

The following are coordinates and charges for the ligands.

1

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CHARGE      0.00 ( 0 )
Formula: H15 C10 N1 O2
ATOM      1  C  LIG      1      57.008  39.654  43.171 -0.306900      ca
ATOM      2  C  LIG      1      56.650  39.865  44.504 -0.215700      ca
ATOM      3  C  LIG      1      55.977  38.875  45.207  0.182300      ca
ATOM      4  C  LIG      1      55.655  37.664  44.573  0.387300      ca
ATOM      5  C  LIG      1      56.010  37.462  43.243 -0.419100      ca
ATOM      6  C  LIG      1      56.690  38.458  42.524  0.136000      ca
ATOM      7  C  LIG      1      57.090  38.221  41.085  0.150400      c3
ATOM      8  N  LIG      1      56.846  39.366  40.181 -0.259200      n3
ATOM      9  C  LIG      1      58.073  39.651  39.431 -0.426800      c3
ATOM     10  C  LIG      1      55.761  39.067  39.242 -0.374400      c3
ATOM     11  O  LIG      1      54.992  36.760  45.370 -0.275700      os
ATOM     12  C  LIG      1      54.522  35.543  44.775 -0.093400      c3
ATOM     13  O  LIG      1      55.633  39.087  46.526 -0.625900      oh
ATOM     14  H  LIG      1      55.930  39.974  46.779  0.450900      ho
ATOM     15  H  LIG      1      57.538  40.426  42.633  0.174900      ha
ATOM     16  H  LIG      1      56.897  40.798  44.988  0.143200      ha
ATOM     17  H  LIG      1      55.760  36.530  42.759  0.155900      ha
ATOM     18  H  LIG      1      58.155  37.991  41.062  0.027200      h1
ATOM     19  H  LIG      1      56.540  37.358  40.709  0.032200      h1
ATOM     20  H  LIG      1      54.847  38.855  39.797  0.153000      h1
ATOM     21  H  LIG      1      55.598  39.925  38.590  0.163600      h1
ATOM     22  H  LIG      1      56.030  38.199  38.640  0.114700      h1
ATOM     23  H  LIG      1      57.903  40.494  38.761  0.174300      h1
ATOM     24  H  LIG      1      58.875  39.896  40.127  0.164500      h1
ATOM     25  H  LIG      1      58.354  38.774  38.847  0.126100      h1
ATOM     26  H  LIG      1      53.984  34.958  45.521  0.112800      h1
ATOM     27  H  LIG      1      55.371  34.968  44.406  0.067100      h1
ATOM     28  H  LIG      1      53.854  35.778  43.946  0.080800      h1
BOND      1  21  10      1      H      C
BOND      2  22  10      1      H      C
BOND      3  23   9      1      H      C
BOND      4  25   9      1      H      C
BOND      5  10  20      1      C      H
BOND      6  10   8      1      C      N
BOND      7   9  24      1      C      H
BOND      8   9   8      1      C      N
BOND      9   8   7      1      N      C
BOND     10  19   7      1      H      C
BOND     11  18   7      1      H      C
BOND     12   7   6      1      C      C
BOND     13   6   1     10      C      C
BOND     14   6   5     10      C      C
BOND     15  15   1      1      H      C
BOND     16  17   5      1      H      C
BOND     17   1   2     10      C      C
BOND     18   5   4     10      C      C
BOND     19  28  12      1      H      C
BOND     20  27  12      1      H      C
BOND     21   2  16      1      C      H
BOND     22   2   3     10      C      C
BOND     23   4   3     10      C      C
BOND     24   4  11      1      C      O
BOND     25  12  11      1      C      O
BOND     26  12  26      1      C      H
BOND     27   3  13      1      C      O
BOND     28  13  14      1      O      H
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2

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CHARGE      0.00 ( 0 )
Formula: H17 C12 N1 O2
ATOM      1  C  LIG      1      53.918  36.627  43.864  0.001300      ca
ATOM      2  C  LIG      1      54.427  37.125  45.064 -0.364100      ca
ATOM      3  C  LIG      1      55.129  38.321  45.077  0.411200      ca
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ATOM	4	C	LIG	1	55.328	39.029	43.879	0.040400	ca
ATOM	5	C	LIG	1	54.818	38.526	42.686	-0.128100	ca
ATOM	6	C	LIG	1	54.102	37.320	42.666	-0.106900	ca
ATOM	7	C	LIG	1	53.540	36.786	41.366	-0.147500	c3
ATOM	8	N	LIG	1	52.104	36.467	41.419	-0.315800	n3
ATOM	9	C	LIG	1	51.528	36.360	40.065	-0.024800	c3
ATOM	10	C	LIG	1	50.011	36.414	40.293	-0.013000	c3
ATOM	11	C	LIG	1	49.854	37.207	41.621	-0.103400	c3
ATOM	12	C	LIG	1	51.294	37.533	42.039	0.068900	c3
ATOM	13	O	LIG	1	56.041	40.195	44.015	-0.390400	os
ATOM	14	C	LIG	1	57.471	40.134	43.918	0.071200	c3
ATOM	15	O	LIG	1	55.632	38.805	46.267	-0.601100	oh
ATOM	16	H	LIG	1	55.917	39.721	46.131	0.427000	ho
ATOM	17	H	LIG	1	53.375	35.694	43.862	0.104200	ha
ATOM	18	H	LIG	1	54.274	36.579	45.983	0.195700	ha
ATOM	19	H	LIG	1	54.975	39.070	41.766	0.170000	ha
ATOM	20	H	LIG	1	54.083	35.877	41.106	0.139800	h1
ATOM	21	H	LIG	1	53.704	37.527	40.584	0.065400	h1
ATOM	22	H	LIG	1	51.815	35.418	39.597	0.056400	h1
ATOM	23	H	LIG	1	51.848	37.201	39.450	0.052900	h1
ATOM	24	H	LIG	1	49.515	36.932	39.472	0.022900	hc
ATOM	25	H	LIG	1	49.609	35.407	40.403	0.028700	hc
ATOM	26	H	LIG	1	49.361	36.598	42.378	0.050800	hc
ATOM	27	H	LIG	1	49.293	38.126	41.449	0.032200	hc
ATOM	28	H	LIG	1	51.593	38.512	41.664	0.053700	h1
ATOM	29	H	LIG	1	51.390	37.498	43.124	0.041400	h1
ATOM	30	H	LIG	1	57.887	41.133	44.047	0.074300	h1
ATOM	31	H	LIG	1	57.752	39.747	42.939	0.048400	h1
ATOM	32	H	LIG	1	57.860	39.476	44.695	0.038500	h1

BOND	1	23	9	1	H	C
BOND	2	24	10	1	H	C
BOND	3	22	9	1	H	C
BOND	4	9	10	1	C	C
BOND	5	9	8	1	C	N
BOND	6	10	25	1	C	H
BOND	7	10	11	1	C	C
BOND	8	21	7	1	H	C
BOND	9	20	7	1	H	C
BOND	10	7	8	1	C	N
BOND	11	7	6	1	C	C
BOND	12	8	12	1	N	C
BOND	13	27	11	1	H	C
BOND	14	11	12	1	C	C
BOND	15	11	26	1	C	H
BOND	16	28	12	1	H	C
BOND	17	19	5	1	H	C
BOND	18	12	29	1	C	H
BOND	19	6	5	10	C	C
BOND	20	6	1	10	C	C
BOND	21	5	4	10	C	C
BOND	22	31	14	1	H	C
BOND	23	17	1	1	H	C
BOND	24	1	2	10	C	C
BOND	25	4	13	1	C	O
BOND	26	4	3	10	C	C
BOND	27	14	13	1	C	O
BOND	28	14	30	1	C	H
BOND	29	14	32	1	C	H
BOND	30	2	3	10	C	C
BOND	31	2	18	1	C	H
BOND	32	3	15	1	C	O
BOND	33	16	15	1	H	O

3

CHARGE 0.00 (0)
Formula: H19 C13 N1 O2

ATOM	1	C	LIG	1	57.479	39.638	43.433	-0.084100	ca
ATOM	2	C	LIG	1	56.936	39.853	44.701	-0.374500	ca

ATOM	3	C	LIG	1	56.162	38.869	45.302	0.291300	ca
ATOM	4	C	LIG	1	55.936	37.655	44.634	0.325500	ca
ATOM	5	C	LIG	1	56.474	37.452	43.366	-0.357300	ca
ATOM	6	C	LIG	1	57.249	38.443	42.747	-0.012000	ca
ATOM	7	C	LIG	1	57.844	38.194	41.376	0.087200	c3
ATOM	8	N	LIG	1	57.641	39.302	40.416	-0.397800	n3
ATOM	9	C	LIG	1	56.313	39.287	39.770	-0.138000	c3
ATOM	10	C	LIG	1	56.114	38.165	38.740	0.105700	c3
ATOM	11	C	LIG	1	57.223	38.195	37.679	0.036200	c3
ATOM	12	C	LIG	1	58.608	38.203	38.341	0.118800	c3
ATOM	13	C	LIG	1	58.700	39.325	39.387	-0.185300	c3
ATOM	14	O	LIG	1	55.170	36.752	45.332	-0.315100	os
ATOM	15	C	LIG	1	54.423	35.776	44.591	0.013900	c3
ATOM	16	O	LIG	1	55.632	39.090	46.556	-0.630700	oh
ATOM	17	H	LIG	1	55.896	39.974	46.848	0.448000	ho
ATOM	18	H	LIG	1	58.085	40.406	42.976	0.123100	ha
ATOM	19	H	LIG	1	57.118	40.785	45.215	0.170600	ha
ATOM	20	H	LIG	1	56.292	36.519	42.853	0.166400	ha
ATOM	21	H	LIG	1	57.386	37.295	40.963	0.055700	h1
ATOM	22	H	LIG	1	58.914	38.020	41.487	0.072700	h1
ATOM	23	H	LIG	1	55.558	39.172	40.548	0.101400	h1
ATOM	24	H	LIG	1	56.157	40.245	39.274	0.098600	h1
ATOM	25	H	LIG	1	56.135	37.203	39.252	-0.002500	hc
ATOM	26	H	LIG	1	55.147	38.292	38.253	-0.029700	hc
ATOM	27	H	LIG	1	57.112	39.093	37.071	0.004300	hc
ATOM	28	H	LIG	1	57.134	37.316	37.041	-0.034600	hc
ATOM	29	H	LIG	1	58.777	37.243	38.829	-0.019300	hc
ATOM	30	H	LIG	1	59.371	38.358	37.578	-0.026300	hc
ATOM	31	H	LIG	1	59.663	39.241	39.890	0.102000	h1
ATOM	32	H	LIG	1	58.661	40.284	38.871	0.105700	h1
ATOM	33	H	LIG	1	53.719	35.276	45.255	0.088400	h1
ATOM	34	H	LIG	1	53.876	36.270	43.788	0.054000	h1
ATOM	35	H	LIG	1	55.107	35.041	44.166	0.037800	h1
BOND	1	28	11	1	H	C			
BOND	2	27	11	1	H	C			
BOND	3	30	12	1	H	C			
BOND	4	11	12	1	C	C			
BOND	5	11	10	1	C	C			
BOND	6	26	10	1	H	C			
BOND	7	12	29	1	C	H			
BOND	8	12	13	1	C	C			
BOND	9	10	25	1	C	H			
BOND	10	10	9	1	C	C			
BOND	11	32	13	1	H	C			
BOND	12	24	9	1	H	C			
BOND	13	13	31	1	C	H			
BOND	14	13	8	1	C	N			
BOND	15	9	8	1	C	N			
BOND	16	9	23	1	C	H			
BOND	17	8	7	1	N	C			
BOND	18	21	7	1	H	C			
BOND	19	7	22	1	C	H			
BOND	20	7	6	1	C	C			
BOND	21	6	5	10	C	C			
BOND	22	6	1	10	C	C			
BOND	23	20	5	1	H	C			
BOND	24	18	1	1	H	C			
BOND	25	5	4	10	C	C			
BOND	26	1	2	10	C	C			
BOND	27	34	15	1	H	C			
BOND	28	35	15	1	H	C			
BOND	29	15	33	1	C	H			
BOND	30	15	14	1	C	O			
BOND	31	4	3	10	C	C			
BOND	32	4	14	1	C	O			
BOND	33	2	19	1	C	H			
BOND	34	2	3	10	C	C			

BOND 35 3 16 1 C O
 BOND 36 16 17 1 O H

4

CHARGE 0.00 (0)
 Formula: H17 C12 N1 O3

ATOM	1	C	LIG	1	57.355	39.561	43.355	-0.094500	ca
ATOM	2	C	LIG	1	56.884	39.797	44.648	-0.345000	ca
ATOM	3	C	LIG	1	56.101	38.846	45.285	0.261200	ca
ATOM	4	C	LIG	1	55.792	37.642	44.632	0.335300	ca
ATOM	5	C	LIG	1	56.266	37.413	43.342	-0.328300	ca
ATOM	6	C	LIG	1	57.048	38.375	42.686	-0.030400	ca
ATOM	7	C	LIG	1	57.549	38.122	41.279	0.071200	c3
ATOM	8	N	LIG	1	57.294	39.250	40.348	-0.370400	n3
ATOM	9	C	LIG	1	55.928	39.246	39.783	-0.136400	c3
ATOM	10	C	LIG	1	55.700	38.172	38.723	0.252900	c3
ATOM	11	O	LIG	1	56.666	38.286	37.660	-0.485100	os
ATOM	12	C	LIG	1	58.007	38.193	38.176	0.267400	c3
ATOM	13	C	LIG	1	58.259	39.267	39.229	-0.190700	c3
ATOM	14	O	LIG	1	55.018	36.775	45.365	-0.282300	os
ATOM	15	C	LIG	1	54.525	35.591	44.720	-0.061700	c3
ATOM	16	O	LIG	1	55.636	39.088	46.562	-0.636300	oh
ATOM	17	H	LIG	1	55.974	39.950	46.851	0.455300	ho
ATOM	18	H	LIG	1	57.965	40.306	42.866	0.125700	ha
ATOM	19	H	LIG	1	57.129	40.720	45.152	0.164000	ha
ATOM	20	H	LIG	1	56.029	36.486	42.842	0.144100	ha
ATOM	21	H	LIG	1	58.624	37.947	41.322	0.075500	h1
ATOM	22	H	LIG	1	57.063	37.228	40.889	0.070300	h1
ATOM	23	H	LIG	1	55.741	40.220	39.330	0.117900	h1
ATOM	24	H	LIG	1	55.215	39.094	40.593	0.094700	h1
ATOM	25	H	LIG	1	55.792	37.189	39.185	0.009500	h1
ATOM	26	H	LIG	1	54.697	38.282	38.310	0.030200	h1
ATOM	27	H	LIG	1	58.149	37.211	38.627	-0.012800	h1
ATOM	28	H	LIG	1	58.716	38.319	37.358	0.034800	h1
ATOM	29	H	LIG	1	58.204	40.242	38.744	0.126800	h1
ATOM	30	H	LIG	1	59.263	39.133	39.632	0.098200	h1
ATOM	31	H	LIG	1	53.886	35.040	45.410	0.107200	h1
ATOM	32	H	LIG	1	55.365	34.963	44.423	0.059900	h1
ATOM	33	H	LIG	1	53.951	35.871	43.837	0.071900	h1
BOND	1	28	12	1	H	C			
BOND	2	11	12	1	O	C			
BOND	3	11	10	1	O	C			
BOND	4	12	27	1	C	H			
BOND	5	12	13	1	C	C			
BOND	6	26	10	1	H	C			
BOND	7	10	25	1	C	H			
BOND	8	10	9	1	C	C			
BOND	9	29	13	1	H	C			
BOND	10	13	30	1	C	H			
BOND	11	13	8	1	C	N			
BOND	12	23	9	1	H	C			
BOND	13	9	8	1	C	N			
BOND	14	9	24	1	C	H			
BOND	15	8	7	1	N	C			
BOND	16	22	7	1	H	C			
BOND	17	7	21	1	C	H			
BOND	18	7	6	1	C	C			
BOND	19	6	5	10	C	C			
BOND	20	6	1	10	C	C			
BOND	21	20	5	1	H	C			
BOND	22	18	1	1	H	C			
BOND	23	5	4	10	C	C			
BOND	24	1	2	10	C	C			
BOND	25	33	15	1	H	C			
BOND	26	32	15	1	H	C			
BOND	27	4	3	10	C	C			
BOND	28	4	14	1	C	O			
BOND	29	2	19	1	C	H			

BOND	30	2	3	10	C	C
BOND	31	15	14	1	C	O
BOND	32	15	31	1	C	H
BOND	33	3	16	1	C	O
BOND	34	16	17	1	O	H

1-HCl

CHARGE 1.00 (1)
 Formula: H16 C10 N1 O2

ATOM	1	C	LIG	1	54.839	37.349	41.675	0.233300	ca
ATOM	2	C	LIG	1	55.023	38.706	42.006	-0.419000	ca
ATOM	3	C	LIG	1	55.143	39.088	43.336	0.313800	ca
ATOM	4	C	LIG	1	55.068	38.115	44.362	0.160600	ca
ATOM	5	C	LIG	1	54.872	36.779	44.035	-0.106900	ca
ATOM	6	C	LIG	1	54.760	36.397	42.696	-0.336900	ca
ATOM	7	C	LIG	1	54.719	36.945	40.234	-0.299100	c3
ATOM	8	N	LIG	1	53.470	37.522	39.551	-0.027000	n4
ATOM	9	C	LIG	1	52.212	36.974	40.163	-0.315100	c3
ATOM	10	H	LIG	1	53.480	38.531	39.729	0.337100	hn
ATOM	11	C	LIG	1	53.483	37.334	38.062	-0.351900	c3
ATOM	12	O	LIG	1	55.323	40.359	43.801	-0.265900	os
ATOM	13	C	LIG	1	55.282	41.439	42.870	-0.133100	c3
ATOM	14	O	LIG	1	55.178	38.494	45.662	-0.483600	oh
ATOM	15	H	LIG	1	55.354	39.453	45.673	0.399300	ho
ATOM	16	H	LIG	1	55.071	39.450	41.225	0.165200	ha
ATOM	17	H	LIG	1	54.806	36.036	44.816	0.189200	ha
ATOM	18	H	LIG	1	54.611	35.357	42.447	0.179600	ha
ATOM	19	H	LIG	1	54.672	35.857	40.181	0.184900	hx
ATOM	20	H	LIG	1	55.604	37.287	39.697	0.175000	hx
ATOM	21	H	LIG	1	54.407	37.742	37.652	0.176700	hx
ATOM	22	H	LIG	1	52.631	37.853	37.623	0.180100	hx
ATOM	23	H	LIG	1	53.420	36.271	37.829	0.191200	hx
ATOM	24	H	LIG	1	52.236	37.127	41.242	0.146700	hx
ATOM	25	H	LIG	1	51.349	37.490	39.742	0.172900	hx
ATOM	26	H	LIG	1	52.138	35.908	39.949	0.191800	hx
ATOM	27	H	LIG	1	55.398	42.383	43.403	0.152700	h1
ATOM	28	H	LIG	1	56.091	41.327	42.149	0.107600	h1
ATOM	29	H	LIG	1	54.326	41.432	42.347	0.080600	h1
BOND	1	22	11	1	H	C			
BOND	2	21	11	1	H	C			
BOND	3	23	11	1	H	C			
BOND	4	11	8	1	C	N			
BOND	5	8	10	1	N	H			
BOND	6	8	9	1	N	C			
BOND	7	8	7	1	N	C			
BOND	8	20	7	1	H	C			
BOND	9	25	9	1	H	C			
BOND	10	26	9	1	H	C			
BOND	11	9	24	1	C	H			
BOND	12	19	7	1	H	C			
BOND	13	7	1	1	C	C			
BOND	14	16	2	1	H	C			
BOND	15	1	2	10	C	C			
BOND	16	1	6	10	C	C			
BOND	17	2	3	10	C	C			
BOND	18	28	13	1	H	C			
BOND	19	29	13	1	H	C			
BOND	20	18	6	1	H	C			
BOND	21	6	5	10	C	C			
BOND	22	13	27	1	C	H			
BOND	23	13	12	1	C	O			
BOND	24	3	12	1	C	O			
BOND	25	3	4	10	C	C			
BOND	26	5	4	10	C	C			
BOND	27	5	17	1	C	H			
BOND	28	4	14	1	C	O			
BOND	29	14	15	1	O	H			

2-HCl

CHARGE 1.00 (1)

Formula: H18 C12 N1 O2

ATOM	1	C	LIG	1	45.156	38.235	36.942	-0.170800	ca
ATOM	2	C	LIG	1	46.381	37.794	37.451	0.165600	ca
ATOM	3	C	LIG	1	47.560	38.013	36.711	-0.337300	ca
ATOM	4	C	LIG	1	47.501	38.677	35.491	0.122300	ca
ATOM	5	C	LIG	1	46.258	39.125	34.988	0.387900	ca
ATOM	6	C	LIG	1	45.095	38.896	35.712	-0.287900	ca
ATOM	7	C	LIG	1	46.452	37.091	38.778	-0.369900	c3
ATOM	8	N	LIG	1	45.323	36.087	38.971	-0.123700	n4
ATOM	9	H	LIG	1	44.443	36.610	38.913	0.346200	hn
ATOM	10	C	LIG	1	45.355	35.382	40.321	-0.026600	c3
ATOM	11	C	LIG	1	44.618	34.042	40.105	-0.107100	c3
ATOM	12	C	LIG	1	44.268	33.993	38.596	-0.008600	c3
ATOM	13	C	LIG	1	45.239	34.975	37.947	0.048000	c3
ATOM	14	O	LIG	1	48.556	38.957	34.670	-0.351200	os
ATOM	15	C	LIG	1	49.417	40.044	35.010	0.067100	c3
ATOM	16	O	LIG	1	46.206	39.767	33.790	-0.524700	oh
ATOM	17	H	LIG	1	46.930	39.416	33.239	0.403100	ho
ATOM	18	H	LIG	1	44.250	38.064	37.504	0.123800	ha
ATOM	19	H	LIG	1	48.509	37.665	37.091	0.223800	ha
ATOM	20	H	LIG	1	44.143	39.229	35.325	0.200700	ha
ATOM	21	H	LIG	1	46.395	37.837	39.571	0.187100	hx
ATOM	22	H	LIG	1	47.406	36.569	38.851	0.190000	hx
ATOM	23	H	LIG	1	46.384	35.204	40.633	0.115000	hx
ATOM	24	H	LIG	1	44.834	35.980	41.069	0.098000	hx
ATOM	25	H	LIG	1	43.710	34.007	40.707	0.077600	hc
ATOM	26	H	LIG	1	45.272	33.209	40.365	0.085600	hc
ATOM	27	H	LIG	1	44.414	32.988	38.199	0.065300	hc
ATOM	28	H	LIG	1	43.240	34.317	38.436	0.044500	hc
ATOM	29	H	LIG	1	44.849	35.343	36.998	0.038200	hx
ATOM	30	H	LIG	1	46.215	34.511	37.805	0.114800	hx
ATOM	31	H	LIG	1	50.203	40.134	34.260	0.088300	h1
ATOM	32	H	LIG	1	49.866	39.860	35.986	0.050100	h1
ATOM	33	H	LIG	1	48.840	40.968	35.044	0.065000	h1
BOND	1	17	16	1	H	O			
BOND	2	16	5	1	O	C			
BOND	3	31	15	1	H	C			
BOND	4	14	15	1	O	C			
BOND	5	14	4	1	O	C			
BOND	6	5	4	10	C	C			
BOND	7	5	6	10	C	C			
BOND	8	15	33	1	C	H			
BOND	9	15	32	1	C	H			
BOND	10	20	6	1	H	C			
BOND	11	4	3	10	C	C			
BOND	12	6	1	10	C	C			
BOND	13	3	19	1	C	H			
BOND	14	3	2	10	C	C			
BOND	15	1	2	10	C	C			
BOND	16	1	18	1	C	H			
BOND	17	29	13	1	H	C			
BOND	18	2	7	1	C	C			
BOND	19	30	13	1	H	C			
BOND	20	13	12	1	C	C			
BOND	21	13	8	1	C	N			
BOND	22	27	12	1	H	C			
BOND	23	28	12	1	H	C			
BOND	24	12	11	1	C	C			
BOND	25	7	22	1	C	H			
BOND	26	7	8	1	C	N			
BOND	27	7	21	1	C	H			
BOND	28	9	8	1	H	N			
BOND	29	8	10	1	N	C			
BOND	30	11	10	1	C	C			

BOND	31	11	26	1	C	H
BOND	32	11	25	1	C	H
BOND	33	10	23	1	C	H
BOND	34	10	24	1	C	H

3-HCl

CHARGE 1.00 (1)

Formula: H2O C13 N1 O2

ATOM	1	C	LIG	1	54.346	37.500	41.936	0.277300	ca
ATOM	2	C	LIG	1	54.669	38.852	42.172	-0.396000	ca
ATOM	3	C	LIG	1	55.098	39.255	43.430	0.298300	ca
ATOM	4	C	LIG	1	55.199	38.312	44.480	0.166100	ca
ATOM	5	C	LIG	1	54.867	36.982	44.249	-0.123600	ca
ATOM	6	C	LIG	1	54.443	36.577	42.980	-0.387900	ca
ATOM	7	C	LIG	1	53.887	37.076	40.569	-0.339200	c3
ATOM	8	N	LIG	1	52.666	37.864	40.079	0.036800	n4
ATOM	9	H	LIG	1	52.980	38.833	39.955	0.297700	hn
ATOM	10	C	LIG	1	51.560	37.870	41.131	-0.021600	c3
ATOM	11	C	LIG	1	50.181	38.148	40.512	-0.024700	c3
ATOM	12	C	LIG	1	50.289	39.073	39.294	-0.043500	c3
ATOM	13	C	LIG	1	51.136	38.410	38.181	-0.049500	c3
ATOM	14	C	LIG	1	52.146	37.397	38.740	-0.116600	c3
ATOM	15	O	LIG	1	55.439	40.524	43.802	-0.250200	os
ATOM	16	C	LIG	1	55.036	41.611	42.968	-0.177300	c3
ATOM	17	O	LIG	1	55.610	38.712	45.712	-0.482900	oh
ATOM	18	H	LIG	1	55.763	39.675	45.669	0.393000	ho
ATOM	19	H	LIG	1	54.583	39.575	41.374	0.140000	ha
ATOM	20	H	LIG	1	54.937	36.261	45.050	0.195500	ha
ATOM	21	H	LIG	1	54.188	35.542	42.805	0.205800	ha
ATOM	22	H	LIG	1	54.705	37.228	39.865	0.170000	hx
ATOM	23	H	LIG	1	53.636	36.016	40.594	0.159400	hx
ATOM	24	H	LIG	1	51.778	38.644	41.867	0.062900	hx
ATOM	25	H	LIG	1	51.538	36.901	41.630	0.085100	hx
ATOM	26	H	LIG	1	49.735	37.203	40.201	0.044500	hc
ATOM	27	H	LIG	1	49.541	38.616	41.260	0.067100	hc
ATOM	28	H	LIG	1	49.290	39.278	38.910	0.063400	hc
ATOM	29	H	LIG	1	50.758	40.010	39.594	0.017900	hc
ATOM	30	H	LIG	1	50.467	37.894	37.492	0.082300	hc
ATOM	31	H	LIG	1	51.675	39.185	37.637	0.046200	hc
ATOM	32	H	LIG	1	52.980	37.298	38.045	0.098300	hx
ATOM	33	H	LIG	1	51.659	36.429	38.859	0.133400	hx
ATOM	34	H	LIG	1	55.268	42.554	43.462	0.159200	h1
ATOM	35	H	LIG	1	53.963	41.550	42.786	0.095900	h1
ATOM	36	H	LIG	1	55.569	41.558	42.019	0.116800	h1
BOND	1	30	13	1	H	C			
BOND	2	31	13	1	H	C			
BOND	3	32	14	1	H	C			
BOND	4	13	14	1	C	C			
BOND	5	13	12	1	C	C			
BOND	6	14	33	1	C	H			
BOND	7	14	8	1	C	N			
BOND	8	28	12	1	H	C			
BOND	9	12	29	1	C	H			
BOND	10	12	11	1	C	C			
BOND	11	22	7	1	H	C			
BOND	12	9	8	1	H	N			
BOND	13	8	7	1	N	C			
BOND	14	8	10	1	N	C			
BOND	15	26	11	1	H	C			
BOND	16	11	10	1	C	C			
BOND	17	11	27	1	C	H			
BOND	18	7	23	1	C	H			
BOND	19	7	1	1	C	C			
BOND	20	10	25	1	C	H			
BOND	21	10	24	1	C	H			
BOND	22	19	2	1	H	C			
BOND	23	1	2	10	C	C			

BOND	24	1	6	10	C	C
BOND	25	36	16	1	H	C
BOND	26	2	3	10	C	C
BOND	27	35	16	1	H	C
BOND	28	21	6	1	H	C
BOND	29	16	34	1	C	H
BOND	30	16	15	1	C	O
BOND	31	6	5	10	C	C
BOND	32	3	15	1	C	O
BOND	33	3	4	10	C	C
BOND	34	5	4	10	C	C
BOND	35	5	20	1	C	H
BOND	36	4	17	1	C	O
BOND	37	18	17	1	H	O

4-HCl

CHARGE 1.00 (1)

Formula: H18 C12 N1 O3

ATOM	1	C	LIG	1	54.305	37.465	41.942	0.218900	ca
ATOM	2	C	LIG	1	54.616	38.822	42.165	-0.349400	ca
ATOM	3	C	LIG	1	55.061	39.235	43.415	0.306800	ca
ATOM	4	C	LIG	1	55.193	38.297	44.467	0.159400	ca
ATOM	5	C	LIG	1	54.874	36.962	44.247	-0.104300	ca
ATOM	6	C	LIG	1	54.433	36.548	42.987	-0.367300	ca
ATOM	7	C	LIG	1	53.834	37.026	40.584	-0.270600	c3
ATOM	8	N	LIG	1	52.666	37.873	40.060	-0.066500	n4
ATOM	9	C	LIG	1	52.153	37.412	38.715	-0.262800	c3
ATOM	10	C	LIG	1	50.978	38.283	38.279	0.216900	c3
ATOM	11	O	LIG	1	49.936	38.265	39.244	-0.439800	os
ATOM	12	C	LIG	1	50.387	38.779	40.488	0.217500	c3
ATOM	13	C	LIG	1	51.529	37.941	41.056	-0.170800	c3
ATOM	14	H	LIG	1	53.030	38.828	39.939	0.344100	hn
ATOM	15	O	LIG	1	55.395	40.509	43.776	-0.272200	os
ATOM	16	C	LIG	1	55.030	41.583	42.907	-0.124500	c3
ATOM	17	O	LIG	1	55.621	38.708	45.688	-0.484000	oh
ATOM	18	H	LIG	1	55.679	39.681	45.665	0.397400	ho
ATOM	19	H	LIG	1	54.508	39.540	41.365	0.125000	ha
ATOM	20	H	LIG	1	54.967	36.245	45.049	0.190800	ha
ATOM	21	H	LIG	1	54.189	35.509	42.820	0.196700	ha
ATOM	22	H	LIG	1	54.665	37.107	39.884	0.169600	hx
ATOM	23	H	LIG	1	53.518	35.984	40.639	0.165000	hx
ATOM	24	H	LIG	1	51.825	36.375	38.790	0.196100	hx
ATOM	25	H	LIG	1	52.952	37.487	37.978	0.137300	hx
ATOM	26	H	LIG	1	51.325	39.308	38.150	0.031800	h1
ATOM	27	H	LIG	1	50.592	37.914	37.329	0.112600	h1
ATOM	28	H	LIG	1	50.736	39.802	40.344	0.026600	h1
ATOM	29	H	LIG	1	49.558	38.780	41.196	0.109100	h1
ATOM	30	H	LIG	1	51.169	36.933	41.262	0.175800	hx
ATOM	31	H	LIG	1	51.885	38.394	41.981	0.083400	hx
ATOM	32	H	LIG	1	55.272	42.534	43.382	0.150800	h1
ATOM	33	H	LIG	1	53.959	41.540	42.706	0.077700	h1
ATOM	34	H	LIG	1	55.579	41.495	41.970	0.102700	h1
BOND	1	27	10	1	H	C			
BOND	2	25	9	1	H	C			
BOND	3	26	10	1	H	C			
BOND	4	10	9	1	C	C			
BOND	5	10	11	1	C	O			
BOND	6	9	24	1	C	H			
BOND	7	9	8	1	C	N			
BOND	8	11	12	1	O	C			
BOND	9	22	7	1	H	C			
BOND	10	14	8	1	H	N			
BOND	11	8	7	1	N	C			
BOND	12	8	13	1	N	C			
BOND	13	28	12	1	H	C			
BOND	14	12	13	1	C	C			
BOND	15	12	29	1	C	H			

BOND	16	7	23	1	C	H
BOND	17	7	1	1	C	C
BOND	18	13	30	1	C	H
BOND	19	13	31	1	C	H
BOND	20	19	2	1	H	C
BOND	21	1	2	10	C	C
BOND	22	1	6	10	C	C
BOND	23	34	16	1	H	C
BOND	24	2	3	10	C	C
BOND	25	33	16	1	H	C
BOND	26	21	6	1	H	C
BOND	27	16	32	1	C	H
BOND	28	16	15	1	C	O
BOND	29	6	5	10	C	C
BOND	30	3	15	1	C	O
BOND	31	3	4	10	C	C
BOND	32	5	4	10	C	C
BOND	33	5	20	1	C	H
BOND	34	4	17	1	C	O
BOND	35	18	17	1	H	O

The gaff¹ force field was used for each of the ligands. Modifications to that force field for the non-standard residue are shown below.

```
BOND
CT-c3  303.10  1.535      same as c3-c3
```

```
ANGLE
N -CT-c3  65.900      112.130  same as c3-c3-n
CT-c3-os  67.800      108.420  same as c3-c3-os
CT-c3-h1  46.400      110.070  same as c3-c3-h1
C -CT-c3  63.800      110.530  same as c -c3-c3
c3-CT-H1  46.400      110.050  same as c3-c3-hc
```

```
DIHE
N -CT-c3-os  1  0.156      0.000      3.000      same as X -c3-c3-X
N -CT-c3-h1  1  0.156      0.000      3.000      same as X -c3-c3-X
C -CT-c3-os  1  0.156      0.000      3.000      same as X -c3-c3-X
C -CT-c3-h1  1  0.156      0.000      3.000      same as X -c3-c3-X
O -C -CT-c3  1  0.000      180.000     2.000      same as X -c -c3-X
c3-CT-N -H   1  0.000      0.000      2.000      same as X -c3-n -X
os-c3-CT-H1  1  0.156      0.000      3.000      same as X -c3-c3-X
H1-CT-c3-h1  1  0.156      0.000      3.000      same as X -c3-c3-X
```

```
!!index array str
```

```
"XA1"
```

```
!entry.XA1.unit.atoms table str name str type int typex int resx int flags
```

```
int seq int elmnt dbl chg
"N" "N" 0 1 131072 1 7 -0.731900
"CA" "CT" 0 1 131072 2 6 0.291000
"C" "C" 0 1 131072 3 6 0.474400
"O" "O" 0 1 131072 4 8 -0.549900
"CB" "c3" 0 1 131072 5 6 0.367200
"OG" "os" 0 1 131072 6 8 -0.672200
"P1" "p5" 0 1 131072 7 15 1.419700
"O1" "o" 0 1 131072 8 8 -0.921300
"O2" "o" 0 1 131072 9 8 -0.889700
"C1" "c3" 0 1 131072 10 6 -0.478900
"H" "H" 0 1 131072 11 1 0.411300
"HA" "H1" 0 1 131072 12 1 0.010900
"HB2" "h1" 0 1 131072 13 1 0.006400
"HB3" "h1" 0 1 131072 14 1 -0.014300
"H11" "hc" 0 1 131072 15 1 0.109600
"H12" "hc" 0 1 131072 16 1 0.075700
```

¹ Wang, J.; Wolf, R.M.; Caldwell, J.W.; Kollman, P.A.; Case, D.A. "Development and testing of a general amber force field". *J. Comp. Chem.* **2004**, *25*, 1157-1174.

```

"H13" "hc" 0 1 131072 17 1 0.092000
!entry.XA1.unit.atomsptinfo table  str pname  str ptype  int ptypex  int
pelmnt  dbl pchg
"N" "N" 0 -1 0.0
"CA" "CT" 0 -1 0.0
"C" "C" 0 -1 0.0
"O" "O" 0 -1 0.0
"CB" "c3" 0 -1 0.0
"OG" "os" 0 -1 0.0
"P1" "p5" 0 -1 0.0
"O1" "o" 0 -1 0.0
"O2" "o" 0 -1 0.0
"C1" "c3" 0 -1 0.0
"H" "H" 0 -1 0.0
"HA" "H1" 0 -1 0.0
"HB2" "h1" 0 -1 0.0
"HB3" "h1" 0 -1 0.0
"H11" "hc" 0 -1 0.0
"H12" "hc" 0 -1 0.0
"H13" "hc" 0 -1 0.0
!entry.XA1.unit.boundbox array dbl
-1.000000
0.0
0.0
0.0
0.0
!entry.XA1.unit.childsequence single int
2
!entry.XA1.unit.connect array int
1
3
!entry.XA1.unit.connectivity table  int atom1x  int atom2x  int flags
1 11 1
1 2 1
2 12 1
2 3 1
2 5 1
3 4 2
5 14 1
5 13 1
5 6 1
6 7 1
7 10 1
7 9 1
7 8 1
10 17 1
10 16 1
10 15 1
!entry.XA1.unit.hierarchy table  str abovetype  int abovex  str belowtype  int
belowx
"U" 0 "R" 1
"R" 1 "A" 1
"R" 1 "A" 2
"R" 1 "A" 3
"R" 1 "A" 4
"R" 1 "A" 5
"R" 1 "A" 6
"R" 1 "A" 7
"R" 1 "A" 8
"R" 1 "A" 9
"R" 1 "A" 10
"R" 1 "A" 11
"R" 1 "A" 12
"R" 1 "A" 13
"R" 1 "A" 14
"R" 1 "A" 15
"R" 1 "A" 16

```

```

"R" 1 "A" 17
!entry.XA1.unit.name single str
"VXA"
!entry.XA1.unit.positions table  db l x   db l y   db l z
137.519000 122.824000 41.109000
138.352000 121.644000 41.212000
139.518000 121.716000 40.251000
140.322000 122.639000 40.295000
137.517000 120.396000 40.929000
138.062000 119.273000 41.592000
138.099000 117.896000 40.786000
138.474000 118.187000 39.237000
136.762000 117.229000 40.911000
139.411000 117.022000 41.542000
138.074600 123.646300 41.296700
138.741300 121.579800 42.228100
136.498000 120.559500 41.279800
137.502400 120.208300 39.855400
139.526000 116.050700 41.060900
140.334700 117.591000 41.436500
139.190700 116.879700 42.600000
!entry.XA1.unit.residueconnect table  int c1x   int c2x   int c3x   int c4x   int
c5x   int c6x
0 0 0 0 0 0
!entry.XA1.unit.residues table  str name   int seq   int childseq   int startatomx
str restype   int imagingx
"VXA1" 1 18 1 "?" 0
!entry.XA1.unit.residuesPdbSequenceNumber array int
0
!entry.XA1.unit.solventcap array db l
-1.000000
0.0
0.0
0.0
0.0
!entry.XA1.unit.velocities table  db l x   db l y   db l z
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
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0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0
0.0 0.0 0.0

```

The following are coordinates at the conclusion of one of the MD simulations with Frame 0000 for each of our ligands.

1

CRYST1	84.275	84.275	84.275	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	49.960	77.224	29.499	0.00	0.00
ATOM	2	H1	ASP	X	1	49.499	77.628	30.301	0.00	0.00
ATOM	3	H2	ASP	X	1	50.840	77.696	29.348	0.00	0.00
ATOM	4	H3	ASP	X	1	50.108	76.251	29.728	0.00	0.00
ATOM	5	CA	ASP	X	1	49.107	77.270	28.299	0.00	0.00
ATOM	6	HA	ASP	X	1	48.877	78.336	28.286	0.00	0.00
ATOM	7	CB	ASP	X	1	49.756	76.902	27.026	0.00	0.00
ATOM	8	HB2	ASP	X	1	50.504	77.649	26.758	0.00	0.00
ATOM	9	HB3	ASP	X	1	50.117	75.889	27.205	0.00	0.00
ATOM	10	CG	ASP	X	1	48.784	76.918	25.867	0.00	0.00
ATOM	11	OD1	ASP	X	1	47.880	76.042	25.681	0.00	0.00
ATOM	12	OD2	ASP	X	1	48.808	77.890	25.112	0.00	0.00
ATOM	13	C	ASP	X	1	47.819	76.442	28.627	0.00	0.00
ATOM	14	O	ASP	X	1	47.908	75.410	29.254	0.00	0.00
ATOM	15	N	ALA	X	2	46.636	76.883	28.153	0.00	0.00
ATOM	16	H	ALA	X	2	46.644	77.799	27.726	0.00	0.00
ATOM	17	CA	ALA	X	2	45.405	76.252	28.614	0.00	0.00
ATOM	18	HA	ALA	X	2	45.346	76.207	29.701	0.00	0.00
ATOM	19	CB	ALA	X	2	44.302	77.211	28.204	0.00	0.00
ATOM	20	HB1	ALA	X	2	43.331	76.846	28.537	0.00	0.00
ATOM	21	HB2	ALA	X	2	44.555	78.119	28.752	0.00	0.00
ATOM	22	HB3	ALA	X	2	44.184	77.292	27.123	0.00	0.00
ATOM	23	C	ALA	X	2	45.032	74.893	28.120	0.00	0.00
ATOM	24	O	ALA	X	2	44.136	74.209	28.626	0.00	0.00
ATOM	25	N	GLU	X	3	45.825	74.437	27.197	0.00	0.00
ATOM	26	H	GLU	X	3	46.548	75.063	26.872	0.00	0.00
ATOM	27	CA	GLU	X	3	45.644	73.152	26.588	0.00	0.00
ATOM	28	HA	GLU	X	3	44.595	72.863	26.531	0.00	0.00
ATOM	29	CB	GLU	X	3	46.283	73.080	25.224	0.00	0.00
ATOM	30	HB2	GLU	X	3	46.153	74.054	24.752	0.00	0.00
ATOM	31	HB3	GLU	X	3	47.348	72.913	25.383	0.00	0.00
ATOM	32	CG	GLU	X	3	45.603	72.092	24.294	0.00	0.00
ATOM	33	HG2	GLU	X	3	46.304	71.860	23.492	0.00	0.00
ATOM	34	HG3	GLU	X	3	45.337	71.139	24.751	0.00	0.00
ATOM	35	CD	GLU	X	3	44.301	72.607	23.634	0.00	0.00
ATOM	36	OE1	GLU	X	3	44.435	73.234	22.530	0.00	0.00
ATOM	37	OE2	GLU	X	3	43.207	72.381	24.237	0.00	0.00
ATOM	38	C	GLU	X	3	46.219	72.071	27.548	0.00	0.00
ATOM	39	O	GLU	X	3	45.752	70.924	27.488	0.00	0.00
ATOM	40	N	LEU	X	4	47.119	72.467	28.515	0.00	0.00
ATOM	41	H	LEU	X	4	47.346	73.449	28.577	0.00	0.00
ATOM	42	CA	LEU	X	4	47.480	71.503	29.523	0.00	0.00
ATOM	43	HA	LEU	X	4	47.072	70.533	29.241	0.00	0.00
ATOM	44	CB	LEU	X	4	49.033	71.532	29.666	0.00	0.00
ATOM	45	HB2	LEU	X	4	49.407	72.525	29.914	0.00	0.00
ATOM	46	HB3	LEU	X	4	49.400	70.879	30.458	0.00	0.00
ATOM	47	CG	LEU	X	4	49.860	71.160	28.390	0.00	0.00
ATOM	48	HG	LEU	X	4	49.851	72.004	27.701	0.00	0.00
ATOM	49	CD1	LEU	X	4	51.375	71.029	28.721	0.00	0.00
ATOM	50	HD11	LEU	X	4	51.855	70.368	28.000	0.00	0.00
ATOM	51	HD12	LEU	X	4	51.883	71.993	28.765	0.00	0.00
ATOM	52	HD13	LEU	X	4	51.529	70.551	29.688	0.00	0.00
ATOM	53	CD2	LEU	X	4	49.530	69.788	27.759	0.00	0.00
ATOM	54	HD21	LEU	X	4	48.457	69.741	27.575	0.00	0.00
ATOM	55	HD22	LEU	X	4	49.977	69.683	26.770	0.00	0.00
ATOM	56	HD23	LEU	X	4	49.842	68.963	28.398	0.00	0.00
ATOM	57	C	LEU	X	4	46.781	71.817	30.887	0.00	0.00
ATOM	58	O	LEU	X	4	47.315	71.573	31.925	0.00	0.00
ATOM	59	N	LEU	X	5	45.470	72.285	30.844	0.00	0.00
ATOM	60	H	LEU	X	5	45.122	72.602	29.951	0.00	0.00
ATOM	61	CA	LEU	X	5	44.622	72.710	32.046	0.00	0.00
ATOM	62	HA	LEU	X	5	45.135	72.466	32.977	0.00	0.00
ATOM	63	CB	LEU	X	5	44.534	74.211	32.041	0.00	0.00
ATOM	64	HB2	LEU	X	5	45.481	74.750	32.065	0.00	0.00
ATOM	65	HB3	LEU	X	5	43.973	74.425	31.131	0.00	0.00
ATOM	66	CG	LEU	X	5	43.637	74.894	33.093	0.00	0.00
ATOM	67	HG	LEU	X	5	42.754	74.275	33.252	0.00	0.00
ATOM	68	CD1	LEU	X	5	44.439	74.784	34.398	0.00	0.00

ATOM	69	HD11	LEU	X	5	45.336	75.397	34.312	0.00	0.00
ATOM	70	HD12	LEU	X	5	43.932	75.142	35.294	0.00	0.00
ATOM	71	HD13	LEU	X	5	44.735	73.752	34.586	0.00	0.00
ATOM	72	CD2	LEU	X	5	43.380	76.404	32.873	0.00	0.00
ATOM	73	HD21	LEU	X	5	44.314	76.966	32.855	0.00	0.00
ATOM	74	HD22	LEU	X	5	42.700	76.549	32.034	0.00	0.00
ATOM	75	HD23	LEU	X	5	42.802	76.815	33.701	0.00	0.00
ATOM	76	C	LEU	X	5	43.318	71.968	31.902	0.00	0.00
ATOM	77	O	LEU	X	5	42.528	72.288	31.043	0.00	0.00
ATOM	78	N	VAL	X	6	42.982	71.056	32.815	0.00	0.00
ATOM	79	H	VAL	X	6	43.602	70.960	33.606	0.00	0.00
ATOM	80	CA	VAL	X	6	41.602	70.367	32.851	0.00	0.00
ATOM	81	HA	VAL	X	6	40.944	70.823	32.110	0.00	0.00
ATOM	82	CB	VAL	X	6	41.652	68.861	32.285	0.00	0.00
ATOM	83	HB	VAL	X	6	42.132	68.969	31.313	0.00	0.00
ATOM	84	CG1	VAL	X	6	42.421	68.058	33.314	0.00	0.00
ATOM	85	HG11	VAL	X	6	42.594	67.006	33.087	0.00	0.00
ATOM	86	HG12	VAL	X	6	43.421	68.480	33.420	0.00	0.00
ATOM	87	HG13	VAL	X	6	41.940	68.055	34.292	0.00	0.00
ATOM	88	CG2	VAL	X	6	40.322	68.256	31.957	0.00	0.00
ATOM	89	HG21	VAL	X	6	39.712	68.793	31.231	0.00	0.00
ATOM	90	HG22	VAL	X	6	40.354	67.247	31.545	0.00	0.00
ATOM	91	HG23	VAL	X	6	39.704	68.270	32.854	0.00	0.00
ATOM	92	C	VAL	X	6	40.954	70.547	34.237	0.00	0.00
ATOM	93	O	VAL	X	6	41.607	70.864	35.225	0.00	0.00
ATOM	94	N	THR	X	7	39.617	70.483	34.372	0.00	0.00
ATOM	95	H	THR	X	7	39.063	70.472	33.528	0.00	0.00
ATOM	96	CA	THR	X	7	38.842	70.811	35.570	0.00	0.00
ATOM	97	HA	THR	X	7	39.413	70.882	36.495	0.00	0.00
ATOM	98	CB	THR	X	7	37.889	72.026	35.267	0.00	0.00
ATOM	99	HB	THR	X	7	37.139	71.685	34.554	0.00	0.00
ATOM	100	CG2	THR	X	7	37.095	72.341	36.531	0.00	0.00
ATOM	101	HG21	THR	X	7	37.722	72.313	37.422	0.00	0.00
ATOM	102	HG22	THR	X	7	36.638	73.329	36.571	0.00	0.00
ATOM	103	HG23	THR	X	7	36.316	71.580	36.573	0.00	0.00
ATOM	104	OG1	THR	X	7	38.604	73.275	34.787	0.00	0.00
ATOM	105	HG1	THR	X	7	37.976	73.976	34.596	0.00	0.00
ATOM	106	C	THR	X	7	37.855	69.686	35.943	0.00	0.00
ATOM	107	O	THR	X	7	37.239	69.074	35.057	0.00	0.00
ATOM	108	N	VAL	X	8	37.787	69.430	37.244	0.00	0.00
ATOM	109	H	VAL	X	8	38.324	70.046	37.838	0.00	0.00
ATOM	110	CA	VAL	X	8	37.030	68.326	37.912	0.00	0.00
ATOM	111	HA	VAL	X	8	36.366	67.907	37.156	0.00	0.00
ATOM	112	CB	VAL	X	8	37.952	67.139	38.328	0.00	0.00
ATOM	113	HB	VAL	X	8	37.301	66.417	38.821	0.00	0.00
ATOM	114	CG1	VAL	X	8	38.654	66.528	37.027	0.00	0.00
ATOM	115	HG11	VAL	X	8	39.090	65.555	37.250	0.00	0.00
ATOM	116	HG12	VAL	X	8	37.893	66.393	36.258	0.00	0.00
ATOM	117	HG13	VAL	X	8	39.322	67.303	36.650	0.00	0.00
ATOM	118	CG2	VAL	X	8	38.955	67.587	39.418	0.00	0.00
ATOM	119	HG21	VAL	X	8	38.402	68.166	40.159	0.00	0.00
ATOM	120	HG22	VAL	X	8	39.376	66.728	39.940	0.00	0.00
ATOM	121	HG23	VAL	X	8	39.720	68.256	39.026	0.00	0.00
ATOM	122	C	VAL	X	8	36.246	68.858	39.085	0.00	0.00
ATOM	123	O	VAL	X	8	36.435	70.022	39.495	0.00	0.00
ATOM	124	N	ARG	X	9	35.453	67.996	39.786	0.00	0.00
ATOM	125	H	ARG	X	9	35.337	67.017	39.564	0.00	0.00
ATOM	126	CA	ARG	X	9	34.522	68.267	40.868	0.00	0.00
ATOM	127	HA	ARG	X	9	33.779	68.897	40.377	0.00	0.00
ATOM	128	CB	ARG	X	9	33.865	66.947	41.259	0.00	0.00
ATOM	129	HB2	ARG	X	9	33.779	66.408	40.315	0.00	0.00
ATOM	130	HB3	ARG	X	9	34.621	66.524	41.920	0.00	0.00
ATOM	131	CG	ARG	X	9	32.507	66.952	41.947	0.00	0.00
ATOM	132	HG2	ARG	X	9	32.315	66.096	42.594	0.00	0.00
ATOM	133	HG3	ARG	X	9	32.502	67.782	42.653	0.00	0.00
ATOM	134	CD	ARG	X	9	31.362	67.138	40.876	0.00	0.00
ATOM	135	HD2	ARG	X	9	31.305	68.159	40.498	0.00	0.00
ATOM	136	HD3	ARG	X	9	31.632	66.430	40.092	0.00	0.00
ATOM	137	NE	ARG	X	9	30.048	66.681	41.278	0.00	0.00
ATOM	138	HE	ARG	X	9	29.630	66.056	40.604	0.00	0.00

ATOM	139	CZ	ARG	X	9	29.333	67.163	42.296	0.00	0.00
ATOM	140	NH1	ARG	X	9	29.755	68.210	42.967	0.00	0.00
ATOM	141	HH11	ARG	X	9	30.445	68.825	42.558	0.00	0.00
ATOM	142	HH12	ARG	X	9	29.180	68.571	43.714	0.00	0.00
ATOM	143	NH2	ARG	X	9	28.236	66.506	42.700	0.00	0.00
ATOM	144	HH21	ARG	X	9	27.945	65.613	42.329	0.00	0.00
ATOM	145	HH22	ARG	X	9	27.821	66.901	43.531	0.00	0.00
ATOM	146	C	ARG	X	9	35.129	68.996	42.035	0.00	0.00
ATOM	147	O	ARG	X	9	34.552	69.936	42.558	0.00	0.00
ATOM	148	N	GLY	X	10	36.378	68.644	42.376	0.00	0.00
ATOM	149	H	GLY	X	10	36.774	67.835	41.919	0.00	0.00
ATOM	150	CA	GLY	X	10	37.278	69.285	43.362	0.00	0.00
ATOM	151	HA2	GLY	X	10	36.740	69.470	44.280	0.00	0.00
ATOM	152	HA3	GLY	X	10	38.116	68.661	43.597	0.00	0.00
ATOM	153	C	GLY	X	10	37.885	70.612	42.857	0.00	0.00
ATOM	154	O	GLY	X	10	38.117	71.522	43.660	0.00	0.00
ATOM	155	N	GLY	X	11	38.131	70.822	41.544	0.00	0.00
ATOM	156	H	GLY	X	11	37.954	70.123	40.836	0.00	0.00
ATOM	157	CA	GLY	X	11	38.857	72.005	41.021	0.00	0.00
ATOM	158	HA2	GLY	X	11	38.235	72.924	40.962	0.00	0.00
ATOM	159	HA3	GLY	X	11	39.623	72.251	41.790	0.00	0.00
ATOM	160	C	GLY	X	11	39.629	71.767	39.712	0.00	0.00
ATOM	161	O	GLY	X	11	39.477	70.809	38.955	0.00	0.00
ATOM	162	N	ARG	X	12	40.498	72.727	39.486	0.00	0.00
ATOM	163	H	ARG	X	12	40.540	73.495	40.140	0.00	0.00
ATOM	164	CA	ARG	X	12	41.461	72.655	38.344	0.00	0.00
ATOM	165	HA	ARG	X	12	40.941	72.305	37.452	0.00	0.00
ATOM	166	CB	ARG	X	12	41.904	74.097	38.119	0.00	0.00
ATOM	167	HB2	ARG	X	12	42.090	74.680	39.021	0.00	0.00
ATOM	168	HB3	ARG	X	12	42.784	74.190	37.482	0.00	0.00
ATOM	169	CG	ARG	X	12	40.814	74.790	37.350	0.00	0.00
ATOM	170	HG2	ARG	X	12	40.586	74.210	36.455	0.00	0.00
ATOM	171	HG3	ARG	X	12	39.875	74.848	37.900	0.00	0.00
ATOM	172	CD	ARG	X	12	41.171	76.220	37.013	0.00	0.00
ATOM	173	HD2	ARG	X	12	41.408	76.760	37.930	0.00	0.00
ATOM	174	HD3	ARG	X	12	42.158	76.216	36.551	0.00	0.00
ATOM	175	NE	ARG	X	12	40.153	76.858	36.229	0.00	0.00
ATOM	176	HE	ARG	X	12	39.735	76.303	35.496	0.00	0.00
ATOM	177	CZ	ARG	X	12	39.638	78.080	36.218	0.00	0.00
ATOM	178	NH1	ARG	X	12	39.915	79.013	37.081	0.00	0.00
ATOM	179	HH11	ARG	X	12	40.486	78.915	37.908	0.00	0.00
ATOM	180	HH12	ARG	X	12	39.545	79.942	36.941	0.00	0.00
ATOM	181	NH2	ARG	X	12	38.884	78.314	35.212	0.00	0.00
ATOM	182	HH21	ARG	X	12	38.781	77.732	34.393	0.00	0.00
ATOM	183	HH22	ARG	X	12	38.557	79.262	35.086	0.00	0.00
ATOM	184	C	ARG	X	12	42.602	71.647	38.563	0.00	0.00
ATOM	185	O	ARG	X	12	43.090	71.476	39.707	0.00	0.00
ATOM	186	N	LEU	X	13	43.170	71.200	37.441	0.00	0.00
ATOM	187	H	LEU	X	13	42.687	71.517	36.613	0.00	0.00
ATOM	188	CA	LEU	X	13	44.312	70.233	37.285	0.00	0.00
ATOM	189	HA	LEU	X	13	44.832	70.251	38.242	0.00	0.00
ATOM	190	CB	LEU	X	13	43.790	68.851	36.937	0.00	0.00
ATOM	191	HB2	LEU	X	13	43.396	68.783	35.923	0.00	0.00
ATOM	192	HB3	LEU	X	13	44.620	68.144	36.933	0.00	0.00
ATOM	193	CG	LEU	X	13	42.891	68.148	38.043	0.00	0.00
ATOM	194	HG	LEU	X	13	42.130	68.839	38.405	0.00	0.00
ATOM	195	CD1	LEU	X	13	42.284	66.863	37.535	0.00	0.00
ATOM	196	HD11	LEU	X	13	41.385	66.573	38.078	0.00	0.00
ATOM	197	HD12	LEU	X	13	41.853	67.099	36.563	0.00	0.00
ATOM	198	HD13	LEU	X	13	43.067	66.114	37.414	0.00	0.00
ATOM	199	CD2	LEU	X	13	43.737	67.802	39.323	0.00	0.00
ATOM	200	HD21	LEU	X	13	43.039	67.580	40.131	0.00	0.00
ATOM	201	HD22	LEU	X	13	44.476	67.029	39.114	0.00	0.00
ATOM	202	HD23	LEU	X	13	44.247	68.706	39.654	0.00	0.00
ATOM	203	C	LEU	X	13	45.214	70.751	36.121	0.00	0.00
ATOM	204	O	LEU	X	13	44.704	71.168	35.124	0.00	0.00
ATOM	205	N	ARG	X	14	46.520	70.701	36.302	0.00	0.00
ATOM	206	H	ARG	X	14	46.832	70.235	37.142	0.00	0.00
ATOM	207	CA	ARG	X	14	47.583	70.984	35.302	0.00	0.00
ATOM	208	HA	ARG	X	14	47.099	71.278	34.372	0.00	0.00

ATOM	209	CB	ARG	X	14	48.539	72.048	35.830	0.00	0.00
ATOM	210	HB2	ARG	X	14	48.023	72.917	36.238	0.00	0.00
ATOM	211	HB3	ARG	X	14	49.072	71.671	36.703	0.00	0.00
ATOM	212	CG	ARG	X	14	49.666	72.452	34.854	0.00	0.00
ATOM	213	HG2	ARG	X	14	50.096	71.510	34.514	0.00	0.00
ATOM	214	HG3	ARG	X	14	49.235	73.024	34.032	0.00	0.00
ATOM	215	CD	ARG	X	14	50.797	73.258	35.462	0.00	0.00
ATOM	216	HD2	ARG	X	14	51.446	72.707	36.143	0.00	0.00
ATOM	217	HD3	ARG	X	14	51.333	73.545	34.558	0.00	0.00
ATOM	218	NE	ARG	X	14	50.277	74.542	36.018	0.00	0.00
ATOM	219	HE	ARG	X	14	50.136	75.248	35.311	0.00	0.00
ATOM	220	CZ	ARG	X	14	50.198	74.992	37.271	0.00	0.00
ATOM	221	NH1	ARG	X	14	50.623	74.245	38.205	0.00	0.00
ATOM	222	HH11	ARG	X	14	50.982	73.310	38.070	0.00	0.00
ATOM	223	HH12	ARG	X	14	50.572	74.568	39.160	0.00	0.00
ATOM	224	NH2	ARG	X	14	49.820	76.209	37.562	0.00	0.00
ATOM	225	HH21	ARG	X	14	49.537	76.752	36.759	0.00	0.00
ATOM	226	HH22	ARG	X	14	50.075	76.646	38.435	0.00	0.00
ATOM	227	C	ARG	X	14	48.277	69.695	35.059	0.00	0.00
ATOM	228	O	ARG	X	14	48.889	69.073	35.947	0.00	0.00
ATOM	229	N	GLY	X	15	48.346	69.299	33.776	0.00	0.00
ATOM	230	H	GLY	X	15	48.097	70.014	33.108	0.00	0.00
ATOM	231	CA	GLY	X	15	49.123	68.097	33.382	0.00	0.00
ATOM	232	HA2	GLY	X	15	49.438	67.517	34.265	0.00	0.00
ATOM	233	HA3	GLY	X	15	48.533	67.369	32.857	0.00	0.00
ATOM	234	C	GLY	X	15	50.388	68.212	32.538	0.00	0.00
ATOM	235	O	GLY	X	15	51.078	69.227	32.649	0.00	0.00
ATOM	236	N	ILE	X	16	50.688	67.208	31.718	0.00	0.00
ATOM	237	H	ILE	X	16	50.040	66.452	31.552	0.00	0.00
ATOM	238	CA	ILE	X	16	51.894	67.124	30.788	0.00	0.00
ATOM	239	HA	ILE	X	16	52.247	68.150	30.686	0.00	0.00
ATOM	240	CB	ILE	X	16	52.975	66.350	31.509	0.00	0.00
ATOM	241	HB	ILE	X	16	53.815	66.250	30.822	0.00	0.00
ATOM	242	CG2	ILE	X	16	53.510	66.979	32.851	0.00	0.00
ATOM	243	HG21	ILE	X	16	52.770	66.847	33.641	0.00	0.00
ATOM	244	HG22	ILE	X	16	54.452	66.478	33.072	0.00	0.00
ATOM	245	HG23	ILE	X	16	53.705	68.036	32.674	0.00	0.00
ATOM	246	CG1	ILE	X	16	52.512	64.924	31.869	0.00	0.00
ATOM	247	HG12	ILE	X	16	51.780	64.980	32.675	0.00	0.00
ATOM	248	HG13	ILE	X	16	52.109	64.423	30.989	0.00	0.00
ATOM	249	CD1	ILE	X	16	53.592	64.006	32.437	0.00	0.00
ATOM	250	HD11	ILE	X	16	54.507	64.412	32.006	0.00	0.00
ATOM	251	HD12	ILE	X	16	53.679	64.279	33.489	0.00	0.00
ATOM	252	HD13	ILE	X	16	53.454	62.933	32.298	0.00	0.00
ATOM	253	C	ILE	X	16	51.566	66.615	29.397	0.00	0.00
ATOM	254	O	ILE	X	16	50.617	65.866	29.193	0.00	0.00
ATOM	255	N	ARG	X	17	52.440	66.937	28.359	0.00	0.00
ATOM	256	H	ARG	X	17	53.142	67.648	28.511	0.00	0.00
ATOM	257	CA	ARG	X	17	52.341	66.401	26.998	0.00	0.00
ATOM	258	HA	ARG	X	17	51.393	65.884	26.843	0.00	0.00
ATOM	259	CB	ARG	X	17	52.423	67.526	25.923	0.00	0.00
ATOM	260	HB2	ARG	X	17	51.484	68.071	26.020	0.00	0.00
ATOM	261	HB3	ARG	X	17	53.312	68.137	26.080	0.00	0.00
ATOM	262	CG	ARG	X	17	52.382	67.170	24.443	0.00	0.00
ATOM	263	HG2	ARG	X	17	53.008	66.319	24.173	0.00	0.00
ATOM	264	HG3	ARG	X	17	51.359	66.837	24.268	0.00	0.00
ATOM	265	CD	ARG	X	17	52.763	68.384	23.625	0.00	0.00
ATOM	266	HD2	ARG	X	17	52.527	68.098	22.600	0.00	0.00
ATOM	267	HD3	ARG	X	17	52.267	69.269	24.022	0.00	0.00
ATOM	268	NE	ARG	X	17	54.224	68.599	23.580	0.00	0.00
ATOM	269	HE	ARG	X	17	54.769	68.228	24.346	0.00	0.00
ATOM	270	CZ	ARG	X	17	54.929	69.329	22.782	0.00	0.00
ATOM	271	NH1	ARG	X	17	54.373	69.800	21.693	0.00	0.00
ATOM	272	HH11	ARG	X	17	53.367	69.725	21.652	0.00	0.00
ATOM	273	HH12	ARG	X	17	54.847	70.265	20.933	0.00	0.00
ATOM	274	NH2	ARG	X	17	56.192	69.389	22.967	0.00	0.00
ATOM	275	HH21	ARG	X	17	56.622	68.681	23.545	0.00	0.00
ATOM	276	HH22	ARG	X	17	56.804	69.807	22.281	0.00	0.00
ATOM	277	C	ARG	X	17	53.412	65.319	26.741	0.00	0.00
ATOM	278	O	ARG	X	17	54.593	65.622	26.475	0.00	0.00

ATOM	279	N	LEU	X	18	52.947	64.088	26.989	0.00	0.00
ATOM	280	H	LEU	X	18	51.940	64.027	27.017	0.00	0.00
ATOM	281	CA	LEU	X	18	53.757	62.943	26.550	0.00	0.00
ATOM	282	HA	LEU	X	18	54.760	63.168	26.913	0.00	0.00
ATOM	283	CB	LEU	X	18	53.303	61.626	27.167	0.00	0.00
ATOM	284	HB2	LEU	X	18	52.274	61.486	26.837	0.00	0.00
ATOM	285	HB3	LEU	X	18	53.916	60.776	26.868	0.00	0.00
ATOM	286	CG	LEU	X	18	53.399	61.625	28.727	0.00	0.00
ATOM	287	HG	LEU	X	18	52.749	62.420	29.093	0.00	0.00
ATOM	288	CD1	LEU	X	18	52.796	60.330	29.286	0.00	0.00
ATOM	289	HD11	LEU	X	18	53.476	59.529	28.997	0.00	0.00
ATOM	290	HD12	LEU	X	18	52.916	60.333	30.370	0.00	0.00
ATOM	291	HD13	LEU	X	18	51.816	60.129	28.854	0.00	0.00
ATOM	292	CD2	LEU	X	18	54.780	61.872	29.366	0.00	0.00
ATOM	293	HD21	LEU	X	18	54.728	61.919	30.454	0.00	0.00
ATOM	294	HD22	LEU	X	18	55.393	60.992	29.170	0.00	0.00
ATOM	295	HD23	LEU	X	18	55.357	62.696	28.947	0.00	0.00
ATOM	296	C	LEU	X	18	53.969	62.877	24.983	0.00	0.00
ATOM	297	O	LEU	X	18	53.037	62.797	24.201	0.00	0.00
ATOM	298	N	LYS	X	19	55.224	62.996	24.509	0.00	0.00
ATOM	299	H	LYS	X	19	55.922	63.014	25.239	0.00	0.00
ATOM	300	CA	LYS	X	19	55.644	62.761	23.160	0.00	0.00
ATOM	301	HA	LYS	X	19	54.908	63.226	22.504	0.00	0.00
ATOM	302	CB	LYS	X	19	56.794	63.658	22.734	0.00	0.00
ATOM	303	HB2	LYS	X	19	57.667	63.434	23.347	0.00	0.00
ATOM	304	HB3	LYS	X	19	57.150	63.313	21.763	0.00	0.00
ATOM	305	CG	LYS	X	19	56.530	65.179	22.856	0.00	0.00
ATOM	306	HG2	LYS	X	19	55.574	65.527	22.466	0.00	0.00
ATOM	307	HG3	LYS	X	19	56.317	65.328	23.914	0.00	0.00
ATOM	308	CD	LYS	X	19	57.629	66.076	22.343	0.00	0.00
ATOM	309	HD2	LYS	X	19	57.355	67.130	22.387	0.00	0.00
ATOM	310	HD3	LYS	X	19	58.504	65.925	22.974	0.00	0.00
ATOM	311	CE	LYS	X	19	57.889	65.699	20.898	0.00	0.00
ATOM	312	HE2	LYS	X	19	58.042	64.625	20.790	0.00	0.00
ATOM	313	HE3	LYS	X	19	56.985	65.954	20.345	0.00	0.00
ATOM	314	NZ	LYS	X	19	58.985	66.464	20.231	0.00	0.00
ATOM	315	HZ1	LYS	X	19	58.788	66.351	19.246	0.00	0.00
ATOM	316	HZ2	LYS	X	19	58.909	67.434	20.500	0.00	0.00
ATOM	317	HZ3	LYS	X	19	59.871	66.007	20.395	0.00	0.00
ATOM	318	C	LYS	X	19	55.696	61.255	22.815	0.00	0.00
ATOM	319	O	LYS	X	19	56.047	60.446	23.632	0.00	0.00
ATOM	320	N	THR	X	20	55.369	60.905	21.581	0.00	0.00
ATOM	321	H	THR	X	20	55.027	61.629	20.964	0.00	0.00
ATOM	322	CA	THR	X	20	55.540	59.546	21.069	0.00	0.00
ATOM	323	HA	THR	X	20	56.456	59.223	21.563	0.00	0.00
ATOM	324	CB	THR	X	20	54.397	58.658	21.496	0.00	0.00
ATOM	325	HB	THR	X	20	54.295	57.863	20.757	0.00	0.00
ATOM	326	CG2	THR	X	20	54.796	57.778	22.684	0.00	0.00
ATOM	327	HG21	THR	X	20	55.144	58.276	23.590	0.00	0.00
ATOM	328	HG22	THR	X	20	53.918	57.217	23.002	0.00	0.00
ATOM	329	HG23	THR	X	20	55.690	57.192	22.471	0.00	0.00
ATOM	330	OG1	THR	X	20	53.190	59.276	21.925	0.00	0.00
ATOM	331	HG1	THR	X	20	52.905	59.756	21.144	0.00	0.00
ATOM	332	C	THR	X	20	55.760	59.496	19.586	0.00	0.00
ATOM	333	O	THR	X	20	55.638	60.520	18.915	0.00	0.00
ATOM	334	N	PRO	X	21	56.051	58.347	18.950	0.00	0.00
ATOM	335	CD	PRO	X	21	56.598	57.087	19.379	0.00	0.00
ATOM	336	HD2	PRO	X	21	55.863	56.313	19.601	0.00	0.00
ATOM	337	HD3	PRO	X	21	57.147	57.105	20.320	0.00	0.00
ATOM	338	CG	PRO	X	21	57.567	56.596	18.303	0.00	0.00
ATOM	339	HG2	PRO	X	21	57.750	55.522	18.350	0.00	0.00
ATOM	340	HG3	PRO	X	21	58.509	57.136	18.396	0.00	0.00
ATOM	341	CB	PRO	X	21	56.757	56.996	17.077	0.00	0.00
ATOM	342	HB2	PRO	X	21	55.956	56.319	16.781	0.00	0.00
ATOM	343	HB3	PRO	X	21	57.437	57.072	16.228	0.00	0.00
ATOM	344	CA	PRO	X	21	56.229	58.358	17.463	0.00	0.00
ATOM	345	HA	PRO	X	21	57.064	59.029	17.263	0.00	0.00
ATOM	346	C	PRO	X	21	55.066	58.817	16.630	0.00	0.00
ATOM	347	O	PRO	X	21	55.188	59.487	15.596	0.00	0.00
ATOM	348	N	GLY	X	22	53.912	58.303	17.106	0.00	0.00

ATOM	349	H	GLY	X	22	53.990	57.564	17.790	0.00	0.00
ATOM	350	CA	GLY	X	22	52.577	58.524	16.578	0.00	0.00
ATOM	351	HA2	GLY	X	22	52.592	58.247	15.521	0.00	0.00
ATOM	352	HA3	GLY	X	22	51.865	57.853	17.107	0.00	0.00
ATOM	353	C	GLY	X	22	51.965	59.883	16.997	0.00	0.00
ATOM	354	O	GLY	X	22	50.744	59.955	17.052	0.00	0.00
ATOM	355	N	GLY	X	23	52.820	60.873	17.354	0.00	0.00
ATOM	356	H	GLY	X	23	53.799	60.726	17.156	0.00	0.00
ATOM	357	CA	GLY	X	23	52.432	62.149	17.861	0.00	0.00
ATOM	358	HA2	GLY	X	23	53.249	62.955	17.714	0.00	0.00
ATOM	359	HA3	GLY	X	23	51.448	62.440	17.486	0.00	0.00
ATOM	360	C	GLY	X	23	52.086	62.030	19.361	0.00	0.00
ATOM	361	O	GLY	X	23	51.949	60.916	19.942	0.00	0.00
ATOM	362	N	PRO	X	24	51.752	63.193	19.965	0.00	0.00
ATOM	363	CD	PRO	X	24	51.828	64.523	19.391	0.00	0.00
ATOM	364	HD2	PRO	X	24	51.440	64.683	18.385	0.00	0.00
ATOM	365	HD3	PRO	X	24	52.888	64.714	19.226	0.00	0.00
ATOM	366	CG	PRO	X	24	51.318	65.473	20.493	0.00	0.00
ATOM	367	HG2	PRO	X	24	50.239	65.427	20.640	0.00	0.00
ATOM	368	HG3	PRO	X	24	51.775	66.460	20.418	0.00	0.00
ATOM	369	CB	PRO	X	24	51.803	64.773	21.786	0.00	0.00
ATOM	370	HB2	PRO	X	24	51.249	65.154	22.644	0.00	0.00
ATOM	371	HB3	PRO	X	24	52.820	65.110	21.984	0.00	0.00
ATOM	372	CA	PRO	X	24	51.637	63.320	21.406	0.00	0.00
ATOM	373	HA	PRO	X	24	52.414	62.761	21.928	0.00	0.00
ATOM	374	C	PRO	X	24	50.280	62.817	21.925	0.00	0.00
ATOM	375	O	PRO	X	24	49.329	62.827	21.250	0.00	0.00
ATOM	376	N	VAL	X	25	50.269	62.465	23.221	0.00	0.00
ATOM	377	H	VAL	X	25	51.150	62.690	23.661	0.00	0.00
ATOM	378	CA	VAL	X	25	49.107	62.316	24.233	0.00	0.00
ATOM	379	HA	VAL	X	25	48.200	62.590	23.693	0.00	0.00
ATOM	380	CB	VAL	X	25	48.961	60.961	24.739	0.00	0.00
ATOM	381	HB	VAL	X	25	47.964	60.850	25.164	0.00	0.00
ATOM	382	CG1	VAL	X	25	48.807	59.979	23.422	0.00	0.00
ATOM	383	HG11	VAL	X	25	48.229	59.109	23.731	0.00	0.00
ATOM	384	HG12	VAL	X	25	48.157	60.538	22.749	0.00	0.00
ATOM	385	HG13	VAL	X	25	49.748	59.781	22.909	0.00	0.00
ATOM	386	CG2	VAL	X	25	49.937	60.384	25.728	0.00	0.00
ATOM	387	HG21	VAL	X	25	50.853	60.144	25.188	0.00	0.00
ATOM	388	HG22	VAL	X	25	50.265	61.093	26.489	0.00	0.00
ATOM	389	HG23	VAL	X	25	49.491	59.521	26.222	0.00	0.00
ATOM	390	C	VAL	X	25	49.331	63.243	25.442	0.00	0.00
ATOM	391	O	VAL	X	25	50.406	63.867	25.497	0.00	0.00
ATOM	392	N	SER	X	26	48.323	63.465	26.312	0.00	0.00
ATOM	393	H	SER	X	26	47.510	62.870	26.246	0.00	0.00
ATOM	394	CA	SER	X	26	48.495	64.249	27.579	0.00	0.00
ATOM	395	HA	SER	X	26	49.483	64.706	27.527	0.00	0.00
ATOM	396	CB	SER	X	26	47.538	65.412	27.734	0.00	0.00
ATOM	397	HB2	SER	X	26	47.568	65.857	28.728	0.00	0.00
ATOM	398	HB3	SER	X	26	47.839	66.210	27.054	0.00	0.00
ATOM	399	OG	SER	X	26	46.204	65.029	27.336	0.00	0.00
ATOM	400	HG	SER	X	26	46.126	64.320	26.694	0.00	0.00
ATOM	401	C	SER	X	26	48.271	63.445	28.849	0.00	0.00
ATOM	402	O	SER	X	26	47.481	62.480	28.805	0.00	0.00
ATOM	403	N	ALA	X	27	49.047	63.666	29.892	0.00	0.00
ATOM	404	H	ALA	X	27	49.648	64.475	29.962	0.00	0.00
ATOM	405	CA	ALA	X	27	48.829	62.886	31.071	0.00	0.00
ATOM	406	HA	ALA	X	27	47.939	62.258	31.021	0.00	0.00
ATOM	407	CB	ALA	X	27	49.988	61.809	31.183	0.00	0.00
ATOM	408	HB1	ALA	X	27	50.956	62.213	31.480	0.00	0.00
ATOM	409	HB2	ALA	X	27	49.695	61.101	31.957	0.00	0.00
ATOM	410	HB3	ALA	X	27	50.066	61.218	30.270	0.00	0.00
ATOM	411	C	ALA	X	27	48.692	63.793	32.304	0.00	0.00
ATOM	412	O	ALA	X	27	49.098	64.974	32.301	0.00	0.00
ATOM	413	N	PHE	X	28	47.993	63.213	33.261	0.00	0.00
ATOM	414	H	PHE	X	28	47.837	62.215	33.244	0.00	0.00
ATOM	415	CA	PHE	X	28	47.525	63.746	34.477	0.00	0.00
ATOM	416	HA	PHE	X	28	48.051	64.684	34.654	0.00	0.00
ATOM	417	CB	PHE	X	28	46.018	64.055	34.267	0.00	0.00
ATOM	418	HB2	PHE	X	28	45.551	63.121	33.955	0.00	0.00

ATOM	419	HB3	PHE	X	28	45.550	64.492	35.149	0.00	0.00
ATOM	420	CG	PHE	X	28	45.740	65.008	33.083	0.00	0.00
ATOM	421	CD1	PHE	X	28	45.220	64.625	31.843	0.00	0.00
ATOM	422	HD1	PHE	X	28	44.844	63.622	31.707	0.00	0.00
ATOM	423	CE1	PHE	X	28	45.129	65.466	30.741	0.00	0.00
ATOM	424	HE1	PHE	X	28	44.944	65.041	29.766	0.00	0.00
ATOM	425	CZ	PHE	X	28	45.393	66.818	30.968	0.00	0.00
ATOM	426	HZ	PHE	X	28	45.363	67.517	30.146	0.00	0.00
ATOM	427	CE2	PHE	X	28	45.634	67.302	32.242	0.00	0.00
ATOM	428	HE2	PHE	X	28	45.824	68.339	32.476	0.00	0.00
ATOM	429	CD2	PHE	X	28	45.958	66.335	33.239	0.00	0.00
ATOM	430	HD2	PHE	X	28	46.289	66.673	34.210	0.00	0.00
ATOM	431	C	PHE	X	28	47.758	62.656	35.626	0.00	0.00
ATOM	432	O	PHE	X	28	47.161	61.582	35.511	0.00	0.00
ATOM	433	N	LEU	X	29	48.601	62.858	36.648	0.00	0.00
ATOM	434	H	LEU	X	29	49.089	63.742	36.621	0.00	0.00
ATOM	435	CA	LEU	X	29	49.013	61.841	37.657	0.00	0.00
ATOM	436	HA	LEU	X	29	48.371	60.979	37.478	0.00	0.00
ATOM	437	CB	LEU	X	29	50.463	61.386	37.362	0.00	0.00
ATOM	438	HB2	LEU	X	29	51.122	62.254	37.398	0.00	0.00
ATOM	439	HB3	LEU	X	29	50.876	60.747	38.143	0.00	0.00
ATOM	440	CG	LEU	X	29	50.632	60.855	35.894	0.00	0.00
ATOM	441	HG	LEU	X	29	49.699	60.644	35.371	0.00	0.00
ATOM	442	CD1	LEU	X	29	51.385	61.878	34.997	0.00	0.00
ATOM	443	HD11	LEU	X	29	50.640	62.606	34.675	0.00	0.00
ATOM	444	HD12	LEU	X	29	52.264	62.236	35.533	0.00	0.00
ATOM	445	HD13	LEU	X	29	51.646	61.348	34.081	0.00	0.00
ATOM	446	CD2	LEU	X	29	51.474	59.608	35.931	0.00	0.00
ATOM	447	HD21	LEU	X	29	52.443	59.706	36.422	0.00	0.00
ATOM	448	HD22	LEU	X	29	50.834	58.935	36.501	0.00	0.00
ATOM	449	HD23	LEU	X	29	51.549	59.160	34.940	0.00	0.00
ATOM	450	C	LEU	X	29	48.942	62.438	39.086	0.00	0.00
ATOM	451	O	LEU	X	29	49.133	63.648	39.228	0.00	0.00
ATOM	452	N	GLY	X	30	48.564	61.618	40.040	0.00	0.00
ATOM	453	H	GLY	X	30	48.389	60.640	39.860	0.00	0.00
ATOM	454	CA	GLY	X	30	48.485	62.065	41.391	0.00	0.00
ATOM	455	HA2	GLY	X	30	48.263	61.153	42.023	0.00	0.00
ATOM	456	HA3	GLY	X	30	49.408	62.616	41.624	0.00	0.00
ATOM	457	C	GLY	X	30	47.336	62.982	41.644	0.00	0.00
ATOM	458	O	GLY	X	30	47.487	63.964	42.362	0.00	0.00
ATOM	459	N	ILE	X	31	46.233	62.618	41.099	0.00	0.00
ATOM	460	H	ILE	X	31	46.273	61.720	40.637	0.00	0.00
ATOM	461	CA	ILE	X	31	44.977	63.340	41.251	0.00	0.00
ATOM	462	HA	ILE	X	31	45.227	64.401	41.217	0.00	0.00
ATOM	463	CB	ILE	X	31	44.089	63.050	40.020	0.00	0.00
ATOM	464	HB	ILE	X	31	44.068	61.965	39.918	0.00	0.00
ATOM	465	CG2	ILE	X	31	42.674	63.586	40.227	0.00	0.00
ATOM	466	HG21	ILE	X	31	42.042	63.179	39.438	0.00	0.00
ATOM	467	HG22	ILE	X	31	42.186	63.202	41.123	0.00	0.00
ATOM	468	HG23	ILE	X	31	42.593	64.670	40.314	0.00	0.00
ATOM	469	CG1	ILE	X	31	44.606	63.744	38.664	0.00	0.00
ATOM	470	HG12	ILE	X	31	44.429	64.816	38.745	0.00	0.00
ATOM	471	HG13	ILE	X	31	45.678	63.626	38.507	0.00	0.00
ATOM	472	CD1	ILE	X	31	43.954	63.092	37.432	0.00	0.00
ATOM	473	HD11	ILE	X	31	44.537	63.273	36.528	0.00	0.00
ATOM	474	HD12	ILE	X	31	43.798	62.021	37.567	0.00	0.00
ATOM	475	HD13	ILE	X	31	42.988	63.513	37.155	0.00	0.00
ATOM	476	C	ILE	X	31	44.325	62.922	42.556	0.00	0.00
ATOM	477	O	ILE	X	31	44.056	61.744	42.784	0.00	0.00
ATOM	478	N	PRO	X	32	43.999	63.840	43.470	0.00	0.00
ATOM	479	CD	PRO	X	32	44.305	65.264	43.320	0.00	0.00
ATOM	480	HD2	PRO	X	32	43.890	65.819	42.479	0.00	0.00
ATOM	481	HD3	PRO	X	32	45.376	65.461	43.366	0.00	0.00
ATOM	482	CG	PRO	X	32	43.795	65.921	44.594	0.00	0.00
ATOM	483	HG2	PRO	X	32	42.766	66.245	44.439	0.00	0.00
ATOM	484	HG3	PRO	X	32	44.463	66.733	44.884	0.00	0.00
ATOM	485	CB	PRO	X	32	43.710	64.737	45.600	0.00	0.00
ATOM	486	HB2	PRO	X	32	42.952	64.984	46.343	0.00	0.00
ATOM	487	HB3	PRO	X	32	44.670	64.531	46.075	0.00	0.00
ATOM	488	CA	PRO	X	32	43.396	63.513	44.760	0.00	0.00

ATOM	489	HA	PRO	X	32	43.887	62.690	45.280	0.00	0.00
ATOM	490	C	PRO	X	32	41.891	63.211	44.686	0.00	0.00
ATOM	491	O	PRO	X	32	41.068	64.162	44.626	0.00	0.00
ATOM	492	N	PHE	X	33	41.484	61.913	44.831	0.00	0.00
ATOM	493	H	PHE	X	33	42.233	61.236	44.858	0.00	0.00
ATOM	494	CA	PHE	X	33	40.066	61.518	44.821	0.00	0.00
ATOM	495	HA	PHE	X	33	39.441	62.248	44.308	0.00	0.00
ATOM	496	CB	PHE	X	33	39.813	60.182	44.070	0.00	0.00
ATOM	497	HB2	PHE	X	33	38.737	60.271	43.927	0.00	0.00
ATOM	498	HB3	PHE	X	33	40.339	60.264	43.119	0.00	0.00
ATOM	499	CG	PHE	X	33	40.086	58.801	44.648	0.00	0.00
ATOM	500	CD1	PHE	X	33	39.366	58.298	45.714	0.00	0.00
ATOM	501	HD1	PHE	X	33	38.482	58.788	46.094	0.00	0.00
ATOM	502	CE1	PHE	X	33	39.706	57.085	46.372	0.00	0.00
ATOM	503	HE1	PHE	X	33	39.142	56.688	47.204	0.00	0.00
ATOM	504	CZ	PHE	X	33	40.800	56.364	45.874	0.00	0.00
ATOM	505	HZ	PHE	X	33	40.956	55.417	46.369	0.00	0.00
ATOM	506	CE2	PHE	X	33	41.518	56.847	44.801	0.00	0.00
ATOM	507	HE2	PHE	X	33	42.360	56.268	44.452	0.00	0.00
ATOM	508	CD2	PHE	X	33	41.183	58.041	44.217	0.00	0.00
ATOM	509	HD2	PHE	X	33	41.764	58.374	43.369	0.00	0.00
ATOM	510	C	PHE	X	33	39.397	61.467	46.215	0.00	0.00
ATOM	511	O	PHE	X	33	38.210	61.680	46.320	0.00	0.00
ATOM	512	N	ALA	X	34	40.151	61.357	47.328	0.00	0.00
ATOM	513	H	ALA	X	34	41.138	61.154	47.254	0.00	0.00
ATOM	514	CA	ALA	X	34	39.665	61.197	48.702	0.00	0.00
ATOM	515	HA	ALA	X	34	38.619	61.494	48.768	0.00	0.00
ATOM	516	CB	ALA	X	34	39.711	59.685	48.935	0.00	0.00
ATOM	517	HB1	ALA	X	34	38.973	59.229	48.274	0.00	0.00
ATOM	518	HB2	ALA	X	34	40.544	59.052	48.630	0.00	0.00
ATOM	519	HB3	ALA	X	34	39.510	59.500	49.990	0.00	0.00
ATOM	520	C	ALA	X	34	40.514	61.849	49.737	0.00	0.00
ATOM	521	O	ALA	X	34	41.742	62.057	49.631	0.00	0.00
ATOM	522	N	GLU	X	35	39.919	62.107	50.879	0.00	0.00
ATOM	523	H	GLU	X	35	39.141	61.488	51.058	0.00	0.00
ATOM	524	CA	GLU	X	35	40.596	62.743	52.068	0.00	0.00
ATOM	525	HA	GLU	X	35	41.212	63.582	51.742	0.00	0.00
ATOM	526	CB	GLU	X	35	39.493	63.144	53.044	0.00	0.00
ATOM	527	HB2	GLU	X	35	38.898	62.289	53.368	0.00	0.00
ATOM	528	HB3	GLU	X	35	39.908	63.518	53.980	0.00	0.00
ATOM	529	CG	GLU	X	35	38.588	64.284	52.506	0.00	0.00
ATOM	530	HG2	GLU	X	35	38.281	64.061	51.484	0.00	0.00
ATOM	531	HG3	GLU	X	35	37.849	64.298	53.307	0.00	0.00
ATOM	532	CD	GLU	X	35	39.217	65.622	52.532	0.00	0.00
ATOM	533	OE1	GLU	X	35	39.577	66.200	53.560	0.00	0.00
ATOM	534	OE2	GLU	X	35	39.228	66.175	51.432	0.00	0.00
ATOM	535	C	GLU	X	35	41.426	61.603	52.711	0.00	0.00
ATOM	536	O	GLU	X	35	40.849	60.536	52.953	0.00	0.00
ATOM	537	N	PRO	X	36	42.728	61.852	52.958	0.00	0.00
ATOM	538	CD	PRO	X	36	43.404	63.044	52.724	0.00	0.00
ATOM	539	HD2	PRO	X	36	43.112	63.874	53.368	0.00	0.00
ATOM	540	HD3	PRO	X	36	43.361	63.278	51.660	0.00	0.00
ATOM	541	CG	PRO	X	36	44.825	62.748	53.008	0.00	0.00
ATOM	542	HG2	PRO	X	36	45.350	63.672	53.253	0.00	0.00
ATOM	543	HG3	PRO	X	36	45.403	62.277	52.214	0.00	0.00
ATOM	544	CB	PRO	X	36	44.757	61.726	54.190	0.00	0.00
ATOM	545	HB2	PRO	X	36	44.577	62.372	55.050	0.00	0.00
ATOM	546	HB3	PRO	X	36	45.726	61.233	54.272	0.00	0.00
ATOM	547	CA	PRO	X	36	43.595	60.878	53.539	0.00	0.00
ATOM	548	HA	PRO	X	36	44.211	60.348	52.813	0.00	0.00
ATOM	549	C	PRO	X	36	42.941	60.003	54.603	0.00	0.00
ATOM	550	O	PRO	X	36	42.536	60.529	55.621	0.00	0.00
ATOM	551	N	PRO	X	37	42.994	58.623	54.405	0.00	0.00
ATOM	552	CD	PRO	X	37	43.442	58.009	53.217	0.00	0.00
ATOM	553	HD2	PRO	X	37	44.431	58.416	53.008	0.00	0.00
ATOM	554	HD3	PRO	X	37	42.819	58.116	52.329	0.00	0.00
ATOM	555	CG	PRO	X	37	43.629	56.552	53.522	0.00	0.00
ATOM	556	HG2	PRO	X	37	44.623	56.375	53.933	0.00	0.00
ATOM	557	HG3	PRO	X	37	43.515	55.987	52.598	0.00	0.00
ATOM	558	CB	PRO	X	37	42.536	56.277	54.558	0.00	0.00

ATOM	559	HB2	PRO	X	37	42.949	55.480	55.176	0.00	0.00
ATOM	560	HB3	PRO	X	37	41.558	56.172	54.089	0.00	0.00
ATOM	561	CA	PRO	X	37	42.564	57.579	55.340	0.00	0.00
ATOM	562	HA	PRO	X	37	41.552	57.943	55.517	0.00	0.00
ATOM	563	C	PRO	X	37	43.343	57.511	56.667	0.00	0.00
ATOM	564	O	PRO	X	37	43.269	56.511	57.417	0.00	0.00
ATOM	565	N	MET	X	38	44.276	58.416	56.955	0.00	0.00
ATOM	566	H	MET	X	38	44.328	59.221	56.346	0.00	0.00
ATOM	567	CA	MET	X	38	45.053	58.426	58.212	0.00	0.00
ATOM	568	HA	MET	X	38	45.634	57.505	58.246	0.00	0.00
ATOM	569	CB	MET	X	38	46.077	59.628	58.226	0.00	0.00
ATOM	570	HB2	MET	X	38	46.583	59.642	59.191	0.00	0.00
ATOM	571	HB3	MET	X	38	46.814	59.484	57.436	0.00	0.00
ATOM	572	CG	MET	X	38	45.414	60.991	57.909	0.00	0.00
ATOM	573	HG2	MET	X	38	44.839	60.912	56.986	0.00	0.00
ATOM	574	HG3	MET	X	38	44.644	61.137	58.667	0.00	0.00
ATOM	575	SD	MET	X	38	46.514	62.394	57.872	0.00	0.00
ATOM	576	CE	MET	X	38	46.988	62.469	59.566	0.00	0.00
ATOM	577	HE1	MET	X	38	47.565	63.387	59.677	0.00	0.00
ATOM	578	HE2	MET	X	38	46.086	62.503	60.176	0.00	0.00
ATOM	579	HE3	MET	X	38	47.614	61.605	59.786	0.00	0.00
ATOM	580	C	MET	X	38	44.200	58.572	59.499	0.00	0.00
ATOM	581	O	MET	X	38	43.186	59.303	59.451	0.00	0.00
ATOM	582	N	GLY	X	39	44.617	57.995	60.633	0.00	0.00
ATOM	583	H	GLY	X	39	45.521	57.550	60.571	0.00	0.00
ATOM	584	CA	GLY	X	39	44.027	58.187	61.960	0.00	0.00
ATOM	585	HA2	GLY	X	39	44.808	57.889	62.714	0.00	0.00
ATOM	586	HA3	GLY	X	39	43.867	59.246	62.010	0.00	0.00
ATOM	587	C	GLY	X	39	42.786	57.310	62.181	0.00	0.00
ATOM	588	O	GLY	X	39	42.868	56.097	62.007	0.00	0.00
ATOM	589	N	PRO	X	40	41.646	57.789	62.639	0.00	0.00
ATOM	590	CD	PRO	X	40	41.407	59.207	63.017	0.00	0.00
ATOM	591	HD2	PRO	X	40	41.288	59.866	62.157	0.00	0.00
ATOM	592	HD3	PRO	X	40	42.248	59.485	63.652	0.00	0.00
ATOM	593	CG	PRO	X	40	40.118	59.198	63.879	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.495	60.089	63.801	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.522	58.931	64.856	0.00	0.00
ATOM	596	CB	PRO	X	40	39.378	57.963	63.363	0.00	0.00
ATOM	597	HB2	PRO	X	40	38.751	58.379	62.574	0.00	0.00
ATOM	598	HB3	PRO	X	40	38.728	57.544	64.131	0.00	0.00
ATOM	599	CA	PRO	X	40	40.452	57.005	62.833	0.00	0.00
ATOM	600	HA	PRO	X	40	40.786	56.291	63.586	0.00	0.00
ATOM	601	C	PRO	X	40	39.896	56.283	61.540	0.00	0.00
ATOM	602	O	PRO	X	40	39.375	55.171	61.616	0.00	0.00
ATOM	603	N	ARG	X	41	40.156	56.915	60.371	0.00	0.00
ATOM	604	H	ARG	X	41	40.679	57.779	60.358	0.00	0.00
ATOM	605	CA	ARG	X	41	39.844	56.304	59.102	0.00	0.00
ATOM	606	HA	ARG	X	41	38.768	56.161	59.005	0.00	0.00
ATOM	607	CB	ARG	X	41	40.255	57.418	58.135	0.00	0.00
ATOM	608	HB2	ARG	X	41	41.189	57.926	58.376	0.00	0.00
ATOM	609	HB3	ARG	X	41	40.513	56.875	57.226	0.00	0.00
ATOM	610	CG	ARG	X	41	39.235	58.539	58.029	0.00	0.00
ATOM	611	HG2	ARG	X	41	38.394	58.190	57.430	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.820	58.913	58.965	0.00	0.00
ATOM	613	CD	ARG	X	41	39.905	59.730	57.371	0.00	0.00
ATOM	614	HD2	ARG	X	41	40.770	60.059	57.947	0.00	0.00
ATOM	615	HD3	ARG	X	41	40.309	59.348	56.433	0.00	0.00
ATOM	616	NE	ARG	X	41	38.947	60.784	57.158	0.00	0.00
ATOM	617	HE	ARG	X	41	37.966	60.551	57.225	0.00	0.00
ATOM	618	CZ	ARG	X	41	39.271	61.992	56.667	0.00	0.00
ATOM	619	NH1	ARG	X	41	40.521	62.399	56.428	0.00	0.00
ATOM	620	HH11	ARG	X	41	41.266	61.741	56.605	0.00	0.00
ATOM	621	HH12	ARG	X	41	40.694	63.302	56.010	0.00	0.00
ATOM	622	NH2	ARG	X	41	38.268	62.754	56.377	0.00	0.00
ATOM	623	HH21	ARG	X	41	37.327	62.500	56.641	0.00	0.00
ATOM	624	HH22	ARG	X	41	38.499	63.676	56.036	0.00	0.00
ATOM	625	C	ARG	X	41	40.525	54.985	58.786	0.00	0.00
ATOM	626	O	ARG	X	41	40.116	54.317	57.874	0.00	0.00
ATOM	627	N	ARG	X	42	41.549	54.557	59.508	0.00	0.00
ATOM	628	H	ARG	X	42	41.780	55.170	60.277	0.00	0.00

ATOM	629	CA	ARG	X	42	42.262	53.262	59.352	0.00	0.00
ATOM	630	HA	ARG	X	42	42.601	53.173	58.320	0.00	0.00
ATOM	631	CB	ARG	X	42	43.537	53.256	60.250	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.129	54.052	59.799	0.00	0.00
ATOM	633	HB3	ARG	X	42	43.307	53.591	61.262	0.00	0.00
ATOM	634	CG	ARG	X	42	44.259	51.881	60.221	0.00	0.00
ATOM	635	HG2	ARG	X	42	43.523	51.110	60.451	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.557	51.693	59.190	0.00	0.00
ATOM	637	CD	ARG	X	42	45.459	51.781	61.168	0.00	0.00
ATOM	638	HD2	ARG	X	42	45.191	51.934	62.214	0.00	0.00
ATOM	639	HD3	ARG	X	42	45.865	50.770	61.122	0.00	0.00
ATOM	640	NE	ARG	X	42	46.501	52.694	60.808	0.00	0.00
ATOM	641	HE	ARG	X	42	46.385	53.367	60.064	0.00	0.00
ATOM	642	CZ	ARG	X	42	47.481	53.028	61.657	0.00	0.00
ATOM	643	NH1	ARG	X	42	47.808	52.253	62.715	0.00	0.00
ATOM	644	HH11	ARG	X	42	47.297	51.415	62.952	0.00	0.00
ATOM	645	HH12	ARG	X	42	48.446	52.653	63.388	0.00	0.00
ATOM	646	NH2	ARG	X	42	48.138	54.076	61.527	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.923	54.510	60.641	0.00	0.00
ATOM	648	HH22	ARG	X	42	48.854	54.391	62.167	0.00	0.00
ATOM	649	C	ARG	X	42	41.274	52.110	59.656	0.00	0.00
ATOM	650	O	ARG	X	42	40.678	52.143	60.726	0.00	0.00
ATOM	651	N	PHE	X	43	41.008	51.246	58.715	0.00	0.00
ATOM	652	H	PHE	X	43	41.358	51.430	57.785	0.00	0.00
ATOM	653	CA	PHE	X	43	40.029	50.131	58.662	0.00	0.00
ATOM	654	HA	PHE	X	43	40.319	49.433	57.876	0.00	0.00
ATOM	655	CB	PHE	X	43	40.109	49.267	59.904	0.00	0.00
ATOM	656	HB2	PHE	X	43	39.506	49.805	60.635	0.00	0.00
ATOM	657	HB3	PHE	X	43	39.573	48.325	59.791	0.00	0.00
ATOM	658	CG	PHE	X	43	41.467	48.971	60.449	0.00	0.00
ATOM	659	CD1	PHE	X	43	42.450	48.372	59.610	0.00	0.00
ATOM	660	HD1	PHE	X	43	42.109	48.066	58.632	0.00	0.00
ATOM	661	CE1	PHE	X	43	43.659	48.090	60.173	0.00	0.00
ATOM	662	HE1	PHE	X	43	44.379	47.545	59.580	0.00	0.00
ATOM	663	CZ	PHE	X	43	44.024	48.322	61.553	0.00	0.00
ATOM	664	HZ	PHE	X	43	45.002	48.193	61.992	0.00	0.00
ATOM	665	CE2	PHE	X	43	42.998	49.012	62.292	0.00	0.00
ATOM	666	HE2	PHE	X	43	43.224	49.402	63.273	0.00	0.00
ATOM	667	CD2	PHE	X	43	41.719	49.352	61.766	0.00	0.00
ATOM	668	HD2	PHE	X	43	41.038	49.934	62.368	0.00	0.00
ATOM	669	C	PHE	X	43	38.572	50.501	58.404	0.00	0.00
ATOM	670	O	PHE	X	43	37.599	49.749	58.475	0.00	0.00
ATOM	671	N	LEU	X	44	38.367	51.787	58.001	0.00	0.00
ATOM	672	H	LEU	X	44	39.137	52.442	57.994	0.00	0.00
ATOM	673	CA	LEU	X	44	37.041	52.379	57.696	0.00	0.00
ATOM	674	HA	LEU	X	44	36.288	51.600	57.812	0.00	0.00
ATOM	675	CB	LEU	X	44	36.765	53.514	58.756	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.671	54.119	58.771	0.00	0.00
ATOM	677	HB3	LEU	X	44	35.878	54.092	58.495	0.00	0.00
ATOM	678	CG	LEU	X	44	36.340	52.986	60.174	0.00	0.00
ATOM	679	HG	LEU	X	44	37.094	52.254	60.466	0.00	0.00
ATOM	680	CD1	LEU	X	44	36.188	54.126	61.182	0.00	0.00
ATOM	681	HD11	LEU	X	44	35.786	53.835	62.153	0.00	0.00
ATOM	682	HD12	LEU	X	44	37.136	54.620	61.393	0.00	0.00
ATOM	683	HD13	LEU	X	44	35.550	54.914	60.782	0.00	0.00
ATOM	684	CD2	LEU	X	44	35.001	52.275	60.190	0.00	0.00
ATOM	685	HD21	LEU	X	44	34.974	51.844	61.191	0.00	0.00
ATOM	686	HD22	LEU	X	44	34.150	52.926	59.995	0.00	0.00
ATOM	687	HD23	LEU	X	44	34.977	51.476	59.449	0.00	0.00
ATOM	688	C	LEU	X	44	36.980	52.978	56.262	0.00	0.00
ATOM	689	O	LEU	X	44	38.021	53.069	55.648	0.00	0.00
ATOM	690	N	PRO	X	45	35.781	53.276	55.734	0.00	0.00
ATOM	691	CD	PRO	X	45	34.388	53.046	56.285	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.244	53.659	57.175	0.00	0.00
ATOM	693	HD3	PRO	X	45	34.303	52.016	56.632	0.00	0.00
ATOM	694	CG	PRO	X	45	33.318	53.363	55.141	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.386	53.822	55.474	0.00	0.00
ATOM	696	HG3	PRO	X	45	33.136	52.497	54.505	0.00	0.00
ATOM	697	CB	PRO	X	45	34.163	54.381	54.337	0.00	0.00
ATOM	698	HB2	PRO	X	45	34.022	55.358	54.799	0.00	0.00

ATOM	699	HB3	PRO	X	45	34.025	54.499	53.262	0.00	0.00
ATOM	700	CA	PRO	X	45	35.659	54.073	54.468	0.00	0.00
ATOM	701	HA	PRO	X	45	35.910	53.488	53.583	0.00	0.00
ATOM	702	C	PRO	X	45	36.454	55.344	54.433	0.00	0.00
ATOM	703	O	PRO	X	45	36.667	55.917	55.509	0.00	0.00
ATOM	704	N	PRO	X	46	36.898	55.739	53.270	0.00	0.00
ATOM	705	CD	PRO	X	46	36.775	55.004	52.040	0.00	0.00
ATOM	706	HD2	PRO	X	46	35.741	54.724	51.839	0.00	0.00
ATOM	707	HD3	PRO	X	46	37.473	54.174	52.152	0.00	0.00
ATOM	708	CG	PRO	X	46	37.331	55.890	51.008	0.00	0.00
ATOM	709	HG2	PRO	X	46	36.604	56.519	50.495	0.00	0.00
ATOM	710	HG3	PRO	X	46	37.965	55.283	50.362	0.00	0.00
ATOM	711	CB	PRO	X	46	38.190	56.865	51.768	0.00	0.00
ATOM	712	HB2	PRO	X	46	38.314	57.864	51.353	0.00	0.00
ATOM	713	HB3	PRO	X	46	39.168	56.466	52.038	0.00	0.00
ATOM	714	CA	PRO	X	46	37.417	57.055	53.017	0.00	0.00
ATOM	715	HA	PRO	X	46	38.117	57.286	53.819	0.00	0.00
ATOM	716	C	PRO	X	46	36.250	58.110	52.910	0.00	0.00
ATOM	717	O	PRO	X	46	35.124	57.879	53.342	0.00	0.00
ATOM	718	N	GLU	X	47	36.521	59.259	52.319	0.00	0.00
ATOM	719	H	GLU	X	47	37.449	59.498	52.000	0.00	0.00
ATOM	720	CA	GLU	X	47	35.665	60.427	52.200	0.00	0.00
ATOM	721	HA	GLU	X	47	34.653	60.089	51.976	0.00	0.00
ATOM	722	CB	GLU	X	47	35.678	61.332	53.389	0.00	0.00
ATOM	723	HB2	GLU	X	47	36.701	61.603	53.652	0.00	0.00
ATOM	724	HB3	GLU	X	47	35.123	62.219	53.084	0.00	0.00
ATOM	725	CG	GLU	X	47	35.099	60.770	54.670	0.00	0.00
ATOM	726	HG2	GLU	X	47	34.059	60.453	54.593	0.00	0.00
ATOM	727	HG3	GLU	X	47	35.612	59.855	54.966	0.00	0.00
ATOM	728	CD	GLU	X	47	35.213	61.809	55.822	0.00	0.00
ATOM	729	OE1	GLU	X	47	34.576	62.878	55.797	0.00	0.00
ATOM	730	OE2	GLU	X	47	35.994	61.525	56.772	0.00	0.00
ATOM	731	C	GLU	X	47	36.146	61.110	50.910	0.00	0.00
ATOM	732	O	GLU	X	47	37.288	60.996	50.639	0.00	0.00
ATOM	733	N	PRO	X	48	35.166	61.645	50.148	0.00	0.00
ATOM	734	CD	PRO	X	48	33.707	61.495	50.092	0.00	0.00
ATOM	735	HD2	PRO	X	48	33.284	62.200	50.807	0.00	0.00
ATOM	736	HD3	PRO	X	48	33.448	60.493	50.435	0.00	0.00
ATOM	737	CG	PRO	X	48	33.169	61.712	48.690	0.00	0.00
ATOM	738	HG2	PRO	X	48	32.163	62.120	48.585	0.00	0.00
ATOM	739	HG3	PRO	X	48	33.253	60.820	48.068	0.00	0.00
ATOM	740	CB	PRO	X	48	34.239	62.613	48.128	0.00	0.00
ATOM	741	HB2	PRO	X	48	33.888	63.626	48.323	0.00	0.00
ATOM	742	HB3	PRO	X	48	34.292	62.552	47.041	0.00	0.00
ATOM	743	CA	PRO	X	48	35.523	62.346	48.893	0.00	0.00
ATOM	744	HA	PRO	X	48	36.112	61.668	48.274	0.00	0.00
ATOM	745	C	PRO	X	48	36.308	63.676	49.183	0.00	0.00
ATOM	746	O	PRO	X	48	35.907	64.569	49.878	0.00	0.00
ATOM	747	N	LYS	X	49	37.347	63.845	48.386	0.00	0.00
ATOM	748	H	LYS	X	49	37.538	63.191	47.640	0.00	0.00
ATOM	749	CA	LYS	X	49	38.254	64.917	48.459	0.00	0.00
ATOM	750	HA	LYS	X	49	38.595	64.929	49.494	0.00	0.00
ATOM	751	CB	LYS	X	49	39.395	64.712	47.441	0.00	0.00
ATOM	752	HB2	LYS	X	49	39.914	63.754	47.462	0.00	0.00
ATOM	753	HB3	LYS	X	49	38.921	64.683	46.460	0.00	0.00
ATOM	754	CG	LYS	X	49	40.418	65.826	47.541	0.00	0.00
ATOM	755	HG2	LYS	X	49	40.952	65.757	46.594	0.00	0.00
ATOM	756	HG3	LYS	X	49	40.055	66.852	47.469	0.00	0.00
ATOM	757	CD	LYS	X	49	41.356	65.593	48.641	0.00	0.00
ATOM	758	HD2	LYS	X	49	40.776	65.676	49.560	0.00	0.00
ATOM	759	HD3	LYS	X	49	41.794	64.595	48.667	0.00	0.00
ATOM	760	CE	LYS	X	49	42.440	66.699	48.809	0.00	0.00
ATOM	761	HE2	LYS	X	49	43.081	66.858	47.941	0.00	0.00
ATOM	762	HE3	LYS	X	49	41.975	67.622	49.157	0.00	0.00
ATOM	763	NZ	LYS	X	49	43.416	66.181	49.819	0.00	0.00
ATOM	764	HZ1	LYS	X	49	43.731	65.264	49.533	0.00	0.00
ATOM	765	HZ2	LYS	X	49	44.244	66.758	49.842	0.00	0.00
ATOM	766	HZ3	LYS	X	49	43.083	66.180	50.773	0.00	0.00
ATOM	767	C	LYS	X	49	37.508	66.237	48.342	0.00	0.00
ATOM	768	O	LYS	X	49	36.905	66.636	47.277	0.00	0.00

ATOM	769	N	GLN	X	50	37.586	66.996	49.421	0.00	0.00
ATOM	770	H	GLN	X	50	38.103	66.692	50.234	0.00	0.00
ATOM	771	CA	GLN	X	50	36.977	68.273	49.490	0.00	0.00
ATOM	772	HA	GLN	X	50	35.930	68.100	49.239	0.00	0.00
ATOM	773	CB	GLN	X	50	36.958	68.917	50.847	0.00	0.00
ATOM	774	HB2	GLN	X	50	38.011	68.964	51.123	0.00	0.00
ATOM	775	HB3	GLN	X	50	36.641	69.960	50.839	0.00	0.00
ATOM	776	CG	GLN	X	50	36.133	68.298	51.957	0.00	0.00
ATOM	777	HG2	GLN	X	50	35.092	68.593	51.826	0.00	0.00
ATOM	778	HG3	GLN	X	50	36.259	67.230	52.137	0.00	0.00
ATOM	779	CD	GLN	X	50	36.357	68.899	53.364	0.00	0.00
ATOM	780	OE1	GLN	X	50	35.418	69.320	54.024	0.00	0.00
ATOM	781	NE2	GLN	X	50	37.590	68.840	53.832	0.00	0.00
ATOM	782	HE21	GLN	X	50	37.751	69.221	54.753	0.00	0.00
ATOM	783	HE22	GLN	X	50	38.380	68.510	53.296	0.00	0.00
ATOM	784	C	GLN	X	50	37.738	69.280	48.432	0.00	0.00
ATOM	785	O	GLN	X	50	38.945	69.318	48.506	0.00	0.00
ATOM	786	N	PRO	X	51	36.965	70.158	47.831	0.00	0.00
ATOM	787	CD	PRO	X	51	35.510	70.233	47.966	0.00	0.00
ATOM	788	HD2	PRO	X	51	35.213	70.285	49.013	0.00	0.00
ATOM	789	HD3	PRO	X	51	35.077	69.395	47.420	0.00	0.00
ATOM	790	CG	PRO	X	51	35.197	71.522	47.303	0.00	0.00
ATOM	791	HG2	PRO	X	51	35.346	72.368	47.973	0.00	0.00
ATOM	792	HG3	PRO	X	51	34.163	71.422	46.974	0.00	0.00
ATOM	793	CB	PRO	X	51	36.139	71.490	46.066	0.00	0.00
ATOM	794	HB2	PRO	X	51	36.245	72.435	45.534	0.00	0.00
ATOM	795	HB3	PRO	X	51	35.753	70.715	45.403	0.00	0.00
ATOM	796	CA	PRO	X	51	37.433	71.023	46.752	0.00	0.00
ATOM	797	HA	PRO	X	51	37.943	70.469	45.963	0.00	0.00
ATOM	798	C	PRO	X	51	38.456	72.115	47.173	0.00	0.00
ATOM	799	O	PRO	X	51	38.569	72.549	48.379	0.00	0.00
ATOM	800	N	TRP	X	52	39.261	72.577	46.217	0.00	0.00
ATOM	801	H	TRP	X	52	39.056	72.347	45.255	0.00	0.00
ATOM	802	CA	TRP	X	52	40.501	73.360	46.367	0.00	0.00
ATOM	803	HA	TRP	X	52	40.643	73.627	47.414	0.00	0.00
ATOM	804	CB	TRP	X	52	41.744	72.552	45.911	0.00	0.00
ATOM	805	HB2	TRP	X	52	42.656	73.138	45.797	0.00	0.00
ATOM	806	HB3	TRP	X	52	41.940	71.853	46.725	0.00	0.00
ATOM	807	CG	TRP	X	52	41.655	71.902	44.580	0.00	0.00
ATOM	808	CD1	TRP	X	52	42.025	72.454	43.386	0.00	0.00
ATOM	809	HD1	TRP	X	52	42.359	73.475	43.276	0.00	0.00
ATOM	810	NE1	TRP	X	52	41.929	71.501	42.374	0.00	0.00
ATOM	811	HE1	TRP	X	52	42.231	71.666	41.424	0.00	0.00
ATOM	812	CE2	TRP	X	52	41.503	70.331	42.863	0.00	0.00
ATOM	813	CZ2	TRP	X	52	41.247	69.074	42.236	0.00	0.00
ATOM	814	HZ2	TRP	X	52	41.417	68.824	41.199	0.00	0.00
ATOM	815	CH2	TRP	X	52	40.765	67.969	42.995	0.00	0.00
ATOM	816	HH2	TRP	X	52	40.466	67.042	42.528	0.00	0.00
ATOM	817	CZ3	TRP	X	52	40.553	68.150	44.384	0.00	0.00
ATOM	818	HZ3	TRP	X	52	40.371	67.251	44.955	0.00	0.00
ATOM	819	CE3	TRP	X	52	40.762	69.382	45.000	0.00	0.00
ATOM	820	HE3	TRP	X	52	40.664	69.478	46.071	0.00	0.00
ATOM	821	CD2	TRP	X	52	41.205	70.516	44.219	0.00	0.00
ATOM	822	C	TRP	X	52	40.316	74.669	45.481	0.00	0.00
ATOM	823	O	TRP	X	52	39.756	74.705	44.363	0.00	0.00
ATOM	824	N	SER	X	53	40.909	75.724	45.987	0.00	0.00
ATOM	825	H	SER	X	53	41.152	75.681	46.967	0.00	0.00
ATOM	826	CA	SER	X	53	41.390	76.854	45.189	0.00	0.00
ATOM	827	HA	SER	X	53	40.672	77.107	44.409	0.00	0.00
ATOM	828	CB	SER	X	53	41.720	78.051	46.159	0.00	0.00
ATOM	829	HB2	SER	X	53	42.326	77.689	46.989	0.00	0.00
ATOM	830	HB3	SER	X	53	42.146	78.922	45.662	0.00	0.00
ATOM	831	OG	SER	X	53	40.508	78.574	46.710	0.00	0.00
ATOM	832	HG	SER	X	53	40.726	79.387	47.171	0.00	0.00
ATOM	833	C	SER	X	53	42.645	76.507	44.357	0.00	0.00
ATOM	834	O	SER	X	53	43.283	75.527	44.633	0.00	0.00
ATOM	835	N	GLY	X	54	42.883	77.260	43.283	0.00	0.00
ATOM	836	H	GLY	X	54	42.198	77.911	42.927	0.00	0.00
ATOM	837	CA	GLY	X	54	44.120	77.312	42.529	0.00	0.00
ATOM	838	HA2	GLY	X	54	44.139	78.330	42.085	0.00	0.00

ATOM	839	HA3	GLY	X	54	44.991	77.258	43.097	0.00	0.00
ATOM	840	C	GLY	X	54	44.105	76.345	41.373	0.00	0.00
ATOM	841	O	GLY	X	54	43.260	76.388	40.482	0.00	0.00
ATOM	842	N	VAL	X	55	45.078	75.432	41.309	0.00	0.00
ATOM	843	H	VAL	X	55	45.859	75.574	41.935	0.00	0.00
ATOM	844	CA	VAL	X	55	45.169	74.319	40.321	0.00	0.00
ATOM	845	HA	VAL	X	55	44.170	73.893	40.225	0.00	0.00
ATOM	846	CB	VAL	X	55	45.585	74.981	38.952	0.00	0.00
ATOM	847	HB	VAL	X	55	44.740	75.550	38.565	0.00	0.00
ATOM	848	CG1	VAL	X	55	46.868	75.913	39.122	0.00	0.00
ATOM	849	HG11	VAL	X	55	47.666	75.306	39.548	0.00	0.00
ATOM	850	HG12	VAL	X	55	47.147	76.330	38.155	0.00	0.00
ATOM	851	HG13	VAL	X	55	46.678	76.847	39.651	0.00	0.00
ATOM	852	CG2	VAL	X	55	45.988	73.893	37.897	0.00	0.00
ATOM	853	HG21	VAL	X	55	46.006	74.360	36.913	0.00	0.00
ATOM	854	HG22	VAL	X	55	46.897	73.403	38.247	0.00	0.00
ATOM	855	HG23	VAL	X	55	45.168	73.177	37.847	0.00	0.00
ATOM	856	C	VAL	X	55	46.134	73.258	40.798	0.00	0.00
ATOM	857	O	VAL	X	55	47.374	73.469	40.923	0.00	0.00
ATOM	858	N	VAL	X	56	45.733	71.986	40.893	0.00	0.00
ATOM	859	H	VAL	X	56	44.740	71.912	40.720	0.00	0.00
ATOM	860	CA	VAL	X	56	46.476	70.838	41.454	0.00	0.00
ATOM	861	HA	VAL	X	56	47.103	71.166	42.283	0.00	0.00
ATOM	862	CB	VAL	X	56	45.575	69.704	42.102	0.00	0.00
ATOM	863	HB	VAL	X	56	44.677	69.781	41.489	0.00	0.00
ATOM	864	CG1	VAL	X	56	46.204	68.335	42.074	0.00	0.00
ATOM	865	HG11	VAL	X	56	47.160	68.498	42.572	0.00	0.00
ATOM	866	HG12	VAL	X	56	45.576	67.729	42.727	0.00	0.00
ATOM	867	HG13	VAL	X	56	46.214	67.955	41.052	0.00	0.00
ATOM	868	CG2	VAL	X	56	45.239	69.939	43.626	0.00	0.00
ATOM	869	HG21	VAL	X	56	44.729	70.897	43.729	0.00	0.00
ATOM	870	HG22	VAL	X	56	44.704	69.099	44.069	0.00	0.00
ATOM	871	HG23	VAL	X	56	46.150	69.938	44.224	0.00	0.00
ATOM	872	C	VAL	X	56	47.467	70.332	40.347	0.00	0.00
ATOM	873	O	VAL	X	56	47.045	69.885	39.296	0.00	0.00
ATOM	874	N	ASP	X	57	48.761	70.341	40.676	0.00	0.00
ATOM	875	H	ASP	X	57	48.901	70.642	41.630	0.00	0.00
ATOM	876	CA	ASP	X	57	49.895	69.954	39.749	0.00	0.00
ATOM	877	HA	ASP	X	57	49.743	70.341	38.742	0.00	0.00
ATOM	878	CB	ASP	X	57	51.187	70.427	40.406	0.00	0.00
ATOM	879	HB2	ASP	X	57	50.992	71.362	40.931	0.00	0.00
ATOM	880	HB3	ASP	X	57	51.362	69.688	41.187	0.00	0.00
ATOM	881	CG	ASP	X	57	52.347	70.619	39.372	0.00	0.00
ATOM	882	OD1	ASP	X	57	52.364	71.620	38.587	0.00	0.00
ATOM	883	OD2	ASP	X	57	53.238	69.728	39.278	0.00	0.00
ATOM	884	C	ASP	X	57	49.830	68.329	39.584	0.00	0.00
ATOM	885	O	ASP	X	57	50.347	67.568	40.444	0.00	0.00
ATOM	886	N	ALA	X	58	49.061	67.933	38.571	0.00	0.00
ATOM	887	H	ALA	X	58	48.736	68.659	37.948	0.00	0.00
ATOM	888	CA	ALA	X	58	48.777	66.551	38.206	0.00	0.00
ATOM	889	HA	ALA	X	58	48.874	65.982	39.131	0.00	0.00
ATOM	890	CB	ALA	X	58	47.404	66.549	37.550	0.00	0.00
ATOM	891	HB1	ALA	X	58	46.723	67.225	38.068	0.00	0.00
ATOM	892	HB2	ALA	X	58	47.369	66.781	36.486	0.00	0.00
ATOM	893	HB3	ALA	X	58	47.037	65.523	37.552	0.00	0.00
ATOM	894	C	ALA	X	58	49.901	66.020	37.310	0.00	0.00
ATOM	895	O	ALA	X	58	49.658	65.440	36.267	0.00	0.00
ATOM	896	N	THR	X	59	51.148	66.201	37.780	0.00	0.00
ATOM	897	H	THR	X	59	51.315	66.754	38.608	0.00	0.00
ATOM	898	CA	THR	X	59	52.389	65.841	37.019	0.00	0.00
ATOM	899	HA	THR	X	59	52.019	65.695	36.004	0.00	0.00
ATOM	900	CB	THR	X	59	53.375	67.039	36.907	0.00	0.00
ATOM	901	HB	THR	X	59	54.258	66.815	36.309	0.00	0.00
ATOM	902	CG2	THR	X	59	52.795	68.309	36.391	0.00	0.00
ATOM	903	HG21	THR	X	59	53.602	69.040	36.348	0.00	0.00
ATOM	904	HG22	THR	X	59	52.363	68.221	35.394	0.00	0.00
ATOM	905	HG23	THR	X	59	52.060	68.692	37.100	0.00	0.00
ATOM	906	OG1	THR	X	59	53.748	67.305	38.283	0.00	0.00
ATOM	907	HG1	THR	X	59	53.646	68.213	38.577	0.00	0.00
ATOM	908	C	THR	X	59	53.130	64.650	37.505	0.00	0.00

ATOM	909	O	THR	X	59	54.010	64.167	36.861	0.00	0.00
ATOM	910	N	THR	X	60	52.705	64.169	38.648	0.00	0.00
ATOM	911	H	THR	X	60	51.920	64.683	39.021	0.00	0.00
ATOM	912	CA	THR	X	60	53.436	63.178	39.428	0.00	0.00
ATOM	913	HA	THR	X	60	53.734	62.406	38.718	0.00	0.00
ATOM	914	CB	THR	X	60	54.638	63.869	40.096	0.00	0.00
ATOM	915	HB	THR	X	60	55.252	64.325	39.319	0.00	0.00
ATOM	916	CG2	THR	X	60	54.333	64.859	41.204	0.00	0.00
ATOM	917	HG21	THR	X	60	53.725	65.623	40.721	0.00	0.00
ATOM	918	HG22	THR	X	60	53.844	64.350	42.035	0.00	0.00
ATOM	919	HG23	THR	X	60	55.278	65.261	41.569	0.00	0.00
ATOM	920	OG1	THR	X	60	55.531	62.927	40.669	0.00	0.00
ATOM	921	HG1	THR	X	60	56.376	63.345	40.847	0.00	0.00
ATOM	922	C	THR	X	60	52.580	62.526	40.421	0.00	0.00
ATOM	923	O	THR	X	60	51.629	63.069	40.862	0.00	0.00
ATOM	924	N	PHE	X	61	52.936	61.338	40.943	0.00	0.00
ATOM	925	H	PHE	X	61	53.865	61.117	40.613	0.00	0.00
ATOM	926	CA	PHE	X	61	52.299	60.632	42.116	0.00	0.00
ATOM	927	HA	PHE	X	61	51.268	60.975	42.200	0.00	0.00
ATOM	928	CB	PHE	X	61	52.292	59.148	41.877	0.00	0.00
ATOM	929	HB2	PHE	X	61	52.112	58.959	40.819	0.00	0.00
ATOM	930	HB3	PHE	X	61	53.306	58.826	42.111	0.00	0.00
ATOM	931	CG	PHE	X	61	51.284	58.344	42.603	0.00	0.00
ATOM	932	CD1	PHE	X	61	51.539	57.739	43.844	0.00	0.00
ATOM	933	HD1	PHE	X	61	52.538	57.712	44.253	0.00	0.00
ATOM	934	CE1	PHE	X	61	50.500	57.164	44.611	0.00	0.00
ATOM	935	HE1	PHE	X	61	50.669	56.589	45.509	0.00	0.00
ATOM	936	CZ	PHE	X	61	49.160	57.211	44.122	0.00	0.00
ATOM	937	HZ	PHE	X	61	48.373	56.732	44.686	0.00	0.00
ATOM	938	CE2	PHE	X	61	48.948	57.734	42.834	0.00	0.00
ATOM	939	HE2	PHE	X	61	47.990	57.569	42.362	0.00	0.00
ATOM	940	CD2	PHE	X	61	49.981	58.313	42.114	0.00	0.00
ATOM	941	HD2	PHE	X	61	49.700	58.767	41.176	0.00	0.00
ATOM	942	C	PHE	X	61	52.876	61.134	43.434	0.00	0.00
ATOM	943	O	PHE	X	61	53.740	61.976	43.428	0.00	0.00
ATOM	944	N	GLN	X	62	52.337	60.591	44.561	0.00	0.00
ATOM	945	H	GLN	X	62	51.682	59.824	44.515	0.00	0.00
ATOM	946	CA	GLN	X	62	52.884	60.963	45.878	0.00	0.00
ATOM	947	HA	GLN	X	62	53.804	61.543	45.799	0.00	0.00
ATOM	948	CB	GLN	X	62	51.833	61.714	46.696	0.00	0.00
ATOM	949	HB2	GLN	X	62	50.978	61.040	46.744	0.00	0.00
ATOM	950	HB3	GLN	X	62	52.230	61.995	47.671	0.00	0.00
ATOM	951	CG	GLN	X	62	51.366	62.990	45.967	0.00	0.00
ATOM	952	HG2	GLN	X	62	51.124	62.871	44.910	0.00	0.00
ATOM	953	HG3	GLN	X	62	50.435	63.320	46.426	0.00	0.00
ATOM	954	CD	GLN	X	62	52.267	64.231	46.021	0.00	0.00
ATOM	955	OE1	GLN	X	62	52.210	64.986	46.987	0.00	0.00
ATOM	956	NE2	GLN	X	62	53.120	64.276	45.076	0.00	0.00
ATOM	957	HE21	GLN	X	62	53.763	65.047	44.966	0.00	0.00
ATOM	958	HE22	GLN	X	62	53.171	63.629	44.302	0.00	0.00
ATOM	959	C	GLN	X	62	53.322	59.677	46.610	0.00	0.00
ATOM	960	O	GLN	X	62	53.836	58.764	46.019	0.00	0.00
ATOM	961	N	SER	X	63	53.015	59.481	47.909	0.00	0.00
ATOM	962	H	SER	X	63	52.667	60.323	48.346	0.00	0.00
ATOM	963	CA	SER	X	63	53.037	58.251	48.628	0.00	0.00
ATOM	964	HA	SER	X	63	54.046	57.921	48.381	0.00	0.00
ATOM	965	CB	SER	X	63	53.076	58.485	50.152	0.00	0.00
ATOM	966	HB2	SER	X	63	52.009	58.608	50.336	0.00	0.00
ATOM	967	HB3	SER	X	63	53.417	57.547	50.590	0.00	0.00
ATOM	968	OG	SER	X	63	53.938	59.618	50.406	0.00	0.00
ATOM	969	HG	SER	X	63	53.518	60.298	50.937	0.00	0.00
ATOM	970	C	SER	X	63	52.043	57.154	48.152	0.00	0.00
ATOM	971	O	SER	X	63	50.839	57.355	47.825	0.00	0.00
ATOM	972	N	VAL	X	64	52.461	55.886	48.185	0.00	0.00
ATOM	973	H	VAL	X	64	53.385	55.710	48.551	0.00	0.00
ATOM	974	CA	VAL	X	64	51.520	54.760	48.016	0.00	0.00
ATOM	975	HA	VAL	X	64	50.600	55.000	47.482	0.00	0.00
ATOM	976	CB	VAL	X	64	52.187	53.637	47.152	0.00	0.00
ATOM	977	HB	VAL	X	64	53.170	53.450	47.584	0.00	0.00
ATOM	978	CG1	VAL	X	64	51.424	52.301	47.041	0.00	0.00

ATOM	979	HG11	VAL	X	64	51.567	51.838	48.017	0.00	0.00
ATOM	980	HG12	VAL	X	64	50.410	52.488	46.689	0.00	0.00
ATOM	981	HG13	VAL	X	64	51.868	51.658	46.281	0.00	0.00
ATOM	982	CG2	VAL	X	64	52.347	54.198	45.673	0.00	0.00
ATOM	983	HG21	VAL	X	64	51.388	54.524	45.270	0.00	0.00
ATOM	984	HG22	VAL	X	64	53.004	55.059	45.794	0.00	0.00
ATOM	985	HG23	VAL	X	64	52.736	53.394	45.049	0.00	0.00
ATOM	986	C	VAL	X	64	51.089	54.299	49.423	0.00	0.00
ATOM	987	O	VAL	X	64	51.745	54.605	50.389	0.00	0.00
ATOM	988	N	CYX	X	65	49.914	53.635	49.467	0.00	0.00
ATOM	989	H	CYX	X	65	49.616	53.341	48.548	0.00	0.00
ATOM	990	CA	CYX	X	65	49.365	53.164	50.737	0.00	0.00
ATOM	991	HA	CYX	X	65	49.335	54.044	51.380	0.00	0.00
ATOM	992	CB	CYX	X	65	47.947	52.568	50.709	0.00	0.00
ATOM	993	HB2	CYX	X	65	48.052	51.648	50.135	0.00	0.00
ATOM	994	HB3	CYX	X	65	47.648	52.370	51.738	0.00	0.00
ATOM	995	SG	CYX	X	65	46.741	53.645	49.798	0.00	0.00
ATOM	996	C	CYX	X	65	50.280	52.140	51.356	0.00	0.00
ATOM	997	O	CYX	X	65	50.731	51.185	50.659	0.00	0.00
ATOM	998	N	TYR	X	66	50.555	52.261	52.699	0.00	0.00
ATOM	999	H	TYR	X	66	50.148	53.074	53.139	0.00	0.00
ATOM	1000	CA	TYR	X	66	51.145	51.263	53.584	0.00	0.00
ATOM	1001	HA	TYR	X	66	52.232	51.251	53.504	0.00	0.00
ATOM	1002	CB	TYR	X	66	50.872	51.682	55.066	0.00	0.00
ATOM	1003	HB2	TYR	X	66	50.002	52.330	55.172	0.00	0.00
ATOM	1004	HB3	TYR	X	66	50.680	50.758	55.611	0.00	0.00
ATOM	1005	CG	TYR	X	66	52.097	52.336	55.566	0.00	0.00
ATOM	1006	CD1	TYR	X	66	52.149	53.736	55.715	0.00	0.00
ATOM	1007	HD1	TYR	X	66	51.243	54.290	55.517	0.00	0.00
ATOM	1008	CE1	TYR	X	66	53.313	54.350	56.201	0.00	0.00
ATOM	1009	HE1	TYR	X	66	53.338	55.424	56.303	0.00	0.00
ATOM	1010	CZ	TYR	X	66	54.410	53.590	56.545	0.00	0.00
ATOM	1011	OH	TYR	X	66	55.388	54.268	57.087	0.00	0.00
ATOM	1012	HH	TYR	X	66	55.375	55.205	56.878	0.00	0.00
ATOM	1013	CE2	TYR	X	66	54.440	52.182	56.427	0.00	0.00
ATOM	1014	HE2	TYR	X	66	55.226	51.606	56.891	0.00	0.00
ATOM	1015	CD2	TYR	X	66	53.262	51.573	55.889	0.00	0.00
ATOM	1016	HD2	TYR	X	66	53.335	50.519	55.664	0.00	0.00
ATOM	1017	C	TYR	X	66	50.580	49.813	53.241	0.00	0.00
ATOM	1018	O	TYR	X	66	49.380	49.739	52.957	0.00	0.00
ATOM	1019	N	GLN	X	67	51.428	48.825	53.466	0.00	0.00
ATOM	1020	H	GLN	X	67	52.175	48.979	54.129	0.00	0.00
ATOM	1021	CA	GLN	X	67	51.516	47.441	52.882	0.00	0.00
ATOM	1022	HA	GLN	X	67	50.623	46.862	53.117	0.00	0.00
ATOM	1023	CB	GLN	X	67	51.605	47.488	51.402	0.00	0.00
ATOM	1024	HB2	GLN	X	67	51.611	46.456	51.052	0.00	0.00
ATOM	1025	HB3	GLN	X	67	50.665	47.929	51.069	0.00	0.00
ATOM	1026	CG	GLN	X	67	52.856	48.240	50.845	0.00	0.00
ATOM	1027	HG2	GLN	X	67	52.791	49.296	51.107	0.00	0.00
ATOM	1028	HG3	GLN	X	67	53.777	47.758	51.172	0.00	0.00
ATOM	1029	CD	GLN	X	67	52.728	48.151	49.254	0.00	0.00
ATOM	1030	OE1	GLN	X	67	53.203	47.215	48.560	0.00	0.00
ATOM	1031	NE2	GLN	X	67	52.031	49.087	48.640	0.00	0.00
ATOM	1032	HE21	GLN	X	67	51.892	49.000	47.643	0.00	0.00
ATOM	1033	HE22	GLN	X	67	51.650	49.802	49.242	0.00	0.00
ATOM	1034	C	GLN	X	67	52.702	46.702	53.531	0.00	0.00
ATOM	1035	O	GLN	X	67	53.499	47.403	54.127	0.00	0.00
ATOM	1036	N	TYR	X	68	52.830	45.369	53.354	0.00	0.00
ATOM	1037	H	TYR	X	68	52.153	44.779	52.893	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.076	44.642	53.787	0.00	0.00
ATOM	1039	HA	TYR	X	68	54.611	45.249	54.518	0.00	0.00
ATOM	1040	CB	TYR	X	68	53.557	43.338	54.492	0.00	0.00
ATOM	1041	HB2	TYR	X	68	52.973	43.698	55.339	0.00	0.00
ATOM	1042	HB3	TYR	X	68	53.083	42.679	53.765	0.00	0.00
ATOM	1043	CG	TYR	X	68	54.572	42.419	55.149	0.00	0.00
ATOM	1044	CD1	TYR	X	68	54.955	42.513	56.526	0.00	0.00
ATOM	1045	HD1	TYR	X	68	54.560	43.352	57.080	0.00	0.00
ATOM	1046	CE1	TYR	X	68	55.788	41.558	57.115	0.00	0.00
ATOM	1047	HE1	TYR	X	68	56.011	41.648	58.168	0.00	0.00
ATOM	1048	CZ	TYR	X	68	56.354	40.561	56.320	0.00	0.00

ATOM	1049	OH	TYR	X	68	57.226	39.526	56.637	0.00	0.00
ATOM	1050	HH	TYR	X	68	57.539	39.544	57.544	0.00	0.00
ATOM	1051	CE2	TYR	X	68	56.104	40.508	54.915	0.00	0.00
ATOM	1052	HE2	TYR	X	68	56.574	39.739	54.320	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.217	41.444	54.316	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.950	41.314	53.277	0.00	0.00
ATOM	1055	C	TYR	X	68	54.979	44.424	52.593	0.00	0.00
ATOM	1056	O	TYR	X	68	54.574	44.031	51.474	0.00	0.00
ATOM	1057	N	VAL	X	69	56.257	44.728	52.729	0.00	0.00
ATOM	1058	H	VAL	X	69	56.573	45.063	53.628	0.00	0.00
ATOM	1059	CA	VAL	X	69	57.251	44.252	51.704	0.00	0.00
ATOM	1060	HA	VAL	X	69	56.777	44.355	50.728	0.00	0.00
ATOM	1061	CB	VAL	X	69	58.372	45.330	51.496	0.00	0.00
ATOM	1062	HB	VAL	X	69	59.142	44.836	50.902	0.00	0.00
ATOM	1063	CG1	VAL	X	69	57.952	46.512	50.596	0.00	0.00
ATOM	1064	HG11	VAL	X	69	57.638	46.221	49.593	0.00	0.00
ATOM	1065	HG12	VAL	X	69	57.085	46.976	51.066	0.00	0.00
ATOM	1066	HG13	VAL	X	69	58.768	47.228	50.495	0.00	0.00
ATOM	1067	CG2	VAL	X	69	59.037	45.691	52.867	0.00	0.00
ATOM	1068	HG21	VAL	X	69	59.044	44.873	53.589	0.00	0.00
ATOM	1069	HG22	VAL	X	69	60.027	46.067	52.613	0.00	0.00
ATOM	1070	HG23	VAL	X	69	58.441	46.480	53.326	0.00	0.00
ATOM	1071	C	VAL	X	69	57.934	42.866	52.008	0.00	0.00
ATOM	1072	O	VAL	X	69	58.244	42.633	53.171	0.00	0.00
ATOM	1073	N	ASP	X	70	58.228	42.064	50.969	0.00	0.00
ATOM	1074	H	ASP	X	70	57.828	42.314	50.076	0.00	0.00
ATOM	1075	CA	ASP	X	70	58.915	40.767	50.998	0.00	0.00
ATOM	1076	HA	ASP	X	70	58.285	39.994	51.440	0.00	0.00
ATOM	1077	CB	ASP	X	70	59.139	40.375	49.571	0.00	0.00
ATOM	1078	HB2	ASP	X	70	58.135	40.361	49.147	0.00	0.00
ATOM	1079	HB3	ASP	X	70	59.782	41.123	49.106	0.00	0.00
ATOM	1080	CG	ASP	X	70	59.740	38.990	49.278	0.00	0.00
ATOM	1081	OD1	ASP	X	70	60.049	38.241	50.200	0.00	0.00
ATOM	1082	OD2	ASP	X	70	59.855	38.746	48.092	0.00	0.00
ATOM	1083	C	ASP	X	70	60.184	40.616	51.827	0.00	0.00
ATOM	1084	O	ASP	X	70	61.342	40.990	51.406	0.00	0.00
ATOM	1085	N	THR	X	71	60.051	39.994	53.034	0.00	0.00
ATOM	1086	H	THR	X	71	59.118	39.903	53.409	0.00	0.00
ATOM	1087	CA	THR	X	71	61.188	39.661	53.927	0.00	0.00
ATOM	1088	HA	THR	X	71	62.000	40.386	53.963	0.00	0.00
ATOM	1089	CB	THR	X	71	60.675	39.665	55.403	0.00	0.00
ATOM	1090	HB	THR	X	71	61.582	39.490	55.983	0.00	0.00
ATOM	1091	CG2	THR	X	71	60.070	40.982	55.959	0.00	0.00
ATOM	1092	HG21	THR	X	71	60.756	41.811	55.785	0.00	0.00
ATOM	1093	HG22	THR	X	71	59.216	41.244	55.333	0.00	0.00
ATOM	1094	HG23	THR	X	71	60.026	40.952	57.048	0.00	0.00
ATOM	1095	OG1	THR	X	71	59.738	38.587	55.593	0.00	0.00
ATOM	1096	HG1	THR	X	71	58.962	38.838	56.099	0.00	0.00
ATOM	1097	C	THR	X	71	61.974	38.399	53.651	0.00	0.00
ATOM	1098	O	THR	X	71	63.008	38.178	54.255	0.00	0.00
ATOM	1099	N	LEU	X	72	61.638	37.686	52.539	0.00	0.00
ATOM	1100	H	LEU	X	72	60.907	38.027	51.932	0.00	0.00
ATOM	1101	CA	LEU	X	72	62.230	36.411	52.156	0.00	0.00
ATOM	1102	HA	LEU	X	72	62.789	36.155	53.056	0.00	0.00
ATOM	1103	CB	LEU	X	72	61.320	35.320	51.679	0.00	0.00
ATOM	1104	HB2	LEU	X	72	60.424	35.269	52.298	0.00	0.00
ATOM	1105	HB3	LEU	X	72	60.943	35.532	50.678	0.00	0.00
ATOM	1106	CG	LEU	X	72	62.129	33.942	51.714	0.00	0.00
ATOM	1107	HG	LEU	X	72	63.149	33.938	51.332	0.00	0.00
ATOM	1108	CD1	LEU	X	72	62.066	33.267	53.090	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.238	33.945	53.926	0.00	0.00
ATOM	1110	HD12	LEU	X	72	61.047	32.884	53.133	0.00	0.00
ATOM	1111	HD13	LEU	X	72	62.706	32.388	53.158	0.00	0.00
ATOM	1112	CD2	LEU	X	72	61.407	33.052	50.660	0.00	0.00
ATOM	1113	HD21	LEU	X	72	61.852	32.062	50.550	0.00	0.00
ATOM	1114	HD22	LEU	X	72	60.356	32.896	50.902	0.00	0.00
ATOM	1115	HD23	LEU	X	72	61.409	33.594	49.714	0.00	0.00
ATOM	1116	C	LEU	X	72	63.356	36.726	51.148	0.00	0.00
ATOM	1117	O	LEU	X	72	64.529	36.437	51.350	0.00	0.00
ATOM	1118	N	TYR	X	73	62.944	37.396	50.037	0.00	0.00

ATOM	1119	H	TYR	X	73	61.948	37.558	49.985	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.819	37.864	48.987	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.832	37.607	49.297	0.00	0.00
ATOM	1122	CB	TYR	X	73	63.414	37.060	47.696	0.00	0.00
ATOM	1123	HB2	TYR	X	73	62.496	37.425	47.235	0.00	0.00
ATOM	1124	HB3	TYR	X	73	64.179	37.277	46.951	0.00	0.00
ATOM	1125	CG	TYR	X	73	63.395	35.543	47.854	0.00	0.00
ATOM	1126	CD1	TYR	X	73	64.561	34.883	48.262	0.00	0.00
ATOM	1127	HD1	TYR	X	73	65.399	35.451	48.639	0.00	0.00
ATOM	1128	CE1	TYR	X	73	64.463	33.450	48.173	0.00	0.00
ATOM	1129	HE1	TYR	X	73	65.225	32.852	48.650	0.00	0.00
ATOM	1130	CZ	TYR	X	73	63.387	32.722	47.658	0.00	0.00
ATOM	1131	OH	TYR	X	73	63.427	31.350	47.665	0.00	0.00
ATOM	1132	HH	TYR	X	73	62.575	31.046	47.345	0.00	0.00
ATOM	1133	CE2	TYR	X	73	62.246	33.438	47.189	0.00	0.00
ATOM	1134	HE2	TYR	X	73	61.429	32.970	46.662	0.00	0.00
ATOM	1135	CD2	TYR	X	73	62.319	34.848	47.337	0.00	0.00
ATOM	1136	HD2	TYR	X	73	61.516	35.515	47.059	0.00	0.00
ATOM	1137	C	TYR	X	73	63.640	39.423	48.860	0.00	0.00
ATOM	1138	O	TYR	X	73	62.919	39.869	47.955	0.00	0.00
ATOM	1139	N	PRO	X	74	64.093	40.334	49.802	0.00	0.00
ATOM	1140	CD	PRO	X	74	64.736	40.005	51.045	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.784	39.756	50.883	0.00	0.00
ATOM	1142	HD3	PRO	X	74	64.214	39.249	51.632	0.00	0.00
ATOM	1143	CG	PRO	X	74	64.708	41.337	51.859	0.00	0.00
ATOM	1144	HG2	PRO	X	74	65.509	41.369	52.598	0.00	0.00
ATOM	1145	HG3	PRO	X	74	63.748	41.417	52.369	0.00	0.00
ATOM	1146	CB	PRO	X	74	64.916	42.381	50.731	0.00	0.00
ATOM	1147	HB2	PRO	X	74	65.971	42.447	50.465	0.00	0.00
ATOM	1148	HB3	PRO	X	74	64.520	43.381	50.906	0.00	0.00
ATOM	1149	CA	PRO	X	74	64.167	41.770	49.498	0.00	0.00
ATOM	1150	HA	PRO	X	74	63.087	41.915	49.462	0.00	0.00
ATOM	1151	C	PRO	X	74	64.851	42.063	48.185	0.00	0.00
ATOM	1152	O	PRO	X	74	65.865	41.446	47.828	0.00	0.00
ATOM	1153	N	GLY	X	75	64.284	42.998	47.538	0.00	0.00
ATOM	1154	H	GLY	X	75	63.460	43.399	47.964	0.00	0.00
ATOM	1155	CA	GLY	X	75	64.859	43.670	46.386	0.00	0.00
ATOM	1156	HA2	GLY	X	75	64.196	44.489	46.242	0.00	0.00
ATOM	1157	HA3	GLY	X	75	65.833	44.075	46.543	0.00	0.00
ATOM	1158	C	GLY	X	75	64.795	42.753	45.162	0.00	0.00
ATOM	1159	O	GLY	X	75	65.602	42.884	44.276	0.00	0.00
ATOM	1160	N	PHE	X	76	63.885	41.804	45.096	0.00	0.00
ATOM	1161	H	PHE	X	76	63.280	41.694	45.898	0.00	0.00
ATOM	1162	CA	PHE	X	76	63.844	40.689	44.092	0.00	0.00
ATOM	1163	HA	PHE	X	76	64.772	40.716	43.520	0.00	0.00
ATOM	1164	CB	PHE	X	76	63.666	39.329	44.721	0.00	0.00
ATOM	1165	HB2	PHE	X	76	64.662	39.088	45.093	0.00	0.00
ATOM	1166	HB3	PHE	X	76	62.962	39.371	45.552	0.00	0.00
ATOM	1167	CG	PHE	X	76	63.240	38.194	43.804	0.00	0.00
ATOM	1168	CD1	PHE	X	76	64.111	37.680	42.756	0.00	0.00
ATOM	1169	HD1	PHE	X	76	65.148	37.981	42.745	0.00	0.00
ATOM	1170	CE1	PHE	X	76	63.666	36.547	42.054	0.00	0.00
ATOM	1171	HE1	PHE	X	76	64.295	36.086	41.307	0.00	0.00
ATOM	1172	CZ	PHE	X	76	62.331	36.067	42.187	0.00	0.00
ATOM	1173	HZ	PHE	X	76	61.963	35.371	41.447	0.00	0.00
ATOM	1174	CE2	PHE	X	76	61.454	36.613	43.076	0.00	0.00
ATOM	1175	HE2	PHE	X	76	60.411	36.345	43.156	0.00	0.00
ATOM	1176	CD2	PHE	X	76	61.964	37.623	43.947	0.00	0.00
ATOM	1177	HD2	PHE	X	76	61.301	38.038	44.692	0.00	0.00
ATOM	1178	C	PHE	X	76	62.640	40.951	43.049	0.00	0.00
ATOM	1179	O	PHE	X	76	61.502	41.307	43.438	0.00	0.00
ATOM	1180	N	GLU	X	77	62.856	40.717	41.752	0.00	0.00
ATOM	1181	H	GLU	X	77	63.839	40.634	41.536	0.00	0.00
ATOM	1182	CA	GLU	X	77	61.972	41.082	40.647	0.00	0.00
ATOM	1183	HA	GLU	X	77	61.910	42.170	40.618	0.00	0.00
ATOM	1184	CB	GLU	X	77	62.532	40.595	39.354	0.00	0.00
ATOM	1185	HB2	GLU	X	77	62.883	39.581	39.546	0.00	0.00
ATOM	1186	HB3	GLU	X	77	61.716	40.629	38.631	0.00	0.00
ATOM	1187	CG	GLU	X	77	63.657	41.538	38.945	0.00	0.00
ATOM	1188	HG2	GLU	X	77	63.308	42.535	38.677	0.00	0.00

ATOM	1189	HG3	GLU	X	77	64.266	41.682	39.837	0.00	0.00
ATOM	1190	CD	GLU	X	77	64.417	40.915	37.693	0.00	0.00
ATOM	1191	OE1	GLU	X	77	64.688	39.684	37.717	0.00	0.00
ATOM	1192	OE2	GLU	X	77	64.643	41.611	36.688	0.00	0.00
ATOM	1193	C	GLU	X	77	60.554	40.535	40.821	0.00	0.00
ATOM	1194	O	GLU	X	77	59.656	41.320	40.593	0.00	0.00
ATOM	1195	N	GLY	X	78	60.321	39.317	41.271	0.00	0.00
ATOM	1196	H	GLY	X	78	61.093	38.760	41.610	0.00	0.00
ATOM	1197	CA	GLY	X	78	58.936	38.788	41.389	0.00	0.00
ATOM	1198	HA2	GLY	X	78	58.522	38.896	40.430	0.00	0.00
ATOM	1199	HA3	GLY	X	78	59.094	37.694	41.579	0.00	0.00
ATOM	1200	C	GLY	X	78	57.980	39.361	42.413	0.00	0.00
ATOM	1201	O	GLY	X	78	56.814	39.071	42.312	0.00	0.00
ATOM	1202	N	THR	X	79	58.499	40.234	43.266	0.00	0.00
ATOM	1203	H	THR	X	79	59.507	40.301	43.252	0.00	0.00
ATOM	1204	CA	THR	X	79	57.689	41.033	44.226	0.00	0.00
ATOM	1205	HA	THR	X	79	56.621	40.968	44.018	0.00	0.00
ATOM	1206	CB	THR	X	79	58.029	40.552	45.632	0.00	0.00
ATOM	1207	HB	THR	X	79	57.825	41.346	46.350	0.00	0.00
ATOM	1208	CG2	THR	X	79	57.145	39.339	45.932	0.00	0.00
ATOM	1209	HG21	THR	X	79	56.103	39.649	46.013	0.00	0.00
ATOM	1210	HG22	THR	X	79	57.049	38.638	45.102	0.00	0.00
ATOM	1211	HG23	THR	X	79	57.447	38.820	46.841	0.00	0.00
ATOM	1212	OG1	THR	X	79	59.424	40.183	45.641	0.00	0.00
ATOM	1213	HG1	THR	X	79	59.630	39.513	46.297	0.00	0.00
ATOM	1214	C	THR	X	79	57.963	42.532	44.058	0.00	0.00
ATOM	1215	O	THR	X	79	57.032	43.317	44.187	0.00	0.00
ATOM	1216	N	GLU	X	80	59.143	42.984	43.550	0.00	0.00
ATOM	1217	H	GLU	X	80	59.919	42.347	43.438	0.00	0.00
ATOM	1218	CA	GLU	X	80	59.385	44.384	43.181	0.00	0.00
ATOM	1219	HA	GLU	X	80	59.042	45.047	43.976	0.00	0.00
ATOM	1220	CB	GLU	X	80	60.876	44.561	42.845	0.00	0.00
ATOM	1221	HB2	GLU	X	80	61.177	43.676	42.285	0.00	0.00
ATOM	1222	HB3	GLU	X	80	60.977	45.477	42.263	0.00	0.00
ATOM	1223	CG	GLU	X	80	61.734	44.648	44.021	0.00	0.00
ATOM	1224	HG2	GLU	X	80	61.397	43.937	44.775	0.00	0.00
ATOM	1225	HG3	GLU	X	80	62.758	44.350	43.793	0.00	0.00
ATOM	1226	CD	GLU	X	80	61.814	46.044	44.683	0.00	0.00
ATOM	1227	OE1	GLU	X	80	62.948	46.587	44.642	0.00	0.00
ATOM	1228	OE2	GLU	X	80	60.841	46.612	45.247	0.00	0.00
ATOM	1229	C	GLU	X	80	58.568	44.843	42.021	0.00	0.00
ATOM	1230	O	GLU	X	80	58.528	45.989	41.640	0.00	0.00
ATOM	1231	N	MET	X	81	57.850	43.942	41.326	0.00	0.00
ATOM	1232	H	MET	X	81	58.268	43.030	41.442	0.00	0.00
ATOM	1233	CA	MET	X	81	56.837	44.233	40.293	0.00	0.00
ATOM	1234	HA	MET	X	81	57.201	44.999	39.608	0.00	0.00
ATOM	1235	CB	MET	X	81	56.514	42.982	39.387	0.00	0.00
ATOM	1236	HB2	MET	X	81	55.821	43.278	38.599	0.00	0.00
ATOM	1237	HB3	MET	X	81	57.377	42.530	38.899	0.00	0.00
ATOM	1238	CG	MET	X	81	55.835	41.793	40.142	0.00	0.00
ATOM	1239	HG2	MET	X	81	56.299	41.700	41.124	0.00	0.00
ATOM	1240	HG3	MET	X	81	54.841	41.953	40.561	0.00	0.00
ATOM	1241	SD	MET	X	81	55.867	40.219	39.333	0.00	0.00
ATOM	1242	CE	MET	X	81	54.448	39.589	40.247	0.00	0.00
ATOM	1243	HE1	MET	X	81	54.751	39.646	41.293	0.00	0.00
ATOM	1244	HE2	MET	X	81	53.543	40.114	39.942	0.00	0.00
ATOM	1245	HE3	MET	X	81	54.351	38.513	40.104	0.00	0.00
ATOM	1246	C	MET	X	81	55.470	44.838	40.826	0.00	0.00
ATOM	1247	O	MET	X	81	54.733	45.453	40.049	0.00	0.00
ATOM	1248	N	TRP	X	82	55.285	44.622	42.125	0.00	0.00
ATOM	1249	H	TRP	X	82	56.073	44.131	42.521	0.00	0.00
ATOM	1250	CA	TRP	X	82	54.085	45.047	42.877	0.00	0.00
ATOM	1251	HA	TRP	X	82	53.459	45.759	42.341	0.00	0.00
ATOM	1252	CB	TRP	X	82	53.233	43.845	43.330	0.00	0.00
ATOM	1253	HB2	TRP	X	82	53.934	43.160	43.808	0.00	0.00
ATOM	1254	HB3	TRP	X	82	52.399	44.032	44.006	0.00	0.00
ATOM	1255	CG	TRP	X	82	52.580	42.988	42.284	0.00	0.00
ATOM	1256	CD1	TRP	X	82	52.345	41.654	42.492	0.00	0.00
ATOM	1257	HD1	TRP	X	82	52.727	41.097	43.334	0.00	0.00
ATOM	1258	NE1	TRP	X	82	51.530	41.207	41.517	0.00	0.00

ATOM	1259	HE1	TRP	X	82	51.306	40.225	41.449	0.00	0.00
ATOM	1260	CE2	TRP	X	82	51.134	42.174	40.640	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	50.288	42.210	39.551	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	49.826	41.278	39.258	0.00	0.00
ATOM	1263	CH2	TRP	X	82	49.989	43.415	38.952	0.00	0.00
ATOM	1264	HH2	TRP	X	82	49.301	43.407	38.119	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	50.748	44.508	39.249	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	50.631	45.442	38.719	0.00	0.00
ATOM	1267	CE3	TRP	X	82	51.612	44.544	40.390	0.00	0.00
ATOM	1268	HE3	TRP	X	82	52.065	45.498	40.617	0.00	0.00
ATOM	1269	CD2	TRP	X	82	51.815	43.336	41.126	0.00	0.00
ATOM	1270	C	TRP	X	82	54.514	45.980	43.988	0.00	0.00
ATOM	1271	O	TRP	X	82	53.828	46.987	44.181	0.00	0.00
ATOM	1272	N	ASN	X	83	55.506	45.644	44.800	0.00	0.00
ATOM	1273	H	ASN	X	83	55.927	44.726	44.815	0.00	0.00
ATOM	1274	CA	ASN	X	83	56.009	46.604	45.742	0.00	0.00
ATOM	1275	HA	ASN	X	83	55.237	46.811	46.483	0.00	0.00
ATOM	1276	CB	ASN	X	83	57.089	45.949	46.531	0.00	0.00
ATOM	1277	HB2	ASN	X	83	57.819	45.471	45.878	0.00	0.00
ATOM	1278	HB3	ASN	X	83	57.653	46.688	47.100	0.00	0.00
ATOM	1279	CG	ASN	X	83	56.510	44.922	47.636	0.00	0.00
ATOM	1280	OD1	ASN	X	83	57.215	43.894	47.789	0.00	0.00
ATOM	1281	ND2	ASN	X	83	55.404	45.163	48.382	0.00	0.00
ATOM	1282	HD21	ASN	X	83	55.051	44.496	49.054	0.00	0.00
ATOM	1283	HD22	ASN	X	83	54.875	46.018	48.290	0.00	0.00
ATOM	1284	C	ASN	X	83	56.359	47.964	45.026	0.00	0.00
ATOM	1285	O	ASN	X	83	56.852	47.991	43.905	0.00	0.00
ATOM	1286	N	PRO	X	84	56.065	49.121	45.652	0.00	0.00
ATOM	1287	CD	PRO	X	84	55.521	49.323	47.011	0.00	0.00
ATOM	1288	HD2	PRO	X	84	56.209	48.961	47.775	0.00	0.00
ATOM	1289	HD3	PRO	X	84	54.579	48.814	47.217	0.00	0.00
ATOM	1290	CG	PRO	X	84	55.417	50.814	47.229	0.00	0.00
ATOM	1291	HG2	PRO	X	84	56.383	51.193	47.563	0.00	0.00
ATOM	1292	HG3	PRO	X	84	54.588	51.127	47.863	0.00	0.00
ATOM	1293	CB	PRO	X	84	55.267	51.321	45.810	0.00	0.00
ATOM	1294	HB2	PRO	X	84	55.650	52.339	45.734	0.00	0.00
ATOM	1295	HB3	PRO	X	84	54.215	51.253	45.532	0.00	0.00
ATOM	1296	CA	PRO	X	84	56.105	50.397	44.916	0.00	0.00
ATOM	1297	HA	PRO	X	84	55.564	50.319	43.973	0.00	0.00
ATOM	1298	C	PRO	X	84	57.491	50.931	44.758	0.00	0.00
ATOM	1299	O	PRO	X	84	58.340	50.658	45.527	0.00	0.00
ATOM	1300	N	ASN	X	85	57.653	51.739	43.758	0.00	0.00
ATOM	1301	H	ASN	X	85	56.878	51.923	43.138	0.00	0.00
ATOM	1302	CA	ASN	X	85	58.868	52.546	43.595	0.00	0.00
ATOM	1303	HA	ASN	X	85	59.706	51.970	43.985	0.00	0.00
ATOM	1304	CB	ASN	X	85	58.946	52.661	42.008	0.00	0.00
ATOM	1305	HB2	ASN	X	85	59.936	53.081	41.830	0.00	0.00
ATOM	1306	HB3	ASN	X	85	58.933	51.666	41.563	0.00	0.00
ATOM	1307	CG	ASN	X	85	57.921	53.573	41.381	0.00	0.00
ATOM	1308	OD1	ASN	X	85	56.713	53.330	41.526	0.00	0.00
ATOM	1309	ND2	ASN	X	85	58.322	54.633	40.713	0.00	0.00
ATOM	1310	HD21	ASN	X	85	57.656	55.308	40.366	0.00	0.00
ATOM	1311	HD22	ASN	X	85	59.291	54.869	40.551	0.00	0.00
ATOM	1312	C	ASN	X	85	58.742	54.013	44.236	0.00	0.00
ATOM	1313	O	ASN	X	85	59.553	54.858	44.029	0.00	0.00
ATOM	1314	N	ARG	X	86	57.628	54.288	44.905	0.00	0.00
ATOM	1315	H	ARG	X	86	56.961	53.531	44.955	0.00	0.00
ATOM	1316	CA	ARG	X	86	57.346	55.552	45.733	0.00	0.00
ATOM	1317	HA	ARG	X	86	58.038	56.346	45.451	0.00	0.00
ATOM	1318	CB	ARG	X	86	55.887	56.097	45.499	0.00	0.00
ATOM	1319	HB2	ARG	X	86	55.234	55.224	45.490	0.00	0.00
ATOM	1320	HB3	ARG	X	86	55.518	56.789	46.256	0.00	0.00
ATOM	1321	CG	ARG	X	86	55.661	56.655	44.070	0.00	0.00
ATOM	1322	HG2	ARG	X	86	55.772	55.880	43.312	0.00	0.00
ATOM	1323	HG3	ARG	X	86	54.640	57.029	43.995	0.00	0.00
ATOM	1324	CD	ARG	X	86	56.527	57.787	43.740	0.00	0.00
ATOM	1325	HD2	ARG	X	86	57.597	57.586	43.785	0.00	0.00
ATOM	1326	HD3	ARG	X	86	56.265	58.143	42.743	0.00	0.00
ATOM	1327	NE	ARG	X	86	56.390	58.940	44.689	0.00	0.00
ATOM	1328	HE	ARG	X	86	56.034	58.673	45.595	0.00	0.00

ATOM	1329	CZ	ARG	X	86	56.576	60.247	44.543	0.00	0.00
ATOM	1330	NH1	ARG	X	86	56.709	60.747	43.356	0.00	0.00
ATOM	1331	HH11	ARG	X	86	56.768	60.049	42.628	0.00	0.00
ATOM	1332	HH12	ARG	X	86	56.787	61.744	43.220	0.00	0.00
ATOM	1333	NH2	ARG	X	86	56.459	61.116	45.554	0.00	0.00
ATOM	1334	HH21	ARG	X	86	56.346	60.746	46.487	0.00	0.00
ATOM	1335	HH22	ARG	X	86	56.590	62.108	45.411	0.00	0.00
ATOM	1336	C	ARG	X	86	57.514	55.309	47.253	0.00	0.00
ATOM	1337	O	ARG	X	86	57.431	54.160	47.666	0.00	0.00
ATOM	1338	N	GLU	X	87	57.558	56.322	48.119	0.00	0.00
ATOM	1339	H	GLU	X	87	57.630	57.265	47.763	0.00	0.00
ATOM	1340	CA	GLU	X	87	57.426	56.137	49.550	0.00	0.00
ATOM	1341	HA	GLU	X	87	58.115	55.386	49.937	0.00	0.00
ATOM	1342	CB	GLU	X	87	57.865	57.433	50.296	0.00	0.00
ATOM	1343	HB2	GLU	X	87	57.398	58.215	49.698	0.00	0.00
ATOM	1344	HB3	GLU	X	87	57.515	57.390	51.328	0.00	0.00
ATOM	1345	CG	GLU	X	87	59.372	57.649	50.219	0.00	0.00
ATOM	1346	HG2	GLU	X	87	59.942	56.815	50.630	0.00	0.00
ATOM	1347	HG3	GLU	X	87	59.599	57.748	49.157	0.00	0.00
ATOM	1348	CD	GLU	X	87	59.765	58.888	50.963	0.00	0.00
ATOM	1349	OE1	GLU	X	87	60.213	59.884	50.318	0.00	0.00
ATOM	1350	OE2	GLU	X	87	59.545	58.885	52.224	0.00	0.00
ATOM	1351	C	GLU	X	87	56.006	55.780	50.069	0.00	0.00
ATOM	1352	O	GLU	X	87	55.020	55.903	49.319	0.00	0.00
ATOM	1353	N	LEU	X	88	55.890	55.362	51.359	0.00	0.00
ATOM	1354	H	LEU	X	88	56.658	55.345	52.016	0.00	0.00
ATOM	1355	CA	LEU	X	88	54.640	54.948	51.943	0.00	0.00
ATOM	1356	HA	LEU	X	88	53.889	54.827	51.162	0.00	0.00
ATOM	1357	CB	LEU	X	88	54.832	53.600	52.713	0.00	0.00
ATOM	1358	HB2	LEU	X	88	55.408	53.716	53.632	0.00	0.00
ATOM	1359	HB3	LEU	X	88	53.847	53.297	53.067	0.00	0.00
ATOM	1360	CG	LEU	X	88	55.319	52.404	51.840	0.00	0.00
ATOM	1361	HG	LEU	X	88	56.230	52.698	51.318	0.00	0.00
ATOM	1362	CD1	LEU	X	88	55.421	51.130	52.626	0.00	0.00
ATOM	1363	HD11	LEU	X	88	55.703	50.268	52.021	0.00	0.00
ATOM	1364	HD12	LEU	X	88	56.121	51.232	53.456	0.00	0.00
ATOM	1365	HD13	LEU	X	88	54.465	50.874	53.082	0.00	0.00
ATOM	1366	CD2	LEU	X	88	54.326	52.118	50.767	0.00	0.00
ATOM	1367	HD21	LEU	X	88	54.357	52.882	49.990	0.00	0.00
ATOM	1368	HD22	LEU	X	88	54.452	51.138	50.306	0.00	0.00
ATOM	1369	HD23	LEU	X	88	53.334	52.161	51.217	0.00	0.00
ATOM	1370	C	LEU	X	88	54.017	55.937	52.891	0.00	0.00
ATOM	1371	O	LEU	X	88	54.688	56.720	53.529	0.00	0.00
ATOM	1372	N	SER	X	89	52.659	56.009	52.905	0.00	0.00
ATOM	1373	H	SER	X	89	52.279	55.378	52.214	0.00	0.00
ATOM	1374	CA	SER	X	89	51.837	56.803	53.835	0.00	0.00
ATOM	1375	HA	SER	X	89	52.276	56.634	54.818	0.00	0.00
ATOM	1376	CB	SER	X	89	52.028	58.313	53.545	0.00	0.00
ATOM	1377	HB2	SER	X	89	53.090	58.533	53.651	0.00	0.00
ATOM	1378	HB3	SER	X	89	51.666	58.578	52.552	0.00	0.00
ATOM	1379	OG	SER	X	89	51.349	59.125	54.558	0.00	0.00
ATOM	1380	HG	SER	X	89	51.745	59.994	54.467	0.00	0.00
ATOM	1381	C	SER	X	89	50.374	56.296	53.861	0.00	0.00
ATOM	1382	O	SER	X	89	49.984	55.391	53.137	0.00	0.00
ATOM	1383	N	GLU	X	90	49.533	56.915	54.673	0.00	0.00
ATOM	1384	H	GLU	X	90	49.881	57.680	55.234	0.00	0.00
ATOM	1385	CA	GLU	X	90	48.050	56.772	54.695	0.00	0.00
ATOM	1386	HA	GLU	X	90	47.826	55.930	54.040	0.00	0.00
ATOM	1387	CB	GLU	X	90	47.584	56.380	56.104	0.00	0.00
ATOM	1388	HB2	GLU	X	90	47.922	57.113	56.837	0.00	0.00
ATOM	1389	HB3	GLU	X	90	46.500	56.440	56.193	0.00	0.00
ATOM	1390	CG	GLU	X	90	47.876	54.910	56.518	0.00	0.00
ATOM	1391	HG2	GLU	X	90	47.217	54.281	55.919	0.00	0.00
ATOM	1392	HG3	GLU	X	90	48.928	54.640	56.432	0.00	0.00
ATOM	1393	CD	GLU	X	90	47.565	54.707	58.031	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.504	54.078	58.368	0.00	0.00
ATOM	1395	OE2	GLU	X	90	48.299	55.146	58.940	0.00	0.00
ATOM	1396	C	GLU	X	90	47.445	58.092	54.139	0.00	0.00
ATOM	1397	O	GLU	X	90	46.273	58.396	54.358	0.00	0.00
ATOM	1398	N	ASP	X	91	48.251	58.894	53.466	0.00	0.00

ATOM	1399	H	ASP	X	91	49.219	58.605	53.486	0.00	0.00
ATOM	1400	CA	ASP	X	91	47.859	59.903	52.427	0.00	0.00
ATOM	1401	HA	ASP	X	91	46.778	59.803	52.323	0.00	0.00
ATOM	1402	CB	ASP	X	91	48.421	61.280	52.803	0.00	0.00
ATOM	1403	HB2	ASP	X	91	47.989	61.600	53.751	0.00	0.00
ATOM	1404	HB3	ASP	X	91	49.507	61.190	52.824	0.00	0.00
ATOM	1405	CG	ASP	X	91	48.146	62.367	51.715	0.00	0.00
ATOM	1406	OD1	ASP	X	91	48.840	63.371	51.789	0.00	0.00
ATOM	1407	OD2	ASP	X	91	47.234	62.236	50.871	0.00	0.00
ATOM	1408	C	ASP	X	91	48.343	59.311	51.034	0.00	0.00
ATOM	1409	O	ASP	X	91	49.535	59.383	50.879	0.00	0.00
ATOM	1410	N	CYX	X	92	47.476	58.617	50.350	0.00	0.00
ATOM	1411	H	CYX	X	92	46.505	58.736	50.600	0.00	0.00
ATOM	1412	CA	CYX	X	92	47.899	57.601	49.334	0.00	0.00
ATOM	1413	HA	CYX	X	92	48.790	57.961	48.821	0.00	0.00
ATOM	1414	CB	CYX	X	92	48.280	56.363	50.137	0.00	0.00
ATOM	1415	HB2	CYX	X	92	48.929	55.736	49.527	0.00	0.00
ATOM	1416	HB3	CYX	X	92	48.910	56.661	50.976	0.00	0.00
ATOM	1417	SG	CYX	X	92	46.901	55.387	50.807	0.00	0.00
ATOM	1418	C	CYX	X	92	46.813	57.319	48.338	0.00	0.00
ATOM	1419	O	CYX	X	92	47.161	56.682	47.290	0.00	0.00
ATOM	1420	N	LEU	X	93	45.497	57.784	48.537	0.00	0.00
ATOM	1421	H	LEU	X	93	45.325	58.407	49.313	0.00	0.00
ATOM	1422	CA	LEU	X	93	44.289	57.464	47.794	0.00	0.00
ATOM	1423	HA	LEU	X	93	44.319	56.527	47.237	0.00	0.00
ATOM	1424	CB	LEU	X	93	43.085	57.537	48.714	0.00	0.00
ATOM	1425	HB2	LEU	X	93	43.197	58.475	49.258	0.00	0.00
ATOM	1426	HB3	LEU	X	93	42.207	57.616	48.074	0.00	0.00
ATOM	1427	CG	LEU	X	93	43.042	56.422	49.726	0.00	0.00
ATOM	1428	HG	LEU	X	93	43.812	56.454	50.497	0.00	0.00
ATOM	1429	CD1	LEU	X	93	41.606	56.570	50.318	0.00	0.00
ATOM	1430	HD11	LEU	X	93	41.422	57.511	50.836	0.00	0.00
ATOM	1431	HD12	LEU	X	93	40.889	56.481	49.501	0.00	0.00
ATOM	1432	HD13	LEU	X	93	41.468	55.869	51.141	0.00	0.00
ATOM	1433	CD2	LEU	X	93	43.280	55.024	49.169	0.00	0.00
ATOM	1434	HD21	LEU	X	93	44.201	54.982	48.587	0.00	0.00
ATOM	1435	HD22	LEU	X	93	43.235	54.323	50.002	0.00	0.00
ATOM	1436	HD23	LEU	X	93	42.580	54.649	48.422	0.00	0.00
ATOM	1437	C	LEU	X	93	44.180	58.469	46.623	0.00	0.00
ATOM	1438	O	LEU	X	93	43.237	59.319	46.568	0.00	0.00
ATOM	1439	N	TYR	X	94	45.094	58.516	45.679	0.00	0.00
ATOM	1440	H	TYR	X	94	45.820	57.828	45.820	0.00	0.00
ATOM	1441	CA	TYR	X	94	45.126	59.281	44.509	0.00	0.00
ATOM	1442	HA	TYR	X	94	44.439	60.104	44.707	0.00	0.00
ATOM	1443	CB	TYR	X	94	46.555	59.826	44.278	0.00	0.00
ATOM	1444	HB2	TYR	X	94	47.316	59.045	44.275	0.00	0.00
ATOM	1445	HB3	TYR	X	94	46.674	60.158	43.246	0.00	0.00
ATOM	1446	CG	TYR	X	94	46.941	60.849	45.346	0.00	0.00
ATOM	1447	CD1	TYR	X	94	46.804	62.225	45.127	0.00	0.00
ATOM	1448	HD1	TYR	X	94	46.446	62.679	44.215	0.00	0.00
ATOM	1449	CE1	TYR	X	94	47.008	63.160	46.148	0.00	0.00
ATOM	1450	HE1	TYR	X	94	46.897	64.231	46.064	0.00	0.00
ATOM	1451	CZ	TYR	X	94	47.362	62.660	47.405	0.00	0.00
ATOM	1452	OH	TYR	X	94	47.444	63.542	48.468	0.00	0.00
ATOM	1453	HH	TYR	X	94	47.520	63.169	49.350	0.00	0.00
ATOM	1454	CE2	TYR	X	94	47.480	61.308	47.677	0.00	0.00
ATOM	1455	HE2	TYR	X	94	47.764	60.979	48.666	0.00	0.00
ATOM	1456	CD2	TYR	X	94	47.276	60.434	46.616	0.00	0.00
ATOM	1457	HD2	TYR	X	94	47.337	59.381	46.847	0.00	0.00
ATOM	1458	C	TYR	X	94	44.745	58.481	43.340	0.00	0.00
ATOM	1459	O	TYR	X	94	44.660	57.255	43.368	0.00	0.00
ATOM	1460	N	LEU	X	95	44.654	59.035	42.052	0.00	0.00
ATOM	1461	H	LEU	X	95	44.653	60.041	41.962	0.00	0.00
ATOM	1462	CA	LEU	X	95	44.523	58.278	40.821	0.00	0.00
ATOM	1463	HA	LEU	X	95	45.143	57.388	40.929	0.00	0.00
ATOM	1464	CB	LEU	X	95	43.131	57.789	40.665	0.00	0.00
ATOM	1465	HB2	LEU	X	95	43.118	57.017	39.895	0.00	0.00
ATOM	1466	HB3	LEU	X	95	42.908	57.315	41.620	0.00	0.00
ATOM	1467	CG	LEU	X	95	41.992	58.834	40.240	0.00	0.00
ATOM	1468	HG	LEU	X	95	41.903	59.614	40.997	0.00	0.00

ATOM	1469	CD1	LEU	X	95	42.173	59.571	38.936	0.00	0.00
ATOM	1470	HD11	LEU	X	95	43.161	60.014	38.808	0.00	0.00
ATOM	1471	HD12	LEU	X	95	41.994	58.889	38.105	0.00	0.00
ATOM	1472	HD13	LEU	X	95	41.391	60.326	38.870	0.00	0.00
ATOM	1473	CD2	LEU	X	95	40.667	58.099	40.181	0.00	0.00
ATOM	1474	HD21	LEU	X	95	39.811	58.772	40.126	0.00	0.00
ATOM	1475	HD22	LEU	X	95	40.578	57.459	39.303	0.00	0.00
ATOM	1476	HD23	LEU	X	95	40.508	57.669	41.170	0.00	0.00
ATOM	1477	C	LEU	X	95	45.242	58.959	39.630	0.00	0.00
ATOM	1478	O	LEU	X	95	45.841	60.020	39.867	0.00	0.00
ATOM	1479	N	ASN	X	96	45.203	58.443	38.446	0.00	0.00
ATOM	1480	H	ASN	X	96	44.892	57.483	38.414	0.00	0.00
ATOM	1481	CA	ASN	X	96	45.924	58.954	37.230	0.00	0.00
ATOM	1482	HA	ASN	X	96	46.261	59.986	37.322	0.00	0.00
ATOM	1483	CB	ASN	X	96	47.183	58.047	36.972	0.00	0.00
ATOM	1484	HB2	ASN	X	96	46.837	57.074	36.624	0.00	0.00
ATOM	1485	HB3	ASN	X	96	47.727	58.441	36.113	0.00	0.00
ATOM	1486	CG	ASN	X	96	48.033	57.914	38.197	0.00	0.00
ATOM	1487	OD1	ASN	X	96	48.843	58.744	38.542	0.00	0.00
ATOM	1488	ND2	ASN	X	96	47.748	56.854	38.967	0.00	0.00
ATOM	1489	HD21	ASN	X	96	48.310	56.777	39.803	0.00	0.00
ATOM	1490	HD22	ASN	X	96	47.131	56.126	38.638	0.00	0.00
ATOM	1491	C	ASN	X	96	44.987	58.863	35.994	0.00	0.00
ATOM	1492	O	ASN	X	96	44.042	58.117	36.096	0.00	0.00
ATOM	1493	N	VAL	X	97	45.294	59.599	34.926	0.00	0.00
ATOM	1494	H	VAL	X	97	46.017	60.296	35.032	0.00	0.00
ATOM	1495	CA	VAL	X	97	44.621	59.551	33.570	0.00	0.00
ATOM	1496	HA	VAL	X	97	44.306	58.517	33.434	0.00	0.00
ATOM	1497	CB	VAL	X	97	43.478	60.535	33.516	0.00	0.00
ATOM	1498	HB	VAL	X	97	43.932	61.522	33.431	0.00	0.00
ATOM	1499	CG1	VAL	X	97	42.516	60.322	32.308	0.00	0.00
ATOM	1500	HG11	VAL	X	97	43.050	60.358	31.358	0.00	0.00
ATOM	1501	HG12	VAL	X	97	42.177	59.288	32.367	0.00	0.00
ATOM	1502	HG13	VAL	X	97	41.639	60.966	32.370	0.00	0.00
ATOM	1503	CG2	VAL	X	97	42.541	60.567	34.769	0.00	0.00
ATOM	1504	HG21	VAL	X	97	43.047	60.805	35.705	0.00	0.00
ATOM	1505	HG22	VAL	X	97	41.869	61.406	34.586	0.00	0.00
ATOM	1506	HG23	VAL	X	97	41.996	59.632	34.895	0.00	0.00
ATOM	1507	C	VAL	X	97	45.655	59.915	32.467	0.00	0.00
ATOM	1508	O	VAL	X	97	46.360	60.877	32.626	0.00	0.00
ATOM	1509	N	TRP	X	98	45.659	59.078	31.425	0.00	0.00
ATOM	1510	H	TRP	X	98	44.998	58.315	31.391	0.00	0.00
ATOM	1511	CA	TRP	X	98	46.237	59.333	30.121	0.00	0.00
ATOM	1512	HA	TRP	X	98	46.821	60.251	30.184	0.00	0.00
ATOM	1513	CB	TRP	X	98	47.240	58.193	29.801	0.00	0.00
ATOM	1514	HB2	TRP	X	98	46.659	57.274	29.882	0.00	0.00
ATOM	1515	HB3	TRP	X	98	47.708	58.284	28.821	0.00	0.00
ATOM	1516	CG	TRP	X	98	48.538	58.005	30.654	0.00	0.00
ATOM	1517	CD1	TRP	X	98	49.827	58.251	30.272	0.00	0.00
ATOM	1518	HD1	TRP	X	98	50.095	58.579	29.278	0.00	0.00
ATOM	1519	NE1	TRP	X	98	50.684	57.751	31.239	0.00	0.00
ATOM	1520	HE1	TRP	X	98	51.691	57.680	31.215	0.00	0.00
ATOM	1521	CE2	TRP	X	98	49.983	57.301	32.322	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	50.407	56.714	33.540	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	51.453	56.644	33.799	0.00	0.00
ATOM	1524	CH2	TRP	X	98	49.454	56.225	34.441	0.00	0.00
ATOM	1525	HH2	TRP	X	98	49.725	55.787	35.390	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	48.077	56.240	34.076	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	47.420	55.828	34.828	0.00	0.00
ATOM	1528	CE3	TRP	X	98	47.717	56.807	32.804	0.00	0.00
ATOM	1529	HE3	TRP	X	98	46.701	56.892	32.450	0.00	0.00
ATOM	1530	CD2	TRP	X	98	48.660	57.331	31.894	0.00	0.00
ATOM	1531	C	TRP	X	98	45.186	59.348	29.039	0.00	0.00
ATOM	1532	O	TRP	X	98	44.328	58.465	28.975	0.00	0.00
ATOM	1533	N	THR	X	99	45.311	60.315	28.109	0.00	0.00
ATOM	1534	H	THR	X	99	46.036	61.018	28.087	0.00	0.00
ATOM	1535	CA	THR	X	99	44.270	60.712	27.125	0.00	0.00
ATOM	1536	HA	THR	X	99	43.879	59.757	26.774	0.00	0.00
ATOM	1537	CB	THR	X	99	43.108	61.519	27.937	0.00	0.00
ATOM	1538	HB	THR	X	99	42.584	60.893	28.659	0.00	0.00

ATOM	1539	CG2	THR	X	99	43.574	62.853	28.459	0.00	0.00
ATOM	1540	HG21	THR	X	99	44.119	63.442	27.721	0.00	0.00
ATOM	1541	HG22	THR	X	99	42.835	63.392	29.050	0.00	0.00
ATOM	1542	HG23	THR	X	99	44.293	62.661	29.256	0.00	0.00
ATOM	1543	OG1	THR	X	99	42.158	61.877	26.966	0.00	0.00
ATOM	1544	HG1	THR	X	99	41.306	61.820	27.405	0.00	0.00
ATOM	1545	C	THR	X	99	44.922	61.489	26.006	0.00	0.00
ATOM	1546	O	THR	X	99	45.934	62.086	26.347	0.00	0.00
ATOM	1547	N	PRO	X	100	44.455	61.488	24.749	0.00	0.00
ATOM	1548	CD	PRO	X	100	43.303	60.787	24.223	0.00	0.00
ATOM	1549	HD2	PRO	X	100	42.459	61.474	24.168	0.00	0.00
ATOM	1550	HD3	PRO	X	100	43.195	59.913	24.865	0.00	0.00
ATOM	1551	CG	PRO	X	100	43.837	60.398	22.890	0.00	0.00
ATOM	1552	HG2	PRO	X	100	43.151	59.964	22.162	0.00	0.00
ATOM	1553	HG3	PRO	X	100	44.576	59.608	23.017	0.00	0.00
ATOM	1554	CB	PRO	X	100	44.613	61.627	22.362	0.00	0.00
ATOM	1555	HB2	PRO	X	100	44.006	62.378	21.855	0.00	0.00
ATOM	1556	HB3	PRO	X	100	45.381	61.245	21.689	0.00	0.00
ATOM	1557	CA	PRO	X	100	45.166	62.127	23.659	0.00	0.00
ATOM	1558	HA	PRO	X	100	46.194	61.766	23.709	0.00	0.00
ATOM	1559	C	PRO	X	100	45.212	63.719	23.734	0.00	0.00
ATOM	1560	O	PRO	X	100	44.384	64.310	24.430	0.00	0.00
ATOM	1561	N	TYR	X	101	46.156	64.353	23.052	0.00	0.00
ATOM	1562	H	TYR	X	101	46.796	63.754	22.551	0.00	0.00
ATOM	1563	CA	TYR	X	101	46.301	65.824	22.995	0.00	0.00
ATOM	1564	HA	TYR	X	101	45.542	66.221	23.669	0.00	0.00
ATOM	1565	CB	TYR	X	101	47.696	66.191	23.609	0.00	0.00
ATOM	1566	HB2	TYR	X	101	47.813	65.798	24.619	0.00	0.00
ATOM	1567	HB3	TYR	X	101	48.498	65.669	23.086	0.00	0.00
ATOM	1568	CG	TYR	X	101	48.072	67.622	23.612	0.00	0.00
ATOM	1569	CD1	TYR	X	101	48.743	68.108	22.519	0.00	0.00
ATOM	1570	HD1	TYR	X	101	49.079	67.412	21.764	0.00	0.00
ATOM	1571	CE1	TYR	X	101	49.235	69.456	22.528	0.00	0.00
ATOM	1572	HE1	TYR	X	101	49.830	69.761	21.680	0.00	0.00
ATOM	1573	CZ	TYR	X	101	48.930	70.330	23.613	0.00	0.00
ATOM	1574	OH	TYR	X	101	49.357	71.566	23.629	0.00	0.00
ATOM	1575	HH	TYR	X	101	49.661	71.980	22.819	0.00	0.00
ATOM	1576	CE2	TYR	X	101	48.271	69.770	24.691	0.00	0.00
ATOM	1577	HE2	TYR	X	101	48.026	70.373	25.553	0.00	0.00
ATOM	1578	CD2	TYR	X	101	47.799	68.455	24.702	0.00	0.00
ATOM	1579	HD2	TYR	X	101	47.295	68.076	25.578	0.00	0.00
ATOM	1580	C	TYR	X	101	46.366	66.417	21.622	0.00	0.00
ATOM	1581	O	TYR	X	101	47.085	65.852	20.752	0.00	0.00
ATOM	1582	N	PRO	X	102	45.629	67.439	21.252	0.00	0.00
ATOM	1583	CD	PRO	X	102	45.614	68.064	19.916	0.00	0.00
ATOM	1584	HD2	PRO	X	102	45.407	67.290	19.176	0.00	0.00
ATOM	1585	HD3	PRO	X	102	46.533	68.604	19.690	0.00	0.00
ATOM	1586	CG	PRO	X	102	44.375	69.102	19.945	0.00	0.00
ATOM	1587	HG2	PRO	X	102	43.522	68.585	19.504	0.00	0.00
ATOM	1588	HG3	PRO	X	102	44.575	70.078	19.503	0.00	0.00
ATOM	1589	CB	PRO	X	102	44.164	69.314	21.435	0.00	0.00
ATOM	1590	HB2	PRO	X	102	43.138	69.624	21.632	0.00	0.00
ATOM	1591	HB3	PRO	X	102	44.872	70.054	21.808	0.00	0.00
ATOM	1592	CA	PRO	X	102	44.574	67.935	22.014	0.00	0.00
ATOM	1593	HA	PRO	X	102	44.873	68.173	23.034	0.00	0.00
ATOM	1594	C	PRO	X	102	43.431	66.915	22.130	0.00	0.00
ATOM	1595	O	PRO	X	102	43.488	65.920	21.377	0.00	0.00
ATOM	1596	N	ARG	X	103	42.639	67.022	23.199	0.00	0.00
ATOM	1597	H	ARG	X	103	42.755	67.892	23.699	0.00	0.00
ATOM	1598	CA	ARG	X	103	41.636	66.018	23.504	0.00	0.00
ATOM	1599	HA	ARG	X	103	42.195	65.094	23.649	0.00	0.00
ATOM	1600	CB	ARG	X	103	40.941	66.266	24.936	0.00	0.00
ATOM	1601	HB2	ARG	X	103	40.907	67.318	25.220	0.00	0.00
ATOM	1602	HB3	ARG	X	103	39.932	65.853	24.913	0.00	0.00
ATOM	1603	CG	ARG	X	103	41.513	65.506	26.164	0.00	0.00
ATOM	1604	HG2	ARG	X	103	40.823	65.517	27.008	0.00	0.00
ATOM	1605	HG3	ARG	X	103	41.789	64.466	25.994	0.00	0.00
ATOM	1606	CD	ARG	X	103	42.788	66.055	26.659	0.00	0.00
ATOM	1607	HD2	ARG	X	103	43.284	65.363	27.339	0.00	0.00
ATOM	1608	HD3	ARG	X	103	43.483	66.172	25.827	0.00	0.00

ATOM	1609	NE	ARG	X	103	42.615	67.493	27.270	0.00	0.00
ATOM	1610	HE	ARG	X	103	41.644	67.740	27.395	0.00	0.00
ATOM	1611	CZ	ARG	X	103	43.498	68.470	27.354	0.00	0.00
ATOM	1612	NH1	ARG	X	103	44.800	68.265	27.070	0.00	0.00
ATOM	1613	HH11	ARG	X	103	45.084	67.302	26.962	0.00	0.00
ATOM	1614	HH12	ARG	X	103	45.514	68.976	27.141	0.00	0.00
ATOM	1615	NH2	ARG	X	103	43.196	69.697	27.705	0.00	0.00
ATOM	1616	HH21	ARG	X	103	42.309	69.960	28.111	0.00	0.00
ATOM	1617	HH22	ARG	X	103	43.935	70.363	27.531	0.00	0.00
ATOM	1618	C	ARG	X	103	40.536	65.845	22.437	0.00	0.00
ATOM	1619	O	ARG	X	103	40.068	66.894	21.931	0.00	0.00
ATOM	1620	N	PRO	X	104	40.106	64.618	22.143	0.00	0.00
ATOM	1621	CD	PRO	X	104	40.662	63.388	22.692	0.00	0.00
ATOM	1622	HD2	PRO	X	104	40.607	63.410	23.781	0.00	0.00
ATOM	1623	HD3	PRO	X	104	41.695	63.184	22.408	0.00	0.00
ATOM	1624	CG	PRO	X	104	39.793	62.237	22.114	0.00	0.00
ATOM	1625	HG2	PRO	X	104	38.958	62.160	22.810	0.00	0.00
ATOM	1626	HG3	PRO	X	104	40.378	61.339	21.918	0.00	0.00
ATOM	1627	CB	PRO	X	104	39.420	62.794	20.699	0.00	0.00
ATOM	1628	HB2	PRO	X	104	38.471	62.419	20.316	0.00	0.00
ATOM	1629	HB3	PRO	X	104	40.273	62.683	20.029	0.00	0.00
ATOM	1630	CA	PRO	X	104	39.343	64.324	20.919	0.00	0.00
ATOM	1631	HA	PRO	X	104	39.863	64.738	20.056	0.00	0.00
ATOM	1632	C	PRO	X	104	37.927	64.811	21.169	0.00	0.00
ATOM	1633	O	PRO	X	104	37.253	64.557	22.199	0.00	0.00
ATOM	1634	N	THR	X	105	37.375	65.501	20.166	0.00	0.00
ATOM	1635	H	THR	X	105	37.979	65.893	19.458	0.00	0.00
ATOM	1636	CA	THR	X	105	36.035	65.916	20.038	0.00	0.00
ATOM	1637	HA	THR	X	105	35.815	66.464	20.955	0.00	0.00
ATOM	1638	CB	THR	X	105	35.944	67.027	18.989	0.00	0.00
ATOM	1639	HB	THR	X	105	34.896	67.314	18.898	0.00	0.00
ATOM	1640	CG2	THR	X	105	36.884	68.158	19.295	0.00	0.00
ATOM	1641	HG21	THR	X	105	37.918	67.992	18.992	0.00	0.00
ATOM	1642	HG22	THR	X	105	36.623	69.068	18.756	0.00	0.00
ATOM	1643	HG23	THR	X	105	36.894	68.376	20.363	0.00	0.00
ATOM	1644	OG1	THR	X	105	36.335	66.466	17.784	0.00	0.00
ATOM	1645	HG1	THR	X	105	36.408	67.214	17.186	0.00	0.00
ATOM	1646	C	THR	X	105	34.982	64.810	19.769	0.00	0.00
ATOM	1647	O	THR	X	105	33.944	64.981	19.197	0.00	0.00
ATOM	1648	N	SER	X	106	35.235	63.686	20.324	0.00	0.00
ATOM	1649	H	SER	X	106	36.019	63.651	20.960	0.00	0.00
ATOM	1650	CA	SER	X	106	34.426	62.485	20.228	0.00	0.00
ATOM	1651	HA	SER	X	106	33.408	62.865	20.317	0.00	0.00
ATOM	1652	CB	SER	X	106	34.674	61.838	18.917	0.00	0.00
ATOM	1653	HB2	SER	X	106	34.230	60.845	18.991	0.00	0.00
ATOM	1654	HB3	SER	X	106	34.170	62.404	18.134	0.00	0.00
ATOM	1655	OG	SER	X	106	36.068	61.815	18.550	0.00	0.00
ATOM	1656	HG	SER	X	106	36.118	61.151	17.858	0.00	0.00
ATOM	1657	C	SER	X	106	34.698	61.513	21.330	0.00	0.00
ATOM	1658	O	SER	X	106	35.817	61.546	21.841	0.00	0.00
ATOM	1659	N	PRO	X	107	33.728	60.793	21.863	0.00	0.00
ATOM	1660	CD	PRO	X	107	32.362	60.950	21.617	0.00	0.00
ATOM	1661	HD2	PRO	X	107	32.152	60.796	20.558	0.00	0.00
ATOM	1662	HD3	PRO	X	107	32.178	61.979	21.924	0.00	0.00
ATOM	1663	CG	PRO	X	107	31.767	59.802	22.396	0.00	0.00
ATOM	1664	HG2	PRO	X	107	31.791	58.910	21.771	0.00	0.00
ATOM	1665	HG3	PRO	X	107	30.717	60.070	22.513	0.00	0.00
ATOM	1666	CB	PRO	X	107	32.554	59.579	23.633	0.00	0.00
ATOM	1667	HB2	PRO	X	107	32.536	58.581	24.070	0.00	0.00
ATOM	1668	HB3	PRO	X	107	32.296	60.238	24.462	0.00	0.00
ATOM	1669	CA	PRO	X	107	33.987	59.930	23.036	0.00	0.00
ATOM	1670	HA	PRO	X	107	34.590	60.511	23.734	0.00	0.00
ATOM	1671	C	PRO	X	107	34.775	58.668	22.789	0.00	0.00
ATOM	1672	O	PRO	X	107	34.923	58.257	21.628	0.00	0.00
ATOM	1673	N	THR	X	108	35.305	57.993	23.859	0.00	0.00
ATOM	1674	H	THR	X	108	35.135	58.329	24.797	0.00	0.00
ATOM	1675	CA	THR	X	108	36.216	56.848	23.654	0.00	0.00
ATOM	1676	HA	THR	X	108	35.962	56.302	22.746	0.00	0.00
ATOM	1677	CB	THR	X	108	37.652	57.423	23.339	0.00	0.00
ATOM	1678	HB	THR	X	108	37.717	57.944	22.384	0.00	0.00

ATOM	1679	CG2	THR	X	108	38.199	58.409	24.400	0.00	0.00
ATOM	1680	HG21	THR	X	108	37.457	59.194	24.549	0.00	0.00
ATOM	1681	HG22	THR	X	108	38.378	57.761	25.257	0.00	0.00
ATOM	1682	HG23	THR	X	108	39.121	58.877	24.055	0.00	0.00
ATOM	1683	OG1	THR	X	108	38.552	56.380	23.274	0.00	0.00
ATOM	1684	HG1	THR	X	108	39.433	56.636	22.993	0.00	0.00
ATOM	1685	C	THR	X	108	36.217	56.102	24.961	0.00	0.00
ATOM	1686	O	THR	X	108	36.119	56.784	25.974	0.00	0.00
ATOM	1687	N	PRO	X	109	36.283	54.765	24.919	0.00	0.00
ATOM	1688	CD	PRO	X	109	36.395	53.964	23.671	0.00	0.00
ATOM	1689	HD2	PRO	X	109	37.403	53.983	23.255	0.00	0.00
ATOM	1690	HD3	PRO	X	109	35.702	54.354	22.926	0.00	0.00
ATOM	1691	CG	PRO	X	109	36.153	52.452	24.094	0.00	0.00
ATOM	1692	HG2	PRO	X	109	36.758	51.708	23.576	0.00	0.00
ATOM	1693	HG3	PRO	X	109	35.084	52.330	23.918	0.00	0.00
ATOM	1694	CB	PRO	X	109	36.542	52.505	25.577	0.00	0.00
ATOM	1695	HB2	PRO	X	109	37.517	52.063	25.782	0.00	0.00
ATOM	1696	HB3	PRO	X	109	35.974	51.803	26.187	0.00	0.00
ATOM	1697	CA	PRO	X	109	36.328	53.928	26.096	0.00	0.00
ATOM	1698	HA	PRO	X	109	35.332	53.907	26.539	0.00	0.00
ATOM	1699	C	PRO	X	109	37.338	54.313	27.132	0.00	0.00
ATOM	1700	O	PRO	X	109	38.403	54.857	26.905	0.00	0.00
ATOM	1701	N	VAL	X	110	37.041	53.908	28.401	0.00	0.00
ATOM	1702	H	VAL	X	110	36.150	53.436	28.473	0.00	0.00
ATOM	1703	CA	VAL	X	110	37.843	54.079	29.618	0.00	0.00
ATOM	1704	HA	VAL	X	110	38.736	54.671	29.418	0.00	0.00
ATOM	1705	CB	VAL	X	110	37.026	54.647	30.855	0.00	0.00
ATOM	1706	HB	VAL	X	110	36.249	53.901	31.017	0.00	0.00
ATOM	1707	CG1	VAL	X	110	37.750	54.759	32.152	0.00	0.00
ATOM	1708	HG11	VAL	X	110	38.287	53.813	32.211	0.00	0.00
ATOM	1709	HG12	VAL	X	110	38.503	55.547	32.160	0.00	0.00
ATOM	1710	HG13	VAL	X	110	36.960	54.753	32.903	0.00	0.00
ATOM	1711	CG2	VAL	X	110	36.383	56.044	30.509	0.00	0.00
ATOM	1712	HG21	VAL	X	110	35.526	56.103	31.180	0.00	0.00
ATOM	1713	HG22	VAL	X	110	37.136	56.821	30.643	0.00	0.00
ATOM	1714	HG23	VAL	X	110	35.951	56.121	29.511	0.00	0.00
ATOM	1715	C	VAL	X	110	38.289	52.674	29.901	0.00	0.00
ATOM	1716	O	VAL	X	110	37.556	51.683	29.679	0.00	0.00
ATOM	1717	N	LEU	X	111	39.508	52.565	30.391	0.00	0.00
ATOM	1718	H	LEU	X	111	39.992	53.438	30.547	0.00	0.00
ATOM	1719	CA	LEU	X	111	40.158	51.296	30.733	0.00	0.00
ATOM	1720	HA	LEU	X	111	39.404	50.530	30.915	0.00	0.00
ATOM	1721	CB	LEU	X	111	41.093	50.849	29.620	0.00	0.00
ATOM	1722	HB2	LEU	X	111	40.598	50.992	28.660	0.00	0.00
ATOM	1723	HB3	LEU	X	111	41.884	51.589	29.497	0.00	0.00
ATOM	1724	CG	LEU	X	111	41.797	49.502	29.616	0.00	0.00
ATOM	1725	HG	LEU	X	111	42.489	49.533	30.457	0.00	0.00
ATOM	1726	CD1	LEU	X	111	40.871	48.280	29.838	0.00	0.00
ATOM	1727	HD11	LEU	X	111	40.517	48.115	30.856	0.00	0.00
ATOM	1728	HD12	LEU	X	111	40.002	48.405	29.192	0.00	0.00
ATOM	1729	HD13	LEU	X	111	41.473	47.393	29.644	0.00	0.00
ATOM	1730	CD2	LEU	X	111	42.599	49.412	28.222	0.00	0.00
ATOM	1731	HD21	LEU	X	111	43.244	48.533	28.239	0.00	0.00
ATOM	1732	HD22	LEU	X	111	41.934	49.432	27.359	0.00	0.00
ATOM	1733	HD23	LEU	X	111	43.345	50.206	28.184	0.00	0.00
ATOM	1734	C	LEU	X	111	40.873	51.554	32.050	0.00	0.00
ATOM	1735	O	LEU	X	111	41.764	52.386	32.197	0.00	0.00
ATOM	1736	N	VAL	X	112	40.403	50.882	33.054	0.00	0.00
ATOM	1737	H	VAL	X	112	39.646	50.225	32.929	0.00	0.00
ATOM	1738	CA	VAL	X	112	40.756	51.158	34.462	0.00	0.00
ATOM	1739	HA	VAL	X	112	41.370	52.056	34.516	0.00	0.00
ATOM	1740	CB	VAL	X	112	39.545	51.231	35.360	0.00	0.00
ATOM	1741	HB	VAL	X	112	39.033	50.269	35.368	0.00	0.00
ATOM	1742	CG1	VAL	X	112	39.898	51.679	36.842	0.00	0.00
ATOM	1743	HG11	VAL	X	112	38.945	51.868	37.336	0.00	0.00
ATOM	1744	HG12	VAL	X	112	40.345	50.839	37.373	0.00	0.00
ATOM	1745	HG13	VAL	X	112	40.531	52.564	36.777	0.00	0.00
ATOM	1746	CG2	VAL	X	112	38.517	52.265	34.807	0.00	0.00
ATOM	1747	HG21	VAL	X	112	37.773	52.534	35.557	0.00	0.00
ATOM	1748	HG22	VAL	X	112	39.063	53.162	34.513	0.00	0.00

ATOM	1749	HG23	VAL	X	112	38.041	51.884	33.903	0.00	0.00
ATOM	1750	C	VAL	X	112	41.599	49.969	34.894	0.00	0.00
ATOM	1751	O	VAL	X	112	41.062	48.855	34.906	0.00	0.00
ATOM	1752	N	TRP	X	113	42.906	50.206	35.193	0.00	0.00
ATOM	1753	H	TRP	X	113	43.302	51.116	35.003	0.00	0.00
ATOM	1754	CA	TRP	X	113	43.836	49.321	35.802	0.00	0.00
ATOM	1755	HA	TRP	X	113	43.689	48.361	35.307	0.00	0.00
ATOM	1756	CB	TRP	X	113	45.229	49.794	35.442	0.00	0.00
ATOM	1757	HB2	TRP	X	113	45.323	49.677	34.363	0.00	0.00
ATOM	1758	HB3	TRP	X	113	45.333	50.812	35.817	0.00	0.00
ATOM	1759	CG	TRP	X	113	46.377	49.092	36.089	0.00	0.00
ATOM	1760	CD1	TRP	X	113	47.317	49.710	36.819	0.00	0.00
ATOM	1761	HD1	TRP	X	113	47.404	50.785	36.860	0.00	0.00
ATOM	1762	NE1	TRP	X	113	48.273	48.814	37.186	0.00	0.00
ATOM	1763	HE1	TRP	X	113	49.179	49.032	37.574	0.00	0.00
ATOM	1764	CE2	TRP	X	113	47.895	47.544	36.793	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	48.556	46.296	36.798	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	49.574	46.171	37.136	0.00	0.00
ATOM	1767	CH2	TRP	X	113	47.900	45.135	36.359	0.00	0.00
ATOM	1768	HH2	TRP	X	113	48.458	44.211	36.378	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	46.739	45.283	35.579	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	46.264	44.479	35.037	0.00	0.00
ATOM	1771	CE3	TRP	X	113	46.209	46.590	35.290	0.00	0.00
ATOM	1772	HE3	TRP	X	113	45.333	46.691	34.667	0.00	0.00
ATOM	1773	CD2	TRP	X	113	46.737	47.695	36.038	0.00	0.00
ATOM	1774	C	TRP	X	113	43.593	49.219	37.367	0.00	0.00
ATOM	1775	O	TRP	X	113	43.661	50.254	38.035	0.00	0.00
ATOM	1776	N	ILE	X	114	43.507	47.996	37.852	0.00	0.00
ATOM	1777	H	ILE	X	114	43.356	47.255	37.183	0.00	0.00
ATOM	1778	CA	ILE	X	114	43.423	47.704	39.291	0.00	0.00
ATOM	1779	HA	ILE	X	114	43.782	48.472	39.976	0.00	0.00
ATOM	1780	CB	ILE	X	114	41.991	47.220	39.666	0.00	0.00
ATOM	1781	HB	ILE	X	114	41.844	46.253	39.185	0.00	0.00
ATOM	1782	CG2	ILE	X	114	41.854	46.883	41.204	0.00	0.00
ATOM	1783	HG21	ILE	X	114	40.836	46.545	41.395	0.00	0.00
ATOM	1784	HG22	ILE	X	114	42.579	46.098	41.420	0.00	0.00
ATOM	1785	HG23	ILE	X	114	42.125	47.771	41.774	0.00	0.00
ATOM	1786	CG1	ILE	X	114	40.886	48.214	39.209	0.00	0.00
ATOM	1787	HG12	ILE	X	114	41.151	49.169	39.663	0.00	0.00
ATOM	1788	HG13	ILE	X	114	40.931	48.169	38.121	0.00	0.00
ATOM	1789	CD1	ILE	X	114	39.457	47.891	39.657	0.00	0.00
ATOM	1790	HD11	ILE	X	114	39.173	46.840	39.694	0.00	0.00
ATOM	1791	HD12	ILE	X	114	39.277	48.327	40.640	0.00	0.00
ATOM	1792	HD13	ILE	X	114	38.691	48.348	39.030	0.00	0.00
ATOM	1793	C	ILE	X	114	44.509	46.596	39.453	0.00	0.00
ATOM	1794	O	ILE	X	114	44.360	45.613	38.752	0.00	0.00
ATOM	1795	N	TYR	X	115	45.497	46.810	40.321	0.00	0.00
ATOM	1796	H	TYR	X	115	45.560	47.693	40.808	0.00	0.00
ATOM	1797	CA	TYR	X	115	46.746	45.919	40.377	0.00	0.00
ATOM	1798	HA	TYR	X	115	46.982	45.523	39.389	0.00	0.00
ATOM	1799	CB	TYR	X	115	48.015	46.737	40.688	0.00	0.00
ATOM	1800	HB2	TYR	X	115	48.857	46.054	40.800	0.00	0.00
ATOM	1801	HB3	TYR	X	115	48.291	47.349	39.829	0.00	0.00
ATOM	1802	CG	TYR	X	115	47.819	47.611	41.963	0.00	0.00
ATOM	1803	CD1	TYR	X	115	47.735	47.068	43.269	0.00	0.00
ATOM	1804	HD1	TYR	X	115	47.957	46.016	43.371	0.00	0.00
ATOM	1805	CE1	TYR	X	115	47.457	47.838	44.428	0.00	0.00
ATOM	1806	HE1	TYR	X	115	47.316	47.406	45.407	0.00	0.00
ATOM	1807	CZ	TYR	X	115	47.403	49.244	44.298	0.00	0.00
ATOM	1808	OH	TYR	X	115	47.184	50.106	45.371	0.00	0.00
ATOM	1809	HH	TYR	X	115	47.516	50.994	45.219	0.00	0.00
ATOM	1810	CE2	TYR	X	115	47.386	49.733	43.000	0.00	0.00
ATOM	1811	HE2	TYR	X	115	47.134	50.780	42.908	0.00	0.00
ATOM	1812	CD2	TYR	X	115	47.499	48.998	41.847	0.00	0.00
ATOM	1813	HD2	TYR	X	115	47.600	49.503	40.898	0.00	0.00
ATOM	1814	C	TYR	X	115	46.650	44.726	41.280	0.00	0.00
ATOM	1815	O	TYR	X	115	45.793	44.602	42.184	0.00	0.00
ATOM	1816	N	GLY	X	116	47.630	43.786	41.124	0.00	0.00
ATOM	1817	H	GLY	X	116	48.358	44.089	40.493	0.00	0.00
ATOM	1818	CA	GLY	X	116	47.938	42.666	42.018	0.00	0.00

ATOM	1819	HA2	GLY	X	116	47.178	42.283	42.581	0.00	0.00
ATOM	1820	HA3	GLY	X	116	48.361	41.923	41.403	0.00	0.00
ATOM	1821	C	GLY	X	116	49.015	42.997	43.024	0.00	0.00
ATOM	1822	O	GLY	X	116	49.563	44.077	42.943	0.00	0.00
ATOM	1823	N	GLY	X	117	49.170	42.004	43.985	0.00	0.00
ATOM	1824	H	GLY	X	117	48.742	41.115	43.767	0.00	0.00
ATOM	1825	CA	GLY	X	117	50.079	41.968	45.156	0.00	0.00
ATOM	1826	HA2	GLY	X	117	51.105	41.651	44.859	0.00	0.00
ATOM	1827	HA3	GLY	X	117	50.156	42.997	45.447	0.00	0.00
ATOM	1828	C	GLY	X	117	49.475	41.134	46.316	0.00	0.00
ATOM	1829	O	GLY	X	117	49.747	41.420	47.454	0.00	0.00
ATOM	1830	N	GLY	X	118	48.645	40.169	46.082	0.00	0.00
ATOM	1831	H	GLY	X	118	48.602	39.908	45.107	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.170	39.226	47.132	0.00	0.00
ATOM	1833	HA2	GLY	X	118	47.711	38.393	46.514	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.048	38.832	47.608	0.00	0.00
ATOM	1835	C	GLY	X	118	47.158	39.872	48.086	0.00	0.00
ATOM	1836	O	GLY	X	118	46.861	39.309	49.147	0.00	0.00
ATOM	1837	N	PHE	X	119	46.628	41.085	47.756	0.00	0.00
ATOM	1838	H	PHE	X	119	46.957	41.432	46.866	0.00	0.00
ATOM	1839	CA	PHE	X	119	45.813	41.997	48.530	0.00	0.00
ATOM	1840	HA	PHE	X	119	45.405	42.788	47.901	0.00	0.00
ATOM	1841	CB	PHE	X	119	44.503	41.328	48.993	0.00	0.00
ATOM	1842	HB2	PHE	X	119	44.863	40.543	49.658	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.004	42.055	49.634	0.00	0.00
ATOM	1844	CG	PHE	X	119	43.539	40.950	47.912	0.00	0.00
ATOM	1845	CD1	PHE	X	119	42.593	41.923	47.489	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.659	42.938	47.850	0.00	0.00
ATOM	1847	CE1	PHE	X	119	41.601	41.565	46.526	0.00	0.00
ATOM	1848	HE1	PHE	X	119	40.907	42.326	46.200	0.00	0.00
ATOM	1849	CZ	PHE	X	119	41.566	40.239	45.991	0.00	0.00
ATOM	1850	HZ	PHE	X	119	40.949	40.133	45.111	0.00	0.00
ATOM	1851	CE2	PHE	X	119	42.535	39.308	46.434	0.00	0.00
ATOM	1852	HE2	PHE	X	119	42.612	38.317	46.013	0.00	0.00
ATOM	1853	CD2	PHE	X	119	43.432	39.625	47.486	0.00	0.00
ATOM	1854	HD2	PHE	X	119	44.169	38.947	47.890	0.00	0.00
ATOM	1855	C	PHE	X	119	46.597	42.505	49.755	0.00	0.00
ATOM	1856	O	PHE	X	119	46.095	43.434	50.353	0.00	0.00
ATOM	1857	N	TYR	X	120	47.786	41.993	50.083	0.00	0.00
ATOM	1858	H	TYR	X	120	48.054	41.139	49.615	0.00	0.00
ATOM	1859	CA	TYR	X	120	48.717	42.438	51.049	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.234	42.875	51.922	0.00	0.00
ATOM	1861	CB	TYR	X	120	49.298	41.131	51.540	0.00	0.00
ATOM	1862	HB2	TYR	X	120	49.504	41.224	52.607	0.00	0.00
ATOM	1863	HB3	TYR	X	120	48.611	40.289	51.456	0.00	0.00
ATOM	1864	CG	TYR	X	120	50.611	40.615	50.880	0.00	0.00
ATOM	1865	CD1	TYR	X	120	51.867	41.012	51.349	0.00	0.00
ATOM	1866	HD1	TYR	X	120	51.958	41.716	52.163	0.00	0.00
ATOM	1867	CE1	TYR	X	120	53.033	40.564	50.767	0.00	0.00
ATOM	1868	HE1	TYR	X	120	53.941	40.936	51.219	0.00	0.00
ATOM	1869	CZ	TYR	X	120	53.009	39.739	49.655	0.00	0.00
ATOM	1870	OH	TYR	X	120	54.133	39.412	48.950	0.00	0.00
ATOM	1871	HH	TYR	X	120	54.923	39.882	49.225	0.00	0.00
ATOM	1872	CE2	TYR	X	120	51.746	39.219	49.252	0.00	0.00
ATOM	1873	HE2	TYR	X	120	51.758	38.553	48.403	0.00	0.00
ATOM	1874	CD2	TYR	X	120	50.589	39.709	49.829	0.00	0.00
ATOM	1875	HD2	TYR	X	120	49.673	39.182	49.604	0.00	0.00
ATOM	1876	C	TYR	X	120	49.754	43.410	50.470	0.00	0.00
ATOM	1877	O	TYR	X	120	50.593	43.887	51.209	0.00	0.00
ATOM	1878	N	SER	X	121	49.772	43.783	49.225	0.00	0.00
ATOM	1879	H	SER	X	121	49.067	43.325	48.665	0.00	0.00
ATOM	1880	CA	SER	X	121	50.814	44.604	48.551	0.00	0.00
ATOM	1881	HA	SER	X	121	50.925	45.511	49.145	0.00	0.00
ATOM	1882	CB	SER	X	121	52.120	43.837	48.520	0.00	0.00
ATOM	1883	HB2	SER	X	121	52.902	44.589	48.413	0.00	0.00
ATOM	1884	HB3	SER	X	121	52.322	43.402	49.499	0.00	0.00
ATOM	1885	OG	SER	X	121	52.072	42.842	47.517	0.00	0.00
ATOM	1886	HG	SER	X	121	51.285	42.300	47.616	0.00	0.00
ATOM	1887	C	SER	X	121	50.377	45.120	47.127	0.00	0.00
ATOM	1888	O	SER	X	121	49.254	44.752	46.749	0.00	0.00

ATOM	1889	N	GLY	X	122	51.099	45.901	46.334	0.00	0.00
ATOM	1890	H	GLY	X	122	51.959	46.307	46.675	0.00	0.00
ATOM	1891	CA	GLY	X	122	50.645	46.348	45.039	0.00	0.00
ATOM	1892	HA2	GLY	X	122	51.292	45.924	44.223	0.00	0.00
ATOM	1893	HA3	GLY	X	122	49.607	46.092	44.858	0.00	0.00
ATOM	1894	C	GLY	X	122	50.840	47.861	44.977	0.00	0.00
ATOM	1895	O	GLY	X	122	51.200	48.560	45.920	0.00	0.00
ATOM	1896	N	ALA	X	123	50.765	48.404	43.721	0.00	0.00
ATOM	1897	H	ALA	X	123	50.474	47.737	43.021	0.00	0.00
ATOM	1898	CA	ALA	X	123	51.040	49.829	43.357	0.00	0.00
ATOM	1899	HA	ALA	X	123	50.377	50.421	43.988	0.00	0.00
ATOM	1900	CB	ALA	X	123	52.506	50.292	43.622	0.00	0.00
ATOM	1901	HB1	ALA	X	123	52.622	51.340	43.347	0.00	0.00
ATOM	1902	HB2	ALA	X	123	52.644	50.100	44.686	0.00	0.00
ATOM	1903	HB3	ALA	X	123	53.158	49.619	43.064	0.00	0.00
ATOM	1904	C	ALA	X	123	50.699	50.150	41.869	0.00	0.00
ATOM	1905	O	ALA	X	123	51.245	49.538	40.980	0.00	0.00
ATOM	1906	N	SER	X	124	50.095	51.294	41.641	0.00	0.00
ATOM	1907	H	SER	X	124	49.798	51.887	42.403	0.00	0.00
ATOM	1908	CA	SER	X	124	49.892	51.866	40.309	0.00	0.00
ATOM	1909	HA	SER	X	124	49.990	51.063	39.578	0.00	0.00
ATOM	1910	CB	SER	X	124	48.452	52.416	40.152	0.00	0.00
ATOM	1911	HB2	SER	X	124	48.334	52.894	39.180	0.00	0.00
ATOM	1912	HB3	SER	X	124	47.610	51.726	40.215	0.00	0.00
ATOM	1913	OG	SER	X	124	48.162	53.434	41.101	0.00	0.00
ATOM	1914	HG	SER	X	124	47.285	53.206	41.418	0.00	0.00
ATOM	1915	C	SER	X	124	50.824	52.973	39.854	0.00	0.00
ATOM	1916	O	SER	X	124	50.831	53.336	38.718	0.00	0.00
ATOM	1917	N	SER	X	125	51.661	53.475	40.745	0.00	0.00
ATOM	1918	H	SER	X	125	51.712	53.026	41.648	0.00	0.00
ATOM	1919	CA	SER	X	125	52.604	54.558	40.395	0.00	0.00
ATOM	1920	HA	SER	X	125	52.008	55.436	40.144	0.00	0.00
ATOM	1921	CB	SER	X	125	53.256	55.051	41.698	0.00	0.00
ATOM	1922	HB2	SER	X	125	53.792	55.986	41.533	0.00	0.00
ATOM	1923	HB3	SER	X	125	52.558	55.177	42.526	0.00	0.00
ATOM	1924	OG	SER	X	125	54.269	54.172	42.096	0.00	0.00
ATOM	1925	HG	SER	X	125	55.053	54.370	41.578	0.00	0.00
ATOM	1926	C	SER	X	125	53.609	54.292	39.331	0.00	0.00
ATOM	1927	O	SER	X	125	54.223	55.252	38.887	0.00	0.00
ATOM	1928	N	LEU	X	126	53.863	53.052	38.910	0.00	0.00
ATOM	1929	H	LEU	X	126	53.279	52.344	39.330	0.00	0.00
ATOM	1930	CA	LEU	X	126	55.022	52.694	38.096	0.00	0.00
ATOM	1931	HA	LEU	X	126	55.949	53.097	38.504	0.00	0.00
ATOM	1932	CB	LEU	X	126	55.195	51.176	38.254	0.00	0.00
ATOM	1933	HB2	LEU	X	126	54.238	50.742	37.963	0.00	0.00
ATOM	1934	HB3	LEU	X	126	55.977	50.955	37.528	0.00	0.00
ATOM	1935	CG	LEU	X	126	55.653	50.690	39.629	0.00	0.00
ATOM	1936	HG	LEU	X	126	56.371	51.426	39.993	0.00	0.00
ATOM	1937	CD1	LEU	X	126	54.520	50.638	40.656	0.00	0.00
ATOM	1938	HD11	LEU	X	126	53.610	50.249	40.200	0.00	0.00
ATOM	1939	HD12	LEU	X	126	54.844	49.971	41.455	0.00	0.00
ATOM	1940	HD13	LEU	X	126	54.286	51.645	40.999	0.00	0.00
ATOM	1941	CD2	LEU	X	126	56.216	49.301	39.461	0.00	0.00
ATOM	1942	HD21	LEU	X	126	56.821	49.410	38.561	0.00	0.00
ATOM	1943	HD22	LEU	X	126	56.820	48.955	40.300	0.00	0.00
ATOM	1944	HD23	LEU	X	126	55.382	48.629	39.263	0.00	0.00
ATOM	1945	C	LEU	X	126	54.883	53.047	36.559	0.00	0.00
ATOM	1946	O	LEU	X	126	53.783	53.114	36.011	0.00	0.00
ATOM	1947	N	ASP	X	127	56.060	52.904	35.904	0.00	0.00
ATOM	1948	H	ASP	X	127	56.894	52.892	36.474	0.00	0.00
ATOM	1949	CA	ASP	X	127	56.290	53.320	34.487	0.00	0.00
ATOM	1950	HA	ASP	X	127	55.540	54.021	34.120	0.00	0.00
ATOM	1951	CB	ASP	X	127	57.735	53.858	34.496	0.00	0.00
ATOM	1952	HB2	ASP	X	127	57.914	54.633	35.242	0.00	0.00
ATOM	1953	HB3	ASP	X	127	58.335	52.987	34.758	0.00	0.00
ATOM	1954	CG	ASP	X	127	58.127	54.281	33.095	0.00	0.00
ATOM	1955	OD1	ASP	X	127	58.835	53.479	32.470	0.00	0.00
ATOM	1956	OD2	ASP	X	127	57.764	55.409	32.696	0.00	0.00
ATOM	1957	C	ASP	X	127	56.118	52.127	33.593	0.00	0.00
ATOM	1958	O	ASP	X	127	55.616	52.251	32.475	0.00	0.00

ATOM	1959	N	VAL	X	128	56.453	50.930	34.019	0.00	0.00
ATOM	1960	H	VAL	X	128	57.104	50.958	34.791	0.00	0.00
ATOM	1961	CA	VAL	X	128	56.038	49.652	33.438	0.00	0.00
ATOM	1962	HA	VAL	X	128	56.382	49.508	32.414	0.00	0.00
ATOM	1963	CB	VAL	X	128	56.762	48.475	34.091	0.00	0.00
ATOM	1964	HB	VAL	X	128	57.797	48.733	34.312	0.00	0.00
ATOM	1965	CG1	VAL	X	128	56.264	48.278	35.555	0.00	0.00
ATOM	1966	HG11	VAL	X	128	56.733	47.434	36.060	0.00	0.00
ATOM	1967	HG12	VAL	X	128	56.467	49.182	36.131	0.00	0.00
ATOM	1968	HG13	VAL	X	128	55.195	48.075	35.619	0.00	0.00
ATOM	1969	CG2	VAL	X	128	56.725	47.154	33.307	0.00	0.00
ATOM	1970	HG21	VAL	X	128	55.690	46.811	33.334	0.00	0.00
ATOM	1971	HG22	VAL	X	128	57.019	47.328	32.272	0.00	0.00
ATOM	1972	HG23	VAL	X	128	57.444	46.446	33.718	0.00	0.00
ATOM	1973	C	VAL	X	128	54.440	49.528	33.342	0.00	0.00
ATOM	1974	O	VAL	X	128	54.017	48.815	32.444	0.00	0.00
ATOM	1975	N	TYR	X	129	53.683	50.303	34.119	0.00	0.00
ATOM	1976	H	TYR	X	129	54.180	50.844	34.811	0.00	0.00
ATOM	1977	CA	TYR	X	129	52.180	50.423	34.156	0.00	0.00
ATOM	1978	HA	TYR	X	129	51.811	49.750	33.382	0.00	0.00
ATOM	1979	CB	TYR	X	129	51.517	49.923	35.582	0.00	0.00
ATOM	1980	HB2	TYR	X	129	51.775	50.625	36.376	0.00	0.00
ATOM	1981	HB3	TYR	X	129	50.440	49.778	35.506	0.00	0.00
ATOM	1982	CG	TYR	X	129	52.102	48.580	36.092	0.00	0.00
ATOM	1983	CD1	TYR	X	129	52.286	47.516	35.205	0.00	0.00
ATOM	1984	HD1	TYR	X	129	52.072	47.678	34.159	0.00	0.00
ATOM	1985	CE1	TYR	X	129	52.724	46.288	35.603	0.00	0.00
ATOM	1986	HE1	TYR	X	129	52.790	45.481	34.888	0.00	0.00
ATOM	1987	CZ	TYR	X	129	53.112	46.100	36.924	0.00	0.00
ATOM	1988	OH	TYR	X	129	53.554	44.876	37.339	0.00	0.00
ATOM	1989	HH	TYR	X	129	53.647	44.838	38.294	0.00	0.00
ATOM	1990	CE2	TYR	X	129	52.907	47.144	37.886	0.00	0.00
ATOM	1991	HE2	TYR	X	129	52.935	46.873	38.931	0.00	0.00
ATOM	1992	CD2	TYR	X	129	52.403	48.378	37.486	0.00	0.00
ATOM	1993	HD2	TYR	X	129	52.188	49.155	38.205	0.00	0.00
ATOM	1994	C	TYR	X	129	51.762	51.836	33.717	0.00	0.00
ATOM	1995	O	TYR	X	129	50.732	52.282	34.045	0.00	0.00
ATOM	1996	N	ASP	X	130	52.581	52.626	32.925	0.00	0.00
ATOM	1997	H	ASP	X	130	53.443	52.157	32.684	0.00	0.00
ATOM	1998	CA	ASP	X	130	52.277	53.890	32.366	0.00	0.00
ATOM	1999	HA	ASP	X	130	51.632	54.471	33.026	0.00	0.00
ATOM	2000	CB	ASP	X	130	53.544	54.687	32.083	0.00	0.00
ATOM	2001	HB2	ASP	X	130	54.016	54.896	33.043	0.00	0.00
ATOM	2002	HB3	ASP	X	130	54.193	54.086	31.445	0.00	0.00
ATOM	2003	CG	ASP	X	130	53.342	55.979	31.254	0.00	0.00
ATOM	2004	OD1	ASP	X	130	52.843	55.978	30.072	0.00	0.00
ATOM	2005	OD2	ASP	X	130	53.432	57.077	31.791	0.00	0.00
ATOM	2006	C	ASP	X	130	51.557	53.660	31.029	0.00	0.00
ATOM	2007	O	ASP	X	130	51.944	52.716	30.349	0.00	0.00
ATOM	2008	N	GLY	X	131	50.572	54.471	30.682	0.00	0.00
ATOM	2009	H	GLY	X	131	50.241	55.151	31.352	0.00	0.00
ATOM	2010	CA	GLY	X	131	49.612	54.211	29.658	0.00	0.00
ATOM	2011	HA2	GLY	X	131	49.406	53.148	29.605	0.00	0.00
ATOM	2012	HA3	GLY	X	131	48.755	54.784	29.975	0.00	0.00
ATOM	2013	C	GLY	X	131	49.850	54.633	28.252	0.00	0.00
ATOM	2014	O	GLY	X	131	49.093	54.232	27.301	0.00	0.00
ATOM	2015	N	ARG	X	132	50.833	55.476	28.010	0.00	0.00
ATOM	2016	H	ARG	X	132	51.371	55.772	28.811	0.00	0.00
ATOM	2017	CA	ARG	X	132	50.994	56.257	26.763	0.00	0.00
ATOM	2018	HA	ARG	X	132	50.176	56.977	26.736	0.00	0.00
ATOM	2019	CB	ARG	X	132	52.322	57.048	26.852	0.00	0.00
ATOM	2020	HB2	ARG	X	132	52.160	57.870	26.154	0.00	0.00
ATOM	2021	HB3	ARG	X	132	52.409	57.444	27.864	0.00	0.00
ATOM	2022	CG	ARG	X	132	53.651	56.327	26.540	0.00	0.00
ATOM	2023	HG2	ARG	X	132	53.641	55.420	27.145	0.00	0.00
ATOM	2024	HG3	ARG	X	132	53.779	56.083	25.486	0.00	0.00
ATOM	2025	CD	ARG	X	132	54.965	56.933	26.979	0.00	0.00
ATOM	2026	HD2	ARG	X	132	55.836	56.301	26.811	0.00	0.00
ATOM	2027	HD3	ARG	X	132	54.991	57.971	26.647	0.00	0.00
ATOM	2028	NE	ARG	X	132	54.951	57.172	28.479	0.00	0.00

ATOM	2029	HE	ARG	X	132	54.177	56.764	28.984	0.00	0.00
ATOM	2030	CZ	ARG	X	132	55.855	57.835	29.164	0.00	0.00
ATOM	2031	NH1	ARG	X	132	56.957	58.220	28.490	0.00	0.00
ATOM	2032	HH11	ARG	X	132	56.882	58.229	27.483	0.00	0.00
ATOM	2033	HH12	ARG	X	132	57.568	58.905	28.913	0.00	0.00
ATOM	2034	NH2	ARG	X	132	55.717	57.942	30.500	0.00	0.00
ATOM	2035	HH21	ARG	X	132	54.809	57.818	30.926	0.00	0.00
ATOM	2036	HH22	ARG	X	132	56.522	58.293	30.999	0.00	0.00
ATOM	2037	C	ARG	X	132	50.943	55.535	25.385	0.00	0.00
ATOM	2038	O	ARG	X	132	50.339	55.975	24.436	0.00	0.00
ATOM	2039	N	PHE	X	133	51.630	54.368	25.436	0.00	0.00
ATOM	2040	H	PHE	X	133	52.001	54.033	26.313	0.00	0.00
ATOM	2041	CA	PHE	X	133	51.853	53.660	24.157	0.00	0.00
ATOM	2042	HA	PHE	X	133	52.236	54.370	23.424	0.00	0.00
ATOM	2043	CB	PHE	X	133	53.008	52.571	24.280	0.00	0.00
ATOM	2044	HB2	PHE	X	133	52.731	51.733	24.919	0.00	0.00
ATOM	2045	HB3	PHE	X	133	53.142	52.189	23.267	0.00	0.00
ATOM	2046	CG	PHE	X	133	54.385	53.018	24.760	0.00	0.00
ATOM	2047	CD1	PHE	X	133	54.954	52.421	25.849	0.00	0.00
ATOM	2048	HD1	PHE	X	133	54.533	51.585	26.386	0.00	0.00
ATOM	2049	CE1	PHE	X	133	56.241	52.737	26.249	0.00	0.00
ATOM	2050	HE1	PHE	X	133	56.665	52.232	27.104	0.00	0.00
ATOM	2051	CZ	PHE	X	133	56.928	53.841	25.706	0.00	0.00
ATOM	2052	HZ	PHE	X	133	57.925	54.111	26.021	0.00	0.00
ATOM	2053	CE2	PHE	X	133	56.335	54.479	24.630	0.00	0.00
ATOM	2054	HE2	PHE	X	133	56.806	55.315	24.133	0.00	0.00
ATOM	2055	CD2	PHE	X	133	55.072	54.110	24.174	0.00	0.00
ATOM	2056	HD2	PHE	X	133	54.544	54.649	23.401	0.00	0.00
ATOM	2057	C	PHE	X	133	50.561	52.948	23.743	0.00	0.00
ATOM	2058	O	PHE	X	133	50.258	52.954	22.568	0.00	0.00
ATOM	2059	N	LEU	X	134	49.758	52.383	24.706	0.00	0.00
ATOM	2060	H	LEU	X	134	50.131	52.405	25.644	0.00	0.00
ATOM	2061	CA	LEU	X	134	48.317	52.051	24.465	0.00	0.00
ATOM	2062	HA	LEU	X	134	48.298	51.279	23.696	0.00	0.00
ATOM	2063	CB	LEU	X	134	47.616	51.420	25.671	0.00	0.00
ATOM	2064	HB2	LEU	X	134	48.211	50.523	25.839	0.00	0.00
ATOM	2065	HB3	LEU	X	134	47.718	51.957	26.614	0.00	0.00
ATOM	2066	CG	LEU	X	134	46.163	50.923	25.431	0.00	0.00
ATOM	2067	HG	LEU	X	134	45.879	50.869	24.380	0.00	0.00
ATOM	2068	CD1	LEU	X	134	46.048	49.575	26.090	0.00	0.00
ATOM	2069	HD11	LEU	X	134	46.591	48.806	25.541	0.00	0.00
ATOM	2070	HD12	LEU	X	134	46.442	49.561	27.106	0.00	0.00
ATOM	2071	HD13	LEU	X	134	44.988	49.358	26.224	0.00	0.00
ATOM	2072	CD2	LEU	X	134	45.286	52.023	26.123	0.00	0.00
ATOM	2073	HD21	LEU	X	134	45.502	52.085	27.190	0.00	0.00
ATOM	2074	HD22	LEU	X	134	45.564	52.981	25.682	0.00	0.00
ATOM	2075	HD23	LEU	X	134	44.260	51.759	25.866	0.00	0.00
ATOM	2076	C	LEU	X	134	47.502	53.179	23.909	0.00	0.00
ATOM	2077	O	LEU	X	134	46.723	52.995	22.957	0.00	0.00
ATOM	2078	N	VAL	X	135	47.669	54.372	24.498	0.00	0.00
ATOM	2079	H	VAL	X	135	48.108	54.380	25.408	0.00	0.00
ATOM	2080	CA	VAL	X	135	46.748	55.472	24.257	0.00	0.00
ATOM	2081	HA	VAL	X	135	45.751	55.101	24.017	0.00	0.00
ATOM	2082	CB	VAL	X	135	46.595	56.522	25.477	0.00	0.00
ATOM	2083	HB	VAL	X	135	47.567	56.964	25.695	0.00	0.00
ATOM	2084	CG1	VAL	X	135	45.799	57.793	25.229	0.00	0.00
ATOM	2085	HG11	VAL	X	135	46.210	58.478	24.488	0.00	0.00
ATOM	2086	HG12	VAL	X	135	44.776	57.589	24.914	0.00	0.00
ATOM	2087	HG13	VAL	X	135	45.702	58.416	26.119	0.00	0.00
ATOM	2088	CG2	VAL	X	135	46.107	55.886	26.801	0.00	0.00
ATOM	2089	HG21	VAL	X	135	45.018	55.867	26.754	0.00	0.00
ATOM	2090	HG22	VAL	X	135	46.671	54.981	27.028	0.00	0.00
ATOM	2091	HG23	VAL	X	135	46.433	56.595	27.562	0.00	0.00
ATOM	2092	C	VAL	X	135	47.132	56.189	22.941	0.00	0.00
ATOM	2093	O	VAL	X	135	46.229	56.719	22.305	0.00	0.00
ATOM	2094	N	GLN	X	136	48.353	56.152	22.516	0.00	0.00
ATOM	2095	H	GLN	X	136	49.087	55.787	23.107	0.00	0.00
ATOM	2096	CA	GLN	X	136	48.703	56.565	21.129	0.00	0.00
ATOM	2097	HA	GLN	X	136	48.092	57.457	20.989	0.00	0.00
ATOM	2098	CB	GLN	X	136	50.203	56.941	21.067	0.00	0.00

ATOM	2099	HB2	GLN	X	136	50.407	57.806	21.697	0.00	0.00
ATOM	2100	HB3	GLN	X	136	50.795	56.080	21.380	0.00	0.00
ATOM	2101	CG	GLN	X	136	50.622	57.422	19.661	0.00	0.00
ATOM	2102	HG2	GLN	X	136	49.838	57.726	18.968	0.00	0.00
ATOM	2103	HG3	GLN	X	136	51.326	58.232	19.848	0.00	0.00
ATOM	2104	CD	GLN	X	136	51.461	56.324	18.984	0.00	0.00
ATOM	2105	OE1	GLN	X	136	52.623	56.089	19.218	0.00	0.00
ATOM	2106	NE2	GLN	X	136	50.846	55.450	18.207	0.00	0.00
ATOM	2107	HE21	GLN	X	136	51.345	54.821	17.595	0.00	0.00
ATOM	2108	HE22	GLN	X	136	49.887	55.652	17.964	0.00	0.00
ATOM	2109	C	GLN	X	136	48.367	55.474	20.058	0.00	0.00
ATOM	2110	O	GLN	X	136	48.015	55.896	18.966	0.00	0.00
ATOM	2111	N	ALA	X	137	48.353	54.199	20.323	0.00	0.00
ATOM	2112	H	ALA	X	137	48.687	53.833	21.203	0.00	0.00
ATOM	2113	CA	ALA	X	137	47.982	53.275	19.237	0.00	0.00
ATOM	2114	HA	ALA	X	137	48.316	53.622	18.259	0.00	0.00
ATOM	2115	CB	ALA	X	137	48.749	51.962	19.552	0.00	0.00
ATOM	2116	HB1	ALA	X	137	48.517	51.139	18.875	0.00	0.00
ATOM	2117	HB2	ALA	X	137	49.826	52.109	19.476	0.00	0.00
ATOM	2118	HB3	ALA	X	137	48.639	51.672	20.597	0.00	0.00
ATOM	2119	C	ALA	X	137	46.446	53.130	19.156	0.00	0.00
ATOM	2120	O	ALA	X	137	45.903	53.299	18.060	0.00	0.00
ATOM	2121	N	GLU	X	138	45.775	52.908	20.280	0.00	0.00
ATOM	2122	H	GLU	X	138	46.267	52.769	21.151	0.00	0.00
ATOM	2123	CA	GLU	X	138	44.414	52.571	20.327	0.00	0.00
ATOM	2124	HA	GLU	X	138	43.984	52.459	19.331	0.00	0.00
ATOM	2125	CB	GLU	X	138	44.209	51.299	21.207	0.00	0.00
ATOM	2126	HB2	GLU	X	138	44.598	51.470	22.211	0.00	0.00
ATOM	2127	HB3	GLU	X	138	43.149	51.100	21.364	0.00	0.00
ATOM	2128	CG	GLU	X	138	44.978	50.022	20.635	0.00	0.00
ATOM	2129	HG2	GLU	X	138	46.056	50.144	20.741	0.00	0.00
ATOM	2130	HG3	GLU	X	138	44.672	49.128	21.179	0.00	0.00
ATOM	2131	CD	GLU	X	138	44.568	49.888	19.150	0.00	0.00
ATOM	2132	OE1	GLU	X	138	43.336	49.978	18.917	0.00	0.00
ATOM	2133	OE2	GLU	X	138	45.393	49.588	18.251	0.00	0.00
ATOM	2134	C	GLU	X	138	43.497	53.671	20.931	0.00	0.00
ATOM	2135	O	GLU	X	138	42.237	53.620	20.752	0.00	0.00
ATOM	2136	N	ARG	X	139	43.940	54.534	21.788	0.00	0.00
ATOM	2137	H	ARG	X	139	44.943	54.591	21.893	0.00	0.00
ATOM	2138	CA	ARG	X	139	43.208	55.800	22.042	0.00	0.00
ATOM	2139	HA	ARG	X	139	43.901	56.409	22.623	0.00	0.00
ATOM	2140	CB	ARG	X	139	42.958	56.580	20.717	0.00	0.00
ATOM	2141	HB2	ARG	X	139	42.178	56.100	20.126	0.00	0.00
ATOM	2142	HB3	ARG	X	139	42.574	57.513	21.131	0.00	0.00
ATOM	2143	CG	ARG	X	139	44.141	56.867	19.873	0.00	0.00
ATOM	2144	HG2	ARG	X	139	44.790	57.554	20.416	0.00	0.00
ATOM	2145	HG3	ARG	X	139	44.739	55.988	19.636	0.00	0.00
ATOM	2146	CD	ARG	X	139	43.689	57.439	18.514	0.00	0.00
ATOM	2147	HD2	ARG	X	139	44.513	57.462	17.801	0.00	0.00
ATOM	2148	HD3	ARG	X	139	42.924	56.779	18.106	0.00	0.00
ATOM	2149	NE	ARG	X	139	43.165	58.854	18.617	0.00	0.00
ATOM	2150	HE	ARG	X	139	42.165	58.986	18.674	0.00	0.00
ATOM	2151	CZ	ARG	X	139	43.831	59.996	18.785	0.00	0.00
ATOM	2152	NH1	ARG	X	139	45.097	60.028	19.071	0.00	0.00
ATOM	2153	HH11	ARG	X	139	45.611	59.162	19.000	0.00	0.00
ATOM	2154	HH12	ARG	X	139	45.602	60.887	19.235	0.00	0.00
ATOM	2155	NH2	ARG	X	139	43.194	61.185	18.771	0.00	0.00
ATOM	2156	HH21	ARG	X	139	42.249	61.215	18.417	0.00	0.00
ATOM	2157	HH22	ARG	X	139	43.749	62.018	18.904	0.00	0.00
ATOM	2158	C	ARG	X	139	42.027	55.632	23.015	0.00	0.00
ATOM	2159	O	ARG	X	139	41.342	56.579	23.350	0.00	0.00
ATOM	2160	N	THR	X	140	41.857	54.433	23.551	0.00	0.00
ATOM	2161	H	THR	X	140	42.507	53.698	23.308	0.00	0.00
ATOM	2162	CA	THR	X	140	41.018	54.128	24.752	0.00	0.00
ATOM	2163	HA	THR	X	140	40.012	54.545	24.728	0.00	0.00
ATOM	2164	CB	THR	X	140	40.837	52.631	24.871	0.00	0.00
ATOM	2165	HB	THR	X	140	40.167	52.427	25.706	0.00	0.00
ATOM	2166	CG2	THR	X	140	40.050	52.114	23.641	0.00	0.00
ATOM	2167	HG21	THR	X	140	39.196	52.771	23.478	0.00	0.00
ATOM	2168	HG22	THR	X	140	40.605	52.213	22.708	0.00	0.00

ATOM	2169	HG23	THR	X	140	39.713	51.095	23.829	0.00	0.00
ATOM	2170	OG1	THR	X	140	42.097	51.938	24.920	0.00	0.00
ATOM	2171	HG1	THR	X	140	42.572	52.259	25.690	0.00	0.00
ATOM	2172	C	THR	X	140	41.783	54.712	26.010	0.00	0.00
ATOM	2173	O	THR	X	140	42.939	54.406	26.293	0.00	0.00
ATOM	2174	N	VAL	X	141	41.098	55.570	26.717	0.00	0.00
ATOM	2175	H	VAL	X	141	40.108	55.718	26.581	0.00	0.00
ATOM	2176	CA	VAL	X	141	41.658	56.341	27.916	0.00	0.00
ATOM	2177	HA	VAL	X	141	42.517	56.934	27.603	0.00	0.00
ATOM	2178	CB	VAL	X	141	40.457	57.268	28.481	0.00	0.00
ATOM	2179	HB	VAL	X	141	39.515	56.739	28.627	0.00	0.00
ATOM	2180	CG1	VAL	X	141	40.729	57.763	29.930	0.00	0.00
ATOM	2181	HG11	VAL	X	141	41.811	57.866	30.011	0.00	0.00
ATOM	2182	HG12	VAL	X	141	40.236	58.714	30.133	0.00	0.00
ATOM	2183	HG13	VAL	X	141	40.364	56.983	30.599	0.00	0.00
ATOM	2184	CG2	VAL	X	141	40.337	58.410	27.490	0.00	0.00
ATOM	2185	HG21	VAL	X	141	41.185	59.095	27.499	0.00	0.00
ATOM	2186	HG22	VAL	X	141	40.164	58.060	26.472	0.00	0.00
ATOM	2187	HG23	VAL	X	141	39.427	58.937	27.777	0.00	0.00
ATOM	2188	C	VAL	X	141	42.105	55.271	28.939	0.00	0.00
ATOM	2189	O	VAL	X	141	41.282	54.394	29.350	0.00	0.00
ATOM	2190	N	LEU	X	142	43.404	55.339	29.276	0.00	0.00
ATOM	2191	H	LEU	X	142	44.001	56.099	28.986	0.00	0.00
ATOM	2192	CA	LEU	X	142	43.920	54.516	30.428	0.00	0.00
ATOM	2193	HA	LEU	X	142	43.219	53.695	30.579	0.00	0.00
ATOM	2194	CB	LEU	X	142	45.305	53.953	30.096	0.00	0.00
ATOM	2195	HB2	LEU	X	142	45.212	53.481	29.118	0.00	0.00
ATOM	2196	HB3	LEU	X	142	45.978	54.801	29.965	0.00	0.00
ATOM	2197	CG	LEU	X	142	45.860	52.942	31.053	0.00	0.00
ATOM	2198	HG	LEU	X	142	46.638	52.425	30.490	0.00	0.00
ATOM	2199	CD1	LEU	X	142	46.529	53.724	32.258	0.00	0.00
ATOM	2200	HD11	LEU	X	142	46.826	52.972	32.990	0.00	0.00
ATOM	2201	HD12	LEU	X	142	47.424	54.153	31.807	0.00	0.00
ATOM	2202	HD13	LEU	X	142	45.851	54.459	32.692	0.00	0.00
ATOM	2203	CD2	LEU	X	142	44.895	51.819	31.470	0.00	0.00
ATOM	2204	HD21	LEU	X	142	44.068	52.300	31.992	0.00	0.00
ATOM	2205	HD22	LEU	X	142	44.616	51.173	30.637	0.00	0.00
ATOM	2206	HD23	LEU	X	142	45.300	51.222	32.286	0.00	0.00
ATOM	2207	C	LEU	X	142	43.740	55.348	31.691	0.00	0.00
ATOM	2208	O	LEU	X	142	44.274	56.443	31.821	0.00	0.00
ATOM	2209	N	VAL	X	143	43.035	54.850	32.705	0.00	0.00
ATOM	2210	H	VAL	X	143	42.453	54.053	32.490	0.00	0.00
ATOM	2211	CA	VAL	X	143	43.018	55.396	34.052	0.00	0.00
ATOM	2212	HA	VAL	X	143	43.523	56.360	34.109	0.00	0.00
ATOM	2213	CB	VAL	X	143	41.531	55.621	34.527	0.00	0.00
ATOM	2214	HB	VAL	X	143	41.058	54.645	34.422	0.00	0.00
ATOM	2215	CG1	VAL	X	143	41.477	56.046	35.991	0.00	0.00
ATOM	2216	HG11	VAL	X	143	41.841	55.298	36.695	0.00	0.00
ATOM	2217	HG12	VAL	X	143	42.064	56.955	36.126	0.00	0.00
ATOM	2218	HG13	VAL	X	143	40.468	56.324	36.296	0.00	0.00
ATOM	2219	CG2	VAL	X	143	40.712	56.542	33.657	0.00	0.00
ATOM	2220	HG21	VAL	X	143	41.146	57.534	33.789	0.00	0.00
ATOM	2221	HG22	VAL	X	143	40.688	56.182	32.628	0.00	0.00
ATOM	2222	HG23	VAL	X	143	39.713	56.631	34.084	0.00	0.00
ATOM	2223	C	VAL	X	143	43.657	54.321	34.948	0.00	0.00
ATOM	2224	O	VAL	X	143	43.605	53.154	34.719	0.00	0.00
ATOM	2225	N	SER	X	144	44.343	54.758	36.051	0.00	0.00
ATOM	2226	H	SER	X	144	44.352	55.740	36.288	0.00	0.00
ATOM	2227	CA	SER	X	144	44.717	53.821	37.099	0.00	0.00
ATOM	2228	HA	SER	X	144	44.092	52.929	37.048	0.00	0.00
ATOM	2229	CB	SER	X	144	46.112	53.301	36.847	0.00	0.00
ATOM	2230	HB2	SER	X	144	46.245	52.560	37.636	0.00	0.00
ATOM	2231	HB3	SER	X	144	46.358	52.807	35.907	0.00	0.00
ATOM	2232	OG	SER	X	144	47.101	54.263	36.943	0.00	0.00
ATOM	2233	HG	SER	X	144	47.947	53.837	36.788	0.00	0.00
ATOM	2234	C	SER	X	144	44.510	54.424	38.550	0.00	0.00
ATOM	2235	O	SER	X	144	44.814	55.554	38.767	0.00	0.00
ATOM	2236	N	MET	X	145	44.090	53.570	39.507	0.00	0.00
ATOM	2237	H	MET	X	145	44.041	52.581	39.304	0.00	0.00
ATOM	2238	CA	MET	X	145	43.777	53.968	40.904	0.00	0.00

ATOM	2239	HA	MET	X	145	43.728	55.054	40.985	0.00	0.00
ATOM	2240	CB	MET	X	145	42.334	53.395	41.307	0.00	0.00
ATOM	2241	HB2	MET	X	145	42.200	53.454	42.387	0.00	0.00
ATOM	2242	HB3	MET	X	145	41.529	53.937	40.811	0.00	0.00
ATOM	2243	CG	MET	X	145	42.100	51.977	40.931	0.00	0.00
ATOM	2244	HG2	MET	X	145	41.967	51.969	39.849	0.00	0.00
ATOM	2245	HG3	MET	X	145	42.974	51.384	41.198	0.00	0.00
ATOM	2246	SD	MET	X	145	40.639	51.316	41.699	0.00	0.00
ATOM	2247	CE	MET	X	145	39.367	51.700	40.448	0.00	0.00
ATOM	2248	HE1	MET	X	145	39.366	50.887	39.723	0.00	0.00
ATOM	2249	HE2	MET	X	145	38.399	51.959	40.877	0.00	0.00
ATOM	2250	HE3	MET	X	145	39.690	52.532	39.822	0.00	0.00
ATOM	2251	C	MET	X	145	44.827	53.571	41.963	0.00	0.00
ATOM	2252	O	MET	X	145	45.717	52.792	41.626	0.00	0.00
ATOM	2253	N	ASN	X	146	44.664	53.923	43.177	0.00	0.00
ATOM	2254	H	ASN	X	146	43.978	54.610	43.455	0.00	0.00
ATOM	2255	CA	ASN	X	146	45.480	53.405	44.231	0.00	0.00
ATOM	2256	HA	ASN	X	146	45.794	52.424	43.874	0.00	0.00
ATOM	2257	CB	ASN	X	146	46.801	54.220	44.303	0.00	0.00
ATOM	2258	HB2	ASN	X	146	47.265	54.465	43.348	0.00	0.00
ATOM	2259	HB3	ASN	X	146	46.558	55.140	44.835	0.00	0.00
ATOM	2260	CG	ASN	X	146	47.854	53.535	45.218	0.00	0.00
ATOM	2261	OD1	ASN	X	146	48.264	52.452	44.853	0.00	0.00
ATOM	2262	ND2	ASN	X	146	48.310	54.068	46.291	0.00	0.00
ATOM	2263	HD21	ASN	X	146	49.204	53.676	46.548	0.00	0.00
ATOM	2264	HD22	ASN	X	146	47.897	54.892	46.706	0.00	0.00
ATOM	2265	C	ASN	X	146	44.680	53.317	45.555	0.00	0.00
ATOM	2266	O	ASN	X	146	43.750	54.083	45.720	0.00	0.00
ATOM	2267	N	TYR	X	147	44.962	52.409	46.450	0.00	0.00
ATOM	2268	H	TYR	X	147	45.862	51.964	46.335	0.00	0.00
ATOM	2269	CA	TYR	X	147	44.120	51.892	47.492	0.00	0.00
ATOM	2270	HA	TYR	X	147	43.629	52.785	47.877	0.00	0.00
ATOM	2271	CB	TYR	X	147	42.895	51.107	46.885	0.00	0.00
ATOM	2272	HB2	TYR	X	147	42.284	50.759	47.718	0.00	0.00
ATOM	2273	HB3	TYR	X	147	42.263	51.886	46.458	0.00	0.00
ATOM	2274	CG	TYR	X	147	43.305	50.108	45.807	0.00	0.00
ATOM	2275	CD1	TYR	X	147	43.298	50.525	44.455	0.00	0.00
ATOM	2276	HD1	TYR	X	147	42.996	51.543	44.259	0.00	0.00
ATOM	2277	CE1	TYR	X	147	43.760	49.577	43.531	0.00	0.00
ATOM	2278	HE1	TYR	X	147	43.760	49.809	42.476	0.00	0.00
ATOM	2279	CZ	TYR	X	147	44.139	48.286	43.886	0.00	0.00
ATOM	2280	OH	TYR	X	147	44.572	47.434	42.980	0.00	0.00
ATOM	2281	HH	TYR	X	147	44.890	46.558	43.210	0.00	0.00
ATOM	2282	CE2	TYR	X	147	44.049	47.918	45.236	0.00	0.00
ATOM	2283	HE2	TYR	X	147	44.281	46.945	45.641	0.00	0.00
ATOM	2284	CD2	TYR	X	147	43.559	48.826	46.173	0.00	0.00
ATOM	2285	HD2	TYR	X	147	43.413	48.536	47.203	0.00	0.00
ATOM	2286	C	TYR	X	147	44.913	51.056	48.537	0.00	0.00
ATOM	2287	O	TYR	X	147	46.057	50.677	48.315	0.00	0.00
ATOM	2288	N	ARG	X	148	44.230	50.961	49.661	0.00	0.00
ATOM	2289	H	ARG	X	148	43.364	51.460	49.809	0.00	0.00
ATOM	2290	CA	ARG	X	148	44.811	50.293	50.813	0.00	0.00
ATOM	2291	HA	ARG	X	148	45.830	50.593	51.060	0.00	0.00
ATOM	2292	CB	ARG	X	148	44.057	50.694	52.081	0.00	0.00
ATOM	2293	HB2	ARG	X	148	43.010	50.410	51.972	0.00	0.00
ATOM	2294	HB3	ARG	X	148	44.518	50.143	52.900	0.00	0.00
ATOM	2295	CG	ARG	X	148	44.318	52.173	52.406	0.00	0.00
ATOM	2296	HG2	ARG	X	148	45.279	52.326	52.897	0.00	0.00
ATOM	2297	HG3	ARG	X	148	44.150	52.832	51.554	0.00	0.00
ATOM	2298	CD	ARG	X	148	43.329	52.568	53.528	0.00	0.00
ATOM	2299	HD2	ARG	X	148	43.574	52.026	54.441	0.00	0.00
ATOM	2300	HD3	ARG	X	148	43.537	53.591	53.844	0.00	0.00
ATOM	2301	NE	ARG	X	148	41.964	52.456	53.108	0.00	0.00
ATOM	2302	HE	ARG	X	148	41.772	52.358	52.121	0.00	0.00
ATOM	2303	CZ	ARG	X	148	40.905	52.685	53.899	0.00	0.00
ATOM	2304	NH1	ARG	X	148	40.956	52.979	55.153	0.00	0.00
ATOM	2305	HH11	ARG	X	148	41.892	53.006	55.530	0.00	0.00
ATOM	2306	HH12	ARG	X	148	40.139	53.149	55.722	0.00	0.00
ATOM	2307	NH2	ARG	X	148	39.730	52.689	53.379	0.00	0.00
ATOM	2308	HH21	ARG	X	148	39.608	52.625	52.378	0.00	0.00

ATOM	2309	HH22	ARG	X	148	38.857	52.845	53.861	0.00	0.00
ATOM	2310	C	ARG	X	148	44.786	48.778	50.646	0.00	0.00
ATOM	2311	O	ARG	X	148	43.804	48.124	50.306	0.00	0.00
ATOM	2312	N	VAL	X	149	45.971	48.290	50.920	0.00	0.00
ATOM	2313	H	VAL	X	149	46.738	48.942	50.837	0.00	0.00
ATOM	2314	CA	VAL	X	149	46.391	46.833	50.864	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.500	46.230	50.687	0.00	0.00
ATOM	2316	CB	VAL	X	149	47.272	46.507	49.678	0.00	0.00
ATOM	2317	HB	VAL	X	149	47.756	45.558	49.905	0.00	0.00
ATOM	2318	CG1	VAL	X	149	46.417	46.245	48.387	0.00	0.00
ATOM	2319	HG11	VAL	X	149	45.519	45.703	48.684	0.00	0.00
ATOM	2320	HG12	VAL	X	149	45.981	47.099	47.867	0.00	0.00
ATOM	2321	HG13	VAL	X	149	47.014	45.693	47.662	0.00	0.00
ATOM	2322	CG2	VAL	X	149	48.386	47.519	49.457	0.00	0.00
ATOM	2323	HG21	VAL	X	149	49.158	47.025	48.866	0.00	0.00
ATOM	2324	HG22	VAL	X	149	47.968	48.305	48.830	0.00	0.00
ATOM	2325	HG23	VAL	X	149	48.664	47.903	50.439	0.00	0.00
ATOM	2326	C	VAL	X	149	47.014	46.407	52.197	0.00	0.00
ATOM	2327	O	VAL	X	149	47.342	47.285	53.013	0.00	0.00
ATOM	2328	N	GLY	X	150	47.126	45.089	52.480	0.00	0.00
ATOM	2329	H	GLY	X	150	46.719	44.413	51.850	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.480	44.676	53.822	0.00	0.00
ATOM	2331	HA2	GLY	X	150	47.557	43.599	53.824	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.359	45.161	54.194	0.00	0.00
ATOM	2333	C	GLY	X	150	46.315	44.891	54.743	0.00	0.00
ATOM	2334	O	GLY	X	150	45.150	45.102	54.385	0.00	0.00
ATOM	2335	N	ALA	X	151	46.612	44.803	55.992	0.00	0.00
ATOM	2336	H	ALA	X	151	47.601	44.625	56.094	0.00	0.00
ATOM	2337	CA	ALA	X	151	45.708	45.152	57.121	0.00	0.00
ATOM	2338	HA	ALA	X	151	44.949	44.371	57.097	0.00	0.00
ATOM	2339	CB	ALA	X	151	46.533	45.041	58.407	0.00	0.00
ATOM	2340	HB1	ALA	X	151	47.119	45.918	58.683	0.00	0.00
ATOM	2341	HB2	ALA	X	151	45.770	44.837	59.158	0.00	0.00
ATOM	2342	HB3	ALA	X	151	47.181	44.170	58.499	0.00	0.00
ATOM	2343	C	ALA	X	151	44.922	46.426	56.962	0.00	0.00
ATOM	2344	O	ALA	X	151	43.784	46.435	57.325	0.00	0.00
ATOM	2345	N	PHE	X	152	45.537	47.516	56.328	0.00	0.00
ATOM	2346	H	PHE	X	152	46.518	47.359	56.144	0.00	0.00
ATOM	2347	CA	PHE	X	152	44.854	48.830	56.163	0.00	0.00
ATOM	2348	HA	PHE	X	152	44.581	49.322	57.097	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.922	49.788	55.478	0.00	0.00
ATOM	2350	HB2	PHE	X	152	46.202	49.332	54.529	0.00	0.00
ATOM	2351	HB3	PHE	X	152	45.315	50.666	55.256	0.00	0.00
ATOM	2352	CG	PHE	X	152	47.195	50.038	56.323	0.00	0.00
ATOM	2353	CD1	PHE	X	152	48.323	49.150	56.160	0.00	0.00
ATOM	2354	HD1	PHE	X	152	48.377	48.398	55.386	0.00	0.00
ATOM	2355	CE1	PHE	X	152	49.336	49.084	57.153	0.00	0.00
ATOM	2356	HE1	PHE	X	152	50.110	48.344	57.014	0.00	0.00
ATOM	2357	CZ	PHE	X	152	49.416	50.113	58.142	0.00	0.00
ATOM	2358	HZ	PHE	X	152	50.210	50.266	58.858	0.00	0.00
ATOM	2359	CE2	PHE	X	152	48.391	51.140	58.151	0.00	0.00
ATOM	2360	HE2	PHE	X	152	48.544	52.001	58.785	0.00	0.00
ATOM	2361	CD2	PHE	X	152	47.265	51.027	57.335	0.00	0.00
ATOM	2362	HD2	PHE	X	152	46.459	51.745	57.339	0.00	0.00
ATOM	2363	C	PHE	X	152	43.620	48.772	55.222	0.00	0.00
ATOM	2364	O	PHE	X	152	42.958	49.770	55.119	0.00	0.00
ATOM	2365	N	GLY	X	153	43.362	47.615	54.569	0.00	0.00
ATOM	2366	H	GLY	X	153	44.021	46.851	54.609	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.134	47.460	53.657	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.656	48.413	53.493	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.502	46.960	52.708	0.00	0.00
ATOM	2370	C	GLY	X	153	41.215	46.344	54.176	0.00	0.00
ATOM	2371	O	GLY	X	153	40.027	46.387	53.794	0.00	0.00
ATOM	2372	N	PHE	X	154	41.809	45.343	54.835	0.00	0.00
ATOM	2373	H	PHE	X	154	42.794	45.506	54.986	0.00	0.00
ATOM	2374	CA	PHE	X	154	41.374	43.959	54.874	0.00	0.00
ATOM	2375	HA	PHE	X	154	40.315	43.858	54.637	0.00	0.00
ATOM	2376	CB	PHE	X	154	42.163	43.207	53.787	0.00	0.00
ATOM	2377	HB2	PHE	X	154	43.233	43.294	53.980	0.00	0.00
ATOM	2378	HB3	PHE	X	154	41.776	42.191	53.855	0.00	0.00

ATOM	2379	CG	PHE	X	154	41.882	43.632	52.340	0.00	0.00
ATOM	2380	CD1	PHE	X	154	42.886	44.197	51.516	0.00	0.00
ATOM	2381	HD1	PHE	X	154	43.907	44.207	51.866	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.587	44.801	50.240	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.394	45.270	49.695	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.264	44.766	49.858	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.017	45.167	48.886	0.00	0.00
ATOM	2386	CE2	PHE	X	154	40.299	44.207	50.665	0.00	0.00
ATOM	2387	HE2	PHE	X	154	39.278	44.299	50.326	0.00	0.00
ATOM	2388	CD2	PHE	X	154	40.571	43.518	51.849	0.00	0.00
ATOM	2389	HD2	PHE	X	154	39.719	43.135	52.391	0.00	0.00
ATOM	2390	C	PHE	X	154	41.635	43.314	56.258	0.00	0.00
ATOM	2391	O	PHE	X	154	41.362	42.140	56.321	0.00	0.00
ATOM	2392	N	LEU	X	155	42.019	44.017	57.314	0.00	0.00
ATOM	2393	H	LEU	X	155	42.139	45.014	57.207	0.00	0.00
ATOM	2394	CA	LEU	X	155	41.738	43.653	58.699	0.00	0.00
ATOM	2395	HA	LEU	X	155	41.980	42.600	58.844	0.00	0.00
ATOM	2396	CB	LEU	X	155	42.568	44.590	59.507	0.00	0.00
ATOM	2397	HB2	LEU	X	155	43.599	44.394	59.212	0.00	0.00
ATOM	2398	HB3	LEU	X	155	42.361	45.628	59.247	0.00	0.00
ATOM	2399	CG	LEU	X	155	42.610	44.195	60.983	0.00	0.00
ATOM	2400	HG	LEU	X	155	42.286	43.172	61.173	0.00	0.00
ATOM	2401	CD1	LEU	X	155	44.063	44.369	61.652	0.00	0.00
ATOM	2402	HD11	LEU	X	155	44.557	43.433	61.391	0.00	0.00
ATOM	2403	HD12	LEU	X	155	44.491	45.282	61.238	0.00	0.00
ATOM	2404	HD13	LEU	X	155	44.089	44.455	62.738	0.00	0.00
ATOM	2405	CD2	LEU	X	155	41.715	45.132	61.727	0.00	0.00
ATOM	2406	HD21	LEU	X	155	41.675	44.895	62.790	0.00	0.00
ATOM	2407	HD22	LEU	X	155	42.031	46.162	61.564	0.00	0.00
ATOM	2408	HD23	LEU	X	155	40.716	44.997	61.312	0.00	0.00
ATOM	2409	C	LEU	X	155	40.264	43.873	59.037	0.00	0.00
ATOM	2410	O	LEU	X	155	39.600	44.855	58.606	0.00	0.00
ATOM	2411	N	ALA	X	156	39.702	42.980	59.858	0.00	0.00
ATOM	2412	H	ALA	X	156	40.330	42.256	60.178	0.00	0.00
ATOM	2413	CA	ALA	X	156	38.340	42.978	60.328	0.00	0.00
ATOM	2414	HA	ALA	X	156	37.989	44.010	60.303	0.00	0.00
ATOM	2415	CB	ALA	X	156	37.551	42.140	59.360	0.00	0.00
ATOM	2416	HB1	ALA	X	156	36.517	42.158	59.707	0.00	0.00
ATOM	2417	HB2	ALA	X	156	37.509	42.606	58.376	0.00	0.00
ATOM	2418	HB3	ALA	X	156	37.856	41.094	59.392	0.00	0.00
ATOM	2419	C	ALA	X	156	38.291	42.509	61.754	0.00	0.00
ATOM	2420	O	ALA	X	156	38.841	41.496	62.185	0.00	0.00
ATOM	2421	N	LEU	X	157	37.269	43.033	62.466	0.00	0.00
ATOM	2422	H	LEU	X	157	36.768	43.820	62.080	0.00	0.00
ATOM	2423	CA	LEU	X	157	36.741	42.495	63.674	0.00	0.00
ATOM	2424	HA	LEU	X	157	37.109	41.475	63.782	0.00	0.00
ATOM	2425	CB	LEU	X	157	37.259	43.408	64.793	0.00	0.00
ATOM	2426	HB2	LEU	X	157	38.344	43.474	64.710	0.00	0.00
ATOM	2427	HB3	LEU	X	157	36.907	44.420	64.591	0.00	0.00
ATOM	2428	CG	LEU	X	157	36.733	42.956	66.182	0.00	0.00
ATOM	2429	HG	LEU	X	157	35.679	42.678	66.198	0.00	0.00
ATOM	2430	CD1	LEU	X	157	37.546	41.674	66.574	0.00	0.00
ATOM	2431	HD11	LEU	X	157	37.237	41.403	67.584	0.00	0.00
ATOM	2432	HD12	LEU	X	157	37.369	40.879	65.850	0.00	0.00
ATOM	2433	HD13	LEU	X	157	38.586	41.999	66.583	0.00	0.00
ATOM	2434	CD2	LEU	X	157	36.981	44.026	67.210	0.00	0.00
ATOM	2435	HD21	LEU	X	157	36.679	43.714	68.209	0.00	0.00
ATOM	2436	HD22	LEU	X	157	38.051	44.233	67.182	0.00	0.00
ATOM	2437	HD23	LEU	X	157	36.404	44.931	67.022	0.00	0.00
ATOM	2438	C	LEU	X	157	35.259	42.454	63.454	0.00	0.00
ATOM	2439	O	LEU	X	157	34.621	43.491	63.242	0.00	0.00
ATOM	2440	N	PRO	X	158	34.656	41.222	63.564	0.00	0.00
ATOM	2441	CD	PRO	X	158	35.190	39.891	63.872	0.00	0.00
ATOM	2442	HD2	PRO	X	158	35.551	39.849	64.899	0.00	0.00
ATOM	2443	HD3	PRO	X	158	36.040	39.633	63.240	0.00	0.00
ATOM	2444	CG	PRO	X	158	34.030	38.913	63.574	0.00	0.00
ATOM	2445	HG2	PRO	X	158	33.447	38.702	64.471	0.00	0.00
ATOM	2446	HG3	PRO	X	158	34.398	37.961	63.190	0.00	0.00
ATOM	2447	CB	PRO	X	158	33.097	39.687	62.654	0.00	0.00
ATOM	2448	HB2	PRO	X	158	32.150	39.150	62.715	0.00	0.00

ATOM	2449	HB3	PRO	X	158	33.613	39.526	61.708	0.00	0.00
ATOM	2450	CA	PRO	X	158	33.232	41.107	63.247	0.00	0.00
ATOM	2451	HA	PRO	X	158	32.960	41.878	62.527	0.00	0.00
ATOM	2452	C	PRO	X	158	32.474	41.377	64.580	0.00	0.00
ATOM	2453	O	PRO	X	158	32.916	41.097	65.673	0.00	0.00
ATOM	2454	N	GLY	X	159	31.263	41.830	64.411	0.00	0.00
ATOM	2455	H	GLY	X	159	30.903	42.039	63.491	0.00	0.00
ATOM	2456	CA	GLY	X	159	30.439	42.309	65.451	0.00	0.00
ATOM	2457	HA2	GLY	X	159	29.355	42.137	65.251	0.00	0.00
ATOM	2458	HA3	GLY	X	159	30.773	41.767	66.401	0.00	0.00
ATOM	2459	C	GLY	X	159	30.766	43.769	65.748	0.00	0.00
ATOM	2460	O	GLY	X	159	30.083	44.327	66.641	0.00	0.00
ATOM	2461	N	SER	X	160	31.755	44.444	65.085	0.00	0.00
ATOM	2462	H	SER	X	160	32.307	43.964	64.389	0.00	0.00
ATOM	2463	CA	SER	X	160	32.407	45.673	65.507	0.00	0.00
ATOM	2464	HA	SER	X	160	31.719	46.148	66.206	0.00	0.00
ATOM	2465	CB	SER	X	160	33.723	45.221	66.205	0.00	0.00
ATOM	2466	HB2	SER	X	160	34.319	44.555	65.580	0.00	0.00
ATOM	2467	HB3	SER	X	160	34.230	46.141	66.498	0.00	0.00
ATOM	2468	OG	SER	X	160	33.512	44.371	67.363	0.00	0.00
ATOM	2469	HG	SER	X	160	33.309	45.004	68.055	0.00	0.00
ATOM	2470	C	SER	X	160	32.554	46.623	64.345	0.00	0.00
ATOM	2471	O	SER	X	160	33.510	46.607	63.557	0.00	0.00
ATOM	2472	N	ARG	X	161	31.523	47.477	64.196	0.00	0.00
ATOM	2473	H	ARG	X	161	30.877	47.505	64.973	0.00	0.00
ATOM	2474	CA	ARG	X	161	31.214	48.428	63.086	0.00	0.00
ATOM	2475	HA	ARG	X	161	31.000	47.842	62.192	0.00	0.00
ATOM	2476	CB	ARG	X	161	29.765	49.083	63.265	0.00	0.00
ATOM	2477	HB2	ARG	X	161	29.310	48.592	64.125	0.00	0.00
ATOM	2478	HB3	ARG	X	161	29.774	50.117	63.610	0.00	0.00
ATOM	2479	CG	ARG	X	161	28.803	48.997	62.079	0.00	0.00
ATOM	2480	HG2	ARG	X	161	29.086	49.622	61.232	0.00	0.00
ATOM	2481	HG3	ARG	X	161	28.831	48.027	61.583	0.00	0.00
ATOM	2482	CD	ARG	X	161	27.369	49.449	62.425	0.00	0.00
ATOM	2483	HD2	ARG	X	161	27.414	50.520	62.621	0.00	0.00
ATOM	2484	HD3	ARG	X	161	26.659	49.350	61.604	0.00	0.00
ATOM	2485	NE	ARG	X	161	26.847	48.827	63.690	0.00	0.00
ATOM	2486	HE	ARG	X	161	27.414	48.089	64.083	0.00	0.00
ATOM	2487	CZ	ARG	X	161	25.727	49.035	64.264	0.00	0.00
ATOM	2488	NH1	ARG	X	161	24.767	49.767	63.714	0.00	0.00
ATOM	2489	HH11	ARG	X	161	25.024	50.205	62.841	0.00	0.00
ATOM	2490	HH12	ARG	X	161	23.866	49.978	64.120	0.00	0.00
ATOM	2491	NH2	ARG	X	161	25.549	48.482	65.419	0.00	0.00
ATOM	2492	HH21	ARG	X	161	26.227	47.844	65.811	0.00	0.00
ATOM	2493	HH22	ARG	X	161	24.699	48.615	65.947	0.00	0.00
ATOM	2494	C	ARG	X	161	32.285	49.480	62.870	0.00	0.00
ATOM	2495	O	ARG	X	161	32.257	50.226	61.883	0.00	0.00
ATOM	2496	N	GLU	X	162	33.251	49.576	63.801	0.00	0.00
ATOM	2497	H	GLU	X	162	33.206	49.073	64.675	0.00	0.00
ATOM	2498	CA	GLU	X	162	34.432	50.453	63.682	0.00	0.00
ATOM	2499	HA	GLU	X	162	34.226	51.375	63.138	0.00	0.00
ATOM	2500	CB	GLU	X	162	34.867	50.887	65.056	0.00	0.00
ATOM	2501	HB2	GLU	X	162	35.788	51.431	64.848	0.00	0.00
ATOM	2502	HB3	GLU	X	162	34.182	51.630	65.464	0.00	0.00
ATOM	2503	CG	GLU	X	162	35.080	49.690	66.034	0.00	0.00
ATOM	2504	HG2	GLU	X	162	35.519	48.806	65.570	0.00	0.00
ATOM	2505	HG3	GLU	X	162	35.905	50.011	66.669	0.00	0.00
ATOM	2506	CD	GLU	X	162	33.905	49.398	66.901	0.00	0.00
ATOM	2507	OE1	GLU	X	162	32.927	48.804	66.380	0.00	0.00
ATOM	2508	OE2	GLU	X	162	33.843	49.881	68.065	0.00	0.00
ATOM	2509	C	GLU	X	162	35.576	49.676	63.034	0.00	0.00
ATOM	2510	O	GLU	X	162	36.526	50.353	62.621	0.00	0.00
ATOM	2511	N	ALA	X	163	35.586	48.359	62.821	0.00	0.00
ATOM	2512	H	ALA	X	163	34.811	47.851	63.223	0.00	0.00
ATOM	2513	CA	ALA	X	163	36.607	47.617	62.056	0.00	0.00
ATOM	2514	HA	ALA	X	163	36.950	48.286	61.266	0.00	0.00
ATOM	2515	CB	ALA	X	163	37.783	47.212	62.950	0.00	0.00
ATOM	2516	HB1	ALA	X	163	38.536	46.670	62.377	0.00	0.00
ATOM	2517	HB2	ALA	X	163	38.220	48.059	63.479	0.00	0.00
ATOM	2518	HB3	ALA	X	163	37.227	46.600	63.660	0.00	0.00

ATOM	2519	C	ALA	X	163	35.973	46.541	61.173	0.00	0.00
ATOM	2520	O	ALA	X	163	36.148	45.317	61.340	0.00	0.00
ATOM	2521	N	PRO	X	164	35.138	47.028	60.147	0.00	0.00
ATOM	2522	CD	PRO	X	164	34.856	48.393	59.821	0.00	0.00
ATOM	2523	HD2	PRO	X	164	35.751	49.009	59.727	0.00	0.00
ATOM	2524	HD3	PRO	X	164	34.192	48.877	60.536	0.00	0.00
ATOM	2525	CG	PRO	X	164	34.163	48.558	58.462	0.00	0.00
ATOM	2526	HG2	PRO	X	164	34.971	48.500	57.733	0.00	0.00
ATOM	2527	HG3	PRO	X	164	33.549	49.456	58.521	0.00	0.00
ATOM	2528	CB	PRO	X	164	33.363	47.276	58.635	0.00	0.00
ATOM	2529	HB2	PRO	X	164	32.980	46.870	57.699	0.00	0.00
ATOM	2530	HB3	PRO	X	164	32.475	47.487	59.231	0.00	0.00
ATOM	2531	CA	PRO	X	164	34.193	46.249	59.358	0.00	0.00
ATOM	2532	HA	PRO	X	164	33.591	45.599	59.993	0.00	0.00
ATOM	2533	C	PRO	X	164	34.844	45.255	58.357	0.00	0.00
ATOM	2534	O	PRO	X	164	34.172	44.277	58.012	0.00	0.00
ATOM	2535	N	GLY	X	165	36.083	45.529	57.926	0.00	0.00
ATOM	2536	H	GLY	X	165	36.593	46.325	58.282	0.00	0.00
ATOM	2537	CA	GLY	X	165	36.700	44.718	56.872	0.00	0.00
ATOM	2538	HA2	GLY	X	165	37.799	44.720	56.892	0.00	0.00
ATOM	2539	HA3	GLY	X	165	36.344	43.718	57.045	0.00	0.00
ATOM	2540	C	GLY	X	165	36.407	45.179	55.387	0.00	0.00
ATOM	2541	O	GLY	X	165	35.464	45.963	55.226	0.00	0.00
ATOM	2542	N	ASN	X	166	37.160	44.699	54.382	0.00	0.00
ATOM	2543	H	ASN	X	166	37.906	44.069	54.640	0.00	0.00
ATOM	2544	CA	ASN	X	166	36.985	44.953	52.961	0.00	0.00
ATOM	2545	HA	ASN	X	166	37.754	44.417	52.405	0.00	0.00
ATOM	2546	CB	ASN	X	166	35.635	44.356	52.491	0.00	0.00
ATOM	2547	HB2	ASN	X	166	34.764	44.877	52.886	0.00	0.00
ATOM	2548	HB3	ASN	X	166	35.552	44.434	51.407	0.00	0.00
ATOM	2549	CG	ASN	X	166	35.536	42.836	52.799	0.00	0.00
ATOM	2550	OD1	ASN	X	166	36.557	42.156	52.901	0.00	0.00
ATOM	2551	ND2	ASN	X	166	34.413	42.283	53.132	0.00	0.00
ATOM	2552	HD21	ASN	X	166	34.405	41.284	53.283	0.00	0.00
ATOM	2553	HD22	ASN	X	166	33.576	42.846	53.188	0.00	0.00
ATOM	2554	C	ASN	X	166	37.064	46.421	52.513	0.00	0.00
ATOM	2555	O	ASN	X	166	37.009	46.642	51.318	0.00	0.00
ATOM	2556	N	VAL	X	167	37.264	47.459	53.362	0.00	0.00
ATOM	2557	H	VAL	X	167	37.237	47.371	54.368	0.00	0.00
ATOM	2558	CA	VAL	X	167	37.424	48.830	52.978	0.00	0.00
ATOM	2559	HA	VAL	X	167	36.428	48.976	52.561	0.00	0.00
ATOM	2560	CB	VAL	X	167	37.549	49.845	54.113	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.656	50.852	53.709	0.00	0.00
ATOM	2562	CG1	VAL	X	167	36.206	49.772	54.894	0.00	0.00
ATOM	2563	HG11	VAL	X	167	35.984	48.738	55.159	0.00	0.00
ATOM	2564	HG12	VAL	X	167	36.293	50.321	55.831	0.00	0.00
ATOM	2565	HG13	VAL	X	167	35.296	50.194	54.467	0.00	0.00
ATOM	2566	CG2	VAL	X	167	38.751	49.540	55.037	0.00	0.00
ATOM	2567	HG21	VAL	X	167	39.638	49.465	54.407	0.00	0.00
ATOM	2568	HG22	VAL	X	167	38.919	50.386	55.704	0.00	0.00
ATOM	2569	HG23	VAL	X	167	38.565	48.677	55.676	0.00	0.00
ATOM	2570	C	VAL	X	167	38.480	49.121	51.864	0.00	0.00
ATOM	2571	O	VAL	X	167	38.501	50.271	51.420	0.00	0.00
ATOM	2572	N	GLY	X	168	39.468	48.228	51.675	0.00	0.00
ATOM	2573	H	GLY	X	168	39.492	47.380	52.224	0.00	0.00
ATOM	2574	CA	GLY	X	168	40.321	48.185	50.494	0.00	0.00
ATOM	2575	HA2	GLY	X	168	40.922	49.118	50.420	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.976	47.324	50.622	0.00	0.00
ATOM	2577	C	GLY	X	168	39.593	47.987	49.183	0.00	0.00
ATOM	2578	O	GLY	X	168	40.025	48.529	48.133	0.00	0.00
ATOM	2579	N	LEU	X	169	38.475	47.270	49.149	0.00	0.00
ATOM	2580	H	LEU	X	169	38.027	46.934	49.990	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.612	47.260	47.919	0.00	0.00
ATOM	2582	HA	LEU	X	169	38.257	47.182	47.044	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.682	45.974	48.023	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.209	46.047	49.002	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.896	45.926	47.268	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.441	44.634	47.836	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.262	44.580	48.551	0.00	0.00
ATOM	2588	CD1	LEU	X	169	36.389	43.504	48.116	0.00	0.00

ATOM	2589	HD11	LEU	X	169	35.553	43.583	47.421	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.863	42.523	48.093	0.00	0.00
ATOM	2591	HD13	LEU	X	169	35.962	43.563	49.117	0.00	0.00
ATOM	2592	CD2	LEU	X	169	38.102	44.411	46.489	0.00	0.00
ATOM	2593	HD21	LEU	X	169	38.729	43.542	46.685	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.409	44.190	45.677	0.00	0.00
ATOM	2595	HD23	LEU	X	169	38.681	45.301	46.240	0.00	0.00
ATOM	2596	C	LEU	X	169	36.734	48.479	47.839	0.00	0.00
ATOM	2597	O	LEU	X	169	36.394	48.896	46.753	0.00	0.00
ATOM	2598	N	LEU	X	170	36.324	49.019	48.990	0.00	0.00
ATOM	2599	H	LEU	X	170	36.686	48.723	49.885	0.00	0.00
ATOM	2600	CA	LEU	X	170	35.452	50.191	49.076	0.00	0.00
ATOM	2601	HA	LEU	X	170	34.658	49.971	48.363	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.830	50.223	50.517	0.00	0.00
ATOM	2603	HB2	LEU	X	170	34.331	49.260	50.627	0.00	0.00
ATOM	2604	HB3	LEU	X	170	35.608	50.372	51.266	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.718	51.203	50.732	0.00	0.00
ATOM	2606	HG	LEU	X	170	34.012	52.246	50.625	0.00	0.00
ATOM	2607	CD1	LEU	X	170	32.558	50.888	49.769	0.00	0.00
ATOM	2608	HD11	LEU	X	170	32.880	51.001	48.733	0.00	0.00
ATOM	2609	HD12	LEU	X	170	32.046	49.937	49.913	0.00	0.00
ATOM	2610	HD13	LEU	X	170	31.731	51.562	49.990	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.169	51.033	52.181	0.00	0.00
ATOM	2612	HD21	LEU	X	170	32.799	50.012	52.279	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.968	51.127	52.916	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.335	51.704	52.389	0.00	0.00
ATOM	2615	C	LEU	X	170	36.125	51.460	48.541	0.00	0.00
ATOM	2616	O	LEU	X	170	35.460	52.238	47.848	0.00	0.00
ATOM	2617	N	ASP	X	171	37.428	51.588	48.805	0.00	0.00
ATOM	2618	H	ASP	X	171	37.860	51.015	49.516	0.00	0.00
ATOM	2619	CA	ASP	X	171	38.308	52.527	48.083	0.00	0.00
ATOM	2620	HA	ASP	X	171	37.995	53.536	48.350	0.00	0.00
ATOM	2621	CB	ASP	X	171	39.807	52.291	48.416	0.00	0.00
ATOM	2622	HB2	ASP	X	171	40.080	51.283	48.102	0.00	0.00
ATOM	2623	HB3	ASP	X	171	40.376	52.975	47.787	0.00	0.00
ATOM	2624	CG	ASP	X	171	40.279	52.446	49.909	0.00	0.00
ATOM	2625	OD1	ASP	X	171	39.541	53.124	50.679	0.00	0.00
ATOM	2626	OD2	ASP	X	171	41.473	52.028	50.214	0.00	0.00
ATOM	2627	C	ASP	X	171	38.189	52.484	46.536	0.00	0.00
ATOM	2628	O	ASP	X	171	37.963	53.549	45.843	0.00	0.00
ATOM	2629	N	GLN	X	172	38.445	51.270	45.943	0.00	0.00
ATOM	2630	H	GLN	X	172	38.655	50.496	46.557	0.00	0.00
ATOM	2631	CA	GLN	X	172	38.310	51.028	44.458	0.00	0.00
ATOM	2632	HA	GLN	X	172	39.033	51.462	43.767	0.00	0.00
ATOM	2633	CB	GLN	X	172	38.605	49.574	44.140	0.00	0.00
ATOM	2634	HB2	GLN	X	172	37.865	48.907	44.581	0.00	0.00
ATOM	2635	HB3	GLN	X	172	38.407	49.336	43.094	0.00	0.00
ATOM	2636	CG	GLN	X	172	39.951	49.084	44.536	0.00	0.00
ATOM	2637	HG2	GLN	X	172	40.665	49.577	43.876	0.00	0.00
ATOM	2638	HG3	GLN	X	172	40.215	49.500	45.508	0.00	0.00
ATOM	2639	CD	GLN	X	172	40.002	47.533	44.371	0.00	0.00
ATOM	2640	OE1	GLN	X	172	39.303	46.957	43.536	0.00	0.00
ATOM	2641	NE2	GLN	X	172	40.801	46.810	45.139	0.00	0.00
ATOM	2642	HE21	GLN	X	172	40.684	45.821	44.972	0.00	0.00
ATOM	2643	HE22	GLN	X	172	41.511	47.117	45.788	0.00	0.00
ATOM	2644	C	GLN	X	172	36.912	51.434	43.948	0.00	0.00
ATOM	2645	O	GLN	X	172	36.817	51.972	42.838	0.00	0.00
ATOM	2646	N	ARG	X	173	35.888	51.327	44.844	0.00	0.00
ATOM	2647	H	ARG	X	173	36.173	51.070	45.779	0.00	0.00
ATOM	2648	CA	ARG	X	173	34.440	51.620	44.453	0.00	0.00
ATOM	2649	HA	ARG	X	173	34.155	51.188	43.494	0.00	0.00
ATOM	2650	CB	ARG	X	173	33.505	50.942	45.453	0.00	0.00
ATOM	2651	HB2	ARG	X	173	33.829	49.909	45.577	0.00	0.00
ATOM	2652	HB3	ARG	X	173	33.610	51.457	46.407	0.00	0.00
ATOM	2653	CG	ARG	X	173	32.000	51.107	44.986	0.00	0.00
ATOM	2654	HG2	ARG	X	173	31.862	52.159	44.736	0.00	0.00
ATOM	2655	HG3	ARG	X	173	31.794	50.596	44.046	0.00	0.00
ATOM	2656	CD	ARG	X	173	30.988	50.661	46.085	0.00	0.00
ATOM	2657	HD2	ARG	X	173	31.337	50.996	47.062	0.00	0.00
ATOM	2658	HD3	ARG	X	173	30.004	51.129	46.053	0.00	0.00

ATOM	2659	NE	ARG	X	173	30.782	49.182	46.091	0.00	0.00
ATOM	2660	HE	ARG	X	173	31.267	48.684	45.359	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.061	48.461	46.986	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.502	49.069	48.036	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.493	50.075	48.119	0.00	0.00
ATOM	2664	HH12	ARG	X	173	28.967	48.540	48.710	0.00	0.00
ATOM	2665	NH2	ARG	X	173	29.980	47.142	46.903	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.459	46.696	46.133	0.00	0.00
ATOM	2667	HH22	ARG	X	173	29.564	46.548	47.606	0.00	0.00
ATOM	2668	C	ARG	X	173	34.264	53.148	44.292	0.00	0.00
ATOM	2669	O	ARG	X	173	33.696	53.598	43.287	0.00	0.00
ATOM	2670	N	LEU	X	174	34.725	53.887	45.274	0.00	0.00
ATOM	2671	H	LEU	X	174	35.208	53.430	46.034	0.00	0.00
ATOM	2672	CA	LEU	X	174	34.652	55.371	45.303	0.00	0.00
ATOM	2673	HA	LEU	X	174	33.662	55.707	44.997	0.00	0.00
ATOM	2674	CB	LEU	X	174	35.113	55.878	46.705	0.00	0.00
ATOM	2675	HB2	LEU	X	174	34.404	55.445	47.411	0.00	0.00
ATOM	2676	HB3	LEU	X	174	36.096	55.431	46.851	0.00	0.00
ATOM	2677	CG	LEU	X	174	35.326	57.379	46.867	0.00	0.00
ATOM	2678	HG	LEU	X	174	35.814	57.810	45.994	0.00	0.00
ATOM	2679	CD1	LEU	X	174	33.932	57.990	46.958	0.00	0.00
ATOM	2680	HD11	LEU	X	174	34.088	59.048	46.749	0.00	0.00
ATOM	2681	HD12	LEU	X	174	33.255	57.568	46.214	0.00	0.00
ATOM	2682	HD13	LEU	X	174	33.490	57.887	47.949	0.00	0.00
ATOM	2683	CD2	LEU	X	174	36.167	57.820	48.098	0.00	0.00
ATOM	2684	HD21	LEU	X	174	37.161	57.371	48.091	0.00	0.00
ATOM	2685	HD22	LEU	X	174	36.273	58.904	48.067	0.00	0.00
ATOM	2686	HD23	LEU	X	174	35.681	57.473	49.010	0.00	0.00
ATOM	2687	C	LEU	X	174	35.547	55.910	44.222	0.00	0.00
ATOM	2688	O	LEU	X	174	35.222	56.847	43.544	0.00	0.00
ATOM	2689	N	ALA	X	175	36.664	55.256	43.885	0.00	0.00
ATOM	2690	H	ALA	X	175	36.812	54.357	44.321	0.00	0.00
ATOM	2691	CA	ALA	X	175	37.433	55.563	42.718	0.00	0.00
ATOM	2692	HA	ALA	X	175	37.649	56.632	42.740	0.00	0.00
ATOM	2693	CB	ALA	X	175	38.763	54.737	42.888	0.00	0.00
ATOM	2694	HB1	ALA	X	175	38.565	53.671	42.777	0.00	0.00
ATOM	2695	HB2	ALA	X	175	39.444	55.033	42.090	0.00	0.00
ATOM	2696	HB3	ALA	X	175	39.256	54.826	43.856	0.00	0.00
ATOM	2697	C	ALA	X	175	36.672	55.307	41.389	0.00	0.00
ATOM	2698	O	ALA	X	175	36.695	56.140	40.531	0.00	0.00
ATOM	2699	N	LEU	X	176	35.906	54.281	41.220	0.00	0.00
ATOM	2700	H	LEU	X	176	35.957	53.544	41.909	0.00	0.00
ATOM	2701	CA	LEU	X	176	34.901	54.099	40.038	0.00	0.00
ATOM	2702	HA	LEU	X	176	35.533	54.201	39.156	0.00	0.00
ATOM	2703	CB	LEU	X	176	34.224	52.698	39.969	0.00	0.00
ATOM	2704	HB2	LEU	X	176	33.678	52.550	40.901	0.00	0.00
ATOM	2705	HB3	LEU	X	176	33.489	52.769	39.167	0.00	0.00
ATOM	2706	CG	LEU	X	176	35.172	51.481	39.734	0.00	0.00
ATOM	2707	HG	LEU	X	176	35.809	51.354	40.610	0.00	0.00
ATOM	2708	CD1	LEU	X	176	34.406	50.161	39.510	0.00	0.00
ATOM	2709	HD11	LEU	X	176	34.015	50.121	38.494	0.00	0.00
ATOM	2710	HD12	LEU	X	176	34.923	49.291	39.915	0.00	0.00
ATOM	2711	HD13	LEU	X	176	33.517	50.186	40.141	0.00	0.00
ATOM	2712	CD2	LEU	X	176	36.139	51.790	38.548	0.00	0.00
ATOM	2713	HD21	LEU	X	176	36.849	52.499	38.973	0.00	0.00
ATOM	2714	HD22	LEU	X	176	36.708	50.885	38.335	0.00	0.00
ATOM	2715	HD23	LEU	X	176	35.596	52.075	37.647	0.00	0.00
ATOM	2716	C	LEU	X	176	33.898	55.179	40.023	0.00	0.00
ATOM	2717	O	LEU	X	176	33.562	55.647	38.987	0.00	0.00
ATOM	2718	N	GLN	X	177	33.404	55.607	41.162	0.00	0.00
ATOM	2719	H	GLN	X	177	33.623	55.144	42.032	0.00	0.00
ATOM	2720	CA	GLN	X	177	32.444	56.741	41.273	0.00	0.00
ATOM	2721	HA	GLN	X	177	31.621	56.576	40.578	0.00	0.00
ATOM	2722	CB	GLN	X	177	31.877	56.896	42.696	0.00	0.00
ATOM	2723	HB2	GLN	X	177	32.698	57.031	43.400	0.00	0.00
ATOM	2724	HB3	GLN	X	177	31.240	57.766	42.542	0.00	0.00
ATOM	2725	CG	GLN	X	177	30.900	55.728	43.149	0.00	0.00
ATOM	2726	HG2	GLN	X	177	30.118	55.469	42.436	0.00	0.00
ATOM	2727	HG3	GLN	X	177	31.467	54.811	43.315	0.00	0.00
ATOM	2728	CD	GLN	X	177	30.196	56.124	44.461	0.00	0.00

ATOM	2729	OE1	GLN	X	177	30.720	55.943	45.557	0.00	0.00
ATOM	2730	NE2	GLN	X	177	28.946	56.490	44.455	0.00	0.00
ATOM	2731	HE21	GLN	X	177	28.548	56.762	45.342	0.00	0.00
ATOM	2732	HE22	GLN	X	177	28.434	56.436	43.586	0.00	0.00
ATOM	2733	C	GLN	X	177	33.108	57.994	40.710	0.00	0.00
ATOM	2734	O	GLN	X	177	32.443	58.789	39.992	0.00	0.00
ATOM	2735	N	TRP	X	178	34.333	58.301	41.076	0.00	0.00
ATOM	2736	H	TRP	X	178	34.756	57.720	41.786	0.00	0.00
ATOM	2737	CA	TRP	X	178	35.206	59.324	40.416	0.00	0.00
ATOM	2738	HA	TRP	X	178	34.923	60.358	40.611	0.00	0.00
ATOM	2739	CB	TRP	X	178	36.697	59.400	40.998	0.00	0.00
ATOM	2740	HB2	TRP	X	178	36.625	59.424	42.085	0.00	0.00
ATOM	2741	HB3	TRP	X	178	37.310	58.551	40.696	0.00	0.00
ATOM	2742	CG	TRP	X	178	37.396	60.617	40.547	0.00	0.00
ATOM	2743	CD1	TRP	X	178	37.550	61.730	41.262	0.00	0.00
ATOM	2744	HD1	TRP	X	178	37.133	61.886	42.245	0.00	0.00
ATOM	2745	NE1	TRP	X	178	38.223	62.649	40.515	0.00	0.00
ATOM	2746	HE1	TRP	X	178	38.505	63.557	40.854	0.00	0.00
ATOM	2747	CE2	TRP	X	178	38.539	62.158	39.302	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	39.330	62.721	38.302	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	39.621	63.753	38.430	0.00	0.00
ATOM	2750	CH2	TRP	X	178	39.729	61.933	37.238	0.00	0.00
ATOM	2751	HH2	TRP	X	178	40.421	62.390	36.547	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	39.368	60.600	37.103	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	39.614	59.982	36.252	0.00	0.00
ATOM	2754	CE3	TRP	X	178	38.523	60.110	38.131	0.00	0.00
ATOM	2755	HE3	TRP	X	178	38.224	59.073	38.107	0.00	0.00
ATOM	2756	CD2	TRP	X	178	38.054	60.888	39.273	0.00	0.00
ATOM	2757	C	TRP	X	178	35.335	59.109	38.886	0.00	0.00
ATOM	2758	O	TRP	X	178	35.155	60.148	38.155	0.00	0.00
ATOM	2759	N	VAL	X	179	35.675	57.945	38.363	0.00	0.00
ATOM	2760	H	VAL	X	179	35.926	57.215	39.014	0.00	0.00
ATOM	2761	CA	VAL	X	179	35.606	57.755	36.907	0.00	0.00
ATOM	2762	HA	VAL	X	179	36.366	58.354	36.405	0.00	0.00
ATOM	2763	CB	VAL	X	179	35.950	56.316	36.544	0.00	0.00
ATOM	2764	HB	VAL	X	179	35.277	55.622	37.047	0.00	0.00
ATOM	2765	CG1	VAL	X	179	35.824	55.953	35.083	0.00	0.00
ATOM	2766	HG11	VAL	X	179	36.012	54.884	34.987	0.00	0.00
ATOM	2767	HG12	VAL	X	179	34.865	56.182	34.620	0.00	0.00
ATOM	2768	HG13	VAL	X	179	36.470	56.599	34.488	0.00	0.00
ATOM	2769	CG2	VAL	X	179	37.419	55.990	36.909	0.00	0.00
ATOM	2770	HG21	VAL	X	179	37.527	56.034	37.993	0.00	0.00
ATOM	2771	HG22	VAL	X	179	37.703	54.986	36.596	0.00	0.00
ATOM	2772	HG23	VAL	X	179	38.093	56.658	36.373	0.00	0.00
ATOM	2773	C	VAL	X	179	34.239	58.053	36.253	0.00	0.00
ATOM	2774	O	VAL	X	179	34.128	58.713	35.264	0.00	0.00
ATOM	2775	N	GLN	X	180	33.206	57.724	37.018	0.00	0.00
ATOM	2776	H	GLN	X	180	33.327	57.128	37.824	0.00	0.00
ATOM	2777	CA	GLN	X	180	31.835	58.064	36.532	0.00	0.00
ATOM	2778	HA	GLN	X	180	31.784	57.895	35.456	0.00	0.00
ATOM	2779	CB	GLN	X	180	30.811	57.157	37.315	0.00	0.00
ATOM	2780	HB2	GLN	X	180	31.024	57.121	38.384	0.00	0.00
ATOM	2781	HB3	GLN	X	180	29.817	57.604	37.320	0.00	0.00
ATOM	2782	CG	GLN	X	180	30.871	55.758	36.751	0.00	0.00
ATOM	2783	HG2	GLN	X	180	31.876	55.352	36.872	0.00	0.00
ATOM	2784	HG3	GLN	X	180	30.316	55.076	37.395	0.00	0.00
ATOM	2785	CD	GLN	X	180	30.418	55.731	35.324	0.00	0.00
ATOM	2786	OE1	GLN	X	180	29.913	56.721	34.805	0.00	0.00
ATOM	2787	NE2	GLN	X	180	30.614	54.704	34.558	0.00	0.00
ATOM	2788	HE21	GLN	X	180	30.584	54.900	33.568	0.00	0.00
ATOM	2789	HE22	GLN	X	180	31.063	53.870	34.908	0.00	0.00
ATOM	2790	C	GLN	X	180	31.452	59.535	36.736	0.00	0.00
ATOM	2791	O	GLN	X	180	30.598	59.979	35.952	0.00	0.00
ATOM	2792	N	GLU	X	181	32.018	60.280	37.647	0.00	0.00
ATOM	2793	H	GLU	X	181	32.721	59.861	38.240	0.00	0.00
ATOM	2794	CA	GLU	X	181	31.762	61.786	37.828	0.00	0.00
ATOM	2795	HA	GLU	X	181	30.682	61.909	37.751	0.00	0.00
ATOM	2796	CB	GLU	X	181	32.010	62.080	39.319	0.00	0.00
ATOM	2797	HB2	GLU	X	181	31.518	61.314	39.918	0.00	0.00
ATOM	2798	HB3	GLU	X	181	33.066	61.845	39.455	0.00	0.00

ATOM	2799	CG	GLU	X	181	31.623	63.446	39.799	0.00	0.00
ATOM	2800	HG2	GLU	X	181	32.244	64.258	39.423	0.00	0.00
ATOM	2801	HG3	GLU	X	181	30.588	63.613	39.500	0.00	0.00
ATOM	2802	CD	GLU	X	181	31.749	63.456	41.339	0.00	0.00
ATOM	2803	OE1	GLU	X	181	32.868	63.790	41.808	0.00	0.00
ATOM	2804	OE2	GLU	X	181	30.729	63.146	42.006	0.00	0.00
ATOM	2805	C	GLU	X	181	32.486	62.673	36.855	0.00	0.00
ATOM	2806	O	GLU	X	181	31.974	63.643	36.385	0.00	0.00
ATOM	2807	N	ASN	X	182	33.831	62.443	36.706	0.00	0.00
ATOM	2808	H	ASN	X	182	34.278	61.644	37.133	0.00	0.00
ATOM	2809	CA	ASN	X	182	34.794	63.451	36.205	0.00	0.00
ATOM	2810	HA	ASN	X	182	34.278	64.405	36.096	0.00	0.00
ATOM	2811	CB	ASN	X	182	35.917	63.638	37.226	0.00	0.00
ATOM	2812	HB2	ASN	X	182	36.426	62.736	37.564	0.00	0.00
ATOM	2813	HB3	ASN	X	182	36.675	64.277	36.773	0.00	0.00
ATOM	2814	CG	ASN	X	182	35.432	64.366	38.464	0.00	0.00
ATOM	2815	OD1	ASN	X	182	35.075	65.552	38.331	0.00	0.00
ATOM	2816	ND2	ASN	X	182	35.309	63.677	39.581	0.00	0.00
ATOM	2817	HD21	ASN	X	182	34.926	64.083	40.423	0.00	0.00
ATOM	2818	HD22	ASN	X	182	35.719	62.758	39.664	0.00	0.00
ATOM	2819	C	ASN	X	182	35.433	63.090	34.806	0.00	0.00
ATOM	2820	O	ASN	X	182	35.885	63.961	34.053	0.00	0.00
ATOM	2821	N	VAL	X	183	35.379	61.824	34.354	0.00	0.00
ATOM	2822	H	VAL	X	183	34.646	61.215	34.687	0.00	0.00
ATOM	2823	CA	VAL	X	183	36.252	61.352	33.296	0.00	0.00
ATOM	2824	HA	VAL	X	183	37.218	61.754	33.602	0.00	0.00
ATOM	2825	CB	VAL	X	183	36.360	59.823	33.192	0.00	0.00
ATOM	2826	HB	VAL	X	183	36.418	59.446	34.213	0.00	0.00
ATOM	2827	CG1	VAL	X	183	35.256	59.166	32.333	0.00	0.00
ATOM	2828	HG11	VAL	X	183	35.417	59.343	31.270	0.00	0.00
ATOM	2829	HG12	VAL	X	183	35.449	58.104	32.486	0.00	0.00
ATOM	2830	HG13	VAL	X	183	34.257	59.351	32.727	0.00	0.00
ATOM	2831	CG2	VAL	X	183	37.805	59.470	32.779	0.00	0.00
ATOM	2832	HG21	VAL	X	183	37.887	58.384	32.817	0.00	0.00
ATOM	2833	HG22	VAL	X	183	37.979	59.910	31.797	0.00	0.00
ATOM	2834	HG23	VAL	X	183	38.498	59.855	33.527	0.00	0.00
ATOM	2835	C	VAL	X	183	35.947	61.989	31.945	0.00	0.00
ATOM	2836	O	VAL	X	183	36.860	62.099	31.147	0.00	0.00
ATOM	2837	N	ALA	X	184	34.719	62.529	31.758	0.00	0.00
ATOM	2838	H	ALA	X	184	34.071	62.601	32.529	0.00	0.00
ATOM	2839	CA	ALA	X	184	34.349	63.232	30.485	0.00	0.00
ATOM	2840	HA	ALA	X	184	34.650	62.519	29.718	0.00	0.00
ATOM	2841	CB	ALA	X	184	32.817	63.355	30.532	0.00	0.00
ATOM	2842	HB1	ALA	X	184	32.469	63.735	31.493	0.00	0.00
ATOM	2843	HB2	ALA	X	184	32.408	64.009	29.763	0.00	0.00
ATOM	2844	HB3	ALA	X	184	32.522	62.306	30.494	0.00	0.00
ATOM	2845	C	ALA	X	184	35.051	64.568	30.198	0.00	0.00
ATOM	2846	O	ALA	X	184	35.178	64.938	29.010	0.00	0.00
ATOM	2847	N	ALA	X	185	35.641	65.165	31.285	0.00	0.00
ATOM	2848	H	ALA	X	185	35.358	64.799	32.183	0.00	0.00
ATOM	2849	CA	ALA	X	185	36.587	66.292	31.189	0.00	0.00
ATOM	2850	HA	ALA	X	185	36.069	67.147	30.753	0.00	0.00
ATOM	2851	CB	ALA	X	185	36.991	66.710	32.669	0.00	0.00
ATOM	2852	HB1	ALA	X	185	36.050	66.730	33.218	0.00	0.00
ATOM	2853	HB2	ALA	X	185	37.718	66.001	33.064	0.00	0.00
ATOM	2854	HB3	ALA	X	185	37.365	67.733	32.622	0.00	0.00
ATOM	2855	C	ALA	X	185	37.814	65.921	30.318	0.00	0.00
ATOM	2856	O	ALA	X	185	38.243	66.727	29.518	0.00	0.00
ATOM	2857	N	PHE	X	186	38.272	64.668	30.493	0.00	0.00
ATOM	2858	H	PHE	X	186	37.754	64.003	31.050	0.00	0.00
ATOM	2859	CA	PHE	X	186	39.446	64.114	29.808	0.00	0.00
ATOM	2860	HA	PHE	X	186	40.140	64.933	29.618	0.00	0.00
ATOM	2861	CB	PHE	X	186	40.144	63.181	30.779	0.00	0.00
ATOM	2862	HB2	PHE	X	186	39.566	62.264	30.892	0.00	0.00
ATOM	2863	HB3	PHE	X	186	41.119	62.856	30.417	0.00	0.00
ATOM	2864	CG	PHE	X	186	40.344	63.693	32.165	0.00	0.00
ATOM	2865	CD1	PHE	X	186	39.464	63.540	33.192	0.00	0.00
ATOM	2866	HD1	PHE	X	186	38.478	63.153	32.982	0.00	0.00
ATOM	2867	CE1	PHE	X	186	39.600	64.052	34.448	0.00	0.00
ATOM	2868	HE1	PHE	X	186	38.809	64.033	35.183	0.00	0.00

ATOM	2869	CZ	PHE	X	186	40.845	64.620	34.827	0.00	0.00
ATOM	2870	HZ	PHE	X	186	41.031	65.062	35.795	0.00	0.00
ATOM	2871	CE2	PHE	X	186	41.839	64.750	33.804	0.00	0.00
ATOM	2872	HE2	PHE	X	186	42.824	65.102	34.073	0.00	0.00
ATOM	2873	CD2	PHE	X	186	41.579	64.307	32.503	0.00	0.00
ATOM	2874	HD2	PHE	X	186	42.413	64.413	31.825	0.00	0.00
ATOM	2875	C	PHE	X	186	39.080	63.347	28.537	0.00	0.00
ATOM	2876	O	PHE	X	186	39.855	62.463	28.130	0.00	0.00
ATOM	2877	N	GLY	X	187	37.860	63.543	28.140	0.00	0.00
ATOM	2878	H	GLY	X	187	37.332	64.284	28.576	0.00	0.00
ATOM	2879	CA	GLY	X	187	37.308	62.977	26.933	0.00	0.00
ATOM	2880	HA2	GLY	X	187	36.374	63.549	26.808	0.00	0.00
ATOM	2881	HA3	GLY	X	187	38.093	62.950	26.142	0.00	0.00
ATOM	2882	C	GLY	X	187	36.882	61.501	27.011	0.00	0.00
ATOM	2883	O	GLY	X	187	36.322	61.044	26.035	0.00	0.00
ATOM	2884	N	GLY	X	188	37.161	60.814	28.091	0.00	0.00
ATOM	2885	H	GLY	X	188	37.396	61.350	28.915	0.00	0.00
ATOM	2886	CA	GLY	X	188	36.719	59.381	28.215	0.00	0.00
ATOM	2887	HA2	GLY	X	188	36.904	58.921	27.239	0.00	0.00
ATOM	2888	HA3	GLY	X	188	37.171	58.794	29.003	0.00	0.00
ATOM	2889	C	GLY	X	188	35.194	59.195	28.406	0.00	0.00
ATOM	2890	O	GLY	X	188	34.567	60.142	28.837	0.00	0.00
ATOM	2891	N	ASP	X	189	34.640	58.075	28.000	0.00	0.00
ATOM	2892	H	ASP	X	189	35.236	57.444	27.483	0.00	0.00
ATOM	2893	CA	ASP	X	189	33.203	57.792	27.941	0.00	0.00
ATOM	2894	HA	ASP	X	189	32.589	58.688	28.035	0.00	0.00
ATOM	2895	CB	ASP	X	189	32.964	57.003	26.614	0.00	0.00
ATOM	2896	HB2	ASP	X	189	33.187	57.794	25.898	0.00	0.00
ATOM	2897	HB3	ASP	X	189	33.604	56.132	26.470	0.00	0.00
ATOM	2898	CG	ASP	X	189	31.530	56.639	26.363	0.00	0.00
ATOM	2899	OD1	ASP	X	189	31.107	55.838	25.482	0.00	0.00
ATOM	2900	OD2	ASP	X	189	30.755	57.271	27.102	0.00	0.00
ATOM	2901	C	ASP	X	189	32.735	57.048	29.147	0.00	0.00
ATOM	2902	O	ASP	X	189	32.795	55.780	29.230	0.00	0.00
ATOM	2903	N	PRO	X	190	32.148	57.679	30.149	0.00	0.00
ATOM	2904	CD	PRO	X	190	31.962	59.134	30.310	0.00	0.00
ATOM	2905	HD2	PRO	X	190	31.604	59.586	29.385	0.00	0.00
ATOM	2906	HD3	PRO	X	190	32.876	59.491	30.783	0.00	0.00
ATOM	2907	CG	PRO	X	190	30.882	59.397	31.347	0.00	0.00
ATOM	2908	HG2	PRO	X	190	29.909	59.600	30.899	0.00	0.00
ATOM	2909	HG3	PRO	X	190	31.233	60.278	31.884	0.00	0.00
ATOM	2910	CB	PRO	X	190	30.988	58.182	32.247	0.00	0.00
ATOM	2911	HB2	PRO	X	190	30.005	57.994	32.680	0.00	0.00
ATOM	2912	HB3	PRO	X	190	31.766	58.256	33.006	0.00	0.00
ATOM	2913	CA	PRO	X	190	31.545	57.006	31.324	0.00	0.00
ATOM	2914	HA	PRO	X	190	32.354	56.557	31.900	0.00	0.00
ATOM	2915	C	PRO	X	190	30.400	55.993	30.940	0.00	0.00
ATOM	2916	O	PRO	X	190	29.851	55.468	31.916	0.00	0.00
ATOM	2917	N	THR	X	191	30.053	55.846	29.639	0.00	0.00
ATOM	2918	H	THR	X	191	30.591	56.415	29.001	0.00	0.00
ATOM	2919	CA	THR	X	191	29.055	54.865	29.167	0.00	0.00
ATOM	2920	HA	THR	X	191	28.508	54.493	30.033	0.00	0.00
ATOM	2921	CB	THR	X	191	27.915	55.503	28.315	0.00	0.00
ATOM	2922	HB	THR	X	191	27.156	54.735	28.165	0.00	0.00
ATOM	2923	CG2	THR	X	191	27.343	56.654	29.117	0.00	0.00
ATOM	2924	HG21	THR	X	191	28.061	57.464	29.244	0.00	0.00
ATOM	2925	HG22	THR	X	191	26.579	57.128	28.500	0.00	0.00
ATOM	2926	HG23	THR	X	191	26.903	56.226	30.017	0.00	0.00
ATOM	2927	OG1	THR	X	191	28.315	55.934	27.027	0.00	0.00
ATOM	2928	HG1	THR	X	191	29.143	56.417	27.076	0.00	0.00
ATOM	2929	C	THR	X	191	29.823	53.634	28.504	0.00	0.00
ATOM	2930	O	THR	X	191	29.177	52.678	28.151	0.00	0.00
ATOM	2931	N	SER	X	192	31.204	53.655	28.559	0.00	0.00
ATOM	2932	H	SER	X	192	31.697	54.464	28.909	0.00	0.00
ATOM	2933	CA	SER	X	192	32.088	52.615	28.053	0.00	0.00
ATOM	2934	HA	SER	X	192	31.485	51.709	27.992	0.00	0.00
ATOM	2935	CB	SER	X	192	32.623	52.917	26.619	0.00	0.00
ATOM	2936	HB2	SER	X	192	33.262	53.800	26.613	0.00	0.00
ATOM	2937	HB3	SER	X	192	33.168	52.086	26.171	0.00	0.00
ATOM	2938	OG	SER	X	192	31.514	53.174	25.786	0.00	0.00

ATOM	2939	HG	SER	X	192	31.286	54.106	25.753	0.00	0.00
ATOM	2940	C	SER	X	192	33.291	52.369	28.931	0.00	0.00
ATOM	2941	O	SER	X	192	34.409	52.530	28.479	0.00	0.00
ATOM	2942	N	VAL	X	193	33.044	52.147	30.227	0.00	0.00
ATOM	2943	H	VAL	X	193	32.067	52.039	30.459	0.00	0.00
ATOM	2944	CA	VAL	X	193	33.910	51.736	31.293	0.00	0.00
ATOM	2945	HA	VAL	X	193	34.896	52.128	31.041	0.00	0.00
ATOM	2946	CB	VAL	X	193	33.569	52.280	32.695	0.00	0.00
ATOM	2947	HB	VAL	X	193	32.610	51.837	32.965	0.00	0.00
ATOM	2948	CG1	VAL	X	193	34.614	51.960	33.850	0.00	0.00
ATOM	2949	HG11	VAL	X	193	34.089	51.986	34.805	0.00	0.00
ATOM	2950	HG12	VAL	X	193	35.035	50.964	33.709	0.00	0.00
ATOM	2951	HG13	VAL	X	193	35.440	52.669	33.791	0.00	0.00
ATOM	2952	CG2	VAL	X	193	33.252	53.838	32.746	0.00	0.00
ATOM	2953	HG21	VAL	X	193	32.424	54.189	32.130	0.00	0.00
ATOM	2954	HG22	VAL	X	193	33.039	54.035	33.797	0.00	0.00
ATOM	2955	HG23	VAL	X	193	34.145	54.381	32.438	0.00	0.00
ATOM	2956	C	VAL	X	193	34.137	50.244	31.249	0.00	0.00
ATOM	2957	O	VAL	X	193	33.277	49.390	31.336	0.00	0.00
ATOM	2958	N	THR	X	194	35.461	49.997	31.137	0.00	0.00
ATOM	2959	H	THR	X	194	36.055	50.813	31.091	0.00	0.00
ATOM	2960	CA	THR	X	194	36.135	48.747	31.074	0.00	0.00
ATOM	2961	HA	THR	X	194	35.368	47.973	31.116	0.00	0.00
ATOM	2962	CB	THR	X	194	36.943	48.492	29.743	0.00	0.00
ATOM	2963	HB	THR	X	194	37.895	49.011	29.852	0.00	0.00
ATOM	2964	CG2	THR	X	194	37.244	47.043	29.529	0.00	0.00
ATOM	2965	HG21	THR	X	194	37.975	46.944	28.727	0.00	0.00
ATOM	2966	HG22	THR	X	194	37.769	46.681	30.413	0.00	0.00
ATOM	2967	HG23	THR	X	194	36.332	46.460	29.398	0.00	0.00
ATOM	2968	OG1	THR	X	194	36.221	48.964	28.616	0.00	0.00
ATOM	2969	HG1	THR	X	194	36.457	49.890	28.525	0.00	0.00
ATOM	2970	C	THR	X	194	37.035	48.588	32.317	0.00	0.00
ATOM	2971	O	THR	X	194	37.811	49.503	32.569	0.00	0.00
ATOM	2972	N	LEU	X	195	36.987	47.480	33.069	0.00	0.00
ATOM	2973	H	LEU	X	195	36.423	46.674	32.839	0.00	0.00
ATOM	2974	CA	LEU	X	195	37.938	47.224	34.131	0.00	0.00
ATOM	2975	HA	LEU	X	195	38.480	48.122	34.428	0.00	0.00
ATOM	2976	CB	LEU	X	195	37.230	46.699	35.314	0.00	0.00
ATOM	2977	HB2	LEU	X	195	36.826	45.703	35.133	0.00	0.00
ATOM	2978	HB3	LEU	X	195	37.966	46.586	36.110	0.00	0.00
ATOM	2979	CG	LEU	X	195	36.089	47.545	35.997	0.00	0.00
ATOM	2980	HG	LEU	X	195	35.190	47.374	35.405	0.00	0.00
ATOM	2981	CD1	LEU	X	195	35.695	47.202	37.458	0.00	0.00
ATOM	2982	HD11	LEU	X	195	36.441	47.194	38.253	0.00	0.00
ATOM	2983	HD12	LEU	X	195	34.984	47.938	37.836	0.00	0.00
ATOM	2984	HD13	LEU	X	195	35.348	46.170	37.512	0.00	0.00
ATOM	2985	CD2	LEU	X	195	36.496	49.027	36.033	0.00	0.00
ATOM	2986	HD21	LEU	X	195	37.356	49.221	36.674	0.00	0.00
ATOM	2987	HD22	LEU	X	195	36.608	49.477	35.046	0.00	0.00
ATOM	2988	HD23	LEU	X	195	35.653	49.608	36.405	0.00	0.00
ATOM	2989	C	LEU	X	195	39.046	46.250	33.629	0.00	0.00
ATOM	2990	O	LEU	X	195	38.700	45.410	32.859	0.00	0.00
ATOM	2991	N	PHE	X	196	40.248	46.311	34.188	0.00	0.00
ATOM	2992	H	PHE	X	196	40.329	46.954	34.963	0.00	0.00
ATOM	2993	CA	PHE	X	196	41.408	45.589	33.725	0.00	0.00
ATOM	2994	HA	PHE	X	196	41.159	44.635	33.261	0.00	0.00
ATOM	2995	CB	PHE	X	196	42.119	46.411	32.612	0.00	0.00
ATOM	2996	HB2	PHE	X	196	41.652	46.387	31.627	0.00	0.00
ATOM	2997	HB3	PHE	X	196	42.061	47.447	32.947	0.00	0.00
ATOM	2998	CG	PHE	X	196	43.628	46.318	32.350	0.00	0.00
ATOM	2999	CD1	PHE	X	196	44.480	47.461	32.437	0.00	0.00
ATOM	3000	HD1	PHE	X	196	44.147	48.456	32.690	0.00	0.00
ATOM	3001	CE1	PHE	X	196	45.854	47.300	32.050	0.00	0.00
ATOM	3002	HE1	PHE	X	196	46.456	48.191	32.140	0.00	0.00
ATOM	3003	CZ	PHE	X	196	46.324	46.131	31.532	0.00	0.00
ATOM	3004	HZ	PHE	X	196	47.351	45.999	31.224	0.00	0.00
ATOM	3005	CE2	PHE	X	196	45.493	45.024	31.665	0.00	0.00
ATOM	3006	HE2	PHE	X	196	45.838	44.027	31.433	0.00	0.00
ATOM	3007	CD2	PHE	X	196	44.095	45.106	31.925	0.00	0.00
ATOM	3008	HD2	PHE	X	196	43.447	44.250	31.805	0.00	0.00

ATOM	3009	C	PHE	X	196	42.399	45.336	34.901	0.00	0.00
ATOM	3010	O	PHE	X	196	42.763	46.290	35.627	0.00	0.00
ATOM	3011	N	GLY	X	197	42.553	44.069	35.268	0.00	0.00
ATOM	3012	H	GLY	X	197	42.198	43.312	34.700	0.00	0.00
ATOM	3013	CA	GLY	X	197	43.316	43.677	36.357	0.00	0.00
ATOM	3014	HA2	GLY	X	197	44.049	44.447	36.660	0.00	0.00
ATOM	3015	HA3	GLY	X	197	42.639	43.563	37.240	0.00	0.00
ATOM	3016	C	GLY	X	197	44.033	42.346	36.068	0.00	0.00
ATOM	3017	O	GLY	X	197	43.662	41.515	35.220	0.00	0.00
ATOM	3018	N	GLU	X	198	45.074	42.177	36.856	0.00	0.00
ATOM	3019	H	GLU	X	198	45.374	42.900	37.494	0.00	0.00
ATOM	3020	CA	GLU	X	198	45.836	40.901	37.015	0.00	0.00
ATOM	3021	HA	GLU	X	198	45.437	40.147	36.336	0.00	0.00
ATOM	3022	CB	GLU	X	198	47.321	41.033	36.407	0.00	0.00
ATOM	3023	HB2	GLU	X	198	47.263	41.635	35.500	0.00	0.00
ATOM	3024	HB3	GLU	X	198	47.990	41.651	37.006	0.00	0.00
ATOM	3025	CG	GLU	X	198	47.942	39.692	36.034	0.00	0.00
ATOM	3026	HG2	GLU	X	198	47.376	38.891	36.511	0.00	0.00
ATOM	3027	HG3	GLU	X	198	47.887	39.559	34.953	0.00	0.00
ATOM	3028	CD	GLU	X	198	49.363	39.606	36.517	0.00	0.00
ATOM	3029	OE1	GLU	X	198	50.295	39.761	35.696	0.00	0.00
ATOM	3030	OE2	GLU	X	198	49.662	39.219	37.655	0.00	0.00
ATOM	3031	C	GLU	X	198	45.902	40.395	38.435	0.00	0.00
ATOM	3032	O	GLU	X	198	46.102	41.213	39.393	0.00	0.00
ATOM	3033	N	XA1	X	199	45.845	39.106	38.601	0.00	0.00
ATOM	3034	CA	XA1	X	199	46.050	38.484	39.942	0.00	0.00
ATOM	3035	C	XA1	X	199	45.006	38.902	40.966	0.00	0.00
ATOM	3036	O	XA1	X	199	43.833	38.972	40.606	0.00	0.00
ATOM	3037	CB	XA1	X	199	47.529	38.635	40.407	0.00	0.00
ATOM	3038	OG	XA1	X	199	47.673	37.656	41.488	0.00	0.00
ATOM	3039	P1	XA1	X	199	48.742	38.217	42.533	0.00	0.00
ATOM	3040	O1	XA1	X	199	48.430	39.565	43.089	0.00	0.00
ATOM	3041	O2	XA1	X	199	49.941	38.031	41.771	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.483	36.874	43.648	0.00	0.00
ATOM	3043	H	XA1	X	199	45.802	38.495	37.799	0.00	0.00
ATOM	3044	HA	XA1	X	199	45.811	37.427	39.821	0.00	0.00
ATOM	3045	HB2	XA1	X	199	48.296	38.522	39.637	0.00	0.00
ATOM	3046	HB3	XA1	X	199	47.638	39.676	40.724	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.618	35.900	43.173	0.00	0.00
ATOM	3048	H12	XA1	X	199	49.169	37.009	44.487	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.446	37.004	43.964	0.00	0.00
ATOM	3050	N	ALA	X	200	45.431	39.343	42.197	0.00	0.00
ATOM	3051	H	ALA	X	200	46.405	39.199	42.422	0.00	0.00
ATOM	3052	CA	ALA	X	200	44.695	40.103	43.225	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.930	39.449	43.645	0.00	0.00
ATOM	3054	CB	ALA	X	200	45.631	40.581	44.372	0.00	0.00
ATOM	3055	HB1	ALA	X	200	45.009	41.134	45.076	0.00	0.00
ATOM	3056	HB2	ALA	X	200	46.121	39.721	44.829	0.00	0.00
ATOM	3057	HB3	ALA	X	200	46.338	41.336	44.028	0.00	0.00
ATOM	3058	C	ALA	X	200	43.900	41.280	42.560	0.00	0.00
ATOM	3059	O	ALA	X	200	42.845	41.639	43.033	0.00	0.00
ATOM	3060	N	GLY	X	201	44.433	41.904	41.487	0.00	0.00
ATOM	3061	H	GLY	X	201	45.266	41.595	41.007	0.00	0.00
ATOM	3062	CA	GLY	X	201	43.709	42.992	40.814	0.00	0.00
ATOM	3063	HA2	GLY	X	201	43.265	43.737	41.442	0.00	0.00
ATOM	3064	HA3	GLY	X	201	44.403	43.500	40.081	0.00	0.00
ATOM	3065	C	GLY	X	201	42.595	42.392	40.007	0.00	0.00
ATOM	3066	O	GLY	X	201	41.564	42.973	40.064	0.00	0.00
ATOM	3067	N	ALA	X	202	42.796	41.240	39.271	0.00	0.00
ATOM	3068	H	ALA	X	202	43.574	40.663	39.557	0.00	0.00
ATOM	3069	CA	ALA	X	202	41.734	40.573	38.565	0.00	0.00
ATOM	3070	HA	ALA	X	202	41.217	41.282	37.919	0.00	0.00
ATOM	3071	CB	ALA	X	202	42.336	39.487	37.655	0.00	0.00
ATOM	3072	HB1	ALA	X	202	41.649	39.074	36.918	0.00	0.00
ATOM	3073	HB2	ALA	X	202	43.155	39.862	37.041	0.00	0.00
ATOM	3074	HB3	ALA	X	202	42.721	38.612	38.178	0.00	0.00
ATOM	3075	C	ALA	X	202	40.614	39.965	39.472	0.00	0.00
ATOM	3076	O	ALA	X	202	39.413	39.920	39.160	0.00	0.00
ATOM	3077	N	ALA	X	203	41.026	39.469	40.640	0.00	0.00
ATOM	3078	H	ALA	X	203	42.016	39.445	40.840	0.00	0.00

ATOM	3079	CA	ALA	X	203	40.204	39.036	41.675	0.00	0.00
ATOM	3080	HA	ALA	X	203	39.432	38.320	41.394	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.088	38.418	42.784	0.00	0.00
ATOM	3082	HB1	ALA	X	203	41.982	37.975	42.346	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.646	39.157	43.360	0.00	0.00
ATOM	3084	HB3	ALA	X	203	40.638	37.778	43.543	0.00	0.00
ATOM	3085	C	ALA	X	203	39.389	40.193	42.280	0.00	0.00
ATOM	3086	O	ALA	X	203	38.149	40.095	42.397	0.00	0.00
ATOM	3087	N	SER	X	204	40.000	41.398	42.427	0.00	0.00
ATOM	3088	H	SER	X	204	41.000	41.307	42.315	0.00	0.00
ATOM	3089	CA	SER	X	204	39.237	42.615	42.805	0.00	0.00
ATOM	3090	HA	SER	X	204	38.738	42.517	43.769	0.00	0.00
ATOM	3091	CB	SER	X	204	40.266	43.802	42.928	0.00	0.00
ATOM	3092	HB2	SER	X	204	40.835	43.934	42.008	0.00	0.00
ATOM	3093	HB3	SER	X	204	39.688	44.675	43.231	0.00	0.00
ATOM	3094	OG	SER	X	204	41.222	43.674	43.990	0.00	0.00
ATOM	3095	HG	SER	X	204	41.955	43.159	43.646	0.00	0.00
ATOM	3096	C	SER	X	204	38.110	42.985	41.806	0.00	0.00
ATOM	3097	O	SER	X	204	36.914	43.159	42.167	0.00	0.00
ATOM	3098	N	VAL	X	205	38.525	43.193	40.488	0.00	0.00
ATOM	3099	H	VAL	X	205	39.488	43.090	40.199	0.00	0.00
ATOM	3100	CA	VAL	X	205	37.609	43.441	39.370	0.00	0.00
ATOM	3101	HA	VAL	X	205	37.274	44.478	39.415	0.00	0.00
ATOM	3102	CB	VAL	X	205	38.394	43.321	38.004	0.00	0.00
ATOM	3103	HB	VAL	X	205	38.962	42.395	38.089	0.00	0.00
ATOM	3104	CG1	VAL	X	205	37.478	43.167	36.793	0.00	0.00
ATOM	3105	HG11	VAL	X	205	36.613	43.819	36.917	0.00	0.00
ATOM	3106	HG12	VAL	X	205	38.024	43.284	35.857	0.00	0.00
ATOM	3107	HG13	VAL	X	205	37.088	42.158	36.927	0.00	0.00
ATOM	3108	CG2	VAL	X	205	39.376	44.470	37.818	0.00	0.00
ATOM	3109	HG21	VAL	X	205	38.766	45.364	37.689	0.00	0.00
ATOM	3110	HG22	VAL	X	205	40.195	44.511	38.536	0.00	0.00
ATOM	3111	HG23	VAL	X	205	39.741	44.325	36.801	0.00	0.00
ATOM	3112	C	VAL	X	205	36.417	42.438	39.375	0.00	0.00
ATOM	3113	O	VAL	X	205	35.258	42.771	39.151	0.00	0.00
ATOM	3114	N	GLY	X	206	36.704	41.148	39.711	0.00	0.00
ATOM	3115	H	GLY	X	206	37.679	40.884	39.727	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.705	40.055	39.739	0.00	0.00
ATOM	3117	HA2	GLY	X	206	35.216	40.064	38.721	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.168	39.074	39.910	0.00	0.00
ATOM	3119	C	GLY	X	206	34.683	40.208	40.903	0.00	0.00
ATOM	3120	O	GLY	X	206	33.539	39.714	40.795	0.00	0.00
ATOM	3121	N	MET	X	207	35.149	40.900	41.959	0.00	0.00
ATOM	3122	H	MET	X	207	36.041	41.373	41.987	0.00	0.00
ATOM	3123	CA	MET	X	207	34.324	41.033	43.218	0.00	0.00
ATOM	3124	HA	MET	X	207	33.758	40.111	43.352	0.00	0.00
ATOM	3125	CB	MET	X	207	35.060	41.385	44.472	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.651	42.234	44.129	0.00	0.00
ATOM	3127	HB3	MET	X	207	34.348	41.633	45.260	0.00	0.00
ATOM	3128	CG	MET	X	207	36.033	40.383	44.933	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.649	40.179	44.057	0.00	0.00
ATOM	3130	HG3	MET	X	207	36.757	40.881	45.578	0.00	0.00
ATOM	3131	SD	MET	X	207	35.424	38.824	45.647	0.00	0.00
ATOM	3132	CE	MET	X	207	37.150	38.352	46.020	0.00	0.00
ATOM	3133	HE1	MET	X	207	37.623	39.177	46.553	0.00	0.00
ATOM	3134	HE2	MET	X	207	37.166	37.466	46.655	0.00	0.00
ATOM	3135	HE3	MET	X	207	37.665	38.011	45.123	0.00	0.00
ATOM	3136	C	MET	X	207	33.334	42.116	42.758	0.00	0.00
ATOM	3137	O	MET	X	207	32.139	42.018	42.975	0.00	0.00
ATOM	3138	N	HIE	X	208	33.849	43.162	42.127	0.00	0.00
ATOM	3139	H	HIE	X	208	34.845	43.328	42.081	0.00	0.00
ATOM	3140	CA	HIE	X	208	33.066	44.191	41.471	0.00	0.00
ATOM	3141	HA	HIE	X	208	32.469	44.605	42.284	0.00	0.00
ATOM	3142	CB	HIE	X	208	33.952	45.294	40.939	0.00	0.00
ATOM	3143	HB2	HIE	X	208	34.594	44.840	40.184	0.00	0.00
ATOM	3144	HB3	HIE	X	208	33.370	46.082	40.460	0.00	0.00
ATOM	3145	CG	HIE	X	208	34.793	46.055	41.927	0.00	0.00
ATOM	3146	ND1	HIE	X	208	34.370	46.530	43.193	0.00	0.00
ATOM	3147	CE1	HIE	X	208	35.546	47.089	43.658	0.00	0.00
ATOM	3148	HE1	HIE	X	208	35.674	47.646	44.575	0.00	0.00

ATOM	3149	NE2	HIE	X	208	36.591	46.976	42.869	0.00	0.00
ATOM	3150	HE2	HIE	X	208	37.511	47.328	43.095	0.00	0.00
ATOM	3151	CD2	HIE	X	208	36.108	46.336	41.732	0.00	0.00
ATOM	3152	HD2	HIE	X	208	36.757	46.031	40.925	0.00	0.00
ATOM	3153	C	HIE	X	208	32.032	43.565	40.398	0.00	0.00
ATOM	3154	O	HIE	X	208	30.852	44.085	40.399	0.00	0.00
ATOM	3155	N	LEU	X	209	32.412	42.465	39.742	0.00	0.00
ATOM	3156	H	LEU	X	209	33.376	42.168	39.711	0.00	0.00
ATOM	3157	CA	LEU	X	209	31.519	41.830	38.721	0.00	0.00
ATOM	3158	HA	LEU	X	209	30.999	42.659	38.239	0.00	0.00
ATOM	3159	CB	LEU	X	209	32.511	41.047	37.803	0.00	0.00
ATOM	3160	HB2	LEU	X	209	33.138	41.835	37.386	0.00	0.00
ATOM	3161	HB3	LEU	X	209	32.939	40.235	38.391	0.00	0.00
ATOM	3162	CG	LEU	X	209	31.892	40.391	36.536	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.131	39.667	36.828	0.00	0.00
ATOM	3164	CD1	LEU	X	209	31.262	41.418	35.569	0.00	0.00
ATOM	3165	HD11	LEU	X	209	30.521	42.039	36.071	0.00	0.00
ATOM	3166	HD12	LEU	X	209	32.039	42.076	35.180	0.00	0.00
ATOM	3167	HD13	LEU	X	209	30.879	40.848	34.723	0.00	0.00
ATOM	3168	CD2	LEU	X	209	32.976	39.529	35.876	0.00	0.00
ATOM	3169	HD21	LEU	X	209	33.959	39.995	35.944	0.00	0.00
ATOM	3170	HD22	LEU	X	209	32.952	38.598	36.442	0.00	0.00
ATOM	3171	HD23	LEU	X	209	32.772	39.250	34.842	0.00	0.00
ATOM	3172	C	LEU	X	209	30.417	41.004	39.365	0.00	0.00
ATOM	3173	O	LEU	X	209	29.492	40.630	38.688	0.00	0.00
ATOM	3174	N	LEU	X	210	30.557	40.738	40.633	0.00	0.00
ATOM	3175	H	LEU	X	210	31.397	41.079	41.078	0.00	0.00
ATOM	3176	CA	LEU	X	210	29.490	40.069	41.459	0.00	0.00
ATOM	3177	HA	LEU	X	210	28.775	39.602	40.782	0.00	0.00
ATOM	3178	CB	LEU	X	210	30.126	38.998	42.443	0.00	0.00
ATOM	3179	HB2	LEU	X	210	30.884	39.564	42.986	0.00	0.00
ATOM	3180	HB3	LEU	X	210	29.399	38.647	43.175	0.00	0.00
ATOM	3181	CG	LEU	X	210	30.897	37.791	41.952	0.00	0.00
ATOM	3182	HG	LEU	X	210	31.625	38.020	41.173	0.00	0.00
ATOM	3183	CD1	LEU	X	210	31.667	37.208	43.151	0.00	0.00
ATOM	3184	HD11	LEU	X	210	31.994	36.188	42.950	0.00	0.00
ATOM	3185	HD12	LEU	X	210	32.521	37.858	43.342	0.00	0.00
ATOM	3186	HD13	LEU	X	210	31.079	37.052	44.056	0.00	0.00
ATOM	3187	CD2	LEU	X	210	29.996	36.650	41.435	0.00	0.00
ATOM	3188	HD21	LEU	X	210	29.135	36.330	42.021	0.00	0.00
ATOM	3189	HD22	LEU	X	210	29.588	36.897	40.455	0.00	0.00
ATOM	3190	HD23	LEU	X	210	30.542	35.748	41.159	0.00	0.00
ATOM	3191	C	LEU	X	210	28.720	41.032	42.380	0.00	0.00
ATOM	3192	O	LEU	X	210	27.512	40.905	42.497	0.00	0.00
ATOM	3193	N	SER	X	211	29.335	41.947	42.977	0.00	0.00
ATOM	3194	H	SER	X	211	30.298	42.046	42.689	0.00	0.00
ATOM	3195	CA	SER	X	211	28.823	42.957	43.920	0.00	0.00
ATOM	3196	HA	SER	X	211	28.294	42.375	44.675	0.00	0.00
ATOM	3197	CB	SER	X	211	30.016	43.732	44.438	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.778	43.016	44.749	0.00	0.00
ATOM	3199	HB3	SER	X	211	30.402	44.378	43.649	0.00	0.00
ATOM	3200	OG	SER	X	211	29.634	44.540	45.507	0.00	0.00
ATOM	3201	HG	SER	X	211	28.913	44.097	45.961	0.00	0.00
ATOM	3202	C	SER	X	211	27.911	44.065	43.357	0.00	0.00
ATOM	3203	O	SER	X	211	28.414	44.842	42.571	0.00	0.00
ATOM	3204	N	PRO	X	212	26.557	44.067	43.593	0.00	0.00
ATOM	3205	CD	PRO	X	212	25.843	43.058	44.367	0.00	0.00
ATOM	3206	HD2	PRO	X	212	25.876	43.446	45.386	0.00	0.00
ATOM	3207	HD3	PRO	X	212	26.292	42.069	44.277	0.00	0.00
ATOM	3208	CG	PRO	X	212	24.434	43.112	43.916	0.00	0.00
ATOM	3209	HG2	PRO	X	212	23.753	42.756	44.689	0.00	0.00
ATOM	3210	HG3	PRO	X	212	24.268	42.506	43.026	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.296	44.606	43.564	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.202	45.218	44.461	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.453	44.738	42.885	0.00	0.00
ATOM	3214	CA	PRO	X	212	25.614	44.919	42.924	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.400	44.634	41.894	0.00	0.00
ATOM	3216	C	PRO	X	212	25.952	46.403	42.979	0.00	0.00
ATOM	3217	O	PRO	X	212	25.834	47.002	41.894	0.00	0.00
ATOM	3218	N	PRO	X	213	26.460	47.000	44.100	0.00	0.00

ATOM	3219	CD	PRO	X	213	26.442	46.462	45.476	0.00	0.00
ATOM	3220	HD2	PRO	X	213	27.384	45.951	45.676	0.00	0.00
ATOM	3221	HD3	PRO	X	213	25.558	45.849	45.655	0.00	0.00
ATOM	3222	CG	PRO	X	213	26.291	47.705	46.344	0.00	0.00
ATOM	3223	HG2	PRO	X	213	26.688	47.561	47.349	0.00	0.00
ATOM	3224	HG3	PRO	X	213	25.213	47.864	46.340	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.939	48.808	45.498	0.00	0.00
ATOM	3226	HB2	PRO	X	213	28.007	48.897	45.692	0.00	0.00
ATOM	3227	HB3	PRO	X	213	26.494	49.779	45.717	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.669	48.438	44.086	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.740	48.941	43.820	0.00	0.00
ATOM	3230	C	PRO	X	213	27.858	48.840	43.247	0.00	0.00
ATOM	3231	O	PRO	X	213	27.825	49.943	42.737	0.00	0.00
ATOM	3232	N	SER	X	214	28.903	47.977	43.128	0.00	0.00
ATOM	3233	H	SER	X	214	28.862	46.996	43.363	0.00	0.00
ATOM	3234	CA	SER	X	214	30.004	48.373	42.177	0.00	0.00
ATOM	3235	HA	SER	X	214	30.283	49.382	42.483	0.00	0.00
ATOM	3236	CB	SER	X	214	31.220	47.449	42.453	0.00	0.00
ATOM	3237	HB2	SER	X	214	30.865	46.423	42.354	0.00	0.00
ATOM	3238	HB3	SER	X	214	32.028	47.623	41.743	0.00	0.00
ATOM	3239	OG	SER	X	214	31.799	47.768	43.710	0.00	0.00
ATOM	3240	HG	SER	X	214	32.712	47.487	43.802	0.00	0.00
ATOM	3241	C	SER	X	214	29.630	48.204	40.734	0.00	0.00
ATOM	3242	O	SER	X	214	30.023	49.049	39.906	0.00	0.00
ATOM	3243	N	ARG	X	215	28.876	47.132	40.478	0.00	0.00
ATOM	3244	H	ARG	X	215	28.646	46.485	41.218	0.00	0.00
ATOM	3245	CA	ARG	X	215	28.419	46.763	39.087	0.00	0.00
ATOM	3246	HA	ARG	X	215	29.356	46.638	38.544	0.00	0.00
ATOM	3247	CB	ARG	X	215	27.580	45.482	39.091	0.00	0.00
ATOM	3248	HB2	ARG	X	215	27.889	44.877	39.943	0.00	0.00
ATOM	3249	HB3	ARG	X	215	26.527	45.723	39.232	0.00	0.00
ATOM	3250	CG	ARG	X	215	27.822	44.720	37.771	0.00	0.00
ATOM	3251	HG2	ARG	X	215	27.296	45.202	36.947	0.00	0.00
ATOM	3252	HG3	ARG	X	215	28.874	44.871	37.528	0.00	0.00
ATOM	3253	CD	ARG	X	215	27.697	43.246	38.062	0.00	0.00
ATOM	3254	HD2	ARG	X	215	28.203	42.651	37.301	0.00	0.00
ATOM	3255	HD3	ARG	X	215	28.261	43.002	38.962	0.00	0.00
ATOM	3256	NE	ARG	X	215	26.271	42.788	38.253	0.00	0.00
ATOM	3257	HE	ARG	X	215	25.492	43.430	38.249	0.00	0.00
ATOM	3258	CZ	ARG	X	215	25.933	41.499	38.517	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.778	40.478	38.750	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.778	40.570	38.645	0.00	0.00
ATOM	3261	HH12	ARG	X	215	26.433	39.553	38.965	0.00	0.00
ATOM	3262	NH2	ARG	X	215	24.717	41.125	38.635	0.00	0.00
ATOM	3263	HH21	ARG	X	215	23.968	41.640	38.196	0.00	0.00
ATOM	3264	HH22	ARG	X	215	24.525	40.144	38.783	0.00	0.00
ATOM	3265	C	ARG	X	215	27.569	47.811	38.242	0.00	0.00
ATOM	3266	O	ARG	X	215	27.665	47.774	37.047	0.00	0.00
ATOM	3267	N	GLY	X	216	26.850	48.734	38.870	0.00	0.00
ATOM	3268	H	GLY	X	216	26.694	48.712	39.867	0.00	0.00
ATOM	3269	CA	GLY	X	216	26.186	49.892	38.172	0.00	0.00
ATOM	3270	HA2	GLY	X	216	26.023	49.585	37.112	0.00	0.00
ATOM	3271	HA3	GLY	X	216	25.298	50.219	38.664	0.00	0.00
ATOM	3272	C	GLY	X	216	27.109	51.054	37.873	0.00	0.00
ATOM	3273	O	GLY	X	216	26.668	52.163	37.575	0.00	0.00
ATOM	3274	N	LEU	X	217	28.455	50.877	37.904	0.00	0.00
ATOM	3275	H	LEU	X	217	28.841	50.014	38.257	0.00	0.00
ATOM	3276	CA	LEU	X	217	29.505	51.826	37.557	0.00	0.00
ATOM	3277	HA	LEU	X	217	29.086	52.826	37.446	0.00	0.00
ATOM	3278	CB	LEU	X	217	30.528	52.012	38.731	0.00	0.00
ATOM	3279	HB2	LEU	X	217	31.150	51.117	38.746	0.00	0.00
ATOM	3280	HB3	LEU	X	217	31.111	52.918	38.570	0.00	0.00
ATOM	3281	CG	LEU	X	217	29.873	52.242	40.165	0.00	0.00
ATOM	3282	HG	LEU	X	217	29.250	51.373	40.378	0.00	0.00
ATOM	3283	CD1	LEU	X	217	30.915	52.266	41.233	0.00	0.00
ATOM	3284	HD11	LEU	X	217	30.519	52.223	42.247	0.00	0.00
ATOM	3285	HD12	LEU	X	217	31.545	51.394	41.055	0.00	0.00
ATOM	3286	HD13	LEU	X	217	31.496	53.181	41.118	0.00	0.00
ATOM	3287	CD2	LEU	X	217	28.969	53.451	40.239	0.00	0.00
ATOM	3288	HD21	LEU	X	217	29.283	54.282	39.607	0.00	0.00

ATOM	3289	HD22	LEU	X	217	28.021	53.120	39.814	0.00	0.00
ATOM	3290	HD23	LEU	X	217	28.866	53.850	41.249	0.00	0.00
ATOM	3291	C	LEU	X	217	30.217	51.451	36.278	0.00	0.00
ATOM	3292	O	LEU	X	217	30.960	52.271	35.794	0.00	0.00
ATOM	3293	N	PHE	X	218	30.079	50.268	35.735	0.00	0.00
ATOM	3294	H	PHE	X	218	29.601	49.623	36.347	0.00	0.00
ATOM	3295	CA	PHE	X	218	30.916	49.756	34.692	0.00	0.00
ATOM	3296	HA	PHE	X	218	31.010	50.589	33.996	0.00	0.00
ATOM	3297	CB	PHE	X	218	32.227	49.310	35.218	0.00	0.00
ATOM	3298	HB2	PHE	X	218	32.877	49.209	34.348	0.00	0.00
ATOM	3299	HB3	PHE	X	218	32.714	50.048	35.855	0.00	0.00
ATOM	3300	CG	PHE	X	218	32.224	47.990	36.041	0.00	0.00
ATOM	3301	CD1	PHE	X	218	32.015	47.994	37.407	0.00	0.00
ATOM	3302	HD1	PHE	X	218	31.755	48.937	37.865	0.00	0.00
ATOM	3303	CE1	PHE	X	218	32.040	46.770	38.124	0.00	0.00
ATOM	3304	HE1	PHE	X	218	31.893	46.829	39.193	0.00	0.00
ATOM	3305	CZ	PHE	X	218	32.202	45.550	37.412	0.00	0.00
ATOM	3306	HZ	PHE	X	218	32.200	44.621	37.963	0.00	0.00
ATOM	3307	CE2	PHE	X	218	32.297	45.514	36.032	0.00	0.00
ATOM	3308	HE2	PHE	X	218	32.416	44.533	35.597	0.00	0.00
ATOM	3309	CD2	PHE	X	218	32.353	46.757	35.353	0.00	0.00
ATOM	3310	HD2	PHE	X	218	32.480	46.739	34.281	0.00	0.00
ATOM	3311	C	PHE	X	218	30.335	48.640	33.854	0.00	0.00
ATOM	3312	O	PHE	X	218	29.634	47.774	34.365	0.00	0.00
ATOM	3313	N	HIE	X	219	30.712	48.545	32.630	0.00	0.00
ATOM	3314	H	HIE	X	219	31.313	49.256	32.238	0.00	0.00
ATOM	3315	CA	HIE	X	219	29.997	47.753	31.597	0.00	0.00
ATOM	3316	HA	HIE	X	219	28.940	47.637	31.834	0.00	0.00
ATOM	3317	CB	HIE	X	219	30.029	48.630	30.338	0.00	0.00
ATOM	3318	HB2	HIE	X	219	30.968	48.786	29.808	0.00	0.00
ATOM	3319	HB3	HIE	X	219	29.286	48.166	29.689	0.00	0.00
ATOM	3320	CG	HIE	X	219	29.551	50.049	30.655	0.00	0.00
ATOM	3321	ND1	HIE	X	219	30.424	51.094	30.969	0.00	0.00
ATOM	3322	CE1	HIE	X	219	29.684	52.076	31.513	0.00	0.00
ATOM	3323	HE1	HIE	X	219	30.092	53.017	31.850	0.00	0.00
ATOM	3324	NE2	HIE	X	219	28.457	51.728	31.597	0.00	0.00
ATOM	3325	HE2	HIE	X	219	27.738	52.255	32.072	0.00	0.00
ATOM	3326	CD2	HIE	X	219	28.274	50.466	31.069	0.00	0.00
ATOM	3327	HD2	HIE	X	219	27.402	49.831	31.128	0.00	0.00
ATOM	3328	C	HIE	X	219	30.486	46.371	31.204	0.00	0.00
ATOM	3329	O	HIE	X	219	29.713	45.640	30.542	0.00	0.00
ATOM	3330	N	ARG	X	220	31.828	46.317	31.297	0.00	0.00
ATOM	3331	H	ARG	X	220	32.269	47.026	31.866	0.00	0.00
ATOM	3332	CA	ARG	X	220	32.737	45.278	30.792	0.00	0.00
ATOM	3333	HA	ARG	X	220	32.187	44.343	30.685	0.00	0.00
ATOM	3334	CB	ARG	X	220	33.367	45.655	29.362	0.00	0.00
ATOM	3335	HB2	ARG	X	220	33.872	46.621	29.374	0.00	0.00
ATOM	3336	HB3	ARG	X	220	34.094	44.983	28.906	0.00	0.00
ATOM	3337	CG	ARG	X	220	32.169	45.824	28.310	0.00	0.00
ATOM	3338	HG2	ARG	X	220	31.534	44.938	28.339	0.00	0.00
ATOM	3339	HG3	ARG	X	220	31.521	46.615	28.687	0.00	0.00
ATOM	3340	CD	ARG	X	220	32.659	46.001	26.948	0.00	0.00
ATOM	3341	HD2	ARG	X	220	33.266	46.897	26.819	0.00	0.00
ATOM	3342	HD3	ARG	X	220	33.185	45.122	26.575	0.00	0.00
ATOM	3343	NE	ARG	X	220	31.557	46.188	25.964	0.00	0.00
ATOM	3344	HE	ARG	X	220	31.176	45.383	25.489	0.00	0.00
ATOM	3345	CZ	ARG	X	220	30.866	47.337	25.866	0.00	0.00
ATOM	3346	NH1	ARG	X	220	31.238	48.457	26.490	0.00	0.00
ATOM	3347	HH11	ARG	X	220	32.102	48.459	27.014	0.00	0.00
ATOM	3348	HH12	ARG	X	220	30.728	49.300	26.266	0.00	0.00
ATOM	3349	NH2	ARG	X	220	29.830	47.314	25.061	0.00	0.00
ATOM	3350	HH21	ARG	X	220	29.787	46.523	24.435	0.00	0.00
ATOM	3351	HH22	ARG	X	220	29.133	48.025	25.229	0.00	0.00
ATOM	3352	C	ARG	X	220	33.890	45.123	31.788	0.00	0.00
ATOM	3353	O	ARG	X	220	34.373	46.115	32.348	0.00	0.00
ATOM	3354	N	ALA	X	221	34.534	43.949	31.787	0.00	0.00
ATOM	3355	H	ALA	X	221	34.149	43.153	31.300	0.00	0.00
ATOM	3356	CA	ALA	X	221	35.709	43.609	32.613	0.00	0.00
ATOM	3357	HA	ALA	X	221	36.328	44.445	32.938	0.00	0.00
ATOM	3358	CB	ALA	X	221	35.104	42.974	33.937	0.00	0.00

ATOM	3359	HB1	ALA	X	221	34.611	43.784	34.473	0.00	0.00
ATOM	3360	HB2	ALA	X	221	34.368	42.209	33.687	0.00	0.00
ATOM	3361	HB3	ALA	X	221	35.836	42.472	34.570	0.00	0.00
ATOM	3362	C	ALA	X	221	36.674	42.572	31.978	0.00	0.00
ATOM	3363	O	ALA	X	221	36.334	41.717	31.183	0.00	0.00
ATOM	3364	N	VAL	X	222	37.984	42.813	32.261	0.00	0.00
ATOM	3365	H	VAL	X	222	38.271	43.517	32.926	0.00	0.00
ATOM	3366	CA	VAL	X	222	39.032	41.926	31.897	0.00	0.00
ATOM	3367	HA	VAL	X	222	38.670	41.118	31.261	0.00	0.00
ATOM	3368	CB	VAL	X	222	40.008	42.789	31.064	0.00	0.00
ATOM	3369	HB	VAL	X	222	40.406	43.650	31.602	0.00	0.00
ATOM	3370	CG1	VAL	X	222	41.299	41.981	30.633	0.00	0.00
ATOM	3371	HG11	VAL	X	222	41.608	41.261	31.391	0.00	0.00
ATOM	3372	HG12	VAL	X	222	41.134	41.384	29.736	0.00	0.00
ATOM	3373	HG13	VAL	X	222	42.184	42.594	30.464	0.00	0.00
ATOM	3374	CG2	VAL	X	222	39.370	43.565	29.756	0.00	0.00
ATOM	3375	HG21	VAL	X	222	38.992	42.756	29.130	0.00	0.00
ATOM	3376	HG22	VAL	X	222	38.603	44.267	30.083	0.00	0.00
ATOM	3377	HG23	VAL	X	222	40.170	44.118	29.264	0.00	0.00
ATOM	3378	C	VAL	X	222	39.623	41.307	33.141	0.00	0.00
ATOM	3379	O	VAL	X	222	39.762	42.041	34.180	0.00	0.00
ATOM	3380	N	LEU	X	223	39.950	40.006	33.100	0.00	0.00
ATOM	3381	H	LEU	X	223	39.718	39.431	32.302	0.00	0.00
ATOM	3382	CA	LEU	X	223	40.632	39.309	34.162	0.00	0.00
ATOM	3383	HA	LEU	X	223	41.101	40.007	34.855	0.00	0.00
ATOM	3384	CB	LEU	X	223	39.702	38.383	34.875	0.00	0.00
ATOM	3385	HB2	LEU	X	223	39.115	37.696	34.266	0.00	0.00
ATOM	3386	HB3	LEU	X	223	40.331	37.741	35.492	0.00	0.00
ATOM	3387	CG	LEU	X	223	38.637	39.123	35.739	0.00	0.00
ATOM	3388	HG	LEU	X	223	39.009	40.061	36.150	0.00	0.00
ATOM	3389	CD1	LEU	X	223	37.348	39.401	34.982	0.00	0.00
ATOM	3390	HD11	LEU	X	223	36.618	39.542	35.778	0.00	0.00
ATOM	3391	HD12	LEU	X	223	37.375	40.250	34.299	0.00	0.00
ATOM	3392	HD13	LEU	X	223	37.049	38.500	34.446	0.00	0.00
ATOM	3393	CD2	LEU	X	223	38.241	38.083	36.859	0.00	0.00
ATOM	3394	HD21	LEU	X	223	37.836	37.236	36.305	0.00	0.00
ATOM	3395	HD22	LEU	X	223	39.142	37.887	37.441	0.00	0.00
ATOM	3396	HD23	LEU	X	223	37.566	38.606	37.536	0.00	0.00
ATOM	3397	C	LEU	X	223	41.692	38.463	33.495	0.00	0.00
ATOM	3398	O	LEU	X	223	41.390	37.766	32.490	0.00	0.00
ATOM	3399	N	GLN	X	224	42.879	38.425	34.123	0.00	0.00
ATOM	3400	H	GLN	X	224	42.962	38.946	34.984	0.00	0.00
ATOM	3401	CA	GLN	X	224	44.135	37.879	33.702	0.00	0.00
ATOM	3402	HA	GLN	X	224	43.919	37.053	33.024	0.00	0.00
ATOM	3403	CB	GLN	X	224	45.002	38.945	32.937	0.00	0.00
ATOM	3404	HB2	GLN	X	224	45.296	39.520	33.816	0.00	0.00
ATOM	3405	HB3	GLN	X	224	45.828	38.363	32.527	0.00	0.00
ATOM	3406	CG	GLN	X	224	44.282	39.824	31.890	0.00	0.00
ATOM	3407	HG2	GLN	X	224	43.837	39.156	31.152	0.00	0.00
ATOM	3408	HG3	GLN	X	224	43.473	40.447	32.269	0.00	0.00
ATOM	3409	CD	GLN	X	224	45.152	40.772	31.153	0.00	0.00
ATOM	3410	OE1	GLN	X	224	44.725	41.909	30.913	0.00	0.00
ATOM	3411	NE2	GLN	X	224	46.330	40.392	30.722	0.00	0.00
ATOM	3412	HE21	GLN	X	224	46.736	41.045	30.067	0.00	0.00
ATOM	3413	HE22	GLN	X	224	46.596	39.423	30.823	0.00	0.00
ATOM	3414	C	GLN	X	224	44.902	37.216	34.886	0.00	0.00
ATOM	3415	O	GLN	X	224	45.088	37.816	35.958	0.00	0.00
ATOM	3416	N	SER	X	225	45.362	35.971	34.715	0.00	0.00
ATOM	3417	H	SER	X	225	45.252	35.469	33.846	0.00	0.00
ATOM	3418	CA	SER	X	225	46.094	35.210	35.750	0.00	0.00
ATOM	3419	HA	SER	X	225	46.087	34.155	35.476	0.00	0.00
ATOM	3420	CB	SER	X	225	47.571	35.583	35.873	0.00	0.00
ATOM	3421	HB2	SER	X	225	47.708	36.663	35.817	0.00	0.00
ATOM	3422	HB3	SER	X	225	47.988	35.318	36.844	0.00	0.00
ATOM	3423	OG	SER	X	225	48.418	35.018	34.918	0.00	0.00
ATOM	3424	HG	SER	X	225	48.497	34.064	34.989	0.00	0.00
ATOM	3425	C	SER	X	225	45.434	35.146	37.199	0.00	0.00
ATOM	3426	O	SER	X	225	45.926	35.088	38.274	0.00	0.00
ATOM	3427	N	GLY	X	226	44.121	34.995	37.178	0.00	0.00
ATOM	3428	H	GLY	X	226	43.690	34.955	36.266	0.00	0.00

ATOM	3429	CA	GLY	X	226	43.313	35.308	38.320	0.00	0.00
ATOM	3430	HA2	GLY	X	226	43.417	34.472	39.045	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.599	36.199	38.834	0.00	0.00
ATOM	3432	C	GLY	X	226	41.834	35.223	37.957	0.00	0.00
ATOM	3433	O	GLY	X	226	41.428	35.616	36.871	0.00	0.00
ATOM	3434	N	ALA	X	227	41.068	34.700	38.854	0.00	0.00
ATOM	3435	H	ALA	X	227	41.412	34.310	39.720	0.00	0.00
ATOM	3436	CA	ALA	X	227	39.638	34.831	39.008	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.268	35.663	38.410	0.00	0.00
ATOM	3438	CB	ALA	X	227	38.941	33.601	38.460	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.128	32.773	39.145	0.00	0.00
ATOM	3440	HB2	ALA	X	227	37.854	33.659	38.513	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.248	33.287	37.463	0.00	0.00
ATOM	3442	C	ALA	X	227	39.134	35.029	40.466	0.00	0.00
ATOM	3443	O	ALA	X	227	39.831	34.493	41.354	0.00	0.00
ATOM	3444	N	PRO	X	228	37.948	35.684	40.830	0.00	0.00
ATOM	3445	CD	PRO	X	228	36.944	36.149	39.956	0.00	0.00
ATOM	3446	HD2	PRO	X	228	36.681	35.472	39.143	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.251	37.065	39.451	0.00	0.00
ATOM	3448	CG	PRO	X	228	35.708	36.410	40.907	0.00	0.00
ATOM	3449	HG2	PRO	X	228	35.098	35.542	41.157	0.00	0.00
ATOM	3450	HG3	PRO	X	228	35.023	37.180	40.552	0.00	0.00
ATOM	3451	CB	PRO	X	228	36.453	36.862	42.172	0.00	0.00
ATOM	3452	HB2	PRO	X	228	35.811	36.815	43.052	0.00	0.00
ATOM	3453	HB3	PRO	X	228	36.744	37.906	42.056	0.00	0.00
ATOM	3454	CA	PRO	X	228	37.605	35.950	42.227	0.00	0.00
ATOM	3455	HA	PRO	X	228	38.398	36.469	42.766	0.00	0.00
ATOM	3456	C	PRO	X	228	37.234	34.732	43.033	0.00	0.00
ATOM	3457	O	PRO	X	228	37.498	34.707	44.251	0.00	0.00
ATOM	3458	N	ASN	X	229	36.739	33.733	42.338	0.00	0.00
ATOM	3459	H	ASN	X	229	36.806	33.723	41.331	0.00	0.00
ATOM	3460	CA	ASN	X	229	36.420	32.401	42.868	0.00	0.00
ATOM	3461	HA	ASN	X	229	36.047	32.554	43.881	0.00	0.00
ATOM	3462	CB	ASN	X	229	35.343	31.739	42.027	0.00	0.00
ATOM	3463	HB2	ASN	X	229	34.996	30.827	42.513	0.00	0.00
ATOM	3464	HB3	ASN	X	229	34.502	32.431	42.072	0.00	0.00
ATOM	3465	CG	ASN	X	229	35.722	31.529	40.522	0.00	0.00
ATOM	3466	OD1	ASN	X	229	35.292	32.294	39.652	0.00	0.00
ATOM	3467	ND2	ASN	X	229	36.208	30.358	40.180	0.00	0.00
ATOM	3468	HD21	ASN	X	229	36.298	30.151	39.195	0.00	0.00
ATOM	3469	HD22	ASN	X	229	36.244	29.572	40.813	0.00	0.00
ATOM	3470	C	ASN	X	229	37.653	31.485	43.144	0.00	0.00
ATOM	3471	O	ASN	X	229	37.410	30.378	43.617	0.00	0.00
ATOM	3472	N	GLY	X	230	38.877	32.041	43.030	0.00	0.00
ATOM	3473	H	GLY	X	230	38.940	32.922	42.542	0.00	0.00
ATOM	3474	CA	GLY	X	230	40.119	31.455	43.446	0.00	0.00
ATOM	3475	HA2	GLY	X	230	40.231	30.369	43.192	0.00	0.00
ATOM	3476	HA3	GLY	X	230	40.983	31.921	43.002	0.00	0.00
ATOM	3477	C	GLY	X	230	40.320	31.616	44.991	0.00	0.00
ATOM	3478	O	GLY	X	230	40.025	32.696	45.490	0.00	0.00
ATOM	3479	N	PRO	X	231	40.725	30.567	45.731	0.00	0.00
ATOM	3480	CD	PRO	X	231	41.479	29.409	45.210	0.00	0.00
ATOM	3481	HD2	PRO	X	231	42.326	29.751	44.614	0.00	0.00
ATOM	3482	HD3	PRO	X	231	40.792	28.863	44.564	0.00	0.00
ATOM	3483	CG	PRO	X	231	41.936	28.602	46.430	0.00	0.00
ATOM	3484	HG2	PRO	X	231	42.945	28.837	46.767	0.00	0.00
ATOM	3485	HG3	PRO	X	231	41.756	27.540	46.259	0.00	0.00
ATOM	3486	CB	PRO	X	231	40.928	29.047	47.489	0.00	0.00
ATOM	3487	HB2	PRO	X	231	41.304	28.851	48.493	0.00	0.00
ATOM	3488	HB3	PRO	X	231	40.087	28.361	47.387	0.00	0.00
ATOM	3489	CA	PRO	X	231	40.602	30.521	47.173	0.00	0.00
ATOM	3490	HA	PRO	X	231	39.583	30.603	47.553	0.00	0.00
ATOM	3491	C	PRO	X	231	41.516	31.422	47.970	0.00	0.00
ATOM	3492	O	PRO	X	231	41.222	31.727	49.068	0.00	0.00
ATOM	3493	N	TRP	X	232	42.634	31.829	47.395	0.00	0.00
ATOM	3494	H	TRP	X	232	42.722	31.667	46.402	0.00	0.00
ATOM	3495	CA	TRP	X	232	43.597	32.757	48.056	0.00	0.00
ATOM	3496	HA	TRP	X	232	43.708	32.409	49.083	0.00	0.00
ATOM	3497	CB	TRP	X	232	44.877	32.696	47.146	0.00	0.00
ATOM	3498	HB2	TRP	X	232	45.629	33.394	47.513	0.00	0.00

ATOM	3499	HB3	TRP	X	232	45.198	31.660	47.252	0.00	0.00
ATOM	3500	CG	TRP	X	232	44.603	32.901	45.687	0.00	0.00
ATOM	3501	CD1	TRP	X	232	44.415	31.899	44.735	0.00	0.00
ATOM	3502	HD1	TRP	X	232	44.588	30.854	44.947	0.00	0.00
ATOM	3503	NE1	TRP	X	232	43.944	32.481	43.559	0.00	0.00
ATOM	3504	HE1	TRP	X	232	43.709	31.926	42.748	0.00	0.00
ATOM	3505	CE2	TRP	X	232	43.969	33.859	43.673	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	43.766	34.838	42.770	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	43.464	34.476	41.798	0.00	0.00
ATOM	3508	CH2	TRP	X	232	44.154	36.157	43.061	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.170	36.957	42.335	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	44.591	36.518	44.367	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	44.872	37.523	44.645	0.00	0.00
ATOM	3512	CE3	TRP	X	232	44.613	35.455	45.347	0.00	0.00
ATOM	3513	HE3	TRP	X	232	44.844	35.677	46.378	0.00	0.00
ATOM	3514	CD2	TRP	X	232	44.414	34.106	45.015	0.00	0.00
ATOM	3515	C	TRP	X	232	43.104	34.232	48.087	0.00	0.00
ATOM	3516	O	TRP	X	232	43.616	35.085	48.830	0.00	0.00
ATOM	3517	N	ALA	X	233	42.087	34.454	47.273	0.00	0.00
ATOM	3518	H	ALA	X	233	41.700	33.726	46.690	0.00	0.00
ATOM	3519	CA	ALA	X	233	41.402	35.792	47.253	0.00	0.00
ATOM	3520	HA	ALA	X	233	42.242	36.467	47.416	0.00	0.00
ATOM	3521	CB	ALA	X	233	40.911	35.966	45.846	0.00	0.00
ATOM	3522	HB1	ALA	X	233	40.421	36.911	45.612	0.00	0.00
ATOM	3523	HB2	ALA	X	233	41.790	35.932	45.202	0.00	0.00
ATOM	3524	HB3	ALA	X	233	40.202	35.158	45.667	0.00	0.00
ATOM	3525	C	ALA	X	233	40.350	36.086	48.318	0.00	0.00
ATOM	3526	O	ALA	X	233	39.645	37.069	48.229	0.00	0.00
ATOM	3527	N	THR	X	234	40.025	35.126	49.265	0.00	0.00
ATOM	3528	H	THR	X	234	40.525	34.249	49.296	0.00	0.00
ATOM	3529	CA	THR	X	234	38.979	35.431	50.312	0.00	0.00
ATOM	3530	HA	THR	X	234	39.003	36.515	50.426	0.00	0.00
ATOM	3531	CB	THR	X	234	37.553	34.966	49.831	0.00	0.00
ATOM	3532	HB	THR	X	234	37.410	33.885	49.813	0.00	0.00
ATOM	3533	CG2	THR	X	234	36.314	35.535	50.603	0.00	0.00
ATOM	3534	HG21	THR	X	234	36.113	34.901	51.467	0.00	0.00
ATOM	3535	HG22	THR	X	234	36.437	36.565	50.937	0.00	0.00
ATOM	3536	HG23	THR	X	234	35.387	35.460	50.033	0.00	0.00
ATOM	3537	OG1	THR	X	234	37.425	35.453	48.545	0.00	0.00
ATOM	3538	HG1	THR	X	234	38.158	36.067	48.458	0.00	0.00
ATOM	3539	C	THR	X	234	39.375	34.651	51.600	0.00	0.00
ATOM	3540	O	THR	X	234	40.196	33.768	51.576	0.00	0.00
ATOM	3541	N	VAL	X	235	38.616	34.978	52.648	0.00	0.00
ATOM	3542	H	VAL	X	235	38.041	35.792	52.487	0.00	0.00
ATOM	3543	CA	VAL	X	235	38.485	34.200	53.892	0.00	0.00
ATOM	3544	HA	VAL	X	235	38.539	33.158	53.577	0.00	0.00
ATOM	3545	CB	VAL	X	235	39.732	34.506	54.786	0.00	0.00
ATOM	3546	HB	VAL	X	235	40.566	34.570	54.087	0.00	0.00
ATOM	3547	CG1	VAL	X	235	39.476	35.871	55.461	0.00	0.00
ATOM	3548	HG11	VAL	X	235	39.124	36.584	54.715	0.00	0.00
ATOM	3549	HG12	VAL	X	235	38.661	35.804	56.181	0.00	0.00
ATOM	3550	HG13	VAL	X	235	40.386	36.252	55.924	0.00	0.00
ATOM	3551	CG2	VAL	X	235	40.124	33.437	55.782	0.00	0.00
ATOM	3552	HG21	VAL	X	235	39.390	33.490	56.585	0.00	0.00
ATOM	3553	HG22	VAL	X	235	39.963	32.434	55.387	0.00	0.00
ATOM	3554	HG23	VAL	X	235	41.127	33.550	56.194	0.00	0.00
ATOM	3555	C	VAL	X	235	37.192	34.416	54.581	0.00	0.00
ATOM	3556	O	VAL	X	235	36.492	35.400	54.269	0.00	0.00
ATOM	3557	N	GLY	X	236	36.911	33.542	55.550	0.00	0.00
ATOM	3558	H	GLY	X	236	37.633	32.875	55.782	0.00	0.00
ATOM	3559	CA	GLY	X	236	35.775	33.767	56.428	0.00	0.00
ATOM	3560	HA2	GLY	X	236	34.929	34.310	56.020	0.00	0.00
ATOM	3561	HA3	GLY	X	236	35.387	32.767	56.810	0.00	0.00
ATOM	3562	C	GLY	X	236	36.095	34.514	57.652	0.00	0.00
ATOM	3563	O	GLY	X	236	37.254	34.633	58.045	0.00	0.00
ATOM	3564	N	MET	X	237	35.136	35.211	58.235	0.00	0.00
ATOM	3565	H	MET	X	237	34.215	35.263	57.826	0.00	0.00
ATOM	3566	CA	MET	X	237	35.347	36.167	59.262	0.00	0.00
ATOM	3567	HA	MET	X	237	35.966	36.951	58.826	0.00	0.00
ATOM	3568	CB	MET	X	237	34.034	36.814	59.578	0.00	0.00

ATOM	3569	HB2	MET	X	237	34.272	37.495	60.396	0.00	0.00
ATOM	3570	HB3	MET	X	237	33.821	37.532	58.786	0.00	0.00
ATOM	3571	CG	MET	X	237	32.813	35.921	59.996	0.00	0.00
ATOM	3572	HG2	MET	X	237	32.529	35.185	59.244	0.00	0.00
ATOM	3573	HG3	MET	X	237	33.016	35.314	60.879	0.00	0.00
ATOM	3574	SD	MET	X	237	31.372	36.891	60.525	0.00	0.00
ATOM	3575	CE	MET	X	237	31.063	37.852	59.061	0.00	0.00
ATOM	3576	HE1	MET	X	237	30.277	38.596	59.183	0.00	0.00
ATOM	3577	HE2	MET	X	237	31.958	38.369	58.713	0.00	0.00
ATOM	3578	HE3	MET	X	237	30.596	37.241	58.289	0.00	0.00
ATOM	3579	C	MET	X	237	36.072	35.745	60.568	0.00	0.00
ATOM	3580	O	MET	X	237	36.641	36.556	61.277	0.00	0.00
ATOM	3581	N	GLY	X	238	36.047	34.467	60.929	0.00	0.00
ATOM	3582	H	GLY	X	238	35.522	33.816	60.364	0.00	0.00
ATOM	3583	CA	GLY	X	238	36.814	33.827	61.965	0.00	0.00
ATOM	3584	HA2	GLY	X	238	36.460	34.156	62.931	0.00	0.00
ATOM	3585	HA3	GLY	X	238	36.538	32.789	61.990	0.00	0.00
ATOM	3586	C	GLY	X	238	38.342	34.024	61.891	0.00	0.00
ATOM	3587	O	GLY	X	238	38.889	34.665	62.797	0.00	0.00
ATOM	3588	N	GLU	X	239	39.019	33.650	60.778	0.00	0.00
ATOM	3589	H	GLU	X	239	38.592	32.992	60.142	0.00	0.00
ATOM	3590	CA	GLU	X	239	40.440	33.949	60.606	0.00	0.00
ATOM	3591	HA	GLU	X	239	40.966	33.507	61.452	0.00	0.00
ATOM	3592	CB	GLU	X	239	40.920	33.430	59.209	0.00	0.00
ATOM	3593	HB2	GLU	X	239	40.158	33.557	58.439	0.00	0.00
ATOM	3594	HB3	GLU	X	239	41.739	34.038	58.824	0.00	0.00
ATOM	3595	CG	GLU	X	239	41.234	31.949	59.234	0.00	0.00
ATOM	3596	HG2	GLU	X	239	40.497	31.403	59.823	0.00	0.00
ATOM	3597	HG3	GLU	X	239	41.360	31.502	58.248	0.00	0.00
ATOM	3598	CD	GLU	X	239	42.678	31.786	59.731	0.00	0.00
ATOM	3599	OE1	GLU	X	239	43.697	32.340	59.227	0.00	0.00
ATOM	3600	OE2	GLU	X	239	42.793	31.217	60.842	0.00	0.00
ATOM	3601	C	GLU	X	239	40.614	35.429	60.530	0.00	0.00
ATOM	3602	O	GLU	X	239	41.562	35.963	61.076	0.00	0.00
ATOM	3603	N	ALA	X	240	39.704	36.260	60.000	0.00	0.00
ATOM	3604	H	ALA	X	240	38.920	35.791	59.570	0.00	0.00
ATOM	3605	CA	ALA	X	240	39.720	37.705	59.919	0.00	0.00
ATOM	3606	HA	ALA	X	240	40.642	37.935	59.385	0.00	0.00
ATOM	3607	CB	ALA	X	240	38.589	38.234	59.106	0.00	0.00
ATOM	3608	HB1	ALA	X	240	37.743	38.300	59.790	0.00	0.00
ATOM	3609	HB2	ALA	X	240	38.799	39.271	58.844	0.00	0.00
ATOM	3610	HB3	ALA	X	240	38.335	37.673	58.207	0.00	0.00
ATOM	3611	C	ALA	X	240	39.832	38.206	61.360	0.00	0.00
ATOM	3612	O	ALA	X	240	40.758	38.978	61.609	0.00	0.00
ATOM	3613	N	ARG	X	241	38.909	37.811	62.281	0.00	0.00
ATOM	3614	H	ARG	X	241	38.298	37.056	62.004	0.00	0.00
ATOM	3615	CA	ARG	X	241	38.896	38.122	63.706	0.00	0.00
ATOM	3616	HA	ARG	X	241	38.703	39.187	63.832	0.00	0.00
ATOM	3617	CB	ARG	X	241	37.732	37.332	64.364	0.00	0.00
ATOM	3618	HB2	ARG	X	241	36.818	37.702	63.900	0.00	0.00
ATOM	3619	HB3	ARG	X	241	37.850	36.285	64.084	0.00	0.00
ATOM	3620	CG	ARG	X	241	37.627	37.335	65.892	0.00	0.00
ATOM	3621	HG2	ARG	X	241	38.395	36.692	66.321	0.00	0.00
ATOM	3622	HG3	ARG	X	241	37.747	38.380	66.177	0.00	0.00
ATOM	3623	CD	ARG	X	241	36.278	36.810	66.431	0.00	0.00
ATOM	3624	HD2	ARG	X	241	36.341	36.789	67.519	0.00	0.00
ATOM	3625	HD3	ARG	X	241	35.447	37.454	66.144	0.00	0.00
ATOM	3626	NE	ARG	X	241	35.955	35.522	65.887	0.00	0.00
ATOM	3627	HE	ARG	X	241	36.743	34.920	65.694	0.00	0.00
ATOM	3628	CZ	ARG	X	241	34.719	35.054	65.496	0.00	0.00
ATOM	3629	NH1	ARG	X	241	33.574	35.772	65.472	0.00	0.00
ATOM	3630	HH11	ARG	X	241	33.546	36.608	66.038	0.00	0.00
ATOM	3631	HH12	ARG	X	241	32.719	35.439	65.050	0.00	0.00
ATOM	3632	NH2	ARG	X	241	34.659	33.808	64.980	0.00	0.00
ATOM	3633	HH21	ARG	X	241	35.511	33.274	64.882	0.00	0.00
ATOM	3634	HH22	ARG	X	241	33.762	33.429	64.712	0.00	0.00
ATOM	3635	C	ARG	X	241	40.226	37.697	64.290	0.00	0.00
ATOM	3636	O	ARG	X	241	40.929	38.562	64.792	0.00	0.00
ATOM	3637	N	ARG	X	242	40.585	36.461	64.210	0.00	0.00
ATOM	3638	H	ARG	X	242	39.872	35.843	63.849	0.00	0.00

ATOM	3639	CA	ARG	X	242	41.801	35.878	64.777	0.00	0.00
ATOM	3640	HA	ARG	X	242	41.720	35.776	65.859	0.00	0.00
ATOM	3641	CB	ARG	X	242	41.873	34.438	64.183	0.00	0.00
ATOM	3642	HB2	ARG	X	242	40.918	33.920	64.276	0.00	0.00
ATOM	3643	HB3	ARG	X	242	42.155	34.355	63.133	0.00	0.00
ATOM	3644	CG	ARG	X	242	42.957	33.645	65.002	0.00	0.00
ATOM	3645	HG2	ARG	X	242	43.867	34.224	65.158	0.00	0.00
ATOM	3646	HG3	ARG	X	242	42.500	33.422	65.967	0.00	0.00
ATOM	3647	CD	ARG	X	242	43.397	32.358	64.249	0.00	0.00
ATOM	3648	HD2	ARG	X	242	44.231	31.922	64.800	0.00	0.00
ATOM	3649	HD3	ARG	X	242	42.546	31.687	64.137	0.00	0.00
ATOM	3650	NE	ARG	X	242	43.972	32.608	62.896	0.00	0.00
ATOM	3651	HE	ARG	X	242	43.428	32.212	62.142	0.00	0.00
ATOM	3652	CZ	ARG	X	242	45.160	33.190	62.553	0.00	0.00
ATOM	3653	NH1	ARG	X	242	46.006	33.605	63.497	0.00	0.00
ATOM	3654	HH11	ARG	X	242	45.704	33.761	64.448	0.00	0.00
ATOM	3655	HH12	ARG	X	242	46.953	33.907	63.321	0.00	0.00
ATOM	3656	NH2	ARG	X	242	45.570	33.287	61.313	0.00	0.00
ATOM	3657	HH21	ARG	X	242	44.971	33.028	60.542	0.00	0.00
ATOM	3658	HH22	ARG	X	242	46.544	33.519	61.179	0.00	0.00
ATOM	3659	C	ARG	X	242	43.077	36.626	64.494	0.00	0.00
ATOM	3660	O	ARG	X	242	43.902	36.824	65.410	0.00	0.00
ATOM	3661	N	ARG	X	243	43.199	36.951	63.158	0.00	0.00
ATOM	3662	H	ARG	X	243	42.451	36.595	62.581	0.00	0.00
ATOM	3663	CA	ARG	X	243	44.313	37.777	62.692	0.00	0.00
ATOM	3664	HA	ARG	X	243	45.161	37.302	63.184	0.00	0.00
ATOM	3665	CB	ARG	X	243	44.402	37.844	61.149	0.00	0.00
ATOM	3666	HB2	ARG	X	243	43.423	38.130	60.764	0.00	0.00
ATOM	3667	HB3	ARG	X	243	45.125	38.582	60.802	0.00	0.00
ATOM	3668	CG	ARG	X	243	44.623	36.435	60.556	0.00	0.00
ATOM	3669	HG2	ARG	X	243	45.553	36.066	60.988	0.00	0.00
ATOM	3670	HG3	ARG	X	243	43.927	35.709	60.975	0.00	0.00
ATOM	3671	CD	ARG	X	243	44.696	36.324	59.072	0.00	0.00
ATOM	3672	HD2	ARG	X	243	43.920	36.942	58.620	0.00	0.00
ATOM	3673	HD3	ARG	X	243	45.650	36.777	58.800	0.00	0.00
ATOM	3674	NE	ARG	X	243	44.583	34.966	58.564	0.00	0.00
ATOM	3675	HE	ARG	X	243	44.359	34.234	59.222	0.00	0.00
ATOM	3676	CZ	ARG	X	243	44.759	34.629	57.301	0.00	0.00
ATOM	3677	NH1	ARG	X	243	45.285	35.412	56.425	0.00	0.00
ATOM	3678	HH11	ARG	X	243	45.653	36.301	56.734	0.00	0.00
ATOM	3679	HH12	ARG	X	243	45.615	35.030	55.551	0.00	0.00
ATOM	3680	NH2	ARG	X	243	44.404	33.415	56.905	0.00	0.00
ATOM	3681	HH21	ARG	X	243	43.861	32.966	57.628	0.00	0.00
ATOM	3682	HH22	ARG	X	243	44.478	32.843	56.076	0.00	0.00
ATOM	3683	C	ARG	X	243	44.268	39.210	63.152	0.00	0.00
ATOM	3684	O	ARG	X	243	45.223	39.553	63.873	0.00	0.00
ATOM	3685	N	ALA	X	244	43.132	39.949	63.112	0.00	0.00
ATOM	3686	H	ALA	X	244	42.338	39.577	62.610	0.00	0.00
ATOM	3687	CA	ALA	X	244	42.940	41.141	63.975	0.00	0.00
ATOM	3688	HA	ALA	X	244	43.487	41.924	63.450	0.00	0.00
ATOM	3689	CB	ALA	X	244	41.488	41.649	64.004	0.00	0.00
ATOM	3690	HB1	ALA	X	244	41.200	41.774	62.960	0.00	0.00
ATOM	3691	HB2	ALA	X	244	40.866	40.840	64.384	0.00	0.00
ATOM	3692	HB3	ALA	X	244	41.393	42.509	64.667	0.00	0.00
ATOM	3693	C	ALA	X	244	43.482	41.102	65.411	0.00	0.00
ATOM	3694	O	ALA	X	244	44.193	42.023	65.871	0.00	0.00
ATOM	3695	N	THR	X	245	43.020	40.068	66.195	0.00	0.00
ATOM	3696	H	THR	X	245	42.306	39.406	65.923	0.00	0.00
ATOM	3697	CA	THR	X	245	43.432	39.818	67.537	0.00	0.00
ATOM	3698	HA	THR	X	245	43.280	40.726	68.120	0.00	0.00
ATOM	3699	CB	THR	X	245	42.608	38.707	68.124	0.00	0.00
ATOM	3700	HB	THR	X	245	42.804	37.774	67.596	0.00	0.00
ATOM	3701	CG2	THR	X	245	43.020	38.450	69.602	0.00	0.00
ATOM	3702	HG21	THR	X	245	42.343	37.726	70.056	0.00	0.00
ATOM	3703	HG22	THR	X	245	44.055	38.118	69.693	0.00	0.00
ATOM	3704	HG23	THR	X	245	42.844	39.367	70.164	0.00	0.00
ATOM	3705	OG1	THR	X	245	41.238	39.006	68.053	0.00	0.00
ATOM	3706	HG1	THR	X	245	40.825	38.298	68.553	0.00	0.00
ATOM	3707	C	THR	X	245	44.890	39.549	67.698	0.00	0.00
ATOM	3708	O	THR	X	245	45.582	40.096	68.602	0.00	0.00

ATOM	3709	N	GLN	X	246	45.474	38.759	66.843	0.00	0.00
ATOM	3710	H	GLN	X	246	44.932	38.224	66.180	0.00	0.00
ATOM	3711	CA	GLN	X	246	46.923	38.435	66.870	0.00	0.00
ATOM	3712	HA	GLN	X	246	47.255	38.053	67.835	0.00	0.00
ATOM	3713	CB	GLN	X	246	47.175	37.228	65.917	0.00	0.00
ATOM	3714	HB2	GLN	X	246	46.632	36.403	66.378	0.00	0.00
ATOM	3715	HB3	GLN	X	246	46.732	37.496	64.958	0.00	0.00
ATOM	3716	CG	GLN	X	246	48.653	36.802	65.913	0.00	0.00
ATOM	3717	HG2	GLN	X	246	49.190	37.361	65.146	0.00	0.00
ATOM	3718	HG3	GLN	X	246	49.208	36.884	66.847	0.00	0.00
ATOM	3719	CD	GLN	X	246	48.960	35.385	65.455	0.00	0.00
ATOM	3720	OE1	GLN	X	246	48.282	34.800	64.651	0.00	0.00
ATOM	3721	NE2	GLN	X	246	49.986	34.769	65.923	0.00	0.00
ATOM	3722	HE21	GLN	X	246	50.317	33.922	65.482	0.00	0.00
ATOM	3723	HE22	GLN	X	246	50.660	35.250	66.502	0.00	0.00
ATOM	3724	C	GLN	X	246	47.869	39.547	66.453	0.00	0.00
ATOM	3725	O	GLN	X	246	48.914	39.818	67.067	0.00	0.00
ATOM	3726	N	LEU	X	247	47.386	40.458	65.534	0.00	0.00
ATOM	3727	H	LEU	X	247	46.472	40.412	65.107	0.00	0.00
ATOM	3728	CA	LEU	X	247	48.237	41.638	65.163	0.00	0.00
ATOM	3729	HA	LEU	X	247	49.231	41.227	64.986	0.00	0.00
ATOM	3730	CB	LEU	X	247	47.814	42.339	63.895	0.00	0.00
ATOM	3731	HB2	LEU	X	247	47.811	41.628	63.069	0.00	0.00
ATOM	3732	HB3	LEU	X	247	46.759	42.611	63.917	0.00	0.00
ATOM	3733	CG	LEU	X	247	48.604	43.574	63.587	0.00	0.00
ATOM	3734	HG	LEU	X	247	48.454	44.245	64.433	0.00	0.00
ATOM	3735	CD1	LEU	X	247	50.079	43.395	63.519	0.00	0.00
ATOM	3736	HD11	LEU	X	247	50.566	43.233	64.481	0.00	0.00
ATOM	3737	HD12	LEU	X	247	50.280	42.633	62.766	0.00	0.00
ATOM	3738	HD13	LEU	X	247	50.585	44.222	63.021	0.00	0.00
ATOM	3739	CD2	LEU	X	247	48.132	44.138	62.260	0.00	0.00
ATOM	3740	HD21	LEU	X	247	47.072	44.390	62.240	0.00	0.00
ATOM	3741	HD22	LEU	X	247	48.713	44.965	61.852	0.00	0.00
ATOM	3742	HD23	LEU	X	247	48.264	43.290	61.588	0.00	0.00
ATOM	3743	C	LEU	X	247	48.234	42.539	66.434	0.00	0.00
ATOM	3744	O	LEU	X	247	49.263	43.054	66.835	0.00	0.00
ATOM	3745	N	ALA	X	248	47.024	42.713	66.960	0.00	0.00
ATOM	3746	H	ALA	X	248	46.254	42.136	66.655	0.00	0.00
ATOM	3747	CA	ALA	X	248	46.847	43.575	68.177	0.00	0.00
ATOM	3748	HA	ALA	X	248	47.170	44.565	67.855	0.00	0.00
ATOM	3749	CB	ALA	X	248	45.411	43.668	68.615	0.00	0.00
ATOM	3750	HB1	ALA	X	248	45.343	44.086	69.619	0.00	0.00
ATOM	3751	HB2	ALA	X	248	44.810	44.281	67.943	0.00	0.00
ATOM	3752	HB3	ALA	X	248	44.962	42.684	68.749	0.00	0.00
ATOM	3753	C	ALA	X	248	47.670	43.216	69.415	0.00	0.00
ATOM	3754	O	ALA	X	248	48.432	44.000	69.947	0.00	0.00
ATOM	3755	N	HIE	X	249	47.692	41.920	69.788	0.00	0.00
ATOM	3756	H	HIE	X	249	46.961	41.361	69.371	0.00	0.00
ATOM	3757	CA	HIE	X	249	48.536	41.228	70.728	0.00	0.00
ATOM	3758	HA	HIE	X	249	48.455	41.751	71.681	0.00	0.00
ATOM	3759	CB	HIE	X	249	48.085	39.749	70.920	0.00	0.00
ATOM	3760	HB2	HIE	X	249	48.077	39.171	69.996	0.00	0.00
ATOM	3761	HB3	HIE	X	249	48.753	39.191	71.576	0.00	0.00
ATOM	3762	CG	HIE	X	249	46.779	39.459	71.572	0.00	0.00
ATOM	3763	ND1	HIE	X	249	46.247	38.209	71.762	0.00	0.00
ATOM	3764	CE1	HIE	X	249	45.028	38.361	72.318	0.00	0.00
ATOM	3765	HE1	HIE	X	249	44.440	37.504	72.612	0.00	0.00
ATOM	3766	NE2	HIE	X	249	44.799	39.631	72.593	0.00	0.00
ATOM	3767	HE2	HIE	X	249	43.903	40.015	72.857	0.00	0.00
ATOM	3768	CD2	HIE	X	249	45.905	40.370	72.226	0.00	0.00
ATOM	3769	HD2	HIE	X	249	46.086	41.434	72.191	0.00	0.00
ATOM	3770	C	HIE	X	249	50.053	41.467	70.581	0.00	0.00
ATOM	3771	O	HIE	X	249	50.737	41.620	71.615	0.00	0.00
ATOM	3772	N	LEU	X	250	50.451	41.595	69.291	0.00	0.00
ATOM	3773	H	LEU	X	250	49.874	41.176	68.575	0.00	0.00
ATOM	3774	CA	LEU	X	250	51.832	41.781	68.870	0.00	0.00
ATOM	3775	HA	LEU	X	250	52.480	41.200	69.526	0.00	0.00
ATOM	3776	CB	LEU	X	250	52.095	41.275	67.435	0.00	0.00
ATOM	3777	HB2	LEU	X	250	51.189	41.520	66.880	0.00	0.00
ATOM	3778	HB3	LEU	X	250	52.945	41.790	66.986	0.00	0.00

ATOM	3779	CG	LEU	X	250	52.260	39.779	67.262	0.00	0.00
ATOM	3780	HG	LEU	X	250	51.473	39.297	67.841	0.00	0.00
ATOM	3781	CD1	LEU	X	250	51.986	39.434	65.802	0.00	0.00
ATOM	3782	HD11	LEU	X	250	52.667	40.011	65.175	0.00	0.00
ATOM	3783	HD12	LEU	X	250	52.020	38.365	65.593	0.00	0.00
ATOM	3784	HD13	LEU	X	250	50.970	39.752	65.568	0.00	0.00
ATOM	3785	CD2	LEU	X	250	53.598	39.218	67.776	0.00	0.00
ATOM	3786	HD21	LEU	X	250	53.481	39.049	68.846	0.00	0.00
ATOM	3787	HD22	LEU	X	250	53.610	38.233	67.309	0.00	0.00
ATOM	3788	HD23	LEU	X	250	54.464	39.767	67.406	0.00	0.00
ATOM	3789	C	LEU	X	250	52.165	43.263	69.015	0.00	0.00
ATOM	3790	O	LEU	X	250	53.174	43.629	69.628	0.00	0.00
ATOM	3791	N	VAL	X	251	51.345	44.192	68.511	0.00	0.00
ATOM	3792	H	VAL	X	251	50.592	43.820	67.951	0.00	0.00
ATOM	3793	CA	VAL	X	251	51.584	45.612	68.690	0.00	0.00
ATOM	3794	HA	VAL	X	251	52.619	45.856	68.452	0.00	0.00
ATOM	3795	CB	VAL	X	251	50.720	46.499	67.693	0.00	0.00
ATOM	3796	HB	VAL	X	251	50.724	46.017	66.715	0.00	0.00
ATOM	3797	CG1	VAL	X	251	49.199	46.730	68.022	0.00	0.00
ATOM	3798	HG11	VAL	X	251	49.115	47.109	69.041	0.00	0.00
ATOM	3799	HG12	VAL	X	251	48.678	47.321	67.269	0.00	0.00
ATOM	3800	HG13	VAL	X	251	48.827	45.712	68.132	0.00	0.00
ATOM	3801	CG2	VAL	X	251	51.238	47.899	67.418	0.00	0.00
ATOM	3802	HG21	VAL	X	251	50.962	48.081	66.379	0.00	0.00
ATOM	3803	HG22	VAL	X	251	50.647	48.654	67.937	0.00	0.00
ATOM	3804	HG23	VAL	X	251	52.279	48.187	67.560	0.00	0.00
ATOM	3805	C	VAL	X	251	51.520	46.055	70.166	0.00	0.00
ATOM	3806	O	VAL	X	251	52.178	47.055	70.599	0.00	0.00
ATOM	3807	N	GLY	X	252	50.767	45.277	70.957	0.00	0.00
ATOM	3808	H	GLY	X	252	50.217	44.580	70.476	0.00	0.00
ATOM	3809	CA	GLY	X	252	50.573	45.467	72.399	0.00	0.00
ATOM	3810	HA2	GLY	X	252	50.579	44.448	72.749	0.00	0.00
ATOM	3811	HA3	GLY	X	252	51.408	46.012	72.874	0.00	0.00
ATOM	3812	C	GLY	X	252	49.243	46.098	72.879	0.00	0.00
ATOM	3813	O	GLY	X	252	49.052	46.310	74.080	0.00	0.00
ATOM	3814	N	CYX	X	253	48.264	46.292	71.942	0.00	0.00
ATOM	3815	H	CYX	X	253	48.520	46.011	71.006	0.00	0.00
ATOM	3816	CA	CYX	X	253	46.864	46.571	72.195	0.00	0.00
ATOM	3817	HA	CYX	X	253	46.838	47.457	72.829	0.00	0.00
ATOM	3818	CB	CYX	X	253	46.227	46.949	70.825	0.00	0.00
ATOM	3819	HB2	CYX	X	253	46.390	46.132	70.121	0.00	0.00
ATOM	3820	HB3	CYX	X	253	45.200	47.172	71.114	0.00	0.00
ATOM	3821	SG	CYX	X	253	47.066	48.512	70.225	0.00	0.00
ATOM	3822	C	CYX	X	253	46.116	45.417	72.919	0.00	0.00
ATOM	3823	O	CYX	X	253	46.551	44.212	72.691	0.00	0.00
ATOM	3824	N	PRO	X	254	44.966	45.639	73.596	0.00	0.00
ATOM	3825	CD	PRO	X	254	44.109	44.586	74.111	0.00	0.00
ATOM	3826	HD2	PRO	X	254	44.533	43.806	74.744	0.00	0.00
ATOM	3827	HD3	PRO	X	254	43.673	44.076	73.252	0.00	0.00
ATOM	3828	CG	PRO	X	254	42.956	45.256	74.754	0.00	0.00
ATOM	3829	HG2	PRO	X	254	42.811	45.014	75.807	0.00	0.00
ATOM	3830	HG3	PRO	X	254	42.103	45.096	74.095	0.00	0.00
ATOM	3831	CB	PRO	X	254	43.230	46.768	74.579	0.00	0.00
ATOM	3832	HB2	PRO	X	254	43.103	47.365	75.482	0.00	0.00
ATOM	3833	HB3	PRO	X	254	42.499	47.077	73.832	0.00	0.00
ATOM	3834	CA	PRO	X	254	44.593	46.935	74.013	0.00	0.00
ATOM	3835	HA	PRO	X	254	44.428	47.562	73.137	0.00	0.00
ATOM	3836	C	PRO	X	254	45.561	47.588	75.068	0.00	0.00
ATOM	3837	O	PRO	X	254	46.437	46.840	75.615	0.00	0.00
ATOM	3838	N	PRO	X	255	45.308	48.880	75.404	0.00	0.00
ATOM	3839	CD	PRO	X	255	44.406	49.762	74.793	0.00	0.00
ATOM	3840	HD2	PRO	X	255	43.403	49.385	74.992	0.00	0.00
ATOM	3841	HD3	PRO	X	255	44.652	49.784	73.731	0.00	0.00
ATOM	3842	CG	PRO	X	255	44.651	51.233	75.246	0.00	0.00
ATOM	3843	HG2	PRO	X	255	43.696	51.754	75.178	0.00	0.00
ATOM	3844	HG3	PRO	X	255	45.503	51.640	74.703	0.00	0.00
ATOM	3845	CB	PRO	X	255	45.059	51.006	76.738	0.00	0.00
ATOM	3846	HB2	PRO	X	255	44.227	50.935	77.438	0.00	0.00
ATOM	3847	HB3	PRO	X	255	45.706	51.794	77.123	0.00	0.00
ATOM	3848	CA	PRO	X	255	45.854	49.646	76.604	0.00	0.00

ATOM	3849	HA	PRO	X	255	46.820	50.068	76.329	0.00	0.00
ATOM	3850	C	PRO	X	255	46.032	48.886	77.919	0.00	0.00
ATOM	3851	O	PRO	X	255	45.275	47.992	78.254	0.00	0.00
ATOM	3852	N	GLY	X	256	47.023	49.344	78.645	0.00	0.00
ATOM	3853	H	GLY	X	256	47.680	49.998	78.244	0.00	0.00
ATOM	3854	CA	GLY	X	256	47.499	48.618	79.797	0.00	0.00
ATOM	3855	HA2	GLY	X	256	47.580	47.595	79.661	0.00	0.00
ATOM	3856	HA3	GLY	X	256	48.571	48.960	80.010	0.00	0.00
ATOM	3857	C	GLY	X	256	46.649	48.846	81.167	0.00	0.00
ATOM	3858	O	GLY	X	256	47.240	48.949	82.259	0.00	0.00
ATOM	3859	N	GLY	X	257	45.317	48.929	81.078	0.00	0.00
ATOM	3860	H	GLY	X	257	44.801	48.927	80.210	0.00	0.00
ATOM	3861	CA	GLY	X	257	44.514	48.797	82.232	0.00	0.00
ATOM	3862	HA2	GLY	X	257	45.077	48.873	83.122	0.00	0.00
ATOM	3863	HA3	GLY	X	257	43.759	49.544	82.231	0.00	0.00
ATOM	3864	C	GLY	X	257	43.905	47.413	82.247	0.00	0.00
ATOM	3865	O	GLY	X	257	44.187	46.525	81.392	0.00	0.00
ATOM	3866	N	THR	X	258	42.944	47.222	83.141	0.00	0.00
ATOM	3867	H	THR	X	258	42.916	47.850	83.931	0.00	0.00
ATOM	3868	CA	THR	X	258	41.963	46.063	83.057	0.00	0.00
ATOM	3869	HA	THR	X	258	42.527	45.165	82.804	0.00	0.00
ATOM	3870	CB	THR	X	258	41.245	45.854	84.389	0.00	0.00
ATOM	3871	HB	THR	X	258	40.440	45.153	84.164	0.00	0.00
ATOM	3872	CG2	THR	X	258	42.298	45.279	85.328	0.00	0.00
ATOM	3873	HG21	THR	X	258	43.075	46.035	85.437	0.00	0.00
ATOM	3874	HG22	THR	X	258	41.798	45.270	86.297	0.00	0.00
ATOM	3875	HG23	THR	X	258	42.627	44.302	84.974	0.00	0.00
ATOM	3876	OG1	THR	X	258	40.785	47.148	84.754	0.00	0.00
ATOM	3877	HG1	THR	X	258	40.577	47.249	85.686	0.00	0.00
ATOM	3878	C	THR	X	258	41.057	46.175	81.859	0.00	0.00
ATOM	3879	O	THR	X	258	40.995	47.309	81.281	0.00	0.00
ATOM	3880	N	GLY	X	259	40.431	45.028	81.439	0.00	0.00
ATOM	3881	H	GLY	X	259	40.491	44.216	82.036	0.00	0.00
ATOM	3882	CA	GLY	X	259	39.440	45.032	80.335	0.00	0.00
ATOM	3883	HA2	GLY	X	259	38.798	44.177	80.599	0.00	0.00
ATOM	3884	HA3	GLY	X	259	38.789	45.868	80.320	0.00	0.00
ATOM	3885	C	GLY	X	259	39.961	44.869	78.922	0.00	0.00
ATOM	3886	O	GLY	X	259	41.055	45.375	78.630	0.00	0.00
ATOM	3887	N	GLY	X	260	39.113	44.183	78.150	0.00	0.00
ATOM	3888	H	GLY	X	260	38.359	43.701	78.619	0.00	0.00
ATOM	3889	CA	GLY	X	260	39.393	43.994	76.725	0.00	0.00
ATOM	3890	HA2	GLY	X	260	40.289	44.549	76.503	0.00	0.00
ATOM	3891	HA3	GLY	X	260	39.484	42.886	76.555	0.00	0.00
ATOM	3892	C	GLY	X	260	38.217	44.560	75.738	0.00	0.00
ATOM	3893	O	GLY	X	260	37.615	43.786	74.971	0.00	0.00
ATOM	3894	N	ASN	X	261	37.923	45.846	75.838	0.00	0.00
ATOM	3895	H	ASN	X	261	38.501	46.482	76.368	0.00	0.00
ATOM	3896	CA	ASN	X	261	36.823	46.402	75.023	0.00	0.00
ATOM	3897	HA	ASN	X	261	36.011	45.676	75.066	0.00	0.00
ATOM	3898	CB	ASN	X	261	36.348	47.695	75.712	0.00	0.00
ATOM	3899	HB2	ASN	X	261	35.811	47.433	76.623	0.00	0.00
ATOM	3900	HB3	ASN	X	261	37.196	48.314	76.004	0.00	0.00
ATOM	3901	CG	ASN	X	261	35.412	48.414	74.722	0.00	0.00
ATOM	3902	OD1	ASN	X	261	35.810	49.047	73.766	0.00	0.00
ATOM	3903	ND2	ASN	X	261	34.121	48.534	75.072	0.00	0.00
ATOM	3904	HD21	ASN	X	261	33.541	49.077	74.449	0.00	0.00
ATOM	3905	HD22	ASN	X	261	33.815	48.193	75.972	0.00	0.00
ATOM	3906	C	ASN	X	261	37.366	46.612	73.583	0.00	0.00
ATOM	3907	O	ASN	X	261	38.351	47.337	73.374	0.00	0.00
ATOM	3908	N	ASP	X	262	36.586	46.036	72.650	0.00	0.00
ATOM	3909	H	ASP	X	262	35.912	45.391	73.036	0.00	0.00
ATOM	3910	CA	ASP	X	262	36.698	46.068	71.177	0.00	0.00
ATOM	3911	HA	ASP	X	262	37.589	45.448	71.076	0.00	0.00
ATOM	3912	CB	ASP	X	262	35.512	45.299	70.527	0.00	0.00
ATOM	3913	HB2	ASP	X	262	35.763	45.238	69.469	0.00	0.00
ATOM	3914	HB3	ASP	X	262	35.378	44.327	71.002	0.00	0.00
ATOM	3915	CG	ASP	X	262	34.098	45.934	70.643	0.00	0.00
ATOM	3916	OD1	ASP	X	262	33.847	46.687	71.593	0.00	0.00
ATOM	3917	OD2	ASP	X	262	33.203	45.585	69.830	0.00	0.00
ATOM	3918	C	ASP	X	262	36.987	47.422	70.594	0.00	0.00

ATOM	3919	O	ASP	X	262	37.968	47.550	69.846	0.00	0.00
ATOM	3920	N	THR	X	263	36.211	48.513	70.874	0.00	0.00
ATOM	3921	H	THR	X	263	35.493	48.316	71.556	0.00	0.00
ATOM	3922	CA	THR	X	263	36.422	49.867	70.451	0.00	0.00
ATOM	3923	HA	THR	X	263	36.428	49.951	69.364	0.00	0.00
ATOM	3924	CB	THR	X	263	35.373	50.881	70.909	0.00	0.00
ATOM	3925	HB	THR	X	263	35.376	51.103	71.976	0.00	0.00
ATOM	3926	CG2	THR	X	263	35.412	52.216	70.047	0.00	0.00
ATOM	3927	HG21	THR	X	263	36.370	52.735	70.096	0.00	0.00
ATOM	3928	HG22	THR	X	263	35.376	51.788	69.045	0.00	0.00
ATOM	3929	HG23	THR	X	263	34.535	52.860	70.111	0.00	0.00
ATOM	3930	OG1	THR	X	263	34.040	50.468	70.580	0.00	0.00
ATOM	3931	HG1	THR	X	263	34.036	50.138	69.679	0.00	0.00
ATOM	3932	C	THR	X	263	37.823	50.447	70.902	0.00	0.00
ATOM	3933	O	THR	X	263	38.607	51.000	70.095	0.00	0.00
ATOM	3934	N	GLU	X	264	38.132	50.277	72.199	0.00	0.00
ATOM	3935	H	GLU	X	264	37.483	49.738	72.756	0.00	0.00
ATOM	3936	CA	GLU	X	264	39.411	50.608	72.736	0.00	0.00
ATOM	3937	HA	GLU	X	264	39.482	51.678	72.542	0.00	0.00
ATOM	3938	CB	GLU	X	264	39.363	50.432	74.233	0.00	0.00
ATOM	3939	HB2	GLU	X	264	38.455	50.869	74.647	0.00	0.00
ATOM	3940	HB3	GLU	X	264	39.496	49.388	74.519	0.00	0.00
ATOM	3941	CG	GLU	X	264	40.509	51.241	74.851	0.00	0.00
ATOM	3942	HG2	GLU	X	264	41.484	50.758	74.785	0.00	0.00
ATOM	3943	HG3	GLU	X	264	40.544	52.165	74.272	0.00	0.00
ATOM	3944	CD	GLU	X	264	40.285	51.530	76.312	0.00	0.00
ATOM	3945	OE1	GLU	X	264	39.958	50.521	76.990	0.00	0.00
ATOM	3946	OE2	GLU	X	264	40.378	52.697	76.804	0.00	0.00
ATOM	3947	C	GLU	X	264	40.604	49.891	72.068	0.00	0.00
ATOM	3948	O	GLU	X	264	41.605	50.455	71.656	0.00	0.00
ATOM	3949	N	LEU	X	265	40.408	48.560	71.819	0.00	0.00
ATOM	3950	H	LEU	X	265	39.645	48.059	72.252	0.00	0.00
ATOM	3951	CA	LEU	X	265	41.378	47.785	71.046	0.00	0.00
ATOM	3952	HA	LEU	X	265	42.370	47.854	71.492	0.00	0.00
ATOM	3953	CB	LEU	X	265	40.856	46.283	71.011	0.00	0.00
ATOM	3954	HB2	LEU	X	265	40.895	45.812	71.994	0.00	0.00
ATOM	3955	HB3	LEU	X	265	39.811	46.323	70.706	0.00	0.00
ATOM	3956	CG	LEU	X	265	41.561	45.402	69.926	0.00	0.00
ATOM	3957	HG	LEU	X	265	41.929	45.967	69.069	0.00	0.00
ATOM	3958	CD1	LEU	X	265	42.716	44.711	70.659	0.00	0.00
ATOM	3959	HD11	LEU	X	265	43.490	45.475	70.732	0.00	0.00
ATOM	3960	HD12	LEU	X	265	42.359	44.477	71.662	0.00	0.00
ATOM	3961	HD13	LEU	X	265	43.155	43.810	70.230	0.00	0.00
ATOM	3962	CD2	LEU	X	265	40.676	44.261	69.427	0.00	0.00
ATOM	3963	HD21	LEU	X	265	40.053	43.742	70.156	0.00	0.00
ATOM	3964	HD22	LEU	X	265	39.994	44.572	68.636	0.00	0.00
ATOM	3965	HD23	LEU	X	265	41.340	43.551	68.935	0.00	0.00
ATOM	3966	C	LEU	X	265	41.663	48.271	69.568	0.00	0.00
ATOM	3967	O	LEU	X	265	42.790	48.469	69.184	0.00	0.00
ATOM	3968	N	VAL	X	266	40.560	48.614	68.848	0.00	0.00
ATOM	3969	H	VAL	X	266	39.716	48.275	69.286	0.00	0.00
ATOM	3970	CA	VAL	X	266	40.526	49.308	67.557	0.00	0.00
ATOM	3971	HA	VAL	X	266	41.212	48.706	66.961	0.00	0.00
ATOM	3972	CB	VAL	X	266	39.100	49.172	66.873	0.00	0.00
ATOM	3973	HB	VAL	X	266	38.317	49.446	67.580	0.00	0.00
ATOM	3974	CG1	VAL	X	266	38.973	50.029	65.623	0.00	0.00
ATOM	3975	HG11	VAL	X	266	38.974	51.067	65.956	0.00	0.00
ATOM	3976	HG12	VAL	X	266	39.777	49.743	64.944	0.00	0.00
ATOM	3977	HG13	VAL	X	266	38.099	49.771	65.024	0.00	0.00
ATOM	3978	CG2	VAL	X	266	38.927	47.660	66.524	0.00	0.00
ATOM	3979	HG21	VAL	X	266	39.082	47.043	67.410	0.00	0.00
ATOM	3980	HG22	VAL	X	266	37.947	47.416	66.114	0.00	0.00
ATOM	3981	HG23	VAL	X	266	39.662	47.302	65.804	0.00	0.00
ATOM	3982	C	VAL	X	266	40.991	50.803	67.530	0.00	0.00
ATOM	3983	O	VAL	X	266	41.478	51.201	66.434	0.00	0.00
ATOM	3984	N	ALA	X	267	40.928	51.512	68.653	0.00	0.00
ATOM	3985	H	ALA	X	267	40.605	51.143	69.536	0.00	0.00
ATOM	3986	CA	ALA	X	267	41.535	52.868	68.739	0.00	0.00
ATOM	3987	HA	ALA	X	267	41.507	53.448	67.817	0.00	0.00
ATOM	3988	CB	ALA	X	267	40.954	53.623	69.910	0.00	0.00

ATOM	3989	HB1	ALA	X	267	41.374	54.589	70.189	0.00	0.00
ATOM	3990	HB2	ALA	X	267	39.873	53.672	69.774	0.00	0.00
ATOM	3991	HB3	ALA	X	267	41.111	53.006	70.794	0.00	0.00
ATOM	3992	C	ALA	X	267	43.044	52.848	68.928	0.00	0.00
ATOM	3993	O	ALA	X	267	43.859	53.405	68.130	0.00	0.00
ATOM	3994	N	CYX	X	268	43.511	52.034	69.881	0.00	0.00
ATOM	3995	H	CYX	X	268	42.843	51.536	70.453	0.00	0.00
ATOM	3996	CA	CYX	X	268	44.880	51.613	70.026	0.00	0.00
ATOM	3997	HA	CYX	X	268	45.556	52.396	70.371	0.00	0.00
ATOM	3998	CB	CYX	X	268	44.962	50.480	71.131	0.00	0.00
ATOM	3999	HB2	CYX	X	268	44.263	50.741	71.926	0.00	0.00
ATOM	4000	HB3	CYX	X	268	44.501	49.573	70.740	0.00	0.00
ATOM	4001	SG	CYX	X	268	46.586	49.992	71.697	0.00	0.00
ATOM	4002	C	CYX	X	268	45.523	51.232	68.689	0.00	0.00
ATOM	4003	O	CYX	X	268	46.597	51.716	68.327	0.00	0.00
ATOM	4004	N	LEU	X	269	44.913	50.363	67.891	0.00	0.00
ATOM	4005	H	LEU	X	269	44.086	49.875	68.205	0.00	0.00
ATOM	4006	CA	LEU	X	269	45.374	49.873	66.611	0.00	0.00
ATOM	4007	HA	LEU	X	269	46.358	49.458	66.830	0.00	0.00
ATOM	4008	CB	LEU	X	269	44.457	48.729	66.161	0.00	0.00
ATOM	4009	HB2	LEU	X	269	44.064	48.262	67.064	0.00	0.00
ATOM	4010	HB3	LEU	X	269	43.525	49.085	65.720	0.00	0.00
ATOM	4011	CG	LEU	X	269	45.089	47.719	65.241	0.00	0.00
ATOM	4012	HG	LEU	X	269	45.544	48.161	64.355	0.00	0.00
ATOM	4013	CD1	LEU	X	269	46.111	46.827	65.948	0.00	0.00
ATOM	4014	HD11	LEU	X	269	47.071	47.265	66.221	0.00	0.00
ATOM	4015	HD12	LEU	X	269	45.769	46.537	66.941	0.00	0.00
ATOM	4016	HD13	LEU	X	269	46.336	45.957	65.331	0.00	0.00
ATOM	4017	CD2	LEU	X	269	43.911	46.762	64.882	0.00	0.00
ATOM	4018	HD21	LEU	X	269	43.705	46.008	65.642	0.00	0.00
ATOM	4019	HD22	LEU	X	269	42.976	47.266	64.636	0.00	0.00
ATOM	4020	HD23	LEU	X	269	44.221	46.195	64.004	0.00	0.00
ATOM	4021	C	LEU	X	269	45.594	50.944	65.597	0.00	0.00
ATOM	4022	O	LEU	X	269	46.249	50.764	64.582	0.00	0.00
ATOM	4023	N	ARG	X	270	44.962	52.145	65.835	0.00	0.00
ATOM	4024	H	ARG	X	270	44.374	52.209	66.653	0.00	0.00
ATOM	4025	CA	ARG	X	270	45.054	53.354	64.902	0.00	0.00
ATOM	4026	HA	ARG	X	270	45.441	53.128	63.908	0.00	0.00
ATOM	4027	CB	ARG	X	270	43.647	53.873	64.755	0.00	0.00
ATOM	4028	HB2	ARG	X	270	43.149	54.064	65.706	0.00	0.00
ATOM	4029	HB3	ARG	X	270	43.706	54.808	64.199	0.00	0.00
ATOM	4030	CG	ARG	X	270	42.642	52.886	64.081	0.00	0.00
ATOM	4031	HG2	ARG	X	270	43.039	52.417	63.181	0.00	0.00
ATOM	4032	HG3	ARG	X	270	42.816	51.925	64.564	0.00	0.00
ATOM	4033	CD	ARG	X	270	41.190	53.335	63.726	0.00	0.00
ATOM	4034	HD2	ARG	X	270	41.266	54.171	63.030	0.00	0.00
ATOM	4035	HD3	ARG	X	270	40.816	52.430	63.247	0.00	0.00
ATOM	4036	NE	ARG	X	270	40.452	53.749	64.875	0.00	0.00
ATOM	4037	HE	ARG	X	270	41.057	54.223	65.530	0.00	0.00
ATOM	4038	CZ	ARG	X	270	39.192	53.849	65.155	0.00	0.00
ATOM	4039	NH1	ARG	X	270	38.188	53.454	64.393	0.00	0.00
ATOM	4040	HH11	ARG	X	270	38.389	53.039	63.495	0.00	0.00
ATOM	4041	HH12	ARG	X	270	37.269	53.402	64.809	0.00	0.00
ATOM	4042	NH2	ARG	X	270	38.895	54.443	66.283	0.00	0.00
ATOM	4043	HH21	ARG	X	270	39.576	54.849	66.908	0.00	0.00
ATOM	4044	HH22	ARG	X	270	37.941	54.468	66.614	0.00	0.00
ATOM	4045	C	ARG	X	270	45.932	54.470	65.325	0.00	0.00
ATOM	4046	O	ARG	X	270	46.558	55.079	64.482	0.00	0.00
ATOM	4047	N	THR	X	271	45.968	54.715	66.629	0.00	0.00
ATOM	4048	H	THR	X	271	45.288	54.278	67.234	0.00	0.00
ATOM	4049	CA	THR	X	271	46.814	55.708	67.237	0.00	0.00
ATOM	4050	HA	THR	X	271	46.645	56.683	66.779	0.00	0.00
ATOM	4051	CB	THR	X	271	46.531	55.827	68.749	0.00	0.00
ATOM	4052	HB	THR	X	271	47.229	56.512	69.231	0.00	0.00
ATOM	4053	CG2	THR	X	271	45.104	56.396	69.061	0.00	0.00
ATOM	4054	HG21	THR	X	271	44.956	57.290	68.456	0.00	0.00
ATOM	4055	HG22	THR	X	271	44.310	55.672	68.880	0.00	0.00
ATOM	4056	HG23	THR	X	271	45.104	56.525	70.144	0.00	0.00
ATOM	4057	OG1	THR	X	271	46.706	54.543	69.383	0.00	0.00
ATOM	4058	HG1	THR	X	271	46.866	54.736	70.310	0.00	0.00

ATOM	4059	C	THR	X	271	48.291	55.301	67.049	0.00	0.00
ATOM	4060	O	THR	X	271	49.125	56.269	66.987	0.00	0.00
ATOM	4061	N	ARG	X	272	48.672	54.045	66.974	0.00	0.00
ATOM	4062	H	ARG	X	272	47.909	53.409	67.159	0.00	0.00
ATOM	4063	CA	ARG	X	272	50.025	53.490	66.784	0.00	0.00
ATOM	4064	HA	ARG	X	272	50.696	54.000	67.475	0.00	0.00
ATOM	4065	CB	ARG	X	272	50.156	52.066	67.073	0.00	0.00
ATOM	4066	HB2	ARG	X	272	49.447	51.508	66.463	0.00	0.00
ATOM	4067	HB3	ARG	X	272	51.169	51.766	66.805	0.00	0.00
ATOM	4068	CG	ARG	X	272	50.031	51.844	68.616	0.00	0.00
ATOM	4069	HG2	ARG	X	272	49.193	52.358	69.086	0.00	0.00
ATOM	4070	HG3	ARG	X	272	50.005	50.781	68.858	0.00	0.00
ATOM	4071	CD	ARG	X	272	51.259	52.271	69.462	0.00	0.00
ATOM	4072	HD2	ARG	X	272	52.019	51.550	69.163	0.00	0.00
ATOM	4073	HD3	ARG	X	272	51.487	53.312	69.231	0.00	0.00
ATOM	4074	NE	ARG	X	272	51.000	52.186	70.916	0.00	0.00
ATOM	4075	HE	ARG	X	272	50.676	53.036	71.354	0.00	0.00
ATOM	4076	CZ	ARG	X	272	50.904	51.066	71.616	0.00	0.00
ATOM	4077	NH1	ARG	X	272	51.609	50.027	71.292	0.00	0.00
ATOM	4078	HH11	ARG	X	272	52.219	50.027	70.487	0.00	0.00
ATOM	4079	HH12	ARG	X	272	51.634	49.250	71.938	0.00	0.00
ATOM	4080	NH2	ARG	X	272	50.238	51.046	72.706	0.00	0.00
ATOM	4081	HH21	ARG	X	272	49.621	51.805	72.955	0.00	0.00
ATOM	4082	HH22	ARG	X	272	50.339	50.194	73.239	0.00	0.00
ATOM	4083	C	ARG	X	272	50.480	53.760	65.317	0.00	0.00
ATOM	4084	O	ARG	X	272	49.628	53.621	64.377	0.00	0.00
ATOM	4085	N	PRO	X	273	51.769	54.079	65.141	0.00	0.00
ATOM	4086	CD	PRO	X	273	52.910	53.852	66.004	0.00	0.00
ATOM	4087	HD2	PRO	X	273	53.267	52.823	65.975	0.00	0.00
ATOM	4088	HD3	PRO	X	273	52.686	54.028	67.056	0.00	0.00
ATOM	4089	CG	PRO	X	273	53.922	54.913	65.521	0.00	0.00
ATOM	4090	HG2	PRO	X	273	54.934	54.554	65.708	0.00	0.00
ATOM	4091	HG3	PRO	X	273	53.685	55.885	65.954	0.00	0.00
ATOM	4092	CB	PRO	X	273	53.655	54.987	64.008	0.00	0.00
ATOM	4093	HB2	PRO	X	273	54.417	54.383	63.513	0.00	0.00
ATOM	4094	HB3	PRO	X	273	53.775	56.032	63.724	0.00	0.00
ATOM	4095	CA	PRO	X	273	52.259	54.364	63.823	0.00	0.00
ATOM	4096	HA	PRO	X	273	51.623	55.165	63.446	0.00	0.00
ATOM	4097	C	PRO	X	273	52.210	53.184	62.875	0.00	0.00
ATOM	4098	O	PRO	X	273	52.335	52.006	63.230	0.00	0.00
ATOM	4099	N	ALA	X	274	52.107	53.559	61.574	0.00	0.00
ATOM	4100	H	ALA	X	274	51.897	54.525	61.370	0.00	0.00
ATOM	4101	CA	ALA	X	274	51.794	52.639	60.461	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.834	52.141	60.598	0.00	0.00
ATOM	4103	CB	ALA	X	274	51.674	53.456	59.186	0.00	0.00
ATOM	4104	HB1	ALA	X	274	52.593	53.924	58.832	0.00	0.00
ATOM	4105	HB2	ALA	X	274	51.253	52.744	58.476	0.00	0.00
ATOM	4106	HB3	ALA	X	274	50.819	54.130	59.246	0.00	0.00
ATOM	4107	C	ALA	X	274	53.010	51.662	60.269	0.00	0.00
ATOM	4108	O	ALA	X	274	52.843	50.445	60.177	0.00	0.00
ATOM	4109	N	GLN	X	275	54.195	52.169	60.298	0.00	0.00
ATOM	4110	H	GLN	X	275	54.284	53.175	60.317	0.00	0.00
ATOM	4111	CA	GLN	X	275	55.459	51.391	60.124	0.00	0.00
ATOM	4112	HA	GLN	X	275	55.538	50.834	59.191	0.00	0.00
ATOM	4113	CB	GLN	X	275	56.774	52.277	60.090	0.00	0.00
ATOM	4114	HB2	GLN	X	275	56.689	52.991	59.270	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.993	52.908	60.951	0.00	0.00
ATOM	4116	CG	GLN	X	275	57.994	51.399	59.702	0.00	0.00
ATOM	4117	HG2	GLN	X	275	58.808	52.121	59.774	0.00	0.00
ATOM	4118	HG3	GLN	X	275	58.195	50.629	60.447	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.819	50.796	58.256	0.00	0.00
ATOM	4120	OE1	GLN	X	275	57.812	51.507	57.288	0.00	0.00
ATOM	4121	NE2	GLN	X	275	57.581	49.466	58.123	0.00	0.00
ATOM	4122	HE21	GLN	X	275	57.458	49.225	57.149	0.00	0.00
ATOM	4123	HE22	GLN	X	275	57.720	48.820	58.886	0.00	0.00
ATOM	4124	C	GLN	X	275	55.695	50.283	61.212	0.00	0.00
ATOM	4125	O	GLN	X	275	55.884	49.089	60.942	0.00	0.00
ATOM	4126	N	VAL	X	276	55.592	50.725	62.495	0.00	0.00
ATOM	4127	H	VAL	X	276	55.333	51.692	62.626	0.00	0.00
ATOM	4128	CA	VAL	X	276	55.599	49.898	63.703	0.00	0.00

ATOM	4129	HA	VAL	X	276	56.587	49.462	63.854	0.00	0.00
ATOM	4130	CB	VAL	X	276	55.286	50.718	64.981	0.00	0.00
ATOM	4131	HB	VAL	X	276	54.322	51.186	64.780	0.00	0.00
ATOM	4132	CG1	VAL	X	276	55.013	50.000	66.281	0.00	0.00
ATOM	4133	HG11	VAL	X	276	54.219	49.273	66.112	0.00	0.00
ATOM	4134	HG12	VAL	X	276	55.886	49.477	66.672	0.00	0.00
ATOM	4135	HG13	VAL	X	276	54.692	50.799	66.949	0.00	0.00
ATOM	4136	CG2	VAL	X	276	56.343	51.758	65.195	0.00	0.00
ATOM	4137	HG21	VAL	X	276	55.978	52.434	65.967	0.00	0.00
ATOM	4138	HG22	VAL	X	276	57.255	51.258	65.521	0.00	0.00
ATOM	4139	HG23	VAL	X	276	56.520	52.319	64.277	0.00	0.00
ATOM	4140	C	VAL	X	276	54.566	48.705	63.648	0.00	0.00
ATOM	4141	O	VAL	X	276	54.830	47.649	64.134	0.00	0.00
ATOM	4142	N	LEU	X	277	53.335	48.982	63.073	0.00	0.00
ATOM	4143	H	LEU	X	277	53.219	49.897	62.660	0.00	0.00
ATOM	4144	CA	LEU	X	277	52.321	47.991	62.806	0.00	0.00
ATOM	4145	HA	LEU	X	277	52.230	47.348	63.681	0.00	0.00
ATOM	4146	CB	LEU	X	277	50.949	48.712	62.532	0.00	0.00
ATOM	4147	HB2	LEU	X	277	50.829	49.421	63.351	0.00	0.00
ATOM	4148	HB3	LEU	X	277	51.062	49.226	61.578	0.00	0.00
ATOM	4149	CG	LEU	X	277	49.673	47.842	62.487	0.00	0.00
ATOM	4150	HG	LEU	X	277	49.862	46.991	61.834	0.00	0.00
ATOM	4151	CD1	LEU	X	277	49.313	47.482	63.951	0.00	0.00
ATOM	4152	HD11	LEU	X	277	49.249	48.308	64.660	0.00	0.00
ATOM	4153	HD12	LEU	X	277	48.379	46.924	63.900	0.00	0.00
ATOM	4154	HD13	LEU	X	277	49.983	46.686	64.277	0.00	0.00
ATOM	4155	CD2	LEU	X	277	48.398	48.623	61.960	0.00	0.00
ATOM	4156	HD21	LEU	X	277	47.556	47.931	61.948	0.00	0.00
ATOM	4157	HD22	LEU	X	277	48.269	49.533	62.546	0.00	0.00
ATOM	4158	HD23	LEU	X	277	48.496	49.026	60.953	0.00	0.00
ATOM	4159	C	LEU	X	277	52.785	47.027	61.644	0.00	0.00
ATOM	4160	O	LEU	X	277	52.727	45.754	61.797	0.00	0.00
ATOM	4161	N	VAL	X	278	53.375	47.584	60.592	0.00	0.00
ATOM	4162	H	VAL	X	278	53.331	48.588	60.491	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.926	46.783	59.548	0.00	0.00
ATOM	4164	HA	VAL	X	278	53.170	46.100	59.162	0.00	0.00
ATOM	4165	CB	VAL	X	278	54.224	47.695	58.290	0.00	0.00
ATOM	4166	HB	VAL	X	278	54.824	48.528	58.656	0.00	0.00
ATOM	4167	CG1	VAL	X	278	54.926	46.825	57.191	0.00	0.00
ATOM	4168	HG11	VAL	X	278	54.398	45.965	56.778	0.00	0.00
ATOM	4169	HG12	VAL	X	278	54.978	47.370	56.248	0.00	0.00
ATOM	4170	HG13	VAL	X	278	55.937	46.584	57.518	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.938	48.227	57.722	0.00	0.00
ATOM	4172	HG21	VAL	X	278	52.410	48.807	58.479	0.00	0.00
ATOM	4173	HG22	VAL	X	278	53.035	48.655	56.724	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.334	47.335	57.555	0.00	0.00
ATOM	4175	C	VAL	X	278	55.028	45.759	59.871	0.00	0.00
ATOM	4176	O	VAL	X	278	54.900	44.583	59.530	0.00	0.00
ATOM	4177	N	ASN	X	279	55.955	46.189	60.775	0.00	0.00
ATOM	4178	H	ASN	X	279	55.907	47.170	61.011	0.00	0.00
ATOM	4179	CA	ASN	X	279	57.094	45.310	61.254	0.00	0.00
ATOM	4180	HA	ASN	X	279	57.685	44.955	60.410	0.00	0.00
ATOM	4181	CB	ASN	X	279	57.987	46.155	62.148	0.00	0.00
ATOM	4182	HB2	ASN	X	279	57.505	47.008	62.627	0.00	0.00
ATOM	4183	HB3	ASN	X	279	58.582	45.623	62.891	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.075	46.820	61.423	0.00	0.00
ATOM	4185	OD1	ASN	X	279	58.899	47.456	60.342	0.00	0.00
ATOM	4186	ND2	ASN	X	279	60.331	46.713	61.868	0.00	0.00
ATOM	4187	HD21	ASN	X	279	60.966	47.278	61.323	0.00	0.00
ATOM	4188	HD22	ASN	X	279	60.421	46.479	62.846	0.00	0.00
ATOM	4189	C	ASN	X	279	56.613	43.978	61.897	0.00	0.00
ATOM	4190	O	ASN	X	279	57.395	43.051	61.947	0.00	0.00
ATOM	4191	N	HIE	X	280	55.346	43.868	62.223	0.00	0.00
ATOM	4192	H	HIE	X	280	54.781	44.694	62.089	0.00	0.00
ATOM	4193	CA	HIE	X	280	54.733	42.590	62.612	0.00	0.00
ATOM	4194	HA	HIE	X	280	55.512	41.942	63.014	0.00	0.00
ATOM	4195	CB	HIE	X	280	53.693	42.956	63.760	0.00	0.00
ATOM	4196	HB2	HIE	X	280	52.768	43.421	63.419	0.00	0.00
ATOM	4197	HB3	HIE	X	280	53.343	42.050	64.254	0.00	0.00
ATOM	4198	CG	HIE	X	280	54.268	43.772	64.910	0.00	0.00

ATOM	4199	ND1	HIE	X	280	55.402	43.461	65.705	0.00	0.00
ATOM	4200	CE1	HIE	X	280	55.453	44.423	66.632	0.00	0.00
ATOM	4201	HE1	HIE	X	280	56.304	44.499	67.293	0.00	0.00
ATOM	4202	NE2	HIE	X	280	54.456	45.308	66.463	0.00	0.00
ATOM	4203	HE2	HIE	X	280	54.406	46.281	66.727	0.00	0.00
ATOM	4204	CD2	HIE	X	280	53.789	44.887	65.391	0.00	0.00
ATOM	4205	HD2	HIE	X	280	52.918	45.343	64.943	0.00	0.00
ATOM	4206	C	HIE	X	280	53.933	41.837	61.535	0.00	0.00
ATOM	4207	O	HIE	X	280	53.969	40.573	61.560	0.00	0.00
ATOM	4208	N	GLU	X	281	53.193	42.510	60.655	0.00	0.00
ATOM	4209	H	GLU	X	281	53.227	43.519	60.647	0.00	0.00
ATOM	4210	CA	GLU	X	281	51.970	41.987	59.985	0.00	0.00
ATOM	4211	HA	GLU	X	281	51.086	42.179	60.593	0.00	0.00
ATOM	4212	CB	GLU	X	281	51.695	42.674	58.591	0.00	0.00
ATOM	4213	HB2	GLU	X	281	52.064	43.693	58.712	0.00	0.00
ATOM	4214	HB3	GLU	X	281	52.319	42.276	57.790	0.00	0.00
ATOM	4215	CG	GLU	X	281	50.201	42.497	58.236	0.00	0.00
ATOM	4216	HG2	GLU	X	281	49.964	41.445	58.396	0.00	0.00
ATOM	4217	HG3	GLU	X	281	49.518	43.067	58.867	0.00	0.00
ATOM	4218	CD	GLU	X	281	49.978	42.810	56.715	0.00	0.00
ATOM	4219	OE1	GLU	X	281	49.407	43.904	56.439	0.00	0.00
ATOM	4220	OE2	GLU	X	281	50.247	41.945	55.913	0.00	0.00
ATOM	4221	C	GLU	X	281	51.886	40.414	59.725	0.00	0.00
ATOM	4222	O	GLU	X	281	51.073	39.696	60.298	0.00	0.00
ATOM	4223	N	TRP	X	282	52.775	39.887	58.862	0.00	0.00
ATOM	4224	H	TRP	X	282	53.502	40.528	58.577	0.00	0.00
ATOM	4225	CA	TRP	X	282	52.813	38.467	58.459	0.00	0.00
ATOM	4226	HA	TRP	X	282	51.807	38.379	58.048	0.00	0.00
ATOM	4227	CB	TRP	X	282	53.937	38.233	57.459	0.00	0.00
ATOM	4228	HB2	TRP	X	282	54.698	39.007	57.566	0.00	0.00
ATOM	4229	HB3	TRP	X	282	54.430	37.285	57.672	0.00	0.00
ATOM	4230	CG	TRP	X	282	53.397	38.384	56.040	0.00	0.00
ATOM	4231	CD1	TRP	X	282	52.931	39.565	55.520	0.00	0.00
ATOM	4232	HD1	TRP	X	282	52.931	40.510	56.044	0.00	0.00
ATOM	4233	NE1	TRP	X	282	52.449	39.345	54.201	0.00	0.00
ATOM	4234	HE1	TRP	X	282	52.085	40.048	53.574	0.00	0.00
ATOM	4235	CE2	TRP	X	282	52.452	37.998	53.956	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	52.037	37.289	52.819	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	51.540	37.854	52.044	0.00	0.00
ATOM	4238	CH2	TRP	X	282	52.331	35.912	52.719	0.00	0.00
ATOM	4239	HH2	TRP	X	282	52.035	35.371	51.832	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	53.043	35.237	53.733	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	53.273	34.185	53.650	0.00	0.00
ATOM	4242	CE3	TRP	X	282	53.478	35.955	54.909	0.00	0.00
ATOM	4243	HE3	TRP	X	282	53.962	35.335	55.649	0.00	0.00
ATOM	4244	CD2	TRP	X	282	53.183	37.346	55.038	0.00	0.00
ATOM	4245	C	TRP	X	282	52.868	37.499	59.545	0.00	0.00
ATOM	4246	O	TRP	X	282	52.486	36.340	59.448	0.00	0.00
ATOM	4247	N	HIE	X	283	53.229	37.853	60.784	0.00	0.00
ATOM	4248	H	HIE	X	283	53.633	38.768	60.922	0.00	0.00
ATOM	4249	CA	HIE	X	283	53.133	37.046	61.941	0.00	0.00
ATOM	4250	HA	HIE	X	283	53.738	36.140	61.899	0.00	0.00
ATOM	4251	CB	HIE	X	283	53.580	37.886	63.175	0.00	0.00
ATOM	4252	HB2	HIE	X	283	52.947	38.774	63.198	0.00	0.00
ATOM	4253	HB3	HIE	X	283	53.564	37.248	64.058	0.00	0.00
ATOM	4254	CG	HIE	X	283	55.036	38.367	63.132	0.00	0.00
ATOM	4255	ND1	HIE	X	283	55.512	39.265	64.048	0.00	0.00
ATOM	4256	CE1	HIE	X	283	56.859	39.388	63.720	0.00	0.00
ATOM	4257	HE1	HIE	X	283	57.423	40.212	64.133	0.00	0.00
ATOM	4258	NE2	HIE	X	283	57.192	38.617	62.695	0.00	0.00
ATOM	4259	HE2	HIE	X	283	58.103	38.624	62.259	0.00	0.00
ATOM	4260	CD2	HIE	X	283	56.076	38.039	62.297	0.00	0.00
ATOM	4261	HD2	HIE	X	283	56.063	37.338	61.475	0.00	0.00
ATOM	4262	C	HIE	X	283	51.744	36.565	62.213	0.00	0.00
ATOM	4263	O	HIE	X	283	51.522	35.565	62.929	0.00	0.00
ATOM	4264	N	VAL	X	284	50.743	37.259	61.707	0.00	0.00
ATOM	4265	H	VAL	X	284	50.933	38.185	61.350	0.00	0.00
ATOM	4266	CA	VAL	X	284	49.321	36.772	61.726	0.00	0.00
ATOM	4267	HA	VAL	X	284	49.037	36.521	62.748	0.00	0.00
ATOM	4268	CB	VAL	X	284	48.366	37.964	61.381	0.00	0.00

ATOM	4269	HB	VAL	X	284	47.393	37.523	61.599	0.00	0.00
ATOM	4270	CG1	VAL	X	284	48.515	39.148	62.291	0.00	0.00
ATOM	4271	HG11	VAL	X	284	47.679	39.794	62.025	0.00	0.00
ATOM	4272	HG12	VAL	X	284	48.440	38.798	63.320	0.00	0.00
ATOM	4273	HG13	VAL	X	284	49.428	39.728	62.152	0.00	0.00
ATOM	4274	CG2	VAL	X	284	48.292	38.224	59.842	0.00	0.00
ATOM	4275	HG21	VAL	X	284	49.266	38.559	59.488	0.00	0.00
ATOM	4276	HG22	VAL	X	284	48.064	37.322	59.273	0.00	0.00
ATOM	4277	HG23	VAL	X	284	47.498	38.954	59.686	0.00	0.00
ATOM	4278	C	VAL	X	284	49.008	35.503	60.878	0.00	0.00
ATOM	4279	O	VAL	X	284	48.073	34.764	61.084	0.00	0.00
ATOM	4280	N	LEU	X	285	49.849	35.250	59.875	0.00	0.00
ATOM	4281	H	LEU	X	285	50.585	35.933	59.764	0.00	0.00
ATOM	4282	CA	LEU	X	285	49.827	34.059	59.037	0.00	0.00
ATOM	4283	HA	LEU	X	285	48.864	33.577	59.200	0.00	0.00
ATOM	4284	CB	LEU	X	285	50.047	34.536	57.580	0.00	0.00
ATOM	4285	HB2	LEU	X	285	49.573	35.490	57.349	0.00	0.00
ATOM	4286	HB3	LEU	X	285	51.110	34.762	57.497	0.00	0.00
ATOM	4287	CG	LEU	X	285	49.556	33.470	56.622	0.00	0.00
ATOM	4288	HG	LEU	X	285	49.995	32.567	57.048	0.00	0.00
ATOM	4289	CD1	LEU	X	285	48.050	33.493	56.407	0.00	0.00
ATOM	4290	HD11	LEU	X	285	47.739	34.468	56.033	0.00	0.00
ATOM	4291	HD12	LEU	X	285	47.756	32.681	55.742	0.00	0.00
ATOM	4292	HD13	LEU	X	285	47.621	33.313	57.393	0.00	0.00
ATOM	4293	CD2	LEU	X	285	50.090	33.578	55.203	0.00	0.00
ATOM	4294	HD21	LEU	X	285	49.461	34.218	54.584	0.00	0.00
ATOM	4295	HD22	LEU	X	285	51.120	33.933	55.220	0.00	0.00
ATOM	4296	HD23	LEU	X	285	50.054	32.638	54.653	0.00	0.00
ATOM	4297	C	LEU	X	285	50.848	33.010	59.556	0.00	0.00
ATOM	4298	O	LEU	X	285	52.014	33.241	59.547	0.00	0.00
ATOM	4299	N	PRO	X	286	50.348	31.767	59.966	0.00	0.00
ATOM	4300	CD	PRO	X	286	48.940	31.431	60.119	0.00	0.00
ATOM	4301	HD2	PRO	X	286	48.380	31.632	59.205	0.00	0.00
ATOM	4302	HD3	PRO	X	286	48.498	32.049	60.901	0.00	0.00
ATOM	4303	CG	PRO	X	286	48.853	29.945	60.548	0.00	0.00
ATOM	4304	HG2	PRO	X	286	48.717	29.370	59.633	0.00	0.00
ATOM	4305	HG3	PRO	X	286	48.065	29.738	61.272	0.00	0.00
ATOM	4306	CB	PRO	X	286	50.231	29.574	61.059	0.00	0.00
ATOM	4307	HB2	PRO	X	286	50.540	28.565	60.786	0.00	0.00
ATOM	4308	HB3	PRO	X	286	50.451	29.824	62.097	0.00	0.00
ATOM	4309	CA	PRO	X	286	51.111	30.464	60.198	0.00	0.00
ATOM	4310	HA	PRO	X	286	52.048	30.529	60.751	0.00	0.00
ATOM	4311	C	PRO	X	286	51.540	29.822	58.820	0.00	0.00
ATOM	4312	O	PRO	X	286	50.817	29.922	57.802	0.00	0.00
ATOM	4313	N	GLN	X	287	52.700	29.090	58.918	0.00	0.00
ATOM	4314	H	GLN	X	287	53.069	28.849	59.826	0.00	0.00
ATOM	4315	CA	GLN	X	287	53.149	28.253	57.837	0.00	0.00
ATOM	4316	HA	GLN	X	287	52.908	28.793	56.921	0.00	0.00
ATOM	4317	CB	GLN	X	287	54.590	27.865	57.981	0.00	0.00
ATOM	4318	HB2	GLN	X	287	54.730	27.221	58.849	0.00	0.00
ATOM	4319	HB3	GLN	X	287	54.934	27.146	57.238	0.00	0.00
ATOM	4320	CG	GLN	X	287	55.372	29.205	57.819	0.00	0.00
ATOM	4321	HG2	GLN	X	287	55.034	29.693	56.905	0.00	0.00
ATOM	4322	HG3	GLN	X	287	55.232	29.931	58.620	0.00	0.00
ATOM	4323	CD	GLN	X	287	56.887	28.950	57.623	0.00	0.00
ATOM	4324	OE1	GLN	X	287	57.400	27.927	57.985	0.00	0.00
ATOM	4325	NE2	GLN	X	287	57.677	29.809	57.073	0.00	0.00
ATOM	4326	HE21	GLN	X	287	58.639	29.502	57.075	0.00	0.00
ATOM	4327	HE22	GLN	X	287	57.323	30.675	56.691	0.00	0.00
ATOM	4328	C	GLN	X	287	52.316	26.934	57.923	0.00	0.00
ATOM	4329	O	GLN	X	287	51.981	26.511	59.031	0.00	0.00
ATOM	4330	N	GLU	X	288	51.855	26.448	56.761	0.00	0.00
ATOM	4331	H	GLU	X	288	52.235	26.944	55.967	0.00	0.00
ATOM	4332	CA	GLU	X	288	51.102	25.185	56.528	0.00	0.00
ATOM	4333	HA	GLU	X	288	51.536	24.372	57.110	0.00	0.00
ATOM	4334	CB	GLU	X	288	49.632	25.346	57.089	0.00	0.00
ATOM	4335	HB2	GLU	X	288	49.608	25.584	58.152	0.00	0.00
ATOM	4336	HB3	GLU	X	288	49.137	26.160	56.559	0.00	0.00
ATOM	4337	CG	GLU	X	288	48.719	24.154	57.015	0.00	0.00
ATOM	4338	HG2	GLU	X	288	48.498	23.820	56.001	0.00	0.00

ATOM	4339	HG3	GLU	X	288	49.124	23.337	57.611	0.00	0.00
ATOM	4340	CD	GLU	X	288	47.314	24.306	57.654	0.00	0.00
ATOM	4341	OE1	GLU	X	288	46.297	24.148	56.908	0.00	0.00
ATOM	4342	OE2	GLU	X	288	47.215	24.331	58.879	0.00	0.00
ATOM	4343	C	GLU	X	288	51.029	24.770	55.024	0.00	0.00
ATOM	4344	O	GLU	X	288	51.220	23.626	54.672	0.00	0.00
ATOM	4345	N	SER	X	289	50.815	25.622	54.097	0.00	0.00
ATOM	4346	H	SER	X	289	50.495	26.558	54.302	0.00	0.00
ATOM	4347	CA	SER	X	289	50.651	25.262	52.671	0.00	0.00
ATOM	4348	HA	SER	X	289	51.149	24.307	52.502	0.00	0.00
ATOM	4349	CB	SER	X	289	49.080	25.075	52.283	0.00	0.00
ATOM	4350	HB2	SER	X	289	48.980	24.411	51.424	0.00	0.00
ATOM	4351	HB3	SER	X	289	48.698	24.387	53.036	0.00	0.00
ATOM	4352	OG	SER	X	289	48.348	26.249	52.131	0.00	0.00
ATOM	4353	HG	SER	X	289	47.759	26.394	52.875	0.00	0.00
ATOM	4354	C	SER	X	289	51.422	26.259	51.753	0.00	0.00
ATOM	4355	O	SER	X	289	52.638	26.298	51.740	0.00	0.00
ATOM	4356	N	VAL	X	290	50.719	26.998	50.934	0.00	0.00
ATOM	4357	H	VAL	X	290	49.721	26.845	50.909	0.00	0.00
ATOM	4358	CA	VAL	X	290	51.196	27.699	49.739	0.00	0.00
ATOM	4359	HA	VAL	X	290	52.001	28.301	50.160	0.00	0.00
ATOM	4360	CB	VAL	X	290	51.617	26.834	48.550	0.00	0.00
ATOM	4361	HB	VAL	X	290	52.147	25.945	48.891	0.00	0.00
ATOM	4362	CG1	VAL	X	290	50.586	26.478	47.400	0.00	0.00
ATOM	4363	HG11	VAL	X	290	50.511	27.275	46.660	0.00	0.00
ATOM	4364	HG12	VAL	X	290	50.964	25.593	46.887	0.00	0.00
ATOM	4365	HG13	VAL	X	290	49.582	26.203	47.723	0.00	0.00
ATOM	4366	CG2	VAL	X	290	52.832	27.512	47.927	0.00	0.00
ATOM	4367	HG21	VAL	X	290	53.659	27.450	48.633	0.00	0.00
ATOM	4368	HG22	VAL	X	290	53.166	26.938	47.063	0.00	0.00
ATOM	4369	HG23	VAL	X	290	52.690	28.499	47.486	0.00	0.00
ATOM	4370	C	VAL	X	290	50.133	28.769	49.313	0.00	0.00
ATOM	4371	O	VAL	X	290	48.942	28.478	49.484	0.00	0.00
ATOM	4372	N	PHE	X	291	50.554	29.926	48.689	0.00	0.00
ATOM	4373	H	PHE	X	291	51.553	29.979	48.548	0.00	0.00
ATOM	4374	CA	PHE	X	291	49.718	30.970	48.104	0.00	0.00
ATOM	4375	HA	PHE	X	291	50.358	31.819	47.867	0.00	0.00
ATOM	4376	CB	PHE	X	291	49.185	30.390	46.742	0.00	0.00
ATOM	4377	HB2	PHE	X	291	50.033	29.923	46.241	0.00	0.00
ATOM	4378	HB3	PHE	X	291	48.447	29.624	46.980	0.00	0.00
ATOM	4379	CG	PHE	X	291	48.584	31.252	45.583	0.00	0.00
ATOM	4380	CD1	PHE	X	291	48.168	32.547	45.911	0.00	0.00
ATOM	4381	HD1	PHE	X	291	48.302	33.114	46.820	0.00	0.00
ATOM	4382	CE1	PHE	X	291	47.572	33.267	44.854	0.00	0.00
ATOM	4383	HE1	PHE	X	291	47.267	34.291	45.008	0.00	0.00
ATOM	4384	CZ	PHE	X	291	47.522	32.716	43.576	0.00	0.00
ATOM	4385	HZ	PHE	X	291	47.207	33.321	42.739	0.00	0.00
ATOM	4386	CE2	PHE	X	291	48.046	31.425	43.366	0.00	0.00
ATOM	4387	HE2	PHE	X	291	48.036	30.875	42.437	0.00	0.00
ATOM	4388	CD2	PHE	X	291	48.560	30.669	44.359	0.00	0.00
ATOM	4389	HD2	PHE	X	291	48.996	29.709	44.125	0.00	0.00
ATOM	4390	C	PHE	X	291	48.601	31.479	49.045	0.00	0.00
ATOM	4391	O	PHE	X	291	47.517	31.862	48.636	0.00	0.00
ATOM	4392	N	ARG	X	292	48.897	31.420	50.359	0.00	0.00
ATOM	4393	H	ARG	X	292	49.816	31.109	50.641	0.00	0.00
ATOM	4394	CA	ARG	X	292	48.086	32.005	51.441	0.00	0.00
ATOM	4395	HA	ARG	X	292	47.058	32.139	51.107	0.00	0.00
ATOM	4396	CB	ARG	X	292	48.033	31.004	52.630	0.00	0.00
ATOM	4397	HB2	ARG	X	292	48.968	30.960	53.188	0.00	0.00
ATOM	4398	HB3	ARG	X	292	47.267	31.383	53.306	0.00	0.00
ATOM	4399	CG	ARG	X	292	47.645	29.596	52.395	0.00	0.00
ATOM	4400	HG2	ARG	X	292	48.497	29.042	52.002	0.00	0.00
ATOM	4401	HG3	ARG	X	292	47.508	29.131	53.371	0.00	0.00
ATOM	4402	CD	ARG	X	292	46.326	29.251	51.646	0.00	0.00
ATOM	4403	HD2	ARG	X	292	46.069	28.235	51.945	0.00	0.00
ATOM	4404	HD3	ARG	X	292	45.500	29.893	51.953	0.00	0.00
ATOM	4405	NE	ARG	X	292	46.461	29.356	50.218	0.00	0.00
ATOM	4406	HE	ARG	X	292	47.211	29.941	49.878	0.00	0.00
ATOM	4407	CZ	ARG	X	292	45.700	28.764	49.244	0.00	0.00
ATOM	4408	NH1	ARG	X	292	44.590	28.114	49.580	0.00	0.00

ATOM	4409	HH11	ARG	X	292	44.279	28.021	50.536	0.00	0.00
ATOM	4410	HH12	ARG	X	292	44.254	27.452	48.895	0.00	0.00
ATOM	4411	NH2	ARG	X	292	46.057	28.719	47.937	0.00	0.00
ATOM	4412	HH21	ARG	X	292	46.981	28.995	47.636	0.00	0.00
ATOM	4413	HH22	ARG	X	292	45.477	28.289	47.231	0.00	0.00
ATOM	4414	C	ARG	X	292	48.685	33.342	51.863	0.00	0.00
ATOM	4415	O	ARG	X	292	49.855	33.521	51.966	0.00	0.00
ATOM	4416	N	PHE	X	293	47.854	34.383	52.122	0.00	0.00
ATOM	4417	H	PHE	X	293	46.913	34.326	51.760	0.00	0.00
ATOM	4418	CA	PHE	X	293	48.313	35.764	52.409	0.00	0.00
ATOM	4419	HA	PHE	X	293	49.403	35.781	52.400	0.00	0.00
ATOM	4420	CB	PHE	X	293	47.804	36.689	51.344	0.00	0.00
ATOM	4421	HB2	PHE	X	293	46.721	36.781	51.270	0.00	0.00
ATOM	4422	HB3	PHE	X	293	48.197	37.695	51.491	0.00	0.00
ATOM	4423	CG	PHE	X	293	48.286	36.163	50.028	0.00	0.00
ATOM	4424	CD1	PHE	X	293	49.682	36.065	49.740	0.00	0.00
ATOM	4425	HD1	PHE	X	293	50.545	36.212	50.374	0.00	0.00
ATOM	4426	CE1	PHE	X	293	50.118	35.707	48.472	0.00	0.00
ATOM	4427	HE1	PHE	X	293	51.185	35.623	48.329	0.00	0.00
ATOM	4428	CZ	PHE	X	293	49.199	35.519	47.380	0.00	0.00
ATOM	4429	HZ	PHE	X	293	49.491	35.333	46.357	0.00	0.00
ATOM	4430	CE2	PHE	X	293	47.795	35.569	47.659	0.00	0.00
ATOM	4431	HE2	PHE	X	293	47.046	35.548	46.880	0.00	0.00
ATOM	4432	CD2	PHE	X	293	47.404	35.880	48.938	0.00	0.00
ATOM	4433	HD2	PHE	X	293	46.365	36.116	49.117	0.00	0.00
ATOM	4434	C	PHE	X	293	47.675	36.333	53.652	0.00	0.00
ATOM	4435	O	PHE	X	293	46.603	35.912	54.053	0.00	0.00
ATOM	4436	N	SER	X	294	48.339	37.358	54.232	0.00	0.00
ATOM	4437	H	SER	X	294	49.170	37.786	53.850	0.00	0.00
ATOM	4438	CA	SER	X	294	48.156	37.846	55.612	0.00	0.00
ATOM	4439	HA	SER	X	294	48.141	36.980	56.273	0.00	0.00
ATOM	4440	CB	SER	X	294	49.286	38.823	55.970	0.00	0.00
ATOM	4441	HB2	SER	X	294	49.006	39.482	56.792	0.00	0.00
ATOM	4442	HB3	SER	X	294	50.139	38.216	56.271	0.00	0.00
ATOM	4443	OG	SER	X	294	49.596	39.608	54.857	0.00	0.00
ATOM	4444	HG	SER	X	294	49.896	40.463	55.174	0.00	0.00
ATOM	4445	C	SER	X	294	46.840	38.509	55.908	0.00	0.00
ATOM	4446	O	SER	X	294	46.205	38.145	56.968	0.00	0.00
ATOM	4447	N	PHE	X	295	46.351	39.412	55.013	0.00	0.00
ATOM	4448	H	PHE	X	295	46.993	39.826	54.352	0.00	0.00
ATOM	4449	CA	PHE	X	295	44.971	39.958	55.094	0.00	0.00
ATOM	4450	HA	PHE	X	295	44.263	39.310	55.610	0.00	0.00
ATOM	4451	CB	PHE	X	295	45.067	41.343	55.798	0.00	0.00
ATOM	4452	HB2	PHE	X	295	45.941	41.860	55.401	0.00	0.00
ATOM	4453	HB3	PHE	X	295	44.287	42.085	55.626	0.00	0.00
ATOM	4454	CG	PHE	X	295	45.189	41.350	57.354	0.00	0.00
ATOM	4455	CD1	PHE	X	295	44.059	41.099	58.164	0.00	0.00
ATOM	4456	HD1	PHE	X	295	43.059	40.931	57.792	0.00	0.00
ATOM	4457	CE1	PHE	X	295	44.224	41.004	59.543	0.00	0.00
ATOM	4458	HE1	PHE	X	295	43.370	40.728	60.143	0.00	0.00
ATOM	4459	CZ	PHE	X	295	45.498	41.177	60.103	0.00	0.00
ATOM	4460	HZ	PHE	X	295	45.666	41.115	61.168	0.00	0.00
ATOM	4461	CE2	PHE	X	295	46.622	41.454	59.269	0.00	0.00
ATOM	4462	HE2	PHE	X	295	47.549	41.673	59.779	0.00	0.00
ATOM	4463	CD2	PHE	X	295	46.476	41.533	57.863	0.00	0.00
ATOM	4464	HD2	PHE	X	295	47.316	41.717	57.209	0.00	0.00
ATOM	4465	C	PHE	X	295	44.363	40.092	53.645	0.00	0.00
ATOM	4466	O	PHE	X	295	45.040	40.708	52.848	0.00	0.00
ATOM	4467	N	VAL	X	296	43.149	39.566	53.412	0.00	0.00
ATOM	4468	H	VAL	X	296	42.671	39.070	54.151	0.00	0.00
ATOM	4469	CA	VAL	X	296	42.464	39.529	52.106	0.00	0.00
ATOM	4470	HA	VAL	X	296	42.756	40.386	51.499	0.00	0.00
ATOM	4471	CB	VAL	X	296	42.853	38.142	51.536	0.00	0.00
ATOM	4472	HB	VAL	X	296	42.287	37.977	50.619	0.00	0.00
ATOM	4473	CG1	VAL	X	296	44.305	38.038	51.122	0.00	0.00
ATOM	4474	HG11	VAL	X	296	44.608	39.022	50.765	0.00	0.00
ATOM	4475	HG12	VAL	X	296	44.966	37.868	51.972	0.00	0.00
ATOM	4476	HG13	VAL	X	296	44.422	37.292	50.336	0.00	0.00
ATOM	4477	CG2	VAL	X	296	42.525	37.021	52.500	0.00	0.00
ATOM	4478	HG21	VAL	X	296	43.180	36.923	53.365	0.00	0.00

ATOM	4479	HG22	VAL	X	296	41.594	37.188	53.041	0.00	0.00
ATOM	4480	HG23	VAL	X	296	42.426	36.084	51.952	0.00	0.00
ATOM	4481	C	VAL	X	296	40.911	39.657	52.420	0.00	0.00
ATOM	4482	O	VAL	X	296	40.554	39.846	53.564	0.00	0.00
ATOM	4483	N	PRO	X	297	40.145	39.763	51.359	0.00	0.00
ATOM	4484	CD	PRO	X	297	40.533	39.817	49.979	0.00	0.00
ATOM	4485	HD2	PRO	X	297	40.633	38.759	49.739	0.00	0.00
ATOM	4486	HD3	PRO	X	297	41.439	40.367	49.727	0.00	0.00
ATOM	4487	CG	PRO	X	297	39.316	40.415	49.226	0.00	0.00
ATOM	4488	HG2	PRO	X	297	39.199	39.868	48.290	0.00	0.00
ATOM	4489	HG3	PRO	X	297	39.439	41.489	49.087	0.00	0.00
ATOM	4490	CB	PRO	X	297	38.071	40.029	50.081	0.00	0.00
ATOM	4491	HB2	PRO	X	297	37.720	39.020	49.863	0.00	0.00
ATOM	4492	HB3	PRO	X	297	37.271	40.751	49.917	0.00	0.00
ATOM	4493	CA	PRO	X	297	38.704	40.012	51.456	0.00	0.00
ATOM	4494	HA	PRO	X	297	38.602	41.020	51.859	0.00	0.00
ATOM	4495	C	PRO	X	297	37.987	38.978	52.365	0.00	0.00
ATOM	4496	O	PRO	X	297	38.408	37.834	52.433	0.00	0.00
ATOM	4497	N	VAL	X	298	36.956	39.452	53.032	0.00	0.00
ATOM	4498	H	VAL	X	298	36.727	40.426	52.899	0.00	0.00
ATOM	4499	CA	VAL	X	298	36.225	38.685	53.980	0.00	0.00
ATOM	4500	HA	VAL	X	298	36.541	37.652	54.120	0.00	0.00
ATOM	4501	CB	VAL	X	298	36.302	39.362	55.411	0.00	0.00
ATOM	4502	HB	VAL	X	298	35.933	40.386	55.353	0.00	0.00
ATOM	4503	CG1	VAL	X	298	35.522	38.669	56.484	0.00	0.00
ATOM	4504	HG11	VAL	X	298	35.487	37.596	56.294	0.00	0.00
ATOM	4505	HG12	VAL	X	298	36.067	38.761	57.424	0.00	0.00
ATOM	4506	HG13	VAL	X	298	34.501	39.044	56.555	0.00	0.00
ATOM	4507	CG2	VAL	X	298	37.806	39.414	55.717	0.00	0.00
ATOM	4508	HG21	VAL	X	298	38.016	39.814	56.708	0.00	0.00
ATOM	4509	HG22	VAL	X	298	38.190	38.394	55.727	0.00	0.00
ATOM	4510	HG23	VAL	X	298	38.345	39.973	54.952	0.00	0.00
ATOM	4511	C	VAL	X	298	34.772	38.455	53.664	0.00	0.00
ATOM	4512	O	VAL	X	298	34.082	39.367	53.214	0.00	0.00
ATOM	4513	N	VAL	X	299	34.254	37.291	53.922	0.00	0.00
ATOM	4514	H	VAL	X	299	34.921	36.704	54.403	0.00	0.00
ATOM	4515	CA	VAL	X	299	32.830	37.001	53.776	0.00	0.00
ATOM	4516	HA	VAL	X	299	32.523	37.422	52.819	0.00	0.00
ATOM	4517	CB	VAL	X	299	32.429	35.531	53.831	0.00	0.00
ATOM	4518	HB	VAL	X	299	32.702	35.091	54.790	0.00	0.00
ATOM	4519	CG1	VAL	X	299	30.886	35.455	53.759	0.00	0.00
ATOM	4520	HG11	VAL	X	299	30.374	35.851	54.636	0.00	0.00
ATOM	4521	HG12	VAL	X	299	30.465	35.968	52.894	0.00	0.00
ATOM	4522	HG13	VAL	X	299	30.670	34.388	53.710	0.00	0.00
ATOM	4523	CG2	VAL	X	299	33.068	34.717	52.665	0.00	0.00
ATOM	4524	HG21	VAL	X	299	32.565	33.752	52.604	0.00	0.00
ATOM	4525	HG22	VAL	X	299	32.998	35.139	51.662	0.00	0.00
ATOM	4526	HG23	VAL	X	299	34.115	34.601	52.945	0.00	0.00
ATOM	4527	C	VAL	X	299	32.246	37.764	54.958	0.00	0.00
ATOM	4528	O	VAL	X	299	32.650	37.436	56.065	0.00	0.00
ATOM	4529	N	ASP	X	300	31.429	38.765	54.762	0.00	0.00
ATOM	4530	H	ASP	X	300	30.941	38.816	53.880	0.00	0.00
ATOM	4531	CA	ASP	X	300	31.050	39.897	55.747	0.00	0.00
ATOM	4532	HA	ASP	X	300	31.425	39.645	56.739	0.00	0.00
ATOM	4533	CB	ASP	X	300	31.807	41.170	55.366	0.00	0.00
ATOM	4534	HB2	ASP	X	300	31.644	41.974	56.084	0.00	0.00
ATOM	4535	HB3	ASP	X	300	32.860	40.911	55.258	0.00	0.00
ATOM	4536	CG	ASP	X	300	31.487	41.821	53.998	0.00	0.00
ATOM	4537	OD1	ASP	X	300	30.779	41.246	53.171	0.00	0.00
ATOM	4538	OD2	ASP	X	300	31.829	43.049	53.831	0.00	0.00
ATOM	4539	C	ASP	X	300	29.549	40.170	55.809	0.00	0.00
ATOM	4540	O	ASP	X	300	29.040	40.725	56.790	0.00	0.00
ATOM	4541	N	GLY	X	301	28.813	39.779	54.770	0.00	0.00
ATOM	4542	H	GLY	X	301	29.349	39.589	53.936	0.00	0.00
ATOM	4543	CA	GLY	X	301	27.375	40.156	54.626	0.00	0.00
ATOM	4544	HA2	GLY	X	301	26.770	39.331	54.122	0.00	0.00
ATOM	4545	HA3	GLY	X	301	27.059	40.346	55.622	0.00	0.00
ATOM	4546	C	GLY	X	301	27.062	41.408	53.847	0.00	0.00
ATOM	4547	O	GLY	X	301	25.890	41.697	53.656	0.00	0.00
ATOM	4548	N	ASP	X	302	28.038	42.029	53.200	0.00	0.00

ATOM	4549	H	ASP	X	302	28.958	41.625	53.293	0.00	0.00
ATOM	4550	CA	ASP	X	302	27.844	43.251	52.348	0.00	0.00
ATOM	4551	HA	ASP	X	302	26.801	43.534	52.207	0.00	0.00
ATOM	4552	CB	ASP	X	302	28.255	44.463	53.137	0.00	0.00
ATOM	4553	HB2	ASP	X	302	27.621	44.574	54.017	0.00	0.00
ATOM	4554	HB3	ASP	X	302	29.251	44.341	53.564	0.00	0.00
ATOM	4555	CG	ASP	X	302	28.359	45.791	52.322	0.00	0.00
ATOM	4556	OD1	ASP	X	302	27.315	46.506	52.187	0.00	0.00
ATOM	4557	OD2	ASP	X	302	29.466	45.950	51.759	0.00	0.00
ATOM	4558	C	ASP	X	302	28.480	43.160	50.940	0.00	0.00
ATOM	4559	O	ASP	X	302	27.794	43.146	49.879	0.00	0.00
ATOM	4560	N	PHE	X	303	29.827	43.052	50.958	0.00	0.00
ATOM	4561	H	PHE	X	303	30.325	42.935	51.828	0.00	0.00
ATOM	4562	CA	PHE	X	303	30.537	42.936	49.674	0.00	0.00
ATOM	4563	HA	PHE	X	303	30.053	43.478	48.861	0.00	0.00
ATOM	4564	CB	PHE	X	303	31.927	43.372	49.764	0.00	0.00
ATOM	4565	HB2	PHE	X	303	32.131	43.974	50.649	0.00	0.00
ATOM	4566	HB3	PHE	X	303	32.556	42.482	49.762	0.00	0.00
ATOM	4567	CG	PHE	X	303	32.496	44.217	48.627	0.00	0.00
ATOM	4568	CD1	PHE	X	303	32.803	43.587	47.445	0.00	0.00
ATOM	4569	HD1	PHE	X	303	32.817	42.524	47.259	0.00	0.00
ATOM	4570	CE1	PHE	X	303	33.156	44.371	46.347	0.00	0.00
ATOM	4571	HE1	PHE	X	303	33.400	43.947	45.384	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.225	45.789	46.439	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.487	46.395	45.585	0.00	0.00
ATOM	4574	CE2	PHE	X	303	32.985	46.415	47.704	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.096	47.475	47.878	0.00	0.00
ATOM	4576	CD2	PHE	X	303	32.669	45.584	48.789	0.00	0.00
ATOM	4577	HD2	PHE	X	303	32.474	46.065	49.736	0.00	0.00
ATOM	4578	C	PHE	X	303	30.382	41.432	49.272	0.00	0.00
ATOM	4579	O	PHE	X	303	30.360	41.169	48.056	0.00	0.00
ATOM	4580	N	LEU	X	304	30.234	40.557	50.324	0.00	0.00
ATOM	4581	H	LEU	X	304	29.946	40.812	51.258	0.00	0.00
ATOM	4582	CA	LEU	X	304	30.229	39.044	50.111	0.00	0.00
ATOM	4583	HA	LEU	X	304	29.870	38.764	49.120	0.00	0.00
ATOM	4584	CB	LEU	X	304	31.596	38.496	50.437	0.00	0.00
ATOM	4585	HB2	LEU	X	304	31.901	39.040	51.331	0.00	0.00
ATOM	4586	HB3	LEU	X	304	31.674	37.424	50.617	0.00	0.00
ATOM	4587	CG	LEU	X	304	32.728	38.764	49.421	0.00	0.00
ATOM	4588	HG	LEU	X	304	32.938	39.833	49.381	0.00	0.00
ATOM	4589	CD1	LEU	X	304	34.048	37.979	49.851	0.00	0.00
ATOM	4590	HD11	LEU	X	304	34.300	38.478	50.787	0.00	0.00
ATOM	4591	HD12	LEU	X	304	33.816	36.933	50.050	0.00	0.00
ATOM	4592	HD13	LEU	X	304	34.811	38.210	49.108	0.00	0.00
ATOM	4593	CD2	LEU	X	304	32.414	38.191	47.975	0.00	0.00
ATOM	4594	HD21	LEU	X	304	33.170	38.328	47.203	0.00	0.00
ATOM	4595	HD22	LEU	X	304	32.244	37.126	48.134	0.00	0.00
ATOM	4596	HD23	LEU	X	304	31.561	38.661	47.486	0.00	0.00
ATOM	4597	C	LEU	X	304	29.195	38.431	51.074	0.00	0.00
ATOM	4598	O	LEU	X	304	29.466	38.434	52.257	0.00	0.00
ATOM	4599	N	SER	X	305	28.018	37.960	50.569	0.00	0.00
ATOM	4600	H	SER	X	305	27.710	38.096	49.617	0.00	0.00
ATOM	4601	CA	SER	X	305	27.000	37.339	51.370	0.00	0.00
ATOM	4602	HA	SER	X	305	27.147	37.573	52.425	0.00	0.00
ATOM	4603	CB	SER	X	305	25.531	37.743	50.951	0.00	0.00
ATOM	4604	HB2	SER	X	305	25.295	37.422	49.936	0.00	0.00
ATOM	4605	HB3	SER	X	305	24.753	37.288	51.564	0.00	0.00
ATOM	4606	OG	SER	X	305	25.404	39.158	51.042	0.00	0.00
ATOM	4607	HG	SER	X	305	24.775	39.270	51.759	0.00	0.00
ATOM	4608	C	SER	X	305	27.100	35.847	51.220	0.00	0.00
ATOM	4609	O	SER	X	305	26.290	35.073	51.713	0.00	0.00
ATOM	4610	N	ASP	X	306	28.193	35.395	50.608	0.00	0.00
ATOM	4611	H	ASP	X	306	28.869	36.064	50.268	0.00	0.00
ATOM	4612	CA	ASP	X	306	28.567	33.965	50.498	0.00	0.00
ATOM	4613	HA	ASP	X	306	28.728	33.452	51.446	0.00	0.00
ATOM	4614	CB	ASP	X	306	27.632	33.128	49.592	0.00	0.00
ATOM	4615	HB2	ASP	X	306	26.636	33.565	49.520	0.00	0.00
ATOM	4616	HB3	ASP	X	306	28.013	33.084	48.572	0.00	0.00
ATOM	4617	CG	ASP	X	306	27.500	31.728	50.155	0.00	0.00
ATOM	4618	OD1	ASP	X	306	28.440	31.144	50.703	0.00	0.00

ATOM	4619	OD2	ASP	X	306	26.318	31.334	50.007	0.00	0.00
ATOM	4620	C	ASP	X	306	30.061	33.920	49.986	0.00	0.00
ATOM	4621	O	ASP	X	306	30.573	34.991	49.565	0.00	0.00
ATOM	4622	N	THR	X	307	30.693	32.761	49.954	0.00	0.00
ATOM	4623	H	THR	X	307	30.172	31.902	50.057	0.00	0.00
ATOM	4624	CA	THR	X	307	32.033	32.615	49.333	0.00	0.00
ATOM	4625	HA	THR	X	307	32.606	33.415	49.802	0.00	0.00
ATOM	4626	CB	THR	X	307	32.677	31.310	49.690	0.00	0.00
ATOM	4627	HB	THR	X	307	33.431	31.057	48.945	0.00	0.00
ATOM	4628	CG2	THR	X	307	33.352	31.269	51.047	0.00	0.00
ATOM	4629	HG21	THR	X	307	33.721	30.293	51.363	0.00	0.00
ATOM	4630	HG22	THR	X	307	34.175	31.969	51.188	0.00	0.00
ATOM	4631	HG23	THR	X	307	32.569	31.616	51.721	0.00	0.00
ATOM	4632	OG1	THR	X	307	31.716	30.352	49.590	0.00	0.00
ATOM	4633	HG1	THR	X	307	32.190	29.543	49.793	0.00	0.00
ATOM	4634	C	THR	X	307	31.865	32.945	47.817	0.00	0.00
ATOM	4635	O	THR	X	307	30.865	32.544	47.222	0.00	0.00
ATOM	4636	N	PRO	X	308	32.802	33.660	47.218	0.00	0.00
ATOM	4637	CD	PRO	X	308	33.882	34.468	47.823	0.00	0.00
ATOM	4638	HD2	PRO	X	308	34.603	33.762	48.235	0.00	0.00
ATOM	4639	HD3	PRO	X	308	33.382	35.172	48.488	0.00	0.00
ATOM	4640	CG	PRO	X	308	34.369	35.380	46.715	0.00	0.00
ATOM	4641	HG2	PRO	X	308	35.449	35.499	46.807	0.00	0.00
ATOM	4642	HG3	PRO	X	308	33.837	36.332	46.710	0.00	0.00
ATOM	4643	CB	PRO	X	308	34.101	34.542	45.530	0.00	0.00
ATOM	4644	HB2	PRO	X	308	34.908	33.810	45.524	0.00	0.00
ATOM	4645	HB3	PRO	X	308	34.029	35.093	44.592	0.00	0.00
ATOM	4646	CA	PRO	X	308	32.729	33.936	45.825	0.00	0.00
ATOM	4647	HA	PRO	X	308	31.951	34.664	45.597	0.00	0.00
ATOM	4648	C	PRO	X	308	32.411	32.754	44.902	0.00	0.00
ATOM	4649	O	PRO	X	308	31.714	32.936	43.938	0.00	0.00
ATOM	4650	N	GLU	X	309	32.876	31.572	45.299	0.00	0.00
ATOM	4651	H	GLU	X	309	33.457	31.569	46.126	0.00	0.00
ATOM	4652	CA	GLU	X	309	32.597	30.280	44.600	0.00	0.00
ATOM	4653	HA	GLU	X	309	32.827	30.452	43.549	0.00	0.00
ATOM	4654	CB	GLU	X	309	33.568	29.254	45.166	0.00	0.00
ATOM	4655	HB2	GLU	X	309	34.532	29.758	45.236	0.00	0.00
ATOM	4656	HB3	GLU	X	309	33.247	28.712	46.056	0.00	0.00
ATOM	4657	CG	GLU	X	309	33.870	28.194	44.169	0.00	0.00
ATOM	4658	HG2	GLU	X	309	32.917	27.740	43.900	0.00	0.00
ATOM	4659	HG3	GLU	X	309	34.293	28.663	43.281	0.00	0.00
ATOM	4660	CD	GLU	X	309	34.729	27.023	44.783	0.00	0.00
ATOM	4661	OE1	GLU	X	309	35.782	26.648	44.199	0.00	0.00
ATOM	4662	OE2	GLU	X	309	34.384	26.444	45.894	0.00	0.00
ATOM	4663	C	GLU	X	309	31.057	29.814	44.611	0.00	0.00
ATOM	4664	O	GLU	X	309	30.675	29.134	43.747	0.00	0.00
ATOM	4665	N	ALA	X	310	30.327	30.351	45.581	0.00	0.00
ATOM	4666	H	ALA	X	310	30.695	30.966	46.292	0.00	0.00
ATOM	4667	CA	ALA	X	310	28.861	30.076	45.594	0.00	0.00
ATOM	4668	HA	ALA	X	310	28.634	29.188	45.003	0.00	0.00
ATOM	4669	CB	ALA	X	310	28.437	29.760	47.025	0.00	0.00
ATOM	4670	HB1	ALA	X	310	29.212	29.283	47.626	0.00	0.00
ATOM	4671	HB2	ALA	X	310	28.152	30.635	47.609	0.00	0.00
ATOM	4672	HB3	ALA	X	310	27.739	28.923	47.028	0.00	0.00
ATOM	4673	C	ALA	X	310	28.096	31.380	45.074	0.00	0.00
ATOM	4674	O	ALA	X	310	27.031	31.341	44.425	0.00	0.00
ATOM	4675	N	LEU	X	311	28.617	32.591	45.381	0.00	0.00
ATOM	4676	H	LEU	X	311	29.434	32.589	45.974	0.00	0.00
ATOM	4677	CA	LEU	X	311	28.086	33.841	44.819	0.00	0.00
ATOM	4678	HA	LEU	X	311	27.044	33.924	45.126	0.00	0.00
ATOM	4679	CB	LEU	X	311	28.842	35.091	45.287	0.00	0.00
ATOM	4680	HB2	LEU	X	311	29.925	35.046	45.168	0.00	0.00
ATOM	4681	HB3	LEU	X	311	28.556	35.959	44.694	0.00	0.00
ATOM	4682	CG	LEU	X	311	28.530	35.581	46.722	0.00	0.00
ATOM	4683	HG	LEU	X	311	28.698	34.744	47.399	0.00	0.00
ATOM	4684	CD1	LEU	X	311	29.488	36.699	47.163	0.00	0.00
ATOM	4685	HD11	LEU	X	311	29.205	36.995	48.173	0.00	0.00
ATOM	4686	HD12	LEU	X	311	30.485	36.270	47.271	0.00	0.00
ATOM	4687	HD13	LEU	X	311	29.463	37.638	46.611	0.00	0.00
ATOM	4688	CD2	LEU	X	311	27.043	36.056	46.904	0.00	0.00

ATOM	4689	HD21	LEU	X	311	27.054	36.999	46.357	0.00	0.00
ATOM	4690	HD22	LEU	X	311	26.381	35.294	46.493	0.00	0.00
ATOM	4691	HD23	LEU	X	311	26.721	36.289	47.919	0.00	0.00
ATOM	4692	C	LEU	X	311	28.193	33.821	43.231	0.00	0.00
ATOM	4693	O	LEU	X	311	27.284	34.292	42.543	0.00	0.00
ATOM	4694	N	ILE	X	312	29.267	33.267	42.625	0.00	0.00
ATOM	4695	H	ILE	X	312	29.954	32.912	43.273	0.00	0.00
ATOM	4696	CA	ILE	X	312	29.347	32.997	41.180	0.00	0.00
ATOM	4697	HA	ILE	X	312	29.043	33.931	40.707	0.00	0.00
ATOM	4698	CB	ILE	X	312	30.802	32.746	40.797	0.00	0.00
ATOM	4699	HB	ILE	X	312	31.407	33.537	41.239	0.00	0.00
ATOM	4700	CG2	ILE	X	312	31.358	31.392	41.300	0.00	0.00
ATOM	4701	HG21	ILE	X	312	32.432	31.564	41.379	0.00	0.00
ATOM	4702	HG22	ILE	X	312	30.947	31.363	42.309	0.00	0.00
ATOM	4703	HG23	ILE	X	312	30.998	30.541	40.721	0.00	0.00
ATOM	4704	CG1	ILE	X	312	30.914	32.904	39.255	0.00	0.00
ATOM	4705	HG12	ILE	X	312	30.313	32.210	38.667	0.00	0.00
ATOM	4706	HG13	ILE	X	312	30.615	33.867	38.842	0.00	0.00
ATOM	4707	CD1	ILE	X	312	32.346	32.707	38.797	0.00	0.00
ATOM	4708	HD11	ILE	X	312	32.386	33.069	37.770	0.00	0.00
ATOM	4709	HD12	ILE	X	312	32.970	33.277	39.485	0.00	0.00
ATOM	4710	HD13	ILE	X	312	32.572	31.641	38.846	0.00	0.00
ATOM	4711	C	ILE	X	312	28.382	31.899	40.694	0.00	0.00
ATOM	4712	O	ILE	X	312	27.993	31.972	39.566	0.00	0.00
ATOM	4713	N	ASN	X	313	28.088	30.919	41.587	0.00	0.00
ATOM	4714	H	ASN	X	313	28.720	30.774	42.361	0.00	0.00
ATOM	4715	CA	ASN	X	313	27.018	29.914	41.415	0.00	0.00
ATOM	4716	HA	ASN	X	313	27.054	29.503	40.406	0.00	0.00
ATOM	4717	CB	ASN	X	313	27.245	28.770	42.437	0.00	0.00
ATOM	4718	HB2	ASN	X	313	28.290	28.491	42.571	0.00	0.00
ATOM	4719	HB3	ASN	X	313	26.855	29.144	43.383	0.00	0.00
ATOM	4720	CG	ASN	X	313	26.561	27.459	42.081	0.00	0.00
ATOM	4721	OD1	ASN	X	313	25.983	27.128	41.038	0.00	0.00
ATOM	4722	ND2	ASN	X	313	26.521	26.537	43.033	0.00	0.00
ATOM	4723	HD21	ASN	X	313	25.942	25.754	42.763	0.00	0.00
ATOM	4724	HD22	ASN	X	313	27.022	26.624	43.905	0.00	0.00
ATOM	4725	C	ASN	X	313	25.586	30.434	41.436	0.00	0.00
ATOM	4726	O	ASN	X	313	24.661	29.719	41.047	0.00	0.00
ATOM	4727	N	ALA	X	314	25.350	31.626	41.832	0.00	0.00
ATOM	4728	H	ALA	X	314	26.192	32.120	42.089	0.00	0.00
ATOM	4729	CA	ALA	X	314	24.055	32.271	42.243	0.00	0.00
ATOM	4730	HA	ALA	X	314	23.217	31.643	41.942	0.00	0.00
ATOM	4731	CB	ALA	X	314	24.103	32.327	43.789	0.00	0.00
ATOM	4732	HB1	ALA	X	314	24.225	31.374	44.304	0.00	0.00
ATOM	4733	HB2	ALA	X	314	24.768	33.061	44.244	0.00	0.00
ATOM	4734	HB3	ALA	X	314	23.167	32.776	44.120	0.00	0.00
ATOM	4735	C	ALA	X	314	23.799	33.667	41.576	0.00	0.00
ATOM	4736	O	ALA	X	314	22.754	34.271	41.685	0.00	0.00
ATOM	4737	N	GLY	X	315	24.773	34.172	40.785	0.00	0.00
ATOM	4738	H	GLY	X	315	25.646	33.677	40.667	0.00	0.00
ATOM	4739	CA	GLY	X	315	24.707	35.528	40.149	0.00	0.00
ATOM	4740	HA2	GLY	X	315	23.987	36.141	40.686	0.00	0.00
ATOM	4741	HA3	GLY	X	315	25.689	35.996	40.228	0.00	0.00
ATOM	4742	C	GLY	X	315	24.195	35.485	38.666	0.00	0.00
ATOM	4743	O	GLY	X	315	24.264	34.441	37.966	0.00	0.00
ATOM	4744	N	ASP	X	316	23.559	36.559	38.294	0.00	0.00
ATOM	4745	H	ASP	X	316	23.286	37.222	39.006	0.00	0.00
ATOM	4746	CA	ASP	X	316	23.041	36.710	36.978	0.00	0.00
ATOM	4747	HA	ASP	X	316	23.053	35.786	36.400	0.00	0.00
ATOM	4748	CB	ASP	X	316	21.677	37.297	37.122	0.00	0.00
ATOM	4749	HB2	ASP	X	316	20.976	36.672	37.676	0.00	0.00
ATOM	4750	HB3	ASP	X	316	21.769	38.233	37.672	0.00	0.00
ATOM	4751	CG	ASP	X	316	21.127	37.454	35.705	0.00	0.00
ATOM	4752	OD1	ASP	X	316	20.689	36.498	35.062	0.00	0.00
ATOM	4753	OD2	ASP	X	316	21.208	38.581	35.146	0.00	0.00
ATOM	4754	C	ASP	X	316	23.974	37.752	36.245	0.00	0.00
ATOM	4755	O	ASP	X	316	24.114	38.885	36.774	0.00	0.00
ATOM	4756	N	PHE	X	317	24.439	37.323	35.091	0.00	0.00
ATOM	4757	H	PHE	X	317	24.276	36.449	34.612	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.460	38.087	34.330	0.00	0.00

ATOM	4759	HA	PHE	X	317	25.687	39.015	34.854	0.00	0.00
ATOM	4760	CB	PHE	X	317	26.762	37.293	34.321	0.00	0.00
ATOM	4761	HB2	PHE	X	317	26.628	36.358	33.776	0.00	0.00
ATOM	4762	HB3	PHE	X	317	27.583	37.809	33.823	0.00	0.00
ATOM	4763	CG	PHE	X	317	27.383	36.913	35.637	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.008	37.806	36.484	0.00	0.00
ATOM	4765	HD1	PHE	X	317	27.985	38.870	36.295	0.00	0.00
ATOM	4766	CE1	PHE	X	317	28.683	37.347	37.621	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.359	38.000	38.154	0.00	0.00
ATOM	4768	CZ	PHE	X	317	28.632	35.998	37.968	0.00	0.00
ATOM	4769	HZ	PHE	X	317	29.316	35.642	38.725	0.00	0.00
ATOM	4770	CE2	PHE	X	317	27.970	35.056	37.182	0.00	0.00
ATOM	4771	HE2	PHE	X	317	27.832	34.028	37.483	0.00	0.00
ATOM	4772	CD2	PHE	X	317	27.254	35.562	36.104	0.00	0.00
ATOM	4773	HD2	PHE	X	317	26.622	34.889	35.544	0.00	0.00
ATOM	4774	C	PHE	X	317	24.918	38.555	32.943	0.00	0.00
ATOM	4775	O	PHE	X	317	25.653	38.858	32.013	0.00	0.00
ATOM	4776	N	HIE	X	318	23.610	38.602	32.812	0.00	0.00
ATOM	4777	H	HIE	X	318	23.126	38.302	33.647	0.00	0.00
ATOM	4778	CA	HIE	X	318	22.929	38.739	31.499	0.00	0.00
ATOM	4779	HA	HIE	X	318	23.374	37.964	30.875	0.00	0.00
ATOM	4780	CB	HIE	X	318	21.465	38.335	31.603	0.00	0.00
ATOM	4781	HB2	HIE	X	318	21.393	37.272	31.832	0.00	0.00
ATOM	4782	HB3	HIE	X	318	20.907	39.003	32.259	0.00	0.00
ATOM	4783	CG	HIE	X	318	20.848	38.396	30.223	0.00	0.00
ATOM	4784	ND1	HIE	X	318	20.390	39.517	29.548	0.00	0.00
ATOM	4785	CE1	HIE	X	318	20.104	39.151	28.288	0.00	0.00
ATOM	4786	HE1	HIE	X	318	19.688	39.904	27.636	0.00	0.00
ATOM	4787	NE2	HIE	X	318	20.223	37.835	28.120	0.00	0.00
ATOM	4788	HE2	HIE	X	318	20.052	37.331	27.262	0.00	0.00
ATOM	4789	CD2	HIE	X	318	20.779	37.371	29.307	0.00	0.00
ATOM	4790	HD2	HIE	X	318	21.087	36.370	29.573	0.00	0.00
ATOM	4791	C	HIE	X	318	23.173	40.069	30.796	0.00	0.00
ATOM	4792	O	HIE	X	318	23.049	41.147	31.423	0.00	0.00
ATOM	4793	N	GLY	X	319	23.543	40.060	29.464	0.00	0.00
ATOM	4794	H	GLY	X	319	23.579	39.215	28.912	0.00	0.00
ATOM	4795	CA	GLY	X	319	23.851	41.324	28.776	0.00	0.00
ATOM	4796	HA2	GLY	X	319	23.577	41.110	27.704	0.00	0.00
ATOM	4797	HA3	GLY	X	319	23.329	42.166	29.228	0.00	0.00
ATOM	4798	C	GLY	X	319	25.300	41.874	28.761	0.00	0.00
ATOM	4799	O	GLY	X	319	25.514	42.920	28.114	0.00	0.00
ATOM	4800	N	LEU	X	320	26.212	41.241	29.495	0.00	0.00
ATOM	4801	H	LEU	X	320	25.846	40.637	30.217	0.00	0.00
ATOM	4802	CA	LEU	X	320	27.525	41.768	29.747	0.00	0.00
ATOM	4803	HA	LEU	X	320	27.633	42.769	29.330	0.00	0.00
ATOM	4804	CB	LEU	X	320	27.915	41.697	31.258	0.00	0.00
ATOM	4805	HB2	LEU	X	320	28.162	40.660	31.483	0.00	0.00
ATOM	4806	HB3	LEU	X	320	28.873	42.161	31.491	0.00	0.00
ATOM	4807	CG	LEU	X	320	26.979	42.246	32.257	0.00	0.00
ATOM	4808	HG	LEU	X	320	25.940	41.967	32.081	0.00	0.00
ATOM	4809	CD1	LEU	X	320	27.458	41.710	33.695	0.00	0.00
ATOM	4810	HD11	LEU	X	320	27.139	42.330	34.533	0.00	0.00
ATOM	4811	HD12	LEU	X	320	27.072	40.700	33.826	0.00	0.00
ATOM	4812	HD13	LEU	X	320	28.538	41.738	33.838	0.00	0.00
ATOM	4813	CD2	LEU	X	320	27.139	43.778	32.271	0.00	0.00
ATOM	4814	HD21	LEU	X	320	28.052	43.983	32.830	0.00	0.00
ATOM	4815	HD22	LEU	X	320	27.464	44.140	31.296	0.00	0.00
ATOM	4816	HD23	LEU	X	320	26.237	44.257	32.653	0.00	0.00
ATOM	4817	C	LEU	X	320	28.579	41.040	28.877	0.00	0.00
ATOM	4818	O	LEU	X	320	28.162	40.205	28.011	0.00	0.00
ATOM	4819	N	GLN	X	321	29.805	41.441	28.953	0.00	0.00
ATOM	4820	H	GLN	X	321	30.084	42.157	29.608	0.00	0.00
ATOM	4821	CA	GLN	X	321	30.936	40.864	28.272	0.00	0.00
ATOM	4822	HA	GLN	X	321	30.662	39.830	28.063	0.00	0.00
ATOM	4823	CB	GLN	X	321	31.284	41.576	26.976	0.00	0.00
ATOM	4824	HB2	GLN	X	321	31.710	42.564	27.151	0.00	0.00
ATOM	4825	HB3	GLN	X	321	32.079	40.991	26.515	0.00	0.00
ATOM	4826	CG	GLN	X	321	30.126	41.814	25.936	0.00	0.00
ATOM	4827	HG2	GLN	X	321	30.478	42.233	24.993	0.00	0.00
ATOM	4828	HG3	GLN	X	321	29.548	40.924	25.685	0.00	0.00

ATOM	4829	CD	GLN	X	321	29.204	42.979	26.437	0.00	0.00
ATOM	4830	OE1	GLN	X	321	29.709	43.981	26.951	0.00	0.00
ATOM	4831	NE2	GLN	X	321	27.880	42.908	26.127	0.00	0.00
ATOM	4832	HE21	GLN	X	321	27.284	43.622	26.522	0.00	0.00
ATOM	4833	HE22	GLN	X	321	27.573	42.367	25.332	0.00	0.00
ATOM	4834	C	GLN	X	321	32.091	40.861	29.258	0.00	0.00
ATOM	4835	O	GLN	X	321	32.216	41.792	30.055	0.00	0.00
ATOM	4836	N	VAL	X	322	32.866	39.754	29.273	0.00	0.00
ATOM	4837	H	VAL	X	322	32.667	38.970	28.668	0.00	0.00
ATOM	4838	CA	VAL	X	322	34.062	39.574	30.125	0.00	0.00
ATOM	4839	HA	VAL	X	322	34.459	40.519	30.498	0.00	0.00
ATOM	4840	CB	VAL	X	322	33.789	38.700	31.380	0.00	0.00
ATOM	4841	HB	VAL	X	322	33.936	37.699	30.975	0.00	0.00
ATOM	4842	CG1	VAL	X	322	34.976	38.889	32.430	0.00	0.00
ATOM	4843	HG11	VAL	X	322	34.885	38.091	33.168	0.00	0.00
ATOM	4844	HG12	VAL	X	322	35.964	38.935	31.973	0.00	0.00
ATOM	4845	HG13	VAL	X	322	34.849	39.848	32.931	0.00	0.00
ATOM	4846	CG2	VAL	X	322	32.452	38.988	32.071	0.00	0.00
ATOM	4847	HG21	VAL	X	322	32.405	40.029	32.389	0.00	0.00
ATOM	4848	HG22	VAL	X	322	31.582	38.777	31.449	0.00	0.00
ATOM	4849	HG23	VAL	X	322	32.488	38.337	32.945	0.00	0.00
ATOM	4850	C	VAL	X	322	35.164	38.884	29.263	0.00	0.00
ATOM	4851	O	VAL	X	322	34.828	38.015	28.450	0.00	0.00
ATOM	4852	N	LEU	X	323	36.445	39.206	29.453	0.00	0.00
ATOM	4853	H	LEU	X	323	36.538	40.020	30.043	0.00	0.00
ATOM	4854	CA	LEU	X	323	37.605	38.547	28.862	0.00	0.00
ATOM	4855	HA	LEU	X	323	37.336	37.775	28.141	0.00	0.00
ATOM	4856	CB	LEU	X	323	38.402	39.649	28.164	0.00	0.00
ATOM	4857	HB2	LEU	X	323	37.713	40.167	27.497	0.00	0.00
ATOM	4858	HB3	LEU	X	323	38.753	40.379	28.893	0.00	0.00
ATOM	4859	CG	LEU	X	323	39.522	39.187	27.299	0.00	0.00
ATOM	4860	HG	LEU	X	323	39.120	38.493	26.561	0.00	0.00
ATOM	4861	CD1	LEU	X	323	40.065	40.401	26.467	0.00	0.00
ATOM	4862	HD11	LEU	X	323	39.308	40.700	25.742	0.00	0.00
ATOM	4863	HD12	LEU	X	323	40.241	41.312	27.039	0.00	0.00
ATOM	4864	HD13	LEU	X	323	40.881	40.121	25.800	0.00	0.00
ATOM	4865	CD2	LEU	X	323	40.683	38.474	28.045	0.00	0.00
ATOM	4866	HD21	LEU	X	323	40.506	37.405	28.169	0.00	0.00
ATOM	4867	HD22	LEU	X	323	41.512	38.466	27.338	0.00	0.00
ATOM	4868	HD23	LEU	X	323	41.011	38.967	28.960	0.00	0.00
ATOM	4869	C	LEU	X	323	38.351	37.957	30.109	0.00	0.00
ATOM	4870	O	LEU	X	323	38.523	38.588	31.201	0.00	0.00
ATOM	4871	N	VAL	X	324	38.800	36.724	29.993	0.00	0.00
ATOM	4872	H	VAL	X	324	38.767	36.229	29.113	0.00	0.00
ATOM	4873	CA	VAL	X	324	39.278	35.877	31.105	0.00	0.00
ATOM	4874	HA	VAL	X	324	39.663	36.534	31.885	0.00	0.00
ATOM	4875	CB	VAL	X	324	38.186	34.998	31.749	0.00	0.00
ATOM	4876	HB	VAL	X	324	38.597	34.393	32.558	0.00	0.00
ATOM	4877	CG1	VAL	X	324	36.866	35.801	32.067	0.00	0.00
ATOM	4878	HG11	VAL	X	324	37.181	36.747	32.506	0.00	0.00
ATOM	4879	HG12	VAL	X	324	36.320	36.010	31.147	0.00	0.00
ATOM	4880	HG13	VAL	X	324	36.180	35.334	32.774	0.00	0.00
ATOM	4881	CG2	VAL	X	324	37.755	33.876	30.758	0.00	0.00
ATOM	4882	HG21	VAL	X	324	37.546	34.332	29.790	0.00	0.00
ATOM	4883	HG22	VAL	X	324	38.554	33.151	30.600	0.00	0.00
ATOM	4884	HG23	VAL	X	324	36.838	33.424	31.133	0.00	0.00
ATOM	4885	C	VAL	X	324	40.485	35.137	30.683	0.00	0.00
ATOM	4886	O	VAL	X	324	40.521	34.680	29.576	0.00	0.00
ATOM	4887	N	GLY	X	325	41.523	34.883	31.466	0.00	0.00
ATOM	4888	H	GLY	X	325	41.616	35.561	32.209	0.00	0.00
ATOM	4889	CA	GLY	X	325	42.634	33.990	31.102	0.00	0.00
ATOM	4890	HA2	GLY	X	325	42.246	33.024	30.878	0.00	0.00
ATOM	4891	HA3	GLY	X	325	43.075	34.210	30.150	0.00	0.00
ATOM	4892	C	GLY	X	325	43.792	33.896	32.085	0.00	0.00
ATOM	4893	O	GLY	X	325	43.635	34.220	33.232	0.00	0.00
ATOM	4894	N	VAL	X	326	44.892	33.335	31.588	0.00	0.00
ATOM	4895	H	VAL	X	326	44.846	32.996	30.638	0.00	0.00
ATOM	4896	CA	VAL	X	326	46.041	32.836	32.371	0.00	0.00
ATOM	4897	HA	VAL	X	326	46.276	33.503	33.200	0.00	0.00
ATOM	4898	CB	VAL	X	326	45.873	31.437	32.967	0.00	0.00

ATOM	4899	HB	VAL	X	326	46.765	30.850	33.186	0.00	0.00
ATOM	4900	CG1	VAL	X	326	44.910	31.485	34.168	0.00	0.00
ATOM	4901	HG11	VAL	X	326	43.906	31.723	33.817	0.00	0.00
ATOM	4902	HG12	VAL	X	326	44.934	30.615	34.824	0.00	0.00
ATOM	4903	HG13	VAL	X	326	45.226	32.290	34.833	0.00	0.00
ATOM	4904	CG2	VAL	X	326	45.243	30.503	31.843	0.00	0.00
ATOM	4905	HG21	VAL	X	326	45.222	29.476	32.207	0.00	0.00
ATOM	4906	HG22	VAL	X	326	44.181	30.747	31.822	0.00	0.00
ATOM	4907	HG23	VAL	X	326	45.760	30.477	30.884	0.00	0.00
ATOM	4908	C	VAL	X	326	47.286	32.829	31.517	0.00	0.00
ATOM	4909	O	VAL	X	326	47.142	32.908	30.315	0.00	0.00
ATOM	4910	N	VAL	X	327	48.424	32.613	32.130	0.00	0.00
ATOM	4911	H	VAL	X	327	48.377	32.651	33.138	0.00	0.00
ATOM	4912	CA	VAL	X	327	49.622	32.119	31.431	0.00	0.00
ATOM	4913	HA	VAL	X	327	49.584	32.397	30.378	0.00	0.00
ATOM	4914	CB	VAL	X	327	50.980	32.761	32.019	0.00	0.00
ATOM	4915	HB	VAL	X	327	51.784	32.318	31.432	0.00	0.00
ATOM	4916	CG1	VAL	X	327	50.962	34.272	31.871	0.00	0.00
ATOM	4917	HG11	VAL	X	327	50.110	34.749	32.354	0.00	0.00
ATOM	4918	HG12	VAL	X	327	51.908	34.609	32.295	0.00	0.00
ATOM	4919	HG13	VAL	X	327	50.825	34.514	30.817	0.00	0.00
ATOM	4920	CG2	VAL	X	327	51.238	32.554	33.537	0.00	0.00
ATOM	4921	HG21	VAL	X	327	52.217	32.988	33.739	0.00	0.00
ATOM	4922	HG22	VAL	X	327	50.422	33.036	34.075	0.00	0.00
ATOM	4923	HG23	VAL	X	327	51.336	31.509	33.830	0.00	0.00
ATOM	4924	C	VAL	X	327	49.700	30.598	31.475	0.00	0.00
ATOM	4925	O	VAL	X	327	48.921	29.964	32.145	0.00	0.00
ATOM	4926	N	LYS	X	328	50.695	30.059	30.797	0.00	0.00
ATOM	4927	H	LYS	X	328	51.318	30.612	30.226	0.00	0.00
ATOM	4928	CA	LYS	X	328	51.081	28.615	30.680	0.00	0.00
ATOM	4929	HA	LYS	X	328	50.207	28.153	30.219	0.00	0.00
ATOM	4930	CB	LYS	X	328	52.336	28.641	29.727	0.00	0.00
ATOM	4931	HB2	LYS	X	328	52.251	29.196	28.793	0.00	0.00
ATOM	4932	HB3	LYS	X	328	53.164	29.017	30.329	0.00	0.00
ATOM	4933	CG	LYS	X	328	52.627	27.198	29.321	0.00	0.00
ATOM	4934	HG2	LYS	X	328	52.655	26.626	30.249	0.00	0.00
ATOM	4935	HG3	LYS	X	328	51.816	26.910	28.652	0.00	0.00
ATOM	4936	CD	LYS	X	328	53.930	27.136	28.496	0.00	0.00
ATOM	4937	HD2	LYS	X	328	53.684	27.428	27.475	0.00	0.00
ATOM	4938	HD3	LYS	X	328	54.532	27.976	28.841	0.00	0.00
ATOM	4939	CE	LYS	X	328	54.857	25.933	28.628	0.00	0.00
ATOM	4940	HE2	LYS	X	328	54.513	25.079	28.044	0.00	0.00
ATOM	4941	HE3	LYS	X	328	55.853	26.282	28.355	0.00	0.00
ATOM	4942	NZ	LYS	X	328	54.879	25.478	30.035	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	54.021	25.029	30.323	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	55.721	24.963	30.246	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	54.960	26.259	30.670	0.00	0.00
ATOM	4946	C	LYS	X	328	51.441	27.992	32.065	0.00	0.00
ATOM	4947	O	LYS	X	328	51.044	26.803	32.266	0.00	0.00
ATOM	4948	N	ASP	X	329	52.215	28.639	32.954	0.00	0.00
ATOM	4949	H	ASP	X	329	52.599	29.512	32.623	0.00	0.00
ATOM	4950	CA	ASP	X	329	52.745	28.112	34.207	0.00	0.00
ATOM	4951	HA	ASP	X	329	52.455	27.098	34.479	0.00	0.00
ATOM	4952	CB	ASP	X	329	54.281	27.935	34.064	0.00	0.00
ATOM	4953	HB2	ASP	X	329	54.781	28.885	33.873	0.00	0.00
ATOM	4954	HB3	ASP	X	329	54.660	27.515	34.995	0.00	0.00
ATOM	4955	CG	ASP	X	329	54.610	27.093	32.852	0.00	0.00
ATOM	4956	OD1	ASP	X	329	54.322	25.877	32.714	0.00	0.00
ATOM	4957	OD2	ASP	X	329	55.229	27.712	31.906	0.00	0.00
ATOM	4958	C	ASP	X	329	52.304	28.974	35.412	0.00	0.00
ATOM	4959	O	ASP	X	329	53.104	29.528	36.146	0.00	0.00
ATOM	4960	N	GLU	X	330	51.047	28.925	35.749	0.00	0.00
ATOM	4961	H	GLU	X	330	50.457	28.357	35.158	0.00	0.00
ATOM	4962	CA	GLU	X	330	50.501	29.609	36.862	0.00	0.00
ATOM	4963	HA	GLU	X	330	50.788	30.657	36.768	0.00	0.00
ATOM	4964	CB	GLU	X	330	48.991	29.488	36.946	0.00	0.00
ATOM	4965	HB2	GLU	X	330	48.732	28.444	36.774	0.00	0.00
ATOM	4966	HB3	GLU	X	330	48.566	29.747	37.917	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.205	30.164	35.809	0.00	0.00
ATOM	4968	HG2	GLU	X	330	48.607	29.921	34.825	0.00	0.00

ATOM	4969	HG3	GLU	X	330	47.169	29.853	35.943	0.00	0.00
ATOM	4970	CD	GLU	X	330	48.291	31.667	35.902	0.00	0.00
ATOM	4971	OE1	GLU	X	330	48.639	32.227	36.963	0.00	0.00
ATOM	4972	OE2	GLU	X	330	48.059	32.418	34.940	0.00	0.00
ATOM	4973	C	GLU	X	330	51.115	29.092	38.188	0.00	0.00
ATOM	4974	O	GLU	X	330	51.341	29.926	39.030	0.00	0.00
ATOM	4975	N	GLY	X	331	51.398	27.736	38.397	0.00	0.00
ATOM	4976	H	GLY	X	331	51.412	27.118	37.598	0.00	0.00
ATOM	4977	CA	GLY	X	331	51.811	27.168	39.679	0.00	0.00
ATOM	4978	HA2	GLY	X	331	51.345	27.652	40.500	0.00	0.00
ATOM	4979	HA3	GLY	X	331	51.533	26.143	39.666	0.00	0.00
ATOM	4980	C	GLY	X	331	53.323	27.213	39.975	0.00	0.00
ATOM	4981	O	GLY	X	331	53.678	27.016	41.120	0.00	0.00
ATOM	4982	N	SER	X	332	54.242	27.471	39.048	0.00	0.00
ATOM	4983	H	SER	X	332	53.872	27.724	38.143	0.00	0.00
ATOM	4984	CA	SER	X	332	55.648	27.627	39.371	0.00	0.00
ATOM	4985	HA	SER	X	332	55.988	26.763	39.942	0.00	0.00
ATOM	4986	CB	SER	X	332	56.500	27.643	38.101	0.00	0.00
ATOM	4987	HB2	SER	X	332	57.522	27.752	38.463	0.00	0.00
ATOM	4988	HB3	SER	X	332	56.422	26.700	37.559	0.00	0.00
ATOM	4989	OG	SER	X	332	56.123	28.712	37.225	0.00	0.00
ATOM	4990	HG	SER	X	332	56.781	28.604	36.534	0.00	0.00
ATOM	4991	C	SER	X	332	55.866	28.905	40.356	0.00	0.00
ATOM	4992	O	SER	X	332	56.601	28.760	41.309	0.00	0.00
ATOM	4993	N	TYR	X	333	55.254	30.084	40.120	0.00	0.00
ATOM	4994	H	TYR	X	333	54.803	30.179	39.221	0.00	0.00
ATOM	4995	CA	TYR	X	333	55.577	31.313	40.887	0.00	0.00
ATOM	4996	HA	TYR	X	333	56.587	31.631	40.628	0.00	0.00
ATOM	4997	CB	TYR	X	333	54.592	32.426	40.399	0.00	0.00
ATOM	4998	HB2	TYR	X	333	54.716	32.592	39.329	0.00	0.00
ATOM	4999	HB3	TYR	X	333	53.570	32.079	40.552	0.00	0.00
ATOM	5000	CG	TYR	X	333	54.795	33.687	41.153	0.00	0.00
ATOM	5001	CD1	TYR	X	333	55.376	34.822	40.555	0.00	0.00
ATOM	5002	HD1	TYR	X	333	55.766	34.766	39.550	0.00	0.00
ATOM	5003	CE1	TYR	X	333	55.373	36.107	41.168	0.00	0.00
ATOM	5004	HE1	TYR	X	333	55.904	36.948	40.748	0.00	0.00
ATOM	5005	CZ	TYR	X	333	54.882	36.224	42.518	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.145	37.325	43.289	0.00	0.00
ATOM	5007	HH	TYR	X	333	55.754	37.912	42.834	0.00	0.00
ATOM	5008	CE2	TYR	X	333	54.323	35.088	43.107	0.00	0.00
ATOM	5009	HE2	TYR	X	333	53.784	35.149	44.041	0.00	0.00
ATOM	5010	CD2	TYR	X	333	54.144	33.840	42.398	0.00	0.00
ATOM	5011	HD2	TYR	X	333	53.688	33.037	42.958	0.00	0.00
ATOM	5012	C	TYR	X	333	55.464	31.124	42.390	0.00	0.00
ATOM	5013	O	TYR	X	333	56.336	31.559	43.172	0.00	0.00
ATOM	5014	N	PHE	X	334	54.488	30.379	42.892	0.00	0.00
ATOM	5015	H	PHE	X	334	53.879	29.855	42.281	0.00	0.00
ATOM	5016	CA	PHE	X	334	54.242	30.184	44.292	0.00	0.00
ATOM	5017	HA	PHE	X	334	54.311	31.159	44.775	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.740	29.855	44.368	0.00	0.00
ATOM	5019	HB2	PHE	X	334	52.456	28.983	43.780	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.444	29.758	45.412	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.917	31.069	43.886	0.00	0.00
ATOM	5022	CD1	PHE	X	334	51.463	31.070	42.519	0.00	0.00
ATOM	5023	HD1	PHE	X	334	51.508	30.225	41.848	0.00	0.00
ATOM	5024	CE1	PHE	X	334	50.868	32.237	41.970	0.00	0.00
ATOM	5025	HE1	PHE	X	334	50.564	32.202	40.935	0.00	0.00
ATOM	5026	CZ	PHE	X	334	50.592	33.346	42.814	0.00	0.00
ATOM	5027	HZ	PHE	X	334	50.063	34.171	42.360	0.00	0.00
ATOM	5028	CE2	PHE	X	334	50.944	33.269	44.188	0.00	0.00
ATOM	5029	HE2	PHE	X	334	50.641	34.115	44.788	0.00	0.00
ATOM	5030	CD2	PHE	X	334	51.642	32.167	44.726	0.00	0.00
ATOM	5031	HD2	PHE	X	334	51.773	32.171	45.798	0.00	0.00
ATOM	5032	C	PHE	X	334	55.237	29.280	45.009	0.00	0.00
ATOM	5033	O	PHE	X	334	55.448	29.203	46.217	0.00	0.00
ATOM	5034	N	LEU	X	335	55.987	28.459	44.189	0.00	0.00
ATOM	5035	H	LEU	X	335	55.631	28.357	43.250	0.00	0.00
ATOM	5036	CA	LEU	X	335	56.910	27.432	44.755	0.00	0.00
ATOM	5037	HA	LEU	X	335	56.394	26.910	45.561	0.00	0.00
ATOM	5038	CB	LEU	X	335	57.198	26.411	43.656	0.00	0.00

ATOM	5039	HB2	LEU	X	335	57.584	26.830	42.727	0.00	0.00
ATOM	5040	HB3	LEU	X	335	58.016	25.776	43.997	0.00	0.00
ATOM	5041	CG	LEU	X	335	56.001	25.635	43.174	0.00	0.00
ATOM	5042	HG	LEU	X	335	55.229	26.316	42.816	0.00	0.00
ATOM	5043	CD1	LEU	X	335	56.304	24.647	41.995	0.00	0.00
ATOM	5044	HD11	LEU	X	335	55.487	23.981	41.716	0.00	0.00
ATOM	5045	HD12	LEU	X	335	56.652	25.121	41.077	0.00	0.00
ATOM	5046	HD13	LEU	X	335	57.143	23.987	42.212	0.00	0.00
ATOM	5047	CD2	LEU	X	335	55.355	24.796	44.368	0.00	0.00
ATOM	5048	HD21	LEU	X	335	56.123	24.218	44.883	0.00	0.00
ATOM	5049	HD22	LEU	X	335	54.839	25.462	45.060	0.00	0.00
ATOM	5050	HD23	LEU	X	335	54.715	24.034	43.922	0.00	0.00
ATOM	5051	C	LEU	X	335	58.200	27.938	45.389	0.00	0.00
ATOM	5052	O	LEU	X	335	58.619	27.322	46.339	0.00	0.00
ATOM	5053	N	VAL	X	336	58.795	28.999	44.913	0.00	0.00
ATOM	5054	H	VAL	X	336	58.331	29.404	44.112	0.00	0.00
ATOM	5055	CA	VAL	X	336	60.107	29.533	45.349	0.00	0.00
ATOM	5056	HA	VAL	X	336	60.715	28.669	45.618	0.00	0.00
ATOM	5057	CB	VAL	X	336	60.888	30.376	44.250	0.00	0.00
ATOM	5058	HB	VAL	X	336	61.891	30.605	44.607	0.00	0.00
ATOM	5059	CG1	VAL	X	336	61.166	29.557	42.924	0.00	0.00
ATOM	5060	HG11	VAL	X	336	61.654	28.621	43.194	0.00	0.00
ATOM	5061	HG12	VAL	X	336	60.189	29.400	42.466	0.00	0.00
ATOM	5062	HG13	VAL	X	336	61.732	30.125	42.186	0.00	0.00
ATOM	5063	CG2	VAL	X	336	60.291	31.732	43.748	0.00	0.00
ATOM	5064	HG21	VAL	X	336	61.037	32.256	43.151	0.00	0.00
ATOM	5065	HG22	VAL	X	336	59.348	31.573	43.225	0.00	0.00
ATOM	5066	HG23	VAL	X	336	60.219	32.438	44.575	0.00	0.00
ATOM	5067	C	VAL	X	336	59.958	30.297	46.617	0.00	0.00
ATOM	5068	O	VAL	X	336	60.918	30.422	47.308	0.00	0.00
ATOM	5069	N	TYR	X	337	58.703	30.617	47.054	0.00	0.00
ATOM	5070	H	TYR	X	337	57.913	30.438	46.450	0.00	0.00
ATOM	5071	CA	TYR	X	337	58.371	31.116	48.391	0.00	0.00
ATOM	5072	HA	TYR	X	337	59.290	31.560	48.773	0.00	0.00
ATOM	5073	CB	TYR	X	337	57.227	32.150	48.301	0.00	0.00
ATOM	5074	HB2	TYR	X	337	56.401	31.621	47.825	0.00	0.00
ATOM	5075	HB3	TYR	X	337	57.013	32.395	49.342	0.00	0.00
ATOM	5076	CG	TYR	X	337	57.583	33.450	47.606	0.00	0.00
ATOM	5077	CD1	TYR	X	337	58.212	34.452	48.432	0.00	0.00
ATOM	5078	HD1	TYR	X	337	58.425	34.199	49.460	0.00	0.00
ATOM	5079	CE1	TYR	X	337	58.624	35.639	47.878	0.00	0.00
ATOM	5080	HE1	TYR	X	337	59.168	36.282	48.554	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.516	35.949	46.469	0.00	0.00
ATOM	5082	OH	TYR	X	337	59.062	37.102	46.003	0.00	0.00
ATOM	5083	HH	TYR	X	337	59.391	37.589	46.762	0.00	0.00
ATOM	5084	CE2	TYR	X	337	58.026	34.873	45.657	0.00	0.00
ATOM	5085	HE2	TYR	X	337	57.996	34.921	44.578	0.00	0.00
ATOM	5086	CD2	TYR	X	337	57.565	33.687	46.234	0.00	0.00
ATOM	5087	HD2	TYR	X	337	57.157	32.939	45.570	0.00	0.00
ATOM	5088	C	TYR	X	337	57.955	30.142	49.461	0.00	0.00
ATOM	5089	O	TYR	X	337	57.779	30.543	50.626	0.00	0.00
ATOM	5090	N	GLY	X	338	57.712	28.889	49.048	0.00	0.00
ATOM	5091	H	GLY	X	338	57.682	28.796	48.043	0.00	0.00
ATOM	5092	CA	GLY	X	338	56.935	27.929	49.887	0.00	0.00
ATOM	5093	HA2	GLY	X	338	57.061	28.320	50.960	0.00	0.00
ATOM	5094	HA3	GLY	X	338	55.909	27.937	49.486	0.00	0.00
ATOM	5095	C	GLY	X	338	57.289	26.448	49.926	0.00	0.00
ATOM	5096	O	GLY	X	338	56.752	25.749	50.804	0.00	0.00
ATOM	5097	N	ALA	X	339	57.999	25.941	48.926	0.00	0.00
ATOM	5098	H	ALA	X	339	58.298	26.574	48.198	0.00	0.00
ATOM	5099	CA	ALA	X	339	58.088	24.510	48.616	0.00	0.00
ATOM	5100	HA	ALA	X	339	57.285	24.052	49.194	0.00	0.00
ATOM	5101	CB	ALA	X	339	57.711	24.418	47.166	0.00	0.00
ATOM	5102	HB1	ALA	X	339	57.744	23.338	47.022	0.00	0.00
ATOM	5103	HB2	ALA	X	339	56.696	24.816	47.163	0.00	0.00
ATOM	5104	HB3	ALA	X	339	58.345	25.019	46.512	0.00	0.00
ATOM	5105	C	ALA	X	339	59.470	23.943	49.024	0.00	0.00
ATOM	5106	O	ALA	X	339	60.492	24.609	49.060	0.00	0.00
ATOM	5107	N	PRO	X	340	59.447	22.620	49.339	0.00	0.00
ATOM	5108	CD	PRO	X	340	58.302	21.754	49.271	0.00	0.00

ATOM	5109	HD2	PRO	X	340	57.897	21.586	48.273	0.00	0.00
ATOM	5110	HD3	PRO	X	340	57.467	22.150	49.849	0.00	0.00
ATOM	5111	CG	PRO	X	340	58.751	20.433	49.859	0.00	0.00
ATOM	5112	HG2	PRO	X	340	58.920	19.753	49.025	0.00	0.00
ATOM	5113	HG3	PRO	X	340	57.986	19.937	50.456	0.00	0.00
ATOM	5114	CB	PRO	X	340	59.969	20.787	50.703	0.00	0.00
ATOM	5115	HB2	PRO	X	340	60.729	20.006	50.737	0.00	0.00
ATOM	5116	HB3	PRO	X	340	59.538	21.015	51.677	0.00	0.00
ATOM	5117	CA	PRO	X	340	60.523	22.046	50.051	0.00	0.00
ATOM	5118	HA	PRO	X	340	60.812	22.725	50.853	0.00	0.00
ATOM	5119	C	PRO	X	340	61.621	21.696	49.074	0.00	0.00
ATOM	5120	O	PRO	X	340	61.530	20.741	48.354	0.00	0.00
ATOM	5121	N	GLY	X	341	62.716	22.488	49.177	0.00	0.00
ATOM	5122	H	GLY	X	341	62.742	23.121	49.963	0.00	0.00
ATOM	5123	CA	GLY	X	341	63.815	22.484	48.228	0.00	0.00
ATOM	5124	HA2	GLY	X	341	64.633	22.852	48.934	0.00	0.00
ATOM	5125	HA3	GLY	X	341	63.950	21.465	47.886	0.00	0.00
ATOM	5126	C	GLY	X	341	63.678	23.362	47.036	0.00	0.00
ATOM	5127	O	GLY	X	341	64.494	23.277	46.067	0.00	0.00
ATOM	5128	N	PHE	X	342	62.899	24.453	47.094	0.00	0.00
ATOM	5129	H	PHE	X	342	62.449	24.571	47.990	0.00	0.00
ATOM	5130	CA	PHE	X	342	62.703	25.368	45.919	0.00	0.00
ATOM	5131	HA	PHE	X	342	63.299	25.149	45.033	0.00	0.00
ATOM	5132	CB	PHE	X	342	61.250	25.347	45.571	0.00	0.00
ATOM	5133	HB2	PHE	X	342	60.653	25.731	46.398	0.00	0.00
ATOM	5134	HB3	PHE	X	342	61.148	26.121	44.810	0.00	0.00
ATOM	5135	CG	PHE	X	342	60.606	24.084	44.984	0.00	0.00
ATOM	5136	CD1	PHE	X	342	60.257	24.046	43.647	0.00	0.00
ATOM	5137	HD1	PHE	X	342	60.324	24.944	43.051	0.00	0.00
ATOM	5138	CE1	PHE	X	342	59.659	22.865	43.038	0.00	0.00
ATOM	5139	HE1	PHE	X	342	59.307	22.860	42.017	0.00	0.00
ATOM	5140	CZ	PHE	X	342	59.463	21.717	43.875	0.00	0.00
ATOM	5141	HZ	PHE	X	342	58.965	20.894	43.382	0.00	0.00
ATOM	5142	CE2	PHE	X	342	59.819	21.695	45.226	0.00	0.00
ATOM	5143	HE2	PHE	X	342	59.775	20.868	45.919	0.00	0.00
ATOM	5144	CD2	PHE	X	342	60.442	22.875	45.806	0.00	0.00
ATOM	5145	HD2	PHE	X	342	60.697	22.877	46.856	0.00	0.00
ATOM	5146	C	PHE	X	342	63.086	26.791	46.323	0.00	0.00
ATOM	5147	O	PHE	X	342	62.722	27.231	47.395	0.00	0.00
ATOM	5148	N	SER	X	343	63.799	27.497	45.458	0.00	0.00
ATOM	5149	H	SER	X	343	64.083	27.097	44.576	0.00	0.00
ATOM	5150	CA	SER	X	343	64.281	28.832	45.762	0.00	0.00
ATOM	5151	HA	SER	X	343	63.472	29.475	46.108	0.00	0.00
ATOM	5152	CB	SER	X	343	65.255	28.800	46.921	0.00	0.00
ATOM	5153	HB2	SER	X	343	64.788	28.719	47.902	0.00	0.00
ATOM	5154	HB3	SER	X	343	65.874	27.908	46.822	0.00	0.00
ATOM	5155	OG	SER	X	343	66.138	29.891	46.949	0.00	0.00
ATOM	5156	HG	SER	X	343	66.606	29.944	47.786	0.00	0.00
ATOM	5157	C	SER	X	343	64.689	29.495	44.447	0.00	0.00
ATOM	5158	O	SER	X	343	65.395	28.917	43.629	0.00	0.00
ATOM	5159	N	LYS	X	344	64.545	30.813	44.308	0.00	0.00
ATOM	5160	H	LYS	X	344	63.880	31.335	44.861	0.00	0.00
ATOM	5161	CA	LYS	X	344	65.030	31.558	43.147	0.00	0.00
ATOM	5162	HA	LYS	X	344	64.730	31.043	42.235	0.00	0.00
ATOM	5163	CB	LYS	X	344	64.405	33.002	43.172	0.00	0.00
ATOM	5164	HB2	LYS	X	344	64.633	33.315	42.153	0.00	0.00
ATOM	5165	HB3	LYS	X	344	63.320	32.925	43.233	0.00	0.00
ATOM	5166	CG	LYS	X	344	64.821	34.018	44.318	0.00	0.00
ATOM	5167	HG2	LYS	X	344	64.065	34.778	44.511	0.00	0.00
ATOM	5168	HG3	LYS	X	344	64.945	33.474	45.254	0.00	0.00
ATOM	5169	CD	LYS	X	344	66.037	34.833	44.029	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.940	34.229	44.116	0.00	0.00
ATOM	5171	HD3	LYS	X	344	65.752	35.409	43.149	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.187	35.899	45.175	0.00	0.00
ATOM	5173	HE2	LYS	X	344	65.197	36.287	45.415	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.499	35.434	46.110	0.00	0.00
ATOM	5175	NZ	LYS	X	344	67.232	36.913	44.889	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	67.027	37.488	44.084	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	67.318	37.644	45.581	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.138	36.523	44.672	0.00	0.00

ATOM	5179	C	LYS	X	344	66.621	31.602	43.159	0.00	0.00
ATOM	5180	O	LYS	X	344	67.215	31.982	42.143	0.00	0.00
ATOM	5181	N	ASP	X	345	67.290	31.208	44.223	0.00	0.00
ATOM	5182	H	ASP	X	345	66.721	30.963	45.020	0.00	0.00
ATOM	5183	CA	ASP	X	345	68.782	31.265	44.314	0.00	0.00
ATOM	5184	HA	ASP	X	345	69.188	32.049	43.675	0.00	0.00
ATOM	5185	CB	ASP	X	345	69.098	31.554	45.808	0.00	0.00
ATOM	5186	HB2	ASP	X	345	68.538	32.399	46.208	0.00	0.00
ATOM	5187	HB3	ASP	X	345	68.901	30.688	46.439	0.00	0.00
ATOM	5188	CG	ASP	X	345	70.595	31.780	46.025	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.047	32.754	45.455	0.00	0.00
ATOM	5190	OD2	ASP	X	345	71.241	31.191	46.920	0.00	0.00
ATOM	5191	C	ASP	X	345	69.468	29.866	44.045	0.00	0.00
ATOM	5192	O	ASP	X	345	70.623	29.858	43.645	0.00	0.00
ATOM	5193	N	ASN	X	346	68.751	28.751	44.380	0.00	0.00
ATOM	5194	H	ASN	X	346	67.776	28.892	44.605	0.00	0.00
ATOM	5195	CA	ASN	X	346	69.318	27.409	44.345	0.00	0.00
ATOM	5196	HA	ASN	X	346	70.407	27.401	44.370	0.00	0.00
ATOM	5197	CB	ASN	X	346	68.834	26.643	45.646	0.00	0.00
ATOM	5198	HB2	ASN	X	346	69.474	25.783	45.842	0.00	0.00
ATOM	5199	HB3	ASN	X	346	68.901	27.355	46.468	0.00	0.00
ATOM	5200	CG	ASN	X	346	67.385	26.105	45.528	0.00	0.00
ATOM	5201	OD1	ASN	X	346	66.687	26.427	44.577	0.00	0.00
ATOM	5202	ND2	ASN	X	346	66.890	25.399	46.519	0.00	0.00
ATOM	5203	HD21	ASN	X	346	65.902	25.193	46.565	0.00	0.00
ATOM	5204	HD22	ASN	X	346	67.484	25.265	47.325	0.00	0.00
ATOM	5205	C	ASN	X	346	68.917	26.682	42.985	0.00	0.00
ATOM	5206	O	ASN	X	346	68.317	27.329	42.119	0.00	0.00
ATOM	5207	N	GLU	X	347	69.199	25.377	42.811	0.00	0.00
ATOM	5208	H	GLU	X	347	69.563	24.979	43.665	0.00	0.00
ATOM	5209	CA	GLU	X	347	68.833	24.534	41.660	0.00	0.00
ATOM	5210	HA	GLU	X	347	68.828	25.219	40.812	0.00	0.00
ATOM	5211	CB	GLU	X	347	69.888	23.416	41.472	0.00	0.00
ATOM	5212	HB2	GLU	X	347	69.988	22.781	42.352	0.00	0.00
ATOM	5213	HB3	GLU	X	347	69.482	22.742	40.718	0.00	0.00
ATOM	5214	CG	GLU	X	347	71.274	23.957	41.070	0.00	0.00
ATOM	5215	HG2	GLU	X	347	71.913	23.225	40.577	0.00	0.00
ATOM	5216	HG3	GLU	X	347	71.136	24.685	40.271	0.00	0.00
ATOM	5217	CD	GLU	X	347	72.072	24.502	42.245	0.00	0.00
ATOM	5218	OE1	GLU	X	347	72.207	23.745	43.231	0.00	0.00
ATOM	5219	OE2	GLU	X	347	72.541	25.660	42.157	0.00	0.00
ATOM	5220	C	GLU	X	347	67.448	23.909	41.696	0.00	0.00
ATOM	5221	O	GLU	X	347	67.099	23.221	40.683	0.00	0.00
ATOM	5222	N	SER	X	348	66.668	24.084	42.765	0.00	0.00
ATOM	5223	H	SER	X	348	67.010	24.570	43.581	0.00	0.00
ATOM	5224	CA	SER	X	348	65.338	23.418	42.911	0.00	0.00
ATOM	5225	HA	SER	X	348	65.063	23.554	43.957	0.00	0.00
ATOM	5226	CB	SER	X	348	64.186	24.025	42.078	0.00	0.00
ATOM	5227	HB2	SER	X	348	64.356	23.985	41.002	0.00	0.00
ATOM	5228	HB3	SER	X	348	63.333	23.414	42.371	0.00	0.00
ATOM	5229	OG	SER	X	348	64.066	25.381	42.463	0.00	0.00
ATOM	5230	HG	SER	X	348	64.882	25.756	42.124	0.00	0.00
ATOM	5231	C	SER	X	348	65.324	21.864	42.682	0.00	0.00
ATOM	5232	O	SER	X	348	64.372	21.310	42.104	0.00	0.00
ATOM	5233	N	LEU	X	349	66.390	21.100	43.027	0.00	0.00
ATOM	5234	H	LEU	X	349	67.100	21.510	43.617	0.00	0.00
ATOM	5235	CA	LEU	X	349	66.503	19.655	42.896	0.00	0.00
ATOM	5236	HA	LEU	X	349	66.008	19.419	41.954	0.00	0.00
ATOM	5237	CB	LEU	X	349	68.065	19.298	42.996	0.00	0.00
ATOM	5238	HB2	LEU	X	349	68.664	19.812	42.245	0.00	0.00
ATOM	5239	HB3	LEU	X	349	68.448	19.660	43.950	0.00	0.00
ATOM	5240	CG	LEU	X	349	68.445	17.730	42.866	0.00	0.00
ATOM	5241	HG	LEU	X	349	69.534	17.729	42.836	0.00	0.00
ATOM	5242	CD1	LEU	X	349	68.140	16.907	44.127	0.00	0.00
ATOM	5243	HD11	LEU	X	349	67.073	16.685	44.101	0.00	0.00
ATOM	5244	HD12	LEU	X	349	68.707	15.980	44.047	0.00	0.00
ATOM	5245	HD13	LEU	X	349	68.408	17.579	44.942	0.00	0.00
ATOM	5246	CD2	LEU	X	349	67.863	17.065	41.628	0.00	0.00
ATOM	5247	HD21	LEU	X	349	66.838	16.737	41.801	0.00	0.00
ATOM	5248	HD22	LEU	X	349	67.826	17.628	40.695	0.00	0.00

ATOM	5249	HD23	LEU	X	349	68.261	16.065	41.459	0.00	0.00
ATOM	5250	C	LEU	X	349	65.661	18.994	44.010	0.00	0.00
ATOM	5251	O	LEU	X	349	65.897	19.387	45.171	0.00	0.00
ATOM	5252	N	ILE	X	350	64.830	18.032	43.696	0.00	0.00
ATOM	5253	H	ILE	X	350	64.788	17.757	42.725	0.00	0.00
ATOM	5254	CA	ILE	X	350	64.148	17.181	44.625	0.00	0.00
ATOM	5255	HA	ILE	X	350	64.692	17.235	45.567	0.00	0.00
ATOM	5256	CB	ILE	X	350	62.715	17.639	44.924	0.00	0.00
ATOM	5257	HB	ILE	X	350	62.411	16.993	45.748	0.00	0.00
ATOM	5258	CG2	ILE	X	350	62.637	19.054	45.514	0.00	0.00
ATOM	5259	HG21	ILE	X	350	63.297	19.105	46.380	0.00	0.00
ATOM	5260	HG22	ILE	X	350	62.890	19.757	44.720	0.00	0.00
ATOM	5261	HG23	ILE	X	350	61.630	19.411	45.730	0.00	0.00
ATOM	5262	CG1	ILE	X	350	61.704	17.440	43.748	0.00	0.00
ATOM	5263	HG12	ILE	X	350	62.223	17.849	42.881	0.00	0.00
ATOM	5264	HG13	ILE	X	350	61.609	16.364	43.604	0.00	0.00
ATOM	5265	CD1	ILE	X	350	60.314	18.067	43.882	0.00	0.00
ATOM	5266	HD11	ILE	X	350	59.952	17.817	44.880	0.00	0.00
ATOM	5267	HD12	ILE	X	350	60.414	19.145	43.761	0.00	0.00
ATOM	5268	HD13	ILE	X	350	59.660	17.621	43.132	0.00	0.00
ATOM	5269	C	ILE	X	350	64.184	15.691	44.264	0.00	0.00
ATOM	5270	O	ILE	X	350	64.199	15.384	43.022	0.00	0.00
ATOM	5271	N	SER	X	351	64.162	14.786	45.227	0.00	0.00
ATOM	5272	H	SER	X	351	64.221	15.146	46.169	0.00	0.00
ATOM	5273	CA	SER	X	351	63.888	13.363	45.184	0.00	0.00
ATOM	5274	HA	SER	X	351	64.060	13.039	44.158	0.00	0.00
ATOM	5275	CB	SER	X	351	64.859	12.567	46.097	0.00	0.00
ATOM	5276	HB2	SER	X	351	64.836	11.523	45.785	0.00	0.00
ATOM	5277	HB3	SER	X	351	65.853	12.954	45.874	0.00	0.00
ATOM	5278	OG	SER	X	351	64.784	12.710	47.473	0.00	0.00
ATOM	5279	HG	SER	X	351	64.703	13.634	47.720	0.00	0.00
ATOM	5280	C	SER	X	351	62.439	13.081	45.549	0.00	0.00
ATOM	5281	O	SER	X	351	61.661	13.928	46.107	0.00	0.00
ATOM	5282	N	ARG	X	352	62.002	11.789	45.348	0.00	0.00
ATOM	5283	H	ARG	X	352	62.619	11.084	44.969	0.00	0.00
ATOM	5284	CA	ARG	X	352	60.646	11.356	45.647	0.00	0.00
ATOM	5285	HA	ARG	X	352	59.953	11.876	44.986	0.00	0.00
ATOM	5286	CB	ARG	X	352	60.548	9.795	45.493	0.00	0.00
ATOM	5287	HB2	ARG	X	352	61.071	9.436	44.607	0.00	0.00
ATOM	5288	HB3	ARG	X	352	60.984	9.268	46.342	0.00	0.00
ATOM	5289	CG	ARG	X	352	59.101	9.309	45.285	0.00	0.00
ATOM	5290	HG2	ARG	X	352	59.090	8.219	45.289	0.00	0.00
ATOM	5291	HG3	ARG	X	352	58.547	9.622	46.169	0.00	0.00
ATOM	5292	CD	ARG	X	352	58.393	9.925	44.108	0.00	0.00
ATOM	5293	HD2	ARG	X	352	58.368	11.004	44.258	0.00	0.00
ATOM	5294	HD3	ARG	X	352	58.979	9.631	43.237	0.00	0.00
ATOM	5295	NE	ARG	X	352	57.064	9.346	44.080	0.00	0.00
ATOM	5296	HE	ARG	X	352	56.549	9.163	44.929	0.00	0.00
ATOM	5297	CZ	ARG	X	352	56.406	9.057	42.943	0.00	0.00
ATOM	5298	NH1	ARG	X	352	56.858	9.099	41.759	0.00	0.00
ATOM	5299	HH11	ARG	X	352	57.837	9.216	41.537	0.00	0.00
ATOM	5300	HH12	ARG	X	352	56.252	8.726	41.042	0.00	0.00
ATOM	5301	NH2	ARG	X	352	55.108	8.824	43.115	0.00	0.00
ATOM	5302	HH21	ARG	X	352	54.798	8.832	44.076	0.00	0.00
ATOM	5303	HH22	ARG	X	352	54.405	8.606	42.423	0.00	0.00
ATOM	5304	C	ARG	X	352	60.176	11.787	47.118	0.00	0.00
ATOM	5305	O	ARG	X	352	59.036	12.210	47.234	0.00	0.00
ATOM	5306	N	ALA	X	353	60.983	11.637	48.161	0.00	0.00
ATOM	5307	H	ALA	X	353	61.832	11.108	48.020	0.00	0.00
ATOM	5308	CA	ALA	X	353	60.584	11.876	49.591	0.00	0.00
ATOM	5309	HA	ALA	X	353	59.656	11.317	49.709	0.00	0.00
ATOM	5310	CB	ALA	X	353	61.712	11.268	50.480	0.00	0.00
ATOM	5311	HB1	ALA	X	353	62.668	11.579	50.059	0.00	0.00
ATOM	5312	HB2	ALA	X	353	61.556	11.637	51.494	0.00	0.00
ATOM	5313	HB3	ALA	X	353	61.734	10.189	50.627	0.00	0.00
ATOM	5314	C	ALA	X	353	60.235	13.340	49.828	0.00	0.00
ATOM	5315	O	ALA	X	353	59.269	13.618	50.555	0.00	0.00
ATOM	5316	N	GLU	X	354	60.885	14.237	49.043	0.00	0.00
ATOM	5317	H	GLU	X	354	61.416	13.934	48.239	0.00	0.00
ATOM	5318	CA	GLU	X	354	60.755	15.741	49.185	0.00	0.00

ATOM	5319	HA	GLU	X	354	60.560	16.044	50.213	0.00	0.00
ATOM	5320	CB	GLU	X	354	62.069	16.482	48.729	0.00	0.00
ATOM	5321	HB2	GLU	X	354	62.291	15.979	47.788	0.00	0.00
ATOM	5322	HB3	GLU	X	354	61.752	17.514	48.580	0.00	0.00
ATOM	5323	CG	GLU	X	354	63.271	16.250	49.667	0.00	0.00
ATOM	5324	HG2	GLU	X	354	63.308	16.959	50.494	0.00	0.00
ATOM	5325	HG3	GLU	X	354	63.218	15.219	50.019	0.00	0.00
ATOM	5326	CD	GLU	X	354	64.593	16.344	48.819	0.00	0.00
ATOM	5327	OE1	GLU	X	354	64.848	15.411	48.029	0.00	0.00
ATOM	5328	OE2	GLU	X	354	65.408	17.276	49.023	0.00	0.00
ATOM	5329	C	GLU	X	354	59.606	16.230	48.305	0.00	0.00
ATOM	5330	O	GLU	X	354	58.728	16.943	48.738	0.00	0.00
ATOM	5331	N	PHE	X	355	59.455	15.706	47.063	0.00	0.00
ATOM	5332	H	PHE	X	355	60.155	15.074	46.702	0.00	0.00
ATOM	5333	CA	PHE	X	355	58.262	15.818	46.197	0.00	0.00
ATOM	5334	HA	PHE	X	355	58.243	16.881	45.959	0.00	0.00
ATOM	5335	CB	PHE	X	355	58.479	14.852	45.041	0.00	0.00
ATOM	5336	HB2	PHE	X	355	59.292	15.265	44.445	0.00	0.00
ATOM	5337	HB3	PHE	X	355	58.804	13.917	45.498	0.00	0.00
ATOM	5338	CG	PHE	X	355	57.198	14.749	44.263	0.00	0.00
ATOM	5339	CD1	PHE	X	355	56.753	15.848	43.457	0.00	0.00
ATOM	5340	HD1	PHE	X	355	57.194	16.834	43.447	0.00	0.00
ATOM	5341	CE1	PHE	X	355	55.524	15.723	42.759	0.00	0.00
ATOM	5342	HE1	PHE	X	355	55.107	16.595	42.277	0.00	0.00
ATOM	5343	CZ	PHE	X	355	54.841	14.476	42.851	0.00	0.00
ATOM	5344	HZ	PHE	X	355	53.794	14.452	42.589	0.00	0.00
ATOM	5345	CE2	PHE	X	355	55.344	13.392	43.573	0.00	0.00
ATOM	5346	HE2	PHE	X	355	54.780	12.481	43.711	0.00	0.00
ATOM	5347	CD2	PHE	X	355	56.548	13.509	44.326	0.00	0.00
ATOM	5348	HD2	PHE	X	355	56.944	12.674	44.885	0.00	0.00
ATOM	5349	C	PHE	X	355	56.960	15.546	46.863	0.00	0.00
ATOM	5350	O	PHE	X	355	55.979	16.280	46.540	0.00	0.00
ATOM	5351	N	LEU	X	356	56.815	14.507	47.694	0.00	0.00
ATOM	5352	H	LEU	X	356	57.729	14.088	47.788	0.00	0.00
ATOM	5353	CA	LEU	X	356	55.579	14.071	48.392	0.00	0.00
ATOM	5354	HA	LEU	X	356	54.804	14.133	47.628	0.00	0.00
ATOM	5355	CB	LEU	X	356	55.862	12.666	48.934	0.00	0.00
ATOM	5356	HB2	LEU	X	356	56.109	12.153	48.004	0.00	0.00
ATOM	5357	HB3	LEU	X	356	56.728	12.714	49.594	0.00	0.00
ATOM	5358	CG	LEU	X	356	54.735	12.017	49.792	0.00	0.00
ATOM	5359	HG	LEU	X	356	54.543	12.638	50.668	0.00	0.00
ATOM	5360	CD1	LEU	X	356	53.347	11.995	49.086	0.00	0.00
ATOM	5361	HD11	LEU	X	356	53.420	11.261	48.284	0.00	0.00
ATOM	5362	HD12	LEU	X	356	52.630	11.647	49.830	0.00	0.00
ATOM	5363	HD13	LEU	X	356	53.088	12.977	48.691	0.00	0.00
ATOM	5364	CD2	LEU	X	356	55.050	10.598	50.257	0.00	0.00
ATOM	5365	HD21	LEU	X	356	54.935	9.842	49.480	0.00	0.00
ATOM	5366	HD22	LEU	X	356	56.014	10.407	50.729	0.00	0.00
ATOM	5367	HD23	LEU	X	356	54.351	10.311	51.042	0.00	0.00
ATOM	5368	C	LEU	X	356	55.133	15.150	49.431	0.00	0.00
ATOM	5369	O	LEU	X	356	54.065	15.665	49.404	0.00	0.00
ATOM	5370	N	ALA	X	357	56.127	15.609	50.265	0.00	0.00
ATOM	5371	H	ALA	X	357	57.017	15.337	49.873	0.00	0.00
ATOM	5372	CA	ALA	X	357	55.944	16.762	51.118	0.00	0.00
ATOM	5373	HA	ALA	X	357	55.140	16.554	51.823	0.00	0.00
ATOM	5374	CB	ALA	X	357	57.193	16.989	51.898	0.00	0.00
ATOM	5375	HB1	ALA	X	357	57.599	16.069	52.319	0.00	0.00
ATOM	5376	HB2	ALA	X	357	57.988	17.373	51.259	0.00	0.00
ATOM	5377	HB3	ALA	X	357	57.037	17.770	52.641	0.00	0.00
ATOM	5378	C	ALA	X	357	55.562	18.067	50.300	0.00	0.00
ATOM	5379	O	ALA	X	357	54.743	18.920	50.687	0.00	0.00
ATOM	5380	N	GLY	X	358	56.139	18.205	49.085	0.00	0.00
ATOM	5381	H	GLY	X	358	56.742	17.463	48.759	0.00	0.00
ATOM	5382	CA	GLY	X	358	55.789	19.342	48.249	0.00	0.00
ATOM	5383	HA2	GLY	X	358	56.164	20.296	48.767	0.00	0.00
ATOM	5384	HA3	GLY	X	358	56.419	19.410	47.316	0.00	0.00
ATOM	5385	C	GLY	X	358	54.310	19.389	47.673	0.00	0.00
ATOM	5386	O	GLY	X	358	53.727	20.453	47.665	0.00	0.00
ATOM	5387	N	VAL	X	359	53.805	18.225	47.334	0.00	0.00
ATOM	5388	H	VAL	X	359	54.391	17.403	47.301	0.00	0.00

ATOM	5389	CA	VAL	X	359	52.343	18.107	47.278	0.00	0.00
ATOM	5390	HA	VAL	X	359	51.934	18.906	46.659	0.00	0.00
ATOM	5391	CB	VAL	X	359	51.851	16.755	46.577	0.00	0.00
ATOM	5392	HB	VAL	X	359	52.397	15.940	47.051	0.00	0.00
ATOM	5393	CG1	VAL	X	359	50.356	16.413	46.617	0.00	0.00
ATOM	5394	HG11	VAL	X	359	49.682	17.168	46.213	0.00	0.00
ATOM	5395	HG12	VAL	X	359	50.283	15.476	46.066	0.00	0.00
ATOM	5396	HG13	VAL	X	359	50.137	16.302	47.679	0.00	0.00
ATOM	5397	CG2	VAL	X	359	52.331	16.672	45.081	0.00	0.00
ATOM	5398	HG21	VAL	X	359	52.022	17.596	44.592	0.00	0.00
ATOM	5399	HG22	VAL	X	359	53.419	16.731	45.030	0.00	0.00
ATOM	5400	HG23	VAL	X	359	52.000	15.812	44.499	0.00	0.00
ATOM	5401	C	VAL	X	359	51.767	18.340	48.626	0.00	0.00
ATOM	5402	O	VAL	X	359	50.727	19.057	48.583	0.00	0.00
ATOM	5403	N	ARG	X	360	52.289	17.900	49.813	0.00	0.00
ATOM	5404	H	ARG	X	360	53.092	17.288	49.837	0.00	0.00
ATOM	5405	CA	ARG	X	360	51.505	18.108	51.038	0.00	0.00
ATOM	5406	HA	ARG	X	360	50.512	17.711	50.828	0.00	0.00
ATOM	5407	CB	ARG	X	360	52.200	17.422	52.229	0.00	0.00
ATOM	5408	HB2	ARG	X	360	53.241	17.714	52.367	0.00	0.00
ATOM	5409	HB3	ARG	X	360	51.615	17.728	53.096	0.00	0.00
ATOM	5410	CG	ARG	X	360	52.080	15.940	52.166	0.00	0.00
ATOM	5411	HG2	ARG	X	360	52.295	15.532	51.179	0.00	0.00
ATOM	5412	HG3	ARG	X	360	52.932	15.543	52.719	0.00	0.00
ATOM	5413	CD	ARG	X	360	50.695	15.370	52.511	0.00	0.00
ATOM	5414	HD2	ARG	X	360	49.997	16.039	52.007	0.00	0.00
ATOM	5415	HD3	ARG	X	360	50.617	14.317	52.241	0.00	0.00
ATOM	5416	NE	ARG	X	360	50.316	15.467	53.951	0.00	0.00
ATOM	5417	HE	ARG	X	360	49.827	16.301	54.244	0.00	0.00
ATOM	5418	CZ	ARG	X	360	50.372	14.481	54.821	0.00	0.00
ATOM	5419	NH1	ARG	X	360	50.815	13.257	54.603	0.00	0.00
ATOM	5420	HH11	ARG	X	360	51.191	12.934	53.722	0.00	0.00
ATOM	5421	HH12	ARG	X	360	50.864	12.679	55.429	0.00	0.00
ATOM	5422	NH2	ARG	X	360	49.977	14.653	56.066	0.00	0.00
ATOM	5423	HH21	ARG	X	360	49.768	15.596	56.362	0.00	0.00
ATOM	5424	HH22	ARG	X	360	50.234	13.996	56.788	0.00	0.00
ATOM	5425	C	ARG	X	360	51.282	19.568	51.405	0.00	0.00
ATOM	5426	O	ARG	X	360	50.263	19.914	52.098	0.00	0.00
ATOM	5427	N	VAL	X	361	52.326	20.451	51.123	0.00	0.00
ATOM	5428	H	VAL	X	361	53.181	20.014	50.811	0.00	0.00
ATOM	5429	CA	VAL	X	361	52.194	21.925	51.176	0.00	0.00
ATOM	5430	HA	VAL	X	361	51.496	22.209	51.964	0.00	0.00
ATOM	5431	CB	VAL	X	361	53.610	22.615	51.508	0.00	0.00
ATOM	5432	HB	VAL	X	361	53.517	23.695	51.624	0.00	0.00
ATOM	5433	CG1	VAL	X	361	54.217	22.159	52.833	0.00	0.00
ATOM	5434	HG11	VAL	X	361	55.248	22.497	52.946	0.00	0.00
ATOM	5435	HG12	VAL	X	361	53.627	22.467	53.696	0.00	0.00
ATOM	5436	HG13	VAL	X	361	54.194	21.080	52.679	0.00	0.00
ATOM	5437	CG2	VAL	X	361	54.603	22.575	50.321	0.00	0.00
ATOM	5438	HG21	VAL	X	361	55.541	23.026	50.645	0.00	0.00
ATOM	5439	HG22	VAL	X	361	54.820	21.514	50.199	0.00	0.00
ATOM	5440	HG23	VAL	X	361	54.194	23.006	49.407	0.00	0.00
ATOM	5441	C	VAL	X	361	51.497	22.568	49.944	0.00	0.00
ATOM	5442	O	VAL	X	361	50.826	23.588	50.053	0.00	0.00
ATOM	5443	N	GLY	X	362	51.555	21.938	48.744	0.00	0.00
ATOM	5444	H	GLY	X	362	52.171	21.139	48.697	0.00	0.00
ATOM	5445	CA	GLY	X	362	51.092	22.624	47.493	0.00	0.00
ATOM	5446	HA2	GLY	X	362	51.658	23.538	47.335	0.00	0.00
ATOM	5447	HA3	GLY	X	362	51.416	21.881	46.719	0.00	0.00
ATOM	5448	C	GLY	X	362	49.662	22.791	47.353	0.00	0.00
ATOM	5449	O	GLY	X	362	49.136	23.477	46.479	0.00	0.00
ATOM	5450	N	VAL	X	363	48.848	22.084	48.169	0.00	0.00
ATOM	5451	H	VAL	X	363	49.293	21.692	48.986	0.00	0.00
ATOM	5452	CA	VAL	X	363	47.400	22.006	48.283	0.00	0.00
ATOM	5453	HA	VAL	X	363	46.988	22.818	47.683	0.00	0.00
ATOM	5454	CB	VAL	X	363	46.748	20.748	47.612	0.00	0.00
ATOM	5455	HB	VAL	X	363	46.737	20.020	48.423	0.00	0.00
ATOM	5456	CG1	VAL	X	363	45.327	20.949	47.154	0.00	0.00
ATOM	5457	HG11	VAL	X	363	45.008	20.018	46.686	0.00	0.00
ATOM	5458	HG12	VAL	X	363	44.684	21.143	48.013	0.00	0.00

ATOM	5459	HG13	VAL	X	363	45.247	21.774	46.447	0.00	0.00
ATOM	5460	CG2	VAL	X	363	47.648	20.287	46.441	0.00	0.00
ATOM	5461	HG21	VAL	X	363	47.178	19.395	46.025	0.00	0.00
ATOM	5462	HG22	VAL	X	363	47.636	21.109	45.726	0.00	0.00
ATOM	5463	HG23	VAL	X	363	48.607	20.059	46.907	0.00	0.00
ATOM	5464	C	VAL	X	363	47.134	22.081	49.808	0.00	0.00
ATOM	5465	O	VAL	X	363	47.874	21.491	50.603	0.00	0.00
ATOM	5466	N	PRO	X	364	46.054	22.850	50.178	0.00	0.00
ATOM	5467	CD	PRO	X	364	45.137	23.638	49.261	0.00	0.00
ATOM	5468	HD2	PRO	X	364	44.597	22.930	48.632	0.00	0.00
ATOM	5469	HD3	PRO	X	364	45.795	24.342	48.753	0.00	0.00
ATOM	5470	CG	PRO	X	364	44.208	24.452	50.148	0.00	0.00
ATOM	5471	HG2	PRO	X	364	43.197	24.059	50.041	0.00	0.00
ATOM	5472	HG3	PRO	X	364	44.105	25.527	49.994	0.00	0.00
ATOM	5473	CB	PRO	X	364	44.710	24.270	51.568	0.00	0.00
ATOM	5474	HB2	PRO	X	364	43.909	24.372	52.300	0.00	0.00
ATOM	5475	HB3	PRO	X	364	45.409	25.095	51.705	0.00	0.00
ATOM	5476	CA	PRO	X	364	45.502	22.968	51.531	0.00	0.00
ATOM	5477	HA	PRO	X	364	46.337	23.065	52.225	0.00	0.00
ATOM	5478	C	PRO	X	364	44.519	21.901	51.934	0.00	0.00
ATOM	5479	O	PRO	X	364	43.888	21.300	51.059	0.00	0.00
ATOM	5480	N	GLN	X	365	44.518	21.547	53.223	0.00	0.00
ATOM	5481	H	GLN	X	365	45.164	22.054	53.810	0.00	0.00
ATOM	5482	CA	GLN	X	365	43.712	20.500	53.895	0.00	0.00
ATOM	5483	HA	GLN	X	365	43.854	20.563	54.974	0.00	0.00
ATOM	5484	CB	GLN	X	365	42.228	20.670	53.563	0.00	0.00
ATOM	5485	HB2	GLN	X	365	42.017	21.708	53.817	0.00	0.00
ATOM	5486	HB3	GLN	X	365	42.033	20.585	52.494	0.00	0.00
ATOM	5487	CG	GLN	X	365	41.219	19.711	54.363	0.00	0.00
ATOM	5488	HG2	GLN	X	365	41.215	18.651	54.111	0.00	0.00
ATOM	5489	HG3	GLN	X	365	41.454	19.888	55.412	0.00	0.00
ATOM	5490	CD	GLN	X	365	39.766	20.061	54.248	0.00	0.00
ATOM	5491	OE1	GLN	X	365	39.402	20.792	53.392	0.00	0.00
ATOM	5492	NE2	GLN	X	365	38.925	19.594	55.101	0.00	0.00
ATOM	5493	HE21	GLN	X	365	37.960	19.848	54.943	0.00	0.00
ATOM	5494	HE22	GLN	X	365	39.260	18.999	55.845	0.00	0.00
ATOM	5495	C	GLN	X	365	44.201	19.084	53.557	0.00	0.00
ATOM	5496	O	GLN	X	365	44.013	18.201	54.360	0.00	0.00
ATOM	5497	N	VAL	X	366	44.693	18.846	52.345	0.00	0.00
ATOM	5498	H	VAL	X	366	44.724	19.665	51.755	0.00	0.00
ATOM	5499	CA	VAL	X	366	45.230	17.630	51.684	0.00	0.00
ATOM	5500	HA	VAL	X	366	44.387	17.145	51.192	0.00	0.00
ATOM	5501	CB	VAL	X	366	46.377	17.952	50.636	0.00	0.00
ATOM	5502	HB	VAL	X	366	46.107	18.800	50.007	0.00	0.00
ATOM	5503	CG1	VAL	X	366	47.741	18.435	51.201	0.00	0.00
ATOM	5504	HG11	VAL	X	366	48.333	18.778	50.352	0.00	0.00
ATOM	5505	HG12	VAL	X	366	47.691	19.271	51.899	0.00	0.00
ATOM	5506	HG13	VAL	X	366	48.264	17.665	51.768	0.00	0.00
ATOM	5507	CG2	VAL	X	366	46.615	16.759	49.732	0.00	0.00
ATOM	5508	HG21	VAL	X	366	47.635	16.741	49.348	0.00	0.00
ATOM	5509	HG22	VAL	X	366	46.473	15.803	50.236	0.00	0.00
ATOM	5510	HG23	VAL	X	366	45.867	16.859	48.946	0.00	0.00
ATOM	5511	C	VAL	X	366	45.752	16.519	52.714	0.00	0.00
ATOM	5512	O	VAL	X	366	46.701	16.716	53.509	0.00	0.00
ATOM	5513	N	SER	X	367	45.059	15.358	52.735	0.00	0.00
ATOM	5514	H	SER	X	367	44.292	15.215	52.094	0.00	0.00
ATOM	5515	CA	SER	X	367	45.358	14.222	53.630	0.00	0.00
ATOM	5516	HA	SER	X	367	45.663	14.587	54.610	0.00	0.00
ATOM	5517	CB	SER	X	367	44.127	13.326	53.821	0.00	0.00
ATOM	5518	HB2	SER	X	367	44.242	12.547	54.575	0.00	0.00
ATOM	5519	HB3	SER	X	367	43.280	13.956	54.091	0.00	0.00
ATOM	5520	OG	SER	X	367	43.685	12.589	52.652	0.00	0.00
ATOM	5521	HG	SER	X	367	42.814	12.254	52.876	0.00	0.00
ATOM	5522	C	SER	X	367	46.557	13.384	53.039	0.00	0.00
ATOM	5523	O	SER	X	367	47.076	13.769	51.988	0.00	0.00
ATOM	5524	N	ASP	X	368	47.057	12.298	53.702	0.00	0.00
ATOM	5525	H	ASP	X	368	46.651	12.113	54.608	0.00	0.00
ATOM	5526	CA	ASP	X	368	48.045	11.352	53.113	0.00	0.00
ATOM	5527	HA	ASP	X	368	48.932	11.947	52.893	0.00	0.00
ATOM	5528	CB	ASP	X	368	48.489	10.394	54.231	0.00	0.00

ATOM	5529	HB2	ASP	X	368	48.871	11.122	54.947	0.00	0.00
ATOM	5530	HB3	ASP	X	368	47.543	10.032	54.632	0.00	0.00
ATOM	5531	CG	ASP	X	368	49.500	9.301	53.911	0.00	0.00
ATOM	5532	OD1	ASP	X	368	49.319	8.166	54.303	0.00	0.00
ATOM	5533	OD2	ASP	X	368	50.445	9.646	53.185	0.00	0.00
ATOM	5534	C	ASP	X	368	47.473	10.632	51.848	0.00	0.00
ATOM	5535	O	ASP	X	368	48.160	10.279	50.916	0.00	0.00
ATOM	5536	N	LEU	X	369	46.135	10.404	51.914	0.00	0.00
ATOM	5537	H	LEU	X	369	45.659	10.974	52.599	0.00	0.00
ATOM	5538	CA	LEU	X	369	45.325	9.800	50.821	0.00	0.00
ATOM	5539	HA	LEU	X	369	46.002	9.029	50.455	0.00	0.00
ATOM	5540	CB	LEU	X	369	44.008	9.099	51.451	0.00	0.00
ATOM	5541	HB2	LEU	X	369	43.327	9.819	51.904	0.00	0.00
ATOM	5542	HB3	LEU	X	369	43.487	8.704	50.579	0.00	0.00
ATOM	5543	CG	LEU	X	369	44.305	8.041	52.463	0.00	0.00
ATOM	5544	HG	LEU	X	369	43.421	7.416	52.594	0.00	0.00
ATOM	5545	CD1	LEU	X	369	45.389	7.087	51.999	0.00	0.00
ATOM	5546	HD11	LEU	X	369	45.239	6.837	50.949	0.00	0.00
ATOM	5547	HD12	LEU	X	369	46.356	7.560	52.170	0.00	0.00
ATOM	5548	HD13	LEU	X	369	45.315	6.187	52.610	0.00	0.00
ATOM	5549	CD2	LEU	X	369	44.587	8.455	53.959	0.00	0.00
ATOM	5550	HD21	LEU	X	369	43.784	9.112	54.291	0.00	0.00
ATOM	5551	HD22	LEU	X	369	44.848	7.562	54.527	0.00	0.00
ATOM	5552	HD23	LEU	X	369	45.456	9.107	54.043	0.00	0.00
ATOM	5553	C	LEU	X	369	44.891	10.740	49.730	0.00	0.00
ATOM	5554	O	LEU	X	369	44.801	10.242	48.612	0.00	0.00
ATOM	5555	N	ALA	X	370	44.748	12.025	50.052	0.00	0.00
ATOM	5556	H	ALA	X	370	44.750	12.275	51.031	0.00	0.00
ATOM	5557	CA	ALA	X	370	44.540	13.047	49.023	0.00	0.00
ATOM	5558	HA	ALA	X	370	43.924	12.664	48.210	0.00	0.00
ATOM	5559	CB	ALA	X	370	43.698	14.107	49.637	0.00	0.00
ATOM	5560	HB1	ALA	X	370	42.787	13.739	50.111	0.00	0.00
ATOM	5561	HB2	ALA	X	370	44.303	14.691	50.329	0.00	0.00
ATOM	5562	HB3	ALA	X	370	43.382	14.796	48.854	0.00	0.00
ATOM	5563	C	ALA	X	370	45.783	13.572	48.310	0.00	0.00
ATOM	5564	O	ALA	X	370	45.815	13.813	47.072	0.00	0.00
ATOM	5565	N	ALA	X	371	46.907	13.523	49.037	0.00	0.00
ATOM	5566	H	ALA	X	371	46.798	13.280	50.011	0.00	0.00
ATOM	5567	CA	ALA	X	371	48.230	13.545	48.424	0.00	0.00
ATOM	5568	HA	ALA	X	371	48.300	14.396	47.747	0.00	0.00
ATOM	5569	CB	ALA	X	371	49.288	13.690	49.476	0.00	0.00
ATOM	5570	HB1	ALA	X	371	49.072	14.530	50.137	0.00	0.00
ATOM	5571	HB2	ALA	X	371	49.410	12.756	50.025	0.00	0.00
ATOM	5572	HB3	ALA	X	371	50.222	13.891	48.952	0.00	0.00
ATOM	5573	C	ALA	X	371	48.414	12.213	47.608	0.00	0.00
ATOM	5574	O	ALA	X	371	48.570	12.293	46.406	0.00	0.00
ATOM	5575	N	GLU	X	372	48.312	10.983	48.129	0.00	0.00
ATOM	5576	H	GLU	X	372	48.018	10.957	49.094	0.00	0.00
ATOM	5577	CA	GLU	X	372	48.380	9.800	47.266	0.00	0.00
ATOM	5578	HA	GLU	X	372	49.388	9.785	46.849	0.00	0.00
ATOM	5579	CB	GLU	X	372	48.223	8.575	48.178	0.00	0.00
ATOM	5580	HB2	GLU	X	372	49.083	8.529	48.845	0.00	0.00
ATOM	5581	HB3	GLU	X	372	47.320	8.683	48.780	0.00	0.00
ATOM	5582	CG	GLU	X	372	48.003	7.190	47.425	0.00	0.00
ATOM	5583	HG2	GLU	X	372	47.033	7.300	46.940	0.00	0.00
ATOM	5584	HG3	GLU	X	372	48.816	7.135	46.700	0.00	0.00
ATOM	5585	CD	GLU	X	372	48.081	5.949	48.274	0.00	0.00
ATOM	5586	OE1	GLU	X	372	49.194	5.665	48.781	0.00	0.00
ATOM	5587	OE2	GLU	X	372	47.052	5.264	48.368	0.00	0.00
ATOM	5588	C	GLU	X	372	47.401	9.724	46.014	0.00	0.00
ATOM	5589	O	GLU	X	372	47.871	9.332	44.885	0.00	0.00
ATOM	5590	N	ALA	X	373	46.164	10.232	46.127	0.00	0.00
ATOM	5591	H	ALA	X	373	45.868	10.479	47.060	0.00	0.00
ATOM	5592	CA	ALA	X	373	45.312	10.418	44.888	0.00	0.00
ATOM	5593	HA	ALA	X	373	45.210	9.485	44.333	0.00	0.00
ATOM	5594	CB	ALA	X	373	43.883	10.880	45.270	0.00	0.00
ATOM	5595	HB1	ALA	X	373	43.863	11.880	45.702	0.00	0.00
ATOM	5596	HB2	ALA	X	373	43.219	10.866	44.406	0.00	0.00
ATOM	5597	HB3	ALA	X	373	43.493	10.085	45.905	0.00	0.00
ATOM	5598	C	ALA	X	373	45.907	11.394	43.907	0.00	0.00

ATOM	5599	O	ALA	X	373	45.921	11.152	42.696	0.00	0.00
ATOM	5600	N	VAL	X	374	46.326	12.610	44.350	0.00	0.00
ATOM	5601	H	VAL	X	374	46.201	12.808	45.333	0.00	0.00
ATOM	5602	CA	VAL	X	374	46.951	13.681	43.566	0.00	0.00
ATOM	5603	HA	VAL	X	374	46.370	13.987	42.696	0.00	0.00
ATOM	5604	CB	VAL	X	374	47.161	14.984	44.452	0.00	0.00
ATOM	5605	HB	VAL	X	374	47.680	14.701	45.368	0.00	0.00
ATOM	5606	CG1	VAL	X	374	48.071	15.956	43.660	0.00	0.00
ATOM	5607	HG11	VAL	X	374	47.613	16.242	42.713	0.00	0.00
ATOM	5608	HG12	VAL	X	374	48.150	16.877	44.238	0.00	0.00
ATOM	5609	HG13	VAL	X	374	49.059	15.519	43.513	0.00	0.00
ATOM	5610	CG2	VAL	X	374	45.921	15.750	44.771	0.00	0.00
ATOM	5611	HG21	VAL	X	374	45.527	16.035	43.795	0.00	0.00
ATOM	5612	HG22	VAL	X	374	45.108	15.139	45.163	0.00	0.00
ATOM	5613	HG23	VAL	X	374	46.168	16.693	45.258	0.00	0.00
ATOM	5614	C	VAL	X	374	48.279	13.131	42.971	0.00	0.00
ATOM	5615	O	VAL	X	374	48.409	13.229	41.769	0.00	0.00
ATOM	5616	N	VAL	X	375	49.114	12.478	43.682	0.00	0.00
ATOM	5617	H	VAL	X	375	48.940	12.576	44.672	0.00	0.00
ATOM	5618	CA	VAL	X	375	50.268	11.726	43.209	0.00	0.00
ATOM	5619	HA	VAL	X	375	50.819	12.444	42.603	0.00	0.00
ATOM	5620	CB	VAL	X	375	51.232	11.241	44.392	0.00	0.00
ATOM	5621	HB	VAL	X	375	50.761	10.489	45.025	0.00	0.00
ATOM	5622	CG1	VAL	X	375	52.418	10.498	43.757	0.00	0.00
ATOM	5623	HG11	VAL	X	375	53.147	10.466	44.567	0.00	0.00
ATOM	5624	HG12	VAL	X	375	52.136	9.509	43.394	0.00	0.00
ATOM	5625	HG13	VAL	X	375	52.843	11.045	42.915	0.00	0.00
ATOM	5626	CG2	VAL	X	375	51.863	12.413	45.236	0.00	0.00
ATOM	5627	HG21	VAL	X	375	52.529	11.952	45.965	0.00	0.00
ATOM	5628	HG22	VAL	X	375	52.429	13.105	44.613	0.00	0.00
ATOM	5629	HG23	VAL	X	375	51.064	12.957	45.740	0.00	0.00
ATOM	5630	C	VAL	X	375	49.993	10.684	42.141	0.00	0.00
ATOM	5631	O	VAL	X	375	50.780	10.472	41.176	0.00	0.00
ATOM	5632	N	LEU	X	376	48.848	10.003	42.225	0.00	0.00
ATOM	5633	H	LEU	X	376	48.261	10.151	43.033	0.00	0.00
ATOM	5634	CA	LEU	X	376	48.390	9.072	41.179	0.00	0.00
ATOM	5635	HA	LEU	X	376	49.344	8.579	40.993	0.00	0.00
ATOM	5636	CB	LEU	X	376	47.428	8.117	41.901	0.00	0.00
ATOM	5637	HB2	LEU	X	376	47.906	7.703	42.788	0.00	0.00
ATOM	5638	HB3	LEU	X	376	46.538	8.698	42.142	0.00	0.00
ATOM	5639	CG	LEU	X	376	47.111	6.880	41.013	0.00	0.00
ATOM	5640	HG	LEU	X	376	46.556	7.285	40.167	0.00	0.00
ATOM	5641	CD1	LEU	X	376	48.350	6.133	40.495	0.00	0.00
ATOM	5642	HD11	LEU	X	376	48.867	5.800	41.395	0.00	0.00
ATOM	5643	HD12	LEU	X	376	48.081	5.220	39.963	0.00	0.00
ATOM	5644	HD13	LEU	X	376	49.074	6.708	39.917	0.00	0.00
ATOM	5645	CD2	LEU	X	376	46.219	5.860	41.783	0.00	0.00
ATOM	5646	HD21	LEU	X	376	45.958	5.112	41.035	0.00	0.00
ATOM	5647	HD22	LEU	X	376	46.673	5.453	42.687	0.00	0.00
ATOM	5648	HD23	LEU	X	376	45.369	6.421	42.171	0.00	0.00
ATOM	5649	C	LEU	X	376	47.913	9.687	39.869	0.00	0.00
ATOM	5650	O	LEU	X	376	48.142	9.154	38.761	0.00	0.00
ATOM	5651	N	HIE	X	377	47.166	10.778	40.047	0.00	0.00
ATOM	5652	H	HIE	X	377	47.179	11.231	40.950	0.00	0.00
ATOM	5653	CA	HIE	X	377	46.474	11.361	38.914	0.00	0.00
ATOM	5654	HA	HIE	X	377	46.121	10.514	38.326	0.00	0.00
ATOM	5655	CB	HIE	X	377	45.314	12.206	39.298	0.00	0.00
ATOM	5656	HB2	HIE	X	377	44.724	11.602	39.987	0.00	0.00
ATOM	5657	HB3	HIE	X	377	45.700	13.098	39.792	0.00	0.00
ATOM	5658	CG	HIE	X	377	44.345	12.531	38.140	0.00	0.00
ATOM	5659	ND1	HIE	X	377	44.243	13.799	37.666	0.00	0.00
ATOM	5660	CE1	HIE	X	377	43.475	13.701	36.480	0.00	0.00
ATOM	5661	HE1	HIE	X	377	43.141	14.576	35.942	0.00	0.00
ATOM	5662	NE2	HIE	X	377	43.184	12.423	36.251	0.00	0.00
ATOM	5663	HE2	HIE	X	377	42.627	12.057	35.492	0.00	0.00
ATOM	5664	CD2	HIE	X	377	43.730	11.707	37.271	0.00	0.00
ATOM	5665	HD2	HIE	X	377	43.689	10.635	37.399	0.00	0.00
ATOM	5666	C	HIE	X	377	47.482	12.162	37.948	0.00	0.00
ATOM	5667	O	HIE	X	377	47.365	12.030	36.747	0.00	0.00
ATOM	5668	N	TYR	X	378	48.446	12.906	38.616	0.00	0.00

ATOM	5669	H	TYR	X	378	48.246	12.936	39.605	0.00	0.00
ATOM	5670	CA	TYR	X	378	49.468	13.743	38.055	0.00	0.00
ATOM	5671	HA	TYR	X	378	49.109	14.154	37.112	0.00	0.00
ATOM	5672	CB	TYR	X	378	49.707	14.880	39.018	0.00	0.00
ATOM	5673	HB2	TYR	X	378	49.939	14.523	40.021	0.00	0.00
ATOM	5674	HB3	TYR	X	378	50.571	15.508	38.800	0.00	0.00
ATOM	5675	CG	TYR	X	378	48.546	15.917	39.003	0.00	0.00
ATOM	5676	CD1	TYR	X	378	48.641	16.968	38.106	0.00	0.00
ATOM	5677	HD1	TYR	X	378	49.478	17.093	37.435	0.00	0.00
ATOM	5678	CE1	TYR	X	378	47.672	17.954	38.020	0.00	0.00
ATOM	5679	HE1	TYR	X	378	47.935	18.868	37.509	0.00	0.00
ATOM	5680	CZ	TYR	X	378	46.523	17.868	38.793	0.00	0.00
ATOM	5681	OH	TYR	X	378	45.628	18.872	38.767	0.00	0.00
ATOM	5682	HH	TYR	X	378	45.905	19.652	38.281	0.00	0.00
ATOM	5683	CE2	TYR	X	378	46.351	16.789	39.690	0.00	0.00
ATOM	5684	HE2	TYR	X	378	45.665	16.852	40.522	0.00	0.00
ATOM	5685	CD2	TYR	X	378	47.345	15.789	39.689	0.00	0.00
ATOM	5686	HD2	TYR	X	378	47.166	15.023	40.430	0.00	0.00
ATOM	5687	C	TYR	X	378	50.812	13.017	37.692	0.00	0.00
ATOM	5688	O	TYR	X	378	51.398	13.312	36.681	0.00	0.00
ATOM	5689	N	THR	X	379	51.333	12.196	38.600	0.00	0.00
ATOM	5690	H	THR	X	379	50.825	11.914	39.427	0.00	0.00
ATOM	5691	CA	THR	X	379	52.688	11.771	38.469	0.00	0.00
ATOM	5692	HA	THR	X	379	53.265	12.556	37.981	0.00	0.00
ATOM	5693	CB	THR	X	379	53.362	11.633	39.864	0.00	0.00
ATOM	5694	HB	THR	X	379	53.127	10.726	40.421	0.00	0.00
ATOM	5695	CG2	THR	X	379	54.876	11.670	39.783	0.00	0.00
ATOM	5696	HG21	THR	X	379	55.345	12.520	39.288	0.00	0.00
ATOM	5697	HG22	THR	X	379	55.199	11.725	40.823	0.00	0.00
ATOM	5698	HG23	THR	X	379	55.257	10.727	39.390	0.00	0.00
ATOM	5699	OG1	THR	X	379	52.869	12.628	40.768	0.00	0.00
ATOM	5700	HG1	THR	X	379	52.178	12.330	41.364	0.00	0.00
ATOM	5701	C	THR	X	379	52.795	10.366	37.687	0.00	0.00
ATOM	5702	O	THR	X	379	52.066	9.402	37.969	0.00	0.00
ATOM	5703	N	ASP	X	380	53.698	10.284	36.694	0.00	0.00
ATOM	5704	H	ASP	X	380	54.147	11.157	36.455	0.00	0.00
ATOM	5705	CA	ASP	X	380	53.929	9.143	35.902	0.00	0.00
ATOM	5706	HA	ASP	X	380	52.925	8.745	35.753	0.00	0.00
ATOM	5707	CB	ASP	X	380	54.416	9.640	34.588	0.00	0.00
ATOM	5708	HB2	ASP	X	380	53.765	10.438	34.231	0.00	0.00
ATOM	5709	HB3	ASP	X	380	55.375	10.154	34.651	0.00	0.00
ATOM	5710	CG	ASP	X	380	54.516	8.652	33.487	0.00	0.00
ATOM	5711	OD1	ASP	X	380	55.632	8.139	33.252	0.00	0.00
ATOM	5712	OD2	ASP	X	380	53.487	8.280	32.908	0.00	0.00
ATOM	5713	C	ASP	X	380	54.913	8.123	36.496	0.00	0.00
ATOM	5714	O	ASP	X	380	55.857	8.516	37.180	0.00	0.00
ATOM	5715	N	TRP	X	381	54.740	6.809	36.179	0.00	0.00
ATOM	5716	H	TRP	X	381	53.941	6.531	35.628	0.00	0.00
ATOM	5717	CA	TRP	X	381	55.363	5.725	36.887	0.00	0.00
ATOM	5718	HA	TRP	X	381	55.894	6.150	37.739	0.00	0.00
ATOM	5719	CB	TRP	X	381	54.379	4.701	37.446	0.00	0.00
ATOM	5720	HB2	TRP	X	381	53.838	4.229	36.626	0.00	0.00
ATOM	5721	HB3	TRP	X	381	54.943	3.936	37.979	0.00	0.00
ATOM	5722	CG	TRP	X	381	53.484	5.425	38.388	0.00	0.00
ATOM	5723	CD1	TRP	X	381	52.244	5.867	38.271	0.00	0.00
ATOM	5724	HD1	TRP	X	381	51.754	5.804	37.311	0.00	0.00
ATOM	5725	NE1	TRP	X	381	51.793	6.378	39.455	0.00	0.00
ATOM	5726	HE1	TRP	X	381	50.867	6.749	39.611	0.00	0.00
ATOM	5727	CE2	TRP	X	381	52.730	6.261	40.439	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	52.637	6.590	41.817	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	51.796	7.118	42.241	0.00	0.00
ATOM	5730	CH2	TRP	X	381	53.768	6.177	42.610	0.00	0.00
ATOM	5731	HH2	TRP	X	381	53.658	6.286	43.679	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	54.891	5.500	42.075	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	55.663	5.184	42.760	0.00	0.00
ATOM	5734	CE3	TRP	X	381	54.875	5.239	40.670	0.00	0.00
ATOM	5735	HE3	TRP	X	381	55.729	4.820	40.158	0.00	0.00
ATOM	5736	CD2	TRP	X	381	53.782	5.528	39.845	0.00	0.00
ATOM	5737	C	TRP	X	381	56.525	5.036	36.058	0.00	0.00
ATOM	5738	O	TRP	X	381	57.193	4.119	36.615	0.00	0.00

ATOM	5739	N	LEU	X	382	56.832	5.439	34.811	0.00	0.00
ATOM	5740	H	LEU	X	382	56.346	6.218	34.391	0.00	0.00
ATOM	5741	CA	LEU	X	382	58.006	4.918	34.053	0.00	0.00
ATOM	5742	HA	LEU	X	382	57.963	3.829	34.057	0.00	0.00
ATOM	5743	CB	LEU	X	382	58.047	5.545	32.666	0.00	0.00
ATOM	5744	HB2	LEU	X	382	57.132	5.166	32.212	0.00	0.00
ATOM	5745	HB3	LEU	X	382	58.024	6.629	32.770	0.00	0.00
ATOM	5746	CG	LEU	X	382	59.220	5.105	31.716	0.00	0.00
ATOM	5747	HG	LEU	X	382	60.149	5.404	32.201	0.00	0.00
ATOM	5748	CD1	LEU	X	382	59.432	3.604	31.499	0.00	0.00
ATOM	5749	HD11	LEU	X	382	60.306	3.361	30.894	0.00	0.00
ATOM	5750	HD12	LEU	X	382	59.669	3.145	32.459	0.00	0.00
ATOM	5751	HD13	LEU	X	382	58.557	3.196	30.993	0.00	0.00
ATOM	5752	CD2	LEU	X	382	59.164	5.894	30.405	0.00	0.00
ATOM	5753	HD21	LEU	X	382	59.940	5.587	29.704	0.00	0.00
ATOM	5754	HD22	LEU	X	382	58.227	5.674	29.892	0.00	0.00
ATOM	5755	HD23	LEU	X	382	59.179	6.957	30.644	0.00	0.00
ATOM	5756	C	LEU	X	382	59.301	5.341	34.719	0.00	0.00
ATOM	5757	O	LEU	X	382	60.084	4.459	35.182	0.00	0.00
ATOM	5758	N	HIE	X	383	59.582	6.597	34.921	0.00	0.00
ATOM	5759	H	HIE	X	383	58.884	7.268	34.634	0.00	0.00
ATOM	5760	CA	HIE	X	383	60.745	7.221	35.640	0.00	0.00
ATOM	5761	HA	HIE	X	383	61.478	6.513	36.025	0.00	0.00
ATOM	5762	CB	HIE	X	383	61.433	8.157	34.592	0.00	0.00
ATOM	5763	HB2	HIE	X	383	60.783	9.007	34.384	0.00	0.00
ATOM	5764	HB3	HIE	X	383	62.357	8.563	35.002	0.00	0.00
ATOM	5765	CG	HIE	X	383	61.902	7.564	33.299	0.00	0.00
ATOM	5766	ND1	HIE	X	383	61.984	8.193	32.066	0.00	0.00
ATOM	5767	CE1	HIE	X	383	62.276	7.217	31.169	0.00	0.00
ATOM	5768	HE1	HIE	X	383	62.511	7.342	30.122	0.00	0.00
ATOM	5769	NE2	HIE	X	383	62.446	6.086	31.774	0.00	0.00
ATOM	5770	HE2	HIE	X	383	62.531	5.159	31.382	0.00	0.00
ATOM	5771	CD2	HIE	X	383	62.324	6.304	33.127	0.00	0.00
ATOM	5772	HD2	HIE	X	383	62.431	5.635	33.968	0.00	0.00
ATOM	5773	C	HIE	X	383	60.199	8.048	36.845	0.00	0.00
ATOM	5774	O	HIE	X	383	59.941	9.267	36.810	0.00	0.00
ATOM	5775	N	PRO	X	384	59.914	7.331	37.942	0.00	0.00
ATOM	5776	CD	PRO	X	384	59.966	5.926	38.175	0.00	0.00
ATOM	5777	HD2	PRO	X	384	60.984	5.608	37.952	0.00	0.00
ATOM	5778	HD3	PRO	X	384	59.283	5.392	37.514	0.00	0.00
ATOM	5779	CG	PRO	X	384	59.587	5.681	39.655	0.00	0.00
ATOM	5780	HG2	PRO	X	384	60.490	5.870	40.237	0.00	0.00
ATOM	5781	HG3	PRO	X	384	59.107	4.704	39.706	0.00	0.00
ATOM	5782	CB	PRO	X	384	58.540	6.740	39.790	0.00	0.00
ATOM	5783	HB2	PRO	X	384	58.306	6.841	40.849	0.00	0.00
ATOM	5784	HB3	PRO	X	384	57.671	6.391	39.232	0.00	0.00
ATOM	5785	CA	PRO	X	384	59.278	7.907	39.095	0.00	0.00
ATOM	5786	HA	PRO	X	384	58.490	8.611	38.828	0.00	0.00
ATOM	5787	C	PRO	X	384	60.256	8.625	40.069	0.00	0.00
ATOM	5788	O	PRO	X	384	59.713	9.148	40.981	0.00	0.00
ATOM	5789	N	GLU	X	385	61.561	8.760	39.795	0.00	0.00
ATOM	5790	H	GLU	X	385	61.855	8.223	38.992	0.00	0.00
ATOM	5791	CA	GLU	X	385	62.556	9.473	40.595	0.00	0.00
ATOM	5792	HA	GLU	X	385	61.889	10.064	41.221	0.00	0.00
ATOM	5793	CB	GLU	X	385	63.341	8.445	41.308	0.00	0.00
ATOM	5794	HB2	GLU	X	385	63.891	7.817	40.607	0.00	0.00
ATOM	5795	HB3	GLU	X	385	64.154	8.995	41.780	0.00	0.00
ATOM	5796	CG	GLU	X	385	62.579	7.575	42.336	0.00	0.00
ATOM	5797	HG2	GLU	X	385	62.189	8.227	43.118	0.00	0.00
ATOM	5798	HG3	GLU	X	385	61.752	7.047	41.861	0.00	0.00
ATOM	5799	CD	GLU	X	385	63.659	6.676	42.987	0.00	0.00
ATOM	5800	OE1	GLU	X	385	63.862	5.531	42.462	0.00	0.00
ATOM	5801	OE2	GLU	X	385	64.410	7.189	43.902	0.00	0.00
ATOM	5802	C	GLU	X	385	63.294	10.578	39.807	0.00	0.00
ATOM	5803	O	GLU	X	385	64.499	10.870	40.091	0.00	0.00
ATOM	5804	N	ASP	X	386	62.694	11.232	38.779	0.00	0.00
ATOM	5805	H	ASP	X	386	61.788	10.886	38.498	0.00	0.00
ATOM	5806	CA	ASP	X	386	63.294	12.228	37.915	0.00	0.00
ATOM	5807	HA	ASP	X	386	64.356	11.995	37.995	0.00	0.00
ATOM	5808	CB	ASP	X	386	62.876	12.144	36.443	0.00	0.00

ATOM	5809	HB2	ASP	X	386	62.759	11.136	36.045	0.00	0.00
ATOM	5810	HB3	ASP	X	386	61.914	12.606	36.224	0.00	0.00
ATOM	5811	CG	ASP	X	386	63.961	12.878	35.527	0.00	0.00
ATOM	5812	OD1	ASP	X	386	64.113	14.102	35.705	0.00	0.00
ATOM	5813	OD2	ASP	X	386	64.604	12.204	34.676	0.00	0.00
ATOM	5814	C	ASP	X	386	62.997	13.632	38.464	0.00	0.00
ATOM	5815	O	ASP	X	386	61.781	13.906	38.596	0.00	0.00
ATOM	5816	N	PRO	X	387	63.973	14.480	38.852	0.00	0.00
ATOM	5817	CD	PRO	X	387	65.355	14.137	38.915	0.00	0.00
ATOM	5818	HD2	PRO	X	387	65.812	14.231	37.931	0.00	0.00
ATOM	5819	HD3	PRO	X	387	65.464	13.122	39.299	0.00	0.00
ATOM	5820	CG	PRO	X	387	66.028	15.184	39.822	0.00	0.00
ATOM	5821	HG2	PRO	X	387	67.089	15.315	39.611	0.00	0.00
ATOM	5822	HG3	PRO	X	387	65.812	14.925	40.859	0.00	0.00
ATOM	5823	CB	PRO	X	387	65.142	16.380	39.516	0.00	0.00
ATOM	5824	HB2	PRO	X	387	65.387	16.801	38.541	0.00	0.00
ATOM	5825	HB3	PRO	X	387	65.033	17.140	40.289	0.00	0.00
ATOM	5826	CA	PRO	X	387	63.768	15.765	39.377	0.00	0.00
ATOM	5827	HA	PRO	X	387	63.395	15.592	40.387	0.00	0.00
ATOM	5828	C	PRO	X	387	62.904	16.692	38.595	0.00	0.00
ATOM	5829	O	PRO	X	387	62.185	17.503	39.118	0.00	0.00
ATOM	5830	N	ALA	X	388	62.970	16.533	37.281	0.00	0.00
ATOM	5831	H	ALA	X	388	63.608	15.839	36.918	0.00	0.00
ATOM	5832	CA	ALA	X	388	62.206	17.278	36.304	0.00	0.00
ATOM	5833	HA	ALA	X	388	62.195	18.329	36.593	0.00	0.00
ATOM	5834	CB	ALA	X	388	62.890	17.124	34.905	0.00	0.00
ATOM	5835	HB1	ALA	X	388	63.926	17.451	34.989	0.00	0.00
ATOM	5836	HB2	ALA	X	388	62.996	16.089	34.579	0.00	0.00
ATOM	5837	HB3	ALA	X	388	62.292	17.726	34.220	0.00	0.00
ATOM	5838	C	ALA	X	388	60.719	16.866	36.300	0.00	0.00
ATOM	5839	O	ALA	X	388	59.896	17.768	36.451	0.00	0.00
ATOM	5840	N	ARG	X	389	60.381	15.609	36.071	0.00	0.00
ATOM	5841	H	ARG	X	389	61.116	14.961	35.828	0.00	0.00
ATOM	5842	CA	ARG	X	389	58.990	15.249	36.103	0.00	0.00
ATOM	5843	HA	ARG	X	389	58.515	15.794	35.288	0.00	0.00
ATOM	5844	CB	ARG	X	389	58.828	13.739	35.848	0.00	0.00
ATOM	5845	HB2	ARG	X	389	58.996	13.104	36.718	0.00	0.00
ATOM	5846	HB3	ARG	X	389	57.753	13.626	35.708	0.00	0.00
ATOM	5847	CG	ARG	X	389	59.488	13.190	34.610	0.00	0.00
ATOM	5848	HG2	ARG	X	389	59.041	13.751	33.790	0.00	0.00
ATOM	5849	HG3	ARG	X	389	60.570	13.313	34.648	0.00	0.00
ATOM	5850	CD	ARG	X	389	59.165	11.716	34.467	0.00	0.00
ATOM	5851	HD2	ARG	X	389	59.518	11.203	35.361	0.00	0.00
ATOM	5852	HD3	ARG	X	389	58.081	11.621	34.395	0.00	0.00
ATOM	5853	NE	ARG	X	389	59.872	11.233	33.236	0.00	0.00
ATOM	5854	HE	ARG	X	389	60.821	10.943	33.424	0.00	0.00
ATOM	5855	CZ	ARG	X	389	59.370	11.030	32.050	0.00	0.00
ATOM	5856	NH1	ARG	X	389	58.189	11.384	31.744	0.00	0.00
ATOM	5857	HH11	ARG	X	389	57.671	11.975	32.379	0.00	0.00
ATOM	5858	HH12	ARG	X	389	57.731	11.074	30.899	0.00	0.00
ATOM	5859	NH2	ARG	X	389	60.064	10.431	31.198	0.00	0.00
ATOM	5860	HH21	ARG	X	389	60.953	10.064	31.506	0.00	0.00
ATOM	5861	HH22	ARG	X	389	59.908	10.458	30.201	0.00	0.00
ATOM	5862	C	ARG	X	389	58.287	15.604	37.426	0.00	0.00
ATOM	5863	O	ARG	X	389	57.076	15.801	37.446	0.00	0.00
ATOM	5864	N	LEU	X	390	59.006	15.714	38.540	0.00	0.00
ATOM	5865	H	LEU	X	390	60.007	15.580	38.545	0.00	0.00
ATOM	5866	CA	LEU	X	390	58.518	15.844	39.881	0.00	0.00
ATOM	5867	HA	LEU	X	390	57.524	15.404	39.956	0.00	0.00
ATOM	5868	CB	LEU	X	390	59.415	15.139	40.958	0.00	0.00
ATOM	5869	HB2	LEU	X	390	60.461	15.434	40.872	0.00	0.00
ATOM	5870	HB3	LEU	X	390	59.073	15.443	41.947	0.00	0.00
ATOM	5871	CG	LEU	X	390	59.493	13.587	40.914	0.00	0.00
ATOM	5872	HG	LEU	X	390	59.988	13.288	39.989	0.00	0.00
ATOM	5873	CD1	LEU	X	390	60.457	13.123	42.103	0.00	0.00
ATOM	5874	HD11	LEU	X	390	59.902	13.298	43.025	0.00	0.00
ATOM	5875	HD12	LEU	X	390	60.773	12.083	42.022	0.00	0.00
ATOM	5876	HD13	LEU	X	390	61.346	13.754	42.067	0.00	0.00
ATOM	5877	CD2	LEU	X	390	58.201	12.847	41.062	0.00	0.00
ATOM	5878	HD21	LEU	X	390	58.511	11.803	41.013	0.00	0.00

ATOM	5879	HD22	LEU	X	390	57.676	13.122	41.977	0.00	0.00
ATOM	5880	HD23	LEU	X	390	57.503	13.063	40.253	0.00	0.00
ATOM	5881	C	LEU	X	390	58.237	17.332	40.207	0.00	0.00
ATOM	5882	O	LEU	X	390	57.178	17.687	40.619	0.00	0.00
ATOM	5883	N	ARG	X	391	59.223	18.163	39.799	0.00	0.00
ATOM	5884	H	ARG	X	391	60.111	17.773	39.516	0.00	0.00
ATOM	5885	CA	ARG	X	391	59.115	19.639	39.903	0.00	0.00
ATOM	5886	HA	ARG	X	391	58.941	19.931	40.939	0.00	0.00
ATOM	5887	CB	ARG	X	391	60.515	20.156	39.368	0.00	0.00
ATOM	5888	HB2	ARG	X	391	61.222	19.628	40.009	0.00	0.00
ATOM	5889	HB3	ARG	X	391	60.835	19.777	38.398	0.00	0.00
ATOM	5890	CG	ARG	X	391	60.649	21.670	39.430	0.00	0.00
ATOM	5891	HG2	ARG	X	391	59.824	22.069	38.840	0.00	0.00
ATOM	5892	HG3	ARG	X	391	60.492	21.929	40.477	0.00	0.00
ATOM	5893	CD	ARG	X	391	62.009	22.251	39.015	0.00	0.00
ATOM	5894	HD2	ARG	X	391	61.904	22.229	37.930	0.00	0.00
ATOM	5895	HD3	ARG	X	391	62.142	23.276	39.363	0.00	0.00
ATOM	5896	NE	ARG	X	391	63.193	21.474	39.502	0.00	0.00
ATOM	5897	HE	ARG	X	391	63.294	21.374	40.502	0.00	0.00
ATOM	5898	CZ	ARG	X	391	64.229	21.295	38.758	0.00	0.00
ATOM	5899	NH1	ARG	X	391	64.267	21.597	37.488	0.00	0.00
ATOM	5900	HH11	ARG	X	391	63.374	21.718	37.032	0.00	0.00
ATOM	5901	HH12	ARG	X	391	65.143	21.651	36.988	0.00	0.00
ATOM	5902	NH2	ARG	X	391	65.336	21.011	39.339	0.00	0.00
ATOM	5903	HH21	ARG	X	391	65.304	20.753	40.315	0.00	0.00
ATOM	5904	HH22	ARG	X	391	66.199	20.922	38.823	0.00	0.00
ATOM	5905	C	ARG	X	391	57.997	20.096	38.930	0.00	0.00
ATOM	5906	O	ARG	X	391	57.175	20.984	39.298	0.00	0.00
ATOM	5907	N	GLU	X	392	57.952	19.586	37.676	0.00	0.00
ATOM	5908	H	GLU	X	392	58.760	19.005	37.505	0.00	0.00
ATOM	5909	CA	GLU	X	392	57.010	19.791	36.617	0.00	0.00
ATOM	5910	HA	GLU	X	392	57.082	20.868	36.464	0.00	0.00
ATOM	5911	CB	GLU	X	392	57.408	19.138	35.282	0.00	0.00
ATOM	5912	HB2	GLU	X	392	58.494	19.211	35.220	0.00	0.00
ATOM	5913	HB3	GLU	X	392	57.205	18.067	35.251	0.00	0.00
ATOM	5914	CG	GLU	X	392	56.801	19.837	34.055	0.00	0.00
ATOM	5915	HG2	GLU	X	392	57.024	19.276	33.147	0.00	0.00
ATOM	5916	HG3	GLU	X	392	55.713	19.780	34.021	0.00	0.00
ATOM	5917	CD	GLU	X	392	57.321	21.277	33.954	0.00	0.00
ATOM	5918	OE1	GLU	X	392	56.541	22.172	33.790	0.00	0.00
ATOM	5919	OE2	GLU	X	392	58.576	21.404	34.071	0.00	0.00
ATOM	5920	C	GLU	X	392	55.617	19.385	37.047	0.00	0.00
ATOM	5921	O	GLU	X	392	54.709	20.234	37.043	0.00	0.00
ATOM	5922	N	ALA	X	393	55.401	18.133	37.508	0.00	0.00
ATOM	5923	H	ALA	X	393	56.069	17.376	37.521	0.00	0.00
ATOM	5924	CA	ALA	X	393	54.068	17.784	38.135	0.00	0.00
ATOM	5925	HA	ALA	X	393	53.241	17.861	37.428	0.00	0.00
ATOM	5926	CB	ALA	X	393	54.024	16.322	38.733	0.00	0.00
ATOM	5927	HB1	ALA	X	393	54.091	15.505	38.015	0.00	0.00
ATOM	5928	HB2	ALA	X	393	54.902	16.174	39.362	0.00	0.00
ATOM	5929	HB3	ALA	X	393	53.103	16.098	39.271	0.00	0.00
ATOM	5930	C	ALA	X	393	53.650	18.751	39.266	0.00	0.00
ATOM	5931	O	ALA	X	393	52.510	18.998	39.527	0.00	0.00
ATOM	5932	N	LEU	X	394	54.612	19.219	40.120	0.00	0.00
ATOM	5933	H	LEU	X	394	55.576	18.917	40.085	0.00	0.00
ATOM	5934	CA	LEU	X	394	54.235	20.124	41.238	0.00	0.00
ATOM	5935	HA	LEU	X	394	53.343	19.707	41.706	0.00	0.00
ATOM	5936	CB	LEU	X	394	55.293	20.139	42.374	0.00	0.00
ATOM	5937	HB2	LEU	X	394	55.486	19.133	42.747	0.00	0.00
ATOM	5938	HB3	LEU	X	394	56.180	20.743	42.181	0.00	0.00
ATOM	5939	CG	LEU	X	394	54.726	20.822	43.643	0.00	0.00
ATOM	5940	HG	LEU	X	394	54.437	21.847	43.411	0.00	0.00
ATOM	5941	CD1	LEU	X	394	53.482	20.128	44.115	0.00	0.00
ATOM	5942	HD11	LEU	X	394	53.678	19.062	44.230	0.00	0.00
ATOM	5943	HD12	LEU	X	394	53.142	20.433	45.105	0.00	0.00
ATOM	5944	HD13	LEU	X	394	52.628	20.197	43.442	0.00	0.00
ATOM	5945	CD2	LEU	X	394	55.727	20.962	44.738	0.00	0.00
ATOM	5946	HD21	LEU	X	394	56.165	19.966	44.795	0.00	0.00
ATOM	5947	HD22	LEU	X	394	56.497	21.644	44.378	0.00	0.00
ATOM	5948	HD23	LEU	X	394	55.240	21.332	45.641	0.00	0.00

ATOM	5949	C	LEU	X	394	53.809	21.541	40.747	0.00	0.00
ATOM	5950	O	LEU	X	394	52.888	22.115	41.329	0.00	0.00
ATOM	5951	N	SER	X	395	54.365	21.979	39.634	0.00	0.00
ATOM	5952	H	SER	X	395	55.040	21.356	39.217	0.00	0.00
ATOM	5953	CA	SER	X	395	54.080	23.229	39.006	0.00	0.00
ATOM	5954	HA	SER	X	395	54.040	24.031	39.743	0.00	0.00
ATOM	5955	CB	SER	X	395	55.237	23.568	38.057	0.00	0.00
ATOM	5956	HB2	SER	X	395	55.286	22.751	37.338	0.00	0.00
ATOM	5957	HB3	SER	X	395	55.036	24.491	37.514	0.00	0.00
ATOM	5958	OG	SER	X	395	56.496	23.687	38.698	0.00	0.00
ATOM	5959	HG	SER	X	395	56.611	22.869	39.187	0.00	0.00
ATOM	5960	C	SER	X	395	52.708	23.165	38.317	0.00	0.00
ATOM	5961	O	SER	X	395	52.015	24.156	38.186	0.00	0.00
ATOM	5962	N	ASP	X	396	52.347	21.933	37.880	0.00	0.00
ATOM	5963	H	ASP	X	396	53.076	21.241	37.776	0.00	0.00
ATOM	5964	CA	ASP	X	396	51.087	21.627	37.206	0.00	0.00
ATOM	5965	HA	ASP	X	396	50.997	22.493	36.550	0.00	0.00
ATOM	5966	CB	ASP	X	396	51.208	20.241	36.525	0.00	0.00
ATOM	5967	HB2	ASP	X	396	52.240	20.069	36.221	0.00	0.00
ATOM	5968	HB3	ASP	X	396	51.010	19.434	37.230	0.00	0.00
ATOM	5969	CG	ASP	X	396	50.274	20.051	35.339	0.00	0.00
ATOM	5970	OD1	ASP	X	396	50.393	20.822	34.414	0.00	0.00
ATOM	5971	OD2	ASP	X	396	49.624	18.976	35.202	0.00	0.00
ATOM	5972	C	ASP	X	396	49.886	21.704	38.186	0.00	0.00
ATOM	5973	O	ASP	X	396	48.893	22.419	37.905	0.00	0.00
ATOM	5974	N	VAL	X	397	50.120	21.059	39.349	0.00	0.00
ATOM	5975	H	VAL	X	397	51.014	20.590	39.398	0.00	0.00
ATOM	5976	CA	VAL	X	397	49.174	20.936	40.489	0.00	0.00
ATOM	5977	HA	VAL	X	397	48.267	20.528	40.042	0.00	0.00
ATOM	5978	CB	VAL	X	397	49.635	19.889	41.570	0.00	0.00
ATOM	5979	HB	VAL	X	397	50.625	20.235	41.864	0.00	0.00
ATOM	5980	CG1	VAL	X	397	48.722	19.918	42.829	0.00	0.00
ATOM	5981	HG11	VAL	X	397	49.164	19.297	43.608	0.00	0.00
ATOM	5982	HG12	VAL	X	397	48.524	20.923	43.201	0.00	0.00
ATOM	5983	HG13	VAL	X	397	47.735	19.486	42.666	0.00	0.00
ATOM	5984	CG2	VAL	X	397	49.552	18.430	41.124	0.00	0.00
ATOM	5985	HG21	VAL	X	397	48.564	18.122	40.782	0.00	0.00
ATOM	5986	HG22	VAL	X	397	50.180	18.378	40.235	0.00	0.00
ATOM	5987	HG23	VAL	X	397	50.014	17.857	41.928	0.00	0.00
ATOM	5988	C	VAL	X	397	48.859	22.337	41.145	0.00	0.00
ATOM	5989	O	VAL	X	397	47.702	22.635	41.392	0.00	0.00
ATOM	5990	N	VAL	X	398	49.911	23.116	41.363	0.00	0.00
ATOM	5991	H	VAL	X	398	50.804	22.694	41.153	0.00	0.00
ATOM	5992	CA	VAL	X	398	49.733	24.351	42.148	0.00	0.00
ATOM	5993	HA	VAL	X	398	49.056	24.010	42.931	0.00	0.00
ATOM	5994	CB	VAL	X	398	51.149	24.790	42.676	0.00	0.00
ATOM	5995	HB	VAL	X	398	51.858	24.862	41.852	0.00	0.00
ATOM	5996	CG1	VAL	X	398	51.168	26.158	43.329	0.00	0.00
ATOM	5997	HG11	VAL	X	398	52.230	26.374	43.442	0.00	0.00
ATOM	5998	HG12	VAL	X	398	50.753	26.934	42.686	0.00	0.00
ATOM	5999	HG13	VAL	X	398	50.893	26.172	44.384	0.00	0.00
ATOM	6000	CG2	VAL	X	398	51.656	23.789	43.733	0.00	0.00
ATOM	6001	HG21	VAL	X	398	51.602	22.747	43.417	0.00	0.00
ATOM	6002	HG22	VAL	X	398	52.691	24.073	43.924	0.00	0.00
ATOM	6003	HG23	VAL	X	398	51.092	23.880	44.662	0.00	0.00
ATOM	6004	C	VAL	X	398	48.999	25.479	41.355	0.00	0.00
ATOM	6005	O	VAL	X	398	48.582	26.478	41.854	0.00	0.00
ATOM	6006	N	GLY	X	399	48.891	25.265	40.034	0.00	0.00
ATOM	6007	H	GLY	X	399	49.488	24.611	39.548	0.00	0.00
ATOM	6008	CA	GLY	X	399	48.025	26.101	39.237	0.00	0.00
ATOM	6009	HA2	GLY	X	399	48.212	27.163	39.528	0.00	0.00
ATOM	6010	HA3	GLY	X	399	48.319	25.973	38.220	0.00	0.00
ATOM	6011	C	GLY	X	399	46.551	25.869	39.289	0.00	0.00
ATOM	6012	O	GLY	X	399	45.833	26.800	39.407	0.00	0.00
ATOM	6013	N	ASP	X	400	46.117	24.611	39.259	0.00	0.00
ATOM	6014	H	ASP	X	400	46.824	23.897	39.362	0.00	0.00
ATOM	6015	CA	ASP	X	400	44.720	24.272	38.977	0.00	0.00
ATOM	6016	HA	ASP	X	400	44.375	24.796	38.085	0.00	0.00
ATOM	6017	CB	ASP	X	400	44.704	22.785	38.749	0.00	0.00
ATOM	6018	HB2	ASP	X	400	45.334	22.222	39.438	0.00	0.00

ATOM	6019	HB3	ASP	X	400	43.708	22.383	38.933	0.00	0.00
ATOM	6020	CG	ASP	X	400	45.182	22.284	37.357	0.00	0.00
ATOM	6021	OD1	ASP	X	400	44.814	22.963	36.405	0.00	0.00
ATOM	6022	OD2	ASP	X	400	45.604	21.154	37.230	0.00	0.00
ATOM	6023	C	ASP	X	400	43.790	24.710	40.087	0.00	0.00
ATOM	6024	O	ASP	X	400	42.990	25.617	39.925	0.00	0.00
ATOM	6025	N	HIE	X	401	44.059	24.285	41.310	0.00	0.00
ATOM	6026	H	HIE	X	401	44.898	23.729	41.385	0.00	0.00
ATOM	6027	CA	HIE	X	401	43.181	24.670	42.472	0.00	0.00
ATOM	6028	HA	HIE	X	401	42.180	24.519	42.069	0.00	0.00
ATOM	6029	CB	HIE	X	401	43.379	23.694	43.599	0.00	0.00
ATOM	6030	HB2	HIE	X	401	42.582	23.876	44.320	0.00	0.00
ATOM	6031	HB3	HIE	X	401	43.345	22.625	43.393	0.00	0.00
ATOM	6032	CG	HIE	X	401	44.653	23.911	44.428	0.00	0.00
ATOM	6033	ND1	HIE	X	401	44.750	24.813	45.517	0.00	0.00
ATOM	6034	CE1	HIE	X	401	46.061	24.670	45.825	0.00	0.00
ATOM	6035	HE1	HIE	X	401	46.578	25.161	46.637	0.00	0.00
ATOM	6036	NE2	HIE	X	401	46.694	23.741	45.114	0.00	0.00
ATOM	6037	HE2	HIE	X	401	47.662	23.462	45.191	0.00	0.00
ATOM	6038	CD2	HIE	X	401	45.834	23.217	44.256	0.00	0.00
ATOM	6039	HD2	HIE	X	401	46.076	22.399	43.594	0.00	0.00
ATOM	6040	C	HIE	X	401	43.117	26.129	42.885	0.00	0.00
ATOM	6041	O	HIE	X	401	42.126	26.489	43.476	0.00	0.00
ATOM	6042	N	ASN	X	402	44.172	26.876	42.412	0.00	0.00
ATOM	6043	H	ASN	X	402	44.908	26.424	41.888	0.00	0.00
ATOM	6044	CA	ASN	X	402	44.370	28.324	42.748	0.00	0.00
ATOM	6045	HA	ASN	X	402	43.759	28.493	43.635	0.00	0.00
ATOM	6046	CB	ASN	X	402	45.879	28.516	43.111	0.00	0.00
ATOM	6047	HB2	ASN	X	402	46.510	28.272	42.256	0.00	0.00
ATOM	6048	HB3	ASN	X	402	46.140	29.560	43.286	0.00	0.00
ATOM	6049	CG	ASN	X	402	46.316	27.751	44.326	0.00	0.00
ATOM	6050	OD1	ASN	X	402	45.637	27.757	45.348	0.00	0.00
ATOM	6051	ND2	ASN	X	402	47.485	27.188	44.373	0.00	0.00
ATOM	6052	HD21	ASN	X	402	47.671	26.696	45.236	0.00	0.00
ATOM	6053	HD22	ASN	X	402	48.068	27.098	43.554	0.00	0.00
ATOM	6054	C	ASN	X	402	43.889	29.251	41.671	0.00	0.00
ATOM	6055	O	ASN	X	402	43.242	30.275	41.995	0.00	0.00
ATOM	6056	N	VAL	X	403	44.194	28.889	40.403	0.00	0.00
ATOM	6057	H	VAL	X	403	44.528	27.942	40.288	0.00	0.00
ATOM	6058	CA	VAL	X	403	43.861	29.720	39.234	0.00	0.00
ATOM	6059	HA	VAL	X	403	43.199	30.496	39.619	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.119	30.507	38.757	0.00	0.00
ATOM	6061	HB	VAL	X	403	45.789	29.827	38.230	0.00	0.00
ATOM	6062	CG1	VAL	X	403	44.729	31.553	37.688	0.00	0.00
ATOM	6063	HG11	VAL	X	403	45.634	32.090	37.405	0.00	0.00
ATOM	6064	HG12	VAL	X	403	44.341	31.028	36.814	0.00	0.00
ATOM	6065	HG13	VAL	X	403	43.924	32.113	38.165	0.00	0.00
ATOM	6066	CG2	VAL	X	403	45.931	31.219	39.849	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.846	31.640	39.434	0.00	0.00
ATOM	6068	HG22	VAL	X	403	45.273	31.950	40.320	0.00	0.00
ATOM	6069	HG23	VAL	X	403	46.280	30.501	40.591	0.00	0.00
ATOM	6070	C	VAL	X	403	43.200	28.949	38.120	0.00	0.00
ATOM	6071	O	VAL	X	403	42.115	29.338	37.698	0.00	0.00
ATOM	6072	N	VAL	X	404	43.720	27.855	37.529	0.00	0.00
ATOM	6073	H	VAL	X	404	44.564	27.369	37.798	0.00	0.00
ATOM	6074	CA	VAL	X	404	43.234	27.279	36.254	0.00	0.00
ATOM	6075	HA	VAL	X	404	42.994	28.114	35.596	0.00	0.00
ATOM	6076	CB	VAL	X	404	44.338	26.492	35.453	0.00	0.00
ATOM	6077	HB	VAL	X	404	44.730	25.738	36.135	0.00	0.00
ATOM	6078	CG1	VAL	X	404	43.909	25.897	34.120	0.00	0.00
ATOM	6079	HG11	VAL	X	404	43.120	25.169	34.312	0.00	0.00
ATOM	6080	HG12	VAL	X	404	43.653	26.688	33.416	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.818	25.374	33.822	0.00	0.00
ATOM	6082	CG2	VAL	X	404	45.538	27.417	35.190	0.00	0.00
ATOM	6083	HG21	VAL	X	404	45.151	28.053	34.394	0.00	0.00
ATOM	6084	HG22	VAL	X	404	45.911	27.994	36.037	0.00	0.00
ATOM	6085	HG23	VAL	X	404	46.356	26.845	34.752	0.00	0.00
ATOM	6086	C	VAL	X	404	41.928	26.482	36.324	0.00	0.00
ATOM	6087	O	VAL	X	404	41.177	26.655	35.351	0.00	0.00
ATOM	6088	N	CYX	X	405	41.539	25.925	37.468	0.00	0.00

ATOM	6089	H	CYX	X	405	42.107	25.923	38.303	0.00	0.00
ATOM	6090	CA	CYX	X	405	40.176	25.361	37.584	0.00	0.00
ATOM	6091	HA	CYX	X	405	39.848	24.911	36.647	0.00	0.00
ATOM	6092	CB	CYX	X	405	40.195	24.174	38.492	0.00	0.00
ATOM	6093	HB2	CYX	X	405	40.590	24.529	39.444	0.00	0.00
ATOM	6094	HB3	CYX	X	405	39.171	23.880	38.724	0.00	0.00
ATOM	6095	SG	CYX	X	405	41.071	22.791	37.797	0.00	0.00
ATOM	6096	C	CYX	X	405	39.179	26.536	37.926	0.00	0.00
ATOM	6097	O	CYX	X	405	38.101	26.552	37.334	0.00	0.00
ATOM	6098	N	PRO	X	406	39.397	27.454	38.847	0.00	0.00
ATOM	6099	CD	PRO	X	406	40.425	27.510	39.836	0.00	0.00
ATOM	6100	HD2	PRO	X	406	41.332	27.907	39.378	0.00	0.00
ATOM	6101	HD3	PRO	X	406	40.578	26.504	40.226	0.00	0.00
ATOM	6102	CG	PRO	X	406	39.948	28.383	40.966	0.00	0.00
ATOM	6103	HG2	PRO	X	406	40.749	28.804	41.573	0.00	0.00
ATOM	6104	HG3	PRO	X	406	39.092	27.981	41.510	0.00	0.00
ATOM	6105	CB	PRO	X	406	39.351	29.457	40.052	0.00	0.00
ATOM	6106	HB2	PRO	X	406	40.073	30.072	39.514	0.00	0.00
ATOM	6107	HB3	PRO	X	406	38.749	30.142	40.650	0.00	0.00
ATOM	6108	CA	PRO	X	406	38.690	28.698	38.985	0.00	0.00
ATOM	6109	HA	PRO	X	406	37.723	28.445	39.419	0.00	0.00
ATOM	6110	C	PRO	X	406	38.422	29.541	37.702	0.00	0.00
ATOM	6111	O	PRO	X	406	37.323	29.834	37.304	0.00	0.00
ATOM	6112	N	VAL	X	407	39.482	29.738	36.882	0.00	0.00
ATOM	6113	H	VAL	X	407	40.351	29.367	37.239	0.00	0.00
ATOM	6114	CA	VAL	X	407	39.427	30.364	35.536	0.00	0.00
ATOM	6115	HA	VAL	X	407	38.733	31.186	35.714	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.836	30.872	35.017	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.508	30.016	35.069	0.00	0.00
ATOM	6118	CG1	VAL	X	407	40.716	31.455	33.618	0.00	0.00
ATOM	6119	HG11	VAL	X	407	41.643	31.995	33.426	0.00	0.00
ATOM	6120	HG12	VAL	X	407	40.609	30.620	32.926	0.00	0.00
ATOM	6121	HG13	VAL	X	407	39.874	32.146	33.581	0.00	0.00
ATOM	6122	CG2	VAL	X	407	41.334	31.988	35.998	0.00	0.00
ATOM	6123	HG21	VAL	X	407	40.687	32.859	35.896	0.00	0.00
ATOM	6124	HG22	VAL	X	407	41.574	31.587	36.983	0.00	0.00
ATOM	6125	HG23	VAL	X	407	42.295	32.365	35.649	0.00	0.00
ATOM	6126	C	VAL	X	407	38.623	29.538	34.466	0.00	0.00
ATOM	6127	O	VAL	X	407	37.851	30.186	33.798	0.00	0.00
ATOM	6128	N	ALA	X	408	38.653	28.167	34.357	0.00	0.00
ATOM	6129	H	ALA	X	408	39.303	27.691	34.967	0.00	0.00
ATOM	6130	CA	ALA	X	408	37.676	27.441	33.571	0.00	0.00
ATOM	6131	HA	ALA	X	408	37.705	27.746	32.525	0.00	0.00
ATOM	6132	CB	ALA	X	408	38.119	25.922	33.546	0.00	0.00
ATOM	6133	HB1	ALA	X	408	37.987	25.482	34.535	0.00	0.00
ATOM	6134	HB2	ALA	X	408	37.635	25.367	32.743	0.00	0.00
ATOM	6135	HB3	ALA	X	408	39.177	25.979	33.289	0.00	0.00
ATOM	6136	C	ALA	X	408	36.227	27.584	34.294	0.00	0.00
ATOM	6137	O	ALA	X	408	35.203	27.427	33.634	0.00	0.00
ATOM	6138	N	GLN	X	409	36.077	27.787	35.585	0.00	0.00
ATOM	6139	H	GLN	X	409	36.869	27.998	36.176	0.00	0.00
ATOM	6140	CA	GLN	X	409	34.735	27.843	36.153	0.00	0.00
ATOM	6141	HA	GLN	X	409	34.125	27.065	35.694	0.00	0.00
ATOM	6142	CB	GLN	X	409	34.878	27.438	37.606	0.00	0.00
ATOM	6143	HB2	GLN	X	409	35.143	26.384	37.689	0.00	0.00
ATOM	6144	HB3	GLN	X	409	35.652	27.961	38.168	0.00	0.00
ATOM	6145	CG	GLN	X	409	33.563	27.626	38.487	0.00	0.00
ATOM	6146	HG2	GLN	X	409	33.478	28.699	38.660	0.00	0.00
ATOM	6147	HG3	GLN	X	409	32.709	27.191	37.967	0.00	0.00
ATOM	6148	CD	GLN	X	409	33.761	26.938	39.812	0.00	0.00
ATOM	6149	OE1	GLN	X	409	33.694	27.499	40.877	0.00	0.00
ATOM	6150	NE2	GLN	X	409	34.006	25.634	39.875	0.00	0.00
ATOM	6151	HE21	GLN	X	409	34.219	25.178	40.750	0.00	0.00
ATOM	6152	HE22	GLN	X	409	34.002	25.107	39.013	0.00	0.00
ATOM	6153	C	GLN	X	409	34.172	29.246	35.954	0.00	0.00
ATOM	6154	O	GLN	X	409	32.944	29.402	35.868	0.00	0.00
ATOM	6155	N	LEU	X	410	34.975	30.319	35.918	0.00	0.00
ATOM	6156	H	LEU	X	410	35.970	30.148	35.953	0.00	0.00
ATOM	6157	CA	LEU	X	410	34.479	31.698	35.741	0.00	0.00
ATOM	6158	HA	LEU	X	410	33.839	32.067	36.543	0.00	0.00

ATOM	6159	CB	LEU	X	410	35.659	32.570	35.853	0.00	0.00
ATOM	6160	HB2	LEU	X	410	36.003	32.492	36.884	0.00	0.00
ATOM	6161	HB3	LEU	X	410	36.505	32.098	35.354	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.563	34.059	35.504	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.166	34.072	34.489	0.00	0.00
ATOM	6164	CD1	LEU	X	410	34.668	34.842	36.553	0.00	0.00
ATOM	6165	HD11	LEU	X	410	33.659	34.429	36.551	0.00	0.00
ATOM	6166	HD12	LEU	X	410	35.030	34.808	37.580	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.515	35.862	36.202	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.952	34.692	35.468	0.00	0.00
ATOM	6169	HD21	LEU	X	410	37.212	34.855	36.514	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.746	34.102	35.009	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.925	35.576	34.831	0.00	0.00
ATOM	6172	C	LEU	X	410	33.930	31.775	34.296	0.00	0.00
ATOM	6173	O	LEU	X	410	32.842	32.262	34.099	0.00	0.00
ATOM	6174	N	ALA	X	411	34.682	31.171	33.310	0.00	0.00
ATOM	6175	H	ALA	X	411	35.600	30.806	33.521	0.00	0.00
ATOM	6176	CA	ALA	X	411	34.131	31.093	31.920	0.00	0.00
ATOM	6177	HA	ALA	X	411	33.872	32.126	31.684	0.00	0.00
ATOM	6178	CB	ALA	X	411	35.205	30.483	30.984	0.00	0.00
ATOM	6179	HB1	ALA	X	411	35.866	31.309	30.721	0.00	0.00
ATOM	6180	HB2	ALA	X	411	35.607	29.639	31.544	0.00	0.00
ATOM	6181	HB3	ALA	X	411	34.661	30.220	30.077	0.00	0.00
ATOM	6182	C	ALA	X	411	32.800	30.348	31.878	0.00	0.00
ATOM	6183	O	ALA	X	411	31.749	30.788	31.270	0.00	0.00
ATOM	6184	N	GLY	X	412	32.749	29.269	32.607	0.00	0.00
ATOM	6185	H	GLY	X	412	33.539	28.948	33.148	0.00	0.00
ATOM	6186	CA	GLY	X	412	31.587	28.339	32.576	0.00	0.00
ATOM	6187	HA2	GLY	X	412	31.347	28.147	31.443	0.00	0.00
ATOM	6188	HA3	GLY	X	412	32.011	27.528	33.206	0.00	0.00
ATOM	6189	C	GLY	X	412	30.335	28.725	33.284	0.00	0.00
ATOM	6190	O	GLY	X	412	29.232	28.467	32.731	0.00	0.00
ATOM	6191	N	ARG	X	413	30.481	29.424	34.480	0.00	0.00
ATOM	6192	H	ARG	X	413	31.381	29.388	34.937	0.00	0.00
ATOM	6193	CA	ARG	X	413	29.352	30.101	35.162	0.00	0.00
ATOM	6194	HA	ARG	X	413	28.533	29.391	35.275	0.00	0.00
ATOM	6195	CB	ARG	X	413	29.886	30.624	36.535	0.00	0.00
ATOM	6196	HB2	ARG	X	413	30.774	31.255	36.486	0.00	0.00
ATOM	6197	HB3	ARG	X	413	28.963	30.965	37.002	0.00	0.00
ATOM	6198	CG	ARG	X	413	30.302	29.405	37.360	0.00	0.00
ATOM	6199	HG2	ARG	X	413	30.912	28.685	36.814	0.00	0.00
ATOM	6200	HG3	ARG	X	413	30.802	29.741	38.269	0.00	0.00
ATOM	6201	CD	ARG	X	413	29.025	28.550	37.750	0.00	0.00
ATOM	6202	HD2	ARG	X	413	28.203	29.178	38.094	0.00	0.00
ATOM	6203	HD3	ARG	X	413	28.759	28.032	36.829	0.00	0.00
ATOM	6204	NE	ARG	X	413	29.224	27.656	38.914	0.00	0.00
ATOM	6205	HE	ARG	X	413	29.579	28.017	39.788	0.00	0.00
ATOM	6206	CZ	ARG	X	413	28.850	26.361	39.022	0.00	0.00
ATOM	6207	NH1	ARG	X	413	28.175	25.691	38.101	0.00	0.00
ATOM	6208	HH11	ARG	X	413	27.769	26.253	37.366	0.00	0.00
ATOM	6209	HH12	ARG	X	413	27.833	24.754	38.260	0.00	0.00
ATOM	6210	NH2	ARG	X	413	29.114	25.722	40.145	0.00	0.00
ATOM	6211	HH21	ARG	X	413	29.708	26.137	40.848	0.00	0.00
ATOM	6212	HH22	ARG	X	413	28.681	24.817	40.261	0.00	0.00
ATOM	6213	C	ARG	X	413	28.844	31.251	34.254	0.00	0.00
ATOM	6214	O	ARG	X	413	27.703	31.222	33.829	0.00	0.00
ATOM	6215	N	LEU	X	414	29.740	32.080	33.739	0.00	0.00
ATOM	6216	H	LEU	X	414	30.720	32.042	33.982	0.00	0.00
ATOM	6217	CA	LEU	X	414	29.430	33.234	32.897	0.00	0.00
ATOM	6218	HA	LEU	X	414	28.781	33.881	33.486	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.745	34.018	32.574	0.00	0.00
ATOM	6220	HB2	LEU	X	414	31.421	33.354	32.033	0.00	0.00
ATOM	6221	HB3	LEU	X	414	30.580	34.768	31.801	0.00	0.00
ATOM	6222	CG	LEU	X	414	31.337	34.771	33.818	0.00	0.00
ATOM	6223	HG	LEU	X	414	31.470	34.161	34.711	0.00	0.00
ATOM	6224	CD1	LEU	X	414	32.749	35.363	33.427	0.00	0.00
ATOM	6225	HD11	LEU	X	414	33.434	34.532	33.256	0.00	0.00
ATOM	6226	HD12	LEU	X	414	32.658	35.982	32.535	0.00	0.00
ATOM	6227	HD13	LEU	X	414	33.059	36.162	34.100	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.546	35.938	34.330	0.00	0.00

ATOM	6229	HD21	LEU	X	414	30.694	36.672	33.538	0.00	0.00
ATOM	6230	HD22	LEU	X	414	29.473	35.772	34.436	0.00	0.00
ATOM	6231	HD23	LEU	X	414	30.939	36.343	35.263	0.00	0.00
ATOM	6232	C	LEU	X	414	28.608	32.960	31.604	0.00	0.00
ATOM	6233	O	LEU	X	414	27.511	33.493	31.422	0.00	0.00
ATOM	6234	N	ALA	X	415	29.179	32.068	30.816	0.00	0.00
ATOM	6235	H	ALA	X	415	30.132	31.778	30.980	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.650	31.702	29.513	0.00	0.00
ATOM	6237	HA	ALA	X	415	28.481	32.589	28.902	0.00	0.00
ATOM	6238	CB	ALA	X	415	29.714	30.869	28.703	0.00	0.00
ATOM	6239	HB1	ALA	X	415	29.332	30.787	27.686	0.00	0.00
ATOM	6240	HB2	ALA	X	415	30.684	31.366	28.714	0.00	0.00
ATOM	6241	HB3	ALA	X	415	29.821	29.855	29.088	0.00	0.00
ATOM	6242	C	ALA	X	415	27.258	31.023	29.542	0.00	0.00
ATOM	6243	O	ALA	X	415	26.439	31.357	28.705	0.00	0.00
ATOM	6244	N	ALA	X	416	26.863	30.385	30.614	0.00	0.00
ATOM	6245	H	ALA	X	416	27.570	30.005	31.227	0.00	0.00
ATOM	6246	CA	ALA	X	416	25.529	30.007	30.869	0.00	0.00
ATOM	6247	HA	ALA	X	416	25.049	29.646	29.959	0.00	0.00
ATOM	6248	CB	ALA	X	416	25.500	28.690	31.748	0.00	0.00
ATOM	6249	HB1	ALA	X	416	24.508	28.254	31.639	0.00	0.00
ATOM	6250	HB2	ALA	X	416	26.291	27.998	31.460	0.00	0.00
ATOM	6251	HB3	ALA	X	416	25.618	28.905	32.810	0.00	0.00
ATOM	6252	C	ALA	X	416	24.613	31.088	31.448	0.00	0.00
ATOM	6253	O	ALA	X	416	23.453	31.149	31.089	0.00	0.00
ATOM	6254	N	GLN	X	417	25.146	31.696	32.493	0.00	0.00
ATOM	6255	H	GLN	X	417	26.098	31.557	32.798	0.00	0.00
ATOM	6256	CA	GLN	X	417	24.359	32.658	33.363	0.00	0.00
ATOM	6257	HA	GLN	X	417	23.345	32.275	33.479	0.00	0.00
ATOM	6258	CB	GLN	X	417	24.920	32.617	34.795	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.003	32.718	34.870	0.00	0.00
ATOM	6260	HB3	GLN	X	417	24.493	33.490	35.289	0.00	0.00
ATOM	6261	CG	GLN	X	417	24.583	31.323	35.500	0.00	0.00
ATOM	6262	HG2	GLN	X	417	23.587	31.339	35.942	0.00	0.00
ATOM	6263	HG3	GLN	X	417	24.642	30.504	34.783	0.00	0.00
ATOM	6264	CD	GLN	X	417	25.537	31.043	36.602	0.00	0.00
ATOM	6265	OE1	GLN	X	417	26.055	29.946	36.796	0.00	0.00
ATOM	6266	NE2	GLN	X	417	25.882	31.942	37.542	0.00	0.00
ATOM	6267	HE21	GLN	X	417	26.682	31.781	38.138	0.00	0.00
ATOM	6268	HE22	GLN	X	417	25.429	32.842	37.477	0.00	0.00
ATOM	6269	C	GLN	X	417	24.226	34.082	32.710	0.00	0.00
ATOM	6270	O	GLN	X	417	23.579	34.885	33.319	0.00	0.00
ATOM	6271	N	GLY	X	418	24.820	34.352	31.526	0.00	0.00
ATOM	6272	H	GLY	X	418	25.383	33.598	31.158	0.00	0.00
ATOM	6273	CA	GLY	X	418	24.340	35.299	30.534	0.00	0.00
ATOM	6274	HA2	GLY	X	418	24.008	34.760	29.679	0.00	0.00
ATOM	6275	HA3	GLY	X	418	23.368	35.781	30.983	0.00	0.00
ATOM	6276	C	GLY	X	418	25.321	36.299	29.956	0.00	0.00
ATOM	6277	O	GLY	X	418	24.963	37.199	29.171	0.00	0.00
ATOM	6278	N	ALA	X	419	26.625	36.154	30.416	0.00	0.00
ATOM	6279	H	ALA	X	419	26.932	35.393	31.004	0.00	0.00
ATOM	6280	CA	ALA	X	419	27.694	36.977	29.870	0.00	0.00
ATOM	6281	HA	ALA	X	419	27.207	37.932	29.671	0.00	0.00
ATOM	6282	CB	ALA	X	419	28.788	37.249	30.879	0.00	0.00
ATOM	6283	HB1	ALA	X	419	28.375	37.458	31.865	0.00	0.00
ATOM	6284	HB2	ALA	X	419	29.344	36.386	31.245	0.00	0.00
ATOM	6285	HB3	ALA	X	419	29.423	38.080	30.571	0.00	0.00
ATOM	6286	C	ALA	X	419	28.369	36.241	28.683	0.00	0.00
ATOM	6287	O	ALA	X	419	28.370	34.986	28.541	0.00	0.00
ATOM	6288	N	ARG	X	420	29.025	37.173	27.913	0.00	0.00
ATOM	6289	H	ARG	X	420	28.931	38.160	28.105	0.00	0.00
ATOM	6290	CA	ARG	X	420	29.881	36.824	26.818	0.00	0.00
ATOM	6291	HA	ARG	X	420	29.552	35.860	26.431	0.00	0.00
ATOM	6292	CB	ARG	X	420	29.660	37.956	25.832	0.00	0.00
ATOM	6293	HB2	ARG	X	420	28.608	38.132	25.609	0.00	0.00
ATOM	6294	HB3	ARG	X	420	30.100	38.884	26.197	0.00	0.00
ATOM	6295	CG	ARG	X	420	30.387	37.728	24.534	0.00	0.00
ATOM	6296	HG2	ARG	X	420	31.459	37.635	24.707	0.00	0.00
ATOM	6297	HG3	ARG	X	420	29.997	36.822	24.071	0.00	0.00
ATOM	6298	CD	ARG	X	420	30.087	38.914	23.614	0.00	0.00

ATOM	6299	HD2	ARG	X	420	29.024	39.144	23.546	0.00	0.00
ATOM	6300	HD3	ARG	X	420	30.580	39.809	23.993	0.00	0.00
ATOM	6301	NE	ARG	X	420	30.531	38.722	22.187	0.00	0.00
ATOM	6302	HE	ARG	X	420	31.180	39.353	21.739	0.00	0.00
ATOM	6303	CZ	ARG	X	420	29.784	38.101	21.266	0.00	0.00
ATOM	6304	NH1	ARG	X	420	28.793	37.347	21.651	0.00	0.00
ATOM	6305	HH11	ARG	X	420	28.452	37.394	22.600	0.00	0.00
ATOM	6306	HH12	ARG	X	420	28.344	36.709	21.009	0.00	0.00
ATOM	6307	NH2	ARG	X	420	30.090	38.227	19.988	0.00	0.00
ATOM	6308	HH21	ARG	X	420	30.832	38.847	19.696	0.00	0.00
ATOM	6309	HH22	ARG	X	420	29.509	37.787	19.288	0.00	0.00
ATOM	6310	C	ARG	X	420	31.311	36.700	27.350	0.00	0.00
ATOM	6311	O	ARG	X	420	31.840	37.676	27.828	0.00	0.00
ATOM	6312	N	VAL	X	421	32.015	35.626	27.140	0.00	0.00
ATOM	6313	H	VAL	X	421	31.535	34.845	26.718	0.00	0.00
ATOM	6314	CA	VAL	X	421	33.343	35.245	27.673	0.00	0.00
ATOM	6315	HA	VAL	X	421	33.636	35.978	28.425	0.00	0.00
ATOM	6316	CB	VAL	X	421	33.348	33.851	28.379	0.00	0.00
ATOM	6317	HB	VAL	X	421	32.800	33.152	27.748	0.00	0.00
ATOM	6318	CG1	VAL	X	421	34.768	33.413	28.653	0.00	0.00
ATOM	6319	HG11	VAL	X	421	35.265	34.187	29.238	0.00	0.00
ATOM	6320	HG12	VAL	X	421	34.681	32.536	29.294	0.00	0.00
ATOM	6321	HG13	VAL	X	421	35.291	32.969	27.806	0.00	0.00
ATOM	6322	CG2	VAL	X	421	32.544	33.985	29.702	0.00	0.00
ATOM	6323	HG21	VAL	X	421	33.015	34.692	30.385	0.00	0.00
ATOM	6324	HG22	VAL	X	421	31.501	34.270	29.558	0.00	0.00
ATOM	6325	HG23	VAL	X	421	32.543	33.010	30.189	0.00	0.00
ATOM	6326	C	VAL	X	421	34.242	35.158	26.453	0.00	0.00
ATOM	6327	O	VAL	X	421	33.830	34.571	25.428	0.00	0.00
ATOM	6328	N	TYR	X	422	35.507	35.624	26.662	0.00	0.00
ATOM	6329	H	TYR	X	422	35.692	36.135	27.514	0.00	0.00
ATOM	6330	CA	TYR	X	422	36.623	35.479	25.753	0.00	0.00
ATOM	6331	HA	TYR	X	422	36.386	34.802	24.932	0.00	0.00
ATOM	6332	CB	TYR	X	422	36.875	36.786	24.985	0.00	0.00
ATOM	6333	HB2	TYR	X	422	36.936	37.626	25.677	0.00	0.00
ATOM	6334	HB3	TYR	X	422	37.863	36.660	24.544	0.00	0.00
ATOM	6335	CG	TYR	X	422	35.815	37.056	24.023	0.00	0.00
ATOM	6336	CD1	TYR	X	422	35.919	36.469	22.775	0.00	0.00
ATOM	6337	HD1	TYR	X	422	36.847	35.983	22.509	0.00	0.00
ATOM	6338	CE1	TYR	X	422	34.916	36.775	21.774	0.00	0.00
ATOM	6339	HE1	TYR	X	422	35.060	36.414	20.766	0.00	0.00
ATOM	6340	CZ	TYR	X	422	33.915	37.732	22.020	0.00	0.00
ATOM	6341	OH	TYR	X	422	33.078	38.096	21.066	0.00	0.00
ATOM	6342	HH	TYR	X	422	33.018	37.574	20.263	0.00	0.00
ATOM	6343	CE2	TYR	X	422	33.804	38.301	23.332	0.00	0.00
ATOM	6344	HE2	TYR	X	422	32.944	38.934	23.492	0.00	0.00
ATOM	6345	CD2	TYR	X	422	34.727	37.916	24.307	0.00	0.00
ATOM	6346	HD2	TYR	X	422	34.562	38.433	25.241	0.00	0.00
ATOM	6347	C	TYR	X	422	37.740	34.861	26.508	0.00	0.00
ATOM	6348	O	TYR	X	422	38.438	35.617	27.249	0.00	0.00
ATOM	6349	N	ALA	X	423	38.101	33.568	26.315	0.00	0.00
ATOM	6350	H	ALA	X	423	37.760	33.076	25.501	0.00	0.00
ATOM	6351	CA	ALA	X	423	39.208	32.875	27.040	0.00	0.00
ATOM	6352	HA	ALA	X	423	39.492	33.342	27.984	0.00	0.00
ATOM	6353	CB	ALA	X	423	38.767	31.440	27.241	0.00	0.00
ATOM	6354	HB1	ALA	X	423	38.557	30.909	26.313	0.00	0.00
ATOM	6355	HB2	ALA	X	423	39.488	30.877	27.835	0.00	0.00
ATOM	6356	HB3	ALA	X	423	37.875	31.551	27.857	0.00	0.00
ATOM	6357	C	ALA	X	423	40.528	32.814	26.200	0.00	0.00
ATOM	6358	O	ALA	X	423	40.487	32.641	25.009	0.00	0.00
ATOM	6359	N	TYR	X	424	41.672	32.802	26.864	0.00	0.00
ATOM	6360	H	TYR	X	424	41.642	32.877	27.871	0.00	0.00
ATOM	6361	CA	TYR	X	424	42.979	32.634	26.303	0.00	0.00
ATOM	6362	HA	TYR	X	424	42.842	31.872	25.536	0.00	0.00
ATOM	6363	CB	TYR	X	424	43.626	33.978	25.779	0.00	0.00
ATOM	6364	HB2	TYR	X	424	44.453	33.940	25.069	0.00	0.00
ATOM	6365	HB3	TYR	X	424	42.876	34.462	25.154	0.00	0.00
ATOM	6366	CG	TYR	X	424	44.079	34.975	26.900	0.00	0.00
ATOM	6367	CD1	TYR	X	424	45.409	35.133	27.382	0.00	0.00
ATOM	6368	HD1	TYR	X	424	46.237	34.709	26.835	0.00	0.00

ATOM	6369	CE1	TYR	X	424	45.671	35.718	28.626	0.00	0.00
ATOM	6370	HE1	TYR	X	424	46.684	35.880	28.962	0.00	0.00
ATOM	6371	CZ	TYR	X	424	44.692	36.411	29.272	0.00	0.00
ATOM	6372	OH	TYR	X	424	44.989	37.119	30.401	0.00	0.00
ATOM	6373	HH	TYR	X	424	45.923	37.340	30.446	0.00	0.00
ATOM	6374	CE2	TYR	X	424	43.351	36.312	28.824	0.00	0.00
ATOM	6375	HE2	TYR	X	424	42.549	36.800	29.357	0.00	0.00
ATOM	6376	CD2	TYR	X	424	43.073	35.442	27.736	0.00	0.00
ATOM	6377	HD2	TYR	X	424	42.039	35.339	27.443	0.00	0.00
ATOM	6378	C	TYR	X	424	44.034	31.954	27.226	0.00	0.00
ATOM	6379	O	TYR	X	424	44.050	32.025	28.459	0.00	0.00
ATOM	6380	N	VAL	X	425	44.996	31.279	26.665	0.00	0.00
ATOM	6381	H	VAL	X	425	44.862	30.990	25.706	0.00	0.00
ATOM	6382	CA	VAL	X	425	46.348	31.049	27.221	0.00	0.00
ATOM	6383	HA	VAL	X	425	46.391	31.453	28.233	0.00	0.00
ATOM	6384	CB	VAL	X	425	46.519	29.521	27.346	0.00	0.00
ATOM	6385	HB	VAL	X	425	46.374	29.128	26.340	0.00	0.00
ATOM	6386	CG1	VAL	X	425	47.969	29.219	27.772	0.00	0.00
ATOM	6387	HG11	VAL	X	425	48.035	28.193	28.132	0.00	0.00
ATOM	6388	HG12	VAL	X	425	48.693	29.445	26.989	0.00	0.00
ATOM	6389	HG13	VAL	X	425	48.206	29.829	28.643	0.00	0.00
ATOM	6390	CG2	VAL	X	425	45.499	28.818	28.361	0.00	0.00
ATOM	6391	HG21	VAL	X	425	46.041	28.067	28.935	0.00	0.00
ATOM	6392	HG22	VAL	X	425	44.903	29.556	28.897	0.00	0.00
ATOM	6393	HG23	VAL	X	425	44.821	28.172	27.802	0.00	0.00
ATOM	6394	C	VAL	X	425	47.432	31.791	26.439	0.00	0.00
ATOM	6395	O	VAL	X	425	47.509	31.810	25.233	0.00	0.00
ATOM	6396	N	PHE	X	426	48.331	32.355	27.191	0.00	0.00
ATOM	6397	H	PHE	X	426	48.322	32.291	28.199	0.00	0.00
ATOM	6398	CA	PHE	X	426	49.584	33.004	26.728	0.00	0.00
ATOM	6399	HA	PHE	X	426	49.548	33.343	25.692	0.00	0.00
ATOM	6400	CB	PHE	X	426	49.669	34.366	27.477	0.00	0.00
ATOM	6401	HB2	PHE	X	426	48.817	34.985	27.196	0.00	0.00
ATOM	6402	HB3	PHE	X	426	49.622	34.052	28.520	0.00	0.00
ATOM	6403	CG	PHE	X	426	50.791	35.365	27.263	0.00	0.00
ATOM	6404	CD1	PHE	X	426	50.663	36.435	26.403	0.00	0.00
ATOM	6405	HD1	PHE	X	426	49.691	36.590	25.960	0.00	0.00
ATOM	6406	CE1	PHE	X	426	51.728	37.243	25.999	0.00	0.00
ATOM	6407	HE1	PHE	X	426	51.570	38.040	25.288	0.00	0.00
ATOM	6408	CZ	PHE	X	426	52.981	36.912	26.515	0.00	0.00
ATOM	6409	HZ	PHE	X	426	53.879	37.496	26.375	0.00	0.00
ATOM	6410	CE2	PHE	X	426	53.105	35.940	27.534	0.00	0.00
ATOM	6411	HE2	PHE	X	426	54.097	35.640	27.837	0.00	0.00
ATOM	6412	CD2	PHE	X	426	52.028	35.153	27.981	0.00	0.00
ATOM	6413	HD2	PHE	X	426	52.249	34.339	28.655	0.00	0.00
ATOM	6414	C	PHE	X	426	50.789	32.133	26.853	0.00	0.00
ATOM	6415	O	PHE	X	426	51.094	31.597	27.967	0.00	0.00
ATOM	6416	N	GLU	X	427	51.321	31.687	25.675	0.00	0.00
ATOM	6417	H	GLU	X	427	50.988	32.027	24.784	0.00	0.00
ATOM	6418	CA	GLU	X	427	52.295	30.614	25.597	0.00	0.00
ATOM	6419	HA	GLU	X	427	52.457	30.240	26.608	0.00	0.00
ATOM	6420	CB	GLU	X	427	51.754	29.536	24.593	0.00	0.00
ATOM	6421	HB2	GLU	X	427	51.750	29.909	23.569	0.00	0.00
ATOM	6422	HB3	GLU	X	427	52.556	28.805	24.696	0.00	0.00
ATOM	6423	CG	GLU	X	427	50.462	28.921	25.009	0.00	0.00
ATOM	6424	HG2	GLU	X	427	50.552	28.707	26.074	0.00	0.00
ATOM	6425	HG3	GLU	X	427	49.606	29.568	24.818	0.00	0.00
ATOM	6426	CD	GLU	X	427	50.144	27.526	24.278	0.00	0.00
ATOM	6427	OE1	GLU	X	427	50.340	27.435	23.040	0.00	0.00
ATOM	6428	OE2	GLU	X	427	49.741	26.617	25.041	0.00	0.00
ATOM	6429	C	GLU	X	427	53.743	31.136	25.135	0.00	0.00
ATOM	6430	O	GLU	X	427	54.691	30.346	25.035	0.00	0.00
ATOM	6431	N	HIE	X	428	53.799	32.449	24.805	0.00	0.00
ATOM	6432	H	HIE	X	428	52.983	33.045	24.778	0.00	0.00
ATOM	6433	CA	HIE	X	428	55.177	33.030	24.471	0.00	0.00
ATOM	6434	HA	HIE	X	428	55.723	32.284	23.893	0.00	0.00
ATOM	6435	CB	HIE	X	428	55.111	34.323	23.663	0.00	0.00
ATOM	6436	HB2	HIE	X	428	54.814	34.090	22.641	0.00	0.00
ATOM	6437	HB3	HIE	X	428	54.411	35.000	24.153	0.00	0.00
ATOM	6438	CG	HIE	X	428	56.480	34.973	23.370	0.00	0.00

ATOM	6439	ND1	HIE	X	428	57.532	34.291	22.699	0.00	0.00
ATOM	6440	CE1	HIE	X	428	58.566	35.155	22.682	0.00	0.00
ATOM	6441	HE1	HIE	X	428	59.558	34.828	22.406	0.00	0.00
ATOM	6442	NE2	HIE	X	428	58.235	36.332	23.297	0.00	0.00
ATOM	6443	HE2	HIE	X	428	58.786	37.153	23.504	0.00	0.00
ATOM	6444	CD2	HIE	X	428	56.930	36.178	23.805	0.00	0.00
ATOM	6445	HD2	HIE	X	428	56.334	36.906	24.336	0.00	0.00
ATOM	6446	C	HIE	X	428	56.077	33.148	25.699	0.00	0.00
ATOM	6447	O	HIE	X	428	55.605	33.815	26.656	0.00	0.00
ATOM	6448	N	ARG	X	429	57.323	32.647	25.710	0.00	0.00
ATOM	6449	H	ARG	X	429	57.574	31.980	24.994	0.00	0.00
ATOM	6450	CA	ARG	X	429	58.297	33.020	26.701	0.00	0.00
ATOM	6451	HA	ARG	X	429	57.786	33.353	27.604	0.00	0.00
ATOM	6452	CB	ARG	X	429	59.114	31.817	27.220	0.00	0.00
ATOM	6453	HB2	ARG	X	429	58.502	31.066	27.720	0.00	0.00
ATOM	6454	HB3	ARG	X	429	59.653	31.386	26.377	0.00	0.00
ATOM	6455	CG	ARG	X	429	60.156	32.308	28.259	0.00	0.00
ATOM	6456	HG2	ARG	X	429	60.977	32.954	27.947	0.00	0.00
ATOM	6457	HG3	ARG	X	429	59.591	32.967	28.919	0.00	0.00
ATOM	6458	CD	ARG	X	429	60.777	31.114	29.000	0.00	0.00
ATOM	6459	HD2	ARG	X	429	59.965	30.426	29.237	0.00	0.00
ATOM	6460	HD3	ARG	X	429	61.488	30.567	28.380	0.00	0.00
ATOM	6461	NE	ARG	X	429	61.420	31.509	30.267	0.00	0.00
ATOM	6462	HE	ARG	X	429	60.973	31.266	31.140	0.00	0.00
ATOM	6463	CZ	ARG	X	429	62.610	32.040	30.430	0.00	0.00
ATOM	6464	NH1	ARG	X	429	63.407	32.279	29.429	0.00	0.00
ATOM	6465	HH11	ARG	X	429	63.155	32.085	28.471	0.00	0.00
ATOM	6466	HH12	ARG	X	429	64.281	32.705	29.700	0.00	0.00
ATOM	6467	NH2	ARG	X	429	63.112	32.352	31.618	0.00	0.00
ATOM	6468	HH21	ARG	X	429	62.569	32.014	32.400	0.00	0.00
ATOM	6469	HH22	ARG	X	429	64.053	32.715	31.681	0.00	0.00
ATOM	6470	C	ARG	X	429	59.155	34.192	26.196	0.00	0.00
ATOM	6471	O	ARG	X	429	59.964	34.010	25.279	0.00	0.00
ATOM	6472	N	ALA	X	430	58.982	35.383	26.822	0.00	0.00
ATOM	6473	H	ALA	X	430	58.232	35.367	27.498	0.00	0.00
ATOM	6474	CA	ALA	X	430	59.561	36.677	26.465	0.00	0.00
ATOM	6475	HA	ALA	X	430	59.282	36.934	25.444	0.00	0.00
ATOM	6476	CB	ALA	X	430	58.974	37.794	27.253	0.00	0.00
ATOM	6477	HB1	ALA	X	430	57.886	37.819	27.308	0.00	0.00
ATOM	6478	HB2	ALA	X	430	59.389	37.707	28.258	0.00	0.00
ATOM	6479	HB3	ALA	X	430	59.342	38.734	26.841	0.00	0.00
ATOM	6480	C	ALA	X	430	61.153	36.590	26.468	0.00	0.00
ATOM	6481	O	ALA	X	430	61.816	35.985	27.298	0.00	0.00
ATOM	6482	N	SER	X	431	61.776	37.388	25.577	0.00	0.00
ATOM	6483	H	SER	X	431	61.170	37.899	24.951	0.00	0.00
ATOM	6484	CA	SER	X	431	63.213	37.723	25.555	0.00	0.00
ATOM	6485	HA	SER	X	431	63.750	36.800	25.339	0.00	0.00
ATOM	6486	CB	SER	X	431	63.647	38.738	24.426	0.00	0.00
ATOM	6487	HB2	SER	X	431	64.728	38.870	24.383	0.00	0.00
ATOM	6488	HB3	SER	X	431	63.399	38.343	23.440	0.00	0.00
ATOM	6489	OG	SER	X	431	63.070	40.030	24.671	0.00	0.00
ATOM	6490	HG	SER	X	431	62.339	40.153	24.062	0.00	0.00
ATOM	6491	C	SER	X	431	63.700	38.252	26.970	0.00	0.00
ATOM	6492	O	SER	X	431	64.729	37.817	27.467	0.00	0.00
ATOM	6493	N	THR	X	432	63.008	39.256	27.436	0.00	0.00
ATOM	6494	H	THR	X	432	62.187	39.549	26.926	0.00	0.00
ATOM	6495	CA	THR	X	432	63.121	39.876	28.800	0.00	0.00
ATOM	6496	HA	THR	X	432	64.124	40.270	28.968	0.00	0.00
ATOM	6497	CB	THR	X	432	62.149	40.995	29.031	0.00	0.00
ATOM	6498	HB	THR	X	432	62.285	41.344	30.054	0.00	0.00
ATOM	6499	CG2	THR	X	432	62.596	42.213	28.234	0.00	0.00
ATOM	6500	HG21	THR	X	432	63.659	42.433	28.327	0.00	0.00
ATOM	6501	HG22	THR	X	432	62.417	42.040	27.173	0.00	0.00
ATOM	6502	HG23	THR	X	432	62.056	43.131	28.463	0.00	0.00
ATOM	6503	OG1	THR	X	432	60.776	40.655	28.750	0.00	0.00
ATOM	6504	HG1	THR	X	432	60.261	41.435	28.967	0.00	0.00
ATOM	6505	C	THR	X	432	62.773	38.912	29.987	0.00	0.00
ATOM	6506	O	THR	X	432	63.215	39.235	31.115	0.00	0.00
ATOM	6507	N	LEU	X	433	62.163	37.706	29.844	0.00	0.00
ATOM	6508	H	LEU	X	433	62.005	37.354	28.911	0.00	0.00

ATOM	6509	CA	LEU	X	433	61.695	36.945	31.011	0.00	0.00
ATOM	6510	HA	LEU	X	433	61.228	37.682	31.664	0.00	0.00
ATOM	6511	CB	LEU	X	433	60.654	35.952	30.564	0.00	0.00
ATOM	6512	HB2	LEU	X	433	60.056	36.490	29.828	0.00	0.00
ATOM	6513	HB3	LEU	X	433	61.028	35.068	30.048	0.00	0.00
ATOM	6514	CG	LEU	X	433	59.840	35.594	31.816	0.00	0.00
ATOM	6515	HG	LEU	X	433	59.839	36.498	32.424	0.00	0.00
ATOM	6516	CD1	LEU	X	433	58.433	35.197	31.213	0.00	0.00
ATOM	6517	HD11	LEU	X	433	57.689	35.075	32.000	0.00	0.00
ATOM	6518	HD12	LEU	X	433	58.048	36.049	30.651	0.00	0.00
ATOM	6519	HD13	LEU	X	433	58.392	34.209	30.754	0.00	0.00
ATOM	6520	CD2	LEU	X	433	60.323	34.524	32.778	0.00	0.00
ATOM	6521	HD21	LEU	X	433	59.489	34.349	33.458	0.00	0.00
ATOM	6522	HD22	LEU	X	433	60.503	33.519	32.395	0.00	0.00
ATOM	6523	HD23	LEU	X	433	61.162	34.927	33.344	0.00	0.00
ATOM	6524	C	LEU	X	433	62.885	36.265	31.690	0.00	0.00
ATOM	6525	O	LEU	X	433	63.674	35.573	31.062	0.00	0.00
ATOM	6526	N	SER	X	434	63.115	36.553	32.994	0.00	0.00
ATOM	6527	H	SER	X	434	62.445	37.162	33.441	0.00	0.00
ATOM	6528	CA	SER	X	434	64.455	36.238	33.615	0.00	0.00
ATOM	6529	HA	SER	X	434	64.941	35.551	32.922	0.00	0.00
ATOM	6530	CB	SER	X	434	65.201	37.504	33.786	0.00	0.00
ATOM	6531	HB2	SER	X	434	64.595	38.189	34.378	0.00	0.00
ATOM	6532	HB3	SER	X	434	66.157	37.348	34.285	0.00	0.00
ATOM	6533	OG	SER	X	434	65.442	38.136	32.525	0.00	0.00
ATOM	6534	HG	SER	X	434	64.557	38.459	32.340	0.00	0.00
ATOM	6535	C	SER	X	434	64.355	35.481	34.940	0.00	0.00
ATOM	6536	O	SER	X	434	65.281	35.420	35.732	0.00	0.00
ATOM	6537	N	TRP	X	435	63.210	34.782	35.077	0.00	0.00
ATOM	6538	H	TRP	X	435	62.495	35.033	34.408	0.00	0.00
ATOM	6539	CA	TRP	X	435	62.982	33.789	36.120	0.00	0.00
ATOM	6540	HA	TRP	X	435	63.239	34.215	37.090	0.00	0.00
ATOM	6541	CB	TRP	X	435	61.489	33.424	36.132	0.00	0.00
ATOM	6542	HB2	TRP	X	435	61.036	33.374	35.142	0.00	0.00
ATOM	6543	HB3	TRP	X	435	61.328	32.433	36.556	0.00	0.00
ATOM	6544	CG	TRP	X	435	60.446	34.402	36.745	0.00	0.00
ATOM	6545	CD1	TRP	X	435	59.895	35.472	36.140	0.00	0.00
ATOM	6546	HD1	TRP	X	435	60.055	35.785	35.119	0.00	0.00
ATOM	6547	NE1	TRP	X	435	58.938	36.005	36.963	0.00	0.00
ATOM	6548	HE1	TRP	X	435	58.256	36.713	36.735	0.00	0.00
ATOM	6549	CE2	TRP	X	435	58.963	35.430	38.226	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	58.312	35.787	39.391	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	57.642	36.631	39.466	0.00	0.00
ATOM	6552	CH2	TRP	X	435	58.629	34.996	40.551	0.00	0.00
ATOM	6553	HH2	TRP	X	435	58.162	35.119	41.516	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	59.591	33.965	40.415	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	59.801	33.379	41.297	0.00	0.00
ATOM	6556	CE3	TRP	X	435	60.319	33.732	39.234	0.00	0.00
ATOM	6557	HE3	TRP	X	435	61.080	32.966	39.219	0.00	0.00
ATOM	6558	CD2	TRP	X	435	59.934	34.392	38.079	0.00	0.00
ATOM	6559	C	TRP	X	435	63.880	32.541	35.857	0.00	0.00
ATOM	6560	O	TRP	X	435	64.254	32.316	34.697	0.00	0.00
ATOM	6561	N	PRO	X	436	64.089	31.677	36.895	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.922	31.978	38.315	0.00	0.00
ATOM	6563	HD2	PRO	X	436	62.871	32.122	38.567	0.00	0.00
ATOM	6564	HD3	PRO	X	436	64.626	32.756	38.609	0.00	0.00
ATOM	6565	CG	PRO	X	436	64.441	30.779	39.173	0.00	0.00
ATOM	6566	HG2	PRO	X	436	63.715	30.555	39.954	0.00	0.00
ATOM	6567	HG3	PRO	X	436	65.382	30.993	39.680	0.00	0.00
ATOM	6568	CB	PRO	X	436	64.597	29.660	38.147	0.00	0.00
ATOM	6569	HB2	PRO	X	436	63.661	29.148	37.920	0.00	0.00
ATOM	6570	HB3	PRO	X	436	65.465	29.031	38.342	0.00	0.00
ATOM	6571	CA	PRO	X	436	64.811	30.413	36.798	0.00	0.00
ATOM	6572	HA	PRO	X	436	65.884	30.510	36.636	0.00	0.00
ATOM	6573	C	PRO	X	436	64.180	29.746	35.646	0.00	0.00
ATOM	6574	O	PRO	X	436	62.954	29.688	35.525	0.00	0.00
ATOM	6575	N	LEU	X	437	65.026	29.116	34.844	0.00	0.00
ATOM	6576	H	LEU	X	437	65.999	29.023	35.098	0.00	0.00
ATOM	6577	CA	LEU	X	437	64.613	28.513	33.586	0.00	0.00
ATOM	6578	HA	LEU	X	437	64.124	29.302	33.014	0.00	0.00

ATOM	6579	CB	LEU	X	437	65.850	28.027	32.887	0.00	0.00
ATOM	6580	HB2	LEU	X	437	66.433	27.409	33.570	0.00	0.00
ATOM	6581	HB3	LEU	X	437	65.637	27.400	32.021	0.00	0.00
ATOM	6582	CG	LEU	X	437	66.864	29.073	32.245	0.00	0.00
ATOM	6583	HG	LEU	X	437	67.099	29.894	32.923	0.00	0.00
ATOM	6584	CD1	LEU	X	437	68.244	28.469	31.758	0.00	0.00
ATOM	6585	HD11	LEU	X	437	68.884	29.171	31.224	0.00	0.00
ATOM	6586	HD12	LEU	X	437	68.551	28.164	32.759	0.00	0.00
ATOM	6587	HD13	LEU	X	437	68.135	27.616	31.088	0.00	0.00
ATOM	6588	CD2	LEU	X	437	66.220	29.740	30.996	0.00	0.00
ATOM	6589	HD21	LEU	X	437	66.671	29.418	30.057	0.00	0.00
ATOM	6590	HD22	LEU	X	437	65.148	29.542	30.988	0.00	0.00
ATOM	6591	HD23	LEU	X	437	66.341	30.823	31.030	0.00	0.00
ATOM	6592	C	LEU	X	437	63.563	27.355	33.653	0.00	0.00
ATOM	6593	O	LEU	X	437	62.671	27.152	32.789	0.00	0.00
ATOM	6594	N	TRP	X	438	63.669	26.530	34.686	0.00	0.00
ATOM	6595	H	TRP	X	438	64.349	26.721	35.408	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.644	25.472	34.884	0.00	0.00
ATOM	6597	HA	TRP	X	438	62.650	24.764	34.055	0.00	0.00
ATOM	6598	CB	TRP	X	438	63.012	24.729	36.137	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.240	23.977	36.297	0.00	0.00
ATOM	6600	HB3	TRP	X	438	63.947	24.202	35.944	0.00	0.00
ATOM	6601	CG	TRP	X	438	63.041	25.545	37.481	0.00	0.00
ATOM	6602	CD1	TRP	X	438	64.078	26.197	38.019	0.00	0.00
ATOM	6603	HD1	TRP	X	438	65.129	26.154	37.775	0.00	0.00
ATOM	6604	NE1	TRP	X	438	63.779	26.788	39.260	0.00	0.00
ATOM	6605	HE1	TRP	X	438	64.482	27.192	39.862	0.00	0.00
ATOM	6606	CE2	TRP	X	438	62.423	26.551	39.530	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	61.620	26.839	40.676	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	62.132	27.280	41.519	0.00	0.00
ATOM	6609	CH2	TRP	X	438	60.249	26.509	40.690	0.00	0.00
ATOM	6610	HH2	TRP	X	438	59.610	26.802	41.509	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	59.720	25.774	39.569	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	58.650	25.649	39.488	0.00	0.00
ATOM	6613	CE3	TRP	X	438	60.582	25.302	38.542	0.00	0.00
ATOM	6614	HE3	TRP	X	438	60.159	24.713	37.742	0.00	0.00
ATOM	6615	CD2	TRP	X	438	61.912	25.734	38.380	0.00	0.00
ATOM	6616	C	TRP	X	438	61.187	26.002	35.005	0.00	0.00
ATOM	6617	O	TRP	X	438	60.218	25.235	34.781	0.00	0.00
ATOM	6618	N	MET	X	439	60.992	27.289	35.387	0.00	0.00
ATOM	6619	H	MET	X	439	61.857	27.758	35.617	0.00	0.00
ATOM	6620	CA	MET	X	439	59.636	27.816	35.693	0.00	0.00
ATOM	6621	HA	MET	X	439	59.023	27.137	36.285	0.00	0.00
ATOM	6622	CB	MET	X	439	59.738	29.063	36.546	0.00	0.00
ATOM	6623	HB2	MET	X	439	60.237	29.865	36.003	0.00	0.00
ATOM	6624	HB3	MET	X	439	58.777	29.489	36.836	0.00	0.00
ATOM	6625	CG	MET	X	439	60.541	28.836	37.779	0.00	0.00
ATOM	6626	HG2	MET	X	439	59.986	28.092	38.351	0.00	0.00
ATOM	6627	HG3	MET	X	439	61.535	28.461	37.537	0.00	0.00
ATOM	6628	SD	MET	X	439	60.585	30.267	38.829	0.00	0.00
ATOM	6629	CE	MET	X	439	58.919	30.490	39.505	0.00	0.00
ATOM	6630	HE1	MET	X	439	58.863	31.335	40.191	0.00	0.00
ATOM	6631	HE2	MET	X	439	58.181	30.759	38.749	0.00	0.00
ATOM	6632	HE3	MET	X	439	58.659	29.515	39.915	0.00	0.00
ATOM	6633	C	MET	X	439	58.718	28.128	34.509	0.00	0.00
ATOM	6634	O	MET	X	439	57.529	28.322	34.737	0.00	0.00
ATOM	6635	N	GLY	X	440	59.176	27.895	33.246	0.00	0.00
ATOM	6636	H	GLY	X	440	60.100	27.498	33.153	0.00	0.00
ATOM	6637	CA	GLY	X	440	58.363	28.047	32.084	0.00	0.00
ATOM	6638	HA2	GLY	X	440	58.893	27.738	31.229	0.00	0.00
ATOM	6639	HA3	GLY	X	440	57.525	27.387	32.160	0.00	0.00
ATOM	6640	C	GLY	X	440	58.088	29.550	31.943	0.00	0.00
ATOM	6641	O	GLY	X	440	58.978	30.403	31.882	0.00	0.00
ATOM	6642	N	VAL	X	441	56.810	29.850	31.936	0.00	0.00
ATOM	6643	H	VAL	X	441	56.206	29.058	32.104	0.00	0.00
ATOM	6644	CA	VAL	X	441	56.215	31.185	31.747	0.00	0.00
ATOM	6645	HA	VAL	X	441	56.974	31.966	31.688	0.00	0.00
ATOM	6646	CB	VAL	X	441	55.325	31.354	30.479	0.00	0.00
ATOM	6647	HB	VAL	X	441	54.382	30.810	30.519	0.00	0.00
ATOM	6648	CG1	VAL	X	441	54.932	32.834	30.374	0.00	0.00

ATOM	6649	HG11	VAL	X	441	54.352	33.035	29.473	0.00	0.00
ATOM	6650	HG12	VAL	X	441	54.271	33.072	31.207	0.00	0.00
ATOM	6651	HG13	VAL	X	441	55.815	33.467	30.467	0.00	0.00
ATOM	6652	CG2	VAL	X	441	55.987	30.898	29.197	0.00	0.00
ATOM	6653	HG21	VAL	X	441	56.158	29.827	29.303	0.00	0.00
ATOM	6654	HG22	VAL	X	441	55.376	31.205	28.349	0.00	0.00
ATOM	6655	HG23	VAL	X	441	56.967	31.363	29.305	0.00	0.00
ATOM	6656	C	VAL	X	441	55.343	31.375	33.006	0.00	0.00
ATOM	6657	O	VAL	X	441	54.140	31.162	32.874	0.00	0.00
ATOM	6658	N	PRO	X	442	55.997	31.792	34.096	0.00	0.00
ATOM	6659	CD	PRO	X	442	57.274	32.461	34.090	0.00	0.00
ATOM	6660	HD2	PRO	X	442	57.277	33.344	33.452	0.00	0.00
ATOM	6661	HD3	PRO	X	442	57.959	31.654	33.829	0.00	0.00
ATOM	6662	CG	PRO	X	442	57.553	32.799	35.550	0.00	0.00
ATOM	6663	HG2	PRO	X	442	57.472	33.875	35.704	0.00	0.00
ATOM	6664	HG3	PRO	X	442	58.551	32.451	35.817	0.00	0.00
ATOM	6665	CB	PRO	X	442	56.579	31.980	36.392	0.00	0.00
ATOM	6666	HB2	PRO	X	442	56.293	32.480	37.318	0.00	0.00
ATOM	6667	HB3	PRO	X	442	56.904	30.955	36.569	0.00	0.00
ATOM	6668	CA	PRO	X	442	55.418	31.799	35.414	0.00	0.00
ATOM	6669	HA	PRO	X	442	55.057	30.806	35.685	0.00	0.00
ATOM	6670	C	PRO	X	442	54.309	32.877	35.543	0.00	0.00
ATOM	6671	O	PRO	X	442	54.346	33.885	34.822	0.00	0.00
ATOM	6672	N	HIP	X	443	53.347	32.757	36.454	0.00	0.00
ATOM	6673	H	HIP	X	443	53.184	31.812	36.772	0.00	0.00
ATOM	6674	CA	HIP	X	443	52.162	33.592	36.733	0.00	0.00
ATOM	6675	HA	HIP	X	443	51.433	33.157	36.048	0.00	0.00
ATOM	6676	CB	HIP	X	443	52.012	33.528	38.263	0.00	0.00
ATOM	6677	HB2	HIP	X	443	52.012	32.490	38.597	0.00	0.00
ATOM	6678	HB3	HIP	X	443	52.967	33.844	38.685	0.00	0.00
ATOM	6679	CG	HIP	X	443	50.850	34.333	38.773	0.00	0.00
ATOM	6680	ND1	HIP	X	443	49.522	34.062	38.728	0.00	0.00
ATOM	6681	HD1	HIP	X	443	49.188	33.196	38.330	0.00	0.00
ATOM	6682	CE1	HIP	X	443	48.839	35.006	39.477	0.00	0.00
ATOM	6683	HE1	HIP	X	443	47.776	35.135	39.614	0.00	0.00
ATOM	6684	NE2	HIP	X	443	49.794	35.748	40.097	0.00	0.00
ATOM	6685	HE2	HIP	X	443	49.741	36.439	40.833	0.00	0.00
ATOM	6686	CD2	HIP	X	443	51.046	35.414	39.592	0.00	0.00
ATOM	6687	HD2	HIP	X	443	51.971	35.882	39.895	0.00	0.00
ATOM	6688	C	HIP	X	443	52.280	35.014	36.249	0.00	0.00
ATOM	6689	O	HIP	X	443	53.050	35.818	36.722	0.00	0.00
ATOM	6690	N	GLY	X	444	51.475	35.421	35.211	0.00	0.00
ATOM	6691	H	GLY	X	444	50.870	34.697	34.851	0.00	0.00
ATOM	6692	CA	GLY	X	444	51.238	36.736	34.630	0.00	0.00
ATOM	6693	HA2	GLY	X	444	50.400	36.712	33.920	0.00	0.00
ATOM	6694	HA3	GLY	X	444	51.045	37.385	35.449	0.00	0.00
ATOM	6695	C	GLY	X	444	52.429	37.335	33.897	0.00	0.00
ATOM	6696	O	GLY	X	444	53.525	37.528	34.455	0.00	0.00
ATOM	6697	N	TYR	X	445	52.215	37.654	32.614	0.00	0.00
ATOM	6698	H	TYR	X	445	51.268	37.573	32.272	0.00	0.00
ATOM	6699	CA	TYR	X	445	53.154	38.414	31.798	0.00	0.00
ATOM	6700	HA	TYR	X	445	53.623	39.132	32.472	0.00	0.00
ATOM	6701	CB	TYR	X	445	54.160	37.394	31.219	0.00	0.00
ATOM	6702	HB2	TYR	X	445	54.227	36.533	31.885	0.00	0.00
ATOM	6703	HB3	TYR	X	445	53.877	37.045	30.227	0.00	0.00
ATOM	6704	CG	TYR	X	445	55.510	38.152	31.124	0.00	0.00
ATOM	6705	CD1	TYR	X	445	56.158	38.678	29.977	0.00	0.00
ATOM	6706	HD1	TYR	X	445	55.654	38.896	29.047	0.00	0.00
ATOM	6707	CE1	TYR	X	445	57.482	39.157	30.006	0.00	0.00
ATOM	6708	HE1	TYR	X	445	57.966	39.619	29.158	0.00	0.00
ATOM	6709	CZ	TYR	X	445	58.257	39.085	31.178	0.00	0.00
ATOM	6710	OH	TYR	X	445	59.496	39.448	31.171	0.00	0.00
ATOM	6711	HH	TYR	X	445	59.813	39.737	30.312	0.00	0.00
ATOM	6712	CE2	TYR	X	445	57.677	38.524	32.334	0.00	0.00
ATOM	6713	HE2	TYR	X	445	58.262	38.266	33.205	0.00	0.00
ATOM	6714	CD2	TYR	X	445	56.371	38.092	32.278	0.00	0.00
ATOM	6715	HD2	TYR	X	445	55.938	37.586	33.129	0.00	0.00
ATOM	6716	C	TYR	X	445	52.623	39.371	30.667	0.00	0.00
ATOM	6717	O	TYR	X	445	53.227	40.320	30.250	0.00	0.00
ATOM	6718	N	GLU	X	446	51.394	39.187	30.338	0.00	0.00

ATOM	6719	H	GLU	X	446	50.890	38.471	30.843	0.00	0.00
ATOM	6720	CA	GLU	X	446	50.735	39.913	29.306	0.00	0.00
ATOM	6721	HA	GLU	X	446	51.403	39.912	28.445	0.00	0.00
ATOM	6722	CB	GLU	X	446	49.508	39.232	28.769	0.00	0.00
ATOM	6723	HB2	GLU	X	446	48.606	39.794	29.010	0.00	0.00
ATOM	6724	HB3	GLU	X	446	49.580	39.272	27.682	0.00	0.00
ATOM	6725	CG	GLU	X	446	49.371	37.816	29.241	0.00	0.00
ATOM	6726	HG2	GLU	X	446	48.737	37.318	28.507	0.00	0.00
ATOM	6727	HG3	GLU	X	446	50.323	37.288	29.299	0.00	0.00
ATOM	6728	CD	GLU	X	446	48.725	37.785	30.687	0.00	0.00
ATOM	6729	OE1	GLU	X	446	47.460	37.885	30.665	0.00	0.00
ATOM	6730	OE2	GLU	X	446	49.431	37.627	31.678	0.00	0.00
ATOM	6731	C	GLU	X	446	50.497	41.443	29.552	0.00	0.00
ATOM	6732	O	GLU	X	446	50.665	42.173	28.616	0.00	0.00
ATOM	6733	N	ILE	X	447	50.266	41.937	30.794	0.00	0.00
ATOM	6734	H	ILE	X	447	50.310	41.374	31.630	0.00	0.00
ATOM	6735	CA	ILE	X	447	50.046	43.383	31.083	0.00	0.00
ATOM	6736	HA	ILE	X	447	49.093	43.728	30.682	0.00	0.00
ATOM	6737	CB	ILE	X	447	49.979	43.712	32.624	0.00	0.00
ATOM	6738	HB	ILE	X	447	49.872	44.795	32.694	0.00	0.00
ATOM	6739	CG2	ILE	X	447	48.773	43.030	33.163	0.00	0.00
ATOM	6740	HG21	ILE	X	447	48.859	41.948	33.262	0.00	0.00
ATOM	6741	HG22	ILE	X	447	48.380	43.317	34.138	0.00	0.00
ATOM	6742	HG23	ILE	X	447	48.000	43.243	32.425	0.00	0.00
ATOM	6743	CG1	ILE	X	447	51.210	43.400	33.460	0.00	0.00
ATOM	6744	HG12	ILE	X	447	51.439	42.347	33.293	0.00	0.00
ATOM	6745	HG13	ILE	X	447	52.010	44.087	33.184	0.00	0.00
ATOM	6746	CD1	ILE	X	447	50.994	43.660	34.936	0.00	0.00
ATOM	6747	HD11	ILE	X	447	50.217	42.990	35.305	0.00	0.00
ATOM	6748	HD12	ILE	X	447	51.982	43.471	35.357	0.00	0.00
ATOM	6749	HD13	ILE	X	447	50.583	44.664	35.036	0.00	0.00
ATOM	6750	C	ILE	X	447	51.023	44.259	30.371	0.00	0.00
ATOM	6751	O	ILE	X	447	50.625	45.248	29.799	0.00	0.00
ATOM	6752	N	GLU	X	448	52.299	43.862	30.137	0.00	0.00
ATOM	6753	H	GLU	X	448	52.661	43.078	30.661	0.00	0.00
ATOM	6754	CA	GLU	X	448	53.311	44.522	29.390	0.00	0.00
ATOM	6755	HA	GLU	X	448	53.383	45.561	29.711	0.00	0.00
ATOM	6756	CB	GLU	X	448	54.726	43.954	29.601	0.00	0.00
ATOM	6757	HB2	GLU	X	448	54.756	42.866	29.533	0.00	0.00
ATOM	6758	HB3	GLU	X	448	55.239	44.398	28.748	0.00	0.00
ATOM	6759	CG	GLU	X	448	55.299	44.436	30.978	0.00	0.00
ATOM	6760	HG2	GLU	X	448	55.420	45.519	30.951	0.00	0.00
ATOM	6761	HG3	GLU	X	448	54.604	44.067	31.732	0.00	0.00
ATOM	6762	CD	GLU	X	448	56.649	43.785	31.091	0.00	0.00
ATOM	6763	OE1	GLU	X	448	57.597	44.048	30.321	0.00	0.00
ATOM	6764	OE2	GLU	X	448	56.747	43.047	32.072	0.00	0.00
ATOM	6765	C	GLU	X	448	53.006	44.713	27.871	0.00	0.00
ATOM	6766	O	GLU	X	448	53.126	45.815	27.375	0.00	0.00
ATOM	6767	N	PHE	X	449	52.615	43.643	27.187	0.00	0.00
ATOM	6768	H	PHE	X	449	52.521	42.791	27.722	0.00	0.00
ATOM	6769	CA	PHE	X	449	52.097	43.712	25.858	0.00	0.00
ATOM	6770	HA	PHE	X	449	52.808	44.112	25.134	0.00	0.00
ATOM	6771	CB	PHE	X	449	51.823	42.314	25.322	0.00	0.00
ATOM	6772	HB2	PHE	X	449	51.154	41.804	26.015	0.00	0.00
ATOM	6773	HB3	PHE	X	449	51.329	42.504	24.369	0.00	0.00
ATOM	6774	CG	PHE	X	449	53.076	41.436	25.169	0.00	0.00
ATOM	6775	CD1	PHE	X	449	53.701	40.857	26.332	0.00	0.00
ATOM	6776	HD1	PHE	X	449	53.213	40.888	27.295	0.00	0.00
ATOM	6777	CE1	PHE	X	449	54.932	40.238	26.178	0.00	0.00
ATOM	6778	HE1	PHE	X	449	55.426	39.867	27.063	0.00	0.00
ATOM	6779	CZ	PHE	X	449	55.428	39.980	24.906	0.00	0.00
ATOM	6780	HZ	PHE	X	449	56.372	39.464	24.813	0.00	0.00
ATOM	6781	CE2	PHE	X	449	54.771	40.404	23.774	0.00	0.00
ATOM	6782	HE2	PHE	X	449	55.243	40.259	22.814	0.00	0.00
ATOM	6783	CD2	PHE	X	449	53.574	41.190	23.892	0.00	0.00
ATOM	6784	HD2	PHE	X	449	53.150	41.671	23.022	0.00	0.00
ATOM	6785	C	PHE	X	449	50.825	44.594	25.709	0.00	0.00
ATOM	6786	O	PHE	X	449	50.616	45.332	24.707	0.00	0.00
ATOM	6787	N	ILE	X	450	50.011	44.560	26.774	0.00	0.00
ATOM	6788	H	ILE	X	450	50.210	43.884	27.497	0.00	0.00

ATOM	6789	CA	ILE	X	450	48.732	45.248	26.777	0.00	0.00
ATOM	6790	HA	ILE	X	450	48.185	45.208	25.835	0.00	0.00
ATOM	6791	CB	ILE	X	450	47.731	44.702	27.811	0.00	0.00
ATOM	6792	HB	ILE	X	450	48.184	44.732	28.802	0.00	0.00
ATOM	6793	CG2	ILE	X	450	46.430	45.426	27.952	0.00	0.00
ATOM	6794	HG21	ILE	X	450	46.638	46.472	28.176	0.00	0.00
ATOM	6795	HG22	ILE	X	450	45.869	45.441	27.017	0.00	0.00
ATOM	6796	HG23	ILE	X	450	45.815	44.973	28.730	0.00	0.00
ATOM	6797	CG1	ILE	X	450	47.468	43.237	27.516	0.00	0.00
ATOM	6798	HG12	ILE	X	450	48.172	42.631	28.086	0.00	0.00
ATOM	6799	HG13	ILE	X	450	46.521	42.909	27.943	0.00	0.00
ATOM	6800	CD1	ILE	X	450	47.351	42.865	26.074	0.00	0.00
ATOM	6801	HD11	ILE	X	450	47.028	41.833	25.942	0.00	0.00
ATOM	6802	HD12	ILE	X	450	46.584	43.480	25.604	0.00	0.00
ATOM	6803	HD13	ILE	X	450	48.340	42.943	25.622	0.00	0.00
ATOM	6804	C	ILE	X	450	48.895	46.812	27.001	0.00	0.00
ATOM	6805	O	ILE	X	450	48.238	47.537	26.265	0.00	0.00
ATOM	6806	N	PHE	X	451	49.708	47.277	27.910	0.00	0.00
ATOM	6807	H	PHE	X	451	50.139	46.541	28.451	0.00	0.00
ATOM	6808	CA	PHE	X	451	50.148	48.695	28.010	0.00	0.00
ATOM	6809	HA	PHE	X	451	49.253	49.317	28.015	0.00	0.00
ATOM	6810	CB	PHE	X	451	50.911	48.854	29.287	0.00	0.00
ATOM	6811	HB2	PHE	X	451	51.517	47.948	29.301	0.00	0.00
ATOM	6812	HB3	PHE	X	451	51.532	49.740	29.158	0.00	0.00
ATOM	6813	CG	PHE	X	451	50.120	48.949	30.622	0.00	0.00
ATOM	6814	CD1	PHE	X	451	50.268	47.951	31.562	0.00	0.00
ATOM	6815	HD1	PHE	X	451	50.875	47.082	31.353	0.00	0.00
ATOM	6816	CE1	PHE	X	451	49.502	47.955	32.716	0.00	0.00
ATOM	6817	HE1	PHE	X	451	49.638	47.153	33.426	0.00	0.00
ATOM	6818	CZ	PHE	X	451	48.677	49.105	33.005	0.00	0.00
ATOM	6819	HZ	PHE	X	451	48.101	49.177	33.916	0.00	0.00
ATOM	6820	CE2	PHE	X	451	48.577	50.174	32.035	0.00	0.00
ATOM	6821	HE2	PHE	X	451	48.073	51.113	32.203	0.00	0.00
ATOM	6822	CD2	PHE	X	451	49.315	50.103	30.828	0.00	0.00
ATOM	6823	HD2	PHE	X	451	49.294	50.846	30.044	0.00	0.00
ATOM	6824	C	PHE	X	451	50.976	49.226	26.802	0.00	0.00
ATOM	6825	O	PHE	X	451	51.227	50.416	26.699	0.00	0.00
ATOM	6826	N	GLY	X	452	51.392	48.319	25.883	0.00	0.00
ATOM	6827	H	GLY	X	452	51.083	47.361	25.974	0.00	0.00
ATOM	6828	CA	GLY	X	452	52.327	48.582	24.809	0.00	0.00
ATOM	6829	HA2	GLY	X	452	52.250	47.697	24.127	0.00	0.00
ATOM	6830	HA3	GLY	X	452	52.096	49.473	24.341	0.00	0.00
ATOM	6831	C	GLY	X	452	53.834	48.704	25.183	0.00	0.00
ATOM	6832	O	GLY	X	452	54.586	49.225	24.428	0.00	0.00
ATOM	6833	N	ILE	X	453	54.303	48.279	26.371	0.00	0.00
ATOM	6834	H	ILE	X	453	53.666	47.754	26.953	0.00	0.00
ATOM	6835	CA	ILE	X	453	55.711	48.482	26.949	0.00	0.00
ATOM	6836	HA	ILE	X	453	55.860	49.561	26.914	0.00	0.00
ATOM	6837	CB	ILE	X	453	55.842	47.857	28.305	0.00	0.00
ATOM	6838	HB	ILE	X	453	55.704	46.776	28.321	0.00	0.00
ATOM	6839	CG2	ILE	X	453	57.259	48.054	28.832	0.00	0.00
ATOM	6840	HG21	ILE	X	453	58.042	47.559	28.258	0.00	0.00
ATOM	6841	HG22	ILE	X	453	57.383	49.137	28.826	0.00	0.00
ATOM	6842	HG23	ILE	X	453	57.330	47.828	29.896	0.00	0.00
ATOM	6843	CG1	ILE	X	453	54.853	48.381	29.335	0.00	0.00
ATOM	6844	HG12	ILE	X	453	53.848	48.023	29.113	0.00	0.00
ATOM	6845	HG13	ILE	X	453	55.125	47.888	30.268	0.00	0.00
ATOM	6846	CD1	ILE	X	453	54.674	49.901	29.439	0.00	0.00
ATOM	6847	HD11	ILE	X	453	55.642	50.323	29.711	0.00	0.00
ATOM	6848	HD12	ILE	X	453	54.266	50.236	28.486	0.00	0.00
ATOM	6849	HD13	ILE	X	453	53.960	50.141	30.226	0.00	0.00
ATOM	6850	C	ILE	X	453	56.803	47.998	25.971	0.00	0.00
ATOM	6851	O	ILE	X	453	57.801	48.723	25.886	0.00	0.00
ATOM	6852	N	PRO	X	454	56.694	46.895	25.180	0.00	0.00
ATOM	6853	CD	PRO	X	454	55.757	45.817	25.324	0.00	0.00
ATOM	6854	HD2	PRO	X	454	54.762	46.042	24.938	0.00	0.00
ATOM	6855	HD3	PRO	X	454	55.586	45.550	26.367	0.00	0.00
ATOM	6856	CG	PRO	X	454	56.300	44.621	24.541	0.00	0.00
ATOM	6857	HG2	PRO	X	454	55.552	43.980	24.074	0.00	0.00
ATOM	6858	HG3	PRO	X	454	56.892	43.939	25.151	0.00	0.00

ATOM	6859	CB	PRO	X	454	57.150	45.368	23.476	0.00	0.00
ATOM	6860	HB2	PRO	X	454	56.459	45.577	22.659	0.00	0.00
ATOM	6861	HB3	PRO	X	454	57.905	44.759	22.979	0.00	0.00
ATOM	6862	CA	PRO	X	454	57.656	46.614	24.131	0.00	0.00
ATOM	6863	HA	PRO	X	454	58.525	46.383	24.748	0.00	0.00
ATOM	6864	C	PRO	X	454	57.932	47.752	23.019	0.00	0.00
ATOM	6865	O	PRO	X	454	58.977	47.652	22.433	0.00	0.00
ATOM	6866	N	LEU	X	455	57.058	48.716	22.767	0.00	0.00
ATOM	6867	H	LEU	X	455	56.297	48.813	23.423	0.00	0.00
ATOM	6868	CA	LEU	X	455	57.279	49.763	21.907	0.00	0.00
ATOM	6869	HA	LEU	X	455	57.744	49.363	21.005	0.00	0.00
ATOM	6870	CB	LEU	X	455	55.818	50.375	21.551	0.00	0.00
ATOM	6871	HB2	LEU	X	455	55.323	50.681	22.473	0.00	0.00
ATOM	6872	HB3	LEU	X	455	56.022	51.323	21.056	0.00	0.00
ATOM	6873	CG	LEU	X	455	55.073	49.550	20.541	0.00	0.00
ATOM	6874	HG	LEU	X	455	55.634	49.481	19.609	0.00	0.00
ATOM	6875	CD1	LEU	X	455	54.589	48.268	21.152	0.00	0.00
ATOM	6876	HD11	LEU	X	455	53.870	47.799	20.481	0.00	0.00
ATOM	6877	HD12	LEU	X	455	55.422	47.570	21.249	0.00	0.00
ATOM	6878	HD13	LEU	X	455	54.037	48.447	22.074	0.00	0.00
ATOM	6879	CD2	LEU	X	455	53.803	50.338	20.180	0.00	0.00
ATOM	6880	HD21	LEU	X	455	53.245	50.406	21.115	0.00	0.00
ATOM	6881	HD22	LEU	X	455	54.004	51.363	19.869	0.00	0.00
ATOM	6882	HD23	LEU	X	455	53.324	49.742	19.403	0.00	0.00
ATOM	6883	C	LEU	X	455	58.265	50.859	22.434	0.00	0.00
ATOM	6884	O	LEU	X	455	58.609	51.770	21.727	0.00	0.00
ATOM	6885	N	ASP	X	456	58.672	50.772	23.717	0.00	0.00
ATOM	6886	H	ASP	X	456	58.344	49.966	24.230	0.00	0.00
ATOM	6887	CA	ASP	X	456	59.535	51.790	24.318	0.00	0.00
ATOM	6888	HA	ASP	X	456	59.077	52.777	24.250	0.00	0.00
ATOM	6889	CB	ASP	X	456	59.643	51.510	25.806	0.00	0.00
ATOM	6890	HB2	ASP	X	456	58.622	51.443	26.182	0.00	0.00
ATOM	6891	HB3	ASP	X	456	60.038	50.501	25.923	0.00	0.00
ATOM	6892	CG	ASP	X	456	60.589	52.404	26.617	0.00	0.00
ATOM	6893	OD1	ASP	X	456	61.781	52.311	26.468	0.00	0.00
ATOM	6894	OD2	ASP	X	456	60.135	53.208	27.434	0.00	0.00
ATOM	6895	C	ASP	X	456	60.944	51.902	23.670	0.00	0.00
ATOM	6896	O	ASP	X	456	61.473	50.902	23.081	0.00	0.00
ATOM	6897	N	PRO	X	457	61.610	53.106	23.687	0.00	0.00
ATOM	6898	CD	PRO	X	457	60.968	54.423	24.078	0.00	0.00
ATOM	6899	HD2	PRO	X	457	60.465	54.445	25.045	0.00	0.00
ATOM	6900	HD3	PRO	X	457	60.324	54.668	23.233	0.00	0.00
ATOM	6901	CG	PRO	X	457	62.140	55.330	24.001	0.00	0.00
ATOM	6902	HG2	PRO	X	457	62.671	55.155	24.937	0.00	0.00
ATOM	6903	HG3	PRO	X	457	62.042	56.415	23.950	0.00	0.00
ATOM	6904	CB	PRO	X	457	62.946	54.845	22.801	0.00	0.00
ATOM	6905	HB2	PRO	X	457	63.967	55.217	22.715	0.00	0.00
ATOM	6906	HB3	PRO	X	457	62.389	55.089	21.897	0.00	0.00
ATOM	6907	CA	PRO	X	457	62.829	53.338	22.949	0.00	0.00
ATOM	6908	HA	PRO	X	457	62.821	52.839	21.980	0.00	0.00
ATOM	6909	C	PRO	X	457	64.164	52.900	23.603	0.00	0.00
ATOM	6910	O	PRO	X	457	65.142	52.878	22.902	0.00	0.00
ATOM	6911	N	SER	X	458	64.170	52.592	24.966	0.00	0.00
ATOM	6912	H	SER	X	458	63.341	52.696	25.535	0.00	0.00
ATOM	6913	CA	SER	X	458	65.313	52.048	25.652	0.00	0.00
ATOM	6914	HA	SER	X	458	66.105	51.980	24.907	0.00	0.00
ATOM	6915	CB	SER	X	458	65.873	52.817	26.917	0.00	0.00
ATOM	6916	HB2	SER	X	458	65.236	52.645	27.784	0.00	0.00
ATOM	6917	HB3	SER	X	458	66.821	52.379	27.230	0.00	0.00
ATOM	6918	OG	SER	X	458	66.207	54.157	26.809	0.00	0.00
ATOM	6919	HG	SER	X	458	66.416	54.370	25.896	0.00	0.00
ATOM	6920	C	SER	X	458	65.182	50.611	25.965	0.00	0.00
ATOM	6921	O	SER	X	458	66.227	49.882	25.959	0.00	0.00
ATOM	6922	N	ARG	X	459	63.976	50.143	26.292	0.00	0.00
ATOM	6923	H	ARG	X	459	63.161	50.693	26.063	0.00	0.00
ATOM	6924	CA	ARG	X	459	63.734	48.850	26.891	0.00	0.00
ATOM	6925	HA	ARG	X	459	64.524	48.726	27.632	0.00	0.00
ATOM	6926	CB	ARG	X	459	62.421	48.920	27.803	0.00	0.00
ATOM	6927	HB2	ARG	X	459	61.515	49.133	27.236	0.00	0.00
ATOM	6928	HB3	ARG	X	459	62.372	47.903	28.192	0.00	0.00

ATOM	6929	CG	ARG	X	459	62.417	50.066	28.925	0.00	0.00
ATOM	6930	HG2	ARG	X	459	63.246	49.835	29.594	0.00	0.00
ATOM	6931	HG3	ARG	X	459	62.494	51.057	28.477	0.00	0.00
ATOM	6932	CD	ARG	X	459	61.178	50.015	29.832	0.00	0.00
ATOM	6933	HD2	ARG	X	459	60.671	49.074	29.618	0.00	0.00
ATOM	6934	HD3	ARG	X	459	61.595	50.106	30.835	0.00	0.00
ATOM	6935	NE	ARG	X	459	60.198	51.119	29.659	0.00	0.00
ATOM	6936	HE	ARG	X	459	60.574	51.902	29.144	0.00	0.00
ATOM	6937	CZ	ARG	X	459	59.028	51.223	30.146	0.00	0.00
ATOM	6938	NH1	ARG	X	459	58.534	50.540	31.171	0.00	0.00
ATOM	6939	HH11	ARG	X	459	59.087	49.800	31.580	0.00	0.00
ATOM	6940	HH12	ARG	X	459	57.641	50.787	31.573	0.00	0.00
ATOM	6941	NH2	ARG	X	459	58.284	52.134	29.490	0.00	0.00
ATOM	6942	HH21	ARG	X	459	58.604	52.730	28.740	0.00	0.00
ATOM	6943	HH22	ARG	X	459	57.329	52.335	29.748	0.00	0.00
ATOM	6944	C	ARG	X	459	63.902	47.726	25.850	0.00	0.00
ATOM	6945	O	ARG	X	459	63.162	47.672	24.847	0.00	0.00
ATOM	6946	N	ASN	X	460	64.891	46.802	26.133	0.00	0.00
ATOM	6947	H	ASN	X	460	65.452	47.078	26.926	0.00	0.00
ATOM	6948	CA	ASN	X	460	65.212	45.753	25.192	0.00	0.00
ATOM	6949	HA	ASN	X	460	65.418	46.277	24.258	0.00	0.00
ATOM	6950	CB	ASN	X	460	66.484	45.081	25.664	0.00	0.00
ATOM	6951	HB2	ASN	X	460	67.171	45.849	26.020	0.00	0.00
ATOM	6952	HB3	ASN	X	460	66.267	44.419	26.502	0.00	0.00
ATOM	6953	CG	ASN	X	460	67.333	44.378	24.583	0.00	0.00
ATOM	6954	OD1	ASN	X	460	66.926	44.242	23.440	0.00	0.00
ATOM	6955	ND2	ASN	X	460	68.591	43.959	24.915	0.00	0.00
ATOM	6956	HD21	ASN	X	460	69.202	43.686	24.158	0.00	0.00
ATOM	6957	HD22	ASN	X	460	68.852	44.168	25.868	0.00	0.00
ATOM	6958	C	ASN	X	460	64.026	44.770	24.973	0.00	0.00
ATOM	6959	O	ASN	X	460	63.657	43.994	25.894	0.00	0.00
ATOM	6960	N	TYR	X	461	63.550	44.527	23.783	0.00	0.00
ATOM	6961	H	TYR	X	461	63.920	45.099	23.037	0.00	0.00
ATOM	6962	CA	TYR	X	461	62.720	43.367	23.382	0.00	0.00
ATOM	6963	HA	TYR	X	461	63.032	42.557	24.041	0.00	0.00
ATOM	6964	CB	TYR	X	461	61.214	43.582	23.629	0.00	0.00
ATOM	6965	HB2	TYR	X	461	60.907	44.288	22.857	0.00	0.00
ATOM	6966	HB3	TYR	X	461	60.733	42.618	23.461	0.00	0.00
ATOM	6967	CG	TYR	X	461	60.719	44.017	25.003	0.00	0.00
ATOM	6968	CD1	TYR	X	461	60.909	45.279	25.454	0.00	0.00
ATOM	6969	HD1	TYR	X	461	61.513	45.995	24.917	0.00	0.00
ATOM	6970	CE1	TYR	X	461	60.483	45.812	26.688	0.00	0.00
ATOM	6971	HE1	TYR	X	461	60.548	46.881	26.830	0.00	0.00
ATOM	6972	CZ	TYR	X	461	59.772	44.997	27.601	0.00	0.00
ATOM	6973	OH	TYR	X	461	59.147	45.448	28.711	0.00	0.00
ATOM	6974	HH	TYR	X	461	58.606	44.721	29.028	0.00	0.00
ATOM	6975	CE2	TYR	X	461	59.536	43.650	27.193	0.00	0.00
ATOM	6976	HE2	TYR	X	461	58.839	43.073	27.783	0.00	0.00
ATOM	6977	CD2	TYR	X	461	60.050	43.130	25.964	0.00	0.00
ATOM	6978	HD2	TYR	X	461	59.961	42.081	25.724	0.00	0.00
ATOM	6979	C	TYR	X	461	63.039	43.015	21.915	0.00	0.00
ATOM	6980	O	TYR	X	461	63.677	43.831	21.264	0.00	0.00
ATOM	6981	N	THR	X	462	62.574	41.840	21.417	0.00	0.00
ATOM	6982	H	THR	X	462	62.010	41.265	22.026	0.00	0.00
ATOM	6983	CA	THR	X	462	62.493	41.561	19.999	0.00	0.00
ATOM	6984	HA	THR	X	462	63.491	41.774	19.617	0.00	0.00
ATOM	6985	CB	THR	X	462	62.277	40.070	19.791	0.00	0.00
ATOM	6986	HB	THR	X	462	62.238	39.973	18.706	0.00	0.00
ATOM	6987	CG2	THR	X	462	63.482	39.276	20.268	0.00	0.00
ATOM	6988	HG21	THR	X	462	64.378	39.553	19.712	0.00	0.00
ATOM	6989	HG22	THR	X	462	63.669	39.505	21.317	0.00	0.00
ATOM	6990	HG23	THR	X	462	63.346	38.198	20.188	0.00	0.00
ATOM	6991	OG1	THR	X	462	61.151	39.491	20.350	0.00	0.00
ATOM	6992	HG1	THR	X	462	61.173	39.594	21.304	0.00	0.00
ATOM	6993	C	THR	X	462	61.713	42.440	19.066	0.00	0.00
ATOM	6994	O	THR	X	462	60.735	42.993	19.557	0.00	0.00
ATOM	6995	N	ALA	X	463	62.059	42.560	17.831	0.00	0.00
ATOM	6996	H	ALA	X	463	62.973	42.274	17.510	0.00	0.00
ATOM	6997	CA	ALA	X	463	61.112	43.047	16.811	0.00	0.00
ATOM	6998	HA	ALA	X	463	60.857	44.078	17.056	0.00	0.00

ATOM	6999	CB	ALA	X	463	61.752	42.952	15.421	0.00	0.00
ATOM	7000	HB1	ALA	X	463	61.085	43.339	14.650	0.00	0.00
ATOM	7001	HB2	ALA	X	463	62.654	43.563	15.459	0.00	0.00
ATOM	7002	HB3	ALA	X	463	62.129	41.969	15.139	0.00	0.00
ATOM	7003	C	ALA	X	463	59.818	42.209	16.815	0.00	0.00
ATOM	7004	O	ALA	X	463	58.717	42.726	16.712	0.00	0.00
ATOM	7005	N	GLU	X	464	59.940	40.901	17.012	0.00	0.00
ATOM	7006	H	GLU	X	464	60.831	40.430	16.947	0.00	0.00
ATOM	7007	CA	GLU	X	464	58.853	39.947	17.068	0.00	0.00
ATOM	7008	HA	GLU	X	464	58.247	40.195	16.198	0.00	0.00
ATOM	7009	CB	GLU	X	464	59.300	38.539	17.055	0.00	0.00
ATOM	7010	HB2	GLU	X	464	60.053	38.320	17.813	0.00	0.00
ATOM	7011	HB3	GLU	X	464	58.411	37.940	17.255	0.00	0.00
ATOM	7012	CG	GLU	X	464	59.709	37.922	15.691	0.00	0.00
ATOM	7013	HG2	GLU	X	464	60.456	38.611	15.298	0.00	0.00
ATOM	7014	HG3	GLU	X	464	60.099	36.925	15.896	0.00	0.00
ATOM	7015	CD	GLU	X	464	58.553	37.824	14.627	0.00	0.00
ATOM	7016	OE1	GLU	X	464	57.773	38.799	14.479	0.00	0.00
ATOM	7017	OE2	GLU	X	464	58.513	36.888	13.817	0.00	0.00
ATOM	7018	C	GLU	X	464	58.067	40.183	18.285	0.00	0.00
ATOM	7019	O	GLU	X	464	56.854	40.240	18.131	0.00	0.00
ATOM	7020	N	GLU	X	465	58.476	40.482	19.502	0.00	0.00
ATOM	7021	H	GLU	X	465	59.455	40.305	19.674	0.00	0.00
ATOM	7022	CA	GLU	X	465	57.711	40.976	20.619	0.00	0.00
ATOM	7023	HA	GLU	X	465	56.935	40.238	20.819	0.00	0.00
ATOM	7024	CB	GLU	X	465	58.589	41.048	21.875	0.00	0.00
ATOM	7025	HB2	GLU	X	465	59.597	41.375	21.622	0.00	0.00
ATOM	7026	HB3	GLU	X	465	58.151	41.819	22.509	0.00	0.00
ATOM	7027	CG	GLU	X	465	58.664	39.764	22.655	0.00	0.00
ATOM	7028	HG2	GLU	X	465	57.927	39.886	23.448	0.00	0.00
ATOM	7029	HG3	GLU	X	465	58.451	38.964	21.946	0.00	0.00
ATOM	7030	CD	GLU	X	465	60.027	39.395	23.196	0.00	0.00
ATOM	7031	OE1	GLU	X	465	61.013	40.138	23.096	0.00	0.00
ATOM	7032	OE2	GLU	X	465	60.131	38.296	23.706	0.00	0.00
ATOM	7033	C	GLU	X	465	57.065	42.323	20.357	0.00	0.00
ATOM	7034	O	GLU	X	465	55.911	42.543	20.804	0.00	0.00
ATOM	7035	N	LYS	X	466	57.740	43.303	19.759	0.00	0.00
ATOM	7036	H	LYS	X	466	58.473	43.031	19.119	0.00	0.00
ATOM	7037	CA	LYS	X	466	57.072	44.588	19.563	0.00	0.00
ATOM	7038	HA	LYS	X	466	56.550	44.744	20.507	0.00	0.00
ATOM	7039	CB	LYS	X	466	58.143	45.752	19.536	0.00	0.00
ATOM	7040	HB2	LYS	X	466	57.626	46.696	19.706	0.00	0.00
ATOM	7041	HB3	LYS	X	466	58.898	45.662	20.317	0.00	0.00
ATOM	7042	CG	LYS	X	466	58.911	45.895	18.267	0.00	0.00
ATOM	7043	HG2	LYS	X	466	59.714	45.158	18.258	0.00	0.00
ATOM	7044	HG3	LYS	X	466	58.239	45.733	17.424	0.00	0.00
ATOM	7045	CD	LYS	X	466	59.582	47.205	18.122	0.00	0.00
ATOM	7046	HD2	LYS	X	466	60.181	47.032	17.229	0.00	0.00
ATOM	7047	HD3	LYS	X	466	58.928	48.048	17.897	0.00	0.00
ATOM	7048	CE	LYS	X	466	60.602	47.548	19.196	0.00	0.00
ATOM	7049	HE2	LYS	X	466	60.099	48.135	19.964	0.00	0.00
ATOM	7050	HE3	LYS	X	466	60.955	46.714	19.803	0.00	0.00
ATOM	7051	NZ	LYS	X	466	61.731	48.334	18.635	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	61.407	49.211	18.253	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	62.405	48.654	19.316	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	62.182	47.745	17.950	0.00	0.00
ATOM	7055	C	LYS	X	466	56.021	44.611	18.430	0.00	0.00
ATOM	7056	O	LYS	X	466	54.946	45.171	18.617	0.00	0.00
ATOM	7057	N	ILE	X	467	56.189	43.841	17.360	0.00	0.00
ATOM	7058	H	ILE	X	467	57.126	43.518	17.168	0.00	0.00
ATOM	7059	CA	ILE	X	467	55.042	43.456	16.507	0.00	0.00
ATOM	7060	HA	ILE	X	467	54.614	44.369	16.092	0.00	0.00
ATOM	7061	CB	ILE	X	467	55.642	42.676	15.311	0.00	0.00
ATOM	7062	HB	ILE	X	467	56.393	41.944	15.608	0.00	0.00
ATOM	7063	CG2	ILE	X	467	54.526	42.039	14.497	0.00	0.00
ATOM	7064	HG21	ILE	X	467	54.985	41.551	13.636	0.00	0.00
ATOM	7065	HG22	ILE	X	467	53.935	41.262	14.982	0.00	0.00
ATOM	7066	HG23	ILE	X	467	53.917	42.806	14.019	0.00	0.00
ATOM	7067	CG1	ILE	X	467	56.380	43.729	14.428	0.00	0.00
ATOM	7068	HG12	ILE	X	467	55.782	44.602	14.168	0.00	0.00

ATOM	7069	HG13	ILE	X	467	57.149	44.154	15.073	0.00	0.00
ATOM	7070	CD1	ILE	X	467	57.124	43.160	13.225	0.00	0.00
ATOM	7071	HD11	ILE	X	467	57.768	43.999	12.959	0.00	0.00
ATOM	7072	HD12	ILE	X	467	57.627	42.232	13.497	0.00	0.00
ATOM	7073	HD13	ILE	X	467	56.314	42.955	12.526	0.00	0.00
ATOM	7074	C	ILE	X	467	53.906	42.661	17.189	0.00	0.00
ATOM	7075	O	ILE	X	467	52.692	42.834	16.962	0.00	0.00
ATOM	7076	N	PHE	X	468	54.281	41.768	18.121	0.00	0.00
ATOM	7077	H	PHE	X	468	55.244	41.712	18.421	0.00	0.00
ATOM	7078	CA	PHE	X	468	53.293	40.974	18.849	0.00	0.00
ATOM	7079	HA	PHE	X	468	52.628	40.596	18.072	0.00	0.00
ATOM	7080	CB	PHE	X	468	53.985	39.800	19.494	0.00	0.00
ATOM	7081	HB2	PHE	X	468	54.476	39.167	18.755	0.00	0.00
ATOM	7082	HB3	PHE	X	468	54.726	40.258	20.149	0.00	0.00
ATOM	7083	CG	PHE	X	468	53.081	38.889	20.353	0.00	0.00
ATOM	7084	CD1	PHE	X	468	51.818	38.443	19.956	0.00	0.00
ATOM	7085	HD1	PHE	X	468	51.426	38.795	19.014	0.00	0.00
ATOM	7086	CE1	PHE	X	468	50.997	37.702	20.804	0.00	0.00
ATOM	7087	HE1	PHE	X	468	49.978	37.578	20.470	0.00	0.00
ATOM	7088	CZ	PHE	X	468	51.543	37.041	21.927	0.00	0.00
ATOM	7089	HZ	PHE	X	468	50.872	36.429	22.511	0.00	0.00
ATOM	7090	CE2	PHE	X	468	52.931	37.280	22.286	0.00	0.00
ATOM	7091	HE2	PHE	X	468	53.452	36.823	23.114	0.00	0.00
ATOM	7092	CD2	PHE	X	468	53.616	38.286	21.522	0.00	0.00
ATOM	7093	HD2	PHE	X	468	54.648	38.500	21.757	0.00	0.00
ATOM	7094	C	PHE	X	468	52.436	41.791	19.818	0.00	0.00
ATOM	7095	O	PHE	X	468	51.239	41.624	19.765	0.00	0.00
ATOM	7096	N	ALA	X	469	53.050	42.691	20.582	0.00	0.00
ATOM	7097	H	ALA	X	469	54.020	42.904	20.398	0.00	0.00
ATOM	7098	CA	ALA	X	469	52.294	43.569	21.433	0.00	0.00
ATOM	7099	HA	ALA	X	469	51.924	43.055	22.320	0.00	0.00
ATOM	7100	CB	ALA	X	469	53.271	44.568	22.002	0.00	0.00
ATOM	7101	HB1	ALA	X	469	53.967	44.957	21.259	0.00	0.00
ATOM	7102	HB2	ALA	X	469	52.819	45.387	22.561	0.00	0.00
ATOM	7103	HB3	ALA	X	469	53.752	44.073	22.846	0.00	0.00
ATOM	7104	C	ALA	X	469	51.112	44.312	20.714	0.00	0.00
ATOM	7105	O	ALA	X	469	49.997	44.375	21.226	0.00	0.00
ATOM	7106	N	GLN	X	470	51.407	44.769	19.501	0.00	0.00
ATOM	7107	H	GLN	X	470	52.298	44.596	19.059	0.00	0.00
ATOM	7108	CA	GLN	X	470	50.410	45.551	18.758	0.00	0.00
ATOM	7109	HA	GLN	X	470	50.005	46.200	19.534	0.00	0.00
ATOM	7110	CB	GLN	X	470	51.115	46.313	17.597	0.00	0.00
ATOM	7111	HB2	GLN	X	470	51.804	45.697	17.021	0.00	0.00
ATOM	7112	HB3	GLN	X	470	50.337	46.813	17.020	0.00	0.00
ATOM	7113	CG	GLN	X	470	51.975	47.406	18.120	0.00	0.00
ATOM	7114	HG2	GLN	X	470	51.387	48.239	18.506	0.00	0.00
ATOM	7115	HG3	GLN	X	470	52.569	47.084	18.975	0.00	0.00
ATOM	7116	CD	GLN	X	470	52.973	47.841	17.023	0.00	0.00
ATOM	7117	OE1	GLN	X	470	52.558	48.627	16.169	0.00	0.00
ATOM	7118	NE2	GLN	X	470	54.294	47.585	17.110	0.00	0.00
ATOM	7119	HE21	GLN	X	470	54.900	47.818	16.336	0.00	0.00
ATOM	7120	HE22	GLN	X	470	54.625	46.886	17.760	0.00	0.00
ATOM	7121	C	GLN	X	470	49.147	44.725	18.374	0.00	0.00
ATOM	7122	O	GLN	X	470	48.009	45.270	18.508	0.00	0.00
ATOM	7123	N	ARG	X	471	49.241	43.415	18.134	0.00	0.00
ATOM	7124	H	ARG	X	471	50.177	43.046	18.211	0.00	0.00
ATOM	7125	CA	ARG	X	471	48.053	42.581	17.983	0.00	0.00
ATOM	7126	HA	ARG	X	471	47.384	43.006	17.235	0.00	0.00
ATOM	7127	CB	ARG	X	471	48.474	41.196	17.559	0.00	0.00
ATOM	7128	HB2	ARG	X	471	49.134	40.752	18.304	0.00	0.00
ATOM	7129	HB3	ARG	X	471	47.597	40.575	17.379	0.00	0.00
ATOM	7130	CG	ARG	X	471	49.216	41.093	16.224	0.00	0.00
ATOM	7131	HG2	ARG	X	471	48.462	41.414	15.505	0.00	0.00
ATOM	7132	HG3	ARG	X	471	50.107	41.714	16.126	0.00	0.00
ATOM	7133	CD	ARG	X	471	49.751	39.623	16.059	0.00	0.00
ATOM	7134	HD2	ARG	X	471	50.308	39.454	15.138	0.00	0.00
ATOM	7135	HD3	ARG	X	471	50.472	39.539	16.872	0.00	0.00
ATOM	7136	NE	ARG	X	471	48.700	38.641	16.232	0.00	0.00
ATOM	7137	HE	ARG	X	471	47.775	38.903	15.921	0.00	0.00
ATOM	7138	CZ	ARG	X	471	48.784	37.533	16.860	0.00	0.00

ATOM	7139	NH1	ARG	X	471	49.896	37.025	17.366	0.00	0.00
ATOM	7140	HH11	ARG	X	471	50.723	37.557	17.135	0.00	0.00
ATOM	7141	HH12	ARG	X	471	49.983	36.096	17.752	0.00	0.00
ATOM	7142	NH2	ARG	X	471	47.757	36.784	17.094	0.00	0.00
ATOM	7143	HH21	ARG	X	471	46.817	37.068	16.855	0.00	0.00
ATOM	7144	HH22	ARG	X	471	47.937	35.893	17.535	0.00	0.00
ATOM	7145	C	ARG	X	471	47.184	42.547	19.284	0.00	0.00
ATOM	7146	O	ARG	X	471	45.986	42.669	19.273	0.00	0.00
ATOM	7147	N	LEU	X	472	47.895	42.359	20.448	0.00	0.00
ATOM	7148	H	LEU	X	472	48.876	42.149	20.335	0.00	0.00
ATOM	7149	CA	LEU	X	472	47.302	42.253	21.813	0.00	0.00
ATOM	7150	HA	LEU	X	472	46.549	41.468	21.737	0.00	0.00
ATOM	7151	CB	LEU	X	472	48.427	41.668	22.751	0.00	0.00
ATOM	7152	HB2	LEU	X	472	49.278	42.347	22.699	0.00	0.00
ATOM	7153	HB3	LEU	X	472	48.024	41.651	23.764	0.00	0.00
ATOM	7154	CG	LEU	X	472	48.968	40.244	22.340	0.00	0.00
ATOM	7155	HG	LEU	X	472	49.229	40.146	21.287	0.00	0.00
ATOM	7156	CD1	LEU	X	472	50.239	39.909	23.225	0.00	0.00
ATOM	7157	HD11	LEU	X	472	51.083	40.419	22.761	0.00	0.00
ATOM	7158	HD12	LEU	X	472	50.050	40.153	24.271	0.00	0.00
ATOM	7159	HD13	LEU	X	472	50.552	38.867	23.295	0.00	0.00
ATOM	7160	CD2	LEU	X	472	47.813	39.250	22.388	0.00	0.00
ATOM	7161	HD21	LEU	X	472	47.411	39.320	23.399	0.00	0.00
ATOM	7162	HD22	LEU	X	472	47.035	39.444	21.650	0.00	0.00
ATOM	7163	HD23	LEU	X	472	48.108	38.224	22.168	0.00	0.00
ATOM	7164	C	LEU	X	472	46.678	43.556	22.282	0.00	0.00
ATOM	7165	O	LEU	X	472	45.540	43.569	22.561	0.00	0.00
ATOM	7166	N	MET	X	473	47.400	44.691	22.244	0.00	0.00
ATOM	7167	H	MET	X	473	48.372	44.658	21.970	0.00	0.00
ATOM	7168	CA	MET	X	473	46.887	46.056	22.462	0.00	0.00
ATOM	7169	HA	MET	X	473	46.734	46.194	23.532	0.00	0.00
ATOM	7170	CB	MET	X	473	47.822	47.159	21.968	0.00	0.00
ATOM	7171	HB2	MET	X	473	47.917	47.043	20.889	0.00	0.00
ATOM	7172	HB3	MET	X	473	47.363	48.136	22.123	0.00	0.00
ATOM	7173	CG	MET	X	473	49.120	47.124	22.622	0.00	0.00
ATOM	7174	HG2	MET	X	473	49.089	47.428	23.668	0.00	0.00
ATOM	7175	HG3	MET	X	473	49.455	46.091	22.711	0.00	0.00
ATOM	7176	SD	MET	X	473	50.528	48.030	21.774	0.00	0.00
ATOM	7177	CE	MET	X	473	50.122	49.766	22.108	0.00	0.00
ATOM	7178	HE1	MET	X	473	50.551	49.995	23.083	0.00	0.00
ATOM	7179	HE2	MET	X	473	50.662	50.191	21.262	0.00	0.00
ATOM	7180	HE3	MET	X	473	49.072	50.040	22.010	0.00	0.00
ATOM	7181	C	MET	X	473	45.608	46.216	21.631	0.00	0.00
ATOM	7182	O	MET	X	473	44.573	46.709	22.114	0.00	0.00
ATOM	7183	N	ARG	X	474	45.564	45.737	20.422	0.00	0.00
ATOM	7184	H	ARG	X	474	46.363	45.212	20.095	0.00	0.00
ATOM	7185	CA	ARG	X	474	44.451	45.945	19.573	0.00	0.00
ATOM	7186	HA	ARG	X	474	44.181	46.991	19.724	0.00	0.00
ATOM	7187	CB	ARG	X	474	44.724	45.768	18.007	0.00	0.00
ATOM	7188	HB2	ARG	X	474	45.593	46.387	17.785	0.00	0.00
ATOM	7189	HB3	ARG	X	474	45.028	44.726	17.904	0.00	0.00
ATOM	7190	CG	ARG	X	474	43.589	46.055	17.010	0.00	0.00
ATOM	7191	HG2	ARG	X	474	43.927	45.840	15.997	0.00	0.00
ATOM	7192	HG3	ARG	X	474	42.749	45.429	17.312	0.00	0.00
ATOM	7193	CD	ARG	X	474	43.038	47.487	17.021	0.00	0.00
ATOM	7194	HD2	ARG	X	474	42.698	47.795	18.010	0.00	0.00
ATOM	7195	HD3	ARG	X	474	43.880	48.149	16.818	0.00	0.00
ATOM	7196	NE	ARG	X	474	41.953	47.675	16.047	0.00	0.00
ATOM	7197	HE	ARG	X	474	41.601	46.856	15.571	0.00	0.00
ATOM	7198	CZ	ARG	X	474	41.354	48.761	15.738	0.00	0.00
ATOM	7199	NH1	ARG	X	474	41.703	49.997	16.098	0.00	0.00
ATOM	7200	HH11	ARG	X	474	42.589	50.145	16.559	0.00	0.00
ATOM	7201	HH12	ARG	X	474	41.086	50.792	16.010	0.00	0.00
ATOM	7202	NH2	ARG	X	474	40.347	48.635	14.961	0.00	0.00
ATOM	7203	HH21	ARG	X	474	40.194	47.746	14.507	0.00	0.00
ATOM	7204	HH22	ARG	X	474	39.717	49.425	14.983	0.00	0.00
ATOM	7205	C	ARG	X	474	43.295	45.105	19.978	0.00	0.00
ATOM	7206	O	ARG	X	474	42.132	45.514	20.037	0.00	0.00
ATOM	7207	N	TYR	X	475	43.496	43.884	20.240	0.00	0.00
ATOM	7208	H	TYR	X	475	44.458	43.575	20.243	0.00	0.00

ATOM	7209	CA	TYR	X	475	42.467	42.988	20.790	0.00	0.00
ATOM	7210	HA	TYR	X	475	41.625	42.990	20.098	0.00	0.00
ATOM	7211	CB	TYR	X	475	43.072	41.553	20.914	0.00	0.00
ATOM	7212	HB2	TYR	X	475	43.918	41.607	21.601	0.00	0.00
ATOM	7213	HB3	TYR	X	475	42.343	40.856	21.328	0.00	0.00
ATOM	7214	CG	TYR	X	475	43.679	40.795	19.717	0.00	0.00
ATOM	7215	CD1	TYR	X	475	43.229	40.918	18.389	0.00	0.00
ATOM	7216	HD1	TYR	X	475	42.532	41.649	18.007	0.00	0.00
ATOM	7217	CE1	TYR	X	475	43.708	40.050	17.427	0.00	0.00
ATOM	7218	HE1	TYR	X	475	43.647	40.158	16.354	0.00	0.00
ATOM	7219	CZ	TYR	X	475	44.684	39.115	17.795	0.00	0.00
ATOM	7220	OH	TYR	X	475	45.289	38.395	16.858	0.00	0.00
ATOM	7221	HH	TYR	X	475	44.852	38.412	16.003	0.00	0.00
ATOM	7222	CE2	TYR	X	475	45.132	38.936	19.115	0.00	0.00
ATOM	7223	HE2	TYR	X	475	45.748	38.084	19.361	0.00	0.00
ATOM	7224	CD2	TYR	X	475	44.647	39.827	20.085	0.00	0.00
ATOM	7225	HD2	TYR	X	475	44.908	39.661	21.120	0.00	0.00
ATOM	7226	C	TYR	X	475	41.896	43.387	22.197	0.00	0.00
ATOM	7227	O	TYR	X	475	40.718	43.257	22.368	0.00	0.00
ATOM	7228	N	TRP	X	476	42.690	43.923	23.159	0.00	0.00
ATOM	7229	H	TRP	X	476	43.641	44.195	22.957	0.00	0.00
ATOM	7230	CA	TRP	X	476	42.121	44.460	24.408	0.00	0.00
ATOM	7231	HA	TRP	X	476	41.433	43.754	24.873	0.00	0.00
ATOM	7232	CB	TRP	X	476	43.236	44.644	25.454	0.00	0.00
ATOM	7233	HB2	TRP	X	476	44.190	44.815	24.954	0.00	0.00
ATOM	7234	HB3	TRP	X	476	42.983	45.539	26.021	0.00	0.00
ATOM	7235	CG	TRP	X	476	43.432	43.515	26.475	0.00	0.00
ATOM	7236	CD1	TRP	X	476	43.297	43.594	27.816	0.00	0.00
ATOM	7237	HD1	TRP	X	476	42.961	44.463	28.363	0.00	0.00
ATOM	7238	NE1	TRP	X	476	43.914	42.445	28.348	0.00	0.00
ATOM	7239	HE1	TRP	X	476	44.051	42.302	29.339	0.00	0.00
ATOM	7240	CE2	TRP	X	476	44.195	41.489	27.429	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	44.616	40.173	27.566	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	44.825	39.758	28.541	0.00	0.00
ATOM	7243	CH2	TRP	X	476	44.872	39.398	26.386	0.00	0.00
ATOM	7244	HH2	TRP	X	476	45.167	38.361	26.441	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	44.757	40.055	25.072	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	45.023	39.459	24.211	0.00	0.00
ATOM	7247	CE3	TRP	X	476	44.270	41.412	24.958	0.00	0.00
ATOM	7248	HE3	TRP	X	476	43.994	41.872	24.021	0.00	0.00
ATOM	7249	CD2	TRP	X	476	43.995	42.166	26.180	0.00	0.00
ATOM	7250	C	TRP	X	476	41.357	45.724	24.027	0.00	0.00
ATOM	7251	O	TRP	X	476	40.299	45.970	24.637	0.00	0.00
ATOM	7252	N	ALA	X	477	41.868	46.609	23.103	0.00	0.00
ATOM	7253	H	ALA	X	477	42.732	46.319	22.669	0.00	0.00
ATOM	7254	CA	ALA	X	477	41.093	47.823	22.774	0.00	0.00
ATOM	7255	HA	ALA	X	477	40.712	48.341	23.654	0.00	0.00
ATOM	7256	CB	ALA	X	477	42.013	48.879	22.195	0.00	0.00
ATOM	7257	HB1	ALA	X	477	42.306	48.583	21.187	0.00	0.00
ATOM	7258	HB2	ALA	X	477	41.446	49.799	22.051	0.00	0.00
ATOM	7259	HB3	ALA	X	477	42.775	49.287	22.858	0.00	0.00
ATOM	7260	C	ALA	X	477	39.808	47.563	21.985	0.00	0.00
ATOM	7261	O	ALA	X	477	38.778	48.207	22.279	0.00	0.00
ATOM	7262	N	ASN	X	478	39.719	46.481	21.205	0.00	0.00
ATOM	7263	H	ASN	X	478	40.592	46.056	20.927	0.00	0.00
ATOM	7264	CA	ASN	X	478	38.466	46.062	20.624	0.00	0.00
ATOM	7265	HA	ASN	X	478	37.957	46.939	20.224	0.00	0.00
ATOM	7266	CB	ASN	X	478	38.745	44.981	19.517	0.00	0.00
ATOM	7267	HB2	ASN	X	478	39.434	44.267	19.968	0.00	0.00
ATOM	7268	HB3	ASN	X	478	37.880	44.397	19.203	0.00	0.00
ATOM	7269	CG	ASN	X	478	39.369	45.643	18.296	0.00	0.00
ATOM	7270	OD1	ASN	X	478	39.048	46.773	17.969	0.00	0.00
ATOM	7271	ND2	ASN	X	478	40.145	44.822	17.591	0.00	0.00
ATOM	7272	HD21	ASN	X	478	40.294	45.223	16.677	0.00	0.00
ATOM	7273	HD22	ASN	X	478	40.327	43.864	17.855	0.00	0.00
ATOM	7274	C	ASN	X	478	37.506	45.438	21.599	0.00	0.00
ATOM	7275	O	ASN	X	478	36.316	45.788	21.546	0.00	0.00
ATOM	7276	N	PHE	X	479	38.000	44.725	22.620	0.00	0.00
ATOM	7277	H	PHE	X	479	38.982	44.498	22.563	0.00	0.00
ATOM	7278	CA	PHE	X	479	37.091	44.368	23.695	0.00	0.00

ATOM	7279	HA	PHE	X	479	36.199	43.881	23.301	0.00	0.00
ATOM	7280	CB	PHE	X	479	37.826	43.338	24.547	0.00	0.00
ATOM	7281	HB2	PHE	X	479	38.188	42.486	23.973	0.00	0.00
ATOM	7282	HB3	PHE	X	479	38.728	43.828	24.914	0.00	0.00
ATOM	7283	CG	PHE	X	479	37.056	42.785	25.753	0.00	0.00
ATOM	7284	CD1	PHE	X	479	36.139	41.750	25.560	0.00	0.00
ATOM	7285	HD1	PHE	X	479	35.953	41.274	24.609	0.00	0.00
ATOM	7286	CE1	PHE	X	479	35.282	41.383	26.657	0.00	0.00
ATOM	7287	HE1	PHE	X	479	34.530	40.630	26.479	0.00	0.00
ATOM	7288	CZ	PHE	X	479	35.411	41.960	27.910	0.00	0.00
ATOM	7289	HZ	PHE	X	479	34.737	41.928	28.753	0.00	0.00
ATOM	7290	CE2	PHE	X	479	36.559	42.816	28.073	0.00	0.00
ATOM	7291	HE2	PHE	X	479	36.711	43.233	29.058	0.00	0.00
ATOM	7292	CD2	PHE	X	479	37.315	43.306	27.042	0.00	0.00
ATOM	7293	HD2	PHE	X	479	37.981	44.118	27.293	0.00	0.00
ATOM	7294	C	PHE	X	479	36.611	45.566	24.587	0.00	0.00
ATOM	7295	O	PHE	X	479	35.513	45.611	25.112	0.00	0.00
ATOM	7296	N	ALA	X	480	37.385	46.658	24.679	0.00	0.00
ATOM	7297	H	ALA	X	480	38.317	46.569	24.299	0.00	0.00
ATOM	7298	CA	ALA	X	480	36.975	47.938	25.265	0.00	0.00
ATOM	7299	HA	ALA	X	480	36.464	47.636	26.179	0.00	0.00
ATOM	7300	CB	ALA	X	480	38.220	48.841	25.528	0.00	0.00
ATOM	7301	HB1	ALA	X	480	38.606	49.037	24.528	0.00	0.00
ATOM	7302	HB2	ALA	X	480	37.944	49.775	26.017	0.00	0.00
ATOM	7303	HB3	ALA	X	480	38.935	48.292	26.141	0.00	0.00
ATOM	7304	C	ALA	X	480	35.830	48.680	24.415	0.00	0.00
ATOM	7305	O	ALA	X	480	34.809	49.110	25.022	0.00	0.00
ATOM	7306	N	ARG	X	481	35.808	48.530	23.087	0.00	0.00
ATOM	7307	H	ARG	X	481	36.480	47.874	22.715	0.00	0.00
ATOM	7308	CA	ARG	X	481	34.819	49.189	22.199	0.00	0.00
ATOM	7309	HA	ARG	X	481	34.734	50.189	22.624	0.00	0.00
ATOM	7310	CB	ARG	X	481	35.434	49.342	20.842	0.00	0.00
ATOM	7311	HB2	ARG	X	481	35.773	48.323	20.654	0.00	0.00
ATOM	7312	HB3	ARG	X	481	34.662	49.636	20.131	0.00	0.00
ATOM	7313	CG	ARG	X	481	36.557	50.333	20.613	0.00	0.00
ATOM	7314	HG2	ARG	X	481	36.027	51.155	20.132	0.00	0.00
ATOM	7315	HG3	ARG	X	481	37.024	50.686	21.533	0.00	0.00
ATOM	7316	CD	ARG	X	481	37.648	49.978	19.665	0.00	0.00
ATOM	7317	HD2	ARG	X	481	37.950	48.958	19.905	0.00	0.00
ATOM	7318	HD3	ARG	X	481	37.232	50.021	18.659	0.00	0.00
ATOM	7319	NE	ARG	X	481	38.818	50.830	19.679	0.00	0.00
ATOM	7320	HE	ARG	X	481	38.583	51.810	19.612	0.00	0.00
ATOM	7321	CZ	ARG	X	481	40.075	50.455	19.400	0.00	0.00
ATOM	7322	NH1	ARG	X	481	40.442	49.270	19.076	0.00	0.00
ATOM	7323	HH11	ARG	X	481	39.784	48.504	19.045	0.00	0.00
ATOM	7324	HH12	ARG	X	481	41.367	49.267	18.670	0.00	0.00
ATOM	7325	NH2	ARG	X	481	40.980	51.358	19.358	0.00	0.00
ATOM	7326	HH21	ARG	X	481	40.966	52.240	19.850	0.00	0.00
ATOM	7327	HH22	ARG	X	481	41.823	51.028	18.910	0.00	0.00
ATOM	7328	C	ARG	X	481	33.428	48.540	22.244	0.00	0.00
ATOM	7329	O	ARG	X	481	32.428	49.247	22.151	0.00	0.00
ATOM	7330	N	THR	X	482	33.311	47.195	22.147	0.00	0.00
ATOM	7331	H	THR	X	482	34.116	46.638	21.900	0.00	0.00
ATOM	7332	CA	THR	X	482	32.028	46.487	22.078	0.00	0.00
ATOM	7333	HA	THR	X	482	31.190	47.139	22.324	0.00	0.00
ATOM	7334	CB	THR	X	482	31.710	45.999	20.651	0.00	0.00
ATOM	7335	HB	THR	X	482	30.670	45.672	20.640	0.00	0.00
ATOM	7336	CG2	THR	X	482	31.811	47.073	19.579	0.00	0.00
ATOM	7337	HG21	THR	X	482	31.280	47.960	19.923	0.00	0.00
ATOM	7338	HG22	THR	X	482	32.843	47.301	19.313	0.00	0.00
ATOM	7339	HG23	THR	X	482	31.165	46.676	18.796	0.00	0.00
ATOM	7340	OG1	THR	X	482	32.473	44.959	20.302	0.00	0.00
ATOM	7341	HG1	THR	X	482	31.933	44.168	20.242	0.00	0.00
ATOM	7342	C	THR	X	482	31.906	45.396	23.120	0.00	0.00
ATOM	7343	O	THR	X	482	30.792	44.925	23.443	0.00	0.00
ATOM	7344	N	GLY	X	483	33.037	44.872	23.589	0.00	0.00
ATOM	7345	H	GLY	X	483	33.897	45.359	23.378	0.00	0.00
ATOM	7346	CA	GLY	X	483	33.114	43.603	24.416	0.00	0.00
ATOM	7347	HA2	GLY	X	483	33.918	43.747	25.176	0.00	0.00
ATOM	7348	HA3	GLY	X	483	32.093	43.311	24.845	0.00	0.00

ATOM	7349	C	GLY	X	483	33.547	42.444	23.496	0.00	0.00
ATOM	7350	O	GLY	X	483	33.379	41.323	23.952	0.00	0.00
ATOM	7351	N	ASP	X	484	33.903	42.721	22.249	0.00	0.00
ATOM	7352	H	ASP	X	484	33.688	43.676	22.001	0.00	0.00
ATOM	7353	CA	ASP	X	484	34.262	41.749	21.245	0.00	0.00
ATOM	7354	HA	ASP	X	484	34.200	40.714	21.581	0.00	0.00
ATOM	7355	CB	ASP	X	484	33.320	41.801	20.026	0.00	0.00
ATOM	7356	HB2	ASP	X	484	33.489	42.661	19.378	0.00	0.00
ATOM	7357	HB3	ASP	X	484	33.620	40.903	19.485	0.00	0.00
ATOM	7358	CG	ASP	X	484	31.770	41.716	20.282	0.00	0.00
ATOM	7359	OD1	ASP	X	484	31.015	42.759	20.320	0.00	0.00
ATOM	7360	OD2	ASP	X	484	31.271	40.573	20.467	0.00	0.00
ATOM	7361	C	ASP	X	484	35.771	41.998	20.869	0.00	0.00
ATOM	7362	O	ASP	X	484	36.066	43.063	20.293	0.00	0.00
ATOM	7363	N	PRO	X	485	36.729	41.077	21.143	0.00	0.00
ATOM	7364	CD	PRO	X	485	36.506	39.888	21.984	0.00	0.00
ATOM	7365	HD2	PRO	X	485	36.148	39.090	21.334	0.00	0.00
ATOM	7366	HD3	PRO	X	485	35.831	40.236	22.765	0.00	0.00
ATOM	7367	CG	PRO	X	485	37.814	39.499	22.505	0.00	0.00
ATOM	7368	HG2	PRO	X	485	37.952	38.438	22.715	0.00	0.00
ATOM	7369	HG3	PRO	X	485	38.128	39.992	23.425	0.00	0.00
ATOM	7370	CB	PRO	X	485	38.733	39.892	21.392	0.00	0.00
ATOM	7371	HB2	PRO	X	485	38.759	39.204	20.547	0.00	0.00
ATOM	7372	HB3	PRO	X	485	39.736	40.113	21.757	0.00	0.00
ATOM	7373	CA	PRO	X	485	38.150	41.201	20.822	0.00	0.00
ATOM	7374	HA	PRO	X	485	38.510	42.011	21.457	0.00	0.00
ATOM	7375	C	PRO	X	485	38.558	41.456	19.340	0.00	0.00
ATOM	7376	O	PRO	X	485	39.763	41.256	19.039	0.00	0.00
ATOM	7377	N	ASN	X	486	37.568	41.733	18.478	0.00	0.00
ATOM	7378	H	ASN	X	486	36.612	41.795	18.797	0.00	0.00
ATOM	7379	CA	ASN	X	486	37.719	41.637	17.020	0.00	0.00
ATOM	7380	HA	ASN	X	486	38.710	41.256	16.773	0.00	0.00
ATOM	7381	CB	ASN	X	486	36.781	40.499	16.476	0.00	0.00
ATOM	7382	HB2	ASN	X	486	36.865	40.649	15.400	0.00	0.00
ATOM	7383	HB3	ASN	X	486	37.297	39.587	16.775	0.00	0.00
ATOM	7384	CG	ASN	X	486	35.312	40.675	16.833	0.00	0.00
ATOM	7385	OD1	ASN	X	486	34.703	39.911	17.582	0.00	0.00
ATOM	7386	ND2	ASN	X	486	34.662	41.579	16.187	0.00	0.00
ATOM	7387	HD21	ASN	X	486	33.722	41.661	16.547	0.00	0.00
ATOM	7388	HD22	ASN	X	486	35.116	42.186	15.520	0.00	0.00
ATOM	7389	C	ASN	X	486	37.396	42.985	16.292	0.00	0.00
ATOM	7390	O	ASN	X	486	36.877	43.906	16.922	0.00	0.00
ATOM	7391	N	GLU	X	487	37.829	43.067	15.016	0.00	0.00
ATOM	7392	H	GLU	X	487	38.379	42.313	14.630	0.00	0.00
ATOM	7393	CA	GLU	X	487	37.778	44.296	14.193	0.00	0.00
ATOM	7394	HA	GLU	X	487	38.282	45.147	14.652	0.00	0.00
ATOM	7395	CB	GLU	X	487	38.552	43.990	12.933	0.00	0.00
ATOM	7396	HB2	GLU	X	487	38.208	43.029	12.551	0.00	0.00
ATOM	7397	HB3	GLU	X	487	38.370	44.735	12.158	0.00	0.00
ATOM	7398	CG	GLU	X	487	40.058	43.959	13.085	0.00	0.00
ATOM	7399	HG2	GLU	X	487	40.217	43.168	13.818	0.00	0.00
ATOM	7400	HG3	GLU	X	487	40.522	43.657	12.146	0.00	0.00
ATOM	7401	CD	GLU	X	487	40.612	45.298	13.704	0.00	0.00
ATOM	7402	OE1	GLU	X	487	41.014	45.321	14.856	0.00	0.00
ATOM	7403	OE2	GLU	X	487	40.498	46.390	13.049	0.00	0.00
ATOM	7404	C	GLU	X	487	36.297	44.666	13.896	0.00	0.00
ATOM	7405	O	GLU	X	487	35.427	43.815	14.042	0.00	0.00
ATOM	7406	N	PRO	X	488	35.948	45.941	13.588	0.00	0.00
ATOM	7407	CD	PRO	X	488	36.839	47.098	13.732	0.00	0.00
ATOM	7408	HD2	PRO	X	488	37.488	47.229	12.866	0.00	0.00
ATOM	7409	HD3	PRO	X	488	37.481	47.025	14.610	0.00	0.00
ATOM	7410	CG	PRO	X	488	35.985	48.389	13.597	0.00	0.00
ATOM	7411	HG2	PRO	X	488	36.459	49.157	12.985	0.00	0.00
ATOM	7412	HG3	PRO	X	488	35.721	48.899	14.523	0.00	0.00
ATOM	7413	CB	PRO	X	488	34.736	47.849	13.011	0.00	0.00
ATOM	7414	HB2	PRO	X	488	34.720	48.154	11.964	0.00	0.00
ATOM	7415	HB3	PRO	X	488	33.849	48.243	13.506	0.00	0.00
ATOM	7416	CA	PRO	X	488	34.644	46.325	13.099	0.00	0.00
ATOM	7417	HA	PRO	X	488	33.863	46.151	13.839	0.00	0.00
ATOM	7418	C	PRO	X	488	34.424	45.781	11.764	0.00	0.00

ATOM	7419	O	PRO	X	488	33.251	45.706	11.361	0.00	0.00
ATOM	7420	N	ARG	X	489	35.431	45.413	11.037	0.00	0.00
ATOM	7421	H	ARG	X	489	36.291	45.307	11.558	0.00	0.00
ATOM	7422	CA	ARG	X	489	35.339	44.669	9.765	0.00	0.00
ATOM	7423	HA	ARG	X	489	34.323	44.278	9.704	0.00	0.00
ATOM	7424	CB	ARG	X	489	35.375	45.589	8.559	0.00	0.00
ATOM	7425	HB2	ARG	X	489	35.079	45.082	7.642	0.00	0.00
ATOM	7426	HB3	ARG	X	489	34.632	46.329	8.858	0.00	0.00
ATOM	7427	CG	ARG	X	489	36.733	46.210	8.335	0.00	0.00
ATOM	7428	HG2	ARG	X	489	37.015	46.775	9.224	0.00	0.00
ATOM	7429	HG3	ARG	X	489	37.419	45.377	8.183	0.00	0.00
ATOM	7430	CD	ARG	X	489	36.741	47.131	7.145	0.00	0.00
ATOM	7431	HD2	ARG	X	489	36.309	46.723	6.231	0.00	0.00
ATOM	7432	HD3	ARG	X	489	36.186	48.023	7.436	0.00	0.00
ATOM	7433	NE	ARG	X	489	38.051	47.506	6.784	0.00	0.00
ATOM	7434	HE	ARG	X	489	38.481	46.882	6.116	0.00	0.00
ATOM	7435	CZ	ARG	X	489	38.867	48.489	7.195	0.00	0.00
ATOM	7436	NH1	ARG	X	489	40.142	48.553	6.765	0.00	0.00
ATOM	7437	HH11	ARG	X	489	40.504	47.745	6.280	0.00	0.00
ATOM	7438	HH12	ARG	X	489	40.709	49.378	6.904	0.00	0.00
ATOM	7439	NH2	ARG	X	489	38.479	49.436	7.938	0.00	0.00
ATOM	7440	HH21	ARG	X	489	37.482	49.449	8.097	0.00	0.00
ATOM	7441	HH22	ARG	X	489	38.932	50.336	7.864	0.00	0.00
ATOM	7442	C	ARG	X	489	36.343	43.473	9.703	0.00	0.00
ATOM	7443	O	ARG	X	489	37.511	43.686	10.112	0.00	0.00
ATOM	7444	N	ASP	X	490	35.919	42.266	9.494	0.00	0.00
ATOM	7445	H	ASP	X	490	34.917	42.153	9.439	0.00	0.00
ATOM	7446	CA	ASP	X	490	36.784	41.051	9.534	0.00	0.00
ATOM	7447	HA	ASP	X	490	37.154	40.887	10.546	0.00	0.00
ATOM	7448	CB	ASP	X	490	35.933	39.830	9.327	0.00	0.00
ATOM	7449	HB2	ASP	X	490	36.581	38.962	9.445	0.00	0.00
ATOM	7450	HB3	ASP	X	490	35.271	39.667	10.177	0.00	0.00
ATOM	7451	CG	ASP	X	490	35.203	39.739	8.010	0.00	0.00
ATOM	7452	OD1	ASP	X	490	34.116	40.358	7.863	0.00	0.00
ATOM	7453	OD2	ASP	X	490	35.658	38.957	7.125	0.00	0.00
ATOM	7454	C	ASP	X	490	37.912	41.172	8.505	0.00	0.00
ATOM	7455	O	ASP	X	490	37.668	41.450	7.328	0.00	0.00
ATOM	7456	N	PRO	X	491	39.153	40.809	8.907	0.00	0.00
ATOM	7457	CD	PRO	X	491	39.695	40.692	10.204	0.00	0.00
ATOM	7458	HD2	PRO	X	491	39.607	39.642	10.485	0.00	0.00
ATOM	7459	HD3	PRO	X	491	39.287	41.317	10.998	0.00	0.00
ATOM	7460	CG	PRO	X	491	41.207	41.084	10.044	0.00	0.00
ATOM	7461	HG2	PRO	X	491	41.865	40.886	10.890	0.00	0.00
ATOM	7462	HG3	PRO	X	491	41.347	42.161	9.949	0.00	0.00
ATOM	7463	CB	PRO	X	491	41.521	40.339	8.804	0.00	0.00
ATOM	7464	HB2	PRO	X	491	41.771	39.326	9.118	0.00	0.00
ATOM	7465	HB3	PRO	X	491	42.408	40.796	8.366	0.00	0.00
ATOM	7466	CA	PRO	X	491	40.260	40.541	7.957	0.00	0.00
ATOM	7467	HA	PRO	X	491	40.317	41.424	7.322	0.00	0.00
ATOM	7468	C	PRO	X	491	39.993	39.345	7.020	0.00	0.00
ATOM	7469	O	PRO	X	491	38.921	38.710	7.068	0.00	0.00
ATOM	7470	N	LYS	X	492	40.971	38.988	6.176	0.00	0.00
ATOM	7471	H	LYS	X	492	41.811	39.548	6.216	0.00	0.00
ATOM	7472	CA	LYS	X	492	40.981	37.805	5.285	0.00	0.00
ATOM	7473	HA	LYS	X	492	40.026	37.721	4.765	0.00	0.00
ATOM	7474	CB	LYS	X	492	42.148	38.021	4.269	0.00	0.00
ATOM	7475	HB2	LYS	X	492	42.115	37.123	3.651	0.00	0.00
ATOM	7476	HB3	LYS	X	492	42.149	38.929	3.667	0.00	0.00
ATOM	7477	CG	LYS	X	492	43.510	37.968	4.973	0.00	0.00
ATOM	7478	HG2	LYS	X	492	43.662	38.926	5.471	0.00	0.00
ATOM	7479	HG3	LYS	X	492	43.665	37.217	5.747	0.00	0.00
ATOM	7480	CD	LYS	X	492	44.592	37.733	3.904	0.00	0.00
ATOM	7481	HD2	LYS	X	492	44.416	36.750	3.468	0.00	0.00
ATOM	7482	HD3	LYS	X	492	44.534	38.555	3.190	0.00	0.00
ATOM	7483	CE	LYS	X	492	46.025	37.719	4.553	0.00	0.00
ATOM	7484	HE2	LYS	X	492	46.112	36.938	5.307	0.00	0.00
ATOM	7485	HE3	LYS	X	492	46.736	37.390	3.795	0.00	0.00
ATOM	7486	NZ	LYS	X	492	46.469	39.083	4.998	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	47.467	39.106	5.146	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	46.351	39.826	4.324	0.00	0.00

ATOM	7489	HZ3	LYS	X	492	46.004	39.480	5.802	0.00	0.00
ATOM	7490	C	LYS	X	492	41.068	36.409	5.926	0.00	0.00
ATOM	7491	O	LYS	X	492	41.445	35.413	5.266	0.00	0.00
ATOM	7492	N	ALA	X	493	40.855	36.422	7.226	0.00	0.00
ATOM	7493	H	ALA	X	493	40.286	37.168	7.599	0.00	0.00
ATOM	7494	CA	ALA	X	493	41.345	35.359	8.110	0.00	0.00
ATOM	7495	HA	ALA	X	493	41.330	34.448	7.511	0.00	0.00
ATOM	7496	CB	ALA	X	493	42.757	35.602	8.681	0.00	0.00
ATOM	7497	HB1	ALA	X	493	43.495	35.728	7.889	0.00	0.00
ATOM	7498	HB2	ALA	X	493	42.861	36.512	9.273	0.00	0.00
ATOM	7499	HB3	ALA	X	493	43.102	34.748	9.265	0.00	0.00
ATOM	7500	C	ALA	X	493	40.383	35.218	9.254	0.00	0.00
ATOM	7501	O	ALA	X	493	39.846	36.224	9.620	0.00	0.00
ATOM	7502	N	PRO	X	494	40.327	34.028	10.015	0.00	0.00
ATOM	7503	CD	PRO	X	494	40.773	32.708	9.625	0.00	0.00
ATOM	7504	HD2	PRO	X	494	41.803	32.612	9.970	0.00	0.00
ATOM	7505	HD3	PRO	X	494	40.669	32.550	8.552	0.00	0.00
ATOM	7506	CG	PRO	X	494	40.031	31.676	10.468	0.00	0.00
ATOM	7507	HG2	PRO	X	494	40.671	30.810	10.633	0.00	0.00
ATOM	7508	HG3	PRO	X	494	39.072	31.371	10.049	0.00	0.00
ATOM	7509	CB	PRO	X	494	39.807	32.428	11.765	0.00	0.00
ATOM	7510	HB2	PRO	X	494	40.726	32.376	12.349	0.00	0.00
ATOM	7511	HB3	PRO	X	494	38.952	32.004	12.290	0.00	0.00
ATOM	7512	CA	PRO	X	494	39.593	33.897	11.311	0.00	0.00
ATOM	7513	HA	PRO	X	494	38.514	34.016	11.214	0.00	0.00
ATOM	7514	C	PRO	X	494	40.008	34.887	12.436	0.00	0.00
ATOM	7515	O	PRO	X	494	41.041	35.508	12.251	0.00	0.00
ATOM	7516	N	GLN	X	495	39.277	34.956	13.546	0.00	0.00
ATOM	7517	H	GLN	X	495	38.382	34.492	13.478	0.00	0.00
ATOM	7518	CA	GLN	X	495	39.578	35.814	14.708	0.00	0.00
ATOM	7519	HA	GLN	X	495	40.653	35.956	14.818	0.00	0.00
ATOM	7520	CB	GLN	X	495	38.800	37.123	14.641	0.00	0.00
ATOM	7521	HB2	GLN	X	495	37.738	36.931	14.484	0.00	0.00
ATOM	7522	HB3	GLN	X	495	38.852	37.686	15.572	0.00	0.00
ATOM	7523	CG	GLN	X	495	39.345	37.994	13.542	0.00	0.00
ATOM	7524	HG2	GLN	X	495	40.403	38.198	13.707	0.00	0.00
ATOM	7525	HG3	GLN	X	495	39.343	37.491	12.575	0.00	0.00
ATOM	7526	CD	GLN	X	495	38.549	39.328	13.357	0.00	0.00
ATOM	7527	OE1	GLN	X	495	39.062	40.373	13.782	0.00	0.00
ATOM	7528	NE2	GLN	X	495	37.308	39.246	12.815	0.00	0.00
ATOM	7529	HE21	GLN	X	495	36.775	40.104	12.829	0.00	0.00
ATOM	7530	HE22	GLN	X	495	36.912	38.387	12.463	0.00	0.00
ATOM	7531	C	GLN	X	495	39.244	35.001	15.982	0.00	0.00
ATOM	7532	O	GLN	X	495	38.767	33.916	15.987	0.00	0.00
ATOM	7533	N	TRP	X	496	39.444	35.607	17.152	0.00	0.00
ATOM	7534	H	TRP	X	496	39.642	36.598	17.139	0.00	0.00
ATOM	7535	CA	TRP	X	496	39.187	35.083	18.491	0.00	0.00
ATOM	7536	HA	TRP	X	496	39.628	34.087	18.535	0.00	0.00
ATOM	7537	CB	TRP	X	496	39.993	35.928	19.548	0.00	0.00
ATOM	7538	HB2	TRP	X	496	41.057	35.878	19.319	0.00	0.00
ATOM	7539	HB3	TRP	X	496	39.701	36.963	19.369	0.00	0.00
ATOM	7540	CG	TRP	X	496	39.929	35.673	20.991	0.00	0.00
ATOM	7541	CD1	TRP	X	496	39.236	34.772	21.704	0.00	0.00
ATOM	7542	HD1	TRP	X	496	38.550	34.004	21.379	0.00	0.00
ATOM	7543	NE1	TRP	X	496	39.613	34.762	23.012	0.00	0.00
ATOM	7544	HE1	TRP	X	496	39.362	34.056	23.690	0.00	0.00
ATOM	7545	CE2	TRP	X	496	40.427	35.854	23.301	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	40.946	36.449	24.460	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	40.705	35.968	25.397	0.00	0.00
ATOM	7548	CH2	TRP	X	496	41.833	37.482	24.396	0.00	0.00
ATOM	7549	HH2	TRP	X	496	42.258	37.845	25.321	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	42.162	38.058	23.143	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	42.830	38.907	23.118	0.00	0.00
ATOM	7552	CE3	TRP	X	496	41.588	37.574	21.945	0.00	0.00
ATOM	7553	HE3	TRP	X	496	41.819	38.143	21.056	0.00	0.00
ATOM	7554	CD2	TRP	X	496	40.735	36.436	22.025	0.00	0.00
ATOM	7555	C	TRP	X	496	37.659	34.932	18.746	0.00	0.00
ATOM	7556	O	TRP	X	496	36.985	35.911	18.957	0.00	0.00
ATOM	7557	N	PRO	X	497	37.129	33.712	18.736	0.00	0.00
ATOM	7558	CD	PRO	X	497	37.812	32.441	18.473	0.00	0.00

ATOM	7559	HD2	PRO	X	497	38.607	32.253	19.194	0.00	0.00
ATOM	7560	HD3	PRO	X	497	38.209	32.173	17.494	0.00	0.00
ATOM	7561	CG	PRO	X	497	36.797	31.276	18.630	0.00	0.00
ATOM	7562	HG2	PRO	X	497	36.683	30.888	19.642	0.00	0.00
ATOM	7563	HG3	PRO	X	497	37.019	30.412	18.005	0.00	0.00
ATOM	7564	CB	PRO	X	497	35.458	32.033	18.376	0.00	0.00
ATOM	7565	HB2	PRO	X	497	34.683	31.399	18.805	0.00	0.00
ATOM	7566	HB3	PRO	X	497	35.309	32.184	17.306	0.00	0.00
ATOM	7567	CA	PRO	X	497	35.677	33.422	18.924	0.00	0.00
ATOM	7568	HA	PRO	X	497	35.093	34.263	18.552	0.00	0.00
ATOM	7569	C	PRO	X	497	35.413	33.476	20.428	0.00	0.00
ATOM	7570	O	PRO	X	497	36.355	33.504	21.268	0.00	0.00
ATOM	7571	N	PRO	X	498	34.130	33.423	20.810	0.00	0.00
ATOM	7572	CD	PRO	X	498	32.972	33.630	19.941	0.00	0.00
ATOM	7573	HD2	PRO	X	498	32.790	32.715	19.378	0.00	0.00
ATOM	7574	HD3	PRO	X	498	33.127	34.553	19.383	0.00	0.00
ATOM	7575	CG	PRO	X	498	31.823	33.758	20.940	0.00	0.00
ATOM	7576	HG2	PRO	X	498	31.358	32.774	21.006	0.00	0.00
ATOM	7577	HG3	PRO	X	498	31.076	34.477	20.602	0.00	0.00
ATOM	7578	CB	PRO	X	498	32.441	34.154	22.317	0.00	0.00
ATOM	7579	HB2	PRO	X	498	31.840	33.812	23.160	0.00	0.00
ATOM	7580	HB3	PRO	X	498	32.764	35.192	22.387	0.00	0.00
ATOM	7581	CA	PRO	X	498	33.648	33.268	22.220	0.00	0.00
ATOM	7582	HA	PRO	X	498	34.436	33.608	22.891	0.00	0.00
ATOM	7583	C	PRO	X	498	33.468	31.808	22.656	0.00	0.00
ATOM	7584	O	PRO	X	498	33.408	30.843	21.824	0.00	0.00
ATOM	7585	N	TYR	X	499	33.385	31.692	24.009	0.00	0.00
ATOM	7586	H	TYR	X	499	33.330	32.576	24.493	0.00	0.00
ATOM	7587	CA	TYR	X	499	33.204	30.458	24.748	0.00	0.00
ATOM	7588	HA	TYR	X	499	33.601	29.659	24.122	0.00	0.00
ATOM	7589	CB	TYR	X	499	34.072	30.654	26.049	0.00	0.00
ATOM	7590	HB2	TYR	X	499	34.991	31.123	25.698	0.00	0.00
ATOM	7591	HB3	TYR	X	499	33.699	31.438	26.709	0.00	0.00
ATOM	7592	CG	TYR	X	499	34.376	29.451	26.881	0.00	0.00
ATOM	7593	CD1	TYR	X	499	33.432	28.861	27.756	0.00	0.00
ATOM	7594	HD1	TYR	X	499	32.406	29.185	27.664	0.00	0.00
ATOM	7595	CE1	TYR	X	499	33.767	27.869	28.721	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.094	27.340	29.379	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.155	27.608	28.825	0.00	0.00
ATOM	7598	OH	TYR	X	499	35.589	26.846	29.858	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.864	26.469	30.361	0.00	0.00
ATOM	7600	CE2	TYR	X	499	36.132	28.164	27.927	0.00	0.00
ATOM	7601	HE2	TYR	X	499	37.152	27.820	28.019	0.00	0.00
ATOM	7602	CD2	TYR	X	499	35.720	29.152	27.057	0.00	0.00
ATOM	7603	HD2	TYR	X	499	36.466	29.613	26.427	0.00	0.00
ATOM	7604	C	TYR	X	499	31.731	30.215	25.151	0.00	0.00
ATOM	7605	O	TYR	X	499	31.026	31.112	25.580	0.00	0.00
ATOM	7606	N	THR	X	500	31.285	28.954	25.101	0.00	0.00
ATOM	7607	H	THR	X	500	31.904	28.283	24.669	0.00	0.00
ATOM	7608	CA	THR	X	500	30.086	28.376	25.646	0.00	0.00
ATOM	7609	HA	THR	X	500	29.660	29.129	26.309	0.00	0.00
ATOM	7610	CB	THR	X	500	29.118	27.923	24.540	0.00	0.00
ATOM	7611	HB	THR	X	500	28.155	27.512	24.842	0.00	0.00
ATOM	7612	CG2	THR	X	500	28.728	29.149	23.731	0.00	0.00
ATOM	7613	HG21	THR	X	500	29.517	29.604	23.132	0.00	0.00
ATOM	7614	HG22	THR	X	500	27.870	28.941	23.091	0.00	0.00
ATOM	7615	HG23	THR	X	500	28.343	29.873	24.449	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.753	27.026	23.717	0.00	0.00
ATOM	7617	HG1	THR	X	500	29.375	26.159	23.882	0.00	0.00
ATOM	7618	C	THR	X	500	30.437	27.165	26.611	0.00	0.00
ATOM	7619	O	THR	X	500	31.437	26.519	26.360	0.00	0.00
ATOM	7620	N	ALA	X	501	29.587	26.987	27.588	0.00	0.00
ATOM	7621	H	ALA	X	501	28.683	27.437	27.556	0.00	0.00
ATOM	7622	CA	ALA	X	501	29.957	26.179	28.743	0.00	0.00
ATOM	7623	HA	ALA	X	501	30.865	26.582	29.191	0.00	0.00
ATOM	7624	CB	ALA	X	501	28.907	26.382	29.839	0.00	0.00
ATOM	7625	HB1	ALA	X	501	28.687	27.432	30.034	0.00	0.00
ATOM	7626	HB2	ALA	X	501	27.944	25.902	29.664	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.415	26.004	30.726	0.00	0.00
ATOM	7628	C	ALA	X	501	30.251	24.690	28.414	0.00	0.00

ATOM	7629	O	ALA	X	501	31.001	24.131	29.159	0.00	0.00
ATOM	7630	N	GLY	X	502	29.690	24.044	27.387	0.00	0.00
ATOM	7631	H	GLY	X	502	28.994	24.512	26.823	0.00	0.00
ATOM	7632	CA	GLY	X	502	29.968	22.675	26.944	0.00	0.00
ATOM	7633	HA2	GLY	X	502	30.078	22.080	27.890	0.00	0.00
ATOM	7634	HA3	GLY	X	502	29.126	22.193	26.390	0.00	0.00
ATOM	7635	C	GLY	X	502	31.161	22.500	26.134	0.00	0.00
ATOM	7636	O	GLY	X	502	32.129	21.857	26.509	0.00	0.00
ATOM	7637	N	ALA	X	503	31.169	23.256	25.055	0.00	0.00
ATOM	7638	H	ALA	X	503	30.368	23.828	24.828	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.295	23.227	24.050	0.00	0.00
ATOM	7640	HA	ALA	X	503	32.450	22.272	23.548	0.00	0.00
ATOM	7641	CB	ALA	X	503	31.851	24.206	22.946	0.00	0.00
ATOM	7642	HB1	ALA	X	503	30.799	24.167	22.662	0.00	0.00
ATOM	7643	HB2	ALA	X	503	31.957	25.229	23.309	0.00	0.00
ATOM	7644	HB3	ALA	X	503	32.311	23.896	22.008	0.00	0.00
ATOM	7645	C	ALA	X	503	33.642	23.753	24.590	0.00	0.00
ATOM	7646	O	ALA	X	503	34.566	23.046	24.347	0.00	0.00
ATOM	7647	N	GLN	X	504	33.636	24.768	25.463	0.00	0.00
ATOM	7648	H	GLN	X	504	32.736	25.214	25.571	0.00	0.00
ATOM	7649	CA	GLN	X	504	34.823	25.225	26.183	0.00	0.00
ATOM	7650	HA	GLN	X	504	34.527	26.088	26.781	0.00	0.00
ATOM	7651	CB	GLN	X	504	35.270	24.147	27.240	0.00	0.00
ATOM	7652	HB2	GLN	X	504	35.571	23.245	26.706	0.00	0.00
ATOM	7653	HB3	GLN	X	504	36.141	24.558	27.751	0.00	0.00
ATOM	7654	CG	GLN	X	504	34.114	23.907	28.310	0.00	0.00
ATOM	7655	HG2	GLN	X	504	33.760	24.793	28.838	0.00	0.00
ATOM	7656	HG3	GLN	X	504	33.208	23.591	27.794	0.00	0.00
ATOM	7657	CD	GLN	X	504	34.372	22.938	29.387	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.486	22.493	29.628	0.00	0.00
ATOM	7659	NE2	GLN	X	504	33.324	22.658	30.163	0.00	0.00
ATOM	7660	HE21	GLN	X	504	33.481	21.989	30.903	0.00	0.00
ATOM	7661	HE22	GLN	X	504	32.425	23.090	30.001	0.00	0.00
ATOM	7662	C	GLN	X	504	35.929	25.771	25.258	0.00	0.00
ATOM	7663	O	GLN	X	504	37.025	25.272	25.311	0.00	0.00
ATOM	7664	N	GLN	X	505	35.676	26.711	24.307	0.00	0.00
ATOM	7665	H	GLN	X	505	34.715	27.020	24.303	0.00	0.00
ATOM	7666	CA	GLN	X	505	36.583	27.172	23.269	0.00	0.00
ATOM	7667	HA	GLN	X	505	37.206	26.367	22.879	0.00	0.00
ATOM	7668	CB	GLN	X	505	35.646	27.583	22.177	0.00	0.00
ATOM	7669	HB2	GLN	X	505	34.913	26.864	21.811	0.00	0.00
ATOM	7670	HB3	GLN	X	505	35.126	28.431	22.623	0.00	0.00
ATOM	7671	CG	GLN	X	505	36.469	27.888	20.889	0.00	0.00
ATOM	7672	HG2	GLN	X	505	36.881	28.895	20.960	0.00	0.00
ATOM	7673	HG3	GLN	X	505	37.282	27.189	20.693	0.00	0.00
ATOM	7674	CD	GLN	X	505	35.557	27.985	19.677	0.00	0.00
ATOM	7675	OE1	GLN	X	505	35.648	27.236	18.756	0.00	0.00
ATOM	7676	NE2	GLN	X	505	34.651	28.963	19.657	0.00	0.00
ATOM	7677	HE21	GLN	X	505	34.038	28.994	18.856	0.00	0.00
ATOM	7678	HE22	GLN	X	505	34.660	29.535	20.490	0.00	0.00
ATOM	7679	C	GLN	X	505	37.579	28.233	23.823	0.00	0.00
ATOM	7680	O	GLN	X	505	37.096	29.359	24.076	0.00	0.00
ATOM	7681	N	TYR	X	506	38.881	28.042	23.991	0.00	0.00
ATOM	7682	H	TYR	X	506	39.269	27.183	23.628	0.00	0.00
ATOM	7683	CA	TYR	X	506	39.904	29.080	24.398	0.00	0.00
ATOM	7684	HA	TYR	X	506	39.385	30.038	24.439	0.00	0.00
ATOM	7685	CB	TYR	X	506	40.389	28.666	25.793	0.00	0.00
ATOM	7686	HB2	TYR	X	506	40.963	29.515	26.163	0.00	0.00
ATOM	7687	HB3	TYR	X	506	39.609	28.513	26.539	0.00	0.00
ATOM	7688	CG	TYR	X	506	41.364	27.536	25.839	0.00	0.00
ATOM	7689	CD1	TYR	X	506	40.749	26.286	25.806	0.00	0.00
ATOM	7690	HD1	TYR	X	506	39.680	26.137	25.813	0.00	0.00
ATOM	7691	CE1	TYR	X	506	41.578	25.170	25.738	0.00	0.00
ATOM	7692	HE1	TYR	X	506	41.238	24.145	25.707	0.00	0.00
ATOM	7693	CZ	TYR	X	506	43.058	25.284	25.733	0.00	0.00
ATOM	7694	OH	TYR	X	506	43.920	24.244	25.734	0.00	0.00
ATOM	7695	HH	TYR	X	506	43.500	23.386	25.638	0.00	0.00
ATOM	7696	CE2	TYR	X	506	43.645	26.590	25.682	0.00	0.00
ATOM	7697	HE2	TYR	X	506	44.717	26.701	25.750	0.00	0.00
ATOM	7698	CD2	TYR	X	506	42.746	27.732	25.712	0.00	0.00

ATOM	7699	HD2	TYR	X	506	43.023	28.773	25.632	0.00	0.00
ATOM	7700	C	TYR	X	506	41.048	29.195	23.405	0.00	0.00
ATOM	7701	O	TYR	X	506	41.324	28.232	22.731	0.00	0.00
ATOM	7702	N	VAL	X	507	41.661	30.389	23.129	0.00	0.00
ATOM	7703	H	VAL	X	507	41.439	31.172	23.728	0.00	0.00
ATOM	7704	CA	VAL	X	507	42.877	30.541	22.233	0.00	0.00
ATOM	7705	HA	VAL	X	507	42.821	29.843	21.399	0.00	0.00
ATOM	7706	CB	VAL	X	507	42.823	31.955	21.473	0.00	0.00
ATOM	7707	HB	VAL	X	507	43.697	32.011	20.825	0.00	0.00
ATOM	7708	CG1	VAL	X	507	41.489	32.164	20.673	0.00	0.00
ATOM	7709	HG11	VAL	X	507	41.422	33.196	20.329	0.00	0.00
ATOM	7710	HG12	VAL	X	507	41.466	31.431	19.867	0.00	0.00
ATOM	7711	HG13	VAL	X	507	40.561	31.956	21.206	0.00	0.00
ATOM	7712	CG2	VAL	X	507	42.816	33.139	22.413	0.00	0.00
ATOM	7713	HG21	VAL	X	507	41.981	33.106	23.113	0.00	0.00
ATOM	7714	HG22	VAL	X	507	43.717	33.317	22.999	0.00	0.00
ATOM	7715	HG23	VAL	X	507	42.753	34.070	21.848	0.00	0.00
ATOM	7716	C	VAL	X	507	44.273	30.359	22.922	0.00	0.00
ATOM	7717	O	VAL	X	507	44.447	30.510	24.101	0.00	0.00
ATOM	7718	N	SER	X	508	45.303	30.108	22.101	0.00	0.00
ATOM	7719	H	SER	X	508	45.019	29.882	21.159	0.00	0.00
ATOM	7720	CA	SER	X	508	46.747	30.344	22.356	0.00	0.00
ATOM	7721	HA	SER	X	508	46.924	30.452	23.426	0.00	0.00
ATOM	7722	CB	SER	X	508	47.605	29.074	21.908	0.00	0.00
ATOM	7723	HB2	SER	X	508	47.368	28.224	22.549	0.00	0.00
ATOM	7724	HB3	SER	X	508	47.329	28.819	20.885	0.00	0.00
ATOM	7725	OG	SER	X	508	48.986	29.419	21.996	0.00	0.00
ATOM	7726	HG	SER	X	508	49.350	28.634	22.410	0.00	0.00
ATOM	7727	C	SER	X	508	47.171	31.676	21.822	0.00	0.00
ATOM	7728	O	SER	X	508	46.603	32.143	20.873	0.00	0.00
ATOM	7729	N	LEU	X	509	48.165	32.317	22.481	0.00	0.00
ATOM	7730	H	LEU	X	509	48.343	32.051	23.439	0.00	0.00
ATOM	7731	CA	LEU	X	509	48.596	33.601	22.055	0.00	0.00
ATOM	7732	HA	LEU	X	509	48.308	33.732	21.012	0.00	0.00
ATOM	7733	CB	LEU	X	509	48.022	34.778	22.952	0.00	0.00
ATOM	7734	HB2	LEU	X	509	48.286	34.616	23.997	0.00	0.00
ATOM	7735	HB3	LEU	X	509	48.535	35.715	22.735	0.00	0.00
ATOM	7736	CG	LEU	X	509	46.502	34.965	22.747	0.00	0.00
ATOM	7737	HG	LEU	X	509	45.855	34.101	22.899	0.00	0.00
ATOM	7738	CD1	LEU	X	509	46.208	36.128	23.702	0.00	0.00
ATOM	7739	HD11	LEU	X	509	46.374	35.767	24.717	0.00	0.00
ATOM	7740	HD12	LEU	X	509	46.830	36.963	23.381	0.00	0.00
ATOM	7741	HD13	LEU	X	509	45.139	36.342	23.709	0.00	0.00
ATOM	7742	CD2	LEU	X	509	46.249	35.372	21.278	0.00	0.00
ATOM	7743	HD21	LEU	X	509	46.805	36.272	21.015	0.00	0.00
ATOM	7744	HD22	LEU	X	509	46.406	34.559	20.569	0.00	0.00
ATOM	7745	HD23	LEU	X	509	45.247	35.791	21.178	0.00	0.00
ATOM	7746	C	LEU	X	509	50.137	33.678	22.075	0.00	0.00
ATOM	7747	O	LEU	X	509	50.794	33.313	23.038	0.00	0.00
ATOM	7748	N	ASP	X	510	50.762	34.154	20.988	0.00	0.00
ATOM	7749	H	ASP	X	510	50.125	34.353	20.230	0.00	0.00
ATOM	7750	CA	ASP	X	510	52.170	34.032	20.505	0.00	0.00
ATOM	7751	HA	ASP	X	510	52.845	34.252	21.332	0.00	0.00
ATOM	7752	CB	ASP	X	510	52.278	32.472	20.237	0.00	0.00
ATOM	7753	HB2	ASP	X	510	51.825	31.873	21.027	0.00	0.00
ATOM	7754	HB3	ASP	X	510	51.941	32.264	19.221	0.00	0.00
ATOM	7755	CG	ASP	X	510	53.721	32.042	20.048	0.00	0.00
ATOM	7756	OD1	ASP	X	510	54.393	31.597	20.978	0.00	0.00
ATOM	7757	OD2	ASP	X	510	54.268	32.232	18.943	0.00	0.00
ATOM	7758	C	ASP	X	510	52.598	34.973	19.435	0.00	0.00
ATOM	7759	O	ASP	X	510	51.734	35.577	18.799	0.00	0.00
ATOM	7760	N	LEU	X	511	53.884	34.976	19.033	0.00	0.00
ATOM	7761	H	LEU	X	511	54.432	34.240	19.454	0.00	0.00
ATOM	7762	CA	LEU	X	511	54.387	35.783	17.913	0.00	0.00
ATOM	7763	HA	LEU	X	511	54.072	36.823	18.005	0.00	0.00
ATOM	7764	CB	LEU	X	511	55.913	35.738	17.806	0.00	0.00
ATOM	7765	HB2	LEU	X	511	56.215	34.851	17.250	0.00	0.00
ATOM	7766	HB3	LEU	X	511	56.298	36.545	17.184	0.00	0.00
ATOM	7767	CG	LEU	X	511	56.771	35.706	19.131	0.00	0.00
ATOM	7768	HG	LEU	X	511	56.356	34.953	19.800	0.00	0.00

ATOM	7769	CD1	LEU	X	511	58.255	35.410	18.868	0.00	0.00
ATOM	7770	HD11	LEU	X	511	58.730	36.344	18.567	0.00	0.00
ATOM	7771	HD12	LEU	X	511	58.754	35.178	19.808	0.00	0.00
ATOM	7772	HD13	LEU	X	511	58.302	34.653	18.085	0.00	0.00
ATOM	7773	CD2	LEU	X	511	56.596	37.095	19.789	0.00	0.00
ATOM	7774	HD21	LEU	X	511	56.557	37.890	19.045	0.00	0.00
ATOM	7775	HD22	LEU	X	511	55.730	37.096	20.450	0.00	0.00
ATOM	7776	HD23	LEU	X	511	57.418	37.326	20.467	0.00	0.00
ATOM	7777	C	LEU	X	511	53.790	35.244	16.569	0.00	0.00
ATOM	7778	O	LEU	X	511	53.588	36.113	15.663	0.00	0.00
ATOM	7779	N	ARG	X	512	53.511	33.894	16.517	0.00	0.00
ATOM	7780	H	ARG	X	512	53.578	33.341	17.360	0.00	0.00
ATOM	7781	CA	ARG	X	512	52.953	33.261	15.400	0.00	0.00
ATOM	7782	HA	ARG	X	512	53.253	33.877	14.552	0.00	0.00
ATOM	7783	CB	ARG	X	512	53.556	31.821	15.388	0.00	0.00
ATOM	7784	HB2	ARG	X	512	53.293	31.311	16.315	0.00	0.00
ATOM	7785	HB3	ARG	X	512	53.148	31.280	14.535	0.00	0.00
ATOM	7786	CG	ARG	X	512	55.132	31.676	15.406	0.00	0.00
ATOM	7787	HG2	ARG	X	512	55.486	32.376	16.162	0.00	0.00
ATOM	7788	HG3	ARG	X	512	55.438	30.689	15.752	0.00	0.00
ATOM	7789	CD	ARG	X	512	55.823	31.891	14.014	0.00	0.00
ATOM	7790	HD2	ARG	X	512	56.852	31.548	14.128	0.00	0.00
ATOM	7791	HD3	ARG	X	512	55.269	31.266	13.314	0.00	0.00
ATOM	7792	NE	ARG	X	512	55.661	33.244	13.591	0.00	0.00
ATOM	7793	HE	ARG	X	512	54.874	33.489	13.007	0.00	0.00
ATOM	7794	CZ	ARG	X	512	56.458	34.293	13.804	0.00	0.00
ATOM	7795	NH1	ARG	X	512	57.646	34.245	14.290	0.00	0.00
ATOM	7796	HH11	ARG	X	512	58.083	33.422	14.680	0.00	0.00
ATOM	7797	HH12	ARG	X	512	58.197	35.089	14.351	0.00	0.00
ATOM	7798	NH2	ARG	X	512	56.052	35.532	13.522	0.00	0.00
ATOM	7799	HH21	ARG	X	512	55.088	35.723	13.290	0.00	0.00
ATOM	7800	HH22	ARG	X	512	56.687	36.312	13.611	0.00	0.00
ATOM	7801	C	ARG	X	512	51.428	33.252	15.306	0.00	0.00
ATOM	7802	O	ARG	X	512	50.846	33.583	16.323	0.00	0.00
ATOM	7803	N	PRO	X	513	50.803	32.961	14.151	0.00	0.00
ATOM	7804	CD	PRO	X	513	51.421	32.547	12.865	0.00	0.00
ATOM	7805	HD2	PRO	X	513	51.355	31.462	12.794	0.00	0.00
ATOM	7806	HD3	PRO	X	513	52.463	32.836	12.721	0.00	0.00
ATOM	7807	CG	PRO	X	513	50.490	33.058	11.762	0.00	0.00
ATOM	7808	HG2	PRO	X	513	50.476	32.469	10.845	0.00	0.00
ATOM	7809	HG3	PRO	X	513	50.612	34.113	11.518	0.00	0.00
ATOM	7810	CB	PRO	X	513	49.112	32.835	12.335	0.00	0.00
ATOM	7811	HB2	PRO	X	513	48.847	31.787	12.192	0.00	0.00
ATOM	7812	HB3	PRO	X	513	48.420	33.560	11.908	0.00	0.00
ATOM	7813	CA	PRO	X	513	49.358	33.135	13.845	0.00	0.00
ATOM	7814	HA	PRO	X	513	49.330	34.216	13.988	0.00	0.00
ATOM	7815	C	PRO	X	513	48.393	32.360	14.767	0.00	0.00
ATOM	7816	O	PRO	X	513	48.890	31.434	15.423	0.00	0.00
ATOM	7817	N	LEU	X	514	47.146	32.709	14.774	0.00	0.00
ATOM	7818	H	LEU	X	514	46.974	33.592	14.315	0.00	0.00
ATOM	7819	CA	LEU	X	514	46.210	32.257	15.840	0.00	0.00
ATOM	7820	HA	LEU	X	514	46.680	32.469	16.800	0.00	0.00
ATOM	7821	CB	LEU	X	514	44.927	33.082	15.789	0.00	0.00
ATOM	7822	HB2	LEU	X	514	45.117	34.156	15.791	0.00	0.00
ATOM	7823	HB3	LEU	X	514	44.433	32.862	14.843	0.00	0.00
ATOM	7824	CG	LEU	X	514	43.933	32.833	16.927	0.00	0.00
ATOM	7825	HG	LEU	X	514	43.846	31.753	17.041	0.00	0.00
ATOM	7826	CD1	LEU	X	514	44.454	33.405	18.244	0.00	0.00
ATOM	7827	HD11	LEU	X	514	44.757	34.436	18.060	0.00	0.00
ATOM	7828	HD12	LEU	X	514	43.633	33.394	18.961	0.00	0.00
ATOM	7829	HD13	LEU	X	514	45.322	32.896	18.664	0.00	0.00
ATOM	7830	CD2	LEU	X	514	42.642	33.552	16.568	0.00	0.00
ATOM	7831	HD21	LEU	X	514	42.664	34.625	16.381	0.00	0.00
ATOM	7832	HD22	LEU	X	514	42.179	33.067	15.709	0.00	0.00
ATOM	7833	HD23	LEU	X	514	42.015	33.556	17.460	0.00	0.00
ATOM	7834	C	LEU	X	514	45.994	30.721	15.907	0.00	0.00
ATOM	7835	O	LEU	X	514	45.765	30.129	14.830	0.00	0.00
ATOM	7836	N	GLU	X	515	46.005	30.105	17.051	0.00	0.00
ATOM	7837	H	GLU	X	515	45.996	30.667	17.890	0.00	0.00
ATOM	7838	CA	GLU	X	515	45.526	28.788	17.175	0.00	0.00

ATOM	7839	HA	GLU	X	515	45.106	28.421	16.238	0.00	0.00
ATOM	7840	CB	GLU	X	515	46.695	27.859	17.619	0.00	0.00
ATOM	7841	HB2	GLU	X	515	47.564	28.001	16.977	0.00	0.00
ATOM	7842	HB3	GLU	X	515	47.084	28.001	18.627	0.00	0.00
ATOM	7843	CG	GLU	X	515	46.360	26.404	17.419	0.00	0.00
ATOM	7844	HG2	GLU	X	515	45.518	26.093	18.038	0.00	0.00
ATOM	7845	HG3	GLU	X	515	46.230	26.205	16.356	0.00	0.00
ATOM	7846	CD	GLU	X	515	47.464	25.517	18.013	0.00	0.00
ATOM	7847	OE1	GLU	X	515	47.255	24.982	19.079	0.00	0.00
ATOM	7848	OE2	GLU	X	515	48.518	25.403	17.311	0.00	0.00
ATOM	7849	C	GLU	X	515	44.384	28.825	18.195	0.00	0.00
ATOM	7850	O	GLU	X	515	44.645	29.145	19.378	0.00	0.00
ATOM	7851	N	VAL	X	516	43.172	28.387	17.765	0.00	0.00
ATOM	7852	H	VAL	X	516	43.103	28.022	16.826	0.00	0.00
ATOM	7853	CA	VAL	X	516	42.058	28.063	18.746	0.00	0.00
ATOM	7854	HA	VAL	X	516	42.185	28.661	19.649	0.00	0.00
ATOM	7855	CB	VAL	X	516	40.629	28.376	18.124	0.00	0.00
ATOM	7856	HB	VAL	X	516	40.347	27.556	17.463	0.00	0.00
ATOM	7857	CG1	VAL	X	516	39.599	28.518	19.229	0.00	0.00
ATOM	7858	HG11	VAL	X	516	39.963	29.275	19.923	0.00	0.00
ATOM	7859	HG12	VAL	X	516	38.679	28.903	18.790	0.00	0.00
ATOM	7860	HG13	VAL	X	516	39.475	27.476	19.523	0.00	0.00
ATOM	7861	CG2	VAL	X	516	40.645	29.609	17.221	0.00	0.00
ATOM	7862	HG21	VAL	X	516	41.332	29.470	16.387	0.00	0.00
ATOM	7863	HG22	VAL	X	516	39.640	29.722	16.815	0.00	0.00
ATOM	7864	HG23	VAL	X	516	41.020	30.475	17.767	0.00	0.00
ATOM	7865	C	VAL	X	516	42.018	26.621	19.254	0.00	0.00
ATOM	7866	O	VAL	X	516	42.478	25.750	18.561	0.00	0.00
ATOM	7867	N	ARG	X	517	41.621	26.350	20.514	0.00	0.00
ATOM	7868	H	ARG	X	517	41.396	27.077	21.178	0.00	0.00
ATOM	7869	CA	ARG	X	517	41.490	24.951	20.986	0.00	0.00
ATOM	7870	HA	ARG	X	517	41.576	24.258	20.148	0.00	0.00
ATOM	7871	CB	ARG	X	517	42.642	24.564	21.951	0.00	0.00
ATOM	7872	HB2	ARG	X	517	42.473	24.992	22.939	0.00	0.00
ATOM	7873	HB3	ARG	X	517	42.614	23.499	22.181	0.00	0.00
ATOM	7874	CG	ARG	X	517	44.015	24.915	21.425	0.00	0.00
ATOM	7875	HG2	ARG	X	517	44.084	24.660	20.368	0.00	0.00
ATOM	7876	HG3	ARG	X	517	44.065	26.002	21.490	0.00	0.00
ATOM	7877	CD	ARG	X	517	45.197	24.220	22.156	0.00	0.00
ATOM	7878	HD2	ARG	X	517	45.250	24.459	23.218	0.00	0.00
ATOM	7879	HD3	ARG	X	517	45.220	23.133	22.093	0.00	0.00
ATOM	7880	NE	ARG	X	517	46.521	24.689	21.630	0.00	0.00
ATOM	7881	HE	ARG	X	517	46.562	24.781	20.624	0.00	0.00
ATOM	7882	CZ	ARG	X	517	47.485	25.309	22.227	0.00	0.00
ATOM	7883	NH1	ARG	X	517	47.688	25.350	23.537	0.00	0.00
ATOM	7884	HH11	ARG	X	517	47.098	25.043	24.298	0.00	0.00
ATOM	7885	HH12	ARG	X	517	48.562	25.778	23.806	0.00	0.00
ATOM	7886	NH2	ARG	X	517	48.448	25.823	21.532	0.00	0.00
ATOM	7887	HH21	ARG	X	517	48.463	25.627	20.541	0.00	0.00
ATOM	7888	HH22	ARG	X	517	49.233	26.141	22.082	0.00	0.00
ATOM	7889	C	ARG	X	517	40.131	24.822	21.755	0.00	0.00
ATOM	7890	O	ARG	X	517	39.482	25.840	22.065	0.00	0.00
ATOM	7891	N	ARG	X	518	39.613	23.600	22.146	0.00	0.00
ATOM	7892	H	ARG	X	518	40.132	22.827	21.756	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.474	23.317	23.121	0.00	0.00
ATOM	7894	HA	ARG	X	518	38.147	24.286	23.501	0.00	0.00
ATOM	7895	CB	ARG	X	518	37.285	22.743	22.460	0.00	0.00
ATOM	7896	HB2	ARG	X	518	37.716	21.837	22.036	0.00	0.00
ATOM	7897	HB3	ARG	X	518	36.480	22.510	23.158	0.00	0.00
ATOM	7898	CG	ARG	X	518	36.830	23.577	21.326	0.00	0.00
ATOM	7899	HG2	ARG	X	518	36.645	24.596	21.665	0.00	0.00
ATOM	7900	HG3	ARG	X	518	37.549	23.461	20.516	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.494	22.984	20.746	0.00	0.00
ATOM	7902	HD2	ARG	X	518	35.718	22.041	20.248	0.00	0.00
ATOM	7903	HD3	ARG	X	518	34.775	22.810	21.547	0.00	0.00
ATOM	7904	NE	ARG	X	518	34.843	23.786	19.777	0.00	0.00
ATOM	7905	HE	ARG	X	518	35.401	24.588	19.524	0.00	0.00
ATOM	7906	CZ	ARG	X	518	33.579	23.779	19.401	0.00	0.00
ATOM	7907	NH1	ARG	X	518	32.779	22.791	19.685	0.00	0.00
ATOM	7908	HH11	ARG	X	518	33.143	22.110	20.336	0.00	0.00

ATOM	7909	HH12	ARG	X	518	31.873	22.868	19.245	0.00	0.00
ATOM	7910	NH2	ARG	X	518	33.082	24.812	18.724	0.00	0.00
ATOM	7911	HH21	ARG	X	518	33.699	25.506	18.327	0.00	0.00
ATOM	7912	HH22	ARG	X	518	32.159	24.550	18.408	0.00	0.00
ATOM	7913	C	ARG	X	518	38.818	22.443	24.339	0.00	0.00
ATOM	7914	O	ARG	X	518	39.853	21.843	24.419	0.00	0.00
ATOM	7915	N	GLY	X	519	37.901	22.415	25.295	0.00	0.00
ATOM	7916	H	GLY	X	519	37.132	23.067	25.228	0.00	0.00
ATOM	7917	CA	GLY	X	519	37.769	21.510	26.475	0.00	0.00
ATOM	7918	HA2	GLY	X	519	36.737	21.586	26.804	0.00	0.00
ATOM	7919	HA3	GLY	X	519	38.064	20.513	26.153	0.00	0.00
ATOM	7920	C	GLY	X	519	38.624	21.881	27.702	0.00	0.00
ATOM	7921	O	GLY	X	519	39.044	21.030	28.488	0.00	0.00
ATOM	7922	N	LEU	X	520	39.137	23.136	27.757	0.00	0.00
ATOM	7923	H	LEU	X	520	38.773	23.695	26.998	0.00	0.00
ATOM	7924	CA	LEU	X	520	40.086	23.679	28.796	0.00	0.00
ATOM	7925	HA	LEU	X	520	41.071	23.544	28.349	0.00	0.00
ATOM	7926	CB	LEU	X	520	39.711	25.230	28.911	0.00	0.00
ATOM	7927	HB2	LEU	X	520	39.709	25.657	27.908	0.00	0.00
ATOM	7928	HB3	LEU	X	520	38.678	25.163	29.251	0.00	0.00
ATOM	7929	CG	LEU	X	520	40.487	26.108	29.923	0.00	0.00
ATOM	7930	HG	LEU	X	520	40.511	25.748	30.951	0.00	0.00
ATOM	7931	CD1	LEU	X	520	41.956	26.282	29.454	0.00	0.00
ATOM	7932	HD11	LEU	X	520	42.100	26.252	28.374	0.00	0.00
ATOM	7933	HD12	LEU	X	520	42.354	27.221	29.839	0.00	0.00
ATOM	7934	HD13	LEU	X	520	42.590	25.517	29.901	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.812	27.487	30.002	0.00	0.00
ATOM	7936	HD21	LEU	X	520	40.364	28.199	30.615	0.00	0.00
ATOM	7937	HD22	LEU	X	520	39.689	27.898	29.000	0.00	0.00
ATOM	7938	HD23	LEU	X	520	38.857	27.305	30.496	0.00	0.00
ATOM	7939	C	LEU	X	520	40.101	23.107	30.236	0.00	0.00
ATOM	7940	O	LEU	X	520	39.332	23.485	31.113	0.00	0.00
ATOM	7941	N	ARG	X	521	40.878	22.039	30.419	0.00	0.00
ATOM	7942	H	ARG	X	521	41.409	21.792	29.596	0.00	0.00
ATOM	7943	CA	ARG	X	521	41.235	21.299	31.673	0.00	0.00
ATOM	7944	HA	ARG	X	521	42.059	20.612	31.479	0.00	0.00
ATOM	7945	CB	ARG	X	521	41.741	22.236	32.772	0.00	0.00
ATOM	7946	HB2	ARG	X	521	42.152	23.039	32.161	0.00	0.00
ATOM	7947	HB3	ARG	X	521	40.824	22.634	33.207	0.00	0.00
ATOM	7948	CG	ARG	X	521	42.743	21.690	33.822	0.00	0.00
ATOM	7949	HG2	ARG	X	521	42.895	22.473	34.564	0.00	0.00
ATOM	7950	HG3	ARG	X	521	42.292	20.843	34.340	0.00	0.00
ATOM	7951	CD	ARG	X	521	44.058	21.322	33.189	0.00	0.00
ATOM	7952	HD2	ARG	X	521	44.058	20.526	32.444	0.00	0.00
ATOM	7953	HD3	ARG	X	521	44.526	22.220	32.786	0.00	0.00
ATOM	7954	NE	ARG	X	521	44.978	20.840	34.303	0.00	0.00
ATOM	7955	HE	ARG	X	521	44.793	21.197	35.229	0.00	0.00
ATOM	7956	CZ	ARG	X	521	46.156	20.270	34.140	0.00	0.00
ATOM	7957	NH1	ARG	X	521	46.552	19.734	33.022	0.00	0.00
ATOM	7958	HH11	ARG	X	521	46.074	19.736	32.132	0.00	0.00
ATOM	7959	HH12	ARG	X	521	47.527	19.471	33.055	0.00	0.00
ATOM	7960	NH2	ARG	X	521	47.004	20.211	35.122	0.00	0.00
ATOM	7961	HH21	ARG	X	521	46.828	20.547	36.058	0.00	0.00
ATOM	7962	HH22	ARG	X	521	47.943	19.925	34.886	0.00	0.00
ATOM	7963	C	ARG	X	521	40.167	20.358	32.238	0.00	0.00
ATOM	7964	O	ARG	X	521	40.250	19.861	33.390	0.00	0.00
ATOM	7965	N	ALA	X	522	39.279	19.868	31.404	0.00	0.00
ATOM	7966	H	ALA	X	522	39.250	20.183	30.445	0.00	0.00
ATOM	7967	CA	ALA	X	522	38.123	19.076	31.798	0.00	0.00
ATOM	7968	HA	ALA	X	522	37.711	19.527	32.701	0.00	0.00
ATOM	7969	CB	ALA	X	522	37.135	19.232	30.591	0.00	0.00
ATOM	7970	HB1	ALA	X	522	37.653	18.765	29.753	0.00	0.00
ATOM	7971	HB2	ALA	X	522	36.113	18.875	30.714	0.00	0.00
ATOM	7972	HB3	ALA	X	522	37.011	20.290	30.359	0.00	0.00
ATOM	7973	C	ALA	X	522	38.474	17.658	32.133	0.00	0.00
ATOM	7974	O	ALA	X	522	37.609	16.741	32.068	0.00	0.00
ATOM	7975	N	GLN	X	523	39.761	17.289	32.428	0.00	0.00
ATOM	7976	H	GLN	X	523	40.492	17.987	32.424	0.00	0.00
ATOM	7977	CA	GLN	X	523	40.120	16.055	33.122	0.00	0.00
ATOM	7978	HA	GLN	X	523	39.233	15.466	33.356	0.00	0.00

ATOM	7979	CB	GLN	X	523	40.988	15.055	32.274	0.00	0.00
ATOM	7980	HB2	GLN	X	523	41.995	15.444	32.129	0.00	0.00
ATOM	7981	HB3	GLN	X	523	41.008	14.137	32.862	0.00	0.00
ATOM	7982	CG	GLN	X	523	40.406	14.688	30.831	0.00	0.00
ATOM	7983	HG2	GLN	X	523	40.332	15.579	30.208	0.00	0.00
ATOM	7984	HG3	GLN	X	523	41.111	14.041	30.308	0.00	0.00
ATOM	7985	CD	GLN	X	523	39.132	13.813	30.818	0.00	0.00
ATOM	7986	OE1	GLN	X	523	38.812	13.069	31.736	0.00	0.00
ATOM	7987	NE2	GLN	X	523	38.411	13.884	29.743	0.00	0.00
ATOM	7988	HE21	GLN	X	523	37.550	13.372	29.871	0.00	0.00
ATOM	7989	HE22	GLN	X	523	38.626	14.464	28.944	0.00	0.00
ATOM	7990	C	GLN	X	523	40.657	16.305	34.523	0.00	0.00
ATOM	7991	O	GLN	X	523	40.118	15.823	35.507	0.00	0.00
ATOM	7992	N	ALA	X	524	41.727	17.154	34.716	0.00	0.00
ATOM	7993	H	ALA	X	524	42.159	17.531	33.884	0.00	0.00
ATOM	7994	CA	ALA	X	524	42.146	17.551	36.042	0.00	0.00
ATOM	7995	HA	ALA	X	524	42.414	16.677	36.636	0.00	0.00
ATOM	7996	CB	ALA	X	524	43.406	18.479	35.883	0.00	0.00
ATOM	7997	HB1	ALA	X	524	43.243	19.182	36.700	0.00	0.00
ATOM	7998	HB2	ALA	X	524	44.369	17.970	35.861	0.00	0.00
ATOM	7999	HB3	ALA	X	524	43.367	18.937	34.894	0.00	0.00
ATOM	8000	C	ALA	X	524	41.009	18.237	36.814	0.00	0.00
ATOM	8001	O	ALA	X	524	40.824	17.833	37.981	0.00	0.00
ATOM	8002	N	CYX	X	525	40.205	19.186	36.254	0.00	0.00
ATOM	8003	H	CYX	X	525	40.387	19.513	35.316	0.00	0.00
ATOM	8004	CA	CYX	X	525	39.228	19.948	37.090	0.00	0.00
ATOM	8005	HA	CYX	X	525	39.761	20.166	38.015	0.00	0.00
ATOM	8006	CB	CYX	X	525	38.756	21.259	36.466	0.00	0.00
ATOM	8007	HB2	CYX	X	525	38.139	21.077	35.586	0.00	0.00
ATOM	8008	HB3	CYX	X	525	38.138	21.759	37.211	0.00	0.00
ATOM	8009	SG	CYX	X	525	40.120	22.393	35.999	0.00	0.00
ATOM	8010	C	CYX	X	525	38.090	18.935	37.407	0.00	0.00
ATOM	8011	O	CYX	X	525	37.388	19.143	38.334	0.00	0.00
ATOM	8012	N	ALA	X	526	37.920	17.845	36.715	0.00	0.00
ATOM	8013	H	ALA	X	526	38.583	17.564	36.007	0.00	0.00
ATOM	8014	CA	ALA	X	526	37.012	16.757	37.036	0.00	0.00
ATOM	8015	HA	ALA	X	526	36.017	17.079	37.343	0.00	0.00
ATOM	8016	CB	ALA	X	526	36.807	15.911	35.749	0.00	0.00
ATOM	8017	HB1	ALA	X	526	36.409	16.575	34.981	0.00	0.00
ATOM	8018	HB2	ALA	X	526	37.712	15.404	35.417	0.00	0.00
ATOM	8019	HB3	ALA	X	526	36.110	15.101	35.967	0.00	0.00
ATOM	8020	C	ALA	X	526	37.535	15.873	38.149	0.00	0.00
ATOM	8021	O	ALA	X	526	36.695	15.412	38.931	0.00	0.00
ATOM	8022	N	PHE	X	527	38.857	15.694	38.278	0.00	0.00
ATOM	8023	H	PHE	X	527	39.490	16.061	37.581	0.00	0.00
ATOM	8024	CA	PHE	X	527	39.535	15.154	39.467	0.00	0.00
ATOM	8025	HA	PHE	X	527	39.035	14.231	39.759	0.00	0.00
ATOM	8026	CB	PHE	X	527	40.993	14.864	39.152	0.00	0.00
ATOM	8027	HB2	PHE	X	527	41.067	13.989	38.506	0.00	0.00
ATOM	8028	HB3	PHE	X	527	41.424	15.672	38.562	0.00	0.00
ATOM	8029	CG	PHE	X	527	41.913	14.625	40.292	0.00	0.00
ATOM	8030	CD1	PHE	X	527	42.183	13.347	40.760	0.00	0.00
ATOM	8031	HD1	PHE	X	527	41.616	12.461	40.517	0.00	0.00
ATOM	8032	CE1	PHE	X	527	43.046	13.136	41.842	0.00	0.00
ATOM	8033	HE1	PHE	X	527	43.395	12.136	42.054	0.00	0.00
ATOM	8034	CZ	PHE	X	527	43.546	14.225	42.536	0.00	0.00
ATOM	8035	HZ	PHE	X	527	44.135	14.008	43.414	0.00	0.00
ATOM	8036	CE2	PHE	X	527	43.275	15.532	42.083	0.00	0.00
ATOM	8037	HE2	PHE	X	527	43.824	16.341	42.541	0.00	0.00
ATOM	8038	CD2	PHE	X	527	42.523	15.774	40.884	0.00	0.00
ATOM	8039	HD2	PHE	X	527	42.478	16.695	40.323	0.00	0.00
ATOM	8040	C	PHE	X	527	39.267	16.044	40.635	0.00	0.00
ATOM	8041	O	PHE	X	527	38.713	15.648	41.648	0.00	0.00
ATOM	8042	N	TRP	X	528	39.354	17.368	40.527	0.00	0.00
ATOM	8043	H	TRP	X	528	39.889	17.670	39.726	0.00	0.00
ATOM	8044	CA	TRP	X	528	39.096	18.278	41.677	0.00	0.00
ATOM	8045	HA	TRP	X	528	39.538	17.814	42.558	0.00	0.00
ATOM	8046	CB	TRP	X	528	39.626	19.674	41.392	0.00	0.00
ATOM	8047	HB2	TRP	X	528	39.110	20.015	40.494	0.00	0.00
ATOM	8048	HB3	TRP	X	528	39.366	20.471	42.088	0.00	0.00

ATOM	8049	CG	TRP	X	528	41.087	19.830	41.020	0.00	0.00
ATOM	8050	CD1	TRP	X	528	41.760	19.961	39.875	0.00	0.00
ATOM	8051	HD1	TRP	X	528	41.340	20.126	38.895	0.00	0.00
ATOM	8052	NE1	TRP	X	528	43.097	19.947	40.054	0.00	0.00
ATOM	8053	HE1	TRP	X	528	43.703	19.921	39.247	0.00	0.00
ATOM	8054	CE2	TRP	X	528	43.377	19.939	41.302	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	44.600	19.901	42.043	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	45.549	19.864	41.529	0.00	0.00
ATOM	8057	CH2	TRP	X	528	44.670	19.819	43.459	0.00	0.00
ATOM	8058	HH2	TRP	X	528	45.593	19.618	43.982	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	43.426	19.898	44.082	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	43.295	19.906	45.154	0.00	0.00
ATOM	8061	CE3	TRP	X	528	42.224	19.864	43.409	0.00	0.00
ATOM	8062	HE3	TRP	X	528	41.337	19.768	44.018	0.00	0.00
ATOM	8063	CD2	TRP	X	528	42.162	19.839	42.008	0.00	0.00
ATOM	8064	C	TRP	X	528	37.565	18.453	41.946	0.00	0.00
ATOM	8065	O	TRP	X	528	37.310	18.715	43.100	0.00	0.00
ATOM	8066	N	ASN	X	529	36.580	18.168	41.063	0.00	0.00
ATOM	8067	H	ASN	X	529	36.780	17.836	40.130	0.00	0.00
ATOM	8068	CA	ASN	X	529	35.149	18.053	41.435	0.00	0.00
ATOM	8069	HA	ASN	X	529	34.863	18.711	42.256	0.00	0.00
ATOM	8070	CB	ASN	X	529	34.323	18.471	40.207	0.00	0.00
ATOM	8071	HB2	ASN	X	529	34.708	19.432	39.866	0.00	0.00
ATOM	8072	HB3	ASN	X	529	34.513	17.759	39.404	0.00	0.00
ATOM	8073	CG	ASN	X	529	32.852	18.586	40.527	0.00	0.00
ATOM	8074	OD1	ASN	X	529	32.110	17.586	40.706	0.00	0.00
ATOM	8075	ND2	ASN	X	529	32.381	19.839	40.576	0.00	0.00
ATOM	8076	HD21	ASN	X	529	31.389	19.912	40.746	0.00	0.00
ATOM	8077	HD22	ASN	X	529	32.951	20.655	40.403	0.00	0.00
ATOM	8078	C	ASN	X	529	34.766	16.679	41.936	0.00	0.00
ATOM	8079	O	ASN	X	529	34.355	16.484	43.096	0.00	0.00
ATOM	8080	N	ARG	X	530	34.940	15.609	41.135	0.00	0.00
ATOM	8081	H	ARG	X	530	35.387	15.736	40.238	0.00	0.00
ATOM	8082	CA	ARG	X	530	34.350	14.280	41.467	0.00	0.00
ATOM	8083	HA	ARG	X	530	33.425	14.332	42.041	0.00	0.00
ATOM	8084	CB	ARG	X	530	33.959	13.665	40.145	0.00	0.00
ATOM	8085	HB2	ARG	X	530	34.888	13.590	39.580	0.00	0.00
ATOM	8086	HB3	ARG	X	530	33.554	12.683	40.391	0.00	0.00
ATOM	8087	CG	ARG	X	530	32.881	14.474	39.358	0.00	0.00
ATOM	8088	HG2	ARG	X	530	32.043	14.317	40.037	0.00	0.00
ATOM	8089	HG3	ARG	X	530	33.079	15.533	39.192	0.00	0.00
ATOM	8090	CD	ARG	X	530	32.670	13.839	37.939	0.00	0.00
ATOM	8091	HD2	ARG	X	530	32.259	14.568	37.241	0.00	0.00
ATOM	8092	HD3	ARG	X	530	33.649	13.716	37.476	0.00	0.00
ATOM	8093	NE	ARG	X	530	31.989	12.532	37.972	0.00	0.00
ATOM	8094	HE	ARG	X	530	31.165	12.471	38.553	0.00	0.00
ATOM	8095	CZ	ARG	X	530	32.364	11.358	37.483	0.00	0.00
ATOM	8096	NH1	ARG	X	530	33.325	11.296	36.575	0.00	0.00
ATOM	8097	HH11	ARG	X	530	33.864	12.111	36.321	0.00	0.00
ATOM	8098	HH12	ARG	X	530	33.830	10.437	36.410	0.00	0.00
ATOM	8099	NH2	ARG	X	530	31.789	10.274	37.805	0.00	0.00
ATOM	8100	HH21	ARG	X	530	30.880	10.271	38.244	0.00	0.00
ATOM	8101	HH22	ARG	X	530	32.195	9.379	37.575	0.00	0.00
ATOM	8102	C	ARG	X	530	35.265	13.273	42.265	0.00	0.00
ATOM	8103	O	ARG	X	530	34.771	12.214	42.664	0.00	0.00
ATOM	8104	N	PHE	X	531	36.534	13.531	42.519	0.00	0.00
ATOM	8105	H	PHE	X	531	36.927	14.397	42.181	0.00	0.00
ATOM	8106	CA	PHE	X	531	37.396	12.599	43.322	0.00	0.00
ATOM	8107	HA	PHE	X	531	36.771	11.785	43.687	0.00	0.00
ATOM	8108	CB	PHE	X	531	38.515	12.015	42.480	0.00	0.00
ATOM	8109	HB2	PHE	X	531	38.110	11.890	41.475	0.00	0.00
ATOM	8110	HB3	PHE	X	531	39.373	12.682	42.402	0.00	0.00
ATOM	8111	CG	PHE	X	531	39.000	10.697	42.902	0.00	0.00
ATOM	8112	CD1	PHE	X	531	38.257	9.604	42.451	0.00	0.00
ATOM	8113	HD1	PHE	X	531	37.390	9.828	41.848	0.00	0.00
ATOM	8114	CE1	PHE	X	531	38.519	8.298	42.845	0.00	0.00
ATOM	8115	HE1	PHE	X	531	37.850	7.503	42.551	0.00	0.00
ATOM	8116	CZ	PHE	X	531	39.636	8.149	43.708	0.00	0.00
ATOM	8117	HZ	PHE	X	531	39.919	7.152	44.014	0.00	0.00
ATOM	8118	CE2	PHE	X	531	40.457	9.240	44.204	0.00	0.00

ATOM	8119	HE2	PHE	X	531	41.318	9.058	44.829	0.00	0.00
ATOM	8120	CD2	PHE	X	531	40.184	10.517	43.669	0.00	0.00
ATOM	8121	HD2	PHE	X	531	40.818	11.337	43.972	0.00	0.00
ATOM	8122	C	PHE	X	531	37.835	13.324	44.591	0.00	0.00
ATOM	8123	O	PHE	X	531	37.491	12.923	45.749	0.00	0.00
ATOM	8124	N	LEU	X	532	38.749	14.241	44.446	0.00	0.00
ATOM	8125	H	LEU	X	532	39.020	14.429	43.491	0.00	0.00
ATOM	8126	CA	LEU	X	532	39.554	14.805	45.510	0.00	0.00
ATOM	8127	HA	LEU	X	532	40.388	14.170	45.808	0.00	0.00
ATOM	8128	CB	LEU	X	532	40.450	15.901	44.787	0.00	0.00
ATOM	8129	HB2	LEU	X	532	40.831	15.464	43.864	0.00	0.00
ATOM	8130	HB3	LEU	X	532	39.822	16.741	44.489	0.00	0.00
ATOM	8131	CG	LEU	X	532	41.755	16.476	45.499	0.00	0.00
ATOM	8132	HG	LEU	X	532	42.375	17.010	44.779	0.00	0.00
ATOM	8133	CD1	LEU	X	532	41.417	17.377	46.662	0.00	0.00
ATOM	8134	HD11	LEU	X	532	40.982	16.723	47.418	0.00	0.00
ATOM	8135	HD12	LEU	X	532	42.285	17.941	47.002	0.00	0.00
ATOM	8136	HD13	LEU	X	532	40.606	18.043	46.367	0.00	0.00
ATOM	8137	CD2	LEU	X	532	42.583	15.342	46.142	0.00	0.00
ATOM	8138	HD21	LEU	X	532	42.108	14.780	46.945	0.00	0.00
ATOM	8139	HD22	LEU	X	532	42.865	14.567	45.429	0.00	0.00
ATOM	8140	HD23	LEU	X	532	43.519	15.743	46.530	0.00	0.00
ATOM	8141	C	LEU	X	532	38.851	15.358	46.792	0.00	0.00
ATOM	8142	O	LEU	X	532	39.214	14.704	47.795	0.00	0.00
ATOM	8143	N	PRO	X	533	37.908	16.284	46.863	0.00	0.00
ATOM	8144	CD	PRO	X	533	37.386	16.955	45.678	0.00	0.00
ATOM	8145	HD2	PRO	X	533	37.054	16.271	44.897	0.00	0.00
ATOM	8146	HD3	PRO	X	533	38.102	17.639	45.222	0.00	0.00
ATOM	8147	CG	PRO	X	533	36.105	17.671	46.233	0.00	0.00
ATOM	8148	HG2	PRO	X	533	35.227	17.030	46.152	0.00	0.00
ATOM	8149	HG3	PRO	X	533	35.895	18.637	45.774	0.00	0.00
ATOM	8150	CB	PRO	X	533	36.426	17.992	47.642	0.00	0.00
ATOM	8151	HB2	PRO	X	533	35.602	18.010	48.356	0.00	0.00
ATOM	8152	HB3	PRO	X	533	37.021	18.881	47.849	0.00	0.00
ATOM	8153	CA	PRO	X	533	37.313	16.780	48.066	0.00	0.00
ATOM	8154	HA	PRO	X	533	38.117	17.154	48.700	0.00	0.00
ATOM	8155	C	PRO	X	533	36.514	15.701	48.816	0.00	0.00
ATOM	8156	O	PRO	X	533	36.441	15.797	50.056	0.00	0.00
ATOM	8157	N	LYS	X	534	35.999	14.743	48.045	0.00	0.00
ATOM	8158	H	LYS	X	534	36.185	14.729	47.052	0.00	0.00
ATOM	8159	CA	LYS	X	534	35.271	13.638	48.586	0.00	0.00
ATOM	8160	HA	LYS	X	534	34.508	14.022	49.263	0.00	0.00
ATOM	8161	CB	LYS	X	534	34.578	12.852	47.438	0.00	0.00
ATOM	8162	HB2	LYS	X	534	34.011	13.593	46.875	0.00	0.00
ATOM	8163	HB3	LYS	X	534	35.306	12.395	46.768	0.00	0.00
ATOM	8164	CG	LYS	X	534	33.683	11.704	47.982	0.00	0.00
ATOM	8165	HG2	LYS	X	534	34.055	10.919	48.640	0.00	0.00
ATOM	8166	HG3	LYS	X	534	32.844	12.198	48.472	0.00	0.00
ATOM	8167	CD	LYS	X	534	33.236	10.731	46.842	0.00	0.00
ATOM	8168	HD2	LYS	X	534	32.721	9.947	47.398	0.00	0.00
ATOM	8169	HD3	LYS	X	534	32.559	11.296	46.202	0.00	0.00
ATOM	8170	CE	LYS	X	534	34.277	9.941	46.050	0.00	0.00
ATOM	8171	HE2	LYS	X	534	34.484	10.610	45.215	0.00	0.00
ATOM	8172	HE3	LYS	X	534	35.149	9.787	46.687	0.00	0.00
ATOM	8173	NZ	LYS	X	534	33.740	8.715	45.449	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	34.436	8.263	44.874	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	33.566	8.114	46.242	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	32.915	8.896	44.895	0.00	0.00
ATOM	8177	C	LYS	X	534	36.101	12.727	49.480	0.00	0.00
ATOM	8178	O	LYS	X	534	35.554	12.062	50.362	0.00	0.00
ATOM	8179	N	LEU	X	535	37.429	12.798	49.290	0.00	0.00
ATOM	8180	H	LEU	X	535	37.696	13.288	48.449	0.00	0.00
ATOM	8181	CA	LEU	X	535	38.455	12.160	50.092	0.00	0.00
ATOM	8182	HA	LEU	X	535	37.932	11.292	50.494	0.00	0.00
ATOM	8183	CB	LEU	X	535	39.694	11.707	49.357	0.00	0.00
ATOM	8184	HB2	LEU	X	535	40.336	12.553	49.114	0.00	0.00
ATOM	8185	HB3	LEU	X	535	40.329	11.235	50.106	0.00	0.00
ATOM	8186	CG	LEU	X	535	39.543	10.928	47.993	0.00	0.00
ATOM	8187	HG	LEU	X	535	39.135	11.504	47.162	0.00	0.00
ATOM	8188	CD1	LEU	X	535	41.001	10.626	47.594	0.00	0.00

ATOM	8189	HD11	LEU	X	535	41.512	9.934	48.262	0.00	0.00
ATOM	8190	HD12	LEU	X	535	40.985	10.296	46.555	0.00	0.00
ATOM	8191	HD13	LEU	X	535	41.579	11.550	47.598	0.00	0.00
ATOM	8192	CD2	LEU	X	535	38.745	9.578	47.953	0.00	0.00
ATOM	8193	HD21	LEU	X	535	39.399	8.809	47.541	0.00	0.00
ATOM	8194	HD22	LEU	X	535	38.517	9.321	48.987	0.00	0.00
ATOM	8195	HD23	LEU	X	535	37.814	9.785	47.424	0.00	0.00
ATOM	8196	C	LEU	X	535	38.843	12.985	51.282	0.00	0.00
ATOM	8197	O	LEU	X	535	39.106	12.368	52.342	0.00	0.00
ATOM	8198	N	LEU	X	536	38.854	14.321	51.121	0.00	0.00
ATOM	8199	H	LEU	X	536	38.467	14.658	50.251	0.00	0.00
ATOM	8200	CA	LEU	X	536	39.125	15.363	52.197	0.00	0.00
ATOM	8201	HA	LEU	X	536	40.073	15.114	52.673	0.00	0.00
ATOM	8202	CB	LEU	X	536	39.188	16.811	51.671	0.00	0.00
ATOM	8203	HB2	LEU	X	536	38.233	17.087	51.223	0.00	0.00
ATOM	8204	HB3	LEU	X	536	39.390	17.549	52.448	0.00	0.00
ATOM	8205	CG	LEU	X	536	40.288	17.022	50.547	0.00	0.00
ATOM	8206	HG	LEU	X	536	39.996	16.382	49.715	0.00	0.00
ATOM	8207	CD1	LEU	X	536	40.349	18.472	50.088	0.00	0.00
ATOM	8208	HD11	LEU	X	536	41.281	18.546	49.527	0.00	0.00
ATOM	8209	HD12	LEU	X	536	39.446	18.881	49.635	0.00	0.00
ATOM	8210	HD13	LEU	X	536	40.500	19.088	50.974	0.00	0.00
ATOM	8211	CD2	LEU	X	536	41.660	16.554	51.106	0.00	0.00
ATOM	8212	HD21	LEU	X	536	41.591	15.469	51.181	0.00	0.00
ATOM	8213	HD22	LEU	X	536	42.496	16.909	50.503	0.00	0.00
ATOM	8214	HD23	LEU	X	536	41.784	16.906	52.130	0.00	0.00
ATOM	8215	C	LEU	X	536	37.977	15.254	53.236	0.00	0.00
ATOM	8216	O	LEU	X	536	38.259	15.597	54.377	0.00	0.00
ATOM	8217	N	SER	X	537	36.713	14.992	52.827	0.00	0.00
ATOM	8218	H	SER	X	537	36.505	14.763	51.865	0.00	0.00
ATOM	8219	CA	SER	X	537	35.657	14.970	53.748	0.00	0.00
ATOM	8220	HA	SER	X	537	35.679	15.713	54.545	0.00	0.00
ATOM	8221	CB	SER	X	537	34.316	15.183	52.984	0.00	0.00
ATOM	8222	HB2	SER	X	537	33.458	15.097	53.651	0.00	0.00
ATOM	8223	HB3	SER	X	537	34.226	16.139	52.468	0.00	0.00
ATOM	8224	OG	SER	X	537	34.252	14.282	51.894	0.00	0.00
ATOM	8225	HG	SER	X	537	33.533	14.458	51.283	0.00	0.00
ATOM	8226	C	SER	X	537	35.453	13.651	54.552	0.00	0.00
ATOM	8227	O	SER	X	537	34.581	13.621	55.410	0.00	0.00
ATOM	8228	N	ALA	X	538	36.371	12.673	54.230	0.00	0.00
ATOM	8229	H	ALA	X	538	37.080	12.813	53.524	0.00	0.00
ATOM	8230	CA	ALA	X	538	36.453	11.421	55.074	0.00	0.00
ATOM	8231	HA	ALA	X	538	35.754	11.484	55.908	0.00	0.00
ATOM	8232	CB	ALA	X	538	35.979	10.252	54.208	0.00	0.00
ATOM	8233	HB1	ALA	X	538	35.465	9.477	54.777	0.00	0.00
ATOM	8234	HB2	ALA	X	538	35.317	10.663	53.446	0.00	0.00
ATOM	8235	HB3	ALA	X	538	36.799	9.869	53.601	0.00	0.00
ATOM	8236	C	ALA	X	538	37.814	11.260	55.840	0.00	0.00
ATOM	8237	O	ALA	X	538	37.813	10.971	57.064	0.00	0.00
ATOM	8238	N	THR	X	539	38.910	11.460	55.124	0.00	0.00
ATOM	8239	H	THR	X	539	38.924	11.894	54.212	0.00	0.00
ATOM	8240	CA	THR	X	539	40.235	10.957	55.587	0.00	0.00
ATOM	8241	HA	THR	X	539	40.094	10.013	56.114	0.00	0.00
ATOM	8242	CB	THR	X	539	41.290	10.696	54.489	0.00	0.00
ATOM	8243	HB	THR	X	539	42.297	10.506	54.861	0.00	0.00
ATOM	8244	CG2	THR	X	539	40.928	9.465	53.711	0.00	0.00
ATOM	8245	HG21	THR	X	539	41.774	9.042	53.170	0.00	0.00
ATOM	8246	HG22	THR	X	539	40.559	8.769	54.464	0.00	0.00
ATOM	8247	HG23	THR	X	539	40.117	9.705	53.023	0.00	0.00
ATOM	8248	OG1	THR	X	539	41.366	11.643	53.513	0.00	0.00
ATOM	8249	HG1	THR	X	539	40.459	11.809	53.245	0.00	0.00
ATOM	8250	C	THR	X	539	41.012	11.775	56.665	0.00	0.00
ATOM	8251	O	THR	X	539	41.804	11.154	57.460	0.00	0.00
ATOM	8252	OXT	THR	X	539	40.900	13.047	56.731	0.00	0.00
ATOM	8253	C	LIG	X	540	55.508	33.569	51.459	0.00	0.00
ATOM	8254	C1	LIG	X	540	54.417	32.972	50.730	0.00	0.00
ATOM	8255	C2	LIG	X	540	53.764	33.641	49.634	0.00	0.00
ATOM	8256	C3	LIG	X	540	54.239	34.963	49.413	0.00	0.00
ATOM	8257	C4	LIG	X	540	55.311	35.507	50.106	0.00	0.00
ATOM	8258	C5	LIG	X	540	55.959	34.824	51.131	0.00	0.00

ATOM	8259	C6	LIG	X	540	57.187	35.422	51.822	0.00	0.00
ATOM	8260	N	LIG	X	540	56.860	36.139	53.127	0.00	0.00
ATOM	8261	C7	LIG	X	540	58.071	36.475	53.864	0.00	0.00
ATOM	8262	C8	LIG	X	540	55.956	37.310	52.806	0.00	0.00
ATOM	8263	O	LIG	X	540	53.645	35.708	48.429	0.00	0.00
ATOM	8264	C9	LIG	X	540	54.374	36.000	47.172	0.00	0.00
ATOM	8265	O1	LIG	X	540	52.801	33.023	48.912	0.00	0.00
ATOM	8266	H	LIG	X	540	52.995	32.073	48.821	0.00	0.00
ATOM	8267	H1	LIG	X	540	55.991	32.977	52.232	0.00	0.00
ATOM	8268	H2	LIG	X	540	54.064	31.978	50.991	0.00	0.00
ATOM	8269	H3	LIG	X	540	55.622	36.504	49.807	0.00	0.00
ATOM	8270	H4	LIG	X	540	57.941	34.669	52.065	0.00	0.00
ATOM	8271	H5	LIG	X	540	57.617	36.197	51.183	0.00	0.00
ATOM	8272	H6	LIG	X	540	56.379	38.156	52.260	0.00	0.00
ATOM	8273	H7	LIG	X	540	55.006	36.936	52.414	0.00	0.00
ATOM	8274	H8	LIG	X	540	55.690	37.784	53.754	0.00	0.00
ATOM	8275	H9	LIG	X	540	57.919	37.293	54.572	0.00	0.00
ATOM	8276	H10	LIG	X	540	58.585	35.601	54.272	0.00	0.00
ATOM	8277	H11	LIG	X	540	58.808	36.863	53.156	0.00	0.00
ATOM	8278	H12	LIG	X	540	55.100	36.716	47.566	0.00	0.00
ATOM	8279	H13	LIG	X	540	53.855	36.462	46.329	0.00	0.00
ATOM	8280	H14	LIG	X	540	54.961	35.145	46.827	0.00	0.00
ATOM	8281	Na+	Na+	X	541	51.919	40.022	37.533	0.00	0.00
ATOM	8282	Na+	Na+	X	542	45.364	17.213	56.124	0.00	0.00
ATOM	8283	Na+	Na+	X	543	70.422	25.643	49.553	0.00	0.00
ATOM	8284	Na+	Na+	X	544	69.969	11.248	66.356	0.00	0.00
ATOM	8285	Na+	Na+	X	545	58.572	17.076	76.169	0.00	0.00
ATOM	8286	Na+	Na+	X	546	46.164	73.005	62.492	0.00	0.00
ATOM	8287	Na+	Na+	X	547	19.168	32.240	55.488	0.00	0.00

END

2

CRYST1	84.300	84.300	84.300	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	52.377	78.430	27.342	0.00	0.00
ATOM	2	H1	ASP	X	1	51.575	77.817	27.388	0.00	0.00
ATOM	3	H2	ASP	X	1	53.013	77.981	26.698	0.00	0.00
ATOM	4	H3	ASP	X	1	52.127	79.296	26.887	0.00	0.00
ATOM	5	CA	ASP	X	1	53.032	78.458	28.680	0.00	0.00
ATOM	6	HA	ASP	X	1	53.512	77.524	28.971	0.00	0.00
ATOM	7	CB	ASP	X	1	54.206	79.454	28.589	0.00	0.00
ATOM	8	HB2	ASP	X	1	54.853	79.143	27.769	0.00	0.00
ATOM	9	HB3	ASP	X	1	53.856	80.447	28.308	0.00	0.00
ATOM	10	CG	ASP	X	1	54.999	79.451	29.876	0.00	0.00
ATOM	11	OD1	ASP	X	1	54.832	80.456	30.616	0.00	0.00
ATOM	12	OD2	ASP	X	1	55.638	78.454	30.105	0.00	0.00
ATOM	13	C	ASP	X	1	52.005	78.916	29.733	0.00	0.00
ATOM	14	O	ASP	X	1	51.863	78.200	30.676	0.00	0.00
ATOM	15	N	ALA	X	2	51.219	79.975	29.573	0.00	0.00
ATOM	16	H	ALA	X	2	51.433	80.523	28.752	0.00	0.00
ATOM	17	CA	ALA	X	2	50.181	80.494	30.468	0.00	0.00
ATOM	18	HA	ALA	X	2	50.591	81.050	31.310	0.00	0.00
ATOM	19	CB	ALA	X	2	49.245	81.454	29.747	0.00	0.00
ATOM	20	HB1	ALA	X	2	49.803	82.324	29.403	0.00	0.00
ATOM	21	HB2	ALA	X	2	48.679	81.034	28.916	0.00	0.00
ATOM	22	HB3	ALA	X	2	48.641	81.933	30.519	0.00	0.00
ATOM	23	C	ALA	X	2	49.403	79.371	31.247	0.00	0.00
ATOM	24	O	ALA	X	2	49.181	79.580	32.442	0.00	0.00
ATOM	25	N	GLU	X	3	48.905	78.390	30.470	0.00	0.00
ATOM	26	H	GLU	X	3	49.228	78.383	29.513	0.00	0.00
ATOM	27	CA	GLU	X	3	48.098	77.211	30.932	0.00	0.00
ATOM	28	HA	GLU	X	3	47.372	77.684	31.593	0.00	0.00
ATOM	29	CB	GLU	X	3	47.224	76.775	29.721	0.00	0.00
ATOM	30	HB2	GLU	X	3	47.858	76.358	28.939	0.00	0.00
ATOM	31	HB3	GLU	X	3	46.652	75.964	30.172	0.00	0.00
ATOM	32	CG	GLU	X	3	46.362	77.871	29.178	0.00	0.00
ATOM	33	HG2	GLU	X	3	45.750	78.108	30.049	0.00	0.00
ATOM	34	HG3	GLU	X	3	46.916	78.768	28.905	0.00	0.00
ATOM	35	CD	GLU	X	3	45.620	77.350	28.010	0.00	0.00
ATOM	36	OE1	GLU	X	3	44.383	77.290	28.119	0.00	0.00
ATOM	37	OE2	GLU	X	3	46.182	77.056	26.935	0.00	0.00
ATOM	38	C	GLU	X	3	48.858	76.077	31.637	0.00	0.00

ATOM	39	O	GLU	X	3	48.217	75.160	32.153	0.00	0.00
ATOM	40	N	LEU	X	4	50.141	76.251	31.798	0.00	0.00
ATOM	41	H	LEU	X	4	50.563	76.962	31.218	0.00	0.00
ATOM	42	CA	LEU	X	4	50.943	75.420	32.739	0.00	0.00
ATOM	43	HA	LEU	X	4	50.550	74.410	32.623	0.00	0.00
ATOM	44	CB	LEU	X	4	52.466	75.444	32.447	0.00	0.00
ATOM	45	HB2	LEU	X	4	52.868	76.457	32.498	0.00	0.00
ATOM	46	HB3	LEU	X	4	52.990	74.912	33.241	0.00	0.00
ATOM	47	CG	LEU	X	4	52.820	74.999	31.074	0.00	0.00
ATOM	48	HG	LEU	X	4	52.237	75.521	30.316	0.00	0.00
ATOM	49	CD1	LEU	X	4	54.294	75.168	30.749	0.00	0.00
ATOM	50	HD11	LEU	X	4	54.546	74.663	29.816	0.00	0.00
ATOM	51	HD12	LEU	X	4	54.403	76.245	30.619	0.00	0.00
ATOM	52	HD13	LEU	X	4	54.875	74.857	31.617	0.00	0.00
ATOM	53	CD2	LEU	X	4	52.552	73.445	30.984	0.00	0.00
ATOM	54	HD21	LEU	X	4	51.525	73.311	30.643	0.00	0.00
ATOM	55	HD22	LEU	X	4	53.253	72.949	30.313	0.00	0.00
ATOM	56	HD23	LEU	X	4	52.545	72.930	31.945	0.00	0.00
ATOM	57	C	LEU	X	4	50.660	75.675	34.211	0.00	0.00
ATOM	58	O	LEU	X	4	51.107	74.924	35.049	0.00	0.00
ATOM	59	N	LEU	X	5	49.917	76.751	34.505	0.00	0.00
ATOM	60	H	LEU	X	5	49.594	77.353	33.762	0.00	0.00
ATOM	61	CA	LEU	X	5	49.309	77.136	35.773	0.00	0.00
ATOM	62	HA	LEU	X	5	49.772	76.628	36.619	0.00	0.00
ATOM	63	CB	LEU	X	5	49.464	78.706	35.976	0.00	0.00
ATOM	64	HB2	LEU	X	5	50.517	78.950	35.835	0.00	0.00
ATOM	65	HB3	LEU	X	5	48.883	79.213	35.205	0.00	0.00
ATOM	66	CG	LEU	X	5	49.076	79.293	37.378	0.00	0.00
ATOM	67	HG	LEU	X	5	49.308	80.339	37.180	0.00	0.00
ATOM	68	CD1	LEU	X	5	47.568	79.126	37.788	0.00	0.00
ATOM	69	HD11	LEU	X	5	47.426	79.775	38.652	0.00	0.00
ATOM	70	HD12	LEU	X	5	46.987	79.454	36.926	0.00	0.00
ATOM	71	HD13	LEU	X	5	47.278	78.186	38.257	0.00	0.00
ATOM	72	CD2	LEU	X	5	49.937	79.007	38.564	0.00	0.00
ATOM	73	HD21	LEU	X	5	50.118	77.947	38.746	0.00	0.00
ATOM	74	HD22	LEU	X	5	50.971	79.288	38.364	0.00	0.00
ATOM	75	HD23	LEU	X	5	49.596	79.646	39.378	0.00	0.00
ATOM	76	C	LEU	X	5	47.845	76.623	35.827	0.00	0.00
ATOM	77	O	LEU	X	5	47.089	76.955	34.916	0.00	0.00
ATOM	78	N	VAL	X	6	47.391	75.794	36.774	0.00	0.00
ATOM	79	H	VAL	X	6	48.040	75.616	37.527	0.00	0.00
ATOM	80	CA	VAL	X	6	45.997	75.375	36.916	0.00	0.00
ATOM	81	HA	VAL	X	6	45.485	75.865	36.088	0.00	0.00
ATOM	82	CB	VAL	X	6	45.860	73.835	36.752	0.00	0.00
ATOM	83	HB	VAL	X	6	46.433	73.696	35.835	0.00	0.00
ATOM	84	CG1	VAL	X	6	46.554	73.004	37.811	0.00	0.00
ATOM	85	HG11	VAL	X	6	47.506	73.494	38.018	0.00	0.00
ATOM	86	HG12	VAL	X	6	46.072	72.948	38.787	0.00	0.00
ATOM	87	HG13	VAL	X	6	46.727	72.099	37.228	0.00	0.00
ATOM	88	CG2	VAL	X	6	44.355	73.467	36.636	0.00	0.00
ATOM	89	HG21	VAL	X	6	44.433	72.633	35.939	0.00	0.00
ATOM	90	HG22	VAL	X	6	43.893	73.123	37.562	0.00	0.00
ATOM	91	HG23	VAL	X	6	43.727	74.246	36.204	0.00	0.00
ATOM	92	C	VAL	X	6	45.329	75.760	38.201	0.00	0.00
ATOM	93	O	VAL	X	6	46.017	76.009	39.173	0.00	0.00
ATOM	94	N	THR	X	7	43.994	75.849	38.200	0.00	0.00
ATOM	95	H	THR	X	7	43.574	75.832	37.282	0.00	0.00
ATOM	96	CA	THR	X	7	43.159	76.034	39.430	0.00	0.00
ATOM	97	HA	THR	X	7	43.775	76.315	40.284	0.00	0.00
ATOM	98	CB	THR	X	7	42.273	77.192	39.214	0.00	0.00
ATOM	99	HB	THR	X	7	41.396	76.952	38.613	0.00	0.00
ATOM	100	CG2	THR	X	7	41.753	77.680	40.507	0.00	0.00
ATOM	101	HG21	THR	X	7	41.504	78.737	40.415	0.00	0.00
ATOM	102	HG22	THR	X	7	40.883	77.059	40.720	0.00	0.00
ATOM	103	HG23	THR	X	7	42.454	77.640	41.341	0.00	0.00
ATOM	104	OG1	THR	X	7	42.806	78.247	38.397	0.00	0.00
ATOM	105	HG1	THR	X	7	43.084	77.901	37.545	0.00	0.00
ATOM	106	C	THR	X	7	42.407	74.691	39.771	0.00	0.00
ATOM	107	O	THR	X	7	41.873	74.074	38.827	0.00	0.00
ATOM	108	N	VAL	X	8	42.414	74.257	41.025	0.00	0.00

ATOM	109	H	VAL	X	8	42.972	74.773	41.690	0.00	0.00
ATOM	110	CA	VAL	X	8	41.817	73.040	41.763	0.00	0.00
ATOM	111	HA	VAL	X	8	41.132	72.647	41.012	0.00	0.00
ATOM	112	CB	VAL	X	8	42.976	71.995	41.982	0.00	0.00
ATOM	113	HB	VAL	X	8	42.600	71.103	42.484	0.00	0.00
ATOM	114	CG1	VAL	X	8	43.559	71.480	40.661	0.00	0.00
ATOM	115	HG11	VAL	X	8	44.289	70.709	40.907	0.00	0.00
ATOM	116	HG12	VAL	X	8	42.847	71.187	39.889	0.00	0.00
ATOM	117	HG13	VAL	X	8	44.169	72.255	40.197	0.00	0.00
ATOM	118	CG2	VAL	X	8	44.133	72.534	42.872	0.00	0.00
ATOM	119	HG21	VAL	X	8	44.796	73.132	42.247	0.00	0.00
ATOM	120	HG22	VAL	X	8	43.827	73.173	43.701	0.00	0.00
ATOM	121	HG23	VAL	X	8	44.694	71.771	43.411	0.00	0.00
ATOM	122	C	VAL	X	8	41.067	73.493	42.969	0.00	0.00
ATOM	123	O	VAL	X	8	41.077	74.723	43.297	0.00	0.00
ATOM	124	N	ARG	X	9	40.448	72.586	43.777	0.00	0.00
ATOM	125	H	ARG	X	9	40.691	71.641	43.515	0.00	0.00
ATOM	126	CA	ARG	X	9	39.603	72.965	44.955	0.00	0.00
ATOM	127	HA	ARG	X	9	38.955	73.806	44.707	0.00	0.00
ATOM	128	CB	ARG	X	9	38.801	71.840	45.456	0.00	0.00
ATOM	129	HB2	ARG	X	9	38.104	71.476	44.701	0.00	0.00
ATOM	130	HB3	ARG	X	9	39.430	70.957	45.568	0.00	0.00
ATOM	131	CG	ARG	X	9	37.880	71.955	46.740	0.00	0.00
ATOM	132	HG2	ARG	X	9	37.389	71.004	46.942	0.00	0.00
ATOM	133	HG3	ARG	X	9	38.452	72.359	47.576	0.00	0.00
ATOM	134	CD	ARG	X	9	36.726	72.949	46.531	0.00	0.00
ATOM	135	HD2	ARG	X	9	36.459	73.305	47.526	0.00	0.00
ATOM	136	HD3	ARG	X	9	36.941	73.903	46.049	0.00	0.00
ATOM	137	NE	ARG	X	9	35.593	72.212	45.851	0.00	0.00
ATOM	138	HE	ARG	X	9	35.808	71.236	45.704	0.00	0.00
ATOM	139	CZ	ARG	X	9	34.607	72.745	45.123	0.00	0.00
ATOM	140	NH1	ARG	X	9	34.282	74.026	45.201	0.00	0.00
ATOM	141	HH11	ARG	X	9	34.840	74.701	45.705	0.00	0.00
ATOM	142	HH12	ARG	X	9	33.468	74.266	44.653	0.00	0.00
ATOM	143	NH2	ARG	X	9	33.923	71.983	44.357	0.00	0.00
ATOM	144	HH21	ARG	X	9	34.258	71.036	44.259	0.00	0.00
ATOM	145	HH22	ARG	X	9	33.156	72.359	43.817	0.00	0.00
ATOM	146	C	ARG	X	9	40.375	73.505	46.115	0.00	0.00
ATOM	147	O	ARG	X	9	39.840	74.448	46.788	0.00	0.00
ATOM	148	N	GLY	X	10	41.668	73.179	46.189	0.00	0.00
ATOM	149	H	GLY	X	10	42.016	72.408	45.637	0.00	0.00
ATOM	150	CA	GLY	X	10	42.561	73.696	47.203	0.00	0.00
ATOM	151	HA2	GLY	X	10	42.041	73.874	48.040	0.00	0.00
ATOM	152	HA3	GLY	X	10	43.401	73.037	47.388	0.00	0.00
ATOM	153	C	GLY	X	10	43.218	75.070	46.968	0.00	0.00
ATOM	154	O	GLY	X	10	43.687	75.731	47.900	0.00	0.00
ATOM	155	N	GLY	X	11	43.268	75.439	45.688	0.00	0.00
ATOM	156	H	GLY	X	11	42.978	74.790	44.971	0.00	0.00
ATOM	157	CA	GLY	X	11	43.880	76.699	45.227	0.00	0.00
ATOM	158	HA2	GLY	X	11	43.058	77.357	45.118	0.00	0.00
ATOM	159	HA3	GLY	X	11	44.588	77.082	45.926	0.00	0.00
ATOM	160	C	GLY	X	11	44.510	76.499	43.825	0.00	0.00
ATOM	161	O	GLY	X	11	43.926	75.885	42.955	0.00	0.00
ATOM	162	N	ARG	X	12	45.666	77.165	43.587	0.00	0.00
ATOM	163	H	ARG	X	12	45.967	77.812	44.302	0.00	0.00
ATOM	164	CA	ARG	X	12	46.313	77.173	42.280	0.00	0.00
ATOM	165	HA	ARG	X	12	45.679	76.747	41.502	0.00	0.00
ATOM	166	CB	ARG	X	12	46.501	78.629	41.970	0.00	0.00
ATOM	167	HB2	ARG	X	12	46.845	79.141	42.868	0.00	0.00
ATOM	168	HB3	ARG	X	12	47.282	78.707	41.214	0.00	0.00
ATOM	169	CG	ARG	X	12	45.189	79.290	41.409	0.00	0.00
ATOM	170	HG2	ARG	X	12	44.907	78.743	40.509	0.00	0.00
ATOM	171	HG3	ARG	X	12	44.492	79.094	42.224	0.00	0.00
ATOM	172	CD	ARG	X	12	45.322	80.830	41.115	0.00	0.00
ATOM	173	HD2	ARG	X	12	46.291	80.956	40.632	0.00	0.00
ATOM	174	HD3	ARG	X	12	44.478	81.151	40.506	0.00	0.00
ATOM	175	NE	ARG	X	12	45.072	81.634	42.385	0.00	0.00
ATOM	176	HE	ARG	X	12	44.538	81.284	43.168	0.00	0.00
ATOM	177	CZ	ARG	X	12	45.569	82.790	42.607	0.00	0.00
ATOM	178	NH1	ARG	X	12	46.311	83.404	41.715	0.00	0.00

ATOM	179	HH11	ARG	X	12	46.547	82.948	40.845	0.00	0.00
ATOM	180	HH12	ARG	X	12	46.614	84.340	41.942	0.00	0.00
ATOM	181	NH2	ARG	X	12	45.504	83.485	43.725	0.00	0.00
ATOM	182	HH21	ARG	X	12	44.925	83.130	44.473	0.00	0.00
ATOM	183	HH22	ARG	X	12	46.058	84.316	43.874	0.00	0.00
ATOM	184	C	ARG	X	12	47.648	76.428	42.280	0.00	0.00
ATOM	185	O	ARG	X	12	48.264	76.522	43.343	0.00	0.00
ATOM	186	N	LEU	X	13	48.065	75.764	41.199	0.00	0.00
ATOM	187	H	LEU	X	13	47.453	75.915	40.410	0.00	0.00
ATOM	188	CA	LEU	X	13	49.226	74.865	41.030	0.00	0.00
ATOM	189	HA	LEU	X	13	49.936	75.096	41.824	0.00	0.00
ATOM	190	CB	LEU	X	13	48.794	73.376	41.119	0.00	0.00
ATOM	191	HB2	LEU	X	13	48.021	73.119	40.395	0.00	0.00
ATOM	192	HB3	LEU	X	13	49.702	72.813	40.902	0.00	0.00
ATOM	193	CG	LEU	X	13	48.174	72.885	42.441	0.00	0.00
ATOM	194	HG	LEU	X	13	47.360	73.595	42.585	0.00	0.00
ATOM	195	CD1	LEU	X	13	47.646	71.453	42.332	0.00	0.00
ATOM	196	HD11	LEU	X	13	46.872	71.362	41.570	0.00	0.00
ATOM	197	HD12	LEU	X	13	48.486	70.771	42.198	0.00	0.00
ATOM	198	HD13	LEU	X	13	47.077	71.372	43.258	0.00	0.00
ATOM	199	CD2	LEU	X	13	49.105	72.808	43.733	0.00	0.00
ATOM	200	HD21	LEU	X	13	50.031	72.287	43.489	0.00	0.00
ATOM	201	HD22	LEU	X	13	49.358	73.839	43.982	0.00	0.00
ATOM	202	HD23	LEU	X	13	48.566	72.289	44.526	0.00	0.00
ATOM	203	C	LEU	X	13	49.945	75.107	39.733	0.00	0.00
ATOM	204	O	LEU	X	13	49.250	75.472	38.770	0.00	0.00
ATOM	205	N	ARG	X	14	51.281	75.155	39.665	0.00	0.00
ATOM	206	H	ARG	X	14	51.749	75.068	40.555	0.00	0.00
ATOM	207	CA	ARG	X	14	52.152	75.226	38.474	0.00	0.00
ATOM	208	HA	ARG	X	14	51.664	75.432	37.521	0.00	0.00
ATOM	209	CB	ARG	X	14	53.036	76.390	38.769	0.00	0.00
ATOM	210	HB2	ARG	X	14	52.471	77.321	38.726	0.00	0.00
ATOM	211	HB3	ARG	X	14	53.343	76.239	39.804	0.00	0.00
ATOM	212	CG	ARG	X	14	54.263	76.509	37.899	0.00	0.00
ATOM	213	HG2	ARG	X	14	54.916	75.722	38.275	0.00	0.00
ATOM	214	HG3	ARG	X	14	53.953	76.374	36.863	0.00	0.00
ATOM	215	CD	ARG	X	14	55.015	77.854	37.976	0.00	0.00
ATOM	216	HD2	ARG	X	14	55.124	78.082	39.036	0.00	0.00
ATOM	217	HD3	ARG	X	14	55.980	77.772	37.476	0.00	0.00
ATOM	218	NE	ARG	X	14	54.356	78.980	37.370	0.00	0.00
ATOM	219	HE	ARG	X	14	53.860	79.629	37.964	0.00	0.00
ATOM	220	CZ	ARG	X	14	54.189	79.253	36.099	0.00	0.00
ATOM	221	NH1	ARG	X	14	54.715	78.498	35.094	0.00	0.00
ATOM	222	HH11	ARG	X	14	55.342	77.719	35.240	0.00	0.00
ATOM	223	HH12	ARG	X	14	54.375	78.679	34.160	0.00	0.00
ATOM	224	NH2	ARG	X	14	53.257	80.128	35.763	0.00	0.00
ATOM	225	HH21	ARG	X	14	52.730	80.604	36.482	0.00	0.00
ATOM	226	HH22	ARG	X	14	53.321	80.663	34.908	0.00	0.00
ATOM	227	C	ARG	X	14	52.912	73.944	38.166	0.00	0.00
ATOM	228	O	ARG	X	14	53.646	73.368	38.998	0.00	0.00
ATOM	229	N	GLY	X	15	52.713	73.470	36.929	0.00	0.00
ATOM	230	H	GLY	X	15	52.245	74.020	36.223	0.00	0.00
ATOM	231	CA	GLY	X	15	53.383	72.236	36.381	0.00	0.00
ATOM	232	HA2	GLY	X	15	53.853	71.685	37.196	0.00	0.00
ATOM	233	HA3	GLY	X	15	52.663	71.495	36.074	0.00	0.00
ATOM	234	C	GLY	X	15	54.477	72.533	35.301	0.00	0.00
ATOM	235	O	GLY	X	15	55.072	73.611	35.380	0.00	0.00
ATOM	236	N	ILE	X	16	54.746	71.572	34.408	0.00	0.00
ATOM	237	H	ILE	X	16	54.558	70.617	34.676	0.00	0.00
ATOM	238	CA	ILE	X	16	55.810	71.687	33.434	0.00	0.00
ATOM	239	HA	ILE	X	16	56.175	72.708	33.328	0.00	0.00
ATOM	240	CB	ILE	X	16	57.115	71.061	33.911	0.00	0.00
ATOM	241	HB	ILE	X	16	57.861	71.162	33.122	0.00	0.00
ATOM	242	CG2	ILE	X	16	57.661	71.787	35.125	0.00	0.00
ATOM	243	HG21	ILE	X	16	57.705	72.858	34.928	0.00	0.00
ATOM	244	HG22	ILE	X	16	57.132	71.564	36.052	0.00	0.00
ATOM	245	HG23	ILE	X	16	58.685	71.428	35.226	0.00	0.00
ATOM	246	CG1	ILE	X	16	56.949	69.574	34.231	0.00	0.00
ATOM	247	HG12	ILE	X	16	56.312	69.394	35.097	0.00	0.00
ATOM	248	HG13	ILE	X	16	56.530	68.979	33.419	0.00	0.00

ATOM	249	CD1	ILE	X	16	58.169	68.759	34.718	0.00	0.00
ATOM	250	HD11	ILE	X	16	58.543	69.238	35.623	0.00	0.00
ATOM	251	HD12	ILE	X	16	57.783	67.778	34.995	0.00	0.00
ATOM	252	HD13	ILE	X	16	58.920	68.825	33.931	0.00	0.00
ATOM	253	C	ILE	X	16	55.465	71.220	32.008	0.00	0.00
ATOM	254	O	ILE	X	16	54.824	70.215	31.784	0.00	0.00
ATOM	255	N	ARG	X	17	56.036	71.923	31.017	0.00	0.00
ATOM	256	H	ARG	X	17	56.632	72.689	31.298	0.00	0.00
ATOM	257	CA	ARG	X	17	56.338	71.370	29.705	0.00	0.00
ATOM	258	HA	ARG	X	17	55.453	70.971	29.210	0.00	0.00
ATOM	259	CB	ARG	X	17	56.948	72.400	28.857	0.00	0.00
ATOM	260	HB2	ARG	X	17	56.284	73.263	28.886	0.00	0.00
ATOM	261	HB3	ARG	X	17	57.976	72.587	29.167	0.00	0.00
ATOM	262	CG	ARG	X	17	57.071	71.975	27.321	0.00	0.00
ATOM	263	HG2	ARG	X	17	57.794	71.165	27.226	0.00	0.00
ATOM	264	HG3	ARG	X	17	56.120	71.625	26.920	0.00	0.00
ATOM	265	CD	ARG	X	17	57.465	73.118	26.393	0.00	0.00
ATOM	266	HD2	ARG	X	17	57.034	72.932	25.410	0.00	0.00
ATOM	267	HD3	ARG	X	17	56.970	73.974	26.851	0.00	0.00
ATOM	268	NE	ARG	X	17	58.979	73.243	26.443	0.00	0.00
ATOM	269	HE	ARG	X	17	59.539	72.506	26.847	0.00	0.00
ATOM	270	CZ	ARG	X	17	59.710	74.259	26.054	0.00	0.00
ATOM	271	NH1	ARG	X	17	59.210	75.201	25.358	0.00	0.00
ATOM	272	HH11	ARG	X	17	58.308	75.071	24.923	0.00	0.00
ATOM	273	HH12	ARG	X	17	59.670	76.048	25.059	0.00	0.00
ATOM	274	NH2	ARG	X	17	60.867	74.445	26.549	0.00	0.00
ATOM	275	HH21	ARG	X	17	61.279	73.660	27.034	0.00	0.00
ATOM	276	HH22	ARG	X	17	61.437	75.229	26.265	0.00	0.00
ATOM	277	C	ARG	X	17	57.340	70.227	29.772	0.00	0.00
ATOM	278	O	ARG	X	17	58.261	70.393	30.543	0.00	0.00
ATOM	279	N	LEU	X	18	57.219	69.051	29.029	0.00	0.00
ATOM	280	H	LEU	X	18	56.432	69.061	28.396	0.00	0.00
ATOM	281	CA	LEU	X	18	58.223	67.997	28.757	0.00	0.00
ATOM	282	HA	LEU	X	18	59.203	68.212	29.183	0.00	0.00
ATOM	283	CB	LEU	X	18	57.696	66.751	29.357	0.00	0.00
ATOM	284	HB2	LEU	X	18	56.739	66.430	28.946	0.00	0.00
ATOM	285	HB3	LEU	X	18	58.475	66.015	29.156	0.00	0.00
ATOM	286	CG	LEU	X	18	57.563	66.759	30.917	0.00	0.00
ATOM	287	HG	LEU	X	18	56.768	67.451	31.196	0.00	0.00
ATOM	288	CD1	LEU	X	18	57.188	65.325	31.318	0.00	0.00
ATOM	289	HD11	LEU	X	18	57.065	65.101	32.377	0.00	0.00
ATOM	290	HD12	LEU	X	18	56.229	65.120	30.842	0.00	0.00
ATOM	291	HD13	LEU	X	18	57.923	64.652	30.875	0.00	0.00
ATOM	292	CD2	LEU	X	18	58.811	67.265	31.624	0.00	0.00
ATOM	293	HD21	LEU	X	18	58.722	66.991	32.675	0.00	0.00
ATOM	294	HD22	LEU	X	18	59.658	66.775	31.143	0.00	0.00
ATOM	295	HD23	LEU	X	18	58.789	68.352	31.540	0.00	0.00
ATOM	296	C	LEU	X	18	58.397	67.627	27.250	0.00	0.00
ATOM	297	O	LEU	X	18	57.482	67.705	26.436	0.00	0.00
ATOM	298	N	LYS	X	19	59.632	67.233	26.968	0.00	0.00
ATOM	299	H	LYS	X	19	60.313	67.095	27.700	0.00	0.00
ATOM	300	CA	LYS	X	19	60.112	66.691	25.635	0.00	0.00
ATOM	301	HA	LYS	X	19	59.381	67.022	24.897	0.00	0.00
ATOM	302	CB	LYS	X	19	61.464	67.305	25.333	0.00	0.00
ATOM	303	HB2	LYS	X	19	61.786	66.927	24.363	0.00	0.00
ATOM	304	HB3	LYS	X	19	61.462	68.390	25.232	0.00	0.00
ATOM	305	CG	LYS	X	19	62.611	66.830	26.264	0.00	0.00
ATOM	306	HG2	LYS	X	19	62.558	67.344	27.224	0.00	0.00
ATOM	307	HG3	LYS	X	19	62.500	65.757	26.417	0.00	0.00
ATOM	308	CD	LYS	X	19	63.993	67.080	25.551	0.00	0.00
ATOM	309	HD2	LYS	X	19	63.907	66.504	24.629	0.00	0.00
ATOM	310	HD3	LYS	X	19	64.052	68.132	25.274	0.00	0.00
ATOM	311	CE	LYS	X	19	65.184	66.565	26.408	0.00	0.00
ATOM	312	HE2	LYS	X	19	65.249	67.144	27.329	0.00	0.00
ATOM	313	HE3	LYS	X	19	65.131	65.512	26.684	0.00	0.00
ATOM	314	NZ	LYS	X	19	66.432	66.720	25.592	0.00	0.00
ATOM	315	HZ1	LYS	X	19	66.304	66.078	24.823	0.00	0.00
ATOM	316	HZ2	LYS	X	19	66.572	67.688	25.337	0.00	0.00
ATOM	317	HZ3	LYS	X	19	67.281	66.363	26.006	0.00	0.00
ATOM	318	C	LYS	X	19	59.940	65.162	25.538	0.00	0.00

ATOM	319	O	LYS	X	19	59.845	64.500	26.577	0.00	0.00
ATOM	320	N	THR	X	20	59.648	64.642	24.349	0.00	0.00
ATOM	321	H	THR	X	20	59.409	65.202	23.543	0.00	0.00
ATOM	322	CA	THR	X	20	59.767	63.185	23.951	0.00	0.00
ATOM	323	HA	THR	X	20	60.462	62.761	24.676	0.00	0.00
ATOM	324	CB	THR	X	20	58.461	62.349	24.071	0.00	0.00
ATOM	325	HB	THR	X	20	58.733	61.294	24.114	0.00	0.00
ATOM	326	CG2	THR	X	20	57.551	62.691	25.268	0.00	0.00
ATOM	327	HG21	THR	X	20	56.713	61.994	25.269	0.00	0.00
ATOM	328	HG22	THR	X	20	58.157	62.615	26.171	0.00	0.00
ATOM	329	HG23	THR	X	20	57.215	63.727	25.225	0.00	0.00
ATOM	330	OG1	THR	X	20	57.655	62.426	22.934	0.00	0.00
ATOM	331	HG1	THR	X	20	57.298	63.299	22.754	0.00	0.00
ATOM	332	C	THR	X	20	60.371	62.977	22.564	0.00	0.00
ATOM	333	O	THR	X	20	60.612	64.007	21.936	0.00	0.00
ATOM	334	N	PRO	X	21	60.612	61.779	22.032	0.00	0.00
ATOM	335	CD	PRO	X	21	60.607	60.503	22.829	0.00	0.00
ATOM	336	HD2	PRO	X	21	59.596	60.097	22.841	0.00	0.00
ATOM	337	HD3	PRO	X	21	60.915	60.707	23.854	0.00	0.00
ATOM	338	CG	PRO	X	21	61.639	59.649	22.085	0.00	0.00
ATOM	339	HG2	PRO	X	21	61.247	58.637	22.185	0.00	0.00
ATOM	340	HG3	PRO	X	21	62.606	59.790	22.567	0.00	0.00
ATOM	341	CB	PRO	X	21	61.598	60.117	20.599	0.00	0.00
ATOM	342	HB2	PRO	X	21	60.891	59.484	20.064	0.00	0.00
ATOM	343	HB3	PRO	X	21	62.540	59.973	20.070	0.00	0.00
ATOM	344	CA	PRO	X	21	61.121	61.622	20.656	0.00	0.00
ATOM	345	HA	PRO	X	21	62.042	62.204	20.608	0.00	0.00
ATOM	346	C	PRO	X	21	60.112	62.050	19.622	0.00	0.00
ATOM	347	O	PRO	X	21	60.479	62.567	18.585	0.00	0.00
ATOM	348	N	GLY	X	22	58.822	61.889	19.894	0.00	0.00
ATOM	349	H	GLY	X	22	58.715	61.513	20.825	0.00	0.00
ATOM	350	CA	GLY	X	22	57.627	62.275	19.194	0.00	0.00
ATOM	351	HA2	GLY	X	22	57.551	62.024	18.148	0.00	0.00
ATOM	352	HA3	GLY	X	22	56.748	61.772	19.658	0.00	0.00
ATOM	353	C	GLY	X	22	57.309	63.760	19.244	0.00	0.00
ATOM	354	O	GLY	X	22	56.304	64.169	18.627	0.00	0.00
ATOM	355	N	GLY	X	23	58.134	64.535	19.943	0.00	0.00
ATOM	356	H	GLY	X	23	58.859	64.063	20.462	0.00	0.00
ATOM	357	CA	GLY	X	23	57.795	65.932	20.258	0.00	0.00
ATOM	358	HA2	GLY	X	23	58.720	66.462	20.305	0.00	0.00
ATOM	359	HA3	GLY	X	23	57.173	66.345	19.452	0.00	0.00
ATOM	360	C	GLY	X	23	57.092	66.098	21.649	0.00	0.00
ATOM	361	O	GLY	X	23	57.287	65.122	22.420	0.00	0.00
ATOM	362	N	PRO	X	24	56.410	67.152	22.058	0.00	0.00
ATOM	363	CD	PRO	X	24	56.207	68.301	21.158	0.00	0.00
ATOM	364	HD2	PRO	X	24	55.441	67.912	20.487	0.00	0.00
ATOM	365	HD3	PRO	X	24	57.183	68.535	20.732	0.00	0.00
ATOM	366	CG	PRO	X	24	55.803	69.534	22.047	0.00	0.00
ATOM	367	HG2	PRO	X	24	54.720	69.637	22.120	0.00	0.00
ATOM	368	HG3	PRO	X	24	56.361	70.422	21.749	0.00	0.00
ATOM	369	CB	PRO	X	24	56.419	69.105	23.426	0.00	0.00
ATOM	370	HB2	PRO	X	24	55.823	69.617	24.180	0.00	0.00
ATOM	371	HB3	PRO	X	24	57.490	69.304	23.444	0.00	0.00
ATOM	372	CA	PRO	X	24	56.265	67.612	23.405	0.00	0.00
ATOM	373	HA	PRO	X	24	57.165	67.242	23.895	0.00	0.00
ATOM	374	C	PRO	X	24	54.954	67.095	24.114	0.00	0.00
ATOM	375	O	PRO	X	24	54.105	66.447	23.499	0.00	0.00
ATOM	376	N	VAL	X	25	54.852	67.410	25.387	0.00	0.00
ATOM	377	H	VAL	X	25	55.688	67.778	25.817	0.00	0.00
ATOM	378	CA	VAL	X	25	53.704	67.101	26.274	0.00	0.00
ATOM	379	HA	VAL	X	25	52.734	67.386	25.866	0.00	0.00
ATOM	380	CB	VAL	X	25	53.755	65.566	26.619	0.00	0.00
ATOM	381	HB	VAL	X	25	53.503	65.505	27.678	0.00	0.00
ATOM	382	CG1	VAL	X	25	52.769	64.769	25.809	0.00	0.00
ATOM	383	HG11	VAL	X	25	53.155	64.413	24.854	0.00	0.00
ATOM	384	HG12	VAL	X	25	52.613	63.901	26.451	0.00	0.00
ATOM	385	HG13	VAL	X	25	51.769	65.186	25.687	0.00	0.00
ATOM	386	CG2	VAL	X	25	55.178	64.922	26.588	0.00	0.00
ATOM	387	HG21	VAL	X	25	55.938	65.607	26.964	0.00	0.00
ATOM	388	HG22	VAL	X	25	55.197	63.984	27.143	0.00	0.00

ATOM	389	HG23	VAL	X	25	55.424	64.635	25.566	0.00	0.00
ATOM	390	C	VAL	X	25	53.881	67.947	27.543	0.00	0.00
ATOM	391	O	VAL	X	25	54.753	68.776	27.570	0.00	0.00
ATOM	392	N	SER	X	26	53.043	67.747	28.533	0.00	0.00
ATOM	393	H	SER	X	26	52.199	67.196	28.474	0.00	0.00
ATOM	394	CA	SER	X	26	53.082	68.468	29.792	0.00	0.00
ATOM	395	HA	SER	X	26	54.086	68.846	29.985	0.00	0.00
ATOM	396	CB	SER	X	26	52.181	69.745	29.937	0.00	0.00
ATOM	397	HB2	SER	X	26	51.996	69.958	30.990	0.00	0.00
ATOM	398	HB3	SER	X	26	52.681	70.571	29.432	0.00	0.00
ATOM	399	OG	SER	X	26	50.950	69.517	29.327	0.00	0.00
ATOM	400	HG	SER	X	26	50.791	68.580	29.186	0.00	0.00
ATOM	401	C	SER	X	26	52.915	67.532	31.008	0.00	0.00
ATOM	402	O	SER	X	26	52.259	66.533	30.785	0.00	0.00
ATOM	403	N	ALA	X	27	53.390	67.950	32.221	0.00	0.00
ATOM	404	H	ALA	X	27	53.853	68.846	32.170	0.00	0.00
ATOM	405	CA	ALA	X	27	53.123	67.285	33.502	0.00	0.00
ATOM	406	HA	ALA	X	27	52.218	66.687	33.391	0.00	0.00
ATOM	407	CB	ALA	X	27	54.206	66.239	33.742	0.00	0.00
ATOM	408	HB1	ALA	X	27	54.584	65.791	32.823	0.00	0.00
ATOM	409	HB2	ALA	X	27	55.063	66.764	34.164	0.00	0.00
ATOM	410	HB3	ALA	X	27	53.789	65.421	34.328	0.00	0.00
ATOM	411	C	ALA	X	27	52.971	68.184	34.752	0.00	0.00
ATOM	412	O	ALA	X	27	53.514	69.251	34.865	0.00	0.00
ATOM	413	N	PHE	X	28	52.182	67.730	35.705	0.00	0.00
ATOM	414	H	PHE	X	28	51.717	66.880	35.420	0.00	0.00
ATOM	415	CA	PHE	X	28	51.801	68.228	36.984	0.00	0.00
ATOM	416	HA	PHE	X	28	52.429	69.112	37.090	0.00	0.00
ATOM	417	CB	PHE	X	28	50.367	68.791	36.914	0.00	0.00
ATOM	418	HB2	PHE	X	28	49.687	67.987	36.632	0.00	0.00
ATOM	419	HB3	PHE	X	28	50.072	69.047	37.931	0.00	0.00
ATOM	420	CG	PHE	X	28	50.051	70.005	36.005	0.00	0.00
ATOM	421	CD1	PHE	X	28	49.768	69.743	34.669	0.00	0.00
ATOM	422	HD1	PHE	X	28	49.785	68.731	34.292	0.00	0.00
ATOM	423	CE1	PHE	X	28	49.346	70.787	33.839	0.00	0.00
ATOM	424	HE1	PHE	X	28	49.101	70.631	32.799	0.00	0.00
ATOM	425	CZ	PHE	X	28	49.262	72.105	34.336	0.00	0.00
ATOM	426	HZ	PHE	X	28	48.825	72.869	33.711	0.00	0.00
ATOM	427	CE2	PHE	X	28	49.527	72.365	35.682	0.00	0.00
ATOM	428	HE2	PHE	X	28	49.222	73.276	36.176	0.00	0.00
ATOM	429	CD2	PHE	X	28	50.018	71.311	36.521	0.00	0.00
ATOM	430	HD2	PHE	X	28	50.236	71.392	37.576	0.00	0.00
ATOM	431	C	PHE	X	28	52.082	67.081	37.984	0.00	0.00
ATOM	432	O	PHE	X	28	51.335	66.121	37.912	0.00	0.00
ATOM	433	N	LEU	X	29	53.113	67.192	38.790	0.00	0.00
ATOM	434	H	LEU	X	29	53.516	68.101	38.972	0.00	0.00
ATOM	435	CA	LEU	X	29	53.628	66.096	39.593	0.00	0.00
ATOM	436	HA	LEU	X	29	53.134	65.142	39.412	0.00	0.00
ATOM	437	CB	LEU	X	29	55.110	65.957	39.115	0.00	0.00
ATOM	438	HB2	LEU	X	29	55.700	66.846	39.337	0.00	0.00
ATOM	439	HB3	LEU	X	29	55.608	65.183	39.699	0.00	0.00
ATOM	440	CG	LEU	X	29	55.223	65.591	37.582	0.00	0.00
ATOM	441	HG	LEU	X	29	54.753	66.355	36.963	0.00	0.00
ATOM	442	CD1	LEU	X	29	56.743	65.613	37.253	0.00	0.00
ATOM	443	HD11	LEU	X	29	56.987	65.223	36.265	0.00	0.00
ATOM	444	HD12	LEU	X	29	57.172	66.572	37.544	0.00	0.00
ATOM	445	HD13	LEU	X	29	57.165	64.924	37.984	0.00	0.00
ATOM	446	CD2	LEU	X	29	54.591	64.174	37.346	0.00	0.00
ATOM	447	HD21	LEU	X	29	53.504	64.176	37.432	0.00	0.00
ATOM	448	HD22	LEU	X	29	54.936	63.858	36.361	0.00	0.00
ATOM	449	HD23	LEU	X	29	54.776	63.464	38.152	0.00	0.00
ATOM	450	C	LEU	X	29	53.572	66.432	41.014	0.00	0.00
ATOM	451	O	LEU	X	29	53.669	67.630	41.304	0.00	0.00
ATOM	452	N	GLY	X	30	53.547	65.463	41.933	0.00	0.00
ATOM	453	H	GLY	X	30	53.611	64.532	41.546	0.00	0.00
ATOM	454	CA	GLY	X	30	53.593	65.765	43.371	0.00	0.00
ATOM	455	HA2	GLY	X	30	53.789	64.883	44.006	0.00	0.00
ATOM	456	HA3	GLY	X	30	54.501	66.321	43.614	0.00	0.00
ATOM	457	C	GLY	X	30	52.371	66.548	43.938	0.00	0.00
ATOM	458	O	GLY	X	30	52.455	67.028	45.078	0.00	0.00

ATOM	459	N	ILE	X	31	51.269	66.668	43.227	0.00	0.00
ATOM	460	H	ILE	X	31	51.322	66.166	42.352	0.00	0.00
ATOM	461	CA	ILE	X	31	50.088	67.357	43.693	0.00	0.00
ATOM	462	HA	ILE	X	31	50.389	68.398	43.813	0.00	0.00
ATOM	463	CB	ILE	X	31	49.002	67.308	42.561	0.00	0.00
ATOM	464	HB	ILE	X	31	48.811	66.273	42.277	0.00	0.00
ATOM	465	CG2	ILE	X	31	47.720	68.017	43.147	0.00	0.00
ATOM	466	HG21	ILE	X	31	47.144	68.323	42.274	0.00	0.00
ATOM	467	HG22	ILE	X	31	47.144	67.365	43.804	0.00	0.00
ATOM	468	HG23	ILE	X	31	48.079	68.869	43.724	0.00	0.00
ATOM	469	CG1	ILE	X	31	49.382	67.831	41.168	0.00	0.00
ATOM	470	HG12	ILE	X	31	49.424	68.919	41.212	0.00	0.00
ATOM	471	HG13	ILE	X	31	50.382	67.489	40.900	0.00	0.00
ATOM	472	CD1	ILE	X	31	48.437	67.509	40.040	0.00	0.00
ATOM	473	HD11	ILE	X	31	48.314	66.427	39.999	0.00	0.00
ATOM	474	HD12	ILE	X	31	47.515	68.089	40.082	0.00	0.00
ATOM	475	HD13	ILE	X	31	48.873	67.580	39.044	0.00	0.00
ATOM	476	C	ILE	X	31	49.566	66.943	45.051	0.00	0.00
ATOM	477	O	ILE	X	31	49.293	65.812	45.284	0.00	0.00
ATOM	478	N	PRO	X	32	49.365	67.786	46.048	0.00	0.00
ATOM	479	CD	PRO	X	32	49.740	69.227	46.019	0.00	0.00
ATOM	480	HD2	PRO	X	32	49.079	69.806	45.374	0.00	0.00
ATOM	481	HD3	PRO	X	32	50.779	69.314	45.700	0.00	0.00
ATOM	482	CG	PRO	X	32	49.639	69.812	47.378	0.00	0.00
ATOM	483	HG2	PRO	X	32	49.188	70.804	47.402	0.00	0.00
ATOM	484	HG3	PRO	X	32	50.601	69.845	47.889	0.00	0.00
ATOM	485	CB	PRO	X	32	48.953	68.715	48.186	0.00	0.00
ATOM	486	HB2	PRO	X	32	48.078	69.136	48.681	0.00	0.00
ATOM	487	HB3	PRO	X	32	49.604	68.305	48.958	0.00	0.00
ATOM	488	CA	PRO	X	32	48.699	67.496	47.291	0.00	0.00
ATOM	489	HA	PRO	X	32	49.062	66.534	47.652	0.00	0.00
ATOM	490	C	PRO	X	32	47.186	67.281	47.127	0.00	0.00
ATOM	491	O	PRO	X	32	46.531	68.104	46.551	0.00	0.00
ATOM	492	N	PHE	X	33	46.681	66.216	47.803	0.00	0.00
ATOM	493	H	PHE	X	33	47.407	65.668	48.242	0.00	0.00
ATOM	494	CA	PHE	X	33	45.269	65.784	47.645	0.00	0.00
ATOM	495	HA	PHE	X	33	44.812	66.726	47.344	0.00	0.00
ATOM	496	CB	PHE	X	33	45.035	64.654	46.646	0.00	0.00
ATOM	497	HB2	PHE	X	33	43.993	64.682	46.328	0.00	0.00
ATOM	498	HB3	PHE	X	33	45.480	64.910	45.685	0.00	0.00
ATOM	499	CG	PHE	X	33	45.542	63.346	47.081	0.00	0.00
ATOM	500	CD1	PHE	X	33	44.632	62.432	47.650	0.00	0.00
ATOM	501	HD1	PHE	X	33	43.599	62.738	47.732	0.00	0.00
ATOM	502	CE1	PHE	X	33	45.010	61.158	47.964	0.00	0.00
ATOM	503	HE1	PHE	X	33	44.311	60.437	48.361	0.00	0.00
ATOM	504	CZ	PHE	X	33	46.272	60.664	47.618	0.00	0.00
ATOM	505	HZ	PHE	X	33	46.561	59.627	47.706	0.00	0.00
ATOM	506	CE2	PHE	X	33	47.134	61.513	46.992	0.00	0.00
ATOM	507	HE2	PHE	X	33	48.116	61.166	46.705	0.00	0.00
ATOM	508	CD2	PHE	X	33	46.800	62.861	46.769	0.00	0.00
ATOM	509	HD2	PHE	X	33	47.482	63.563	46.311	0.00	0.00
ATOM	510	C	PHE	X	33	44.543	65.544	49.002	0.00	0.00
ATOM	511	O	PHE	X	33	43.309	65.704	49.049	0.00	0.00
ATOM	512	N	ALA	X	34	45.338	65.170	49.988	0.00	0.00
ATOM	513	H	ALA	X	34	46.336	65.148	49.836	0.00	0.00
ATOM	514	CA	ALA	X	34	44.917	64.949	51.381	0.00	0.00
ATOM	515	HA	ALA	X	34	43.949	65.418	51.556	0.00	0.00
ATOM	516	CB	ALA	X	34	44.869	63.421	51.434	0.00	0.00
ATOM	517	HB1	ALA	X	34	45.831	62.910	51.482	0.00	0.00
ATOM	518	HB2	ALA	X	34	44.428	63.051	52.359	0.00	0.00
ATOM	519	HB3	ALA	X	34	44.246	63.073	50.610	0.00	0.00
ATOM	520	C	ALA	X	34	45.929	65.583	52.399	0.00	0.00
ATOM	521	O	ALA	X	34	46.997	66.043	51.979	0.00	0.00
ATOM	522	N	GLU	X	35	45.601	65.630	53.706	0.00	0.00
ATOM	523	H	GLU	X	35	44.622	65.435	53.861	0.00	0.00
ATOM	524	CA	GLU	X	35	46.461	65.982	54.857	0.00	0.00
ATOM	525	HA	GLU	X	35	47.035	66.881	54.634	0.00	0.00
ATOM	526	CB	GLU	X	35	45.628	66.329	56.086	0.00	0.00
ATOM	527	HB2	GLU	X	35	44.921	65.535	56.325	0.00	0.00
ATOM	528	HB3	GLU	X	35	46.253	66.399	56.977	0.00	0.00

ATOM	529	CG	GLU	X	35	44.996	67.703	56.025	0.00	0.00
ATOM	530	HG2	GLU	X	35	44.395	67.804	55.121	0.00	0.00
ATOM	531	HG3	GLU	X	35	44.350	67.920	56.877	0.00	0.00
ATOM	532	CD	GLU	X	35	46.057	68.795	56.041	0.00	0.00
ATOM	533	OE1	GLU	X	35	46.599	68.972	57.148	0.00	0.00
ATOM	534	OE2	GLU	X	35	46.136	69.567	55.042	0.00	0.00
ATOM	535	C	GLU	X	35	47.455	64.800	55.156	0.00	0.00
ATOM	536	O	GLU	X	35	47.126	63.664	54.901	0.00	0.00
ATOM	537	N	PRO	X	36	48.536	65.182	55.807	0.00	0.00
ATOM	538	CD	PRO	X	36	49.004	66.512	56.101	0.00	0.00
ATOM	539	HD2	PRO	X	36	48.581	66.825	57.055	0.00	0.00
ATOM	540	HD3	PRO	X	36	48.738	67.291	55.387	0.00	0.00
ATOM	541	CG	PRO	X	36	50.522	66.383	56.258	0.00	0.00
ATOM	542	HG2	PRO	X	36	50.918	67.257	56.775	0.00	0.00
ATOM	543	HG3	PRO	X	36	50.961	66.168	55.284	0.00	0.00
ATOM	544	CB	PRO	X	36	50.612	65.080	57.049	0.00	0.00
ATOM	545	HB2	PRO	X	36	50.318	65.137	58.097	0.00	0.00
ATOM	546	HB3	PRO	X	36	51.547	64.594	56.773	0.00	0.00
ATOM	547	CA	PRO	X	36	49.547	64.275	56.286	0.00	0.00
ATOM	548	HA	PRO	X	36	50.042	63.854	55.410	0.00	0.00
ATOM	549	C	PRO	X	36	48.976	63.164	57.260	0.00	0.00
ATOM	550	O	PRO	X	36	48.626	63.477	58.393	0.00	0.00
ATOM	551	N	PRO	X	37	48.898	61.911	56.774	0.00	0.00
ATOM	552	CD	PRO	X	37	49.378	61.363	55.477	0.00	0.00
ATOM	553	HD2	PRO	X	37	50.437	61.454	55.238	0.00	0.00
ATOM	554	HD3	PRO	X	37	48.744	61.843	54.731	0.00	0.00
ATOM	555	CG	PRO	X	37	49.152	59.852	55.462	0.00	0.00
ATOM	556	HG2	PRO	X	37	50.077	59.411	55.831	0.00	0.00
ATOM	557	HG3	PRO	X	37	48.976	59.431	54.472	0.00	0.00
ATOM	558	CB	PRO	X	37	47.986	59.717	56.341	0.00	0.00
ATOM	559	HB2	PRO	X	37	47.919	58.704	56.738	0.00	0.00
ATOM	560	HB3	PRO	X	37	47.029	59.928	55.865	0.00	0.00
ATOM	561	CA	PRO	X	37	48.381	60.724	57.445	0.00	0.00
ATOM	562	HA	PRO	X	37	47.481	61.035	57.976	0.00	0.00
ATOM	563	C	PRO	X	37	49.375	60.067	58.460	0.00	0.00
ATOM	564	O	PRO	X	37	49.073	59.104	59.161	0.00	0.00
ATOM	565	N	MET	X	38	50.564	60.666	58.670	0.00	0.00
ATOM	566	H	MET	X	38	50.910	61.271	57.938	0.00	0.00
ATOM	567	CA	MET	X	38	51.528	60.330	59.749	0.00	0.00
ATOM	568	HA	MET	X	38	51.994	59.368	59.533	0.00	0.00
ATOM	569	CB	MET	X	38	52.658	61.320	59.783	0.00	0.00
ATOM	570	HB2	MET	X	38	53.436	60.951	60.452	0.00	0.00
ATOM	571	HB3	MET	X	38	53.068	61.487	58.787	0.00	0.00
ATOM	572	CG	MET	X	38	52.272	62.732	60.217	0.00	0.00
ATOM	573	HG2	MET	X	38	51.442	63.020	59.573	0.00	0.00
ATOM	574	HG3	MET	X	38	52.038	62.626	61.276	0.00	0.00
ATOM	575	SD	MET	X	38	53.541	64.018	60.051	0.00	0.00
ATOM	576	CE	MET	X	38	52.660	65.586	60.457	0.00	0.00
ATOM	577	HE1	MET	X	38	51.933	65.765	59.665	0.00	0.00
ATOM	578	HE2	MET	X	38	52.267	65.592	61.474	0.00	0.00
ATOM	579	HE3	MET	X	38	53.432	66.343	60.319	0.00	0.00
ATOM	580	C	MET	X	38	50.946	60.233	61.125	0.00	0.00
ATOM	581	O	MET	X	38	49.900	60.761	61.527	0.00	0.00
ATOM	582	N	GLY	X	39	51.651	59.402	61.888	0.00	0.00
ATOM	583	H	GLY	X	39	52.391	58.954	61.366	0.00	0.00
ATOM	584	CA	GLY	X	39	51.528	59.348	63.332	0.00	0.00
ATOM	585	HA2	GLY	X	39	52.148	58.567	63.805	0.00	0.00
ATOM	586	HA3	GLY	X	39	51.852	60.287	63.743	0.00	0.00
ATOM	587	C	GLY	X	39	50.130	59.041	63.844	0.00	0.00
ATOM	588	O	GLY	X	39	49.685	57.848	63.828	0.00	0.00
ATOM	589	N	PRO	X	40	49.381	60.002	64.428	0.00	0.00
ATOM	590	CD	PRO	X	40	49.978	61.286	64.944	0.00	0.00
ATOM	591	HD2	PRO	X	40	50.297	61.941	64.133	0.00	0.00
ATOM	592	HD3	PRO	X	40	50.859	61.029	65.533	0.00	0.00
ATOM	593	CG	PRO	X	40	48.854	61.865	65.821	0.00	0.00
ATOM	594	HG2	PRO	X	40	48.961	62.949	65.797	0.00	0.00
ATOM	595	HG3	PRO	X	40	48.965	61.437	66.817	0.00	0.00
ATOM	596	CB	PRO	X	40	47.511	61.369	65.201	0.00	0.00
ATOM	597	HB2	PRO	X	40	47.293	61.940	64.298	0.00	0.00
ATOM	598	HB3	PRO	X	40	46.632	61.500	65.832	0.00	0.00

ATOM	599	CA	PRO	X	40	48.011	59.879	64.924	0.00	0.00
ATOM	600	HA	PRO	X	40	47.959	59.265	65.823	0.00	0.00
ATOM	601	C	PRO	X	40	47.049	59.244	63.887	0.00	0.00
ATOM	602	O	PRO	X	40	46.132	58.549	64.350	0.00	0.00
ATOM	603	N	ARG	X	41	47.277	59.545	62.664	0.00	0.00
ATOM	604	H	ARG	X	41	47.961	60.211	62.333	0.00	0.00
ATOM	605	CA	ARG	X	41	46.405	59.040	61.551	0.00	0.00
ATOM	606	HA	ARG	X	41	45.408	58.888	61.966	0.00	0.00
ATOM	607	CB	ARG	X	41	46.225	60.091	60.549	0.00	0.00
ATOM	608	HB2	ARG	X	41	47.192	60.489	60.240	0.00	0.00
ATOM	609	HB3	ARG	X	41	45.726	59.686	59.670	0.00	0.00
ATOM	610	CG	ARG	X	41	45.406	61.249	61.031	0.00	0.00
ATOM	611	HG2	ARG	X	41	44.460	60.829	61.371	0.00	0.00
ATOM	612	HG3	ARG	X	41	45.926	61.604	61.921	0.00	0.00
ATOM	613	CD	ARG	X	41	45.342	62.289	59.969	0.00	0.00
ATOM	614	HD2	ARG	X	41	46.335	62.494	59.570	0.00	0.00
ATOM	615	HD3	ARG	X	41	44.909	61.865	59.063	0.00	0.00
ATOM	616	NE	ARG	X	41	44.598	63.515	60.285	0.00	0.00
ATOM	617	HE	ARG	X	41	43.594	63.496	60.386	0.00	0.00
ATOM	618	CZ	ARG	X	41	45.091	64.731	60.119	0.00	0.00
ATOM	619	NH1	ARG	X	41	46.366	65.000	59.986	0.00	0.00
ATOM	620	HH11	ARG	X	41	47.038	64.264	60.148	0.00	0.00
ATOM	621	HH12	ARG	X	41	46.750	65.934	59.978	0.00	0.00
ATOM	622	NH2	ARG	X	41	44.247	65.728	60.126	0.00	0.00
ATOM	623	HH21	ARG	X	41	43.250	65.575	60.073	0.00	0.00
ATOM	624	HH22	ARG	X	41	44.578	66.676	60.013	0.00	0.00
ATOM	625	C	ARG	X	41	46.814	57.623	61.024	0.00	0.00
ATOM	626	O	ARG	X	41	46.170	57.054	60.153	0.00	0.00
ATOM	627	N	ARG	X	42	47.978	57.117	61.505	0.00	0.00
ATOM	628	H	ARG	X	42	48.495	57.553	62.255	0.00	0.00
ATOM	629	CA	ARG	X	42	48.389	55.807	61.123	0.00	0.00
ATOM	630	HA	ARG	X	42	48.631	55.799	60.060	0.00	0.00
ATOM	631	CB	ARG	X	42	49.739	55.507	61.878	0.00	0.00
ATOM	632	HB2	ARG	X	42	50.467	56.298	61.697	0.00	0.00
ATOM	633	HB3	ARG	X	42	49.499	55.425	62.939	0.00	0.00
ATOM	634	CG	ARG	X	42	50.477	54.196	61.473	0.00	0.00
ATOM	635	HG2	ARG	X	42	49.687	53.448	61.544	0.00	0.00
ATOM	636	HG3	ARG	X	42	50.775	54.192	60.424	0.00	0.00
ATOM	637	CD	ARG	X	42	51.604	53.767	62.363	0.00	0.00
ATOM	638	HD2	ARG	X	42	51.255	53.758	63.395	0.00	0.00
ATOM	639	HD3	ARG	X	42	51.909	52.779	62.020	0.00	0.00
ATOM	640	NE	ARG	X	42	52.699	54.730	62.224	0.00	0.00
ATOM	641	HE	ARG	X	42	52.729	55.323	61.407	0.00	0.00
ATOM	642	CZ	ARG	X	42	53.663	54.917	63.126	0.00	0.00
ATOM	643	NH1	ARG	X	42	53.823	54.096	64.147	0.00	0.00
ATOM	644	HH11	ARG	X	42	53.097	53.415	64.317	0.00	0.00
ATOM	645	HH12	ARG	X	42	54.513	54.243	64.869	0.00	0.00
ATOM	646	NH2	ARG	X	42	54.410	55.968	62.991	0.00	0.00
ATOM	647	HH21	ARG	X	42	54.209	56.503	62.158	0.00	0.00
ATOM	648	HH22	ARG	X	42	55.022	56.211	63.757	0.00	0.00
ATOM	649	C	ARG	X	42	47.304	54.837	61.534	0.00	0.00
ATOM	650	O	ARG	X	42	46.725	54.994	62.645	0.00	0.00
ATOM	651	N	PHE	X	43	46.876	53.918	60.662	0.00	0.00
ATOM	652	H	PHE	X	43	47.404	53.853	59.804	0.00	0.00
ATOM	653	CA	PHE	X	43	45.728	52.956	60.857	0.00	0.00
ATOM	654	HA	PHE	X	43	45.794	52.238	60.040	0.00	0.00
ATOM	655	CB	PHE	X	43	45.912	52.106	62.044	0.00	0.00
ATOM	656	HB2	PHE	X	43	45.670	52.601	62.984	0.00	0.00
ATOM	657	HB3	PHE	X	43	45.302	51.203	62.065	0.00	0.00
ATOM	658	CG	PHE	X	43	47.342	51.629	62.264	0.00	0.00
ATOM	659	CD1	PHE	X	43	48.118	51.191	61.175	0.00	0.00
ATOM	660	HD1	PHE	X	43	47.826	51.255	60.137	0.00	0.00
ATOM	661	CE1	PHE	X	43	49.449	50.804	61.478	0.00	0.00
ATOM	662	HE1	PHE	X	43	50.114	50.482	60.690	0.00	0.00
ATOM	663	CZ	PHE	X	43	50.015	50.814	62.755	0.00	0.00
ATOM	664	HZ	PHE	X	43	51.013	50.506	63.032	0.00	0.00
ATOM	665	CE2	PHE	X	43	49.117	51.235	63.786	0.00	0.00
ATOM	666	HE2	PHE	X	43	49.448	51.233	64.814	0.00	0.00
ATOM	667	CD2	PHE	X	43	47.820	51.652	63.575	0.00	0.00
ATOM	668	HD2	PHE	X	43	47.243	51.957	64.436	0.00	0.00

ATOM	669	C	PHE	X	43	44.310	53.648	60.739	0.00	0.00
ATOM	670	O	PHE	X	43	43.253	52.995	60.780	0.00	0.00
ATOM	671	N	LEU	X	44	44.237	54.999	60.628	0.00	0.00
ATOM	672	H	LEU	X	44	45.072	55.534	60.435	0.00	0.00
ATOM	673	CA	LEU	X	44	42.988	55.686	60.434	0.00	0.00
ATOM	674	HA	LEU	X	44	42.164	54.976	60.508	0.00	0.00
ATOM	675	CB	LEU	X	44	42.843	56.894	61.330	0.00	0.00
ATOM	676	HB2	LEU	X	44	43.804	57.409	61.338	0.00	0.00
ATOM	677	HB3	LEU	X	44	42.136	57.559	60.834	0.00	0.00
ATOM	678	CG	LEU	X	44	42.472	56.589	62.820	0.00	0.00
ATOM	679	HG	LEU	X	44	43.196	55.972	63.352	0.00	0.00
ATOM	680	CD1	LEU	X	44	42.374	57.982	63.467	0.00	0.00
ATOM	681	HD11	LEU	X	44	43.205	58.586	63.102	0.00	0.00
ATOM	682	HD12	LEU	X	44	41.495	58.509	63.096	0.00	0.00
ATOM	683	HD13	LEU	X	44	42.257	57.807	64.537	0.00	0.00
ATOM	684	CD2	LEU	X	44	41.218	55.749	62.852	0.00	0.00
ATOM	685	HD21	LEU	X	44	41.397	54.686	62.691	0.00	0.00
ATOM	686	HD22	LEU	X	44	40.835	55.817	63.870	0.00	0.00
ATOM	687	HD23	LEU	X	44	40.426	56.043	62.164	0.00	0.00
ATOM	688	C	LEU	X	44	42.936	56.164	58.962	0.00	0.00
ATOM	689	O	LEU	X	44	43.948	56.407	58.358	0.00	0.00
ATOM	690	N	PRO	X	45	41.696	56.206	58.395	0.00	0.00
ATOM	691	CD	PRO	X	45	40.385	55.812	58.988	0.00	0.00
ATOM	692	HD2	PRO	X	45	39.998	56.537	59.704	0.00	0.00
ATOM	693	HD3	PRO	X	45	40.427	54.857	59.513	0.00	0.00
ATOM	694	CG	PRO	X	45	39.460	55.711	57.832	0.00	0.00
ATOM	695	HG2	PRO	X	45	38.439	55.832	58.195	0.00	0.00
ATOM	696	HG3	PRO	X	45	39.663	54.743	57.375	0.00	0.00
ATOM	697	CB	PRO	X	45	39.977	56.831	56.967	0.00	0.00
ATOM	698	HB2	PRO	X	45	39.579	57.733	57.431	0.00	0.00
ATOM	699	HB3	PRO	X	45	39.658	56.687	55.934	0.00	0.00
ATOM	700	CA	PRO	X	45	41.496	56.833	57.098	0.00	0.00
ATOM	701	HA	PRO	X	45	41.874	56.253	56.256	0.00	0.00
ATOM	702	C	PRO	X	45	42.018	58.298	56.952	0.00	0.00
ATOM	703	O	PRO	X	45	42.388	58.879	57.960	0.00	0.00
ATOM	704	N	PRO	X	46	41.901	58.885	55.718	0.00	0.00
ATOM	705	CD	PRO	X	46	41.585	58.207	54.437	0.00	0.00
ATOM	706	HD2	PRO	X	46	40.550	57.868	54.483	0.00	0.00
ATOM	707	HD3	PRO	X	46	42.299	57.394	54.308	0.00	0.00
ATOM	708	CG	PRO	X	46	41.873	59.243	53.357	0.00	0.00
ATOM	709	HG2	PRO	X	46	41.009	59.897	53.234	0.00	0.00
ATOM	710	HG3	PRO	X	46	42.198	58.789	52.421	0.00	0.00
ATOM	711	CB	PRO	X	46	42.996	60.036	54.052	0.00	0.00
ATOM	712	HB2	PRO	X	46	43.052	60.994	53.535	0.00	0.00
ATOM	713	HB3	PRO	X	46	43.992	59.611	53.925	0.00	0.00
ATOM	714	CA	PRO	X	46	42.567	60.116	55.503	0.00	0.00
ATOM	715	HA	PRO	X	46	43.400	60.255	56.192	0.00	0.00
ATOM	716	C	PRO	X	46	41.594	61.323	55.689	0.00	0.00
ATOM	717	O	PRO	X	46	40.521	61.195	56.291	0.00	0.00
ATOM	718	N	GLU	X	47	42.000	62.518	55.141	0.00	0.00
ATOM	719	H	GLU	X	47	42.911	62.637	54.720	0.00	0.00
ATOM	720	CA	GLU	X	47	41.281	63.752	55.169	0.00	0.00
ATOM	721	HA	GLU	X	47	40.193	63.720	55.110	0.00	0.00
ATOM	722	CB	GLU	X	47	41.418	64.480	56.485	0.00	0.00
ATOM	723	HB2	GLU	X	47	42.470	64.691	56.680	0.00	0.00
ATOM	724	HB3	GLU	X	47	40.939	65.454	56.389	0.00	0.00
ATOM	725	CG	GLU	X	47	40.721	63.828	57.721	0.00	0.00
ATOM	726	HG2	GLU	X	47	39.707	63.634	57.373	0.00	0.00
ATOM	727	HG3	GLU	X	47	41.282	62.920	57.942	0.00	0.00
ATOM	728	CD	GLU	X	47	40.636	64.709	58.981	0.00	0.00
ATOM	729	OE1	GLU	X	47	39.702	65.518	59.081	0.00	0.00
ATOM	730	OE2	GLU	X	47	41.502	64.692	59.859	0.00	0.00
ATOM	731	C	GLU	X	47	41.809	64.612	54.048	0.00	0.00
ATOM	732	O	GLU	X	47	43.017	64.620	53.757	0.00	0.00
ATOM	733	N	PRO	X	48	40.914	65.368	53.380	0.00	0.00
ATOM	734	CD	PRO	X	48	39.556	65.583	53.744	0.00	0.00
ATOM	735	HD2	PRO	X	48	39.475	65.842	54.800	0.00	0.00
ATOM	736	HD3	PRO	X	48	38.970	64.714	53.445	0.00	0.00
ATOM	737	CG	PRO	X	48	39.059	66.838	52.918	0.00	0.00
ATOM	738	HG2	PRO	X	48	39.341	67.773	53.402	0.00	0.00

ATOM	739	HG3	PRO	X	48	38.027	66.911	52.575	0.00	0.00
ATOM	740	CB	PRO	X	48	39.905	66.780	51.666	0.00	0.00
ATOM	741	HB2	PRO	X	48	40.128	67.763	51.252	0.00	0.00
ATOM	742	HB3	PRO	X	48	39.360	66.133	50.978	0.00	0.00
ATOM	743	CA	PRO	X	48	41.211	66.153	52.200	0.00	0.00
ATOM	744	HA	PRO	X	48	41.719	65.610	51.403	0.00	0.00
ATOM	745	C	PRO	X	48	42.201	67.231	52.689	0.00	0.00
ATOM	746	O	PRO	X	48	42.332	67.518	53.896	0.00	0.00
ATOM	747	N	LYS	X	49	42.941	67.831	51.815	0.00	0.00
ATOM	748	H	LYS	X	49	42.738	67.695	50.835	0.00	0.00
ATOM	749	CA	LYS	X	49	44.025	68.814	52.064	0.00	0.00
ATOM	750	HA	LYS	X	49	44.653	68.372	52.837	0.00	0.00
ATOM	751	CB	LYS	X	49	44.887	68.843	50.771	0.00	0.00
ATOM	752	HB2	LYS	X	49	45.384	67.903	50.531	0.00	0.00
ATOM	753	HB3	LYS	X	49	44.218	69.080	49.943	0.00	0.00
ATOM	754	CG	LYS	X	49	45.925	69.915	50.728	0.00	0.00
ATOM	755	HG2	LYS	X	49	46.258	69.944	49.691	0.00	0.00
ATOM	756	HG3	LYS	X	49	45.395	70.859	50.857	0.00	0.00
ATOM	757	CD	LYS	X	49	47.247	69.888	51.564	0.00	0.00
ATOM	758	HD2	LYS	X	49	46.942	69.990	52.606	0.00	0.00
ATOM	759	HD3	LYS	X	49	47.928	69.053	51.402	0.00	0.00
ATOM	760	CE	LYS	X	49	48.136	71.059	51.218	0.00	0.00
ATOM	761	HE2	LYS	X	49	48.522	70.942	50.205	0.00	0.00
ATOM	762	HE3	LYS	X	49	47.543	71.968	51.322	0.00	0.00
ATOM	763	NZ	LYS	X	49	49.305	71.095	52.124	0.00	0.00
ATOM	764	HZ1	LYS	X	49	49.847	71.931	51.955	0.00	0.00
ATOM	765	HZ2	LYS	X	49	49.085	71.074	53.109	0.00	0.00
ATOM	766	HZ3	LYS	X	49	49.901	70.285	52.034	0.00	0.00
ATOM	767	C	LYS	X	49	43.523	70.195	52.498	0.00	0.00
ATOM	768	O	LYS	X	49	42.598	70.756	51.974	0.00	0.00
ATOM	769	N	GLN	X	50	44.195	70.816	53.466	0.00	0.00
ATOM	770	H	GLN	X	50	44.915	70.335	53.985	0.00	0.00
ATOM	771	CA	GLN	X	50	43.963	72.191	53.914	0.00	0.00
ATOM	772	HA	GLN	X	50	42.902	72.333	54.118	0.00	0.00
ATOM	773	CB	GLN	X	50	44.631	72.492	55.246	0.00	0.00
ATOM	774	HB2	GLN	X	50	44.325	71.652	55.870	0.00	0.00
ATOM	775	HB3	GLN	X	50	45.691	72.318	55.062	0.00	0.00
ATOM	776	CG	GLN	X	50	44.218	73.809	55.946	0.00	0.00
ATOM	777	HG2	GLN	X	50	44.252	74.689	55.303	0.00	0.00
ATOM	778	HG3	GLN	X	50	43.166	73.878	56.223	0.00	0.00
ATOM	779	CD	GLN	X	50	45.068	74.088	57.157	0.00	0.00
ATOM	780	OE1	GLN	X	50	44.853	73.787	58.323	0.00	0.00
ATOM	781	NE2	GLN	X	50	46.202	74.668	56.939	0.00	0.00
ATOM	782	HE21	GLN	X	50	46.830	74.746	57.726	0.00	0.00
ATOM	783	HE22	GLN	X	50	46.399	75.047	56.024	0.00	0.00
ATOM	784	C	GLN	X	50	44.288	73.177	52.791	0.00	0.00
ATOM	785	O	GLN	X	50	45.452	73.171	52.349	0.00	0.00
ATOM	786	N	PRO	X	51	43.335	73.957	52.265	0.00	0.00
ATOM	787	CD	PRO	X	51	41.962	74.190	52.800	0.00	0.00
ATOM	788	HD2	PRO	X	51	41.924	74.536	53.833	0.00	0.00
ATOM	789	HD3	PRO	X	51	41.398	73.325	52.453	0.00	0.00
ATOM	790	CG	PRO	X	51	41.376	75.401	52.033	0.00	0.00
ATOM	791	HG2	PRO	X	51	41.616	76.312	52.583	0.00	0.00
ATOM	792	HG3	PRO	X	51	40.303	75.328	51.854	0.00	0.00
ATOM	793	CB	PRO	X	51	42.122	75.329	50.705	0.00	0.00
ATOM	794	HB2	PRO	X	51	42.197	76.262	50.146	0.00	0.00
ATOM	795	HB3	PRO	X	51	41.565	74.641	50.070	0.00	0.00
ATOM	796	CA	PRO	X	51	43.545	74.820	51.111	0.00	0.00
ATOM	797	HA	PRO	X	51	43.980	74.210	50.320	0.00	0.00
ATOM	798	C	PRO	X	51	44.359	76.064	51.409	0.00	0.00
ATOM	799	O	PRO	X	51	44.624	76.520	52.508	0.00	0.00
ATOM	800	N	TRP	X	52	44.968	76.593	50.317	0.00	0.00
ATOM	801	H	TRP	X	52	44.702	76.139	49.455	0.00	0.00
ATOM	802	CA	TRP	X	52	46.034	77.585	50.331	0.00	0.00
ATOM	803	HA	TRP	X	52	46.188	77.965	51.341	0.00	0.00
ATOM	804	CB	TRP	X	52	47.330	76.783	50.002	0.00	0.00
ATOM	805	HB2	TRP	X	52	48.199	77.381	50.279	0.00	0.00
ATOM	806	HB3	TRP	X	52	47.360	75.834	50.536	0.00	0.00
ATOM	807	CG	TRP	X	52	47.363	76.323	48.549	0.00	0.00
ATOM	808	CD1	TRP	X	52	47.927	77.033	47.538	0.00	0.00

ATOM	809	HD1	TRP	X	52	48.277	78.053	47.603	0.00	0.00
ATOM	810	NE1	TRP	X	52	47.640	76.370	46.387	0.00	0.00
ATOM	811	HE1	TRP	X	52	48.055	76.679	45.519	0.00	0.00
ATOM	812	CE2	TRP	X	52	46.911	75.205	46.577	0.00	0.00
ATOM	813	CZ2	TRP	X	52	46.503	74.166	45.746	0.00	0.00
ATOM	814	HZ2	TRP	X	52	46.636	74.224	44.676	0.00	0.00
ATOM	815	CH2	TRP	X	52	45.983	72.925	46.218	0.00	0.00
ATOM	816	HH2	TRP	X	52	45.819	72.056	45.598	0.00	0.00
ATOM	817	CZ3	TRP	X	52	46.085	72.708	47.590	0.00	0.00
ATOM	818	HZ3	TRP	X	52	45.997	71.727	48.033	0.00	0.00
ATOM	819	CE3	TRP	X	52	46.333	73.807	48.435	0.00	0.00
ATOM	820	HE3	TRP	X	52	46.299	73.632	49.500	0.00	0.00
ATOM	821	CD2	TRP	X	52	46.873	75.062	47.969	0.00	0.00
ATOM	822	C	TRP	X	52	45.811	78.820	49.426	0.00	0.00
ATOM	823	O	TRP	X	52	45.126	78.625	48.478	0.00	0.00
ATOM	824	N	SER	X	53	46.472	79.959	49.643	0.00	0.00
ATOM	825	H	SER	X	53	47.128	79.991	50.410	0.00	0.00
ATOM	826	CA	SER	X	53	46.365	81.119	48.769	0.00	0.00
ATOM	827	HA	SER	X	53	45.437	81.180	48.201	0.00	0.00
ATOM	828	CB	SER	X	53	46.265	82.396	49.592	0.00	0.00
ATOM	829	HB2	SER	X	53	47.236	82.626	50.031	0.00	0.00
ATOM	830	HB3	SER	X	53	45.975	83.238	48.963	0.00	0.00
ATOM	831	OG	SER	X	53	45.281	82.221	50.627	0.00	0.00
ATOM	832	HG	SER	X	53	45.529	81.445	51.134	0.00	0.00
ATOM	833	C	SER	X	53	47.515	81.166	47.726	0.00	0.00
ATOM	834	O	SER	X	53	48.635	80.732	47.975	0.00	0.00
ATOM	835	N	GLY	X	54	47.342	81.822	46.515	0.00	0.00
ATOM	836	H	GLY	X	54	46.431	82.224	46.348	0.00	0.00
ATOM	837	CA	GLY	X	54	48.415	81.949	45.553	0.00	0.00
ATOM	838	HA2	GLY	X	54	48.081	82.699	44.852	0.00	0.00
ATOM	839	HA3	GLY	X	54	49.270	82.380	46.005	0.00	0.00
ATOM	840	C	GLY	X	54	48.815	80.686	44.827	0.00	0.00
ATOM	841	O	GLY	X	54	48.151	79.672	44.906	0.00	0.00
ATOM	842	N	VAL	X	55	49.939	80.679	44.136	0.00	0.00
ATOM	843	H	VAL	X	55	50.573	81.449	44.295	0.00	0.00
ATOM	844	CA	VAL	X	55	50.427	79.465	43.373	0.00	0.00
ATOM	845	HA	VAL	X	55	49.565	78.938	42.964	0.00	0.00
ATOM	846	CB	VAL	X	55	51.285	79.738	42.186	0.00	0.00
ATOM	847	HB	VAL	X	55	50.629	80.264	41.493	0.00	0.00
ATOM	848	CG1	VAL	X	55	52.539	80.644	42.361	0.00	0.00
ATOM	849	HG11	VAL	X	55	53.067	80.698	41.408	0.00	0.00
ATOM	850	HG12	VAL	X	55	52.173	81.639	42.616	0.00	0.00
ATOM	851	HG13	VAL	X	55	53.343	80.203	42.950	0.00	0.00
ATOM	852	CG2	VAL	X	55	51.804	78.514	41.475	0.00	0.00
ATOM	853	HG21	VAL	X	55	52.457	77.905	42.100	0.00	0.00
ATOM	854	HG22	VAL	X	55	50.977	77.855	41.210	0.00	0.00
ATOM	855	HG23	VAL	X	55	52.333	78.887	40.598	0.00	0.00
ATOM	856	C	VAL	X	55	51.158	78.533	44.360	0.00	0.00
ATOM	857	O	VAL	X	55	52.070	79.039	45.046	0.00	0.00
ATOM	858	N	VAL	X	56	50.886	77.223	44.453	0.00	0.00
ATOM	859	H	VAL	X	56	50.097	76.878	43.926	0.00	0.00
ATOM	860	CA	VAL	X	56	51.774	76.220	45.111	0.00	0.00
ATOM	861	HA	VAL	X	56	52.616	76.700	45.610	0.00	0.00
ATOM	862	CB	VAL	X	56	51.153	75.281	46.235	0.00	0.00
ATOM	863	HB	VAL	X	56	50.125	75.042	45.966	0.00	0.00
ATOM	864	CG1	VAL	X	56	51.737	73.904	46.447	0.00	0.00
ATOM	865	HG11	VAL	X	56	52.811	73.965	46.624	0.00	0.00
ATOM	866	HG12	VAL	X	56	51.258	73.404	47.289	0.00	0.00
ATOM	867	HG13	VAL	X	56	51.609	73.235	45.596	0.00	0.00
ATOM	868	CG2	VAL	X	56	51.198	76.127	47.549	0.00	0.00
ATOM	869	HG21	VAL	X	56	50.702	77.092	47.448	0.00	0.00
ATOM	870	HG22	VAL	X	56	50.680	75.621	48.363	0.00	0.00
ATOM	871	HG23	VAL	X	56	52.238	76.338	47.801	0.00	0.00
ATOM	872	C	VAL	X	56	52.463	75.422	44.027	0.00	0.00
ATOM	873	O	VAL	X	56	51.951	75.137	42.962	0.00	0.00
ATOM	874	N	ASP	X	57	53.735	75.005	44.341	0.00	0.00
ATOM	875	H	ASP	X	57	54.074	75.104	45.288	0.00	0.00
ATOM	876	CA	ASP	X	57	54.572	74.189	43.446	0.00	0.00
ATOM	877	HA	ASP	X	57	54.470	74.736	42.508	0.00	0.00
ATOM	878	CB	ASP	X	57	55.944	74.004	44.083	0.00	0.00

ATOM	879	HB2	ASP	X	57	56.155	74.919	44.637	0.00	0.00
ATOM	880	HB3	ASP	X	57	55.965	73.167	44.781	0.00	0.00
ATOM	881	CG	ASP	X	57	56.959	73.724	42.932	0.00	0.00
ATOM	882	OD1	ASP	X	57	56.875	72.636	42.313	0.00	0.00
ATOM	883	OD2	ASP	X	57	57.857	74.586	42.783	0.00	0.00
ATOM	884	C	ASP	X	57	53.955	72.805	43.333	0.00	0.00
ATOM	885	O	ASP	X	57	53.484	72.202	44.220	0.00	0.00
ATOM	886	N	ALA	X	58	54.009	72.378	42.045	0.00	0.00
ATOM	887	H	ALA	X	58	54.375	73.104	41.445	0.00	0.00
ATOM	888	CA	ALA	X	58	53.546	71.089	41.599	0.00	0.00
ATOM	889	HA	ALA	X	58	53.563	70.442	42.476	0.00	0.00
ATOM	890	CB	ALA	X	58	52.082	71.144	41.180	0.00	0.00
ATOM	891	HB1	ALA	X	58	51.840	70.085	41.085	0.00	0.00
ATOM	892	HB2	ALA	X	58	51.572	71.518	42.068	0.00	0.00
ATOM	893	HB3	ALA	X	58	52.072	71.609	40.194	0.00	0.00
ATOM	894	C	ALA	X	58	54.518	70.513	40.504	0.00	0.00
ATOM	895	O	ALA	X	58	54.153	69.604	39.697	0.00	0.00
ATOM	896	N	THR	X	59	55.740	70.969	40.379	0.00	0.00
ATOM	897	H	THR	X	59	56.085	71.400	41.225	0.00	0.00
ATOM	898	CA	THR	X	59	56.858	70.604	39.457	0.00	0.00
ATOM	899	HA	THR	X	59	56.443	70.415	38.467	0.00	0.00
ATOM	900	CB	THR	X	59	57.896	71.693	39.368	0.00	0.00
ATOM	901	HB	THR	X	59	58.647	71.397	38.635	0.00	0.00
ATOM	902	CG2	THR	X	59	57.337	73.081	38.989	0.00	0.00
ATOM	903	HG21	THR	X	59	56.337	73.021	38.559	0.00	0.00
ATOM	904	HG22	THR	X	59	57.200	73.714	39.866	0.00	0.00
ATOM	905	HG23	THR	X	59	58.000	73.498	38.231	0.00	0.00
ATOM	906	OG1	THR	X	59	58.516	71.781	40.626	0.00	0.00
ATOM	907	HG1	THR	X	59	57.870	72.258	41.152	0.00	0.00
ATOM	908	C	THR	X	59	57.600	69.322	39.777	0.00	0.00
ATOM	909	O	THR	X	59	58.129	68.752	38.847	0.00	0.00
ATOM	910	N	THR	X	60	57.488	68.841	41.038	0.00	0.00
ATOM	911	H	THR	X	60	56.983	69.282	41.793	0.00	0.00
ATOM	912	CA	THR	X	60	58.179	67.535	41.477	0.00	0.00
ATOM	913	HA	THR	X	60	58.244	66.866	40.619	0.00	0.00
ATOM	914	CB	THR	X	60	59.622	67.894	41.699	0.00	0.00
ATOM	915	HB	THR	X	60	59.978	68.463	40.840	0.00	0.00
ATOM	916	CG2	THR	X	60	59.886	68.703	42.945	0.00	0.00
ATOM	917	HG21	THR	X	60	60.920	68.606	43.275	0.00	0.00
ATOM	918	HG22	THR	X	60	59.695	69.739	42.665	0.00	0.00
ATOM	919	HG23	THR	X	60	59.245	68.279	43.717	0.00	0.00
ATOM	920	OG1	THR	X	60	60.384	66.703	41.700	0.00	0.00
ATOM	921	HG1	THR	X	60	61.287	66.819	42.005	0.00	0.00
ATOM	922	C	THR	X	60	57.519	66.729	42.541	0.00	0.00
ATOM	923	O	THR	X	60	56.636	67.301	43.213	0.00	0.00
ATOM	924	N	PHE	X	61	57.937	65.471	42.710	0.00	0.00
ATOM	925	H	PHE	X	61	58.783	65.215	42.221	0.00	0.00
ATOM	926	CA	PHE	X	61	57.207	64.477	43.418	0.00	0.00
ATOM	927	HA	PHE	X	61	56.130	64.646	43.411	0.00	0.00
ATOM	928	CB	PHE	X	61	57.642	63.110	42.905	0.00	0.00
ATOM	929	HB2	PHE	X	61	58.707	63.025	43.119	0.00	0.00
ATOM	930	HB3	PHE	X	61	57.142	62.338	43.490	0.00	0.00
ATOM	931	CG	PHE	X	61	57.469	62.802	41.543	0.00	0.00
ATOM	932	CD1	PHE	X	61	56.303	62.124	41.172	0.00	0.00
ATOM	933	HD1	PHE	X	61	55.536	61.916	41.903	0.00	0.00
ATOM	934	CE1	PHE	X	61	56.126	61.732	39.821	0.00	0.00
ATOM	935	HE1	PHE	X	61	55.243	61.207	39.487	0.00	0.00
ATOM	936	CZ	PHE	X	61	57.046	62.161	38.797	0.00	0.00
ATOM	937	HZ	PHE	X	61	56.950	61.986	37.736	0.00	0.00
ATOM	938	CE2	PHE	X	61	58.202	62.822	39.255	0.00	0.00
ATOM	939	HE2	PHE	X	61	58.933	63.059	38.497	0.00	0.00
ATOM	940	CD2	PHE	X	61	58.441	63.171	40.581	0.00	0.00
ATOM	941	HD2	PHE	X	61	59.360	63.656	40.874	0.00	0.00
ATOM	942	C	PHE	X	61	57.623	64.728	44.893	0.00	0.00
ATOM	943	O	PHE	X	61	58.814	64.949	45.242	0.00	0.00
ATOM	944	N	GLN	X	62	56.566	64.583	45.731	0.00	0.00
ATOM	945	H	GLN	X	62	55.676	64.240	45.400	0.00	0.00
ATOM	946	CA	GLN	X	62	56.665	64.755	47.149	0.00	0.00
ATOM	947	HA	GLN	X	62	57.509	65.343	47.511	0.00	0.00
ATOM	948	CB	GLN	X	62	55.447	65.497	47.773	0.00	0.00

ATOM	949	HB2	GLN	X	62	54.638	64.824	47.488	0.00	0.00
ATOM	950	HB3	GLN	X	62	55.668	65.600	48.836	0.00	0.00
ATOM	951	CG	GLN	X	62	55.298	66.865	47.172	0.00	0.00
ATOM	952	HG2	GLN	X	62	55.037	66.777	46.117	0.00	0.00
ATOM	953	HG3	GLN	X	62	54.522	67.425	47.695	0.00	0.00
ATOM	954	CD	GLN	X	62	56.513	67.800	47.337	0.00	0.00
ATOM	955	OE1	GLN	X	62	57.209	67.817	48.356	0.00	0.00
ATOM	956	NE2	GLN	X	62	56.839	68.514	46.322	0.00	0.00
ATOM	957	HE21	GLN	X	62	57.692	69.055	46.311	0.00	0.00
ATOM	958	HE22	GLN	X	62	56.312	68.454	45.463	0.00	0.00
ATOM	959	C	GLN	X	62	56.993	63.338	47.724	0.00	0.00
ATOM	960	O	GLN	X	62	57.212	62.356	46.957	0.00	0.00
ATOM	961	N	SER	X	63	57.149	63.260	49.019	0.00	0.00
ATOM	962	H	SER	X	63	57.061	64.105	49.564	0.00	0.00
ATOM	963	CA	SER	X	63	57.425	61.988	49.680	0.00	0.00
ATOM	964	HA	SER	X	63	58.395	61.685	49.285	0.00	0.00
ATOM	965	CB	SER	X	63	57.747	62.242	51.187	0.00	0.00
ATOM	966	HB2	SER	X	63	57.637	61.337	51.785	0.00	0.00
ATOM	967	HB3	SER	X	63	58.793	62.520	51.318	0.00	0.00
ATOM	968	OG	SER	X	63	57.062	63.314	51.826	0.00	0.00
ATOM	969	HG	SER	X	63	56.287	63.005	52.301	0.00	0.00
ATOM	970	C	SER	X	63	56.438	60.810	49.447	0.00	0.00
ATOM	971	O	SER	X	63	55.240	61.025	49.227	0.00	0.00
ATOM	972	N	VAL	X	64	56.934	59.536	49.400	0.00	0.00
ATOM	973	H	VAL	X	64	57.909	59.352	49.593	0.00	0.00
ATOM	974	CA	VAL	X	64	56.117	58.374	49.360	0.00	0.00
ATOM	975	HA	VAL	X	64	55.119	58.728	49.101	0.00	0.00
ATOM	976	CB	VAL	X	64	56.571	57.449	48.258	0.00	0.00
ATOM	977	HB	VAL	X	64	56.803	57.998	47.346	0.00	0.00
ATOM	978	CG1	VAL	X	64	57.915	56.755	48.581	0.00	0.00
ATOM	979	HG11	VAL	X	64	58.488	57.183	49.404	0.00	0.00
ATOM	980	HG12	VAL	X	64	57.746	55.734	48.924	0.00	0.00
ATOM	981	HG13	VAL	X	64	58.443	56.694	47.630	0.00	0.00
ATOM	982	CG2	VAL	X	64	55.448	56.584	47.724	0.00	0.00
ATOM	983	HG21	VAL	X	64	54.500	57.118	47.666	0.00	0.00
ATOM	984	HG22	VAL	X	64	55.709	56.215	46.731	0.00	0.00
ATOM	985	HG23	VAL	X	64	55.431	55.701	48.362	0.00	0.00
ATOM	986	C	VAL	X	64	56.108	57.712	50.743	0.00	0.00
ATOM	987	O	VAL	X	64	56.985	57.923	51.621	0.00	0.00
ATOM	988	N	CYX	X	65	55.059	56.938	50.907	0.00	0.00
ATOM	989	H	CYX	X	65	54.395	56.728	50.176	0.00	0.00
ATOM	990	CA	CYX	X	65	54.821	56.374	52.279	0.00	0.00
ATOM	991	HA	CYX	X	65	54.806	57.143	53.052	0.00	0.00
ATOM	992	CB	CYX	X	65	53.426	55.676	52.293	0.00	0.00
ATOM	993	HB2	CYX	X	65	53.434	54.825	51.612	0.00	0.00
ATOM	994	HB3	CYX	X	65	53.113	55.395	53.299	0.00	0.00
ATOM	995	SG	CYX	X	65	52.120	56.692	51.632	0.00	0.00
ATOM	996	C	CYX	X	65	55.873	55.376	52.806	0.00	0.00
ATOM	997	O	CYX	X	65	56.764	54.970	52.089	0.00	0.00
ATOM	998	N	TYR	X	66	55.815	55.036	54.044	0.00	0.00
ATOM	999	H	TYR	X	66	55.107	55.427	54.648	0.00	0.00
ATOM	1000	CA	TYR	X	66	56.808	54.194	54.684	0.00	0.00
ATOM	1001	HA	TYR	X	66	57.807	54.445	54.325	0.00	0.00
ATOM	1002	CB	TYR	X	66	56.696	54.293	56.266	0.00	0.00
ATOM	1003	HB2	TYR	X	66	55.936	55.024	56.540	0.00	0.00
ATOM	1004	HB3	TYR	X	66	56.396	53.299	56.598	0.00	0.00
ATOM	1005	CG	TYR	X	66	58.032	54.650	56.901	0.00	0.00
ATOM	1006	CD1	TYR	X	66	58.320	55.989	57.122	0.00	0.00
ATOM	1007	HD1	TYR	X	66	57.600	56.760	56.890	0.00	0.00
ATOM	1008	CE1	TYR	X	66	59.608	56.334	57.572	0.00	0.00
ATOM	1009	HE1	TYR	X	66	59.947	57.340	57.769	0.00	0.00
ATOM	1010	CZ	TYR	X	66	60.497	55.302	57.923	0.00	0.00
ATOM	1011	OH	TYR	X	66	61.761	55.616	58.398	0.00	0.00
ATOM	1012	HH	TYR	X	66	61.972	56.550	58.331	0.00	0.00
ATOM	1013	CE2	TYR	X	66	60.240	53.913	57.681	0.00	0.00
ATOM	1014	HE2	TYR	X	66	60.972	53.138	57.856	0.00	0.00
ATOM	1015	CD2	TYR	X	66	58.919	53.632	57.223	0.00	0.00
ATOM	1016	HD2	TYR	X	66	58.665	52.594	57.068	0.00	0.00
ATOM	1017	C	TYR	X	66	56.628	52.709	54.188	0.00	0.00
ATOM	1018	O	TYR	X	66	55.476	52.283	54.058	0.00	0.00

ATOM	1019	N	GLN	X	67	57.702	51.911	53.898	0.00	0.00
ATOM	1020	H	GLN	X	67	58.642	52.177	54.155	0.00	0.00
ATOM	1021	CA	GLN	X	67	57.574	50.553	53.293	0.00	0.00
ATOM	1022	HA	GLN	X	67	56.669	50.040	53.618	0.00	0.00
ATOM	1023	CB	GLN	X	67	57.405	50.780	51.742	0.00	0.00
ATOM	1024	HB2	GLN	X	67	57.672	49.818	51.304	0.00	0.00
ATOM	1025	HB3	GLN	X	67	56.353	51.062	51.701	0.00	0.00
ATOM	1026	CG	GLN	X	67	58.220	51.788	50.983	0.00	0.00
ATOM	1027	HG2	GLN	X	67	58.271	52.646	51.652	0.00	0.00
ATOM	1028	HG3	GLN	X	67	59.215	51.368	50.838	0.00	0.00
ATOM	1029	CD	GLN	X	67	57.578	52.169	49.664	0.00	0.00
ATOM	1030	OE1	GLN	X	67	57.616	51.468	48.691	0.00	0.00
ATOM	1031	NE2	GLN	X	67	57.018	53.349	49.612	0.00	0.00
ATOM	1032	HE21	GLN	X	67	56.541	53.596	48.757	0.00	0.00
ATOM	1033	HE22	GLN	X	67	56.873	53.816	50.496	0.00	0.00
ATOM	1034	C	GLN	X	67	58.771	49.657	53.518	0.00	0.00
ATOM	1035	O	GLN	X	67	59.772	50.204	54.009	0.00	0.00
ATOM	1036	N	TYR	X	68	58.661	48.360	53.255	0.00	0.00
ATOM	1037	H	TYR	X	68	57.826	47.877	52.956	0.00	0.00
ATOM	1038	CA	TYR	X	68	59.811	47.464	53.367	0.00	0.00
ATOM	1039	HA	TYR	X	68	60.423	47.633	54.254	0.00	0.00
ATOM	1040	CB	TYR	X	68	59.222	46.052	53.486	0.00	0.00
ATOM	1041	HB2	TYR	X	68	58.531	45.922	54.319	0.00	0.00
ATOM	1042	HB3	TYR	X	68	58.673	45.886	52.559	0.00	0.00
ATOM	1043	CG	TYR	X	68	60.297	45.045	53.722	0.00	0.00
ATOM	1044	CD1	TYR	X	68	60.980	45.053	54.958	0.00	0.00
ATOM	1045	HD1	TYR	X	68	60.815	45.867	55.649	0.00	0.00
ATOM	1046	CE1	TYR	X	68	61.879	43.989	55.220	0.00	0.00
ATOM	1047	HE1	TYR	X	68	62.308	43.984	56.211	0.00	0.00
ATOM	1048	CZ	TYR	X	68	62.211	43.028	54.260	0.00	0.00
ATOM	1049	OH	TYR	X	68	63.209	42.158	54.541	0.00	0.00
ATOM	1050	HH	TYR	X	68	63.502	42.400	55.422	0.00	0.00
ATOM	1051	CE2	TYR	X	68	61.643	43.144	52.972	0.00	0.00
ATOM	1052	HE2	TYR	X	68	62.028	42.521	52.179	0.00	0.00
ATOM	1053	CD2	TYR	X	68	60.617	44.075	52.731	0.00	0.00
ATOM	1054	HD2	TYR	X	68	60.079	44.239	51.809	0.00	0.00
ATOM	1055	C	TYR	X	68	60.737	47.619	52.117	0.00	0.00
ATOM	1056	O	TYR	X	68	60.304	47.546	50.988	0.00	0.00
ATOM	1057	N	VAL	X	69	62.067	47.792	52.261	0.00	0.00
ATOM	1058	H	VAL	X	69	62.420	47.948	53.194	0.00	0.00
ATOM	1059	CA	VAL	X	69	63.042	48.246	51.290	0.00	0.00
ATOM	1060	HA	VAL	X	69	62.475	48.259	50.359	0.00	0.00
ATOM	1061	CB	VAL	X	69	63.621	49.599	51.633	0.00	0.00
ATOM	1062	HB	VAL	X	69	64.202	49.854	50.746	0.00	0.00
ATOM	1063	CG1	VAL	X	69	62.466	50.630	51.498	0.00	0.00
ATOM	1064	HG11	VAL	X	69	61.791	50.358	50.686	0.00	0.00
ATOM	1065	HG12	VAL	X	69	61.836	50.710	52.383	0.00	0.00
ATOM	1066	HG13	VAL	X	69	62.899	51.605	51.274	0.00	0.00
ATOM	1067	CG2	VAL	X	69	64.371	49.613	53.007	0.00	0.00
ATOM	1068	HG21	VAL	X	69	63.622	49.491	53.791	0.00	0.00
ATOM	1069	HG22	VAL	X	69	64.986	48.735	53.204	0.00	0.00
ATOM	1070	HG23	VAL	X	69	65.018	50.489	53.034	0.00	0.00
ATOM	1071	C	VAL	X	69	64.227	47.199	51.132	0.00	0.00
ATOM	1072	O	VAL	X	69	65.080	47.411	50.267	0.00	0.00
ATOM	1073	N	ASP	X	70	64.301	46.145	51.941	0.00	0.00
ATOM	1074	H	ASP	X	70	63.613	46.125	52.681	0.00	0.00
ATOM	1075	CA	ASP	X	70	65.321	45.059	51.988	0.00	0.00
ATOM	1076	HA	ASP	X	70	66.245	45.477	51.589	0.00	0.00
ATOM	1077	CB	ASP	X	70	65.460	44.502	53.353	0.00	0.00
ATOM	1078	HB2	ASP	X	70	64.491	44.364	53.832	0.00	0.00
ATOM	1079	HB3	ASP	X	70	65.970	43.539	53.329	0.00	0.00
ATOM	1080	CG	ASP	X	70	66.274	45.499	54.218	0.00	0.00
ATOM	1081	OD1	ASP	X	70	65.701	46.227	55.044	0.00	0.00
ATOM	1082	OD2	ASP	X	70	67.556	45.401	54.144	0.00	0.00
ATOM	1083	C	ASP	X	70	64.968	43.987	51.049	0.00	0.00
ATOM	1084	O	ASP	X	70	63.810	43.564	50.969	0.00	0.00
ATOM	1085	N	THR	X	71	65.926	43.532	50.238	0.00	0.00
ATOM	1086	H	THR	X	71	66.887	43.809	50.379	0.00	0.00
ATOM	1087	CA	THR	X	71	65.708	42.616	49.064	0.00	0.00
ATOM	1088	HA	THR	X	71	64.673	42.276	49.109	0.00	0.00

ATOM	1089	CB	THR	X	71	66.005	43.373	47.759	0.00	0.00
ATOM	1090	HB	THR	X	71	66.024	42.693	46.907	0.00	0.00
ATOM	1091	CG2	THR	X	71	65.092	44.555	47.505	0.00	0.00
ATOM	1092	HG21	THR	X	71	65.346	45.311	48.247	0.00	0.00
ATOM	1093	HG22	THR	X	71	65.298	44.969	46.518	0.00	0.00
ATOM	1094	HG23	THR	X	71	64.028	44.321	47.519	0.00	0.00
ATOM	1095	OG1	THR	X	71	67.354	43.821	47.794	0.00	0.00
ATOM	1096	HG1	THR	X	71	67.479	44.746	48.020	0.00	0.00
ATOM	1097	C	THR	X	71	66.524	41.341	49.066	0.00	0.00
ATOM	1098	O	THR	X	71	67.515	41.196	49.720	0.00	0.00
ATOM	1099	N	LEU	X	72	66.095	40.401	48.218	0.00	0.00
ATOM	1100	H	LEU	X	72	65.388	40.662	47.545	0.00	0.00
ATOM	1101	CA	LEU	X	72	66.789	39.124	47.869	0.00	0.00
ATOM	1102	HA	LEU	X	72	67.148	38.733	48.821	0.00	0.00
ATOM	1103	CB	LEU	X	72	65.812	38.131	47.281	0.00	0.00
ATOM	1104	HB2	LEU	X	72	65.026	38.011	48.026	0.00	0.00
ATOM	1105	HB3	LEU	X	72	65.369	38.577	46.390	0.00	0.00
ATOM	1106	CG	LEU	X	72	66.466	36.766	46.946	0.00	0.00
ATOM	1107	HG	LEU	X	72	67.149	36.933	46.113	0.00	0.00
ATOM	1108	CD1	LEU	X	72	67.278	36.149	48.077	0.00	0.00
ATOM	1109	HD11	LEU	X	72	68.171	36.723	48.327	0.00	0.00
ATOM	1110	HD12	LEU	X	72	66.670	36.067	48.978	0.00	0.00
ATOM	1111	HD13	LEU	X	72	67.457	35.110	47.800	0.00	0.00
ATOM	1112	CD2	LEU	X	72	65.429	35.747	46.476	0.00	0.00
ATOM	1113	HD21	LEU	X	72	64.738	35.466	47.271	0.00	0.00
ATOM	1114	HD22	LEU	X	72	64.898	36.223	45.651	0.00	0.00
ATOM	1115	HD23	LEU	X	72	65.839	34.826	46.062	0.00	0.00
ATOM	1116	C	LEU	X	72	67.977	39.375	46.910	0.00	0.00
ATOM	1117	O	LEU	X	72	68.920	38.660	46.987	0.00	0.00
ATOM	1118	N	TYR	X	73	67.701	40.272	45.929	0.00	0.00
ATOM	1119	H	TYR	X	73	66.777	40.680	45.925	0.00	0.00
ATOM	1120	CA	TYR	X	73	68.578	40.638	44.772	0.00	0.00
ATOM	1121	HA	TYR	X	73	69.482	40.042	44.896	0.00	0.00
ATOM	1122	CB	TYR	X	73	67.802	40.233	43.513	0.00	0.00
ATOM	1123	HB2	TYR	X	73	66.882	40.816	43.535	0.00	0.00
ATOM	1124	HB3	TYR	X	73	68.426	40.553	42.678	0.00	0.00
ATOM	1125	CG	TYR	X	73	67.432	38.716	43.341	0.00	0.00
ATOM	1126	CD1	TYR	X	73	68.541	37.811	43.161	0.00	0.00
ATOM	1127	HD1	TYR	X	73	69.558	38.143	43.312	0.00	0.00
ATOM	1128	CE1	TYR	X	73	68.240	36.438	42.951	0.00	0.00
ATOM	1129	HE1	TYR	X	73	69.066	35.743	42.930	0.00	0.00
ATOM	1130	CZ	TYR	X	73	66.896	36.034	42.841	0.00	0.00
ATOM	1131	OH	TYR	X	73	66.564	34.798	42.501	0.00	0.00
ATOM	1132	HH	TYR	X	73	65.617	34.658	42.563	0.00	0.00
ATOM	1133	CE2	TYR	X	73	65.862	36.947	42.828	0.00	0.00
ATOM	1134	HE2	TYR	X	73	64.887	36.486	42.779	0.00	0.00
ATOM	1135	CD2	TYR	X	73	66.080	38.298	43.187	0.00	0.00
ATOM	1136	HD2	TYR	X	73	65.294	39.026	43.321	0.00	0.00
ATOM	1137	C	TYR	X	73	68.961	42.142	44.867	0.00	0.00
ATOM	1138	O	TYR	X	73	68.608	42.940	43.969	0.00	0.00
ATOM	1139	N	PRO	X	74	69.801	42.578	45.870	0.00	0.00
ATOM	1140	CD	PRO	X	74	70.461	41.748	46.905	0.00	0.00
ATOM	1141	HD2	PRO	X	74	70.931	40.789	46.687	0.00	0.00
ATOM	1142	HD3	PRO	X	74	69.682	41.530	47.636	0.00	0.00
ATOM	1143	CG	PRO	X	74	71.554	42.582	47.523	0.00	0.00
ATOM	1144	HG2	PRO	X	74	72.558	42.466	47.115	0.00	0.00
ATOM	1145	HG3	PRO	X	74	71.500	42.367	48.590	0.00	0.00
ATOM	1146	CB	PRO	X	74	71.064	44.001	47.278	0.00	0.00
ATOM	1147	HB2	PRO	X	74	71.916	44.680	47.302	0.00	0.00
ATOM	1148	HB3	PRO	X	74	70.394	44.405	48.037	0.00	0.00
ATOM	1149	CA	PRO	X	74	70.309	43.911	45.972	0.00	0.00
ATOM	1150	HA	PRO	X	74	69.488	44.626	46.023	0.00	0.00
ATOM	1151	C	PRO	X	74	71.129	44.318	44.785	0.00	0.00
ATOM	1152	O	PRO	X	74	72.133	43.766	44.400	0.00	0.00
ATOM	1153	N	GLY	X	75	70.747	45.466	44.231	0.00	0.00
ATOM	1154	H	GLY	X	75	69.934	45.910	44.634	0.00	0.00
ATOM	1155	CA	GLY	X	75	71.589	46.236	43.347	0.00	0.00
ATOM	1156	HA2	GLY	X	75	71.258	47.257	43.434	0.00	0.00
ATOM	1157	HA3	GLY	X	75	72.611	46.091	43.715	0.00	0.00
ATOM	1158	C	GLY	X	75	71.533	45.797	41.852	0.00	0.00

ATOM	1159	O	GLY	X	75	72.184	46.472	41.052	0.00	0.00
ATOM	1160	N	PHE	X	76	70.900	44.638	41.543	0.00	0.00
ATOM	1161	H	PHE	X	76	70.567	44.260	42.418	0.00	0.00
ATOM	1162	CA	PHE	X	76	70.427	44.044	40.260	0.00	0.00
ATOM	1163	HA	PHE	X	76	71.311	43.737	39.702	0.00	0.00
ATOM	1164	CB	PHE	X	76	69.628	42.734	40.578	0.00	0.00
ATOM	1165	HB2	PHE	X	76	70.331	42.072	41.084	0.00	0.00
ATOM	1166	HB3	PHE	X	76	68.894	42.974	41.347	0.00	0.00
ATOM	1167	CG	PHE	X	76	69.126	41.947	39.444	0.00	0.00
ATOM	1168	CD1	PHE	X	76	70.071	41.561	38.480	0.00	0.00
ATOM	1169	HD1	PHE	X	76	71.076	41.928	38.628	0.00	0.00
ATOM	1170	CE1	PHE	X	76	69.631	40.886	37.326	0.00	0.00
ATOM	1171	HE1	PHE	X	76	70.333	40.731	36.520	0.00	0.00
ATOM	1172	CZ	PHE	X	76	68.296	40.572	37.144	0.00	0.00
ATOM	1173	HZ	PHE	X	76	68.042	39.998	36.265	0.00	0.00
ATOM	1174	CE2	PHE	X	76	67.329	41.065	38.095	0.00	0.00
ATOM	1175	HE2	PHE	X	76	66.270	40.864	38.029	0.00	0.00
ATOM	1176	CD2	PHE	X	76	67.770	41.731	39.283	0.00	0.00
ATOM	1177	HD2	PHE	X	76	67.099	41.933	40.105	0.00	0.00
ATOM	1178	C	PHE	X	76	69.540	45.066	39.516	0.00	0.00
ATOM	1179	O	PHE	X	76	68.585	45.585	40.101	0.00	0.00
ATOM	1180	N	GLU	X	77	69.820	45.297	38.212	0.00	0.00
ATOM	1181	H	GLU	X	77	70.619	44.820	37.821	0.00	0.00
ATOM	1182	CA	GLU	X	77	69.099	46.238	37.304	0.00	0.00
ATOM	1183	HA	GLU	X	77	69.368	47.200	37.739	0.00	0.00
ATOM	1184	CB	GLU	X	77	69.729	46.208	35.915	0.00	0.00
ATOM	1185	HB2	GLU	X	77	70.807	46.049	35.952	0.00	0.00
ATOM	1186	HB3	GLU	X	77	69.357	45.331	35.385	0.00	0.00
ATOM	1187	CG	GLU	X	77	69.444	47.422	35.062	0.00	0.00
ATOM	1188	HG2	GLU	X	77	68.375	47.519	34.874	0.00	0.00
ATOM	1189	HG3	GLU	X	77	69.930	48.270	35.545	0.00	0.00
ATOM	1190	CD	GLU	X	77	70.168	47.276	33.735	0.00	0.00
ATOM	1191	OE1	GLU	X	77	69.382	47.179	32.746	0.00	0.00
ATOM	1192	OE2	GLU	X	77	71.346	47.707	33.592	0.00	0.00
ATOM	1193	C	GLU	X	77	67.557	45.982	37.185	0.00	0.00
ATOM	1194	O	GLU	X	77	66.787	46.953	36.980	0.00	0.00
ATOM	1195	N	GLY	X	78	67.150	44.707	37.339	0.00	0.00
ATOM	1196	H	GLY	X	78	67.796	43.982	37.614	0.00	0.00
ATOM	1197	CA	GLY	X	78	65.768	44.277	37.432	0.00	0.00
ATOM	1198	HA2	GLY	X	78	64.935	44.841	36.844	0.00	0.00
ATOM	1199	HA3	GLY	X	78	65.773	43.240	37.098	0.00	0.00
ATOM	1200	C	GLY	X	78	65.164	44.413	38.802	0.00	0.00
ATOM	1201	O	GLY	X	78	63.972	44.065	38.982	0.00	0.00
ATOM	1202	N	THR	X	79	65.907	44.800	39.825	0.00	0.00
ATOM	1203	H	THR	X	79	66.870	44.991	39.590	0.00	0.00
ATOM	1204	CA	THR	X	79	65.399	45.103	41.165	0.00	0.00
ATOM	1205	HA	THR	X	79	64.413	44.721	41.429	0.00	0.00
ATOM	1206	CB	THR	X	79	66.407	44.565	42.231	0.00	0.00
ATOM	1207	HB	THR	X	79	67.402	44.998	42.136	0.00	0.00
ATOM	1208	CG2	THR	X	79	65.902	44.793	43.668	0.00	0.00
ATOM	1209	HG21	THR	X	79	64.918	44.335	43.757	0.00	0.00
ATOM	1210	HG22	THR	X	79	66.588	44.308	44.363	0.00	0.00
ATOM	1211	HG23	THR	X	79	65.956	45.835	43.985	0.00	0.00
ATOM	1212	OG1	THR	X	79	66.496	43.166	42.019	0.00	0.00
ATOM	1213	HG1	THR	X	79	67.029	42.881	42.765	0.00	0.00
ATOM	1214	C	THR	X	79	65.311	46.620	41.294	0.00	0.00
ATOM	1215	O	THR	X	79	64.302	47.180	41.801	0.00	0.00
ATOM	1216	N	GLU	X	80	66.465	47.259	41.006	0.00	0.00
ATOM	1217	H	GLU	X	80	67.237	46.659	40.755	0.00	0.00
ATOM	1218	CA	GLU	X	80	66.755	48.690	41.169	0.00	0.00
ATOM	1219	HA	GLU	X	80	66.577	49.004	42.197	0.00	0.00
ATOM	1220	CB	GLU	X	80	68.183	49.066	40.743	0.00	0.00
ATOM	1221	HB2	GLU	X	80	68.371	48.567	39.792	0.00	0.00
ATOM	1222	HB3	GLU	X	80	68.153	50.156	40.735	0.00	0.00
ATOM	1223	CG	GLU	X	80	69.250	48.703	41.784	0.00	0.00
ATOM	1224	HG2	GLU	X	80	69.170	47.627	41.939	0.00	0.00
ATOM	1225	HG3	GLU	X	80	70.243	48.997	41.444	0.00	0.00
ATOM	1226	CD	GLU	X	80	69.010	49.467	43.112	0.00	0.00
ATOM	1227	OE1	GLU	X	80	68.321	48.843	43.946	0.00	0.00
ATOM	1228	OE2	GLU	X	80	69.488	50.581	43.277	0.00	0.00

ATOM	1229	C	GLU	X	80	65.723	49.475	40.372	0.00	0.00
ATOM	1230	O	GLU	X	80	65.710	50.715	40.573	0.00	0.00
ATOM	1231	N	MET	X	81	64.954	48.935	39.501	0.00	0.00
ATOM	1232	H	MET	X	81	65.065	47.935	39.418	0.00	0.00
ATOM	1233	CA	MET	X	81	64.011	49.659	38.573	0.00	0.00
ATOM	1234	HA	MET	X	81	64.414	50.663	38.444	0.00	0.00
ATOM	1235	CB	MET	X	81	64.028	48.916	37.155	0.00	0.00
ATOM	1236	HB2	MET	X	81	63.853	49.663	36.381	0.00	0.00
ATOM	1237	HB3	MET	X	81	65.069	48.681	36.934	0.00	0.00
ATOM	1238	CG	MET	X	81	63.045	47.725	37.201	0.00	0.00
ATOM	1239	HG2	MET	X	81	63.338	46.933	37.891	0.00	0.00
ATOM	1240	HG3	MET	X	81	62.015	48.010	37.414	0.00	0.00
ATOM	1241	SD	MET	X	81	63.033	46.913	35.639	0.00	0.00
ATOM	1242	CE	MET	X	81	62.368	48.112	34.466	0.00	0.00
ATOM	1243	HE1	MET	X	81	62.924	49.017	34.710	0.00	0.00
ATOM	1244	HE2	MET	X	81	62.509	47.727	33.456	0.00	0.00
ATOM	1245	HE3	MET	X	81	61.303	48.169	34.691	0.00	0.00
ATOM	1246	C	MET	X	81	62.603	49.912	39.084	0.00	0.00
ATOM	1247	O	MET	X	81	61.848	50.695	38.475	0.00	0.00
ATOM	1248	N	TRP	X	82	62.282	49.281	40.185	0.00	0.00
ATOM	1249	H	TRP	X	82	62.961	48.623	40.540	0.00	0.00
ATOM	1250	CA	TRP	X	82	61.036	49.247	40.964	0.00	0.00
ATOM	1251	HA	TRP	X	82	60.278	49.570	40.250	0.00	0.00
ATOM	1252	CB	TRP	X	82	60.813	47.652	41.183	0.00	0.00
ATOM	1253	HB2	TRP	X	82	61.610	47.358	41.866	0.00	0.00
ATOM	1254	HB3	TRP	X	82	59.832	47.735	41.651	0.00	0.00
ATOM	1255	CG	TRP	X	82	60.742	46.742	39.967	0.00	0.00
ATOM	1256	CD1	TRP	X	82	61.321	45.514	39.795	0.00	0.00
ATOM	1257	HD1	TRP	X	82	61.976	45.041	40.512	0.00	0.00
ATOM	1258	NE1	TRP	X	82	61.151	45.099	38.494	0.00	0.00
ATOM	1259	HE1	TRP	X	82	61.485	44.188	38.213	0.00	0.00
ATOM	1260	CE2	TRP	X	82	60.338	45.901	37.735	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	60.021	45.995	36.388	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	60.127	45.145	35.730	0.00	0.00
ATOM	1263	CH2	TRP	X	82	59.398	47.086	35.843	0.00	0.00
ATOM	1264	HH2	TRP	X	82	59.193	47.085	34.783	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	58.944	48.113	36.762	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	58.263	48.824	36.317	0.00	0.00
ATOM	1267	CE3	TRP	X	82	59.188	48.041	38.172	0.00	0.00
ATOM	1268	HE3	TRP	X	82	58.782	48.830	38.787	0.00	0.00
ATOM	1269	CD2	TRP	X	82	60.009	46.980	38.680	0.00	0.00
ATOM	1270	C	TRP	X	82	61.184	49.973	42.392	0.00	0.00
ATOM	1271	O	TRP	X	82	60.172	50.572	42.824	0.00	0.00
ATOM	1272	N	ASN	X	83	62.394	49.994	42.961	0.00	0.00
ATOM	1273	H	ASN	X	83	63.109	49.409	42.554	0.00	0.00
ATOM	1274	CA	ASN	X	83	62.654	50.677	44.297	0.00	0.00
ATOM	1275	HA	ASN	X	83	61.952	50.200	44.982	0.00	0.00
ATOM	1276	CB	ASN	X	83	64.082	50.331	44.802	0.00	0.00
ATOM	1277	HB2	ASN	X	83	64.213	49.249	44.792	0.00	0.00
ATOM	1278	HB3	ASN	X	83	64.845	50.798	44.178	0.00	0.00
ATOM	1279	CG	ASN	X	83	64.302	50.966	46.229	0.00	0.00
ATOM	1280	OD1	ASN	X	83	64.618	52.137	46.326	0.00	0.00
ATOM	1281	ND2	ASN	X	83	63.969	50.208	47.261	0.00	0.00
ATOM	1282	HD21	ASN	X	83	64.093	50.640	48.165	0.00	0.00
ATOM	1283	HD22	ASN	X	83	63.574	49.279	47.283	0.00	0.00
ATOM	1284	C	ASN	X	83	62.389	52.215	44.138	0.00	0.00
ATOM	1285	O	ASN	X	83	62.826	52.865	43.076	0.00	0.00
ATOM	1286	N	PRO	X	84	61.823	52.896	45.153	0.00	0.00
ATOM	1287	CD	PRO	X	84	61.123	52.229	46.181	0.00	0.00
ATOM	1288	HD2	PRO	X	84	61.815	51.772	46.889	0.00	0.00
ATOM	1289	HD3	PRO	X	84	60.474	51.494	45.705	0.00	0.00
ATOM	1290	CG	PRO	X	84	60.247	53.281	46.866	0.00	0.00
ATOM	1291	HG2	PRO	X	84	60.448	53.283	47.938	0.00	0.00
ATOM	1292	HG3	PRO	X	84	59.176	53.190	46.686	0.00	0.00
ATOM	1293	CB	PRO	X	84	60.690	54.624	46.324	0.00	0.00
ATOM	1294	HB2	PRO	X	84	61.311	55.173	47.032	0.00	0.00
ATOM	1295	HB3	PRO	X	84	59.880	55.350	46.251	0.00	0.00
ATOM	1296	CA	PRO	X	84	61.470	54.271	45.022	0.00	0.00
ATOM	1297	HA	PRO	X	84	60.718	54.398	44.242	0.00	0.00
ATOM	1298	C	PRO	X	84	62.618	55.186	44.739	0.00	0.00

ATOM	1299	O	PRO	X	84	63.511	55.261	45.612	0.00	0.00
ATOM	1300	N	ASN	X	85	62.566	55.959	43.653	0.00	0.00
ATOM	1301	H	ASN	X	85	61.853	55.760	42.965	0.00	0.00
ATOM	1302	CA	ASN	X	85	63.437	57.083	43.318	0.00	0.00
ATOM	1303	HA	ASN	X	85	64.429	56.845	43.701	0.00	0.00
ATOM	1304	CB	ASN	X	85	63.476	57.233	41.827	0.00	0.00
ATOM	1305	HB2	ASN	X	85	64.092	58.083	41.535	0.00	0.00
ATOM	1306	HB3	ASN	X	85	63.943	56.368	41.355	0.00	0.00
ATOM	1307	CG	ASN	X	85	62.148	57.649	41.128	0.00	0.00
ATOM	1308	OD1	ASN	X	85	61.089	57.794	41.753	0.00	0.00
ATOM	1309	ND2	ASN	X	85	62.255	58.021	39.887	0.00	0.00
ATOM	1310	HD21	ASN	X	85	61.403	58.362	39.464	0.00	0.00
ATOM	1311	HD22	ASN	X	85	63.118	57.954	39.367	0.00	0.00
ATOM	1312	C	ASN	X	85	63.135	58.426	43.996	0.00	0.00
ATOM	1313	O	ASN	X	85	63.443	59.483	43.482	0.00	0.00
ATOM	1314	N	ARG	X	86	62.587	58.402	45.170	0.00	0.00
ATOM	1315	H	ARG	X	86	62.483	57.496	45.604	0.00	0.00
ATOM	1316	CA	ARG	X	86	61.965	59.472	45.966	0.00	0.00
ATOM	1317	HA	ARG	X	86	62.615	60.342	45.877	0.00	0.00
ATOM	1318	CB	ARG	X	86	60.698	59.948	45.338	0.00	0.00
ATOM	1319	HB2	ARG	X	86	59.977	59.131	45.333	0.00	0.00
ATOM	1320	HB3	ARG	X	86	60.390	60.751	46.008	0.00	0.00
ATOM	1321	CG	ARG	X	86	60.764	60.605	43.960	0.00	0.00
ATOM	1322	HG2	ARG	X	86	61.089	59.992	43.119	0.00	0.00
ATOM	1323	HG3	ARG	X	86	59.740	60.914	43.749	0.00	0.00
ATOM	1324	CD	ARG	X	86	61.735	61.865	43.917	0.00	0.00
ATOM	1325	HD2	ARG	X	86	61.182	62.544	44.566	0.00	0.00
ATOM	1326	HD3	ARG	X	86	62.739	61.697	44.307	0.00	0.00
ATOM	1327	NE	ARG	X	86	62.003	62.312	42.552	0.00	0.00
ATOM	1328	HE	ARG	X	86	61.773	61.711	41.773	0.00	0.00
ATOM	1329	CZ	ARG	X	86	62.219	63.529	42.176	0.00	0.00
ATOM	1330	NH1	ARG	X	86	62.278	64.490	43.071	0.00	0.00
ATOM	1331	HH11	ARG	X	86	62.244	64.263	44.055	0.00	0.00
ATOM	1332	HH12	ARG	X	86	62.670	65.375	42.781	0.00	0.00
ATOM	1333	NH2	ARG	X	86	62.248	63.849	40.909	0.00	0.00
ATOM	1334	HH21	ARG	X	86	62.123	63.232	40.119	0.00	0.00
ATOM	1335	HH22	ARG	X	86	62.413	64.810	40.645	0.00	0.00
ATOM	1336	C	ARG	X	86	61.847	59.080	47.406	0.00	0.00
ATOM	1337	O	ARG	X	86	62.298	57.986	47.753	0.00	0.00
ATOM	1338	N	GLU	X	87	61.419	59.957	48.301	0.00	0.00
ATOM	1339	H	GLU	X	87	60.986	60.802	47.956	0.00	0.00
ATOM	1340	CA	GLU	X	87	61.706	59.988	49.703	0.00	0.00
ATOM	1341	HA	GLU	X	87	62.672	59.536	49.925	0.00	0.00
ATOM	1342	CB	GLU	X	87	61.792	61.477	50.159	0.00	0.00
ATOM	1343	HB2	GLU	X	87	62.415	62.122	49.541	0.00	0.00
ATOM	1344	HB3	GLU	X	87	60.821	61.970	50.109	0.00	0.00
ATOM	1345	CG	GLU	X	87	62.249	61.682	51.594	0.00	0.00
ATOM	1346	HG2	GLU	X	87	61.591	61.076	52.218	0.00	0.00
ATOM	1347	HG3	GLU	X	87	63.246	61.255	51.696	0.00	0.00
ATOM	1348	CD	GLU	X	87	62.363	63.035	52.237	0.00	0.00
ATOM	1349	OE1	GLU	X	87	63.540	63.531	52.273	0.00	0.00
ATOM	1350	OE2	GLU	X	87	61.303	63.528	52.687	0.00	0.00
ATOM	1351	C	GLU	X	87	60.636	59.260	50.502	0.00	0.00
ATOM	1352	O	GLU	X	87	59.453	59.528	50.252	0.00	0.00
ATOM	1353	N	LEU	X	88	61.009	58.395	51.440	0.00	0.00
ATOM	1354	H	LEU	X	88	62.000	58.308	51.612	0.00	0.00
ATOM	1355	CA	LEU	X	88	60.235	57.720	52.477	0.00	0.00
ATOM	1356	HA	LEU	X	88	59.280	57.541	51.983	0.00	0.00
ATOM	1357	CB	LEU	X	88	60.742	56.288	52.871	0.00	0.00
ATOM	1358	HB2	LEU	X	88	61.780	56.311	53.204	0.00	0.00
ATOM	1359	HB3	LEU	X	88	60.100	56.023	53.711	0.00	0.00
ATOM	1360	CG	LEU	X	88	60.574	55.185	51.801	0.00	0.00
ATOM	1361	HG	LEU	X	88	59.528	55.050	51.522	0.00	0.00
ATOM	1362	CD1	LEU	X	88	61.497	55.391	50.549	0.00	0.00
ATOM	1363	HD11	LEU	X	88	61.647	54.531	49.897	0.00	0.00
ATOM	1364	HD12	LEU	X	88	61.247	56.284	49.976	0.00	0.00
ATOM	1365	HD13	LEU	X	88	62.497	55.594	50.933	0.00	0.00
ATOM	1366	CD2	LEU	X	88	60.925	53.840	52.473	0.00	0.00
ATOM	1367	HD21	LEU	X	88	60.574	53.112	51.742	0.00	0.00
ATOM	1368	HD22	LEU	X	88	61.953	53.808	52.835	0.00	0.00

ATOM	1369	HD23	LEU	X	88	60.274	53.830	53.347	0.00	0.00
ATOM	1370	C	LEU	X	88	60.076	58.639	53.707	0.00	0.00
ATOM	1371	O	LEU	X	88	61.041	58.817	54.473	0.00	0.00
ATOM	1372	N	SER	X	89	58.825	58.863	53.905	0.00	0.00
ATOM	1373	H	SER	X	89	58.233	58.728	53.098	0.00	0.00
ATOM	1374	CA	SER	X	89	58.210	59.463	55.106	0.00	0.00
ATOM	1375	HA	SER	X	89	58.790	59.290	56.012	0.00	0.00
ATOM	1376	CB	SER	X	89	58.136	61.015	54.875	0.00	0.00
ATOM	1377	HB2	SER	X	89	59.168	61.305	54.682	0.00	0.00
ATOM	1378	HB3	SER	X	89	57.524	61.240	54.001	0.00	0.00
ATOM	1379	OG	SER	X	89	57.650	61.819	55.894	0.00	0.00
ATOM	1380	HG	SER	X	89	57.822	62.728	55.637	0.00	0.00
ATOM	1381	C	SER	X	89	56.759	58.914	55.280	0.00	0.00
ATOM	1382	O	SER	X	89	56.263	58.172	54.466	0.00	0.00
ATOM	1383	N	GLU	X	90	56.044	59.166	56.425	0.00	0.00
ATOM	1384	H	GLU	X	90	56.518	59.816	57.035	0.00	0.00
ATOM	1385	CA	GLU	X	90	54.585	59.037	56.554	0.00	0.00
ATOM	1386	HA	GLU	X	90	54.341	58.261	55.830	0.00	0.00
ATOM	1387	CB	GLU	X	90	54.076	58.536	57.923	0.00	0.00
ATOM	1388	HB2	GLU	X	90	54.407	59.334	58.589	0.00	0.00
ATOM	1389	HB3	GLU	X	90	52.994	58.466	57.814	0.00	0.00
ATOM	1390	CG	GLU	X	90	54.523	57.234	58.524	0.00	0.00
ATOM	1391	HG2	GLU	X	90	54.548	56.377	57.852	0.00	0.00
ATOM	1392	HG3	GLU	X	90	55.586	57.424	58.671	0.00	0.00
ATOM	1393	CD	GLU	X	90	53.787	57.000	59.866	0.00	0.00
ATOM	1394	OE1	GLU	X	90	52.951	56.077	59.935	0.00	0.00
ATOM	1395	OE2	GLU	X	90	54.272	57.650	60.776	0.00	0.00
ATOM	1396	C	GLU	X	90	53.683	60.230	56.080	0.00	0.00
ATOM	1397	O	GLU	X	90	52.463	60.152	55.864	0.00	0.00
ATOM	1398	N	ASP	X	91	54.238	61.412	55.896	0.00	0.00
ATOM	1399	H	ASP	X	91	55.188	61.480	56.233	0.00	0.00
ATOM	1400	CA	ASP	X	91	53.680	62.471	55.061	0.00	0.00
ATOM	1401	HA	ASP	X	91	52.599	62.517	55.194	0.00	0.00
ATOM	1402	CB	ASP	X	91	54.366	63.819	55.436	0.00	0.00
ATOM	1403	HB2	ASP	X	91	54.166	63.995	56.493	0.00	0.00
ATOM	1404	HB3	ASP	X	91	55.456	63.827	55.432	0.00	0.00
ATOM	1405	CG	ASP	X	91	53.825	64.967	54.668	0.00	0.00
ATOM	1406	OD1	ASP	X	91	52.990	64.759	53.811	0.00	0.00
ATOM	1407	OD2	ASP	X	91	54.178	66.134	54.982	0.00	0.00
ATOM	1408	C	ASP	X	91	53.893	62.078	53.572	0.00	0.00
ATOM	1409	O	ASP	X	91	54.943	62.338	53.021	0.00	0.00
ATOM	1410	N	CYX	X	92	52.862	61.546	52.893	0.00	0.00
ATOM	1411	H	CYX	X	92	51.969	61.396	53.339	0.00	0.00
ATOM	1412	CA	CYX	X	92	52.971	61.047	51.532	0.00	0.00
ATOM	1413	HA	CYX	X	92	53.712	61.609	50.965	0.00	0.00
ATOM	1414	CB	CYX	X	92	53.476	59.640	51.698	0.00	0.00
ATOM	1415	HB2	CYX	X	92	53.618	59.326	50.664	0.00	0.00
ATOM	1416	HB3	CYX	X	92	54.377	59.569	52.308	0.00	0.00
ATOM	1417	SG	CYX	X	92	52.253	58.554	52.532	0.00	0.00
ATOM	1418	C	CYX	X	92	51.779	61.067	50.552	0.00	0.00
ATOM	1419	O	CYX	X	92	52.015	60.636	49.450	0.00	0.00
ATOM	1420	N	LEU	X	93	50.594	61.554	50.905	0.00	0.00
ATOM	1421	H	LEU	X	93	50.511	62.110	51.744	0.00	0.00
ATOM	1422	CA	LEU	X	93	49.440	61.398	50.021	0.00	0.00
ATOM	1423	HA	LEU	X	93	49.654	60.478	49.477	0.00	0.00
ATOM	1424	CB	LEU	X	93	48.101	61.264	50.822	0.00	0.00
ATOM	1425	HB2	LEU	X	93	47.929	62.221	51.315	0.00	0.00
ATOM	1426	HB3	LEU	X	93	47.275	61.040	50.146	0.00	0.00
ATOM	1427	CG	LEU	X	93	48.083	60.099	51.850	0.00	0.00
ATOM	1428	HG	LEU	X	93	48.776	60.442	52.619	0.00	0.00
ATOM	1429	CD1	LEU	X	93	46.765	60.036	52.476	0.00	0.00
ATOM	1430	HD11	LEU	X	93	45.983	59.711	51.791	0.00	0.00
ATOM	1431	HD12	LEU	X	93	46.802	59.409	53.368	0.00	0.00
ATOM	1432	HD13	LEU	X	93	46.502	61.008	52.892	0.00	0.00
ATOM	1433	CD2	LEU	X	93	48.382	58.670	51.287	0.00	0.00
ATOM	1434	HD21	LEU	X	93	48.316	57.978	52.126	0.00	0.00
ATOM	1435	HD22	LEU	X	93	47.573	58.418	50.602	0.00	0.00
ATOM	1436	HD23	LEU	X	93	49.340	58.706	50.767	0.00	0.00
ATOM	1437	C	LEU	X	93	49.487	62.498	49.006	0.00	0.00
ATOM	1438	O	LEU	X	93	48.923	63.535	49.254	0.00	0.00

ATOM	1439	N	TYR	X	94	50.115	62.261	47.843	0.00	0.00
ATOM	1440	H	TYR	X	94	50.601	61.377	47.797	0.00	0.00
ATOM	1441	CA	TYR	X	94	50.363	63.198	46.686	0.00	0.00
ATOM	1442	HA	TYR	X	94	49.624	64.000	46.698	0.00	0.00
ATOM	1443	CB	TYR	X	94	51.760	63.809	46.860	0.00	0.00
ATOM	1444	HB2	TYR	X	94	52.590	63.205	46.493	0.00	0.00
ATOM	1445	HB3	TYR	X	94	51.897	64.597	46.120	0.00	0.00
ATOM	1446	CG	TYR	X	94	52.109	64.580	48.172	0.00	0.00
ATOM	1447	CD1	TYR	X	94	51.931	65.994	48.235	0.00	0.00
ATOM	1448	HD1	TYR	X	94	51.578	66.518	47.359	0.00	0.00
ATOM	1449	CE1	TYR	X	94	52.121	66.696	49.455	0.00	0.00
ATOM	1450	HE1	TYR	X	94	51.870	67.734	49.617	0.00	0.00
ATOM	1451	CZ	TYR	X	94	52.529	65.930	50.648	0.00	0.00
ATOM	1452	OH	TYR	X	94	52.881	66.585	51.813	0.00	0.00
ATOM	1453	HH	TYR	X	94	53.043	65.897	52.462	0.00	0.00
ATOM	1454	CE2	TYR	X	94	53.000	64.574	50.491	0.00	0.00
ATOM	1455	HE2	TYR	X	94	53.311	63.924	51.295	0.00	0.00
ATOM	1456	CD2	TYR	X	94	52.799	63.928	49.251	0.00	0.00
ATOM	1457	HD2	TYR	X	94	53.055	62.893	49.082	0.00	0.00
ATOM	1458	C	TYR	X	94	50.216	62.480	45.344	0.00	0.00
ATOM	1459	O	TYR	X	94	50.398	61.303	45.226	0.00	0.00
ATOM	1460	N	LEU	X	95	49.880	63.232	44.356	0.00	0.00
ATOM	1461	H	LEU	X	95	49.541	64.163	44.554	0.00	0.00
ATOM	1462	CA	LEU	X	95	49.453	62.746	42.994	0.00	0.00
ATOM	1463	HA	LEU	X	95	49.992	61.804	42.896	0.00	0.00
ATOM	1464	CB	LEU	X	95	47.931	62.341	43.056	0.00	0.00
ATOM	1465	HB2	LEU	X	95	47.765	61.768	42.143	0.00	0.00
ATOM	1466	HB3	LEU	X	95	47.889	61.617	43.869	0.00	0.00
ATOM	1467	CG	LEU	X	95	46.832	63.399	43.175	0.00	0.00
ATOM	1468	HG	LEU	X	95	47.096	64.280	43.761	0.00	0.00
ATOM	1469	CD1	LEU	X	95	46.586	63.971	41.762	0.00	0.00
ATOM	1470	HD11	LEU	X	95	47.450	63.979	41.097	0.00	0.00
ATOM	1471	HD12	LEU	X	95	45.822	63.384	41.253	0.00	0.00
ATOM	1472	HD13	LEU	X	95	46.207	64.970	41.980	0.00	0.00
ATOM	1473	CD2	LEU	X	95	45.485	62.739	43.626	0.00	0.00
ATOM	1474	HD21	LEU	X	95	45.562	62.126	44.523	0.00	0.00
ATOM	1475	HD22	LEU	X	95	44.728	63.523	43.665	0.00	0.00
ATOM	1476	HD23	LEU	X	95	45.141	61.989	42.913	0.00	0.00
ATOM	1477	C	LEU	X	95	49.920	63.554	41.789	0.00	0.00
ATOM	1478	O	LEU	X	95	50.616	64.562	41.813	0.00	0.00
ATOM	1479	N	ASN	X	96	49.827	62.821	40.619	0.00	0.00
ATOM	1480	H	ASN	X	96	49.362	61.925	40.656	0.00	0.00
ATOM	1481	CA	ASN	X	96	50.591	63.126	39.328	0.00	0.00
ATOM	1482	HA	ASN	X	96	51.023	64.126	39.286	0.00	0.00
ATOM	1483	CB	ASN	X	96	51.800	62.188	39.092	0.00	0.00
ATOM	1484	HB2	ASN	X	96	51.427	61.212	38.783	0.00	0.00
ATOM	1485	HB3	ASN	X	96	52.491	62.510	38.312	0.00	0.00
ATOM	1486	CG	ASN	X	96	52.644	62.036	40.289	0.00	0.00
ATOM	1487	OD1	ASN	X	96	53.507	62.896	40.601	0.00	0.00
ATOM	1488	ND2	ASN	X	96	52.377	61.025	41.137	0.00	0.00
ATOM	1489	HD21	ASN	X	96	53.143	60.830	41.766	0.00	0.00
ATOM	1490	HD22	ASN	X	96	51.526	60.494	41.020	0.00	0.00
ATOM	1491	C	ASN	X	96	49.602	63.038	38.138	0.00	0.00
ATOM	1492	O	ASN	X	96	48.875	62.052	38.007	0.00	0.00
ATOM	1493	N	VAL	X	97	49.661	64.039	37.257	0.00	0.00
ATOM	1494	H	VAL	X	97	50.276	64.799	37.512	0.00	0.00
ATOM	1495	CA	VAL	X	97	48.851	64.102	36.037	0.00	0.00
ATOM	1496	HA	VAL	X	97	48.326	63.181	35.783	0.00	0.00
ATOM	1497	CB	VAL	X	97	47.638	65.131	36.229	0.00	0.00
ATOM	1498	HB	VAL	X	97	48.080	66.096	36.474	0.00	0.00
ATOM	1499	CG1	VAL	X	97	46.910	65.345	34.903	0.00	0.00
ATOM	1500	HG11	VAL	X	97	46.592	64.389	34.488	0.00	0.00
ATOM	1501	HG12	VAL	X	97	46.019	65.958	35.044	0.00	0.00
ATOM	1502	HG13	VAL	X	97	47.599	65.838	34.217	0.00	0.00
ATOM	1503	CG2	VAL	X	97	46.684	64.775	37.394	0.00	0.00
ATOM	1504	HG21	VAL	X	97	45.782	65.383	37.322	0.00	0.00
ATOM	1505	HG22	VAL	X	97	46.433	63.717	37.464	0.00	0.00
ATOM	1506	HG23	VAL	X	97	47.171	65.163	38.289	0.00	0.00
ATOM	1507	C	VAL	X	97	49.757	64.624	34.908	0.00	0.00
ATOM	1508	O	VAL	X	97	50.300	65.745	34.967	0.00	0.00

ATOM	1509	N	TRP	X	98	49.819	63.838	33.870	0.00	0.00
ATOM	1510	H	TRP	X	98	49.249	63.007	33.941	0.00	0.00
ATOM	1511	CA	TRP	X	98	50.459	64.202	32.594	0.00	0.00
ATOM	1512	HA	TRP	X	98	50.968	65.165	32.640	0.00	0.00
ATOM	1513	CB	TRP	X	98	51.441	63.132	32.020	0.00	0.00
ATOM	1514	HB2	TRP	X	98	50.815	62.243	31.940	0.00	0.00
ATOM	1515	HB3	TRP	X	98	51.806	63.504	31.062	0.00	0.00
ATOM	1516	CG	TRP	X	98	52.681	62.814	32.755	0.00	0.00
ATOM	1517	CD1	TRP	X	98	53.906	63.017	32.269	0.00	0.00
ATOM	1518	HD1	TRP	X	98	54.009	63.311	31.235	0.00	0.00
ATOM	1519	NE1	TRP	X	98	54.902	62.567	33.122	0.00	0.00
ATOM	1520	HE1	TRP	X	98	55.901	62.551	32.971	0.00	0.00
ATOM	1521	CE2	TRP	X	98	54.278	61.982	34.189	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	54.861	61.332	35.307	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	55.928	61.285	35.464	0.00	0.00
ATOM	1524	CH2	TRP	X	98	54.042	60.752	36.270	0.00	0.00
ATOM	1525	HH2	TRP	X	98	54.402	60.278	37.172	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	52.655	60.898	36.132	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	51.974	60.445	36.837	0.00	0.00
ATOM	1528	CE3	TRP	X	98	52.096	61.524	35.018	0.00	0.00
ATOM	1529	HE3	TRP	X	98	51.029	61.663	34.920	0.00	0.00
ATOM	1530	CD2	TRP	X	98	52.876	62.117	34.032	0.00	0.00
ATOM	1531	C	TRP	X	98	49.314	64.330	31.560	0.00	0.00
ATOM	1532	O	TRP	X	98	48.444	63.519	31.422	0.00	0.00
ATOM	1533	N	THR	X	99	49.355	65.412	30.783	0.00	0.00
ATOM	1534	H	THR	X	99	50.244	65.870	30.642	0.00	0.00
ATOM	1535	CA	THR	X	99	48.359	65.847	29.846	0.00	0.00
ATOM	1536	HA	THR	X	99	47.690	65.048	29.527	0.00	0.00
ATOM	1537	CB	THR	X	99	47.404	66.785	30.558	0.00	0.00
ATOM	1538	HB	THR	X	99	46.997	66.109	31.310	0.00	0.00
ATOM	1539	CG2	THR	X	99	48.058	67.996	31.180	0.00	0.00
ATOM	1540	HG21	THR	X	99	48.852	67.759	31.887	0.00	0.00
ATOM	1541	HG22	THR	X	99	48.467	68.602	30.371	0.00	0.00
ATOM	1542	HG23	THR	X	99	47.286	68.620	31.630	0.00	0.00
ATOM	1543	OG1	THR	X	99	46.376	67.168	29.728	0.00	0.00
ATOM	1544	HG1	THR	X	99	45.620	67.525	30.200	0.00	0.00
ATOM	1545	C	THR	X	99	49.052	66.398	28.532	0.00	0.00
ATOM	1546	O	THR	X	99	50.199	66.820	28.671	0.00	0.00
ATOM	1547	N	PRO	X	100	48.435	66.354	27.281	0.00	0.00
ATOM	1548	CD	PRO	X	100	47.227	65.552	27.026	0.00	0.00
ATOM	1549	HD2	PRO	X	100	46.389	66.220	27.219	0.00	0.00
ATOM	1550	HD3	PRO	X	100	47.076	64.616	27.564	0.00	0.00
ATOM	1551	CG	PRO	X	100	47.270	65.262	25.537	0.00	0.00
ATOM	1552	HG2	PRO	X	100	46.237	65.183	25.198	0.00	0.00
ATOM	1553	HG3	PRO	X	100	47.888	64.381	25.366	0.00	0.00
ATOM	1554	CB	PRO	X	100	48.009	66.442	24.904	0.00	0.00
ATOM	1555	HB2	PRO	X	100	47.274	67.239	24.795	0.00	0.00
ATOM	1556	HB3	PRO	X	100	48.419	66.261	23.910	0.00	0.00
ATOM	1557	CA	PRO	X	100	49.029	66.808	26.056	0.00	0.00
ATOM	1558	HA	PRO	X	100	49.964	66.253	25.987	0.00	0.00
ATOM	1559	C	PRO	X	100	49.483	68.301	26.077	0.00	0.00
ATOM	1560	O	PRO	X	100	48.693	69.130	26.562	0.00	0.00
ATOM	1561	N	TYR	X	101	50.661	68.724	25.496	0.00	0.00
ATOM	1562	H	TYR	X	101	51.253	67.967	25.184	0.00	0.00
ATOM	1563	CA	TYR	X	101	51.030	70.111	25.248	0.00	0.00
ATOM	1564	HA	TYR	X	101	50.369	70.778	25.800	0.00	0.00
ATOM	1565	CB	TYR	X	101	52.387	70.376	25.866	0.00	0.00
ATOM	1566	HB2	TYR	X	101	52.298	69.978	26.877	0.00	0.00
ATOM	1567	HB3	TYR	X	101	53.194	69.785	25.433	0.00	0.00
ATOM	1568	CG	TYR	X	101	52.856	71.836	25.955	0.00	0.00
ATOM	1569	CD1	TYR	X	101	53.381	72.446	24.769	0.00	0.00
ATOM	1570	HD1	TYR	X	101	53.479	71.925	23.828	0.00	0.00
ATOM	1571	CE1	TYR	X	101	53.649	73.840	24.776	0.00	0.00
ATOM	1572	HE1	TYR	X	101	53.904	74.403	23.890	0.00	0.00
ATOM	1573	CZ	TYR	X	101	53.468	74.632	25.912	0.00	0.00
ATOM	1574	OH	TYR	X	101	53.922	75.937	25.931	0.00	0.00
ATOM	1575	HH	TYR	X	101	54.019	76.260	25.032	0.00	0.00
ATOM	1576	CE2	TYR	X	101	53.095	74.013	27.149	0.00	0.00
ATOM	1577	HE2	TYR	X	101	53.124	74.572	28.073	0.00	0.00
ATOM	1578	CD2	TYR	X	101	52.682	72.647	27.135	0.00	0.00

ATOM	1579	HD2	TYR	X	101	52.325	72.249	28.074	0.00	0.00
ATOM	1580	C	TYR	X	101	51.089	70.360	23.723	0.00	0.00
ATOM	1581	O	TYR	X	101	51.527	69.485	22.988	0.00	0.00
ATOM	1582	N	PRO	X	102	50.507	71.496	23.259	0.00	0.00
ATOM	1583	CD	PRO	X	102	50.516	71.887	21.865	0.00	0.00
ATOM	1584	HD2	PRO	X	102	49.562	71.557	21.454	0.00	0.00
ATOM	1585	HD3	PRO	X	102	51.310	71.431	21.273	0.00	0.00
ATOM	1586	CG	PRO	X	102	50.628	73.382	21.896	0.00	0.00
ATOM	1587	HG2	PRO	X	102	50.272	73.908	21.010	0.00	0.00
ATOM	1588	HG3	PRO	X	102	51.586	73.723	22.287	0.00	0.00
ATOM	1589	CB	PRO	X	102	49.662	73.773	23.035	0.00	0.00
ATOM	1590	HB2	PRO	X	102	48.660	74.000	22.673	0.00	0.00
ATOM	1591	HB3	PRO	X	102	49.998	74.630	23.618	0.00	0.00
ATOM	1592	CA	PRO	X	102	49.771	72.544	23.988	0.00	0.00
ATOM	1593	HA	PRO	X	102	50.399	72.814	24.836	0.00	0.00
ATOM	1594	C	PRO	X	102	48.375	71.960	24.471	0.00	0.00
ATOM	1595	O	PRO	X	102	47.908	70.986	23.935	0.00	0.00
ATOM	1596	N	ARG	X	103	47.741	72.610	25.468	0.00	0.00
ATOM	1597	H	ARG	X	103	48.250	73.426	25.777	0.00	0.00
ATOM	1598	CA	ARG	X	103	46.605	71.969	26.165	0.00	0.00
ATOM	1599	HA	ARG	X	103	47.008	71.046	26.583	0.00	0.00
ATOM	1600	CB	ARG	X	103	46.212	72.941	27.299	0.00	0.00
ATOM	1601	HB2	ARG	X	103	47.094	73.214	27.879	0.00	0.00
ATOM	1602	HB3	ARG	X	103	45.922	73.945	26.989	0.00	0.00
ATOM	1603	CG	ARG	X	103	45.143	72.436	28.200	0.00	0.00
ATOM	1604	HG2	ARG	X	103	44.278	72.061	27.653	0.00	0.00
ATOM	1605	HG3	ARG	X	103	45.656	71.677	28.790	0.00	0.00
ATOM	1606	CD	ARG	X	103	44.662	73.525	29.178	0.00	0.00
ATOM	1607	HD2	ARG	X	103	44.111	73.091	30.013	0.00	0.00
ATOM	1608	HD3	ARG	X	103	45.497	74.127	29.538	0.00	0.00
ATOM	1609	NE	ARG	X	103	43.808	74.618	28.546	0.00	0.00
ATOM	1610	HE	ARG	X	103	44.239	75.511	28.354	0.00	0.00
ATOM	1611	CZ	ARG	X	103	42.517	74.457	28.238	0.00	0.00
ATOM	1612	NH1	ARG	X	103	41.806	73.397	28.608	0.00	0.00
ATOM	1613	HH11	ARG	X	103	42.278	72.798	29.271	0.00	0.00
ATOM	1614	HH12	ARG	X	103	40.837	73.258	28.360	0.00	0.00
ATOM	1615	NH2	ARG	X	103	41.956	75.330	27.425	0.00	0.00
ATOM	1616	HH21	ARG	X	103	42.489	76.166	27.234	0.00	0.00
ATOM	1617	HH22	ARG	X	103	41.145	75.109	26.864	0.00	0.00
ATOM	1618	C	ARG	X	103	45.390	71.662	25.235	0.00	0.00
ATOM	1619	O	ARG	X	103	45.051	72.465	24.407	0.00	0.00
ATOM	1620	N	PRO	X	104	44.783	70.492	25.427	0.00	0.00
ATOM	1621	CD	PRO	X	104	45.121	69.409	26.368	0.00	0.00
ATOM	1622	HD2	PRO	X	104	45.184	69.693	27.419	0.00	0.00
ATOM	1623	HD3	PRO	X	104	46.099	69.094	26.004	0.00	0.00
ATOM	1624	CG	PRO	X	104	44.107	68.251	26.102	0.00	0.00
ATOM	1625	HG2	PRO	X	104	43.379	68.400	26.899	0.00	0.00
ATOM	1626	HG3	PRO	X	104	44.577	67.267	26.121	0.00	0.00
ATOM	1627	CB	PRO	X	104	43.542	68.541	24.654	0.00	0.00
ATOM	1628	HB2	PRO	X	104	42.495	68.240	24.618	0.00	0.00
ATOM	1629	HB3	PRO	X	104	44.087	68.100	23.819	0.00	0.00
ATOM	1630	CA	PRO	X	104	43.660	70.090	24.563	0.00	0.00
ATOM	1631	HA	PRO	X	104	43.682	70.385	23.515	0.00	0.00
ATOM	1632	C	PRO	X	104	42.437	70.842	25.052	0.00	0.00
ATOM	1633	O	PRO	X	104	42.182	70.843	26.228	0.00	0.00
ATOM	1634	N	THR	X	105	41.672	71.460	24.127	0.00	0.00
ATOM	1635	H	THR	X	105	41.960	71.282	23.175	0.00	0.00
ATOM	1636	CA	THR	X	105	40.400	72.205	24.302	0.00	0.00
ATOM	1637	HA	THR	X	105	40.417	72.552	25.335	0.00	0.00
ATOM	1638	CB	THR	X	105	40.225	73.440	23.345	0.00	0.00
ATOM	1639	HB	THR	X	105	39.262	73.945	23.428	0.00	0.00
ATOM	1640	CG2	THR	X	105	41.230	74.520	23.714	0.00	0.00
ATOM	1641	HG21	THR	X	105	40.775	75.163	24.467	0.00	0.00
ATOM	1642	HG22	THR	X	105	42.094	74.101	24.231	0.00	0.00
ATOM	1643	HG23	THR	X	105	41.523	75.113	22.848	0.00	0.00
ATOM	1644	OG1	THR	X	105	40.545	73.042	21.994	0.00	0.00
ATOM	1645	HG1	THR	X	105	39.754	72.634	21.634	0.00	0.00
ATOM	1646	C	THR	X	105	39.219	71.300	24.347	0.00	0.00
ATOM	1647	O	THR	X	105	38.324	71.664	25.094	0.00	0.00
ATOM	1648	N	SER	X	106	39.119	70.217	23.594	0.00	0.00

ATOM	1649	H	SER	X	106	39.885	69.925	23.004	0.00	0.00
ATOM	1650	CA	SER	X	106	38.002	69.241	23.709	0.00	0.00
ATOM	1651	HA	SER	X	106	37.191	69.832	24.133	0.00	0.00
ATOM	1652	CB	SER	X	106	37.532	68.721	22.354	0.00	0.00
ATOM	1653	HB2	SER	X	106	36.528	68.418	22.653	0.00	0.00
ATOM	1654	HB3	SER	X	106	37.599	69.542	21.641	0.00	0.00
ATOM	1655	OG	SER	X	106	38.228	67.501	21.991	0.00	0.00
ATOM	1656	HG	SER	X	106	38.259	67.442	21.033	0.00	0.00
ATOM	1657	C	SER	X	106	38.372	68.114	24.697	0.00	0.00
ATOM	1658	O	SER	X	106	39.557	67.941	24.986	0.00	0.00
ATOM	1659	N	PRO	X	107	37.378	67.402	25.295	0.00	0.00
ATOM	1660	CD	PRO	X	107	36.032	67.774	25.297	0.00	0.00
ATOM	1661	HD2	PRO	X	107	35.519	67.261	24.484	0.00	0.00
ATOM	1662	HD3	PRO	X	107	35.737	68.821	25.224	0.00	0.00
ATOM	1663	CG	PRO	X	107	35.530	67.175	26.682	0.00	0.00
ATOM	1664	HG2	PRO	X	107	34.469	66.976	26.833	0.00	0.00
ATOM	1665	HG3	PRO	X	107	35.958	67.786	27.476	0.00	0.00
ATOM	1666	CB	PRO	X	107	36.279	65.891	26.644	0.00	0.00
ATOM	1667	HB2	PRO	X	107	35.820	65.166	25.972	0.00	0.00
ATOM	1668	HB3	PRO	X	107	36.335	65.385	27.608	0.00	0.00
ATOM	1669	CA	PRO	X	107	37.679	66.315	26.207	0.00	0.00
ATOM	1670	HA	PRO	X	107	38.253	66.717	27.043	0.00	0.00
ATOM	1671	C	PRO	X	107	38.409	65.166	25.637	0.00	0.00
ATOM	1672	O	PRO	X	107	38.125	64.772	24.480	0.00	0.00
ATOM	1673	N	THR	X	108	39.385	64.657	26.445	0.00	0.00
ATOM	1674	H	THR	X	108	39.655	64.989	27.360	0.00	0.00
ATOM	1675	CA	THR	X	108	40.056	63.356	26.191	0.00	0.00
ATOM	1676	HA	THR	X	108	39.508	62.817	25.419	0.00	0.00
ATOM	1677	CB	THR	X	108	41.411	63.621	25.549	0.00	0.00
ATOM	1678	HB	THR	X	108	41.259	64.194	24.634	0.00	0.00
ATOM	1679	CG2	THR	X	108	42.491	64.293	26.295	0.00	0.00
ATOM	1680	HG21	THR	X	108	42.804	63.594	27.071	0.00	0.00
ATOM	1681	HG22	THR	X	108	43.302	64.553	25.614	0.00	0.00
ATOM	1682	HG23	THR	X	108	42.112	65.253	26.644	0.00	0.00
ATOM	1683	OG1	THR	X	108	41.980	62.334	25.200	0.00	0.00
ATOM	1684	HG1	THR	X	108	42.891	62.364	25.502	0.00	0.00
ATOM	1685	C	THR	X	108	40.141	62.384	27.366	0.00	0.00
ATOM	1686	O	THR	X	108	40.462	62.865	28.496	0.00	0.00
ATOM	1687	N	PRO	X	109	39.895	61.090	27.169	0.00	0.00
ATOM	1688	CD	PRO	X	109	39.844	60.413	25.903	0.00	0.00
ATOM	1689	HD2	PRO	X	109	40.794	60.352	25.373	0.00	0.00
ATOM	1690	HD3	PRO	X	109	39.173	60.888	25.187	0.00	0.00
ATOM	1691	CG	PRO	X	109	39.195	59.072	26.169	0.00	0.00
ATOM	1692	HG2	PRO	X	109	39.427	58.324	25.412	0.00	0.00
ATOM	1693	HG3	PRO	X	109	38.111	59.141	26.261	0.00	0.00
ATOM	1694	CB	PRO	X	109	39.601	58.665	27.607	0.00	0.00
ATOM	1695	HB2	PRO	X	109	40.579	58.183	27.633	0.00	0.00
ATOM	1696	HB3	PRO	X	109	38.783	58.109	28.065	0.00	0.00
ATOM	1697	CA	PRO	X	109	39.790	60.091	28.243	0.00	0.00
ATOM	1698	HA	PRO	X	109	38.939	60.278	28.897	0.00	0.00
ATOM	1699	C	PRO	X	109	40.999	59.989	29.188	0.00	0.00
ATOM	1700	O	PRO	X	109	42.054	60.521	28.840	0.00	0.00
ATOM	1701	N	VAL	X	110	40.816	59.336	30.327	0.00	0.00
ATOM	1702	H	VAL	X	110	39.868	59.035	30.502	0.00	0.00
ATOM	1703	CA	VAL	X	110	41.810	59.406	31.413	0.00	0.00
ATOM	1704	HA	VAL	X	110	42.715	59.907	31.069	0.00	0.00
ATOM	1705	CB	VAL	X	110	41.229	60.195	32.629	0.00	0.00
ATOM	1706	HB	VAL	X	110	40.413	59.697	33.153	0.00	0.00
ATOM	1707	CG1	VAL	X	110	42.323	60.439	33.622	0.00	0.00
ATOM	1708	HG11	VAL	X	110	42.997	59.582	33.645	0.00	0.00
ATOM	1709	HG12	VAL	X	110	42.762	61.427	33.480	0.00	0.00
ATOM	1710	HG13	VAL	X	110	41.851	60.424	34.605	0.00	0.00
ATOM	1711	CG2	VAL	X	110	40.592	61.586	32.295	0.00	0.00
ATOM	1712	HG21	VAL	X	110	39.751	61.403	31.626	0.00	0.00
ATOM	1713	HG22	VAL	X	110	40.170	62.053	33.186	0.00	0.00
ATOM	1714	HG23	VAL	X	110	41.250	62.235	31.718	0.00	0.00
ATOM	1715	C	VAL	X	110	42.154	57.954	31.845	0.00	0.00
ATOM	1716	O	VAL	X	110	41.332	57.113	32.265	0.00	0.00
ATOM	1717	N	LEU	X	111	43.408	57.621	31.679	0.00	0.00
ATOM	1718	H	LEU	X	111	44.130	58.273	31.409	0.00	0.00

ATOM	1719	CA	LEU	X	111	43.922	56.324	32.141	0.00	0.00
ATOM	1720	HA	LEU	X	111	43.146	55.584	32.339	0.00	0.00
ATOM	1721	CB	LEU	X	111	44.956	55.885	31.065	0.00	0.00
ATOM	1722	HB2	LEU	X	111	45.407	56.775	30.627	0.00	0.00
ATOM	1723	HB3	LEU	X	111	45.790	55.371	31.542	0.00	0.00
ATOM	1724	CG	LEU	X	111	44.325	55.041	29.998	0.00	0.00
ATOM	1725	HG	LEU	X	111	43.464	55.520	29.531	0.00	0.00
ATOM	1726	CD1	LEU	X	111	45.416	54.704	28.949	0.00	0.00
ATOM	1727	HD11	LEU	X	111	46.062	53.932	29.367	0.00	0.00
ATOM	1728	HD12	LEU	X	111	44.920	54.322	28.056	0.00	0.00
ATOM	1729	HD13	LEU	X	111	45.954	55.622	28.717	0.00	0.00
ATOM	1730	CD2	LEU	X	111	43.764	53.686	30.649	0.00	0.00
ATOM	1731	HD21	LEU	X	111	44.475	53.041	31.166	0.00	0.00
ATOM	1732	HD22	LEU	X	111	42.907	53.982	31.253	0.00	0.00
ATOM	1733	HD23	LEU	X	111	43.402	53.013	29.872	0.00	0.00
ATOM	1734	C	LEU	X	111	44.635	56.552	33.557	0.00	0.00
ATOM	1735	O	LEU	X	111	45.447	57.521	33.605	0.00	0.00
ATOM	1736	N	VAL	X	112	44.254	55.814	34.593	0.00	0.00
ATOM	1737	H	VAL	X	112	43.443	55.242	34.405	0.00	0.00
ATOM	1738	CA	VAL	X	112	44.656	55.946	36.024	0.00	0.00
ATOM	1739	HA	VAL	X	112	45.188	56.856	36.298	0.00	0.00
ATOM	1740	CB	VAL	X	112	43.324	56.069	36.835	0.00	0.00
ATOM	1741	HB	VAL	X	112	42.689	55.193	36.701	0.00	0.00
ATOM	1742	CG1	VAL	X	112	43.575	56.173	38.389	0.00	0.00
ATOM	1743	HG11	VAL	X	112	42.591	56.347	38.823	0.00	0.00
ATOM	1744	HG12	VAL	X	112	44.192	55.363	38.777	0.00	0.00
ATOM	1745	HG13	VAL	X	112	44.161	57.071	38.586	0.00	0.00
ATOM	1746	CG2	VAL	X	112	42.541	57.385	36.407	0.00	0.00
ATOM	1747	HG21	VAL	X	112	43.084	58.260	36.763	0.00	0.00
ATOM	1748	HG22	VAL	X	112	42.515	57.557	35.331	0.00	0.00
ATOM	1749	HG23	VAL	X	112	41.589	57.386	36.939	0.00	0.00
ATOM	1750	C	VAL	X	112	45.521	54.747	36.394	0.00	0.00
ATOM	1751	O	VAL	X	112	45.083	53.570	36.252	0.00	0.00
ATOM	1752	N	TRP	X	113	46.758	54.972	36.804	0.00	0.00
ATOM	1753	H	TRP	X	113	47.026	55.927	36.994	0.00	0.00
ATOM	1754	CA	TRP	X	113	47.743	53.957	37.012	0.00	0.00
ATOM	1755	HA	TRP	X	113	47.552	53.109	36.355	0.00	0.00
ATOM	1756	CB	TRP	X	113	49.156	54.410	36.518	0.00	0.00
ATOM	1757	HB2	TRP	X	113	49.102	54.639	35.454	0.00	0.00
ATOM	1758	HB3	TRP	X	113	49.356	55.382	36.967	0.00	0.00
ATOM	1759	CG	TRP	X	113	50.300	53.460	36.760	0.00	0.00
ATOM	1760	CD1	TRP	X	113	51.510	53.737	37.392	0.00	0.00
ATOM	1761	HD1	TRP	X	113	51.799	54.670	37.851	0.00	0.00
ATOM	1762	NE1	TRP	X	113	52.278	52.591	37.502	0.00	0.00
ATOM	1763	HE1	TRP	X	113	53.234	52.694	37.814	0.00	0.00
ATOM	1764	CE2	TRP	X	113	51.632	51.500	37.076	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	52.021	50.160	36.930	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	52.968	49.773	37.276	0.00	0.00
ATOM	1767	CH2	TRP	X	113	51.120	49.258	36.329	0.00	0.00
ATOM	1768	HH2	TRP	X	113	51.360	48.209	36.423	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	49.880	49.686	35.844	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	49.136	48.982	35.502	0.00	0.00
ATOM	1771	CE3	TRP	X	113	49.433	51.054	36.108	0.00	0.00
ATOM	1772	HE3	TRP	X	113	48.436	51.299	35.775	0.00	0.00
ATOM	1773	CD2	TRP	X	113	50.368	51.990	36.640	0.00	0.00
ATOM	1774	C	TRP	X	113	47.788	53.577	38.455	0.00	0.00
ATOM	1775	O	TRP	X	113	48.070	54.304	39.410	0.00	0.00
ATOM	1776	N	ILE	X	114	47.491	52.301	38.697	0.00	0.00
ATOM	1777	H	ILE	X	114	47.190	51.679	37.960	0.00	0.00
ATOM	1778	CA	ILE	X	114	47.608	51.711	39.992	0.00	0.00
ATOM	1779	HA	ILE	X	114	48.030	52.500	40.613	0.00	0.00
ATOM	1780	CB	ILE	X	114	46.181	51.441	40.561	0.00	0.00
ATOM	1781	HB	ILE	X	114	45.738	50.641	39.968	0.00	0.00
ATOM	1782	CG2	ILE	X	114	46.251	50.848	41.983	0.00	0.00
ATOM	1783	HG21	ILE	X	114	47.036	50.118	42.183	0.00	0.00
ATOM	1784	HG22	ILE	X	114	46.566	51.632	42.672	0.00	0.00
ATOM	1785	HG23	ILE	X	114	45.339	50.505	42.472	0.00	0.00
ATOM	1786	CG1	ILE	X	114	45.261	52.641	40.439	0.00	0.00
ATOM	1787	HG12	ILE	X	114	45.750	53.603	40.593	0.00	0.00
ATOM	1788	HG13	ILE	X	114	44.933	52.631	39.399	0.00	0.00

ATOM	1789	CD1	ILE	X	114	44.029	52.676	41.349	0.00	0.00
ATOM	1790	HD11	ILE	X	114	43.501	51.743	41.154	0.00	0.00
ATOM	1791	HD12	ILE	X	114	44.330	52.712	42.396	0.00	0.00
ATOM	1792	HD13	ILE	X	114	43.370	53.497	41.064	0.00	0.00
ATOM	1793	C	ILE	X	114	48.706	50.555	40.111	0.00	0.00
ATOM	1794	O	ILE	X	114	48.402	49.460	39.646	0.00	0.00
ATOM	1795	N	TYR	X	115	49.920	50.876	40.605	0.00	0.00
ATOM	1796	H	TYR	X	115	50.147	51.851	40.738	0.00	0.00
ATOM	1797	CA	TYR	X	115	51.067	49.917	40.559	0.00	0.00
ATOM	1798	HA	TYR	X	115	51.008	49.433	39.584	0.00	0.00
ATOM	1799	CB	TYR	X	115	52.363	50.777	40.678	0.00	0.00
ATOM	1800	HB2	TYR	X	115	53.223	50.113	40.763	0.00	0.00
ATOM	1801	HB3	TYR	X	115	52.505	51.300	39.732	0.00	0.00
ATOM	1802	CG	TYR	X	115	52.317	51.862	41.736	0.00	0.00
ATOM	1803	CD1	TYR	X	115	52.581	51.556	43.036	0.00	0.00
ATOM	1804	HD1	TYR	X	115	52.818	50.546	43.338	0.00	0.00
ATOM	1805	CE1	TYR	X	115	52.379	52.408	44.112	0.00	0.00
ATOM	1806	HE1	TYR	X	115	52.375	52.139	45.158	0.00	0.00
ATOM	1807	CZ	TYR	X	115	51.963	53.738	43.764	0.00	0.00
ATOM	1808	OH	TYR	X	115	51.860	54.594	44.814	0.00	0.00
ATOM	1809	HH	TYR	X	115	51.314	55.349	44.584	0.00	0.00
ATOM	1810	CE2	TYR	X	115	51.652	54.085	42.468	0.00	0.00
ATOM	1811	HE2	TYR	X	115	51.247	55.053	42.213	0.00	0.00
ATOM	1812	CD2	TYR	X	115	51.771	53.104	41.436	0.00	0.00
ATOM	1813	HD2	TYR	X	115	51.475	53.439	40.452	0.00	0.00
ATOM	1814	C	TYR	X	115	51.065	48.779	41.597	0.00	0.00
ATOM	1815	O	TYR	X	115	50.396	48.870	42.681	0.00	0.00
ATOM	1816	N	GLY	X	116	51.736	47.712	41.242	0.00	0.00
ATOM	1817	H	GLY	X	116	52.253	47.673	40.376	0.00	0.00
ATOM	1818	CA	GLY	X	116	52.076	46.549	42.150	0.00	0.00
ATOM	1819	HA2	GLY	X	116	51.239	46.144	42.800	0.00	0.00
ATOM	1820	HA3	GLY	X	116	52.384	45.698	41.535	0.00	0.00
ATOM	1821	C	GLY	X	116	53.222	46.939	43.101	0.00	0.00
ATOM	1822	O	GLY	X	116	53.839	47.998	42.965	0.00	0.00
ATOM	1823	N	GLY	X	117	53.530	45.994	43.971	0.00	0.00
ATOM	1824	H	GLY	X	117	53.033	45.124	43.844	0.00	0.00
ATOM	1825	CA	GLY	X	117	54.567	45.979	45.057	0.00	0.00
ATOM	1826	HA2	GLY	X	117	55.509	45.602	44.561	0.00	0.00
ATOM	1827	HA3	GLY	X	117	54.861	46.987	45.374	0.00	0.00
ATOM	1828	C	GLY	X	117	54.283	45.016	46.223	0.00	0.00
ATOM	1829	O	GLY	X	117	54.877	45.333	47.259	0.00	0.00
ATOM	1830	N	GLY	X	118	53.451	43.987	46.106	0.00	0.00
ATOM	1831	H	GLY	X	118	52.994	44.001	45.206	0.00	0.00
ATOM	1832	CA	GLY	X	118	52.933	42.979	47.091	0.00	0.00
ATOM	1833	HA2	GLY	X	118	52.272	42.197	46.581	0.00	0.00
ATOM	1834	HA3	GLY	X	118	53.765	42.436	47.552	0.00	0.00
ATOM	1835	C	GLY	X	118	52.098	43.579	48.204	0.00	0.00
ATOM	1836	O	GLY	X	118	52.083	43.015	49.287	0.00	0.00
ATOM	1837	N	PHE	X	119	51.500	44.804	47.995	0.00	0.00
ATOM	1838	H	PHE	X	119	51.511	45.117	47.035	0.00	0.00
ATOM	1839	CA	PHE	X	119	50.778	45.647	48.959	0.00	0.00
ATOM	1840	HA	PHE	X	119	50.425	46.501	48.380	0.00	0.00
ATOM	1841	CB	PHE	X	119	49.584	44.987	49.612	0.00	0.00
ATOM	1842	HB2	PHE	X	119	49.777	44.045	50.125	0.00	0.00
ATOM	1843	HB3	PHE	X	119	49.213	45.707	50.342	0.00	0.00
ATOM	1844	CG	PHE	X	119	48.367	44.686	48.662	0.00	0.00
ATOM	1845	CD1	PHE	X	119	47.584	45.783	48.413	0.00	0.00
ATOM	1846	HD1	PHE	X	119	47.844	46.744	48.833	0.00	0.00
ATOM	1847	CE1	PHE	X	119	46.383	45.587	47.716	0.00	0.00
ATOM	1848	HE1	PHE	X	119	45.825	46.491	47.522	0.00	0.00
ATOM	1849	CZ	PHE	X	119	45.960	44.291	47.296	0.00	0.00
ATOM	1850	HZ	PHE	X	119	45.003	44.217	46.801	0.00	0.00
ATOM	1851	CE2	PHE	X	119	46.804	43.232	47.479	0.00	0.00
ATOM	1852	HE2	PHE	X	119	46.503	42.247	47.153	0.00	0.00
ATOM	1853	CD2	PHE	X	119	48.044	43.416	48.192	0.00	0.00
ATOM	1854	HD2	PHE	X	119	48.651	42.554	48.426	0.00	0.00
ATOM	1855	C	PHE	X	119	51.758	46.202	50.063	0.00	0.00
ATOM	1856	O	PHE	X	119	51.291	46.960	50.915	0.00	0.00
ATOM	1857	N	TYR	X	120	53.058	45.868	50.047	0.00	0.00
ATOM	1858	H	TYR	X	120	53.285	45.162	49.362	0.00	0.00

ATOM	1859	CA	TYR	X	120	54.064	46.221	51.072	0.00	0.00
ATOM	1860	HA	TYR	X	120	53.591	46.732	51.911	0.00	0.00
ATOM	1861	CB	TYR	X	120	54.609	44.949	51.718	0.00	0.00
ATOM	1862	HB2	TYR	X	120	55.361	45.071	52.497	0.00	0.00
ATOM	1863	HB3	TYR	X	120	53.740	44.404	52.086	0.00	0.00
ATOM	1864	CG	TYR	X	120	55.306	43.907	50.820	0.00	0.00
ATOM	1865	CD1	TYR	X	120	56.537	44.142	50.246	0.00	0.00
ATOM	1866	HD1	TYR	X	120	57.039	45.090	50.366	0.00	0.00
ATOM	1867	CE1	TYR	X	120	57.118	43.113	49.443	0.00	0.00
ATOM	1868	HE1	TYR	X	120	58.022	43.230	48.863	0.00	0.00
ATOM	1869	CZ	TYR	X	120	56.442	41.888	49.226	0.00	0.00
ATOM	1870	OH	TYR	X	120	57.047	40.965	48.495	0.00	0.00
ATOM	1871	HH	TYR	X	120	57.925	41.242	48.222	0.00	0.00
ATOM	1872	CE2	TYR	X	120	55.205	41.636	49.845	0.00	0.00
ATOM	1873	HE2	TYR	X	120	54.775	40.654	49.716	0.00	0.00
ATOM	1874	CD2	TYR	X	120	54.709	42.643	50.646	0.00	0.00
ATOM	1875	HD2	TYR	X	120	53.819	42.434	51.222	0.00	0.00
ATOM	1876	C	TYR	X	120	55.273	47.083	50.634	0.00	0.00
ATOM	1877	O	TYR	X	120	56.262	47.358	51.362	0.00	0.00
ATOM	1878	N	SER	X	121	55.120	47.650	49.421	0.00	0.00
ATOM	1879	H	SER	X	121	54.358	47.365	48.821	0.00	0.00
ATOM	1880	CA	SER	X	121	56.060	48.512	48.716	0.00	0.00
ATOM	1881	HA	SER	X	121	56.299	49.407	49.290	0.00	0.00
ATOM	1882	CB	SER	X	121	57.410	47.823	48.402	0.00	0.00
ATOM	1883	HB2	SER	X	121	57.956	48.321	47.600	0.00	0.00
ATOM	1884	HB3	SER	X	121	58.109	47.773	49.237	0.00	0.00
ATOM	1885	OG	SER	X	121	57.160	46.467	48.069	0.00	0.00
ATOM	1886	HG	SER	X	121	56.224	46.261	48.013	0.00	0.00
ATOM	1887	C	SER	X	121	55.384	49.156	47.475	0.00	0.00
ATOM	1888	O	SER	X	121	54.401	48.602	46.994	0.00	0.00
ATOM	1889	N	GLY	X	122	55.930	50.307	47.021	0.00	0.00
ATOM	1890	H	GLY	X	122	56.777	50.686	47.418	0.00	0.00
ATOM	1891	CA	GLY	X	122	55.314	50.986	45.817	0.00	0.00
ATOM	1892	HA2	GLY	X	122	55.900	50.549	45.004	0.00	0.00
ATOM	1893	HA3	GLY	X	122	54.287	50.753	45.745	0.00	0.00
ATOM	1894	C	GLY	X	122	55.552	52.525	45.833	0.00	0.00
ATOM	1895	O	GLY	X	122	55.528	53.202	46.853	0.00	0.00
ATOM	1896	N	ALA	X	123	55.710	53.059	44.627	0.00	0.00
ATOM	1897	H	ALA	X	123	55.478	52.474	43.837	0.00	0.00
ATOM	1898	CA	ALA	X	123	56.088	54.447	44.460	0.00	0.00
ATOM	1899	HA	ALA	X	123	55.542	55.119	45.122	0.00	0.00
ATOM	1900	CB	ALA	X	123	57.534	54.661	44.602	0.00	0.00
ATOM	1901	HB1	ALA	X	123	57.729	54.452	45.654	0.00	0.00
ATOM	1902	HB2	ALA	X	123	58.101	53.970	43.978	0.00	0.00
ATOM	1903	HB3	ALA	X	123	57.840	55.673	44.338	0.00	0.00
ATOM	1904	C	ALA	X	123	55.491	54.839	43.100	0.00	0.00
ATOM	1905	O	ALA	X	123	55.702	54.020	42.125	0.00	0.00
ATOM	1906	N	SER	X	124	54.861	55.993	42.884	0.00	0.00
ATOM	1907	H	SER	X	124	54.785	56.651	43.646	0.00	0.00
ATOM	1908	CA	SER	X	124	54.448	56.568	41.629	0.00	0.00
ATOM	1909	HA	SER	X	124	54.035	55.720	41.084	0.00	0.00
ATOM	1910	CB	SER	X	124	53.437	57.690	41.817	0.00	0.00
ATOM	1911	HB2	SER	X	124	53.184	58.111	40.844	0.00	0.00
ATOM	1912	HB3	SER	X	124	52.535	57.320	42.304	0.00	0.00
ATOM	1913	OG	SER	X	124	54.153	58.632	42.571	0.00	0.00
ATOM	1914	HG	SER	X	124	54.042	58.486	43.513	0.00	0.00
ATOM	1915	C	SER	X	124	55.598	57.058	40.760	0.00	0.00
ATOM	1916	O	SER	X	124	55.489	57.084	39.544	0.00	0.00
ATOM	1917	N	SER	X	125	56.685	57.536	41.299	0.00	0.00
ATOM	1918	H	SER	X	125	56.763	57.476	42.304	0.00	0.00
ATOM	1919	CA	SER	X	125	57.429	58.643	40.653	0.00	0.00
ATOM	1920	HA	SER	X	125	56.873	59.278	39.963	0.00	0.00
ATOM	1921	CB	SER	X	125	57.972	59.429	41.850	0.00	0.00
ATOM	1922	HB2	SER	X	125	58.667	60.187	41.490	0.00	0.00
ATOM	1923	HB3	SER	X	125	57.134	60.005	42.244	0.00	0.00
ATOM	1924	OG	SER	X	125	58.610	58.591	42.877	0.00	0.00
ATOM	1925	HG	SER	X	125	59.343	58.089	42.512	0.00	0.00
ATOM	1926	C	SER	X	125	58.586	58.076	39.834	0.00	0.00
ATOM	1927	O	SER	X	125	59.452	58.797	39.421	0.00	0.00
ATOM	1928	N	LEU	X	126	58.658	56.717	39.624	0.00	0.00

ATOM	1929	H	LEU	X	126	57.785	56.231	39.765	0.00	0.00
ATOM	1930	CA	LEU	X	126	59.627	55.857	38.889	0.00	0.00
ATOM	1931	HA	LEU	X	126	60.643	56.063	39.228	0.00	0.00
ATOM	1932	CB	LEU	X	126	59.382	54.308	38.922	0.00	0.00
ATOM	1933	HB2	LEU	X	126	58.439	54.200	38.386	0.00	0.00
ATOM	1934	HB3	LEU	X	126	60.189	53.816	38.378	0.00	0.00
ATOM	1935	CG	LEU	X	126	59.336	53.729	40.309	0.00	0.00
ATOM	1936	HG	LEU	X	126	58.535	54.142	40.922	0.00	0.00
ATOM	1937	CD1	LEU	X	126	58.935	52.298	40.363	0.00	0.00
ATOM	1938	HD11	LEU	X	126	57.997	52.139	39.830	0.00	0.00
ATOM	1939	HD12	LEU	X	126	59.671	51.621	39.930	0.00	0.00
ATOM	1940	HD13	LEU	X	126	58.654	52.003	41.374	0.00	0.00
ATOM	1941	CD2	LEU	X	126	60.624	53.975	41.079	0.00	0.00
ATOM	1942	HD21	LEU	X	126	61.484	53.586	40.534	0.00	0.00
ATOM	1943	HD22	LEU	X	126	60.920	55.015	41.214	0.00	0.00
ATOM	1944	HD23	LEU	X	126	60.527	53.455	42.032	0.00	0.00
ATOM	1945	C	LEU	X	126	59.655	56.238	37.405	0.00	0.00
ATOM	1946	O	LEU	X	126	58.627	56.660	36.846	0.00	0.00
ATOM	1947	N	ASP	X	127	60.785	55.985	36.767	0.00	0.00
ATOM	1948	H	ASP	X	127	61.622	55.761	37.286	0.00	0.00
ATOM	1949	CA	ASP	X	127	60.988	56.282	35.292	0.00	0.00
ATOM	1950	HA	ASP	X	127	60.711	57.321	35.117	0.00	0.00
ATOM	1951	CB	ASP	X	127	62.487	56.079	35.049	0.00	0.00
ATOM	1952	HB2	ASP	X	127	63.082	56.661	35.753	0.00	0.00
ATOM	1953	HB3	ASP	X	127	62.621	55.004	35.173	0.00	0.00
ATOM	1954	CG	ASP	X	127	62.792	56.542	33.588	0.00	0.00
ATOM	1955	OD1	ASP	X	127	62.532	57.730	33.263	0.00	0.00
ATOM	1956	OD2	ASP	X	127	63.225	55.718	32.798	0.00	0.00
ATOM	1957	C	ASP	X	127	60.006	55.428	34.432	0.00	0.00
ATOM	1958	O	ASP	X	127	59.424	55.906	33.496	0.00	0.00
ATOM	1959	N	VAL	X	128	59.865	54.156	34.810	0.00	0.00
ATOM	1960	H	VAL	X	128	60.453	53.877	35.582	0.00	0.00
ATOM	1961	CA	VAL	X	128	59.108	53.157	34.025	0.00	0.00
ATOM	1962	HA	VAL	X	128	59.493	53.281	33.012	0.00	0.00
ATOM	1963	CB	VAL	X	128	59.546	51.781	34.571	0.00	0.00
ATOM	1964	HB	VAL	X	128	60.636	51.747	34.569	0.00	0.00
ATOM	1965	CG1	VAL	X	128	59.174	51.527	36.090	0.00	0.00
ATOM	1966	HG11	VAL	X	128	59.401	52.385	36.723	0.00	0.00
ATOM	1967	HG12	VAL	X	128	58.129	51.231	36.180	0.00	0.00
ATOM	1968	HG13	VAL	X	128	59.836	50.696	36.333	0.00	0.00
ATOM	1969	CG2	VAL	X	128	59.023	50.596	33.726	0.00	0.00
ATOM	1970	HG21	VAL	X	128	57.947	50.591	33.902	0.00	0.00
ATOM	1971	HG22	VAL	X	128	59.393	50.591	32.701	0.00	0.00
ATOM	1972	HG23	VAL	X	128	59.430	49.650	34.082	0.00	0.00
ATOM	1973	C	VAL	X	128	57.575	53.384	34.025	0.00	0.00
ATOM	1974	O	VAL	X	128	56.805	53.095	33.085	0.00	0.00
ATOM	1975	N	TYR	X	129	57.099	53.965	35.151	0.00	0.00
ATOM	1976	H	TYR	X	129	57.697	54.094	35.955	0.00	0.00
ATOM	1977	CA	TYR	X	129	55.699	54.363	35.325	0.00	0.00
ATOM	1978	HA	TYR	X	129	54.940	53.661	34.982	0.00	0.00
ATOM	1979	CB	TYR	X	129	55.373	54.342	36.877	0.00	0.00
ATOM	1980	HB2	TYR	X	129	55.858	55.160	37.411	0.00	0.00
ATOM	1981	HB3	TYR	X	129	54.348	54.595	37.148	0.00	0.00
ATOM	1982	CG	TYR	X	129	55.565	53.026	37.648	0.00	0.00
ATOM	1983	CD1	TYR	X	129	55.703	51.802	36.988	0.00	0.00
ATOM	1984	HD1	TYR	X	129	55.798	51.799	35.912	0.00	0.00
ATOM	1985	CE1	TYR	X	129	55.883	50.606	37.718	0.00	0.00
ATOM	1986	HE1	TYR	X	129	56.110	49.693	37.187	0.00	0.00
ATOM	1987	CZ	TYR	X	129	55.743	50.621	39.109	0.00	0.00
ATOM	1988	OH	TYR	X	129	55.872	49.468	39.845	0.00	0.00
ATOM	1989	HH	TYR	X	129	55.806	49.617	40.791	0.00	0.00
ATOM	1990	CE2	TYR	X	129	55.474	51.839	39.783	0.00	0.00
ATOM	1991	HE2	TYR	X	129	55.314	51.872	40.850	0.00	0.00
ATOM	1992	CD2	TYR	X	129	55.362	52.994	39.056	0.00	0.00
ATOM	1993	HD2	TYR	X	129	55.259	53.931	39.583	0.00	0.00
ATOM	1994	C	TYR	X	129	55.226	55.748	34.729	0.00	0.00
ATOM	1995	O	TYR	X	129	54.184	56.259	35.031	0.00	0.00
ATOM	1996	N	ASP	X	130	56.068	56.436	33.998	0.00	0.00
ATOM	1997	H	ASP	X	130	56.899	55.943	33.706	0.00	0.00
ATOM	1998	CA	ASP	X	130	55.909	57.822	33.542	0.00	0.00

ATOM	1999	HA	ASP	X	130	55.316	58.311	34.315	0.00	0.00
ATOM	2000	CB	ASP	X	130	57.316	58.446	33.483	0.00	0.00
ATOM	2001	HB2	ASP	X	130	57.747	58.267	34.468	0.00	0.00
ATOM	2002	HB3	ASP	X	130	57.903	57.913	32.735	0.00	0.00
ATOM	2003	CG	ASP	X	130	57.396	59.950	33.166	0.00	0.00
ATOM	2004	OD1	ASP	X	130	58.157	60.695	33.791	0.00	0.00
ATOM	2005	OD2	ASP	X	130	56.957	60.398	32.093	0.00	0.00
ATOM	2006	C	ASP	X	130	55.098	57.921	32.213	0.00	0.00
ATOM	2007	O	ASP	X	130	55.335	57.210	31.255	0.00	0.00
ATOM	2008	N	GLY	X	131	53.976	58.724	32.249	0.00	0.00
ATOM	2009	H	GLY	X	131	53.791	59.378	32.996	0.00	0.00
ATOM	2010	CA	GLY	X	131	52.915	58.764	31.124	0.00	0.00
ATOM	2011	HA2	GLY	X	131	52.685	57.694	30.934	0.00	0.00
ATOM	2012	HA3	GLY	X	131	51.986	59.268	31.447	0.00	0.00
ATOM	2013	C	GLY	X	131	53.485	59.350	29.747	0.00	0.00
ATOM	2014	O	GLY	X	131	52.780	59.254	28.751	0.00	0.00
ATOM	2015	N	ARG	X	132	54.642	59.996	29.664	0.00	0.00
ATOM	2016	H	ARG	X	132	55.123	60.122	30.543	0.00	0.00
ATOM	2017	CA	ARG	X	132	54.939	60.972	28.584	0.00	0.00
ATOM	2018	HA	ARG	X	132	54.240	61.774	28.825	0.00	0.00
ATOM	2019	CB	ARG	X	132	56.353	61.615	28.858	0.00	0.00
ATOM	2020	HB2	ARG	X	132	56.560	62.389	28.120	0.00	0.00
ATOM	2021	HB3	ARG	X	132	56.252	62.060	29.848	0.00	0.00
ATOM	2022	CG	ARG	X	132	57.565	60.662	28.851	0.00	0.00
ATOM	2023	HG2	ARG	X	132	57.267	59.901	29.572	0.00	0.00
ATOM	2024	HG3	ARG	X	132	57.711	60.142	27.905	0.00	0.00
ATOM	2025	CD	ARG	X	132	58.983	61.229	29.160	0.00	0.00
ATOM	2026	HD2	ARG	X	132	59.705	60.434	28.973	0.00	0.00
ATOM	2027	HD3	ARG	X	132	59.107	62.161	28.608	0.00	0.00
ATOM	2028	NE	ARG	X	132	59.045	61.685	30.475	0.00	0.00
ATOM	2029	HE	ARG	X	132	58.432	61.162	31.084	0.00	0.00
ATOM	2030	CZ	ARG	X	132	59.680	62.692	31.077	0.00	0.00
ATOM	2031	NH1	ARG	X	132	60.433	63.579	30.431	0.00	0.00
ATOM	2032	HH11	ARG	X	132	60.738	63.294	29.511	0.00	0.00
ATOM	2033	HH12	ARG	X	132	60.847	64.395	30.859	0.00	0.00
ATOM	2034	NH2	ARG	X	132	59.483	62.813	32.357	0.00	0.00
ATOM	2035	HH21	ARG	X	132	59.066	62.034	32.848	0.00	0.00
ATOM	2036	HH22	ARG	X	132	59.965	63.496	32.923	0.00	0.00
ATOM	2037	C	ARG	X	132	54.842	60.389	27.223	0.00	0.00
ATOM	2038	O	ARG	X	132	54.321	61.011	26.323	0.00	0.00
ATOM	2039	N	PHE	X	133	55.373	59.184	26.962	0.00	0.00
ATOM	2040	H	PHE	X	133	55.767	58.669	27.736	0.00	0.00
ATOM	2041	CA	PHE	X	133	55.273	58.438	25.662	0.00	0.00
ATOM	2042	HA	PHE	X	133	55.794	59.162	25.036	0.00	0.00
ATOM	2043	CB	PHE	X	133	56.043	57.123	25.548	0.00	0.00
ATOM	2044	HB2	PHE	X	133	55.597	56.404	26.235	0.00	0.00
ATOM	2045	HB3	PHE	X	133	56.070	56.743	24.526	0.00	0.00
ATOM	2046	CG	PHE	X	133	57.567	57.266	25.834	0.00	0.00
ATOM	2047	CD1	PHE	X	133	58.079	56.827	27.095	0.00	0.00
ATOM	2048	HD1	PHE	X	133	57.385	56.432	27.822	0.00	0.00
ATOM	2049	CE1	PHE	X	133	59.486	56.943	27.355	0.00	0.00
ATOM	2050	HE1	PHE	X	133	60.023	56.587	28.221	0.00	0.00
ATOM	2051	CZ	PHE	X	133	60.323	57.501	26.396	0.00	0.00
ATOM	2052	HZ	PHE	X	133	61.399	57.557	26.474	0.00	0.00
ATOM	2053	CE2	PHE	X	133	59.803	57.934	25.213	0.00	0.00
ATOM	2054	HE2	PHE	X	133	60.459	58.076	24.367	0.00	0.00
ATOM	2055	CD2	PHE	X	133	58.440	57.727	24.894	0.00	0.00
ATOM	2056	HD2	PHE	X	133	58.178	57.952	23.871	0.00	0.00
ATOM	2057	C	PHE	X	133	53.859	58.135	25.178	0.00	0.00
ATOM	2058	O	PHE	X	133	53.611	58.563	24.037	0.00	0.00
ATOM	2059	N	LEU	X	134	52.954	57.579	26.042	0.00	0.00
ATOM	2060	H	LEU	X	134	53.283	57.188	26.913	0.00	0.00
ATOM	2061	CA	LEU	X	134	51.529	57.319	25.781	0.00	0.00
ATOM	2062	HA	LEU	X	134	51.461	56.891	24.780	0.00	0.00
ATOM	2063	CB	LEU	X	134	51.089	56.176	26.762	0.00	0.00
ATOM	2064	HB2	LEU	X	134	51.599	55.251	26.493	0.00	0.00
ATOM	2065	HB3	LEU	X	134	51.415	56.505	27.749	0.00	0.00
ATOM	2066	CG	LEU	X	134	49.585	55.832	26.965	0.00	0.00
ATOM	2067	HG	LEU	X	134	49.096	56.806	26.957	0.00	0.00
ATOM	2068	CD1	LEU	X	134	49.121	54.954	25.748	0.00	0.00

ATOM	2069	HD11	LEU	X	134	48.047	54.792	25.836	0.00	0.00
ATOM	2070	HD12	LEU	X	134	49.137	55.599	24.869	0.00	0.00
ATOM	2071	HD13	LEU	X	134	49.663	54.015	25.629	0.00	0.00
ATOM	2072	CD2	LEU	X	134	49.443	55.140	28.267	0.00	0.00
ATOM	2073	HD21	LEU	X	134	49.714	55.762	29.121	0.00	0.00
ATOM	2074	HD22	LEU	X	134	48.406	54.839	28.415	0.00	0.00
ATOM	2075	HD23	LEU	X	134	49.956	54.183	28.172	0.00	0.00
ATOM	2076	C	LEU	X	134	50.605	58.488	25.867	0.00	0.00
ATOM	2077	O	LEU	X	134	49.694	58.446	25.070	0.00	0.00
ATOM	2078	N	VAL	X	135	50.909	59.502	26.663	0.00	0.00
ATOM	2079	H	VAL	X	135	51.688	59.313	27.277	0.00	0.00
ATOM	2080	CA	VAL	X	135	50.330	60.885	26.577	0.00	0.00
ATOM	2081	HA	VAL	X	135	49.249	60.754	26.627	0.00	0.00
ATOM	2082	CB	VAL	X	135	50.770	61.731	27.728	0.00	0.00
ATOM	2083	HB	VAL	X	135	51.855	61.813	27.657	0.00	0.00
ATOM	2084	CG1	VAL	X	135	50.110	63.251	27.847	0.00	0.00
ATOM	2085	HG11	VAL	X	135	49.026	63.144	27.888	0.00	0.00
ATOM	2086	HG12	VAL	X	135	50.368	63.789	28.759	0.00	0.00
ATOM	2087	HG13	VAL	X	135	50.352	63.968	27.063	0.00	0.00
ATOM	2088	CG2	VAL	X	135	50.337	61.165	29.092	0.00	0.00
ATOM	2089	HG21	VAL	X	135	50.683	61.858	29.859	0.00	0.00
ATOM	2090	HG22	VAL	X	135	49.275	61.333	29.267	0.00	0.00
ATOM	2091	HG23	VAL	X	135	50.619	60.142	29.343	0.00	0.00
ATOM	2092	C	VAL	X	135	50.659	61.618	25.223	0.00	0.00
ATOM	2093	O	VAL	X	135	50.015	62.549	24.883	0.00	0.00
ATOM	2094	N	GLN	X	136	51.746	61.275	24.534	0.00	0.00
ATOM	2095	H	GLN	X	136	52.440	60.635	24.893	0.00	0.00
ATOM	2096	CA	GLN	X	136	52.140	61.867	23.199	0.00	0.00
ATOM	2097	HA	GLN	X	136	51.820	62.902	23.080	0.00	0.00
ATOM	2098	CB	GLN	X	136	53.678	61.820	23.058	0.00	0.00
ATOM	2099	HB2	GLN	X	136	54.126	62.446	23.830	0.00	0.00
ATOM	2100	HB3	GLN	X	136	54.164	60.847	23.118	0.00	0.00
ATOM	2101	CG	GLN	X	136	54.138	62.348	21.668	0.00	0.00
ATOM	2102	HG2	GLN	X	136	53.644	63.273	21.372	0.00	0.00
ATOM	2103	HG3	GLN	X	136	55.147	62.674	21.924	0.00	0.00
ATOM	2104	CD	GLN	X	136	54.181	61.355	20.520	0.00	0.00
ATOM	2105	OE1	GLN	X	136	54.374	60.128	20.657	0.00	0.00
ATOM	2106	NE2	GLN	X	136	54.024	61.864	19.263	0.00	0.00
ATOM	2107	HE21	GLN	X	136	54.148	61.221	18.494	0.00	0.00
ATOM	2108	HE22	GLN	X	136	53.771	62.830	19.114	0.00	0.00
ATOM	2109	C	GLN	X	136	51.407	60.938	22.107	0.00	0.00
ATOM	2110	O	GLN	X	136	50.759	61.517	21.211	0.00	0.00
ATOM	2111	N	ALA	X	137	51.513	59.664	22.227	0.00	0.00
ATOM	2112	H	ALA	X	137	52.128	59.370	22.972	0.00	0.00
ATOM	2113	CA	ALA	X	137	51.150	58.622	21.287	0.00	0.00
ATOM	2114	HA	ALA	X	137	51.587	58.808	20.306	0.00	0.00
ATOM	2115	CB	ALA	X	137	51.599	57.190	21.736	0.00	0.00
ATOM	2116	HB1	ALA	X	137	51.404	56.501	20.914	0.00	0.00
ATOM	2117	HB2	ALA	X	137	52.679	57.135	21.876	0.00	0.00
ATOM	2118	HB3	ALA	X	137	51.119	56.830	22.646	0.00	0.00
ATOM	2119	C	ALA	X	137	49.590	58.539	21.091	0.00	0.00
ATOM	2120	O	ALA	X	137	49.061	58.634	20.003	0.00	0.00
ATOM	2121	N	GLU	X	138	48.857	58.359	22.243	0.00	0.00
ATOM	2122	H	GLU	X	138	49.331	58.281	23.131	0.00	0.00
ATOM	2123	CA	GLU	X	138	47.369	58.229	22.132	0.00	0.00
ATOM	2124	HA	GLU	X	138	47.141	58.031	21.085	0.00	0.00
ATOM	2125	CB	GLU	X	138	46.992	56.935	22.859	0.00	0.00
ATOM	2126	HB2	GLU	X	138	47.426	57.079	23.848	0.00	0.00
ATOM	2127	HB3	GLU	X	138	45.904	56.923	22.913	0.00	0.00
ATOM	2128	CG	GLU	X	138	47.490	55.623	22.202	0.00	0.00
ATOM	2129	HG2	GLU	X	138	48.565	55.632	22.026	0.00	0.00
ATOM	2130	HG3	GLU	X	138	47.432	54.830	22.948	0.00	0.00
ATOM	2131	CD	GLU	X	138	46.800	55.251	20.927	0.00	0.00
ATOM	2132	OE1	GLU	X	138	45.568	55.300	20.914	0.00	0.00
ATOM	2133	OE2	GLU	X	138	47.366	55.266	19.803	0.00	0.00
ATOM	2134	C	GLU	X	138	46.493	59.356	22.758	0.00	0.00
ATOM	2135	O	GLU	X	138	45.257	59.435	22.520	0.00	0.00
ATOM	2136	N	ARG	X	139	47.162	60.166	23.658	0.00	0.00
ATOM	2137	H	ARG	X	139	48.086	59.870	23.939	0.00	0.00
ATOM	2138	CA	ARG	X	139	46.695	61.431	24.208	0.00	0.00

ATOM	2139	HA	ARG	X	139	47.534	61.996	24.615	0.00	0.00
ATOM	2140	CB	ARG	X	139	46.107	62.293	23.018	0.00	0.00
ATOM	2141	HB2	ARG	X	139	45.264	61.826	22.509	0.00	0.00
ATOM	2142	HB3	ARG	X	139	45.713	63.234	23.401	0.00	0.00
ATOM	2143	CG	ARG	X	139	47.280	62.538	21.987	0.00	0.00
ATOM	2144	HG2	ARG	X	139	48.048	63.214	22.365	0.00	0.00
ATOM	2145	HG3	ARG	X	139	47.735	61.611	21.640	0.00	0.00
ATOM	2146	CD	ARG	X	139	46.786	63.363	20.782	0.00	0.00
ATOM	2147	HD2	ARG	X	139	47.709	63.475	20.213	0.00	0.00
ATOM	2148	HD3	ARG	X	139	45.969	62.810	20.319	0.00	0.00
ATOM	2149	NE	ARG	X	139	46.219	64.706	21.106	0.00	0.00
ATOM	2150	HE	ARG	X	139	45.223	64.837	21.207	0.00	0.00
ATOM	2151	CZ	ARG	X	139	46.910	65.907	21.216	0.00	0.00
ATOM	2152	NH1	ARG	X	139	48.227	65.911	21.026	0.00	0.00
ATOM	2153	HH11	ARG	X	139	48.623	64.998	20.852	0.00	0.00
ATOM	2154	HH12	ARG	X	139	48.756	66.771	21.037	0.00	0.00
ATOM	2155	NH2	ARG	X	139	46.198	67.022	21.383	0.00	0.00
ATOM	2156	HH21	ARG	X	139	45.201	66.891	21.469	0.00	0.00
ATOM	2157	HH22	ARG	X	139	46.661	67.919	21.429	0.00	0.00
ATOM	2158	C	ARG	X	139	45.662	61.283	25.361	0.00	0.00
ATOM	2159	O	ARG	X	139	44.938	62.242	25.645	0.00	0.00
ATOM	2160	N	THR	X	140	45.426	60.078	25.901	0.00	0.00
ATOM	2161	H	THR	X	140	45.883	59.250	25.545	0.00	0.00
ATOM	2162	CA	THR	X	140	44.706	59.734	27.173	0.00	0.00
ATOM	2163	HA	THR	X	140	43.773	60.297	27.199	0.00	0.00
ATOM	2164	CB	THR	X	140	44.503	58.145	27.156	0.00	0.00
ATOM	2165	HB	THR	X	140	44.355	57.733	28.154	0.00	0.00
ATOM	2166	CG2	THR	X	140	43.362	57.827	26.199	0.00	0.00
ATOM	2167	HG21	THR	X	140	42.790	56.986	26.591	0.00	0.00
ATOM	2168	HG22	THR	X	140	42.645	58.623	25.998	0.00	0.00
ATOM	2169	HG23	THR	X	140	43.706	57.546	25.204	0.00	0.00
ATOM	2170	OG1	THR	X	140	45.746	57.602	26.756	0.00	0.00
ATOM	2171	HG1	THR	X	140	46.464	57.951	27.289	0.00	0.00
ATOM	2172	C	THR	X	140	45.444	60.207	28.383	0.00	0.00
ATOM	2173	O	THR	X	140	46.622	59.829	28.446	0.00	0.00
ATOM	2174	N	VAL	X	141	44.802	60.954	29.258	0.00	0.00
ATOM	2175	H	VAL	X	141	43.819	61.085	29.067	0.00	0.00
ATOM	2176	CA	VAL	X	141	45.418	61.775	30.350	0.00	0.00
ATOM	2177	HA	VAL	X	141	46.263	62.310	29.916	0.00	0.00
ATOM	2178	CB	VAL	X	141	44.449	62.708	31.006	0.00	0.00
ATOM	2179	HB	VAL	X	141	43.556	62.153	31.295	0.00	0.00
ATOM	2180	CG1	VAL	X	141	45.025	63.404	32.288	0.00	0.00
ATOM	2181	HG11	VAL	X	141	45.512	62.622	32.869	0.00	0.00
ATOM	2182	HG12	VAL	X	141	45.651	64.271	32.078	0.00	0.00
ATOM	2183	HG13	VAL	X	141	44.233	63.781	32.936	0.00	0.00
ATOM	2184	CG2	VAL	X	141	44.072	63.836	30.019	0.00	0.00
ATOM	2185	HG21	VAL	X	141	45.002	64.174	29.563	0.00	0.00
ATOM	2186	HG22	VAL	X	141	43.345	63.406	29.330	0.00	0.00
ATOM	2187	HG23	VAL	X	141	43.639	64.662	30.584	0.00	0.00
ATOM	2188	C	VAL	X	141	45.905	60.683	31.358	0.00	0.00
ATOM	2189	O	VAL	X	141	45.131	60.051	32.020	0.00	0.00
ATOM	2190	N	LEU	X	142	47.255	60.629	31.561	0.00	0.00
ATOM	2191	H	LEU	X	142	47.896	61.320	31.197	0.00	0.00
ATOM	2192	CA	LEU	X	142	47.861	59.599	32.460	0.00	0.00
ATOM	2193	HA	LEU	X	142	47.200	58.733	32.436	0.00	0.00
ATOM	2194	CB	LEU	X	142	49.212	59.064	32.042	0.00	0.00
ATOM	2195	HB2	LEU	X	142	49.050	58.739	31.014	0.00	0.00
ATOM	2196	HB3	LEU	X	142	49.954	59.862	32.080	0.00	0.00
ATOM	2197	CG	LEU	X	142	49.898	57.905	32.880	0.00	0.00
ATOM	2198	HG	LEU	X	142	50.604	57.533	32.138	0.00	0.00
ATOM	2199	CD1	LEU	X	142	50.705	58.415	34.108	0.00	0.00
ATOM	2200	HD11	LEU	X	142	51.465	59.143	33.820	0.00	0.00
ATOM	2201	HD12	LEU	X	142	50.010	58.914	34.784	0.00	0.00
ATOM	2202	HD13	LEU	X	142	51.246	57.589	34.569	0.00	0.00
ATOM	2203	CD2	LEU	X	142	48.968	56.725	33.296	0.00	0.00
ATOM	2204	HD21	LEU	X	142	49.686	55.966	33.607	0.00	0.00
ATOM	2205	HD22	LEU	X	142	48.358	57.090	34.122	0.00	0.00
ATOM	2206	HD23	LEU	X	142	48.372	56.305	32.486	0.00	0.00
ATOM	2207	C	LEU	X	142	47.911	60.174	33.931	0.00	0.00
ATOM	2208	O	LEU	X	142	48.567	61.189	34.138	0.00	0.00

ATOM	2209	N	VAL	X	143	47.182	59.507	34.859	0.00	0.00
ATOM	2210	H	VAL	X	143	46.557	58.813	34.475	0.00	0.00
ATOM	2211	CA	VAL	X	143	47.219	59.870	36.275	0.00	0.00
ATOM	2212	HA	VAL	X	143	47.727	60.825	36.411	0.00	0.00
ATOM	2213	CB	VAL	X	143	45.807	60.154	36.691	0.00	0.00
ATOM	2214	HB	VAL	X	143	45.233	59.237	36.556	0.00	0.00
ATOM	2215	CG1	VAL	X	143	45.718	60.560	38.206	0.00	0.00
ATOM	2216	HG11	VAL	X	143	44.707	60.795	38.537	0.00	0.00
ATOM	2217	HG12	VAL	X	143	46.132	59.788	38.856	0.00	0.00
ATOM	2218	HG13	VAL	X	143	46.268	61.479	38.408	0.00	0.00
ATOM	2219	CG2	VAL	X	143	45.087	61.293	35.860	0.00	0.00
ATOM	2220	HG21	VAL	X	143	44.158	61.645	36.308	0.00	0.00
ATOM	2221	HG22	VAL	X	143	45.849	62.068	35.775	0.00	0.00
ATOM	2222	HG23	VAL	X	143	44.903	60.858	34.878	0.00	0.00
ATOM	2223	C	VAL	X	143	47.926	58.823	37.131	0.00	0.00
ATOM	2224	O	VAL	X	143	47.810	57.567	36.858	0.00	0.00
ATOM	2225	N	SER	X	144	48.560	59.204	38.244	0.00	0.00
ATOM	2226	H	SER	X	144	48.472	60.178	38.500	0.00	0.00
ATOM	2227	CA	SER	X	144	49.255	58.325	39.163	0.00	0.00
ATOM	2228	HA	SER	X	144	48.733	57.369	39.207	0.00	0.00
ATOM	2229	CB	SER	X	144	50.631	58.089	38.572	0.00	0.00
ATOM	2230	HB2	SER	X	144	50.500	57.870	37.512	0.00	0.00
ATOM	2231	HB3	SER	X	144	51.247	58.960	38.795	0.00	0.00
ATOM	2232	OG	SER	X	144	51.297	56.886	39.077	0.00	0.00
ATOM	2233	HG	SER	X	144	52.098	56.877	38.547	0.00	0.00
ATOM	2234	C	SER	X	144	49.417	58.887	40.520	0.00	0.00
ATOM	2235	O	SER	X	144	49.538	60.040	40.761	0.00	0.00
ATOM	2236	N	MET	X	145	49.397	58.010	41.523	0.00	0.00
ATOM	2237	H	MET	X	145	49.329	57.025	41.306	0.00	0.00
ATOM	2238	CA	MET	X	145	49.086	58.459	42.934	0.00	0.00
ATOM	2239	HA	MET	X	145	49.272	59.530	43.013	0.00	0.00
ATOM	2240	CB	MET	X	145	47.562	58.295	43.159	0.00	0.00
ATOM	2241	HB2	MET	X	145	47.255	58.357	44.203	0.00	0.00
ATOM	2242	HB3	MET	X	145	47.044	59.134	42.694	0.00	0.00
ATOM	2243	CG	MET	X	145	46.887	57.049	42.490	0.00	0.00
ATOM	2244	HG2	MET	X	145	46.771	57.319	41.441	0.00	0.00
ATOM	2245	HG3	MET	X	145	47.649	56.269	42.471	0.00	0.00
ATOM	2246	SD	MET	X	145	45.397	56.271	43.066	0.00	0.00
ATOM	2247	CE	MET	X	145	44.261	57.438	42.257	0.00	0.00
ATOM	2248	HE1	MET	X	145	44.039	56.984	41.291	0.00	0.00
ATOM	2249	HE2	MET	X	145	43.356	57.459	42.865	0.00	0.00
ATOM	2250	HE3	MET	X	145	44.731	58.420	42.220	0.00	0.00
ATOM	2251	C	MET	X	145	49.916	57.808	43.958	0.00	0.00
ATOM	2252	O	MET	X	145	50.180	56.629	43.845	0.00	0.00
ATOM	2253	N	ASN	X	146	50.225	58.447	45.079	0.00	0.00
ATOM	2254	H	ASN	X	146	49.880	59.389	45.196	0.00	0.00
ATOM	2255	CA	ASN	X	146	50.750	57.851	46.299	0.00	0.00
ATOM	2256	HA	ASN	X	146	51.295	56.961	45.982	0.00	0.00
ATOM	2257	CB	ASN	X	146	51.748	58.805	46.965	0.00	0.00
ATOM	2258	HB2	ASN	X	146	51.232	59.705	47.297	0.00	0.00
ATOM	2259	HB3	ASN	X	146	52.144	58.406	47.898	0.00	0.00
ATOM	2260	CG	ASN	X	146	52.968	59.111	46.272	0.00	0.00
ATOM	2261	OD1	ASN	X	146	53.338	58.657	45.244	0.00	0.00
ATOM	2262	ND2	ASN	X	146	53.649	60.014	46.973	0.00	0.00
ATOM	2263	HD21	ASN	X	146	54.493	60.454	46.632	0.00	0.00
ATOM	2264	HD22	ASN	X	146	53.299	60.465	47.806	0.00	0.00
ATOM	2265	C	ASN	X	146	49.793	57.518	47.425	0.00	0.00
ATOM	2266	O	ASN	X	146	48.913	58.304	47.856	0.00	0.00
ATOM	2267	N	TYR	X	147	49.939	56.315	47.929	0.00	0.00
ATOM	2268	H	TYR	X	147	50.635	55.725	47.497	0.00	0.00
ATOM	2269	CA	TYR	X	147	49.016	55.761	48.970	0.00	0.00
ATOM	2270	HA	TYR	X	147	48.611	56.579	49.567	0.00	0.00
ATOM	2271	CB	TYR	X	147	47.884	54.853	48.305	0.00	0.00
ATOM	2272	HB2	TYR	X	147	47.479	54.141	49.024	0.00	0.00
ATOM	2273	HB3	TYR	X	147	47.125	55.589	48.040	0.00	0.00
ATOM	2274	CG	TYR	X	147	48.242	54.070	46.945	0.00	0.00
ATOM	2275	CD1	TYR	X	147	47.961	54.566	45.691	0.00	0.00
ATOM	2276	HD1	TYR	X	147	47.603	55.579	45.578	0.00	0.00
ATOM	2277	CE1	TYR	X	147	48.227	53.787	44.523	0.00	0.00
ATOM	2278	HE1	TYR	X	147	47.967	54.135	43.534	0.00	0.00

ATOM	2279	CZ	TYR	X	147	48.888	52.566	44.596	0.00	0.00
ATOM	2280	OH	TYR	X	147	49.031	51.834	43.470	0.00	0.00
ATOM	2281	HH	TYR	X	147	49.528	51.034	43.658	0.00	0.00
ATOM	2282	CE2	TYR	X	147	49.098	51.998	45.893	0.00	0.00
ATOM	2283	HE2	TYR	X	147	49.389	50.966	46.018	0.00	0.00
ATOM	2284	CD2	TYR	X	147	48.781	52.724	47.039	0.00	0.00
ATOM	2285	HD2	TYR	X	147	48.839	52.219	47.992	0.00	0.00
ATOM	2286	C	TYR	X	147	49.780	54.767	49.889	0.00	0.00
ATOM	2287	O	TYR	X	147	50.783	54.145	49.512	0.00	0.00
ATOM	2288	N	ARG	X	148	49.278	54.612	51.080	0.00	0.00
ATOM	2289	H	ARG	X	148	48.459	55.150	51.327	0.00	0.00
ATOM	2290	CA	ARG	X	148	49.790	53.703	52.143	0.00	0.00
ATOM	2291	HA	ARG	X	148	50.844	53.960	52.244	0.00	0.00
ATOM	2292	CB	ARG	X	148	49.134	54.167	53.461	0.00	0.00
ATOM	2293	HB2	ARG	X	148	48.053	54.277	53.371	0.00	0.00
ATOM	2294	HB3	ARG	X	148	49.336	53.416	54.224	0.00	0.00
ATOM	2295	CG	ARG	X	148	49.589	55.500	53.926	0.00	0.00
ATOM	2296	HG2	ARG	X	148	50.654	55.514	54.160	0.00	0.00
ATOM	2297	HG3	ARG	X	148	49.448	56.298	53.197	0.00	0.00
ATOM	2298	CD	ARG	X	148	48.940	56.010	55.185	0.00	0.00
ATOM	2299	HD2	ARG	X	148	49.054	55.224	55.932	0.00	0.00
ATOM	2300	HD3	ARG	X	148	49.439	56.971	55.306	0.00	0.00
ATOM	2301	NE	ARG	X	148	47.478	56.147	55.028	0.00	0.00
ATOM	2302	HE	ARG	X	148	47.193	56.168	54.060	0.00	0.00
ATOM	2303	CZ	ARG	X	148	46.510	56.187	55.910	0.00	0.00
ATOM	2304	NH1	ARG	X	148	46.740	56.182	57.198	0.00	0.00
ATOM	2305	HH11	ARG	X	148	47.698	56.274	57.504	0.00	0.00
ATOM	2306	HH12	ARG	X	148	45.934	56.305	57.794	0.00	0.00
ATOM	2307	NH2	ARG	X	148	45.198	56.199	55.514	0.00	0.00
ATOM	2308	HH21	ARG	X	148	44.946	56.188	54.536	0.00	0.00
ATOM	2309	HH22	ARG	X	148	44.466	56.300	56.202	0.00	0.00
ATOM	2310	C	ARG	X	148	49.695	52.255	51.867	0.00	0.00
ATOM	2311	O	ARG	X	148	48.786	51.758	51.185	0.00	0.00
ATOM	2312	N	VAL	X	149	50.770	51.570	52.315	0.00	0.00
ATOM	2313	H	VAL	X	149	51.464	52.087	52.835	0.00	0.00
ATOM	2314	CA	VAL	X	149	51.187	50.178	52.142	0.00	0.00
ATOM	2315	HA	VAL	X	149	50.324	49.565	51.882	0.00	0.00
ATOM	2316	CB	VAL	X	149	52.194	50.053	50.946	0.00	0.00
ATOM	2317	HB	VAL	X	149	52.612	49.051	50.848	0.00	0.00
ATOM	2318	CG1	VAL	X	149	51.668	50.407	49.535	0.00	0.00
ATOM	2319	HG11	VAL	X	149	52.062	49.672	48.834	0.00	0.00
ATOM	2320	HG12	VAL	X	149	50.583	50.329	49.468	0.00	0.00
ATOM	2321	HG13	VAL	X	149	52.072	51.353	49.173	0.00	0.00
ATOM	2322	CG2	VAL	X	149	53.514	50.850	51.088	0.00	0.00
ATOM	2323	HG21	VAL	X	149	54.084	50.338	51.863	0.00	0.00
ATOM	2324	HG22	VAL	X	149	54.177	50.698	50.236	0.00	0.00
ATOM	2325	HG23	VAL	X	149	53.397	51.879	51.431	0.00	0.00
ATOM	2326	C	VAL	X	149	51.889	49.532	53.371	0.00	0.00
ATOM	2327	O	VAL	X	149	52.450	50.295	54.200	0.00	0.00
ATOM	2328	N	GLY	X	150	51.898	48.175	53.416	0.00	0.00
ATOM	2329	H	GLY	X	150	51.566	47.676	52.603	0.00	0.00
ATOM	2330	CA	GLY	X	150	52.275	47.427	54.631	0.00	0.00
ATOM	2331	HA2	GLY	X	150	52.263	46.395	54.488	0.00	0.00
ATOM	2332	HA3	GLY	X	150	53.272	47.782	55.046	0.00	0.00
ATOM	2333	C	GLY	X	150	51.187	47.596	55.683	0.00	0.00
ATOM	2334	O	GLY	X	150	50.078	47.960	55.426	0.00	0.00
ATOM	2335	N	ALA	X	151	51.599	47.367	56.950	0.00	0.00
ATOM	2336	H	ALA	X	151	52.545	47.068	57.135	0.00	0.00
ATOM	2337	CA	ALA	X	151	50.775	47.778	58.106	0.00	0.00
ATOM	2338	HA	ALA	X	151	49.875	47.180	57.966	0.00	0.00
ATOM	2339	CB	ALA	X	151	51.547	47.445	59.405	0.00	0.00
ATOM	2340	HB1	ALA	X	151	52.502	46.933	59.286	0.00	0.00
ATOM	2341	HB2	ALA	X	151	51.723	48.330	60.017	0.00	0.00
ATOM	2342	HB3	ALA	X	151	50.869	46.806	59.969	0.00	0.00
ATOM	2343	C	ALA	X	151	50.343	49.257	58.048	0.00	0.00
ATOM	2344	O	ALA	X	151	49.204	49.503	58.383	0.00	0.00
ATOM	2345	N	PHE	X	152	51.160	50.212	57.652	0.00	0.00
ATOM	2346	H	PHE	X	152	52.141	50.016	57.514	0.00	0.00
ATOM	2347	CA	PHE	X	152	50.741	51.590	57.414	0.00	0.00
ATOM	2348	HA	PHE	X	152	50.419	51.899	58.409	0.00	0.00

ATOM	2349	CB	PHE	X	152	51.894	52.371	56.710	0.00	0.00
ATOM	2350	HB2	PHE	X	152	51.904	52.103	55.653	0.00	0.00
ATOM	2351	HB3	PHE	X	152	51.640	53.426	56.613	0.00	0.00
ATOM	2352	CG	PHE	X	152	53.253	52.174	57.345	0.00	0.00
ATOM	2353	CD1	PHE	X	152	54.060	51.073	56.934	0.00	0.00
ATOM	2354	HD1	PHE	X	152	53.737	50.304	56.248	0.00	0.00
ATOM	2355	CE1	PHE	X	152	55.315	50.835	57.564	0.00	0.00
ATOM	2356	HE1	PHE	X	152	55.898	49.993	57.223	0.00	0.00
ATOM	2357	CZ	PHE	X	152	55.716	51.564	58.656	0.00	0.00
ATOM	2358	HZ	PHE	X	152	56.674	51.349	59.106	0.00	0.00
ATOM	2359	CE2	PHE	X	152	54.885	52.627	59.116	0.00	0.00
ATOM	2360	HE2	PHE	X	152	55.106	53.304	59.928	0.00	0.00
ATOM	2361	CD2	PHE	X	152	53.628	52.902	58.497	0.00	0.00
ATOM	2362	HD2	PHE	X	152	52.997	53.597	59.030	0.00	0.00
ATOM	2363	C	PHE	X	152	49.450	51.816	56.659	0.00	0.00
ATOM	2364	O	PHE	X	152	48.587	52.753	56.913	0.00	0.00
ATOM	2365	N	GLY	X	153	49.169	51.090	55.609	0.00	0.00
ATOM	2366	H	GLY	X	153	49.797	50.381	55.259	0.00	0.00
ATOM	2367	CA	GLY	X	153	47.829	51.127	54.870	0.00	0.00
ATOM	2368	HA2	GLY	X	153	47.296	52.011	55.064	0.00	0.00
ATOM	2369	HA3	GLY	X	153	48.096	51.173	53.852	0.00	0.00
ATOM	2370	C	GLY	X	153	46.868	49.921	55.126	0.00	0.00
ATOM	2371	O	GLY	X	153	45.719	50.099	54.852	0.00	0.00
ATOM	2372	N	PHE	X	154	47.289	48.804	55.768	0.00	0.00
ATOM	2373	H	PHE	X	154	48.258	48.871	56.045	0.00	0.00
ATOM	2374	CA	PHE	X	154	46.591	47.566	55.615	0.00	0.00
ATOM	2375	HA	PHE	X	154	45.584	47.765	55.249	0.00	0.00
ATOM	2376	CB	PHE	X	154	47.237	46.760	54.451	0.00	0.00
ATOM	2377	HB2	PHE	X	154	48.321	46.671	54.517	0.00	0.00
ATOM	2378	HB3	PHE	X	154	46.790	45.766	54.456	0.00	0.00
ATOM	2379	CG	PHE	X	154	46.908	47.372	53.044	0.00	0.00
ATOM	2380	CD1	PHE	X	154	47.935	48.030	52.276	0.00	0.00
ATOM	2381	HD1	PHE	X	154	48.974	47.994	52.568	0.00	0.00
ATOM	2382	CE1	PHE	X	154	47.457	48.691	51.109	0.00	0.00
ATOM	2383	HE1	PHE	X	154	48.140	49.363	50.610	0.00	0.00
ATOM	2384	CZ	PHE	X	154	46.131	48.639	50.703	0.00	0.00
ATOM	2385	HZ	PHE	X	154	45.700	49.099	49.827	0.00	0.00
ATOM	2386	CE2	PHE	X	154	45.179	48.002	51.504	0.00	0.00
ATOM	2387	HE2	PHE	X	154	44.137	47.969	51.223	0.00	0.00
ATOM	2388	CD2	PHE	X	154	45.549	47.346	52.658	0.00	0.00
ATOM	2389	HD2	PHE	X	154	44.774	46.903	53.265	0.00	0.00
ATOM	2390	C	PHE	X	154	46.370	46.780	56.962	0.00	0.00
ATOM	2391	O	PHE	X	154	45.789	45.634	56.936	0.00	0.00
ATOM	2392	N	LEU	X	155	46.899	47.276	58.100	0.00	0.00
ATOM	2393	H	LEU	X	155	47.287	48.208	58.117	0.00	0.00
ATOM	2394	CA	LEU	X	155	46.399	46.877	59.380	0.00	0.00
ATOM	2395	HA	LEU	X	155	46.441	45.791	59.455	0.00	0.00
ATOM	2396	CB	LEU	X	155	47.373	47.490	60.466	0.00	0.00
ATOM	2397	HB2	LEU	X	155	48.386	47.235	60.155	0.00	0.00
ATOM	2398	HB3	LEU	X	155	47.324	48.577	60.528	0.00	0.00
ATOM	2399	CG	LEU	X	155	47.152	46.918	61.918	0.00	0.00
ATOM	2400	HG	LEU	X	155	46.520	46.035	61.828	0.00	0.00
ATOM	2401	CD1	LEU	X	155	48.458	46.482	62.558	0.00	0.00
ATOM	2402	HD11	LEU	X	155	49.069	47.308	62.922	0.00	0.00
ATOM	2403	HD12	LEU	X	155	48.297	45.833	63.419	0.00	0.00
ATOM	2404	HD13	LEU	X	155	49.089	45.947	61.848	0.00	0.00
ATOM	2405	CD2	LEU	X	155	46.357	47.724	62.809	0.00	0.00
ATOM	2406	HD21	LEU	X	155	46.923	48.629	63.028	0.00	0.00
ATOM	2407	HD22	LEU	X	155	45.435	48.054	62.330	0.00	0.00
ATOM	2408	HD23	LEU	X	155	46.053	47.152	63.686	0.00	0.00
ATOM	2409	C	LEU	X	155	44.963	47.384	59.595	0.00	0.00
ATOM	2410	O	LEU	X	155	44.656	48.518	59.152	0.00	0.00
ATOM	2411	N	ALA	X	156	44.175	46.599	60.275	0.00	0.00
ATOM	2412	H	ALA	X	156	44.668	45.809	60.667	0.00	0.00
ATOM	2413	CA	ALA	X	156	42.839	46.798	60.743	0.00	0.00
ATOM	2414	HA	ALA	X	156	42.455	47.785	60.486	0.00	0.00
ATOM	2415	CB	ALA	X	156	41.962	45.757	60.061	0.00	0.00
ATOM	2416	HB1	ALA	X	156	41.761	45.984	59.014	0.00	0.00
ATOM	2417	HB2	ALA	X	156	42.442	44.792	60.229	0.00	0.00
ATOM	2418	HB3	ALA	X	156	40.965	45.764	60.501	0.00	0.00

ATOM	2419	C	ALA	X	156	42.747	46.457	62.311	0.00	0.00
ATOM	2420	O	ALA	X	156	43.478	45.693	62.845	0.00	0.00
ATOM	2421	N	LEU	X	157	41.647	46.907	62.966	0.00	0.00
ATOM	2422	H	LEU	X	157	41.091	47.499	62.366	0.00	0.00
ATOM	2423	CA	LEU	X	157	41.032	46.424	64.199	0.00	0.00
ATOM	2424	HA	LEU	X	157	41.388	45.398	64.289	0.00	0.00
ATOM	2425	CB	LEU	X	157	41.595	47.208	65.388	0.00	0.00
ATOM	2426	HB2	LEU	X	157	42.659	47.019	65.527	0.00	0.00
ATOM	2427	HB3	LEU	X	157	41.499	48.294	65.369	0.00	0.00
ATOM	2428	CG	LEU	X	157	40.972	46.755	66.726	0.00	0.00
ATOM	2429	HG	LEU	X	157	39.882	46.745	66.714	0.00	0.00
ATOM	2430	CD1	LEU	X	157	41.292	45.401	67.309	0.00	0.00
ATOM	2431	HD11	LEU	X	157	42.316	45.314	67.673	0.00	0.00
ATOM	2432	HD12	LEU	X	157	40.626	45.288	68.165	0.00	0.00
ATOM	2433	HD13	LEU	X	157	41.052	44.510	66.728	0.00	0.00
ATOM	2434	CD2	LEU	X	157	41.325	47.783	67.810	0.00	0.00
ATOM	2435	HD21	LEU	X	157	42.362	47.578	68.075	0.00	0.00
ATOM	2436	HD22	LEU	X	157	41.160	48.845	67.628	0.00	0.00
ATOM	2437	HD23	LEU	X	157	40.754	47.482	68.689	0.00	0.00
ATOM	2438	C	LEU	X	157	39.454	46.639	64.053	0.00	0.00
ATOM	2439	O	LEU	X	157	38.951	47.668	64.551	0.00	0.00
ATOM	2440	N	PRO	X	158	38.747	45.783	63.315	0.00	0.00
ATOM	2441	CD	PRO	X	158	39.198	44.504	62.800	0.00	0.00
ATOM	2442	HD2	PRO	X	158	39.552	43.829	63.580	0.00	0.00
ATOM	2443	HD3	PRO	X	158	39.970	44.521	62.031	0.00	0.00
ATOM	2444	CG	PRO	X	158	37.976	43.800	62.263	0.00	0.00
ATOM	2445	HG2	PRO	X	158	37.541	43.183	63.050	0.00	0.00
ATOM	2446	HG3	PRO	X	158	38.050	43.299	61.298	0.00	0.00
ATOM	2447	CB	PRO	X	158	37.030	44.931	61.840	0.00	0.00
ATOM	2448	HB2	PRO	X	158	35.990	44.665	62.027	0.00	0.00
ATOM	2449	HB3	PRO	X	158	37.080	45.247	60.798	0.00	0.00
ATOM	2450	CA	PRO	X	158	37.428	46.041	62.825	0.00	0.00
ATOM	2451	HA	PRO	X	158	37.357	46.973	62.264	0.00	0.00
ATOM	2452	C	PRO	X	158	36.401	46.071	63.973	0.00	0.00
ATOM	2453	O	PRO	X	158	36.611	45.336	64.936	0.00	0.00
ATOM	2454	N	GLY	X	159	35.356	46.828	63.791	0.00	0.00
ATOM	2455	H	GLY	X	159	35.384	47.444	62.992	0.00	0.00
ATOM	2456	CA	GLY	X	159	34.298	47.081	64.781	0.00	0.00
ATOM	2457	HA2	GLY	X	159	33.387	47.382	64.297	0.00	0.00
ATOM	2458	HA3	GLY	X	159	34.214	46.209	65.422	0.00	0.00
ATOM	2459	C	GLY	X	159	34.606	48.350	65.655	0.00	0.00
ATOM	2460	O	GLY	X	159	33.875	48.621	66.597	0.00	0.00
ATOM	2461	N	SER	X	160	35.681	49.203	65.328	0.00	0.00
ATOM	2462	H	SER	X	160	36.072	49.010	64.417	0.00	0.00
ATOM	2463	CA	SER	X	160	36.267	50.264	66.042	0.00	0.00
ATOM	2464	HA	SER	X	160	35.801	50.315	67.025	0.00	0.00
ATOM	2465	CB	SER	X	160	37.787	49.900	66.303	0.00	0.00
ATOM	2466	HB2	SER	X	160	38.137	50.359	67.227	0.00	0.00
ATOM	2467	HB3	SER	X	160	37.811	48.819	66.442	0.00	0.00
ATOM	2468	OG	SER	X	160	38.736	50.333	65.252	0.00	0.00
ATOM	2469	HG	SER	X	160	39.063	49.549	64.804	0.00	0.00
ATOM	2470	C	SER	X	160	36.041	51.645	65.416	0.00	0.00
ATOM	2471	O	SER	X	160	35.848	51.705	64.203	0.00	0.00
ATOM	2472	N	ARG	X	161	36.233	52.702	66.173	0.00	0.00
ATOM	2473	H	ARG	X	161	36.449	52.564	67.150	0.00	0.00
ATOM	2474	CA	ARG	X	161	36.483	54.056	65.582	0.00	0.00
ATOM	2475	HA	ARG	X	161	36.122	54.003	64.555	0.00	0.00
ATOM	2476	CB	ARG	X	161	35.785	55.146	66.392	0.00	0.00
ATOM	2477	HB2	ARG	X	161	36.361	55.319	67.302	0.00	0.00
ATOM	2478	HB3	ARG	X	161	35.858	56.102	65.873	0.00	0.00
ATOM	2479	CG	ARG	X	161	34.349	54.836	66.776	0.00	0.00
ATOM	2480	HG2	ARG	X	161	33.761	54.536	65.908	0.00	0.00
ATOM	2481	HG3	ARG	X	161	34.364	54.022	67.502	0.00	0.00
ATOM	2482	CD	ARG	X	161	33.631	56.038	67.391	0.00	0.00
ATOM	2483	HD2	ARG	X	161	33.692	56.847	66.663	0.00	0.00
ATOM	2484	HD3	ARG	X	161	32.562	55.847	67.488	0.00	0.00
ATOM	2485	NE	ARG	X	161	34.269	56.449	68.706	0.00	0.00
ATOM	2486	HE	ARG	X	161	33.965	55.924	69.514	0.00	0.00
ATOM	2487	CZ	ARG	X	161	34.990	57.543	68.984	0.00	0.00
ATOM	2488	NH1	ARG	X	161	35.203	58.372	67.983	0.00	0.00

ATOM	2489	HH11	ARG	X	161	34.853	58.278	67.040	0.00	0.00
ATOM	2490	HH12	ARG	X	161	35.524	59.288	68.263	0.00	0.00
ATOM	2491	NH2	ARG	X	161	35.318	57.824	70.168	0.00	0.00
ATOM	2492	HH21	ARG	X	161	34.728	57.435	70.889	0.00	0.00
ATOM	2493	HH22	ARG	X	161	35.804	58.692	70.340	0.00	0.00
ATOM	2494	C	ARG	X	161	38.027	54.396	65.524	0.00	0.00
ATOM	2495	O	ARG	X	161	38.416	55.325	64.787	0.00	0.00
ATOM	2496	N	GLU	X	162	38.822	53.641	66.306	0.00	0.00
ATOM	2497	H	GLU	X	162	38.272	53.074	66.935	0.00	0.00
ATOM	2498	CA	GLU	X	162	40.164	53.729	66.561	0.00	0.00
ATOM	2499	HA	GLU	X	162	40.316	54.803	66.668	0.00	0.00
ATOM	2500	CB	GLU	X	162	40.438	52.963	67.908	0.00	0.00
ATOM	2501	HB2	GLU	X	162	39.988	51.970	67.896	0.00	0.00
ATOM	2502	HB3	GLU	X	162	41.517	53.001	68.059	0.00	0.00
ATOM	2503	CG	GLU	X	162	39.842	53.815	69.098	0.00	0.00
ATOM	2504	HG2	GLU	X	162	40.500	53.804	69.967	0.00	0.00
ATOM	2505	HG3	GLU	X	162	39.658	54.820	68.718	0.00	0.00
ATOM	2506	CD	GLU	X	162	38.477	53.395	69.420	0.00	0.00
ATOM	2507	OE1	GLU	X	162	37.836	52.773	68.461	0.00	0.00
ATOM	2508	OE2	GLU	X	162	38.012	53.634	70.563	0.00	0.00
ATOM	2509	C	GLU	X	162	41.070	53.258	65.373	0.00	0.00
ATOM	2510	O	GLU	X	162	42.130	53.821	65.165	0.00	0.00
ATOM	2511	N	ALA	X	163	40.698	52.238	64.547	0.00	0.00
ATOM	2512	H	ALA	X	163	39.771	51.872	64.710	0.00	0.00
ATOM	2513	CA	ALA	X	163	41.415	51.522	63.498	0.00	0.00
ATOM	2514	HA	ALA	X	163	41.801	52.361	62.920	0.00	0.00
ATOM	2515	CB	ALA	X	163	42.677	50.855	64.067	0.00	0.00
ATOM	2516	HB1	ALA	X	163	43.206	51.527	64.744	0.00	0.00
ATOM	2517	HB2	ALA	X	163	42.390	50.002	64.681	0.00	0.00
ATOM	2518	HB3	ALA	X	163	43.321	50.436	63.295	0.00	0.00
ATOM	2519	C	ALA	X	163	40.461	50.644	62.633	0.00	0.00
ATOM	2520	O	ALA	X	163	40.482	49.403	62.666	0.00	0.00
ATOM	2521	N	PRO	X	164	39.638	51.265	61.746	0.00	0.00
ATOM	2522	CD	PRO	X	164	39.652	52.693	61.395	0.00	0.00
ATOM	2523	HD2	PRO	X	164	40.573	52.914	60.855	0.00	0.00
ATOM	2524	HD3	PRO	X	164	39.707	53.313	62.290	0.00	0.00
ATOM	2525	CG	PRO	X	164	38.374	52.944	60.499	0.00	0.00
ATOM	2526	HG2	PRO	X	164	38.515	53.783	59.818	0.00	0.00
ATOM	2527	HG3	PRO	X	164	37.505	53.189	61.109	0.00	0.00
ATOM	2528	CB	PRO	X	164	38.075	51.631	59.752	0.00	0.00
ATOM	2529	HB2	PRO	X	164	38.516	51.640	58.755	0.00	0.00
ATOM	2530	HB3	PRO	X	164	36.999	51.522	59.617	0.00	0.00
ATOM	2531	CA	PRO	X	164	38.778	50.556	60.779	0.00	0.00
ATOM	2532	HA	PRO	X	164	37.981	50.024	61.299	0.00	0.00
ATOM	2533	C	PRO	X	164	39.424	49.534	59.830	0.00	0.00
ATOM	2534	O	PRO	X	164	38.978	48.407	59.805	0.00	0.00
ATOM	2535	N	GLY	X	165	40.505	49.866	59.159	0.00	0.00
ATOM	2536	H	GLY	X	165	40.761	50.843	59.163	0.00	0.00
ATOM	2537	CA	GLY	X	165	41.298	48.912	58.296	0.00	0.00
ATOM	2538	HA2	GLY	X	165	42.410	48.880	58.412	0.00	0.00
ATOM	2539	HA3	GLY	X	165	40.891	47.926	58.565	0.00	0.00
ATOM	2540	C	GLY	X	165	41.216	49.292	56.818	0.00	0.00
ATOM	2541	O	GLY	X	165	40.406	50.134	56.523	0.00	0.00
ATOM	2542	N	ASN	X	166	41.992	48.780	55.903	0.00	0.00
ATOM	2543	H	ASN	X	166	42.454	47.916	56.149	0.00	0.00
ATOM	2544	CA	ASN	X	166	41.931	49.094	54.511	0.00	0.00
ATOM	2545	HA	ASN	X	166	42.828	48.610	54.124	0.00	0.00
ATOM	2546	CB	ASN	X	166	40.652	48.537	53.748	0.00	0.00
ATOM	2547	HB2	ASN	X	166	39.809	49.135	54.095	0.00	0.00
ATOM	2548	HB3	ASN	X	166	40.799	48.731	52.686	0.00	0.00
ATOM	2549	CG	ASN	X	166	40.535	47.039	54.065	0.00	0.00
ATOM	2550	OD1	ASN	X	166	41.464	46.260	53.869	0.00	0.00
ATOM	2551	ND2	ASN	X	166	39.434	46.679	54.745	0.00	0.00
ATOM	2552	HD21	ASN	X	166	39.265	45.699	54.924	0.00	0.00
ATOM	2553	HD22	ASN	X	166	38.774	47.341	55.127	0.00	0.00
ATOM	2554	C	ASN	X	166	42.162	50.575	54.149	0.00	0.00
ATOM	2555	O	ASN	X	166	41.830	51.064	53.065	0.00	0.00
ATOM	2556	N	VAL	X	167	42.854	51.270	55.042	0.00	0.00
ATOM	2557	H	VAL	X	167	43.099	50.768	55.883	0.00	0.00
ATOM	2558	CA	VAL	X	167	43.080	52.712	54.981	0.00	0.00

ATOM	2559	HA	VAL	X	167	42.088	53.137	54.830	0.00	0.00
ATOM	2560	CB	VAL	X	167	43.564	53.210	56.349	0.00	0.00
ATOM	2561	HB	VAL	X	167	43.792	54.274	56.274	0.00	0.00
ATOM	2562	CG1	VAL	X	167	42.417	53.085	57.408	0.00	0.00
ATOM	2563	HG11	VAL	X	167	41.530	53.637	57.100	0.00	0.00
ATOM	2564	HG12	VAL	X	167	42.357	52.003	57.523	0.00	0.00
ATOM	2565	HG13	VAL	X	167	42.757	53.555	58.331	0.00	0.00
ATOM	2566	CG2	VAL	X	167	44.852	52.486	56.847	0.00	0.00
ATOM	2567	HG21	VAL	X	167	44.800	51.407	56.991	0.00	0.00
ATOM	2568	HG22	VAL	X	167	45.615	52.603	56.077	0.00	0.00
ATOM	2569	HG23	VAL	X	167	45.056	52.921	57.825	0.00	0.00
ATOM	2570	C	VAL	X	167	43.908	53.095	53.767	0.00	0.00
ATOM	2571	O	VAL	X	167	43.576	54.103	53.150	0.00	0.00
ATOM	2572	N	GLY	X	168	44.865	52.271	53.329	0.00	0.00
ATOM	2573	H	GLY	X	168	45.021	51.363	53.744	0.00	0.00
ATOM	2574	CA	GLY	X	168	45.620	52.575	52.093	0.00	0.00
ATOM	2575	HA2	GLY	X	168	46.067	53.572	52.137	0.00	0.00
ATOM	2576	HA3	GLY	X	168	46.438	51.842	52.141	0.00	0.00
ATOM	2577	C	GLY	X	168	44.877	52.400	50.747	0.00	0.00
ATOM	2578	O	GLY	X	168	45.475	52.854	49.745	0.00	0.00
ATOM	2579	N	LEU	X	169	43.573	51.936	50.728	0.00	0.00
ATOM	2580	H	LEU	X	169	43.180	51.586	51.590	0.00	0.00
ATOM	2581	CA	LEU	X	169	42.594	51.979	49.687	0.00	0.00
ATOM	2582	HA	LEU	X	169	43.173	52.079	48.769	0.00	0.00
ATOM	2583	CB	LEU	X	169	41.744	50.707	49.712	0.00	0.00
ATOM	2584	HB2	LEU	X	169	41.445	50.445	50.727	0.00	0.00
ATOM	2585	HB3	LEU	X	169	40.787	50.853	49.212	0.00	0.00
ATOM	2586	CG	LEU	X	169	42.287	49.425	49.025	0.00	0.00
ATOM	2587	HG	LEU	X	169	43.310	49.359	49.393	0.00	0.00
ATOM	2588	CD1	LEU	X	169	41.526	48.147	49.533	0.00	0.00
ATOM	2589	HD11	LEU	X	169	40.479	48.222	49.240	0.00	0.00
ATOM	2590	HD12	LEU	X	169	42.065	47.289	49.131	0.00	0.00
ATOM	2591	HD13	LEU	X	169	41.702	48.253	50.604	0.00	0.00
ATOM	2592	CD2	LEU	X	169	42.489	49.536	47.501	0.00	0.00
ATOM	2593	HD21	LEU	X	169	42.952	48.668	47.033	0.00	0.00
ATOM	2594	HD22	LEU	X	169	41.546	49.700	46.980	0.00	0.00
ATOM	2595	HD23	LEU	X	169	43.076	50.420	47.250	0.00	0.00
ATOM	2596	C	LEU	X	169	41.703	53.236	49.778	0.00	0.00
ATOM	2597	O	LEU	X	169	41.321	53.858	48.825	0.00	0.00
ATOM	2598	N	LEU	X	170	41.371	53.621	50.999	0.00	0.00
ATOM	2599	H	LEU	X	170	41.754	53.137	51.799	0.00	0.00
ATOM	2600	CA	LEU	X	170	40.585	54.840	51.282	0.00	0.00
ATOM	2601	HA	LEU	X	170	39.666	54.797	50.698	0.00	0.00
ATOM	2602	CB	LEU	X	170	40.162	54.870	52.742	0.00	0.00
ATOM	2603	HB2	LEU	X	170	41.063	54.832	53.355	0.00	0.00
ATOM	2604	HB3	LEU	X	170	39.717	55.833	52.993	0.00	0.00
ATOM	2605	CG	LEU	X	170	39.122	53.819	53.268	0.00	0.00
ATOM	2606	HG	LEU	X	170	39.615	52.852	53.165	0.00	0.00
ATOM	2607	CD1	LEU	X	170	38.883	53.891	54.779	0.00	0.00
ATOM	2608	HD11	LEU	X	170	38.205	53.148	55.199	0.00	0.00
ATOM	2609	HD12	LEU	X	170	39.891	53.877	55.194	0.00	0.00
ATOM	2610	HD13	LEU	X	170	38.477	54.881	54.987	0.00	0.00
ATOM	2611	CD2	LEU	X	170	37.757	53.763	52.595	0.00	0.00
ATOM	2612	HD21	LEU	X	170	37.874	53.393	51.576	0.00	0.00
ATOM	2613	HD22	LEU	X	170	37.077	53.129	53.164	0.00	0.00
ATOM	2614	HD23	LEU	X	170	37.329	54.755	52.453	0.00	0.00
ATOM	2615	C	LEU	X	170	41.362	56.118	50.862	0.00	0.00
ATOM	2616	O	LEU	X	170	40.699	57.041	50.324	0.00	0.00
ATOM	2617	N	ASP	X	171	42.698	56.201	51.052	0.00	0.00
ATOM	2618	H	ASP	X	171	43.088	55.382	51.498	0.00	0.00
ATOM	2619	CA	ASP	X	171	43.670	57.024	50.260	0.00	0.00
ATOM	2620	HA	ASP	X	171	43.647	58.018	50.706	0.00	0.00
ATOM	2621	CB	ASP	X	171	45.073	56.429	50.400	0.00	0.00
ATOM	2622	HB2	ASP	X	171	45.081	55.405	50.027	0.00	0.00
ATOM	2623	HB3	ASP	X	171	45.765	56.980	49.763	0.00	0.00
ATOM	2624	CG	ASP	X	171	45.645	56.416	51.839	0.00	0.00
ATOM	2625	OD1	ASP	X	171	44.951	56.778	52.765	0.00	0.00
ATOM	2626	OD2	ASP	X	171	46.814	55.945	51.968	0.00	0.00
ATOM	2627	C	ASP	X	171	43.253	57.172	48.782	0.00	0.00
ATOM	2628	O	ASP	X	171	43.005	58.335	48.317	0.00	0.00

ATOM	2629	N	GLN	X	172	43.235	56.094	48.092	0.00	0.00
ATOM	2630	H	GLN	X	172	43.170	55.257	48.653	0.00	0.00
ATOM	2631	CA	GLN	X	172	42.935	56.067	46.610	0.00	0.00
ATOM	2632	HA	GLN	X	172	43.618	56.742	46.093	0.00	0.00
ATOM	2633	CB	GLN	X	172	43.194	54.632	46.069	0.00	0.00
ATOM	2634	HB2	GLN	X	172	42.536	53.899	46.537	0.00	0.00
ATOM	2635	HB3	GLN	X	172	42.928	54.648	45.013	0.00	0.00
ATOM	2636	CG	GLN	X	172	44.611	54.054	46.321	0.00	0.00
ATOM	2637	HG2	GLN	X	172	45.364	54.619	45.772	0.00	0.00
ATOM	2638	HG3	GLN	X	172	44.757	54.039	47.401	0.00	0.00
ATOM	2639	CD	GLN	X	172	44.681	52.566	45.911	0.00	0.00
ATOM	2640	OE1	GLN	X	172	43.997	52.056	45.053	0.00	0.00
ATOM	2641	NE2	GLN	X	172	45.416	51.722	46.625	0.00	0.00
ATOM	2642	HE21	GLN	X	172	45.380	50.729	46.448	0.00	0.00
ATOM	2643	HE22	GLN	X	172	46.238	52.004	47.141	0.00	0.00
ATOM	2644	C	GLN	X	172	41.480	56.449	46.234	0.00	0.00
ATOM	2645	O	GLN	X	172	41.255	57.147	45.209	0.00	0.00
ATOM	2646	N	ARG	X	173	40.458	56.079	47.019	0.00	0.00
ATOM	2647	H	ARG	X	173	40.721	55.549	47.837	0.00	0.00
ATOM	2648	CA	ARG	X	173	39.108	56.585	46.930	0.00	0.00
ATOM	2649	HA	ARG	X	173	38.729	56.426	45.920	0.00	0.00
ATOM	2650	CB	ARG	X	173	38.239	55.780	47.890	0.00	0.00
ATOM	2651	HB2	ARG	X	173	38.538	54.738	47.777	0.00	0.00
ATOM	2652	HB3	ARG	X	173	38.520	56.118	48.888	0.00	0.00
ATOM	2653	CG	ARG	X	173	36.808	55.998	47.522	0.00	0.00
ATOM	2654	HG2	ARG	X	173	36.612	57.035	47.252	0.00	0.00
ATOM	2655	HG3	ARG	X	173	36.614	55.422	46.617	0.00	0.00
ATOM	2656	CD	ARG	X	173	35.856	55.549	48.599	0.00	0.00
ATOM	2657	HD2	ARG	X	173	36.233	56.045	49.494	0.00	0.00
ATOM	2658	HD3	ARG	X	173	34.859	55.876	48.304	0.00	0.00
ATOM	2659	NE	ARG	X	173	35.908	54.115	48.738	0.00	0.00
ATOM	2660	HE	ARG	X	173	36.282	53.596	47.956	0.00	0.00
ATOM	2661	CZ	ARG	X	173	35.269	53.338	49.619	0.00	0.00
ATOM	2662	NH1	ARG	X	173	34.718	53.876	50.701	0.00	0.00
ATOM	2663	HH11	ARG	X	173	34.686	54.881	50.800	0.00	0.00
ATOM	2664	HH12	ARG	X	173	34.122	53.266	51.241	0.00	0.00
ATOM	2665	NH2	ARG	X	173	35.087	52.065	49.333	0.00	0.00
ATOM	2666	HH21	ARG	X	173	35.383	51.630	48.471	0.00	0.00
ATOM	2667	HH22	ARG	X	173	34.752	51.433	50.046	0.00	0.00
ATOM	2668	C	ARG	X	173	39.084	58.121	47.069	0.00	0.00
ATOM	2669	O	ARG	X	173	38.511	58.774	46.181	0.00	0.00
ATOM	2670	N	LEU	X	174	39.796	58.743	48.009	0.00	0.00
ATOM	2671	H	LEU	X	174	40.320	58.158	48.645	0.00	0.00
ATOM	2672	CA	LEU	X	174	39.906	60.156	48.215	0.00	0.00
ATOM	2673	HA	LEU	X	174	38.913	60.583	48.352	0.00	0.00
ATOM	2674	CB	LEU	X	174	40.571	60.460	49.575	0.00	0.00
ATOM	2675	HB2	LEU	X	174	40.114	59.901	50.392	0.00	0.00
ATOM	2676	HB3	LEU	X	174	41.605	60.164	49.400	0.00	0.00
ATOM	2677	CG	LEU	X	174	40.605	61.961	49.969	0.00	0.00
ATOM	2678	HG	LEU	X	174	41.141	62.527	49.207	0.00	0.00
ATOM	2679	CD1	LEU	X	174	39.197	62.557	50.175	0.00	0.00
ATOM	2680	HD11	LEU	X	174	38.612	62.315	49.288	0.00	0.00
ATOM	2681	HD12	LEU	X	174	38.915	62.106	51.127	0.00	0.00
ATOM	2682	HD13	LEU	X	174	39.141	63.636	50.317	0.00	0.00
ATOM	2683	CD2	LEU	X	174	41.615	62.225	51.098	0.00	0.00
ATOM	2684	HD21	LEU	X	174	41.278	61.924	52.090	0.00	0.00
ATOM	2685	HD22	LEU	X	174	42.473	61.675	50.711	0.00	0.00
ATOM	2686	HD23	LEU	X	174	41.832	63.292	51.143	0.00	0.00
ATOM	2687	C	LEU	X	174	40.700	60.757	47.012	0.00	0.00
ATOM	2688	O	LEU	X	174	40.261	61.745	46.478	0.00	0.00
ATOM	2689	N	ALA	X	175	41.729	60.112	46.479	0.00	0.00
ATOM	2690	H	ALA	X	175	42.260	59.435	47.008	0.00	0.00
ATOM	2691	CA	ALA	X	175	42.267	60.526	45.163	0.00	0.00
ATOM	2692	HA	ALA	X	175	42.552	61.578	45.190	0.00	0.00
ATOM	2693	CB	ALA	X	175	43.494	59.658	44.902	0.00	0.00
ATOM	2694	HB1	ALA	X	175	43.200	58.611	44.826	0.00	0.00
ATOM	2695	HB2	ALA	X	175	44.034	59.998	44.019	0.00	0.00
ATOM	2696	HB3	ALA	X	175	44.111	59.692	45.800	0.00	0.00
ATOM	2697	C	ALA	X	175	41.280	60.474	43.951	0.00	0.00
ATOM	2698	O	ALA	X	175	41.320	61.335	43.076	0.00	0.00

ATOM	2699	N	LEU	X	176	40.374	59.503	43.853	0.00	0.00
ATOM	2700	H	LEU	X	176	40.485	58.706	44.463	0.00	0.00
ATOM	2701	CA	LEU	X	176	39.412	59.369	42.747	0.00	0.00
ATOM	2702	HA	LEU	X	176	39.980	59.657	41.862	0.00	0.00
ATOM	2703	CB	LEU	X	176	38.924	57.963	42.635	0.00	0.00
ATOM	2704	HB2	LEU	X	176	38.863	57.512	43.626	0.00	0.00
ATOM	2705	HB3	LEU	X	176	37.879	57.865	42.341	0.00	0.00
ATOM	2706	CG	LEU	X	176	39.733	56.993	41.761	0.00	0.00
ATOM	2707	HG	LEU	X	176	40.789	56.937	42.027	0.00	0.00
ATOM	2708	CD1	LEU	X	176	39.111	55.629	42.042	0.00	0.00
ATOM	2709	HD11	LEU	X	176	39.292	55.434	43.099	0.00	0.00
ATOM	2710	HD12	LEU	X	176	38.053	55.545	41.793	0.00	0.00
ATOM	2711	HD13	LEU	X	176	39.574	54.771	41.555	0.00	0.00
ATOM	2712	CD2	LEU	X	176	39.486	57.335	40.222	0.00	0.00
ATOM	2713	HD21	LEU	X	176	39.711	58.352	39.900	0.00	0.00
ATOM	2714	HD22	LEU	X	176	40.156	56.680	39.666	0.00	0.00
ATOM	2715	HD23	LEU	X	176	38.479	57.094	39.884	0.00	0.00
ATOM	2716	C	LEU	X	176	38.251	60.372	42.911	0.00	0.00
ATOM	2717	O	LEU	X	176	37.715	60.915	41.936	0.00	0.00
ATOM	2718	N	GLN	X	177	37.849	60.687	44.138	0.00	0.00
ATOM	2719	H	GLN	X	177	38.220	60.119	44.886	0.00	0.00
ATOM	2720	CA	GLN	X	177	37.087	61.899	44.455	0.00	0.00
ATOM	2721	HA	GLN	X	177	36.153	61.969	43.898	0.00	0.00
ATOM	2722	CB	GLN	X	177	36.682	61.941	45.948	0.00	0.00
ATOM	2723	HB2	GLN	X	177	37.559	61.655	46.529	0.00	0.00
ATOM	2724	HB3	GLN	X	177	36.391	62.989	46.021	0.00	0.00
ATOM	2725	CG	GLN	X	177	35.497	61.070	46.386	0.00	0.00
ATOM	2726	HG2	GLN	X	177	34.614	61.571	45.990	0.00	0.00
ATOM	2727	HG3	GLN	X	177	35.571	60.110	45.875	0.00	0.00
ATOM	2728	CD	GLN	X	177	35.539	60.734	47.874	0.00	0.00
ATOM	2729	OE1	GLN	X	177	35.470	59.620	48.256	0.00	0.00
ATOM	2730	NE2	GLN	X	177	35.842	61.726	48.680	0.00	0.00
ATOM	2731	HE21	GLN	X	177	36.072	61.619	49.658	0.00	0.00
ATOM	2732	HE22	GLN	X	177	35.496	62.632	48.397	0.00	0.00
ATOM	2733	C	GLN	X	177	37.884	63.193	44.052	0.00	0.00
ATOM	2734	O	GLN	X	177	37.231	64.190	43.750	0.00	0.00
ATOM	2735	N	TRP	X	178	39.192	63.178	44.217	0.00	0.00
ATOM	2736	H	TRP	X	178	39.690	62.386	44.597	0.00	0.00
ATOM	2737	CA	TRP	X	178	39.939	64.327	43.752	0.00	0.00
ATOM	2738	HA	TRP	X	178	39.511	65.200	44.244	0.00	0.00
ATOM	2739	CB	TRP	X	178	41.398	64.209	44.259	0.00	0.00
ATOM	2740	HB2	TRP	X	178	41.666	63.912	45.273	0.00	0.00
ATOM	2741	HB3	TRP	X	178	41.985	63.522	43.648	0.00	0.00
ATOM	2742	CG	TRP	X	178	42.129	65.514	44.180	0.00	0.00
ATOM	2743	CD1	TRP	X	178	42.296	66.361	45.238	0.00	0.00
ATOM	2744	HD1	TRP	X	178	41.824	66.237	46.202	0.00	0.00
ATOM	2745	NE1	TRP	X	178	43.079	67.401	44.842	0.00	0.00
ATOM	2746	HE1	TRP	X	178	43.246	68.218	45.413	0.00	0.00
ATOM	2747	CE2	TRP	X	178	43.454	67.352	43.549	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	44.248	68.264	42.739	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	44.779	69.103	43.163	0.00	0.00
ATOM	2750	CH2	TRP	X	178	44.492	67.850	41.420	0.00	0.00
ATOM	2751	HH2	TRP	X	178	45.159	68.386	40.762	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	44.036	66.560	41.002	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	44.340	66.203	40.029	0.00	0.00
ATOM	2754	CE3	TRP	X	178	43.182	65.767	41.772	0.00	0.00
ATOM	2755	HE3	TRP	X	178	42.798	64.846	41.359	0.00	0.00
ATOM	2756	CD2	TRP	X	178	42.879	66.146	43.089	0.00	0.00
ATOM	2757	C	TRP	X	178	39.913	64.559	42.237	0.00	0.00
ATOM	2758	O	TRP	X	178	39.734	65.721	41.813	0.00	0.00
ATOM	2759	N	VAL	X	179	40.147	63.461	41.553	0.00	0.00
ATOM	2760	H	VAL	X	179	40.639	62.770	42.101	0.00	0.00
ATOM	2761	CA	VAL	X	179	40.079	63.349	40.071	0.00	0.00
ATOM	2762	HA	VAL	X	179	40.764	64.051	39.597	0.00	0.00
ATOM	2763	CB	VAL	X	179	40.469	61.938	39.625	0.00	0.00
ATOM	2764	HB	VAL	X	179	39.979	61.228	40.292	0.00	0.00
ATOM	2765	CG1	VAL	X	179	39.866	61.614	38.236	0.00	0.00
ATOM	2766	HG11	VAL	X	179	40.180	62.429	37.583	0.00	0.00
ATOM	2767	HG12	VAL	X	179	40.247	60.659	37.874	0.00	0.00
ATOM	2768	HG13	VAL	X	179	38.776	61.612	38.243	0.00	0.00

ATOM	2769	CG2	VAL	X	179	42.023	61.578	39.685	0.00	0.00
ATOM	2770	HG21	VAL	X	179	42.682	62.128	39.013	0.00	0.00
ATOM	2771	HG22	VAL	X	179	42.383	61.798	40.690	0.00	0.00
ATOM	2772	HG23	VAL	X	179	42.123	60.495	39.613	0.00	0.00
ATOM	2773	C	VAL	X	179	38.712	63.771	39.608	0.00	0.00
ATOM	2774	O	VAL	X	179	38.570	64.594	38.687	0.00	0.00
ATOM	2775	N	GLN	X	180	37.697	63.284	40.312	0.00	0.00
ATOM	2776	H	GLN	X	180	37.840	62.604	41.045	0.00	0.00
ATOM	2777	CA	GLN	X	180	36.317	63.688	39.882	0.00	0.00
ATOM	2778	HA	GLN	X	180	36.314	63.551	38.801	0.00	0.00
ATOM	2779	CB	GLN	X	180	35.302	62.761	40.588	0.00	0.00
ATOM	2780	HB2	GLN	X	180	35.509	62.688	41.656	0.00	0.00
ATOM	2781	HB3	GLN	X	180	34.295	63.174	40.643	0.00	0.00
ATOM	2782	CG	GLN	X	180	35.126	61.425	39.936	0.00	0.00
ATOM	2783	HG2	GLN	X	180	36.090	60.926	39.834	0.00	0.00
ATOM	2784	HG3	GLN	X	180	34.576	60.764	40.605	0.00	0.00
ATOM	2785	CD	GLN	X	180	34.432	61.634	38.557	0.00	0.00
ATOM	2786	OE1	GLN	X	180	33.975	62.679	38.182	0.00	0.00
ATOM	2787	NE2	GLN	X	180	34.485	60.618	37.764	0.00	0.00
ATOM	2788	HE21	GLN	X	180	34.049	60.764	36.865	0.00	0.00
ATOM	2789	HE22	GLN	X	180	34.895	59.724	37.996	0.00	0.00
ATOM	2790	C	GLN	X	180	36.174	65.205	40.130	0.00	0.00
ATOM	2791	O	GLN	X	180	35.579	65.912	39.283	0.00	0.00
ATOM	2792	N	GLU	X	181	36.667	65.702	41.249	0.00	0.00
ATOM	2793	H	GLU	X	181	37.266	65.130	41.827	0.00	0.00
ATOM	2794	CA	GLU	X	181	36.607	67.150	41.524	0.00	0.00
ATOM	2795	HA	GLU	X	181	35.579	67.466	41.348	0.00	0.00
ATOM	2796	CB	GLU	X	181	37.083	67.357	43.007	0.00	0.00
ATOM	2797	HB2	GLU	X	181	36.323	66.792	43.547	0.00	0.00
ATOM	2798	HB3	GLU	X	181	38.112	67.022	43.140	0.00	0.00
ATOM	2799	CG	GLU	X	181	36.939	68.795	43.540	0.00	0.00
ATOM	2800	HG2	GLU	X	181	37.855	69.339	43.310	0.00	0.00
ATOM	2801	HG3	GLU	X	181	36.100	69.248	43.012	0.00	0.00
ATOM	2802	CD	GLU	X	181	36.703	68.799	45.022	0.00	0.00
ATOM	2803	OE1	GLU	X	181	37.409	68.094	45.758	0.00	0.00
ATOM	2804	OE2	GLU	X	181	35.698	69.450	45.415	0.00	0.00
ATOM	2805	C	GLU	X	181	37.419	68.062	40.520	0.00	0.00
ATOM	2806	O	GLU	X	181	37.108	69.251	40.380	0.00	0.00
ATOM	2807	N	ASN	X	182	38.525	67.659	39.942	0.00	0.00
ATOM	2808	H	ASN	X	182	38.651	66.659	40.004	0.00	0.00
ATOM	2809	CA	ASN	X	182	39.550	68.520	39.348	0.00	0.00
ATOM	2810	HA	ASN	X	182	39.190	69.548	39.383	0.00	0.00
ATOM	2811	CB	ASN	X	182	40.827	68.606	40.226	0.00	0.00
ATOM	2812	HB2	ASN	X	182	41.365	67.662	40.320	0.00	0.00
ATOM	2813	HB3	ASN	X	182	41.521	69.337	39.811	0.00	0.00
ATOM	2814	CG	ASN	X	182	40.517	69.079	41.633	0.00	0.00
ATOM	2815	OD1	ASN	X	182	40.259	70.211	41.914	0.00	0.00
ATOM	2816	ND2	ASN	X	182	40.637	68.166	42.573	0.00	0.00
ATOM	2817	HD21	ASN	X	182	40.589	68.350	43.565	0.00	0.00
ATOM	2818	HD22	ASN	X	182	40.698	67.198	42.291	0.00	0.00
ATOM	2819	C	ASN	X	182	39.981	68.173	37.911	0.00	0.00
ATOM	2820	O	ASN	X	182	40.443	69.077	37.246	0.00	0.00
ATOM	2821	N	VAL	X	183	39.715	66.953	37.381	0.00	0.00
ATOM	2822	H	VAL	X	183	39.274	66.201	37.891	0.00	0.00
ATOM	2823	CA	VAL	X	183	40.450	66.600	36.162	0.00	0.00
ATOM	2824	HA	VAL	X	183	41.480	66.955	36.213	0.00	0.00
ATOM	2825	CB	VAL	X	183	40.502	65.098	35.945	0.00	0.00
ATOM	2826	HB	VAL	X	183	40.630	64.671	36.940	0.00	0.00
ATOM	2827	CG1	VAL	X	183	39.314	64.443	35.215	0.00	0.00
ATOM	2828	HG11	VAL	X	183	39.399	63.361	35.324	0.00	0.00
ATOM	2829	HG12	VAL	X	183	38.359	64.824	35.578	0.00	0.00
ATOM	2830	HG13	VAL	X	183	39.441	64.620	34.147	0.00	0.00
ATOM	2831	CG2	VAL	X	183	41.814	64.684	35.155	0.00	0.00
ATOM	2832	HG21	VAL	X	183	41.980	63.608	35.206	0.00	0.00
ATOM	2833	HG22	VAL	X	183	41.799	64.948	34.098	0.00	0.00
ATOM	2834	HG23	VAL	X	183	42.708	65.079	35.639	0.00	0.00
ATOM	2835	C	VAL	X	183	40.033	67.260	34.879	0.00	0.00
ATOM	2836	O	VAL	X	183	40.856	67.213	33.959	0.00	0.00
ATOM	2837	N	ALA	X	184	38.889	67.984	34.953	0.00	0.00
ATOM	2838	H	ALA	X	184	38.359	68.025	35.812	0.00	0.00

ATOM	2839	CA	ALA	X	184	38.403	68.683	33.804	0.00	0.00
ATOM	2840	HA	ALA	X	184	38.283	67.928	33.027	0.00	0.00
ATOM	2841	CB	ALA	X	184	36.981	69.255	34.068	0.00	0.00
ATOM	2842	HB1	ALA	X	184	36.198	68.501	33.984	0.00	0.00
ATOM	2843	HB2	ALA	X	184	36.991	69.485	35.134	0.00	0.00
ATOM	2844	HB3	ALA	X	184	36.805	70.081	33.378	0.00	0.00
ATOM	2845	C	ALA	X	184	39.340	69.753	33.296	0.00	0.00
ATOM	2846	O	ALA	X	184	39.559	69.864	32.092	0.00	0.00
ATOM	2847	N	ALA	X	185	39.771	70.729	34.167	0.00	0.00
ATOM	2848	H	ALA	X	185	39.538	70.651	35.147	0.00	0.00
ATOM	2849	CA	ALA	X	185	40.740	71.733	33.806	0.00	0.00
ATOM	2850	HA	ALA	X	185	40.206	72.316	33.055	0.00	0.00
ATOM	2851	CB	ALA	X	185	41.100	72.501	35.017	0.00	0.00
ATOM	2852	HB1	ALA	X	185	41.536	71.895	35.811	0.00	0.00
ATOM	2853	HB2	ALA	X	185	41.848	73.277	34.850	0.00	0.00
ATOM	2854	HB3	ALA	X	185	40.197	72.980	35.395	0.00	0.00
ATOM	2855	C	ALA	X	185	42.105	71.301	33.203	0.00	0.00
ATOM	2856	O	ALA	X	185	42.694	71.989	32.373	0.00	0.00
ATOM	2857	N	PHE	X	186	42.499	70.097	33.474	0.00	0.00
ATOM	2858	H	PHE	X	186	42.108	69.527	34.210	0.00	0.00
ATOM	2859	CA	PHE	X	186	43.706	69.489	32.885	0.00	0.00
ATOM	2860	HA	PHE	X	186	44.483	70.226	32.682	0.00	0.00
ATOM	2861	CB	PHE	X	186	44.349	68.389	33.879	0.00	0.00
ATOM	2862	HB2	PHE	X	186	43.547	67.664	34.017	0.00	0.00
ATOM	2863	HB3	PHE	X	186	45.132	67.787	33.420	0.00	0.00
ATOM	2864	CG	PHE	X	186	44.870	68.872	35.173	0.00	0.00
ATOM	2865	CD1	PHE	X	186	43.893	69.066	36.164	0.00	0.00
ATOM	2866	HD1	PHE	X	186	42.858	68.898	35.903	0.00	0.00
ATOM	2867	CE1	PHE	X	186	44.351	69.256	37.426	0.00	0.00
ATOM	2868	HE1	PHE	X	186	43.738	69.451	38.294	0.00	0.00
ATOM	2869	CZ	PHE	X	186	45.725	69.390	37.702	0.00	0.00
ATOM	2870	HZ	PHE	X	186	46.082	69.658	38.686	0.00	0.00
ATOM	2871	CE2	PHE	X	186	46.684	69.271	36.648	0.00	0.00
ATOM	2872	HE2	PHE	X	186	47.762	69.249	36.692	0.00	0.00
ATOM	2873	CD2	PHE	X	186	46.203	69.024	35.383	0.00	0.00
ATOM	2874	HD2	PHE	X	186	46.891	68.895	34.561	0.00	0.00
ATOM	2875	C	PHE	X	186	43.410	68.828	31.560	0.00	0.00
ATOM	2876	O	PHE	X	186	44.315	68.481	30.794	0.00	0.00
ATOM	2877	N	GLY	X	187	42.045	68.757	31.208	0.00	0.00
ATOM	2878	H	GLY	X	187	41.343	69.162	31.810	0.00	0.00
ATOM	2879	CA	GLY	X	187	41.496	68.330	29.946	0.00	0.00
ATOM	2880	HA2	GLY	X	187	40.496	68.879	29.933	0.00	0.00
ATOM	2881	HA3	GLY	X	187	42.147	68.523	29.152	0.00	0.00
ATOM	2882	C	GLY	X	187	41.103	66.911	29.907	0.00	0.00
ATOM	2883	O	GLY	X	187	40.616	66.531	28.856	0.00	0.00
ATOM	2884	N	GLY	X	188	41.135	66.120	31.005	0.00	0.00
ATOM	2885	H	GLY	X	188	41.451	66.589	31.842	0.00	0.00
ATOM	2886	CA	GLY	X	188	40.567	64.836	31.223	0.00	0.00
ATOM	2887	HA2	GLY	X	188	40.864	64.191	30.425	0.00	0.00
ATOM	2888	HA3	GLY	X	188	41.055	64.348	32.070	0.00	0.00
ATOM	2889	C	GLY	X	188	39.070	64.864	31.240	0.00	0.00
ATOM	2890	O	GLY	X	188	38.430	65.763	31.773	0.00	0.00
ATOM	2891	N	ASP	X	189	38.418	63.863	30.575	0.00	0.00
ATOM	2892	H	ASP	X	189	38.994	63.188	30.092	0.00	0.00
ATOM	2893	CA	ASP	X	189	36.939	63.550	30.612	0.00	0.00
ATOM	2894	HA	ASP	X	189	36.374	64.467	30.442	0.00	0.00
ATOM	2895	CB	ASP	X	189	36.660	62.639	29.412	0.00	0.00
ATOM	2896	HB2	ASP	X	189	37.239	62.896	28.525	0.00	0.00
ATOM	2897	HB3	ASP	X	189	37.092	61.714	29.793	0.00	0.00
ATOM	2898	CG	ASP	X	189	35.197	62.528	29.159	0.00	0.00
ATOM	2899	OD1	ASP	X	189	34.694	62.844	28.023	0.00	0.00
ATOM	2900	OD2	ASP	X	189	34.473	62.013	30.022	0.00	0.00
ATOM	2901	C	ASP	X	189	36.454	62.937	31.936	0.00	0.00
ATOM	2902	O	ASP	X	189	36.638	61.751	32.286	0.00	0.00
ATOM	2903	N	PRO	X	190	35.721	63.680	32.775	0.00	0.00
ATOM	2904	CD	PRO	X	190	35.301	65.056	32.592	0.00	0.00
ATOM	2905	HD2	PRO	X	190	34.583	65.181	31.782	0.00	0.00
ATOM	2906	HD3	PRO	X	190	36.197	65.633	32.364	0.00	0.00
ATOM	2907	CG	PRO	X	190	34.684	65.525	33.952	0.00	0.00
ATOM	2908	HG2	PRO	X	190	33.606	65.612	33.810	0.00	0.00

ATOM	2909	HG3	PRO	X	190	35.264	66.337	34.390	0.00	0.00
ATOM	2910	CB	PRO	X	190	34.889	64.357	34.886	0.00	0.00
ATOM	2911	HB2	PRO	X	190	34.019	64.233	35.530	0.00	0.00
ATOM	2912	HB3	PRO	X	190	35.705	64.639	35.551	0.00	0.00
ATOM	2913	CA	PRO	X	190	35.232	63.135	34.026	0.00	0.00
ATOM	2914	HA	PRO	X	190	36.058	62.576	34.467	0.00	0.00
ATOM	2915	C	PRO	X	190	34.034	62.160	33.952	0.00	0.00
ATOM	2916	O	PRO	X	190	33.701	61.556	34.987	0.00	0.00
ATOM	2917	N	THR	X	191	33.630	61.774	32.782	0.00	0.00
ATOM	2918	H	THR	X	191	33.935	62.323	31.992	0.00	0.00
ATOM	2919	CA	THR	X	191	32.641	60.657	32.539	0.00	0.00
ATOM	2920	HA	THR	X	191	32.394	60.127	33.459	0.00	0.00
ATOM	2921	CB	THR	X	191	31.462	61.250	31.788	0.00	0.00
ATOM	2922	HB	THR	X	191	30.890	60.438	31.339	0.00	0.00
ATOM	2923	CG2	THR	X	191	30.411	61.764	32.692	0.00	0.00
ATOM	2924	HG21	THR	X	191	30.814	62.441	33.445	0.00	0.00
ATOM	2925	HG22	THR	X	191	29.684	62.276	32.062	0.00	0.00
ATOM	2926	HG23	THR	X	191	29.968	60.892	33.172	0.00	0.00
ATOM	2927	OG1	THR	X	191	31.944	62.192	30.821	0.00	0.00
ATOM	2928	HG1	THR	X	191	32.819	62.041	30.456	0.00	0.00
ATOM	2929	C	THR	X	191	33.317	59.513	31.751	0.00	0.00
ATOM	2930	O	THR	X	191	32.659	58.675	31.169	0.00	0.00
ATOM	2931	N	SER	X	192	34.729	59.497	31.669	0.00	0.00
ATOM	2932	H	SER	X	192	35.311	60.242	32.024	0.00	0.00
ATOM	2933	CA	SER	X	192	35.481	58.404	31.002	0.00	0.00
ATOM	2934	HA	SER	X	192	34.891	57.489	31.047	0.00	0.00
ATOM	2935	CB	SER	X	192	35.861	58.862	29.554	0.00	0.00
ATOM	2936	HB2	SER	X	192	36.704	59.544	29.441	0.00	0.00
ATOM	2937	HB3	SER	X	192	36.091	57.943	29.015	0.00	0.00
ATOM	2938	OG	SER	X	192	34.704	59.441	28.953	0.00	0.00
ATOM	2939	HG	SER	X	192	34.484	60.190	29.511	0.00	0.00
ATOM	2940	C	SER	X	192	36.737	57.947	31.732	0.00	0.00
ATOM	2941	O	SER	X	192	37.766	57.617	31.181	0.00	0.00
ATOM	2942	N	VAL	X	193	36.693	58.067	33.086	0.00	0.00
ATOM	2943	H	VAL	X	193	35.811	58.330	33.501	0.00	0.00
ATOM	2944	CA	VAL	X	193	37.860	57.610	33.959	0.00	0.00
ATOM	2945	HA	VAL	X	193	38.800	57.972	33.543	0.00	0.00
ATOM	2946	CB	VAL	X	193	37.731	58.176	35.408	0.00	0.00
ATOM	2947	HB	VAL	X	193	36.878	57.683	35.875	0.00	0.00
ATOM	2948	CG1	VAL	X	193	38.975	57.829	36.085	0.00	0.00
ATOM	2949	HG11	VAL	X	193	39.836	58.378	35.703	0.00	0.00
ATOM	2950	HG12	VAL	X	193	38.979	58.025	37.158	0.00	0.00
ATOM	2951	HG13	VAL	X	193	39.250	56.786	35.929	0.00	0.00
ATOM	2952	CG2	VAL	X	193	37.530	59.709	35.380	0.00	0.00
ATOM	2953	HG21	VAL	X	193	38.406	60.215	34.975	0.00	0.00
ATOM	2954	HG22	VAL	X	193	36.784	59.951	34.622	0.00	0.00
ATOM	2955	HG23	VAL	X	193	37.147	60.136	36.308	0.00	0.00
ATOM	2956	C	VAL	X	193	38.015	56.117	33.847	0.00	0.00
ATOM	2957	O	VAL	X	193	37.063	55.322	33.814	0.00	0.00
ATOM	2958	N	THR	X	194	39.259	55.640	33.690	0.00	0.00
ATOM	2959	H	THR	X	194	39.963	56.363	33.638	0.00	0.00
ATOM	2960	CA	THR	X	194	39.634	54.246	33.351	0.00	0.00
ATOM	2961	HA	THR	X	194	38.829	53.603	33.707	0.00	0.00
ATOM	2962	CB	THR	X	194	39.829	53.971	31.858	0.00	0.00
ATOM	2963	HB	THR	X	194	40.525	54.689	31.425	0.00	0.00
ATOM	2964	CG2	THR	X	194	40.383	52.538	31.591	0.00	0.00
ATOM	2965	HG21	THR	X	194	39.862	51.744	32.125	0.00	0.00
ATOM	2966	HG22	THR	X	194	40.335	52.402	30.511	0.00	0.00
ATOM	2967	HG23	THR	X	194	41.400	52.573	31.982	0.00	0.00
ATOM	2968	OG1	THR	X	194	38.621	54.216	31.114	0.00	0.00
ATOM	2969	HG1	THR	X	194	38.344	55.093	31.390	0.00	0.00
ATOM	2970	C	THR	X	194	40.820	53.832	34.171	0.00	0.00
ATOM	2971	O	THR	X	194	41.863	54.487	34.037	0.00	0.00
ATOM	2972	N	LEU	X	195	40.674	52.738	34.952	0.00	0.00
ATOM	2973	H	LEU	X	195	39.742	52.352	34.899	0.00	0.00
ATOM	2974	CA	LEU	X	195	41.674	52.347	36.026	0.00	0.00
ATOM	2975	HA	LEU	X	195	42.426	53.108	36.235	0.00	0.00
ATOM	2976	CB	LEU	X	195	40.988	51.813	37.325	0.00	0.00
ATOM	2977	HB2	LEU	X	195	40.486	50.895	37.022	0.00	0.00
ATOM	2978	HB3	LEU	X	195	41.799	51.606	38.024	0.00	0.00

ATOM	2979	CG	LEU	X	195	39.867	52.655	37.909	0.00	0.00
ATOM	2980	HG	LEU	X	195	39.005	52.596	37.245	0.00	0.00
ATOM	2981	CD1	LEU	X	195	39.501	52.004	39.198	0.00	0.00
ATOM	2982	HD11	LEU	X	195	40.315	51.602	39.801	0.00	0.00
ATOM	2983	HD12	LEU	X	195	38.885	52.730	39.728	0.00	0.00
ATOM	2984	HD13	LEU	X	195	38.819	51.186	38.963	0.00	0.00
ATOM	2985	CD2	LEU	X	195	40.314	54.123	38.108	0.00	0.00
ATOM	2986	HD21	LEU	X	195	39.333	54.581	38.229	0.00	0.00
ATOM	2987	HD22	LEU	X	195	41.016	54.304	38.922	0.00	0.00
ATOM	2988	HD23	LEU	X	195	40.851	54.595	37.285	0.00	0.00
ATOM	2989	C	LEU	X	195	42.426	51.165	35.411	0.00	0.00
ATOM	2990	O	LEU	X	195	41.813	50.314	34.775	0.00	0.00
ATOM	2991	N	PHE	X	196	43.710	51.203	35.556	0.00	0.00
ATOM	2992	H	PHE	X	196	44.067	52.113	35.812	0.00	0.00
ATOM	2993	CA	PHE	X	196	44.671	50.140	35.195	0.00	0.00
ATOM	2994	HA	PHE	X	196	44.093	49.223	35.075	0.00	0.00
ATOM	2995	CB	PHE	X	196	45.332	50.317	33.802	0.00	0.00
ATOM	2996	HB2	PHE	X	196	45.717	49.305	33.669	0.00	0.00
ATOM	2997	HB3	PHE	X	196	44.577	50.513	33.041	0.00	0.00
ATOM	2998	CG	PHE	X	196	46.490	51.324	33.592	0.00	0.00
ATOM	2999	CD1	PHE	X	196	46.255	52.696	33.621	0.00	0.00
ATOM	3000	HD1	PHE	X	196	45.269	53.120	33.740	0.00	0.00
ATOM	3001	CE1	PHE	X	196	47.201	53.606	33.210	0.00	0.00
ATOM	3002	HE1	PHE	X	196	46.978	54.660	33.293	0.00	0.00
ATOM	3003	CZ	PHE	X	196	48.423	53.179	32.782	0.00	0.00
ATOM	3004	HZ	PHE	X	196	49.164	53.920	32.522	0.00	0.00
ATOM	3005	CE2	PHE	X	196	48.801	51.798	32.921	0.00	0.00
ATOM	3006	HE2	PHE	X	196	49.804	51.455	32.716	0.00	0.00
ATOM	3007	CD2	PHE	X	196	47.775	50.874	33.182	0.00	0.00
ATOM	3008	HD2	PHE	X	196	48.023	49.823	33.157	0.00	0.00
ATOM	3009	C	PHE	X	196	45.640	49.880	36.344	0.00	0.00
ATOM	3010	O	PHE	X	196	45.928	50.802	37.084	0.00	0.00
ATOM	3011	N	GLY	X	197	45.907	48.613	36.541	0.00	0.00
ATOM	3012	H	GLY	X	197	45.746	47.913	35.831	0.00	0.00
ATOM	3013	CA	GLY	X	197	46.954	48.346	37.531	0.00	0.00
ATOM	3014	HA2	GLY	X	197	47.796	49.059	37.293	0.00	0.00
ATOM	3015	HA3	GLY	X	197	46.616	48.270	38.533	0.00	0.00
ATOM	3016	C	GLY	X	197	47.633	47.045	37.271	0.00	0.00
ATOM	3017	O	GLY	X	197	47.071	46.246	36.522	0.00	0.00
ATOM	3018	N	GLU	X	198	48.857	46.810	37.797	0.00	0.00
ATOM	3019	H	GLU	X	198	49.295	47.441	38.452	0.00	0.00
ATOM	3020	CA	GLU	X	198	49.447	45.513	37.730	0.00	0.00
ATOM	3021	HA	GLU	X	198	48.854	44.875	37.075	0.00	0.00
ATOM	3022	CB	GLU	X	198	50.940	45.591	37.202	0.00	0.00
ATOM	3023	HB2	GLU	X	198	50.963	45.900	36.157	0.00	0.00
ATOM	3024	HB3	GLU	X	198	51.544	46.318	37.745	0.00	0.00
ATOM	3025	CG	GLU	X	198	51.688	44.265	37.270	0.00	0.00
ATOM	3026	HG2	GLU	X	198	51.081	43.459	37.682	0.00	0.00
ATOM	3027	HG3	GLU	X	198	51.825	43.988	36.224	0.00	0.00
ATOM	3028	CD	GLU	X	198	53.156	44.349	37.800	0.00	0.00
ATOM	3029	OE1	GLU	X	198	53.909	45.244	37.416	0.00	0.00
ATOM	3030	OE2	GLU	X	198	53.477	43.503	38.648	0.00	0.00
ATOM	3031	C	GLU	X	198	49.376	44.935	39.172	0.00	0.00
ATOM	3032	O	GLU	X	198	49.715	45.638	40.109	0.00	0.00
ATOM	3033	N	XA1	X	199	49.022	43.664	39.338	0.00	0.00
ATOM	3034	CA	XA1	X	199	49.393	42.844	40.539	0.00	0.00
ATOM	3035	C	XA1	X	199	48.629	43.275	41.834	0.00	0.00
ATOM	3036	O	XA1	X	199	47.427	43.321	41.861	0.00	0.00
ATOM	3037	CB	XA1	X	199	50.888	42.808	40.743	0.00	0.00
ATOM	3038	OG	XA1	X	199	51.226	41.779	41.778	0.00	0.00
ATOM	3039	P1	XA1	X	199	52.469	42.169	42.691	0.00	0.00
ATOM	3040	O1	XA1	X	199	52.270	43.495	43.230	0.00	0.00
ATOM	3041	O2	XA1	X	199	53.806	42.066	42.077	0.00	0.00
ATOM	3042	C1	XA1	X	199	52.196	40.931	43.886	0.00	0.00
ATOM	3043	H	XA1	X	199	48.740	43.124	38.533	0.00	0.00
ATOM	3044	HA	XA1	X	199	49.105	41.811	40.339	0.00	0.00
ATOM	3045	HB2	XA1	X	199	51.411	42.576	39.811	0.00	0.00
ATOM	3046	HB3	XA1	X	199	51.286	43.802	40.965	0.00	0.00
ATOM	3047	H11	XA1	X	199	53.080	40.880	44.525	0.00	0.00
ATOM	3048	H12	XA1	X	199	51.263	40.936	44.454	0.00	0.00

ATOM	3049	H13	XA1	X	199	52.168	39.999	43.317	0.00	0.00
ATOM	3050	N	ALA	X	200	49.308	43.673	42.922	0.00	0.00
ATOM	3051	H	ALA	X	200	50.310	43.614	43.032	0.00	0.00
ATOM	3052	CA	ALA	X	200	48.606	44.227	44.091	0.00	0.00
ATOM	3053	HA	ALA	X	200	47.899	43.547	44.567	0.00	0.00
ATOM	3054	CB	ALA	X	200	49.668	44.584	45.123	0.00	0.00
ATOM	3055	HB1	ALA	X	200	49.173	44.998	46.001	0.00	0.00
ATOM	3056	HB2	ALA	X	200	50.165	43.651	45.390	0.00	0.00
ATOM	3057	HB3	ALA	X	200	50.394	45.279	44.701	0.00	0.00
ATOM	3058	C	ALA	X	200	47.790	45.489	43.769	0.00	0.00
ATOM	3059	O	ALA	X	200	46.628	45.552	44.213	0.00	0.00
ATOM	3060	N	GLY	X	201	48.258	46.297	42.809	0.00	0.00
ATOM	3061	H	GLY	X	201	49.091	45.977	42.334	0.00	0.00
ATOM	3062	CA	GLY	X	201	47.507	47.240	42.079	0.00	0.00
ATOM	3063	HA2	GLY	X	201	46.985	47.972	42.750	0.00	0.00
ATOM	3064	HA3	GLY	X	201	48.203	47.700	41.388	0.00	0.00
ATOM	3065	C	GLY	X	201	46.346	46.782	41.149	0.00	0.00
ATOM	3066	O	GLY	X	201	45.244	47.338	41.292	0.00	0.00
ATOM	3067	N	ALA	X	202	46.516	45.674	40.405	0.00	0.00
ATOM	3068	H	ALA	X	202	47.407	45.204	40.332	0.00	0.00
ATOM	3069	CA	ALA	X	202	45.304	45.158	39.755	0.00	0.00
ATOM	3070	HA	ALA	X	202	44.898	46.015	39.219	0.00	0.00
ATOM	3071	CB	ALA	X	202	45.700	44.049	38.774	0.00	0.00
ATOM	3072	HB1	ALA	X	202	46.086	43.202	39.341	0.00	0.00
ATOM	3073	HB2	ALA	X	202	44.785	43.591	38.397	0.00	0.00
ATOM	3074	HB3	ALA	X	202	46.416	44.449	38.056	0.00	0.00
ATOM	3075	C	ALA	X	202	44.232	44.639	40.684	0.00	0.00
ATOM	3076	O	ALA	X	202	43.014	44.853	40.519	0.00	0.00
ATOM	3077	N	ALA	X	203	44.708	43.959	41.799	0.00	0.00
ATOM	3078	H	ALA	X	203	45.704	43.910	41.958	0.00	0.00
ATOM	3079	CA	ALA	X	203	43.819	43.406	42.816	0.00	0.00
ATOM	3080	HA	ALA	X	203	43.000	42.938	42.271	0.00	0.00
ATOM	3081	CB	ALA	X	203	44.597	42.418	43.651	0.00	0.00
ATOM	3082	HB1	ALA	X	203	43.936	41.893	44.341	0.00	0.00
ATOM	3083	HB2	ALA	X	203	45.093	41.767	42.931	0.00	0.00
ATOM	3084	HB3	ALA	X	203	45.371	42.839	44.293	0.00	0.00
ATOM	3085	C	ALA	X	203	43.217	44.612	43.637	0.00	0.00
ATOM	3086	O	ALA	X	203	42.099	44.540	44.081	0.00	0.00
ATOM	3087	N	SER	X	204	43.874	45.764	43.687	0.00	0.00
ATOM	3088	H	SER	X	204	44.845	45.732	43.410	0.00	0.00
ATOM	3089	CA	SER	X	204	43.271	47.011	44.207	0.00	0.00
ATOM	3090	HA	SER	X	204	42.728	46.807	45.130	0.00	0.00
ATOM	3091	CB	SER	X	204	44.293	48.124	44.486	0.00	0.00
ATOM	3092	HB2	SER	X	204	44.716	48.463	43.541	0.00	0.00
ATOM	3093	HB3	SER	X	204	43.768	49.028	44.795	0.00	0.00
ATOM	3094	OG	SER	X	204	45.350	47.744	45.456	0.00	0.00
ATOM	3095	HG	SER	X	204	45.912	47.044	45.118	0.00	0.00
ATOM	3096	C	SER	X	204	42.227	47.527	43.263	0.00	0.00
ATOM	3097	O	SER	X	204	41.172	47.964	43.672	0.00	0.00
ATOM	3098	N	VAL	X	205	42.437	47.440	41.902	0.00	0.00
ATOM	3099	H	VAL	X	205	43.321	47.105	41.546	0.00	0.00
ATOM	3100	CA	VAL	X	205	41.424	47.863	40.939	0.00	0.00
ATOM	3101	HA	VAL	X	205	41.024	48.856	41.141	0.00	0.00
ATOM	3102	CB	VAL	X	205	41.950	48.056	39.525	0.00	0.00
ATOM	3103	HB	VAL	X	205	42.590	47.217	39.250	0.00	0.00
ATOM	3104	CG1	VAL	X	205	40.824	48.227	38.434	0.00	0.00
ATOM	3105	HG11	VAL	X	205	40.298	47.273	38.443	0.00	0.00
ATOM	3106	HG12	VAL	X	205	40.127	49.021	38.704	0.00	0.00
ATOM	3107	HG13	VAL	X	205	41.128	48.372	37.397	0.00	0.00
ATOM	3108	CG2	VAL	X	205	42.854	49.268	39.447	0.00	0.00
ATOM	3109	HG21	VAL	X	205	43.709	49.148	40.111	0.00	0.00
ATOM	3110	HG22	VAL	X	205	43.333	49.259	38.468	0.00	0.00
ATOM	3111	HG23	VAL	X	205	42.359	50.226	39.608	0.00	0.00
ATOM	3112	C	VAL	X	205	40.203	46.985	41.077	0.00	0.00
ATOM	3113	O	VAL	X	205	39.129	47.521	41.044	0.00	0.00
ATOM	3114	N	GLY	X	206	40.336	45.684	41.397	0.00	0.00
ATOM	3115	H	GLY	X	206	41.221	45.256	41.165	0.00	0.00
ATOM	3116	CA	GLY	X	206	39.226	44.851	41.802	0.00	0.00
ATOM	3117	HA2	GLY	X	206	38.404	44.934	41.076	0.00	0.00
ATOM	3118	HA3	GLY	X	206	39.536	43.869	41.621	0.00	0.00

ATOM	3119	C	GLY	X	206	38.639	45.030	43.220	0.00	0.00
ATOM	3120	O	GLY	X	206	37.409	44.845	43.326	0.00	0.00
ATOM	3121	N	MET	X	207	39.440	45.501	44.210	0.00	0.00
ATOM	3122	H	MET	X	207	40.436	45.544	44.045	0.00	0.00
ATOM	3123	CA	MET	X	207	38.804	46.010	45.415	0.00	0.00
ATOM	3124	HA	MET	X	207	38.260	45.132	45.763	0.00	0.00
ATOM	3125	CB	MET	X	207	39.838	46.363	46.562	0.00	0.00
ATOM	3126	HB2	MET	X	207	40.565	47.138	46.317	0.00	0.00
ATOM	3127	HB3	MET	X	207	39.288	46.741	47.424	0.00	0.00
ATOM	3128	CG	MET	X	207	40.618	45.115	46.970	0.00	0.00
ATOM	3129	HG2	MET	X	207	41.241	44.762	46.148	0.00	0.00
ATOM	3130	HG3	MET	X	207	41.377	45.347	47.717	0.00	0.00
ATOM	3131	SD	MET	X	207	39.645	43.795	47.813	0.00	0.00
ATOM	3132	CE	MET	X	207	40.767	42.437	47.584	0.00	0.00
ATOM	3133	HE1	MET	X	207	41.394	42.577	46.703	0.00	0.00
ATOM	3134	HE2	MET	X	207	41.396	42.310	48.465	0.00	0.00
ATOM	3135	HE3	MET	X	207	40.163	41.530	47.546	0.00	0.00
ATOM	3136	C	MET	X	207	37.822	47.187	45.013	0.00	0.00
ATOM	3137	O	MET	X	207	36.656	47.158	45.284	0.00	0.00
ATOM	3138	N	HIE	X	208	38.381	48.226	44.303	0.00	0.00
ATOM	3139	H	HIE	X	208	39.354	48.146	44.045	0.00	0.00
ATOM	3140	CA	HIE	X	208	37.672	49.384	43.862	0.00	0.00
ATOM	3141	HA	HIE	X	208	37.421	50.049	44.689	0.00	0.00
ATOM	3142	CB	HIE	X	208	38.542	50.446	43.144	0.00	0.00
ATOM	3143	HB2	HIE	X	208	39.182	49.879	42.468	0.00	0.00
ATOM	3144	HB3	HIE	X	208	37.991	51.032	42.409	0.00	0.00
ATOM	3145	CG	HIE	X	208	39.408	51.232	44.079	0.00	0.00
ATOM	3146	ND1	HIE	X	208	39.038	51.787	45.327	0.00	0.00
ATOM	3147	CE1	HIE	X	208	40.158	52.136	45.898	0.00	0.00
ATOM	3148	HE1	HIE	X	208	40.208	52.614	46.865	0.00	0.00
ATOM	3149	NE2	HIE	X	208	41.242	51.986	45.047	0.00	0.00
ATOM	3150	HE2	HIE	X	208	42.218	51.911	45.297	0.00	0.00
ATOM	3151	CD2	HIE	X	208	40.771	51.305	43.951	0.00	0.00
ATOM	3152	HD2	HIE	X	208	41.397	50.817	43.219	0.00	0.00
ATOM	3153	C	HIE	X	208	36.462	49.018	42.972	0.00	0.00
ATOM	3154	O	HIE	X	208	35.410	49.639	43.064	0.00	0.00
ATOM	3155	N	LEU	X	209	36.503	47.969	42.144	0.00	0.00
ATOM	3156	H	LEU	X	209	37.424	47.573	42.020	0.00	0.00
ATOM	3157	CA	LEU	X	209	35.367	47.347	41.422	0.00	0.00
ATOM	3158	HA	LEU	X	209	34.873	48.150	40.876	0.00	0.00
ATOM	3159	CB	LEU	X	209	35.895	46.286	40.479	0.00	0.00
ATOM	3160	HB2	LEU	X	209	36.693	46.744	39.894	0.00	0.00
ATOM	3161	HB3	LEU	X	209	36.302	45.450	41.046	0.00	0.00
ATOM	3162	CG	LEU	X	209	34.923	45.781	39.466	0.00	0.00
ATOM	3163	HG	LEU	X	209	34.150	45.272	40.042	0.00	0.00
ATOM	3164	CD1	LEU	X	209	34.380	46.824	38.538	0.00	0.00
ATOM	3165	HD11	LEU	X	209	33.753	47.495	39.125	0.00	0.00
ATOM	3166	HD12	LEU	X	209	35.257	47.324	38.128	0.00	0.00
ATOM	3167	HD13	LEU	X	209	33.795	46.313	37.773	0.00	0.00
ATOM	3168	CD2	LEU	X	209	35.644	44.714	38.585	0.00	0.00
ATOM	3169	HD21	LEU	X	209	36.390	45.050	37.864	0.00	0.00
ATOM	3170	HD22	LEU	X	209	36.246	44.159	39.304	0.00	0.00
ATOM	3171	HD23	LEU	X	209	35.019	43.968	38.095	0.00	0.00
ATOM	3172	C	LEU	X	209	34.347	46.804	42.467	0.00	0.00
ATOM	3173	O	LEU	X	209	33.225	47.227	42.388	0.00	0.00
ATOM	3174	N	LEU	X	210	34.749	45.850	43.370	0.00	0.00
ATOM	3175	H	LEU	X	210	35.723	45.582	43.374	0.00	0.00
ATOM	3176	CA	LEU	X	210	33.828	45.194	44.371	0.00	0.00
ATOM	3177	HA	LEU	X	210	32.978	44.712	43.888	0.00	0.00
ATOM	3178	CB	LEU	X	210	34.650	44.264	45.179	0.00	0.00
ATOM	3179	HB2	LEU	X	210	35.468	44.822	45.635	0.00	0.00
ATOM	3180	HB3	LEU	X	210	33.887	44.071	45.933	0.00	0.00
ATOM	3181	CG	LEU	X	210	34.999	42.855	44.570	0.00	0.00
ATOM	3182	HG	LEU	X	210	35.670	42.950	43.716	0.00	0.00
ATOM	3183	CD1	LEU	X	210	35.685	42.092	45.762	0.00	0.00
ATOM	3184	HD11	LEU	X	210	34.994	41.919	46.588	0.00	0.00
ATOM	3185	HD12	LEU	X	210	36.029	41.130	45.385	0.00	0.00
ATOM	3186	HD13	LEU	X	210	36.591	42.486	46.222	0.00	0.00
ATOM	3187	CD2	LEU	X	210	33.773	42.087	44.025	0.00	0.00
ATOM	3188	HD21	LEU	X	210	33.463	42.426	43.037	0.00	0.00

ATOM	3189	HD22	LEU	X	210	34.121	41.066	43.872	0.00	0.00
ATOM	3190	HD23	LEU	X	210	32.879	42.155	44.644	0.00	0.00
ATOM	3191	C	LEU	X	210	33.150	46.144	45.307	0.00	0.00
ATOM	3192	O	LEU	X	210	32.004	45.846	45.644	0.00	0.00
ATOM	3193	N	SER	X	211	33.761	47.284	45.660	0.00	0.00
ATOM	3194	H	SER	X	211	34.731	47.380	45.399	0.00	0.00
ATOM	3195	CA	SER	X	211	33.220	48.130	46.636	0.00	0.00
ATOM	3196	HA	SER	X	211	32.676	47.477	47.319	0.00	0.00
ATOM	3197	CB	SER	X	211	34.476	48.676	47.355	0.00	0.00
ATOM	3198	HB2	SER	X	211	35.005	47.760	47.619	0.00	0.00
ATOM	3199	HB3	SER	X	211	35.220	49.183	46.741	0.00	0.00
ATOM	3200	OG	SER	X	211	34.157	49.394	48.554	0.00	0.00
ATOM	3201	HG	SER	X	211	33.567	48.965	49.177	0.00	0.00
ATOM	3202	C	SER	X	211	32.379	49.272	46.029	0.00	0.00
ATOM	3203	O	SER	X	211	32.930	50.232	45.427	0.00	0.00
ATOM	3204	N	PRO	X	212	31.079	49.343	46.357	0.00	0.00
ATOM	3205	CD	PRO	X	212	30.300	48.194	46.787	0.00	0.00
ATOM	3206	HD2	PRO	X	212	30.752	47.686	47.639	0.00	0.00
ATOM	3207	HD3	PRO	X	212	30.316	47.468	45.974	0.00	0.00
ATOM	3208	CG	PRO	X	212	28.857	48.588	46.918	0.00	0.00
ATOM	3209	HG2	PRO	X	212	28.459	48.650	47.931	0.00	0.00
ATOM	3210	HG3	PRO	X	212	28.302	47.856	46.333	0.00	0.00
ATOM	3211	CB	PRO	X	212	28.752	50.038	46.313	0.00	0.00
ATOM	3212	HB2	PRO	X	212	28.353	50.743	47.042	0.00	0.00
ATOM	3213	HB3	PRO	X	212	28.046	49.997	45.483	0.00	0.00
ATOM	3214	CA	PRO	X	212	30.178	50.363	45.789	0.00	0.00
ATOM	3215	HA	PRO	X	212	30.078	50.347	44.704	0.00	0.00
ATOM	3216	C	PRO	X	212	30.666	51.807	46.059	0.00	0.00
ATOM	3217	O	PRO	X	212	30.446	52.600	45.151	0.00	0.00
ATOM	3218	N	PRO	X	213	31.161	52.278	47.173	0.00	0.00
ATOM	3219	CD	PRO	X	213	31.254	51.566	48.470	0.00	0.00
ATOM	3220	HD2	PRO	X	213	32.292	51.251	48.584	0.00	0.00
ATOM	3221	HD3	PRO	X	213	30.492	50.807	48.645	0.00	0.00
ATOM	3222	CG	PRO	X	213	31.032	52.691	49.501	0.00	0.00
ATOM	3223	HG2	PRO	X	213	31.475	52.449	50.467	0.00	0.00
ATOM	3224	HG3	PRO	X	213	29.970	52.933	49.464	0.00	0.00
ATOM	3225	CB	PRO	X	213	31.663	53.885	48.861	0.00	0.00
ATOM	3226	HB2	PRO	X	213	32.660	54.089	49.250	0.00	0.00
ATOM	3227	HB3	PRO	X	213	30.970	54.690	49.104	0.00	0.00
ATOM	3228	CA	PRO	X	213	31.556	53.682	47.344	0.00	0.00
ATOM	3229	HA	PRO	X	213	30.816	54.371	46.936	0.00	0.00
ATOM	3230	C	PRO	X	213	32.822	54.049	46.676	0.00	0.00
ATOM	3231	O	PRO	X	213	33.162	55.200	46.556	0.00	0.00
ATOM	3232	N	SER	X	214	33.577	53.079	46.161	0.00	0.00
ATOM	3233	H	SER	X	214	33.373	52.103	46.325	0.00	0.00
ATOM	3234	CA	SER	X	214	34.607	53.339	45.144	0.00	0.00
ATOM	3235	HA	SER	X	214	35.143	54.278	45.279	0.00	0.00
ATOM	3236	CB	SER	X	214	35.621	52.216	45.125	0.00	0.00
ATOM	3237	HB2	SER	X	214	35.162	51.376	44.604	0.00	0.00
ATOM	3238	HB3	SER	X	214	36.393	52.557	44.434	0.00	0.00
ATOM	3239	OG	SER	X	214	36.018	51.959	46.509	0.00	0.00
ATOM	3240	HG	SER	X	214	36.875	51.537	46.421	0.00	0.00
ATOM	3241	C	SER	X	214	33.978	53.560	43.682	0.00	0.00
ATOM	3242	O	SER	X	214	34.289	54.447	42.859	0.00	0.00
ATOM	3243	N	ARG	X	215	33.003	52.685	43.385	0.00	0.00
ATOM	3244	H	ARG	X	215	32.852	52.016	44.126	0.00	0.00
ATOM	3245	CA	ARG	X	215	32.394	52.313	42.101	0.00	0.00
ATOM	3246	HA	ARG	X	215	33.188	52.133	41.377	0.00	0.00
ATOM	3247	CB	ARG	X	215	31.735	50.914	42.235	0.00	0.00
ATOM	3248	HB2	ARG	X	215	32.502	50.149	42.355	0.00	0.00
ATOM	3249	HB3	ARG	X	215	31.123	50.964	43.135	0.00	0.00
ATOM	3250	CG	ARG	X	215	30.822	50.472	41.064	0.00	0.00
ATOM	3251	HG2	ARG	X	215	30.069	51.257	40.988	0.00	0.00
ATOM	3252	HG3	ARG	X	215	31.422	50.397	40.157	0.00	0.00
ATOM	3253	CD	ARG	X	215	30.182	49.119	41.414	0.00	0.00
ATOM	3254	HD2	ARG	X	215	31.013	48.416	41.470	0.00	0.00
ATOM	3255	HD3	ARG	X	215	29.801	49.213	42.431	0.00	0.00
ATOM	3256	NE	ARG	X	215	29.021	48.775	40.592	0.00	0.00
ATOM	3257	HE	ARG	X	215	28.788	49.345	39.791	0.00	0.00
ATOM	3258	CZ	ARG	X	215	28.205	47.778	40.784	0.00	0.00

ATOM	3259	NH1	ARG	X	215	28.317	46.795	41.670	0.00	0.00
ATOM	3260	HH11	ARG	X	215	29.040	46.863	42.372	0.00	0.00
ATOM	3261	HH12	ARG	X	215	27.756	45.956	41.667	0.00	0.00
ATOM	3262	NH2	ARG	X	215	27.258	47.653	39.936	0.00	0.00
ATOM	3263	HH21	ARG	X	215	27.050	48.352	39.237	0.00	0.00
ATOM	3264	HH22	ARG	X	215	26.706	46.807	39.911	0.00	0.00
ATOM	3265	C	ARG	X	215	31.525	53.488	41.481	0.00	0.00
ATOM	3266	O	ARG	X	215	31.177	53.435	40.307	0.00	0.00
ATOM	3267	N	GLY	X	216	31.292	54.593	42.271	0.00	0.00
ATOM	3268	H	GLY	X	216	31.664	54.497	43.205	0.00	0.00
ATOM	3269	CA	GLY	X	216	30.509	55.738	41.917	0.00	0.00
ATOM	3270	HA2	GLY	X	216	29.826	55.429	41.118	0.00	0.00
ATOM	3271	HA3	GLY	X	216	30.036	56.189	42.846	0.00	0.00
ATOM	3272	C	GLY	X	216	31.406	56.871	41.368	0.00	0.00
ATOM	3273	O	GLY	X	216	30.924	57.915	40.934	0.00	0.00
ATOM	3274	N	LEU	X	217	32.740	56.638	41.266	0.00	0.00
ATOM	3275	H	LEU	X	217	33.074	55.767	41.654	0.00	0.00
ATOM	3276	CA	LEU	X	217	33.799	57.592	40.821	0.00	0.00
ATOM	3277	HA	LEU	X	217	33.351	58.579	40.710	0.00	0.00
ATOM	3278	CB	LEU	X	217	34.901	57.672	41.984	0.00	0.00
ATOM	3279	HB2	LEU	X	217	35.503	56.765	41.930	0.00	0.00
ATOM	3280	HB3	LEU	X	217	35.633	58.476	41.914	0.00	0.00
ATOM	3281	CG	LEU	X	217	34.320	57.767	43.418	0.00	0.00
ATOM	3282	HG	LEU	X	217	33.712	56.878	43.585	0.00	0.00
ATOM	3283	CD1	LEU	X	217	35.402	57.669	44.466	0.00	0.00
ATOM	3284	HD11	LEU	X	217	35.855	56.682	44.369	0.00	0.00
ATOM	3285	HD12	LEU	X	217	36.210	58.359	44.223	0.00	0.00
ATOM	3286	HD13	LEU	X	217	34.961	57.814	45.453	0.00	0.00
ATOM	3287	CD2	LEU	X	217	33.575	59.142	43.614	0.00	0.00
ATOM	3288	HD21	LEU	X	217	33.045	59.139	44.567	0.00	0.00
ATOM	3289	HD22	LEU	X	217	34.176	60.028	43.408	0.00	0.00
ATOM	3290	HD23	LEU	X	217	32.798	59.197	42.853	0.00	0.00
ATOM	3291	C	LEU	X	217	34.495	57.269	39.505	0.00	0.00
ATOM	3292	O	LEU	X	217	35.231	58.058	38.991	0.00	0.00
ATOM	3293	N	PHE	X	218	34.174	56.082	38.937	0.00	0.00
ATOM	3294	H	PHE	X	218	33.586	55.443	39.453	0.00	0.00
ATOM	3295	CA	PHE	X	218	34.794	55.620	37.676	0.00	0.00
ATOM	3296	HA	PHE	X	218	35.117	56.457	37.057	0.00	0.00
ATOM	3297	CB	PHE	X	218	36.105	54.861	37.882	0.00	0.00
ATOM	3298	HB2	PHE	X	218	36.548	54.786	36.888	0.00	0.00
ATOM	3299	HB3	PHE	X	218	36.712	55.454	38.566	0.00	0.00
ATOM	3300	CG	PHE	X	218	36.081	53.516	38.515	0.00	0.00
ATOM	3301	CD1	PHE	X	218	35.969	53.331	39.947	0.00	0.00
ATOM	3302	HD1	PHE	X	218	35.857	54.200	40.579	0.00	0.00
ATOM	3303	CE1	PHE	X	218	35.849	52.006	40.492	0.00	0.00
ATOM	3304	HE1	PHE	X	218	35.657	51.849	41.543	0.00	0.00
ATOM	3305	CZ	PHE	X	218	35.783	50.919	39.627	0.00	0.00
ATOM	3306	HZ	PHE	X	218	35.628	49.960	40.098	0.00	0.00
ATOM	3307	CE2	PHE	X	218	36.025	51.056	38.267	0.00	0.00
ATOM	3308	HE2	PHE	X	218	36.125	50.213	37.599	0.00	0.00
ATOM	3309	CD2	PHE	X	218	36.156	52.338	37.658	0.00	0.00
ATOM	3310	HD2	PHE	X	218	36.346	52.404	36.597	0.00	0.00
ATOM	3311	C	PHE	X	218	33.901	54.580	36.941	0.00	0.00
ATOM	3312	O	PHE	X	218	32.864	54.227	37.450	0.00	0.00
ATOM	3313	N	HIE	X	219	34.351	54.205	35.765	0.00	0.00
ATOM	3314	H	HIE	X	219	35.282	54.474	35.479	0.00	0.00
ATOM	3315	CA	HIE	X	219	33.489	53.750	34.704	0.00	0.00
ATOM	3316	HA	HIE	X	219	32.495	53.458	35.041	0.00	0.00
ATOM	3317	CB	HIE	X	219	33.481	54.870	33.674	0.00	0.00
ATOM	3318	HB2	HIE	X	219	34.471	54.976	33.231	0.00	0.00
ATOM	3319	HB3	HIE	X	219	32.792	54.698	32.847	0.00	0.00
ATOM	3320	CG	HIE	X	219	33.053	56.241	34.251	0.00	0.00
ATOM	3321	ND1	HIE	X	219	33.959	57.349	34.113	0.00	0.00
ATOM	3322	CE1	HIE	X	219	33.437	58.222	34.981	0.00	0.00
ATOM	3323	HE1	HIE	X	219	33.993	59.080	35.329	0.00	0.00
ATOM	3324	NE2	HIE	X	219	32.292	57.792	35.580	0.00	0.00
ATOM	3325	HE2	HIE	X	219	31.882	58.166	36.424	0.00	0.00
ATOM	3326	CD2	HIE	X	219	32.031	56.542	35.084	0.00	0.00
ATOM	3327	HD2	HIE	X	219	31.329	55.779	35.387	0.00	0.00
ATOM	3328	C	HIE	X	219	34.010	52.512	33.977	0.00	0.00

ATOM	3329	O	HIE	X	219	33.116	51.761	33.515	0.00	0.00
ATOM	3330	N	ARG	X	220	35.358	52.269	33.966	0.00	0.00
ATOM	3331	H	ARG	X	220	35.984	52.827	34.529	0.00	0.00
ATOM	3332	CA	ARG	X	220	35.927	51.032	33.308	0.00	0.00
ATOM	3333	HA	ARG	X	220	35.250	50.193	33.464	0.00	0.00
ATOM	3334	CB	ARG	X	220	36.259	51.194	31.793	0.00	0.00
ATOM	3335	HB2	ARG	X	220	37.260	51.613	31.694	0.00	0.00
ATOM	3336	HB3	ARG	X	220	36.311	50.186	31.379	0.00	0.00
ATOM	3337	CG	ARG	X	220	35.182	52.028	31.086	0.00	0.00
ATOM	3338	HG2	ARG	X	220	34.235	51.524	31.276	0.00	0.00
ATOM	3339	HG3	ARG	X	220	35.120	53.055	31.447	0.00	0.00
ATOM	3340	CD	ARG	X	220	35.528	52.057	29.576	0.00	0.00
ATOM	3341	HD2	ARG	X	220	36.468	52.598	29.476	0.00	0.00
ATOM	3342	HD3	ARG	X	220	35.689	51.060	29.166	0.00	0.00
ATOM	3343	NE	ARG	X	220	34.494	52.770	28.890	0.00	0.00
ATOM	3344	HE	ARG	X	220	33.688	52.235	28.602	0.00	0.00
ATOM	3345	CZ	ARG	X	220	34.240	54.052	28.786	0.00	0.00
ATOM	3346	NH1	ARG	X	220	35.073	55.004	29.135	0.00	0.00
ATOM	3347	HH11	ARG	X	220	36.040	54.746	29.268	0.00	0.00
ATOM	3348	HH12	ARG	X	220	34.809	55.943	28.872	0.00	0.00
ATOM	3349	NH2	ARG	X	220	33.119	54.472	28.222	0.00	0.00
ATOM	3350	HH21	ARG	X	220	32.455	53.743	28.004	0.00	0.00
ATOM	3351	HH22	ARG	X	220	32.902	55.451	28.099	0.00	0.00
ATOM	3352	C	ARG	X	220	37.255	50.700	34.109	0.00	0.00
ATOM	3353	O	ARG	X	220	37.769	51.584	34.829	0.00	0.00
ATOM	3354	N	ALA	X	221	37.709	49.465	34.016	0.00	0.00
ATOM	3355	H	ALA	X	221	37.276	48.816	33.375	0.00	0.00
ATOM	3356	CA	ALA	X	221	38.709	48.886	34.871	0.00	0.00
ATOM	3357	HA	ALA	X	221	39.402	49.659	35.204	0.00	0.00
ATOM	3358	CB	ALA	X	221	38.000	48.134	36.009	0.00	0.00
ATOM	3359	HB1	ALA	X	221	38.840	47.837	36.637	0.00	0.00
ATOM	3360	HB2	ALA	X	221	37.318	48.774	36.568	0.00	0.00
ATOM	3361	HB3	ALA	X	221	37.479	47.253	35.634	0.00	0.00
ATOM	3362	C	ALA	X	221	39.571	47.774	34.105	0.00	0.00
ATOM	3363	O	ALA	X	221	39.043	46.872	33.538	0.00	0.00
ATOM	3364	N	VAL	X	222	40.857	47.980	34.014	0.00	0.00
ATOM	3365	H	VAL	X	222	41.332	48.811	34.337	0.00	0.00
ATOM	3366	CA	VAL	X	222	41.798	46.970	33.572	0.00	0.00
ATOM	3367	HA	VAL	X	222	41.283	46.185	33.018	0.00	0.00
ATOM	3368	CB	VAL	X	222	42.807	47.596	32.621	0.00	0.00
ATOM	3369	HB	VAL	X	222	43.393	48.271	33.245	0.00	0.00
ATOM	3370	CG1	VAL	X	222	43.916	46.572	32.099	0.00	0.00
ATOM	3371	HG11	VAL	X	222	44.581	47.213	31.520	0.00	0.00
ATOM	3372	HG12	VAL	X	222	44.569	46.274	32.919	0.00	0.00
ATOM	3373	HG13	VAL	X	222	43.572	45.845	31.363	0.00	0.00
ATOM	3374	CG2	VAL	X	222	42.156	48.310	31.506	0.00	0.00
ATOM	3375	HG21	VAL	X	222	41.715	49.233	31.882	0.00	0.00
ATOM	3376	HG22	VAL	X	222	42.954	48.508	30.791	0.00	0.00
ATOM	3377	HG23	VAL	X	222	41.326	47.750	31.074	0.00	0.00
ATOM	3378	C	VAL	X	222	42.579	46.326	34.765	0.00	0.00
ATOM	3379	O	VAL	X	222	43.138	47.028	35.573	0.00	0.00
ATOM	3380	N	LEU	X	223	42.612	45.007	34.826	0.00	0.00
ATOM	3381	H	LEU	X	223	42.115	44.394	34.195	0.00	0.00
ATOM	3382	CA	LEU	X	223	43.253	44.178	35.896	0.00	0.00
ATOM	3383	HA	LEU	X	223	43.663	44.811	36.683	0.00	0.00
ATOM	3384	CB	LEU	X	223	42.210	43.235	36.508	0.00	0.00
ATOM	3385	HB2	LEU	X	223	41.743	42.608	35.749	0.00	0.00
ATOM	3386	HB3	LEU	X	223	42.862	42.585	37.091	0.00	0.00
ATOM	3387	CG	LEU	X	223	41.228	43.870	37.497	0.00	0.00
ATOM	3388	HG	LEU	X	223	41.657	44.765	37.946	0.00	0.00
ATOM	3389	CD1	LEU	X	223	40.021	44.210	36.749	0.00	0.00
ATOM	3390	HD11	LEU	X	223	40.237	44.988	36.017	0.00	0.00
ATOM	3391	HD12	LEU	X	223	39.582	43.266	36.428	0.00	0.00
ATOM	3392	HD13	LEU	X	223	39.328	44.629	37.479	0.00	0.00
ATOM	3393	CD2	LEU	X	223	40.884	43.050	38.721	0.00	0.00
ATOM	3394	HD21	LEU	X	223	40.617	43.599	39.624	0.00	0.00
ATOM	3395	HD22	LEU	X	223	40.016	42.424	38.512	0.00	0.00
ATOM	3396	HD23	LEU	X	223	41.779	42.494	39.002	0.00	0.00
ATOM	3397	C	LEU	X	223	44.335	43.280	35.208	0.00	0.00
ATOM	3398	O	LEU	X	223	44.069	42.289	34.526	0.00	0.00

ATOM	3399	N	GLN	X	224	45.621	43.585	35.343	0.00	0.00
ATOM	3400	H	GLN	X	224	45.797	44.405	35.907	0.00	0.00
ATOM	3401	CA	GLN	X	224	46.811	42.910	34.898	0.00	0.00
ATOM	3402	HA	GLN	X	224	46.519	42.144	34.181	0.00	0.00
ATOM	3403	CB	GLN	X	224	47.709	43.831	34.101	0.00	0.00
ATOM	3404	HB2	GLN	X	224	48.137	44.622	34.717	0.00	0.00
ATOM	3405	HB3	GLN	X	224	48.481	43.135	33.773	0.00	0.00
ATOM	3406	CG	GLN	X	224	47.007	44.747	33.062	0.00	0.00
ATOM	3407	HG2	GLN	X	224	46.294	44.123	32.523	0.00	0.00
ATOM	3408	HG3	GLN	X	224	46.333	45.431	33.578	0.00	0.00
ATOM	3409	CD	GLN	X	224	47.921	45.580	32.166	0.00	0.00
ATOM	3410	OE1	GLN	X	224	47.783	46.768	32.033	0.00	0.00
ATOM	3411	NE2	GLN	X	224	49.036	45.081	31.713	0.00	0.00
ATOM	3412	HE21	GLN	X	224	49.724	45.626	31.213	0.00	0.00
ATOM	3413	HE22	GLN	X	224	49.360	44.157	31.965	0.00	0.00
ATOM	3414	C	GLN	X	224	47.507	42.081	35.998	0.00	0.00
ATOM	3415	O	GLN	X	224	48.009	42.628	36.944	0.00	0.00
ATOM	3416	N	SER	X	225	47.619	40.734	35.867	0.00	0.00
ATOM	3417	H	SER	X	225	47.450	40.246	35.000	0.00	0.00
ATOM	3418	CA	SER	X	225	48.528	39.936	36.699	0.00	0.00
ATOM	3419	HA	SER	X	225	48.332	38.883	36.493	0.00	0.00
ATOM	3420	CB	SER	X	225	50.009	40.252	36.247	0.00	0.00
ATOM	3421	HB2	SER	X	225	50.058	41.341	36.267	0.00	0.00
ATOM	3422	HB3	SER	X	225	50.750	39.795	36.904	0.00	0.00
ATOM	3423	OG	SER	X	225	50.284	39.828	34.877	0.00	0.00
ATOM	3424	HG	SER	X	225	50.574	38.914	34.850	0.00	0.00
ATOM	3425	C	SER	X	225	48.300	39.888	38.249	0.00	0.00
ATOM	3426	O	SER	X	225	49.257	39.695	39.044	0.00	0.00
ATOM	3427	N	GLY	X	226	47.012	39.842	38.644	0.00	0.00
ATOM	3428	H	GLY	X	226	46.327	39.823	37.902	0.00	0.00
ATOM	3429	CA	GLY	X	226	46.578	39.935	40.045	0.00	0.00
ATOM	3430	HA2	GLY	X	226	46.946	39.102	40.635	0.00	0.00
ATOM	3431	HA3	GLY	X	226	47.082	40.769	40.532	0.00	0.00
ATOM	3432	C	GLY	X	226	45.099	40.141	40.127	0.00	0.00
ATOM	3433	O	GLY	X	226	44.582	41.105	39.644	0.00	0.00
ATOM	3434	N	ALA	X	227	44.445	39.100	40.708	0.00	0.00
ATOM	3435	H	ALA	X	227	44.989	38.455	41.263	0.00	0.00
ATOM	3436	CA	ALA	X	227	43.033	39.053	40.968	0.00	0.00
ATOM	3437	HA	ALA	X	227	42.650	39.813	40.287	0.00	0.00
ATOM	3438	CB	ALA	X	227	42.488	37.603	40.632	0.00	0.00
ATOM	3439	HB1	ALA	X	227	43.079	36.918	41.240	0.00	0.00
ATOM	3440	HB2	ALA	X	227	41.417	37.626	40.833	0.00	0.00
ATOM	3441	HB3	ALA	X	227	42.681	37.414	39.576	0.00	0.00
ATOM	3442	C	ALA	X	227	42.606	39.443	42.386	0.00	0.00
ATOM	3443	O	ALA	X	227	43.116	38.846	43.296	0.00	0.00
ATOM	3444	N	PRO	X	228	41.589	40.301	42.613	0.00	0.00
ATOM	3445	CD	PRO	X	228	40.727	40.911	41.591	0.00	0.00
ATOM	3446	HD2	PRO	X	228	40.511	40.329	40.695	0.00	0.00
ATOM	3447	HD3	PRO	X	228	41.201	41.845	41.293	0.00	0.00
ATOM	3448	CG	PRO	X	228	39.440	41.120	42.395	0.00	0.00
ATOM	3449	HG2	PRO	X	228	38.862	40.196	42.410	0.00	0.00
ATOM	3450	HG3	PRO	X	228	38.826	41.941	42.026	0.00	0.00
ATOM	3451	CB	PRO	X	228	39.871	41.466	43.791	0.00	0.00
ATOM	3452	HB2	PRO	X	228	39.102	41.258	44.535	0.00	0.00
ATOM	3453	HB3	PRO	X	228	40.216	42.499	43.736	0.00	0.00
ATOM	3454	CA	PRO	X	228	41.039	40.499	43.994	0.00	0.00
ATOM	3455	HA	PRO	X	228	41.769	41.079	44.559	0.00	0.00
ATOM	3456	C	PRO	X	228	40.689	39.210	44.668	0.00	0.00
ATOM	3457	O	PRO	X	228	40.885	39.044	45.878	0.00	0.00
ATOM	3458	N	ASN	X	229	40.080	38.264	43.921	0.00	0.00
ATOM	3459	H	ASN	X	229	39.942	38.462	42.940	0.00	0.00
ATOM	3460	CA	ASN	X	229	39.748	36.967	44.507	0.00	0.00
ATOM	3461	HA	ASN	X	229	39.187	37.145	45.424	0.00	0.00
ATOM	3462	CB	ASN	X	229	38.684	36.304	43.562	0.00	0.00
ATOM	3463	HB2	ASN	X	229	38.545	35.269	43.872	0.00	0.00
ATOM	3464	HB3	ASN	X	229	37.741	36.831	43.708	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.057	36.229	42.101	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.107	37.267	41.444	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.107	35.065	41.494	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.478	35.039	40.554	0.00	0.00

ATOM	3469	HD22	ASN	X	229	38.993	34.186	41.978	0.00	0.00
ATOM	3470	C	ASN	X	229	40.875	36.040	44.704	0.00	0.00
ATOM	3471	O	ASN	X	229	40.724	34.910	45.193	0.00	0.00
ATOM	3472	N	GLY	X	230	42.132	36.400	44.457	0.00	0.00
ATOM	3473	H	GLY	X	230	42.392	37.329	44.159	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.305	35.503	44.611	0.00	0.00
ATOM	3475	HA2	GLY	X	230	43.184	34.524	44.083	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.153	35.982	44.249	0.00	0.00
ATOM	3477	C	GLY	X	230	43.631	35.196	46.098	0.00	0.00
ATOM	3478	O	GLY	X	230	43.378	36.103	46.878	0.00	0.00
ATOM	3479	N	PRO	X	231	44.080	34.038	46.564	0.00	0.00
ATOM	3480	CD	PRO	X	231	44.382	32.881	45.780	0.00	0.00
ATOM	3481	HD2	PRO	X	231	45.035	33.144	44.948	0.00	0.00
ATOM	3482	HD3	PRO	X	231	43.502	32.433	45.319	0.00	0.00
ATOM	3483	CG	PRO	X	231	45.204	31.928	46.608	0.00	0.00
ATOM	3484	HG2	PRO	X	231	46.265	32.174	46.556	0.00	0.00
ATOM	3485	HG3	PRO	X	231	45.003	30.892	46.339	0.00	0.00
ATOM	3486	CB	PRO	X	231	44.642	32.232	47.962	0.00	0.00
ATOM	3487	HB2	PRO	X	231	45.401	32.059	48.725	0.00	0.00
ATOM	3488	HB3	PRO	X	231	43.768	31.600	48.123	0.00	0.00
ATOM	3489	CA	PRO	X	231	44.185	33.675	47.970	0.00	0.00
ATOM	3490	HA	PRO	X	231	43.146	33.737	48.294	0.00	0.00
ATOM	3491	C	PRO	X	231	45.128	34.583	48.812	0.00	0.00
ATOM	3492	O	PRO	X	231	44.870	34.702	50.007	0.00	0.00
ATOM	3493	N	TRP	X	232	46.072	35.297	48.231	0.00	0.00
ATOM	3494	H	TRP	X	232	46.338	35.156	47.267	0.00	0.00
ATOM	3495	CA	TRP	X	232	46.990	36.153	48.906	0.00	0.00
ATOM	3496	HA	TRP	X	232	47.188	35.754	49.901	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.326	36.249	48.097	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.965	36.996	48.566	0.00	0.00
ATOM	3499	HB3	TRP	X	232	48.828	35.298	48.275	0.00	0.00
ATOM	3500	CG	TRP	X	232	48.070	36.606	46.642	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.812	35.765	45.627	0.00	0.00
ATOM	3502	HD1	TRP	X	232	47.796	34.688	45.707	0.00	0.00
ATOM	3503	NE1	TRP	X	232	47.588	36.490	44.466	0.00	0.00
ATOM	3504	HE1	TRP	X	232	47.426	35.998	43.599	0.00	0.00
ATOM	3505	CE2	TRP	X	232	47.784	37.856	44.686	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	47.801	39.010	43.818	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	47.571	38.832	42.778	0.00	0.00
ATOM	3508	CH2	TRP	X	232	48.092	40.277	44.355	0.00	0.00
ATOM	3509	HH2	TRP	X	232	48.015	41.070	43.626	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	48.443	40.379	45.712	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	48.424	41.372	46.136	0.00	0.00
ATOM	3512	CE3	TRP	X	232	48.539	39.220	46.527	0.00	0.00
ATOM	3513	HE3	TRP	X	232	48.712	39.394	47.579	0.00	0.00
ATOM	3514	CD2	TRP	X	232	48.143	37.936	46.061	0.00	0.00
ATOM	3515	C	TRP	X	232	46.480	37.582	48.961	0.00	0.00
ATOM	3516	O	TRP	X	232	47.031	38.334	49.729	0.00	0.00
ATOM	3517	N	ALA	X	233	45.463	37.911	48.163	0.00	0.00
ATOM	3518	H	ALA	X	233	44.988	37.197	47.628	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.876	39.259	47.909	0.00	0.00
ATOM	3520	HA	ALA	X	233	45.756	39.898	47.992	0.00	0.00
ATOM	3521	CB	ALA	X	233	44.415	39.328	46.499	0.00	0.00
ATOM	3522	HB1	ALA	X	233	45.197	39.184	45.753	0.00	0.00
ATOM	3523	HB2	ALA	X	233	43.687	38.540	46.302	0.00	0.00
ATOM	3524	HB3	ALA	X	233	43.997	40.327	46.381	0.00	0.00
ATOM	3525	C	ALA	X	233	43.918	39.841	48.962	0.00	0.00
ATOM	3526	O	ALA	X	233	43.545	40.993	49.037	0.00	0.00
ATOM	3527	N	THR	X	234	43.635	38.982	49.943	0.00	0.00
ATOM	3528	H	THR	X	234	44.228	38.166	50.003	0.00	0.00
ATOM	3529	CA	THR	X	234	42.760	39.172	51.122	0.00	0.00
ATOM	3530	HA	THR	X	234	42.786	40.257	51.222	0.00	0.00
ATOM	3531	CB	THR	X	234	41.359	38.758	50.961	0.00	0.00
ATOM	3532	HB	THR	X	234	41.008	39.109	49.990	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.000	37.316	51.181	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.139	37.096	52.239	0.00	0.00
ATOM	3535	HG22	THR	X	234	39.934	37.124	51.064	0.00	0.00
ATOM	3536	HG23	THR	X	234	41.625	36.727	50.510	0.00	0.00
ATOM	3537	OG1	THR	X	234	40.633	39.586	51.808	0.00	0.00
ATOM	3538	HG1	THR	X	234	40.975	40.478	51.896	0.00	0.00

ATOM	3539	C	THR	X	234	43.453	38.565	52.361	0.00	0.00
ATOM	3540	O	THR	X	234	44.399	37.830	52.280	0.00	0.00
ATOM	3541	N	VAL	X	235	42.917	38.919	53.543	0.00	0.00
ATOM	3542	H	VAL	X	235	42.162	39.589	53.533	0.00	0.00
ATOM	3543	CA	VAL	X	235	43.061	38.254	54.830	0.00	0.00
ATOM	3544	HA	VAL	X	235	43.137	37.194	54.585	0.00	0.00
ATOM	3545	CB	VAL	X	235	44.403	38.709	55.489	0.00	0.00
ATOM	3546	HB	VAL	X	235	45.091	38.876	54.660	0.00	0.00
ATOM	3547	CG1	VAL	X	235	44.391	40.155	56.039	0.00	0.00
ATOM	3548	HG11	VAL	X	235	45.412	40.524	56.135	0.00	0.00
ATOM	3549	HG12	VAL	X	235	44.001	40.911	55.358	0.00	0.00
ATOM	3550	HG13	VAL	X	235	43.939	40.178	57.031	0.00	0.00
ATOM	3551	CG2	VAL	X	235	44.873	37.755	56.549	0.00	0.00
ATOM	3552	HG21	VAL	X	235	44.358	37.900	57.498	0.00	0.00
ATOM	3553	HG22	VAL	X	235	44.899	36.709	56.246	0.00	0.00
ATOM	3554	HG23	VAL	X	235	45.904	38.088	56.677	0.00	0.00
ATOM	3555	C	VAL	X	235	41.775	38.506	55.644	0.00	0.00
ATOM	3556	O	VAL	X	235	41.045	39.488	55.570	0.00	0.00
ATOM	3557	N	GLY	X	236	41.441	37.532	56.435	0.00	0.00
ATOM	3558	H	GLY	X	236	42.043	36.724	56.513	0.00	0.00
ATOM	3559	CA	GLY	X	236	40.521	37.620	57.567	0.00	0.00
ATOM	3560	HA2	GLY	X	236	39.507	38.048	57.221	0.00	0.00
ATOM	3561	HA3	GLY	X	236	40.188	36.628	57.829	0.00	0.00
ATOM	3562	C	GLY	X	236	40.852	38.434	58.771	0.00	0.00
ATOM	3563	O	GLY	X	236	42.014	38.799	58.998	0.00	0.00
ATOM	3564	N	MET	X	237	39.863	38.532	59.635	0.00	0.00
ATOM	3565	H	MET	X	237	39.017	38.027	59.413	0.00	0.00
ATOM	3566	CA	MET	X	237	39.958	39.252	60.958	0.00	0.00
ATOM	3567	HA	MET	X	237	40.238	40.287	60.760	0.00	0.00
ATOM	3568	CB	MET	X	237	38.491	39.142	61.648	0.00	0.00
ATOM	3569	HB2	MET	X	237	38.312	38.072	61.753	0.00	0.00
ATOM	3570	HB3	MET	X	237	38.574	39.415	62.700	0.00	0.00
ATOM	3571	CG	MET	X	237	37.444	40.089	60.965	0.00	0.00
ATOM	3572	HG2	MET	X	237	37.684	41.147	61.071	0.00	0.00
ATOM	3573	HG3	MET	X	237	37.463	39.785	59.918	0.00	0.00
ATOM	3574	SD	MET	X	237	35.649	39.931	61.406	0.00	0.00
ATOM	3575	CE	MET	X	237	35.089	41.089	60.179	0.00	0.00
ATOM	3576	HE1	MET	X	237	35.573	42.028	60.449	0.00	0.00
ATOM	3577	HE2	MET	X	237	35.314	40.792	59.155	0.00	0.00
ATOM	3578	HE3	MET	X	237	34.010	41.116	60.335	0.00	0.00
ATOM	3579	C	MET	X	237	41.026	38.725	61.967	0.00	0.00
ATOM	3580	O	MET	X	237	41.737	39.399	62.707	0.00	0.00
ATOM	3581	N	GLY	X	238	41.191	37.401	61.855	0.00	0.00
ATOM	3582	H	GLY	X	238	40.603	36.936	61.178	0.00	0.00
ATOM	3583	CA	GLY	X	238	41.908	36.629	62.798	0.00	0.00
ATOM	3584	HA2	GLY	X	238	41.701	37.060	63.753	0.00	0.00
ATOM	3585	HA3	GLY	X	238	41.513	35.622	62.767	0.00	0.00
ATOM	3586	C	GLY	X	238	43.378	36.583	62.614	0.00	0.00
ATOM	3587	O	GLY	X	238	44.129	36.933	63.511	0.00	0.00
ATOM	3588	N	GLU	X	239	43.740	36.336	61.333	0.00	0.00
ATOM	3589	H	GLU	X	239	43.224	35.681	60.764	0.00	0.00
ATOM	3590	CA	GLU	X	239	45.143	36.492	60.958	0.00	0.00
ATOM	3591	HA	GLU	X	239	45.853	36.042	61.652	0.00	0.00
ATOM	3592	CB	GLU	X	239	45.532	36.020	59.508	0.00	0.00
ATOM	3593	HB2	GLU	X	239	44.565	35.883	59.022	0.00	0.00
ATOM	3594	HB3	GLU	X	239	46.112	36.775	58.977	0.00	0.00
ATOM	3595	CG	GLU	X	239	46.278	34.665	59.502	0.00	0.00
ATOM	3596	HG2	GLU	X	239	45.461	34.000	59.783	0.00	0.00
ATOM	3597	HG3	GLU	X	239	46.560	34.362	58.494	0.00	0.00
ATOM	3598	CD	GLU	X	239	47.420	34.583	60.417	0.00	0.00
ATOM	3599	OE1	GLU	X	239	47.335	34.145	61.609	0.00	0.00
ATOM	3600	OE2	GLU	X	239	48.491	35.043	60.116	0.00	0.00
ATOM	3601	C	GLU	X	239	45.578	37.987	61.090	0.00	0.00
ATOM	3602	O	GLU	X	239	46.750	38.307	61.231	0.00	0.00
ATOM	3603	N	ALA	X	240	44.652	38.933	60.935	0.00	0.00
ATOM	3604	H	ALA	X	240	43.738	38.617	60.645	0.00	0.00
ATOM	3605	CA	ALA	X	240	44.992	40.359	61.144	0.00	0.00
ATOM	3606	HA	ALA	X	240	45.864	40.539	60.515	0.00	0.00
ATOM	3607	CB	ALA	X	240	43.823	41.179	60.617	0.00	0.00
ATOM	3608	HB1	ALA	X	240	44.078	42.238	60.648	0.00	0.00

ATOM	3609	HB2	ALA	X	240	43.621	40.960	59.569	0.00	0.00
ATOM	3610	HB3	ALA	X	240	42.874	41.010	61.127	0.00	0.00
ATOM	3611	C	ALA	X	240	45.273	40.752	62.579	0.00	0.00
ATOM	3612	O	ALA	X	240	46.368	41.211	62.847	0.00	0.00
ATOM	3613	N	ARG	X	241	44.391	40.345	63.521	0.00	0.00
ATOM	3614	H	ARG	X	241	43.590	39.814	63.208	0.00	0.00
ATOM	3615	CA	ARG	X	241	44.590	40.559	64.986	0.00	0.00
ATOM	3616	HA	ARG	X	241	44.724	41.612	65.233	0.00	0.00
ATOM	3617	CB	ARG	X	241	43.403	39.843	65.737	0.00	0.00
ATOM	3618	HB2	ARG	X	241	42.503	39.992	65.139	0.00	0.00
ATOM	3619	HB3	ARG	X	241	43.579	38.768	65.716	0.00	0.00
ATOM	3620	CG	ARG	X	241	43.244	40.183	67.166	0.00	0.00
ATOM	3621	HG2	ARG	X	241	42.529	39.513	67.644	0.00	0.00
ATOM	3622	HG3	ARG	X	241	44.160	40.120	67.753	0.00	0.00
ATOM	3623	CD	ARG	X	241	42.755	41.611	67.270	0.00	0.00
ATOM	3624	HD2	ARG	X	241	43.638	42.237	67.142	0.00	0.00
ATOM	3625	HD3	ARG	X	241	42.151	41.794	66.382	0.00	0.00
ATOM	3626	NE	ARG	X	241	42.222	41.947	68.599	0.00	0.00
ATOM	3627	HE	ARG	X	241	42.819	42.219	69.367	0.00	0.00
ATOM	3628	CZ	ARG	X	241	40.930	41.932	68.905	0.00	0.00
ATOM	3629	NH1	ARG	X	241	39.999	41.539	67.988	0.00	0.00
ATOM	3630	HH11	ARG	X	241	40.223	41.297	67.034	0.00	0.00
ATOM	3631	HH12	ARG	X	241	39.015	41.628	68.199	0.00	0.00
ATOM	3632	NH2	ARG	X	241	40.518	42.184	70.108	0.00	0.00
ATOM	3633	HH21	ARG	X	241	41.200	42.426	70.813	0.00	0.00
ATOM	3634	HH22	ARG	X	241	39.532	42.095	70.308	0.00	0.00
ATOM	3635	C	ARG	X	241	45.928	39.916	65.468	0.00	0.00
ATOM	3636	O	ARG	X	241	46.656	40.550	66.250	0.00	0.00
ATOM	3637	N	ARG	X	242	46.245	38.705	64.979	0.00	0.00
ATOM	3638	H	ARG	X	242	45.511	38.186	64.519	0.00	0.00
ATOM	3639	CA	ARG	X	242	47.401	38.029	65.478	0.00	0.00
ATOM	3640	HA	ARG	X	242	47.408	38.008	66.568	0.00	0.00
ATOM	3641	CB	ARG	X	242	47.350	36.612	65.008	0.00	0.00
ATOM	3642	HB2	ARG	X	242	46.380	36.125	65.109	0.00	0.00
ATOM	3643	HB3	ARG	X	242	47.735	36.608	63.989	0.00	0.00
ATOM	3644	CG	ARG	X	242	48.206	35.729	65.866	0.00	0.00
ATOM	3645	HG2	ARG	X	242	49.219	36.117	65.969	0.00	0.00
ATOM	3646	HG3	ARG	X	242	47.806	35.545	66.864	0.00	0.00
ATOM	3647	CD	ARG	X	242	48.295	34.368	65.231	0.00	0.00
ATOM	3648	HD2	ARG	X	242	48.917	33.734	65.863	0.00	0.00
ATOM	3649	HD3	ARG	X	242	47.305	33.927	65.118	0.00	0.00
ATOM	3650	NE	ARG	X	242	48.874	34.517	63.881	0.00	0.00
ATOM	3651	HE	ARG	X	242	48.257	34.176	63.158	0.00	0.00
ATOM	3652	CZ	ARG	X	242	50.061	35.000	63.482	0.00	0.00
ATOM	3653	NH1	ARG	X	242	51.005	35.204	64.374	0.00	0.00
ATOM	3654	HH11	ARG	X	242	50.993	34.729	65.265	0.00	0.00
ATOM	3655	HH12	ARG	X	242	51.920	35.479	64.048	0.00	0.00
ATOM	3656	NH2	ARG	X	242	50.243	35.201	62.224	0.00	0.00
ATOM	3657	HH21	ARG	X	242	49.547	34.914	61.551	0.00	0.00
ATOM	3658	HH22	ARG	X	242	51.042	35.668	61.820	0.00	0.00
ATOM	3659	C	ARG	X	242	48.694	38.748	64.996	0.00	0.00
ATOM	3660	O	ARG	X	242	49.445	39.076	65.899	0.00	0.00
ATOM	3661	N	ARG	X	243	48.827	38.987	63.702	0.00	0.00
ATOM	3662	H	ARG	X	243	48.036	38.662	63.165	0.00	0.00
ATOM	3663	CA	ARG	X	243	49.928	39.787	63.198	0.00	0.00
ATOM	3664	HA	ARG	X	243	50.725	39.082	63.433	0.00	0.00
ATOM	3665	CB	ARG	X	243	49.866	39.945	61.703	0.00	0.00
ATOM	3666	HB2	ARG	X	243	48.920	40.469	61.567	0.00	0.00
ATOM	3667	HB3	ARG	X	243	50.734	40.506	61.355	0.00	0.00
ATOM	3668	CG	ARG	X	243	49.815	38.595	61.013	0.00	0.00
ATOM	3669	HG2	ARG	X	243	50.790	38.117	61.099	0.00	0.00
ATOM	3670	HG3	ARG	X	243	49.184	37.840	61.483	0.00	0.00
ATOM	3671	CD	ARG	X	243	49.256	38.678	59.583	0.00	0.00
ATOM	3672	HD2	ARG	X	243	48.194	38.893	59.698	0.00	0.00
ATOM	3673	HD3	ARG	X	243	49.796	39.517	59.146	0.00	0.00
ATOM	3674	NE	ARG	X	243	49.354	37.330	58.956	0.00	0.00
ATOM	3675	HE	ARG	X	243	49.253	36.520	59.551	0.00	0.00
ATOM	3676	CZ	ARG	X	243	49.333	37.048	57.687	0.00	0.00
ATOM	3677	NH1	ARG	X	243	49.403	37.986	56.764	0.00	0.00
ATOM	3678	HH11	ARG	X	243	49.656	38.934	57.002	0.00	0.00

ATOM	3679	HH12	ARG	X	243	49.477	37.686	55.803	0.00	0.00
ATOM	3680	NH2	ARG	X	243	49.127	35.786	57.349	0.00	0.00
ATOM	3681	HH21	ARG	X	243	48.867	35.261	58.172	0.00	0.00
ATOM	3682	HH22	ARG	X	243	49.016	35.510	56.384	0.00	0.00
ATOM	3683	C	ARG	X	243	50.160	41.052	63.961	0.00	0.00
ATOM	3684	O	ARG	X	243	51.297	41.464	64.117	0.00	0.00
ATOM	3685	N	ALA	X	244	49.070	41.777	64.337	0.00	0.00
ATOM	3686	H	ALA	X	244	48.209	41.516	63.878	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.152	43.048	65.001	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.850	43.662	64.431	0.00	0.00
ATOM	3689	CB	ALA	X	244	47.701	43.602	65.058	0.00	0.00
ATOM	3690	HB1	ALA	X	244	47.797	44.627	65.414	0.00	0.00
ATOM	3691	HB2	ALA	X	244	47.433	43.847	64.030	0.00	0.00
ATOM	3692	HB3	ALA	X	244	46.939	43.136	65.683	0.00	0.00
ATOM	3693	C	ALA	X	244	49.584	42.887	66.444	0.00	0.00
ATOM	3694	O	ALA	X	244	50.488	43.631	66.852	0.00	0.00
ATOM	3695	N	THR	X	245	49.095	41.896	67.202	0.00	0.00
ATOM	3696	H	THR	X	245	48.410	41.274	66.797	0.00	0.00
ATOM	3697	CA	THR	X	245	49.479	41.737	68.664	0.00	0.00
ATOM	3698	HA	THR	X	245	49.428	42.689	69.192	0.00	0.00
ATOM	3699	CB	THR	X	245	48.525	40.751	69.244	0.00	0.00
ATOM	3700	HB	THR	X	245	48.821	39.840	68.724	0.00	0.00
ATOM	3701	CG2	THR	X	245	48.640	40.589	70.739	0.00	0.00
ATOM	3702	HG21	THR	X	245	47.982	39.788	71.075	0.00	0.00
ATOM	3703	HG22	THR	X	245	49.682	40.330	70.931	0.00	0.00
ATOM	3704	HG23	THR	X	245	48.517	41.511	71.307	0.00	0.00
ATOM	3705	OG1	THR	X	245	47.204	41.092	68.966	0.00	0.00
ATOM	3706	HG1	THR	X	245	46.910	40.607	68.192	0.00	0.00
ATOM	3707	C	THR	X	245	50.945	41.189	68.712	0.00	0.00
ATOM	3708	O	THR	X	245	51.711	41.318	69.654	0.00	0.00
ATOM	3709	N	GLN	X	246	51.393	40.623	67.579	0.00	0.00
ATOM	3710	H	GLN	X	246	50.764	40.511	66.797	0.00	0.00
ATOM	3711	CA	GLN	X	246	52.793	40.140	67.459	0.00	0.00
ATOM	3712	HA	GLN	X	246	53.201	39.778	68.403	0.00	0.00
ATOM	3713	CB	GLN	X	246	52.776	38.976	66.459	0.00	0.00
ATOM	3714	HB2	GLN	X	246	52.140	38.167	66.818	0.00	0.00
ATOM	3715	HB3	GLN	X	246	52.259	39.338	65.571	0.00	0.00
ATOM	3716	CG	GLN	X	246	54.122	38.357	66.191	0.00	0.00
ATOM	3717	HG2	GLN	X	246	54.908	38.998	65.791	0.00	0.00
ATOM	3718	HG3	GLN	X	246	54.439	38.233	67.226	0.00	0.00
ATOM	3719	CD	GLN	X	246	54.043	36.933	65.649	0.00	0.00
ATOM	3720	OE1	GLN	X	246	53.766	36.720	64.454	0.00	0.00
ATOM	3721	NE2	GLN	X	246	54.273	35.861	66.336	0.00	0.00
ATOM	3722	HE21	GLN	X	246	54.165	34.965	65.881	0.00	0.00
ATOM	3723	HE22	GLN	X	246	54.682	35.871	67.259	0.00	0.00
ATOM	3724	C	GLN	X	246	53.742	41.247	67.024	0.00	0.00
ATOM	3725	O	GLN	X	246	54.851	41.377	67.589	0.00	0.00
ATOM	3726	N	LEU	X	247	53.328	42.077	66.086	0.00	0.00
ATOM	3727	H	LEU	X	247	52.416	41.996	65.659	0.00	0.00
ATOM	3728	CA	LEU	X	247	54.123	43.251	65.800	0.00	0.00
ATOM	3729	HA	LEU	X	247	55.127	42.886	65.581	0.00	0.00
ATOM	3730	CB	LEU	X	247	53.449	43.866	64.554	0.00	0.00
ATOM	3731	HB2	LEU	X	247	53.335	43.196	63.701	0.00	0.00
ATOM	3732	HB3	LEU	X	247	52.490	44.295	64.842	0.00	0.00
ATOM	3733	CG	LEU	X	247	54.291	45.067	64.045	0.00	0.00
ATOM	3734	HG	LEU	X	247	54.341	45.772	64.875	0.00	0.00
ATOM	3735	CD1	LEU	X	247	55.701	44.670	63.585	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.552	43.927	62.802	0.00	0.00
ATOM	3737	HD12	LEU	X	247	56.229	45.553	63.225	0.00	0.00
ATOM	3738	HD13	LEU	X	247	56.285	44.262	64.411	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.620	45.675	62.840	0.00	0.00
ATOM	3740	HD21	LEU	X	247	53.997	46.691	62.726	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.805	45.195	61.879	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.563	45.832	63.053	0.00	0.00
ATOM	3743	C	LEU	X	247	54.230	44.157	66.993	0.00	0.00
ATOM	3744	O	LEU	X	247	55.288	44.663	67.236	0.00	0.00
ATOM	3745	N	ALA	X	248	53.123	44.322	67.683	0.00	0.00
ATOM	3746	H	ALA	X	248	52.295	43.843	67.359	0.00	0.00
ATOM	3747	CA	ALA	X	248	53.174	45.167	68.879	0.00	0.00
ATOM	3748	HA	ALA	X	248	53.564	46.126	68.538	0.00	0.00

ATOM	3749	CB	ALA	X	248	51.795	45.320	69.394	0.00	0.00
ATOM	3750	HB1	ALA	X	248	51.877	45.928	70.296	0.00	0.00
ATOM	3751	HB2	ALA	X	248	51.122	45.921	68.783	0.00	0.00
ATOM	3752	HB3	ALA	X	248	51.332	44.368	69.651	0.00	0.00
ATOM	3753	C	ALA	X	248	54.186	44.669	69.982	0.00	0.00
ATOM	3754	O	ALA	X	248	55.010	45.416	70.399	0.00	0.00
ATOM	3755	N	HIE	X	249	54.211	43.316	70.378	0.00	0.00
ATOM	3756	H	HIE	X	249	53.471	42.790	69.936	0.00	0.00
ATOM	3757	CA	HIE	X	249	55.279	42.764	71.251	0.00	0.00
ATOM	3758	HA	HIE	X	249	55.133	43.253	72.214	0.00	0.00
ATOM	3759	CB	HIE	X	249	55.048	41.285	71.596	0.00	0.00
ATOM	3760	HB2	HIE	X	249	53.981	41.076	71.656	0.00	0.00
ATOM	3761	HB3	HIE	X	249	55.492	40.658	70.823	0.00	0.00
ATOM	3762	CG	HIE	X	249	55.712	40.768	72.932	0.00	0.00
ATOM	3763	ND1	HIE	X	249	57.030	40.393	73.066	0.00	0.00
ATOM	3764	CE1	HIE	X	249	57.250	40.056	74.356	0.00	0.00
ATOM	3765	HE1	HIE	X	249	58.157	39.648	74.777	0.00	0.00
ATOM	3766	NE2	HIE	X	249	56.057	40.247	75.067	0.00	0.00
ATOM	3767	HE2	HIE	X	249	55.797	39.884	75.973	0.00	0.00
ATOM	3768	CD2	HIE	X	249	55.115	40.720	74.194	0.00	0.00
ATOM	3769	HD2	HIE	X	249	54.105	40.991	74.462	0.00	0.00
ATOM	3770	C	HIE	X	249	56.675	43.060	70.684	0.00	0.00
ATOM	3771	O	HIE	X	249	57.570	43.425	71.419	0.00	0.00
ATOM	3772	N	LEU	X	250	56.861	42.880	69.364	0.00	0.00
ATOM	3773	H	LEU	X	250	56.126	42.527	68.769	0.00	0.00
ATOM	3774	CA	LEU	X	250	58.170	42.972	68.834	0.00	0.00
ATOM	3775	HA	LEU	X	250	58.882	42.557	69.547	0.00	0.00
ATOM	3776	CB	LEU	X	250	58.213	42.395	67.499	0.00	0.00
ATOM	3777	HB2	LEU	X	250	57.383	42.804	66.923	0.00	0.00
ATOM	3778	HB3	LEU	X	250	59.151	42.747	67.071	0.00	0.00
ATOM	3779	CG	LEU	X	250	58.201	40.885	67.481	0.00	0.00
ATOM	3780	HG	LEU	X	250	57.338	40.545	68.053	0.00	0.00
ATOM	3781	CD1	LEU	X	250	57.964	40.406	66.110	0.00	0.00
ATOM	3782	HD11	LEU	X	250	58.259	39.382	65.880	0.00	0.00
ATOM	3783	HD12	LEU	X	250	56.938	40.581	65.788	0.00	0.00
ATOM	3784	HD13	LEU	X	250	58.538	40.994	65.394	0.00	0.00
ATOM	3785	CD2	LEU	X	250	59.464	40.306	68.219	0.00	0.00
ATOM	3786	HD21	LEU	X	250	59.357	40.622	69.257	0.00	0.00
ATOM	3787	HD22	LEU	X	250	59.492	39.243	67.978	0.00	0.00
ATOM	3788	HD23	LEU	X	250	60.385	40.763	67.856	0.00	0.00
ATOM	3789	C	LEU	X	250	58.641	44.456	68.923	0.00	0.00
ATOM	3790	O	LEU	X	250	59.818	44.690	69.203	0.00	0.00
ATOM	3791	N	VAL	X	251	57.777	45.435	68.679	0.00	0.00
ATOM	3792	H	VAL	X	251	56.866	45.192	68.316	0.00	0.00
ATOM	3793	CA	VAL	X	251	58.066	46.826	68.659	0.00	0.00
ATOM	3794	HA	VAL	X	251	59.020	46.878	68.135	0.00	0.00
ATOM	3795	CB	VAL	X	251	56.969	47.591	67.886	0.00	0.00
ATOM	3796	HB	VAL	X	251	56.000	47.248	68.249	0.00	0.00
ATOM	3797	CG1	VAL	X	251	56.831	49.092	67.980	0.00	0.00
ATOM	3798	HG11	VAL	X	251	56.134	49.472	67.233	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.357	49.320	68.934	0.00	0.00
ATOM	3800	HG13	VAL	X	251	57.781	49.626	67.957	0.00	0.00
ATOM	3801	CG2	VAL	X	251	57.175	47.145	66.384	0.00	0.00
ATOM	3802	HG21	VAL	X	251	56.245	47.459	65.910	0.00	0.00
ATOM	3803	HG22	VAL	X	251	57.976	47.648	65.842	0.00	0.00
ATOM	3804	HG23	VAL	X	251	57.332	46.070	66.296	0.00	0.00
ATOM	3805	C	VAL	X	251	58.238	47.376	70.086	0.00	0.00
ATOM	3806	O	VAL	X	251	59.044	48.343	70.236	0.00	0.00
ATOM	3807	N	GLY	X	252	57.465	46.915	71.087	0.00	0.00
ATOM	3808	H	GLY	X	252	56.721	46.287	70.818	0.00	0.00
ATOM	3809	CA	GLY	X	252	57.724	47.297	72.490	0.00	0.00
ATOM	3810	HA2	GLY	X	252	58.110	46.404	73.022	0.00	0.00
ATOM	3811	HA3	GLY	X	252	58.445	48.079	72.678	0.00	0.00
ATOM	3812	C	GLY	X	252	56.452	47.820	73.189	0.00	0.00
ATOM	3813	O	GLY	X	252	56.584	48.814	73.869	0.00	0.00
ATOM	3814	N	CYX	X	253	55.302	47.178	72.926	0.00	0.00
ATOM	3815	H	CYX	X	253	55.476	46.392	72.316	0.00	0.00
ATOM	3816	CA	CYX	X	253	53.939	47.620	73.258	0.00	0.00
ATOM	3817	HA	CYX	X	253	54.106	48.460	73.932	0.00	0.00
ATOM	3818	CB	CYX	X	253	53.222	48.115	71.970	0.00	0.00

ATOM	3819	HB2	CYX	X	253	53.387	47.337	71.225	0.00	0.00
ATOM	3820	HB3	CYX	X	253	52.153	48.193	72.169	0.00	0.00
ATOM	3821	SG	CYX	X	253	53.921	49.594	71.196	0.00	0.00
ATOM	3822	C	CYX	X	253	53.211	46.540	73.986	0.00	0.00
ATOM	3823	O	CYX	X	253	52.888	45.501	73.394	0.00	0.00
ATOM	3824	N	PRO	X	254	52.919	46.800	75.290	0.00	0.00
ATOM	3825	CD	PRO	X	254	52.084	45.818	75.990	0.00	0.00
ATOM	3826	HD2	PRO	X	254	52.467	44.811	75.820	0.00	0.00
ATOM	3827	HD3	PRO	X	254	51.051	45.784	75.643	0.00	0.00
ATOM	3828	CG	PRO	X	254	52.299	46.088	77.485	0.00	0.00
ATOM	3829	HG2	PRO	X	254	53.123	45.424	77.746	0.00	0.00
ATOM	3830	HG3	PRO	X	254	51.417	45.988	78.118	0.00	0.00
ATOM	3831	CB	PRO	X	254	52.799	47.553	77.516	0.00	0.00
ATOM	3832	HB2	PRO	X	254	53.487	47.794	78.327	0.00	0.00
ATOM	3833	HB3	PRO	X	254	52.010	48.299	77.421	0.00	0.00
ATOM	3834	CA	PRO	X	254	53.583	47.724	76.221	0.00	0.00
ATOM	3835	HA	PRO	X	254	53.504	48.777	75.948	0.00	0.00
ATOM	3836	C	PRO	X	254	55.009	47.375	76.539	0.00	0.00
ATOM	3837	O	PRO	X	254	55.410	46.289	76.311	0.00	0.00
ATOM	3838	N	PRO	X	255	55.811	48.187	77.180	0.00	0.00
ATOM	3839	CD	PRO	X	255	55.558	49.656	77.403	0.00	0.00
ATOM	3840	HD2	PRO	X	255	54.556	49.808	77.804	0.00	0.00
ATOM	3841	HD3	PRO	X	255	55.695	50.137	76.434	0.00	0.00
ATOM	3842	CG	PRO	X	255	56.623	50.171	78.427	0.00	0.00
ATOM	3843	HG2	PRO	X	255	56.198	50.006	79.417	0.00	0.00
ATOM	3844	HG3	PRO	X	255	56.908	51.214	78.286	0.00	0.00
ATOM	3845	CB	PRO	X	255	57.791	49.229	78.027	0.00	0.00
ATOM	3846	HB2	PRO	X	255	58.560	49.229	78.800	0.00	0.00
ATOM	3847	HB3	PRO	X	255	58.168	49.656	77.098	0.00	0.00
ATOM	3848	CA	PRO	X	255	57.098	47.863	77.841	0.00	0.00
ATOM	3849	HA	PRO	X	255	57.747	47.310	77.162	0.00	0.00
ATOM	3850	C	PRO	X	255	56.975	47.036	79.101	0.00	0.00
ATOM	3851	O	PRO	X	255	57.842	47.045	79.949	0.00	0.00
ATOM	3852	N	GLY	X	256	55.940	46.194	79.288	0.00	0.00
ATOM	3853	H	GLY	X	256	55.196	46.253	78.607	0.00	0.00
ATOM	3854	CA	GLY	X	256	55.369	45.528	80.463	0.00	0.00
ATOM	3855	HA2	GLY	X	256	55.139	44.458	80.196	0.00	0.00
ATOM	3856	HA3	GLY	X	256	56.138	45.505	81.236	0.00	0.00
ATOM	3857	C	GLY	X	256	54.125	46.165	81.060	0.00	0.00
ATOM	3858	O	GLY	X	256	53.823	47.327	80.939	0.00	0.00
ATOM	3859	N	GLY	X	257	53.470	45.365	81.874	0.00	0.00
ATOM	3860	H	GLY	X	257	53.695	44.386	81.771	0.00	0.00
ATOM	3861	CA	GLY	X	257	52.267	45.831	82.653	0.00	0.00
ATOM	3862	HA2	GLY	X	257	52.111	45.184	83.515	0.00	0.00
ATOM	3863	HA3	GLY	X	257	52.419	46.790	83.013	0.00	0.00
ATOM	3864	C	GLY	X	257	50.976	45.829	81.743	0.00	0.00
ATOM	3865	O	GLY	X	257	50.874	45.096	80.762	0.00	0.00
ATOM	3866	N	THR	X	258	50.114	46.675	82.215	0.00	0.00
ATOM	3867	H	THR	X	258	50.381	47.314	82.950	0.00	0.00
ATOM	3868	CA	THR	X	258	48.902	47.125	81.509	0.00	0.00
ATOM	3869	HA	THR	X	258	48.308	46.242	81.274	0.00	0.00
ATOM	3870	CB	THR	X	258	48.179	48.049	82.412	0.00	0.00
ATOM	3871	HB	THR	X	258	47.372	48.487	81.824	0.00	0.00
ATOM	3872	CG2	THR	X	258	47.597	47.451	83.708	0.00	0.00
ATOM	3873	HG21	THR	X	258	46.899	46.670	83.407	0.00	0.00
ATOM	3874	HG22	THR	X	258	48.423	47.031	84.283	0.00	0.00
ATOM	3875	HG23	THR	X	258	47.004	48.233	84.183	0.00	0.00
ATOM	3876	OG1	THR	X	258	49.181	49.006	82.949	0.00	0.00
ATOM	3877	HG1	THR	X	258	48.707	49.802	83.199	0.00	0.00
ATOM	3878	C	THR	X	258	49.285	47.777	80.178	0.00	0.00
ATOM	3879	O	THR	X	258	50.394	48.280	79.948	0.00	0.00
ATOM	3880	N	GLY	X	259	48.353	47.723	79.227	0.00	0.00
ATOM	3881	H	GLY	X	259	47.402	47.471	79.456	0.00	0.00
ATOM	3882	CA	GLY	X	259	48.543	48.155	77.791	0.00	0.00
ATOM	3883	HA2	GLY	X	259	47.714	48.769	77.488	0.00	0.00
ATOM	3884	HA3	GLY	X	259	49.400	48.772	77.739	0.00	0.00
ATOM	3885	C	GLY	X	259	48.687	47.014	76.806	0.00	0.00
ATOM	3886	O	GLY	X	259	49.025	47.199	75.630	0.00	0.00
ATOM	3887	N	GLY	X	260	48.357	45.814	77.310	0.00	0.00
ATOM	3888	H	GLY	X	260	47.983	45.765	78.247	0.00	0.00

ATOM	3889	CA	GLY	X	260	48.405	44.493	76.610	0.00	0.00
ATOM	3890	HA2	GLY	X	260	49.062	44.524	75.874	0.00	0.00
ATOM	3891	HA3	GLY	X	260	48.642	43.693	77.242	0.00	0.00
ATOM	3892	C	GLY	X	260	47.129	44.138	75.802	0.00	0.00
ATOM	3893	O	GLY	X	260	47.031	43.184	75.050	0.00	0.00
ATOM	3894	N	ASN	X	261	46.123	44.925	76.134	0.00	0.00
ATOM	3895	H	ASN	X	261	46.303	45.676	76.785	0.00	0.00
ATOM	3896	CA	ASN	X	261	44.810	44.993	75.417	0.00	0.00
ATOM	3897	HA	ASN	X	261	44.459	43.974	75.252	0.00	0.00
ATOM	3898	CB	ASN	X	261	43.816	45.751	76.341	0.00	0.00
ATOM	3899	HB2	ASN	X	261	43.742	45.071	77.190	0.00	0.00
ATOM	3900	HB3	ASN	X	261	44.349	46.668	76.593	0.00	0.00
ATOM	3901	CG	ASN	X	261	42.536	45.916	75.637	0.00	0.00
ATOM	3902	OD1	ASN	X	261	42.280	46.940	75.171	0.00	0.00
ATOM	3903	ND2	ASN	X	261	41.790	44.812	75.525	0.00	0.00
ATOM	3904	HD21	ASN	X	261	40.848	44.855	75.163	0.00	0.00
ATOM	3905	HD22	ASN	X	261	42.169	43.981	75.957	0.00	0.00
ATOM	3906	C	ASN	X	261	44.836	45.757	74.135	0.00	0.00
ATOM	3907	O	ASN	X	261	45.586	46.657	74.018	0.00	0.00
ATOM	3908	N	ASP	X	262	44.071	45.267	73.131	0.00	0.00
ATOM	3909	H	ASP	X	262	43.358	44.556	73.218	0.00	0.00
ATOM	3910	CA	ASP	X	262	44.103	45.800	71.769	0.00	0.00
ATOM	3911	HA	ASP	X	262	44.972	45.402	71.245	0.00	0.00
ATOM	3912	CB	ASP	X	262	43.003	45.176	70.940	0.00	0.00
ATOM	3913	HB2	ASP	X	262	42.049	45.656	71.157	0.00	0.00
ATOM	3914	HB3	ASP	X	262	43.248	45.372	69.896	0.00	0.00
ATOM	3915	CG	ASP	X	262	43.005	43.704	71.263	0.00	0.00
ATOM	3916	OD1	ASP	X	262	43.747	43.039	70.532	0.00	0.00
ATOM	3917	OD2	ASP	X	262	42.329	43.244	72.204	0.00	0.00
ATOM	3918	C	ASP	X	262	44.150	47.283	71.599	0.00	0.00
ATOM	3919	O	ASP	X	262	45.070	47.750	70.924	0.00	0.00
ATOM	3920	N	THR	X	263	43.165	48.080	72.110	0.00	0.00
ATOM	3921	H	THR	X	263	42.396	47.661	72.613	0.00	0.00
ATOM	3922	CA	THR	X	263	43.180	49.519	71.862	0.00	0.00
ATOM	3923	HA	THR	X	263	43.122	49.576	70.775	0.00	0.00
ATOM	3924	CB	THR	X	263	41.889	50.087	72.471	0.00	0.00
ATOM	3925	HB	THR	X	263	41.943	50.196	73.555	0.00	0.00
ATOM	3926	CG2	THR	X	263	41.686	51.480	71.853	0.00	0.00
ATOM	3927	HG21	THR	X	263	42.499	52.157	72.117	0.00	0.00
ATOM	3928	HG22	THR	X	263	41.903	51.269	70.806	0.00	0.00
ATOM	3929	HG23	THR	X	263	40.677	51.855	72.021	0.00	0.00
ATOM	3930	OG1	THR	X	263	40.809	49.300	72.273	0.00	0.00
ATOM	3931	HG1	THR	X	263	40.157	49.730	72.832	0.00	0.00
ATOM	3932	C	THR	X	263	44.350	50.248	72.390	0.00	0.00
ATOM	3933	O	THR	X	263	44.780	51.202	71.778	0.00	0.00
ATOM	3934	N	GLU	X	264	44.977	49.684	73.453	0.00	0.00
ATOM	3935	H	GLU	X	264	44.596	48.844	73.865	0.00	0.00
ATOM	3936	CA	GLU	X	264	46.199	50.255	74.041	0.00	0.00
ATOM	3937	HA	GLU	X	264	46.279	51.331	73.887	0.00	0.00
ATOM	3938	CB	GLU	X	264	46.230	49.964	75.485	0.00	0.00
ATOM	3939	HB2	GLU	X	264	46.215	48.876	75.543	0.00	0.00
ATOM	3940	HB3	GLU	X	264	47.110	50.462	75.891	0.00	0.00
ATOM	3941	CG	GLU	X	264	44.946	50.595	76.208	0.00	0.00
ATOM	3942	HG2	GLU	X	264	44.687	51.490	75.642	0.00	0.00
ATOM	3943	HG3	GLU	X	264	44.053	49.975	76.133	0.00	0.00
ATOM	3944	CD	GLU	X	264	45.309	50.931	77.632	0.00	0.00
ATOM	3945	OE1	GLU	X	264	45.256	50.051	78.492	0.00	0.00
ATOM	3946	OE2	GLU	X	264	45.478	52.093	78.037	0.00	0.00
ATOM	3947	C	GLU	X	264	47.461	49.745	73.317	0.00	0.00
ATOM	3948	O	GLU	X	264	48.505	50.403	73.302	0.00	0.00
ATOM	3949	N	LEU	X	265	47.411	48.576	72.591	0.00	0.00
ATOM	3950	H	LEU	X	265	46.550	48.050	72.646	0.00	0.00
ATOM	3951	CA	LEU	X	265	48.404	48.156	71.608	0.00	0.00
ATOM	3952	HA	LEU	X	265	49.400	48.367	71.998	0.00	0.00
ATOM	3953	CB	LEU	X	265	48.228	46.688	71.225	0.00	0.00
ATOM	3954	HB2	LEU	X	265	47.209	46.708	70.840	0.00	0.00
ATOM	3955	HB3	LEU	X	265	48.984	46.446	70.478	0.00	0.00
ATOM	3956	CG	LEU	X	265	48.330	45.606	72.307	0.00	0.00
ATOM	3957	HG	LEU	X	265	47.604	45.904	73.063	0.00	0.00
ATOM	3958	CD1	LEU	X	265	47.809	44.242	71.858	0.00	0.00

ATOM	3959	HD11	LEU	X	265	46.735	44.178	71.682	0.00	0.00
ATOM	3960	HD12	LEU	X	265	48.308	43.980	70.925	0.00	0.00
ATOM	3961	HD13	LEU	X	265	47.940	43.551	72.690	0.00	0.00
ATOM	3962	CD2	LEU	X	265	49.707	45.459	72.925	0.00	0.00
ATOM	3963	HD21	LEU	X	265	50.286	44.971	72.141	0.00	0.00
ATOM	3964	HD22	LEU	X	265	50.068	46.421	73.288	0.00	0.00
ATOM	3965	HD23	LEU	X	265	49.687	44.741	73.746	0.00	0.00
ATOM	3966	C	LEU	X	265	48.358	49.100	70.407	0.00	0.00
ATOM	3967	O	LEU	X	265	49.388	49.658	69.987	0.00	0.00
ATOM	3968	N	VAL	X	266	47.135	49.367	69.925	0.00	0.00
ATOM	3969	H	VAL	X	266	46.372	48.728	70.095	0.00	0.00
ATOM	3970	CA	VAL	X	266	46.981	50.240	68.793	0.00	0.00
ATOM	3971	HA	VAL	X	266	47.718	49.895	68.068	0.00	0.00
ATOM	3972	CB	VAL	X	266	45.559	50.044	68.165	0.00	0.00
ATOM	3973	HB	VAL	X	266	44.972	49.955	69.079	0.00	0.00
ATOM	3974	CG1	VAL	X	266	45.093	51.214	67.273	0.00	0.00
ATOM	3975	HG11	VAL	X	266	44.067	51.012	66.965	0.00	0.00
ATOM	3976	HG12	VAL	X	266	45.126	52.097	67.912	0.00	0.00
ATOM	3977	HG13	VAL	X	266	45.755	51.325	66.413	0.00	0.00
ATOM	3978	CG2	VAL	X	266	45.482	48.679	67.402	0.00	0.00
ATOM	3979	HG21	VAL	X	266	45.492	47.825	68.080	0.00	0.00
ATOM	3980	HG22	VAL	X	266	44.570	48.560	66.816	0.00	0.00
ATOM	3981	HG23	VAL	X	266	46.271	48.603	66.654	0.00	0.00
ATOM	3982	C	VAL	X	266	47.401	51.669	69.209	0.00	0.00
ATOM	3983	O	VAL	X	266	47.885	52.421	68.355	0.00	0.00
ATOM	3984	N	ALA	X	267	47.328	51.978	70.501	0.00	0.00
ATOM	3985	H	ALA	X	267	46.867	51.413	71.199	0.00	0.00
ATOM	3986	CA	ALA	X	267	47.767	53.245	70.996	0.00	0.00
ATOM	3987	HA	ALA	X	267	47.320	54.043	70.404	0.00	0.00
ATOM	3988	CB	ALA	X	267	47.371	53.573	72.508	0.00	0.00
ATOM	3989	HB1	ALA	X	267	47.589	54.626	72.684	0.00	0.00
ATOM	3990	HB2	ALA	X	267	46.301	53.382	72.592	0.00	0.00
ATOM	3991	HB3	ALA	X	267	47.800	52.882	73.235	0.00	0.00
ATOM	3992	C	ALA	X	267	49.287	53.304	70.942	0.00	0.00
ATOM	3993	O	ALA	X	267	49.829	54.304	70.415	0.00	0.00
ATOM	3994	N	CYX	X	268	50.018	52.277	71.461	0.00	0.00
ATOM	3995	H	CYX	X	268	49.601	51.455	71.873	0.00	0.00
ATOM	3996	CA	CYX	X	268	51.491	52.312	71.500	0.00	0.00
ATOM	3997	HA	CYX	X	268	51.907	53.280	71.779	0.00	0.00
ATOM	3998	CB	CYX	X	268	52.036	51.284	72.526	0.00	0.00
ATOM	3999	HB2	CYX	X	268	51.629	51.602	73.486	0.00	0.00
ATOM	4000	HB3	CYX	X	268	51.632	50.291	72.330	0.00	0.00
ATOM	4001	SG	CYX	X	268	53.806	51.029	72.598	0.00	0.00
ATOM	4002	C	CYX	X	268	52.044	52.071	70.078	0.00	0.00
ATOM	4003	O	CYX	X	268	52.999	52.721	69.711	0.00	0.00
ATOM	4004	N	LEU	X	269	51.392	51.324	69.185	0.00	0.00
ATOM	4005	H	LEU	X	269	50.682	50.731	69.591	0.00	0.00
ATOM	4006	CA	LEU	X	269	51.869	51.151	67.824	0.00	0.00
ATOM	4007	HA	LEU	X	269	52.925	50.882	67.863	0.00	0.00
ATOM	4008	CB	LEU	X	269	51.074	49.922	67.196	0.00	0.00
ATOM	4009	HB2	LEU	X	269	51.042	49.102	67.913	0.00	0.00
ATOM	4010	HB3	LEU	X	269	50.070	50.268	66.951	0.00	0.00
ATOM	4011	CG	LEU	X	269	51.857	49.222	66.039	0.00	0.00
ATOM	4012	HG	LEU	X	269	52.018	49.982	65.274	0.00	0.00
ATOM	4013	CD1	LEU	X	269	53.242	48.604	66.426	0.00	0.00
ATOM	4014	HD11	LEU	X	269	53.987	49.392	66.532	0.00	0.00
ATOM	4015	HD12	LEU	X	269	53.254	48.134	67.410	0.00	0.00
ATOM	4016	HD13	LEU	X	269	53.634	47.958	65.641	0.00	0.00
ATOM	4017	CD2	LEU	X	269	50.940	48.134	65.454	0.00	0.00
ATOM	4018	HD21	LEU	X	269	51.462	47.854	64.539	0.00	0.00
ATOM	4019	HD22	LEU	X	269	50.965	47.289	66.142	0.00	0.00
ATOM	4020	HD23	LEU	X	269	49.986	48.587	65.183	0.00	0.00
ATOM	4021	C	LEU	X	269	51.824	52.477	66.986	0.00	0.00
ATOM	4022	O	LEU	X	269	52.467	52.566	65.914	0.00	0.00
ATOM	4023	N	ARG	X	270	51.041	53.416	67.481	0.00	0.00
ATOM	4024	H	ARG	X	270	50.551	53.150	68.323	0.00	0.00
ATOM	4025	CA	ARG	X	270	51.010	54.800	66.944	0.00	0.00
ATOM	4026	HA	ARG	X	270	51.099	54.735	65.860	0.00	0.00
ATOM	4027	CB	ARG	X	270	49.608	55.442	67.164	0.00	0.00
ATOM	4028	HB2	ARG	X	270	49.177	55.230	68.142	0.00	0.00

ATOM	4029	HB3	ARG	X	270	49.628	56.523	67.025	0.00	0.00
ATOM	4030	CG	ARG	X	270	48.628	54.893	66.011	0.00	0.00
ATOM	4031	HG2	ARG	X	270	49.065	54.954	65.014	0.00	0.00
ATOM	4032	HG3	ARG	X	270	48.404	53.841	66.186	0.00	0.00
ATOM	4033	CD	ARG	X	270	47.328	55.754	65.927	0.00	0.00
ATOM	4034	HD2	ARG	X	270	47.680	56.754	66.178	0.00	0.00
ATOM	4035	HD3	ARG	X	270	47.046	55.658	64.878	0.00	0.00
ATOM	4036	NE	ARG	X	270	46.283	55.254	66.824	0.00	0.00
ATOM	4037	HE	ARG	X	270	46.400	55.502	67.796	0.00	0.00
ATOM	4038	CZ	ARG	X	270	45.026	54.935	66.396	0.00	0.00
ATOM	4039	NH1	ARG	X	270	44.742	54.750	65.162	0.00	0.00
ATOM	4040	HH11	ARG	X	270	45.408	54.856	64.410	0.00	0.00
ATOM	4041	HH12	ARG	X	270	43.827	54.462	64.846	0.00	0.00
ATOM	4042	NH2	ARG	X	270	44.111	54.718	67.315	0.00	0.00
ATOM	4043	HH21	ARG	X	270	44.316	54.771	68.303	0.00	0.00
ATOM	4044	HH22	ARG	X	270	43.206	54.320	67.108	0.00	0.00
ATOM	4045	C	ARG	X	270	52.219	55.606	67.427	0.00	0.00
ATOM	4046	O	ARG	X	270	52.793	56.363	66.604	0.00	0.00
ATOM	4047	N	THR	X	271	52.759	55.248	68.540	0.00	0.00
ATOM	4048	H	THR	X	271	52.304	54.512	69.060	0.00	0.00
ATOM	4049	CA	THR	X	271	53.817	55.998	69.239	0.00	0.00
ATOM	4050	HA	THR	X	271	53.642	57.034	68.948	0.00	0.00
ATOM	4051	CB	THR	X	271	53.749	55.947	70.768	0.00	0.00
ATOM	4052	HB	THR	X	271	54.054	54.983	71.177	0.00	0.00
ATOM	4053	CG2	THR	X	271	54.607	57.079	71.381	0.00	0.00
ATOM	4054	HG21	THR	X	271	54.155	58.058	71.224	0.00	0.00
ATOM	4055	HG22	THR	X	271	54.739	56.800	72.426	0.00	0.00
ATOM	4056	HG23	THR	X	271	55.573	57.218	70.895	0.00	0.00
ATOM	4057	OG1	THR	X	271	52.459	56.331	71.146	0.00	0.00
ATOM	4058	HG1	THR	X	271	52.382	56.179	72.091	0.00	0.00
ATOM	4059	C	THR	X	271	55.155	55.627	68.671	0.00	0.00
ATOM	4060	O	THR	X	271	55.951	56.520	68.261	0.00	0.00
ATOM	4061	N	ARG	X	272	55.537	54.364	68.684	0.00	0.00
ATOM	4062	H	ARG	X	272	54.967	53.678	69.157	0.00	0.00
ATOM	4063	CA	ARG	X	272	56.879	53.862	68.463	0.00	0.00
ATOM	4064	HA	ARG	X	272	57.682	54.433	68.929	0.00	0.00
ATOM	4065	CB	ARG	X	272	57.022	52.398	68.931	0.00	0.00
ATOM	4066	HB2	ARG	X	272	56.084	51.910	68.667	0.00	0.00
ATOM	4067	HB3	ARG	X	272	57.868	51.931	68.427	0.00	0.00
ATOM	4068	CG	ARG	X	272	57.210	52.267	70.422	0.00	0.00
ATOM	4069	HG2	ARG	X	272	58.085	52.858	70.694	0.00	0.00
ATOM	4070	HG3	ARG	X	272	56.399	52.745	70.972	0.00	0.00
ATOM	4071	CD	ARG	X	272	57.549	50.898	70.984	0.00	0.00
ATOM	4072	HD2	ARG	X	272	56.724	50.213	70.786	0.00	0.00
ATOM	4073	HD3	ARG	X	272	58.377	50.448	70.435	0.00	0.00
ATOM	4074	NE	ARG	X	272	57.867	50.847	72.417	0.00	0.00
ATOM	4075	HE	ARG	X	272	57.146	50.667	73.101	0.00	0.00
ATOM	4076	CZ	ARG	X	272	59.059	50.590	72.864	0.00	0.00
ATOM	4077	NH1	ARG	X	272	60.177	50.765	72.230	0.00	0.00
ATOM	4078	HH11	ARG	X	272	60.222	51.252	71.346	0.00	0.00
ATOM	4079	HH12	ARG	X	272	61.044	50.639	72.732	0.00	0.00
ATOM	4080	NH2	ARG	X	272	59.173	50.128	74.077	0.00	0.00
ATOM	4081	HH21	ARG	X	272	58.319	49.916	74.573	0.00	0.00
ATOM	4082	HH22	ARG	X	272	60.023	49.896	74.570	0.00	0.00
ATOM	4083	C	ARG	X	272	57.082	54.012	66.906	0.00	0.00
ATOM	4084	O	ARG	X	272	56.102	53.776	66.169	0.00	0.00
ATOM	4085	N	PRO	X	273	58.302	54.381	66.443	0.00	0.00
ATOM	4086	CD	PRO	X	273	59.584	54.266	67.171	0.00	0.00
ATOM	4087	HD2	PRO	X	273	59.796	53.250	67.505	0.00	0.00
ATOM	4088	HD3	PRO	X	273	59.502	54.940	68.024	0.00	0.00
ATOM	4089	CG	PRO	X	273	60.687	54.730	66.232	0.00	0.00
ATOM	4090	HG2	PRO	X	273	61.117	53.889	65.687	0.00	0.00
ATOM	4091	HG3	PRO	X	273	61.464	55.190	66.843	0.00	0.00
ATOM	4092	CB	PRO	X	273	59.920	55.633	65.293	0.00	0.00
ATOM	4093	HB2	PRO	X	273	60.361	55.679	64.297	0.00	0.00
ATOM	4094	HB3	PRO	X	273	60.034	56.610	65.763	0.00	0.00
ATOM	4095	CA	PRO	X	273	58.528	55.008	65.216	0.00	0.00
ATOM	4096	HA	PRO	X	273	57.821	55.801	64.972	0.00	0.00
ATOM	4097	C	PRO	X	273	58.564	53.967	64.043	0.00	0.00
ATOM	4098	O	PRO	X	273	59.006	52.870	64.167	0.00	0.00

ATOM	4099	N	ALA	X	274	58.118	54.430	62.898	0.00	0.00
ATOM	4100	H	ALA	X	274	57.837	55.398	62.826	0.00	0.00
ATOM	4101	CA	ALA	X	274	57.837	53.630	61.618	0.00	0.00
ATOM	4102	HA	ALA	X	274	56.906	53.064	61.659	0.00	0.00
ATOM	4103	CB	ALA	X	274	57.645	54.630	60.419	0.00	0.00
ATOM	4104	HB1	ALA	X	274	57.395	54.006	59.560	0.00	0.00
ATOM	4105	HB2	ALA	X	274	56.809	55.322	60.517	0.00	0.00
ATOM	4106	HB3	ALA	X	274	58.561	55.211	60.307	0.00	0.00
ATOM	4107	C	ALA	X	274	59.025	52.638	61.274	0.00	0.00
ATOM	4108	O	ALA	X	274	58.808	51.475	61.040	0.00	0.00
ATOM	4109	N	GLN	X	275	60.255	53.120	61.291	0.00	0.00
ATOM	4110	H	GLN	X	275	60.298	54.113	61.471	0.00	0.00
ATOM	4111	CA	GLN	X	275	61.518	52.433	61.054	0.00	0.00
ATOM	4112	HA	GLN	X	275	61.466	52.134	60.007	0.00	0.00
ATOM	4113	CB	GLN	X	275	62.716	53.413	61.067	0.00	0.00
ATOM	4114	HB2	GLN	X	275	62.525	54.305	60.471	0.00	0.00
ATOM	4115	HB3	GLN	X	275	62.953	53.745	62.078	0.00	0.00
ATOM	4116	CG	GLN	X	275	63.937	52.747	60.483	0.00	0.00
ATOM	4117	HG2	GLN	X	275	64.362	51.936	61.074	0.00	0.00
ATOM	4118	HG3	GLN	X	275	63.629	52.153	59.623	0.00	0.00
ATOM	4119	CD	GLN	X	275	65.094	53.590	60.024	0.00	0.00
ATOM	4120	OE1	GLN	X	275	65.110	54.785	59.937	0.00	0.00
ATOM	4121	NE2	GLN	X	275	66.168	52.923	59.686	0.00	0.00
ATOM	4122	HE21	GLN	X	275	67.044	53.310	59.366	0.00	0.00
ATOM	4123	HE22	GLN	X	275	66.204	51.939	59.912	0.00	0.00
ATOM	4124	C	GLN	X	275	61.831	51.227	62.028	0.00	0.00
ATOM	4125	O	GLN	X	275	62.443	50.288	61.555	0.00	0.00
ATOM	4126	N	VAL	X	276	61.322	51.291	63.230	0.00	0.00
ATOM	4127	H	VAL	X	276	60.865	52.112	63.600	0.00	0.00
ATOM	4128	CA	VAL	X	276	61.393	50.110	64.116	0.00	0.00
ATOM	4129	HA	VAL	X	276	62.241	49.503	63.798	0.00	0.00
ATOM	4130	CB	VAL	X	276	61.355	50.466	65.569	0.00	0.00
ATOM	4131	HB	VAL	X	276	60.684	51.303	65.757	0.00	0.00
ATOM	4132	CG1	VAL	X	276	60.977	49.284	66.586	0.00	0.00
ATOM	4133	HG11	VAL	X	276	61.143	49.682	67.587	0.00	0.00
ATOM	4134	HG12	VAL	X	276	59.966	48.974	66.324	0.00	0.00
ATOM	4135	HG13	VAL	X	276	61.606	48.430	66.336	0.00	0.00
ATOM	4136	CG2	VAL	X	276	62.793	50.903	65.933	0.00	0.00
ATOM	4137	HG21	VAL	X	276	63.507	50.108	65.718	0.00	0.00
ATOM	4138	HG22	VAL	X	276	63.167	51.709	65.302	0.00	0.00
ATOM	4139	HG23	VAL	X	276	62.943	51.199	66.972	0.00	0.00
ATOM	4140	C	VAL	X	276	60.148	49.245	63.874	0.00	0.00
ATOM	4141	O	VAL	X	276	60.305	48.048	63.835	0.00	0.00
ATOM	4142	N	LEU	X	277	58.935	49.783	63.615	0.00	0.00
ATOM	4143	H	LEU	X	277	58.918	50.781	63.770	0.00	0.00
ATOM	4144	CA	LEU	X	277	57.745	49.065	63.195	0.00	0.00
ATOM	4145	HA	LEU	X	277	57.416	48.412	64.003	0.00	0.00
ATOM	4146	CB	LEU	X	277	56.532	50.034	63.069	0.00	0.00
ATOM	4147	HB2	LEU	X	277	56.542	50.612	63.993	0.00	0.00
ATOM	4148	HB3	LEU	X	277	56.689	50.663	62.194	0.00	0.00
ATOM	4149	CG	LEU	X	277	55.216	49.341	62.888	0.00	0.00
ATOM	4150	HG	LEU	X	277	55.104	48.452	63.509	0.00	0.00
ATOM	4151	CD1	LEU	X	277	54.115	50.268	63.254	0.00	0.00
ATOM	4152	HD11	LEU	X	277	53.918	50.275	64.326	0.00	0.00
ATOM	4153	HD12	LEU	X	277	54.251	51.280	62.873	0.00	0.00
ATOM	4154	HD13	LEU	X	277	53.129	49.927	62.940	0.00	0.00
ATOM	4155	CD2	LEU	X	277	54.914	49.048	61.397	0.00	0.00
ATOM	4156	HD21	LEU	X	277	54.897	49.981	60.833	0.00	0.00
ATOM	4157	HD22	LEU	X	277	55.708	48.390	61.044	0.00	0.00
ATOM	4158	HD23	LEU	X	277	53.939	48.566	61.326	0.00	0.00
ATOM	4159	C	LEU	X	277	57.984	48.212	61.938	0.00	0.00
ATOM	4160	O	LEU	X	277	57.714	47.004	62.034	0.00	0.00
ATOM	4161	N	VAL	X	278	58.446	48.805	60.838	0.00	0.00
ATOM	4162	H	VAL	X	278	58.633	49.794	60.920	0.00	0.00
ATOM	4163	CA	VAL	X	278	58.824	48.196	59.561	0.00	0.00
ATOM	4164	HA	VAL	X	278	57.946	47.619	59.271	0.00	0.00
ATOM	4165	CB	VAL	X	278	58.985	49.185	58.391	0.00	0.00
ATOM	4166	HB	VAL	X	278	58.312	49.990	58.685	0.00	0.00
ATOM	4167	CG1	VAL	X	278	60.404	49.748	58.215	0.00	0.00
ATOM	4168	HG11	VAL	X	278	60.372	50.405	57.345	0.00	0.00

ATOM	4169	HG12	VAL	X	278	60.655	50.387	59.062	0.00	0.00
ATOM	4170	HG13	VAL	X	278	61.098	48.917	58.090	0.00	0.00
ATOM	4171	CG2	VAL	X	278	58.531	48.500	57.066	0.00	0.00
ATOM	4172	HG21	VAL	X	278	57.528	48.102	57.224	0.00	0.00
ATOM	4173	HG22	VAL	X	278	58.450	49.203	56.238	0.00	0.00
ATOM	4174	HG23	VAL	X	278	59.252	47.775	56.689	0.00	0.00
ATOM	4175	C	VAL	X	278	59.950	47.102	59.672	0.00	0.00
ATOM	4176	O	VAL	X	278	59.976	46.149	58.983	0.00	0.00
ATOM	4177	N	ASN	X	279	60.873	47.177	60.666	0.00	0.00
ATOM	4178	H	ASN	X	279	60.952	48.007	61.237	0.00	0.00
ATOM	4179	CA	ASN	X	279	61.815	46.073	60.909	0.00	0.00
ATOM	4180	HA	ASN	X	279	62.449	45.856	60.049	0.00	0.00
ATOM	4181	CB	ASN	X	279	62.720	46.484	62.106	0.00	0.00
ATOM	4182	HB2	ASN	X	279	63.071	47.500	61.927	0.00	0.00
ATOM	4183	HB3	ASN	X	279	62.138	46.428	63.026	0.00	0.00
ATOM	4184	CG	ASN	X	279	63.818	45.420	62.313	0.00	0.00
ATOM	4185	OD1	ASN	X	279	64.858	45.481	61.683	0.00	0.00
ATOM	4186	ND2	ASN	X	279	63.512	44.467	63.219	0.00	0.00
ATOM	4187	HD21	ASN	X	279	64.174	43.709	63.302	0.00	0.00
ATOM	4188	HD22	ASN	X	279	62.665	44.482	63.769	0.00	0.00
ATOM	4189	C	ASN	X	279	61.068	44.801	61.313	0.00	0.00
ATOM	4190	O	ASN	X	279	61.403	43.721	60.905	0.00	0.00
ATOM	4191	N	HIE	X	280	60.076	45.042	62.138	0.00	0.00
ATOM	4192	H	HIE	X	280	59.889	45.969	62.492	0.00	0.00
ATOM	4193	CA	HIE	X	280	59.302	44.007	62.696	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.978	43.156	62.784	0.00	0.00
ATOM	4195	CB	HIE	X	280	59.035	44.306	64.218	0.00	0.00
ATOM	4196	HB2	HIE	X	280	58.465	45.235	64.171	0.00	0.00
ATOM	4197	HB3	HIE	X	280	58.524	43.459	64.676	0.00	0.00
ATOM	4198	CG	HIE	X	280	60.258	44.511	65.144	0.00	0.00
ATOM	4199	ND1	HIE	X	280	61.327	43.651	65.342	0.00	0.00
ATOM	4200	CE1	HIE	X	280	62.091	44.278	66.227	0.00	0.00
ATOM	4201	HE1	HIE	X	280	63.008	43.886	66.642	0.00	0.00
ATOM	4202	NE2	HIE	X	280	61.537	45.462	66.671	0.00	0.00
ATOM	4203	HE2	HIE	X	280	61.945	46.160	67.277	0.00	0.00
ATOM	4204	CD2	HIE	X	280	60.442	45.672	65.839	0.00	0.00
ATOM	4205	HD2	HIE	X	280	59.751	46.495	65.949	0.00	0.00
ATOM	4206	C	HIE	X	280	58.047	43.524	61.889	0.00	0.00
ATOM	4207	O	HIE	X	280	57.477	42.461	62.054	0.00	0.00
ATOM	4208	N	GLU	X	281	57.733	44.227	60.803	0.00	0.00
ATOM	4209	H	GLU	X	281	58.258	45.075	60.644	0.00	0.00
ATOM	4210	CA	GLU	X	281	56.679	43.789	59.822	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.768	43.621	60.398	0.00	0.00
ATOM	4212	CB	GLU	X	281	56.255	44.968	58.952	0.00	0.00
ATOM	4213	HB2	GLU	X	281	55.825	45.736	59.595	0.00	0.00
ATOM	4214	HB3	GLU	X	281	57.042	45.474	58.393	0.00	0.00
ATOM	4215	CG	GLU	X	281	55.161	44.450	58.049	0.00	0.00
ATOM	4216	HG2	GLU	X	281	55.578	43.614	57.487	0.00	0.00
ATOM	4217	HG3	GLU	X	281	54.396	43.938	58.633	0.00	0.00
ATOM	4218	CD	GLU	X	281	54.613	45.467	57.045	0.00	0.00
ATOM	4219	OE1	GLU	X	281	54.205	46.631	57.329	0.00	0.00
ATOM	4220	OE2	GLU	X	281	54.416	44.904	55.926	0.00	0.00
ATOM	4221	C	GLU	X	281	57.059	42.483	59.077	0.00	0.00
ATOM	4222	O	GLU	X	281	56.375	41.485	59.098	0.00	0.00
ATOM	4223	N	TRP	X	282	58.277	42.467	58.470	0.00	0.00
ATOM	4224	H	TRP	X	282	58.779	43.340	58.385	0.00	0.00
ATOM	4225	CA	TRP	X	282	58.766	41.250	57.825	0.00	0.00
ATOM	4226	HA	TRP	X	282	58.094	41.016	56.999	0.00	0.00
ATOM	4227	CB	TRP	X	282	60.141	41.555	57.192	0.00	0.00
ATOM	4228	HB2	TRP	X	282	60.286	42.625	57.047	0.00	0.00
ATOM	4229	HB3	TRP	X	282	60.935	41.110	57.792	0.00	0.00
ATOM	4230	CG	TRP	X	282	60.354	40.871	55.902	0.00	0.00
ATOM	4231	CD1	TRP	X	282	61.170	39.885	55.809	0.00	0.00
ATOM	4232	HD1	TRP	X	282	61.697	39.422	56.630	0.00	0.00
ATOM	4233	NE1	TRP	X	282	61.216	39.432	54.532	0.00	0.00
ATOM	4234	HE1	TRP	X	282	61.841	38.695	54.239	0.00	0.00
ATOM	4235	CE2	TRP	X	282	60.329	40.090	53.742	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	60.001	40.020	52.405	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	60.560	39.329	51.792	0.00	0.00
ATOM	4238	CH2	TRP	X	282	58.991	40.824	51.833	0.00	0.00

ATOM	4239	HH2	TRP	X	282	58.810	40.785	50.769	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	58.266	41.734	52.645	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	57.535	42.409	52.225	0.00	0.00
ATOM	4242	CE3	TRP	X	282	58.598	41.787	53.983	0.00	0.00
ATOM	4243	HE3	TRP	X	282	58.171	42.594	54.560	0.00	0.00
ATOM	4244	CD2	TRP	X	282	59.699	41.076	54.597	0.00	0.00
ATOM	4245	C	TRP	X	282	58.782	40.066	58.750	0.00	0.00
ATOM	4246	O	TRP	X	282	58.626	38.876	58.353	0.00	0.00
ATOM	4247	N	HIE	X	283	59.146	40.323	59.987	0.00	0.00
ATOM	4248	H	HIE	X	283	59.346	41.280	60.240	0.00	0.00
ATOM	4249	CA	HIE	X	283	59.150	39.293	61.060	0.00	0.00
ATOM	4250	HA	HIE	X	283	59.761	38.423	60.818	0.00	0.00
ATOM	4251	CB	HIE	X	283	59.735	39.964	62.332	0.00	0.00
ATOM	4252	HB2	HIE	X	283	60.619	40.495	61.979	0.00	0.00
ATOM	4253	HB3	HIE	X	283	58.884	40.473	62.785	0.00	0.00
ATOM	4254	CG	HIE	X	283	60.280	38.975	63.375	0.00	0.00
ATOM	4255	ND1	HIE	X	283	59.668	37.824	63.821	0.00	0.00
ATOM	4256	CE1	HIE	X	283	60.389	37.319	64.800	0.00	0.00
ATOM	4257	HE1	HIE	X	283	60.187	36.391	65.315	0.00	0.00
ATOM	4258	NE2	HIE	X	283	61.461	38.116	65.021	0.00	0.00
ATOM	4259	HE2	HIE	X	283	62.213	37.881	65.654	0.00	0.00
ATOM	4260	CD2	HIE	X	283	61.385	39.147	64.170	0.00	0.00
ATOM	4261	HD2	HIE	X	283	62.165	39.894	64.133	0.00	0.00
ATOM	4262	C	HIE	X	283	57.724	38.675	61.312	0.00	0.00
ATOM	4263	O	HIE	X	283	57.723	37.542	61.696	0.00	0.00
ATOM	4264	N	VAL	X	284	56.608	39.325	61.017	0.00	0.00
ATOM	4265	H	VAL	X	284	56.645	40.277	60.682	0.00	0.00
ATOM	4266	CA	VAL	X	284	55.305	38.731	61.134	0.00	0.00
ATOM	4267	HA	VAL	X	284	55.391	37.902	61.837	0.00	0.00
ATOM	4268	CB	VAL	X	284	54.294	39.720	61.809	0.00	0.00
ATOM	4269	HB	VAL	X	284	53.397	39.158	62.069	0.00	0.00
ATOM	4270	CG1	VAL	X	284	54.853	40.159	63.105	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.248	39.282	63.618	0.00	0.00
ATOM	4272	HG12	VAL	X	284	55.683	40.832	62.889	0.00	0.00
ATOM	4273	HG13	VAL	X	284	54.139	40.629	63.781	0.00	0.00
ATOM	4274	CG2	VAL	X	284	53.812	40.995	61.032	0.00	0.00
ATOM	4275	HG21	VAL	X	284	53.350	40.660	60.103	0.00	0.00
ATOM	4276	HG22	VAL	X	284	53.005	41.348	61.674	0.00	0.00
ATOM	4277	HG23	VAL	X	284	54.543	41.784	60.853	0.00	0.00
ATOM	4278	C	VAL	X	284	54.754	38.182	59.843	0.00	0.00
ATOM	4279	O	VAL	X	284	53.647	37.745	59.861	0.00	0.00
ATOM	4280	N	LEU	X	285	55.538	38.182	58.741	0.00	0.00
ATOM	4281	H	LEU	X	285	56.472	38.564	58.797	0.00	0.00
ATOM	4282	CA	LEU	X	285	55.160	37.505	57.475	0.00	0.00
ATOM	4283	HA	LEU	X	285	54.120	37.750	57.258	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.101	38.087	56.458	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.960	39.158	56.606	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.127	37.833	56.725	0.00	0.00
ATOM	4287	CG	LEU	X	285	55.818	37.761	55.000	0.00	0.00
ATOM	4288	HG	LEU	X	285	54.756	37.532	54.903	0.00	0.00
ATOM	4289	CD1	LEU	X	285	56.160	38.928	54.019	0.00	0.00
ATOM	4290	HD11	LEU	X	285	55.522	39.723	54.406	0.00	0.00
ATOM	4291	HD12	LEU	X	285	57.221	39.152	54.130	0.00	0.00
ATOM	4292	HD13	LEU	X	285	55.889	38.728	52.982	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.608	36.509	54.555	0.00	0.00
ATOM	4294	HD21	LEU	X	285	56.598	35.629	55.199	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.219	36.183	53.591	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.632	36.780	54.296	0.00	0.00
ATOM	4297	C	LEU	X	285	55.276	36.002	57.691	0.00	0.00
ATOM	4298	O	LEU	X	285	56.336	35.572	58.146	0.00	0.00
ATOM	4299	N	PRO	X	286	54.255	35.159	57.408	0.00	0.00
ATOM	4300	CD	PRO	X	286	52.917	35.528	56.988	0.00	0.00
ATOM	4301	HD2	PRO	X	286	53.094	35.818	55.953	0.00	0.00
ATOM	4302	HD3	PRO	X	286	52.509	36.358	57.565	0.00	0.00
ATOM	4303	CG	PRO	X	286	52.033	34.269	57.133	0.00	0.00
ATOM	4304	HG2	PRO	X	286	51.251	34.351	56.378	0.00	0.00
ATOM	4305	HG3	PRO	X	286	51.438	34.359	58.042	0.00	0.00
ATOM	4306	CB	PRO	X	286	53.086	33.131	57.020	0.00	0.00
ATOM	4307	HB2	PRO	X	286	53.146	32.795	55.985	0.00	0.00
ATOM	4308	HB3	PRO	X	286	52.844	32.213	57.555	0.00	0.00

ATOM	4309	CA	PRO	X	286	54.331	33.674	57.602	0.00	0.00
ATOM	4310	HA	PRO	X	286	54.246	33.586	58.685	0.00	0.00
ATOM	4311	C	PRO	X	286	55.594	32.912	57.096	0.00	0.00
ATOM	4312	O	PRO	X	286	56.144	33.104	55.964	0.00	0.00
ATOM	4313	N	GLN	X	287	56.045	32.040	57.996	0.00	0.00
ATOM	4314	H	GLN	X	287	55.557	32.023	58.880	0.00	0.00
ATOM	4315	CA	GLN	X	287	57.127	31.060	57.663	0.00	0.00
ATOM	4316	HA	GLN	X	287	57.657	31.459	56.798	0.00	0.00
ATOM	4317	CB	GLN	X	287	58.119	30.937	58.782	0.00	0.00
ATOM	4318	HB2	GLN	X	287	57.575	30.834	59.720	0.00	0.00
ATOM	4319	HB3	GLN	X	287	58.750	30.067	58.599	0.00	0.00
ATOM	4320	CG	GLN	X	287	58.953	32.241	58.915	0.00	0.00
ATOM	4321	HG2	GLN	X	287	58.454	33.055	59.441	0.00	0.00
ATOM	4322	HG3	GLN	X	287	59.750	31.979	59.611	0.00	0.00
ATOM	4323	CD	GLN	X	287	59.675	32.780	57.632	0.00	0.00
ATOM	4324	OE1	GLN	X	287	60.726	32.357	57.156	0.00	0.00
ATOM	4325	NE2	GLN	X	287	59.128	33.846	57.083	0.00	0.00
ATOM	4326	HE21	GLN	X	287	59.529	34.011	56.171	0.00	0.00
ATOM	4327	HE22	GLN	X	287	58.200	34.179	57.303	0.00	0.00
ATOM	4328	C	GLN	X	287	56.562	29.659	57.245	0.00	0.00
ATOM	4329	O	GLN	X	287	55.376	29.424	57.300	0.00	0.00
ATOM	4330	N	GLU	X	288	57.406	28.698	56.854	0.00	0.00
ATOM	4331	H	GLU	X	288	58.384	28.948	56.833	0.00	0.00
ATOM	4332	CA	GLU	X	288	57.097	27.305	56.442	0.00	0.00
ATOM	4333	HA	GLU	X	288	57.926	26.634	56.215	0.00	0.00
ATOM	4334	CB	GLU	X	288	56.414	26.657	57.676	0.00	0.00
ATOM	4335	HB2	GLU	X	288	55.480	27.163	57.924	0.00	0.00
ATOM	4336	HB3	GLU	X	288	56.159	25.616	57.479	0.00	0.00
ATOM	4337	CG	GLU	X	288	57.410	26.647	58.875	0.00	0.00
ATOM	4338	HG2	GLU	X	288	58.373	26.159	58.724	0.00	0.00
ATOM	4339	HG3	GLU	X	288	57.675	27.631	59.263	0.00	0.00
ATOM	4340	CD	GLU	X	288	56.799	26.055	60.089	0.00	0.00
ATOM	4341	OE1	GLU	X	288	56.865	24.804	60.244	0.00	0.00
ATOM	4342	OE2	GLU	X	288	56.117	26.736	60.867	0.00	0.00
ATOM	4343	C	GLU	X	288	56.179	27.347	55.213	0.00	0.00
ATOM	4344	O	GLU	X	288	55.222	26.530	55.027	0.00	0.00
ATOM	4345	N	SER	X	289	56.327	28.383	54.314	0.00	0.00
ATOM	4346	H	SER	X	289	57.159	28.950	54.389	0.00	0.00
ATOM	4347	CA	SER	X	289	55.325	28.864	53.399	0.00	0.00
ATOM	4348	HA	SER	X	289	54.918	28.075	52.767	0.00	0.00
ATOM	4349	CB	SER	X	289	54.098	29.368	54.195	0.00	0.00
ATOM	4350	HB2	SER	X	289	53.433	29.749	53.420	0.00	0.00
ATOM	4351	HB3	SER	X	289	53.622	28.504	54.659	0.00	0.00
ATOM	4352	OG	SER	X	289	54.412	30.408	55.122	0.00	0.00
ATOM	4353	HG	SER	X	289	54.992	30.081	55.813	0.00	0.00
ATOM	4354	C	SER	X	289	55.949	29.917	52.491	0.00	0.00
ATOM	4355	O	SER	X	289	56.975	30.520	52.736	0.00	0.00
ATOM	4356	N	VAL	X	290	55.211	30.164	51.380	0.00	0.00
ATOM	4357	H	VAL	X	290	54.398	29.576	51.267	0.00	0.00
ATOM	4358	CA	VAL	X	290	55.540	30.934	50.136	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.225	31.704	50.490	0.00	0.00
ATOM	4360	CB	VAL	X	290	56.245	30.048	49.069	0.00	0.00
ATOM	4361	HB	VAL	X	290	55.511	29.363	48.644	0.00	0.00
ATOM	4362	CG1	VAL	X	290	56.861	30.921	47.967	0.00	0.00
ATOM	4363	HG11	VAL	X	290	57.456	31.676	48.481	0.00	0.00
ATOM	4364	HG12	VAL	X	290	57.397	30.268	47.277	0.00	0.00
ATOM	4365	HG13	VAL	X	290	56.058	31.426	47.431	0.00	0.00
ATOM	4366	CG2	VAL	X	290	57.342	29.251	49.765	0.00	0.00
ATOM	4367	HG21	VAL	X	290	57.878	28.671	49.014	0.00	0.00
ATOM	4368	HG22	VAL	X	290	58.089	29.827	50.310	0.00	0.00
ATOM	4369	HG23	VAL	X	290	56.815	28.591	50.455	0.00	0.00
ATOM	4370	C	VAL	X	290	54.239	31.628	49.645	0.00	0.00
ATOM	4371	O	VAL	X	290	53.203	31.057	49.813	0.00	0.00
ATOM	4372	N	PHE	X	291	54.310	32.832	49.113	0.00	0.00
ATOM	4373	H	PHE	X	291	55.198	33.308	49.190	0.00	0.00
ATOM	4374	CA	PHE	X	291	53.181	33.586	48.537	0.00	0.00
ATOM	4375	HA	PHE	X	291	53.649	34.494	48.158	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.718	32.999	47.202	0.00	0.00
ATOM	4377	HB2	PHE	X	291	53.537	32.379	46.835	0.00	0.00
ATOM	4378	HB3	PHE	X	291	51.830	32.402	47.411	0.00	0.00

ATOM	4379	CG	PHE	X	291	52.317	33.870	45.990	0.00	0.00
ATOM	4380	CD1	PHE	X	291	51.788	35.131	46.111	0.00	0.00
ATOM	4381	HD1	PHE	X	291	51.476	35.513	47.072	0.00	0.00
ATOM	4382	CE1	PHE	X	291	51.288	35.885	45.072	0.00	0.00
ATOM	4383	HE1	PHE	X	291	51.018	36.921	45.213	0.00	0.00
ATOM	4384	CZ	PHE	X	291	51.472	35.463	43.723	0.00	0.00
ATOM	4385	HZ	PHE	X	291	51.153	36.048	42.873	0.00	0.00
ATOM	4386	CE2	PHE	X	291	52.054	34.119	43.631	0.00	0.00
ATOM	4387	HE2	PHE	X	291	52.052	33.671	42.648	0.00	0.00
ATOM	4388	CD2	PHE	X	291	52.504	33.389	44.701	0.00	0.00
ATOM	4389	HD2	PHE	X	291	52.853	32.370	44.621	0.00	0.00
ATOM	4390	C	PHE	X	291	52.116	34.018	49.468	0.00	0.00
ATOM	4391	O	PHE	X	291	50.952	34.363	49.178	0.00	0.00
ATOM	4392	N	ARG	X	292	52.438	34.032	50.750	0.00	0.00
ATOM	4393	H	ARG	X	292	53.323	33.607	50.986	0.00	0.00
ATOM	4394	CA	ARG	X	292	51.799	34.663	51.897	0.00	0.00
ATOM	4395	HA	ARG	X	292	50.763	34.847	51.610	0.00	0.00
ATOM	4396	CB	ARG	X	292	52.003	33.796	53.124	0.00	0.00
ATOM	4397	HB2	ARG	X	292	53.074	33.620	53.225	0.00	0.00
ATOM	4398	HB3	ARG	X	292	51.558	34.292	53.986	0.00	0.00
ATOM	4399	CG	ARG	X	292	51.398	32.307	53.035	0.00	0.00
ATOM	4400	HG2	ARG	X	292	51.708	31.726	52.166	0.00	0.00
ATOM	4401	HG3	ARG	X	292	51.728	31.806	53.945	0.00	0.00
ATOM	4402	CD	ARG	X	292	49.896	32.311	53.149	0.00	0.00
ATOM	4403	HD2	ARG	X	292	49.610	31.306	53.458	0.00	0.00
ATOM	4404	HD3	ARG	X	292	49.630	33.005	53.946	0.00	0.00
ATOM	4405	NE	ARG	X	292	49.160	32.598	51.930	0.00	0.00
ATOM	4406	HE	ARG	X	292	49.547	32.576	50.998	0.00	0.00
ATOM	4407	CZ	ARG	X	292	47.858	32.845	51.905	0.00	0.00
ATOM	4408	NH1	ARG	X	292	47.117	32.893	52.998	0.00	0.00
ATOM	4409	HH11	ARG	X	292	47.421	32.971	53.958	0.00	0.00
ATOM	4410	HH12	ARG	X	292	46.175	33.239	52.889	0.00	0.00
ATOM	4411	NH2	ARG	X	292	47.290	33.067	50.719	0.00	0.00
ATOM	4412	HH21	ARG	X	292	47.834	32.969	49.873	0.00	0.00
ATOM	4413	HH22	ARG	X	292	46.308	33.300	50.700	0.00	0.00
ATOM	4414	C	ARG	X	292	52.516	35.992	52.115	0.00	0.00
ATOM	4415	O	ARG	X	292	53.742	36.051	52.150	0.00	0.00
ATOM	4416	N	PHE	X	293	51.805	37.037	52.370	0.00	0.00
ATOM	4417	H	PHE	X	293	50.830	36.907	52.602	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.334	38.405	52.700	0.00	0.00
ATOM	4419	HA	PHE	X	293	53.417	38.322	52.602	0.00	0.00
ATOM	4420	CB	PHE	X	293	51.844	39.440	51.605	0.00	0.00
ATOM	4421	HB2	PHE	X	293	50.767	39.277	51.582	0.00	0.00
ATOM	4422	HB3	PHE	X	293	52.186	40.464	51.756	0.00	0.00
ATOM	4423	CG	PHE	X	293	52.215	39.150	50.136	0.00	0.00
ATOM	4424	CD1	PHE	X	293	53.367	38.356	49.798	0.00	0.00
ATOM	4425	HD1	PHE	X	293	54.047	37.983	50.549	0.00	0.00
ATOM	4426	CE1	PHE	X	293	53.605	37.950	48.520	0.00	0.00
ATOM	4427	HE1	PHE	X	293	54.477	37.330	48.372	0.00	0.00
ATOM	4428	CZ	PHE	X	293	52.821	38.475	47.452	0.00	0.00
ATOM	4429	HZ	PHE	X	293	53.067	38.136	46.457	0.00	0.00
ATOM	4430	CE2	PHE	X	293	51.846	39.466	47.757	0.00	0.00
ATOM	4431	HE2	PHE	X	293	51.343	40.034	46.988	0.00	0.00
ATOM	4432	CD2	PHE	X	293	51.507	39.703	49.095	0.00	0.00
ATOM	4433	HD2	PHE	X	293	50.667	40.328	49.363	0.00	0.00
ATOM	4434	C	PHE	X	293	52.301	38.860	54.128	0.00	0.00
ATOM	4435	O	PHE	X	293	52.062	38.113	55.053	0.00	0.00
ATOM	4436	N	SER	X	294	52.796	40.052	54.414	0.00	0.00
ATOM	4437	H	SER	X	294	53.042	40.671	53.655	0.00	0.00
ATOM	4438	CA	SER	X	294	52.615	40.739	55.689	0.00	0.00
ATOM	4439	HA	SER	X	294	52.752	39.977	56.457	0.00	0.00
ATOM	4440	CB	SER	X	294	53.726	41.869	55.915	0.00	0.00
ATOM	4441	HB2	SER	X	294	53.373	42.377	56.813	0.00	0.00
ATOM	4442	HB3	SER	X	294	54.701	41.388	55.987	0.00	0.00
ATOM	4443	OG	SER	X	294	53.664	42.726	54.730	0.00	0.00
ATOM	4444	HG	SER	X	294	54.060	43.547	55.030	0.00	0.00
ATOM	4445	C	SER	X	294	51.175	41.238	55.899	0.00	0.00
ATOM	4446	O	SER	X	294	50.302	40.605	56.595	0.00	0.00
ATOM	4447	N	PHE	X	295	50.881	42.375	55.295	0.00	0.00
ATOM	4448	H	PHE	X	295	51.634	42.686	54.698	0.00	0.00

ATOM	4449	CA	PHE	X	295	49.636	43.149	55.295	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.966	42.474	55.827	0.00	0.00
ATOM	4451	CB	PHE	X	295	49.649	44.396	56.209	0.00	0.00
ATOM	4452	HB2	PHE	X	295	50.480	44.965	55.791	0.00	0.00
ATOM	4453	HB3	PHE	X	295	48.717	44.933	56.034	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.880	44.063	57.691	0.00	0.00
ATOM	4455	CD1	PHE	X	295	48.880	43.565	58.528	0.00	0.00
ATOM	4456	HD1	PHE	X	295	47.999	43.172	58.043	0.00	0.00
ATOM	4457	CE1	PHE	X	295	49.144	43.343	59.950	0.00	0.00
ATOM	4458	HE1	PHE	X	295	48.387	42.922	60.595	0.00	0.00
ATOM	4459	CZ	PHE	X	295	50.379	43.587	60.443	0.00	0.00
ATOM	4460	HZ	PHE	X	295	50.496	43.586	61.517	0.00	0.00
ATOM	4461	CE2	PHE	X	295	51.361	44.088	59.649	0.00	0.00
ATOM	4462	HE2	PHE	X	295	52.293	44.286	60.157	0.00	0.00
ATOM	4463	CD2	PHE	X	295	51.152	44.280	58.275	0.00	0.00
ATOM	4464	HD2	PHE	X	295	51.975	44.608	57.657	0.00	0.00
ATOM	4465	C	PHE	X	295	48.996	43.366	53.948	0.00	0.00
ATOM	4466	O	PHE	X	295	49.710	43.608	53.032	0.00	0.00
ATOM	4467	N	VAL	X	296	47.695	43.072	53.833	0.00	0.00
ATOM	4468	H	VAL	X	296	47.265	43.120	54.745	0.00	0.00
ATOM	4469	CA	VAL	X	296	46.956	42.948	52.564	0.00	0.00
ATOM	4470	HA	VAL	X	296	47.347	43.642	51.821	0.00	0.00
ATOM	4471	CB	VAL	X	296	47.072	41.556	51.892	0.00	0.00
ATOM	4472	HB	VAL	X	296	46.543	41.517	50.940	0.00	0.00
ATOM	4473	CG1	VAL	X	296	48.467	41.025	51.531	0.00	0.00
ATOM	4474	HG11	VAL	X	296	49.074	41.851	51.161	0.00	0.00
ATOM	4475	HG12	VAL	X	296	48.942	40.607	52.419	0.00	0.00
ATOM	4476	HG13	VAL	X	296	48.459	40.185	50.836	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.297	40.468	52.700	0.00	0.00
ATOM	4478	HG21	VAL	X	296	45.329	40.883	52.981	0.00	0.00
ATOM	4479	HG22	VAL	X	296	46.187	39.580	52.079	0.00	0.00
ATOM	4480	HG23	VAL	X	296	46.821	40.213	53.622	0.00	0.00
ATOM	4481	C	VAL	X	296	45.494	43.486	52.826	0.00	0.00
ATOM	4482	O	VAL	X	296	45.314	43.873	53.969	0.00	0.00
ATOM	4483	N	PRO	X	297	44.530	43.482	51.877	0.00	0.00
ATOM	4484	CD	PRO	X	297	44.815	43.679	50.440	0.00	0.00
ATOM	4485	HD2	PRO	X	297	45.113	42.722	50.011	0.00	0.00
ATOM	4486	HD3	PRO	X	297	45.572	44.457	50.345	0.00	0.00
ATOM	4487	CG	PRO	X	297	43.497	44.165	49.841	0.00	0.00
ATOM	4488	HG2	PRO	X	297	43.366	43.722	48.854	0.00	0.00
ATOM	4489	HG3	PRO	X	297	43.429	45.253	49.842	0.00	0.00
ATOM	4490	CB	PRO	X	297	42.428	43.583	50.781	0.00	0.00
ATOM	4491	HB2	PRO	X	297	42.201	42.519	50.722	0.00	0.00
ATOM	4492	HB3	PRO	X	297	41.526	44.192	50.723	0.00	0.00
ATOM	4493	CA	PRO	X	297	43.088	43.778	52.130	0.00	0.00
ATOM	4494	HA	PRO	X	297	43.055	44.815	52.465	0.00	0.00
ATOM	4495	C	PRO	X	297	42.404	42.885	53.110	0.00	0.00
ATOM	4496	O	PRO	X	297	42.132	41.689	52.805	0.00	0.00
ATOM	4497	N	VAL	X	298	42.135	43.454	54.257	0.00	0.00
ATOM	4498	H	VAL	X	298	42.197	44.461	54.287	0.00	0.00
ATOM	4499	CA	VAL	X	298	41.475	42.794	55.389	0.00	0.00
ATOM	4500	HA	VAL	X	298	41.716	41.733	55.446	0.00	0.00
ATOM	4501	CB	VAL	X	298	41.838	43.512	56.809	0.00	0.00
ATOM	4502	HB	VAL	X	298	41.375	44.498	56.762	0.00	0.00
ATOM	4503	CG1	VAL	X	298	41.145	42.761	57.947	0.00	0.00
ATOM	4504	HG11	VAL	X	298	40.080	42.621	57.762	0.00	0.00
ATOM	4505	HG12	VAL	X	298	41.640	41.790	57.938	0.00	0.00
ATOM	4506	HG13	VAL	X	298	41.334	43.222	58.916	0.00	0.00
ATOM	4507	CG2	VAL	X	298	43.363	43.513	57.117	0.00	0.00
ATOM	4508	HG21	VAL	X	298	44.023	43.751	56.283	0.00	0.00
ATOM	4509	HG22	VAL	X	298	43.561	44.160	57.971	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.770	42.572	57.490	0.00	0.00
ATOM	4511	C	VAL	X	298	39.934	42.764	55.143	0.00	0.00
ATOM	4512	O	VAL	X	298	39.324	43.796	54.819	0.00	0.00
ATOM	4513	N	VAL	X	299	39.271	41.643	55.351	0.00	0.00
ATOM	4514	H	VAL	X	299	39.741	40.831	55.724	0.00	0.00
ATOM	4515	CA	VAL	X	299	37.878	41.552	55.575	0.00	0.00
ATOM	4516	HA	VAL	X	299	37.443	42.074	54.723	0.00	0.00
ATOM	4517	CB	VAL	X	299	37.350	40.070	55.607	0.00	0.00
ATOM	4518	HB	VAL	X	299	37.937	39.564	56.375	0.00	0.00

ATOM	4519	CG1	VAL	X	299	35.879	39.879	55.980	0.00	0.00
ATOM	4520	HG11	VAL	X	299	35.238	40.582	55.447	0.00	0.00
ATOM	4521	HG12	VAL	X	299	35.582	38.844	55.810	0.00	0.00
ATOM	4522	HG13	VAL	X	299	35.668	40.057	57.034	0.00	0.00
ATOM	4523	CG2	VAL	X	299	37.764	39.220	54.431	0.00	0.00
ATOM	4524	HG21	VAL	X	299	37.648	39.684	53.451	0.00	0.00
ATOM	4525	HG22	VAL	X	299	38.844	39.164	54.568	0.00	0.00
ATOM	4526	HG23	VAL	X	299	37.417	38.190	54.356	0.00	0.00
ATOM	4527	C	VAL	X	299	37.475	42.283	56.883	0.00	0.00
ATOM	4528	O	VAL	X	299	37.548	41.582	57.942	0.00	0.00
ATOM	4529	N	ASP	X	300	37.082	43.509	56.808	0.00	0.00
ATOM	4530	H	ASP	X	300	37.013	43.916	55.886	0.00	0.00
ATOM	4531	CA	ASP	X	300	36.690	44.374	57.890	0.00	0.00
ATOM	4532	HA	ASP	X	300	37.174	44.000	58.792	0.00	0.00
ATOM	4533	CB	ASP	X	300	37.136	45.730	57.597	0.00	0.00
ATOM	4534	HB2	ASP	X	300	36.787	46.304	58.455	0.00	0.00
ATOM	4535	HB3	ASP	X	300	38.225	45.687	57.566	0.00	0.00
ATOM	4536	CG	ASP	X	300	36.660	46.395	56.288	0.00	0.00
ATOM	4537	OD1	ASP	X	300	37.026	47.566	56.090	0.00	0.00
ATOM	4538	OD2	ASP	X	300	35.990	45.768	55.452	0.00	0.00
ATOM	4539	C	ASP	X	300	35.150	44.319	58.006	0.00	0.00
ATOM	4540	O	ASP	X	300	34.655	44.825	59.027	0.00	0.00
ATOM	4541	N	GLY	X	301	34.385	43.627	57.130	0.00	0.00
ATOM	4542	H	GLY	X	301	34.840	43.203	56.334	0.00	0.00
ATOM	4543	CA	GLY	X	301	32.885	43.683	57.116	0.00	0.00
ATOM	4544	HA2	GLY	X	301	32.541	42.786	56.576	0.00	0.00
ATOM	4545	HA3	GLY	X	301	32.538	43.592	58.185	0.00	0.00
ATOM	4546	C	GLY	X	301	32.259	44.943	56.487	0.00	0.00
ATOM	4547	O	GLY	X	301	31.040	45.151	56.600	0.00	0.00
ATOM	4548	N	ASP	X	302	33.112	45.814	55.890	0.00	0.00
ATOM	4549	H	ASP	X	302	34.065	45.514	55.741	0.00	0.00
ATOM	4550	CA	ASP	X	302	32.735	47.128	55.463	0.00	0.00
ATOM	4551	HA	ASP	X	302	31.663	47.160	55.269	0.00	0.00
ATOM	4552	CB	ASP	X	302	32.993	48.126	56.580	0.00	0.00
ATOM	4553	HB2	ASP	X	302	32.458	47.814	57.478	0.00	0.00
ATOM	4554	HB3	ASP	X	302	34.074	48.041	56.691	0.00	0.00
ATOM	4555	CG	ASP	X	302	32.615	49.544	56.115	0.00	0.00
ATOM	4556	OD1	ASP	X	302	31.399	49.755	56.055	0.00	0.00
ATOM	4557	OD2	ASP	X	302	33.509	50.453	55.917	0.00	0.00
ATOM	4558	C	ASP	X	302	33.295	47.678	54.097	0.00	0.00
ATOM	4559	O	ASP	X	302	32.501	48.000	53.227	0.00	0.00
ATOM	4560	N	PHE	X	303	34.612	47.677	53.899	0.00	0.00
ATOM	4561	H	PHE	X	303	35.293	47.500	54.624	0.00	0.00
ATOM	4562	CA	PHE	X	303	35.202	47.816	52.525	0.00	0.00
ATOM	4563	HA	PHE	X	303	34.585	48.505	51.949	0.00	0.00
ATOM	4564	CB	PHE	X	303	36.647	48.245	52.602	0.00	0.00
ATOM	4565	HB2	PHE	X	303	36.776	48.896	53.466	0.00	0.00
ATOM	4566	HB3	PHE	X	303	37.262	47.371	52.816	0.00	0.00
ATOM	4567	CG	PHE	X	303	37.202	48.953	51.350	0.00	0.00
ATOM	4568	CD1	PHE	X	303	36.989	48.398	50.075	0.00	0.00
ATOM	4569	HD1	PHE	X	303	36.473	47.461	49.924	0.00	0.00
ATOM	4570	CE1	PHE	X	303	37.480	49.056	48.907	0.00	0.00
ATOM	4571	HE1	PHE	X	303	37.427	48.520	47.970	0.00	0.00
ATOM	4572	CZ	PHE	X	303	38.141	50.302	49.057	0.00	0.00
ATOM	4573	HZ	PHE	X	303	38.592	50.670	48.147	0.00	0.00
ATOM	4574	CE2	PHE	X	303	38.210	50.939	50.324	0.00	0.00
ATOM	4575	HE2	PHE	X	303	38.709	51.897	50.319	0.00	0.00
ATOM	4576	CD2	PHE	X	303	37.755	50.273	51.462	0.00	0.00
ATOM	4577	HD2	PHE	X	303	37.654	50.677	52.458	0.00	0.00
ATOM	4578	C	PHE	X	303	35.079	46.422	51.819	0.00	0.00
ATOM	4579	O	PHE	X	303	34.539	46.256	50.701	0.00	0.00
ATOM	4580	N	LEU	X	304	35.486	45.413	52.588	0.00	0.00
ATOM	4581	H	LEU	X	304	35.788	45.629	53.527	0.00	0.00
ATOM	4582	CA	LEU	X	304	35.270	44.012	52.354	0.00	0.00
ATOM	4583	HA	LEU	X	304	35.082	43.905	51.286	0.00	0.00
ATOM	4584	CB	LEU	X	304	36.608	43.309	52.613	0.00	0.00
ATOM	4585	HB2	LEU	X	304	37.064	43.593	53.562	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.473	42.227	52.624	0.00	0.00
ATOM	4587	CG	LEU	X	304	37.646	43.614	51.471	0.00	0.00
ATOM	4588	HG	LEU	X	304	37.100	43.731	50.535	0.00	0.00

ATOM	4589	CD1	LEU	X	304	38.411	45.010	51.673	0.00	0.00
ATOM	4590	HD11	LEU	X	304	39.332	45.018	51.089	0.00	0.00
ATOM	4591	HD12	LEU	X	304	37.899	45.886	51.274	0.00	0.00
ATOM	4592	HD13	LEU	X	304	38.656	45.191	52.720	0.00	0.00
ATOM	4593	CD2	LEU	X	304	38.698	42.474	51.344	0.00	0.00
ATOM	4594	HD21	LEU	X	304	39.311	42.521	52.244	0.00	0.00
ATOM	4595	HD22	LEU	X	304	38.209	41.509	51.210	0.00	0.00
ATOM	4596	HD23	LEU	X	304	39.219	42.718	50.418	0.00	0.00
ATOM	4597	C	LEU	X	304	34.100	43.521	53.203	0.00	0.00
ATOM	4598	O	LEU	X	304	34.300	43.047	54.313	0.00	0.00
ATOM	4599	N	SER	X	305	32.840	43.731	52.689	0.00	0.00
ATOM	4600	H	SER	X	305	32.699	43.941	51.711	0.00	0.00
ATOM	4601	CA	SER	X	305	31.642	43.311	53.353	0.00	0.00
ATOM	4602	HA	SER	X	305	31.580	43.824	54.313	0.00	0.00
ATOM	4603	CB	SER	X	305	30.390	43.779	52.558	0.00	0.00
ATOM	4604	HB2	SER	X	305	30.348	43.309	51.575	0.00	0.00
ATOM	4605	HB3	SER	X	305	29.438	43.557	53.039	0.00	0.00
ATOM	4606	OG	SER	X	305	30.335	45.172	52.294	0.00	0.00
ATOM	4607	HG	SER	X	305	30.831	45.312	51.484	0.00	0.00
ATOM	4608	C	SER	X	305	31.500	41.838	53.717	0.00	0.00
ATOM	4609	O	SER	X	305	30.542	41.406	54.349	0.00	0.00
ATOM	4610	N	ASP	X	306	32.552	41.049	53.410	0.00	0.00
ATOM	4611	H	ASP	X	306	33.305	41.524	52.934	0.00	0.00
ATOM	4612	CA	ASP	X	306	32.858	39.689	53.579	0.00	0.00
ATOM	4613	HA	ASP	X	306	33.206	39.522	54.598	0.00	0.00
ATOM	4614	CB	ASP	X	306	31.696	38.782	53.212	0.00	0.00
ATOM	4615	HB2	ASP	X	306	30.723	39.249	53.363	0.00	0.00
ATOM	4616	HB3	ASP	X	306	31.830	38.333	52.227	0.00	0.00
ATOM	4617	CG	ASP	X	306	31.764	37.510	54.164	0.00	0.00
ATOM	4618	OD1	ASP	X	306	30.965	37.438	55.134	0.00	0.00
ATOM	4619	OD2	ASP	X	306	32.567	36.602	53.873	0.00	0.00
ATOM	4620	C	ASP	X	306	34.115	39.396	52.732	0.00	0.00
ATOM	4621	O	ASP	X	306	34.766	40.343	52.321	0.00	0.00
ATOM	4622	N	THR	X	307	34.488	38.171	52.598	0.00	0.00
ATOM	4623	H	THR	X	307	33.989	37.432	53.073	0.00	0.00
ATOM	4624	CA	THR	X	307	35.650	37.749	51.779	0.00	0.00
ATOM	4625	HA	THR	X	307	36.373	38.543	51.969	0.00	0.00
ATOM	4626	CB	THR	X	307	36.125	36.333	52.194	0.00	0.00
ATOM	4627	HB	THR	X	307	36.180	36.438	53.277	0.00	0.00
ATOM	4628	CG2	THR	X	307	35.157	35.186	51.822	0.00	0.00
ATOM	4629	HG21	THR	X	307	34.883	35.018	50.780	0.00	0.00
ATOM	4630	HG22	THR	X	307	35.637	34.305	52.248	0.00	0.00
ATOM	4631	HG23	THR	X	307	34.263	35.281	52.440	0.00	0.00
ATOM	4632	OG1	THR	X	307	37.309	36.107	51.526	0.00	0.00
ATOM	4633	HG1	THR	X	307	37.821	35.382	51.893	0.00	0.00
ATOM	4634	C	THR	X	307	35.399	37.957	50.247	0.00	0.00
ATOM	4635	O	THR	X	307	34.323	37.592	49.770	0.00	0.00
ATOM	4636	N	PRO	X	308	36.406	38.408	49.469	0.00	0.00
ATOM	4637	CD	PRO	X	308	37.761	38.913	49.869	0.00	0.00
ATOM	4638	HD2	PRO	X	308	38.442	38.077	50.029	0.00	0.00
ATOM	4639	HD3	PRO	X	308	37.621	39.490	50.784	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.292	39.795	48.730	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.380	39.757	48.683	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.904	40.814	48.732	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.611	39.091	47.585	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.088	38.126	47.411	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.537	39.629	46.640	0.00	0.00
ATOM	4646	CA	PRO	X	308	36.245	38.649	48.034	0.00	0.00
ATOM	4647	HA	PRO	X	308	35.637	39.539	47.869	0.00	0.00
ATOM	4648	C	PRO	X	308	35.711	37.437	47.245	0.00	0.00
ATOM	4649	O	PRO	X	308	34.787	37.572	46.403	0.00	0.00
ATOM	4650	N	GLU	X	309	36.182	36.232	47.508	0.00	0.00
ATOM	4651	H	GLU	X	309	37.066	36.138	47.986	0.00	0.00
ATOM	4652	CA	GLU	X	309	35.637	35.011	46.850	0.00	0.00
ATOM	4653	HA	GLU	X	309	35.715	35.126	45.768	0.00	0.00
ATOM	4654	CB	GLU	X	309	36.428	33.686	47.203	0.00	0.00
ATOM	4655	HB2	GLU	X	309	36.099	32.942	46.476	0.00	0.00
ATOM	4656	HB3	GLU	X	309	37.499	33.709	47.002	0.00	0.00
ATOM	4657	CG	GLU	X	309	36.233	33.197	48.662	0.00	0.00
ATOM	4658	HG2	GLU	X	309	36.722	33.922	49.312	0.00	0.00

ATOM	4659	HG3	GLU	X	309	35.208	33.208	49.032	0.00	0.00
ATOM	4660	CD	GLU	X	309	36.786	31.742	48.727	0.00	0.00
ATOM	4661	OE1	GLU	X	309	36.031	30.736	48.626	0.00	0.00
ATOM	4662	OE2	GLU	X	309	38.020	31.690	48.944	0.00	0.00
ATOM	4663	C	GLU	X	309	34.113	34.807	47.122	0.00	0.00
ATOM	4664	O	GLU	X	309	33.533	33.966	46.501	0.00	0.00
ATOM	4665	N	ALA	X	310	33.473	35.582	48.096	0.00	0.00
ATOM	4666	H	ALA	X	310	34.055	36.139	48.705	0.00	0.00
ATOM	4667	CA	ALA	X	310	32.045	35.548	48.326	0.00	0.00
ATOM	4668	HA	ALA	X	310	31.517	34.792	47.745	0.00	0.00
ATOM	4669	CB	ALA	X	310	31.856	35.213	49.786	0.00	0.00
ATOM	4670	HB1	ALA	X	310	30.826	34.959	50.039	0.00	0.00
ATOM	4671	HB2	ALA	X	310	32.362	34.272	50.004	0.00	0.00
ATOM	4672	HB3	ALA	X	310	32.216	35.952	50.502	0.00	0.00
ATOM	4673	C	ALA	X	310	31.290	36.799	47.856	0.00	0.00
ATOM	4674	O	ALA	X	310	30.188	36.716	47.316	0.00	0.00
ATOM	4675	N	LEU	X	311	32.036	37.908	47.957	0.00	0.00
ATOM	4676	H	LEU	X	311	32.901	37.906	48.478	0.00	0.00
ATOM	4677	CA	LEU	X	311	31.599	39.147	47.328	0.00	0.00
ATOM	4678	HA	LEU	X	311	30.603	39.429	47.669	0.00	0.00
ATOM	4679	CB	LEU	X	311	32.588	40.350	47.690	0.00	0.00
ATOM	4680	HB2	LEU	X	311	33.572	40.080	47.306	0.00	0.00
ATOM	4681	HB3	LEU	X	311	32.301	41.208	47.081	0.00	0.00
ATOM	4682	CG	LEU	X	311	32.666	40.575	49.233	0.00	0.00
ATOM	4683	HG	LEU	X	311	33.054	39.732	49.804	0.00	0.00
ATOM	4684	CD1	LEU	X	311	33.580	41.820	49.462	0.00	0.00
ATOM	4685	HD11	LEU	X	311	33.267	42.670	48.855	0.00	0.00
ATOM	4686	HD12	LEU	X	311	33.562	42.021	50.533	0.00	0.00
ATOM	4687	HD13	LEU	X	311	34.567	41.509	49.117	0.00	0.00
ATOM	4688	CD2	LEU	X	311	31.261	40.925	49.673	0.00	0.00
ATOM	4689	HD21	LEU	X	311	30.743	39.967	49.705	0.00	0.00
ATOM	4690	HD22	LEU	X	311	31.331	41.362	50.669	0.00	0.00
ATOM	4691	HD23	LEU	X	311	30.719	41.612	49.023	0.00	0.00
ATOM	4692	C	LEU	X	311	31.393	39.072	45.848	0.00	0.00
ATOM	4693	O	LEU	X	311	30.421	39.546	45.257	0.00	0.00
ATOM	4694	N	ILE	X	312	32.422	38.556	45.236	0.00	0.00
ATOM	4695	H	ILE	X	312	33.265	38.443	45.780	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.437	38.381	43.751	0.00	0.00
ATOM	4697	HA	ILE	X	312	32.104	39.352	43.382	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.759	37.944	43.103	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.547	38.331	43.748	0.00	0.00
ATOM	4700	CG2	ILE	X	312	33.935	36.360	43.178	0.00	0.00
ATOM	4701	HG21	ILE	X	312	33.989	36.020	44.212	0.00	0.00
ATOM	4702	HG22	ILE	X	312	33.194	35.757	42.652	0.00	0.00
ATOM	4703	HG23	ILE	X	312	34.880	36.108	42.698	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.844	38.583	41.711	0.00	0.00
ATOM	4705	HG12	ILE	X	312	33.006	38.301	41.074	0.00	0.00
ATOM	4706	HG13	ILE	X	312	33.788	39.656	41.898	0.00	0.00
ATOM	4707	CD1	ILE	X	312	35.094	38.289	40.873	0.00	0.00
ATOM	4708	HD11	ILE	X	312	35.895	38.183	41.605	0.00	0.00
ATOM	4709	HD12	ILE	X	312	34.944	37.406	40.252	0.00	0.00
ATOM	4710	HD13	ILE	X	312	35.228	39.228	40.335	0.00	0.00
ATOM	4711	C	ILE	X	312	31.255	37.443	43.319	0.00	0.00
ATOM	4712	O	ILE	X	312	30.803	37.594	42.206	0.00	0.00
ATOM	4713	N	ASN	X	313	30.776	36.463	44.134	0.00	0.00
ATOM	4714	H	ASN	X	313	31.190	36.299	45.041	0.00	0.00
ATOM	4715	CA	ASN	X	313	29.604	35.648	43.837	0.00	0.00
ATOM	4716	HA	ASN	X	313	29.655	35.310	42.802	0.00	0.00
ATOM	4717	CB	ASN	X	313	29.612	34.448	44.727	0.00	0.00
ATOM	4718	HB2	ASN	X	313	30.473	33.805	44.541	0.00	0.00
ATOM	4719	HB3	ASN	X	313	29.678	34.768	45.767	0.00	0.00
ATOM	4720	CG	ASN	X	313	28.319	33.641	44.535	0.00	0.00
ATOM	4721	OD1	ASN	X	313	28.202	32.823	43.590	0.00	0.00
ATOM	4722	ND2	ASN	X	313	27.318	33.783	45.463	0.00	0.00
ATOM	4723	HD21	ASN	X	313	26.573	33.107	45.380	0.00	0.00
ATOM	4724	HD22	ASN	X	313	27.461	34.303	46.317	0.00	0.00
ATOM	4725	C	ASN	X	313	28.262	36.372	44.023	0.00	0.00
ATOM	4726	O	ASN	X	313	27.245	36.062	43.338	0.00	0.00
ATOM	4727	N	ALA	X	314	28.271	37.340	44.875	0.00	0.00
ATOM	4728	H	ALA	X	314	29.069	37.470	45.480	0.00	0.00

ATOM	4729	CA	ALA	X	314	27.062	37.975	45.293	0.00	0.00
ATOM	4730	HA	ALA	X	314	26.197	37.351	45.065	0.00	0.00
ATOM	4731	CB	ALA	X	314	27.223	38.237	46.872	0.00	0.00
ATOM	4732	HB1	ALA	X	314	27.341	37.334	47.470	0.00	0.00
ATOM	4733	HB2	ALA	X	314	28.024	38.958	47.041	0.00	0.00
ATOM	4734	HB3	ALA	X	314	26.377	38.833	47.214	0.00	0.00
ATOM	4735	C	ALA	X	314	26.804	39.346	44.542	0.00	0.00
ATOM	4736	O	ALA	X	314	25.672	39.821	44.476	0.00	0.00
ATOM	4737	N	GLY	X	315	27.828	39.936	43.978	0.00	0.00
ATOM	4738	H	GLY	X	315	28.704	39.447	44.093	0.00	0.00
ATOM	4739	CA	GLY	X	315	27.809	41.267	43.382	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.238	41.836	44.038	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.876	41.649	43.433	0.00	0.00
ATOM	4742	C	GLY	X	315	27.118	41.441	41.940	0.00	0.00
ATOM	4743	O	GLY	X	315	27.278	40.608	41.064	0.00	0.00
ATOM	4744	N	ASP	X	316	26.319	42.533	41.789	0.00	0.00
ATOM	4745	H	ASP	X	316	26.634	43.285	42.385	0.00	0.00
ATOM	4746	CA	ASP	X	316	25.684	42.927	40.467	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.770	41.977	39.938	0.00	0.00
ATOM	4748	CB	ASP	X	316	24.136	43.196	40.636	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.785	42.445	41.344	0.00	0.00
ATOM	4750	HB3	ASP	X	316	24.002	44.127	41.188	0.00	0.00
ATOM	4751	CG	ASP	X	316	23.467	43.174	39.302	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.761	42.156	39.113	0.00	0.00
ATOM	4753	OD2	ASP	X	316	23.489	44.259	38.639	0.00	0.00
ATOM	4754	C	ASP	X	316	26.433	43.941	39.607	0.00	0.00
ATOM	4755	O	ASP	X	316	26.832	44.979	40.085	0.00	0.00
ATOM	4756	N	PHE	X	317	26.827	43.598	38.374	0.00	0.00
ATOM	4757	H	PHE	X	317	26.591	42.690	38.001	0.00	0.00
ATOM	4758	CA	PHE	X	317	27.803	44.344	37.546	0.00	0.00
ATOM	4759	HA	PHE	X	317	28.009	45.339	37.940	0.00	0.00
ATOM	4760	CB	PHE	X	317	29.008	43.457	37.477	0.00	0.00
ATOM	4761	HB2	PHE	X	317	28.815	42.553	36.900	0.00	0.00
ATOM	4762	HB3	PHE	X	317	29.823	44.027	37.030	0.00	0.00
ATOM	4763	CG	PHE	X	317	29.585	43.111	38.828	0.00	0.00
ATOM	4764	CD1	PHE	X	317	29.923	44.049	39.811	0.00	0.00
ATOM	4765	HD1	PHE	X	317	29.711	45.082	39.577	0.00	0.00
ATOM	4766	CE1	PHE	X	317	30.500	43.634	41.008	0.00	0.00
ATOM	4767	HE1	PHE	X	317	30.724	44.390	41.747	0.00	0.00
ATOM	4768	CZ	PHE	X	317	30.699	42.259	41.280	0.00	0.00
ATOM	4769	HZ	PHE	X	317	31.253	41.991	42.168	0.00	0.00
ATOM	4770	CE2	PHE	X	317	30.326	41.301	40.324	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.475	40.268	40.601	0.00	0.00
ATOM	4772	CD2	PHE	X	317	29.856	41.698	39.069	0.00	0.00
ATOM	4773	HD2	PHE	X	317	29.725	40.971	38.281	0.00	0.00
ATOM	4774	C	PHE	X	317	27.249	44.798	36.177	0.00	0.00
ATOM	4775	O	PHE	X	317	28.054	45.125	35.280	0.00	0.00
ATOM	4776	N	HIE	X	318	25.925	44.878	36.036	0.00	0.00
ATOM	4777	H	HIE	X	318	25.276	44.571	36.746	0.00	0.00
ATOM	4778	CA	HIE	X	318	25.243	45.294	34.786	0.00	0.00
ATOM	4779	HA	HIE	X	318	25.346	44.421	34.142	0.00	0.00
ATOM	4780	CB	HIE	X	318	23.672	45.504	34.957	0.00	0.00
ATOM	4781	HB2	HIE	X	318	23.316	44.781	35.690	0.00	0.00
ATOM	4782	HB3	HIE	X	318	23.490	46.512	35.331	0.00	0.00
ATOM	4783	CG	HIE	X	318	22.866	45.161	33.774	0.00	0.00
ATOM	4784	ND1	HIE	X	318	22.920	45.837	32.587	0.00	0.00
ATOM	4785	CE1	HIE	X	318	22.089	45.133	31.800	0.00	0.00
ATOM	4786	HE1	HIE	X	318	21.908	45.313	30.750	0.00	0.00
ATOM	4787	NE2	HIE	X	318	21.569	44.014	32.404	0.00	0.00
ATOM	4788	HE2	HIE	X	318	21.030	43.321	31.905	0.00	0.00
ATOM	4789	CD2	HIE	X	318	22.090	44.005	33.672	0.00	0.00
ATOM	4790	HD2	HIE	X	318	21.819	43.278	34.424	0.00	0.00
ATOM	4791	C	HIE	X	318	25.798	46.555	34.191	0.00	0.00
ATOM	4792	O	HIE	X	318	26.031	47.568	34.862	0.00	0.00
ATOM	4793	N	GLY	X	319	26.031	46.527	32.843	0.00	0.00
ATOM	4794	H	GLY	X	319	25.707	45.716	32.336	0.00	0.00
ATOM	4795	CA	GLY	X	319	26.438	47.688	31.980	0.00	0.00
ATOM	4796	HA2	GLY	X	319	26.304	47.376	30.936	0.00	0.00
ATOM	4797	HA3	GLY	X	319	25.784	48.509	32.226	0.00	0.00
ATOM	4798	C	GLY	X	319	27.906	48.165	32.200	0.00	0.00

ATOM	4799	O	GLY	X	319	28.278	49.146	31.518	0.00	0.00
ATOM	4800	N	LEU	X	320	28.761	47.520	33.044	0.00	0.00
ATOM	4801	H	LEU	X	320	28.437	46.752	33.614	0.00	0.00
ATOM	4802	CA	LEU	X	320	30.159	47.862	33.230	0.00	0.00
ATOM	4803	HA	LEU	X	320	30.256	48.948	33.193	0.00	0.00
ATOM	4804	CB	LEU	X	320	30.583	47.416	34.624	0.00	0.00
ATOM	4805	HB2	LEU	X	320	30.306	46.364	34.687	0.00	0.00
ATOM	4806	HB3	LEU	X	320	31.636	47.598	34.836	0.00	0.00
ATOM	4807	CG	LEU	X	320	29.878	48.141	35.787	0.00	0.00
ATOM	4808	HG	LEU	X	320	28.793	48.042	35.796	0.00	0.00
ATOM	4809	CD1	LEU	X	320	30.187	47.527	37.160	0.00	0.00
ATOM	4810	HD11	LEU	X	320	29.904	46.490	37.345	0.00	0.00
ATOM	4811	HD12	LEU	X	320	31.241	47.603	37.430	0.00	0.00
ATOM	4812	HD13	LEU	X	320	29.712	48.085	37.967	0.00	0.00
ATOM	4813	CD2	LEU	X	320	30.173	49.721	35.793	0.00	0.00
ATOM	4814	HD21	LEU	X	320	29.582	50.127	36.614	0.00	0.00
ATOM	4815	HD22	LEU	X	320	31.210	49.928	36.058	0.00	0.00
ATOM	4816	HD23	LEU	X	320	29.843	50.195	34.868	0.00	0.00
ATOM	4817	C	LEU	X	320	31.030	47.311	32.176	0.00	0.00
ATOM	4818	O	LEU	X	320	30.669	46.236	31.599	0.00	0.00
ATOM	4819	N	GLN	X	321	32.186	47.957	31.843	0.00	0.00
ATOM	4820	H	GLN	X	321	32.387	48.710	32.485	0.00	0.00
ATOM	4821	CA	GLN	X	321	33.224	47.539	30.904	0.00	0.00
ATOM	4822	HA	GLN	X	321	32.839	46.643	30.418	0.00	0.00
ATOM	4823	CB	GLN	X	321	33.375	48.622	29.807	0.00	0.00
ATOM	4824	HB2	GLN	X	321	33.746	49.564	30.211	0.00	0.00
ATOM	4825	HB3	GLN	X	321	34.032	48.167	29.065	0.00	0.00
ATOM	4826	CG	GLN	X	321	31.997	48.881	29.097	0.00	0.00
ATOM	4827	HG2	GLN	X	321	31.767	47.916	28.646	0.00	0.00
ATOM	4828	HG3	GLN	X	321	31.274	49.036	29.897	0.00	0.00
ATOM	4829	CD	GLN	X	321	32.095	50.067	28.204	0.00	0.00
ATOM	4830	OE1	GLN	X	321	32.386	51.196	28.598	0.00	0.00
ATOM	4831	NE2	GLN	X	321	32.010	49.932	26.892	0.00	0.00
ATOM	4832	HE21	GLN	X	321	32.088	50.763	26.323	0.00	0.00
ATOM	4833	HE22	GLN	X	321	31.724	49.090	26.412	0.00	0.00
ATOM	4834	C	GLN	X	321	34.522	47.215	31.641	0.00	0.00
ATOM	4835	O	GLN	X	321	35.203	48.087	32.184	0.00	0.00
ATOM	4836	N	VAL	X	322	35.001	45.954	31.495	0.00	0.00
ATOM	4837	H	VAL	X	322	34.541	45.341	30.837	0.00	0.00
ATOM	4838	CA	VAL	X	322	36.036	45.263	32.185	0.00	0.00
ATOM	4839	HA	VAL	X	322	36.522	45.981	32.846	0.00	0.00
ATOM	4840	CB	VAL	X	322	35.430	44.112	33.078	0.00	0.00
ATOM	4841	HB	VAL	X	322	34.969	43.366	32.430	0.00	0.00
ATOM	4842	CG1	VAL	X	322	36.559	43.387	33.821	0.00	0.00
ATOM	4843	HG11	VAL	X	322	37.200	42.803	33.161	0.00	0.00
ATOM	4844	HG12	VAL	X	322	37.157	44.115	34.371	0.00	0.00
ATOM	4845	HG13	VAL	X	322	36.184	42.733	34.609	0.00	0.00
ATOM	4846	CG2	VAL	X	322	34.345	44.560	33.998	0.00	0.00
ATOM	4847	HG21	VAL	X	322	34.185	43.749	34.708	0.00	0.00
ATOM	4848	HG22	VAL	X	322	34.615	45.455	34.558	0.00	0.00
ATOM	4849	HG23	VAL	X	322	33.439	44.737	33.420	0.00	0.00
ATOM	4850	C	VAL	X	322	37.180	44.826	31.218	0.00	0.00
ATOM	4851	O	VAL	X	322	36.959	44.545	30.034	0.00	0.00
ATOM	4852	N	LEU	X	323	38.461	44.824	31.654	0.00	0.00
ATOM	4853	H	LEU	X	323	38.629	45.138	32.600	0.00	0.00
ATOM	4854	CA	LEU	X	323	39.620	44.126	30.997	0.00	0.00
ATOM	4855	HA	LEU	X	323	39.202	43.349	30.357	0.00	0.00
ATOM	4856	CB	LEU	X	323	40.502	45.069	30.216	0.00	0.00
ATOM	4857	HB2	LEU	X	323	39.827	45.727	29.669	0.00	0.00
ATOM	4858	HB3	LEU	X	323	41.256	45.508	30.870	0.00	0.00
ATOM	4859	CG	LEU	X	323	41.369	44.627	29.056	0.00	0.00
ATOM	4860	HG	LEU	X	323	40.728	44.218	28.276	0.00	0.00
ATOM	4861	CD1	LEU	X	323	42.054	45.832	28.449	0.00	0.00
ATOM	4862	HD11	LEU	X	323	41.248	46.479	28.102	0.00	0.00
ATOM	4863	HD12	LEU	X	323	42.817	46.249	29.105	0.00	0.00
ATOM	4864	HD13	LEU	X	323	42.529	45.514	27.521	0.00	0.00
ATOM	4865	CD2	LEU	X	323	42.592	43.686	29.384	0.00	0.00
ATOM	4866	HD21	LEU	X	323	42.831	43.725	30.447	0.00	0.00
ATOM	4867	HD22	LEU	X	323	42.220	42.687	29.156	0.00	0.00
ATOM	4868	HD23	LEU	X	323	43.485	43.938	28.810	0.00	0.00

ATOM	4869	C	LEU	X	323	40.433	43.325	31.965	0.00	0.00
ATOM	4870	O	LEU	X	323	40.670	43.803	33.103	0.00	0.00
ATOM	4871	N	VAL	X	324	40.891	42.110	31.581	0.00	0.00
ATOM	4872	H	VAL	X	324	40.742	41.809	30.628	0.00	0.00
ATOM	4873	CA	VAL	X	324	41.630	41.194	32.379	0.00	0.00
ATOM	4874	HA	VAL	X	324	42.065	41.738	33.217	0.00	0.00
ATOM	4875	CB	VAL	X	324	40.854	40.075	33.046	0.00	0.00
ATOM	4876	HB	VAL	X	324	41.558	39.722	33.800	0.00	0.00
ATOM	4877	CG1	VAL	X	324	39.491	40.576	33.698	0.00	0.00
ATOM	4878	HG11	VAL	X	324	38.790	41.055	33.015	0.00	0.00
ATOM	4879	HG12	VAL	X	324	39.020	39.785	34.281	0.00	0.00
ATOM	4880	HG13	VAL	X	324	39.709	41.374	34.407	0.00	0.00
ATOM	4881	CG2	VAL	X	324	40.391	38.963	32.027	0.00	0.00
ATOM	4882	HG21	VAL	X	324	39.760	39.366	31.234	0.00	0.00
ATOM	4883	HG22	VAL	X	324	41.257	38.439	31.622	0.00	0.00
ATOM	4884	HG23	VAL	X	324	39.805	38.278	32.639	0.00	0.00
ATOM	4885	C	VAL	X	324	42.826	40.604	31.625	0.00	0.00
ATOM	4886	O	VAL	X	324	42.830	40.315	30.446	0.00	0.00
ATOM	4887	N	GLY	X	325	43.916	40.427	32.379	0.00	0.00
ATOM	4888	H	GLY	X	325	43.847	40.856	33.291	0.00	0.00
ATOM	4889	CA	GLY	X	325	45.202	40.047	31.820	0.00	0.00
ATOM	4890	HA2	GLY	X	325	45.065	39.592	30.837	0.00	0.00
ATOM	4891	HA3	GLY	X	325	45.784	40.892	31.779	0.00	0.00
ATOM	4892	C	GLY	X	325	46.094	39.171	32.700	0.00	0.00
ATOM	4893	O	GLY	X	325	46.037	39.265	33.929	0.00	0.00
ATOM	4894	N	VAL	X	326	46.971	38.381	32.073	0.00	0.00
ATOM	4895	H	VAL	X	326	46.877	38.380	31.068	0.00	0.00
ATOM	4896	CA	VAL	X	326	48.093	37.693	32.717	0.00	0.00
ATOM	4897	HA	VAL	X	326	48.392	38.280	33.586	0.00	0.00
ATOM	4898	CB	VAL	X	326	47.788	36.286	33.236	0.00	0.00
ATOM	4899	HB	VAL	X	326	48.718	35.756	33.445	0.00	0.00
ATOM	4900	CG1	VAL	X	326	47.053	36.354	34.532	0.00	0.00
ATOM	4901	HG11	VAL	X	326	47.541	37.066	35.198	0.00	0.00
ATOM	4902	HG12	VAL	X	326	46.015	36.608	34.322	0.00	0.00
ATOM	4903	HG13	VAL	X	326	47.036	35.354	34.967	0.00	0.00
ATOM	4904	CG2	VAL	X	326	47.167	35.401	32.187	0.00	0.00
ATOM	4905	HG21	VAL	X	326	47.194	34.415	32.651	0.00	0.00
ATOM	4906	HG22	VAL	X	326	46.137	35.698	31.993	0.00	0.00
ATOM	4907	HG23	VAL	X	326	47.767	35.479	31.280	0.00	0.00
ATOM	4908	C	VAL	X	326	49.175	37.560	31.633	0.00	0.00
ATOM	4909	O	VAL	X	326	48.822	37.707	30.472	0.00	0.00
ATOM	4910	N	VAL	X	327	50.421	37.318	32.155	0.00	0.00
ATOM	4911	H	VAL	X	327	50.406	37.155	33.152	0.00	0.00
ATOM	4912	CA	VAL	X	327	51.508	37.006	31.249	0.00	0.00
ATOM	4913	HA	VAL	X	327	51.106	37.054	30.236	0.00	0.00
ATOM	4914	CB	VAL	X	327	52.776	37.980	31.426	0.00	0.00
ATOM	4915	HB	VAL	X	327	53.276	37.654	32.338	0.00	0.00
ATOM	4916	CG1	VAL	X	327	53.687	37.918	30.259	0.00	0.00
ATOM	4917	HG11	VAL	X	327	54.340	38.791	30.249	0.00	0.00
ATOM	4918	HG12	VAL	X	327	54.140	36.929	30.330	0.00	0.00
ATOM	4919	HG13	VAL	X	327	53.169	37.771	29.311	0.00	0.00
ATOM	4920	CG2	VAL	X	327	52.336	39.422	31.616	0.00	0.00
ATOM	4921	HG21	VAL	X	327	53.012	39.893	32.330	0.00	0.00
ATOM	4922	HG22	VAL	X	327	52.385	40.071	30.742	0.00	0.00
ATOM	4923	HG23	VAL	X	327	51.329	39.517	32.024	0.00	0.00
ATOM	4924	C	VAL	X	327	51.945	35.566	31.426	0.00	0.00
ATOM	4925	O	VAL	X	327	51.986	35.115	32.529	0.00	0.00
ATOM	4926	N	LYS	X	328	51.955	34.873	30.305	0.00	0.00
ATOM	4927	H	LYS	X	328	52.104	35.369	29.437	0.00	0.00
ATOM	4928	CA	LYS	X	328	51.773	33.348	30.284	0.00	0.00
ATOM	4929	HA	LYS	X	328	50.702	33.166	30.380	0.00	0.00
ATOM	4930	CB	LYS	X	328	52.106	32.904	28.850	0.00	0.00
ATOM	4931	HB2	LYS	X	328	51.458	33.449	28.163	0.00	0.00
ATOM	4932	HB3	LYS	X	328	53.110	33.287	28.670	0.00	0.00
ATOM	4933	CG	LYS	X	328	52.013	31.359	28.655	0.00	0.00
ATOM	4934	HG2	LYS	X	328	52.793	30.818	29.192	0.00	0.00
ATOM	4935	HG3	LYS	X	328	51.024	30.977	28.910	0.00	0.00
ATOM	4936	CD	LYS	X	328	52.348	30.963	27.282	0.00	0.00
ATOM	4937	HD2	LYS	X	328	53.323	31.343	26.978	0.00	0.00
ATOM	4938	HD3	LYS	X	328	52.366	29.873	27.274	0.00	0.00

ATOM	4939	CE	LYS	X	328	51.298	31.406	26.215	0.00	0.00
ATOM	4940	HE2	LYS	X	328	50.263	31.136	26.424	0.00	0.00
ATOM	4941	HE3	LYS	X	328	51.460	32.481	26.136	0.00	0.00
ATOM	4942	NZ	LYS	X	328	51.714	30.744	24.950	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	52.658	30.937	24.646	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	51.568	29.745	24.951	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	51.107	31.170	24.264	0.00	0.00
ATOM	4946	C	LYS	X	328	52.392	32.481	31.406	0.00	0.00
ATOM	4947	O	LYS	X	328	51.755	31.486	31.770	0.00	0.00
ATOM	4948	N	ASP	X	329	53.487	32.924	31.993	0.00	0.00
ATOM	4949	H	ASP	X	329	53.795	33.815	31.629	0.00	0.00
ATOM	4950	CA	ASP	X	329	54.318	32.258	33.071	0.00	0.00
ATOM	4951	HA	ASP	X	329	53.748	31.363	33.318	0.00	0.00
ATOM	4952	CB	ASP	X	329	55.698	31.791	32.522	0.00	0.00
ATOM	4953	HB2	ASP	X	329	56.403	32.619	32.582	0.00	0.00
ATOM	4954	HB3	ASP	X	329	56.091	31.023	33.188	0.00	0.00
ATOM	4955	CG	ASP	X	329	55.503	31.232	31.079	0.00	0.00
ATOM	4956	OD1	ASP	X	329	55.211	30.022	30.857	0.00	0.00
ATOM	4957	OD2	ASP	X	329	55.889	31.913	30.115	0.00	0.00
ATOM	4958	C	ASP	X	329	54.387	32.978	34.534	0.00	0.00
ATOM	4959	O	ASP	X	329	55.315	32.702	35.247	0.00	0.00
ATOM	4960	N	GLU	X	330	53.490	33.912	34.816	0.00	0.00
ATOM	4961	H	GLU	X	330	52.728	34.102	34.181	0.00	0.00
ATOM	4962	CA	GLU	X	330	53.242	34.471	36.221	0.00	0.00
ATOM	4963	HA	GLU	X	330	53.537	35.513	36.098	0.00	0.00
ATOM	4964	CB	GLU	X	330	51.805	34.391	36.654	0.00	0.00
ATOM	4965	HB2	GLU	X	330	51.455	33.359	36.653	0.00	0.00
ATOM	4966	HB3	GLU	X	330	51.642	34.777	37.660	0.00	0.00
ATOM	4967	CG	GLU	X	330	50.773	35.249	35.836	0.00	0.00
ATOM	4968	HG2	GLU	X	330	50.696	34.916	34.801	0.00	0.00
ATOM	4969	HG3	GLU	X	330	49.814	35.148	36.344	0.00	0.00
ATOM	4970	CD	GLU	X	330	51.161	36.725	35.796	0.00	0.00
ATOM	4971	OE1	GLU	X	330	51.681	37.296	36.810	0.00	0.00
ATOM	4972	OE2	GLU	X	330	50.956	37.434	34.783	0.00	0.00
ATOM	4973	C	GLU	X	330	54.139	33.920	37.377	0.00	0.00
ATOM	4974	O	GLU	X	330	54.978	34.526	37.975	0.00	0.00
ATOM	4975	N	GLY	X	331	53.955	32.622	37.666	0.00	0.00
ATOM	4976	H	GLY	X	331	53.338	32.093	37.067	0.00	0.00
ATOM	4977	CA	GLY	X	331	54.504	31.887	38.891	0.00	0.00
ATOM	4978	HA2	GLY	X	331	54.398	32.539	39.843	0.00	0.00
ATOM	4979	HA3	GLY	X	331	54.029	30.905	39.108	0.00	0.00
ATOM	4980	C	GLY	X	331	55.936	31.629	38.905	0.00	0.00
ATOM	4981	O	GLY	X	331	56.512	31.332	39.989	0.00	0.00
ATOM	4982	N	SER	X	332	56.529	31.703	37.725	0.00	0.00
ATOM	4983	H	SER	X	332	55.953	31.922	36.925	0.00	0.00
ATOM	4984	CA	SER	X	332	57.899	31.398	37.669	0.00	0.00
ATOM	4985	HA	SER	X	332	58.058	30.406	38.093	0.00	0.00
ATOM	4986	CB	SER	X	332	58.169	31.300	36.109	0.00	0.00
ATOM	4987	HB2	SER	X	332	58.106	32.292	35.660	0.00	0.00
ATOM	4988	HB3	SER	X	332	59.169	30.890	35.969	0.00	0.00
ATOM	4989	OG	SER	X	332	57.314	30.500	35.362	0.00	0.00
ATOM	4990	HG	SER	X	332	56.478	30.963	35.273	0.00	0.00
ATOM	4991	C	SER	X	332	58.706	32.534	38.293	0.00	0.00
ATOM	4992	O	SER	X	332	59.738	32.236	38.944	0.00	0.00
ATOM	4993	N	TYR	X	333	58.270	33.775	38.279	0.00	0.00
ATOM	4994	H	TYR	X	333	57.413	33.944	37.773	0.00	0.00
ATOM	4995	CA	TYR	X	333	58.812	34.938	39.000	0.00	0.00
ATOM	4996	HA	TYR	X	333	59.901	34.985	38.976	0.00	0.00
ATOM	4997	CB	TYR	X	333	58.145	36.233	38.516	0.00	0.00
ATOM	4998	HB2	TYR	X	333	58.473	36.394	37.489	0.00	0.00
ATOM	4999	HB3	TYR	X	333	57.058	36.160	38.557	0.00	0.00
ATOM	5000	CG	TYR	X	333	58.608	37.452	39.289	0.00	0.00
ATOM	5001	CD1	TYR	X	333	57.940	37.742	40.460	0.00	0.00
ATOM	5002	HD1	TYR	X	333	57.028	37.199	40.660	0.00	0.00
ATOM	5003	CE1	TYR	X	333	58.356	38.909	41.225	0.00	0.00
ATOM	5004	HE1	TYR	X	333	57.779	39.257	42.069	0.00	0.00
ATOM	5005	CZ	TYR	X	333	59.430	39.733	40.769	0.00	0.00
ATOM	5006	OH	TYR	X	333	59.801	40.872	41.427	0.00	0.00
ATOM	5007	HH	TYR	X	333	59.084	41.118	42.016	0.00	0.00
ATOM	5008	CE2	TYR	X	333	60.148	39.360	39.615	0.00	0.00

ATOM	5009	HE2	TYR	X	333	61.080	39.818	39.319	0.00	0.00
ATOM	5010	CD2	TYR	X	333	59.789	38.154	38.938	0.00	0.00
ATOM	5011	HD2	TYR	X	333	60.328	37.763	38.088	0.00	0.00
ATOM	5012	C	TYR	X	333	58.662	34.719	40.467	0.00	0.00
ATOM	5013	O	TYR	X	333	59.618	34.875	41.177	0.00	0.00
ATOM	5014	N	PHE	X	334	57.438	34.508	41.005	0.00	0.00
ATOM	5015	H	PHE	X	334	56.698	34.383	40.329	0.00	0.00
ATOM	5016	CA	PHE	X	334	57.143	34.185	42.395	0.00	0.00
ATOM	5017	HA	PHE	X	334	57.420	35.008	43.054	0.00	0.00
ATOM	5018	CB	PHE	X	334	55.665	34.081	42.618	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.148	33.428	41.914	0.00	0.00
ATOM	5020	HB3	PHE	X	334	55.470	33.670	43.608	0.00	0.00
ATOM	5021	CG	PHE	X	334	54.942	35.363	42.435	0.00	0.00
ATOM	5022	CD1	PHE	X	334	54.333	35.597	41.225	0.00	0.00
ATOM	5023	HD1	PHE	X	334	54.409	34.967	40.351	0.00	0.00
ATOM	5024	CE1	PHE	X	334	53.664	36.804	41.057	0.00	0.00
ATOM	5025	HE1	PHE	X	334	53.114	37.019	40.153	0.00	0.00
ATOM	5026	CZ	PHE	X	334	53.564	37.697	42.126	0.00	0.00
ATOM	5027	HZ	PHE	X	334	52.905	38.527	41.919	0.00	0.00
ATOM	5028	CE2	PHE	X	334	54.026	37.402	43.404	0.00	0.00
ATOM	5029	HE2	PHE	X	334	53.765	38.029	44.244	0.00	0.00
ATOM	5030	CD2	PHE	X	334	54.766	36.217	43.627	0.00	0.00
ATOM	5031	HD2	PHE	X	334	55.139	35.911	44.593	0.00	0.00
ATOM	5032	C	PHE	X	334	57.972	32.998	43.026	0.00	0.00
ATOM	5033	O	PHE	X	334	58.188	32.997	44.229	0.00	0.00
ATOM	5034	N	LEU	X	335	58.422	32.026	42.209	0.00	0.00
ATOM	5035	H	LEU	X	335	57.986	32.012	41.298	0.00	0.00
ATOM	5036	CA	LEU	X	335	59.254	30.934	42.681	0.00	0.00
ATOM	5037	HA	LEU	X	335	58.775	30.535	43.575	0.00	0.00
ATOM	5038	CB	LEU	X	335	59.270	29.800	41.599	0.00	0.00
ATOM	5039	HB2	LEU	X	335	58.257	29.588	41.257	0.00	0.00
ATOM	5040	HB3	LEU	X	335	59.787	30.046	40.672	0.00	0.00
ATOM	5041	CG	LEU	X	335	59.871	28.484	42.141	0.00	0.00
ATOM	5042	HG	LEU	X	335	60.863	28.687	42.543	0.00	0.00
ATOM	5043	CD1	LEU	X	335	59.066	27.897	43.306	0.00	0.00
ATOM	5044	HD11	LEU	X	335	59.180	26.846	43.574	0.00	0.00
ATOM	5045	HD12	LEU	X	335	59.387	28.493	44.160	0.00	0.00
ATOM	5046	HD13	LEU	X	335	58.034	28.064	42.996	0.00	0.00
ATOM	5047	CD2	LEU	X	335	59.987	27.385	41.062	0.00	0.00
ATOM	5048	HD21	LEU	X	335	58.975	27.160	40.724	0.00	0.00
ATOM	5049	HD22	LEU	X	335	60.707	27.559	40.262	0.00	0.00
ATOM	5050	HD23	LEU	X	335	60.263	26.456	41.562	0.00	0.00
ATOM	5051	C	LEU	X	335	60.625	31.434	43.075	0.00	0.00
ATOM	5052	O	LEU	X	335	60.921	31.357	44.271	0.00	0.00
ATOM	5053	N	VAL	X	336	61.338	32.122	42.162	0.00	0.00
ATOM	5054	H	VAL	X	336	60.918	32.267	41.255	0.00	0.00
ATOM	5055	CA	VAL	X	336	62.760	32.524	42.363	0.00	0.00
ATOM	5056	HA	VAL	X	336	63.180	31.618	42.799	0.00	0.00
ATOM	5057	CB	VAL	X	336	63.674	32.569	41.065	0.00	0.00
ATOM	5058	HB	VAL	X	336	64.721	32.757	41.307	0.00	0.00
ATOM	5059	CG1	VAL	X	336	63.686	31.192	40.322	0.00	0.00
ATOM	5060	HG11	VAL	X	336	64.032	30.521	41.109	0.00	0.00
ATOM	5061	HG12	VAL	X	336	62.699	30.832	40.032	0.00	0.00
ATOM	5062	HG13	VAL	X	336	64.360	31.288	39.471	0.00	0.00
ATOM	5063	CG2	VAL	X	336	63.252	33.689	40.190	0.00	0.00
ATOM	5064	HG21	VAL	X	336	63.992	33.931	39.427	0.00	0.00
ATOM	5065	HG22	VAL	X	336	62.261	33.471	39.792	0.00	0.00
ATOM	5066	HG23	VAL	X	336	63.212	34.584	40.811	0.00	0.00
ATOM	5067	C	VAL	X	336	63.088	33.699	43.310	0.00	0.00
ATOM	5068	O	VAL	X	336	64.161	33.747	43.807	0.00	0.00
ATOM	5069	N	TYR	X	337	62.144	34.624	43.480	0.00	0.00
ATOM	5070	H	TYR	X	337	61.408	34.625	42.788	0.00	0.00
ATOM	5071	CA	TYR	X	337	62.089	35.684	44.429	0.00	0.00
ATOM	5072	HA	TYR	X	337	63.046	36.155	44.656	0.00	0.00
ATOM	5073	CB	TYR	X	337	61.278	36.742	43.692	0.00	0.00
ATOM	5074	HB2	TYR	X	337	60.524	36.369	42.998	0.00	0.00
ATOM	5075	HB3	TYR	X	337	60.761	37.416	44.374	0.00	0.00
ATOM	5076	CG	TYR	X	337	62.106	37.725	42.903	0.00	0.00
ATOM	5077	CD1	TYR	X	337	62.493	38.980	43.600	0.00	0.00
ATOM	5078	HD1	TYR	X	337	62.347	39.005	44.670	0.00	0.00

ATOM	5079	CE1	TYR	X	337	63.090	40.001	42.831	0.00	0.00
ATOM	5080	HE1	TYR	X	337	63.419	40.928	43.277	0.00	0.00
ATOM	5081	CZ	TYR	X	337	63.418	39.750	41.491	0.00	0.00
ATOM	5082	OH	TYR	X	337	63.992	40.778	40.783	0.00	0.00
ATOM	5083	HH	TYR	X	337	64.444	41.445	41.304	0.00	0.00
ATOM	5084	CE2	TYR	X	337	63.080	38.540	40.798	0.00	0.00
ATOM	5085	HE2	TYR	X	337	63.298	38.460	39.743	0.00	0.00
ATOM	5086	CD2	TYR	X	337	62.397	37.535	41.532	0.00	0.00
ATOM	5087	HD2	TYR	X	337	61.913	36.756	40.962	0.00	0.00
ATOM	5088	C	TYR	X	337	61.516	35.324	45.802	0.00	0.00
ATOM	5089	O	TYR	X	337	61.776	36.056	46.739	0.00	0.00
ATOM	5090	N	GLY	X	338	60.765	34.252	46.021	0.00	0.00
ATOM	5091	H	GLY	X	338	60.633	33.609	45.254	0.00	0.00
ATOM	5092	CA	GLY	X	338	59.850	33.899	47.138	0.00	0.00
ATOM	5093	HA2	GLY	X	338	59.891	34.741	47.834	0.00	0.00
ATOM	5094	HA3	GLY	X	338	58.897	33.616	46.675	0.00	0.00
ATOM	5095	C	GLY	X	338	60.200	32.576	47.941	0.00	0.00
ATOM	5096	O	GLY	X	338	60.252	32.556	49.180	0.00	0.00
ATOM	5097	N	ALA	X	339	60.534	31.466	47.261	0.00	0.00
ATOM	5098	H	ALA	X	339	60.584	31.527	46.254	0.00	0.00
ATOM	5099	CA	ALA	X	339	60.781	30.110	47.828	0.00	0.00
ATOM	5100	HA	ALA	X	339	60.289	30.051	48.799	0.00	0.00
ATOM	5101	CB	ALA	X	339	60.313	28.912	46.840	0.00	0.00
ATOM	5102	HB1	ALA	X	339	60.362	29.322	45.831	0.00	0.00
ATOM	5103	HB2	ALA	X	339	61.056	28.142	47.048	0.00	0.00
ATOM	5104	HB3	ALA	X	339	59.306	28.536	47.023	0.00	0.00
ATOM	5105	C	ALA	X	339	62.350	29.957	48.024	0.00	0.00
ATOM	5106	O	ALA	X	339	63.175	30.268	47.150	0.00	0.00
ATOM	5107	N	PRO	X	340	62.755	29.400	49.232	0.00	0.00
ATOM	5108	CD	PRO	X	340	61.809	28.992	50.341	0.00	0.00
ATOM	5109	HD2	PRO	X	340	61.106	28.186	50.130	0.00	0.00
ATOM	5110	HD3	PRO	X	340	61.206	29.851	50.634	0.00	0.00
ATOM	5111	CG	PRO	X	340	62.756	28.699	51.512	0.00	0.00
ATOM	5112	HG2	PRO	X	340	62.520	27.730	51.952	0.00	0.00
ATOM	5113	HG3	PRO	X	340	62.502	29.518	52.186	0.00	0.00
ATOM	5114	CB	PRO	X	340	64.130	28.618	51.008	0.00	0.00
ATOM	5115	HB2	PRO	X	340	64.476	27.585	51.034	0.00	0.00
ATOM	5116	HB3	PRO	X	340	64.842	29.263	51.524	0.00	0.00
ATOM	5117	CA	PRO	X	340	64.102	29.067	49.493	0.00	0.00
ATOM	5118	HA	PRO	X	340	64.681	29.986	49.406	0.00	0.00
ATOM	5119	C	PRO	X	340	64.655	28.031	48.545	0.00	0.00
ATOM	5120	O	PRO	X	340	64.083	26.975	48.313	0.00	0.00
ATOM	5121	N	GLY	X	341	65.835	28.328	47.957	0.00	0.00
ATOM	5122	H	GLY	X	341	66.216	29.259	48.052	0.00	0.00
ATOM	5123	CA	GLY	X	341	66.753	27.357	47.257	0.00	0.00
ATOM	5124	HA2	GLY	X	341	67.761	27.730	47.552	0.00	0.00
ATOM	5125	HA3	GLY	X	341	66.627	26.319	47.543	0.00	0.00
ATOM	5126	C	GLY	X	341	66.768	27.403	45.695	0.00	0.00
ATOM	5127	O	GLY	X	341	67.682	26.886	45.108	0.00	0.00
ATOM	5128	N	PHE	X	342	65.783	28.082	45.142	0.00	0.00
ATOM	5129	H	PHE	X	342	65.183	28.562	45.797	0.00	0.00
ATOM	5130	CA	PHE	X	342	65.702	28.522	43.731	0.00	0.00
ATOM	5131	HA	PHE	X	342	66.273	27.779	43.175	0.00	0.00
ATOM	5132	CB	PHE	X	342	64.252	28.419	43.240	0.00	0.00
ATOM	5133	HB2	PHE	X	342	63.678	29.294	43.545	0.00	0.00
ATOM	5134	HB3	PHE	X	342	64.222	28.467	42.151	0.00	0.00
ATOM	5135	CG	PHE	X	342	63.522	27.185	43.751	0.00	0.00
ATOM	5136	CD1	PHE	X	342	63.288	26.042	42.917	0.00	0.00
ATOM	5137	HD1	PHE	X	342	63.807	25.934	41.976	0.00	0.00
ATOM	5138	CE1	PHE	X	342	62.477	24.999	43.271	0.00	0.00
ATOM	5139	HE1	PHE	X	342	62.433	24.189	42.558	0.00	0.00
ATOM	5140	CZ	PHE	X	342	61.868	24.954	44.509	0.00	0.00
ATOM	5141	HZ	PHE	X	342	61.184	24.180	44.824	0.00	0.00
ATOM	5142	CE2	PHE	X	342	61.888	26.150	45.287	0.00	0.00
ATOM	5143	HE2	PHE	X	342	61.234	26.365	46.118	0.00	0.00
ATOM	5144	CD2	PHE	X	342	62.719	27.216	44.913	0.00	0.00
ATOM	5145	HD2	PHE	X	342	62.765	28.138	45.475	0.00	0.00
ATOM	5146	C	PHE	X	342	66.082	29.961	43.488	0.00	0.00
ATOM	5147	O	PHE	X	342	65.900	30.860	44.278	0.00	0.00
ATOM	5148	N	SER	X	343	66.587	30.181	42.247	0.00	0.00

ATOM	5149	H	SER	X	343	66.796	29.415	41.621	0.00	0.00
ATOM	5150	CA	SER	X	343	67.280	31.462	41.960	0.00	0.00
ATOM	5151	HA	SER	X	343	66.802	32.318	42.435	0.00	0.00
ATOM	5152	CB	SER	X	343	68.660	31.376	42.545	0.00	0.00
ATOM	5153	HB2	SER	X	343	68.461	31.469	43.613	0.00	0.00
ATOM	5154	HB3	SER	X	343	69.054	30.378	42.351	0.00	0.00
ATOM	5155	OG	SER	X	343	69.483	32.402	42.111	0.00	0.00
ATOM	5156	HG	SER	X	343	70.279	32.294	42.636	0.00	0.00
ATOM	5157	C	SER	X	343	67.330	31.584	40.416	0.00	0.00
ATOM	5158	O	SER	X	343	67.415	30.607	39.650	0.00	0.00
ATOM	5159	N	LYS	X	344	67.389	32.805	39.932	0.00	0.00
ATOM	5160	H	LYS	X	344	67.482	33.557	40.599	0.00	0.00
ATOM	5161	CA	LYS	X	344	67.594	33.124	38.514	0.00	0.00
ATOM	5162	HA	LYS	X	344	66.854	32.688	37.842	0.00	0.00
ATOM	5163	CB	LYS	X	344	67.358	34.640	38.339	0.00	0.00
ATOM	5164	HB2	LYS	X	344	67.241	34.835	37.273	0.00	0.00
ATOM	5165	HB3	LYS	X	344	66.330	34.914	38.575	0.00	0.00
ATOM	5166	CG	LYS	X	344	68.280	35.606	38.889	0.00	0.00
ATOM	5167	HG2	LYS	X	344	68.352	35.432	39.962	0.00	0.00
ATOM	5168	HG3	LYS	X	344	69.263	35.567	38.419	0.00	0.00
ATOM	5169	CD	LYS	X	344	67.768	37.003	38.740	0.00	0.00
ATOM	5170	HD2	LYS	X	344	67.715	37.216	37.672	0.00	0.00
ATOM	5171	HD3	LYS	X	344	66.848	37.061	39.321	0.00	0.00
ATOM	5172	CE	LYS	X	344	68.762	38.005	39.382	0.00	0.00
ATOM	5173	HE2	LYS	X	344	68.524	39.038	39.129	0.00	0.00
ATOM	5174	HE3	LYS	X	344	68.663	37.974	40.467	0.00	0.00
ATOM	5175	NZ	LYS	X	344	70.172	37.774	39.017	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	70.165	38.044	38.044	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	70.790	38.399	39.513	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	70.398	36.792	39.093	0.00	0.00
ATOM	5179	C	LYS	X	344	68.974	32.712	37.939	0.00	0.00
ATOM	5180	O	LYS	X	344	69.175	32.571	36.778	0.00	0.00
ATOM	5181	N	ASP	X	345	69.895	32.573	38.858	0.00	0.00
ATOM	5182	H	ASP	X	345	69.474	32.473	39.771	0.00	0.00
ATOM	5183	CA	ASP	X	345	71.340	32.420	38.796	0.00	0.00
ATOM	5184	HA	ASP	X	345	71.557	32.613	37.745	0.00	0.00
ATOM	5185	CB	ASP	X	345	72.004	33.445	39.778	0.00	0.00
ATOM	5186	HB2	ASP	X	345	71.702	33.165	40.787	0.00	0.00
ATOM	5187	HB3	ASP	X	345	73.090	33.349	39.776	0.00	0.00
ATOM	5188	CG	ASP	X	345	71.800	34.939	39.407	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.691	35.307	38.244	0.00	0.00
ATOM	5190	OD2	ASP	X	345	71.604	35.734	40.316	0.00	0.00
ATOM	5191	C	ASP	X	345	71.876	30.978	39.033	0.00	0.00
ATOM	5192	O	ASP	X	345	73.022	30.763	39.386	0.00	0.00
ATOM	5193	N	ASN	X	346	71.013	29.984	38.892	0.00	0.00
ATOM	5194	H	ASN	X	346	70.169	30.253	38.408	0.00	0.00
ATOM	5195	CA	ASN	X	346	71.140	28.592	39.419	0.00	0.00
ATOM	5196	HA	ASN	X	346	72.119	28.137	39.272	0.00	0.00
ATOM	5197	CB	ASN	X	346	70.891	28.591	40.899	0.00	0.00
ATOM	5198	HB2	ASN	X	346	71.492	29.425	41.263	0.00	0.00
ATOM	5199	HB3	ASN	X	346	69.842	28.867	41.012	0.00	0.00
ATOM	5200	CG	ASN	X	346	71.083	27.258	41.660	0.00	0.00
ATOM	5201	OD1	ASN	X	346	70.200	26.436	41.594	0.00	0.00
ATOM	5202	ND2	ASN	X	346	72.170	27.063	42.399	0.00	0.00
ATOM	5203	HD21	ASN	X	346	72.399	26.163	42.795	0.00	0.00
ATOM	5204	HD22	ASN	X	346	72.935	27.723	42.394	0.00	0.00
ATOM	5205	C	ASN	X	346	70.072	27.644	38.793	0.00	0.00
ATOM	5206	O	ASN	X	346	68.938	28.051	38.524	0.00	0.00
ATOM	5207	N	GLU	X	347	70.460	26.396	38.536	0.00	0.00
ATOM	5208	H	GLU	X	347	71.417	26.130	38.718	0.00	0.00
ATOM	5209	CA	GLU	X	347	69.515	25.500	37.742	0.00	0.00
ATOM	5210	HA	GLU	X	347	69.111	26.038	36.884	0.00	0.00
ATOM	5211	CB	GLU	X	347	70.099	24.228	37.145	0.00	0.00
ATOM	5212	HB2	GLU	X	347	70.714	23.734	37.896	0.00	0.00
ATOM	5213	HB3	GLU	X	347	69.219	23.704	36.770	0.00	0.00
ATOM	5214	CG	GLU	X	347	70.987	24.663	35.981	0.00	0.00
ATOM	5215	HG2	GLU	X	347	70.430	25.245	35.247	0.00	0.00
ATOM	5216	HG3	GLU	X	347	71.756	25.318	36.391	0.00	0.00
ATOM	5217	CD	GLU	X	347	71.577	23.466	35.317	0.00	0.00
ATOM	5218	OE1	GLU	X	347	71.210	23.329	34.140	0.00	0.00

ATOM	5219	OE2	GLU	X	347	72.391	22.697	35.824	0.00	0.00
ATOM	5220	C	GLU	X	347	68.204	25.223	38.481	0.00	0.00
ATOM	5221	O	GLU	X	347	67.159	25.022	37.843	0.00	0.00
ATOM	5222	N	SER	X	348	68.221	25.345	39.832	0.00	0.00
ATOM	5223	H	SER	X	348	69.093	25.574	40.288	0.00	0.00
ATOM	5224	CA	SER	X	348	67.043	25.430	40.681	0.00	0.00
ATOM	5225	HA	SER	X	348	67.383	25.424	41.717	0.00	0.00
ATOM	5226	CB	SER	X	348	66.163	26.725	40.406	0.00	0.00
ATOM	5227	HB2	SER	X	348	65.679	26.520	39.451	0.00	0.00
ATOM	5228	HB3	SER	X	348	65.400	26.965	41.146	0.00	0.00
ATOM	5229	OG	SER	X	348	66.934	27.798	40.371	0.00	0.00
ATOM	5230	HG	SER	X	348	67.346	27.869	39.507	0.00	0.00
ATOM	5231	C	SER	X	348	66.144	24.185	40.576	0.00	0.00
ATOM	5232	O	SER	X	348	64.891	24.296	40.558	0.00	0.00
ATOM	5233	N	LEU	X	349	66.864	23.041	40.539	0.00	0.00
ATOM	5234	H	LEU	X	349	67.849	23.124	40.748	0.00	0.00
ATOM	5235	CA	LEU	X	349	66.464	21.645	40.313	0.00	0.00
ATOM	5236	HA	LEU	X	349	65.679	21.662	39.557	0.00	0.00
ATOM	5237	CB	LEU	X	349	67.665	20.813	39.774	0.00	0.00
ATOM	5238	HB2	LEU	X	349	68.465	20.744	40.510	0.00	0.00
ATOM	5239	HB3	LEU	X	349	67.425	19.763	39.605	0.00	0.00
ATOM	5240	CG	LEU	X	349	68.310	21.299	38.429	0.00	0.00
ATOM	5241	HG	LEU	X	349	68.660	22.327	38.519	0.00	0.00
ATOM	5242	CD1	LEU	X	349	69.376	20.285	37.944	0.00	0.00
ATOM	5243	HD11	LEU	X	349	70.116	20.087	38.719	0.00	0.00
ATOM	5244	HD12	LEU	X	349	68.840	19.368	37.697	0.00	0.00
ATOM	5245	HD13	LEU	X	349	69.878	20.632	37.041	0.00	0.00
ATOM	5246	CD2	LEU	X	349	67.167	21.302	37.356	0.00	0.00
ATOM	5247	HD21	LEU	X	349	67.624	21.685	36.443	0.00	0.00
ATOM	5248	HD22	LEU	X	349	66.937	20.269	37.095	0.00	0.00
ATOM	5249	HD23	LEU	X	349	66.330	21.990	37.471	0.00	0.00
ATOM	5250	C	LEU	X	349	65.861	20.972	41.582	0.00	0.00
ATOM	5251	O	LEU	X	349	66.499	21.046	42.634	0.00	0.00
ATOM	5252	N	ILE	X	350	64.780	20.240	41.496	0.00	0.00
ATOM	5253	H	ILE	X	350	64.276	20.271	40.622	0.00	0.00
ATOM	5254	CA	ILE	X	350	64.192	19.443	42.584	0.00	0.00
ATOM	5255	HA	ILE	X	350	64.975	19.202	43.304	0.00	0.00
ATOM	5256	CB	ILE	X	350	62.925	20.230	43.223	0.00	0.00
ATOM	5257	HB	ILE	X	350	62.622	19.536	44.007	0.00	0.00
ATOM	5258	CG2	ILE	X	350	63.404	21.559	43.792	0.00	0.00
ATOM	5259	HG21	ILE	X	350	64.281	21.373	44.412	0.00	0.00
ATOM	5260	HG22	ILE	X	350	63.753	22.231	43.008	0.00	0.00
ATOM	5261	HG23	ILE	X	350	62.642	21.959	44.461	0.00	0.00
ATOM	5262	CG1	ILE	X	350	61.693	20.375	42.380	0.00	0.00
ATOM	5263	HG12	ILE	X	350	62.066	20.515	41.365	0.00	0.00
ATOM	5264	HG13	ILE	X	350	61.305	19.361	42.284	0.00	0.00
ATOM	5265	CD1	ILE	X	350	60.545	21.350	42.673	0.00	0.00
ATOM	5266	HD11	ILE	X	350	59.989	21.022	43.551	0.00	0.00
ATOM	5267	HD12	ILE	X	350	61.018	22.304	42.904	0.00	0.00
ATOM	5268	HD13	ILE	X	350	60.029	21.386	41.713	0.00	0.00
ATOM	5269	C	ILE	X	350	63.756	18.045	42.179	0.00	0.00
ATOM	5270	O	ILE	X	350	63.376	17.851	41.029	0.00	0.00
ATOM	5271	N	SER	X	351	63.781	17.088	43.130	0.00	0.00
ATOM	5272	H	SER	X	351	64.107	17.410	44.030	0.00	0.00
ATOM	5273	CA	SER	X	351	63.133	15.784	43.129	0.00	0.00
ATOM	5274	HA	SER	X	351	63.304	15.295	42.170	0.00	0.00
ATOM	5275	CB	SER	X	351	63.687	14.844	44.253	0.00	0.00
ATOM	5276	HB2	SER	X	351	63.633	13.801	43.942	0.00	0.00
ATOM	5277	HB3	SER	X	351	64.762	14.999	44.348	0.00	0.00
ATOM	5278	OG	SER	X	351	62.990	14.989	45.476	0.00	0.00
ATOM	5279	HG	SER	X	351	63.447	14.459	46.132	0.00	0.00
ATOM	5280	C	SER	X	351	61.570	15.903	43.265	0.00	0.00
ATOM	5281	O	SER	X	351	61.085	17.018	43.458	0.00	0.00
ATOM	5282	N	ARG	X	352	60.860	14.831	43.085	0.00	0.00
ATOM	5283	H	ARG	X	352	61.432	14.045	42.811	0.00	0.00
ATOM	5284	CA	ARG	X	352	59.388	14.777	43.202	0.00	0.00
ATOM	5285	HA	ARG	X	352	59.023	15.702	42.755	0.00	0.00
ATOM	5286	CB	ARG	X	352	58.846	13.604	42.388	0.00	0.00
ATOM	5287	HB2	ARG	X	352	59.326	13.512	41.414	0.00	0.00
ATOM	5288	HB3	ARG	X	352	58.875	12.664	42.939	0.00	0.00

ATOM	5289	CG	ARG	X	352	57.357	13.856	41.939	0.00	0.00
ATOM	5290	HG2	ARG	X	352	56.746	13.767	42.837	0.00	0.00
ATOM	5291	HG3	ARG	X	352	57.366	14.888	41.587	0.00	0.00
ATOM	5292	CD	ARG	X	352	56.624	12.969	40.906	0.00	0.00
ATOM	5293	HD2	ARG	X	352	55.611	13.296	40.669	0.00	0.00
ATOM	5294	HD3	ARG	X	352	57.093	13.048	39.925	0.00	0.00
ATOM	5295	NE	ARG	X	352	56.494	11.515	41.258	0.00	0.00
ATOM	5296	HE	ARG	X	352	55.792	11.267	41.941	0.00	0.00
ATOM	5297	CZ	ARG	X	352	57.211	10.507	40.744	0.00	0.00
ATOM	5298	NH1	ARG	X	352	57.985	10.687	39.690	0.00	0.00
ATOM	5299	HH11	ARG	X	352	58.111	11.561	39.199	0.00	0.00
ATOM	5300	HH12	ARG	X	352	58.445	9.907	39.242	0.00	0.00
ATOM	5301	NH2	ARG	X	352	57.043	9.271	41.157	0.00	0.00
ATOM	5302	HH21	ARG	X	352	56.386	9.048	41.891	0.00	0.00
ATOM	5303	HH22	ARG	X	352	57.446	8.529	40.604	0.00	0.00
ATOM	5304	C	ARG	X	352	58.839	14.781	44.691	0.00	0.00
ATOM	5305	O	ARG	X	352	57.781	15.431	44.885	0.00	0.00
ATOM	5306	N	ALA	X	353	59.567	14.241	45.667	0.00	0.00
ATOM	5307	H	ALA	X	353	60.402	13.745	45.390	0.00	0.00
ATOM	5308	CA	ALA	X	353	59.388	14.444	47.098	0.00	0.00
ATOM	5309	HA	ALA	X	353	58.361	14.213	47.379	0.00	0.00
ATOM	5310	CB	ALA	X	353	60.405	13.586	47.820	0.00	0.00
ATOM	5311	HB1	ALA	X	353	60.274	13.579	48.902	0.00	0.00
ATOM	5312	HB2	ALA	X	353	60.394	12.542	47.506	0.00	0.00
ATOM	5313	HB3	ALA	X	353	61.439	13.852	47.603	0.00	0.00
ATOM	5314	C	ALA	X	353	59.601	15.974	47.476	0.00	0.00
ATOM	5315	O	ALA	X	353	58.789	16.635	48.233	0.00	0.00
ATOM	5316	N	GLU	X	354	60.701	16.613	46.964	0.00	0.00
ATOM	5317	H	GLU	X	354	61.413	16.058	46.512	0.00	0.00
ATOM	5318	CA	GLU	X	354	60.820	18.056	46.991	0.00	0.00
ATOM	5319	HA	GLU	X	354	60.899	18.409	48.019	0.00	0.00
ATOM	5320	CB	GLU	X	354	62.230	18.387	46.374	0.00	0.00
ATOM	5321	HB2	GLU	X	354	62.418	18.037	45.359	0.00	0.00
ATOM	5322	HB3	GLU	X	354	62.322	19.463	46.225	0.00	0.00
ATOM	5323	CG	GLU	X	354	63.425	18.010	47.344	0.00	0.00
ATOM	5324	HG2	GLU	X	354	63.336	18.609	48.251	0.00	0.00
ATOM	5325	HG3	GLU	X	354	63.440	16.938	47.539	0.00	0.00
ATOM	5326	CD	GLU	X	354	64.737	18.541	46.586	0.00	0.00
ATOM	5327	OE1	GLU	X	354	65.242	19.621	47.047	0.00	0.00
ATOM	5328	OE2	GLU	X	354	65.200	17.839	45.630	0.00	0.00
ATOM	5329	C	GLU	X	354	59.628	18.798	46.367	0.00	0.00
ATOM	5330	O	GLU	X	354	59.157	19.714	47.000	0.00	0.00
ATOM	5331	N	PHE	X	355	59.183	18.396	45.177	0.00	0.00
ATOM	5332	H	PHE	X	355	59.600	17.551	44.813	0.00	0.00
ATOM	5333	CA	PHE	X	355	58.034	19.022	44.544	0.00	0.00
ATOM	5334	HA	PHE	X	355	58.294	20.072	44.405	0.00	0.00
ATOM	5335	CB	PHE	X	355	57.766	18.378	43.167	0.00	0.00
ATOM	5336	HB2	PHE	X	355	58.588	18.632	42.497	0.00	0.00
ATOM	5337	HB3	PHE	X	355	57.725	17.295	43.286	0.00	0.00
ATOM	5338	CG	PHE	X	355	56.519	18.761	42.408	0.00	0.00
ATOM	5339	CD1	PHE	X	355	56.047	20.086	42.355	0.00	0.00
ATOM	5340	HD1	PHE	X	355	56.581	20.897	42.828	0.00	0.00
ATOM	5341	CE1	PHE	X	355	54.799	20.344	41.799	0.00	0.00
ATOM	5342	HE1	PHE	X	355	54.492	21.380	41.808	0.00	0.00
ATOM	5343	CZ	PHE	X	355	54.147	19.391	41.052	0.00	0.00
ATOM	5344	HZ	PHE	X	355	53.279	19.620	40.451	0.00	0.00
ATOM	5345	CE2	PHE	X	355	54.733	18.094	40.926	0.00	0.00
ATOM	5346	HE2	PHE	X	355	54.267	17.362	40.283	0.00	0.00
ATOM	5347	CD2	PHE	X	355	55.906	17.748	41.677	0.00	0.00
ATOM	5348	HD2	PHE	X	355	56.320	16.751	41.700	0.00	0.00
ATOM	5349	C	PHE	X	355	56.757	18.882	45.406	0.00	0.00
ATOM	5350	O	PHE	X	355	55.956	19.831	45.488	0.00	0.00
ATOM	5351	N	LEU	X	356	56.545	17.761	46.131	0.00	0.00
ATOM	5352	H	LEU	X	356	57.100	16.937	45.950	0.00	0.00
ATOM	5353	CA	LEU	X	356	55.515	17.639	47.103	0.00	0.00
ATOM	5354	HA	LEU	X	356	54.518	17.776	46.684	0.00	0.00
ATOM	5355	CB	LEU	X	356	55.485	16.137	47.539	0.00	0.00
ATOM	5356	HB2	LEU	X	356	55.437	15.638	46.572	0.00	0.00
ATOM	5357	HB3	LEU	X	356	56.454	15.838	47.939	0.00	0.00
ATOM	5358	CG	LEU	X	356	54.427	15.679	48.555	0.00	0.00

ATOM	5359	HG	LEU	X	356	54.473	14.595	48.459	0.00	0.00
ATOM	5360	CD1	LEU	X	356	54.795	16.191	49.996	0.00	0.00
ATOM	5361	HD11	LEU	X	356	55.828	16.238	50.341	0.00	0.00
ATOM	5362	HD12	LEU	X	356	54.418	17.173	50.284	0.00	0.00
ATOM	5363	HD13	LEU	X	356	54.208	15.508	50.610	0.00	0.00
ATOM	5364	CD2	LEU	X	356	52.983	15.992	48.190	0.00	0.00
ATOM	5365	HD21	LEU	X	356	52.711	16.988	48.541	0.00	0.00
ATOM	5366	HD22	LEU	X	356	52.899	16.106	47.109	0.00	0.00
ATOM	5367	HD23	LEU	X	356	52.227	15.320	48.596	0.00	0.00
ATOM	5368	C	LEU	X	356	55.734	18.710	48.204	0.00	0.00
ATOM	5369	O	LEU	X	356	54.736	19.334	48.661	0.00	0.00
ATOM	5370	N	ALA	X	357	56.995	18.873	48.703	0.00	0.00
ATOM	5371	H	ALA	X	357	57.698	18.237	48.354	0.00	0.00
ATOM	5372	CA	ALA	X	357	57.255	19.855	49.799	0.00	0.00
ATOM	5373	HA	ALA	X	357	56.562	19.593	50.599	0.00	0.00
ATOM	5374	CB	ALA	X	357	58.692	19.730	50.259	0.00	0.00
ATOM	5375	HB1	ALA	X	357	59.422	20.047	49.515	0.00	0.00
ATOM	5376	HB2	ALA	X	357	58.769	20.316	51.174	0.00	0.00
ATOM	5377	HB3	ALA	X	357	59.044	18.713	50.436	0.00	0.00
ATOM	5378	C	ALA	X	357	56.918	21.248	49.238	0.00	0.00
ATOM	5379	O	ALA	X	357	56.285	21.998	49.922	0.00	0.00
ATOM	5380	N	GLY	X	358	57.369	21.528	48.022	0.00	0.00
ATOM	5381	H	GLY	X	358	58.029	20.909	47.573	0.00	0.00
ATOM	5382	CA	GLY	X	358	57.071	22.755	47.276	0.00	0.00
ATOM	5383	HA2	GLY	X	358	57.641	23.643	47.614	0.00	0.00
ATOM	5384	HA3	GLY	X	358	57.375	22.501	46.207	0.00	0.00
ATOM	5385	C	GLY	X	358	55.604	23.084	47.239	0.00	0.00
ATOM	5386	O	GLY	X	358	55.177	24.178	47.515	0.00	0.00
ATOM	5387	N	VAL	X	359	54.801	22.054	46.896	0.00	0.00
ATOM	5388	H	VAL	X	359	55.150	21.161	46.577	0.00	0.00
ATOM	5389	CA	VAL	X	359	53.346	22.192	46.912	0.00	0.00
ATOM	5390	HA	VAL	X	359	53.129	22.976	46.186	0.00	0.00
ATOM	5391	CB	VAL	X	359	52.627	20.952	46.391	0.00	0.00
ATOM	5392	HB	VAL	X	359	52.900	20.120	47.041	0.00	0.00
ATOM	5393	CG1	VAL	X	359	51.106	21.051	46.595	0.00	0.00
ATOM	5394	HG11	VAL	X	359	50.561	20.182	46.229	0.00	0.00
ATOM	5395	HG12	VAL	X	359	50.799	21.096	47.640	0.00	0.00
ATOM	5396	HG13	VAL	X	359	50.769	21.908	46.011	0.00	0.00
ATOM	5397	CG2	VAL	X	359	52.825	20.682	44.841	0.00	0.00
ATOM	5398	HG21	VAL	X	359	52.015	19.991	44.606	0.00	0.00
ATOM	5399	HG22	VAL	X	359	52.731	21.552	44.191	0.00	0.00
ATOM	5400	HG23	VAL	X	359	53.717	20.079	44.674	0.00	0.00
ATOM	5401	C	VAL	X	359	52.841	22.625	48.323	0.00	0.00
ATOM	5402	O	VAL	X	359	52.198	23.694	48.503	0.00	0.00
ATOM	5403	N	ARG	X	360	53.210	21.871	49.361	0.00	0.00
ATOM	5404	H	ARG	X	360	53.955	21.194	49.284	0.00	0.00
ATOM	5405	CA	ARG	X	360	52.723	22.112	50.752	0.00	0.00
ATOM	5406	HA	ARG	X	360	51.652	21.943	50.856	0.00	0.00
ATOM	5407	CB	ARG	X	360	53.435	21.144	51.765	0.00	0.00
ATOM	5408	HB2	ARG	X	360	54.522	21.166	51.692	0.00	0.00
ATOM	5409	HB3	ARG	X	360	53.339	21.542	52.775	0.00	0.00
ATOM	5410	CG	ARG	X	360	52.951	19.703	51.674	0.00	0.00
ATOM	5411	HG2	ARG	X	360	53.371	19.260	50.771	0.00	0.00
ATOM	5412	HG3	ARG	X	360	53.429	19.225	52.529	0.00	0.00
ATOM	5413	CD	ARG	X	360	51.411	19.506	51.783	0.00	0.00
ATOM	5414	HD2	ARG	X	360	50.960	19.798	50.834	0.00	0.00
ATOM	5415	HD3	ARG	X	360	51.226	18.432	51.788	0.00	0.00
ATOM	5416	NE	ARG	X	360	50.793	20.020	53.014	0.00	0.00
ATOM	5417	HE	ARG	X	360	50.314	20.907	52.944	0.00	0.00
ATOM	5418	CZ	ARG	X	360	50.602	19.405	54.168	0.00	0.00
ATOM	5419	NH1	ARG	X	360	50.850	18.129	54.351	0.00	0.00
ATOM	5420	HH11	ARG	X	360	51.378	17.557	53.707	0.00	0.00
ATOM	5421	HH12	ARG	X	360	50.536	17.674	55.196	0.00	0.00
ATOM	5422	NH2	ARG	X	360	50.169	20.036	55.173	0.00	0.00
ATOM	5423	HH21	ARG	X	360	49.886	20.992	55.016	0.00	0.00
ATOM	5424	HH22	ARG	X	360	49.851	19.692	56.067	0.00	0.00
ATOM	5425	C	ARG	X	360	53.044	23.543	51.214	0.00	0.00
ATOM	5426	O	ARG	X	360	52.220	24.067	52.010	0.00	0.00
ATOM	5427	N	VAL	X	361	54.201	24.097	50.778	0.00	0.00
ATOM	5428	H	VAL	X	361	54.773	23.506	50.192	0.00	0.00

ATOM	5429	CA	VAL	X	361	54.548	25.464	51.091	0.00	0.00
ATOM	5430	HA	VAL	X	361	54.027	25.640	52.032	0.00	0.00
ATOM	5431	CB	VAL	X	361	56.041	25.594	51.442	0.00	0.00
ATOM	5432	HB	VAL	X	361	56.151	26.641	51.724	0.00	0.00
ATOM	5433	CG1	VAL	X	361	56.491	24.642	52.583	0.00	0.00
ATOM	5434	HG11	VAL	X	361	55.814	24.530	53.430	0.00	0.00
ATOM	5435	HG12	VAL	X	361	56.472	23.612	52.227	0.00	0.00
ATOM	5436	HG13	VAL	X	361	57.546	24.806	52.801	0.00	0.00
ATOM	5437	CG2	VAL	X	361	56.970	25.444	50.258	0.00	0.00
ATOM	5438	HG21	VAL	X	361	56.861	26.316	49.613	0.00	0.00
ATOM	5439	HG22	VAL	X	361	58.017	25.332	50.539	0.00	0.00
ATOM	5440	HG23	VAL	X	361	56.631	24.551	49.733	0.00	0.00
ATOM	5441	C	VAL	X	361	54.110	26.574	50.126	0.00	0.00
ATOM	5442	O	VAL	X	361	54.201	27.794	50.361	0.00	0.00
ATOM	5443	N	GLY	X	362	53.634	26.192	48.903	0.00	0.00
ATOM	5444	H	GLY	X	362	53.765	25.204	48.739	0.00	0.00
ATOM	5445	CA	GLY	X	362	53.250	27.055	47.752	0.00	0.00
ATOM	5446	HA2	GLY	X	362	53.762	28.040	47.750	0.00	0.00
ATOM	5447	HA3	GLY	X	362	53.473	26.506	46.792	0.00	0.00
ATOM	5448	C	GLY	X	362	51.714	27.266	47.682	0.00	0.00
ATOM	5449	O	GLY	X	362	51.231	28.393	47.463	0.00	0.00
ATOM	5450	N	VAL	X	363	50.995	26.144	48.039	0.00	0.00
ATOM	5451	H	VAL	X	363	51.428	25.281	48.335	0.00	0.00
ATOM	5452	CA	VAL	X	363	49.525	26.183	48.169	0.00	0.00
ATOM	5453	HA	VAL	X	363	49.088	27.096	47.766	0.00	0.00
ATOM	5454	CB	VAL	X	363	48.892	24.906	47.491	0.00	0.00
ATOM	5455	HB	VAL	X	363	49.420	24.004	47.801	0.00	0.00
ATOM	5456	CG1	VAL	X	363	47.398	24.732	47.848	0.00	0.00
ATOM	5457	HG11	VAL	X	363	46.994	23.730	47.705	0.00	0.00
ATOM	5458	HG12	VAL	X	363	47.233	24.782	48.924	0.00	0.00
ATOM	5459	HG13	VAL	X	363	46.822	25.555	47.426	0.00	0.00
ATOM	5460	CG2	VAL	X	363	49.088	25.082	45.944	0.00	0.00
ATOM	5461	HG21	VAL	X	363	50.107	25.349	45.663	0.00	0.00
ATOM	5462	HG22	VAL	X	363	48.928	24.136	45.425	0.00	0.00
ATOM	5463	HG23	VAL	X	363	48.456	25.833	45.470	0.00	0.00
ATOM	5464	C	VAL	X	363	49.163	26.190	49.662	0.00	0.00
ATOM	5465	O	VAL	X	363	49.587	25.263	50.354	0.00	0.00
ATOM	5466	N	PRO	X	364	48.407	27.154	50.147	0.00	0.00
ATOM	5467	CD	PRO	X	364	47.878	28.335	49.518	0.00	0.00
ATOM	5468	HD2	PRO	X	364	47.287	27.970	48.678	0.00	0.00
ATOM	5469	HD3	PRO	X	364	48.660	29.052	49.266	0.00	0.00
ATOM	5470	CG	PRO	X	364	46.933	28.906	50.570	0.00	0.00
ATOM	5471	HG2	PRO	X	364	46.044	28.277	50.530	0.00	0.00
ATOM	5472	HG3	PRO	X	364	46.753	29.975	50.456	0.00	0.00
ATOM	5473	CB	PRO	X	364	47.636	28.620	51.870	0.00	0.00
ATOM	5474	HB2	PRO	X	364	47.013	28.707	52.759	0.00	0.00
ATOM	5475	HB3	PRO	X	364	48.581	29.163	51.852	0.00	0.00
ATOM	5476	CA	PRO	X	364	48.089	27.157	51.559	0.00	0.00
ATOM	5477	HA	PRO	X	364	49.009	26.937	52.099	0.00	0.00
ATOM	5478	C	PRO	X	364	47.017	26.103	51.842	0.00	0.00
ATOM	5479	O	PRO	X	364	46.297	25.764	50.945	0.00	0.00
ATOM	5480	N	GLN	X	365	46.915	25.656	53.094	0.00	0.00
ATOM	5481	H	GLN	X	365	47.662	25.860	53.743	0.00	0.00
ATOM	5482	CA	GLN	X	365	45.801	24.809	53.692	0.00	0.00
ATOM	5483	HA	GLN	X	365	45.920	24.783	54.776	0.00	0.00
ATOM	5484	CB	GLN	X	365	44.412	25.347	53.386	0.00	0.00
ATOM	5485	HB2	GLN	X	365	44.141	25.021	52.382	0.00	0.00
ATOM	5486	HB3	GLN	X	365	43.784	24.879	54.144	0.00	0.00
ATOM	5487	CG	GLN	X	365	44.264	26.891	53.566	0.00	0.00
ATOM	5488	HG2	GLN	X	365	44.638	27.197	54.543	0.00	0.00
ATOM	5489	HG3	GLN	X	365	44.841	27.358	52.769	0.00	0.00
ATOM	5490	CD	GLN	X	365	42.832	27.364	53.471	0.00	0.00
ATOM	5491	OE1	GLN	X	365	41.884	26.639	53.715	0.00	0.00
ATOM	5492	NE2	GLN	X	365	42.565	28.582	53.155	0.00	0.00
ATOM	5493	HE21	GLN	X	365	41.608	28.833	53.359	0.00	0.00
ATOM	5494	HE22	GLN	X	365	43.315	29.256	53.219	0.00	0.00
ATOM	5495	C	GLN	X	365	45.770	23.342	53.312	0.00	0.00
ATOM	5496	O	GLN	X	365	45.108	22.527	53.956	0.00	0.00
ATOM	5497	N	VAL	X	366	46.450	22.939	52.188	0.00	0.00
ATOM	5498	H	VAL	X	366	46.869	23.713	51.693	0.00	0.00

ATOM	5499	CA	VAL	X	366	46.305	21.603	51.552	0.00	0.00
ATOM	5500	HA	VAL	X	366	45.236	21.503	51.368	0.00	0.00
ATOM	5501	CB	VAL	X	366	46.971	21.649	50.095	0.00	0.00
ATOM	5502	HB	VAL	X	366	46.590	22.535	49.587	0.00	0.00
ATOM	5503	CG1	VAL	X	366	48.461	21.681	50.172	0.00	0.00
ATOM	5504	HG11	VAL	X	366	48.685	22.632	50.656	0.00	0.00
ATOM	5505	HG12	VAL	X	366	48.883	20.840	50.722	0.00	0.00
ATOM	5506	HG13	VAL	X	366	48.828	21.630	49.147	0.00	0.00
ATOM	5507	CG2	VAL	X	366	46.581	20.349	49.289	0.00	0.00
ATOM	5508	HG21	VAL	X	366	47.151	20.383	48.361	0.00	0.00
ATOM	5509	HG22	VAL	X	366	46.794	19.425	49.828	0.00	0.00
ATOM	5510	HG23	VAL	X	366	45.518	20.380	49.049	0.00	0.00
ATOM	5511	C	VAL	X	366	46.875	20.370	52.469	0.00	0.00
ATOM	5512	O	VAL	X	366	47.891	20.506	53.173	0.00	0.00
ATOM	5513	N	SER	X	367	46.268	19.213	52.343	0.00	0.00
ATOM	5514	H	SER	X	367	45.559	19.089	51.635	0.00	0.00
ATOM	5515	CA	SER	X	367	46.629	17.941	53.063	0.00	0.00
ATOM	5516	HA	SER	X	367	47.112	18.297	53.973	0.00	0.00
ATOM	5517	CB	SER	X	367	45.305	17.203	53.441	0.00	0.00
ATOM	5518	HB2	SER	X	367	45.379	16.475	54.250	0.00	0.00
ATOM	5519	HB3	SER	X	367	44.676	18.044	53.729	0.00	0.00
ATOM	5520	OG	SER	X	367	44.668	16.557	52.280	0.00	0.00
ATOM	5521	HG	SER	X	367	43.797	16.192	52.453	0.00	0.00
ATOM	5522	C	SER	X	367	47.628	17.030	52.330	0.00	0.00
ATOM	5523	O	SER	X	367	47.964	17.260	51.150	0.00	0.00
ATOM	5524	N	ASP	X	368	48.090	15.958	52.969	0.00	0.00
ATOM	5525	H	ASP	X	368	47.781	15.723	53.901	0.00	0.00
ATOM	5526	CA	ASP	X	368	49.243	15.093	52.389	0.00	0.00
ATOM	5527	HA	ASP	X	368	50.073	15.717	52.058	0.00	0.00
ATOM	5528	CB	ASP	X	368	49.837	14.319	53.501	0.00	0.00
ATOM	5529	HB2	ASP	X	368	50.010	14.935	54.384	0.00	0.00
ATOM	5530	HB3	ASP	X	368	49.028	13.682	53.856	0.00	0.00
ATOM	5531	CG	ASP	X	368	51.043	13.408	53.111	0.00	0.00
ATOM	5532	OD1	ASP	X	368	52.225	13.857	53.011	0.00	0.00
ATOM	5533	OD2	ASP	X	368	50.741	12.263	52.746	0.00	0.00
ATOM	5534	C	ASP	X	368	48.721	14.292	51.164	0.00	0.00
ATOM	5535	O	ASP	X	368	49.430	14.197	50.187	0.00	0.00
ATOM	5536	N	LEU	X	369	47.502	13.723	51.213	0.00	0.00
ATOM	5537	H	LEU	X	369	47.026	13.608	52.096	0.00	0.00
ATOM	5538	CA	LEU	X	369	46.938	13.020	50.041	0.00	0.00
ATOM	5539	HA	LEU	X	369	47.612	12.261	49.642	0.00	0.00
ATOM	5540	CB	LEU	X	369	45.721	12.177	50.532	0.00	0.00
ATOM	5541	HB2	LEU	X	369	45.084	12.808	51.152	0.00	0.00
ATOM	5542	HB3	LEU	X	369	45.166	11.826	49.662	0.00	0.00
ATOM	5543	CG	LEU	X	369	45.977	10.937	51.492	0.00	0.00
ATOM	5544	HG	LEU	X	369	46.654	11.252	52.286	0.00	0.00
ATOM	5545	CD1	LEU	X	369	44.669	10.418	52.037	0.00	0.00
ATOM	5546	HD11	LEU	X	369	44.855	9.535	52.648	0.00	0.00
ATOM	5547	HD12	LEU	X	369	44.223	11.111	52.751	0.00	0.00
ATOM	5548	HD13	LEU	X	369	43.925	10.255	51.257	0.00	0.00
ATOM	5549	CD2	LEU	X	369	46.611	9.820	50.534	0.00	0.00
ATOM	5550	HD21	LEU	X	369	45.975	9.680	49.660	0.00	0.00
ATOM	5551	HD22	LEU	X	369	47.618	10.125	50.249	0.00	0.00
ATOM	5552	HD23	LEU	X	369	46.764	8.842	50.989	0.00	0.00
ATOM	5553	C	LEU	X	369	46.590	13.951	48.957	0.00	0.00
ATOM	5554	O	LEU	X	369	46.455	13.550	47.797	0.00	0.00
ATOM	5555	N	ALA	X	370	46.214	15.197	49.369	0.00	0.00
ATOM	5556	H	ALA	X	370	46.154	15.428	50.350	0.00	0.00
ATOM	5557	CA	ALA	X	370	45.684	16.185	48.410	0.00	0.00
ATOM	5558	HA	ALA	X	370	45.019	15.757	47.661	0.00	0.00
ATOM	5559	CB	ALA	X	370	44.991	17.209	49.246	0.00	0.00
ATOM	5560	HB1	ALA	X	370	44.911	18.139	48.684	0.00	0.00
ATOM	5561	HB2	ALA	X	370	43.978	16.990	49.582	0.00	0.00
ATOM	5562	HB3	ALA	X	370	45.639	17.513	50.068	0.00	0.00
ATOM	5563	C	ALA	X	370	46.821	16.771	47.618	0.00	0.00
ATOM	5564	O	ALA	X	370	46.774	16.805	46.382	0.00	0.00
ATOM	5565	N	ALA	X	371	47.889	17.220	48.303	0.00	0.00
ATOM	5566	H	ALA	X	371	47.838	17.217	49.312	0.00	0.00
ATOM	5567	CA	ALA	X	371	49.115	17.539	47.661	0.00	0.00
ATOM	5568	HA	ALA	X	371	48.995	18.366	46.961	0.00	0.00

ATOM	5569	CB	ALA	X	371	50.066	17.945	48.880	0.00	0.00
ATOM	5570	HB1	ALA	X	371	50.976	18.444	48.544	0.00	0.00
ATOM	5571	HB2	ALA	X	371	49.530	18.596	49.571	0.00	0.00
ATOM	5572	HB3	ALA	X	371	50.272	17.110	49.550	0.00	0.00
ATOM	5573	C	ALA	X	371	49.751	16.366	46.900	0.00	0.00
ATOM	5574	O	ALA	X	371	50.362	16.734	45.871	0.00	0.00
ATOM	5575	N	GLU	X	372	49.508	15.095	47.305	0.00	0.00
ATOM	5576	H	GLU	X	372	49.029	15.013	48.191	0.00	0.00
ATOM	5577	CA	GLU	X	372	49.841	13.877	46.505	0.00	0.00
ATOM	5578	HA	GLU	X	372	50.902	14.033	46.311	0.00	0.00
ATOM	5579	CB	GLU	X	372	49.630	12.565	47.284	0.00	0.00
ATOM	5580	HB2	GLU	X	372	50.168	12.490	48.229	0.00	0.00
ATOM	5581	HB3	GLU	X	372	48.557	12.389	47.362	0.00	0.00
ATOM	5582	CG	GLU	X	372	50.265	11.474	46.370	0.00	0.00
ATOM	5583	HG2	GLU	X	372	49.525	11.326	45.584	0.00	0.00
ATOM	5584	HG3	GLU	X	372	51.229	11.798	45.977	0.00	0.00
ATOM	5585	CD	GLU	X	372	50.397	10.126	47.049	0.00	0.00
ATOM	5586	OE1	GLU	X	372	51.471	9.968	47.672	0.00	0.00
ATOM	5587	OE2	GLU	X	372	49.380	9.322	47.128	0.00	0.00
ATOM	5588	C	GLU	X	372	49.063	13.896	45.194	0.00	0.00
ATOM	5589	O	GLU	X	372	49.619	13.701	44.085	0.00	0.00
ATOM	5590	N	ALA	X	373	47.725	14.082	45.254	0.00	0.00
ATOM	5591	H	ALA	X	373	47.201	14.241	46.102	0.00	0.00
ATOM	5592	CA	ALA	X	373	46.836	14.060	44.083	0.00	0.00
ATOM	5593	HA	ALA	X	373	46.954	13.082	43.618	0.00	0.00
ATOM	5594	CB	ALA	X	373	45.366	14.239	44.554	0.00	0.00
ATOM	5595	HB1	ALA	X	373	45.065	15.217	44.928	0.00	0.00
ATOM	5596	HB2	ALA	X	373	44.872	13.962	43.623	0.00	0.00
ATOM	5597	HB3	ALA	X	373	45.190	13.565	45.392	0.00	0.00
ATOM	5598	C	ALA	X	373	47.204	15.281	43.119	0.00	0.00
ATOM	5599	O	ALA	X	373	47.042	15.252	41.887	0.00	0.00
ATOM	5600	N	VAL	X	374	47.608	16.436	43.683	0.00	0.00
ATOM	5601	H	VAL	X	374	47.557	16.474	44.691	0.00	0.00
ATOM	5602	CA	VAL	X	374	48.113	17.561	42.859	0.00	0.00
ATOM	5603	HA	VAL	X	374	47.370	17.757	42.087	0.00	0.00
ATOM	5604	CB	VAL	X	374	48.436	18.878	43.661	0.00	0.00
ATOM	5605	HB	VAL	X	374	49.165	18.644	44.437	0.00	0.00
ATOM	5606	CG1	VAL	X	374	49.038	20.022	42.837	0.00	0.00
ATOM	5607	HG11	VAL	X	374	48.239	20.462	42.241	0.00	0.00
ATOM	5608	HG12	VAL	X	374	49.470	20.782	43.488	0.00	0.00
ATOM	5609	HG13	VAL	X	374	49.884	19.587	42.305	0.00	0.00
ATOM	5610	CG2	VAL	X	374	47.258	19.546	44.433	0.00	0.00
ATOM	5611	HG21	VAL	X	374	46.455	19.908	43.791	0.00	0.00
ATOM	5612	HG22	VAL	X	374	46.906	19.040	45.333	0.00	0.00
ATOM	5613	HG23	VAL	X	374	47.668	20.408	44.960	0.00	0.00
ATOM	5614	C	VAL	X	374	49.358	17.189	42.118	0.00	0.00
ATOM	5615	O	VAL	X	374	49.319	17.443	40.950	0.00	0.00
ATOM	5616	N	VAL	X	375	50.349	16.677	42.881	0.00	0.00
ATOM	5617	H	VAL	X	375	50.288	16.626	43.887	0.00	0.00
ATOM	5618	CA	VAL	X	375	51.609	16.197	42.254	0.00	0.00
ATOM	5619	HA	VAL	X	375	51.992	17.021	41.652	0.00	0.00
ATOM	5620	CB	VAL	X	375	52.659	15.792	43.325	0.00	0.00
ATOM	5621	HB	VAL	X	375	52.143	15.107	43.998	0.00	0.00
ATOM	5622	CG1	VAL	X	375	53.867	15.056	42.875	0.00	0.00
ATOM	5623	HG11	VAL	X	375	53.574	14.075	42.500	0.00	0.00
ATOM	5624	HG12	VAL	X	375	54.351	15.451	41.982	0.00	0.00
ATOM	5625	HG13	VAL	X	375	54.649	14.940	43.625	0.00	0.00
ATOM	5626	CG2	VAL	X	375	53.196	16.966	44.257	0.00	0.00
ATOM	5627	HG21	VAL	X	375	54.039	16.564	44.818	0.00	0.00
ATOM	5628	HG22	VAL	X	375	53.535	17.799	43.640	0.00	0.00
ATOM	5629	HG23	VAL	X	375	52.482	17.232	45.037	0.00	0.00
ATOM	5630	C	VAL	X	375	51.486	15.117	41.193	0.00	0.00
ATOM	5631	O	VAL	X	375	52.395	14.920	40.365	0.00	0.00
ATOM	5632	N	LEU	X	376	50.430	14.351	41.218	0.00	0.00
ATOM	5633	H	LEU	X	376	49.870	14.402	42.057	0.00	0.00
ATOM	5634	CA	LEU	X	376	50.146	13.236	40.254	0.00	0.00
ATOM	5635	HA	LEU	X	376	51.054	12.759	39.885	0.00	0.00
ATOM	5636	CB	LEU	X	376	49.270	12.109	40.894	0.00	0.00
ATOM	5637	HB2	LEU	X	376	49.803	11.516	41.636	0.00	0.00
ATOM	5638	HB3	LEU	X	376	48.433	12.572	41.417	0.00	0.00

ATOM	5639	CG	LEU	X	376	48.733	11.016	39.872	0.00	0.00
ATOM	5640	HG	LEU	X	376	47.992	11.486	39.226	0.00	0.00
ATOM	5641	CD1	LEU	X	376	49.799	10.401	39.004	0.00	0.00
ATOM	5642	HD11	LEU	X	376	49.402	9.586	38.399	0.00	0.00
ATOM	5643	HD12	LEU	X	376	50.158	11.117	38.264	0.00	0.00
ATOM	5644	HD13	LEU	X	376	50.576	9.984	39.645	0.00	0.00
ATOM	5645	CD2	LEU	X	376	47.976	9.872	40.548	0.00	0.00
ATOM	5646	HD21	LEU	X	376	47.226	10.143	41.291	0.00	0.00
ATOM	5647	HD22	LEU	X	376	47.326	9.338	39.855	0.00	0.00
ATOM	5648	HD23	LEU	X	376	48.666	9.215	41.079	0.00	0.00
ATOM	5649	C	LEU	X	376	49.553	13.982	39.027	0.00	0.00
ATOM	5650	O	LEU	X	376	50.045	13.778	37.876	0.00	0.00
ATOM	5651	N	HIE	X	377	48.452	14.786	39.237	0.00	0.00
ATOM	5652	H	HIE	X	377	48.253	14.923	40.218	0.00	0.00
ATOM	5653	CA	HIE	X	377	47.833	15.681	38.219	0.00	0.00
ATOM	5654	HA	HIE	X	377	47.274	15.143	37.453	0.00	0.00
ATOM	5655	CB	HIE	X	377	46.729	16.472	39.002	0.00	0.00
ATOM	5656	HB2	HIE	X	377	46.069	15.788	39.536	0.00	0.00
ATOM	5657	HB3	HIE	X	377	47.230	17.113	39.727	0.00	0.00
ATOM	5658	CG	HIE	X	377	45.917	17.441	38.128	0.00	0.00
ATOM	5659	ND1	HIE	X	377	45.229	17.007	37.070	0.00	0.00
ATOM	5660	CE1	HIE	X	377	44.627	18.114	36.513	0.00	0.00
ATOM	5661	HE1	HIE	X	377	43.993	18.202	35.643	0.00	0.00
ATOM	5662	NE2	HIE	X	377	44.882	19.145	37.300	0.00	0.00
ATOM	5663	HE2	HIE	X	377	44.464	20.059	37.196	0.00	0.00
ATOM	5664	CD2	HIE	X	377	45.740	18.748	38.321	0.00	0.00
ATOM	5665	HD2	HIE	X	377	46.139	19.406	39.080	0.00	0.00
ATOM	5666	C	HIE	X	377	48.863	16.568	37.509	0.00	0.00
ATOM	5667	O	HIE	X	377	48.806	16.665	36.299	0.00	0.00
ATOM	5668	N	TYR	X	378	49.782	17.223	38.241	0.00	0.00
ATOM	5669	H	TYR	X	378	49.817	17.072	39.239	0.00	0.00
ATOM	5670	CA	TYR	X	378	50.624	18.184	37.659	0.00	0.00
ATOM	5671	HA	TYR	X	378	50.038	18.728	36.918	0.00	0.00
ATOM	5672	CB	TYR	X	378	50.956	19.231	38.702	0.00	0.00
ATOM	5673	HB2	TYR	X	378	50.866	18.782	39.691	0.00	0.00
ATOM	5674	HB3	TYR	X	378	51.978	19.565	38.524	0.00	0.00
ATOM	5675	CG	TYR	X	378	50.039	20.466	38.653	0.00	0.00
ATOM	5676	CD1	TYR	X	378	50.321	21.496	37.734	0.00	0.00
ATOM	5677	HD1	TYR	X	378	51.123	21.444	37.014	0.00	0.00
ATOM	5678	CE1	TYR	X	378	49.535	22.655	37.593	0.00	0.00
ATOM	5679	HE1	TYR	X	378	49.891	23.443	36.946	0.00	0.00
ATOM	5680	CZ	TYR	X	378	48.330	22.767	38.328	0.00	0.00
ATOM	5681	OH	TYR	X	378	47.442	23.808	38.212	0.00	0.00
ATOM	5682	HH	TYR	X	378	47.918	24.509	37.760	0.00	0.00
ATOM	5683	CE2	TYR	X	378	47.995	21.647	39.116	0.00	0.00
ATOM	5684	HE2	TYR	X	378	47.020	21.731	39.572	0.00	0.00
ATOM	5685	CD2	TYR	X	378	48.774	20.514	39.247	0.00	0.00
ATOM	5686	HD2	TYR	X	378	48.447	19.764	39.951	0.00	0.00
ATOM	5687	C	TYR	X	378	51.966	17.636	37.024	0.00	0.00
ATOM	5688	O	TYR	X	378	52.459	18.182	36.034	0.00	0.00
ATOM	5689	N	THR	X	379	52.498	16.522	37.582	0.00	0.00
ATOM	5690	H	THR	X	379	52.031	16.159	38.400	0.00	0.00
ATOM	5691	CA	THR	X	379	53.657	15.828	36.899	0.00	0.00
ATOM	5692	HA	THR	X	379	54.557	16.440	36.959	0.00	0.00
ATOM	5693	CB	THR	X	379	54.054	14.487	37.600	0.00	0.00
ATOM	5694	HB	THR	X	379	53.192	13.827	37.698	0.00	0.00
ATOM	5695	CG2	THR	X	379	55.235	13.765	36.948	0.00	0.00
ATOM	5696	HG21	THR	X	379	55.007	13.425	35.938	0.00	0.00
ATOM	5697	HG22	THR	X	379	56.068	14.465	36.895	0.00	0.00
ATOM	5698	HG23	THR	X	379	55.551	12.936	37.581	0.00	0.00
ATOM	5699	OG1	THR	X	379	54.636	14.787	38.823	0.00	0.00
ATOM	5700	HG1	THR	X	379	53.907	15.012	39.405	0.00	0.00
ATOM	5701	C	THR	X	379	53.340	15.605	35.429	0.00	0.00
ATOM	5702	O	THR	X	379	52.251	15.308	35.034	0.00	0.00
ATOM	5703	N	ASP	X	380	54.418	15.772	34.626	0.00	0.00
ATOM	5704	H	ASP	X	380	55.269	16.247	34.891	0.00	0.00
ATOM	5705	CA	ASP	X	380	54.451	15.371	33.247	0.00	0.00
ATOM	5706	HA	ASP	X	380	53.414	15.343	32.912	0.00	0.00
ATOM	5707	CB	ASP	X	380	55.299	16.324	32.453	0.00	0.00
ATOM	5708	HB2	ASP	X	380	55.123	17.337	32.812	0.00	0.00

ATOM	5709	HB3	ASP	X	380	56.344	16.094	32.660	0.00	0.00
ATOM	5710	CG	ASP	X	380	55.135	16.289	30.926	0.00	0.00
ATOM	5711	OD1	ASP	X	380	54.486	15.335	30.416	0.00	0.00
ATOM	5712	OD2	ASP	X	380	55.652	17.200	30.215	0.00	0.00
ATOM	5713	C	ASP	X	380	55.075	13.956	33.197	0.00	0.00
ATOM	5714	O	ASP	X	380	56.256	13.723	33.440	0.00	0.00
ATOM	5715	N	TRP	X	381	54.265	12.956	32.860	0.00	0.00
ATOM	5716	H	TRP	X	381	53.310	13.213	32.654	0.00	0.00
ATOM	5717	CA	TRP	X	381	54.673	11.570	32.624	0.00	0.00
ATOM	5718	HA	TRP	X	381	55.461	11.387	33.355	0.00	0.00
ATOM	5719	CB	TRP	X	381	53.484	10.677	32.977	0.00	0.00
ATOM	5720	HB2	TRP	X	381	52.754	11.017	32.242	0.00	0.00
ATOM	5721	HB3	TRP	X	381	53.679	9.611	32.859	0.00	0.00
ATOM	5722	CG	TRP	X	381	52.940	10.908	34.372	0.00	0.00
ATOM	5723	CD1	TRP	X	381	51.961	11.799	34.780	0.00	0.00
ATOM	5724	HD1	TRP	X	381	51.470	12.538	34.163	0.00	0.00
ATOM	5725	NE1	TRP	X	381	51.910	11.711	36.167	0.00	0.00
ATOM	5726	HE1	TRP	X	381	51.264	12.278	36.698	0.00	0.00
ATOM	5727	CE2	TRP	X	381	52.888	10.893	36.655	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	53.222	10.637	37.982	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	52.764	11.220	38.767	0.00	0.00
ATOM	5730	CH2	TRP	X	381	54.162	9.716	38.255	0.00	0.00
ATOM	5731	HH2	TRP	X	381	54.524	9.657	39.270	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	54.848	9.092	37.138	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	55.660	8.416	37.367	0.00	0.00
ATOM	5734	CE3	TRP	X	381	54.573	9.417	35.814	0.00	0.00
ATOM	5735	HE3	TRP	X	381	55.104	8.999	34.972	0.00	0.00
ATOM	5736	CD2	TRP	X	381	53.498	10.317	35.560	0.00	0.00
ATOM	5737	C	TRP	X	381	55.498	11.278	31.332	0.00	0.00
ATOM	5738	O	TRP	X	381	55.995	10.145	31.179	0.00	0.00
ATOM	5739	N	LEU	X	382	55.735	12.360	30.564	0.00	0.00
ATOM	5740	H	LEU	X	382	55.323	13.275	30.676	0.00	0.00
ATOM	5741	CA	LEU	X	382	56.752	12.330	29.549	0.00	0.00
ATOM	5742	HA	LEU	X	382	56.619	11.380	29.030	0.00	0.00
ATOM	5743	CB	LEU	X	382	56.456	13.363	28.412	0.00	0.00
ATOM	5744	HB2	LEU	X	382	55.371	13.467	28.399	0.00	0.00
ATOM	5745	HB3	LEU	X	382	56.713	14.375	28.725	0.00	0.00
ATOM	5746	CG	LEU	X	382	56.968	12.942	27.034	0.00	0.00
ATOM	5747	HG	LEU	X	382	58.037	12.734	27.091	0.00	0.00
ATOM	5748	CD1	LEU	X	382	56.282	11.725	26.424	0.00	0.00
ATOM	5749	HD11	LEU	X	382	56.493	11.704	25.354	0.00	0.00
ATOM	5750	HD12	LEU	X	382	56.672	10.736	26.664	0.00	0.00
ATOM	5751	HD13	LEU	X	382	55.201	11.698	26.564	0.00	0.00
ATOM	5752	CD2	LEU	X	382	56.745	14.177	26.091	0.00	0.00
ATOM	5753	HD21	LEU	X	382	57.057	15.134	26.510	0.00	0.00
ATOM	5754	HD22	LEU	X	382	57.386	14.121	25.212	0.00	0.00
ATOM	5755	HD23	LEU	X	382	55.717	14.188	25.728	0.00	0.00
ATOM	5756	C	LEU	X	382	58.158	12.341	30.099	0.00	0.00
ATOM	5757	O	LEU	X	382	59.121	11.815	29.546	0.00	0.00
ATOM	5758	N	HIE	X	383	58.316	12.960	31.282	0.00	0.00
ATOM	5759	H	HIE	X	383	57.462	13.386	31.612	0.00	0.00
ATOM	5760	CA	HIE	X	383	59.632	13.117	32.031	0.00	0.00
ATOM	5761	HA	HIE	X	383	60.330	12.310	31.805	0.00	0.00
ATOM	5762	CB	HIE	X	383	60.269	14.497	31.641	0.00	0.00
ATOM	5763	HB2	HIE	X	383	59.720	15.398	31.915	0.00	0.00
ATOM	5764	HB3	HIE	X	383	61.237	14.547	32.139	0.00	0.00
ATOM	5765	CG	HIE	X	383	60.670	14.582	30.205	0.00	0.00
ATOM	5766	ND1	HIE	X	383	61.969	14.506	29.729	0.00	0.00
ATOM	5767	CE1	HIE	X	383	61.867	14.407	28.366	0.00	0.00
ATOM	5768	HE1	HIE	X	383	62.712	14.200	27.726	0.00	0.00
ATOM	5769	NE2	HIE	X	383	60.594	14.565	28.016	0.00	0.00
ATOM	5770	HE2	HIE	X	383	60.360	14.620	27.035	0.00	0.00
ATOM	5771	CD2	HIE	X	383	59.825	14.660	29.099	0.00	0.00
ATOM	5772	HD2	HIE	X	383	58.749	14.747	29.085	0.00	0.00
ATOM	5773	C	HIE	X	383	59.449	13.094	33.597	0.00	0.00
ATOM	5774	O	HIE	X	383	59.805	14.033	34.276	0.00	0.00
ATOM	5775	N	PRO	X	384	58.924	12.065	34.209	0.00	0.00
ATOM	5776	CD	PRO	X	384	58.583	10.797	33.609	0.00	0.00
ATOM	5777	HD2	PRO	X	384	59.464	10.345	33.154	0.00	0.00
ATOM	5778	HD3	PRO	X	384	57.778	10.863	32.876	0.00	0.00

ATOM	5779	CG	PRO	X	384	58.106	9.942	34.751	0.00	0.00
ATOM	5780	HG2	PRO	X	384	58.832	9.415	35.370	0.00	0.00
ATOM	5781	HG3	PRO	X	384	57.426	9.208	34.317	0.00	0.00
ATOM	5782	CB	PRO	X	384	57.403	10.982	35.627	0.00	0.00
ATOM	5783	HB2	PRO	X	384	57.397	10.648	36.664	0.00	0.00
ATOM	5784	HB3	PRO	X	384	56.469	11.156	35.093	0.00	0.00
ATOM	5785	CA	PRO	X	384	58.265	12.231	35.495	0.00	0.00
ATOM	5786	HA	PRO	X	384	57.626	13.094	35.310	0.00	0.00
ATOM	5787	C	PRO	X	384	59.269	12.338	36.648	0.00	0.00
ATOM	5788	O	PRO	X	384	58.832	12.577	37.783	0.00	0.00
ATOM	5789	N	GLU	X	385	60.577	12.059	36.308	0.00	0.00
ATOM	5790	H	GLU	X	385	60.868	11.973	35.345	0.00	0.00
ATOM	5791	CA	GLU	X	385	61.699	12.137	37.179	0.00	0.00
ATOM	5792	HA	GLU	X	385	61.415	12.531	38.155	0.00	0.00
ATOM	5793	CB	GLU	X	385	62.237	10.693	37.381	0.00	0.00
ATOM	5794	HB2	GLU	X	385	62.633	10.175	36.508	0.00	0.00
ATOM	5795	HB3	GLU	X	385	63.085	10.842	38.050	0.00	0.00
ATOM	5796	CG	GLU	X	385	61.349	9.779	38.133	0.00	0.00
ATOM	5797	HG2	GLU	X	385	61.019	10.246	39.061	0.00	0.00
ATOM	5798	HG3	GLU	X	385	60.417	9.669	37.578	0.00	0.00
ATOM	5799	CD	GLU	X	385	61.998	8.419	38.417	0.00	0.00
ATOM	5800	OE1	GLU	X	385	63.239	8.336	38.647	0.00	0.00
ATOM	5801	OE2	GLU	X	385	61.275	7.418	38.346	0.00	0.00
ATOM	5802	C	GLU	X	385	62.738	13.216	36.774	0.00	0.00
ATOM	5803	O	GLU	X	385	63.688	13.294	37.551	0.00	0.00
ATOM	5804	N	ASP	X	386	62.707	13.920	35.629	0.00	0.00
ATOM	5805	H	ASP	X	386	61.937	13.781	34.991	0.00	0.00
ATOM	5806	CA	ASP	X	386	63.629	15.034	35.400	0.00	0.00
ATOM	5807	HA	ASP	X	386	64.629	14.599	35.412	0.00	0.00
ATOM	5808	CB	ASP	X	386	63.375	15.465	33.950	0.00	0.00
ATOM	5809	HB2	ASP	X	386	63.466	14.634	33.251	0.00	0.00
ATOM	5810	HB3	ASP	X	386	62.313	15.689	33.854	0.00	0.00
ATOM	5811	CG	ASP	X	386	64.267	16.681	33.521	0.00	0.00
ATOM	5812	OD1	ASP	X	386	63.706	17.640	32.957	0.00	0.00
ATOM	5813	OD2	ASP	X	386	65.424	16.826	33.913	0.00	0.00
ATOM	5814	C	ASP	X	386	63.589	16.224	36.369	0.00	0.00
ATOM	5815	O	ASP	X	386	62.576	16.995	36.284	0.00	0.00
ATOM	5816	N	PRO	X	387	64.539	16.452	37.236	0.00	0.00
ATOM	5817	CD	PRO	X	387	65.836	15.810	37.234	0.00	0.00
ATOM	5818	HD2	PRO	X	387	66.344	16.263	36.382	0.00	0.00
ATOM	5819	HD3	PRO	X	387	65.785	14.726	37.128	0.00	0.00
ATOM	5820	CG	PRO	X	387	66.594	16.053	38.526	0.00	0.00
ATOM	5821	HG2	PRO	X	387	67.671	15.992	38.375	0.00	0.00
ATOM	5822	HG3	PRO	X	387	66.287	15.385	39.331	0.00	0.00
ATOM	5823	CB	PRO	X	387	66.064	17.506	38.716	0.00	0.00
ATOM	5824	HB2	PRO	X	387	66.756	18.153	38.177	0.00	0.00
ATOM	5825	HB3	PRO	X	387	66.021	17.783	39.769	0.00	0.00
ATOM	5826	CA	PRO	X	387	64.651	17.621	38.129	0.00	0.00
ATOM	5827	HA	PRO	X	387	63.912	17.437	38.908	0.00	0.00
ATOM	5828	C	PRO	X	387	64.332	18.983	37.530	0.00	0.00
ATOM	5829	O	PRO	X	387	64.023	19.808	38.344	0.00	0.00
ATOM	5830	N	ALA	X	388	64.502	19.206	36.242	0.00	0.00
ATOM	5831	H	ALA	X	388	64.937	18.472	35.702	0.00	0.00
ATOM	5832	CA	ALA	X	388	64.289	20.518	35.588	0.00	0.00
ATOM	5833	HA	ALA	X	388	64.446	21.356	36.267	0.00	0.00
ATOM	5834	CB	ALA	X	388	65.241	20.613	34.395	0.00	0.00
ATOM	5835	HB1	ALA	X	388	65.219	21.586	33.903	0.00	0.00
ATOM	5836	HB2	ALA	X	388	66.285	20.467	34.671	0.00	0.00
ATOM	5837	HB3	ALA	X	388	64.987	19.865	33.644	0.00	0.00
ATOM	5838	C	ALA	X	388	62.820	20.603	35.143	0.00	0.00
ATOM	5839	O	ALA	X	388	62.176	21.599	35.507	0.00	0.00
ATOM	5840	N	ARG	X	389	62.243	19.541	34.671	0.00	0.00
ATOM	5841	H	ARG	X	389	62.737	18.703	34.398	0.00	0.00
ATOM	5842	CA	ARG	X	389	60.762	19.523	34.589	0.00	0.00
ATOM	5843	HA	ARG	X	389	60.503	20.365	33.947	0.00	0.00
ATOM	5844	CB	ARG	X	389	60.373	18.225	33.853	0.00	0.00
ATOM	5845	HB2	ARG	X	389	61.085	18.083	33.040	0.00	0.00
ATOM	5846	HB3	ARG	X	389	60.437	17.435	34.600	0.00	0.00
ATOM	5847	CG	ARG	X	389	59.048	18.201	33.149	0.00	0.00
ATOM	5848	HG2	ARG	X	389	58.745	17.208	32.816	0.00	0.00

ATOM	5849	HG3	ARG	X	389	58.289	18.440	33.894	0.00	0.00
ATOM	5850	CD	ARG	X	389	58.933	19.252	31.984	0.00	0.00
ATOM	5851	HD2	ARG	X	389	58.469	20.179	32.323	0.00	0.00
ATOM	5852	HD3	ARG	X	389	59.943	19.506	31.662	0.00	0.00
ATOM	5853	NE	ARG	X	389	58.226	18.720	30.831	0.00	0.00
ATOM	5854	HE	ARG	X	389	57.232	18.566	30.920	0.00	0.00
ATOM	5855	CZ	ARG	X	389	58.759	18.482	29.649	0.00	0.00
ATOM	5856	NH1	ARG	X	389	60.013	18.705	29.282	0.00	0.00
ATOM	5857	HH11	ARG	X	389	60.499	19.420	29.804	0.00	0.00
ATOM	5858	HH12	ARG	X	389	60.452	18.388	28.430	0.00	0.00
ATOM	5859	NH2	ARG	X	389	57.974	17.715	28.859	0.00	0.00
ATOM	5860	HH21	ARG	X	389	57.067	17.473	29.233	0.00	0.00
ATOM	5861	HH22	ARG	X	389	58.254	17.378	27.949	0.00	0.00
ATOM	5862	C	ARG	X	389	60.015	19.676	35.938	0.00	0.00
ATOM	5863	O	ARG	X	389	58.963	20.314	35.923	0.00	0.00
ATOM	5864	N	LEU	X	390	60.539	19.194	37.058	0.00	0.00
ATOM	5865	H	LEU	X	390	61.418	18.706	36.959	0.00	0.00
ATOM	5866	CA	LEU	X	390	59.778	19.147	38.323	0.00	0.00
ATOM	5867	HA	LEU	X	390	58.705	19.022	38.181	0.00	0.00
ATOM	5868	CB	LEU	X	390	60.467	18.088	39.218	0.00	0.00
ATOM	5869	HB2	LEU	X	390	61.535	18.203	39.402	0.00	0.00
ATOM	5870	HB3	LEU	X	390	60.071	18.147	40.232	0.00	0.00
ATOM	5871	CG	LEU	X	390	60.301	16.619	38.685	0.00	0.00
ATOM	5872	HG	LEU	X	390	60.642	16.553	37.652	0.00	0.00
ATOM	5873	CD1	LEU	X	390	61.150	15.638	39.515	0.00	0.00
ATOM	5874	HD11	LEU	X	390	60.878	15.636	40.570	0.00	0.00
ATOM	5875	HD12	LEU	X	390	61.172	14.650	39.055	0.00	0.00
ATOM	5876	HD13	LEU	X	390	62.184	15.981	39.564	0.00	0.00
ATOM	5877	CD2	LEU	X	390	58.787	16.279	38.708	0.00	0.00
ATOM	5878	HD21	LEU	X	390	58.481	16.170	39.748	0.00	0.00
ATOM	5879	HD22	LEU	X	390	58.246	16.982	38.075	0.00	0.00
ATOM	5880	HD23	LEU	X	390	58.713	15.334	38.169	0.00	0.00
ATOM	5881	C	LEU	X	390	59.854	20.495	38.996	0.00	0.00
ATOM	5882	O	LEU	X	390	58.742	20.958	39.327	0.00	0.00
ATOM	5883	N	ARG	X	391	60.899	21.270	38.876	0.00	0.00
ATOM	5884	H	ARG	X	391	61.723	20.825	38.498	0.00	0.00
ATOM	5885	CA	ARG	X	391	60.807	22.721	39.213	0.00	0.00
ATOM	5886	HA	ARG	X	391	60.316	22.758	40.185	0.00	0.00
ATOM	5887	CB	ARG	X	391	62.107	23.504	39.373	0.00	0.00
ATOM	5888	HB2	ARG	X	391	61.739	24.502	39.609	0.00	0.00
ATOM	5889	HB3	ARG	X	391	62.700	23.122	40.205	0.00	0.00
ATOM	5890	CG	ARG	X	391	63.116	23.257	38.210	0.00	0.00
ATOM	5891	HG2	ARG	X	391	64.080	22.903	38.574	0.00	0.00
ATOM	5892	HG3	ARG	X	391	62.754	22.441	37.585	0.00	0.00
ATOM	5893	CD	ARG	X	391	63.172	24.564	37.407	0.00	0.00
ATOM	5894	HD2	ARG	X	391	62.341	24.651	36.707	0.00	0.00
ATOM	5895	HD3	ARG	X	391	63.216	25.406	38.099	0.00	0.00
ATOM	5896	NE	ARG	X	391	64.473	24.793	36.822	0.00	0.00
ATOM	5897	HE	ARG	X	391	65.193	25.199	37.403	0.00	0.00
ATOM	5898	CZ	ARG	X	391	64.788	24.613	35.568	0.00	0.00
ATOM	5899	NH1	ARG	X	391	63.983	24.139	34.724	0.00	0.00
ATOM	5900	HH11	ARG	X	391	63.111	23.654	34.878	0.00	0.00
ATOM	5901	HH12	ARG	X	391	64.438	24.019	33.831	0.00	0.00
ATOM	5902	NH2	ARG	X	391	66.054	24.882	35.182	0.00	0.00
ATOM	5903	HH21	ARG	X	391	66.770	25.138	35.846	0.00	0.00
ATOM	5904	HH22	ARG	X	391	66.402	24.418	34.354	0.00	0.00
ATOM	5905	C	ARG	X	391	59.815	23.523	38.279	0.00	0.00
ATOM	5906	O	ARG	X	391	59.177	24.453	38.774	0.00	0.00
ATOM	5907	N	GLU	X	392	59.751	23.181	36.964	0.00	0.00
ATOM	5908	H	GLU	X	392	60.415	22.499	36.625	0.00	0.00
ATOM	5909	CA	GLU	X	392	58.783	23.795	36.058	0.00	0.00
ATOM	5910	HA	GLU	X	392	58.860	24.871	36.217	0.00	0.00
ATOM	5911	CB	GLU	X	392	59.041	23.473	34.572	0.00	0.00
ATOM	5912	HB2	GLU	X	392	59.143	22.391	34.495	0.00	0.00
ATOM	5913	HB3	GLU	X	392	58.233	23.806	33.920	0.00	0.00
ATOM	5914	CG	GLU	X	392	60.321	24.122	34.022	0.00	0.00
ATOM	5915	HG2	GLU	X	392	60.316	25.209	34.100	0.00	0.00
ATOM	5916	HG3	GLU	X	392	61.158	23.783	34.632	0.00	0.00
ATOM	5917	CD	GLU	X	392	60.479	23.635	32.577	0.00	0.00
ATOM	5918	OE1	GLU	X	392	61.482	23.001	32.238	0.00	0.00

ATOM	5919	OE2	GLU	X	392	59.594	23.993	31.703	0.00	0.00
ATOM	5920	C	GLU	X	392	57.314	23.465	36.378	0.00	0.00
ATOM	5921	O	GLU	X	392	56.518	24.326	36.097	0.00	0.00
ATOM	5922	N	ALA	X	393	57.056	22.320	37.021	0.00	0.00
ATOM	5923	H	ALA	X	393	57.815	21.682	37.211	0.00	0.00
ATOM	5924	CA	ALA	X	393	55.712	21.921	37.511	0.00	0.00
ATOM	5925	HA	ALA	X	393	55.034	22.101	36.677	0.00	0.00
ATOM	5926	CB	ALA	X	393	55.740	20.444	37.730	0.00	0.00
ATOM	5927	HB1	ALA	X	393	56.344	20.204	38.605	0.00	0.00
ATOM	5928	HB2	ALA	X	393	54.720	20.167	37.996	0.00	0.00
ATOM	5929	HB3	ALA	X	393	55.990	19.858	36.845	0.00	0.00
ATOM	5930	C	ALA	X	393	55.464	22.727	38.804	0.00	0.00
ATOM	5931	O	ALA	X	393	54.341	23.117	39.096	0.00	0.00
ATOM	5932	N	LEU	X	394	56.462	22.946	39.636	0.00	0.00
ATOM	5933	H	LEU	X	394	57.344	22.556	39.338	0.00	0.00
ATOM	5934	CA	LEU	X	394	56.375	24.008	40.689	0.00	0.00
ATOM	5935	HA	LEU	X	394	55.439	23.733	41.174	0.00	0.00
ATOM	5936	CB	LEU	X	394	57.435	23.772	41.763	0.00	0.00
ATOM	5937	HB2	LEU	X	394	57.530	22.710	41.988	0.00	0.00
ATOM	5938	HB3	LEU	X	394	58.403	24.121	41.403	0.00	0.00
ATOM	5939	CG	LEU	X	394	57.164	24.397	43.139	0.00	0.00
ATOM	5940	HG	LEU	X	394	56.895	25.440	42.969	0.00	0.00
ATOM	5941	CD1	LEU	X	394	55.888	23.828	43.868	0.00	0.00
ATOM	5942	HD11	LEU	X	394	55.728	24.382	44.794	0.00	0.00
ATOM	5943	HD12	LEU	X	394	55.028	23.903	43.203	0.00	0.00
ATOM	5944	HD13	LEU	X	394	56.054	22.767	44.051	0.00	0.00
ATOM	5945	CD2	LEU	X	394	58.366	24.246	44.145	0.00	0.00
ATOM	5946	HD21	LEU	X	394	58.605	23.215	44.407	0.00	0.00
ATOM	5947	HD22	LEU	X	394	59.204	24.721	43.634	0.00	0.00
ATOM	5948	HD23	LEU	X	394	58.098	24.721	45.088	0.00	0.00
ATOM	5949	C	LEU	X	394	56.154	25.472	40.276	0.00	0.00
ATOM	5950	O	LEU	X	394	55.312	26.118	40.852	0.00	0.00
ATOM	5951	N	SER	X	395	56.705	25.903	39.159	0.00	0.00
ATOM	5952	H	SER	X	395	57.552	25.415	38.905	0.00	0.00
ATOM	5953	CA	SER	X	395	56.317	27.274	38.630	0.00	0.00
ATOM	5954	HA	SER	X	395	56.279	28.087	39.354	0.00	0.00
ATOM	5955	CB	SER	X	395	57.232	27.632	37.484	0.00	0.00
ATOM	5956	HB2	SER	X	395	56.913	26.999	36.656	0.00	0.00
ATOM	5957	HB3	SER	X	395	57.125	28.684	37.219	0.00	0.00
ATOM	5958	OG	SER	X	395	58.586	27.396	37.754	0.00	0.00
ATOM	5959	HG	SER	X	395	58.958	27.627	36.900	0.00	0.00
ATOM	5960	C	SER	X	395	54.886	27.240	38.169	0.00	0.00
ATOM	5961	O	SER	X	395	54.138	28.157	38.279	0.00	0.00
ATOM	5962	N	ASP	X	396	54.421	26.146	37.586	0.00	0.00
ATOM	5963	H	ASP	X	396	55.090	25.412	37.403	0.00	0.00
ATOM	5964	CA	ASP	X	396	53.078	25.973	37.179	0.00	0.00
ATOM	5965	HA	ASP	X	396	52.755	26.746	36.482	0.00	0.00
ATOM	5966	CB	ASP	X	396	52.870	24.673	36.377	0.00	0.00
ATOM	5967	HB2	ASP	X	396	53.809	24.265	36.004	0.00	0.00
ATOM	5968	HB3	ASP	X	396	52.533	23.948	37.117	0.00	0.00
ATOM	5969	CG	ASP	X	396	51.892	24.784	35.158	0.00	0.00
ATOM	5970	OD1	ASP	X	396	51.707	25.817	34.515	0.00	0.00
ATOM	5971	OD2	ASP	X	396	51.343	23.709	34.826	0.00	0.00
ATOM	5972	C	ASP	X	396	52.129	26.030	38.338	0.00	0.00
ATOM	5973	O	ASP	X	396	51.185	26.825	38.387	0.00	0.00
ATOM	5974	N	VAL	X	397	52.397	25.301	39.432	0.00	0.00
ATOM	5975	H	VAL	X	397	53.177	24.660	39.378	0.00	0.00
ATOM	5976	CA	VAL	X	397	51.490	25.326	40.606	0.00	0.00
ATOM	5977	HA	VAL	X	397	50.457	25.276	40.261	0.00	0.00
ATOM	5978	CB	VAL	X	397	51.765	24.163	41.671	0.00	0.00
ATOM	5979	HB	VAL	X	397	52.825	24.123	41.924	0.00	0.00
ATOM	5980	CG1	VAL	X	397	50.859	24.265	42.871	0.00	0.00
ATOM	5981	HG11	VAL	X	397	49.801	24.209	42.615	0.00	0.00
ATOM	5982	HG12	VAL	X	397	51.179	23.470	43.545	0.00	0.00
ATOM	5983	HG13	VAL	X	397	50.947	25.104	43.561	0.00	0.00
ATOM	5984	CG2	VAL	X	397	51.576	22.793	41.119	0.00	0.00
ATOM	5985	HG21	VAL	X	397	52.248	22.631	40.277	0.00	0.00
ATOM	5986	HG22	VAL	X	397	51.786	22.055	41.893	0.00	0.00
ATOM	5987	HG23	VAL	X	397	50.605	22.629	40.651	0.00	0.00
ATOM	5988	C	VAL	X	397	51.565	26.687	41.336	0.00	0.00

ATOM	5989	O	VAL	X	397	50.542	27.178	41.769	0.00	0.00
ATOM	5990	N	VAL	X	398	52.669	27.414	41.395	0.00	0.00
ATOM	5991	H	VAL	X	398	53.538	27.000	41.090	0.00	0.00
ATOM	5992	CA	VAL	X	398	52.767	28.772	42.006	0.00	0.00
ATOM	5993	HA	VAL	X	398	52.226	28.783	42.952	0.00	0.00
ATOM	5994	CB	VAL	X	398	54.257	29.188	42.243	0.00	0.00
ATOM	5995	HB	VAL	X	398	54.772	28.995	41.303	0.00	0.00
ATOM	5996	CG1	VAL	X	398	54.504	30.535	42.920	0.00	0.00
ATOM	5997	HG11	VAL	X	398	55.551	30.837	42.901	0.00	0.00
ATOM	5998	HG12	VAL	X	398	54.006	31.273	42.291	0.00	0.00
ATOM	5999	HG13	VAL	X	398	54.066	30.543	43.919	0.00	0.00
ATOM	6000	CG2	VAL	X	398	54.956	28.205	43.187	0.00	0.00
ATOM	6001	HG21	VAL	X	398	54.661	28.231	44.236	0.00	0.00
ATOM	6002	HG22	VAL	X	398	54.829	27.153	42.929	0.00	0.00
ATOM	6003	HG23	VAL	X	398	55.991	28.522	43.060	0.00	0.00
ATOM	6004	C	VAL	X	398	52.075	29.778	41.044	0.00	0.00
ATOM	6005	O	VAL	X	398	51.605	30.760	41.540	0.00	0.00
ATOM	6006	N	GLY	X	399	52.001	29.569	39.765	0.00	0.00
ATOM	6007	H	GLY	X	399	52.262	28.661	39.407	0.00	0.00
ATOM	6008	CA	GLY	X	399	51.288	30.565	38.929	0.00	0.00
ATOM	6009	HA2	GLY	X	399	51.464	31.549	39.254	0.00	0.00
ATOM	6010	HA3	GLY	X	399	51.683	30.461	37.913	0.00	0.00
ATOM	6011	C	GLY	X	399	49.779	30.378	38.696	0.00	0.00
ATOM	6012	O	GLY	X	399	48.992	31.333	38.754	0.00	0.00
ATOM	6013	N	ASP	X	400	49.422	29.149	38.492	0.00	0.00
ATOM	6014	H	ASP	X	400	50.110	28.410	38.495	0.00	0.00
ATOM	6015	CA	ASP	X	400	47.978	28.818	38.367	0.00	0.00
ATOM	6016	HA	ASP	X	400	47.523	29.535	37.683	0.00	0.00
ATOM	6017	CB	ASP	X	400	47.802	27.307	37.964	0.00	0.00
ATOM	6018	HB2	ASP	X	400	48.291	26.650	38.684	0.00	0.00
ATOM	6019	HB3	ASP	X	400	46.742	27.125	38.145	0.00	0.00
ATOM	6020	CG	ASP	X	400	48.255	26.927	36.542	0.00	0.00
ATOM	6021	OD1	ASP	X	400	48.461	27.841	35.734	0.00	0.00
ATOM	6022	OD2	ASP	X	400	48.310	25.698	36.172	0.00	0.00
ATOM	6023	C	ASP	X	400	47.225	29.009	39.731	0.00	0.00
ATOM	6024	O	ASP	X	400	46.236	29.777	39.753	0.00	0.00
ATOM	6025	N	HIE	X	401	47.757	28.418	40.843	0.00	0.00
ATOM	6026	H	HIE	X	401	48.452	27.708	40.663	0.00	0.00
ATOM	6027	CA	HIE	X	401	47.022	28.499	42.130	0.00	0.00
ATOM	6028	HA	HIE	X	401	45.997	28.201	41.912	0.00	0.00
ATOM	6029	CB	HIE	X	401	47.618	27.578	43.152	0.00	0.00
ATOM	6030	HB2	HIE	X	401	47.662	26.540	42.822	0.00	0.00
ATOM	6031	HB3	HIE	X	401	48.609	27.945	43.420	0.00	0.00
ATOM	6032	CG	HIE	X	401	46.878	27.641	44.513	0.00	0.00
ATOM	6033	ND1	HIE	X	401	47.164	28.587	45.606	0.00	0.00
ATOM	6034	CE1	HIE	X	401	46.127	28.459	46.423	0.00	0.00
ATOM	6035	HE1	HIE	X	401	45.989	29.131	47.256	0.00	0.00
ATOM	6036	NE2	HIE	X	401	45.353	27.412	46.049	0.00	0.00
ATOM	6037	HE2	HIE	X	401	44.640	27.029	46.654	0.00	0.00
ATOM	6038	CD2	HIE	X	401	45.849	26.840	44.897	0.00	0.00
ATOM	6039	HD2	HIE	X	401	45.443	25.962	44.417	0.00	0.00
ATOM	6040	C	HIE	X	401	46.852	29.953	42.633	0.00	0.00
ATOM	6041	O	HIE	X	401	45.870	30.347	43.116	0.00	0.00
ATOM	6042	N	ASN	X	402	47.870	30.767	42.326	0.00	0.00
ATOM	6043	H	ASN	X	402	48.686	30.400	41.858	0.00	0.00
ATOM	6044	CA	ASN	X	402	47.966	32.097	42.992	0.00	0.00
ATOM	6045	HA	ASN	X	402	47.384	32.070	43.913	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.395	32.514	43.407	0.00	0.00
ATOM	6047	HB2	ASN	X	402	50.161	32.227	42.686	0.00	0.00
ATOM	6048	HB3	ASN	X	402	49.383	33.592	43.563	0.00	0.00
ATOM	6049	CG	ASN	X	402	49.520	31.873	44.755	0.00	0.00
ATOM	6050	OD1	ASN	X	402	49.411	32.494	45.773	0.00	0.00
ATOM	6051	ND2	ASN	X	402	49.899	30.667	44.806	0.00	0.00
ATOM	6052	HD21	ASN	X	402	49.997	30.319	45.749	0.00	0.00
ATOM	6053	HD22	ASN	X	402	50.389	30.261	44.022	0.00	0.00
ATOM	6054	C	ASN	X	402	47.479	33.232	42.088	0.00	0.00
ATOM	6055	O	ASN	X	402	46.958	34.223	42.605	0.00	0.00
ATOM	6056	N	VAL	X	403	47.620	33.089	40.751	0.00	0.00
ATOM	6057	H	VAL	X	403	48.071	32.291	40.326	0.00	0.00
ATOM	6058	CA	VAL	X	403	47.346	34.218	39.825	0.00	0.00

ATOM	6059	HA	VAL	X	403	46.743	34.951	40.362	0.00	0.00
ATOM	6060	CB	VAL	X	403	48.635	34.963	39.282	0.00	0.00
ATOM	6061	HB	VAL	X	403	49.047	34.509	38.380	0.00	0.00
ATOM	6062	CG1	VAL	X	403	48.289	36.351	38.789	0.00	0.00
ATOM	6063	HG11	VAL	X	403	47.948	37.021	39.578	0.00	0.00
ATOM	6064	HG12	VAL	X	403	49.091	36.825	38.221	0.00	0.00
ATOM	6065	HG13	VAL	X	403	47.528	36.231	38.018	0.00	0.00
ATOM	6066	CG2	VAL	X	403	49.719	35.176	40.360	0.00	0.00
ATOM	6067	HG21	VAL	X	403	50.087	34.176	40.591	0.00	0.00
ATOM	6068	HG22	VAL	X	403	50.521	35.846	40.049	0.00	0.00
ATOM	6069	HG23	VAL	X	403	49.226	35.631	41.218	0.00	0.00
ATOM	6070	C	VAL	X	403	46.479	33.774	38.663	0.00	0.00
ATOM	6071	O	VAL	X	403	45.311	34.184	38.642	0.00	0.00
ATOM	6072	N	VAL	X	404	46.960	32.903	37.749	0.00	0.00
ATOM	6073	H	VAL	X	404	47.758	32.331	37.986	0.00	0.00
ATOM	6074	CA	VAL	X	404	46.259	32.462	36.537	0.00	0.00
ATOM	6075	HA	VAL	X	404	46.251	33.361	35.921	0.00	0.00
ATOM	6076	CB	VAL	X	404	46.943	31.387	35.677	0.00	0.00
ATOM	6077	HB	VAL	X	404	46.760	30.401	36.104	0.00	0.00
ATOM	6078	CG1	VAL	X	404	46.203	31.173	34.367	0.00	0.00
ATOM	6079	HG11	VAL	X	404	45.969	32.148	33.941	0.00	0.00
ATOM	6080	HG12	VAL	X	404	46.808	30.614	33.652	0.00	0.00
ATOM	6081	HG13	VAL	X	404	45.253	30.650	34.477	0.00	0.00
ATOM	6082	CG2	VAL	X	404	48.330	31.726	35.328	0.00	0.00
ATOM	6083	HG21	VAL	X	404	48.823	30.849	34.909	0.00	0.00
ATOM	6084	HG22	VAL	X	404	48.440	32.525	34.596	0.00	0.00
ATOM	6085	HG23	VAL	X	404	48.863	31.939	36.255	0.00	0.00
ATOM	6086	C	VAL	X	404	44.817	31.978	36.768	0.00	0.00
ATOM	6087	O	VAL	X	404	43.869	32.549	36.214	0.00	0.00
ATOM	6088	N	CYX	X	405	44.589	31.063	37.681	0.00	0.00
ATOM	6089	H	CYX	X	405	45.417	30.689	38.121	0.00	0.00
ATOM	6090	CA	CYX	X	405	43.235	30.615	38.043	0.00	0.00
ATOM	6091	HA	CYX	X	405	42.728	30.431	37.095	0.00	0.00
ATOM	6092	CB	CYX	X	405	43.165	29.219	38.789	0.00	0.00
ATOM	6093	HB2	CYX	X	405	43.785	29.242	39.685	0.00	0.00
ATOM	6094	HB3	CYX	X	405	42.154	29.129	39.186	0.00	0.00
ATOM	6095	SG	CYX	X	405	43.610	27.718	37.849	0.00	0.00
ATOM	6096	C	CYX	X	405	42.356	31.700	38.658	0.00	0.00
ATOM	6097	O	CYX	X	405	41.250	31.855	38.129	0.00	0.00
ATOM	6098	N	PRO	X	406	42.790	32.388	39.703	0.00	0.00
ATOM	6099	CD	PRO	X	406	43.833	32.031	40.672	0.00	0.00
ATOM	6100	HD2	PRO	X	406	44.840	32.104	40.260	0.00	0.00
ATOM	6101	HD3	PRO	X	406	43.655	31.057	41.127	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.774	33.039	41.811	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.775	33.341	42.119	0.00	0.00
ATOM	6104	HG3	PRO	X	406	43.346	32.558	42.690	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.985	34.225	41.183	0.00	0.00
ATOM	6106	HB2	PRO	X	406	43.679	34.980	40.815	0.00	0.00
ATOM	6107	HB3	PRO	X	406	42.431	34.620	42.035	0.00	0.00
ATOM	6108	CA	PRO	X	406	42.095	33.636	40.148	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.223	33.315	40.717	0.00	0.00
ATOM	6110	C	PRO	X	406	41.694	34.615	39.014	0.00	0.00
ATOM	6111	O	PRO	X	406	40.523	35.033	39.059	0.00	0.00
ATOM	6112	N	VAL	X	407	42.555	34.945	38.027	0.00	0.00
ATOM	6113	H	VAL	X	407	43.526	34.668	38.025	0.00	0.00
ATOM	6114	CA	VAL	X	407	42.075	35.927	36.994	0.00	0.00
ATOM	6115	HA	VAL	X	407	41.599	36.793	37.454	0.00	0.00
ATOM	6116	CB	VAL	X	407	43.280	36.436	36.120	0.00	0.00
ATOM	6117	HB	VAL	X	407	43.957	35.615	35.883	0.00	0.00
ATOM	6118	CG1	VAL	X	407	42.790	37.248	34.906	0.00	0.00
ATOM	6119	HG11	VAL	X	407	43.646	37.707	34.412	0.00	0.00
ATOM	6120	HG12	VAL	X	407	42.412	36.528	34.180	0.00	0.00
ATOM	6121	HG13	VAL	X	407	42.008	37.953	35.190	0.00	0.00
ATOM	6122	CG2	VAL	X	407	44.173	37.355	37.011	0.00	0.00
ATOM	6123	HG21	VAL	X	407	44.928	37.854	36.403	0.00	0.00
ATOM	6124	HG22	VAL	X	407	43.573	38.197	37.357	0.00	0.00
ATOM	6125	HG23	VAL	X	407	44.516	36.759	37.856	0.00	0.00
ATOM	6126	C	VAL	X	407	40.994	35.161	36.075	0.00	0.00
ATOM	6127	O	VAL	X	407	39.962	35.796	35.738	0.00	0.00
ATOM	6128	N	ALA	X	408	41.185	33.905	35.684	0.00	0.00

ATOM	6129	H	ALA	X	408	42.083	33.481	35.869	0.00	0.00
ATOM	6130	CA	ALA	X	408	40.163	33.102	34.947	0.00	0.00
ATOM	6131	HA	ALA	X	408	40.063	33.573	33.969	0.00	0.00
ATOM	6132	CB	ALA	X	408	40.711	31.621	34.871	0.00	0.00
ATOM	6133	HB1	ALA	X	408	39.962	30.999	34.381	0.00	0.00
ATOM	6134	HB2	ALA	X	408	41.662	31.551	34.343	0.00	0.00
ATOM	6135	HB3	ALA	X	408	40.835	31.361	35.922	0.00	0.00
ATOM	6136	C	ALA	X	408	38.782	33.086	35.632	0.00	0.00
ATOM	6137	O	ALA	X	408	37.720	33.223	34.934	0.00	0.00
ATOM	6138	N	GLN	X	409	38.719	32.998	36.981	0.00	0.00
ATOM	6139	H	GLN	X	409	39.629	32.868	37.400	0.00	0.00
ATOM	6140	CA	GLN	X	409	37.481	33.081	37.739	0.00	0.00
ATOM	6141	HA	GLN	X	409	36.690	32.635	37.136	0.00	0.00
ATOM	6142	CB	GLN	X	409	37.681	32.371	39.029	0.00	0.00
ATOM	6143	HB2	GLN	X	409	38.169	31.416	38.837	0.00	0.00
ATOM	6144	HB3	GLN	X	409	38.320	33.001	39.648	0.00	0.00
ATOM	6145	CG	GLN	X	409	36.465	32.012	39.875	0.00	0.00
ATOM	6146	HG2	GLN	X	409	36.725	31.384	40.727	0.00	0.00
ATOM	6147	HG3	GLN	X	409	36.000	32.908	40.285	0.00	0.00
ATOM	6148	CD	GLN	X	409	35.401	31.305	39.004	0.00	0.00
ATOM	6149	OE1	GLN	X	409	35.294	30.083	38.996	0.00	0.00
ATOM	6150	NE2	GLN	X	409	34.496	32.086	38.305	0.00	0.00
ATOM	6151	HE21	GLN	X	409	33.676	31.658	37.900	0.00	0.00
ATOM	6152	HE22	GLN	X	409	34.541	33.082	38.146	0.00	0.00
ATOM	6153	C	GLN	X	409	36.957	34.552	38.031	0.00	0.00
ATOM	6154	O	GLN	X	409	35.743	34.718	37.943	0.00	0.00
ATOM	6155	N	LEU	X	410	37.797	35.576	38.205	0.00	0.00
ATOM	6156	H	LEU	X	410	38.791	35.401	38.231	0.00	0.00
ATOM	6157	CA	LEU	X	410	37.396	36.989	38.116	0.00	0.00
ATOM	6158	HA	LEU	X	410	36.808	37.226	39.003	0.00	0.00
ATOM	6159	CB	LEU	X	410	38.699	37.851	38.179	0.00	0.00
ATOM	6160	HB2	LEU	X	410	39.212	37.884	39.140	0.00	0.00
ATOM	6161	HB3	LEU	X	410	39.438	37.418	37.505	0.00	0.00
ATOM	6162	CG	LEU	X	410	38.548	39.306	37.747	0.00	0.00
ATOM	6163	HG	LEU	X	410	37.889	39.412	36.885	0.00	0.00
ATOM	6164	CD1	LEU	X	410	38.046	40.289	38.834	0.00	0.00
ATOM	6165	HD11	LEU	X	410	36.959	40.251	38.907	0.00	0.00
ATOM	6166	HD12	LEU	X	410	38.342	40.046	39.854	0.00	0.00
ATOM	6167	HD13	LEU	X	410	38.253	41.335	38.605	0.00	0.00
ATOM	6168	CD2	LEU	X	410	40.043	39.741	37.387	0.00	0.00
ATOM	6169	HD21	LEU	X	410	40.413	39.077	36.606	0.00	0.00
ATOM	6170	HD22	LEU	X	410	40.097	40.746	36.967	0.00	0.00
ATOM	6171	HD23	LEU	X	410	40.691	39.736	38.264	0.00	0.00
ATOM	6172	C	LEU	X	410	36.525	37.186	36.901	0.00	0.00
ATOM	6173	O	LEU	X	410	35.443	37.741	37.070	0.00	0.00
ATOM	6174	N	ALA	X	411	37.072	36.795	35.751	0.00	0.00
ATOM	6175	H	ALA	X	411	37.985	36.363	35.750	0.00	0.00
ATOM	6176	CA	ALA	X	411	36.434	37.109	34.462	0.00	0.00
ATOM	6177	HA	ALA	X	411	36.216	38.171	34.567	0.00	0.00
ATOM	6178	CB	ALA	X	411	37.355	36.654	33.386	0.00	0.00
ATOM	6179	HB1	ALA	X	411	38.221	37.303	33.250	0.00	0.00
ATOM	6180	HB2	ALA	X	411	37.645	35.623	33.586	0.00	0.00
ATOM	6181	HB3	ALA	X	411	36.781	36.708	32.461	0.00	0.00
ATOM	6182	C	ALA	X	411	35.068	36.421	34.286	0.00	0.00
ATOM	6183	O	ALA	X	411	34.027	37.038	34.005	0.00	0.00
ATOM	6184	N	GLY	X	412	34.959	35.067	34.628	0.00	0.00
ATOM	6185	H	GLY	X	412	35.727	34.504	34.964	0.00	0.00
ATOM	6186	CA	GLY	X	412	33.675	34.316	34.465	0.00	0.00
ATOM	6187	HA2	GLY	X	412	33.250	34.451	33.452	0.00	0.00
ATOM	6188	HA3	GLY	X	412	33.646	33.321	34.597	0.00	0.00
ATOM	6189	C	GLY	X	412	32.548	34.878	35.358	0.00	0.00
ATOM	6190	O	GLY	X	412	31.385	35.027	34.932	0.00	0.00
ATOM	6191	N	ARG	X	413	33.000	35.306	36.561	0.00	0.00
ATOM	6192	H	ARG	X	413	33.942	35.126	36.877	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.072	35.952	37.488	0.00	0.00
ATOM	6194	HA	ARG	X	413	31.311	35.182	37.618	0.00	0.00
ATOM	6195	CB	ARG	X	413	32.675	36.205	38.896	0.00	0.00
ATOM	6196	HB2	ARG	X	413	33.634	36.701	38.750	0.00	0.00
ATOM	6197	HB3	ARG	X	413	32.034	36.930	39.397	0.00	0.00
ATOM	6198	CG	ARG	X	413	32.850	34.973	39.781	0.00	0.00

ATOM	6199	HG2	ARG	X	413	33.427	34.202	39.269	0.00	0.00
ATOM	6200	HG3	ARG	X	413	33.500	35.276	40.602	0.00	0.00
ATOM	6201	CD	ARG	X	413	31.514	34.499	40.425	0.00	0.00
ATOM	6202	HD2	ARG	X	413	31.265	35.348	41.063	0.00	0.00
ATOM	6203	HD3	ARG	X	413	30.715	34.364	39.696	0.00	0.00
ATOM	6204	NE	ARG	X	413	31.688	33.360	41.328	0.00	0.00
ATOM	6205	HE	ARG	X	413	31.856	33.624	42.288	0.00	0.00
ATOM	6206	CZ	ARG	X	413	31.720	32.067	40.997	0.00	0.00
ATOM	6207	NH1	ARG	X	413	31.280	31.667	39.838	0.00	0.00
ATOM	6208	HH11	ARG	X	413	30.957	32.336	39.153	0.00	0.00
ATOM	6209	HH12	ARG	X	413	31.525	30.716	39.603	0.00	0.00
ATOM	6210	NH2	ARG	X	413	32.211	31.155	41.826	0.00	0.00
ATOM	6211	HH21	ARG	X	413	32.561	31.405	42.739	0.00	0.00
ATOM	6212	HH22	ARG	X	413	32.238	30.215	41.456	0.00	0.00
ATOM	6213	C	ARG	X	413	31.503	37.311	36.948	0.00	0.00
ATOM	6214	O	ARG	X	413	30.287	37.618	37.061	0.00	0.00
ATOM	6215	N	LEU	X	414	32.418	38.112	36.427	0.00	0.00
ATOM	6216	H	LEU	X	414	33.371	37.848	36.632	0.00	0.00
ATOM	6217	CA	LEU	X	414	32.079	39.413	35.860	0.00	0.00
ATOM	6218	HA	LEU	X	414	31.406	39.953	36.527	0.00	0.00
ATOM	6219	CB	LEU	X	414	33.342	40.251	35.719	0.00	0.00
ATOM	6220	HB2	LEU	X	414	34.210	39.645	35.458	0.00	0.00
ATOM	6221	HB3	LEU	X	414	33.163	40.999	34.947	0.00	0.00
ATOM	6222	CG	LEU	X	414	33.545	41.143	36.873	0.00	0.00
ATOM	6223	HG	LEU	X	414	34.534	41.571	36.708	0.00	0.00
ATOM	6224	CD1	LEU	X	414	32.552	42.278	36.885	0.00	0.00
ATOM	6225	HD11	LEU	X	414	31.583	41.921	36.535	0.00	0.00
ATOM	6226	HD12	LEU	X	414	32.441	42.633	37.909	0.00	0.00
ATOM	6227	HD13	LEU	X	414	32.971	43.056	36.248	0.00	0.00
ATOM	6228	CD2	LEU	X	414	33.549	40.547	38.310	0.00	0.00
ATOM	6229	HD21	LEU	X	414	33.686	41.339	39.046	0.00	0.00
ATOM	6230	HD22	LEU	X	414	32.621	40.003	38.486	0.00	0.00
ATOM	6231	HD23	LEU	X	414	34.366	39.828	38.377	0.00	0.00
ATOM	6232	C	LEU	X	414	31.126	39.349	34.701	0.00	0.00
ATOM	6233	O	LEU	X	414	30.194	40.145	34.708	0.00	0.00
ATOM	6234	N	ALA	X	415	31.409	38.455	33.764	0.00	0.00
ATOM	6235	H	ALA	X	415	32.319	38.017	33.739	0.00	0.00
ATOM	6236	CA	ALA	X	415	30.467	38.217	32.627	0.00	0.00
ATOM	6237	HA	ALA	X	415	30.324	39.147	32.078	0.00	0.00
ATOM	6238	CB	ALA	X	415	31.253	37.237	31.665	0.00	0.00
ATOM	6239	HB1	ALA	X	415	32.096	37.778	31.234	0.00	0.00
ATOM	6240	HB2	ALA	X	415	31.714	36.394	32.179	0.00	0.00
ATOM	6241	HB3	ALA	X	415	30.613	36.947	30.831	0.00	0.00
ATOM	6242	C	ALA	X	415	29.117	37.674	33.042	0.00	0.00
ATOM	6243	O	ALA	X	415	28.140	38.066	32.402	0.00	0.00
ATOM	6244	N	ALA	X	416	29.022	36.731	33.978	0.00	0.00
ATOM	6245	H	ALA	X	416	29.853	36.448	34.476	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.744	36.139	34.424	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.239	35.675	33.576	0.00	0.00
ATOM	6248	CB	ALA	X	416	28.097	35.020	35.449	0.00	0.00
ATOM	6249	HB1	ALA	X	416	28.675	35.571	36.191	0.00	0.00
ATOM	6250	HB2	ALA	X	416	27.229	34.527	35.886	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.833	34.316	35.059	0.00	0.00
ATOM	6252	C	ALA	X	416	26.780	37.192	35.027	0.00	0.00
ATOM	6253	O	ALA	X	416	25.569	37.153	34.764	0.00	0.00
ATOM	6254	N	GLN	X	417	27.360	38.039	35.814	0.00	0.00
ATOM	6255	H	GLN	X	417	28.352	38.013	36.000	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.605	38.997	36.636	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.607	38.642	36.893	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.442	39.140	37.898	0.00	0.00
ATOM	6259	HB2	GLN	X	417	28.490	39.359	37.695	0.00	0.00
ATOM	6260	HB3	GLN	X	417	27.128	40.001	38.488	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.317	37.819	38.697	0.00	0.00
ATOM	6262	HG2	GLN	X	417	26.298	37.901	39.075	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.398	37.000	37.983	0.00	0.00
ATOM	6264	CD	GLN	X	417	28.285	37.390	39.840	0.00	0.00
ATOM	6265	OE1	GLN	X	417	28.703	36.247	39.788	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.571	38.216	40.784	0.00	0.00
ATOM	6267	HE21	GLN	X	417	29.056	37.879	41.604	0.00	0.00
ATOM	6268	HE22	GLN	X	417	28.247	39.164	40.656	0.00	0.00

ATOM	6269	C	GLN	X	417	26.404	40.358	35.923	0.00	0.00
ATOM	6270	O	GLN	X	417	25.985	41.353	36.596	0.00	0.00
ATOM	6271	N	GLY	X	418	26.571	40.451	34.630	0.00	0.00
ATOM	6272	H	GLY	X	418	26.989	39.636	34.203	0.00	0.00
ATOM	6273	CA	GLY	X	418	26.153	41.564	33.763	0.00	0.00
ATOM	6274	HA2	GLY	X	418	25.726	41.197	32.890	0.00	0.00
ATOM	6275	HA3	GLY	X	418	25.541	42.252	34.326	0.00	0.00
ATOM	6276	C	GLY	X	418	27.289	42.489	33.192	0.00	0.00
ATOM	6277	O	GLY	X	418	26.910	43.448	32.555	0.00	0.00
ATOM	6278	N	ALA	X	419	28.563	42.235	33.364	0.00	0.00
ATOM	6279	H	ALA	X	419	28.788	41.388	33.865	0.00	0.00
ATOM	6280	CA	ALA	X	419	29.698	43.099	32.908	0.00	0.00
ATOM	6281	HA	ALA	X	419	29.317	44.091	32.666	0.00	0.00
ATOM	6282	CB	ALA	X	419	30.726	43.202	34.006	0.00	0.00
ATOM	6283	HB1	ALA	X	419	31.408	44.005	33.725	0.00	0.00
ATOM	6284	HB2	ALA	X	419	30.213	43.368	34.953	0.00	0.00
ATOM	6285	HB3	ALA	X	419	31.291	42.281	34.152	0.00	0.00
ATOM	6286	C	ALA	X	419	30.291	42.562	31.561	0.00	0.00
ATOM	6287	O	ALA	X	419	30.354	41.345	31.347	0.00	0.00
ATOM	6288	N	ARG	X	420	30.706	43.492	30.662	0.00	0.00
ATOM	6289	H	ARG	X	420	30.668	44.427	31.042	0.00	0.00
ATOM	6290	CA	ARG	X	420	31.417	43.327	29.413	0.00	0.00
ATOM	6291	HA	ARG	X	420	30.953	42.456	28.949	0.00	0.00
ATOM	6292	CB	ARG	X	420	31.051	44.464	28.506	0.00	0.00
ATOM	6293	HB2	ARG	X	420	29.962	44.433	28.465	0.00	0.00
ATOM	6294	HB3	ARG	X	420	31.338	45.415	28.954	0.00	0.00
ATOM	6295	CG	ARG	X	420	31.622	44.302	27.091	0.00	0.00
ATOM	6296	HG2	ARG	X	420	32.711	44.268	27.048	0.00	0.00
ATOM	6297	HG3	ARG	X	420	31.358	43.301	26.749	0.00	0.00
ATOM	6298	CD	ARG	X	420	30.974	45.189	26.060	0.00	0.00
ATOM	6299	HD2	ARG	X	420	29.923	44.929	25.941	0.00	0.00
ATOM	6300	HD3	ARG	X	420	31.016	46.235	26.367	0.00	0.00
ATOM	6301	NE	ARG	X	420	31.578	45.154	24.768	0.00	0.00
ATOM	6302	HE	ARG	X	420	32.369	45.729	24.515	0.00	0.00
ATOM	6303	CZ	ARG	X	420	31.147	44.487	23.743	0.00	0.00
ATOM	6304	NH1	ARG	X	420	30.156	43.577	23.896	0.00	0.00
ATOM	6305	HH11	ARG	X	420	29.843	43.367	24.833	0.00	0.00
ATOM	6306	HH12	ARG	X	420	29.694	43.225	23.070	0.00	0.00
ATOM	6307	NH2	ARG	X	420	31.649	44.687	22.571	0.00	0.00
ATOM	6308	HH21	ARG	X	420	32.351	45.413	22.553	0.00	0.00
ATOM	6309	HH22	ARG	X	420	31.345	44.026	21.871	0.00	0.00
ATOM	6310	C	ARG	X	420	32.934	43.169	29.791	0.00	0.00
ATOM	6311	O	ARG	X	420	33.504	44.103	30.376	0.00	0.00
ATOM	6312	N	VAL	X	421	33.514	41.953	29.506	0.00	0.00
ATOM	6313	H	VAL	X	421	32.952	41.240	29.063	0.00	0.00
ATOM	6314	CA	VAL	X	421	34.946	41.558	29.947	0.00	0.00
ATOM	6315	HA	VAL	X	421	35.390	42.347	30.554	0.00	0.00
ATOM	6316	CB	VAL	X	421	34.845	40.279	30.865	0.00	0.00
ATOM	6317	HB	VAL	X	421	34.260	39.495	30.384	0.00	0.00
ATOM	6318	CG1	VAL	X	421	36.211	39.777	31.166	0.00	0.00
ATOM	6319	HG11	VAL	X	421	36.903	40.464	31.654	0.00	0.00
ATOM	6320	HG12	VAL	X	421	36.035	38.933	31.833	0.00	0.00
ATOM	6321	HG13	VAL	X	421	36.747	39.466	30.269	0.00	0.00
ATOM	6322	CG2	VAL	X	421	34.045	40.562	32.175	0.00	0.00
ATOM	6323	HG21	VAL	X	421	33.228	41.231	31.906	0.00	0.00
ATOM	6324	HG22	VAL	X	421	33.569	39.653	32.546	0.00	0.00
ATOM	6325	HG23	VAL	X	421	34.662	40.981	32.971	0.00	0.00
ATOM	6326	C	VAL	X	421	35.777	41.355	28.684	0.00	0.00
ATOM	6327	O	VAL	X	421	35.298	40.800	27.663	0.00	0.00
ATOM	6328	N	TYR	X	422	37.067	41.692	28.703	0.00	0.00
ATOM	6329	H	TYR	X	422	37.335	42.084	29.594	0.00	0.00
ATOM	6330	CA	TYR	X	422	38.079	41.551	27.602	0.00	0.00
ATOM	6331	HA	TYR	X	422	37.725	40.851	26.846	0.00	0.00
ATOM	6332	CB	TYR	X	422	38.474	42.898	26.975	0.00	0.00
ATOM	6333	HB2	TYR	X	422	38.603	43.562	27.829	0.00	0.00
ATOM	6334	HB3	TYR	X	422	39.443	42.923	26.477	0.00	0.00
ATOM	6335	CG	TYR	X	422	37.413	43.367	26.009	0.00	0.00
ATOM	6336	CD1	TYR	X	422	37.567	42.892	24.656	0.00	0.00
ATOM	6337	HD1	TYR	X	422	38.348	42.184	24.419	0.00	0.00
ATOM	6338	CE1	TYR	X	422	36.543	43.167	23.717	0.00	0.00

ATOM	6339	HE1	TYR	X	422	36.687	42.875	22.687	0.00	0.00
ATOM	6340	CZ	TYR	X	422	35.521	44.009	24.053	0.00	0.00
ATOM	6341	OH	TYR	X	422	34.573	44.152	23.097	0.00	0.00
ATOM	6342	HH	TYR	X	422	34.735	43.790	22.223	0.00	0.00
ATOM	6343	CE2	TYR	X	422	35.379	44.500	25.403	0.00	0.00
ATOM	6344	HE2	TYR	X	422	34.573	45.200	25.564	0.00	0.00
ATOM	6345	CD2	TYR	X	422	36.276	44.088	26.378	0.00	0.00
ATOM	6346	HD2	TYR	X	422	36.236	44.354	27.424	0.00	0.00
ATOM	6347	C	TYR	X	422	39.329	40.882	28.249	0.00	0.00
ATOM	6348	O	TYR	X	422	39.910	41.458	29.117	0.00	0.00
ATOM	6349	N	ALA	X	423	39.742	39.702	27.825	0.00	0.00
ATOM	6350	H	ALA	X	423	39.235	39.295	27.052	0.00	0.00
ATOM	6351	CA	ALA	X	423	40.778	38.807	28.312	0.00	0.00
ATOM	6352	HA	ALA	X	423	41.150	39.299	29.211	0.00	0.00
ATOM	6353	CB	ALA	X	423	40.236	37.461	28.834	0.00	0.00
ATOM	6354	HB1	ALA	X	423	39.969	36.876	27.953	0.00	0.00
ATOM	6355	HB2	ALA	X	423	40.961	36.871	29.394	0.00	0.00
ATOM	6356	HB3	ALA	X	423	39.337	37.581	29.439	0.00	0.00
ATOM	6357	C	ALA	X	423	41.888	38.600	27.296	0.00	0.00
ATOM	6358	O	ALA	X	423	41.740	38.463	26.130	0.00	0.00
ATOM	6359	N	TYR	X	424	43.093	38.451	27.816	0.00	0.00
ATOM	6360	H	TYR	X	424	43.099	38.465	28.826	0.00	0.00
ATOM	6361	CA	TYR	X	424	44.388	38.195	27.166	0.00	0.00
ATOM	6362	HA	TYR	X	424	44.148	37.614	26.275	0.00	0.00
ATOM	6363	CB	TYR	X	424	45.086	39.420	26.689	0.00	0.00
ATOM	6364	HB2	TYR	X	424	45.854	39.185	25.952	0.00	0.00
ATOM	6365	HB3	TYR	X	424	44.393	40.061	26.145	0.00	0.00
ATOM	6366	CG	TYR	X	424	45.810	40.238	27.736	0.00	0.00
ATOM	6367	CD1	TYR	X	424	47.134	39.893	28.071	0.00	0.00
ATOM	6368	HD1	TYR	X	424	47.549	39.065	27.517	0.00	0.00
ATOM	6369	CE1	TYR	X	424	47.822	40.623	29.081	0.00	0.00
ATOM	6370	HE1	TYR	X	424	48.854	40.372	29.280	0.00	0.00
ATOM	6371	CZ	TYR	X	424	47.213	41.673	29.696	0.00	0.00
ATOM	6372	OH	TYR	X	424	47.813	42.551	30.542	0.00	0.00
ATOM	6373	HH	TYR	X	424	48.764	42.452	30.621	0.00	0.00
ATOM	6374	CE2	TYR	X	424	45.910	41.992	29.346	0.00	0.00
ATOM	6375	HE2	TYR	X	424	45.474	42.850	29.835	0.00	0.00
ATOM	6376	CD2	TYR	X	424	45.156	41.297	28.372	0.00	0.00
ATOM	6377	HD2	TYR	X	424	44.121	41.523	28.160	0.00	0.00
ATOM	6378	C	TYR	X	424	45.417	37.352	27.990	0.00	0.00
ATOM	6379	O	TYR	X	424	45.535	37.492	29.193	0.00	0.00
ATOM	6380	N	VAL	X	425	46.236	36.598	27.268	0.00	0.00
ATOM	6381	H	VAL	X	425	46.055	36.540	26.276	0.00	0.00
ATOM	6382	CA	VAL	X	425	47.546	36.103	27.764	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.833	36.508	28.734	0.00	0.00
ATOM	6384	CB	VAL	X	425	47.638	34.548	27.725	0.00	0.00
ATOM	6385	HB	VAL	X	425	47.323	34.071	26.797	0.00	0.00
ATOM	6386	CG1	VAL	X	425	49.078	34.014	28.050	0.00	0.00
ATOM	6387	HG11	VAL	X	425	48.905	32.957	28.252	0.00	0.00
ATOM	6388	HG12	VAL	X	425	49.739	34.236	27.212	0.00	0.00
ATOM	6389	HG13	VAL	X	425	49.514	34.450	28.949	0.00	0.00
ATOM	6390	CG2	VAL	X	425	46.585	33.969	28.706	0.00	0.00
ATOM	6391	HG21	VAL	X	425	47.066	34.035	29.682	0.00	0.00
ATOM	6392	HG22	VAL	X	425	45.621	34.478	28.730	0.00	0.00
ATOM	6393	HG23	VAL	X	425	46.541	32.896	28.522	0.00	0.00
ATOM	6394	C	VAL	X	425	48.616	36.745	26.852	0.00	0.00
ATOM	6395	O	VAL	X	425	48.615	36.581	25.637	0.00	0.00
ATOM	6396	N	PHE	X	426	49.644	37.398	27.371	0.00	0.00
ATOM	6397	H	PHE	X	426	49.670	37.455	28.379	0.00	0.00
ATOM	6398	CA	PHE	X	426	50.764	37.961	26.627	0.00	0.00
ATOM	6399	HA	PHE	X	426	50.258	38.121	25.675	0.00	0.00
ATOM	6400	CB	PHE	X	426	51.170	39.289	27.355	0.00	0.00
ATOM	6401	HB2	PHE	X	426	50.262	39.861	27.545	0.00	0.00
ATOM	6402	HB3	PHE	X	426	51.611	39.057	28.324	0.00	0.00
ATOM	6403	CG	PHE	X	426	52.331	39.918	26.595	0.00	0.00
ATOM	6404	CD1	PHE	X	426	52.084	40.996	25.722	0.00	0.00
ATOM	6405	HD1	PHE	X	426	51.084	41.398	25.662	0.00	0.00
ATOM	6406	CE1	PHE	X	426	53.121	41.676	25.020	0.00	0.00
ATOM	6407	HE1	PHE	X	426	52.861	42.484	24.351	0.00	0.00
ATOM	6408	CZ	PHE	X	426	54.482	41.300	25.324	0.00	0.00

ATOM	6409	HZ	PHE	X	426	55.301	41.758	24.791	0.00	0.00
ATOM	6410	CE2	PHE	X	426	54.724	40.162	26.099	0.00	0.00
ATOM	6411	HE2	PHE	X	426	55.740	39.952	26.399	0.00	0.00
ATOM	6412	CD2	PHE	X	426	53.654	39.501	26.707	0.00	0.00
ATOM	6413	HD2	PHE	X	426	53.906	38.744	27.435	0.00	0.00
ATOM	6414	C	PHE	X	426	51.898	36.957	26.438	0.00	0.00
ATOM	6415	O	PHE	X	426	52.382	36.299	27.385	0.00	0.00
ATOM	6416	N	GLU	X	427	52.371	36.780	25.199	0.00	0.00
ATOM	6417	H	GLU	X	427	51.905	37.286	24.459	0.00	0.00
ATOM	6418	CA	GLU	X	427	53.248	35.652	24.925	0.00	0.00
ATOM	6419	HA	GLU	X	427	53.654	35.306	25.876	0.00	0.00
ATOM	6420	CB	GLU	X	427	52.587	34.386	24.422	0.00	0.00
ATOM	6421	HB2	GLU	X	427	53.354	33.700	24.063	0.00	0.00
ATOM	6422	HB3	GLU	X	427	51.961	33.979	25.216	0.00	0.00
ATOM	6423	CG	GLU	X	427	51.604	34.591	23.298	0.00	0.00
ATOM	6424	HG2	GLU	X	427	50.737	35.169	23.618	0.00	0.00
ATOM	6425	HG3	GLU	X	427	52.145	34.982	22.437	0.00	0.00
ATOM	6426	CD	GLU	X	427	50.980	33.246	22.902	0.00	0.00
ATOM	6427	OE1	GLU	X	427	50.307	32.659	23.747	0.00	0.00
ATOM	6428	OE2	GLU	X	427	51.186	32.797	21.780	0.00	0.00
ATOM	6429	C	GLU	X	427	54.467	36.066	24.059	0.00	0.00
ATOM	6430	O	GLU	X	427	55.226	35.151	23.793	0.00	0.00
ATOM	6431	N	HIE	X	428	54.746	37.270	23.664	0.00	0.00
ATOM	6432	H	HIE	X	428	54.010	37.961	23.656	0.00	0.00
ATOM	6433	CA	HIE	X	428	56.002	37.543	22.935	0.00	0.00
ATOM	6434	HA	HIE	X	428	56.330	36.702	22.324	0.00	0.00
ATOM	6435	CB	HIE	X	428	55.847	38.794	22.045	0.00	0.00
ATOM	6436	HB2	HIE	X	428	55.017	38.529	21.390	0.00	0.00
ATOM	6437	HB3	HIE	X	428	55.507	39.597	22.699	0.00	0.00
ATOM	6438	CG	HIE	X	428	57.136	39.144	21.315	0.00	0.00
ATOM	6439	ND1	HIE	X	428	57.781	38.340	20.478	0.00	0.00
ATOM	6440	CE1	HIE	X	428	58.797	39.047	20.017	0.00	0.00
ATOM	6441	HE1	HIE	X	428	59.631	38.734	19.407	0.00	0.00
ATOM	6442	NE2	HIE	X	428	58.792	40.324	20.534	0.00	0.00
ATOM	6443	HE2	HIE	X	428	59.513	41.002	20.333	0.00	0.00
ATOM	6444	CD2	HIE	X	428	57.717	40.391	21.396	0.00	0.00
ATOM	6445	HD2	HIE	X	428	57.364	41.238	21.965	0.00	0.00
ATOM	6446	C	HIE	X	428	57.161	37.741	23.907	0.00	0.00
ATOM	6447	O	HIE	X	428	57.107	38.464	24.883	0.00	0.00
ATOM	6448	N	ARG	X	429	58.256	37.044	23.572	0.00	0.00
ATOM	6449	H	ARG	X	429	58.191	36.578	22.679	0.00	0.00
ATOM	6450	CA	ARG	X	429	59.514	36.952	24.368	0.00	0.00
ATOM	6451	HA	ARG	X	429	59.213	37.283	25.362	0.00	0.00
ATOM	6452	CB	ARG	X	429	60.038	35.508	24.441	0.00	0.00
ATOM	6453	HB2	ARG	X	429	59.256	34.857	24.833	0.00	0.00
ATOM	6454	HB3	ARG	X	429	60.268	35.057	23.476	0.00	0.00
ATOM	6455	CG	ARG	X	429	61.167	35.270	25.503	0.00	0.00
ATOM	6456	HG2	ARG	X	429	62.104	35.760	25.238	0.00	0.00
ATOM	6457	HG3	ARG	X	429	60.880	35.791	26.417	0.00	0.00
ATOM	6458	CD	ARG	X	429	61.493	33.788	25.849	0.00	0.00
ATOM	6459	HD2	ARG	X	429	60.609	33.186	25.641	0.00	0.00
ATOM	6460	HD3	ARG	X	429	62.283	33.306	25.274	0.00	0.00
ATOM	6461	NE	ARG	X	429	61.838	33.701	27.249	0.00	0.00
ATOM	6462	HE	ARG	X	429	61.182	34.099	27.906	0.00	0.00
ATOM	6463	CZ	ARG	X	429	62.892	33.103	27.812	0.00	0.00
ATOM	6464	NH1	ARG	X	429	63.994	32.907	27.110	0.00	0.00
ATOM	6465	HH11	ARG	X	429	63.930	33.060	26.114	0.00	0.00
ATOM	6466	HH12	ARG	X	429	64.881	32.750	27.566	0.00	0.00
ATOM	6467	NH2	ARG	X	429	62.865	32.963	29.132	0.00	0.00
ATOM	6468	HH21	ARG	X	429	61.987	33.043	29.624	0.00	0.00
ATOM	6469	HH22	ARG	X	429	63.682	32.631	29.625	0.00	0.00
ATOM	6470	C	ARG	X	429	60.559	37.850	23.698	0.00	0.00
ATOM	6471	O	ARG	X	429	61.347	37.410	22.866	0.00	0.00
ATOM	6472	N	ALA	X	430	60.588	39.099	24.156	0.00	0.00
ATOM	6473	H	ALA	X	430	60.045	39.312	24.980	0.00	0.00
ATOM	6474	CA	ALA	X	430	61.199	40.234	23.533	0.00	0.00
ATOM	6475	HA	ALA	X	430	60.887	40.239	22.489	0.00	0.00
ATOM	6476	CB	ALA	X	430	60.579	41.472	24.063	0.00	0.00
ATOM	6477	HB1	ALA	X	430	60.842	41.870	25.042	0.00	0.00
ATOM	6478	HB2	ALA	X	430	60.849	42.222	23.320	0.00	0.00

ATOM	6479	HB3	ALA	X	430	59.491	41.397	24.080	0.00	0.00
ATOM	6480	C	ALA	X	430	62.749	40.166	23.610	0.00	0.00
ATOM	6481	O	ALA	X	430	63.451	39.519	24.374	0.00	0.00
ATOM	6482	N	SER	X	431	63.346	40.965	22.739	0.00	0.00
ATOM	6483	H	SER	X	431	62.766	41.453	22.072	0.00	0.00
ATOM	6484	CA	SER	X	431	64.812	41.196	22.716	0.00	0.00
ATOM	6485	HA	SER	X	431	65.288	40.224	22.591	0.00	0.00
ATOM	6486	CB	SER	X	431	65.125	42.149	21.600	0.00	0.00
ATOM	6487	HB2	SER	X	431	66.192	42.324	21.465	0.00	0.00
ATOM	6488	HB3	SER	X	431	64.755	41.639	20.711	0.00	0.00
ATOM	6489	OG	SER	X	431	64.280	43.359	21.793	0.00	0.00
ATOM	6490	HG	SER	X	431	63.550	43.269	21.175	0.00	0.00
ATOM	6491	C	SER	X	431	65.456	41.765	23.946	0.00	0.00
ATOM	6492	O	SER	X	431	66.633	41.561	24.209	0.00	0.00
ATOM	6493	N	THR	X	432	64.575	42.401	24.786	0.00	0.00
ATOM	6494	H	THR	X	432	63.666	42.534	24.367	0.00	0.00
ATOM	6495	CA	THR	X	432	64.874	42.850	26.165	0.00	0.00
ATOM	6496	HA	THR	X	432	65.955	42.877	26.302	0.00	0.00
ATOM	6497	CB	THR	X	432	64.305	44.256	26.548	0.00	0.00
ATOM	6498	HB	THR	X	432	63.231	44.263	26.729	0.00	0.00
ATOM	6499	CG2	THR	X	432	64.882	44.876	27.751	0.00	0.00
ATOM	6500	HG21	THR	X	432	64.738	44.145	28.547	0.00	0.00
ATOM	6501	HG22	THR	X	432	65.947	45.075	27.635	0.00	0.00
ATOM	6502	HG23	THR	X	432	64.418	45.827	28.010	0.00	0.00
ATOM	6503	OG1	THR	X	432	64.535	45.037	25.435	0.00	0.00
ATOM	6504	HG1	THR	X	432	63.830	45.642	25.191	0.00	0.00
ATOM	6505	C	THR	X	432	64.377	41.818	27.199	0.00	0.00
ATOM	6506	O	THR	X	432	63.106	41.761	27.268	0.00	0.00
ATOM	6507	N	LEU	X	433	65.190	41.053	27.873	0.00	0.00
ATOM	6508	H	LEU	X	433	66.192	41.070	27.753	0.00	0.00
ATOM	6509	CA	LEU	X	433	64.798	39.988	28.835	0.00	0.00
ATOM	6510	HA	LEU	X	433	63.967	40.381	29.422	0.00	0.00
ATOM	6511	CB	LEU	X	433	64.407	38.798	28.072	0.00	0.00
ATOM	6512	HB2	LEU	X	433	63.600	39.126	27.416	0.00	0.00
ATOM	6513	HB3	LEU	X	433	65.252	38.519	27.443	0.00	0.00
ATOM	6514	CG	LEU	X	433	63.950	37.585	28.846	0.00	0.00
ATOM	6515	HG	LEU	X	433	64.704	37.308	29.583	0.00	0.00
ATOM	6516	CD1	LEU	X	433	62.648	37.862	29.708	0.00	0.00
ATOM	6517	HD11	LEU	X	433	62.334	36.959	30.232	0.00	0.00
ATOM	6518	HD12	LEU	X	433	62.912	38.604	30.462	0.00	0.00
ATOM	6519	HD13	LEU	X	433	61.824	38.240	29.103	0.00	0.00
ATOM	6520	CD2	LEU	X	433	63.703	36.509	27.814	0.00	0.00
ATOM	6521	HD21	LEU	X	433	63.099	36.809	26.958	0.00	0.00
ATOM	6522	HD22	LEU	X	433	64.616	36.024	27.470	0.00	0.00
ATOM	6523	HD23	LEU	X	433	63.178	35.651	28.235	0.00	0.00
ATOM	6524	C	LEU	X	433	65.935	39.754	29.852	0.00	0.00
ATOM	6525	O	LEU	X	433	67.088	39.518	29.505	0.00	0.00
ATOM	6526	N	SER	X	434	65.557	39.595	31.106	0.00	0.00
ATOM	6527	H	SER	X	434	64.606	39.820	31.362	0.00	0.00
ATOM	6528	CA	SER	X	434	66.472	39.071	32.169	0.00	0.00
ATOM	6529	HA	SER	X	434	67.490	39.365	31.915	0.00	0.00
ATOM	6530	CB	SER	X	434	66.288	39.879	33.485	0.00	0.00
ATOM	6531	HB2	SER	X	434	65.225	39.844	33.726	0.00	0.00
ATOM	6532	HB3	SER	X	434	66.882	39.432	34.283	0.00	0.00
ATOM	6533	OG	SER	X	434	66.747	41.230	33.224	0.00	0.00
ATOM	6534	HG	SER	X	434	66.176	41.932	33.544	0.00	0.00
ATOM	6535	C	SER	X	434	66.373	37.567	32.443	0.00	0.00
ATOM	6536	O	SER	X	434	67.361	36.947	32.965	0.00	0.00
ATOM	6537	N	TRP	X	435	65.186	36.951	32.214	0.00	0.00
ATOM	6538	H	TRP	X	435	64.390	37.389	31.773	0.00	0.00
ATOM	6539	CA	TRP	X	435	64.817	35.713	32.763	0.00	0.00
ATOM	6540	HA	TRP	X	435	65.127	35.701	33.808	0.00	0.00
ATOM	6541	CB	TRP	X	435	63.323	35.533	32.893	0.00	0.00
ATOM	6542	HB2	TRP	X	435	62.914	35.370	31.896	0.00	0.00
ATOM	6543	HB3	TRP	X	435	63.172	34.619	33.466	0.00	0.00
ATOM	6544	CG	TRP	X	435	62.685	36.651	33.574	0.00	0.00
ATOM	6545	CD1	TRP	X	435	61.689	37.345	33.005	0.00	0.00
ATOM	6546	HD1	TRP	X	435	61.183	37.198	32.062	0.00	0.00
ATOM	6547	NE1	TRP	X	435	61.226	38.252	33.924	0.00	0.00
ATOM	6548	HE1	TRP	X	435	60.487	38.882	33.645	0.00	0.00

ATOM	6549	CE2	TRP	X	435	62.083	38.449	35.000	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	62.094	39.344	36.111	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	61.439	40.196	36.217	0.00	0.00
ATOM	6552	CH2	TRP	X	435	63.124	39.231	37.051	0.00	0.00
ATOM	6553	HH2	TRP	X	435	63.164	39.855	37.932	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	64.079	38.215	36.853	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	64.763	37.958	37.648	0.00	0.00
ATOM	6556	CE3	TRP	X	435	64.081	37.389	35.771	0.00	0.00
ATOM	6557	HE3	TRP	X	435	64.883	36.674	35.662	0.00	0.00
ATOM	6558	CD2	TRP	X	435	63.078	37.425	34.826	0.00	0.00
ATOM	6559	C	TRP	X	435	65.423	34.458	31.984	0.00	0.00
ATOM	6560	O	TRP	X	435	65.526	34.561	30.757	0.00	0.00
ATOM	6561	N	PRO	X	436	65.910	33.399	32.610	0.00	0.00
ATOM	6562	CD	PRO	X	436	66.093	33.240	34.083	0.00	0.00
ATOM	6563	HD2	PRO	X	436	65.282	33.709	34.640	0.00	0.00
ATOM	6564	HD3	PRO	X	436	67.030	33.758	34.288	0.00	0.00
ATOM	6565	CG	PRO	X	436	66.403	31.782	34.387	0.00	0.00
ATOM	6566	HG2	PRO	X	436	65.486	31.205	34.513	0.00	0.00
ATOM	6567	HG3	PRO	X	436	67.265	31.668	35.044	0.00	0.00
ATOM	6568	CB	PRO	X	436	67.006	31.376	33.045	0.00	0.00
ATOM	6569	HB2	PRO	X	436	66.868	30.312	32.854	0.00	0.00
ATOM	6570	HB3	PRO	X	436	68.062	31.645	33.029	0.00	0.00
ATOM	6571	CA	PRO	X	436	66.308	32.228	32.000	0.00	0.00
ATOM	6572	HA	PRO	X	436	67.087	32.444	31.268	0.00	0.00
ATOM	6573	C	PRO	X	436	65.129	31.381	31.302	0.00	0.00
ATOM	6574	O	PRO	X	436	63.928	31.692	31.491	0.00	0.00
ATOM	6575	N	LEU	X	437	65.457	30.454	30.404	0.00	0.00
ATOM	6576	H	LEU	X	437	66.408	30.382	30.072	0.00	0.00
ATOM	6577	CA	LEU	X	437	64.648	29.804	29.395	0.00	0.00
ATOM	6578	HA	LEU	X	437	64.341	30.567	28.679	0.00	0.00
ATOM	6579	CB	LEU	X	437	65.483	28.691	28.682	0.00	0.00
ATOM	6580	HB2	LEU	X	437	66.289	29.235	28.190	0.00	0.00
ATOM	6581	HB3	LEU	X	437	65.907	28.138	29.520	0.00	0.00
ATOM	6582	CG	LEU	X	437	64.648	27.752	27.814	0.00	0.00
ATOM	6583	HG	LEU	X	437	63.864	27.147	28.268	0.00	0.00
ATOM	6584	CD1	LEU	X	437	64.078	28.466	26.628	0.00	0.00
ATOM	6585	HD11	LEU	X	437	64.859	29.096	26.204	0.00	0.00
ATOM	6586	HD12	LEU	X	437	63.649	27.720	25.959	0.00	0.00
ATOM	6587	HD13	LEU	X	437	63.326	29.161	27.001	0.00	0.00
ATOM	6588	CD2	LEU	X	437	65.560	26.685	27.174	0.00	0.00
ATOM	6589	HD21	LEU	X	437	65.617	25.969	27.994	0.00	0.00
ATOM	6590	HD22	LEU	X	437	65.172	26.159	26.302	0.00	0.00
ATOM	6591	HD23	LEU	X	437	66.491	27.169	26.880	0.00	0.00
ATOM	6592	C	LEU	X	437	63.317	29.232	30.048	0.00	0.00
ATOM	6593	O	LEU	X	437	62.205	29.538	29.596	0.00	0.00
ATOM	6594	N	TRP	X	438	63.530	28.521	31.182	0.00	0.00
ATOM	6595	H	TRP	X	438	64.496	28.360	31.432	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.514	27.693	31.894	0.00	0.00
ATOM	6597	HA	TRP	X	438	61.955	27.100	31.170	0.00	0.00
ATOM	6598	CB	TRP	X	438	63.198	26.841	32.953	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.435	26.167	33.343	0.00	0.00
ATOM	6600	HB3	TRP	X	438	63.987	26.325	32.406	0.00	0.00
ATOM	6601	CG	TRP	X	438	63.852	27.445	34.132	0.00	0.00
ATOM	6602	CD1	TRP	X	438	65.115	27.933	34.075	0.00	0.00
ATOM	6603	HD1	TRP	X	438	65.805	27.855	33.248	0.00	0.00
ATOM	6604	NE1	TRP	X	438	65.422	28.400	35.294	0.00	0.00
ATOM	6605	HE1	TRP	X	438	66.281	28.854	35.571	0.00	0.00
ATOM	6606	CE2	TRP	X	438	64.372	28.369	36.162	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	64.175	28.743	37.557	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	65.001	29.202	38.079	0.00	0.00
ATOM	6609	CH2	TRP	X	438	62.923	28.431	38.225	0.00	0.00
ATOM	6610	HH2	TRP	X	438	62.788	28.771	39.241	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	61.933	27.820	37.488	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	60.972	27.656	37.951	0.00	0.00
ATOM	6613	CE3	TRP	X	438	62.114	27.470	36.111	0.00	0.00
ATOM	6614	HE3	TRP	X	438	61.275	26.991	35.629	0.00	0.00
ATOM	6615	CD2	TRP	X	438	63.342	27.752	35.480	0.00	0.00
ATOM	6616	C	TRP	X	438	61.440	28.549	32.641	0.00	0.00
ATOM	6617	O	TRP	X	438	60.411	27.978	32.938	0.00	0.00
ATOM	6618	N	MET	X	439	61.672	29.872	32.809	0.00	0.00

ATOM	6619	H	MET	X	439	62.484	30.187	32.297	0.00	0.00
ATOM	6620	CA	MET	X	439	60.756	30.835	33.329	0.00	0.00
ATOM	6621	HA	MET	X	439	60.075	30.372	34.043	0.00	0.00
ATOM	6622	CB	MET	X	439	61.491	31.852	34.234	0.00	0.00
ATOM	6623	HB2	MET	X	439	62.180	32.421	33.609	0.00	0.00
ATOM	6624	HB3	MET	X	439	60.705	32.556	34.509	0.00	0.00
ATOM	6625	CG	MET	X	439	62.300	31.408	35.398	0.00	0.00
ATOM	6626	HG2	MET	X	439	61.607	31.012	36.141	0.00	0.00
ATOM	6627	HG3	MET	X	439	62.951	30.559	35.190	0.00	0.00
ATOM	6628	SD	MET	X	439	63.269	32.744	36.187	0.00	0.00
ATOM	6629	CE	MET	X	439	61.865	33.772	36.853	0.00	0.00
ATOM	6630	HE1	MET	X	439	61.353	34.323	36.064	0.00	0.00
ATOM	6631	HE2	MET	X	439	61.046	33.113	37.140	0.00	0.00
ATOM	6632	HE3	MET	X	439	62.194	34.336	37.725	0.00	0.00
ATOM	6633	C	MET	X	439	59.811	31.418	32.257	0.00	0.00
ATOM	6634	O	MET	X	439	59.053	32.293	32.597	0.00	0.00
ATOM	6635	N	GLY	X	440	59.967	31.115	30.968	0.00	0.00
ATOM	6636	H	GLY	X	440	60.653	30.387	30.823	0.00	0.00
ATOM	6637	CA	GLY	X	440	59.108	31.630	29.939	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.544	31.205	29.025	0.00	0.00
ATOM	6639	HA3	GLY	X	440	58.083	31.338	30.119	0.00	0.00
ATOM	6640	C	GLY	X	440	59.153	33.156	29.859	0.00	0.00
ATOM	6641	O	GLY	X	440	60.240	33.745	29.727	0.00	0.00
ATOM	6642	N	VAL	X	441	57.927	33.722	29.833	0.00	0.00
ATOM	6643	H	VAL	X	441	57.146	33.085	29.892	0.00	0.00
ATOM	6644	CA	VAL	X	441	57.713	35.141	29.942	0.00	0.00
ATOM	6645	HA	VAL	X	441	58.624	35.725	30.075	0.00	0.00
ATOM	6646	CB	VAL	X	441	56.995	35.776	28.660	0.00	0.00
ATOM	6647	HB	VAL	X	441	56.796	36.818	28.909	0.00	0.00
ATOM	6648	CG1	VAL	X	441	58.104	35.985	27.567	0.00	0.00
ATOM	6649	HG11	VAL	X	441	58.506	35.034	27.219	0.00	0.00
ATOM	6650	HG12	VAL	X	441	57.696	36.423	26.656	0.00	0.00
ATOM	6651	HG13	VAL	X	441	58.890	36.686	27.848	0.00	0.00
ATOM	6652	CG2	VAL	X	441	55.822	35.121	28.045	0.00	0.00
ATOM	6653	HG21	VAL	X	441	55.181	35.877	27.590	0.00	0.00
ATOM	6654	HG22	VAL	X	441	56.123	34.537	27.175	0.00	0.00
ATOM	6655	HG23	VAL	X	441	55.396	34.439	28.781	0.00	0.00
ATOM	6656	C	VAL	X	441	56.780	35.296	31.201	0.00	0.00
ATOM	6657	O	VAL	X	441	55.641	35.016	31.129	0.00	0.00
ATOM	6658	N	PRO	X	442	57.384	35.568	32.406	0.00	0.00
ATOM	6659	CD	PRO	X	442	58.751	35.745	32.649	0.00	0.00
ATOM	6660	HD2	PRO	X	442	59.096	36.717	32.295	0.00	0.00
ATOM	6661	HD3	PRO	X	442	59.348	35.011	32.107	0.00	0.00
ATOM	6662	CG	PRO	X	442	58.999	35.587	34.062	0.00	0.00
ATOM	6663	HG2	PRO	X	442	59.048	36.519	34.625	0.00	0.00
ATOM	6664	HG3	PRO	X	442	59.825	34.908	34.274	0.00	0.00
ATOM	6665	CB	PRO	X	442	57.709	34.926	34.696	0.00	0.00
ATOM	6666	HB2	PRO	X	442	57.528	35.178	35.741	0.00	0.00
ATOM	6667	HB3	PRO	X	442	57.810	33.885	34.388	0.00	0.00
ATOM	6668	CA	PRO	X	442	56.697	35.506	33.751	0.00	0.00
ATOM	6669	HA	PRO	X	442	55.871	34.800	33.664	0.00	0.00
ATOM	6670	C	PRO	X	442	56.117	36.832	34.245	0.00	0.00
ATOM	6671	O	PRO	X	442	56.210	37.765	33.487	0.00	0.00
ATOM	6672	N	HIP	X	443	55.616	36.938	35.459	0.00	0.00
ATOM	6673	H	HIP	X	443	55.705	36.158	36.095	0.00	0.00
ATOM	6674	CA	HIP	X	443	54.929	38.081	36.041	0.00	0.00
ATOM	6675	HA	HIP	X	443	53.842	38.014	35.985	0.00	0.00
ATOM	6676	CB	HIP	X	443	55.075	38.113	37.603	0.00	0.00
ATOM	6677	HB2	HIP	X	443	54.787	37.144	38.010	0.00	0.00
ATOM	6678	HB3	HIP	X	443	56.122	38.229	37.879	0.00	0.00
ATOM	6679	CG	HIP	X	443	54.187	39.068	38.372	0.00	0.00
ATOM	6680	ND1	HIP	X	443	52.735	39.044	38.505	0.00	0.00
ATOM	6681	HD1	HIP	X	443	52.140	38.346	38.082	0.00	0.00
ATOM	6682	CE1	HIP	X	443	52.420	40.000	39.415	0.00	0.00
ATOM	6683	HE1	HIP	X	443	51.424	40.362	39.626	0.00	0.00
ATOM	6684	NE2	HIP	X	443	53.561	40.543	39.892	0.00	0.00
ATOM	6685	HE2	HIP	X	443	53.499	41.208	40.650	0.00	0.00
ATOM	6686	CD2	HIP	X	443	54.694	40.026	39.234	0.00	0.00
ATOM	6687	HD2	HIP	X	443	55.736	40.161	39.483	0.00	0.00
ATOM	6688	C	HIP	X	443	55.171	39.478	35.488	0.00	0.00

ATOM	6689	O	HIP	X	443	56.211	40.110	35.764	0.00	0.00
ATOM	6690	N	GLY	X	444	54.118	40.138	34.952	0.00	0.00
ATOM	6691	H	GLY	X	444	53.247	39.627	34.957	0.00	0.00
ATOM	6692	CA	GLY	X	444	53.985	41.585	34.729	0.00	0.00
ATOM	6693	HA2	GLY	X	444	52.934	41.822	34.496	0.00	0.00
ATOM	6694	HA3	GLY	X	444	54.283	42.062	35.677	0.00	0.00
ATOM	6695	C	GLY	X	444	54.964	42.108	33.675	0.00	0.00
ATOM	6696	O	GLY	X	444	55.365	43.270	33.795	0.00	0.00
ATOM	6697	N	TYR	X	445	55.397	41.288	32.707	0.00	0.00
ATOM	6698	H	TYR	X	445	55.031	40.347	32.712	0.00	0.00
ATOM	6699	CA	TYR	X	445	56.537	41.665	31.869	0.00	0.00
ATOM	6700	HA	TYR	X	445	57.378	41.926	32.511	0.00	0.00
ATOM	6701	CB	TYR	X	445	56.859	40.321	31.110	0.00	0.00
ATOM	6702	HB2	TYR	X	445	56.995	39.504	31.819	0.00	0.00
ATOM	6703	HB3	TYR	X	445	56.022	39.995	30.492	0.00	0.00
ATOM	6704	CG	TYR	X	445	57.950	40.195	30.017	0.00	0.00
ATOM	6705	CD1	TYR	X	445	59.267	40.454	30.361	0.00	0.00
ATOM	6706	HD1	TYR	X	445	59.477	40.689	31.394	0.00	0.00
ATOM	6707	CE1	TYR	X	445	60.285	40.367	29.427	0.00	0.00
ATOM	6708	HE1	TYR	X	445	61.303	40.496	29.762	0.00	0.00
ATOM	6709	CZ	TYR	X	445	59.876	40.043	28.073	0.00	0.00
ATOM	6710	OH	TYR	X	445	60.815	39.934	27.114	0.00	0.00
ATOM	6711	HH	TYR	X	445	61.577	40.485	27.304	0.00	0.00
ATOM	6712	CE2	TYR	X	445	58.549	40.043	27.637	0.00	0.00
ATOM	6713	HE2	TYR	X	445	58.219	39.864	26.625	0.00	0.00
ATOM	6714	CD2	TYR	X	445	57.555	40.189	28.652	0.00	0.00
ATOM	6715	HD2	TYR	X	445	56.537	40.322	28.314	0.00	0.00
ATOM	6716	C	TYR	X	445	56.194	42.803	30.913	0.00	0.00
ATOM	6717	O	TYR	X	445	57.038	43.557	30.497	0.00	0.00
ATOM	6718	N	GLU	X	446	54.961	42.939	30.502	0.00	0.00
ATOM	6719	H	GLU	X	446	54.144	42.592	30.983	0.00	0.00
ATOM	6720	CA	GLU	X	446	54.618	43.703	29.322	0.00	0.00
ATOM	6721	HA	GLU	X	446	55.382	43.531	28.564	0.00	0.00
ATOM	6722	CB	GLU	X	446	53.337	43.119	28.733	0.00	0.00
ATOM	6723	HB2	GLU	X	446	53.334	43.375	27.673	0.00	0.00
ATOM	6724	HB3	GLU	X	446	53.390	42.050	28.939	0.00	0.00
ATOM	6725	CG	GLU	X	446	51.923	43.614	29.123	0.00	0.00
ATOM	6726	HG2	GLU	X	446	51.758	44.682	28.983	0.00	0.00
ATOM	6727	HG3	GLU	X	446	51.308	43.053	28.420	0.00	0.00
ATOM	6728	CD	GLU	X	446	51.447	43.235	30.515	0.00	0.00
ATOM	6729	OE1	GLU	X	446	50.361	42.638	30.679	0.00	0.00
ATOM	6730	OE2	GLU	X	446	52.175	43.593	31.409	0.00	0.00
ATOM	6731	C	GLU	X	446	54.477	45.203	29.597	0.00	0.00
ATOM	6732	O	GLU	X	446	54.270	45.956	28.686	0.00	0.00
ATOM	6733	N	ILE	X	447	54.198	45.660	30.876	0.00	0.00
ATOM	6734	H	ILE	X	447	54.167	44.992	31.633	0.00	0.00
ATOM	6735	CA	ILE	X	447	53.903	47.142	31.091	0.00	0.00
ATOM	6736	HA	ILE	X	447	52.942	47.274	30.596	0.00	0.00
ATOM	6737	CB	ILE	X	447	53.774	47.529	32.552	0.00	0.00
ATOM	6738	HB	ILE	X	447	53.288	48.504	32.599	0.00	0.00
ATOM	6739	CG2	ILE	X	447	52.948	46.546	33.350	0.00	0.00
ATOM	6740	HG21	ILE	X	447	53.554	45.667	33.566	0.00	0.00
ATOM	6741	HG22	ILE	X	447	52.652	47.027	34.283	0.00	0.00
ATOM	6742	HG23	ILE	X	447	52.056	46.226	32.812	0.00	0.00
ATOM	6743	CG1	ILE	X	447	55.178	47.747	33.252	0.00	0.00
ATOM	6744	HG12	ILE	X	447	55.674	46.776	33.228	0.00	0.00
ATOM	6745	HG13	ILE	X	447	55.891	48.354	32.694	0.00	0.00
ATOM	6746	CD1	ILE	X	447	55.116	48.306	34.625	0.00	0.00
ATOM	6747	HD11	ILE	X	447	54.514	47.709	35.310	0.00	0.00
ATOM	6748	HD12	ILE	X	447	56.090	48.326	35.115	0.00	0.00
ATOM	6749	HD13	ILE	X	447	54.834	49.358	34.589	0.00	0.00
ATOM	6750	C	ILE	X	447	54.841	48.123	30.340	0.00	0.00
ATOM	6751	O	ILE	X	447	54.397	49.203	29.895	0.00	0.00
ATOM	6752	N	GLU	X	448	56.022	47.596	29.991	0.00	0.00
ATOM	6753	H	GLU	X	448	56.414	46.739	30.354	0.00	0.00
ATOM	6754	CA	GLU	X	448	56.991	48.400	29.192	0.00	0.00
ATOM	6755	HA	GLU	X	448	56.960	49.370	29.688	0.00	0.00
ATOM	6756	CB	GLU	X	448	58.311	47.803	29.072	0.00	0.00
ATOM	6757	HB2	GLU	X	448	58.205	46.765	28.757	0.00	0.00
ATOM	6758	HB3	GLU	X	448	58.894	48.382	28.354	0.00	0.00

ATOM	6759	CG	GLU	X	448	58.950	47.750	30.506	0.00	0.00
ATOM	6760	HG2	GLU	X	448	59.180	48.775	30.794	0.00	0.00
ATOM	6761	HG3	GLU	X	448	58.256	47.433	31.284	0.00	0.00
ATOM	6762	CD	GLU	X	448	60.141	46.812	30.489	0.00	0.00
ATOM	6763	OE1	GLU	X	448	61.351	47.191	30.524	0.00	0.00
ATOM	6764	OE2	GLU	X	448	59.975	45.554	30.409	0.00	0.00
ATOM	6765	C	GLU	X	448	56.511	48.721	27.763	0.00	0.00
ATOM	6766	O	GLU	X	448	56.630	49.885	27.209	0.00	0.00
ATOM	6767	N	PHE	X	449	55.691	47.770	27.271	0.00	0.00
ATOM	6768	H	PHE	X	449	55.427	46.993	27.859	0.00	0.00
ATOM	6769	CA	PHE	X	449	55.054	47.874	26.067	0.00	0.00
ATOM	6770	HA	PHE	X	449	55.723	48.340	25.344	0.00	0.00
ATOM	6771	CB	PHE	X	449	54.734	46.485	25.453	0.00	0.00
ATOM	6772	HB2	PHE	X	449	54.121	45.823	26.064	0.00	0.00
ATOM	6773	HB3	PHE	X	449	54.198	46.778	24.550	0.00	0.00
ATOM	6774	CG	PHE	X	449	55.963	45.707	24.965	0.00	0.00
ATOM	6775	CD1	PHE	X	449	56.929	45.183	25.790	0.00	0.00
ATOM	6776	HD1	PHE	X	449	56.855	45.223	26.867	0.00	0.00
ATOM	6777	CE1	PHE	X	449	57.979	44.414	25.283	0.00	0.00
ATOM	6778	HE1	PHE	X	449	58.782	43.982	25.862	0.00	0.00
ATOM	6779	CZ	PHE	X	449	58.002	44.194	23.916	0.00	0.00
ATOM	6780	HZ	PHE	X	449	58.785	43.549	23.545	0.00	0.00
ATOM	6781	CE2	PHE	X	449	57.159	44.841	23.047	0.00	0.00
ATOM	6782	HE2	PHE	X	449	57.318	44.664	21.993	0.00	0.00
ATOM	6783	CD2	PHE	X	449	56.045	45.527	23.564	0.00	0.00
ATOM	6784	HD2	PHE	X	449	55.355	45.947	22.847	0.00	0.00
ATOM	6785	C	PHE	X	449	53.796	48.712	26.147	0.00	0.00
ATOM	6786	O	PHE	X	449	53.295	49.121	25.105	0.00	0.00
ATOM	6787	N	ILE	X	450	53.293	48.985	27.345	0.00	0.00
ATOM	6788	H	ILE	X	450	53.848	48.674	28.129	0.00	0.00
ATOM	6789	CA	ILE	X	450	52.078	49.787	27.595	0.00	0.00
ATOM	6790	HA	ILE	X	450	51.544	49.932	26.656	0.00	0.00
ATOM	6791	CB	ILE	X	450	51.216	49.183	28.784	0.00	0.00
ATOM	6792	HB	ILE	X	450	51.678	49.350	29.757	0.00	0.00
ATOM	6793	CG2	ILE	X	450	49.881	49.977	28.877	0.00	0.00
ATOM	6794	HG21	ILE	X	450	49.934	51.065	28.838	0.00	0.00
ATOM	6795	HG22	ILE	X	450	49.281	49.660	28.024	0.00	0.00
ATOM	6796	HG23	ILE	X	450	49.259	49.593	29.685	0.00	0.00
ATOM	6797	CG1	ILE	X	450	50.958	47.637	28.599	0.00	0.00
ATOM	6798	HG12	ILE	X	450	51.909	47.139	28.787	0.00	0.00
ATOM	6799	HG13	ILE	X	450	50.266	47.346	29.389	0.00	0.00
ATOM	6800	CD1	ILE	X	450	50.396	47.287	27.241	0.00	0.00
ATOM	6801	HD11	ILE	X	450	50.325	46.199	27.262	0.00	0.00
ATOM	6802	HD12	ILE	X	450	49.398	47.687	27.059	0.00	0.00
ATOM	6803	HD13	ILE	X	450	51.118	47.466	26.444	0.00	0.00
ATOM	6804	C	ILE	X	450	52.468	51.249	27.849	0.00	0.00
ATOM	6805	O	ILE	X	450	52.056	52.149	27.143	0.00	0.00
ATOM	6806	N	PHE	X	451	53.337	51.504	28.832	0.00	0.00
ATOM	6807	H	PHE	X	451	53.668	50.730	29.390	0.00	0.00
ATOM	6808	CA	PHE	X	451	53.937	52.778	29.019	0.00	0.00
ATOM	6809	HA	PHE	X	451	53.217	53.581	29.174	0.00	0.00
ATOM	6810	CB	PHE	X	451	54.723	52.751	30.371	0.00	0.00
ATOM	6811	HB2	PHE	X	451	55.367	51.872	30.408	0.00	0.00
ATOM	6812	HB3	PHE	X	451	55.386	53.612	30.281	0.00	0.00
ATOM	6813	CG	PHE	X	451	53.895	53.036	31.618	0.00	0.00
ATOM	6814	CD1	PHE	X	451	53.762	52.037	32.599	0.00	0.00
ATOM	6815	HD1	PHE	X	451	54.218	51.077	32.409	0.00	0.00
ATOM	6816	CE1	PHE	X	451	52.897	52.342	33.673	0.00	0.00
ATOM	6817	HE1	PHE	X	451	52.855	51.587	34.445	0.00	0.00
ATOM	6818	CZ	PHE	X	451	52.293	53.622	33.879	0.00	0.00
ATOM	6819	HZ	PHE	X	451	51.733	53.872	34.768	0.00	0.00
ATOM	6820	CE2	PHE	X	451	52.561	54.634	32.877	0.00	0.00
ATOM	6821	HE2	PHE	X	451	52.246	55.655	33.036	0.00	0.00
ATOM	6822	CD2	PHE	X	451	53.362	54.281	31.815	0.00	0.00
ATOM	6823	HD2	PHE	X	451	53.489	55.035	31.053	0.00	0.00
ATOM	6824	C	PHE	X	451	54.763	53.259	27.812	0.00	0.00
ATOM	6825	O	PHE	X	451	55.107	54.474	27.759	0.00	0.00
ATOM	6826	N	GLY	X	452	55.123	52.427	26.791	0.00	0.00
ATOM	6827	H	GLY	X	452	54.897	51.444	26.848	0.00	0.00
ATOM	6828	CA	GLY	X	452	55.716	52.914	25.545	0.00	0.00

ATOM	6829	HA2	GLY	X	452	55.629	52.076	24.757	0.00	0.00
ATOM	6830	HA3	GLY	X	452	55.307	53.869	25.308	0.00	0.00
ATOM	6831	C	GLY	X	452	57.217	53.044	25.633	0.00	0.00
ATOM	6832	O	GLY	X	452	57.891	53.612	24.779	0.00	0.00
ATOM	6833	N	ILE	X	453	57.801	52.462	26.693	0.00	0.00
ATOM	6834	H	ILE	X	453	57.253	51.865	27.297	0.00	0.00
ATOM	6835	CA	ILE	X	453	59.244	52.455	26.906	0.00	0.00
ATOM	6836	HA	ILE	X	453	59.553	53.396	27.361	0.00	0.00
ATOM	6837	CB	ILE	X	453	59.537	51.376	27.999	0.00	0.00
ATOM	6838	HB	ILE	X	453	59.175	50.428	27.600	0.00	0.00
ATOM	6839	CG2	ILE	X	453	61.011	51.247	28.464	0.00	0.00
ATOM	6840	HG21	ILE	X	453	61.211	50.441	29.170	0.00	0.00
ATOM	6841	HG22	ILE	X	453	61.564	50.922	27.583	0.00	0.00
ATOM	6842	HG23	ILE	X	453	61.413	52.189	28.837	0.00	0.00
ATOM	6843	CG1	ILE	X	453	58.791	51.680	29.321	0.00	0.00
ATOM	6844	HG12	ILE	X	453	57.705	51.650	29.223	0.00	0.00
ATOM	6845	HG13	ILE	X	453	59.027	50.847	29.983	0.00	0.00
ATOM	6846	CD1	ILE	X	453	59.087	52.944	30.066	0.00	0.00
ATOM	6847	HD11	ILE	X	453	58.365	53.181	30.847	0.00	0.00
ATOM	6848	HD12	ILE	X	453	60.082	52.844	30.501	0.00	0.00
ATOM	6849	HD13	ILE	X	453	59.065	53.801	29.392	0.00	0.00
ATOM	6850	C	ILE	X	453	60.127	52.318	25.654	0.00	0.00
ATOM	6851	O	ILE	X	453	61.141	53.005	25.518	0.00	0.00
ATOM	6852	N	PRO	X	454	59.862	51.411	24.735	0.00	0.00
ATOM	6853	CD	PRO	X	454	58.769	50.392	24.683	0.00	0.00
ATOM	6854	HD2	PRO	X	454	57.886	50.978	24.427	0.00	0.00
ATOM	6855	HD3	PRO	X	454	58.680	49.890	25.646	0.00	0.00
ATOM	6856	CG	PRO	X	454	59.210	49.290	23.715	0.00	0.00
ATOM	6857	HG2	PRO	X	454	58.392	48.747	23.241	0.00	0.00
ATOM	6858	HG3	PRO	X	454	59.820	48.530	24.204	0.00	0.00
ATOM	6859	CB	PRO	X	454	60.018	50.071	22.683	0.00	0.00
ATOM	6860	HB2	PRO	X	454	59.252	50.617	22.132	0.00	0.00
ATOM	6861	HB3	PRO	X	454	60.722	49.511	22.067	0.00	0.00
ATOM	6862	CA	PRO	X	454	60.745	51.159	23.545	0.00	0.00
ATOM	6863	HA	PRO	X	454	61.731	50.841	23.882	0.00	0.00
ATOM	6864	C	PRO	X	454	60.962	52.401	22.543	0.00	0.00
ATOM	6865	O	PRO	X	454	61.822	52.317	21.657	0.00	0.00
ATOM	6866	N	LEU	X	455	60.248	53.547	22.666	0.00	0.00
ATOM	6867	H	LEU	X	455	59.733	53.768	23.507	0.00	0.00
ATOM	6868	CA	LEU	X	455	60.138	54.459	21.521	0.00	0.00
ATOM	6869	HA	LEU	X	455	60.205	53.819	20.641	0.00	0.00
ATOM	6870	CB	LEU	X	455	58.745	55.203	21.573	0.00	0.00
ATOM	6871	HB2	LEU	X	455	58.388	55.298	22.598	0.00	0.00
ATOM	6872	HB3	LEU	X	455	58.833	56.278	21.414	0.00	0.00
ATOM	6873	CG	LEU	X	455	57.586	54.631	20.730	0.00	0.00
ATOM	6874	HG	LEU	X	455	57.681	54.706	19.647	0.00	0.00
ATOM	6875	CD1	LEU	X	455	57.372	53.145	21.129	0.00	0.00
ATOM	6876	HD11	LEU	X	455	57.439	52.824	22.169	0.00	0.00
ATOM	6877	HD12	LEU	X	455	56.458	52.699	20.737	0.00	0.00
ATOM	6878	HD13	LEU	X	455	58.185	52.599	20.650	0.00	0.00
ATOM	6879	CD2	LEU	X	455	56.253	55.272	21.250	0.00	0.00
ATOM	6880	HD21	LEU	X	455	56.119	55.041	22.307	0.00	0.00
ATOM	6881	HD22	LEU	X	455	56.226	56.361	21.204	0.00	0.00
ATOM	6882	HD23	LEU	X	455	55.427	54.863	20.669	0.00	0.00
ATOM	6883	C	LEU	X	455	61.340	55.446	21.327	0.00	0.00
ATOM	6884	O	LEU	X	455	61.420	56.200	20.354	0.00	0.00
ATOM	6885	N	ASP	X	456	62.236	55.487	22.329	0.00	0.00
ATOM	6886	H	ASP	X	456	62.106	54.912	23.149	0.00	0.00
ATOM	6887	CA	ASP	X	456	63.482	56.180	22.116	0.00	0.00
ATOM	6888	HA	ASP	X	456	63.207	57.178	21.776	0.00	0.00
ATOM	6889	CB	ASP	X	456	64.298	56.457	23.405	0.00	0.00
ATOM	6890	HB2	ASP	X	456	63.844	56.954	24.262	0.00	0.00
ATOM	6891	HB3	ASP	X	456	64.692	55.533	23.827	0.00	0.00
ATOM	6892	CG	ASP	X	456	65.577	57.225	23.050	0.00	0.00
ATOM	6893	OD1	ASP	X	456	65.556	58.467	22.760	0.00	0.00
ATOM	6894	OD2	ASP	X	456	66.587	56.596	22.659	0.00	0.00
ATOM	6895	C	ASP	X	456	64.294	55.461	20.938	0.00	0.00
ATOM	6896	O	ASP	X	456	64.378	54.239	20.973	0.00	0.00
ATOM	6897	N	PRO	X	457	64.876	56.189	19.996	0.00	0.00
ATOM	6898	CD	PRO	X	457	64.624	57.553	19.607	0.00	0.00

ATOM	6899	HD2	PRO	X	457	65.285	58.213	20.169	0.00	0.00
ATOM	6900	HD3	PRO	X	457	63.587	57.860	19.742	0.00	0.00
ATOM	6901	CG	PRO	X	457	65.060	57.736	18.172	0.00	0.00
ATOM	6902	HG2	PRO	X	457	65.373	58.751	17.927	0.00	0.00
ATOM	6903	HG3	PRO	X	457	64.234	57.436	17.527	0.00	0.00
ATOM	6904	CB	PRO	X	457	66.150	56.721	17.987	0.00	0.00
ATOM	6905	HB2	PRO	X	457	67.122	57.027	18.373	0.00	0.00
ATOM	6906	HB3	PRO	X	457	66.110	56.339	16.967	0.00	0.00
ATOM	6907	CA	PRO	X	457	65.680	55.594	18.911	0.00	0.00
ATOM	6908	HA	PRO	X	457	65.007	54.974	18.319	0.00	0.00
ATOM	6909	C	PRO	X	457	66.770	54.665	19.181	0.00	0.00
ATOM	6910	O	PRO	X	457	67.229	53.854	18.434	0.00	0.00
ATOM	6911	N	SER	X	458	67.322	54.831	20.406	0.00	0.00
ATOM	6912	H	SER	X	458	66.934	55.541	21.011	0.00	0.00
ATOM	6913	CA	SER	X	458	68.472	54.125	20.858	0.00	0.00
ATOM	6914	HA	SER	X	458	69.134	53.807	20.053	0.00	0.00
ATOM	6915	CB	SER	X	458	69.287	55.016	21.750	0.00	0.00
ATOM	6916	HB2	SER	X	458	70.355	54.799	21.748	0.00	0.00
ATOM	6917	HB3	SER	X	458	69.146	56.047	21.425	0.00	0.00
ATOM	6918	OG	SER	X	458	68.832	55.070	23.076	0.00	0.00
ATOM	6919	HG	SER	X	458	68.077	55.662	23.119	0.00	0.00
ATOM	6920	C	SER	X	458	68.061	52.828	21.561	0.00	0.00
ATOM	6921	O	SER	X	458	68.936	51.938	21.733	0.00	0.00
ATOM	6922	N	ARG	X	459	66.802	52.727	22.065	0.00	0.00
ATOM	6923	H	ARG	X	459	66.108	53.394	21.759	0.00	0.00
ATOM	6924	CA	ARG	X	459	66.455	51.622	22.897	0.00	0.00
ATOM	6925	HA	ARG	X	459	67.290	51.523	23.591	0.00	0.00
ATOM	6926	CB	ARG	X	459	65.098	51.919	23.644	0.00	0.00
ATOM	6927	HB2	ARG	X	459	64.378	52.207	22.878	0.00	0.00
ATOM	6928	HB3	ARG	X	459	64.759	50.954	24.020	0.00	0.00
ATOM	6929	CG	ARG	X	459	65.332	52.932	24.752	0.00	0.00
ATOM	6930	HG2	ARG	X	459	66.104	52.481	25.376	0.00	0.00
ATOM	6931	HG3	ARG	X	459	65.871	53.768	24.305	0.00	0.00
ATOM	6932	CD	ARG	X	459	64.109	53.338	25.618	0.00	0.00
ATOM	6933	HD2	ARG	X	459	63.422	53.789	24.902	0.00	0.00
ATOM	6934	HD3	ARG	X	459	63.588	52.460	25.998	0.00	0.00
ATOM	6935	NE	ARG	X	459	64.450	54.313	26.691	0.00	0.00
ATOM	6936	HE	ARG	X	459	65.410	54.624	26.692	0.00	0.00
ATOM	6937	CZ	ARG	X	459	63.656	54.633	27.644	0.00	0.00
ATOM	6938	NH1	ARG	X	459	62.346	54.334	27.614	0.00	0.00
ATOM	6939	HH11	ARG	X	459	61.917	54.088	26.734	0.00	0.00
ATOM	6940	HH12	ARG	X	459	61.781	54.549	28.424	0.00	0.00
ATOM	6941	NH2	ARG	X	459	64.125	55.426	28.552	0.00	0.00
ATOM	6942	HH21	ARG	X	459	65.129	55.360	28.644	0.00	0.00
ATOM	6943	HH22	ARG	X	459	63.508	55.657	29.318	0.00	0.00
ATOM	6944	C	ARG	X	459	66.420	50.375	21.977	0.00	0.00
ATOM	6945	O	ARG	X	459	65.962	50.308	20.833	0.00	0.00
ATOM	6946	N	ASN	X	460	66.966	49.309	22.568	0.00	0.00
ATOM	6947	H	ASN	X	460	67.279	49.431	23.521	0.00	0.00
ATOM	6948	CA	ASN	X	460	67.456	48.082	21.879	0.00	0.00
ATOM	6949	HA	ASN	X	460	68.044	48.411	21.022	0.00	0.00
ATOM	6950	CB	ASN	X	460	68.358	47.326	22.914	0.00	0.00
ATOM	6951	HB2	ASN	X	460	69.096	46.777	22.329	0.00	0.00
ATOM	6952	HB3	ASN	X	460	68.953	48.027	23.499	0.00	0.00
ATOM	6953	CG	ASN	X	460	67.700	46.474	23.911	0.00	0.00
ATOM	6954	OD1	ASN	X	460	67.759	46.771	25.137	0.00	0.00
ATOM	6955	ND2	ASN	X	460	67.281	45.290	23.514	0.00	0.00
ATOM	6956	HD21	ASN	X	460	66.782	44.740	24.199	0.00	0.00
ATOM	6957	HD22	ASN	X	460	67.237	44.974	22.556	0.00	0.00
ATOM	6958	C	ASN	X	460	66.355	47.152	21.346	0.00	0.00
ATOM	6959	O	ASN	X	460	66.727	46.149	20.726	0.00	0.00
ATOM	6960	N	TYR	X	461	65.094	47.486	21.558	0.00	0.00
ATOM	6961	H	TYR	X	461	64.924	48.413	21.921	0.00	0.00
ATOM	6962	CA	TYR	X	461	63.975	46.805	20.914	0.00	0.00
ATOM	6963	HA	TYR	X	461	63.920	45.731	21.094	0.00	0.00
ATOM	6964	CB	TYR	X	461	62.613	47.409	21.381	0.00	0.00
ATOM	6965	HB2	TYR	X	461	62.693	48.495	21.325	0.00	0.00
ATOM	6966	HB3	TYR	X	461	61.753	47.038	20.824	0.00	0.00
ATOM	6967	CG	TYR	X	461	62.279	47.106	22.814	0.00	0.00
ATOM	6968	CD1	TYR	X	461	62.707	47.999	23.778	0.00	0.00

ATOM	6969	HD1	TYR	X	461	63.262	48.876	23.479	0.00	0.00
ATOM	6970	CE1	TYR	X	461	62.555	47.698	25.184	0.00	0.00
ATOM	6971	HE1	TYR	X	461	62.954	48.450	25.850	0.00	0.00
ATOM	6972	CZ	TYR	X	461	61.830	46.534	25.565	0.00	0.00
ATOM	6973	OH	TYR	X	461	61.580	46.172	26.835	0.00	0.00
ATOM	6974	HH	TYR	X	461	60.933	45.467	26.908	0.00	0.00
ATOM	6975	CE2	TYR	X	461	61.336	45.676	24.515	0.00	0.00
ATOM	6976	HE2	TYR	X	461	60.853	44.751	24.792	0.00	0.00
ATOM	6977	CD2	TYR	X	461	61.535	45.982	23.188	0.00	0.00
ATOM	6978	HD2	TYR	X	461	61.378	45.243	22.416	0.00	0.00
ATOM	6979	C	TYR	X	461	64.130	46.967	19.372	0.00	0.00
ATOM	6980	O	TYR	X	461	64.664	47.940	18.928	0.00	0.00
ATOM	6981	N	THR	X	462	63.741	45.879	18.635	0.00	0.00
ATOM	6982	H	THR	X	462	63.248	45.135	19.108	0.00	0.00
ATOM	6983	CA	THR	X	462	63.701	45.895	17.195	0.00	0.00
ATOM	6984	HA	THR	X	462	64.539	46.459	16.786	0.00	0.00
ATOM	6985	CB	THR	X	462	63.509	44.443	16.619	0.00	0.00
ATOM	6986	HB	THR	X	462	63.343	44.457	15.542	0.00	0.00
ATOM	6987	CG2	THR	X	462	64.745	43.525	16.916	0.00	0.00
ATOM	6988	HG21	THR	X	462	64.897	43.411	17.989	0.00	0.00
ATOM	6989	HG22	THR	X	462	64.512	42.522	16.560	0.00	0.00
ATOM	6990	HG23	THR	X	462	65.648	43.871	16.412	0.00	0.00
ATOM	6991	OG1	THR	X	462	62.352	43.905	17.108	0.00	0.00
ATOM	6992	HG1	THR	X	462	62.502	43.733	18.041	0.00	0.00
ATOM	6993	C	THR	X	462	62.420	46.657	16.679	0.00	0.00
ATOM	6994	O	THR	X	462	61.426	46.774	17.378	0.00	0.00
ATOM	6995	N	ALA	X	463	62.565	47.026	15.391	0.00	0.00
ATOM	6996	H	ALA	X	463	63.481	46.882	14.992	0.00	0.00
ATOM	6997	CA	ALA	X	463	61.491	47.634	14.547	0.00	0.00
ATOM	6998	HA	ALA	X	463	61.435	48.712	14.703	0.00	0.00
ATOM	6999	CB	ALA	X	463	61.947	47.357	13.057	0.00	0.00
ATOM	7000	HB1	ALA	X	463	61.022	47.617	12.542	0.00	0.00
ATOM	7001	HB2	ALA	X	463	62.854	47.902	12.799	0.00	0.00
ATOM	7002	HB3	ALA	X	463	62.124	46.296	12.877	0.00	0.00
ATOM	7003	C	ALA	X	463	60.073	47.077	14.830	0.00	0.00
ATOM	7004	O	ALA	X	463	59.126	47.841	15.195	0.00	0.00
ATOM	7005	N	GLU	X	464	59.906	45.740	14.700	0.00	0.00
ATOM	7006	H	GLU	X	464	60.727	45.158	14.612	0.00	0.00
ATOM	7007	CA	GLU	X	464	58.676	44.919	14.915	0.00	0.00
ATOM	7008	HA	GLU	X	464	57.827	45.339	14.374	0.00	0.00
ATOM	7009	CB	GLU	X	464	58.904	43.579	14.248	0.00	0.00
ATOM	7010	HB2	GLU	X	464	57.898	43.208	14.047	0.00	0.00
ATOM	7011	HB3	GLU	X	464	59.399	43.684	13.282	0.00	0.00
ATOM	7012	CG	GLU	X	464	59.772	42.535	15.181	0.00	0.00
ATOM	7013	HG2	GLU	X	464	60.691	42.973	15.571	0.00	0.00
ATOM	7014	HG3	GLU	X	464	59.018	42.377	15.953	0.00	0.00
ATOM	7015	CD	GLU	X	464	59.998	41.193	14.536	0.00	0.00
ATOM	7016	OE1	GLU	X	464	61.055	40.636	14.902	0.00	0.00
ATOM	7017	OE2	GLU	X	464	59.296	40.709	13.593	0.00	0.00
ATOM	7018	C	GLU	X	464	58.193	44.795	16.340	0.00	0.00
ATOM	7019	O	GLU	X	464	57.030	44.689	16.598	0.00	0.00
ATOM	7020	N	GLU	X	465	59.100	45.035	17.270	0.00	0.00
ATOM	7021	H	GLU	X	465	60.005	45.387	16.992	0.00	0.00
ATOM	7022	CA	GLU	X	465	58.722	45.150	18.681	0.00	0.00
ATOM	7023	HA	GLU	X	465	57.923	44.461	18.957	0.00	0.00
ATOM	7024	CB	GLU	X	465	59.904	44.715	19.613	0.00	0.00
ATOM	7025	HB2	GLU	X	465	60.767	45.249	19.216	0.00	0.00
ATOM	7026	HB3	GLU	X	465	59.657	44.951	20.648	0.00	0.00
ATOM	7027	CG	GLU	X	465	60.054	43.210	19.461	0.00	0.00
ATOM	7028	HG2	GLU	X	465	59.289	42.800	20.121	0.00	0.00
ATOM	7029	HG3	GLU	X	465	59.945	42.884	18.427	0.00	0.00
ATOM	7030	CD	GLU	X	465	61.443	42.808	20.011	0.00	0.00
ATOM	7031	OE1	GLU	X	465	62.466	43.451	19.735	0.00	0.00
ATOM	7032	OE2	GLU	X	465	61.419	41.789	20.712	0.00	0.00
ATOM	7033	C	GLU	X	465	58.338	46.588	19.028	0.00	0.00
ATOM	7034	O	GLU	X	465	57.369	46.822	19.806	0.00	0.00
ATOM	7035	N	LYS	X	466	58.956	47.596	18.365	0.00	0.00
ATOM	7036	H	LYS	X	466	59.586	47.433	17.592	0.00	0.00
ATOM	7037	CA	LYS	X	466	58.578	49.009	18.602	0.00	0.00
ATOM	7038	HA	LYS	X	466	58.433	49.127	19.676	0.00	0.00

ATOM	7039	CB	LYS	X	466	59.647	50.074	18.020	0.00	0.00
ATOM	7040	HB2	LYS	X	466	59.809	50.009	16.944	0.00	0.00
ATOM	7041	HB3	LYS	X	466	59.230	51.067	18.182	0.00	0.00
ATOM	7042	CG	LYS	X	466	60.854	50.066	18.920	0.00	0.00
ATOM	7043	HG2	LYS	X	466	60.550	50.275	19.945	0.00	0.00
ATOM	7044	HG3	LYS	X	466	61.235	49.045	18.906	0.00	0.00
ATOM	7045	CD	LYS	X	466	61.960	51.023	18.478	0.00	0.00
ATOM	7046	HD2	LYS	X	466	62.272	50.745	17.471	0.00	0.00
ATOM	7047	HD3	LYS	X	466	61.491	52.004	18.553	0.00	0.00
ATOM	7048	CE	LYS	X	466	63.189	50.920	19.473	0.00	0.00
ATOM	7049	HE2	LYS	X	466	62.784	50.850	20.482	0.00	0.00
ATOM	7050	HE3	LYS	X	466	63.719	50.007	19.204	0.00	0.00
ATOM	7051	NZ	LYS	X	466	64.041	52.136	19.175	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	64.290	52.048	18.201	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	63.520	52.997	19.268	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	64.889	52.265	19.708	0.00	0.00
ATOM	7055	C	LYS	X	466	57.240	49.395	17.901	0.00	0.00
ATOM	7056	O	LYS	X	466	56.448	50.071	18.537	0.00	0.00
ATOM	7057	N	ILE	X	467	56.788	48.792	16.797	0.00	0.00
ATOM	7058	H	ILE	X	467	57.337	48.122	16.278	0.00	0.00
ATOM	7059	CA	ILE	X	467	55.475	49.071	16.274	0.00	0.00
ATOM	7060	HA	ILE	X	467	55.292	50.128	16.466	0.00	0.00
ATOM	7061	CB	ILE	X	467	55.337	48.675	14.761	0.00	0.00
ATOM	7062	HB	ILE	X	467	56.113	49.283	14.297	0.00	0.00
ATOM	7063	CG2	ILE	X	467	55.690	47.229	14.383	0.00	0.00
ATOM	7064	HG21	ILE	X	467	55.077	46.523	14.942	0.00	0.00
ATOM	7065	HG22	ILE	X	467	55.518	47.027	13.326	0.00	0.00
ATOM	7066	HG23	ILE	X	467	56.761	47.040	14.462	0.00	0.00
ATOM	7067	CG1	ILE	X	467	53.977	49.059	14.090	0.00	0.00
ATOM	7068	HG12	ILE	X	467	53.899	48.529	13.141	0.00	0.00
ATOM	7069	HG13	ILE	X	467	53.167	48.671	14.707	0.00	0.00
ATOM	7070	CD1	ILE	X	467	53.787	50.565	13.885	0.00	0.00
ATOM	7071	HD11	ILE	X	467	52.786	50.641	13.460	0.00	0.00
ATOM	7072	HD12	ILE	X	467	53.884	50.970	14.892	0.00	0.00
ATOM	7073	HD13	ILE	X	467	54.567	50.918	13.211	0.00	0.00
ATOM	7074	C	ILE	X	467	54.522	48.204	17.101	0.00	0.00
ATOM	7075	O	ILE	X	467	53.461	48.688	17.545	0.00	0.00
ATOM	7076	N	PHE	X	468	54.828	46.964	17.603	0.00	0.00
ATOM	7077	H	PHE	X	468	55.649	46.439	17.339	0.00	0.00
ATOM	7078	CA	PHE	X	468	53.958	46.142	18.437	0.00	0.00
ATOM	7079	HA	PHE	X	468	53.028	45.832	17.960	0.00	0.00
ATOM	7080	CB	PHE	X	468	54.620	44.750	18.667	0.00	0.00
ATOM	7081	HB2	PHE	X	468	54.511	44.210	17.727	0.00	0.00
ATOM	7082	HB3	PHE	X	468	55.682	44.939	18.827	0.00	0.00
ATOM	7083	CG	PHE	X	468	54.056	43.898	19.842	0.00	0.00
ATOM	7084	CD1	PHE	X	468	52.672	43.521	19.765	0.00	0.00
ATOM	7085	HD1	PHE	X	468	52.102	43.971	18.967	0.00	0.00
ATOM	7086	CE1	PHE	X	468	52.260	42.437	20.607	0.00	0.00
ATOM	7087	HE1	PHE	X	468	51.227	42.124	20.569	0.00	0.00
ATOM	7088	CZ	PHE	X	468	53.056	41.919	21.567	0.00	0.00
ATOM	7089	HZ	PHE	X	468	52.721	41.183	22.282	0.00	0.00
ATOM	7090	CE2	PHE	X	468	54.373	42.364	21.572	0.00	0.00
ATOM	7091	HE2	PHE	X	468	55.060	41.895	22.261	0.00	0.00
ATOM	7092	CD2	PHE	X	468	54.927	43.258	20.660	0.00	0.00
ATOM	7093	HD2	PHE	X	468	55.968	43.546	20.638	0.00	0.00
ATOM	7094	C	PHE	X	468	53.646	46.705	19.791	0.00	0.00
ATOM	7095	O	PHE	X	468	52.499	46.513	20.274	0.00	0.00
ATOM	7096	N	ALA	X	469	54.546	47.501	20.451	0.00	0.00
ATOM	7097	H	ALA	X	469	55.506	47.477	20.139	0.00	0.00
ATOM	7098	CA	ALA	X	469	54.224	48.339	21.616	0.00	0.00
ATOM	7099	HA	ALA	X	469	53.673	47.648	22.254	0.00	0.00
ATOM	7100	CB	ALA	X	469	55.550	48.927	22.322	0.00	0.00
ATOM	7101	HB1	ALA	X	469	55.919	49.663	21.609	0.00	0.00
ATOM	7102	HB2	ALA	X	469	55.310	49.426	23.261	0.00	0.00
ATOM	7103	HB3	ALA	X	469	56.274	48.128	22.484	0.00	0.00
ATOM	7104	C	ALA	X	469	53.153	49.397	21.364	0.00	0.00
ATOM	7105	O	ALA	X	469	52.217	49.449	22.162	0.00	0.00
ATOM	7106	N	GLN	X	470	53.180	50.039	20.255	0.00	0.00
ATOM	7107	H	GLN	X	470	53.902	49.821	19.583	0.00	0.00
ATOM	7108	CA	GLN	X	470	52.290	51.070	19.882	0.00	0.00

ATOM	7109	HA	GLN	X	470	52.132	51.756	20.715	0.00	0.00
ATOM	7110	CB	GLN	X	470	52.882	51.847	18.707	0.00	0.00
ATOM	7111	HB2	GLN	X	470	53.026	51.235	17.816	0.00	0.00
ATOM	7112	HB3	GLN	X	470	52.195	52.667	18.496	0.00	0.00
ATOM	7113	CG	GLN	X	470	54.179	52.601	18.907	0.00	0.00
ATOM	7114	HG2	GLN	X	470	54.149	53.381	19.667	0.00	0.00
ATOM	7115	HG3	GLN	X	470	54.898	51.874	19.284	0.00	0.00
ATOM	7116	CD	GLN	X	470	54.761	53.184	17.632	0.00	0.00
ATOM	7117	OE1	GLN	X	470	54.284	54.186	17.084	0.00	0.00
ATOM	7118	NE2	GLN	X	470	55.764	52.609	17.097	0.00	0.00
ATOM	7119	HE21	GLN	X	470	56.007	53.002	16.199	0.00	0.00
ATOM	7120	HE22	GLN	X	470	56.241	51.796	17.461	0.00	0.00
ATOM	7121	C	GLN	X	470	50.913	50.531	19.563	0.00	0.00
ATOM	7122	O	GLN	X	470	49.942	51.180	19.826	0.00	0.00
ATOM	7123	N	ARG	X	471	50.764	49.318	19.173	0.00	0.00
ATOM	7124	H	ARG	X	471	51.611	48.780	19.065	0.00	0.00
ATOM	7125	CA	ARG	X	471	49.532	48.634	19.040	0.00	0.00
ATOM	7126	HA	ARG	X	471	48.891	49.308	18.472	0.00	0.00
ATOM	7127	CB	ARG	X	471	49.856	47.472	18.063	0.00	0.00
ATOM	7128	HB2	ARG	X	471	49.932	47.963	17.093	0.00	0.00
ATOM	7129	HB3	ARG	X	471	50.710	46.863	18.360	0.00	0.00
ATOM	7130	CG	ARG	X	471	48.779	46.361	17.742	0.00	0.00
ATOM	7131	HG2	ARG	X	471	48.571	45.818	18.664	0.00	0.00
ATOM	7132	HG3	ARG	X	471	47.871	46.823	17.353	0.00	0.00
ATOM	7133	CD	ARG	X	471	49.303	45.383	16.676	0.00	0.00
ATOM	7134	HD2	ARG	X	471	49.371	45.877	15.707	0.00	0.00
ATOM	7135	HD3	ARG	X	471	50.282	45.062	17.030	0.00	0.00
ATOM	7136	NE	ARG	X	471	48.527	44.182	16.689	0.00	0.00
ATOM	7137	HE	ARG	X	471	47.535	44.304	16.543	0.00	0.00
ATOM	7138	CZ	ARG	X	471	48.884	42.939	17.169	0.00	0.00
ATOM	7139	NH1	ARG	X	471	50.119	42.536	17.294	0.00	0.00
ATOM	7140	HH11	ARG	X	471	50.871	43.032	16.837	0.00	0.00
ATOM	7141	HH12	ARG	X	471	50.377	41.664	17.735	0.00	0.00
ATOM	7142	NH2	ARG	X	471	47.932	42.112	17.577	0.00	0.00
ATOM	7143	HH21	ARG	X	471	46.987	42.458	17.658	0.00	0.00
ATOM	7144	HH22	ARG	X	471	48.108	41.210	17.997	0.00	0.00
ATOM	7145	C	ARG	X	471	48.785	48.205	20.285	0.00	0.00
ATOM	7146	O	ARG	X	471	47.574	48.217	20.463	0.00	0.00
ATOM	7147	N	LEU	X	472	49.545	47.792	21.323	0.00	0.00
ATOM	7148	H	LEU	X	472	50.518	47.617	21.115	0.00	0.00
ATOM	7149	CA	LEU	X	472	49.128	47.645	22.693	0.00	0.00
ATOM	7150	HA	LEU	X	472	48.213	47.062	22.802	0.00	0.00
ATOM	7151	CB	LEU	X	472	50.179	46.868	23.501	0.00	0.00
ATOM	7152	HB2	LEU	X	472	51.085	47.473	23.523	0.00	0.00
ATOM	7153	HB3	LEU	X	472	49.771	46.757	24.505	0.00	0.00
ATOM	7154	CG	LEU	X	472	50.599	45.494	22.922	0.00	0.00
ATOM	7155	HG	LEU	X	472	51.043	45.652	21.939	0.00	0.00
ATOM	7156	CD1	LEU	X	472	51.706	45.080	23.902	0.00	0.00
ATOM	7157	HD11	LEU	X	472	52.672	45.038	23.398	0.00	0.00
ATOM	7158	HD12	LEU	X	472	51.664	45.545	24.886	0.00	0.00
ATOM	7159	HD13	LEU	X	472	51.512	44.059	24.231	0.00	0.00
ATOM	7160	CD2	LEU	X	472	49.408	44.520	22.823	0.00	0.00
ATOM	7161	HD21	LEU	X	472	49.746	43.545	22.473	0.00	0.00
ATOM	7162	HD22	LEU	X	472	48.795	44.362	23.711	0.00	0.00
ATOM	7163	HD23	LEU	X	472	48.835	44.862	21.961	0.00	0.00
ATOM	7164	C	LEU	X	472	48.835	48.904	23.531	0.00	0.00
ATOM	7165	O	LEU	X	472	47.947	49.022	24.393	0.00	0.00
ATOM	7166	N	MET	X	473	49.556	50.019	23.265	0.00	0.00
ATOM	7167	H	MET	X	473	50.470	49.900	22.852	0.00	0.00
ATOM	7168	CA	MET	X	473	49.148	51.416	23.729	0.00	0.00
ATOM	7169	HA	MET	X	473	49.102	51.549	24.810	0.00	0.00
ATOM	7170	CB	MET	X	473	50.285	52.308	23.129	0.00	0.00
ATOM	7171	HB2	MET	X	473	50.422	52.216	22.051	0.00	0.00
ATOM	7172	HB3	MET	X	473	50.004	53.348	23.295	0.00	0.00
ATOM	7173	CG	MET	X	473	51.591	51.976	23.945	0.00	0.00
ATOM	7174	HG2	MET	X	473	51.452	52.190	25.005	0.00	0.00
ATOM	7175	HG3	MET	X	473	51.881	50.926	23.966	0.00	0.00
ATOM	7176	SD	MET	X	473	53.000	52.731	23.217	0.00	0.00
ATOM	7177	CE	MET	X	473	52.843	54.398	23.777	0.00	0.00
ATOM	7178	HE1	MET	X	473	53.698	54.963	23.405	0.00	0.00

ATOM	7179	HE2	MET	X	473	51.969	54.799	23.265	0.00	0.00
ATOM	7180	HE3	MET	X	473	52.792	54.364	24.865	0.00	0.00
ATOM	7181	C	MET	X	473	47.748	51.786	23.195	0.00	0.00
ATOM	7182	O	MET	X	473	46.950	52.298	23.953	0.00	0.00
ATOM	7183	N	ARG	X	474	47.597	51.489	21.900	0.00	0.00
ATOM	7184	H	ARG	X	474	48.380	51.050	21.438	0.00	0.00
ATOM	7185	CA	ARG	X	474	46.319	51.603	21.276	0.00	0.00
ATOM	7186	HA	ARG	X	474	45.983	52.639	21.320	0.00	0.00
ATOM	7187	CB	ARG	X	474	46.425	51.430	19.736	0.00	0.00
ATOM	7188	HB2	ARG	X	474	47.304	52.016	19.466	0.00	0.00
ATOM	7189	HB3	ARG	X	474	46.836	50.444	19.519	0.00	0.00
ATOM	7190	CG	ARG	X	474	45.184	51.697	18.878	0.00	0.00
ATOM	7191	HG2	ARG	X	474	45.406	51.407	17.851	0.00	0.00
ATOM	7192	HG3	ARG	X	474	44.304	51.175	19.254	0.00	0.00
ATOM	7193	CD	ARG	X	474	44.934	53.167	18.845	0.00	0.00
ATOM	7194	HD2	ARG	X	474	44.599	53.509	19.824	0.00	0.00
ATOM	7195	HD3	ARG	X	474	45.808	53.743	18.542	0.00	0.00
ATOM	7196	NE	ARG	X	474	43.889	53.533	17.903	0.00	0.00
ATOM	7197	HE	ARG	X	474	43.546	52.814	17.282	0.00	0.00
ATOM	7198	CZ	ARG	X	474	43.509	54.809	17.631	0.00	0.00
ATOM	7199	NH1	ARG	X	474	44.178	55.823	18.175	0.00	0.00
ATOM	7200	HH11	ARG	X	474	44.963	55.679	18.794	0.00	0.00
ATOM	7201	HH12	ARG	X	474	43.936	56.734	17.813	0.00	0.00
ATOM	7202	NH2	ARG	X	474	42.638	55.061	16.711	0.00	0.00
ATOM	7203	HH21	ARG	X	474	42.211	54.294	16.212	0.00	0.00
ATOM	7204	HH22	ARG	X	474	42.177	55.959	16.738	0.00	0.00
ATOM	7205	C	ARG	X	474	45.198	50.723	21.873	0.00	0.00
ATOM	7206	O	ARG	X	474	44.183	51.202	22.183	0.00	0.00
ATOM	7207	N	TYR	X	475	45.488	49.442	22.123	0.00	0.00
ATOM	7208	H	TYR	X	475	46.282	48.973	21.711	0.00	0.00
ATOM	7209	CA	TYR	X	475	44.492	48.594	22.797	0.00	0.00
ATOM	7210	HA	TYR	X	475	43.595	48.559	22.179	0.00	0.00
ATOM	7211	CB	TYR	X	475	45.057	47.150	22.854	0.00	0.00
ATOM	7212	HB2	TYR	X	475	46.091	47.266	23.180	0.00	0.00
ATOM	7213	HB3	TYR	X	475	44.382	46.647	23.545	0.00	0.00
ATOM	7214	CG	TYR	X	475	45.244	46.287	21.588	0.00	0.00
ATOM	7215	CD1	TYR	X	475	44.700	46.721	20.355	0.00	0.00
ATOM	7216	HD1	TYR	X	475	44.186	47.664	20.245	0.00	0.00
ATOM	7217	CE1	TYR	X	475	44.787	45.886	19.245	0.00	0.00
ATOM	7218	HE1	TYR	X	475	44.348	46.154	18.295	0.00	0.00
ATOM	7219	CZ	TYR	X	475	45.632	44.744	19.237	0.00	0.00
ATOM	7220	OH	TYR	X	475	45.743	43.962	18.123	0.00	0.00
ATOM	7221	HH	TYR	X	475	45.008	44.095	17.519	0.00	0.00
ATOM	7222	CE2	TYR	X	475	46.214	44.317	20.458	0.00	0.00
ATOM	7223	HE2	TYR	X	475	46.746	43.384	20.570	0.00	0.00
ATOM	7224	CD2	TYR	X	475	45.988	45.056	21.649	0.00	0.00
ATOM	7225	HD2	TYR	X	475	46.420	44.618	22.536	0.00	0.00
ATOM	7226	C	TYR	X	475	44.030	49.196	24.160	0.00	0.00
ATOM	7227	O	TYR	X	475	42.836	49.170	24.452	0.00	0.00
ATOM	7228	N	TRP	X	476	44.925	49.685	24.990	0.00	0.00
ATOM	7229	H	TRP	X	476	45.905	49.793	24.770	0.00	0.00
ATOM	7230	CA	TRP	X	476	44.607	50.247	26.383	0.00	0.00
ATOM	7231	HA	TRP	X	476	43.901	49.635	26.944	0.00	0.00
ATOM	7232	CB	TRP	X	476	45.838	50.295	27.241	0.00	0.00
ATOM	7233	HB2	TRP	X	476	46.720	50.559	26.657	0.00	0.00
ATOM	7234	HB3	TRP	X	476	45.566	51.054	27.975	0.00	0.00
ATOM	7235	CG	TRP	X	476	46.193	49.021	27.991	0.00	0.00
ATOM	7236	CD1	TRP	X	476	46.594	48.998	29.316	0.00	0.00
ATOM	7237	HD1	TRP	X	476	46.565	49.883	29.934	0.00	0.00
ATOM	7238	NE1	TRP	X	476	46.868	47.714	29.687	0.00	0.00
ATOM	7239	HE1	TRP	X	476	47.193	47.525	30.624	0.00	0.00
ATOM	7240	CE2	TRP	X	476	46.685	46.826	28.688	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	46.792	45.394	28.650	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	46.929	44.841	29.568	0.00	0.00
ATOM	7243	CH2	TRP	X	476	46.797	44.819	27.374	0.00	0.00
ATOM	7244	HH2	TRP	X	476	46.947	43.758	27.237	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	46.513	45.641	26.258	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	46.461	45.134	25.306	0.00	0.00
ATOM	7247	CE3	TRP	X	476	46.138	46.964	26.335	0.00	0.00
ATOM	7248	HE3	TRP	X	476	45.952	47.541	25.441	0.00	0.00

ATOM	7249	CD2	TRP	X	476	46.279	47.603	27.570	0.00	0.00
ATOM	7250	C	TRP	X	476	43.885	51.606	26.312	0.00	0.00
ATOM	7251	O	TRP	X	476	42.955	51.809	27.053	0.00	0.00
ATOM	7252	N	ALA	X	477	44.348	52.469	25.379	0.00	0.00
ATOM	7253	H	ALA	X	477	45.159	52.119	24.888	0.00	0.00
ATOM	7254	CA	ALA	X	477	43.691	53.769	25.050	0.00	0.00
ATOM	7255	HA	ALA	X	477	43.591	54.356	25.963	0.00	0.00
ATOM	7256	CB	ALA	X	477	44.594	54.602	24.192	0.00	0.00
ATOM	7257	HB1	ALA	X	477	44.736	54.150	23.211	0.00	0.00
ATOM	7258	HB2	ALA	X	477	44.112	55.558	23.986	0.00	0.00
ATOM	7259	HB3	ALA	X	477	45.607	54.759	24.563	0.00	0.00
ATOM	7260	C	ALA	X	477	42.316	53.509	24.484	0.00	0.00
ATOM	7261	O	ALA	X	477	41.360	54.216	24.846	0.00	0.00
ATOM	7262	N	ASN	X	478	42.138	52.377	23.744	0.00	0.00
ATOM	7263	H	ASN	X	478	42.957	51.845	23.486	0.00	0.00
ATOM	7264	CA	ASN	X	478	40.873	52.083	23.082	0.00	0.00
ATOM	7265	HA	ASN	X	478	40.568	53.028	22.633	0.00	0.00
ATOM	7266	CB	ASN	X	478	41.027	50.989	21.977	0.00	0.00
ATOM	7267	HB2	ASN	X	478	41.812	50.276	22.229	0.00	0.00
ATOM	7268	HB3	ASN	X	478	40.031	50.549	22.033	0.00	0.00
ATOM	7269	CG	ASN	X	478	41.251	51.572	20.606	0.00	0.00
ATOM	7270	OD1	ASN	X	478	41.319	52.776	20.336	0.00	0.00
ATOM	7271	ND2	ASN	X	478	41.286	50.761	19.595	0.00	0.00
ATOM	7272	HD21	ASN	X	478	41.388	51.095	18.648	0.00	0.00
ATOM	7273	HD22	ASN	X	478	41.433	49.764	19.667	0.00	0.00
ATOM	7274	C	ASN	X	478	39.794	51.513	24.029	0.00	0.00
ATOM	7275	O	ASN	X	478	38.623	51.947	24.063	0.00	0.00
ATOM	7276	N	PHE	X	479	40.231	50.679	25.025	0.00	0.00
ATOM	7277	H	PHE	X	479	41.101	50.212	24.813	0.00	0.00
ATOM	7278	CA	PHE	X	479	39.519	50.487	26.283	0.00	0.00
ATOM	7279	HA	PHE	X	479	38.594	49.992	25.988	0.00	0.00
ATOM	7280	CB	PHE	X	479	40.219	49.452	27.111	0.00	0.00
ATOM	7281	HB2	PHE	X	479	40.508	48.680	26.398	0.00	0.00
ATOM	7282	HB3	PHE	X	479	41.183	49.814	27.467	0.00	0.00
ATOM	7283	CG	PHE	X	479	39.378	48.954	28.265	0.00	0.00
ATOM	7284	CD1	PHE	X	479	38.345	47.997	28.051	0.00	0.00
ATOM	7285	HD1	PHE	X	479	38.024	47.713	27.060	0.00	0.00
ATOM	7286	CE1	PHE	X	479	37.592	47.612	29.142	0.00	0.00
ATOM	7287	HE1	PHE	X	479	36.783	46.906	29.026	0.00	0.00
ATOM	7288	CZ	PHE	X	479	37.954	48.099	30.397	0.00	0.00
ATOM	7289	HZ	PHE	X	479	37.485	47.754	31.307	0.00	0.00
ATOM	7290	CE2	PHE	X	479	38.999	48.977	30.582	0.00	0.00
ATOM	7291	HE2	PHE	X	479	39.285	49.371	31.546	0.00	0.00
ATOM	7292	CD2	PHE	X	479	39.745	49.391	29.524	0.00	0.00
ATOM	7293	HD2	PHE	X	479	40.555	50.103	29.568	0.00	0.00
ATOM	7294	C	PHE	X	479	39.120	51.764	27.052	0.00	0.00
ATOM	7295	O	PHE	X	479	37.950	51.860	27.385	0.00	0.00
ATOM	7296	N	ALA	X	480	39.998	52.729	27.276	0.00	0.00
ATOM	7297	H	ALA	X	480	40.952	52.460	27.081	0.00	0.00
ATOM	7298	CA	ALA	X	480	39.641	54.005	27.873	0.00	0.00
ATOM	7299	HA	ALA	X	480	39.239	53.865	28.877	0.00	0.00
ATOM	7300	CB	ALA	X	480	40.964	54.780	28.099	0.00	0.00
ATOM	7301	HB1	ALA	X	480	41.761	54.205	28.570	0.00	0.00
ATOM	7302	HB2	ALA	X	480	41.413	55.132	27.170	0.00	0.00
ATOM	7303	HB3	ALA	X	480	40.916	55.665	28.734	0.00	0.00
ATOM	7304	C	ALA	X	480	38.643	54.921	27.083	0.00	0.00
ATOM	7305	O	ALA	X	480	37.887	55.619	27.784	0.00	0.00
ATOM	7306	N	ARG	X	481	38.706	54.940	25.743	0.00	0.00
ATOM	7307	H	ARG	X	481	39.491	54.440	25.351	0.00	0.00
ATOM	7308	CA	ARG	X	481	37.893	55.701	24.779	0.00	0.00
ATOM	7309	HA	ARG	X	481	37.857	56.753	25.063	0.00	0.00
ATOM	7310	CB	ARG	X	481	38.426	55.639	23.363	0.00	0.00
ATOM	7311	HB2	ARG	X	481	38.721	54.611	23.148	0.00	0.00
ATOM	7312	HB3	ARG	X	481	37.572	56.029	22.810	0.00	0.00
ATOM	7313	CG	ARG	X	481	39.584	56.578	23.020	0.00	0.00
ATOM	7314	HG2	ARG	X	481	39.196	57.569	23.255	0.00	0.00
ATOM	7315	HG3	ARG	X	481	40.383	56.391	23.737	0.00	0.00
ATOM	7316	CD	ARG	X	481	40.114	56.506	21.593	0.00	0.00
ATOM	7317	HD2	ARG	X	481	39.968	55.460	21.324	0.00	0.00
ATOM	7318	HD3	ARG	X	481	39.438	57.091	20.969	0.00	0.00

ATOM	7319	NE	ARG	X	481	41.435	57.088	21.527	0.00	0.00
ATOM	7320	HE	ARG	X	481	41.449	58.070	21.766	0.00	0.00
ATOM	7321	CZ	ARG	X	481	42.578	56.466	21.285	0.00	0.00
ATOM	7322	NH1	ARG	X	481	42.750	55.177	21.213	0.00	0.00
ATOM	7323	HH11	ARG	X	481	41.995	54.507	21.212	0.00	0.00
ATOM	7324	HH12	ARG	X	481	43.675	54.773	21.242	0.00	0.00
ATOM	7325	NH2	ARG	X	481	43.715	57.090	21.174	0.00	0.00
ATOM	7326	HH21	ARG	X	481	43.751	58.020	21.565	0.00	0.00
ATOM	7327	HH22	ARG	X	481	44.506	56.555	20.844	0.00	0.00
ATOM	7328	C	ARG	X	481	36.390	55.209	24.867	0.00	0.00
ATOM	7329	O	ARG	X	481	35.548	56.023	25.263	0.00	0.00
ATOM	7330	N	THR	X	482	36.166	53.991	24.387	0.00	0.00
ATOM	7331	H	THR	X	482	36.955	53.554	23.932	0.00	0.00
ATOM	7332	CA	THR	X	482	34.843	53.326	24.137	0.00	0.00
ATOM	7333	HA	THR	X	482	34.084	54.105	24.209	0.00	0.00
ATOM	7334	CB	THR	X	482	34.651	52.762	22.737	0.00	0.00
ATOM	7335	HB	THR	X	482	33.783	52.115	22.858	0.00	0.00
ATOM	7336	CG2	THR	X	482	34.488	53.833	21.724	0.00	0.00
ATOM	7337	HG21	THR	X	482	35.377	54.459	21.794	0.00	0.00
ATOM	7338	HG22	THR	X	482	34.245	53.346	20.779	0.00	0.00
ATOM	7339	HG23	THR	X	482	33.699	54.550	21.952	0.00	0.00
ATOM	7340	OG1	THR	X	482	35.697	51.857	22.447	0.00	0.00
ATOM	7341	HG1	THR	X	482	35.601	51.624	21.520	0.00	0.00
ATOM	7342	C	THR	X	482	34.498	52.177	25.121	0.00	0.00
ATOM	7343	O	THR	X	482	33.391	52.110	25.556	0.00	0.00
ATOM	7344	N	GLY	X	483	35.457	51.454	25.615	0.00	0.00
ATOM	7345	H	GLY	X	483	36.394	51.714	25.344	0.00	0.00
ATOM	7346	CA	GLY	X	483	35.330	50.164	26.447	0.00	0.00
ATOM	7347	HA2	GLY	X	483	36.069	50.206	27.256	0.00	0.00
ATOM	7348	HA3	GLY	X	483	34.254	50.019	26.822	0.00	0.00
ATOM	7349	C	GLY	X	483	35.450	48.893	25.637	0.00	0.00
ATOM	7350	O	GLY	X	483	35.635	47.811	26.252	0.00	0.00
ATOM	7351	N	ASP	X	484	35.516	49.025	24.287	0.00	0.00
ATOM	7352	H	ASP	X	484	35.530	49.965	23.916	0.00	0.00
ATOM	7353	CA	ASP	X	484	36.107	48.006	23.413	0.00	0.00
ATOM	7354	HA	ASP	X	484	35.958	47.061	23.936	0.00	0.00
ATOM	7355	CB	ASP	X	484	35.192	48.015	22.207	0.00	0.00
ATOM	7356	HB2	ASP	X	484	34.993	49.026	21.853	0.00	0.00
ATOM	7357	HB3	ASP	X	484	35.624	47.536	21.328	0.00	0.00
ATOM	7358	CG	ASP	X	484	33.750	47.570	22.249	0.00	0.00
ATOM	7359	OD1	ASP	X	484	33.062	47.522	21.212	0.00	0.00
ATOM	7360	OD2	ASP	X	484	33.239	47.155	23.369	0.00	0.00
ATOM	7361	C	ASP	X	484	37.533	48.346	22.965	0.00	0.00
ATOM	7362	O	ASP	X	484	37.795	49.486	22.569	0.00	0.00
ATOM	7363	N	PRO	X	485	38.394	47.339	23.032	0.00	0.00
ATOM	7364	CD	PRO	X	485	38.336	46.029	23.709	0.00	0.00
ATOM	7365	HD2	PRO	X	485	37.900	45.297	23.030	0.00	0.00
ATOM	7366	HD3	PRO	X	485	37.729	46.164	24.603	0.00	0.00
ATOM	7367	CG	PRO	X	485	39.765	45.644	24.204	0.00	0.00
ATOM	7368	HG2	PRO	X	485	39.867	44.559	24.201	0.00	0.00
ATOM	7369	HG3	PRO	X	485	39.959	46.104	25.173	0.00	0.00
ATOM	7370	CB	PRO	X	485	40.601	46.241	23.093	0.00	0.00
ATOM	7371	HB2	PRO	X	485	40.677	45.504	22.293	0.00	0.00
ATOM	7372	HB3	PRO	X	485	41.584	46.420	23.528	0.00	0.00
ATOM	7373	CA	PRO	X	485	39.817	47.461	22.576	0.00	0.00
ATOM	7374	HA	PRO	X	485	40.161	48.360	23.087	0.00	0.00
ATOM	7375	C	PRO	X	485	40.046	47.642	21.069	0.00	0.00
ATOM	7376	O	PRO	X	485	41.183	48.020	20.747	0.00	0.00
ATOM	7377	N	ASN	X	486	38.992	47.405	20.273	0.00	0.00
ATOM	7378	H	ASN	X	486	38.116	46.985	20.551	0.00	0.00
ATOM	7379	CA	ASN	X	486	39.120	47.670	18.836	0.00	0.00
ATOM	7380	HA	ASN	X	486	40.187	47.753	18.629	0.00	0.00
ATOM	7381	CB	ASN	X	486	38.409	46.516	18.055	0.00	0.00
ATOM	7382	HB2	ASN	X	486	38.544	46.745	16.998	0.00	0.00
ATOM	7383	HB3	ASN	X	486	38.890	45.555	18.238	0.00	0.00
ATOM	7384	CG	ASN	X	486	36.953	46.483	18.427	0.00	0.00
ATOM	7385	OD1	ASN	X	486	36.614	45.794	19.361	0.00	0.00
ATOM	7386	ND2	ASN	X	486	36.150	47.325	17.786	0.00	0.00
ATOM	7387	HD21	ASN	X	486	35.160	47.370	17.977	0.00	0.00
ATOM	7388	HD22	ASN	X	486	36.495	48.029	17.149	0.00	0.00

ATOM	7389	C	ASN	X	486	38.578	49.018	18.470	0.00	0.00
ATOM	7390	O	ASN	X	486	37.870	49.692	19.240	0.00	0.00
ATOM	7391	N	GLU	X	487	38.935	49.528	17.273	0.00	0.00
ATOM	7392	H	GLU	X	487	39.518	49.008	16.633	0.00	0.00
ATOM	7393	CA	GLU	X	487	38.415	50.844	16.718	0.00	0.00
ATOM	7394	HA	GLU	X	487	38.842	51.686	17.264	0.00	0.00
ATOM	7395	CB	GLU	X	487	38.910	51.093	15.272	0.00	0.00
ATOM	7396	HB2	GLU	X	487	38.551	50.305	14.610	0.00	0.00
ATOM	7397	HB3	GLU	X	487	38.491	52.045	14.946	0.00	0.00
ATOM	7398	CG	GLU	X	487	40.444	51.160	15.155	0.00	0.00
ATOM	7399	HG2	GLU	X	487	40.928	50.228	15.447	0.00	0.00
ATOM	7400	HG3	GLU	X	487	40.608	51.255	14.082	0.00	0.00
ATOM	7401	CD	GLU	X	487	41.101	52.385	15.744	0.00	0.00
ATOM	7402	OE1	GLU	X	487	40.531	53.378	16.215	0.00	0.00
ATOM	7403	OE2	GLU	X	487	42.355	52.336	15.802	0.00	0.00
ATOM	7404	C	GLU	X	487	36.877	50.928	16.662	0.00	0.00
ATOM	7405	O	GLU	X	487	36.301	49.880	16.378	0.00	0.00
ATOM	7406	N	PRO	X	488	36.284	52.099	16.670	0.00	0.00
ATOM	7407	CD	PRO	X	488	36.852	53.311	17.345	0.00	0.00
ATOM	7408	HD2	PRO	X	488	37.767	53.609	16.833	0.00	0.00
ATOM	7409	HD3	PRO	X	488	37.055	53.105	18.396	0.00	0.00
ATOM	7410	CG	PRO	X	488	35.739	54.293	17.193	0.00	0.00
ATOM	7411	HG2	PRO	X	488	35.902	54.869	16.282	0.00	0.00
ATOM	7412	HG3	PRO	X	488	35.799	54.987	18.032	0.00	0.00
ATOM	7413	CB	PRO	X	488	34.396	53.603	17.142	0.00	0.00
ATOM	7414	HB2	PRO	X	488	33.636	54.196	16.632	0.00	0.00
ATOM	7415	HB3	PRO	X	488	34.159	53.400	18.186	0.00	0.00
ATOM	7416	CA	PRO	X	488	34.865	52.321	16.383	0.00	0.00
ATOM	7417	HA	PRO	X	488	34.268	51.562	16.888	0.00	0.00
ATOM	7418	C	PRO	X	488	34.670	52.406	14.822	0.00	0.00
ATOM	7419	O	PRO	X	488	33.902	53.165	14.366	0.00	0.00
ATOM	7420	N	ARG	X	489	35.408	51.610	14.098	0.00	0.00
ATOM	7421	H	ARG	X	489	36.003	50.979	14.617	0.00	0.00
ATOM	7422	CA	ARG	X	489	35.826	51.751	12.650	0.00	0.00
ATOM	7423	HA	ARG	X	489	35.000	51.494	11.987	0.00	0.00
ATOM	7424	CB	ARG	X	489	35.993	53.180	12.157	0.00	0.00
ATOM	7425	HB2	ARG	X	489	36.297	53.075	11.116	0.00	0.00
ATOM	7426	HB3	ARG	X	489	35.093	53.771	12.331	0.00	0.00
ATOM	7427	CG	ARG	X	489	37.150	53.974	12.874	0.00	0.00
ATOM	7428	HG2	ARG	X	489	37.004	53.981	13.954	0.00	0.00
ATOM	7429	HG3	ARG	X	489	38.088	53.468	12.647	0.00	0.00
ATOM	7430	CD	ARG	X	489	37.165	55.453	12.417	0.00	0.00
ATOM	7431	HD2	ARG	X	489	38.085	55.940	12.741	0.00	0.00
ATOM	7432	HD3	ARG	X	489	37.090	55.308	11.339	0.00	0.00
ATOM	7433	NE	ARG	X	489	36.065	56.210	12.965	0.00	0.00
ATOM	7434	HE	ARG	X	489	35.250	56.150	12.372	0.00	0.00
ATOM	7435	CZ	ARG	X	489	35.939	56.964	14.015	0.00	0.00
ATOM	7436	NH1	ARG	X	489	34.729	57.396	14.395	0.00	0.00
ATOM	7437	HH11	ARG	X	489	33.954	57.009	13.876	0.00	0.00
ATOM	7438	HH12	ARG	X	489	34.500	57.723	15.323	0.00	0.00
ATOM	7439	NH2	ARG	X	489	36.963	57.186	14.805	0.00	0.00
ATOM	7440	HH21	ARG	X	489	37.812	56.742	14.483	0.00	0.00
ATOM	7441	HH22	ARG	X	489	36.943	57.559	15.743	0.00	0.00
ATOM	7442	C	ARG	X	489	36.901	50.761	12.299	0.00	0.00
ATOM	7443	O	ARG	X	489	38.048	51.057	12.014	0.00	0.00
ATOM	7444	N	ASP	X	490	36.540	49.508	12.661	0.00	0.00
ATOM	7445	H	ASP	X	490	35.601	49.370	13.006	0.00	0.00
ATOM	7446	CA	ASP	X	490	37.458	48.374	12.714	0.00	0.00
ATOM	7447	HA	ASP	X	490	38.382	48.856	13.034	0.00	0.00
ATOM	7448	CB	ASP	X	490	36.895	47.348	13.714	0.00	0.00
ATOM	7449	HB2	ASP	X	490	37.582	46.512	13.844	0.00	0.00
ATOM	7450	HB3	ASP	X	490	36.815	47.765	14.718	0.00	0.00
ATOM	7451	CG	ASP	X	490	35.403	46.832	13.508	0.00	0.00
ATOM	7452	OD1	ASP	X	490	34.505	47.625	13.904	0.00	0.00
ATOM	7453	OD2	ASP	X	490	35.139	45.697	13.089	0.00	0.00
ATOM	7454	C	ASP	X	490	37.514	47.605	11.373	0.00	0.00
ATOM	7455	O	ASP	X	490	36.487	47.255	10.812	0.00	0.00
ATOM	7456	N	PRO	X	491	38.743	47.365	10.875	0.00	0.00
ATOM	7457	CD	PRO	X	491	40.087	47.542	11.416	0.00	0.00
ATOM	7458	HD2	PRO	X	491	40.154	46.905	12.297	0.00	0.00

ATOM	7459	HD3	PRO	X	491	40.348	48.578	11.636	0.00	0.00
ATOM	7460	CG	PRO	X	491	41.145	47.105	10.424	0.00	0.00
ATOM	7461	HG2	PRO	X	491	41.408	46.063	10.602	0.00	0.00
ATOM	7462	HG3	PRO	X	491	42.080	47.661	10.486	0.00	0.00
ATOM	7463	CB	PRO	X	491	40.423	47.225	9.117	0.00	0.00
ATOM	7464	HB2	PRO	X	491	40.877	46.617	8.334	0.00	0.00
ATOM	7465	HB3	PRO	X	491	40.459	48.299	8.935	0.00	0.00
ATOM	7466	CA	PRO	X	491	38.936	46.776	9.474	0.00	0.00
ATOM	7467	HA	PRO	X	491	38.168	47.190	8.821	0.00	0.00
ATOM	7468	C	PRO	X	491	38.838	45.307	9.465	0.00	0.00
ATOM	7469	O	PRO	X	491	38.739	44.718	10.508	0.00	0.00
ATOM	7470	N	LYS	X	492	38.760	44.703	8.246	0.00	0.00
ATOM	7471	H	LYS	X	492	38.842	45.313	7.445	0.00	0.00
ATOM	7472	CA	LYS	X	492	38.420	43.286	7.991	0.00	0.00
ATOM	7473	HA	LYS	X	492	37.558	43.150	8.644	0.00	0.00
ATOM	7474	CB	LYS	X	492	38.017	43.060	6.495	0.00	0.00
ATOM	7475	HB2	LYS	X	492	37.529	42.093	6.367	0.00	0.00
ATOM	7476	HB3	LYS	X	492	37.352	43.875	6.209	0.00	0.00
ATOM	7477	CG	LYS	X	492	39.211	43.023	5.541	0.00	0.00
ATOM	7478	HG2	LYS	X	492	40.041	43.615	5.927	0.00	0.00
ATOM	7479	HG3	LYS	X	492	39.602	42.006	5.549	0.00	0.00
ATOM	7480	CD	LYS	X	492	38.812	43.430	4.125	0.00	0.00
ATOM	7481	HD2	LYS	X	492	38.091	42.717	3.724	0.00	0.00
ATOM	7482	HD3	LYS	X	492	38.306	44.392	4.047	0.00	0.00
ATOM	7483	CE	LYS	X	492	40.074	43.439	3.279	0.00	0.00
ATOM	7484	HE2	LYS	X	492	40.847	42.746	3.610	0.00	0.00
ATOM	7485	HE3	LYS	X	492	39.758	43.121	2.286	0.00	0.00
ATOM	7486	NZ	LYS	X	492	40.623	44.783	3.185	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	39.892	45.419	2.900	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	41.070	45.204	3.987	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	41.396	44.739	2.537	0.00	0.00
ATOM	7490	C	LYS	X	492	39.389	42.202	8.422	0.00	0.00
ATOM	7491	O	LYS	X	492	39.296	41.028	8.190	0.00	0.00
ATOM	7492	N	ALA	X	493	40.397	42.736	9.239	0.00	0.00
ATOM	7493	H	ALA	X	493	40.367	43.735	9.390	0.00	0.00
ATOM	7494	CA	ALA	X	493	41.489	41.958	9.815	0.00	0.00
ATOM	7495	HA	ALA	X	493	41.767	41.061	9.260	0.00	0.00
ATOM	7496	CB	ALA	X	493	42.757	42.798	10.011	0.00	0.00
ATOM	7497	HB1	ALA	X	493	43.372	42.434	10.833	0.00	0.00
ATOM	7498	HB2	ALA	X	493	43.229	42.942	9.039	0.00	0.00
ATOM	7499	HB3	ALA	X	493	42.442	43.793	10.326	0.00	0.00
ATOM	7500	C	ALA	X	493	41.084	41.512	11.284	0.00	0.00
ATOM	7501	O	ALA	X	493	40.234	42.156	11.841	0.00	0.00
ATOM	7502	N	PRO	X	494	41.663	40.443	11.885	0.00	0.00
ATOM	7503	CD	PRO	X	494	42.778	39.663	11.384	0.00	0.00
ATOM	7504	HD2	PRO	X	494	43.664	40.298	11.365	0.00	0.00
ATOM	7505	HD3	PRO	X	494	42.624	39.070	10.482	0.00	0.00
ATOM	7506	CG	PRO	X	494	43.020	38.568	12.422	0.00	0.00
ATOM	7507	HG2	PRO	X	494	43.765	38.882	13.153	0.00	0.00
ATOM	7508	HG3	PRO	X	494	43.440	37.730	11.865	0.00	0.00
ATOM	7509	CB	PRO	X	494	41.643	38.334	12.999	0.00	0.00
ATOM	7510	HB2	PRO	X	494	41.660	37.922	14.009	0.00	0.00
ATOM	7511	HB3	PRO	X	494	41.155	37.600	12.358	0.00	0.00
ATOM	7512	CA	PRO	X	494	41.048	39.740	12.977	0.00	0.00
ATOM	7513	HA	PRO	X	494	39.997	39.685	12.693	0.00	0.00
ATOM	7514	C	PRO	X	494	41.215	40.531	14.282	0.00	0.00
ATOM	7515	O	PRO	X	494	42.253	41.012	14.535	0.00	0.00
ATOM	7516	N	GLN	X	495	40.132	40.541	15.076	0.00	0.00
ATOM	7517	H	GLN	X	495	39.342	40.038	14.696	0.00	0.00
ATOM	7518	CA	GLN	X	495	39.885	41.440	16.120	0.00	0.00
ATOM	7519	HA	GLN	X	495	40.818	41.993	16.231	0.00	0.00
ATOM	7520	CB	GLN	X	495	38.780	42.525	15.836	0.00	0.00
ATOM	7521	HB2	GLN	X	495	37.835	41.989	15.757	0.00	0.00
ATOM	7522	HB3	GLN	X	495	38.773	43.256	16.645	0.00	0.00
ATOM	7523	CG	GLN	X	495	39.094	43.348	14.558	0.00	0.00
ATOM	7524	HG2	GLN	X	495	39.205	42.647	13.731	0.00	0.00
ATOM	7525	HG3	GLN	X	495	38.110	43.795	14.415	0.00	0.00
ATOM	7526	CD	GLN	X	495	40.257	44.328	14.538	0.00	0.00
ATOM	7527	OE1	GLN	X	495	40.631	44.943	15.535	0.00	0.00
ATOM	7528	NE2	GLN	X	495	40.937	44.520	13.432	0.00	0.00

ATOM	7529	HE21	GLN	X	495	41.667	45.218	13.441	0.00	0.00
ATOM	7530	HE22	GLN	X	495	40.644	44.174	12.529	0.00	0.00
ATOM	7531	C	GLN	X	495	39.660	40.722	17.416	0.00	0.00
ATOM	7532	O	GLN	X	495	39.375	39.534	17.484	0.00	0.00
ATOM	7533	N	TRP	X	496	39.773	41.428	18.510	0.00	0.00
ATOM	7534	H	TRP	X	496	39.758	42.431	18.392	0.00	0.00
ATOM	7535	CA	TRP	X	496	39.708	40.920	19.865	0.00	0.00
ATOM	7536	HA	TRP	X	496	40.080	39.895	19.858	0.00	0.00
ATOM	7537	CB	TRP	X	496	40.547	41.940	20.636	0.00	0.00
ATOM	7538	HB2	TRP	X	496	41.568	42.012	20.261	0.00	0.00
ATOM	7539	HB3	TRP	X	496	40.143	42.948	20.539	0.00	0.00
ATOM	7540	CG	TRP	X	496	40.744	41.724	22.125	0.00	0.00
ATOM	7541	CD1	TRP	X	496	40.115	40.857	22.946	0.00	0.00
ATOM	7542	HD1	TRP	X	496	39.322	40.172	22.683	0.00	0.00
ATOM	7543	NE1	TRP	X	496	40.604	40.910	24.189	0.00	0.00
ATOM	7544	HE1	TRP	X	496	40.137	40.292	24.837	0.00	0.00
ATOM	7545	CE2	TRP	X	496	41.632	41.799	24.360	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	42.473	42.154	25.371	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	42.416	41.643	26.321	0.00	0.00
ATOM	7548	CH2	TRP	X	496	43.436	43.169	25.224	0.00	0.00
ATOM	7549	HH2	TRP	X	496	44.034	43.342	26.107	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	43.614	43.759	24.003	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	44.360	44.510	23.789	0.00	0.00
ATOM	7552	CE3	TRP	X	496	42.842	43.261	22.893	0.00	0.00
ATOM	7553	HE3	TRP	X	496	42.972	43.645	21.892	0.00	0.00
ATOM	7554	CD2	TRP	X	496	41.749	42.337	23.064	0.00	0.00
ATOM	7555	C	TRP	X	496	38.234	40.847	20.342	0.00	0.00
ATOM	7556	O	TRP	X	496	37.603	41.880	20.394	0.00	0.00
ATOM	7557	N	PRO	X	497	37.677	39.677	20.650	0.00	0.00
ATOM	7558	CD	PRO	X	497	38.178	38.268	20.352	0.00	0.00
ATOM	7559	HD2	PRO	X	497	39.138	38.004	20.797	0.00	0.00
ATOM	7560	HD3	PRO	X	497	38.333	38.295	19.273	0.00	0.00
ATOM	7561	CG	PRO	X	497	37.036	37.310	20.682	0.00	0.00
ATOM	7562	HG2	PRO	X	497	37.140	37.035	21.731	0.00	0.00
ATOM	7563	HG3	PRO	X	497	36.932	36.471	19.994	0.00	0.00
ATOM	7564	CB	PRO	X	497	35.825	38.170	20.509	0.00	0.00
ATOM	7565	HB2	PRO	X	497	35.027	37.888	21.195	0.00	0.00
ATOM	7566	HB3	PRO	X	497	35.594	38.187	19.444	0.00	0.00
ATOM	7567	CA	PRO	X	497	36.232	39.598	20.977	0.00	0.00
ATOM	7568	HA	PRO	X	497	35.643	40.341	20.439	0.00	0.00
ATOM	7569	C	PRO	X	497	35.995	39.785	22.483	0.00	0.00
ATOM	7570	O	PRO	X	497	36.837	39.284	23.242	0.00	0.00
ATOM	7571	N	PRO	X	498	34.778	40.267	22.915	0.00	0.00
ATOM	7572	CD	PRO	X	498	33.627	40.533	22.098	0.00	0.00
ATOM	7573	HD2	PRO	X	498	33.327	39.684	21.483	0.00	0.00
ATOM	7574	HD3	PRO	X	498	33.867	41.336	21.401	0.00	0.00
ATOM	7575	CG	PRO	X	498	32.501	40.801	23.038	0.00	0.00
ATOM	7576	HG2	PRO	X	498	31.785	39.979	23.042	0.00	0.00
ATOM	7577	HG3	PRO	X	498	31.935	41.682	22.734	0.00	0.00
ATOM	7578	CB	PRO	X	498	33.103	40.943	24.365	0.00	0.00
ATOM	7579	HB2	PRO	X	498	32.414	40.554	25.115	0.00	0.00
ATOM	7580	HB3	PRO	X	498	33.212	42.012	24.551	0.00	0.00
ATOM	7581	CA	PRO	X	498	34.384	40.145	24.250	0.00	0.00
ATOM	7582	HA	PRO	X	498	35.090	40.673	24.890	0.00	0.00
ATOM	7583	C	PRO	X	498	34.271	38.701	24.722	0.00	0.00
ATOM	7584	O	PRO	X	498	33.908	37.799	23.955	0.00	0.00
ATOM	7585	N	TYR	X	499	34.605	38.526	26.010	0.00	0.00
ATOM	7586	H	TYR	X	499	34.921	39.337	26.521	0.00	0.00
ATOM	7587	CA	TYR	X	499	34.519	37.252	26.757	0.00	0.00
ATOM	7588	HA	TYR	X	499	34.828	36.471	26.062	0.00	0.00
ATOM	7589	CB	TYR	X	499	35.722	37.429	27.782	0.00	0.00
ATOM	7590	HB2	TYR	X	499	36.578	37.517	27.112	0.00	0.00
ATOM	7591	HB3	TYR	X	499	35.545	38.363	28.313	0.00	0.00
ATOM	7592	CG	TYR	X	499	36.086	36.256	28.757	0.00	0.00
ATOM	7593	CD1	TYR	X	499	35.284	35.833	29.831	0.00	0.00
ATOM	7594	HD1	TYR	X	499	34.345	36.331	30.023	0.00	0.00
ATOM	7595	CE1	TYR	X	499	35.655	34.836	30.773	0.00	0.00
ATOM	7596	HE1	TYR	X	499	34.956	34.504	31.526	0.00	0.00
ATOM	7597	CZ	TYR	X	499	36.986	34.276	30.698	0.00	0.00
ATOM	7598	OH	TYR	X	499	37.441	33.170	31.388	0.00	0.00

ATOM	7599	HH	TYR	X	499	36.777	32.773	31.956	0.00	0.00
ATOM	7600	CE2	TYR	X	499	37.791	34.605	29.576	0.00	0.00
ATOM	7601	HE2	TYR	X	499	38.770	34.150	29.538	0.00	0.00
ATOM	7602	CD2	TYR	X	499	37.292	35.606	28.621	0.00	0.00
ATOM	7603	HD2	TYR	X	499	37.984	35.925	27.856	0.00	0.00
ATOM	7604	C	TYR	X	499	33.157	36.960	27.353	0.00	0.00
ATOM	7605	O	TYR	X	499	32.560	37.871	27.971	0.00	0.00
ATOM	7606	N	THR	X	500	32.672	35.722	27.238	0.00	0.00
ATOM	7607	H	THR	X	500	33.284	35.085	26.747	0.00	0.00
ATOM	7608	CA	THR	X	500	31.442	35.273	27.861	0.00	0.00
ATOM	7609	HA	THR	X	500	30.982	36.085	28.425	0.00	0.00
ATOM	7610	CB	THR	X	500	30.563	34.769	26.725	0.00	0.00
ATOM	7611	HB	THR	X	500	29.661	34.401	27.213	0.00	0.00
ATOM	7612	CG2	THR	X	500	30.275	35.778	25.597	0.00	0.00
ATOM	7613	HG21	THR	X	500	31.092	35.826	24.876	0.00	0.00
ATOM	7614	HG22	THR	X	500	29.329	35.445	25.172	0.00	0.00
ATOM	7615	HG23	THR	X	500	30.041	36.796	25.908	0.00	0.00
ATOM	7616	OG1	THR	X	500	31.099	33.549	26.253	0.00	0.00
ATOM	7617	HG1	THR	X	500	30.330	33.095	25.902	0.00	0.00
ATOM	7618	C	THR	X	500	31.773	34.248	28.867	0.00	0.00
ATOM	7619	O	THR	X	500	32.665	33.413	28.733	0.00	0.00
ATOM	7620	N	ALA	X	501	30.985	34.192	29.884	0.00	0.00
ATOM	7621	H	ALA	X	501	30.159	34.764	29.775	0.00	0.00
ATOM	7622	CA	ALA	X	501	31.063	33.171	30.897	0.00	0.00
ATOM	7623	HA	ALA	X	501	31.989	33.378	31.434	0.00	0.00
ATOM	7624	CB	ALA	X	501	30.020	33.492	32.005	0.00	0.00
ATOM	7625	HB1	ALA	X	501	30.236	34.473	32.428	0.00	0.00
ATOM	7626	HB2	ALA	X	501	28.972	33.522	31.707	0.00	0.00
ATOM	7627	HB3	ALA	X	501	30.100	32.769	32.817	0.00	0.00
ATOM	7628	C	ALA	X	501	31.085	31.675	30.467	0.00	0.00
ATOM	7629	O	ALA	X	501	31.837	30.822	30.993	0.00	0.00
ATOM	7630	N	GLY	X	502	30.378	31.428	29.363	0.00	0.00
ATOM	7631	H	GLY	X	502	29.642	32.089	29.158	0.00	0.00
ATOM	7632	CA	GLY	X	502	30.272	30.035	28.926	0.00	0.00
ATOM	7633	HA2	GLY	X	502	30.216	29.385	29.740	0.00	0.00
ATOM	7634	HA3	GLY	X	502	29.476	29.902	28.189	0.00	0.00
ATOM	7635	C	GLY	X	502	31.535	29.641	28.123	0.00	0.00
ATOM	7636	O	GLY	X	502	32.157	28.625	28.427	0.00	0.00
ATOM	7637	N	ALA	X	503	31.903	30.418	27.108	0.00	0.00
ATOM	7638	H	ALA	X	503	31.329	31.239	26.986	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.990	30.190	26.161	0.00	0.00
ATOM	7640	HA	ALA	X	503	33.268	29.142	26.047	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.449	30.680	24.881	0.00	0.00
ATOM	7642	HB1	ALA	X	503	32.477	31.768	24.828	0.00	0.00
ATOM	7643	HB2	ALA	X	503	33.135	30.316	24.116	0.00	0.00
ATOM	7644	HB3	ALA	X	503	31.510	30.160	24.694	0.00	0.00
ATOM	7645	C	ALA	X	503	34.388	30.761	26.492	0.00	0.00
ATOM	7646	O	ALA	X	503	35.402	30.103	26.110	0.00	0.00
ATOM	7647	N	GLN	X	504	34.438	31.787	27.335	0.00	0.00
ATOM	7648	H	GLN	X	504	33.600	32.197	27.722	0.00	0.00
ATOM	7649	CA	GLN	X	504	35.660	32.199	28.082	0.00	0.00
ATOM	7650	HA	GLN	X	504	35.469	33.208	28.447	0.00	0.00
ATOM	7651	CB	GLN	X	504	35.957	31.125	29.164	0.00	0.00
ATOM	7652	HB2	GLN	X	504	36.358	30.266	28.626	0.00	0.00
ATOM	7653	HB3	GLN	X	504	36.749	31.480	29.824	0.00	0.00
ATOM	7654	CG	GLN	X	504	34.803	30.646	30.050	0.00	0.00
ATOM	7655	HG2	GLN	X	504	34.637	31.414	30.806	0.00	0.00
ATOM	7656	HG3	GLN	X	504	33.928	30.503	29.418	0.00	0.00
ATOM	7657	CD	GLN	X	504	35.069	29.373	30.807	0.00	0.00
ATOM	7658	OE1	GLN	X	504	34.813	28.266	30.364	0.00	0.00
ATOM	7659	NE2	GLN	X	504	35.619	29.430	32.022	0.00	0.00
ATOM	7660	HE21	GLN	X	504	35.947	28.532	32.345	0.00	0.00
ATOM	7661	HE22	GLN	X	504	35.850	30.313	32.455	0.00	0.00
ATOM	7662	C	GLN	X	504	36.876	32.447	27.199	0.00	0.00
ATOM	7663	O	GLN	X	504	38.012	32.077	27.463	0.00	0.00
ATOM	7664	N	GLN	X	505	36.680	33.217	26.139	0.00	0.00
ATOM	7665	H	GLN	X	505	35.746	33.560	25.969	0.00	0.00
ATOM	7666	CA	GLN	X	505	37.606	33.551	25.096	0.00	0.00
ATOM	7667	HA	GLN	X	505	38.198	32.636	25.105	0.00	0.00
ATOM	7668	CB	GLN	X	505	36.905	33.620	23.672	0.00	0.00

ATOM	7669	HB2	GLN	X	505	36.228	34.474	23.718	0.00	0.00
ATOM	7670	HB3	GLN	X	505	37.635	33.737	22.871	0.00	0.00
ATOM	7671	CG	GLN	X	505	36.040	32.408	23.370	0.00	0.00
ATOM	7672	HG2	GLN	X	505	36.775	31.607	23.449	0.00	0.00
ATOM	7673	HG3	GLN	X	505	35.227	32.368	24.095	0.00	0.00
ATOM	7674	CD	GLN	X	505	35.548	32.484	21.908	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.292	32.070	20.958	0.00	0.00
ATOM	7676	NE2	GLN	X	505	34.326	32.885	21.628	0.00	0.00
ATOM	7677	HE21	GLN	X	505	34.117	32.997	20.646	0.00	0.00
ATOM	7678	HE22	GLN	X	505	33.770	33.098	22.444	0.00	0.00
ATOM	7679	C	GLN	X	505	38.519	34.757	25.282	0.00	0.00
ATOM	7680	O	GLN	X	505	38.101	35.892	25.378	0.00	0.00
ATOM	7681	N	TYR	X	506	39.830	34.453	25.376	0.00	0.00
ATOM	7682	H	TYR	X	506	39.961	33.452	25.345	0.00	0.00
ATOM	7683	CA	TYR	X	506	41.031	35.266	25.698	0.00	0.00
ATOM	7684	HA	TYR	X	506	40.719	36.290	25.900	0.00	0.00
ATOM	7685	CB	TYR	X	506	41.723	34.635	26.901	0.00	0.00
ATOM	7686	HB2	TYR	X	506	42.421	35.415	27.205	0.00	0.00
ATOM	7687	HB3	TYR	X	506	41.160	34.605	27.833	0.00	0.00
ATOM	7688	CG	TYR	X	506	42.450	33.319	26.667	0.00	0.00
ATOM	7689	CD1	TYR	X	506	41.747	32.079	26.693	0.00	0.00
ATOM	7690	HD1	TYR	X	506	40.672	32.017	26.774	0.00	0.00
ATOM	7691	CE1	TYR	X	506	42.431	30.870	26.620	0.00	0.00
ATOM	7692	HE1	TYR	X	506	42.031	29.871	26.529	0.00	0.00
ATOM	7693	CZ	TYR	X	506	43.784	30.926	26.325	0.00	0.00
ATOM	7694	OH	TYR	X	506	44.535	29.733	26.167	0.00	0.00
ATOM	7695	HH	TYR	X	506	43.955	29.018	26.440	0.00	0.00
ATOM	7696	CE2	TYR	X	506	44.542	32.164	26.314	0.00	0.00
ATOM	7697	HE2	TYR	X	506	45.616	32.251	26.251	0.00	0.00
ATOM	7698	CD2	TYR	X	506	43.846	33.378	26.426	0.00	0.00
ATOM	7699	HD2	TYR	X	506	44.408	34.296	26.519	0.00	0.00
ATOM	7700	C	TYR	X	506	42.016	35.395	24.489	0.00	0.00
ATOM	7701	O	TYR	X	506	42.109	34.374	23.782	0.00	0.00
ATOM	7702	N	VAL	X	507	42.636	36.551	24.197	0.00	0.00
ATOM	7703	H	VAL	X	507	42.406	37.340	24.785	0.00	0.00
ATOM	7704	CA	VAL	X	507	43.551	36.679	23.074	0.00	0.00
ATOM	7705	HA	VAL	X	507	43.116	36.071	22.280	0.00	0.00
ATOM	7706	CB	VAL	X	507	43.617	38.099	22.402	0.00	0.00
ATOM	7707	HB	VAL	X	507	44.111	38.087	21.431	0.00	0.00
ATOM	7708	CG1	VAL	X	507	42.209	38.512	21.933	0.00	0.00
ATOM	7709	HG11	VAL	X	507	41.828	37.723	21.285	0.00	0.00
ATOM	7710	HG12	VAL	X	507	41.635	38.706	22.839	0.00	0.00
ATOM	7711	HG13	VAL	X	507	42.178	39.442	21.364	0.00	0.00
ATOM	7712	CG2	VAL	X	507	44.272	39.276	23.133	0.00	0.00
ATOM	7713	HG21	VAL	X	507	45.296	39.008	23.392	0.00	0.00
ATOM	7714	HG22	VAL	X	507	44.334	40.116	22.442	0.00	0.00
ATOM	7715	HG23	VAL	X	507	43.667	39.404	24.031	0.00	0.00
ATOM	7716	C	VAL	X	507	44.951	36.183	23.386	0.00	0.00
ATOM	7717	O	VAL	X	507	45.361	36.144	24.587	0.00	0.00
ATOM	7718	N	SER	X	508	45.746	35.955	22.347	0.00	0.00
ATOM	7719	H	SER	X	508	45.289	35.928	21.447	0.00	0.00
ATOM	7720	CA	SER	X	508	47.226	35.906	22.375	0.00	0.00
ATOM	7721	HA	SER	X	508	47.677	35.786	23.360	0.00	0.00
ATOM	7722	CB	SER	X	508	47.787	34.768	21.547	0.00	0.00
ATOM	7723	HB2	SER	X	508	47.166	34.684	20.655	0.00	0.00
ATOM	7724	HB3	SER	X	508	48.776	35.048	21.184	0.00	0.00
ATOM	7725	OG	SER	X	508	47.726	33.557	22.247	0.00	0.00
ATOM	7726	HG	SER	X	508	48.652	33.305	22.278	0.00	0.00
ATOM	7727	C	SER	X	508	47.763	37.295	21.935	0.00	0.00
ATOM	7728	O	SER	X	508	47.661	37.636	20.810	0.00	0.00
ATOM	7729	N	LEU	X	509	48.340	38.092	22.857	0.00	0.00
ATOM	7730	H	LEU	X	509	48.533	37.736	23.782	0.00	0.00
ATOM	7731	CA	LEU	X	509	49.056	39.310	22.472	0.00	0.00
ATOM	7732	HA	LEU	X	509	48.610	39.791	21.602	0.00	0.00
ATOM	7733	CB	LEU	X	509	49.085	40.309	23.696	0.00	0.00
ATOM	7734	HB2	LEU	X	509	49.604	39.911	24.568	0.00	0.00
ATOM	7735	HB3	LEU	X	509	49.750	41.132	23.438	0.00	0.00
ATOM	7736	CG	LEU	X	509	47.709	40.731	24.066	0.00	0.00
ATOM	7737	HG	LEU	X	509	47.201	39.929	24.601	0.00	0.00
ATOM	7738	CD1	LEU	X	509	47.911	41.648	25.263	0.00	0.00

ATOM	7739	HD11	LEU	X	509	48.430	42.557	24.958	0.00	0.00
ATOM	7740	HD12	LEU	X	509	46.940	41.939	25.662	0.00	0.00
ATOM	7741	HD13	LEU	X	509	48.568	41.273	26.048	0.00	0.00
ATOM	7742	CD2	LEU	X	509	46.785	41.466	23.066	0.00	0.00
ATOM	7743	HD21	LEU	X	509	45.880	41.778	23.587	0.00	0.00
ATOM	7744	HD22	LEU	X	509	47.345	42.284	22.611	0.00	0.00
ATOM	7745	HD23	LEU	X	509	46.356	40.815	22.305	0.00	0.00
ATOM	7746	C	LEU	X	509	50.497	38.919	22.103	0.00	0.00
ATOM	7747	O	LEU	X	509	51.125	38.190	22.857	0.00	0.00
ATOM	7748	N	ASP	X	510	50.947	39.293	20.888	0.00	0.00
ATOM	7749	H	ASP	X	510	50.270	39.822	20.358	0.00	0.00
ATOM	7750	CA	ASP	X	510	52.029	38.740	20.132	0.00	0.00
ATOM	7751	HA	ASP	X	510	52.845	38.686	20.852	0.00	0.00
ATOM	7752	CB	ASP	X	510	51.593	37.330	19.724	0.00	0.00
ATOM	7753	HB2	ASP	X	510	51.177	36.725	20.530	0.00	0.00
ATOM	7754	HB3	ASP	X	510	50.850	37.416	18.932	0.00	0.00
ATOM	7755	CG	ASP	X	510	52.767	36.585	19.191	0.00	0.00
ATOM	7756	OD1	ASP	X	510	53.790	36.455	19.869	0.00	0.00
ATOM	7757	OD2	ASP	X	510	52.706	36.228	18.026	0.00	0.00
ATOM	7758	C	ASP	X	510	52.441	39.619	18.959	0.00	0.00
ATOM	7759	O	ASP	X	510	51.678	40.545	18.582	0.00	0.00
ATOM	7760	N	LEU	X	511	53.441	39.168	18.199	0.00	0.00
ATOM	7761	H	LEU	X	511	53.877	38.296	18.461	0.00	0.00
ATOM	7762	CA	LEU	X	511	53.761	39.780	16.915	0.00	0.00
ATOM	7763	HA	LEU	X	511	53.794	40.853	17.101	0.00	0.00
ATOM	7764	CB	LEU	X	511	55.228	39.445	16.577	0.00	0.00
ATOM	7765	HB2	LEU	X	511	55.439	38.387	16.422	0.00	0.00
ATOM	7766	HB3	LEU	X	511	55.379	39.844	15.574	0.00	0.00
ATOM	7767	CG	LEU	X	511	56.286	39.907	17.585	0.00	0.00
ATOM	7768	HG	LEU	X	511	56.219	39.189	18.403	0.00	0.00
ATOM	7769	CD1	LEU	X	511	57.659	40.013	17.046	0.00	0.00
ATOM	7770	HD11	LEU	X	511	58.454	40.447	17.653	0.00	0.00
ATOM	7771	HD12	LEU	X	511	57.892	38.967	16.850	0.00	0.00
ATOM	7772	HD13	LEU	X	511	57.658	40.685	16.188	0.00	0.00
ATOM	7773	CD2	LEU	X	511	56.124	41.334	18.117	0.00	0.00
ATOM	7774	HD21	LEU	X	511	55.208	41.302	18.707	0.00	0.00
ATOM	7775	HD22	LEU	X	511	56.908	41.667	18.797	0.00	0.00
ATOM	7776	HD23	LEU	X	511	56.048	42.077	17.323	0.00	0.00
ATOM	7777	C	LEU	X	511	52.802	39.395	15.775	0.00	0.00
ATOM	7778	O	LEU	X	511	52.502	40.265	14.904	0.00	0.00
ATOM	7779	N	ARG	X	512	52.224	38.148	15.671	0.00	0.00
ATOM	7780	H	ARG	X	512	52.569	37.456	16.321	0.00	0.00
ATOM	7781	CA	ARG	X	512	51.153	37.691	14.751	0.00	0.00
ATOM	7782	HA	ARG	X	512	51.507	37.993	13.765	0.00	0.00
ATOM	7783	CB	ARG	X	512	51.083	36.143	14.789	0.00	0.00
ATOM	7784	HB2	ARG	X	512	50.459	35.754	13.984	0.00	0.00
ATOM	7785	HB3	ARG	X	512	52.024	35.711	14.449	0.00	0.00
ATOM	7786	CG	ARG	X	512	50.569	35.472	16.014	0.00	0.00
ATOM	7787	HG2	ARG	X	512	50.723	36.063	16.916	0.00	0.00
ATOM	7788	HG3	ARG	X	512	49.482	35.408	16.065	0.00	0.00
ATOM	7789	CD	ARG	X	512	51.103	34.026	16.229	0.00	0.00
ATOM	7790	HD2	ARG	X	512	50.899	33.573	15.260	0.00	0.00
ATOM	7791	HD3	ARG	X	512	52.170	34.023	16.456	0.00	0.00
ATOM	7792	NE	ARG	X	512	50.323	33.260	17.254	0.00	0.00
ATOM	7793	HE	ARG	X	512	49.480	32.823	16.910	0.00	0.00
ATOM	7794	CZ	ARG	X	512	50.686	33.184	18.565	0.00	0.00
ATOM	7795	NH1	ARG	X	512	51.743	33.772	19.098	0.00	0.00
ATOM	7796	HH11	ARG	X	512	52.239	34.404	18.487	0.00	0.00
ATOM	7797	HH12	ARG	X	512	51.896	33.589	20.079	0.00	0.00
ATOM	7798	NH2	ARG	X	512	49.946	32.397	19.345	0.00	0.00
ATOM	7799	HH21	ARG	X	512	49.207	31.867	18.906	0.00	0.00
ATOM	7800	HH22	ARG	X	512	50.160	32.357	20.331	0.00	0.00
ATOM	7801	C	ARG	X	512	49.781	38.307	14.921	0.00	0.00
ATOM	7802	O	ARG	X	512	49.424	38.679	15.987	0.00	0.00
ATOM	7803	N	PRO	X	513	48.901	38.384	13.921	0.00	0.00
ATOM	7804	CD	PRO	X	513	49.204	38.097	12.557	0.00	0.00
ATOM	7805	HD2	PRO	X	513	49.774	37.172	12.640	0.00	0.00
ATOM	7806	HD3	PRO	X	513	49.770	38.926	12.132	0.00	0.00
ATOM	7807	CG	PRO	X	513	47.917	37.943	11.783	0.00	0.00
ATOM	7808	HG2	PRO	X	513	47.717	36.872	11.774	0.00	0.00

ATOM	7809	HG3	PRO	X	513	48.023	38.360	10.781	0.00	0.00
ATOM	7810	CB	PRO	X	513	46.975	38.827	12.583	0.00	0.00
ATOM	7811	HB2	PRO	X	513	45.966	38.442	12.435	0.00	0.00
ATOM	7812	HB3	PRO	X	513	47.053	39.845	12.200	0.00	0.00
ATOM	7813	CA	PRO	X	513	47.514	38.756	14.034	0.00	0.00
ATOM	7814	HA	PRO	X	513	47.582	39.765	14.441	0.00	0.00
ATOM	7815	C	PRO	X	513	46.711	37.869	14.929	0.00	0.00
ATOM	7816	O	PRO	X	513	46.865	36.679	15.048	0.00	0.00
ATOM	7817	N	LEU	X	514	45.828	38.574	15.602	0.00	0.00
ATOM	7818	H	LEU	X	514	45.668	39.516	15.275	0.00	0.00
ATOM	7819	CA	LEU	X	514	45.101	38.183	16.790	0.00	0.00
ATOM	7820	HA	LEU	X	514	45.804	38.134	17.622	0.00	0.00
ATOM	7821	CB	LEU	X	514	44.070	39.295	17.204	0.00	0.00
ATOM	7822	HB2	LEU	X	514	43.624	39.689	16.291	0.00	0.00
ATOM	7823	HB3	LEU	X	514	43.289	38.949	17.881	0.00	0.00
ATOM	7824	CG	LEU	X	514	44.682	40.484	17.952	0.00	0.00
ATOM	7825	HG	LEU	X	514	45.538	40.791	17.352	0.00	0.00
ATOM	7826	CD1	LEU	X	514	43.628	41.571	18.112	0.00	0.00
ATOM	7827	HD11	LEU	X	514	43.288	42.010	17.174	0.00	0.00
ATOM	7828	HD12	LEU	X	514	42.737	41.179	18.604	0.00	0.00
ATOM	7829	HD13	LEU	X	514	43.992	42.316	18.819	0.00	0.00
ATOM	7830	CD2	LEU	X	514	45.120	40.101	19.366	0.00	0.00
ATOM	7831	HD21	LEU	X	514	44.280	39.770	19.978	0.00	0.00
ATOM	7832	HD22	LEU	X	514	45.867	39.310	19.311	0.00	0.00
ATOM	7833	HD23	LEU	X	514	45.647	40.900	19.889	0.00	0.00
ATOM	7834	C	LEU	X	514	44.507	36.758	16.697	0.00	0.00
ATOM	7835	O	LEU	X	514	43.336	36.544	16.390	0.00	0.00
ATOM	7836	N	GLU	X	515	45.222	35.793	17.264	0.00	0.00
ATOM	7837	H	GLU	X	515	46.123	36.108	17.594	0.00	0.00
ATOM	7838	CA	GLU	X	515	44.758	34.446	17.598	0.00	0.00
ATOM	7839	HA	GLU	X	515	44.098	34.091	16.806	0.00	0.00
ATOM	7840	CB	GLU	X	515	45.953	33.546	17.546	0.00	0.00
ATOM	7841	HB2	GLU	X	515	46.588	33.838	16.711	0.00	0.00
ATOM	7842	HB3	GLU	X	515	46.585	33.825	18.389	0.00	0.00
ATOM	7843	CG	GLU	X	515	45.672	32.034	17.578	0.00	0.00
ATOM	7844	HG2	GLU	X	515	45.589	31.692	18.609	0.00	0.00
ATOM	7845	HG3	GLU	X	515	44.830	31.833	16.915	0.00	0.00
ATOM	7846	CD	GLU	X	515	46.868	31.414	17.017	0.00	0.00
ATOM	7847	OE1	GLU	X	515	47.659	30.943	17.872	0.00	0.00
ATOM	7848	OE2	GLU	X	515	47.060	31.221	15.764	0.00	0.00
ATOM	7849	C	GLU	X	515	43.909	34.416	18.914	0.00	0.00
ATOM	7850	O	GLU	X	515	44.400	34.799	19.982	0.00	0.00
ATOM	7851	N	VAL	X	516	42.617	33.990	18.827	0.00	0.00
ATOM	7852	H	VAL	X	516	42.252	33.634	17.955	0.00	0.00
ATOM	7853	CA	VAL	X	516	41.629	33.992	19.879	0.00	0.00
ATOM	7854	HA	VAL	X	516	42.060	34.579	20.689	0.00	0.00
ATOM	7855	CB	VAL	X	516	40.245	34.441	19.396	0.00	0.00
ATOM	7856	HB	VAL	X	516	39.969	33.762	18.589	0.00	0.00
ATOM	7857	CG1	VAL	X	516	39.112	34.245	20.415	0.00	0.00
ATOM	7858	HG11	VAL	X	516	38.150	34.487	19.962	0.00	0.00
ATOM	7859	HG12	VAL	X	516	39.069	33.234	20.820	0.00	0.00
ATOM	7860	HG13	VAL	X	516	39.288	34.903	21.266	0.00	0.00
ATOM	7861	CG2	VAL	X	516	40.274	35.861	18.851	0.00	0.00
ATOM	7862	HG21	VAL	X	516	39.315	36.369	18.746	0.00	0.00
ATOM	7863	HG22	VAL	X	516	40.748	36.473	19.618	0.00	0.00
ATOM	7864	HG23	VAL	X	516	40.819	35.897	17.908	0.00	0.00
ATOM	7865	C	VAL	X	516	41.386	32.609	20.364	0.00	0.00
ATOM	7866	O	VAL	X	516	41.043	31.690	19.603	0.00	0.00
ATOM	7867	N	ARG	X	517	41.628	32.376	21.708	0.00	0.00
ATOM	7868	H	ARG	X	517	41.826	33.163	22.309	0.00	0.00
ATOM	7869	CA	ARG	X	517	41.662	30.975	22.257	0.00	0.00
ATOM	7870	HA	ARG	X	517	41.596	30.190	21.504	0.00	0.00
ATOM	7871	CB	ARG	X	517	42.961	30.723	23.044	0.00	0.00
ATOM	7872	HB2	ARG	X	517	43.472	31.674	23.191	0.00	0.00
ATOM	7873	HB3	ARG	X	517	42.741	30.113	23.921	0.00	0.00
ATOM	7874	CG	ARG	X	517	43.941	29.812	22.251	0.00	0.00
ATOM	7875	HG2	ARG	X	517	43.574	28.791	22.353	0.00	0.00
ATOM	7876	HG3	ARG	X	517	43.954	30.024	21.181	0.00	0.00
ATOM	7877	CD	ARG	X	517	45.355	29.790	22.780	0.00	0.00
ATOM	7878	HD2	ARG	X	517	45.842	30.765	22.759	0.00	0.00

ATOM	7879	HD3	ARG	X	517	45.313	29.326	23.765	0.00	0.00
ATOM	7880	NE	ARG	X	517	46.222	28.894	21.977	0.00	0.00
ATOM	7881	HE	ARG	X	517	46.495	28.045	22.451	0.00	0.00
ATOM	7882	CZ	ARG	X	517	46.947	29.236	20.924	0.00	0.00
ATOM	7883	NH1	ARG	X	517	46.866	30.457	20.449	0.00	0.00
ATOM	7884	HH11	ARG	X	517	46.415	31.192	20.975	0.00	0.00
ATOM	7885	HH12	ARG	X	517	47.381	30.747	19.630	0.00	0.00
ATOM	7886	NH2	ARG	X	517	47.616	28.284	20.294	0.00	0.00
ATOM	7887	HH21	ARG	X	517	47.538	27.354	20.680	0.00	0.00
ATOM	7888	HH22	ARG	X	517	48.379	28.582	19.703	0.00	0.00
ATOM	7889	C	ARG	X	517	40.539	30.778	23.230	0.00	0.00
ATOM	7890	O	ARG	X	517	40.153	31.619	24.020	0.00	0.00
ATOM	7891	N	ARG	X	518	39.875	29.655	23.088	0.00	0.00
ATOM	7892	H	ARG	X	518	40.114	29.006	22.352	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.810	29.308	24.035	0.00	0.00
ATOM	7894	HA	ARG	X	518	38.184	30.199	24.083	0.00	0.00
ATOM	7895	CB	ARG	X	518	38.014	28.252	23.425	0.00	0.00
ATOM	7896	HB2	ARG	X	518	37.924	28.489	22.365	0.00	0.00
ATOM	7897	HB3	ARG	X	518	38.578	27.325	23.523	0.00	0.00
ATOM	7898	CG	ARG	X	518	36.597	28.173	23.947	0.00	0.00
ATOM	7899	HG2	ARG	X	518	36.514	27.977	25.016	0.00	0.00
ATOM	7900	HG3	ARG	X	518	36.271	29.199	23.773	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.703	27.226	23.138	0.00	0.00
ATOM	7902	HD2	ARG	X	518	35.997	27.272	22.090	0.00	0.00
ATOM	7903	HD3	ARG	X	518	35.897	26.212	23.488	0.00	0.00
ATOM	7904	NE	ARG	X	518	34.254	27.602	23.301	0.00	0.00
ATOM	7905	HE	ARG	X	518	33.826	27.023	24.008	0.00	0.00
ATOM	7906	CZ	ARG	X	518	33.416	28.330	22.545	0.00	0.00
ATOM	7907	NH1	ARG	X	518	33.852	29.076	21.576	0.00	0.00
ATOM	7908	HH11	ARG	X	518	34.851	29.166	21.454	0.00	0.00
ATOM	7909	HH12	ARG	X	518	33.213	29.573	20.972	0.00	0.00
ATOM	7910	NH2	ARG	X	518	32.079	28.239	22.718	0.00	0.00
ATOM	7911	HH21	ARG	X	518	31.745	27.641	23.460	0.00	0.00
ATOM	7912	HH22	ARG	X	518	31.380	28.785	22.234	0.00	0.00
ATOM	7913	C	ARG	X	518	39.462	28.858	25.444	0.00	0.00
ATOM	7914	O	ARG	X	518	40.528	28.269	25.512	0.00	0.00
ATOM	7915	N	GLY	X	519	38.751	29.116	26.568	0.00	0.00
ATOM	7916	H	GLY	X	519	37.865	29.567	26.391	0.00	0.00
ATOM	7917	CA	GLY	X	519	38.774	28.369	27.774	0.00	0.00
ATOM	7918	HA2	GLY	X	519	37.830	28.393	28.363	0.00	0.00
ATOM	7919	HA3	GLY	X	519	38.840	27.302	27.517	0.00	0.00
ATOM	7920	C	GLY	X	519	39.874	28.775	28.725	0.00	0.00
ATOM	7921	O	GLY	X	519	40.818	27.994	28.848	0.00	0.00
ATOM	7922	N	LEU	X	520	39.813	30.014	29.237	0.00	0.00
ATOM	7923	H	LEU	X	520	39.065	30.633	28.959	0.00	0.00
ATOM	7924	CA	LEU	X	520	41.042	30.555	29.890	0.00	0.00
ATOM	7925	HA	LEU	X	520	41.912	30.487	29.237	0.00	0.00
ATOM	7926	CB	LEU	X	520	40.690	32.078	30.260	0.00	0.00
ATOM	7927	HB2	LEU	X	520	40.403	32.624	29.361	0.00	0.00
ATOM	7928	HB3	LEU	X	520	39.818	32.062	30.914	0.00	0.00
ATOM	7929	CG	LEU	X	520	41.828	32.803	31.081	0.00	0.00
ATOM	7930	HG	LEU	X	520	41.950	32.112	31.916	0.00	0.00
ATOM	7931	CD1	LEU	X	520	43.126	32.938	30.194	0.00	0.00
ATOM	7932	HD11	LEU	X	520	43.313	31.912	29.877	0.00	0.00
ATOM	7933	HD12	LEU	X	520	42.980	33.650	29.382	0.00	0.00
ATOM	7934	HD13	LEU	X	520	43.975	33.191	30.829	0.00	0.00
ATOM	7935	CD2	LEU	X	520	41.387	34.191	31.392	0.00	0.00
ATOM	7936	HD21	LEU	X	520	41.356	34.892	30.558	0.00	0.00
ATOM	7937	HD22	LEU	X	520	40.387	34.124	31.821	0.00	0.00
ATOM	7938	HD23	LEU	X	520	42.036	34.542	32.194	0.00	0.00
ATOM	7939	C	LEU	X	520	41.442	29.603	31.099	0.00	0.00
ATOM	7940	O	LEU	X	520	40.834	29.591	32.150	0.00	0.00
ATOM	7941	N	ARG	X	521	42.577	28.865	30.903	0.00	0.00
ATOM	7942	H	ARG	X	521	43.131	29.094	30.090	0.00	0.00
ATOM	7943	CA	ARG	X	521	43.174	27.780	31.676	0.00	0.00
ATOM	7944	HA	ARG	X	521	43.943	27.248	31.116	0.00	0.00
ATOM	7945	CB	ARG	X	521	43.856	28.530	32.837	0.00	0.00
ATOM	7946	HB2	ARG	X	521	44.334	29.455	32.516	0.00	0.00
ATOM	7947	HB3	ARG	X	521	43.095	28.832	33.556	0.00	0.00
ATOM	7948	CG	ARG	X	521	45.046	27.726	33.490	0.00	0.00

ATOM	7949	HG2	ARG	X	521	45.311	28.145	34.461	0.00	0.00
ATOM	7950	HG3	ARG	X	521	44.718	26.717	33.740	0.00	0.00
ATOM	7951	CD	ARG	X	521	46.246	27.754	32.523	0.00	0.00
ATOM	7952	HD2	ARG	X	521	46.002	27.266	31.579	0.00	0.00
ATOM	7953	HD3	ARG	X	521	46.541	28.768	32.255	0.00	0.00
ATOM	7954	NE	ARG	X	521	47.399	27.175	33.065	0.00	0.00
ATOM	7955	HE	ARG	X	521	47.646	27.369	34.024	0.00	0.00
ATOM	7956	CZ	ARG	X	521	48.320	26.561	32.394	0.00	0.00
ATOM	7957	NH1	ARG	X	521	48.493	26.591	31.081	0.00	0.00
ATOM	7958	HH11	ARG	X	521	48.010	27.302	30.551	0.00	0.00
ATOM	7959	HH12	ARG	X	521	49.313	26.142	30.698	0.00	0.00
ATOM	7960	NH2	ARG	X	521	49.110	25.818	33.135	0.00	0.00
ATOM	7961	HH21	ARG	X	521	49.102	25.986	34.131	0.00	0.00
ATOM	7962	HH22	ARG	X	521	49.897	25.426	32.638	0.00	0.00
ATOM	7963	C	ARG	X	521	42.136	26.765	32.146	0.00	0.00
ATOM	7964	O	ARG	X	521	42.264	26.237	33.253	0.00	0.00
ATOM	7965	N	ALA	X	522	41.063	26.570	31.447	0.00	0.00
ATOM	7966	H	ALA	X	522	41.069	26.861	30.480	0.00	0.00
ATOM	7967	CA	ALA	X	522	39.753	26.006	31.925	0.00	0.00
ATOM	7968	HA	ALA	X	522	39.526	26.612	32.803	0.00	0.00
ATOM	7969	CB	ALA	X	522	38.572	26.088	30.933	0.00	0.00
ATOM	7970	HB1	ALA	X	522	37.792	25.525	31.446	0.00	0.00
ATOM	7971	HB2	ALA	X	522	38.241	27.101	30.709	0.00	0.00
ATOM	7972	HB3	ALA	X	522	38.745	25.602	29.972	0.00	0.00
ATOM	7973	C	ALA	X	522	39.833	24.562	32.494	0.00	0.00
ATOM	7974	O	ALA	X	522	39.374	24.275	33.634	0.00	0.00
ATOM	7975	N	GLN	X	523	40.484	23.754	31.754	0.00	0.00
ATOM	7976	H	GLN	X	523	40.897	24.159	30.926	0.00	0.00
ATOM	7977	CA	GLN	X	523	40.584	22.286	32.011	0.00	0.00
ATOM	7978	HA	GLN	X	523	39.627	21.904	32.366	0.00	0.00
ATOM	7979	CB	GLN	X	523	40.936	21.633	30.691	0.00	0.00
ATOM	7980	HB2	GLN	X	523	41.895	22.066	30.406	0.00	0.00
ATOM	7981	HB3	GLN	X	523	41.016	20.552	30.799	0.00	0.00
ATOM	7982	CG	GLN	X	523	39.889	21.633	29.511	0.00	0.00
ATOM	7983	HG2	GLN	X	523	40.298	21.006	28.719	0.00	0.00
ATOM	7984	HG3	GLN	X	523	38.933	21.262	29.881	0.00	0.00
ATOM	7985	CD	GLN	X	523	39.656	22.948	28.899	0.00	0.00
ATOM	7986	OE1	GLN	X	523	40.562	23.755	28.863	0.00	0.00
ATOM	7987	NE2	GLN	X	523	38.447	23.143	28.422	0.00	0.00
ATOM	7988	HE21	GLN	X	523	38.263	23.976	27.881	0.00	0.00
ATOM	7989	HE22	GLN	X	523	37.731	22.442	28.551	0.00	0.00
ATOM	7990	C	GLN	X	523	41.744	21.951	33.105	0.00	0.00
ATOM	7991	O	GLN	X	523	41.857	20.800	33.526	0.00	0.00
ATOM	7992	N	ALA	X	524	42.495	22.967	33.430	0.00	0.00
ATOM	7993	H	ALA	X	524	42.491	23.837	32.917	0.00	0.00
ATOM	7994	CA	ALA	X	524	43.386	22.858	34.563	0.00	0.00
ATOM	7995	HA	ALA	X	524	43.536	21.830	34.894	0.00	0.00
ATOM	7996	CB	ALA	X	524	44.665	23.595	34.339	0.00	0.00
ATOM	7997	HB1	ALA	X	524	45.458	23.348	35.045	0.00	0.00
ATOM	7998	HB2	ALA	X	524	45.013	23.295	33.350	0.00	0.00
ATOM	7999	HB3	ALA	X	524	44.542	24.676	34.406	0.00	0.00
ATOM	8000	C	ALA	X	524	42.786	23.435	35.759	0.00	0.00
ATOM	8001	O	ALA	X	524	42.739	22.806	36.813	0.00	0.00
ATOM	8002	N	CYX	X	525	42.193	24.634	35.744	0.00	0.00
ATOM	8003	H	CYX	X	525	42.218	25.134	34.867	0.00	0.00
ATOM	8004	CA	CYX	X	525	41.440	25.297	36.809	0.00	0.00
ATOM	8005	HA	CYX	X	525	42.131	25.433	37.641	0.00	0.00
ATOM	8006	CB	CYX	X	525	41.020	26.753	36.571	0.00	0.00
ATOM	8007	HB2	CYX	X	525	40.387	26.836	35.687	0.00	0.00
ATOM	8008	HB3	CYX	X	525	40.473	27.223	37.389	0.00	0.00
ATOM	8009	SG	CYX	X	525	42.440	27.748	36.201	0.00	0.00
ATOM	8010	C	CYX	X	525	40.221	24.545	37.392	0.00	0.00
ATOM	8011	O	CYX	X	525	39.937	24.683	38.584	0.00	0.00
ATOM	8012	N	ALA	X	526	39.488	23.757	36.647	0.00	0.00
ATOM	8013	H	ALA	X	526	39.729	23.624	35.675	0.00	0.00
ATOM	8014	CA	ALA	X	526	38.418	22.912	37.172	0.00	0.00
ATOM	8015	HA	ALA	X	526	37.701	23.527	37.715	0.00	0.00
ATOM	8016	CB	ALA	X	526	37.784	22.150	35.963	0.00	0.00
ATOM	8017	HB1	ALA	X	526	37.234	22.761	35.247	0.00	0.00
ATOM	8018	HB2	ALA	X	526	38.529	21.615	35.375	0.00	0.00

ATOM	8019	HB3	ALA	X	526	37.044	21.391	36.219	0.00	0.00
ATOM	8020	C	ALA	X	526	38.889	21.867	38.238	0.00	0.00
ATOM	8021	O	ALA	X	526	38.093	21.599	39.138	0.00	0.00
ATOM	8022	N	PHE	X	527	40.174	21.420	38.174	0.00	0.00
ATOM	8023	H	PHE	X	527	40.865	21.632	37.468	0.00	0.00
ATOM	8024	CA	PHE	X	527	40.624	20.534	39.282	0.00	0.00
ATOM	8025	HA	PHE	X	527	39.954	19.711	39.532	0.00	0.00
ATOM	8026	CB	PHE	X	527	42.064	20.158	38.849	0.00	0.00
ATOM	8027	HB2	PHE	X	527	42.075	19.398	38.067	0.00	0.00
ATOM	8028	HB3	PHE	X	527	42.542	21.038	38.418	0.00	0.00
ATOM	8029	CG	PHE	X	527	43.022	19.719	40.009	0.00	0.00
ATOM	8030	CD1	PHE	X	527	42.997	18.392	40.434	0.00	0.00
ATOM	8031	HD1	PHE	X	527	42.227	17.767	40.006	0.00	0.00
ATOM	8032	CE1	PHE	X	527	43.807	17.954	41.439	0.00	0.00
ATOM	8033	HE1	PHE	X	527	43.646	16.944	41.786	0.00	0.00
ATOM	8034	CZ	PHE	X	527	44.820	18.821	41.909	0.00	0.00
ATOM	8035	HZ	PHE	X	527	45.457	18.466	42.706	0.00	0.00
ATOM	8036	CE2	PHE	X	527	44.799	20.131	41.518	0.00	0.00
ATOM	8037	HE2	PHE	X	527	45.460	20.813	42.032	0.00	0.00
ATOM	8038	CD2	PHE	X	527	43.882	20.641	40.579	0.00	0.00
ATOM	8039	HD2	PHE	X	527	43.778	21.700	40.393	0.00	0.00
ATOM	8040	C	PHE	X	527	40.678	21.293	40.654	0.00	0.00
ATOM	8041	O	PHE	X	527	40.363	20.745	41.717	0.00	0.00
ATOM	8042	N	TRP	X	528	40.783	22.628	40.607	0.00	0.00
ATOM	8043	H	TRP	X	528	40.915	23.084	39.716	0.00	0.00
ATOM	8044	CA	TRP	X	528	40.906	23.464	41.866	0.00	0.00
ATOM	8045	HA	TRP	X	528	41.385	22.851	42.629	0.00	0.00
ATOM	8046	CB	TRP	X	528	41.864	24.639	41.607	0.00	0.00
ATOM	8047	HB2	TRP	X	528	41.449	25.321	40.865	0.00	0.00
ATOM	8048	HB3	TRP	X	528	41.950	25.278	42.486	0.00	0.00
ATOM	8049	CG	TRP	X	528	43.276	24.379	41.299	0.00	0.00
ATOM	8050	CD1	TRP	X	528	43.792	24.679	40.078	0.00	0.00
ATOM	8051	HD1	TRP	X	528	43.253	25.177	39.286	0.00	0.00
ATOM	8052	NE1	TRP	X	528	45.163	24.362	40.058	0.00	0.00
ATOM	8053	HE1	TRP	X	528	45.799	24.555	39.297	0.00	0.00
ATOM	8054	CE2	TRP	X	528	45.538	23.874	41.337	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	46.795	23.464	41.794	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	47.670	23.538	41.164	0.00	0.00
ATOM	8057	CH2	TRP	X	528	46.928	23.279	43.172	0.00	0.00
ATOM	8058	HH2	TRP	X	528	47.883	22.951	43.556	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	45.788	23.228	44.003	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	45.936	22.940	45.033	0.00	0.00
ATOM	8061	CE3	TRP	X	528	44.498	23.429	43.445	0.00	0.00
ATOM	8062	HE3	TRP	X	528	43.615	23.266	44.045	0.00	0.00
ATOM	8063	CD2	TRP	X	528	44.399	23.898	42.117	0.00	0.00
ATOM	8064	C	TRP	X	528	39.569	23.894	42.380	0.00	0.00
ATOM	8065	O	TRP	X	528	39.396	24.174	43.574	0.00	0.00
ATOM	8066	N	ASN	X	529	38.546	24.041	41.555	0.00	0.00
ATOM	8067	H	ASN	X	529	38.759	23.840	40.589	0.00	0.00
ATOM	8068	CA	ASN	X	529	37.130	24.303	41.933	0.00	0.00
ATOM	8069	HA	ASN	X	529	37.093	25.010	42.763	0.00	0.00
ATOM	8070	CB	ASN	X	529	36.419	24.972	40.719	0.00	0.00
ATOM	8071	HB2	ASN	X	529	36.637	24.373	39.835	0.00	0.00
ATOM	8072	HB3	ASN	X	529	35.338	25.070	40.817	0.00	0.00
ATOM	8073	CG	ASN	X	529	36.951	26.361	40.376	0.00	0.00
ATOM	8074	OD1	ASN	X	529	37.539	27.066	41.169	0.00	0.00
ATOM	8075	ND2	ASN	X	529	36.675	26.770	39.171	0.00	0.00
ATOM	8076	HD21	ASN	X	529	36.684	27.771	39.037	0.00	0.00
ATOM	8077	HD22	ASN	X	529	36.273	26.173	38.462	0.00	0.00
ATOM	8078	C	ASN	X	529	36.236	23.112	42.189	0.00	0.00
ATOM	8079	O	ASN	X	529	35.373	23.233	43.030	0.00	0.00
ATOM	8080	N	ARG	X	530	36.508	21.923	41.516	0.00	0.00
ATOM	8081	H	ARG	X	530	37.221	21.913	40.801	0.00	0.00
ATOM	8082	CA	ARG	X	530	35.608	20.791	41.624	0.00	0.00
ATOM	8083	HA	ARG	X	530	34.826	21.117	42.311	0.00	0.00
ATOM	8084	CB	ARG	X	530	35.028	20.368	40.232	0.00	0.00
ATOM	8085	HB2	ARG	X	530	34.406	21.215	39.943	0.00	0.00
ATOM	8086	HB3	ARG	X	530	35.824	20.287	39.493	0.00	0.00
ATOM	8087	CG	ARG	X	530	34.086	19.202	40.296	0.00	0.00
ATOM	8088	HG2	ARG	X	530	34.614	18.342	40.708	0.00	0.00

ATOM	8089	HG3	ARG	X	530	33.289	19.466	40.993	0.00	0.00
ATOM	8090	CD	ARG	X	530	33.413	18.791	38.981	0.00	0.00
ATOM	8091	HD2	ARG	X	530	32.862	19.585	38.477	0.00	0.00
ATOM	8092	HD3	ARG	X	530	34.226	18.475	38.328	0.00	0.00
ATOM	8093	NE	ARG	X	530	32.528	17.599	39.150	0.00	0.00
ATOM	8094	HE	ARG	X	530	32.964	16.701	39.000	0.00	0.00
ATOM	8095	CZ	ARG	X	530	31.344	17.639	39.779	0.00	0.00
ATOM	8096	NH1	ARG	X	530	30.895	18.576	40.560	0.00	0.00
ATOM	8097	HH11	ARG	X	530	31.295	19.503	40.566	0.00	0.00
ATOM	8098	HH12	ARG	X	530	29.937	18.526	40.876	0.00	0.00
ATOM	8099	NH2	ARG	X	530	30.513	16.615	39.601	0.00	0.00
ATOM	8100	HH21	ARG	X	530	30.700	15.824	39.001	0.00	0.00
ATOM	8101	HH22	ARG	X	530	29.759	16.540	40.268	0.00	0.00
ATOM	8102	C	ARG	X	530	36.230	19.630	42.292	0.00	0.00
ATOM	8103	O	ARG	X	530	35.639	19.066	43.214	0.00	0.00
ATOM	8104	N	PHE	X	531	37.414	19.190	41.875	0.00	0.00
ATOM	8105	H	PHE	X	531	37.835	19.798	41.188	0.00	0.00
ATOM	8106	CA	PHE	X	531	38.093	17.995	42.369	0.00	0.00
ATOM	8107	HA	PHE	X	531	37.287	17.314	42.644	0.00	0.00
ATOM	8108	CB	PHE	X	531	39.055	17.494	41.329	0.00	0.00
ATOM	8109	HB2	PHE	X	531	38.526	17.316	40.393	0.00	0.00
ATOM	8110	HB3	PHE	X	531	39.790	18.275	41.139	0.00	0.00
ATOM	8111	CG	PHE	X	531	39.749	16.150	41.671	0.00	0.00
ATOM	8112	CD1	PHE	X	531	39.171	14.950	41.273	0.00	0.00
ATOM	8113	HD1	PHE	X	531	38.305	15.021	40.631	0.00	0.00
ATOM	8114	CE1	PHE	X	531	39.710	13.680	41.635	0.00	0.00
ATOM	8115	HE1	PHE	X	531	39.396	12.764	41.157	0.00	0.00
ATOM	8116	CZ	PHE	X	531	40.838	13.592	42.505	0.00	0.00
ATOM	8117	HZ	PHE	X	531	41.225	12.597	42.670	0.00	0.00
ATOM	8118	CE2	PHE	X	531	41.430	14.830	42.881	0.00	0.00
ATOM	8119	HE2	PHE	X	531	42.252	14.743	43.577	0.00	0.00
ATOM	8120	CD2	PHE	X	531	40.799	16.041	42.581	0.00	0.00
ATOM	8121	HD2	PHE	X	531	41.210	16.936	43.023	0.00	0.00
ATOM	8122	C	PHE	X	531	38.821	18.163	43.732	0.00	0.00
ATOM	8123	O	PHE	X	531	38.509	17.423	44.689	0.00	0.00
ATOM	8124	N	LEU	X	532	39.770	19.114	43.853	0.00	0.00
ATOM	8125	H	LEU	X	532	39.894	19.576	42.963	0.00	0.00
ATOM	8126	CA	LEU	X	532	40.735	19.345	44.994	0.00	0.00
ATOM	8127	HA	LEU	X	532	41.015	18.355	45.354	0.00	0.00
ATOM	8128	CB	LEU	X	532	41.981	20.131	44.506	0.00	0.00
ATOM	8129	HB2	LEU	X	532	42.316	19.879	43.499	0.00	0.00
ATOM	8130	HB3	LEU	X	532	41.859	21.214	44.511	0.00	0.00
ATOM	8131	CG	LEU	X	532	43.280	19.740	45.290	0.00	0.00
ATOM	8132	HG	LEU	X	532	44.068	20.095	44.626	0.00	0.00
ATOM	8133	CD1	LEU	X	532	43.286	20.607	46.585	0.00	0.00
ATOM	8134	HD11	LEU	X	532	42.608	20.203	47.337	0.00	0.00
ATOM	8135	HD12	LEU	X	532	44.245	20.719	47.091	0.00	0.00
ATOM	8136	HD13	LEU	X	532	42.918	21.618	46.415	0.00	0.00
ATOM	8137	CD2	LEU	X	532	43.358	18.247	45.527	0.00	0.00
ATOM	8138	HD21	LEU	X	532	44.375	18.162	45.910	0.00	0.00
ATOM	8139	HD22	LEU	X	532	42.692	17.942	46.334	0.00	0.00
ATOM	8140	HD23	LEU	X	532	43.225	17.713	44.586	0.00	0.00
ATOM	8141	C	LEU	X	532	40.025	19.873	46.282	0.00	0.00
ATOM	8142	O	LEU	X	532	40.302	19.355	47.356	0.00	0.00
ATOM	8143	N	PRO	X	533	38.970	20.681	46.219	0.00	0.00
ATOM	8144	CD	PRO	X	533	38.614	21.594	45.182	0.00	0.00
ATOM	8145	HD2	PRO	X	533	38.395	21.073	44.250	0.00	0.00
ATOM	8146	HD3	PRO	X	533	39.443	22.301	45.138	0.00	0.00
ATOM	8147	CG	PRO	X	533	37.314	22.227	45.622	0.00	0.00
ATOM	8148	HG2	PRO	X	533	36.555	21.503	45.325	0.00	0.00
ATOM	8149	HG3	PRO	X	533	37.159	23.158	45.077	0.00	0.00
ATOM	8150	CB	PRO	X	533	37.487	22.301	47.093	0.00	0.00
ATOM	8151	HB2	PRO	X	533	36.532	22.417	47.606	0.00	0.00
ATOM	8152	HB3	PRO	X	533	38.088	23.183	47.315	0.00	0.00
ATOM	8153	CA	PRO	X	533	38.293	21.045	47.407	0.00	0.00
ATOM	8154	HA	PRO	X	533	39.015	21.331	48.172	0.00	0.00
ATOM	8155	C	PRO	X	533	37.328	19.907	47.891	0.00	0.00
ATOM	8156	O	PRO	X	533	37.287	19.795	49.145	0.00	0.00
ATOM	8157	N	LYS	X	534	36.680	19.037	47.088	0.00	0.00
ATOM	8158	H	LYS	X	534	36.823	19.092	46.089	0.00	0.00

ATOM	8159	CA	LYS	X	534	35.971	17.859	47.637	0.00	0.00
ATOM	8160	HA	LYS	X	534	35.434	18.197	48.523	0.00	0.00
ATOM	8161	CB	LYS	X	534	35.125	17.257	46.451	0.00	0.00
ATOM	8162	HB2	LYS	X	534	35.791	17.360	45.594	0.00	0.00
ATOM	8163	HB3	LYS	X	534	34.876	16.206	46.596	0.00	0.00
ATOM	8164	CG	LYS	X	534	33.800	17.947	46.372	0.00	0.00
ATOM	8165	HG2	LYS	X	534	33.196	17.628	47.221	0.00	0.00
ATOM	8166	HG3	LYS	X	534	34.052	19.008	46.374	0.00	0.00
ATOM	8167	CD	LYS	X	534	32.976	17.717	45.094	0.00	0.00
ATOM	8168	HD2	LYS	X	534	33.614	17.933	44.237	0.00	0.00
ATOM	8169	HD3	LYS	X	534	32.545	16.717	45.053	0.00	0.00
ATOM	8170	CE	LYS	X	534	31.885	18.759	45.192	0.00	0.00
ATOM	8171	HE2	LYS	X	534	31.054	18.154	45.555	0.00	0.00
ATOM	8172	HE3	LYS	X	534	32.131	19.667	45.743	0.00	0.00
ATOM	8173	NZ	LYS	X	534	31.534	19.191	43.884	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	32.169	19.930	43.618	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	31.622	18.359	43.318	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	30.587	19.537	43.816	0.00	0.00
ATOM	8177	C	LYS	X	534	36.973	16.877	48.256	0.00	0.00
ATOM	8178	O	LYS	X	534	36.516	16.067	49.156	0.00	0.00
ATOM	8179	N	LEU	X	535	38.219	16.897	47.827	0.00	0.00
ATOM	8180	H	LEU	X	535	38.527	17.406	47.011	0.00	0.00
ATOM	8181	CA	LEU	X	535	39.223	16.045	48.442	0.00	0.00
ATOM	8182	HA	LEU	X	535	38.820	15.075	48.734	0.00	0.00
ATOM	8183	CB	LEU	X	535	40.324	15.810	47.453	0.00	0.00
ATOM	8184	HB2	LEU	X	535	39.884	15.396	46.546	0.00	0.00
ATOM	8185	HB3	LEU	X	535	40.721	16.786	47.173	0.00	0.00
ATOM	8186	CG	LEU	X	535	41.521	14.802	47.786	0.00	0.00
ATOM	8187	HG	LEU	X	535	42.269	15.155	48.495	0.00	0.00
ATOM	8188	CD1	LEU	X	535	40.868	13.529	48.196	0.00	0.00
ATOM	8189	HD11	LEU	X	535	41.528	12.723	47.874	0.00	0.00
ATOM	8190	HD12	LEU	X	535	40.910	13.403	49.278	0.00	0.00
ATOM	8191	HD13	LEU	X	535	39.942	13.259	47.688	0.00	0.00
ATOM	8192	CD2	LEU	X	535	42.417	14.506	46.546	0.00	0.00
ATOM	8193	HD21	LEU	X	535	42.977	15.425	46.373	0.00	0.00
ATOM	8194	HD22	LEU	X	535	43.141	13.704	46.690	0.00	0.00
ATOM	8195	HD23	LEU	X	535	41.791	14.352	45.668	0.00	0.00
ATOM	8196	C	LEU	X	535	39.745	16.652	49.784	0.00	0.00
ATOM	8197	O	LEU	X	535	40.002	15.887	50.664	0.00	0.00
ATOM	8198	N	LEU	X	536	39.813	17.982	49.991	0.00	0.00
ATOM	8199	H	LEU	X	536	39.758	18.651	49.236	0.00	0.00
ATOM	8200	CA	LEU	X	536	40.062	18.510	51.320	0.00	0.00
ATOM	8201	HA	LEU	X	536	40.889	18.004	51.817	0.00	0.00
ATOM	8202	CB	LEU	X	536	40.532	19.974	51.206	0.00	0.00
ATOM	8203	HB2	LEU	X	536	39.772	20.522	50.650	0.00	0.00
ATOM	8204	HB3	LEU	X	536	40.504	20.297	52.247	0.00	0.00
ATOM	8205	CG	LEU	X	536	41.872	20.345	50.575	0.00	0.00
ATOM	8206	HG	LEU	X	536	41.878	20.019	49.535	0.00	0.00
ATOM	8207	CD1	LEU	X	536	42.257	21.818	50.737	0.00	0.00
ATOM	8208	HD11	LEU	X	536	43.076	21.991	50.039	0.00	0.00
ATOM	8209	HD12	LEU	X	536	41.488	22.522	50.418	0.00	0.00
ATOM	8210	HD13	LEU	X	536	42.516	21.933	51.789	0.00	0.00
ATOM	8211	CD2	LEU	X	536	42.998	19.474	51.193	0.00	0.00
ATOM	8212	HD21	LEU	X	536	42.877	18.405	51.014	0.00	0.00
ATOM	8213	HD22	LEU	X	536	43.952	19.707	50.721	0.00	0.00
ATOM	8214	HD23	LEU	X	536	43.178	19.636	52.255	0.00	0.00
ATOM	8215	C	LEU	X	536	38.886	18.349	52.210	0.00	0.00
ATOM	8216	O	LEU	X	536	39.029	18.056	53.380	0.00	0.00
ATOM	8217	N	SER	X	537	37.722	18.418	51.620	0.00	0.00
ATOM	8218	H	SER	X	537	37.632	18.769	50.677	0.00	0.00
ATOM	8219	CA	SER	X	537	36.472	17.988	52.360	0.00	0.00
ATOM	8220	HA	SER	X	537	36.427	18.479	53.332	0.00	0.00
ATOM	8221	CB	SER	X	537	35.213	18.301	51.546	0.00	0.00
ATOM	8222	HB2	SER	X	537	35.309	17.620	50.701	0.00	0.00
ATOM	8223	HB3	SER	X	537	34.334	18.021	52.127	0.00	0.00
ATOM	8224	OG	SER	X	537	35.074	19.587	51.109	0.00	0.00
ATOM	8225	HG	SER	X	537	34.267	19.686	50.598	0.00	0.00
ATOM	8226	C	SER	X	537	36.306	16.508	52.559	0.00	0.00
ATOM	8227	O	SER	X	537	35.330	15.980	53.103	0.00	0.00
ATOM	8228	N	ALA	X	538	37.295	15.762	52.131	0.00	0.00

ATOM	8229	H	ALA	X	538	37.981	16.068	51.456	0.00	0.00
ATOM	8230	CA	ALA	X	538	37.340	14.302	52.414	0.00	0.00
ATOM	8231	HA	ALA	X	538	36.491	14.093	53.066	0.00	0.00
ATOM	8232	CB	ALA	X	538	37.192	13.536	51.038	0.00	0.00
ATOM	8233	HB1	ALA	X	538	37.977	13.808	50.332	0.00	0.00
ATOM	8234	HB2	ALA	X	538	37.281	12.455	51.143	0.00	0.00
ATOM	8235	HB3	ALA	X	538	36.216	13.745	50.598	0.00	0.00
ATOM	8236	C	ALA	X	538	38.537	13.796	53.240	0.00	0.00
ATOM	8237	O	ALA	X	538	38.359	12.659	53.782	0.00	0.00
ATOM	8238	N	THR	X	539	39.644	14.502	53.457	0.00	0.00
ATOM	8239	H	THR	X	539	39.828	15.389	53.011	0.00	0.00
ATOM	8240	CA	THR	X	539	40.816	13.914	54.122	0.00	0.00
ATOM	8241	HA	THR	X	539	40.625	12.872	54.379	0.00	0.00
ATOM	8242	CB	THR	X	539	42.067	14.094	53.231	0.00	0.00
ATOM	8243	HB	THR	X	539	42.995	13.979	53.790	0.00	0.00
ATOM	8244	CG2	THR	X	539	42.183	13.142	52.040	0.00	0.00
ATOM	8245	HG21	THR	X	539	42.244	12.106	52.375	0.00	0.00
ATOM	8246	HG22	THR	X	539	41.276	13.249	51.445	0.00	0.00
ATOM	8247	HG23	THR	X	539	43.069	13.387	51.455	0.00	0.00
ATOM	8248	OG1	THR	X	539	42.098	15.420	52.719	0.00	0.00
ATOM	8249	HG1	THR	X	539	41.512	15.490	51.962	0.00	0.00
ATOM	8250	C	THR	X	539	41.113	14.587	55.441	0.00	0.00
ATOM	8251	O	THR	X	539	40.405	15.477	55.946	0.00	0.00
ATOM	8252	OXT	THR	X	539	42.182	14.164	55.996	0.00	0.00
ATOM	8253	C	LIG	X	540	57.877	36.673	45.338	0.00	0.00
ATOM	8254	C1	LIG	X	540	57.293	35.650	46.031	0.00	0.00
ATOM	8255	C2	LIG	X	540	57.145	35.678	47.427	0.00	0.00
ATOM	8256	C3	LIG	X	540	57.516	36.844	48.134	0.00	0.00
ATOM	8257	C4	LIG	X	540	58.034	37.877	47.403	0.00	0.00
ATOM	8258	C5	LIG	X	540	58.286	37.800	46.027	0.00	0.00
ATOM	8259	C6	LIG	X	540	58.821	38.933	45.250	0.00	0.00
ATOM	8260	N	LIG	X	540	57.937	40.066	45.454	0.00	0.00
ATOM	8261	C7	LIG	X	540	58.289	41.302	44.763	0.00	0.00
ATOM	8262	C8	LIG	X	540	57.070	42.229	45.034	0.00	0.00
ATOM	8263	C9	LIG	X	540	55.809	41.318	45.052	0.00	0.00
ATOM	8264	C10	LIG	X	540	56.454	39.847	45.176	0.00	0.00
ATOM	8265	O	LIG	X	540	57.395	36.907	49.487	0.00	0.00
ATOM	8266	C11	LIG	X	540	57.272	38.137	50.285	0.00	0.00
ATOM	8267	O1	LIG	X	540	56.476	34.697	48.076	0.00	0.00
ATOM	8268	H	LIG	X	540	56.350	34.902	49.020	0.00	0.00
ATOM	8269	H1	LIG	X	540	58.010	36.559	44.265	0.00	0.00
ATOM	8270	H2	LIG	X	540	57.049	34.791	45.411	0.00	0.00
ATOM	8271	H3	LIG	X	540	58.284	38.733	48.024	0.00	0.00
ATOM	8272	H4	LIG	X	540	58.914	38.705	44.185	0.00	0.00
ATOM	8273	H5	LIG	X	540	59.817	39.198	45.613	0.00	0.00
ATOM	8274	H6	LIG	X	540	58.348	41.135	43.684	0.00	0.00
ATOM	8275	H7	LIG	X	540	59.236	41.677	45.160	0.00	0.00
ATOM	8276	H8	LIG	X	540	57.203	42.736	45.991	0.00	0.00
ATOM	8277	H9	LIG	X	540	56.992	43.045	44.313	0.00	0.00
ATOM	8278	H10	LIG	X	540	55.257	41.457	44.120	0.00	0.00
ATOM	8279	H11	LIG	X	540	55.115	41.543	45.865	0.00	0.00
ATOM	8280	H12	LIG	X	540	56.046	39.426	46.099	0.00	0.00
ATOM	8281	H13	LIG	X	540	56.266	39.189	44.324	0.00	0.00
ATOM	8282	H14	LIG	X	540	58.172	38.737	50.129	0.00	0.00
ATOM	8283	H15	LIG	X	540	57.141	37.914	51.347	0.00	0.00
ATOM	8284	H16	LIG	X	540	56.417	38.733	49.956	0.00	0.00
ATOM	8285	Na+	Na+	X	541	75.236	57.693	20.800	0.00	0.00
ATOM	8286	Na+	Na+	X	542	25.132	16.925	75.831	0.00	0.00
ATOM	8287	Na+	Na+	X	543	62.104	44.897	31.421	0.00	0.00
ATOM	8288	Na+	Na+	X	544	74.660	34.629	70.409	0.00	0.00
ATOM	8289	Na+	Na+	X	545	69.908	23.065	44.678	0.00	0.00
ATOM	8290	Na+	Na+	X	546	76.061	55.656	69.098	0.00	0.00
ATOM	8291	Na+	Na+	X	547	13.341	35.271	35.151	0.00	0.00

END

3

CRYST1	84.249	84.249	84.249	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	59.175	78.039	35.449	0.00	0.00
ATOM	2	H1	ASP	X	1	59.982	78.550	35.776	0.00	0.00
ATOM	3	H2	ASP	X	1	58.654	78.711	34.905	0.00	0.00
ATOM	4	H3	ASP	X	1	59.345	77.268	34.819	0.00	0.00

ATOM	5	CA	ASP	X	1	58.490	77.591	36.679	0.00	0.00
ATOM	6	HA	ASP	X	1	59.093	76.876	37.240	0.00	0.00
ATOM	7	CB	ASP	X	1	58.149	78.824	37.550	0.00	0.00
ATOM	8	HB2	ASP	X	1	58.953	79.500	37.842	0.00	0.00
ATOM	9	HB3	ASP	X	1	57.342	79.402	37.098	0.00	0.00
ATOM	10	CG	ASP	X	1	57.576	78.332	38.889	0.00	0.00
ATOM	11	OD1	ASP	X	1	58.272	77.728	39.710	0.00	0.00
ATOM	12	OD2	ASP	X	1	56.379	78.628	39.137	0.00	0.00
ATOM	13	C	ASP	X	1	57.307	76.705	36.418	0.00	0.00
ATOM	14	O	ASP	X	1	57.047	75.648	37.031	0.00	0.00
ATOM	15	N	ALA	X	2	56.425	77.192	35.488	0.00	0.00
ATOM	16	H	ALA	X	2	56.614	77.942	34.838	0.00	0.00
ATOM	17	CA	ALA	X	2	55.108	76.539	35.241	0.00	0.00
ATOM	18	HA	ALA	X	2	54.566	76.439	36.181	0.00	0.00
ATOM	19	CB	ALA	X	2	54.376	77.584	34.400	0.00	0.00
ATOM	20	HB1	ALA	X	2	54.374	78.496	34.997	0.00	0.00
ATOM	21	HB2	ALA	X	2	54.886	77.839	33.471	0.00	0.00
ATOM	22	HB3	ALA	X	2	53.391	77.214	34.114	0.00	0.00
ATOM	23	C	ALA	X	2	55.065	75.121	34.545	0.00	0.00
ATOM	24	O	ALA	X	2	54.017	74.479	34.512	0.00	0.00
ATOM	25	N	GLU	X	3	56.201	74.580	34.077	0.00	0.00
ATOM	26	H	GLU	X	3	57.129	74.970	34.151	0.00	0.00
ATOM	27	CA	GLU	X	3	56.167	73.169	33.622	0.00	0.00
ATOM	28	HA	GLU	X	3	55.197	72.822	33.264	0.00	0.00
ATOM	29	CB	GLU	X	3	57.123	73.112	32.447	0.00	0.00
ATOM	30	HB2	GLU	X	3	58.102	73.503	32.724	0.00	0.00
ATOM	31	HB3	GLU	X	3	57.276	72.087	32.107	0.00	0.00
ATOM	32	CG	GLU	X	3	56.753	73.965	31.267	0.00	0.00
ATOM	33	HG2	GLU	X	3	56.995	74.992	31.542	0.00	0.00
ATOM	34	HG3	GLU	X	3	57.372	73.762	30.394	0.00	0.00
ATOM	35	CD	GLU	X	3	55.209	73.774	30.994	0.00	0.00
ATOM	36	OE1	GLU	X	3	54.436	74.702	30.899	0.00	0.00
ATOM	37	OE2	GLU	X	3	54.801	72.567	30.825	0.00	0.00
ATOM	38	C	GLU	X	3	56.495	72.258	34.773	0.00	0.00
ATOM	39	O	GLU	X	3	56.317	71.097	34.592	0.00	0.00
ATOM	40	N	LEU	X	4	56.932	72.736	35.942	0.00	0.00
ATOM	41	H	LEU	X	4	57.141	73.715	36.075	0.00	0.00
ATOM	42	CA	LEU	X	4	57.305	71.856	37.049	0.00	0.00
ATOM	43	HA	LEU	X	4	56.985	70.845	36.795	0.00	0.00
ATOM	44	CB	LEU	X	4	58.826	71.884	37.371	0.00	0.00
ATOM	45	HB2	LEU	X	4	59.145	72.865	37.721	0.00	0.00
ATOM	46	HB3	LEU	X	4	58.952	71.111	38.130	0.00	0.00
ATOM	47	CG	LEU	X	4	59.887	71.553	36.230	0.00	0.00
ATOM	48	HG	LEU	X	4	59.730	72.194	35.363	0.00	0.00
ATOM	49	CD1	LEU	X	4	61.308	71.640	36.790	0.00	0.00
ATOM	50	HD11	LEU	X	4	61.945	71.485	35.920	0.00	0.00
ATOM	51	HD12	LEU	X	4	61.556	72.608	37.225	0.00	0.00
ATOM	52	HD13	LEU	X	4	61.428	70.765	37.429	0.00	0.00
ATOM	53	CD2	LEU	X	4	59.638	70.132	35.725	0.00	0.00
ATOM	54	HD21	LEU	X	4	58.726	70.129	35.128	0.00	0.00
ATOM	55	HD22	LEU	X	4	60.414	69.977	34.976	0.00	0.00
ATOM	56	HD23	LEU	X	4	59.649	69.307	36.438	0.00	0.00
ATOM	57	C	LEU	X	4	56.495	72.193	38.296	0.00	0.00
ATOM	58	O	LEU	X	4	56.554	71.389	39.235	0.00	0.00
ATOM	59	N	LEU	X	5	55.779	73.338	38.403	0.00	0.00
ATOM	60	H	LEU	X	5	55.795	74.022	37.660	0.00	0.00
ATOM	61	CA	LEU	X	5	54.906	73.759	39.496	0.00	0.00
ATOM	62	HA	LEU	X	5	55.110	73.132	40.364	0.00	0.00
ATOM	63	CB	LEU	X	5	55.108	75.280	39.714	0.00	0.00
ATOM	64	HB2	LEU	X	5	56.174	75.506	39.745	0.00	0.00
ATOM	65	HB3	LEU	X	5	54.725	75.675	38.773	0.00	0.00
ATOM	66	CG	LEU	X	5	54.538	76.052	40.932	0.00	0.00
ATOM	67	HG	LEU	X	5	54.664	77.089	40.618	0.00	0.00
ATOM	68	CD1	LEU	X	5	53.049	75.833	41.196	0.00	0.00
ATOM	69	HD11	LEU	X	5	52.483	75.603	40.294	0.00	0.00
ATOM	70	HD12	LEU	X	5	52.992	74.925	41.796	0.00	0.00
ATOM	71	HD13	LEU	X	5	52.548	76.553	41.843	0.00	0.00
ATOM	72	CD2	LEU	X	5	55.320	75.836	42.251	0.00	0.00
ATOM	73	HD21	LEU	X	5	55.524	74.785	42.457	0.00	0.00
ATOM	74	HD22	LEU	X	5	56.266	76.366	42.146	0.00	0.00

ATOM	75	HD23	LEU	X	5	54.688	76.359	42.969	0.00	0.00
ATOM	76	C	LEU	X	5	53.430	73.430	39.117	0.00	0.00
ATOM	77	O	LEU	X	5	52.991	73.775	38.014	0.00	0.00
ATOM	78	N	VAL	X	6	52.480	72.978	39.914	0.00	0.00
ATOM	79	H	VAL	X	6	52.823	72.817	40.850	0.00	0.00
ATOM	80	CA	VAL	X	6	51.015	72.814	39.709	0.00	0.00
ATOM	81	HA	VAL	X	6	50.576	73.470	38.957	0.00	0.00
ATOM	82	CB	VAL	X	6	50.642	71.308	39.328	0.00	0.00
ATOM	83	HB	VAL	X	6	51.012	70.672	40.131	0.00	0.00
ATOM	84	CG1	VAL	X	6	49.158	70.957	39.217	0.00	0.00
ATOM	85	HG11	VAL	X	6	48.744	71.495	38.364	0.00	0.00
ATOM	86	HG12	VAL	X	6	49.046	69.873	39.179	0.00	0.00
ATOM	87	HG13	VAL	X	6	48.483	71.397	39.951	0.00	0.00
ATOM	88	CG2	VAL	X	6	51.282	70.935	38.000	0.00	0.00
ATOM	89	HG21	VAL	X	6	50.937	71.573	37.186	0.00	0.00
ATOM	90	HG22	VAL	X	6	52.371	70.958	38.006	0.00	0.00
ATOM	91	HG23	VAL	X	6	51.005	69.920	37.714	0.00	0.00
ATOM	92	C	VAL	X	6	50.253	73.273	40.977	0.00	0.00
ATOM	93	O	VAL	X	6	50.612	72.941	42.094	0.00	0.00
ATOM	94	N	THR	X	7	49.121	73.987	40.873	0.00	0.00
ATOM	95	H	THR	X	7	48.903	74.376	39.966	0.00	0.00
ATOM	96	CA	THR	X	7	48.109	74.261	41.879	0.00	0.00
ATOM	97	HA	THR	X	7	48.669	74.246	42.814	0.00	0.00
ATOM	98	CB	THR	X	7	47.497	75.615	41.615	0.00	0.00
ATOM	99	HB	THR	X	7	46.955	75.685	40.672	0.00	0.00
ATOM	100	CG2	THR	X	7	46.510	75.899	42.681	0.00	0.00
ATOM	101	HG21	THR	X	7	45.571	75.363	42.541	0.00	0.00
ATOM	102	HG22	THR	X	7	47.078	75.721	43.594	0.00	0.00
ATOM	103	HG23	THR	X	7	46.342	76.972	42.591	0.00	0.00
ATOM	104	OG1	THR	X	7	48.521	76.607	41.518	0.00	0.00
ATOM	105	HG1	THR	X	7	48.478	76.967	40.629	0.00	0.00
ATOM	106	C	THR	X	7	47.062	73.185	41.938	0.00	0.00
ATOM	107	O	THR	X	7	46.332	72.931	40.959	0.00	0.00
ATOM	108	N	VAL	X	8	46.937	72.422	43.059	0.00	0.00
ATOM	109	H	VAL	X	8	47.591	72.630	43.800	0.00	0.00
ATOM	110	CA	VAL	X	8	45.769	71.544	43.422	0.00	0.00
ATOM	111	HA	VAL	X	8	45.154	71.346	42.545	0.00	0.00
ATOM	112	CB	VAL	X	8	46.349	70.148	43.816	0.00	0.00
ATOM	113	HB	VAL	X	8	45.587	69.483	44.223	0.00	0.00
ATOM	114	CG1	VAL	X	8	46.892	69.441	42.606	0.00	0.00
ATOM	115	HG11	VAL	X	8	46.293	69.529	41.700	0.00	0.00
ATOM	116	HG12	VAL	X	8	47.845	69.890	42.327	0.00	0.00
ATOM	117	HG13	VAL	X	8	47.003	68.380	42.831	0.00	0.00
ATOM	118	CG2	VAL	X	8	47.264	70.330	45.016	0.00	0.00
ATOM	119	HG21	VAL	X	8	47.533	69.305	45.273	0.00	0.00
ATOM	120	HG22	VAL	X	8	48.163	70.871	44.722	0.00	0.00
ATOM	121	HG23	VAL	X	8	46.740	70.840	45.825	0.00	0.00
ATOM	122	C	VAL	X	8	44.905	72.161	44.528	0.00	0.00
ATOM	123	O	VAL	X	8	45.130	73.292	44.997	0.00	0.00
ATOM	124	N	ARG	X	9	43.870	71.515	45.014	0.00	0.00
ATOM	125	H	ARG	X	9	43.672	70.629	44.572	0.00	0.00
ATOM	126	CA	ARG	X	9	42.753	72.093	45.875	0.00	0.00
ATOM	127	HA	ARG	X	9	42.356	72.963	45.351	0.00	0.00
ATOM	128	CB	ARG	X	9	41.650	71.162	46.113	0.00	0.00
ATOM	129	HB2	ARG	X	9	41.532	70.518	45.241	0.00	0.00
ATOM	130	HB3	ARG	X	9	41.866	70.409	46.870	0.00	0.00
ATOM	131	CG	ARG	X	9	40.328	71.839	46.555	0.00	0.00
ATOM	132	HG2	ARG	X	9	40.546	72.323	47.506	0.00	0.00
ATOM	133	HG3	ARG	X	9	39.991	72.550	45.801	0.00	0.00
ATOM	134	CD	ARG	X	9	39.285	70.680	46.785	0.00	0.00
ATOM	135	HD2	ARG	X	9	39.223	70.030	45.912	0.00	0.00
ATOM	136	HD3	ARG	X	9	39.570	70.152	47.695	0.00	0.00
ATOM	137	NE	ARG	X	9	37.940	71.241	46.937	0.00	0.00
ATOM	138	HE	ARG	X	9	37.721	71.598	47.856	0.00	0.00
ATOM	139	CZ	ARG	X	9	37.107	71.632	46.006	0.00	0.00
ATOM	140	NH1	ARG	X	9	37.431	71.607	44.717	0.00	0.00
ATOM	141	HH11	ARG	X	9	38.350	71.377	44.367	0.00	0.00
ATOM	142	HH12	ARG	X	9	36.792	72.008	44.046	0.00	0.00
ATOM	143	NH2	ARG	X	9	35.958	72.131	46.296	0.00	0.00
ATOM	144	HH21	ARG	X	9	35.607	72.087	47.242	0.00	0.00

ATOM	145	HH22	ARG	X	9	35.346	72.502	45.584	0.00	0.00
ATOM	146	C	ARG	X	9	43.392	72.521	47.217	0.00	0.00
ATOM	147	O	ARG	X	9	42.925	73.419	47.931	0.00	0.00
ATOM	148	N	GLY	X	10	44.286	71.616	47.659	0.00	0.00
ATOM	149	H	GLY	X	10	44.387	70.728	47.189	0.00	0.00
ATOM	150	CA	GLY	X	10	45.080	71.782	48.876	0.00	0.00
ATOM	151	HA2	GLY	X	10	44.374	72.069	49.648	0.00	0.00
ATOM	152	HA3	GLY	X	10	45.607	70.936	49.079	0.00	0.00
ATOM	153	C	GLY	X	10	46.124	72.920	48.793	0.00	0.00
ATOM	154	O	GLY	X	10	46.403	73.489	49.868	0.00	0.00
ATOM	155	N	GLY	X	11	46.615	73.320	47.589	0.00	0.00
ATOM	156	H	GLY	X	11	46.293	72.885	46.737	0.00	0.00
ATOM	157	CA	GLY	X	11	47.674	74.337	47.435	0.00	0.00
ATOM	158	HA2	GLY	X	11	47.278	75.293	47.230	0.00	0.00
ATOM	159	HA3	GLY	X	11	48.295	74.338	48.409	0.00	0.00
ATOM	160	C	GLY	X	11	48.660	73.979	46.260	0.00	0.00
ATOM	161	O	GLY	X	11	48.382	73.257	45.350	0.00	0.00
ATOM	162	N	ARG	X	12	49.889	74.609	46.276	0.00	0.00
ATOM	163	H	ARG	X	12	50.061	75.099	47.142	0.00	0.00
ATOM	164	CA	ARG	X	12	50.897	74.431	45.189	0.00	0.00
ATOM	165	HA	ARG	X	12	50.345	74.318	44.256	0.00	0.00
ATOM	166	CB	ARG	X	12	51.717	75.707	44.897	0.00	0.00
ATOM	167	HB2	ARG	X	12	52.193	76.091	45.799	0.00	0.00
ATOM	168	HB3	ARG	X	12	52.579	75.515	44.259	0.00	0.00
ATOM	169	CG	ARG	X	12	50.866	76.901	44.319	0.00	0.00
ATOM	170	HG2	ARG	X	12	50.483	76.593	43.346	0.00	0.00
ATOM	171	HG3	ARG	X	12	50.066	77.121	45.026	0.00	0.00
ATOM	172	CD	ARG	X	12	51.761	78.155	44.167	0.00	0.00
ATOM	173	HD2	ARG	X	12	52.226	78.408	45.120	0.00	0.00
ATOM	174	HD3	ARG	X	12	52.488	77.949	43.381	0.00	0.00
ATOM	175	NE	ARG	X	12	51.002	79.318	43.757	0.00	0.00
ATOM	176	HE	ARG	X	12	50.006	79.222	43.896	0.00	0.00
ATOM	177	CZ	ARG	X	12	51.456	80.392	43.235	0.00	0.00
ATOM	178	NH1	ARG	X	12	52.679	80.815	43.253	0.00	0.00
ATOM	179	HH11	ARG	X	12	53.363	80.221	43.700	0.00	0.00
ATOM	180	HH12	ARG	X	12	53.061	81.696	42.941	0.00	0.00
ATOM	181	NH2	ARG	X	12	50.576	81.256	42.647	0.00	0.00
ATOM	182	HH21	ARG	X	12	49.589	81.173	42.843	0.00	0.00
ATOM	183	HH22	ARG	X	12	51.056	82.049	42.245	0.00	0.00
ATOM	184	C	ARG	X	12	51.768	73.163	45.477	0.00	0.00
ATOM	185	O	ARG	X	12	52.041	72.815	46.630	0.00	0.00
ATOM	186	N	LEU	X	13	52.303	72.615	44.358	0.00	0.00
ATOM	187	H	LEU	X	13	52.041	73.122	43.525	0.00	0.00
ATOM	188	CA	LEU	X	13	53.059	71.366	44.228	0.00	0.00
ATOM	189	HA	LEU	X	13	53.461	71.166	45.221	0.00	0.00
ATOM	190	CB	LEU	X	13	52.085	70.303	43.705	0.00	0.00
ATOM	191	HB2	LEU	X	13	51.643	70.613	42.758	0.00	0.00
ATOM	192	HB3	LEU	X	13	52.738	69.468	43.453	0.00	0.00
ATOM	193	CG	LEU	X	13	50.990	69.631	44.580	0.00	0.00
ATOM	194	HG	LEU	X	13	50.252	70.408	44.773	0.00	0.00
ATOM	195	CD1	LEU	X	13	50.339	68.602	43.653	0.00	0.00
ATOM	196	HD11	LEU	X	13	49.979	68.955	42.686	0.00	0.00
ATOM	197	HD12	LEU	X	13	50.941	67.712	43.469	0.00	0.00
ATOM	198	HD13	LEU	X	13	49.422	68.384	44.201	0.00	0.00
ATOM	199	CD2	LEU	X	13	51.563	68.931	45.768	0.00	0.00
ATOM	200	HD21	LEU	X	13	52.135	69.595	46.416	0.00	0.00
ATOM	201	HD22	LEU	X	13	50.793	68.520	46.420	0.00	0.00
ATOM	202	HD23	LEU	X	13	52.255	68.131	45.503	0.00	0.00
ATOM	203	C	LEU	X	13	54.190	71.510	43.251	0.00	0.00
ATOM	204	O	LEU	X	13	54.027	72.179	42.221	0.00	0.00
ATOM	205	N	ARG	X	14	55.349	70.901	43.490	0.00	0.00
ATOM	206	H	ARG	X	14	55.381	70.309	44.308	0.00	0.00
ATOM	207	CA	ARG	X	14	56.573	71.196	42.675	0.00	0.00
ATOM	208	HA	ARG	X	14	56.227	71.570	41.712	0.00	0.00
ATOM	209	CB	ARG	X	14	57.556	72.057	43.580	0.00	0.00
ATOM	210	HB2	ARG	X	14	56.899	72.910	43.750	0.00	0.00
ATOM	211	HB3	ARG	X	14	57.810	71.539	44.505	0.00	0.00
ATOM	212	CG	ARG	X	14	58.836	72.392	42.876	0.00	0.00
ATOM	213	HG2	ARG	X	14	59.314	71.434	42.671	0.00	0.00
ATOM	214	HG3	ARG	X	14	58.638	72.812	41.890	0.00	0.00

ATOM	215	CD	ARG	X	14	59.735	73.371	43.658	0.00	0.00
ATOM	216	HD2	ARG	X	14	60.673	73.387	43.102	0.00	0.00
ATOM	217	HD3	ARG	X	14	59.309	74.373	43.610	0.00	0.00
ATOM	218	NE	ARG	X	14	60.022	72.825	45.035	0.00	0.00
ATOM	219	HE	ARG	X	14	60.471	71.929	45.158	0.00	0.00
ATOM	220	CZ	ARG	X	14	59.666	73.442	46.154	0.00	0.00
ATOM	221	NH1	ARG	X	14	59.158	74.620	46.072	0.00	0.00
ATOM	222	HH11	ARG	X	14	59.250	75.066	45.170	0.00	0.00
ATOM	223	HH12	ARG	X	14	58.846	75.177	46.854	0.00	0.00
ATOM	224	NH2	ARG	X	14	59.783	72.831	47.303	0.00	0.00
ATOM	225	HH21	ARG	X	14	60.356	72.000	47.307	0.00	0.00
ATOM	226	HH22	ARG	X	14	59.286	73.153	48.121	0.00	0.00
ATOM	227	C	ARG	X	14	57.326	69.909	42.319	0.00	0.00
ATOM	228	O	ARG	X	14	58.012	69.345	43.138	0.00	0.00
ATOM	229	N	GLY	X	15	57.024	69.391	41.135	0.00	0.00
ATOM	230	H	GLY	X	15	56.518	70.000	40.508	0.00	0.00
ATOM	231	CA	GLY	X	15	57.527	68.111	40.525	0.00	0.00
ATOM	232	HA2	GLY	X	15	57.596	67.403	41.401	0.00	0.00
ATOM	233	HA3	GLY	X	15	56.860	67.679	39.836	0.00	0.00
ATOM	234	C	GLY	X	15	58.885	68.237	39.894	0.00	0.00
ATOM	235	O	GLY	X	15	59.606	69.158	40.277	0.00	0.00
ATOM	236	N	ILE	X	16	59.289	67.288	39.071	0.00	0.00
ATOM	237	H	ILE	X	16	58.692	66.477	38.990	0.00	0.00
ATOM	238	CA	ILE	X	16	60.620	67.244	38.442	0.00	0.00
ATOM	239	HA	ILE	X	16	61.169	68.180	38.546	0.00	0.00
ATOM	240	CB	ILE	X	16	61.627	66.360	39.217	0.00	0.00
ATOM	241	HB	ILE	X	16	62.602	66.300	38.733	0.00	0.00
ATOM	242	CG2	ILE	X	16	61.803	66.913	40.592	0.00	0.00
ATOM	243	HG21	ILE	X	16	60.873	67.137	41.116	0.00	0.00
ATOM	244	HG22	ILE	X	16	62.405	66.301	41.263	0.00	0.00
ATOM	245	HG23	ILE	X	16	62.258	67.899	40.502	0.00	0.00
ATOM	246	CG1	ILE	X	16	61.027	64.971	39.344	0.00	0.00
ATOM	247	HG12	ILE	X	16	60.088	64.837	39.881	0.00	0.00
ATOM	248	HG13	ILE	X	16	60.848	64.711	38.300	0.00	0.00
ATOM	249	CD1	ILE	X	16	61.978	63.843	39.935	0.00	0.00
ATOM	250	HD11	ILE	X	16	61.805	63.845	41.011	0.00	0.00
ATOM	251	HD12	ILE	X	16	61.548	62.865	39.720	0.00	0.00
ATOM	252	HD13	ILE	X	16	63.003	63.949	39.581	0.00	0.00
ATOM	253	C	ILE	X	16	60.634	66.803	36.980	0.00	0.00
ATOM	254	O	ILE	X	16	59.676	66.183	36.499	0.00	0.00
ATOM	255	N	ARG	X	17	61.615	67.345	36.225	0.00	0.00
ATOM	256	H	ARG	X	17	62.240	67.994	36.681	0.00	0.00
ATOM	257	CA	ARG	X	17	61.927	66.822	34.853	0.00	0.00
ATOM	258	HA	ARG	X	17	61.050	66.854	34.207	0.00	0.00
ATOM	259	CB	ARG	X	17	62.928	67.811	34.171	0.00	0.00
ATOM	260	HB2	ARG	X	17	62.462	68.794	34.099	0.00	0.00
ATOM	261	HB3	ARG	X	17	63.802	67.886	34.818	0.00	0.00
ATOM	262	CG	ARG	X	17	63.341	67.467	32.747	0.00	0.00
ATOM	263	HG2	ARG	X	17	63.856	66.507	32.745	0.00	0.00
ATOM	264	HG3	ARG	X	17	62.504	67.475	32.049	0.00	0.00
ATOM	265	CD	ARG	X	17	64.297	68.556	32.186	0.00	0.00
ATOM	266	HD2	ARG	X	17	64.290	68.536	31.096	0.00	0.00
ATOM	267	HD3	ARG	X	17	64.000	69.586	32.379	0.00	0.00
ATOM	268	NE	ARG	X	17	65.724	68.425	32.640	0.00	0.00
ATOM	269	HE	ARG	X	17	66.174	67.558	32.383	0.00	0.00
ATOM	270	CZ	ARG	X	17	66.484	69.272	33.364	0.00	0.00
ATOM	271	NH1	ARG	X	17	66.139	70.427	33.719	0.00	0.00
ATOM	272	HH11	ARG	X	17	65.376	70.966	33.335	0.00	0.00
ATOM	273	HH12	ARG	X	17	66.796	70.996	34.234	0.00	0.00
ATOM	274	NH2	ARG	X	17	67.685	68.857	33.729	0.00	0.00
ATOM	275	HH21	ARG	X	17	67.986	67.915	33.522	0.00	0.00
ATOM	276	HH22	ARG	X	17	68.241	69.480	34.296	0.00	0.00
ATOM	277	C	ARG	X	17	62.597	65.437	34.865	0.00	0.00
ATOM	278	O	ARG	X	17	63.600	65.265	35.534	0.00	0.00
ATOM	279	N	LEU	X	18	62.038	64.395	34.203	0.00	0.00
ATOM	280	H	LEU	X	18	61.137	64.561	33.777	0.00	0.00
ATOM	281	CA	LEU	X	18	62.538	62.990	34.102	0.00	0.00
ATOM	282	HA	LEU	X	18	63.370	62.781	34.774	0.00	0.00
ATOM	283	CB	LEU	X	18	61.396	61.945	34.505	0.00	0.00
ATOM	284	HB2	LEU	X	18	60.591	62.147	33.798	0.00	0.00

ATOM	285	HB3	LEU	X	18	61.720	60.929	34.279	0.00	0.00
ATOM	286	CG	LEU	X	18	60.768	61.869	35.988	0.00	0.00
ATOM	287	HG	LEU	X	18	60.137	62.731	36.204	0.00	0.00
ATOM	288	CD1	LEU	X	18	59.849	60.607	36.123	0.00	0.00
ATOM	289	HD11	LEU	X	18	60.388	59.704	36.410	0.00	0.00
ATOM	290	HD12	LEU	X	18	59.139	60.740	36.940	0.00	0.00
ATOM	291	HD13	LEU	X	18	59.245	60.518	35.220	0.00	0.00
ATOM	292	CD2	LEU	X	18	61.883	61.916	37.048	0.00	0.00
ATOM	293	HD21	LEU	X	18	62.295	62.924	37.009	0.00	0.00
ATOM	294	HD22	LEU	X	18	61.543	61.732	38.067	0.00	0.00
ATOM	295	HD23	LEU	X	18	62.629	61.159	36.810	0.00	0.00
ATOM	296	C	LEU	X	18	62.939	62.616	32.692	0.00	0.00
ATOM	297	O	LEU	X	18	62.246	62.914	31.680	0.00	0.00
ATOM	298	N	LYS	X	19	64.126	62.010	32.594	0.00	0.00
ATOM	299	H	LYS	X	19	64.664	61.950	33.447	0.00	0.00
ATOM	300	CA	LYS	X	19	64.821	61.616	31.308	0.00	0.00
ATOM	301	HA	LYS	X	19	64.603	62.300	30.488	0.00	0.00
ATOM	302	CB	LYS	X	19	66.334	61.597	31.585	0.00	0.00
ATOM	303	HB2	LYS	X	19	66.832	61.581	30.615	0.00	0.00
ATOM	304	HB3	LYS	X	19	66.400	62.588	32.034	0.00	0.00
ATOM	305	CG	LYS	X	19	66.766	60.513	32.593	0.00	0.00
ATOM	306	HG2	LYS	X	19	66.269	60.672	33.550	0.00	0.00
ATOM	307	HG3	LYS	X	19	66.589	59.508	32.211	0.00	0.00
ATOM	308	CD	LYS	X	19	68.233	60.715	32.872	0.00	0.00
ATOM	309	HD2	LYS	X	19	68.845	60.638	31.974	0.00	0.00
ATOM	310	HD3	LYS	X	19	68.462	61.706	33.265	0.00	0.00
ATOM	311	CE	LYS	X	19	68.727	59.793	33.953	0.00	0.00
ATOM	312	HE2	LYS	X	19	68.100	60.041	34.809	0.00	0.00
ATOM	313	HE3	LYS	X	19	68.553	58.750	33.691	0.00	0.00
ATOM	314	NZ	LYS	X	19	70.142	59.887	34.330	0.00	0.00
ATOM	315	HZ1	LYS	X	19	70.419	59.200	35.017	0.00	0.00
ATOM	316	HZ2	LYS	X	19	70.635	59.633	33.486	0.00	0.00
ATOM	317	HZ3	LYS	X	19	70.531	60.795	34.536	0.00	0.00
ATOM	318	C	LYS	X	19	64.257	60.291	30.756	0.00	0.00
ATOM	319	O	LYS	X	19	63.603	59.490	31.434	0.00	0.00
ATOM	320	N	THR	X	20	64.501	60.047	29.488	0.00	0.00
ATOM	321	H	THR	X	20	64.998	60.727	28.930	0.00	0.00
ATOM	322	CA	THR	X	20	63.780	59.088	28.569	0.00	0.00
ATOM	323	HA	THR	X	20	63.577	58.146	29.079	0.00	0.00
ATOM	324	CB	THR	X	20	62.458	59.569	28.017	0.00	0.00
ATOM	325	HB	THR	X	20	62.299	59.159	27.020	0.00	0.00
ATOM	326	CG2	THR	X	20	61.167	59.210	28.911	0.00	0.00
ATOM	327	HG21	THR	X	20	60.473	58.728	28.221	0.00	0.00
ATOM	328	HG22	THR	X	20	61.437	58.511	29.701	0.00	0.00
ATOM	329	HG23	THR	X	20	60.642	60.091	29.281	0.00	0.00
ATOM	330	OG1	THR	X	20	62.572	60.922	27.892	0.00	0.00
ATOM	331	HG1	THR	X	20	61.694	61.156	27.584	0.00	0.00
ATOM	332	C	THR	X	20	64.745	58.712	27.371	0.00	0.00
ATOM	333	O	THR	X	20	65.746	59.379	27.071	0.00	0.00
ATOM	334	N	PRO	X	21	64.442	57.564	26.671	0.00	0.00
ATOM	335	CD	PRO	X	21	63.619	56.451	27.085	0.00	0.00
ATOM	336	HD2	PRO	X	21	62.559	56.667	27.221	0.00	0.00
ATOM	337	HD3	PRO	X	21	63.966	55.985	28.007	0.00	0.00
ATOM	338	CG	PRO	X	21	63.610	55.539	25.901	0.00	0.00
ATOM	339	HG2	PRO	X	21	62.766	55.876	25.298	0.00	0.00
ATOM	340	HG3	PRO	X	21	63.509	54.477	26.125	0.00	0.00
ATOM	341	CB	PRO	X	21	64.900	55.736	25.127	0.00	0.00
ATOM	342	HB2	PRO	X	21	64.861	55.424	24.084	0.00	0.00
ATOM	343	HB3	PRO	X	21	65.671	55.157	25.635	0.00	0.00
ATOM	344	CA	PRO	X	21	65.114	57.273	25.432	0.00	0.00
ATOM	345	HA	PRO	X	21	66.164	57.505	25.612	0.00	0.00
ATOM	346	C	PRO	X	21	64.598	58.171	24.259	0.00	0.00
ATOM	347	O	PRO	X	21	65.356	58.393	23.330	0.00	0.00
ATOM	348	N	GLY	X	22	63.477	58.792	24.399	0.00	0.00
ATOM	349	H	GLY	X	22	62.782	58.450	25.048	0.00	0.00
ATOM	350	CA	GLY	X	22	63.042	59.942	23.668	0.00	0.00
ATOM	351	HA2	GLY	X	22	63.517	60.059	22.689	0.00	0.00
ATOM	352	HA3	GLY	X	22	62.012	59.759	23.574	0.00	0.00
ATOM	353	C	GLY	X	22	63.297	61.229	24.430	0.00	0.00
ATOM	354	O	GLY	X	22	64.346	61.418	25.043	0.00	0.00

ATOM	355	N	GLY	X	23	62.378	62.192	24.370	0.00	0.00
ATOM	356	H	GLY	X	23	61.677	61.996	23.670	0.00	0.00
ATOM	357	CA	GLY	X	23	62.407	63.507	25.046	0.00	0.00
ATOM	358	HA2	GLY	X	23	63.451	63.826	25.047	0.00	0.00
ATOM	359	HA3	GLY	X	23	61.823	64.176	24.455	0.00	0.00
ATOM	360	C	GLY	X	23	61.767	63.525	26.377	0.00	0.00
ATOM	361	O	GLY	X	23	60.828	62.718	26.584	0.00	0.00
ATOM	362	N	PRO	X	24	62.336	64.298	27.332	0.00	0.00
ATOM	363	CD	PRO	X	24	63.191	65.445	27.131	0.00	0.00
ATOM	364	HD2	PRO	X	24	62.720	66.075	26.376	0.00	0.00
ATOM	365	HD3	PRO	X	24	64.170	65.052	26.856	0.00	0.00
ATOM	366	CG	PRO	X	24	63.305	66.168	28.518	0.00	0.00
ATOM	367	HG2	PRO	X	24	62.609	66.994	28.664	0.00	0.00
ATOM	368	HG3	PRO	X	24	64.328	66.482	28.725	0.00	0.00
ATOM	369	CB	PRO	X	24	62.922	65.097	29.496	0.00	0.00
ATOM	370	HB2	PRO	X	24	62.300	65.518	30.287	0.00	0.00
ATOM	371	HB3	PRO	X	24	63.851	64.608	29.787	0.00	0.00
ATOM	372	CA	PRO	X	24	62.072	64.081	28.768	0.00	0.00
ATOM	373	HA	PRO	X	24	62.441	63.092	29.040	0.00	0.00
ATOM	374	C	PRO	X	24	60.585	64.312	28.985	0.00	0.00
ATOM	375	O	PRO	X	24	59.944	65.008	28.224	0.00	0.00
ATOM	376	N	VAL	X	25	59.965	63.597	29.929	0.00	0.00
ATOM	377	H	VAL	X	25	60.570	63.062	30.535	0.00	0.00
ATOM	378	CA	VAL	X	25	58.664	63.818	30.558	0.00	0.00
ATOM	379	HA	VAL	X	25	58.096	64.527	29.955	0.00	0.00
ATOM	380	CB	VAL	X	25	57.906	62.433	30.649	0.00	0.00
ATOM	381	HB	VAL	X	25	56.912	62.685	31.021	0.00	0.00
ATOM	382	CG1	VAL	X	25	57.682	61.710	29.279	0.00	0.00
ATOM	383	HG11	VAL	X	25	57.118	60.794	29.455	0.00	0.00
ATOM	384	HG12	VAL	X	25	57.202	62.383	28.569	0.00	0.00
ATOM	385	HG13	VAL	X	25	58.633	61.436	28.822	0.00	0.00
ATOM	386	CG2	VAL	X	25	58.496	61.413	31.660	0.00	0.00
ATOM	387	HG21	VAL	X	25	59.477	61.189	31.242	0.00	0.00
ATOM	388	HG22	VAL	X	25	58.563	61.866	32.650	0.00	0.00
ATOM	389	HG23	VAL	X	25	57.950	60.476	31.774	0.00	0.00
ATOM	390	C	VAL	X	25	58.797	64.439	31.933	0.00	0.00
ATOM	391	O	VAL	X	25	59.944	64.787	32.284	0.00	0.00
ATOM	392	N	SER	X	26	57.740	64.619	32.736	0.00	0.00
ATOM	393	H	SER	X	26	56.861	64.280	32.371	0.00	0.00
ATOM	394	CA	SER	X	26	57.848	65.171	34.128	0.00	0.00
ATOM	395	HA	SER	X	26	58.841	65.049	34.561	0.00	0.00
ATOM	396	CB	SER	X	26	57.560	66.679	34.156	0.00	0.00
ATOM	397	HB2	SER	X	26	57.581	67.129	35.149	0.00	0.00
ATOM	398	HB3	SER	X	26	58.310	67.187	33.550	0.00	0.00
ATOM	399	OG	SER	X	26	56.302	66.865	33.540	0.00	0.00
ATOM	400	HG	SER	X	26	56.256	66.268	32.790	0.00	0.00
ATOM	401	C	SER	X	26	57.002	64.437	35.203	0.00	0.00
ATOM	402	O	SER	X	26	56.116	63.644	34.828	0.00	0.00
ATOM	403	N	ALA	X	27	57.189	64.715	36.519	0.00	0.00
ATOM	404	H	ALA	X	27	57.848	65.408	36.844	0.00	0.00
ATOM	405	CA	ALA	X	27	56.504	63.994	37.569	0.00	0.00
ATOM	406	HA	ALA	X	27	55.486	63.978	37.180	0.00	0.00
ATOM	407	CB	ALA	X	27	57.126	62.572	37.512	0.00	0.00
ATOM	408	HB1	ALA	X	27	56.483	61.976	38.160	0.00	0.00
ATOM	409	HB2	ALA	X	27	57.068	62.083	36.540	0.00	0.00
ATOM	410	HB3	ALA	X	27	58.143	62.528	37.901	0.00	0.00
ATOM	411	C	ALA	X	27	56.411	64.502	39.038	0.00	0.00
ATOM	412	O	ALA	X	27	57.323	65.170	39.550	0.00	0.00
ATOM	413	N	PHE	X	28	55.272	64.221	39.667	0.00	0.00
ATOM	414	H	PHE	X	28	54.619	63.734	39.070	0.00	0.00
ATOM	415	CA	PHE	X	28	54.851	64.778	40.947	0.00	0.00
ATOM	416	HA	PHE	X	28	55.634	65.435	41.326	0.00	0.00
ATOM	417	CB	PHE	X	28	53.567	65.566	40.769	0.00	0.00
ATOM	418	HB2	PHE	X	28	52.790	64.891	40.409	0.00	0.00
ATOM	419	HB3	PHE	X	28	53.347	66.007	41.741	0.00	0.00
ATOM	420	CG	PHE	X	28	53.746	66.670	39.800	0.00	0.00
ATOM	421	CD1	PHE	X	28	53.599	66.503	38.414	0.00	0.00
ATOM	422	HD1	PHE	X	28	53.397	65.549	37.949	0.00	0.00
ATOM	423	CE1	PHE	X	28	53.800	67.579	37.520	0.00	0.00
ATOM	424	HE1	PHE	X	28	53.591	67.364	36.483	0.00	0.00

ATOM	425	CZ	PHE	X	28	54.150	68.884	38.011	0.00	0.00
ATOM	426	HZ	PHE	X	28	54.260	69.788	37.431	0.00	0.00
ATOM	427	CE2	PHE	X	28	54.205	69.095	39.410	0.00	0.00
ATOM	428	HE2	PHE	X	28	54.304	70.094	39.807	0.00	0.00
ATOM	429	CD2	PHE	X	28	53.977	68.023	40.223	0.00	0.00
ATOM	430	HD2	PHE	X	28	54.004	68.254	41.277	0.00	0.00
ATOM	431	C	PHE	X	28	54.807	63.559	41.871	0.00	0.00
ATOM	432	O	PHE	X	28	53.849	62.799	41.856	0.00	0.00
ATOM	433	N	LEU	X	29	55.883	63.352	42.677	0.00	0.00
ATOM	434	H	LEU	X	29	56.617	64.043	42.618	0.00	0.00
ATOM	435	CA	LEU	X	29	56.038	62.145	43.411	0.00	0.00
ATOM	436	HA	LEU	X	29	55.422	61.384	42.933	0.00	0.00
ATOM	437	CB	LEU	X	29	57.466	61.630	43.408	0.00	0.00
ATOM	438	HB2	LEU	X	29	58.054	62.400	43.908	0.00	0.00
ATOM	439	HB3	LEU	X	29	57.473	60.774	44.082	0.00	0.00
ATOM	440	CG	LEU	X	29	58.026	61.254	41.983	0.00	0.00
ATOM	441	HG	LEU	X	29	58.177	62.119	41.337	0.00	0.00
ATOM	442	CD1	LEU	X	29	59.370	60.585	42.189	0.00	0.00
ATOM	443	HD11	LEU	X	29	59.862	60.486	41.221	0.00	0.00
ATOM	444	HD12	LEU	X	29	59.903	61.289	42.828	0.00	0.00
ATOM	445	HD13	LEU	X	29	59.402	59.618	42.692	0.00	0.00
ATOM	446	CD2	LEU	X	29	57.188	60.343	41.120	0.00	0.00
ATOM	447	HD21	LEU	X	29	57.697	60.213	40.164	0.00	0.00
ATOM	448	HD22	LEU	X	29	57.043	59.377	41.603	0.00	0.00
ATOM	449	HD23	LEU	X	29	56.218	60.673	40.746	0.00	0.00
ATOM	450	C	LEU	X	29	55.694	62.207	44.961	0.00	0.00
ATOM	451	O	LEU	X	29	56.071	63.266	45.508	0.00	0.00
ATOM	452	N	GLY	X	30	54.962	61.260	45.560	0.00	0.00
ATOM	453	H	GLY	X	30	54.973	60.377	45.069	0.00	0.00
ATOM	454	CA	GLY	X	30	54.555	61.318	47.012	0.00	0.00
ATOM	455	HA2	GLY	X	30	53.915	60.501	47.180	0.00	0.00
ATOM	456	HA3	GLY	X	30	55.420	61.350	47.584	0.00	0.00
ATOM	457	C	GLY	X	30	53.818	62.706	47.317	0.00	0.00
ATOM	458	O	GLY	X	30	54.187	63.392	48.215	0.00	0.00
ATOM	459	N	ILE	X	31	52.783	62.954	46.603	0.00	0.00
ATOM	460	H	ILE	X	31	52.510	62.266	45.916	0.00	0.00
ATOM	461	CA	ILE	X	31	51.750	64.019	46.961	0.00	0.00
ATOM	462	HA	ILE	X	31	52.225	64.922	47.343	0.00	0.00
ATOM	463	CB	ILE	X	31	50.850	64.285	45.779	0.00	0.00
ATOM	464	HB	ILE	X	31	50.236	63.410	45.568	0.00	0.00
ATOM	465	CG2	ILE	X	31	49.862	65.411	46.141	0.00	0.00
ATOM	466	HG21	ILE	X	31	49.387	65.766	45.226	0.00	0.00
ATOM	467	HG22	ILE	X	31	49.097	65.042	46.824	0.00	0.00
ATOM	468	HG23	ILE	X	31	50.270	66.326	46.571	0.00	0.00
ATOM	469	CG1	ILE	X	31	51.634	64.604	44.495	0.00	0.00
ATOM	470	HG12	ILE	X	31	52.391	65.386	44.550	0.00	0.00
ATOM	471	HG13	ILE	X	31	52.137	63.687	44.187	0.00	0.00
ATOM	472	CD1	ILE	X	31	50.777	64.667	43.250	0.00	0.00
ATOM	473	HD11	ILE	X	31	51.395	64.734	42.355	0.00	0.00
ATOM	474	HD12	ILE	X	31	50.093	63.845	43.038	0.00	0.00
ATOM	475	HD13	ILE	X	31	50.059	65.485	43.310	0.00	0.00
ATOM	476	C	ILE	X	31	50.818	63.396	48.064	0.00	0.00
ATOM	477	O	ILE	X	31	50.310	62.311	47.818	0.00	0.00
ATOM	478	N	PRO	X	32	50.608	64.068	49.196	0.00	0.00
ATOM	479	CD	PRO	X	32	51.264	65.325	49.593	0.00	0.00
ATOM	480	HD2	PRO	X	32	50.859	66.146	49.002	0.00	0.00
ATOM	481	HD3	PRO	X	32	52.340	65.255	49.434	0.00	0.00
ATOM	482	CG	PRO	X	32	50.828	65.620	51.102	0.00	0.00
ATOM	483	HG2	PRO	X	32	50.186	66.502	51.100	0.00	0.00
ATOM	484	HG3	PRO	X	32	51.683	65.842	51.740	0.00	0.00
ATOM	485	CB	PRO	X	32	50.053	64.337	51.534	0.00	0.00
ATOM	486	HB2	PRO	X	32	49.142	64.573	52.084	0.00	0.00
ATOM	487	HB3	PRO	X	32	50.757	63.780	52.152	0.00	0.00
ATOM	488	CA	PRO	X	32	49.711	63.547	50.197	0.00	0.00
ATOM	489	HA	PRO	X	32	49.921	62.480	50.262	0.00	0.00
ATOM	490	C	PRO	X	32	48.259	63.758	49.748	0.00	0.00
ATOM	491	O	PRO	X	32	47.800	64.863	49.431	0.00	0.00
ATOM	492	N	PHE	X	33	47.573	62.589	49.566	0.00	0.00
ATOM	493	H	PHE	X	33	48.137	61.754	49.631	0.00	0.00
ATOM	494	CA	PHE	X	33	46.097	62.493	49.422	0.00	0.00

ATOM	495	HA	PHE	X	33	45.686	63.437	49.065	0.00	0.00
ATOM	496	CB	PHE	X	33	45.825	61.457	48.338	0.00	0.00
ATOM	497	HB2	PHE	X	33	44.766	61.615	48.137	0.00	0.00
ATOM	498	HB3	PHE	X	33	46.353	61.749	47.430	0.00	0.00
ATOM	499	CG	PHE	X	33	46.002	59.959	48.780	0.00	0.00
ATOM	500	CD1	PHE	X	33	45.101	59.398	49.680	0.00	0.00
ATOM	501	HD1	PHE	X	33	44.258	59.962	50.052	0.00	0.00
ATOM	502	CE1	PHE	X	33	45.343	58.037	50.046	0.00	0.00
ATOM	503	HE1	PHE	X	33	44.712	57.629	50.823	0.00	0.00
ATOM	504	CZ	PHE	X	33	46.452	57.294	49.622	0.00	0.00
ATOM	505	HZ	PHE	X	33	46.589	56.268	49.931	0.00	0.00
ATOM	506	CE2	PHE	X	33	47.412	57.967	48.783	0.00	0.00
ATOM	507	HE2	PHE	X	33	48.225	57.378	48.386	0.00	0.00
ATOM	508	CD2	PHE	X	33	47.093	59.276	48.343	0.00	0.00
ATOM	509	HD2	PHE	X	33	47.851	59.796	47.775	0.00	0.00
ATOM	510	C	PHE	X	33	45.382	62.316	50.760	0.00	0.00
ATOM	511	O	PHE	X	33	44.167	62.511	50.878	0.00	0.00
ATOM	512	N	ALA	X	34	46.133	61.842	51.770	0.00	0.00
ATOM	513	H	ALA	X	34	47.133	61.953	51.681	0.00	0.00
ATOM	514	CA	ALA	X	34	45.571	61.566	53.078	0.00	0.00
ATOM	515	HA	ALA	X	34	44.615	62.080	53.178	0.00	0.00
ATOM	516	CB	ALA	X	34	45.408	60.060	53.304	0.00	0.00
ATOM	517	HB1	ALA	X	34	46.334	59.486	53.288	0.00	0.00
ATOM	518	HB2	ALA	X	34	44.917	59.936	54.269	0.00	0.00
ATOM	519	HB3	ALA	X	34	44.676	59.702	52.580	0.00	0.00
ATOM	520	C	ALA	X	34	46.381	62.231	54.254	0.00	0.00
ATOM	521	O	ALA	X	34	47.532	62.760	54.125	0.00	0.00
ATOM	522	N	GLU	X	35	45.804	62.238	55.440	0.00	0.00
ATOM	523	H	GLU	X	35	44.867	61.863	55.424	0.00	0.00
ATOM	524	CA	GLU	X	35	46.372	62.449	56.753	0.00	0.00
ATOM	525	HA	GLU	X	35	47.159	63.195	56.643	0.00	0.00
ATOM	526	CB	GLU	X	35	45.348	62.951	57.801	0.00	0.00
ATOM	527	HB2	GLU	X	35	44.592	62.177	57.933	0.00	0.00
ATOM	528	HB3	GLU	X	35	45.933	63.120	58.705	0.00	0.00
ATOM	529	CG	GLU	X	35	44.638	64.289	57.480	0.00	0.00
ATOM	530	HG2	GLU	X	35	44.113	64.208	56.528	0.00	0.00
ATOM	531	HG3	GLU	X	35	43.966	64.470	58.319	0.00	0.00
ATOM	532	CD	GLU	X	35	45.634	65.523	57.429	0.00	0.00
ATOM	533	OE1	GLU	X	35	46.846	65.352	57.582	0.00	0.00
ATOM	534	OE2	GLU	X	35	45.156	66.684	57.264	0.00	0.00
ATOM	535	C	GLU	X	35	47.017	61.103	57.185	0.00	0.00
ATOM	536	O	GLU	X	35	46.533	60.006	56.811	0.00	0.00
ATOM	537	N	PRO	X	36	48.170	61.146	57.983	0.00	0.00
ATOM	538	CD	PRO	X	36	48.616	62.294	58.711	0.00	0.00
ATOM	539	HD2	PRO	X	36	47.892	62.731	59.398	0.00	0.00
ATOM	540	HD3	PRO	X	36	49.022	63.030	58.017	0.00	0.00
ATOM	541	CG	PRO	X	36	49.753	61.839	59.607	0.00	0.00
ATOM	542	HG2	PRO	X	36	49.309	61.579	60.568	0.00	0.00
ATOM	543	HG3	PRO	X	36	50.525	62.603	59.699	0.00	0.00
ATOM	544	CB	PRO	X	36	50.279	60.508	58.943	0.00	0.00
ATOM	545	HB2	PRO	X	36	50.697	59.761	59.618	0.00	0.00
ATOM	546	HB3	PRO	X	36	51.025	60.710	58.174	0.00	0.00
ATOM	547	CA	PRO	X	36	49.039	59.964	58.236	0.00	0.00
ATOM	548	HA	PRO	X	36	49.256	59.525	57.263	0.00	0.00
ATOM	549	C	PRO	X	36	48.402	58.906	59.092	0.00	0.00
ATOM	550	O	PRO	X	36	47.516	59.203	59.897	0.00	0.00
ATOM	551	N	PRO	X	37	48.802	57.538	58.987	0.00	0.00
ATOM	552	CD	PRO	X	37	49.742	57.063	58.006	0.00	0.00
ATOM	553	HD2	PRO	X	37	50.742	57.471	58.148	0.00	0.00
ATOM	554	HD3	PRO	X	37	49.376	57.360	57.023	0.00	0.00
ATOM	555	CG	PRO	X	37	49.763	55.577	57.986	0.00	0.00
ATOM	556	HG2	PRO	X	37	50.542	55.141	58.612	0.00	0.00
ATOM	557	HG3	PRO	X	37	49.805	55.095	57.009	0.00	0.00
ATOM	558	CB	PRO	X	37	48.424	55.207	58.611	0.00	0.00
ATOM	559	HB2	PRO	X	37	48.361	54.188	58.992	0.00	0.00
ATOM	560	HB3	PRO	X	37	47.626	55.195	57.869	0.00	0.00
ATOM	561	CA	PRO	X	37	48.157	56.412	59.635	0.00	0.00
ATOM	562	HA	PRO	X	37	47.085	56.609	59.605	0.00	0.00
ATOM	563	C	PRO	X	37	48.686	56.086	60.992	0.00	0.00
ATOM	564	O	PRO	X	37	48.102	55.216	61.637	0.00	0.00

ATOM	565	N	MET	X	38	49.721	56.720	61.500	0.00	0.00
ATOM	566	H	MET	X	38	50.132	57.484	60.984	0.00	0.00
ATOM	567	CA	MET	X	38	50.396	56.385	62.745	0.00	0.00
ATOM	568	HA	MET	X	38	50.956	55.450	62.714	0.00	0.00
ATOM	569	CB	MET	X	38	51.498	57.412	63.116	0.00	0.00
ATOM	570	HB2	MET	X	38	51.858	57.233	64.129	0.00	0.00
ATOM	571	HB3	MET	X	38	52.265	57.486	62.345	0.00	0.00
ATOM	572	CG	MET	X	38	50.969	58.857	63.312	0.00	0.00
ATOM	573	HG2	MET	X	38	49.923	58.940	63.018	0.00	0.00
ATOM	574	HG3	MET	X	38	50.996	59.034	64.387	0.00	0.00
ATOM	575	SD	MET	X	38	52.056	60.106	62.706	0.00	0.00
ATOM	576	CE	MET	X	38	51.133	61.538	63.159	0.00	0.00
ATOM	577	HE1	MET	X	38	51.526	62.390	62.605	0.00	0.00
ATOM	578	HE2	MET	X	38	50.090	61.350	62.904	0.00	0.00
ATOM	579	HE3	MET	X	38	51.126	61.691	64.238	0.00	0.00
ATOM	580	C	MET	X	38	49.415	56.244	63.999	0.00	0.00
ATOM	581	O	MET	X	38	48.377	56.982	64.017	0.00	0.00
ATOM	582	N	GLY	X	39	49.851	55.283	64.872	0.00	0.00
ATOM	583	H	GLY	X	39	50.706	54.766	64.722	0.00	0.00
ATOM	584	CA	GLY	X	39	49.403	55.259	66.254	0.00	0.00
ATOM	585	HA2	GLY	X	39	50.068	54.643	66.913	0.00	0.00
ATOM	586	HA3	GLY	X	39	49.528	56.311	66.650	0.00	0.00
ATOM	587	C	GLY	X	39	47.938	54.800	66.348	0.00	0.00
ATOM	588	O	GLY	X	39	47.701	53.657	66.011	0.00	0.00
ATOM	589	N	PRO	X	40	46.919	55.572	66.856	0.00	0.00
ATOM	590	CD	PRO	X	40	47.107	56.788	67.545	0.00	0.00
ATOM	591	HD2	PRO	X	40	47.667	57.561	67.019	0.00	0.00
ATOM	592	HD3	PRO	X	40	47.651	56.517	68.451	0.00	0.00
ATOM	593	CG	PRO	X	40	45.627	57.285	67.743	0.00	0.00
ATOM	594	HG2	PRO	X	40	45.466	57.891	66.852	0.00	0.00
ATOM	595	HG3	PRO	X	40	45.501	57.882	68.646	0.00	0.00
ATOM	596	CB	PRO	X	40	44.719	56.023	67.695	0.00	0.00
ATOM	597	HB2	PRO	X	40	43.739	56.294	67.301	0.00	0.00
ATOM	598	HB3	PRO	X	40	44.596	55.637	68.707	0.00	0.00
ATOM	599	CA	PRO	X	40	45.589	55.075	66.872	0.00	0.00
ATOM	600	HA	PRO	X	40	45.604	54.113	67.386	0.00	0.00
ATOM	601	C	PRO	X	40	44.915	54.874	65.484	0.00	0.00
ATOM	602	O	PRO	X	40	43.940	54.134	65.505	0.00	0.00
ATOM	603	N	ARG	X	41	45.384	55.525	64.398	0.00	0.00
ATOM	604	H	ARG	X	41	46.129	56.194	64.527	0.00	0.00
ATOM	605	CA	ARG	X	41	44.756	55.356	63.096	0.00	0.00
ATOM	606	HA	ARG	X	41	43.684	55.276	63.279	0.00	0.00
ATOM	607	CB	ARG	X	41	44.988	56.698	62.285	0.00	0.00
ATOM	608	HB2	ARG	X	41	44.690	57.540	62.910	0.00	0.00
ATOM	609	HB3	ARG	X	41	46.055	56.816	62.095	0.00	0.00
ATOM	610	CG	ARG	X	41	44.163	56.655	61.022	0.00	0.00
ATOM	611	HG2	ARG	X	41	44.479	55.786	60.444	0.00	0.00
ATOM	612	HG3	ARG	X	41	43.128	56.594	61.358	0.00	0.00
ATOM	613	CD	ARG	X	41	44.327	57.939	60.235	0.00	0.00
ATOM	614	HD2	ARG	X	41	45.385	58.086	60.017	0.00	0.00
ATOM	615	HD3	ARG	X	41	43.786	57.735	59.311	0.00	0.00
ATOM	616	NE	ARG	X	41	43.690	59.171	60.902	0.00	0.00
ATOM	617	HE	ARG	X	41	42.771	59.059	61.305	0.00	0.00
ATOM	618	CZ	ARG	X	41	44.058	60.393	61.167	0.00	0.00
ATOM	619	NH1	ARG	X	41	45.272	60.810	60.969	0.00	0.00
ATOM	620	HH11	ARG	X	41	45.957	60.127	60.677	0.00	0.00
ATOM	621	HH12	ARG	X	41	45.587	61.740	61.204	0.00	0.00
ATOM	622	NH2	ARG	X	41	43.175	61.233	61.641	0.00	0.00
ATOM	623	HH21	ARG	X	41	42.198	60.978	61.601	0.00	0.00
ATOM	624	HH22	ARG	X	41	43.392	62.178	61.924	0.00	0.00
ATOM	625	C	ARG	X	41	45.189	54.020	62.406	0.00	0.00
ATOM	626	O	ARG	X	41	44.550	53.552	61.428	0.00	0.00
ATOM	627	N	ARG	X	42	46.285	53.352	62.947	0.00	0.00
ATOM	628	H	ARG	X	42	46.803	53.759	63.713	0.00	0.00
ATOM	629	CA	ARG	X	42	46.655	51.950	62.627	0.00	0.00
ATOM	630	HA	ARG	X	42	47.069	51.941	61.619	0.00	0.00
ATOM	631	CB	ARG	X	42	47.749	51.587	63.636	0.00	0.00
ATOM	632	HB2	ARG	X	42	48.486	52.389	63.586	0.00	0.00
ATOM	633	HB3	ARG	X	42	47.328	51.652	64.639	0.00	0.00
ATOM	634	CG	ARG	X	42	48.386	50.262	63.315	0.00	0.00

ATOM	635	HG2	ARG	X	42	47.659	49.509	63.009	0.00	0.00
ATOM	636	HG3	ARG	X	42	49.048	50.475	62.476	0.00	0.00
ATOM	637	CD	ARG	X	42	49.231	49.568	64.338	0.00	0.00
ATOM	638	HD2	ARG	X	42	48.686	49.438	65.273	0.00	0.00
ATOM	639	HD3	ARG	X	42	49.481	48.535	64.096	0.00	0.00
ATOM	640	NE	ARG	X	42	50.415	50.322	64.754	0.00	0.00
ATOM	641	HE	ARG	X	42	50.715	51.061	64.136	0.00	0.00
ATOM	642	CZ	ARG	X	42	51.234	49.821	65.654	0.00	0.00
ATOM	643	NH1	ARG	X	42	51.067	48.886	66.531	0.00	0.00
ATOM	644	HH11	ARG	X	42	50.150	48.470	66.605	0.00	0.00
ATOM	645	HH12	ARG	X	42	51.786	48.753	67.228	0.00	0.00
ATOM	646	NH2	ARG	X	42	52.401	50.402	65.713	0.00	0.00
ATOM	647	HH21	ARG	X	42	52.702	51.127	65.076	0.00	0.00
ATOM	648	HH22	ARG	X	42	53.090	50.245	66.434	0.00	0.00
ATOM	649	C	ARG	X	42	45.449	50.928	62.698	0.00	0.00
ATOM	650	O	ARG	X	42	44.635	51.033	63.569	0.00	0.00
ATOM	651	N	PHE	X	43	45.254	50.146	61.574	0.00	0.00
ATOM	652	H	PHE	X	43	46.010	49.901	60.950	0.00	0.00
ATOM	653	CA	PHE	X	43	44.034	49.233	61.322	0.00	0.00
ATOM	654	HA	PHE	X	43	44.295	48.667	60.428	0.00	0.00
ATOM	655	CB	PHE	X	43	43.849	48.214	62.537	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.392	48.864	63.283	0.00	0.00
ATOM	657	HB3	PHE	X	43	43.217	47.366	62.275	0.00	0.00
ATOM	658	CG	PHE	X	43	45.091	47.570	63.170	0.00	0.00
ATOM	659	CD1	PHE	X	43	46.188	47.161	62.408	0.00	0.00
ATOM	660	HD1	PHE	X	43	46.169	47.364	61.347	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.379	46.702	63.032	0.00	0.00
ATOM	662	HE1	PHE	X	43	48.180	46.364	62.392	0.00	0.00
ATOM	663	CZ	PHE	X	43	47.251	46.448	64.403	0.00	0.00
ATOM	664	HZ	PHE	X	43	48.102	46.025	64.916	0.00	0.00
ATOM	665	CE2	PHE	X	43	46.154	46.785	65.139	0.00	0.00
ATOM	666	HE2	PHE	X	43	46.258	46.718	66.212	0.00	0.00
ATOM	667	CD2	PHE	X	43	45.105	47.441	64.555	0.00	0.00
ATOM	668	HD2	PHE	X	43	44.257	47.801	65.119	0.00	0.00
ATOM	669	C	PHE	X	43	42.690	49.935	60.991	0.00	0.00
ATOM	670	O	PHE	X	43	41.729	49.277	60.664	0.00	0.00
ATOM	671	N	LEU	X	44	42.605	51.236	61.183	0.00	0.00
ATOM	672	H	LEU	X	44	43.408	51.682	61.603	0.00	0.00
ATOM	673	CA	LEU	X	44	41.492	52.256	61.049	0.00	0.00
ATOM	674	HA	LEU	X	44	40.681	51.528	61.027	0.00	0.00
ATOM	675	CB	LEU	X	44	41.438	53.170	62.304	0.00	0.00
ATOM	676	HB2	LEU	X	44	42.456	53.250	62.687	0.00	0.00
ATOM	677	HB3	LEU	X	44	41.086	54.173	62.063	0.00	0.00
ATOM	678	CG	LEU	X	44	40.741	52.682	63.503	0.00	0.00
ATOM	679	HG	LEU	X	44	40.886	53.483	64.227	0.00	0.00
ATOM	680	CD1	LEU	X	44	39.178	52.648	63.377	0.00	0.00
ATOM	681	HD11	LEU	X	44	38.826	52.491	64.396	0.00	0.00
ATOM	682	HD12	LEU	X	44	38.738	53.578	63.018	0.00	0.00
ATOM	683	HD13	LEU	X	44	38.883	51.800	62.759	0.00	0.00
ATOM	684	CD2	LEU	X	44	41.240	51.363	64.195	0.00	0.00
ATOM	685	HD21	LEU	X	44	40.530	51.096	64.978	0.00	0.00
ATOM	686	HD22	LEU	X	44	41.317	50.550	63.474	0.00	0.00
ATOM	687	HD23	LEU	X	44	42.171	51.525	64.740	0.00	0.00
ATOM	688	C	LEU	X	44	41.541	53.083	59.754	0.00	0.00
ATOM	689	O	LEU	X	44	42.603	53.247	59.160	0.00	0.00
ATOM	690	N	PRO	X	45	40.339	53.649	59.373	0.00	0.00
ATOM	691	CD	PRO	X	45	39.012	53.236	59.769	0.00	0.00
ATOM	692	HD2	PRO	X	45	38.780	53.860	60.632	0.00	0.00
ATOM	693	HD3	PRO	X	45	39.016	52.149	59.849	0.00	0.00
ATOM	694	CG	PRO	X	45	38.131	53.487	58.632	0.00	0.00
ATOM	695	HG2	PRO	X	45	37.133	53.686	59.024	0.00	0.00
ATOM	696	HG3	PRO	X	45	38.155	52.600	57.998	0.00	0.00
ATOM	697	CB	PRO	X	45	38.743	54.672	57.851	0.00	0.00
ATOM	698	HB2	PRO	X	45	38.398	55.576	58.353	0.00	0.00
ATOM	699	HB3	PRO	X	45	38.513	54.772	56.790	0.00	0.00
ATOM	700	CA	PRO	X	45	40.239	54.398	58.130	0.00	0.00
ATOM	701	HA	PRO	X	45	40.666	53.787	57.334	0.00	0.00
ATOM	702	C	PRO	X	45	41.039	55.699	58.138	0.00	0.00
ATOM	703	O	PRO	X	45	41.233	56.335	59.186	0.00	0.00
ATOM	704	N	PRO	X	46	41.501	56.184	56.950	0.00	0.00

ATOM	705	CD	PRO	X	46	41.541	55.497	55.708	0.00	0.00
ATOM	706	HD2	PRO	X	46	40.563	55.033	55.590	0.00	0.00
ATOM	707	HD3	PRO	X	46	42.404	54.832	55.693	0.00	0.00
ATOM	708	CG	PRO	X	46	41.835	56.508	54.657	0.00	0.00
ATOM	709	HG2	PRO	X	46	40.894	57.029	54.478	0.00	0.00
ATOM	710	HG3	PRO	X	46	42.264	56.110	53.737	0.00	0.00
ATOM	711	CB	PRO	X	46	42.741	57.472	55.374	0.00	0.00
ATOM	712	HB2	PRO	X	46	42.783	58.446	54.887	0.00	0.00
ATOM	713	HB3	PRO	X	46	43.759	57.099	55.494	0.00	0.00
ATOM	714	CA	PRO	X	46	42.106	57.442	56.718	0.00	0.00
ATOM	715	HA	PRO	X	46	42.908	57.638	57.430	0.00	0.00
ATOM	716	C	PRO	X	46	41.124	58.644	56.761	0.00	0.00
ATOM	717	O	PRO	X	46	39.873	58.462	56.607	0.00	0.00
ATOM	718	N	GLU	X	47	41.653	59.865	56.945	0.00	0.00
ATOM	719	H	GLU	X	47	42.663	59.865	56.950	0.00	0.00
ATOM	720	CA	GLU	X	47	40.972	61.131	56.586	0.00	0.00
ATOM	721	HA	GLU	X	47	39.972	60.830	56.275	0.00	0.00
ATOM	722	CB	GLU	X	47	40.921	62.025	57.860	0.00	0.00
ATOM	723	HB2	GLU	X	47	41.974	62.125	58.122	0.00	0.00
ATOM	724	HB3	GLU	X	47	40.539	63.019	57.628	0.00	0.00
ATOM	725	CG	GLU	X	47	40.198	61.420	58.993	0.00	0.00
ATOM	726	HG2	GLU	X	47	39.207	61.395	58.539	0.00	0.00
ATOM	727	HG3	GLU	X	47	40.625	60.439	59.204	0.00	0.00
ATOM	728	CD	GLU	X	47	40.130	62.323	60.284	0.00	0.00
ATOM	729	OE1	GLU	X	47	39.619	63.457	60.170	0.00	0.00
ATOM	730	OE2	GLU	X	47	40.428	61.838	61.403	0.00	0.00
ATOM	731	C	GLU	X	47	41.768	62.016	55.527	0.00	0.00
ATOM	732	O	GLU	X	47	42.975	61.831	55.395	0.00	0.00
ATOM	733	N	PRO	X	48	41.095	62.855	54.747	0.00	0.00
ATOM	734	CD	PRO	X	48	39.652	63.051	54.805	0.00	0.00
ATOM	735	HD2	PRO	X	48	39.520	63.879	55.502	0.00	0.00
ATOM	736	HD3	PRO	X	48	39.069	62.165	55.058	0.00	0.00
ATOM	737	CG	PRO	X	48	39.213	63.577	53.455	0.00	0.00
ATOM	738	HG2	PRO	X	48	38.404	64.307	53.490	0.00	0.00
ATOM	739	HG3	PRO	X	48	38.897	62.698	52.892	0.00	0.00
ATOM	740	CB	PRO	X	48	40.430	64.181	52.808	0.00	0.00
ATOM	741	HB2	PRO	X	48	40.407	65.271	52.798	0.00	0.00
ATOM	742	HB3	PRO	X	48	40.482	63.769	51.801	0.00	0.00
ATOM	743	CA	PRO	X	48	41.594	63.614	53.612	0.00	0.00
ATOM	744	HA	PRO	X	48	42.232	62.993	52.984	0.00	0.00
ATOM	745	C	PRO	X	48	42.529	64.768	54.087	0.00	0.00
ATOM	746	O	PRO	X	48	42.268	65.509	55.012	0.00	0.00
ATOM	747	N	LYS	X	49	43.746	64.900	53.450	0.00	0.00
ATOM	748	H	LYS	X	49	44.066	64.233	52.763	0.00	0.00
ATOM	749	CA	LYS	X	49	44.708	65.883	53.691	0.00	0.00
ATOM	750	HA	LYS	X	49	45.090	65.773	54.706	0.00	0.00
ATOM	751	CB	LYS	X	49	45.927	65.637	52.779	0.00	0.00
ATOM	752	HB2	LYS	X	49	46.296	64.612	52.821	0.00	0.00
ATOM	753	HB3	LYS	X	49	45.594	65.821	51.758	0.00	0.00
ATOM	754	CG	LYS	X	49	47.022	66.629	52.965	0.00	0.00
ATOM	755	HG2	LYS	X	49	47.660	66.412	52.108	0.00	0.00
ATOM	756	HG3	LYS	X	49	46.661	67.639	52.770	0.00	0.00
ATOM	757	CD	LYS	X	49	47.985	66.653	54.197	0.00	0.00
ATOM	758	HD2	LYS	X	49	47.288	66.817	55.018	0.00	0.00
ATOM	759	HD3	LYS	X	49	48.528	65.726	54.381	0.00	0.00
ATOM	760	CE	LYS	X	49	48.983	67.769	53.972	0.00	0.00
ATOM	761	HE2	LYS	X	49	49.760	67.517	53.251	0.00	0.00
ATOM	762	HE3	LYS	X	49	48.579	68.689	53.548	0.00	0.00
ATOM	763	NZ	LYS	X	49	49.734	68.167	55.211	0.00	0.00
ATOM	764	HZ1	LYS	X	49	50.288	68.988	55.012	0.00	0.00
ATOM	765	HZ2	LYS	X	49	49.132	68.383	55.993	0.00	0.00
ATOM	766	HZ3	LYS	X	49	50.262	67.371	55.538	0.00	0.00
ATOM	767	C	LYS	X	49	44.176	67.338	53.759	0.00	0.00
ATOM	768	O	LYS	X	49	43.671	67.821	52.757	0.00	0.00
ATOM	769	N	GLN	X	50	44.529	68.094	54.808	0.00	0.00
ATOM	770	H	GLN	X	50	44.820	67.651	55.668	0.00	0.00
ATOM	771	CA	GLN	X	50	44.150	69.439	54.919	0.00	0.00
ATOM	772	HA	GLN	X	50	43.114	69.558	54.605	0.00	0.00
ATOM	773	CB	GLN	X	50	44.299	69.865	56.345	0.00	0.00
ATOM	774	HB2	GLN	X	50	45.180	69.415	56.801	0.00	0.00

ATOM	775	HB3	GLN	X	50	44.314	70.944	56.495	0.00	0.00
ATOM	776	CG	GLN	X	50	43.049	69.382	56.985	0.00	0.00
ATOM	777	HG2	GLN	X	50	42.148	69.773	56.512	0.00	0.00
ATOM	778	HG3	GLN	X	50	42.954	68.299	56.903	0.00	0.00
ATOM	779	CD	GLN	X	50	42.954	69.846	58.452	0.00	0.00
ATOM	780	OE1	GLN	X	50	42.227	70.780	58.793	0.00	0.00
ATOM	781	NE2	GLN	X	50	43.624	69.155	59.317	0.00	0.00
ATOM	782	HE21	GLN	X	50	43.524	69.406	60.290	0.00	0.00
ATOM	783	HE22	GLN	X	50	44.195	68.346	59.121	0.00	0.00
ATOM	784	C	GLN	X	50	45.004	70.332	53.976	0.00	0.00
ATOM	785	O	GLN	X	50	46.020	69.844	53.496	0.00	0.00
ATOM	786	N	PRO	X	51	44.610	71.598	53.777	0.00	0.00
ATOM	787	CD	PRO	X	51	43.280	72.168	54.072	0.00	0.00
ATOM	788	HD2	PRO	X	51	43.087	72.218	55.143	0.00	0.00
ATOM	789	HD3	PRO	X	51	42.420	71.618	53.690	0.00	0.00
ATOM	790	CG	PRO	X	51	43.263	73.575	53.550	0.00	0.00
ATOM	791	HG2	PRO	X	51	43.565	74.343	54.262	0.00	0.00
ATOM	792	HG3	PRO	X	51	42.267	73.792	53.166	0.00	0.00
ATOM	793	CB	PRO	X	51	44.228	73.481	52.446	0.00	0.00
ATOM	794	HB2	PRO	X	51	44.698	74.420	52.151	0.00	0.00
ATOM	795	HB3	PRO	X	51	43.697	73.061	51.593	0.00	0.00
ATOM	796	CA	PRO	X	51	45.251	72.441	52.816	0.00	0.00
ATOM	797	HA	PRO	X	51	45.395	71.966	51.846	0.00	0.00
ATOM	798	C	PRO	X	51	46.540	73.082	53.448	0.00	0.00
ATOM	799	O	PRO	X	51	46.681	73.055	54.690	0.00	0.00
ATOM	800	N	TRP	X	52	47.436	73.550	52.615	0.00	0.00
ATOM	801	H	TRP	X	52	47.113	73.559	51.658	0.00	0.00
ATOM	802	CA	TRP	X	52	48.732	74.107	52.943	0.00	0.00
ATOM	803	HA	TRP	X	52	48.795	74.197	54.028	0.00	0.00
ATOM	804	CB	TRP	X	52	49.841	73.076	52.491	0.00	0.00
ATOM	805	HB2	TRP	X	52	50.840	73.420	52.759	0.00	0.00
ATOM	806	HB3	TRP	X	52	49.739	72.128	53.018	0.00	0.00
ATOM	807	CG	TRP	X	52	49.842	72.599	51.084	0.00	0.00
ATOM	808	CD1	TRP	X	52	50.590	73.163	50.160	0.00	0.00
ATOM	809	HD1	TRP	X	52	51.193	74.049	50.296	0.00	0.00
ATOM	810	NE1	TRP	X	52	50.384	72.537	48.877	0.00	0.00
ATOM	811	HE1	TRP	X	52	50.783	72.923	48.033	0.00	0.00
ATOM	812	CE2	TRP	X	52	49.511	71.477	49.038	0.00	0.00
ATOM	813	CZ2	TRP	X	52	49.015	70.508	48.140	0.00	0.00
ATOM	814	HZ2	TRP	X	52	49.417	70.462	47.139	0.00	0.00
ATOM	815	CH2	TRP	X	52	48.184	69.510	48.644	0.00	0.00
ATOM	816	HH2	TRP	X	52	47.763	68.743	48.010	0.00	0.00
ATOM	817	CZ3	TRP	X	52	47.824	69.521	49.983	0.00	0.00
ATOM	818	HZ3	TRP	X	52	47.080	68.794	50.274	0.00	0.00
ATOM	819	CE3	TRP	X	52	48.280	70.443	50.876	0.00	0.00
ATOM	820	HE3	TRP	X	52	47.771	70.410	51.828	0.00	0.00
ATOM	821	CD2	TRP	X	52	49.165	71.443	50.452	0.00	0.00
ATOM	822	C	TRP	X	52	48.918	75.519	52.162	0.00	0.00
ATOM	823	O	TRP	X	52	48.369	75.803	51.071	0.00	0.00
ATOM	824	N	SER	X	53	49.641	76.381	52.794	0.00	0.00
ATOM	825	H	SER	X	53	50.088	76.055	53.638	0.00	0.00
ATOM	826	CA	SER	X	53	49.597	77.822	52.576	0.00	0.00
ATOM	827	HA	SER	X	53	48.570	78.185	52.536	0.00	0.00
ATOM	828	CB	SER	X	53	50.165	78.524	53.837	0.00	0.00
ATOM	829	HB2	SER	X	53	51.113	78.072	54.126	0.00	0.00
ATOM	830	HB3	SER	X	53	50.196	79.586	53.594	0.00	0.00
ATOM	831	OG	SER	X	53	49.279	78.465	54.943	0.00	0.00
ATOM	832	HG	SER	X	53	48.393	78.812	54.816	0.00	0.00
ATOM	833	C	SER	X	53	50.411	78.286	51.383	0.00	0.00
ATOM	834	O	SER	X	53	50.253	79.345	50.831	0.00	0.00
ATOM	835	N	GLY	X	54	51.435	77.475	50.949	0.00	0.00
ATOM	836	H	GLY	X	54	51.707	76.721	51.563	0.00	0.00
ATOM	837	CA	GLY	X	54	52.332	77.790	49.798	0.00	0.00
ATOM	838	HA2	GLY	X	54	51.949	78.550	49.148	0.00	0.00
ATOM	839	HA3	GLY	X	54	53.325	78.174	50.050	0.00	0.00
ATOM	840	C	GLY	X	54	52.662	76.477	49.080	0.00	0.00
ATOM	841	O	GLY	X	54	51.737	76.073	48.425	0.00	0.00
ATOM	842	N	VAL	X	55	53.829	75.906	49.124	0.00	0.00
ATOM	843	H	VAL	X	55	54.535	76.388	49.662	0.00	0.00
ATOM	844	CA	VAL	X	55	54.199	74.736	48.284	0.00	0.00

ATOM	845	HA	VAL	X	55	53.380	74.531	47.594	0.00	0.00
ATOM	846	CB	VAL	X	55	55.455	75.086	47.453	0.00	0.00
ATOM	847	HB	VAL	X	55	56.212	75.405	48.169	0.00	0.00
ATOM	848	CG1	VAL	X	55	55.851	73.873	46.611	0.00	0.00
ATOM	849	HG11	VAL	X	55	56.675	74.072	45.925	0.00	0.00
ATOM	850	HG12	VAL	X	55	56.150	73.001	47.192	0.00	0.00
ATOM	851	HG13	VAL	X	55	54.939	73.648	46.058	0.00	0.00
ATOM	852	CG2	VAL	X	55	55.294	76.172	46.421	0.00	0.00
ATOM	853	HG21	VAL	X	55	56.208	76.239	45.831	0.00	0.00
ATOM	854	HG22	VAL	X	55	54.483	75.941	45.730	0.00	0.00
ATOM	855	HG23	VAL	X	55	55.082	77.098	46.956	0.00	0.00
ATOM	856	C	VAL	X	55	54.394	73.401	49.040	0.00	0.00
ATOM	857	O	VAL	X	55	55.290	73.378	49.825	0.00	0.00
ATOM	858	N	VAL	X	56	53.868	72.299	48.623	0.00	0.00
ATOM	859	H	VAL	X	56	53.190	72.291	47.874	0.00	0.00
ATOM	860	CA	VAL	X	56	54.325	71.006	49.070	0.00	0.00
ATOM	861	HA	VAL	X	56	54.864	71.066	50.015	0.00	0.00
ATOM	862	CB	VAL	X	56	53.117	70.022	49.215	0.00	0.00
ATOM	863	HB	VAL	X	56	52.347	70.184	48.460	0.00	0.00
ATOM	864	CG1	VAL	X	56	53.459	68.531	49.134	0.00	0.00
ATOM	865	HG11	VAL	X	56	53.923	68.154	48.222	0.00	0.00
ATOM	866	HG12	VAL	X	56	54.154	68.414	49.965	0.00	0.00
ATOM	867	HG13	VAL	X	56	52.586	67.963	49.455	0.00	0.00
ATOM	868	CG2	VAL	X	56	52.425	70.103	50.601	0.00	0.00
ATOM	869	HG21	VAL	X	56	51.529	69.487	50.683	0.00	0.00
ATOM	870	HG22	VAL	X	56	53.154	69.983	51.402	0.00	0.00
ATOM	871	HG23	VAL	X	56	52.028	71.113	50.701	0.00	0.00
ATOM	872	C	VAL	X	56	55.366	70.539	47.999	0.00	0.00
ATOM	873	O	VAL	X	56	55.006	70.266	46.851	0.00	0.00
ATOM	874	N	ASP	X	57	56.643	70.401	48.409	0.00	0.00
ATOM	875	H	ASP	X	57	56.806	70.503	49.401	0.00	0.00
ATOM	876	CA	ASP	X	57	57.591	69.577	47.649	0.00	0.00
ATOM	877	HA	ASP	X	57	57.819	70.036	46.687	0.00	0.00
ATOM	878	CB	ASP	X	57	58.863	69.437	48.433	0.00	0.00
ATOM	879	HB2	ASP	X	57	59.100	70.438	48.794	0.00	0.00
ATOM	880	HB3	ASP	X	57	58.789	68.874	49.362	0.00	0.00
ATOM	881	CG	ASP	X	57	60.049	69.060	47.531	0.00	0.00
ATOM	882	OD1	ASP	X	57	60.964	69.924	47.498	0.00	0.00
ATOM	883	OD2	ASP	X	57	60.108	67.915	46.999	0.00	0.00
ATOM	884	C	ASP	X	57	57.046	68.236	47.217	0.00	0.00
ATOM	885	O	ASP	X	57	56.423	67.539	47.998	0.00	0.00
ATOM	886	N	ALA	X	58	57.231	67.866	45.925	0.00	0.00
ATOM	887	H	ALA	X	58	57.706	68.524	45.324	0.00	0.00
ATOM	888	CA	ALA	X	58	56.727	66.729	45.247	0.00	0.00
ATOM	889	HA	ALA	X	58	56.272	66.113	46.023	0.00	0.00
ATOM	890	CB	ALA	X	58	55.551	67.107	44.221	0.00	0.00
ATOM	891	HB1	ALA	X	58	54.931	66.212	44.179	0.00	0.00
ATOM	892	HB2	ALA	X	58	54.962	67.898	44.687	0.00	0.00
ATOM	893	HB3	ALA	X	58	55.924	67.390	43.237	0.00	0.00
ATOM	894	C	ALA	X	58	57.865	66.044	44.515	0.00	0.00
ATOM	895	O	ALA	X	58	57.637	65.438	43.464	0.00	0.00
ATOM	896	N	THR	X	59	59.127	66.222	44.940	0.00	0.00
ATOM	897	H	THR	X	59	59.271	66.718	45.808	0.00	0.00
ATOM	898	CA	THR	X	59	60.346	65.874	44.249	0.00	0.00
ATOM	899	HA	THR	X	59	60.047	65.964	43.205	0.00	0.00
ATOM	900	CB	THR	X	59	61.566	66.826	44.423	0.00	0.00
ATOM	901	HB	THR	X	59	62.420	66.458	43.854	0.00	0.00
ATOM	902	CG2	THR	X	59	61.222	68.268	43.998	0.00	0.00
ATOM	903	HG21	THR	X	59	60.231	68.316	43.546	0.00	0.00
ATOM	904	HG22	THR	X	59	61.268	68.863	44.911	0.00	0.00
ATOM	905	HG23	THR	X	59	61.968	68.513	43.243	0.00	0.00
ATOM	906	OG1	THR	X	59	62.104	66.738	45.723	0.00	0.00
ATOM	907	HG1	THR	X	59	61.537	67.314	46.240	0.00	0.00
ATOM	908	C	THR	X	59	60.798	64.408	44.478	0.00	0.00
ATOM	909	O	THR	X	59	61.646	63.937	43.772	0.00	0.00
ATOM	910	N	THR	X	60	60.237	63.688	45.485	0.00	0.00
ATOM	911	H	THR	X	60	59.533	64.187	46.010	0.00	0.00
ATOM	912	CA	THR	X	60	60.707	62.413	46.056	0.00	0.00
ATOM	913	HA	THR	X	60	60.881	61.885	45.118	0.00	0.00
ATOM	914	CB	THR	X	60	61.980	62.584	46.827	0.00	0.00

ATOM	915	HB	THR	X	60	62.744	63.003	46.172	0.00	0.00
ATOM	916	CG2	THR	X	60	61.918	63.473	48.061	0.00	0.00
ATOM	917	HG21	THR	X	60	61.575	64.482	47.831	0.00	0.00
ATOM	918	HG22	THR	X	60	61.213	62.973	48.724	0.00	0.00
ATOM	919	HG23	THR	X	60	62.934	63.583	48.440	0.00	0.00
ATOM	920	OG1	THR	X	60	62.535	61.288	47.020	0.00	0.00
ATOM	921	HG1	THR	X	60	63.018	61.157	46.200	0.00	0.00
ATOM	922	C	THR	X	60	59.591	61.622	46.716	0.00	0.00
ATOM	923	O	THR	X	60	58.806	62.243	47.435	0.00	0.00
ATOM	924	N	PHE	X	61	59.576	60.350	46.519	0.00	0.00
ATOM	925	H	PHE	X	61	60.392	59.981	46.053	0.00	0.00
ATOM	926	CA	PHE	X	61	58.816	59.367	47.364	0.00	0.00
ATOM	927	HA	PHE	X	61	58.295	59.873	48.176	0.00	0.00
ATOM	928	CB	PHE	X	61	57.945	58.540	46.364	0.00	0.00
ATOM	929	HB2	PHE	X	61	57.198	59.268	46.048	0.00	0.00
ATOM	930	HB3	PHE	X	61	58.585	58.303	45.515	0.00	0.00
ATOM	931	CG	PHE	X	61	57.264	57.289	46.898	0.00	0.00
ATOM	932	CD1	PHE	X	61	57.885	56.073	46.920	0.00	0.00
ATOM	933	HD1	PHE	X	61	58.799	55.826	46.401	0.00	0.00
ATOM	934	CE1	PHE	X	61	57.192	55.025	47.526	0.00	0.00
ATOM	935	HE1	PHE	X	61	57.725	54.089	47.609	0.00	0.00
ATOM	936	CZ	PHE	X	61	55.898	55.067	48.029	0.00	0.00
ATOM	937	HZ	PHE	X	61	55.429	54.200	48.469	0.00	0.00
ATOM	938	CE2	PHE	X	61	55.214	56.290	47.885	0.00	0.00
ATOM	939	HE2	PHE	X	61	54.190	56.413	48.204	0.00	0.00
ATOM	940	CD2	PHE	X	61	55.890	57.399	47.352	0.00	0.00
ATOM	941	HD2	PHE	X	61	55.349	58.317	47.174	0.00	0.00
ATOM	942	C	PHE	X	61	59.796	58.492	48.135	0.00	0.00
ATOM	943	O	PHE	X	61	60.755	58.005	47.567	0.00	0.00
ATOM	944	N	GLN	X	62	59.600	58.289	49.468	0.00	0.00
ATOM	945	H	GLN	X	62	58.807	58.736	49.905	0.00	0.00
ATOM	946	CA	GLN	X	62	60.724	57.942	50.363	0.00	0.00
ATOM	947	HA	GLN	X	62	61.525	57.387	49.873	0.00	0.00
ATOM	948	CB	GLN	X	62	61.250	59.237	50.959	0.00	0.00
ATOM	949	HB2	GLN	X	62	60.401	59.846	51.272	0.00	0.00
ATOM	950	HB3	GLN	X	62	61.813	59.136	51.887	0.00	0.00
ATOM	951	CG	GLN	X	62	62.169	60.019	50.029	0.00	0.00
ATOM	952	HG2	GLN	X	62	61.604	60.191	49.112	0.00	0.00
ATOM	953	HG3	GLN	X	62	62.462	60.959	50.497	0.00	0.00
ATOM	954	CD	GLN	X	62	63.535	59.267	49.711	0.00	0.00
ATOM	955	OE1	GLN	X	62	64.019	58.456	50.492	0.00	0.00
ATOM	956	NE2	GLN	X	62	63.964	59.269	48.442	0.00	0.00
ATOM	957	HE21	GLN	X	62	64.758	58.701	48.183	0.00	0.00
ATOM	958	HE22	GLN	X	62	63.357	59.611	47.711	0.00	0.00
ATOM	959	C	GLN	X	62	60.322	57.068	51.550	0.00	0.00
ATOM	960	O	GLN	X	62	61.257	56.703	52.291	0.00	0.00
ATOM	961	N	SER	X	63	59.013	56.788	51.818	0.00	0.00
ATOM	962	H	SER	X	63	58.280	57.090	51.192	0.00	0.00
ATOM	963	CA	SER	X	63	58.680	55.903	52.923	0.00	0.00
ATOM	964	HA	SER	X	63	59.476	55.185	53.120	0.00	0.00
ATOM	965	CB	SER	X	63	58.271	56.666	54.282	0.00	0.00
ATOM	966	HB2	SER	X	63	58.035	56.055	55.153	0.00	0.00
ATOM	967	HB3	SER	X	63	59.108	57.325	54.514	0.00	0.00
ATOM	968	OG	SER	X	63	57.038	57.451	54.206	0.00	0.00
ATOM	969	HG	SER	X	63	56.321	57.031	54.685	0.00	0.00
ATOM	970	C	SER	X	63	57.484	55.004	52.560	0.00	0.00
ATOM	971	O	SER	X	63	56.571	55.410	51.837	0.00	0.00
ATOM	972	N	VAL	X	64	57.390	53.748	53.146	0.00	0.00
ATOM	973	H	VAL	X	64	58.108	53.622	53.845	0.00	0.00
ATOM	974	CA	VAL	X	64	56.242	52.817	53.039	0.00	0.00
ATOM	975	HA	VAL	X	64	55.365	53.403	52.767	0.00	0.00
ATOM	976	CB	VAL	X	64	56.452	51.722	51.955	0.00	0.00
ATOM	977	HB	VAL	X	64	55.602	51.054	52.094	0.00	0.00
ATOM	978	CG1	VAL	X	64	56.342	52.347	50.548	0.00	0.00
ATOM	979	HG11	VAL	X	64	57.090	53.124	50.389	0.00	0.00
ATOM	980	HG12	VAL	X	64	56.592	51.613	49.782	0.00	0.00
ATOM	981	HG13	VAL	X	64	55.345	52.709	50.300	0.00	0.00
ATOM	982	CG2	VAL	X	64	57.897	51.084	52.151	0.00	0.00
ATOM	983	HG21	VAL	X	64	58.012	50.305	51.396	0.00	0.00
ATOM	984	HG22	VAL	X	64	58.709	51.808	52.086	0.00	0.00

ATOM	985	HG23	VAL	X	64	58.046	50.686	53.154	0.00	0.00
ATOM	986	C	VAL	X	64	55.920	52.083	54.319	0.00	0.00
ATOM	987	O	VAL	X	64	56.780	51.931	55.203	0.00	0.00
ATOM	988	N	CYX	X	65	54.716	51.594	54.411	0.00	0.00
ATOM	989	H	CYX	X	65	54.052	51.840	53.691	0.00	0.00
ATOM	990	CA	CYX	X	65	54.177	50.972	55.619	0.00	0.00
ATOM	991	HA	CYX	X	65	54.299	51.702	56.418	0.00	0.00
ATOM	992	CB	CYX	X	65	52.650	50.751	55.610	0.00	0.00
ATOM	993	HB2	CYX	X	65	52.404	49.690	55.600	0.00	0.00
ATOM	994	HB3	CYX	X	65	52.259	51.102	56.565	0.00	0.00
ATOM	995	SG	CYX	X	65	51.744	51.571	54.346	0.00	0.00
ATOM	996	C	CYX	X	65	55.025	49.710	55.999	0.00	0.00
ATOM	997	O	CYX	X	65	55.439	48.920	55.107	0.00	0.00
ATOM	998	N	TYR	X	66	55.224	49.477	57.301	0.00	0.00
ATOM	999	H	TYR	X	66	54.725	50.158	57.855	0.00	0.00
ATOM	1000	CA	TYR	X	66	55.732	48.196	57.805	0.00	0.00
ATOM	1001	HA	TYR	X	66	56.814	48.105	57.709	0.00	0.00
ATOM	1002	CB	TYR	X	66	55.489	48.161	59.275	0.00	0.00
ATOM	1003	HB2	TYR	X	66	54.473	48.511	59.456	0.00	0.00
ATOM	1004	HB3	TYR	X	66	55.516	47.103	59.535	0.00	0.00
ATOM	1005	CG	TYR	X	66	56.546	48.995	60.011	0.00	0.00
ATOM	1006	CD1	TYR	X	66	56.132	50.310	60.318	0.00	0.00
ATOM	1007	HD1	TYR	X	66	55.162	50.622	59.961	0.00	0.00
ATOM	1008	CE1	TYR	X	66	56.969	51.164	61.037	0.00	0.00
ATOM	1009	HE1	TYR	X	66	56.583	52.090	61.437	0.00	0.00
ATOM	1010	CZ	TYR	X	66	58.203	50.705	61.397	0.00	0.00
ATOM	1011	OH	TYR	X	66	58.857	51.482	62.289	0.00	0.00
ATOM	1012	HH	TYR	X	66	58.377	52.279	62.526	0.00	0.00
ATOM	1013	CE2	TYR	X	66	58.719	49.432	61.034	0.00	0.00
ATOM	1014	HE2	TYR	X	66	59.732	49.160	61.292	0.00	0.00
ATOM	1015	CD2	TYR	X	66	57.783	48.516	60.395	0.00	0.00
ATOM	1016	HD2	TYR	X	66	58.054	47.512	60.104	0.00	0.00
ATOM	1017	C	TYR	X	66	55.174	46.916	57.162	0.00	0.00
ATOM	1018	O	TYR	X	66	53.902	46.715	57.120	0.00	0.00
ATOM	1019	N	GLN	X	67	55.982	46.021	56.558	0.00	0.00
ATOM	1020	H	GLN	X	67	56.973	46.188	56.657	0.00	0.00
ATOM	1021	CA	GLN	X	67	55.440	44.827	55.855	0.00	0.00
ATOM	1022	HA	GLN	X	67	54.448	44.492	56.159	0.00	0.00
ATOM	1023	CB	GLN	X	67	55.257	45.309	54.427	0.00	0.00
ATOM	1024	HB2	GLN	X	67	54.794	44.530	53.820	0.00	0.00
ATOM	1025	HB3	GLN	X	67	54.525	46.113	54.501	0.00	0.00
ATOM	1026	CG	GLN	X	67	56.433	45.926	53.715	0.00	0.00
ATOM	1027	HG2	GLN	X	67	56.963	46.660	54.322	0.00	0.00
ATOM	1028	HG3	GLN	X	67	57.108	45.077	53.606	0.00	0.00
ATOM	1029	CD	GLN	X	67	56.052	46.531	52.349	0.00	0.00
ATOM	1030	OE1	GLN	X	67	56.309	45.952	51.251	0.00	0.00
ATOM	1031	NE2	GLN	X	67	55.493	47.742	52.402	0.00	0.00
ATOM	1032	HE21	GLN	X	67	55.257	48.069	51.476	0.00	0.00
ATOM	1033	HE22	GLN	X	67	55.326	48.230	53.271	0.00	0.00
ATOM	1034	C	GLN	X	67	56.497	43.701	55.945	0.00	0.00
ATOM	1035	O	GLN	X	67	57.584	43.888	56.479	0.00	0.00
ATOM	1036	N	TYR	X	68	56.379	42.780	55.039	0.00	0.00
ATOM	1037	H	TYR	X	68	55.584	42.798	54.417	0.00	0.00
ATOM	1038	CA	TYR	X	68	57.495	41.879	54.713	0.00	0.00
ATOM	1039	HA	TYR	X	68	57.858	41.303	55.565	0.00	0.00
ATOM	1040	CB	TYR	X	68	56.974	40.817	53.666	0.00	0.00
ATOM	1041	HB2	TYR	X	68	56.021	40.399	53.990	0.00	0.00
ATOM	1042	HB3	TYR	X	68	56.871	41.348	52.720	0.00	0.00
ATOM	1043	CG	TYR	X	68	58.003	39.758	53.466	0.00	0.00
ATOM	1044	CD1	TYR	X	68	58.373	38.939	54.616	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.974	39.016	55.617	0.00	0.00
ATOM	1046	CE1	TYR	X	68	59.266	37.896	54.424	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.582	37.251	55.231	0.00	0.00
ATOM	1048	CZ	TYR	X	68	59.835	37.644	53.151	0.00	0.00
ATOM	1049	OH	TYR	X	68	60.750	36.575	53.010	0.00	0.00
ATOM	1050	HH	TYR	X	68	61.007	36.187	53.850	0.00	0.00
ATOM	1051	CE2	TYR	X	68	59.563	38.519	52.109	0.00	0.00
ATOM	1052	HE2	TYR	X	68	59.958	38.364	51.115	0.00	0.00
ATOM	1053	CD2	TYR	X	68	58.611	39.581	52.204	0.00	0.00
ATOM	1054	HD2	TYR	X	68	58.384	40.320	51.450	0.00	0.00

ATOM	1055	C	TYR	X	68	58.816	42.453	54.152	0.00	0.00
ATOM	1056	O	TYR	X	68	58.870	42.990	53.072	0.00	0.00
ATOM	1057	N	VAL	X	69	59.894	42.131	54.930	0.00	0.00
ATOM	1058	H	VAL	X	69	59.761	41.823	55.883	0.00	0.00
ATOM	1059	CA	VAL	X	69	61.269	42.283	54.358	0.00	0.00
ATOM	1060	HA	VAL	X	69	61.300	42.794	53.396	0.00	0.00
ATOM	1061	CB	VAL	X	69	62.192	43.143	55.304	0.00	0.00
ATOM	1062	HB	VAL	X	69	62.216	42.583	56.239	0.00	0.00
ATOM	1063	CG1	VAL	X	69	63.620	43.397	54.748	0.00	0.00
ATOM	1064	HG11	VAL	X	69	63.674	43.205	53.677	0.00	0.00
ATOM	1065	HG12	VAL	X	69	63.857	44.448	54.912	0.00	0.00
ATOM	1066	HG13	VAL	X	69	64.412	42.744	55.114	0.00	0.00
ATOM	1067	CG2	VAL	X	69	61.537	44.524	55.523	0.00	0.00
ATOM	1068	HG21	VAL	X	69	60.640	44.464	56.140	0.00	0.00
ATOM	1069	HG22	VAL	X	69	62.193	45.265	55.980	0.00	0.00
ATOM	1070	HG23	VAL	X	69	61.385	44.982	54.545	0.00	0.00
ATOM	1071	C	VAL	X	69	61.980	40.917	54.169	0.00	0.00
ATOM	1072	O	VAL	X	69	61.880	40.013	54.951	0.00	0.00
ATOM	1073	N	ASP	X	70	62.833	40.771	53.174	0.00	0.00
ATOM	1074	H	ASP	X	70	62.905	41.561	52.548	0.00	0.00
ATOM	1075	CA	ASP	X	70	63.241	39.486	52.607	0.00	0.00
ATOM	1076	HA	ASP	X	70	62.251	39.088	52.384	0.00	0.00
ATOM	1077	CB	ASP	X	70	64.049	39.655	51.277	0.00	0.00
ATOM	1078	HB2	ASP	X	70	63.312	39.994	50.548	0.00	0.00
ATOM	1079	HB3	ASP	X	70	64.748	40.491	51.295	0.00	0.00
ATOM	1080	CG	ASP	X	70	64.736	38.353	50.905	0.00	0.00
ATOM	1081	OD1	ASP	X	70	65.942	38.224	51.149	0.00	0.00
ATOM	1082	OD2	ASP	X	70	64.022	37.387	50.480	0.00	0.00
ATOM	1083	C	ASP	X	70	64.029	38.714	53.685	0.00	0.00
ATOM	1084	O	ASP	X	70	65.123	39.195	54.058	0.00	0.00
ATOM	1085	N	THR	X	71	63.575	37.497	54.068	0.00	0.00
ATOM	1086	H	THR	X	71	62.671	37.229	53.706	0.00	0.00
ATOM	1087	CA	THR	X	71	64.346	36.428	54.767	0.00	0.00
ATOM	1088	HA	THR	X	71	65.261	36.878	55.151	0.00	0.00
ATOM	1089	CB	THR	X	71	63.541	35.926	55.998	0.00	0.00
ATOM	1090	HB	THR	X	71	64.219	35.196	56.439	0.00	0.00
ATOM	1091	CG2	THR	X	71	63.434	37.008	57.029	0.00	0.00
ATOM	1092	HG21	THR	X	71	62.955	37.887	56.597	0.00	0.00
ATOM	1093	HG22	THR	X	71	62.688	36.754	57.782	0.00	0.00
ATOM	1094	HG23	THR	X	71	64.426	37.147	57.458	0.00	0.00
ATOM	1095	OG1	THR	X	71	62.341	35.361	55.629	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.957	35.008	56.435	0.00	0.00
ATOM	1097	C	THR	X	71	64.681	35.213	53.897	0.00	0.00
ATOM	1098	O	THR	X	71	65.239	34.226	54.358	0.00	0.00
ATOM	1099	N	LEU	X	72	64.274	35.169	52.648	0.00	0.00
ATOM	1100	H	LEU	X	72	63.838	35.982	52.235	0.00	0.00
ATOM	1101	CA	LEU	X	72	64.170	33.934	51.876	0.00	0.00
ATOM	1102	HA	LEU	X	72	64.336	33.009	52.428	0.00	0.00
ATOM	1103	CB	LEU	X	72	62.737	33.855	51.313	0.00	0.00
ATOM	1104	HB2	LEU	X	72	61.968	33.907	52.084	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.645	34.658	50.582	0.00	0.00
ATOM	1106	CG	LEU	X	72	62.459	32.567	50.502	0.00	0.00
ATOM	1107	HG	LEU	X	72	63.055	32.613	49.590	0.00	0.00
ATOM	1108	CD1	LEU	X	72	62.674	31.291	51.282	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.159	30.468	50.788	0.00	0.00
ATOM	1110	HD12	LEU	X	72	63.707	30.946	51.235	0.00	0.00
ATOM	1111	HD13	LEU	X	72	62.308	31.406	52.303	0.00	0.00
ATOM	1112	CD2	LEU	X	72	61.049	32.817	49.928	0.00	0.00
ATOM	1113	HD21	LEU	X	72	60.968	33.721	49.324	0.00	0.00
ATOM	1114	HD22	LEU	X	72	60.846	31.955	49.293	0.00	0.00
ATOM	1115	HD23	LEU	X	72	60.330	32.902	50.743	0.00	0.00
ATOM	1116	C	LEU	X	72	65.211	33.742	50.766	0.00	0.00
ATOM	1117	O	LEU	X	72	65.872	32.722	50.707	0.00	0.00
ATOM	1118	N	TYR	X	73	65.445	34.742	49.876	0.00	0.00
ATOM	1119	H	TYR	X	73	64.920	35.598	49.986	0.00	0.00
ATOM	1120	CA	TYR	X	73	66.344	34.642	48.735	0.00	0.00
ATOM	1121	HA	TYR	X	73	67.006	33.851	49.086	0.00	0.00
ATOM	1122	CB	TYR	X	73	65.628	34.193	47.424	0.00	0.00
ATOM	1123	HB2	TYR	X	73	64.820	34.891	47.203	0.00	0.00
ATOM	1124	HB3	TYR	X	73	66.388	34.319	46.653	0.00	0.00

ATOM	1125	CG	TYR	X	73	65.044	32.822	47.280	0.00	0.00
ATOM	1126	CD1	TYR	X	73	65.887	31.695	47.330	0.00	0.00
ATOM	1127	HD1	TYR	X	73	66.963	31.747	47.256	0.00	0.00
ATOM	1128	CE1	TYR	X	73	65.390	30.383	47.424	0.00	0.00
ATOM	1129	HE1	TYR	X	73	66.130	29.610	47.565	0.00	0.00
ATOM	1130	CZ	TYR	X	73	63.989	30.221	47.312	0.00	0.00
ATOM	1131	OH	TYR	X	73	63.451	28.937	47.123	0.00	0.00
ATOM	1132	HH	TYR	X	73	62.508	29.117	47.110	0.00	0.00
ATOM	1133	CE2	TYR	X	73	63.160	31.325	47.101	0.00	0.00
ATOM	1134	HE2	TYR	X	73	62.085	31.302	47.001	0.00	0.00
ATOM	1135	CD2	TYR	X	73	63.690	32.601	47.056	0.00	0.00
ATOM	1136	HD2	TYR	X	73	63.085	33.484	46.915	0.00	0.00
ATOM	1137	C	TYR	X	73	67.068	35.971	48.590	0.00	0.00
ATOM	1138	O	TYR	X	73	66.596	36.878	47.924	0.00	0.00
ATOM	1139	N	PRO	X	74	68.247	36.154	49.264	0.00	0.00
ATOM	1140	CD	PRO	X	74	68.913	35.184	50.259	0.00	0.00
ATOM	1141	HD2	PRO	X	74	68.967	34.152	49.912	0.00	0.00
ATOM	1142	HD3	PRO	X	74	68.272	35.211	51.139	0.00	0.00
ATOM	1143	CG	PRO	X	74	70.276	35.800	50.496	0.00	0.00
ATOM	1144	HG2	PRO	X	74	71.029	35.400	49.816	0.00	0.00
ATOM	1145	HG3	PRO	X	74	70.575	35.699	51.539	0.00	0.00
ATOM	1146	CB	PRO	X	74	70.104	37.299	50.260	0.00	0.00
ATOM	1147	HB2	PRO	X	74	70.966	37.945	50.094	0.00	0.00
ATOM	1148	HB3	PRO	X	74	69.628	37.776	51.117	0.00	0.00
ATOM	1149	CA	PRO	X	74	68.981	37.372	49.238	0.00	0.00
ATOM	1150	HA	PRO	X	74	68.348	38.195	49.568	0.00	0.00
ATOM	1151	C	PRO	X	74	69.492	37.707	47.829	0.00	0.00
ATOM	1152	O	PRO	X	74	69.722	36.763	47.016	0.00	0.00
ATOM	1153	N	GLY	X	75	69.719	38.978	47.564	0.00	0.00
ATOM	1154	H	GLY	X	75	69.580	39.659	48.296	0.00	0.00
ATOM	1155	CA	GLY	X	75	70.168	39.486	46.256	0.00	0.00
ATOM	1156	HA2	GLY	X	75	70.297	40.521	46.615	0.00	0.00
ATOM	1157	HA3	GLY	X	75	71.185	39.035	45.961	0.00	0.00
ATOM	1158	C	GLY	X	75	69.057	39.484	45.190	0.00	0.00
ATOM	1159	O	GLY	X	75	68.953	40.445	44.480	0.00	0.00
ATOM	1160	N	PHE	X	76	68.293	38.406	45.108	0.00	0.00
ATOM	1161	H	PHE	X	76	68.376	37.821	45.928	0.00	0.00
ATOM	1162	CA	PHE	X	76	67.465	38.007	44.000	0.00	0.00
ATOM	1163	HA	PHE	X	76	68.049	38.236	43.109	0.00	0.00
ATOM	1164	CB	PHE	X	76	67.303	36.569	44.214	0.00	0.00
ATOM	1165	HB2	PHE	X	76	68.224	36.009	44.374	0.00	0.00
ATOM	1166	HB3	PHE	X	76	66.802	36.411	45.169	0.00	0.00
ATOM	1167	CG	PHE	X	76	66.519	35.807	43.174	0.00	0.00
ATOM	1168	CD1	PHE	X	76	67.066	35.734	41.851	0.00	0.00
ATOM	1169	HD1	PHE	X	76	68.026	36.197	41.676	0.00	0.00
ATOM	1170	CE1	PHE	X	76	66.341	35.102	40.844	0.00	0.00
ATOM	1171	HE1	PHE	X	76	66.767	35.012	39.855	0.00	0.00
ATOM	1172	CZ	PHE	X	76	65.046	34.558	41.147	0.00	0.00
ATOM	1173	HZ	PHE	X	76	64.437	34.094	40.385	0.00	0.00
ATOM	1174	CE2	PHE	X	76	64.497	34.693	42.419	0.00	0.00
ATOM	1175	HE2	PHE	X	76	63.528	34.256	42.612	0.00	0.00
ATOM	1176	CD2	PHE	X	76	65.255	35.218	43.440	0.00	0.00
ATOM	1177	HD2	PHE	X	76	64.854	35.265	44.441	0.00	0.00
ATOM	1178	C	PHE	X	76	66.184	38.784	43.905	0.00	0.00
ATOM	1179	O	PHE	X	76	65.504	39.200	44.881	0.00	0.00
ATOM	1180	N	GLU	X	77	65.817	38.837	42.638	0.00	0.00
ATOM	1181	H	GLU	X	77	66.492	38.509	41.962	0.00	0.00
ATOM	1182	CA	GLU	X	77	64.527	39.394	42.201	0.00	0.00
ATOM	1183	HA	GLU	X	77	64.511	40.460	42.426	0.00	0.00
ATOM	1184	CB	GLU	X	77	64.563	39.246	40.712	0.00	0.00
ATOM	1185	HB2	GLU	X	77	65.408	39.819	40.329	0.00	0.00
ATOM	1186	HB3	GLU	X	77	64.699	38.191	40.475	0.00	0.00
ATOM	1187	CG	GLU	X	77	63.227	39.601	40.097	0.00	0.00
ATOM	1188	HG2	GLU	X	77	62.552	38.746	40.127	0.00	0.00
ATOM	1189	HG3	GLU	X	77	62.816	40.460	40.627	0.00	0.00
ATOM	1190	CD	GLU	X	77	63.493	39.892	38.638	0.00	0.00
ATOM	1191	OE1	GLU	X	77	63.637	38.902	37.839	0.00	0.00
ATOM	1192	OE2	GLU	X	77	63.237	41.014	38.177	0.00	0.00
ATOM	1193	C	GLU	X	77	63.310	38.795	42.886	0.00	0.00
ATOM	1194	O	GLU	X	77	62.275	39.482	43.099	0.00	0.00

ATOM	1195	N	GLY	X	78	63.309	37.543	43.241	0.00	0.00
ATOM	1196	H	GLY	X	78	64.065	36.960	42.911	0.00	0.00
ATOM	1197	CA	GLY	X	78	62.092	36.696	43.519	0.00	0.00
ATOM	1198	HA2	GLY	X	78	61.448	36.693	42.612	0.00	0.00
ATOM	1199	HA3	GLY	X	78	62.393	35.681	43.730	0.00	0.00
ATOM	1200	C	GLY	X	78	61.258	37.217	44.719	0.00	0.00
ATOM	1201	O	GLY	X	78	60.050	37.095	44.777	0.00	0.00
ATOM	1202	N	THR	X	79	61.943	37.816	45.648	0.00	0.00
ATOM	1203	H	THR	X	79	62.949	37.730	45.672	0.00	0.00
ATOM	1204	CA	THR	X	79	61.369	38.582	46.765	0.00	0.00
ATOM	1205	HA	THR	X	79	60.286	38.497	46.852	0.00	0.00
ATOM	1206	CB	THR	X	79	61.931	38.069	48.090	0.00	0.00
ATOM	1207	HB	THR	X	79	61.701	38.761	48.901	0.00	0.00
ATOM	1208	CG2	THR	X	79	61.362	36.714	48.543	0.00	0.00
ATOM	1209	HG21	THR	X	79	61.671	36.497	49.566	0.00	0.00
ATOM	1210	HG22	THR	X	79	60.274	36.770	48.512	0.00	0.00
ATOM	1211	HG23	THR	X	79	61.725	35.884	47.936	0.00	0.00
ATOM	1212	OG1	THR	X	79	63.325	37.941	47.852	0.00	0.00
ATOM	1213	HG1	THR	X	79	63.683	37.699	48.709	0.00	0.00
ATOM	1214	C	THR	X	79	61.681	40.069	46.652	0.00	0.00
ATOM	1215	O	THR	X	79	60.940	40.897	47.289	0.00	0.00
ATOM	1216	N	GLU	X	80	62.640	40.552	45.882	0.00	0.00
ATOM	1217	H	GLU	X	80	63.234	39.918	45.366	0.00	0.00
ATOM	1218	CA	GLU	X	80	62.698	41.959	45.573	0.00	0.00
ATOM	1219	HA	GLU	X	80	62.604	42.464	46.535	0.00	0.00
ATOM	1220	CB	GLU	X	80	64.126	42.265	45.120	0.00	0.00
ATOM	1221	HB2	GLU	X	80	64.898	41.797	45.730	0.00	0.00
ATOM	1222	HB3	GLU	X	80	64.270	42.077	44.056	0.00	0.00
ATOM	1223	CG	GLU	X	80	64.651	43.767	45.166	0.00	0.00
ATOM	1224	HG2	GLU	X	80	64.035	44.482	44.621	0.00	0.00
ATOM	1225	HG3	GLU	X	80	64.644	44.115	46.199	0.00	0.00
ATOM	1226	CD	GLU	X	80	66.006	43.955	44.624	0.00	0.00
ATOM	1227	OE1	GLU	X	80	66.121	43.807	43.343	0.00	0.00
ATOM	1228	OE2	GLU	X	80	66.987	44.347	45.332	0.00	0.00
ATOM	1229	C	GLU	X	80	61.550	42.505	44.708	0.00	0.00
ATOM	1230	O	GLU	X	80	61.404	43.673	44.509	0.00	0.00
ATOM	1231	N	MET	X	81	60.643	41.666	44.225	0.00	0.00
ATOM	1232	H	MET	X	81	60.917	40.717	44.435	0.00	0.00
ATOM	1233	CA	MET	X	81	59.388	41.739	43.567	0.00	0.00
ATOM	1234	HA	MET	X	81	59.536	42.331	42.664	0.00	0.00
ATOM	1235	CB	MET	X	81	59.012	40.328	43.085	0.00	0.00
ATOM	1236	HB2	MET	X	81	59.834	39.641	42.883	0.00	0.00
ATOM	1237	HB3	MET	X	81	58.415	39.872	43.875	0.00	0.00
ATOM	1238	CG	MET	X	81	58.095	40.311	41.888	0.00	0.00
ATOM	1239	HG2	MET	X	81	57.051	40.555	42.088	0.00	0.00
ATOM	1240	HG3	MET	X	81	58.365	41.034	41.119	0.00	0.00
ATOM	1241	SD	MET	X	81	57.957	38.708	40.983	0.00	0.00
ATOM	1242	CE	MET	X	81	56.289	38.850	40.174	0.00	0.00
ATOM	1243	HE1	MET	X	81	56.455	38.965	39.103	0.00	0.00
ATOM	1244	HE2	MET	X	81	55.822	37.898	40.429	0.00	0.00
ATOM	1245	HE3	MET	X	81	55.732	39.681	40.606	0.00	0.00
ATOM	1246	C	MET	X	81	58.203	42.387	44.264	0.00	0.00
ATOM	1247	O	MET	X	81	57.411	43.109	43.656	0.00	0.00
ATOM	1248	N	TRP	X	82	58.233	42.196	45.580	0.00	0.00
ATOM	1249	H	TRP	X	82	58.981	41.632	45.958	0.00	0.00
ATOM	1250	CA	TRP	X	82	57.220	42.702	46.466	0.00	0.00
ATOM	1251	HA	TRP	X	82	56.639	43.422	45.889	0.00	0.00
ATOM	1252	CB	TRP	X	82	56.255	41.574	46.734	0.00	0.00
ATOM	1253	HB2	TRP	X	82	56.579	40.945	47.563	0.00	0.00
ATOM	1254	HB3	TRP	X	82	55.361	41.961	47.224	0.00	0.00
ATOM	1255	CG	TRP	X	82	55.817	40.669	45.695	0.00	0.00
ATOM	1256	CD1	TRP	X	82	56.065	39.327	45.784	0.00	0.00
ATOM	1257	HD1	TRP	X	82	56.668	38.862	46.549	0.00	0.00
ATOM	1258	NE1	TRP	X	82	55.455	38.662	44.793	0.00	0.00
ATOM	1259	HE1	TRP	X	82	55.507	37.655	44.721	0.00	0.00
ATOM	1260	CE2	TRP	X	82	54.703	39.539	43.998	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	53.813	39.391	42.883	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	53.572	38.357	42.683	0.00	0.00
ATOM	1263	CH2	TRP	X	82	53.288	40.481	42.268	0.00	0.00
ATOM	1264	HH2	TRP	X	82	52.526	40.288	41.528	0.00	0.00

ATOM	1265	CZ3	TRP	X	82	53.515	41.752	42.785	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	53.148	42.668	42.347	0.00	0.00
ATOM	1267	CE3	TRP	X	82	54.389	41.957	43.875	0.00	0.00
ATOM	1268	HE3	TRP	X	82	54.411	42.924	44.355	0.00	0.00
ATOM	1269	CD2	TRP	X	82	55.038	40.874	44.517	0.00	0.00
ATOM	1270	C	TRP	X	82	57.767	43.326	47.797	0.00	0.00
ATOM	1271	O	TRP	X	82	57.048	44.164	48.388	0.00	0.00
ATOM	1272	N	ASN	X	83	58.923	42.824	48.277	0.00	0.00
ATOM	1273	H	ASN	X	83	59.529	42.153	47.828	0.00	0.00
ATOM	1274	CA	ASN	X	83	59.424	43.377	49.550	0.00	0.00
ATOM	1275	HA	ASN	X	83	58.495	43.450	50.117	0.00	0.00
ATOM	1276	CB	ASN	X	83	60.408	42.391	50.208	0.00	0.00
ATOM	1277	HB2	ASN	X	83	60.107	42.221	51.241	0.00	0.00
ATOM	1278	HB3	ASN	X	83	60.385	41.469	49.627	0.00	0.00
ATOM	1279	CG	ASN	X	83	61.855	42.768	50.265	0.00	0.00
ATOM	1280	OD1	ASN	X	83	62.255	43.449	51.190	0.00	0.00
ATOM	1281	ND2	ASN	X	83	62.719	42.518	49.253	0.00	0.00
ATOM	1282	HD21	ASN	X	83	63.605	42.971	49.425	0.00	0.00
ATOM	1283	HD22	ASN	X	83	62.359	41.935	48.511	0.00	0.00
ATOM	1284	C	ASN	X	83	59.992	44.772	49.340	0.00	0.00
ATOM	1285	O	ASN	X	83	60.501	45.054	48.176	0.00	0.00
ATOM	1286	N	PRO	X	84	60.060	45.668	50.378	0.00	0.00
ATOM	1287	CD	PRO	X	84	59.645	45.424	51.751	0.00	0.00
ATOM	1288	HD2	PRO	X	84	60.346	44.764	52.260	0.00	0.00
ATOM	1289	HD3	PRO	X	84	58.627	45.038	51.693	0.00	0.00
ATOM	1290	CG	PRO	X	84	59.692	46.768	52.462	0.00	0.00
ATOM	1291	HG2	PRO	X	84	60.604	46.743	53.059	0.00	0.00
ATOM	1292	HG3	PRO	X	84	58.921	46.928	53.215	0.00	0.00
ATOM	1293	CB	PRO	X	84	59.699	47.866	51.421	0.00	0.00
ATOM	1294	HB2	PRO	X	84	60.222	48.771	51.732	0.00	0.00
ATOM	1295	HB3	PRO	X	84	58.653	48.151	51.309	0.00	0.00
ATOM	1296	CA	PRO	X	84	60.251	47.128	50.212	0.00	0.00
ATOM	1297	HA	PRO	X	84	59.748	47.464	49.305	0.00	0.00
ATOM	1298	C	PRO	X	84	61.687	47.497	49.991	0.00	0.00
ATOM	1299	O	PRO	X	84	62.587	47.050	50.668	0.00	0.00
ATOM	1300	N	ASN	X	85	61.884	48.386	49.020	0.00	0.00
ATOM	1301	H	ASN	X	85	61.063	48.771	48.574	0.00	0.00
ATOM	1302	CA	ASN	X	85	63.194	49.069	48.761	0.00	0.00
ATOM	1303	HA	ASN	X	85	63.992	48.497	49.233	0.00	0.00
ATOM	1304	CB	ASN	X	85	63.539	49.198	47.229	0.00	0.00
ATOM	1305	HB2	ASN	X	85	64.531	49.643	47.164	0.00	0.00
ATOM	1306	HB3	ASN	X	85	63.572	48.150	46.935	0.00	0.00
ATOM	1307	CG	ASN	X	85	62.482	50.006	46.396	0.00	0.00
ATOM	1308	OD1	ASN	X	85	61.361	50.071	46.881	0.00	0.00
ATOM	1309	ND2	ASN	X	85	62.802	50.679	45.240	0.00	0.00
ATOM	1310	HD21	ASN	X	85	62.167	51.171	44.627	0.00	0.00
ATOM	1311	HD22	ASN	X	85	63.757	50.669	44.912	0.00	0.00
ATOM	1312	C	ASN	X	85	63.340	50.408	49.513	0.00	0.00
ATOM	1313	O	ASN	X	85	64.428	50.969	49.603	0.00	0.00
ATOM	1314	N	ARG	X	86	62.203	50.931	50.081	0.00	0.00
ATOM	1315	H	ARG	X	86	61.340	50.433	49.915	0.00	0.00
ATOM	1316	CA	ARG	X	86	62.133	52.194	50.772	0.00	0.00
ATOM	1317	HA	ARG	X	86	63.047	52.769	50.623	0.00	0.00
ATOM	1318	CB	ARG	X	86	60.961	53.063	50.161	0.00	0.00
ATOM	1319	HB2	ARG	X	86	60.018	52.556	50.363	0.00	0.00
ATOM	1320	HB3	ARG	X	86	60.931	54.032	50.659	0.00	0.00
ATOM	1321	CG	ARG	X	86	61.113	53.406	48.655	0.00	0.00
ATOM	1322	HG2	ARG	X	86	61.140	52.509	48.037	0.00	0.00
ATOM	1323	HG3	ARG	X	86	60.138	53.891	48.605	0.00	0.00
ATOM	1324	CD	ARG	X	86	62.211	54.434	48.308	0.00	0.00
ATOM	1325	HD2	ARG	X	86	61.871	54.878	47.373	0.00	0.00
ATOM	1326	HD3	ARG	X	86	62.176	55.236	49.046	0.00	0.00
ATOM	1327	NE	ARG	X	86	63.576	53.944	48.321	0.00	0.00
ATOM	1328	HE	ARG	X	86	63.997	53.931	49.239	0.00	0.00
ATOM	1329	CZ	ARG	X	86	64.327	53.494	47.323	0.00	0.00
ATOM	1330	NH1	ARG	X	86	64.040	53.489	46.073	0.00	0.00
ATOM	1331	HH11	ARG	X	86	63.182	53.892	45.724	0.00	0.00
ATOM	1332	HH12	ARG	X	86	64.594	52.936	45.435	0.00	0.00
ATOM	1333	NH2	ARG	X	86	65.434	52.980	47.767	0.00	0.00
ATOM	1334	HH21	ARG	X	86	65.574	52.770	48.745	0.00	0.00

ATOM	1335	HH22	ARG	X	86	66.113	52.691	47.078	0.00	0.00
ATOM	1336	C	ARG	X	86	61.837	51.975	52.285	0.00	0.00
ATOM	1337	O	ARG	X	86	61.558	50.909	52.772	0.00	0.00
ATOM	1338	N	GLU	X	87	62.071	53.047	53.055	0.00	0.00
ATOM	1339	H	GLU	X	87	62.189	53.956	52.632	0.00	0.00
ATOM	1340	CA	GLU	X	87	62.208	53.067	54.499	0.00	0.00
ATOM	1341	HA	GLU	X	87	62.844	52.301	54.943	0.00	0.00
ATOM	1342	CB	GLU	X	87	62.833	54.407	54.995	0.00	0.00
ATOM	1343	HB2	GLU	X	87	63.873	54.378	54.670	0.00	0.00
ATOM	1344	HB3	GLU	X	87	62.253	55.223	54.563	0.00	0.00
ATOM	1345	CG	GLU	X	87	62.719	54.735	56.472	0.00	0.00
ATOM	1346	HG2	GLU	X	87	61.708	54.867	56.859	0.00	0.00
ATOM	1347	HG3	GLU	X	87	63.139	53.885	57.009	0.00	0.00
ATOM	1348	CD	GLU	X	87	63.374	56.090	56.817	0.00	0.00
ATOM	1349	OE1	GLU	X	87	62.969	57.072	56.206	0.00	0.00
ATOM	1350	OE2	GLU	X	87	64.014	56.137	57.865	0.00	0.00
ATOM	1351	C	GLU	X	87	60.804	52.825	55.153	0.00	0.00
ATOM	1352	O	GLU	X	87	59.790	53.376	54.730	0.00	0.00
ATOM	1353	N	LEU	X	88	60.826	51.896	56.160	0.00	0.00
ATOM	1354	H	LEU	X	88	61.681	51.505	56.529	0.00	0.00
ATOM	1355	CA	LEU	X	88	59.616	51.618	56.969	0.00	0.00
ATOM	1356	HA	LEU	X	88	58.789	51.471	56.276	0.00	0.00
ATOM	1357	CB	LEU	X	88	59.800	50.259	57.686	0.00	0.00
ATOM	1358	HB2	LEU	X	88	60.172	50.522	58.676	0.00	0.00
ATOM	1359	HB3	LEU	X	88	58.804	49.884	57.923	0.00	0.00
ATOM	1360	CG	LEU	X	88	60.657	49.097	57.115	0.00	0.00
ATOM	1361	HG	LEU	X	88	61.662	49.510	57.020	0.00	0.00
ATOM	1362	CD1	LEU	X	88	60.589	47.883	58.150	0.00	0.00
ATOM	1363	HD11	LEU	X	88	59.645	47.344	58.232	0.00	0.00
ATOM	1364	HD12	LEU	X	88	61.340	47.176	57.797	0.00	0.00
ATOM	1365	HD13	LEU	X	88	60.910	48.200	59.142	0.00	0.00
ATOM	1366	CD2	LEU	X	88	60.121	48.633	55.764	0.00	0.00
ATOM	1367	HD21	LEU	X	88	59.040	48.769	55.714	0.00	0.00
ATOM	1368	HD22	LEU	X	88	60.543	49.184	54.924	0.00	0.00
ATOM	1369	HD23	LEU	X	88	60.338	47.575	55.616	0.00	0.00
ATOM	1370	C	LEU	X	88	59.214	52.769	57.833	0.00	0.00
ATOM	1371	O	LEU	X	88	60.069	53.444	58.384	0.00	0.00
ATOM	1372	N	SER	X	89	57.850	53.005	58.007	0.00	0.00
ATOM	1373	H	SER	X	89	57.276	52.448	57.390	0.00	0.00
ATOM	1374	CA	SER	X	89	57.190	54.048	58.808	0.00	0.00
ATOM	1375	HA	SER	X	89	57.617	54.091	59.810	0.00	0.00
ATOM	1376	CB	SER	X	89	57.220	55.333	58.045	0.00	0.00
ATOM	1377	HB2	SER	X	89	58.149	55.473	57.491	0.00	0.00
ATOM	1378	HB3	SER	X	89	56.402	55.524	57.352	0.00	0.00
ATOM	1379	OG	SER	X	89	57.014	56.382	59.092	0.00	0.00
ATOM	1380	HG	SER	X	89	57.135	57.243	58.684	0.00	0.00
ATOM	1381	C	SER	X	89	55.668	53.691	58.946	0.00	0.00
ATOM	1382	O	SER	X	89	55.144	52.894	58.150	0.00	0.00
ATOM	1383	N	GLU	X	90	55.021	54.210	59.976	0.00	0.00
ATOM	1384	H	GLU	X	90	55.407	54.783	60.713	0.00	0.00
ATOM	1385	CA	GLU	X	90	53.555	54.389	59.940	0.00	0.00
ATOM	1386	HA	GLU	X	90	53.050	53.673	59.292	0.00	0.00
ATOM	1387	CB	GLU	X	90	53.062	54.247	61.406	0.00	0.00
ATOM	1388	HB2	GLU	X	90	53.653	54.904	62.045	0.00	0.00
ATOM	1389	HB3	GLU	X	90	51.989	54.439	61.396	0.00	0.00
ATOM	1390	CG	GLU	X	90	53.269	52.781	61.925	0.00	0.00
ATOM	1391	HG2	GLU	X	90	53.101	52.069	61.117	0.00	0.00
ATOM	1392	HG3	GLU	X	90	54.321	52.646	62.175	0.00	0.00
ATOM	1393	CD	GLU	X	90	52.361	52.504	63.132	0.00	0.00
ATOM	1394	OE1	GLU	X	90	51.083	52.331	62.938	0.00	0.00
ATOM	1395	OE2	GLU	X	90	52.887	52.518	64.234	0.00	0.00
ATOM	1396	C	GLU	X	90	53.204	55.856	59.391	0.00	0.00
ATOM	1397	O	GLU	X	90	52.667	56.713	60.027	0.00	0.00
ATOM	1398	N	ASP	X	91	53.508	55.994	58.119	0.00	0.00
ATOM	1399	H	ASP	X	91	54.104	55.249	57.788	0.00	0.00
ATOM	1400	CA	ASP	X	91	53.473	57.102	57.199	0.00	0.00
ATOM	1401	HA	ASP	X	91	52.425	57.395	57.143	0.00	0.00
ATOM	1402	CB	ASP	X	91	54.251	58.350	57.728	0.00	0.00
ATOM	1403	HB2	ASP	X	91	53.789	58.656	58.667	0.00	0.00
ATOM	1404	HB3	ASP	X	91	55.282	58.092	57.974	0.00	0.00

ATOM	1405	CG	ASP	X	91	54.169	59.571	56.704	0.00	0.00
ATOM	1406	OD1	ASP	X	91	55.144	59.748	56.000	0.00	0.00
ATOM	1407	OD2	ASP	X	91	53.091	60.153	56.547	0.00	0.00
ATOM	1408	C	ASP	X	91	53.877	56.749	55.751	0.00	0.00
ATOM	1409	O	ASP	X	91	55.011	56.543	55.365	0.00	0.00
ATOM	1410	N	CYX	X	92	52.837	56.645	54.929	0.00	0.00
ATOM	1411	H	CYX	X	92	51.961	57.058	55.218	0.00	0.00
ATOM	1412	CA	CYX	X	92	52.970	55.841	53.684	0.00	0.00
ATOM	1413	HA	CYX	X	92	53.877	56.215	53.210	0.00	0.00
ATOM	1414	CB	CYX	X	92	53.028	54.310	53.947	0.00	0.00
ATOM	1415	HB2	CYX	X	92	53.345	53.809	53.033	0.00	0.00
ATOM	1416	HB3	CYX	X	92	53.832	54.156	54.667	0.00	0.00
ATOM	1417	SG	CYX	X	92	51.662	53.557	54.722	0.00	0.00
ATOM	1418	C	CYX	X	92	51.849	56.179	52.691	0.00	0.00
ATOM	1419	O	CYX	X	92	51.776	55.564	51.570	0.00	0.00
ATOM	1420	N	LEU	X	93	50.862	57.071	53.099	0.00	0.00
ATOM	1421	H	LEU	X	93	50.903	57.509	54.008	0.00	0.00
ATOM	1422	CA	LEU	X	93	49.762	57.442	52.310	0.00	0.00
ATOM	1423	HA	LEU	X	93	49.552	56.599	51.651	0.00	0.00
ATOM	1424	CB	LEU	X	93	48.427	57.485	53.161	0.00	0.00
ATOM	1425	HB2	LEU	X	93	48.301	58.414	53.718	0.00	0.00
ATOM	1426	HB3	LEU	X	93	47.652	57.548	52.397	0.00	0.00
ATOM	1427	CG	LEU	X	93	48.133	56.273	54.212	0.00	0.00
ATOM	1428	HG	LEU	X	93	49.016	56.122	54.833	0.00	0.00
ATOM	1429	CD1	LEU	X	93	46.908	56.453	55.107	0.00	0.00
ATOM	1430	HD11	LEU	X	93	46.037	56.691	54.497	0.00	0.00
ATOM	1431	HD12	LEU	X	93	46.641	55.499	55.562	0.00	0.00
ATOM	1432	HD13	LEU	X	93	46.993	57.136	55.953	0.00	0.00
ATOM	1433	CD2	LEU	X	93	48.103	54.914	53.599	0.00	0.00
ATOM	1434	HD21	LEU	X	93	47.318	54.740	52.862	0.00	0.00
ATOM	1435	HD22	LEU	X	93	49.107	54.629	53.286	0.00	0.00
ATOM	1436	HD23	LEU	X	93	48.039	54.189	54.410	0.00	0.00
ATOM	1437	C	LEU	X	93	49.971	58.658	51.369	0.00	0.00
ATOM	1438	O	LEU	X	93	49.498	59.725	51.668	0.00	0.00
ATOM	1439	N	TYR	X	94	50.624	58.371	50.224	0.00	0.00
ATOM	1440	H	TYR	X	94	51.039	57.463	50.070	0.00	0.00
ATOM	1441	CA	TYR	X	94	50.967	59.346	49.282	0.00	0.00
ATOM	1442	HA	TYR	X	94	50.179	60.097	49.242	0.00	0.00
ATOM	1443	CB	TYR	X	94	52.306	60.059	49.575	0.00	0.00
ATOM	1444	HB2	TYR	X	94	53.090	59.343	49.328	0.00	0.00
ATOM	1445	HB3	TYR	X	94	52.483	60.912	48.919	0.00	0.00
ATOM	1446	CG	TYR	X	94	52.731	60.558	50.954	0.00	0.00
ATOM	1447	CD1	TYR	X	94	52.645	61.921	51.250	0.00	0.00
ATOM	1448	HD1	TYR	X	94	52.478	62.626	50.450	0.00	0.00
ATOM	1449	CE1	TYR	X	94	52.923	62.415	52.557	0.00	0.00
ATOM	1450	HE1	TYR	X	94	52.770	63.472	52.718	0.00	0.00
ATOM	1451	CZ	TYR	X	94	53.353	61.484	53.541	0.00	0.00
ATOM	1452	OH	TYR	X	94	53.775	61.937	54.713	0.00	0.00
ATOM	1453	HH	TYR	X	94	54.093	61.256	55.310	0.00	0.00
ATOM	1454	CE2	TYR	X	94	53.435	60.141	53.229	0.00	0.00
ATOM	1455	HE2	TYR	X	94	53.853	59.437	53.933	0.00	0.00
ATOM	1456	CD2	TYR	X	94	53.094	59.650	51.967	0.00	0.00
ATOM	1457	HD2	TYR	X	94	53.072	58.586	51.779	0.00	0.00
ATOM	1458	C	TYR	X	94	50.982	58.722	47.865	0.00	0.00
ATOM	1459	O	TYR	X	94	51.254	57.508	47.686	0.00	0.00
ATOM	1460	N	LEU	X	95	50.621	59.520	46.861	0.00	0.00
ATOM	1461	H	LEU	X	95	50.449	60.511	46.954	0.00	0.00
ATOM	1462	CA	LEU	X	95	50.534	58.981	45.502	0.00	0.00
ATOM	1463	HA	LEU	X	95	50.839	57.935	45.484	0.00	0.00
ATOM	1464	CB	LEU	X	95	49.102	58.991	44.987	0.00	0.00
ATOM	1465	HB2	LEU	X	95	49.066	58.436	44.050	0.00	0.00
ATOM	1466	HB3	LEU	X	95	48.617	58.485	45.821	0.00	0.00
ATOM	1467	CG	LEU	X	95	48.345	60.328	44.762	0.00	0.00
ATOM	1468	HG	LEU	X	95	48.378	61.020	45.604	0.00	0.00
ATOM	1469	CD1	LEU	X	95	48.668	61.060	43.419	0.00	0.00
ATOM	1470	HD11	LEU	X	95	49.445	61.815	43.537	0.00	0.00
ATOM	1471	HD12	LEU	X	95	48.895	60.360	42.616	0.00	0.00
ATOM	1472	HD13	LEU	X	95	47.813	61.673	43.130	0.00	0.00
ATOM	1473	CD2	LEU	X	95	46.878	59.942	44.708	0.00	0.00
ATOM	1474	HD21	LEU	X	95	46.239	60.805	44.522	0.00	0.00

ATOM	1475	HD22	LEU	X	95	46.705	59.246	43.886	0.00	0.00
ATOM	1476	HD23	LEU	X	95	46.542	59.356	45.563	0.00	0.00
ATOM	1477	C	LEU	X	95	51.424	59.756	44.564	0.00	0.00
ATOM	1478	O	LEU	X	95	51.774	60.915	44.786	0.00	0.00
ATOM	1479	N	ASN	X	96	51.808	59.135	43.432	0.00	0.00
ATOM	1480	H	ASN	X	96	51.371	58.252	43.210	0.00	0.00
ATOM	1481	CA	ASN	X	96	52.811	59.596	42.458	0.00	0.00
ATOM	1482	HA	ASN	X	96	53.283	60.443	42.956	0.00	0.00
ATOM	1483	CB	ASN	X	96	53.857	58.507	42.262	0.00	0.00
ATOM	1484	HB2	ASN	X	96	53.356	57.657	41.798	0.00	0.00
ATOM	1485	HB3	ASN	X	96	54.623	58.867	41.575	0.00	0.00
ATOM	1486	CG	ASN	X	96	54.550	58.070	43.587	0.00	0.00
ATOM	1487	OD1	ASN	X	96	55.161	58.860	44.200	0.00	0.00
ATOM	1488	ND2	ASN	X	96	54.375	56.909	44.107	0.00	0.00
ATOM	1489	HD21	ASN	X	96	54.777	56.673	45.003	0.00	0.00
ATOM	1490	HD22	ASN	X	96	53.778	56.275	43.595	0.00	0.00
ATOM	1491	C	ASN	X	96	52.119	59.810	41.136	0.00	0.00
ATOM	1492	O	ASN	X	96	51.279	58.962	40.758	0.00	0.00
ATOM	1493	N	VAL	X	97	52.467	60.824	40.308	0.00	0.00
ATOM	1494	H	VAL	X	97	52.935	61.623	40.711	0.00	0.00
ATOM	1495	CA	VAL	X	97	51.911	61.075	38.966	0.00	0.00
ATOM	1496	HA	VAL	X	97	51.406	60.134	38.745	0.00	0.00
ATOM	1497	CB	VAL	X	97	50.839	62.187	38.975	0.00	0.00
ATOM	1498	HB	VAL	X	97	51.388	63.126	39.048	0.00	0.00
ATOM	1499	CG1	VAL	X	97	49.989	62.130	37.668	0.00	0.00
ATOM	1500	HG11	VAL	X	97	49.223	62.890	37.821	0.00	0.00
ATOM	1501	HG12	VAL	X	97	50.676	62.456	36.886	0.00	0.00
ATOM	1502	HG13	VAL	X	97	49.603	61.147	37.396	0.00	0.00
ATOM	1503	CG2	VAL	X	97	49.935	61.999	40.199	0.00	0.00
ATOM	1504	HG21	VAL	X	97	49.182	62.785	40.152	0.00	0.00
ATOM	1505	HG22	VAL	X	97	49.438	61.033	40.116	0.00	0.00
ATOM	1506	HG23	VAL	X	97	50.461	62.072	41.151	0.00	0.00
ATOM	1507	C	VAL	X	97	53.020	61.401	38.018	0.00	0.00
ATOM	1508	O	VAL	X	97	53.885	62.265	38.286	0.00	0.00
ATOM	1509	N	TRP	X	98	52.794	60.954	36.787	0.00	0.00
ATOM	1510	H	TRP	X	98	52.001	60.332	36.713	0.00	0.00
ATOM	1511	CA	TRP	X	98	53.609	61.182	35.540	0.00	0.00
ATOM	1512	HA	TRP	X	98	54.441	61.832	35.809	0.00	0.00
ATOM	1513	CB	TRP	X	98	54.232	59.845	35.024	0.00	0.00
ATOM	1514	HB2	TRP	X	98	53.492	59.064	34.851	0.00	0.00
ATOM	1515	HB3	TRP	X	98	54.749	60.074	34.092	0.00	0.00
ATOM	1516	CG	TRP	X	98	55.366	59.330	35.840	0.00	0.00
ATOM	1517	CD1	TRP	X	98	56.638	59.205	35.355	0.00	0.00
ATOM	1518	HD1	TRP	X	98	56.990	59.688	34.455	0.00	0.00
ATOM	1519	NE1	TRP	X	98	57.480	58.702	36.338	0.00	0.00
ATOM	1520	HE1	TRP	X	98	58.487	58.710	36.258	0.00	0.00
ATOM	1521	CE2	TRP	X	98	56.816	58.160	37.358	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	57.153	57.446	38.523	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	58.158	57.306	38.894	0.00	0.00
ATOM	1524	CH2	TRP	X	98	56.132	57.015	39.440	0.00	0.00
ATOM	1525	HH2	TRP	X	98	56.376	56.413	40.303	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	54.796	57.215	39.102	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	54.015	56.878	39.766	0.00	0.00
ATOM	1528	CE3	TRP	X	98	54.424	58.017	37.992	0.00	0.00
ATOM	1529	HE3	TRP	X	98	53.411	58.339	37.805	0.00	0.00
ATOM	1530	CD2	TRP	X	98	55.430	58.495	37.050	0.00	0.00
ATOM	1531	C	TRP	X	98	52.818	61.904	34.395	0.00	0.00
ATOM	1532	O	TRP	X	98	51.618	61.556	34.218	0.00	0.00
ATOM	1533	N	THR	X	99	53.377	62.867	33.644	0.00	0.00
ATOM	1534	H	THR	X	99	54.256	63.188	34.024	0.00	0.00
ATOM	1535	CA	THR	X	99	52.878	63.650	32.531	0.00	0.00
ATOM	1536	HA	THR	X	99	52.234	62.962	31.983	0.00	0.00
ATOM	1537	CB	THR	X	99	51.896	64.733	33.096	0.00	0.00
ATOM	1538	HB	THR	X	99	51.090	64.176	33.573	0.00	0.00
ATOM	1539	CG2	THR	X	99	52.580	65.589	34.204	0.00	0.00
ATOM	1540	HG21	THR	X	99	53.621	65.901	34.129	0.00	0.00
ATOM	1541	HG22	THR	X	99	52.199	66.610	34.242	0.00	0.00
ATOM	1542	HG23	THR	X	99	52.444	65.009	35.116	0.00	0.00
ATOM	1543	OG1	THR	X	99	51.341	65.523	32.026	0.00	0.00
ATOM	1544	HG1	THR	X	99	50.777	66.087	32.560	0.00	0.00

ATOM	1545	C	THR	X	99	53.933	64.231	31.628	0.00	0.00
ATOM	1546	O	THR	X	99	55.010	64.550	32.135	0.00	0.00
ATOM	1547	N	PRO	X	100	53.783	64.334	30.260	0.00	0.00
ATOM	1548	CD	PRO	X	100	52.527	64.154	29.585	0.00	0.00
ATOM	1549	HD2	PRO	X	100	52.008	65.085	29.812	0.00	0.00
ATOM	1550	HD3	PRO	X	100	52.004	63.304	30.026	0.00	0.00
ATOM	1551	CG	PRO	X	100	52.915	63.895	28.122	0.00	0.00
ATOM	1552	HG2	PRO	X	100	52.073	64.189	27.496	0.00	0.00
ATOM	1553	HG3	PRO	X	100	53.152	62.844	27.954	0.00	0.00
ATOM	1554	CB	PRO	X	100	54.209	64.702	27.997	0.00	0.00
ATOM	1555	HB2	PRO	X	100	54.109	65.710	27.594	0.00	0.00
ATOM	1556	HB3	PRO	X	100	55.051	64.270	27.457	0.00	0.00
ATOM	1557	CA	PRO	X	100	54.798	64.761	29.336	0.00	0.00
ATOM	1558	HA	PRO	X	100	55.692	64.139	29.380	0.00	0.00
ATOM	1559	C	PRO	X	100	55.233	66.219	29.665	0.00	0.00
ATOM	1560	O	PRO	X	100	54.359	67.091	29.770	0.00	0.00
ATOM	1561	N	TYR	X	101	56.580	66.452	29.617	0.00	0.00
ATOM	1562	H	TYR	X	101	57.113	65.715	29.176	0.00	0.00
ATOM	1563	CA	TYR	X	101	57.261	67.749	29.619	0.00	0.00
ATOM	1564	HA	TYR	X	101	56.510	68.431	30.018	0.00	0.00
ATOM	1565	CB	TYR	X	101	58.453	67.637	30.582	0.00	0.00
ATOM	1566	HB2	TYR	X	101	58.034	67.438	31.569	0.00	0.00
ATOM	1567	HB3	TYR	X	101	59.078	66.853	30.155	0.00	0.00
ATOM	1568	CG	TYR	X	101	59.358	68.877	30.598	0.00	0.00
ATOM	1569	CD1	TYR	X	101	60.528	68.959	29.800	0.00	0.00
ATOM	1570	HD1	TYR	X	101	60.647	68.172	29.070	0.00	0.00
ATOM	1571	CE1	TYR	X	101	61.472	70.028	29.995	0.00	0.00
ATOM	1572	HE1	TYR	X	101	62.336	70.090	29.350	0.00	0.00
ATOM	1573	CZ	TYR	X	101	61.310	70.968	31.078	0.00	0.00
ATOM	1574	OH	TYR	X	101	62.304	71.907	31.347	0.00	0.00
ATOM	1575	HH	TYR	X	101	62.975	71.823	30.665	0.00	0.00
ATOM	1576	CE2	TYR	X	101	60.163	70.839	31.923	0.00	0.00
ATOM	1577	HE2	TYR	X	101	59.971	71.505	32.751	0.00	0.00
ATOM	1578	CD2	TYR	X	101	59.203	69.797	31.679	0.00	0.00
ATOM	1579	HD2	TYR	X	101	58.385	69.661	32.372	0.00	0.00
ATOM	1580	C	TYR	X	101	57.638	68.228	28.230	0.00	0.00
ATOM	1581	O	TYR	X	101	58.277	67.443	27.527	0.00	0.00
ATOM	1582	N	PRO	X	102	57.375	69.471	27.795	0.00	0.00
ATOM	1583	CD	PRO	X	102	57.867	70.107	26.654	0.00	0.00
ATOM	1584	HD2	PRO	X	102	57.958	69.385	25.842	0.00	0.00
ATOM	1585	HD3	PRO	X	102	58.882	70.468	26.823	0.00	0.00
ATOM	1586	CG	PRO	X	102	56.956	71.300	26.219	0.00	0.00
ATOM	1587	HG2	PRO	X	102	56.069	70.835	25.790	0.00	0.00
ATOM	1588	HG3	PRO	X	102	57.480	72.071	25.654	0.00	0.00
ATOM	1589	CB	PRO	X	102	56.545	71.751	27.598	0.00	0.00
ATOM	1590	HB2	PRO	X	102	55.543	72.176	27.539	0.00	0.00
ATOM	1591	HB3	PRO	X	102	57.277	72.423	28.045	0.00	0.00
ATOM	1592	CA	PRO	X	102	56.411	70.404	28.336	0.00	0.00
ATOM	1593	HA	PRO	X	102	56.715	70.637	29.356	0.00	0.00
ATOM	1594	C	PRO	X	102	55.044	69.793	28.142	0.00	0.00
ATOM	1595	O	PRO	X	102	54.842	68.929	27.308	0.00	0.00
ATOM	1596	N	ARG	X	103	54.092	70.342	28.904	0.00	0.00
ATOM	1597	H	ARG	X	103	54.479	71.040	29.522	0.00	0.00
ATOM	1598	CA	ARG	X	103	52.710	70.015	28.872	0.00	0.00
ATOM	1599	HA	ARG	X	103	52.602	68.958	29.113	0.00	0.00
ATOM	1600	CB	ARG	X	103	51.987	70.687	30.062	0.00	0.00
ATOM	1601	HB2	ARG	X	103	52.687	70.744	30.895	0.00	0.00
ATOM	1602	HB3	ARG	X	103	51.804	71.733	29.815	0.00	0.00
ATOM	1603	CG	ARG	X	103	50.749	69.975	30.634	0.00	0.00
ATOM	1604	HG2	ARG	X	103	50.279	70.636	31.362	0.00	0.00
ATOM	1605	HG3	ARG	X	103	50.122	69.766	29.768	0.00	0.00
ATOM	1606	CD	ARG	X	103	51.066	68.616	31.256	0.00	0.00
ATOM	1607	HD2	ARG	X	103	50.079	68.182	31.416	0.00	0.00
ATOM	1608	HD3	ARG	X	103	51.637	67.937	30.622	0.00	0.00
ATOM	1609	NE	ARG	X	103	51.711	68.928	32.558	0.00	0.00
ATOM	1610	HE	ARG	X	103	51.130	69.411	33.228	0.00	0.00
ATOM	1611	CZ	ARG	X	103	52.949	68.734	32.971	0.00	0.00
ATOM	1612	NH1	ARG	X	103	53.834	68.036	32.301	0.00	0.00
ATOM	1613	HH11	ARG	X	103	53.503	67.644	31.430	0.00	0.00
ATOM	1614	HH12	ARG	X	103	54.835	68.133	32.392	0.00	0.00

ATOM	1615	NH2	ARG	X	103	53.334	69.323	34.076	0.00	0.00
ATOM	1616	HH21	ARG	X	103	52.697	69.968	34.520	0.00	0.00
ATOM	1617	HH22	ARG	X	103	54.298	69.323	34.381	0.00	0.00
ATOM	1618	C	ARG	X	103	52.028	70.298	27.490	0.00	0.00
ATOM	1619	O	ARG	X	103	51.905	71.508	27.203	0.00	0.00
ATOM	1620	N	PRO	X	104	51.402	69.295	26.837	0.00	0.00
ATOM	1621	CD	PRO	X	104	51.491	67.848	27.092	0.00	0.00
ATOM	1622	HD2	PRO	X	104	51.523	67.626	28.159	0.00	0.00
ATOM	1623	HD3	PRO	X	104	52.339	67.500	26.502	0.00	0.00
ATOM	1624	CG	PRO	X	104	50.221	67.257	26.538	0.00	0.00
ATOM	1625	HG2	PRO	X	104	49.411	67.280	27.268	0.00	0.00
ATOM	1626	HG3	PRO	X	104	50.346	66.184	26.390	0.00	0.00
ATOM	1627	CB	PRO	X	104	49.845	68.067	25.360	0.00	0.00
ATOM	1628	HB2	PRO	X	104	48.759	68.162	25.335	0.00	0.00
ATOM	1629	HB3	PRO	X	104	50.253	67.747	24.401	0.00	0.00
ATOM	1630	CA	PRO	X	104	50.419	69.474	25.796	0.00	0.00
ATOM	1631	HA	PRO	X	104	50.862	69.918	24.904	0.00	0.00
ATOM	1632	C	PRO	X	104	49.306	70.519	26.116	0.00	0.00
ATOM	1633	O	PRO	X	104	49.157	70.863	27.271	0.00	0.00
ATOM	1634	N	THR	X	105	48.659	71.077	25.085	0.00	0.00
ATOM	1635	H	THR	X	105	48.996	70.739	24.195	0.00	0.00
ATOM	1636	CA	THR	X	105	47.421	71.864	25.139	0.00	0.00
ATOM	1637	HA	THR	X	105	47.444	72.649	25.894	0.00	0.00
ATOM	1638	CB	THR	X	105	47.340	72.718	23.806	0.00	0.00
ATOM	1639	HB	THR	X	105	46.464	73.357	23.694	0.00	0.00
ATOM	1640	CG2	THR	X	105	48.588	73.634	23.717	0.00	0.00
ATOM	1641	HG21	THR	X	105	48.689	74.152	24.671	0.00	0.00
ATOM	1642	HG22	THR	X	105	49.480	73.034	23.541	0.00	0.00
ATOM	1643	HG23	THR	X	105	48.475	74.221	22.806	0.00	0.00
ATOM	1644	OG1	THR	X	105	47.369	71.939	22.693	0.00	0.00
ATOM	1645	HG1	THR	X	105	47.242	72.507	21.929	0.00	0.00
ATOM	1646	C	THR	X	105	46.130	71.045	25.335	0.00	0.00
ATOM	1647	O	THR	X	105	45.042	71.620	25.662	0.00	0.00
ATOM	1648	N	SER	X	106	46.100	69.710	25.071	0.00	0.00
ATOM	1649	H	SER	X	106	46.975	69.317	24.756	0.00	0.00
ATOM	1650	CA	SER	X	106	44.914	68.863	25.189	0.00	0.00
ATOM	1651	HA	SER	X	106	44.052	69.510	25.353	0.00	0.00
ATOM	1652	CB	SER	X	106	44.797	68.108	23.875	0.00	0.00
ATOM	1653	HB2	SER	X	106	44.055	67.315	23.966	0.00	0.00
ATOM	1654	HB3	SER	X	106	44.539	68.846	23.116	0.00	0.00
ATOM	1655	OG	SER	X	106	46.041	67.531	23.504	0.00	0.00
ATOM	1656	HG	SER	X	106	46.099	67.622	22.550	0.00	0.00
ATOM	1657	C	SER	X	106	44.948	67.856	26.403	0.00	0.00
ATOM	1658	O	SER	X	106	46.014	67.333	26.712	0.00	0.00
ATOM	1659	N	PRO	X	107	43.774	67.584	27.001	0.00	0.00
ATOM	1660	CD	PRO	X	107	42.472	68.201	26.721	0.00	0.00
ATOM	1661	HD2	PRO	X	107	42.237	68.163	25.657	0.00	0.00
ATOM	1662	HD3	PRO	X	107	42.469	69.233	27.074	0.00	0.00
ATOM	1663	CG	PRO	X	107	41.447	67.476	27.599	0.00	0.00
ATOM	1664	HG2	PRO	X	107	40.903	66.745	27.001	0.00	0.00
ATOM	1665	HG3	PRO	X	107	40.818	68.147	28.184	0.00	0.00
ATOM	1666	CB	PRO	X	107	42.351	66.719	28.666	0.00	0.00
ATOM	1667	HB2	PRO	X	107	41.916	65.811	29.085	0.00	0.00
ATOM	1668	HB3	PRO	X	107	42.416	67.316	29.576	0.00	0.00
ATOM	1669	CA	PRO	X	107	43.695	66.494	27.974	0.00	0.00
ATOM	1670	HA	PRO	X	107	44.583	66.531	28.605	0.00	0.00
ATOM	1671	C	PRO	X	107	43.645	65.111	27.304	0.00	0.00
ATOM	1672	O	PRO	X	107	43.683	65.058	26.066	0.00	0.00
ATOM	1673	N	THR	X	108	43.541	64.046	28.056	0.00	0.00
ATOM	1674	H	THR	X	108	43.604	64.128	29.061	0.00	0.00
ATOM	1675	CA	THR	X	108	43.575	62.646	27.523	0.00	0.00
ATOM	1676	HA	THR	X	108	42.819	62.493	26.753	0.00	0.00
ATOM	1677	CB	THR	X	108	44.956	62.295	26.883	0.00	0.00
ATOM	1678	HB	THR	X	108	45.237	63.127	26.237	0.00	0.00
ATOM	1679	CG2	THR	X	108	46.199	62.012	27.852	0.00	0.00
ATOM	1680	HG21	THR	X	108	46.270	62.758	28.643	0.00	0.00
ATOM	1681	HG22	THR	X	108	46.070	61.041	28.330	0.00	0.00
ATOM	1682	HG23	THR	X	108	47.076	61.896	27.215	0.00	0.00
ATOM	1683	OG1	THR	X	108	44.799	61.140	26.042	0.00	0.00
ATOM	1684	HG1	THR	X	108	45.534	61.010	25.438	0.00	0.00

ATOM	1685	C	THR	X	108	43.267	61.705	28.687	0.00	0.00
ATOM	1686	O	THR	X	108	43.473	62.040	29.886	0.00	0.00
ATOM	1687	N	PRO	X	109	42.584	60.556	28.376	0.00	0.00
ATOM	1688	CD	PRO	X	109	42.049	60.204	27.087	0.00	0.00
ATOM	1689	HD2	PRO	X	109	42.835	59.918	26.388	0.00	0.00
ATOM	1690	HD3	PRO	X	109	41.303	60.932	26.766	0.00	0.00
ATOM	1691	CG	PRO	X	109	41.353	58.866	27.354	0.00	0.00
ATOM	1692	HG2	PRO	X	109	41.445	58.123	26.562	0.00	0.00
ATOM	1693	HG3	PRO	X	109	40.300	59.083	27.535	0.00	0.00
ATOM	1694	CB	PRO	X	109	41.967	58.341	28.612	0.00	0.00
ATOM	1695	HB2	PRO	X	109	42.786	57.705	28.276	0.00	0.00
ATOM	1696	HB3	PRO	X	109	41.254	57.764	29.201	0.00	0.00
ATOM	1697	CA	PRO	X	109	42.320	59.582	29.408	0.00	0.00
ATOM	1698	HA	PRO	X	109	41.463	59.933	29.982	0.00	0.00
ATOM	1699	C	PRO	X	109	43.460	59.239	30.405	0.00	0.00
ATOM	1700	O	PRO	X	109	44.652	59.335	30.111	0.00	0.00
ATOM	1701	N	VAL	X	110	43.125	58.745	31.581	0.00	0.00
ATOM	1702	H	VAL	X	110	42.166	58.579	31.850	0.00	0.00
ATOM	1703	CA	VAL	X	110	44.101	58.388	32.674	0.00	0.00
ATOM	1704	HA	VAL	X	110	45.056	58.851	32.425	0.00	0.00
ATOM	1705	CB	VAL	X	110	43.611	59.059	33.991	0.00	0.00
ATOM	1706	HB	VAL	X	110	42.668	58.631	34.333	0.00	0.00
ATOM	1707	CG1	VAL	X	110	44.605	58.792	35.121	0.00	0.00
ATOM	1708	HG11	VAL	X	110	45.563	59.225	34.832	0.00	0.00
ATOM	1709	HG12	VAL	X	110	44.182	59.264	36.008	0.00	0.00
ATOM	1710	HG13	VAL	X	110	44.593	57.726	35.347	0.00	0.00
ATOM	1711	CG2	VAL	X	110	43.214	60.507	33.761	0.00	0.00
ATOM	1712	HG21	VAL	X	110	44.051	60.976	33.242	0.00	0.00
ATOM	1713	HG22	VAL	X	110	42.268	60.584	33.226	0.00	0.00
ATOM	1714	HG23	VAL	X	110	43.066	61.015	34.714	0.00	0.00
ATOM	1715	C	VAL	X	110	44.193	56.825	32.874	0.00	0.00
ATOM	1716	O	VAL	X	110	43.117	56.219	32.594	0.00	0.00
ATOM	1717	N	LEU	X	111	45.268	56.330	33.449	0.00	0.00
ATOM	1718	H	LEU	X	111	46.065	56.937	33.576	0.00	0.00
ATOM	1719	CA	LEU	X	111	45.353	55.041	34.031	0.00	0.00
ATOM	1720	HA	LEU	X	111	44.375	54.559	34.039	0.00	0.00
ATOM	1721	CB	LEU	X	111	46.394	54.098	33.241	0.00	0.00
ATOM	1722	HB2	LEU	X	111	47.329	54.658	33.246	0.00	0.00
ATOM	1723	HB3	LEU	X	111	46.566	53.225	33.870	0.00	0.00
ATOM	1724	CG	LEU	X	111	46.036	53.606	31.814	0.00	0.00
ATOM	1725	HG	LEU	X	111	45.022	53.215	31.903	0.00	0.00
ATOM	1726	CD1	LEU	X	111	45.979	54.709	30.795	0.00	0.00
ATOM	1727	HD11	LEU	X	111	44.995	55.180	30.788	0.00	0.00
ATOM	1728	HD12	LEU	X	111	46.669	55.496	31.101	0.00	0.00
ATOM	1729	HD13	LEU	X	111	46.167	54.231	29.834	0.00	0.00
ATOM	1730	CD2	LEU	X	111	46.962	52.414	31.583	0.00	0.00
ATOM	1731	HD21	LEU	X	111	47.974	52.746	31.818	0.00	0.00
ATOM	1732	HD22	LEU	X	111	46.760	51.628	32.311	0.00	0.00
ATOM	1733	HD23	LEU	X	111	46.830	52.075	30.556	0.00	0.00
ATOM	1734	C	LEU	X	111	45.810	55.247	35.491	0.00	0.00
ATOM	1735	O	LEU	X	111	46.721	56.012	35.681	0.00	0.00
ATOM	1736	N	VAL	X	112	45.215	54.459	36.368	0.00	0.00
ATOM	1737	H	VAL	X	112	44.420	53.920	36.054	0.00	0.00
ATOM	1738	CA	VAL	X	112	45.632	54.481	37.815	0.00	0.00
ATOM	1739	HA	VAL	X	112	46.368	55.277	37.925	0.00	0.00
ATOM	1740	CB	VAL	X	112	44.440	54.913	38.758	0.00	0.00
ATOM	1741	HB	VAL	X	112	43.751	54.074	38.856	0.00	0.00
ATOM	1742	CG1	VAL	X	112	45.033	55.334	40.142	0.00	0.00
ATOM	1743	HG11	VAL	X	112	45.521	54.411	40.454	0.00	0.00
ATOM	1744	HG12	VAL	X	112	45.730	56.165	40.036	0.00	0.00
ATOM	1745	HG13	VAL	X	112	44.195	55.643	40.766	0.00	0.00
ATOM	1746	CG2	VAL	X	112	43.547	56.096	38.141	0.00	0.00
ATOM	1747	HG21	VAL	X	112	43.027	55.681	37.278	0.00	0.00
ATOM	1748	HG22	VAL	X	112	42.695	56.140	38.819	0.00	0.00
ATOM	1749	HG23	VAL	X	112	43.969	57.100	38.204	0.00	0.00
ATOM	1750	C	VAL	X	112	46.149	53.104	38.251	0.00	0.00
ATOM	1751	O	VAL	X	112	45.384	52.174	38.371	0.00	0.00
ATOM	1752	N	TRP	X	113	47.381	53.165	38.640	0.00	0.00
ATOM	1753	H	TRP	X	113	47.916	54.015	38.536	0.00	0.00
ATOM	1754	CA	TRP	X	113	48.067	51.858	38.973	0.00	0.00

ATOM	1755	HA	TRP	X	113	47.682	51.075	38.320	0.00	0.00
ATOM	1756	CB	TRP	X	113	49.554	51.873	38.647	0.00	0.00
ATOM	1757	HB2	TRP	X	113	49.631	52.123	37.589	0.00	0.00
ATOM	1758	HB3	TRP	X	113	49.991	52.633	39.294	0.00	0.00
ATOM	1759	CG	TRP	X	113	50.311	50.650	39.022	0.00	0.00
ATOM	1760	CD1	TRP	X	113	51.160	50.622	40.071	0.00	0.00
ATOM	1761	HD1	TRP	X	113	51.433	51.477	40.673	0.00	0.00
ATOM	1762	NE1	TRP	X	113	51.538	49.368	40.261	0.00	0.00
ATOM	1763	HE1	TRP	X	113	52.149	49.122	41.026	0.00	0.00
ATOM	1764	CE2	TRP	X	113	51.029	48.509	39.317	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	51.092	47.121	39.084	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	51.690	46.450	39.684	0.00	0.00
ATOM	1767	CH2	TRP	X	113	50.399	46.572	38.070	0.00	0.00
ATOM	1768	HH2	TRP	X	113	50.281	45.509	37.918	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	49.541	47.357	37.284	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	49.038	46.897	36.446	0.00	0.00
ATOM	1771	CE3	TRP	X	113	49.403	48.778	37.479	0.00	0.00
ATOM	1772	HE3	TRP	X	113	48.686	49.300	36.863	0.00	0.00
ATOM	1773	CD2	TRP	X	113	50.199	49.363	38.494	0.00	0.00
ATOM	1774	C	TRP	X	113	47.879	51.413	40.459	0.00	0.00
ATOM	1775	O	TRP	X	113	48.021	52.215	41.408	0.00	0.00
ATOM	1776	N	ILE	X	114	47.548	50.142	40.713	0.00	0.00
ATOM	1777	H	ILE	X	114	47.564	49.498	39.936	0.00	0.00
ATOM	1778	CA	ILE	X	114	47.408	49.483	42.037	0.00	0.00
ATOM	1779	HA	ILE	X	114	47.946	50.086	42.769	0.00	0.00
ATOM	1780	CB	ILE	X	114	45.909	49.435	42.308	0.00	0.00
ATOM	1781	HB	ILE	X	114	45.546	48.768	41.526	0.00	0.00
ATOM	1782	CG2	ILE	X	114	45.640	48.806	43.681	0.00	0.00
ATOM	1783	HG21	ILE	X	114	44.584	48.590	43.844	0.00	0.00
ATOM	1784	HG22	ILE	X	114	46.020	47.786	43.736	0.00	0.00
ATOM	1785	HG23	ILE	X	114	45.971	49.496	44.456	0.00	0.00
ATOM	1786	CG1	ILE	X	114	45.127	50.727	42.228	0.00	0.00
ATOM	1787	HG12	ILE	X	114	44.967	51.064	43.252	0.00	0.00
ATOM	1788	HG13	ILE	X	114	45.746	51.435	41.677	0.00	0.00
ATOM	1789	CD1	ILE	X	114	43.807	50.486	41.404	0.00	0.00
ATOM	1790	HD11	ILE	X	114	43.898	50.260	40.342	0.00	0.00
ATOM	1791	HD12	ILE	X	114	43.223	49.715	41.908	0.00	0.00
ATOM	1792	HD13	ILE	X	114	43.089	51.306	41.442	0.00	0.00
ATOM	1793	C	ILE	X	114	48.082	48.108	42.025	0.00	0.00
ATOM	1794	O	ILE	X	114	47.685	47.258	41.275	0.00	0.00
ATOM	1795	N	TYR	X	115	49.066	47.884	42.889	0.00	0.00
ATOM	1796	H	TYR	X	115	49.216	48.542	43.640	0.00	0.00
ATOM	1797	CA	TYR	X	115	50.015	46.828	42.882	0.00	0.00
ATOM	1798	HA	TYR	X	115	50.052	46.424	41.870	0.00	0.00
ATOM	1799	CB	TYR	X	115	51.457	47.373	43.305	0.00	0.00
ATOM	1800	HB2	TYR	X	115	52.188	46.567	43.259	0.00	0.00
ATOM	1801	HB3	TYR	X	115	51.835	47.943	42.456	0.00	0.00
ATOM	1802	CG	TYR	X	115	51.439	48.128	44.646	0.00	0.00
ATOM	1803	CD1	TYR	X	115	51.224	47.402	45.809	0.00	0.00
ATOM	1804	HD1	TYR	X	115	51.236	46.324	45.739	0.00	0.00
ATOM	1805	CE1	TYR	X	115	51.077	48.056	47.069	0.00	0.00
ATOM	1806	HE1	TYR	X	115	50.805	47.554	47.986	0.00	0.00
ATOM	1807	CZ	TYR	X	115	51.276	49.448	47.118	0.00	0.00
ATOM	1808	OH	TYR	X	115	51.131	50.204	48.198	0.00	0.00
ATOM	1809	HH	TYR	X	115	51.176	49.620	48.959	0.00	0.00
ATOM	1810	CE2	TYR	X	115	51.532	50.162	45.926	0.00	0.00
ATOM	1811	HE2	TYR	X	115	51.650	51.233	45.993	0.00	0.00
ATOM	1812	CD2	TYR	X	115	51.588	49.507	44.684	0.00	0.00
ATOM	1813	HD2	TYR	X	115	51.793	49.991	43.740	0.00	0.00
ATOM	1814	C	TYR	X	115	49.578	45.596	43.763	0.00	0.00
ATOM	1815	O	TYR	X	115	48.893	45.638	44.784	0.00	0.00
ATOM	1816	N	GLY	X	116	50.135	44.451	43.409	0.00	0.00
ATOM	1817	H	GLY	X	116	50.525	44.493	42.478	0.00	0.00
ATOM	1818	CA	GLY	X	116	50.249	43.098	44.046	0.00	0.00
ATOM	1819	HA2	GLY	X	116	49.354	42.614	44.411	0.00	0.00
ATOM	1820	HA3	GLY	X	116	50.521	42.410	43.198	0.00	0.00
ATOM	1821	C	GLY	X	116	51.184	42.989	45.177	0.00	0.00
ATOM	1822	O	GLY	X	116	51.568	43.956	45.798	0.00	0.00
ATOM	1823	N	GLY	X	117	51.540	41.748	45.474	0.00	0.00
ATOM	1824	H	GLY	X	117	50.976	41.073	44.978	0.00	0.00

ATOM	1825	CA	GLY	X	117	52.345	41.311	46.598	0.00	0.00
ATOM	1826	HA2	GLY	X	117	53.075	40.534	46.415	0.00	0.00
ATOM	1827	HA3	GLY	X	117	52.937	42.145	47.027	0.00	0.00
ATOM	1828	C	GLY	X	117	51.557	40.768	47.777	0.00	0.00
ATOM	1829	O	GLY	X	117	52.011	40.969	48.902	0.00	0.00
ATOM	1830	N	GLY	X	118	50.442	40.081	47.552	0.00	0.00
ATOM	1831	H	GLY	X	118	50.136	40.019	46.591	0.00	0.00
ATOM	1832	CA	GLY	X	118	49.745	39.217	48.556	0.00	0.00
ATOM	1833	HA2	GLY	X	118	49.225	38.544	47.952	0.00	0.00
ATOM	1834	HA3	GLY	X	118	50.424	38.699	49.211	0.00	0.00
ATOM	1835	C	GLY	X	118	48.694	39.916	49.389	0.00	0.00
ATOM	1836	O	GLY	X	118	47.979	39.224	50.120	0.00	0.00
ATOM	1837	N	PHE	X	119	48.598	41.282	49.327	0.00	0.00
ATOM	1838	H	PHE	X	119	49.198	41.675	48.616	0.00	0.00
ATOM	1839	CA	PHE	X	119	48.042	42.171	50.366	0.00	0.00
ATOM	1840	HA	PHE	X	119	48.169	43.185	49.986	0.00	0.00
ATOM	1841	CB	PHE	X	119	46.534	41.818	50.678	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.503	40.894	51.257	0.00	0.00
ATOM	1843	HB3	PHE	X	119	46.103	42.574	51.334	0.00	0.00
ATOM	1844	CG	PHE	X	119	45.606	41.741	49.502	0.00	0.00
ATOM	1845	CD1	PHE	X	119	45.102	42.865	48.931	0.00	0.00
ATOM	1846	HD1	PHE	X	119	45.567	43.825	49.100	0.00	0.00
ATOM	1847	CE1	PHE	X	119	44.044	42.789	47.961	0.00	0.00
ATOM	1848	HE1	PHE	X	119	43.580	43.671	47.543	0.00	0.00
ATOM	1849	CZ	PHE	X	119	43.460	41.540	47.745	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.638	41.506	47.045	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.984	40.370	48.357	0.00	0.00
ATOM	1852	HE2	PHE	X	119	43.485	39.469	48.031	0.00	0.00
ATOM	1853	CD2	PHE	X	119	45.063	40.480	49.211	0.00	0.00
ATOM	1854	HD2	PHE	X	119	45.475	39.572	49.627	0.00	0.00
ATOM	1855	C	PHE	X	119	48.924	42.148	51.631	0.00	0.00
ATOM	1856	O	PHE	X	119	48.465	42.763	52.568	0.00	0.00
ATOM	1857	N	TYR	X	120	50.106	41.546	51.639	0.00	0.00
ATOM	1858	H	TYR	X	120	50.517	41.125	50.818	0.00	0.00
ATOM	1859	CA	TYR	X	120	50.979	41.602	52.795	0.00	0.00
ATOM	1860	HA	TYR	X	120	50.414	42.136	53.559	0.00	0.00
ATOM	1861	CB	TYR	X	120	51.128	40.193	53.359	0.00	0.00
ATOM	1862	HB2	TYR	X	120	51.272	40.261	54.437	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.238	39.563	53.353	0.00	0.00
ATOM	1864	CG	TYR	X	120	52.303	39.348	52.851	0.00	0.00
ATOM	1865	CD1	TYR	X	120	53.251	38.873	53.789	0.00	0.00
ATOM	1866	HD1	TYR	X	120	53.081	39.071	54.837	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.426	38.280	53.284	0.00	0.00
ATOM	1868	HE1	TYR	X	120	55.232	38.031	53.958	0.00	0.00
ATOM	1869	CZ	TYR	X	120	54.538	38.050	51.862	0.00	0.00
ATOM	1870	OH	TYR	X	120	55.714	37.385	51.520	0.00	0.00
ATOM	1871	HH	TYR	X	120	56.224	37.136	52.295	0.00	0.00
ATOM	1872	CE2	TYR	X	120	53.582	38.398	50.904	0.00	0.00
ATOM	1873	HE2	TYR	X	120	53.693	38.264	49.838	0.00	0.00
ATOM	1874	CD2	TYR	X	120	52.509	39.165	51.410	0.00	0.00
ATOM	1875	HD2	TYR	X	120	51.780	39.474	50.675	0.00	0.00
ATOM	1876	C	TYR	X	120	52.322	42.366	52.665	0.00	0.00
ATOM	1877	O	TYR	X	120	53.240	42.288	53.485	0.00	0.00
ATOM	1878	N	SER	X	121	52.589	42.958	51.469	0.00	0.00
ATOM	1879	H	SER	X	121	51.923	42.914	50.711	0.00	0.00
ATOM	1880	CA	SER	X	121	53.806	43.529	50.958	0.00	0.00
ATOM	1881	HA	SER	X	121	54.173	44.218	51.719	0.00	0.00
ATOM	1882	CB	SER	X	121	54.931	42.500	50.741	0.00	0.00
ATOM	1883	HB2	SER	X	121	55.888	42.967	50.507	0.00	0.00
ATOM	1884	HB3	SER	X	121	54.988	41.926	51.667	0.00	0.00
ATOM	1885	OG	SER	X	121	54.593	41.362	49.910	0.00	0.00
ATOM	1886	HG	SER	X	121	53.667	41.380	49.657	0.00	0.00
ATOM	1887	C	SER	X	121	53.422	44.324	49.671	0.00	0.00
ATOM	1888	O	SER	X	121	52.250	44.096	49.292	0.00	0.00
ATOM	1889	N	GLY	X	122	54.315	45.021	48.988	0.00	0.00
ATOM	1890	H	GLY	X	122	55.267	44.748	49.191	0.00	0.00
ATOM	1891	CA	GLY	X	122	54.105	45.797	47.767	0.00	0.00
ATOM	1892	HA2	GLY	X	122	54.840	45.553	47.009	0.00	0.00
ATOM	1893	HA3	GLY	X	122	53.061	45.575	47.414	0.00	0.00
ATOM	1894	C	GLY	X	122	54.309	47.327	48.070	0.00	0.00

ATOM	1895	O	GLY	X	122	54.100	47.808	49.185	0.00	0.00
ATOM	1896	N	ALA	X	123	54.838	48.051	47.094	0.00	0.00
ATOM	1897	H	ALA	X	123	54.881	47.687	46.153	0.00	0.00
ATOM	1898	CA	ALA	X	123	55.261	49.436	47.210	0.00	0.00
ATOM	1899	HA	ALA	X	123	54.614	50.006	47.876	0.00	0.00
ATOM	1900	CB	ALA	X	123	56.672	49.426	47.860	0.00	0.00
ATOM	1901	HB1	ALA	X	123	57.133	50.411	47.938	0.00	0.00
ATOM	1902	HB2	ALA	X	123	56.527	49.103	48.891	0.00	0.00
ATOM	1903	HB3	ALA	X	123	57.298	48.740	47.289	0.00	0.00
ATOM	1904	C	ALA	X	123	55.288	50.102	45.799	0.00	0.00
ATOM	1905	O	ALA	X	123	55.671	49.446	44.809	0.00	0.00
ATOM	1906	N	SER	X	124	54.999	51.416	45.876	0.00	0.00
ATOM	1907	H	SER	X	124	54.673	51.769	46.765	0.00	0.00
ATOM	1908	CA	SER	X	124	54.884	52.208	44.689	0.00	0.00
ATOM	1909	HA	SER	X	124	54.164	51.724	44.028	0.00	0.00
ATOM	1910	CB	SER	X	124	54.227	53.567	45.015	0.00	0.00
ATOM	1911	HB2	SER	X	124	53.459	53.459	45.782	0.00	0.00
ATOM	1912	HB3	SER	X	124	55.003	54.222	45.412	0.00	0.00
ATOM	1913	OG	SER	X	124	53.618	54.299	43.985	0.00	0.00
ATOM	1914	HG	SER	X	124	52.701	54.020	43.948	0.00	0.00
ATOM	1915	C	SER	X	124	56.221	52.486	43.937	0.00	0.00
ATOM	1916	O	SER	X	124	56.279	52.986	42.790	0.00	0.00
ATOM	1917	N	SER	X	125	57.268	52.268	44.665	0.00	0.00
ATOM	1918	H	SER	X	125	57.066	51.991	45.615	0.00	0.00
ATOM	1919	CA	SER	X	125	58.649	52.363	44.315	0.00	0.00
ATOM	1920	HA	SER	X	125	58.742	53.238	43.673	0.00	0.00
ATOM	1921	CB	SER	X	125	59.467	52.689	45.594	0.00	0.00
ATOM	1922	HB2	SER	X	125	60.530	52.813	45.387	0.00	0.00
ATOM	1923	HB3	SER	X	125	59.208	53.660	46.014	0.00	0.00
ATOM	1924	OG	SER	X	125	59.077	51.727	46.602	0.00	0.00
ATOM	1925	HG	SER	X	125	59.693	50.991	46.590	0.00	0.00
ATOM	1926	C	SER	X	125	59.350	51.220	43.603	0.00	0.00
ATOM	1927	O	SER	X	125	60.531	51.290	43.200	0.00	0.00
ATOM	1928	N	LEU	X	126	58.698	50.033	43.418	0.00	0.00
ATOM	1929	H	LEU	X	126	57.692	49.984	43.490	0.00	0.00
ATOM	1930	CA	LEU	X	126	59.409	48.803	43.027	0.00	0.00
ATOM	1931	HA	LEU	X	126	60.346	48.752	43.583	0.00	0.00
ATOM	1932	CB	LEU	X	126	58.512	47.650	43.437	0.00	0.00
ATOM	1933	HB2	LEU	X	126	57.506	47.745	43.029	0.00	0.00
ATOM	1934	HB3	LEU	X	126	58.955	46.744	43.021	0.00	0.00
ATOM	1935	CG	LEU	X	126	58.267	47.398	44.958	0.00	0.00
ATOM	1936	HG	LEU	X	126	58.018	48.354	45.419	0.00	0.00
ATOM	1937	CD1	LEU	X	126	57.263	46.237	45.286	0.00	0.00
ATOM	1938	HD11	LEU	X	126	56.934	46.222	46.325	0.00	0.00
ATOM	1939	HD12	LEU	X	126	56.328	46.458	44.771	0.00	0.00
ATOM	1940	HD13	LEU	X	126	57.655	45.348	44.791	0.00	0.00
ATOM	1941	CD2	LEU	X	126	59.648	46.962	45.525	0.00	0.00
ATOM	1942	HD21	LEU	X	126	59.861	45.941	45.209	0.00	0.00
ATOM	1943	HD22	LEU	X	126	60.552	47.509	45.258	0.00	0.00
ATOM	1944	HD23	LEU	X	126	59.525	46.819	46.598	0.00	0.00
ATOM	1945	C	LEU	X	126	59.673	48.726	41.521	0.00	0.00
ATOM	1946	O	LEU	X	126	59.142	49.485	40.731	0.00	0.00
ATOM	1947	N	ASP	X	127	60.664	47.936	41.103	0.00	0.00
ATOM	1948	H	ASP	X	127	61.079	47.325	41.792	0.00	0.00
ATOM	1949	CA	ASP	X	127	61.304	48.024	39.785	0.00	0.00
ATOM	1950	HA	ASP	X	127	61.508	49.089	39.677	0.00	0.00
ATOM	1951	CB	ASP	X	127	62.643	47.221	39.767	0.00	0.00
ATOM	1952	HB2	ASP	X	127	63.311	47.540	40.567	0.00	0.00
ATOM	1953	HB3	ASP	X	127	62.445	46.165	39.950	0.00	0.00
ATOM	1954	CG	ASP	X	127	63.379	47.456	38.451	0.00	0.00
ATOM	1955	OD1	ASP	X	127	63.398	48.622	38.047	0.00	0.00
ATOM	1956	OD2	ASP	X	127	64.126	46.599	37.931	0.00	0.00
ATOM	1957	C	ASP	X	127	60.440	47.613	38.605	0.00	0.00
ATOM	1958	O	ASP	X	127	60.630	46.509	37.999	0.00	0.00
ATOM	1959	N	VAL	X	128	59.491	48.521	38.172	0.00	0.00
ATOM	1960	H	VAL	X	128	59.257	49.245	38.837	0.00	0.00
ATOM	1961	CA	VAL	X	128	58.549	48.436	37.009	0.00	0.00
ATOM	1962	HA	VAL	X	128	59.080	48.564	36.066	0.00	0.00
ATOM	1963	CB	VAL	X	128	57.765	47.120	36.997	0.00	0.00
ATOM	1964	HB	VAL	X	128	58.523	46.411	36.664	0.00	0.00

ATOM	1965	CG1	VAL	X	128	57.211	46.683	38.339	0.00	0.00
ATOM	1966	HG11	VAL	X	128	56.323	46.078	38.156	0.00	0.00
ATOM	1967	HG12	VAL	X	128	57.829	46.021	38.946	0.00	0.00
ATOM	1968	HG13	VAL	X	128	56.965	47.520	38.992	0.00	0.00
ATOM	1969	CG2	VAL	X	128	56.759	47.086	35.824	0.00	0.00
ATOM	1970	HG21	VAL	X	128	55.904	47.728	36.040	0.00	0.00
ATOM	1971	HG22	VAL	X	128	57.146	47.401	34.855	0.00	0.00
ATOM	1972	HG23	VAL	X	128	56.396	46.062	35.734	0.00	0.00
ATOM	1973	C	VAL	X	128	57.594	49.671	37.076	0.00	0.00
ATOM	1974	O	VAL	X	128	57.262	50.269	36.098	0.00	0.00
ATOM	1975	N	TYR	X	129	57.243	50.139	38.294	0.00	0.00
ATOM	1976	H	TYR	X	129	57.554	49.606	39.094	0.00	0.00
ATOM	1977	CA	TYR	X	129	56.130	51.111	38.531	0.00	0.00
ATOM	1978	HA	TYR	X	129	55.311	50.856	37.858	0.00	0.00
ATOM	1979	CB	TYR	X	129	55.525	50.897	39.917	0.00	0.00
ATOM	1980	HB2	TYR	X	129	56.072	51.298	40.769	0.00	0.00
ATOM	1981	HB3	TYR	X	129	54.573	51.420	39.829	0.00	0.00
ATOM	1982	CG	TYR	X	129	55.031	49.491	40.292	0.00	0.00
ATOM	1983	CD1	TYR	X	129	55.129	49.101	41.627	0.00	0.00
ATOM	1984	HD1	TYR	X	129	55.425	49.822	42.374	0.00	0.00
ATOM	1985	CE1	TYR	X	129	54.725	47.836	42.072	0.00	0.00
ATOM	1986	HE1	TYR	X	129	54.924	47.577	43.101	0.00	0.00
ATOM	1987	CZ	TYR	X	129	54.282	46.836	41.186	0.00	0.00
ATOM	1988	OH	TYR	X	129	53.913	45.607	41.579	0.00	0.00
ATOM	1989	HH	TYR	X	129	53.533	45.112	40.850	0.00	0.00
ATOM	1990	CE2	TYR	X	129	54.164	47.276	39.837	0.00	0.00
ATOM	1991	HE2	TYR	X	129	53.705	46.606	39.125	0.00	0.00
ATOM	1992	CD2	TYR	X	129	54.526	48.525	39.382	0.00	0.00
ATOM	1993	HD2	TYR	X	129	54.361	48.844	38.364	0.00	0.00
ATOM	1994	C	TYR	X	129	56.445	52.605	38.236	0.00	0.00
ATOM	1995	O	TYR	X	129	56.278	53.482	39.090	0.00	0.00
ATOM	1996	N	ASP	X	130	56.852	52.922	37.046	0.00	0.00
ATOM	1997	H	ASP	X	130	56.772	52.176	36.369	0.00	0.00
ATOM	1998	CA	ASP	X	130	57.201	54.250	36.521	0.00	0.00
ATOM	1999	HA	ASP	X	130	56.778	54.987	37.203	0.00	0.00
ATOM	2000	CB	ASP	X	130	58.713	54.297	36.516	0.00	0.00
ATOM	2001	HB2	ASP	X	130	59.097	54.066	37.510	0.00	0.00
ATOM	2002	HB3	ASP	X	130	59.167	53.462	35.983	0.00	0.00
ATOM	2003	CG	ASP	X	130	59.374	55.619	36.113	0.00	0.00
ATOM	2004	OD1	ASP	X	130	59.055	56.231	35.070	0.00	0.00
ATOM	2005	OD2	ASP	X	130	60.387	56.049	36.708	0.00	0.00
ATOM	2006	C	ASP	X	130	56.542	54.501	35.151	0.00	0.00
ATOM	2007	O	ASP	X	130	56.838	53.748	34.208	0.00	0.00
ATOM	2008	N	GLY	X	131	55.806	55.620	35.085	0.00	0.00
ATOM	2009	H	GLY	X	131	55.707	56.197	35.908	0.00	0.00
ATOM	2010	CA	GLY	X	131	55.058	56.010	33.883	0.00	0.00
ATOM	2011	HA2	GLY	X	131	54.582	55.058	33.621	0.00	0.00
ATOM	2012	HA3	GLY	X	131	54.363	56.762	34.222	0.00	0.00
ATOM	2013	C	GLY	X	131	55.800	56.556	32.677	0.00	0.00
ATOM	2014	O	GLY	X	131	55.057	56.899	31.765	0.00	0.00
ATOM	2015	N	ARG	X	132	57.124	56.675	32.685	0.00	0.00
ATOM	2016	H	ARG	X	132	57.637	56.405	33.513	0.00	0.00
ATOM	2017	CA	ARG	X	132	57.786	57.503	31.607	0.00	0.00
ATOM	2018	HA	ARG	X	132	57.255	58.455	31.600	0.00	0.00
ATOM	2019	CB	ARG	X	132	59.267	57.720	31.881	0.00	0.00
ATOM	2020	HB2	ARG	X	132	59.702	58.274	31.049	0.00	0.00
ATOM	2021	HB3	ARG	X	132	59.307	58.347	32.772	0.00	0.00
ATOM	2022	CG	ARG	X	132	60.112	56.469	32.008	0.00	0.00
ATOM	2023	HG2	ARG	X	132	59.640	55.682	32.596	0.00	0.00
ATOM	2024	HG3	ARG	X	132	60.241	56.088	30.994	0.00	0.00
ATOM	2025	CD	ARG	X	132	61.486	56.920	32.602	0.00	0.00
ATOM	2026	HD2	ARG	X	132	62.093	56.039	32.397	0.00	0.00
ATOM	2027	HD3	ARG	X	132	61.820	57.772	32.009	0.00	0.00
ATOM	2028	NE	ARG	X	132	61.458	57.212	34.042	0.00	0.00
ATOM	2029	HE	ARG	X	132	60.748	56.634	34.468	0.00	0.00
ATOM	2030	CZ	ARG	X	132	62.355	57.848	34.749	0.00	0.00
ATOM	2031	NH1	ARG	X	132	63.218	58.748	34.285	0.00	0.00
ATOM	2032	HH11	ARG	X	132	63.336	58.789	33.283	0.00	0.00
ATOM	2033	HH12	ARG	X	132	63.830	59.270	34.896	0.00	0.00
ATOM	2034	NH2	ARG	X	132	62.300	57.807	36.034	0.00	0.00

ATOM	2035	HH21	ARG	X	132	61.514	57.328	36.451	0.00	0.00
ATOM	2036	HH22	ARG	X	132	62.938	58.363	36.584	0.00	0.00
ATOM	2037	C	ARG	X	132	57.624	56.851	30.194	0.00	0.00
ATOM	2038	O	ARG	X	132	57.746	57.511	29.207	0.00	0.00
ATOM	2039	N	PHE	X	133	57.413	55.548	30.093	0.00	0.00
ATOM	2040	H	PHE	X	133	57.363	54.925	30.887	0.00	0.00
ATOM	2041	CA	PHE	X	133	57.316	54.864	28.768	0.00	0.00
ATOM	2042	HA	PHE	X	133	58.044	55.365	28.129	0.00	0.00
ATOM	2043	CB	PHE	X	133	57.839	53.467	28.906	0.00	0.00
ATOM	2044	HB2	PHE	X	133	57.085	52.948	29.498	0.00	0.00
ATOM	2045	HB3	PHE	X	133	58.041	52.924	27.982	0.00	0.00
ATOM	2046	CG	PHE	X	133	59.233	53.461	29.539	0.00	0.00
ATOM	2047	CD1	PHE	X	133	59.423	53.031	30.840	0.00	0.00
ATOM	2048	HD1	PHE	X	133	58.551	52.527	31.231	0.00	0.00
ATOM	2049	CE1	PHE	X	133	60.693	53.105	31.453	0.00	0.00
ATOM	2050	HE1	PHE	X	133	60.867	52.715	32.445	0.00	0.00
ATOM	2051	CZ	PHE	X	133	61.836	53.571	30.745	0.00	0.00
ATOM	2052	HZ	PHE	X	133	62.852	53.471	31.096	0.00	0.00
ATOM	2053	CE2	PHE	X	133	61.628	53.971	29.388	0.00	0.00
ATOM	2054	HE2	PHE	X	133	62.424	54.346	28.761	0.00	0.00
ATOM	2055	CD2	PHE	X	133	60.361	53.928	28.766	0.00	0.00
ATOM	2056	HD2	PHE	X	133	60.307	54.244	27.734	0.00	0.00
ATOM	2057	C	PHE	X	133	55.899	55.005	28.163	0.00	0.00
ATOM	2058	O	PHE	X	133	55.775	55.372	26.984	0.00	0.00
ATOM	2059	N	LEU	X	134	54.824	54.696	28.953	0.00	0.00
ATOM	2060	H	LEU	X	134	55.065	54.251	29.826	0.00	0.00
ATOM	2061	CA	LEU	X	134	53.367	54.977	28.609	0.00	0.00
ATOM	2062	HA	LEU	X	134	53.067	54.499	27.677	0.00	0.00
ATOM	2063	CB	LEU	X	134	52.515	54.505	29.810	0.00	0.00
ATOM	2064	HB2	LEU	X	134	52.899	53.538	30.134	0.00	0.00
ATOM	2065	HB3	LEU	X	134	52.453	55.130	30.700	0.00	0.00
ATOM	2066	CG	LEU	X	134	51.034	54.361	29.487	0.00	0.00
ATOM	2067	HG	LEU	X	134	50.782	55.244	28.900	0.00	0.00
ATOM	2068	CD1	LEU	X	134	50.839	53.095	28.707	0.00	0.00
ATOM	2069	HD11	LEU	X	134	51.173	53.146	27.671	0.00	0.00
ATOM	2070	HD12	LEU	X	134	51.308	52.242	29.197	0.00	0.00
ATOM	2071	HD13	LEU	X	134	49.752	53.022	28.658	0.00	0.00
ATOM	2072	CD2	LEU	X	134	50.083	54.414	30.670	0.00	0.00
ATOM	2073	HD21	LEU	X	134	49.083	54.583	30.269	0.00	0.00
ATOM	2074	HD22	LEU	X	134	50.373	53.506	31.199	0.00	0.00
ATOM	2075	HD23	LEU	X	134	50.243	55.247	31.354	0.00	0.00
ATOM	2076	C	LEU	X	134	52.957	56.461	28.410	0.00	0.00
ATOM	2077	O	LEU	X	134	52.253	56.754	27.474	0.00	0.00
ATOM	2078	N	VAL	X	135	53.521	57.339	29.233	0.00	0.00
ATOM	2079	H	VAL	X	135	54.114	57.012	29.983	0.00	0.00
ATOM	2080	CA	VAL	X	135	53.486	58.804	28.992	0.00	0.00
ATOM	2081	HA	VAL	X	135	52.478	59.189	28.832	0.00	0.00
ATOM	2082	CB	VAL	X	135	53.920	59.482	30.325	0.00	0.00
ATOM	2083	HB	VAL	X	135	54.874	59.070	30.653	0.00	0.00
ATOM	2084	CG1	VAL	X	135	54.161	61.001	30.356	0.00	0.00
ATOM	2085	HG11	VAL	X	135	53.241	61.506	30.061	0.00	0.00
ATOM	2086	HG12	VAL	X	135	54.398	61.473	31.309	0.00	0.00
ATOM	2087	HG13	VAL	X	135	54.979	61.370	29.737	0.00	0.00
ATOM	2088	CG2	VAL	X	135	52.829	59.139	31.341	0.00	0.00
ATOM	2089	HG21	VAL	X	135	53.049	59.661	32.272	0.00	0.00
ATOM	2090	HG22	VAL	X	135	51.849	59.531	31.069	0.00	0.00
ATOM	2091	HG23	VAL	X	135	52.837	58.078	31.593	0.00	0.00
ATOM	2092	C	VAL	X	135	54.318	59.246	27.743	0.00	0.00
ATOM	2093	O	VAL	X	135	54.120	60.334	27.244	0.00	0.00
ATOM	2094	N	GLN	X	136	55.304	58.471	27.284	0.00	0.00
ATOM	2095	H	GLN	X	136	55.373	57.542	27.673	0.00	0.00
ATOM	2096	CA	GLN	X	136	56.199	58.816	26.141	0.00	0.00
ATOM	2097	HA	GLN	X	136	56.370	59.892	26.188	0.00	0.00
ATOM	2098	CB	GLN	X	136	57.585	58.069	26.192	0.00	0.00
ATOM	2099	HB2	GLN	X	136	58.069	58.520	27.058	0.00	0.00
ATOM	2100	HB3	GLN	X	136	57.481	56.986	26.260	0.00	0.00
ATOM	2101	CG	GLN	X	136	58.548	58.350	25.037	0.00	0.00
ATOM	2102	HG2	GLN	X	136	58.108	58.122	24.066	0.00	0.00
ATOM	2103	HG3	GLN	X	136	58.799	59.411	25.041	0.00	0.00
ATOM	2104	CD	GLN	X	136	59.836	57.589	25.089	0.00	0.00

ATOM	2105	OE1	GLN	X	136	60.857	58.106	25.462	0.00	0.00
ATOM	2106	NE2	GLN	X	136	59.800	56.310	24.700	0.00	0.00
ATOM	2107	HE21	GLN	X	136	60.675	55.806	24.734	0.00	0.00
ATOM	2108	HE22	GLN	X	136	59.087	55.831	24.167	0.00	0.00
ATOM	2109	C	GLN	X	136	55.495	58.338	24.794	0.00	0.00
ATOM	2110	O	GLN	X	136	55.460	59.126	23.861	0.00	0.00
ATOM	2111	N	ALA	X	137	54.948	57.091	24.659	0.00	0.00
ATOM	2112	H	ALA	X	137	55.034	56.485	25.463	0.00	0.00
ATOM	2113	CA	ALA	X	137	54.401	56.339	23.461	0.00	0.00
ATOM	2114	HA	ALA	X	137	55.061	56.617	22.639	0.00	0.00
ATOM	2115	CB	ALA	X	137	54.553	54.832	23.801	0.00	0.00
ATOM	2116	HB1	ALA	X	137	53.816	54.529	24.545	0.00	0.00
ATOM	2117	HB2	ALA	X	137	54.313	54.174	22.966	0.00	0.00
ATOM	2118	HB3	ALA	X	137	55.553	54.577	24.152	0.00	0.00
ATOM	2119	C	ALA	X	137	52.985	56.552	23.029	0.00	0.00
ATOM	2120	O	ALA	X	137	52.587	56.710	21.824	0.00	0.00
ATOM	2121	N	GLU	X	138	52.123	56.629	24.031	0.00	0.00
ATOM	2122	H	GLU	X	138	52.530	56.626	24.955	0.00	0.00
ATOM	2123	CA	GLU	X	138	50.668	56.815	23.900	0.00	0.00
ATOM	2124	HA	GLU	X	138	50.321	56.910	22.872	0.00	0.00
ATOM	2125	CB	GLU	X	138	50.077	55.597	24.607	0.00	0.00
ATOM	2126	HB2	GLU	X	138	50.618	55.517	25.549	0.00	0.00
ATOM	2127	HB3	GLU	X	138	49.007	55.694	24.794	0.00	0.00
ATOM	2128	CG	GLU	X	138	50.355	54.283	23.778	0.00	0.00
ATOM	2129	HG2	GLU	X	138	51.440	54.194	23.711	0.00	0.00
ATOM	2130	HG3	GLU	X	138	49.940	53.476	24.382	0.00	0.00
ATOM	2131	CD	GLU	X	138	49.854	54.270	22.390	0.00	0.00
ATOM	2132	OE1	GLU	X	138	48.985	55.098	22.007	0.00	0.00
ATOM	2133	OE2	GLU	X	138	50.440	53.534	21.570	0.00	0.00
ATOM	2134	C	GLU	X	138	50.194	58.033	24.655	0.00	0.00
ATOM	2135	O	GLU	X	138	49.037	58.452	24.481	0.00	0.00
ATOM	2136	N	ARG	X	139	51.026	58.677	25.491	0.00	0.00
ATOM	2137	H	ARG	X	139	51.912	58.233	25.690	0.00	0.00
ATOM	2138	CA	ARG	X	139	50.791	59.970	26.129	0.00	0.00
ATOM	2139	HA	ARG	X	139	51.762	60.131	26.598	0.00	0.00
ATOM	2140	CB	ARG	X	139	50.539	61.047	25.103	0.00	0.00
ATOM	2141	HB2	ARG	X	139	49.674	60.801	24.488	0.00	0.00
ATOM	2142	HB3	ARG	X	139	50.301	61.938	25.686	0.00	0.00
ATOM	2143	CG	ARG	X	139	51.742	61.389	24.259	0.00	0.00
ATOM	2144	HG2	ARG	X	139	52.678	61.328	24.815	0.00	0.00
ATOM	2145	HG3	ARG	X	139	51.716	60.758	23.371	0.00	0.00
ATOM	2146	CD	ARG	X	139	51.519	62.792	23.697	0.00	0.00
ATOM	2147	HD2	ARG	X	139	50.554	62.846	23.193	0.00	0.00
ATOM	2148	HD3	ARG	X	139	51.509	63.408	24.596	0.00	0.00
ATOM	2149	NE	ARG	X	139	52.701	63.173	22.914	0.00	0.00
ATOM	2150	HE	ARG	X	139	53.345	62.433	22.671	0.00	0.00
ATOM	2151	CZ	ARG	X	139	52.941	64.328	22.287	0.00	0.00
ATOM	2152	NH1	ARG	X	139	52.137	65.301	22.231	0.00	0.00
ATOM	2153	HH11	ARG	X	139	51.243	65.118	22.663	0.00	0.00
ATOM	2154	HH12	ARG	X	139	52.204	65.984	21.490	0.00	0.00
ATOM	2155	NH2	ARG	X	139	54.046	64.390	21.592	0.00	0.00
ATOM	2156	HH21	ARG	X	139	54.683	63.606	21.565	0.00	0.00
ATOM	2157	HH22	ARG	X	139	54.401	65.237	21.171	0.00	0.00
ATOM	2158	C	ARG	X	139	49.748	59.817	27.315	0.00	0.00
ATOM	2159	O	ARG	X	139	49.603	60.893	27.907	0.00	0.00
ATOM	2160	N	THR	X	140	49.035	58.736	27.583	0.00	0.00
ATOM	2161	H	THR	X	140	49.295	57.958	26.993	0.00	0.00
ATOM	2162	CA	THR	X	140	47.884	58.626	28.546	0.00	0.00
ATOM	2163	HA	THR	X	140	47.167	59.422	28.348	0.00	0.00
ATOM	2164	CB	THR	X	140	47.101	57.313	28.310	0.00	0.00
ATOM	2165	HB	THR	X	140	46.378	57.148	29.109	0.00	0.00
ATOM	2166	CG2	THR	X	140	46.254	57.391	27.082	0.00	0.00
ATOM	2167	HG21	THR	X	140	46.655	57.034	26.133	0.00	0.00
ATOM	2168	HG22	THR	X	140	45.376	56.755	27.196	0.00	0.00
ATOM	2169	HG23	THR	X	140	45.793	58.368	26.938	0.00	0.00
ATOM	2170	OG1	THR	X	140	47.966	56.238	28.091	0.00	0.00
ATOM	2171	HG1	THR	X	140	48.660	56.203	28.753	0.00	0.00
ATOM	2172	C	THR	X	140	48.414	58.724	30.022	0.00	0.00
ATOM	2173	O	THR	X	140	49.490	58.259	30.307	0.00	0.00
ATOM	2174	N	VAL	X	141	47.676	59.484	30.934	0.00	0.00

ATOM	2175	H	VAL	X	141	46.699	59.704	30.805	0.00	0.00
ATOM	2176	CA	VAL	X	141	48.362	59.999	32.108	0.00	0.00
ATOM	2177	HA	VAL	X	141	49.305	60.315	31.662	0.00	0.00
ATOM	2178	CB	VAL	X	141	47.624	61.225	32.697	0.00	0.00
ATOM	2179	HB	VAL	X	141	46.580	60.935	32.814	0.00	0.00
ATOM	2180	CG1	VAL	X	141	48.200	61.711	34.014	0.00	0.00
ATOM	2181	HG11	VAL	X	141	47.569	62.545	34.321	0.00	0.00
ATOM	2182	HG12	VAL	X	141	48.171	60.919	34.762	0.00	0.00
ATOM	2183	HG13	VAL	X	141	49.241	62.027	33.941	0.00	0.00
ATOM	2184	CG2	VAL	X	141	47.634	62.369	31.626	0.00	0.00
ATOM	2185	HG21	VAL	X	141	47.191	61.992	30.704	0.00	0.00
ATOM	2186	HG22	VAL	X	141	46.983	63.201	31.896	0.00	0.00
ATOM	2187	HG23	VAL	X	141	48.598	62.790	31.340	0.00	0.00
ATOM	2188	C	VAL	X	141	48.549	58.864	33.132	0.00	0.00
ATOM	2189	O	VAL	X	141	47.612	58.131	33.374	0.00	0.00
ATOM	2190	N	LEU	X	142	49.736	58.682	33.748	0.00	0.00
ATOM	2191	H	LEU	X	142	50.567	59.211	33.521	0.00	0.00
ATOM	2192	CA	LEU	X	142	49.978	57.557	34.621	0.00	0.00
ATOM	2193	HA	LEU	X	142	49.107	56.934	34.419	0.00	0.00
ATOM	2194	CB	LEU	X	142	51.242	56.843	34.305	0.00	0.00
ATOM	2195	HB2	LEU	X	142	51.104	56.395	33.321	0.00	0.00
ATOM	2196	HB3	LEU	X	142	52.069	57.544	34.185	0.00	0.00
ATOM	2197	CG	LEU	X	142	51.646	55.568	35.037	0.00	0.00
ATOM	2198	HG	LEU	X	142	52.448	55.020	34.543	0.00	0.00
ATOM	2199	CD1	LEU	X	142	52.177	55.732	36.478	0.00	0.00
ATOM	2200	HD11	LEU	X	142	52.878	54.944	36.752	0.00	0.00
ATOM	2201	HD12	LEU	X	142	52.773	56.644	36.435	0.00	0.00
ATOM	2202	HD13	LEU	X	142	51.328	55.910	37.138	0.00	0.00
ATOM	2203	CD2	LEU	X	142	50.511	54.581	34.963	0.00	0.00
ATOM	2204	HD21	LEU	X	142	50.805	53.713	35.553	0.00	0.00
ATOM	2205	HD22	LEU	X	142	49.569	54.916	35.398	0.00	0.00
ATOM	2206	HD23	LEU	X	142	50.228	54.158	33.999	0.00	0.00
ATOM	2207	C	LEU	X	142	49.966	57.988	36.117	0.00	0.00
ATOM	2208	O	LEU	X	142	50.952	58.598	36.599	0.00	0.00
ATOM	2209	N	VAL	X	143	48.927	57.492	36.804	0.00	0.00
ATOM	2210	H	VAL	X	143	48.196	56.972	36.340	0.00	0.00
ATOM	2211	CA	VAL	X	143	48.668	57.817	38.248	0.00	0.00
ATOM	2212	HA	VAL	X	143	49.335	58.628	38.541	0.00	0.00
ATOM	2213	CB	VAL	X	143	47.264	58.245	38.647	0.00	0.00
ATOM	2214	HB	VAL	X	143	46.654	57.410	38.303	0.00	0.00
ATOM	2215	CG1	VAL	X	143	47.026	58.566	40.157	0.00	0.00
ATOM	2216	HG11	VAL	X	143	45.965	58.502	40.399	0.00	0.00
ATOM	2217	HG12	VAL	X	143	47.503	57.840	40.815	0.00	0.00
ATOM	2218	HG13	VAL	X	143	47.444	59.533	40.436	0.00	0.00
ATOM	2219	CG2	VAL	X	143	46.790	59.480	37.770	0.00	0.00
ATOM	2220	HG21	VAL	X	143	46.967	59.295	36.711	0.00	0.00
ATOM	2221	HG22	VAL	X	143	45.784	59.807	38.031	0.00	0.00
ATOM	2222	HG23	VAL	X	143	47.329	60.372	38.089	0.00	0.00
ATOM	2223	C	VAL	X	143	48.999	56.561	39.021	0.00	0.00
ATOM	2224	O	VAL	X	143	48.840	55.442	38.516	0.00	0.00
ATOM	2225	N	SER	X	144	49.625	56.681	40.209	0.00	0.00
ATOM	2226	H	SER	X	144	50.053	57.563	40.451	0.00	0.00
ATOM	2227	CA	SER	X	144	50.094	55.530	40.997	0.00	0.00
ATOM	2228	HA	SER	X	144	49.488	54.645	40.806	0.00	0.00
ATOM	2229	CB	SER	X	144	51.501	55.048	40.666	0.00	0.00
ATOM	2230	HB2	SER	X	144	51.337	54.829	39.610	0.00	0.00
ATOM	2231	HB3	SER	X	144	52.137	55.909	40.870	0.00	0.00
ATOM	2232	OG	SER	X	144	51.879	53.914	41.420	0.00	0.00
ATOM	2233	HG	SER	X	144	52.838	53.958	41.440	0.00	0.00
ATOM	2234	C	SER	X	144	50.062	55.824	42.491	0.00	0.00
ATOM	2235	O	SER	X	144	50.577	56.780	42.948	0.00	0.00
ATOM	2236	N	MET	X	145	49.328	54.971	43.260	0.00	0.00
ATOM	2237	H	MET	X	145	48.838	54.231	42.778	0.00	0.00
ATOM	2238	CA	MET	X	145	49.058	55.152	44.702	0.00	0.00
ATOM	2239	HA	MET	X	145	48.967	56.203	44.976	0.00	0.00
ATOM	2240	CB	MET	X	145	47.732	54.526	45.057	0.00	0.00
ATOM	2241	HB2	MET	X	145	47.702	53.484	44.739	0.00	0.00
ATOM	2242	HB3	MET	X	145	47.582	54.556	46.136	0.00	0.00
ATOM	2243	CG	MET	X	145	46.485	55.290	44.473	0.00	0.00
ATOM	2244	HG2	MET	X	145	46.452	56.355	44.703	0.00	0.00

ATOM	2245	HG3	MET	X	145	46.572	55.146	43.396	0.00	0.00
ATOM	2246	SD	MET	X	145	44.834	54.551	45.029	0.00	0.00
ATOM	2247	CE	MET	X	145	43.921	54.984	43.531	0.00	0.00
ATOM	2248	HE1	MET	X	145	44.048	56.056	43.376	0.00	0.00
ATOM	2249	HE2	MET	X	145	44.224	54.307	42.732	0.00	0.00
ATOM	2250	HE3	MET	X	145	42.904	54.689	43.786	0.00	0.00
ATOM	2251	C	MET	X	145	50.140	54.506	45.512	0.00	0.00
ATOM	2252	O	MET	X	145	50.975	53.740	45.058	0.00	0.00
ATOM	2253	N	ASN	X	146	50.044	54.640	46.822	0.00	0.00
ATOM	2254	H	ASN	X	146	49.319	55.251	47.170	0.00	0.00
ATOM	2255	CA	ASN	X	146	50.626	53.815	47.794	0.00	0.00
ATOM	2256	HA	ASN	X	146	50.753	52.792	47.441	0.00	0.00
ATOM	2257	CB	ASN	X	146	51.974	54.412	48.195	0.00	0.00
ATOM	2258	HB2	ASN	X	146	52.412	54.849	47.297	0.00	0.00
ATOM	2259	HB3	ASN	X	146	51.780	55.224	48.896	0.00	0.00
ATOM	2260	CG	ASN	X	146	52.801	53.293	48.799	0.00	0.00
ATOM	2261	OD1	ASN	X	146	53.471	52.588	48.147	0.00	0.00
ATOM	2262	ND2	ASN	X	146	52.902	53.099	50.137	0.00	0.00
ATOM	2263	HD21	ASN	X	146	53.363	52.261	50.462	0.00	0.00
ATOM	2264	HD22	ASN	X	146	52.397	53.643	50.823	0.00	0.00
ATOM	2265	C	ASN	X	146	49.592	53.726	48.975	0.00	0.00
ATOM	2266	O	ASN	X	146	48.974	54.704	49.423	0.00	0.00
ATOM	2267	N	TYR	X	147	49.448	52.571	49.587	0.00	0.00
ATOM	2268	H	TYR	X	147	50.010	51.817	49.217	0.00	0.00
ATOM	2269	CA	TYR	X	147	48.344	52.263	50.604	0.00	0.00
ATOM	2270	HA	TYR	X	147	48.253	53.128	51.261	0.00	0.00
ATOM	2271	CB	TYR	X	147	47.040	51.924	49.870	0.00	0.00
ATOM	2272	HB2	TYR	X	147	46.249	51.605	50.548	0.00	0.00
ATOM	2273	HB3	TYR	X	147	46.691	52.859	49.433	0.00	0.00
ATOM	2274	CG	TYR	X	147	47.162	50.834	48.767	0.00	0.00
ATOM	2275	CD1	TYR	X	147	47.543	51.184	47.532	0.00	0.00
ATOM	2276	HD1	TYR	X	147	47.582	52.235	47.286	0.00	0.00
ATOM	2277	CE1	TYR	X	147	47.793	50.304	46.480	0.00	0.00
ATOM	2278	HE1	TYR	X	147	48.164	50.609	45.513	0.00	0.00
ATOM	2279	CZ	TYR	X	147	47.696	48.938	46.770	0.00	0.00
ATOM	2280	OH	TYR	X	147	47.866	48.154	45.702	0.00	0.00
ATOM	2281	HH	TYR	X	147	47.675	47.215	45.747	0.00	0.00
ATOM	2282	CE2	TYR	X	147	47.423	48.428	48.097	0.00	0.00
ATOM	2283	HE2	TYR	X	147	47.543	47.377	48.314	0.00	0.00
ATOM	2284	CD2	TYR	X	147	47.129	49.432	49.128	0.00	0.00
ATOM	2285	HD2	TYR	X	147	46.754	49.245	50.123	0.00	0.00
ATOM	2286	C	TYR	X	147	48.767	51.136	51.481	0.00	0.00
ATOM	2287	O	TYR	X	147	49.510	50.231	51.129	0.00	0.00
ATOM	2288	N	ARG	X	148	48.105	51.044	52.658	0.00	0.00
ATOM	2289	H	ARG	X	148	47.369	51.687	52.912	0.00	0.00
ATOM	2290	CA	ARG	X	148	48.469	50.048	53.742	0.00	0.00
ATOM	2291	HA	ARG	X	148	49.512	50.178	54.034	0.00	0.00
ATOM	2292	CB	ARG	X	148	47.766	50.374	55.049	0.00	0.00
ATOM	2293	HB2	ARG	X	148	46.720	50.527	54.785	0.00	0.00
ATOM	2294	HB3	ARG	X	148	47.863	49.458	55.632	0.00	0.00
ATOM	2295	CG	ARG	X	148	48.392	51.486	55.920	0.00	0.00
ATOM	2296	HG2	ARG	X	148	49.383	51.275	56.324	0.00	0.00
ATOM	2297	HG3	ARG	X	148	48.445	52.422	55.363	0.00	0.00
ATOM	2298	CD	ARG	X	148	47.576	51.938	57.169	0.00	0.00
ATOM	2299	HD2	ARG	X	148	47.478	51.135	57.899	0.00	0.00
ATOM	2300	HD3	ARG	X	148	48.131	52.705	57.710	0.00	0.00
ATOM	2301	NE	ARG	X	148	46.283	52.502	56.749	0.00	0.00
ATOM	2302	HE	ARG	X	148	46.218	52.607	55.747	0.00	0.00
ATOM	2303	CZ	ARG	X	148	45.257	52.836	57.478	0.00	0.00
ATOM	2304	NH1	ARG	X	148	45.311	52.851	58.817	0.00	0.00
ATOM	2305	HH11	ARG	X	148	46.194	52.787	59.302	0.00	0.00
ATOM	2306	HH12	ARG	X	148	44.443	52.992	59.314	0.00	0.00
ATOM	2307	NH2	ARG	X	148	44.185	53.318	56.875	0.00	0.00
ATOM	2308	HH21	ARG	X	148	44.183	53.518	55.885	0.00	0.00
ATOM	2309	HH22	ARG	X	148	43.505	53.514	57.595	0.00	0.00
ATOM	2310	C	ARG	X	148	48.341	48.590	53.320	0.00	0.00
ATOM	2311	O	ARG	X	148	47.189	48.139	53.026	0.00	0.00
ATOM	2312	N	VAL	X	149	49.451	47.883	53.351	0.00	0.00
ATOM	2313	H	VAL	X	149	50.333	48.371	53.425	0.00	0.00
ATOM	2314	CA	VAL	X	149	49.466	46.401	53.200	0.00	0.00

ATOM	2315	HA	VAL	X	149	48.439	46.161	52.925	0.00	0.00
ATOM	2316	CB	VAL	X	149	50.411	46.076	52.081	0.00	0.00
ATOM	2317	HB	VAL	X	149	50.617	45.023	52.272	0.00	0.00
ATOM	2318	CG1	VAL	X	149	49.590	46.237	50.737	0.00	0.00
ATOM	2319	HG11	VAL	X	149	49.321	47.292	50.780	0.00	0.00
ATOM	2320	HG12	VAL	X	149	50.276	45.915	49.953	0.00	0.00
ATOM	2321	HG13	VAL	X	149	48.711	45.597	50.813	0.00	0.00
ATOM	2322	CG2	VAL	X	149	51.716	46.843	52.216	0.00	0.00
ATOM	2323	HG21	VAL	X	149	51.545	47.919	52.178	0.00	0.00
ATOM	2324	HG22	VAL	X	149	52.161	46.659	53.193	0.00	0.00
ATOM	2325	HG23	VAL	X	149	52.312	46.533	51.358	0.00	0.00
ATOM	2326	C	VAL	X	149	49.978	45.715	54.507	0.00	0.00
ATOM	2327	O	VAL	X	149	50.542	46.355	55.393	0.00	0.00
ATOM	2328	N	GLY	X	150	49.622	44.417	54.653	0.00	0.00
ATOM	2329	H	GLY	X	150	49.023	43.984	53.964	0.00	0.00
ATOM	2330	CA	GLY	X	150	49.922	43.603	55.809	0.00	0.00
ATOM	2331	HA2	GLY	X	150	49.937	42.551	55.458	0.00	0.00
ATOM	2332	HA3	GLY	X	150	50.910	43.956	56.185	0.00	0.00
ATOM	2333	C	GLY	X	150	48.916	43.780	56.920	0.00	0.00
ATOM	2334	O	GLY	X	150	47.835	44.294	56.640	0.00	0.00
ATOM	2335	N	ALA	X	151	49.297	43.508	58.191	0.00	0.00
ATOM	2336	H	ALA	X	151	50.262	43.267	58.366	0.00	0.00
ATOM	2337	CA	ALA	X	151	48.463	43.673	59.309	0.00	0.00
ATOM	2338	HA	ALA	X	151	47.594	43.039	59.131	0.00	0.00
ATOM	2339	CB	ALA	X	151	49.283	43.285	60.618	0.00	0.00
ATOM	2340	HB1	ALA	X	151	50.097	44.006	60.691	0.00	0.00
ATOM	2341	HB2	ALA	X	151	48.507	43.310	61.383	0.00	0.00
ATOM	2342	HB3	ALA	X	151	49.649	42.260	60.557	0.00	0.00
ATOM	2343	C	ALA	X	151	47.882	45.077	59.389	0.00	0.00
ATOM	2344	O	ALA	X	151	46.637	45.220	59.625	0.00	0.00
ATOM	2345	N	PHE	X	152	48.654	46.152	59.176	0.00	0.00
ATOM	2346	H	PHE	X	152	49.544	45.949	58.743	0.00	0.00
ATOM	2347	CA	PHE	X	152	48.345	47.557	59.287	0.00	0.00
ATOM	2348	HA	PHE	X	152	48.012	47.690	60.317	0.00	0.00
ATOM	2349	CB	PHE	X	152	49.515	48.457	59.027	0.00	0.00
ATOM	2350	HB2	PHE	X	152	49.948	48.297	58.040	0.00	0.00
ATOM	2351	HB3	PHE	X	152	49.213	49.505	59.013	0.00	0.00
ATOM	2352	CG	PHE	X	152	50.757	48.151	59.863	0.00	0.00
ATOM	2353	CD1	PHE	X	152	51.594	47.100	59.477	0.00	0.00
ATOM	2354	HD1	PHE	X	152	51.453	46.507	58.585	0.00	0.00
ATOM	2355	CE1	PHE	X	152	52.746	46.793	60.322	0.00	0.00
ATOM	2356	HE1	PHE	X	152	53.369	46.018	59.901	0.00	0.00
ATOM	2357	CZ	PHE	X	152	52.932	47.370	61.582	0.00	0.00
ATOM	2358	HZ	PHE	X	152	53.755	47.149	62.246	0.00	0.00
ATOM	2359	CE2	PHE	X	152	51.984	48.334	61.959	0.00	0.00
ATOM	2360	HE2	PHE	X	152	52.080	48.848	62.905	0.00	0.00
ATOM	2361	CD2	PHE	X	152	50.916	48.744	61.138	0.00	0.00
ATOM	2362	HD2	PHE	X	152	50.114	49.434	61.353	0.00	0.00
ATOM	2363	C	PHE	X	152	47.136	48.051	58.489	0.00	0.00
ATOM	2364	O	PHE	X	152	46.487	48.979	58.974	0.00	0.00
ATOM	2365	N	GLY	X	153	46.935	47.418	57.354	0.00	0.00
ATOM	2366	H	GLY	X	153	47.683	46.770	57.155	0.00	0.00
ATOM	2367	CA	GLY	X	153	45.791	47.607	56.479	0.00	0.00
ATOM	2368	HA2	GLY	X	153	45.304	48.573	56.603	0.00	0.00
ATOM	2369	HA3	GLY	X	153	46.165	47.762	55.446	0.00	0.00
ATOM	2370	C	GLY	X	153	44.661	46.575	56.537	0.00	0.00
ATOM	2371	O	GLY	X	153	43.604	46.905	56.137	0.00	0.00
ATOM	2372	N	PHE	X	154	44.902	45.308	57.004	0.00	0.00
ATOM	2373	H	PHE	X	154	45.858	45.058	57.210	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.971	44.211	56.933	0.00	0.00
ATOM	2375	HA	PHE	X	154	43.009	44.661	56.686	0.00	0.00
ATOM	2376	CB	PHE	X	154	44.465	43.281	55.819	0.00	0.00
ATOM	2377	HB2	PHE	X	154	45.499	42.986	55.998	0.00	0.00
ATOM	2378	HB3	PHE	X	154	43.890	42.355	55.812	0.00	0.00
ATOM	2379	CG	PHE	X	154	44.347	43.917	54.468	0.00	0.00
ATOM	2380	CD1	PHE	X	154	45.519	44.378	53.831	0.00	0.00
ATOM	2381	HD1	PHE	X	154	46.522	44.324	54.228	0.00	0.00
ATOM	2382	CE1	PHE	X	154	45.384	45.133	52.651	0.00	0.00
ATOM	2383	HE1	PHE	X	154	46.253	45.505	52.128	0.00	0.00
ATOM	2384	CZ	PHE	X	154	44.083	45.480	52.173	0.00	0.00

ATOM	2385	HZ	PHE	X	154	43.989	46.074	51.277	0.00	0.00
ATOM	2386	CE2	PHE	X	154	42.937	44.960	52.856	0.00	0.00
ATOM	2387	HE2	PHE	X	154	41.980	45.221	52.430	0.00	0.00
ATOM	2388	CD2	PHE	X	154	43.076	44.193	53.978	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.218	44.010	54.607	0.00	0.00
ATOM	2390	C	PHE	X	154	43.730	43.395	58.217	0.00	0.00
ATOM	2391	O	PHE	X	154	42.947	42.465	58.129	0.00	0.00
ATOM	2392	N	LEU	X	155	44.285	43.777	59.393	0.00	0.00
ATOM	2393	H	LEU	X	155	44.845	44.617	59.423	0.00	0.00
ATOM	2394	CA	LEU	X	155	43.787	43.331	60.679	0.00	0.00
ATOM	2395	HA	LEU	X	155	43.719	42.244	60.725	0.00	0.00
ATOM	2396	CB	LEU	X	155	44.880	43.648	61.718	0.00	0.00
ATOM	2397	HB2	LEU	X	155	45.877	43.342	61.402	0.00	0.00
ATOM	2398	HB3	LEU	X	155	44.954	44.728	61.849	0.00	0.00
ATOM	2399	CG	LEU	X	155	44.805	42.984	63.120	0.00	0.00
ATOM	2400	HG	LEU	X	155	44.626	41.915	63.002	0.00	0.00
ATOM	2401	CD1	LEU	X	155	46.136	43.041	63.905	0.00	0.00
ATOM	2402	HD11	LEU	X	155	46.198	44.083	64.217	0.00	0.00
ATOM	2403	HD12	LEU	X	155	46.072	42.452	64.820	0.00	0.00
ATOM	2404	HD13	LEU	X	155	46.986	42.723	63.300	0.00	0.00
ATOM	2405	CD2	LEU	X	155	43.743	43.609	64.070	0.00	0.00
ATOM	2406	HD21	LEU	X	155	42.706	43.496	63.752	0.00	0.00
ATOM	2407	HD22	LEU	X	155	43.701	43.168	65.066	0.00	0.00
ATOM	2408	HD23	LEU	X	155	43.876	44.676	64.245	0.00	0.00
ATOM	2409	C	LEU	X	155	42.446	43.859	61.087	0.00	0.00
ATOM	2410	O	LEU	X	155	42.162	45.042	61.074	0.00	0.00
ATOM	2411	N	ALA	X	156	41.627	42.909	61.608	0.00	0.00
ATOM	2412	H	ALA	X	156	41.867	41.929	61.577	0.00	0.00
ATOM	2413	CA	ALA	X	156	40.217	43.139	62.057	0.00	0.00
ATOM	2414	HA	ALA	X	156	40.007	44.188	62.265	0.00	0.00
ATOM	2415	CB	ALA	X	156	39.247	42.608	60.972	0.00	0.00
ATOM	2416	HB1	ALA	X	156	39.173	43.238	60.086	0.00	0.00
ATOM	2417	HB2	ALA	X	156	39.555	41.596	60.710	0.00	0.00
ATOM	2418	HB3	ALA	X	156	38.283	42.565	61.479	0.00	0.00
ATOM	2419	C	ALA	X	156	39.950	42.374	63.272	0.00	0.00
ATOM	2420	O	ALA	X	156	40.471	41.320	63.422	0.00	0.00
ATOM	2421	N	LEU	X	157	39.018	42.887	64.045	0.00	0.00
ATOM	2422	H	LEU	X	157	38.711	43.825	63.830	0.00	0.00
ATOM	2423	CA	LEU	X	157	38.620	42.241	65.276	0.00	0.00
ATOM	2424	HA	LEU	X	157	38.800	41.167	65.226	0.00	0.00
ATOM	2425	CB	LEU	X	157	39.418	42.828	66.492	0.00	0.00
ATOM	2426	HB2	LEU	X	157	40.427	43.107	66.188	0.00	0.00
ATOM	2427	HB3	LEU	X	157	38.871	43.679	66.897	0.00	0.00
ATOM	2428	CG	LEU	X	157	39.445	41.745	67.547	0.00	0.00
ATOM	2429	HG	LEU	X	157	38.538	41.144	67.607	0.00	0.00
ATOM	2430	CD1	LEU	X	157	40.589	40.782	67.177	0.00	0.00
ATOM	2431	HD11	LEU	X	157	40.935	40.155	67.999	0.00	0.00
ATOM	2432	HD12	LEU	X	157	40.247	40.139	66.366	0.00	0.00
ATOM	2433	HD13	LEU	X	157	41.482	41.335	66.888	0.00	0.00
ATOM	2434	CD2	LEU	X	157	39.543	42.343	68.963	0.00	0.00
ATOM	2435	HD21	LEU	X	157	38.776	43.102	69.116	0.00	0.00
ATOM	2436	HD22	LEU	X	157	39.307	41.451	69.543	0.00	0.00
ATOM	2437	HD23	LEU	X	157	40.541	42.711	69.201	0.00	0.00
ATOM	2438	C	LEU	X	157	37.088	42.334	65.489	0.00	0.00
ATOM	2439	O	LEU	X	157	36.602	43.083	66.312	0.00	0.00
ATOM	2440	N	PRO	X	158	36.340	41.561	64.743	0.00	0.00
ATOM	2441	CD	PRO	X	158	36.827	40.745	63.612	0.00	0.00
ATOM	2442	HD2	PRO	X	158	37.395	39.870	63.926	0.00	0.00
ATOM	2443	HD3	PRO	X	158	37.315	41.326	62.829	0.00	0.00
ATOM	2444	CG	PRO	X	158	35.563	40.059	63.117	0.00	0.00
ATOM	2445	HG2	PRO	X	158	35.348	39.108	63.604	0.00	0.00
ATOM	2446	HG3	PRO	X	158	35.655	39.861	62.049	0.00	0.00
ATOM	2447	CB	PRO	X	158	34.438	41.022	63.329	0.00	0.00
ATOM	2448	HB2	PRO	X	158	33.498	40.503	63.516	0.00	0.00
ATOM	2449	HB3	PRO	X	158	34.278	41.658	62.458	0.00	0.00
ATOM	2450	CA	PRO	X	158	34.852	41.677	64.630	0.00	0.00
ATOM	2451	HA	PRO	X	158	34.530	42.717	64.691	0.00	0.00
ATOM	2452	C	PRO	X	158	34.201	40.971	65.798	0.00	0.00
ATOM	2453	O	PRO	X	158	34.808	40.006	66.344	0.00	0.00
ATOM	2454	N	GLY	X	159	33.079	41.521	66.241	0.00	0.00

ATOM	2455	H	GLY	X	159	32.655	42.237	65.670	0.00	0.00
ATOM	2456	CA	GLY	X	159	32.409	41.325	67.558	0.00	0.00
ATOM	2457	HA2	GLY	X	159	31.312	41.101	67.384	0.00	0.00
ATOM	2458	HA3	GLY	X	159	32.963	40.634	68.132	0.00	0.00
ATOM	2459	C	GLY	X	159	32.389	42.673	68.337	0.00	0.00
ATOM	2460	O	GLY	X	159	32.081	42.658	69.528	0.00	0.00
ATOM	2461	N	SER	X	160	32.920	43.774	67.841	0.00	0.00
ATOM	2462	H	SER	X	160	33.008	43.939	66.849	0.00	0.00
ATOM	2463	CA	SER	X	160	33.137	45.025	68.608	0.00	0.00
ATOM	2464	HA	SER	X	160	32.259	45.264	69.208	0.00	0.00
ATOM	2465	CB	SER	X	160	34.292	44.912	69.606	0.00	0.00
ATOM	2466	HB2	SER	X	160	34.523	45.773	70.234	0.00	0.00
ATOM	2467	HB3	SER	X	160	34.115	44.069	70.274	0.00	0.00
ATOM	2468	OG	SER	X	160	35.506	44.706	68.949	0.00	0.00
ATOM	2469	HG	SER	X	160	35.802	43.827	69.197	0.00	0.00
ATOM	2470	C	SER	X	160	33.310	46.219	67.640	0.00	0.00
ATOM	2471	O	SER	X	160	33.151	45.954	66.442	0.00	0.00
ATOM	2472	N	ARG	X	161	33.568	47.430	68.027	0.00	0.00
ATOM	2473	H	ARG	X	161	33.676	47.585	69.019	0.00	0.00
ATOM	2474	CA	ARG	X	161	33.612	48.691	67.168	0.00	0.00
ATOM	2475	HA	ARG	X	161	33.568	48.436	66.109	0.00	0.00
ATOM	2476	CB	ARG	X	161	32.401	49.564	67.488	0.00	0.00
ATOM	2477	HB2	ARG	X	161	31.498	48.993	67.272	0.00	0.00
ATOM	2478	HB3	ARG	X	161	32.344	49.872	68.532	0.00	0.00
ATOM	2479	CG	ARG	X	161	32.413	50.769	66.519	0.00	0.00
ATOM	2480	HG2	ARG	X	161	33.384	51.260	66.454	0.00	0.00
ATOM	2481	HG3	ARG	X	161	32.220	50.398	65.513	0.00	0.00
ATOM	2482	CD	ARG	X	161	31.392	51.862	66.900	0.00	0.00
ATOM	2483	HD2	ARG	X	161	31.410	52.639	66.136	0.00	0.00
ATOM	2484	HD3	ARG	X	161	30.445	51.366	66.688	0.00	0.00
ATOM	2485	NE	ARG	X	161	31.564	52.301	68.248	0.00	0.00
ATOM	2486	HE	ARG	X	161	31.034	51.904	69.010	0.00	0.00
ATOM	2487	CZ	ARG	X	161	32.572	53.102	68.601	0.00	0.00
ATOM	2488	NH1	ARG	X	161	33.519	53.646	67.925	0.00	0.00
ATOM	2489	HH11	ARG	X	161	33.809	53.434	66.981	0.00	0.00
ATOM	2490	HH12	ARG	X	161	34.192	54.111	68.518	0.00	0.00
ATOM	2491	NH2	ARG	X	161	32.744	53.207	69.891	0.00	0.00
ATOM	2492	HH21	ARG	X	161	32.074	52.936	70.597	0.00	0.00
ATOM	2493	HH22	ARG	X	161	33.475	53.826	70.210	0.00	0.00
ATOM	2494	C	ARG	X	161	35.035	49.307	67.343	0.00	0.00
ATOM	2495	O	ARG	X	161	35.166	50.454	67.795	0.00	0.00
ATOM	2496	N	GLU	X	162	36.085	48.483	67.034	0.00	0.00
ATOM	2497	H	GLU	X	162	35.843	47.576	66.660	0.00	0.00
ATOM	2498	CA	GLU	X	162	37.492	48.828	67.308	0.00	0.00
ATOM	2499	HA	GLU	X	162	37.537	49.806	67.786	0.00	0.00
ATOM	2500	CB	GLU	X	162	38.136	47.912	68.403	0.00	0.00
ATOM	2501	HB2	GLU	X	162	38.296	46.898	68.037	0.00	0.00
ATOM	2502	HB3	GLU	X	162	39.096	48.393	68.589	0.00	0.00
ATOM	2503	CG	GLU	X	162	37.330	47.856	69.705	0.00	0.00
ATOM	2504	HG2	GLU	X	162	36.359	47.464	69.401	0.00	0.00
ATOM	2505	HG3	GLU	X	162	37.752	47.111	70.380	0.00	0.00
ATOM	2506	CD	GLU	X	162	37.189	49.139	70.462	0.00	0.00
ATOM	2507	OE1	GLU	X	162	36.177	49.301	71.188	0.00	0.00
ATOM	2508	OE2	GLU	X	162	38.107	49.970	70.460	0.00	0.00
ATOM	2509	C	GLU	X	162	38.253	48.837	65.967	0.00	0.00
ATOM	2510	O	GLU	X	162	38.413	49.901	65.341	0.00	0.00
ATOM	2511	N	ALA	X	163	38.670	47.644	65.592	0.00	0.00
ATOM	2512	H	ALA	X	163	38.511	46.809	66.137	0.00	0.00
ATOM	2513	CA	ALA	X	163	39.553	47.466	64.434	0.00	0.00
ATOM	2514	HA	ALA	X	163	40.141	48.306	64.064	0.00	0.00
ATOM	2515	CB	ALA	X	163	40.625	46.421	64.887	0.00	0.00
ATOM	2516	HB1	ALA	X	163	41.319	46.913	65.569	0.00	0.00
ATOM	2517	HB2	ALA	X	163	40.225	45.582	65.455	0.00	0.00
ATOM	2518	HB3	ALA	X	163	41.264	46.044	64.088	0.00	0.00
ATOM	2519	C	ALA	X	163	38.624	46.772	63.318	0.00	0.00
ATOM	2520	O	ALA	X	163	38.148	45.651	63.635	0.00	0.00
ATOM	2521	N	PRO	X	164	38.406	47.399	62.131	0.00	0.00
ATOM	2522	CD	PRO	X	164	38.578	48.807	61.919	0.00	0.00
ATOM	2523	HD2	PRO	X	164	39.637	49.066	61.928	0.00	0.00
ATOM	2524	HD3	PRO	X	164	38.090	49.327	62.743	0.00	0.00

ATOM	2525	CG	PRO	X	164	37.875	49.142	60.612	0.00	0.00
ATOM	2526	HG2	PRO	X	164	38.594	49.071	59.796	0.00	0.00
ATOM	2527	HG3	PRO	X	164	37.527	50.162	60.780	0.00	0.00
ATOM	2528	CB	PRO	X	164	36.768	48.174	60.606	0.00	0.00
ATOM	2529	HB2	PRO	X	164	36.395	48.011	59.595	0.00	0.00
ATOM	2530	HB3	PRO	X	164	35.982	48.461	61.305	0.00	0.00
ATOM	2531	CA	PRO	X	164	37.395	46.904	61.225	0.00	0.00
ATOM	2532	HA	PRO	X	164	36.620	46.454	61.846	0.00	0.00
ATOM	2533	C	PRO	X	164	37.906	45.980	60.106	0.00	0.00
ATOM	2534	O	PRO	X	164	37.062	45.086	59.746	0.00	0.00
ATOM	2535	N	GLY	X	165	39.209	46.161	59.576	0.00	0.00
ATOM	2536	H	GLY	X	165	39.705	46.933	59.999	0.00	0.00
ATOM	2537	CA	GLY	X	165	39.642	45.589	58.362	0.00	0.00
ATOM	2538	HA2	GLY	X	165	40.756	45.370	58.382	0.00	0.00
ATOM	2539	HA3	GLY	X	165	39.149	44.671	58.032	0.00	0.00
ATOM	2540	C	GLY	X	165	39.419	46.497	57.237	0.00	0.00
ATOM	2541	O	GLY	X	165	38.758	47.515	57.279	0.00	0.00
ATOM	2542	N	ASN	X	166	39.972	46.100	56.073	0.00	0.00
ATOM	2543	H	ASN	X	166	40.327	45.156	56.131	0.00	0.00
ATOM	2544	CA	ASN	X	166	39.772	46.586	54.753	0.00	0.00
ATOM	2545	HA	ASN	X	166	40.368	45.918	54.130	0.00	0.00
ATOM	2546	CB	ASN	X	166	38.298	46.540	54.247	0.00	0.00
ATOM	2547	HB2	ASN	X	166	37.635	47.157	54.854	0.00	0.00
ATOM	2548	HB3	ASN	X	166	38.229	46.974	53.249	0.00	0.00
ATOM	2549	CG	ASN	X	166	37.697	45.093	54.276	0.00	0.00
ATOM	2550	OD1	ASN	X	166	38.387	44.152	53.830	0.00	0.00
ATOM	2551	ND2	ASN	X	166	36.566	44.917	54.859	0.00	0.00
ATOM	2552	HD21	ASN	X	166	36.140	44.013	54.709	0.00	0.00
ATOM	2553	HD22	ASN	X	166	36.085	45.631	55.387	0.00	0.00
ATOM	2554	C	ASN	X	166	40.392	48.022	54.513	0.00	0.00
ATOM	2555	O	ASN	X	166	40.140	48.629	53.425	0.00	0.00
ATOM	2556	N	VAL	X	167	41.043	48.676	55.474	0.00	0.00
ATOM	2557	H	VAL	X	167	41.215	48.136	56.310	0.00	0.00
ATOM	2558	CA	VAL	X	167	41.310	50.090	55.392	0.00	0.00
ATOM	2559	HA	VAL	X	167	40.385	50.584	55.093	0.00	0.00
ATOM	2560	CB	VAL	X	167	41.716	50.628	56.823	0.00	0.00
ATOM	2561	HB	VAL	X	167	41.815	51.714	56.825	0.00	0.00
ATOM	2562	CG1	VAL	X	167	40.606	50.248	57.744	0.00	0.00
ATOM	2563	HG11	VAL	X	167	40.633	50.711	58.731	0.00	0.00
ATOM	2564	HG12	VAL	X	167	39.669	50.443	57.221	0.00	0.00
ATOM	2565	HG13	VAL	X	167	40.560	49.203	58.051	0.00	0.00
ATOM	2566	CG2	VAL	X	167	43.196	50.183	57.345	0.00	0.00
ATOM	2567	HG21	VAL	X	167	43.437	50.608	58.320	0.00	0.00
ATOM	2568	HG22	VAL	X	167	43.203	49.094	57.392	0.00	0.00
ATOM	2569	HG23	VAL	X	167	43.950	50.435	56.599	0.00	0.00
ATOM	2570	C	VAL	X	167	42.422	50.444	54.422	0.00	0.00
ATOM	2571	O	VAL	X	167	42.369	51.562	53.947	0.00	0.00
ATOM	2572	N	GLY	X	168	43.177	49.438	53.988	0.00	0.00
ATOM	2573	H	GLY	X	168	43.167	48.607	54.562	0.00	0.00
ATOM	2574	CA	GLY	X	168	44.061	49.511	52.905	0.00	0.00
ATOM	2575	HA2	GLY	X	168	44.681	50.335	52.916	0.00	0.00
ATOM	2576	HA3	GLY	X	168	44.788	48.734	52.903	0.00	0.00
ATOM	2577	C	GLY	X	168	43.471	49.621	51.511	0.00	0.00
ATOM	2578	O	GLY	X	168	44.190	50.057	50.601	0.00	0.00
ATOM	2579	N	LEU	X	169	42.206	49.274	51.351	0.00	0.00
ATOM	2580	H	LEU	X	169	41.629	48.808	52.037	0.00	0.00
ATOM	2581	CA	LEU	X	169	41.464	49.729	50.223	0.00	0.00
ATOM	2582	HA	LEU	X	169	42.147	49.818	49.377	0.00	0.00
ATOM	2583	CB	LEU	X	169	40.403	48.676	49.886	0.00	0.00
ATOM	2584	HB2	LEU	X	169	39.687	48.604	50.704	0.00	0.00
ATOM	2585	HB3	LEU	X	169	39.848	49.005	49.008	0.00	0.00
ATOM	2586	CG	LEU	X	169	40.906	47.217	49.626	0.00	0.00
ATOM	2587	HG	LEU	X	169	41.367	46.885	50.557	0.00	0.00
ATOM	2588	CD1	LEU	X	169	39.717	46.324	49.165	0.00	0.00
ATOM	2589	HD11	LEU	X	169	40.100	45.357	48.839	0.00	0.00
ATOM	2590	HD12	LEU	X	169	38.925	46.259	49.911	0.00	0.00
ATOM	2591	HD13	LEU	X	169	39.391	46.651	48.177	0.00	0.00
ATOM	2592	CD2	LEU	X	169	42.147	47.038	48.659	0.00	0.00
ATOM	2593	HD21	LEU	X	169	41.926	47.514	47.703	0.00	0.00
ATOM	2594	HD22	LEU	X	169	42.982	47.577	49.106	0.00	0.00

ATOM	2595	HD23	LEU	X	169	42.272	45.956	48.693	0.00	0.00
ATOM	2596	C	LEU	X	169	40.764	50.977	50.490	0.00	0.00
ATOM	2597	O	LEU	X	169	40.333	51.675	49.547	0.00	0.00
ATOM	2598	N	LEU	X	170	40.483	51.411	51.761	0.00	0.00
ATOM	2599	H	LEU	X	170	40.899	50.952	52.559	0.00	0.00
ATOM	2600	CA	LEU	X	170	39.990	52.802	52.037	0.00	0.00
ATOM	2601	HA	LEU	X	170	39.206	53.014	51.310	0.00	0.00
ATOM	2602	CB	LEU	X	170	39.305	52.962	53.392	0.00	0.00
ATOM	2603	HB2	LEU	X	170	39.992	52.858	54.232	0.00	0.00
ATOM	2604	HB3	LEU	X	170	38.852	53.943	53.534	0.00	0.00
ATOM	2605	CG	LEU	X	170	38.207	51.904	53.544	0.00	0.00
ATOM	2606	HG	LEU	X	170	38.659	50.935	53.335	0.00	0.00
ATOM	2607	CD1	LEU	X	170	37.611	51.904	54.976	0.00	0.00
ATOM	2608	HD11	LEU	X	170	38.366	51.465	55.629	0.00	0.00
ATOM	2609	HD12	LEU	X	170	37.201	52.860	55.301	0.00	0.00
ATOM	2610	HD13	LEU	X	170	36.745	51.242	54.966	0.00	0.00
ATOM	2611	CD2	LEU	X	170	37.076	52.158	52.535	0.00	0.00
ATOM	2612	HD21	LEU	X	170	36.153	51.681	52.865	0.00	0.00
ATOM	2613	HD22	LEU	X	170	36.843	53.211	52.373	0.00	0.00
ATOM	2614	HD23	LEU	X	170	37.259	51.684	51.571	0.00	0.00
ATOM	2615	C	LEU	X	170	40.888	53.993	51.630	0.00	0.00
ATOM	2616	O	LEU	X	170	40.542	55.018	51.058	0.00	0.00
ATOM	2617	N	ASP	X	171	42.189	53.772	51.873	0.00	0.00
ATOM	2618	H	ASP	X	171	42.411	52.917	52.364	0.00	0.00
ATOM	2619	CA	ASP	X	171	43.331	54.543	51.380	0.00	0.00
ATOM	2620	HA	ASP	X	171	43.332	55.544	51.811	0.00	0.00
ATOM	2621	CB	ASP	X	171	44.613	53.831	51.810	0.00	0.00
ATOM	2622	HB2	ASP	X	171	44.620	52.858	51.319	0.00	0.00
ATOM	2623	HB3	ASP	X	171	45.505	54.231	51.328	0.00	0.00
ATOM	2624	CG	ASP	X	171	44.875	53.566	53.335	0.00	0.00
ATOM	2625	OD1	ASP	X	171	44.502	54.392	54.126	0.00	0.00
ATOM	2626	OD2	ASP	X	171	45.594	52.605	53.726	0.00	0.00
ATOM	2627	C	ASP	X	171	43.267	54.749	49.878	0.00	0.00
ATOM	2628	O	ASP	X	171	43.279	55.867	49.427	0.00	0.00
ATOM	2629	N	GLN	X	172	42.953	53.685	49.111	0.00	0.00
ATOM	2630	H	GLN	X	172	42.757	52.818	49.590	0.00	0.00
ATOM	2631	CA	GLN	X	172	42.798	53.722	47.708	0.00	0.00
ATOM	2632	HA	GLN	X	172	43.636	54.264	47.270	0.00	0.00
ATOM	2633	CB	GLN	X	172	42.738	52.307	47.171	0.00	0.00
ATOM	2634	HB2	GLN	X	172	41.878	51.798	47.607	0.00	0.00
ATOM	2635	HB3	GLN	X	172	42.676	52.319	46.083	0.00	0.00
ATOM	2636	CG	GLN	X	172	43.889	51.419	47.510	0.00	0.00
ATOM	2637	HG2	GLN	X	172	44.743	51.755	46.922	0.00	0.00
ATOM	2638	HG3	GLN	X	172	44.091	51.289	48.574	0.00	0.00
ATOM	2639	CD	GLN	X	172	43.728	50.075	46.820	0.00	0.00
ATOM	2640	OE1	GLN	X	172	43.041	49.984	45.775	0.00	0.00
ATOM	2641	NE2	GLN	X	172	44.235	49.051	47.382	0.00	0.00
ATOM	2642	HE21	GLN	X	172	44.123	48.164	46.912	0.00	0.00
ATOM	2643	HE22	GLN	X	172	44.823	49.139	48.198	0.00	0.00
ATOM	2644	C	GLN	X	172	41.516	54.404	47.308	0.00	0.00
ATOM	2645	O	GLN	X	172	41.608	55.246	46.406	0.00	0.00
ATOM	2646	N	ARG	X	173	40.379	54.224	48.004	0.00	0.00
ATOM	2647	H	ARG	X	173	40.396	53.476	48.682	0.00	0.00
ATOM	2648	CA	ARG	X	173	39.116	55.018	47.742	0.00	0.00
ATOM	2649	HA	ARG	X	173	38.747	54.847	46.731	0.00	0.00
ATOM	2650	CB	ARG	X	173	38.021	54.553	48.798	0.00	0.00
ATOM	2651	HB2	ARG	X	173	37.894	53.471	48.827	0.00	0.00
ATOM	2652	HB3	ARG	X	173	38.371	54.937	49.756	0.00	0.00
ATOM	2653	CG	ARG	X	173	36.617	55.137	48.474	0.00	0.00
ATOM	2654	HG2	ARG	X	173	36.738	56.210	48.327	0.00	0.00
ATOM	2655	HG3	ARG	X	173	36.446	54.820	47.445	0.00	0.00
ATOM	2656	CD	ARG	X	173	35.425	54.811	49.361	0.00	0.00
ATOM	2657	HD2	ARG	X	173	35.715	55.081	50.376	0.00	0.00
ATOM	2658	HD3	ARG	X	173	34.531	55.338	49.029	0.00	0.00
ATOM	2659	NE	ARG	X	173	35.088	53.361	49.238	0.00	0.00
ATOM	2660	HE	ARG	X	173	35.441	52.927	48.397	0.00	0.00
ATOM	2661	CZ	ARG	X	173	34.487	52.611	50.116	0.00	0.00
ATOM	2662	NH1	ARG	X	173	34.123	53.065	51.316	0.00	0.00
ATOM	2663	HH11	ARG	X	173	34.338	54.017	51.577	0.00	0.00
ATOM	2664	HH12	ARG	X	173	33.894	52.334	51.973	0.00	0.00

ATOM	2665	NH2	ARG	X	173	34.224	51.374	49.794	0.00	0.00
ATOM	2666	HH21	ARG	X	173	34.531	51.166	48.855	0.00	0.00
ATOM	2667	HH22	ARG	X	173	33.814	50.731	50.456	0.00	0.00
ATOM	2668	C	ARG	X	173	39.424	56.463	47.846	0.00	0.00
ATOM	2669	O	ARG	X	173	38.786	57.270	47.216	0.00	0.00
ATOM	2670	N	LEU	X	174	40.250	56.876	48.809	0.00	0.00
ATOM	2671	H	LEU	X	174	40.690	56.263	49.481	0.00	0.00
ATOM	2672	CA	LEU	X	174	40.423	58.286	49.136	0.00	0.00
ATOM	2673	HA	LEU	X	174	39.485	58.842	49.114	0.00	0.00
ATOM	2674	CB	LEU	X	174	40.954	58.359	50.569	0.00	0.00
ATOM	2675	HB2	LEU	X	174	40.245	57.813	51.191	0.00	0.00
ATOM	2676	HB3	LEU	X	174	41.825	57.705	50.613	0.00	0.00
ATOM	2677	CG	LEU	X	174	41.316	59.697	51.259	0.00	0.00
ATOM	2678	HG	LEU	X	174	42.048	60.288	50.708	0.00	0.00
ATOM	2679	CD1	LEU	X	174	39.991	60.545	51.248	0.00	0.00
ATOM	2680	HD11	LEU	X	174	39.630	60.715	50.233	0.00	0.00
ATOM	2681	HD12	LEU	X	174	39.238	60.237	51.973	0.00	0.00
ATOM	2682	HD13	LEU	X	174	40.338	61.557	51.456	0.00	0.00
ATOM	2683	CD2	LEU	X	174	41.751	59.424	52.689	0.00	0.00
ATOM	2684	HD21	LEU	X	174	40.905	59.121	53.305	0.00	0.00
ATOM	2685	HD22	LEU	X	174	42.567	58.702	52.647	0.00	0.00
ATOM	2686	HD23	LEU	X	174	42.104	60.391	53.046	0.00	0.00
ATOM	2687	C	LEU	X	174	41.322	58.937	48.070	0.00	0.00
ATOM	2688	O	LEU	X	174	41.190	60.105	47.820	0.00	0.00
ATOM	2689	N	ALA	X	175	42.200	58.220	47.381	0.00	0.00
ATOM	2690	H	ALA	X	175	42.179	57.224	47.546	0.00	0.00
ATOM	2691	CA	ALA	X	175	43.036	58.615	46.187	0.00	0.00
ATOM	2692	HA	ALA	X	175	43.374	59.649	46.252	0.00	0.00
ATOM	2693	CB	ALA	X	175	44.294	57.756	46.301	0.00	0.00
ATOM	2694	HB1	ALA	X	175	44.029	56.740	46.591	0.00	0.00
ATOM	2695	HB2	ALA	X	175	44.840	57.768	45.358	0.00	0.00
ATOM	2696	HB3	ALA	X	175	44.886	58.263	47.064	0.00	0.00
ATOM	2697	C	ALA	X	175	42.303	58.409	44.786	0.00	0.00
ATOM	2698	O	ALA	X	175	42.671	59.118	43.833	0.00	0.00
ATOM	2699	N	LEU	X	176	41.226	57.613	44.739	0.00	0.00
ATOM	2700	H	LEU	X	176	41.111	57.086	45.592	0.00	0.00
ATOM	2701	CA	LEU	X	176	40.190	57.566	43.630	0.00	0.00
ATOM	2702	HA	LEU	X	176	40.785	57.469	42.721	0.00	0.00
ATOM	2703	CB	LEU	X	176	39.325	56.359	43.791	0.00	0.00
ATOM	2704	HB2	LEU	X	176	38.860	56.346	44.777	0.00	0.00
ATOM	2705	HB3	LEU	X	176	38.494	56.624	43.138	0.00	0.00
ATOM	2706	CG	LEU	X	176	40.001	54.959	43.333	0.00	0.00
ATOM	2707	HG	LEU	X	176	40.792	54.925	44.082	0.00	0.00
ATOM	2708	CD1	LEU	X	176	39.167	53.770	43.551	0.00	0.00
ATOM	2709	HD11	LEU	X	176	38.769	53.759	44.565	0.00	0.00
ATOM	2710	HD12	LEU	X	176	38.302	53.743	42.889	0.00	0.00
ATOM	2711	HD13	LEU	X	176	39.790	52.876	43.525	0.00	0.00
ATOM	2712	CD2	LEU	X	176	40.679	55.011	41.971	0.00	0.00
ATOM	2713	HD21	LEU	X	176	41.525	55.699	41.961	0.00	0.00
ATOM	2714	HD22	LEU	X	176	41.147	54.039	41.821	0.00	0.00
ATOM	2715	HD23	LEU	X	176	40.033	55.368	41.169	0.00	0.00
ATOM	2716	C	LEU	X	176	39.474	58.883	43.566	0.00	0.00
ATOM	2717	O	LEU	X	176	39.495	59.592	42.558	0.00	0.00
ATOM	2718	N	GLN	X	177	38.916	59.352	44.698	0.00	0.00
ATOM	2719	H	GLN	X	177	39.007	58.725	45.485	0.00	0.00
ATOM	2720	CA	GLN	X	177	38.358	60.681	44.874	0.00	0.00
ATOM	2721	HA	GLN	X	177	37.546	60.776	44.153	0.00	0.00
ATOM	2722	CB	GLN	X	177	37.750	60.848	46.335	0.00	0.00
ATOM	2723	HB2	GLN	X	177	38.484	60.637	47.112	0.00	0.00
ATOM	2724	HB3	GLN	X	177	37.470	61.891	46.487	0.00	0.00
ATOM	2725	CG	GLN	X	177	36.532	59.967	46.679	0.00	0.00
ATOM	2726	HG2	GLN	X	177	35.728	60.265	46.006	0.00	0.00
ATOM	2727	HG3	GLN	X	177	36.640	58.905	46.459	0.00	0.00
ATOM	2728	CD	GLN	X	177	36.228	60.307	48.165	0.00	0.00
ATOM	2729	OE1	GLN	X	177	37.069	60.143	49.038	0.00	0.00
ATOM	2730	NE2	GLN	X	177	35.061	60.867	48.441	0.00	0.00
ATOM	2731	HE21	GLN	X	177	34.862	61.138	49.394	0.00	0.00
ATOM	2732	HE22	GLN	X	177	34.679	61.364	47.649	0.00	0.00
ATOM	2733	C	GLN	X	177	39.369	61.800	44.487	0.00	0.00
ATOM	2734	O	GLN	X	177	39.057	62.788	43.808	0.00	0.00

ATOM	2735	N	TRP	X	178	40.621	61.637	44.916	0.00	0.00
ATOM	2736	H	TRP	X	178	40.715	61.066	45.745	0.00	0.00
ATOM	2737	CA	TRP	X	178	41.615	62.676	44.672	0.00	0.00
ATOM	2738	HA	TRP	X	178	41.162	63.603	45.023	0.00	0.00
ATOM	2739	CB	TRP	X	178	42.867	62.413	45.471	0.00	0.00
ATOM	2740	HB2	TRP	X	178	42.624	62.062	46.473	0.00	0.00
ATOM	2741	HB3	TRP	X	178	43.473	61.606	45.060	0.00	0.00
ATOM	2742	CG	TRP	X	178	43.775	63.589	45.690	0.00	0.00
ATOM	2743	CD1	TRP	X	178	43.689	64.313	46.793	0.00	0.00
ATOM	2744	HD1	TRP	X	178	42.901	64.249	47.528	0.00	0.00
ATOM	2745	NE1	TRP	X	178	44.562	65.375	46.677	0.00	0.00
ATOM	2746	HE1	TRP	X	178	44.618	66.012	47.459	0.00	0.00
ATOM	2747	CE2	TRP	X	178	45.325	65.278	45.564	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	46.443	66.058	45.088	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	46.813	66.869	45.698	0.00	0.00
ATOM	2750	CH2	TRP	X	178	46.994	65.712	43.848	0.00	0.00
ATOM	2751	HH2	TRP	X	178	47.778	66.343	43.457	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	46.506	64.606	43.136	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	46.907	64.370	42.162	0.00	0.00
ATOM	2754	CE3	TRP	X	178	45.333	63.855	43.542	0.00	0.00
ATOM	2755	HE3	TRP	X	178	44.930	63.032	42.969	0.00	0.00
ATOM	2756	CD2	TRP	X	178	44.761	64.169	44.797	0.00	0.00
ATOM	2757	C	TRP	X	178	42.040	62.791	43.226	0.00	0.00
ATOM	2758	O	TRP	X	178	42.085	63.870	42.756	0.00	0.00
ATOM	2759	N	VAL	X	179	42.042	61.630	42.429	0.00	0.00
ATOM	2760	H	VAL	X	179	41.879	60.716	42.829	0.00	0.00
ATOM	2761	CA	VAL	X	179	42.132	61.689	40.975	0.00	0.00
ATOM	2762	HA	VAL	X	179	42.999	62.336	40.846	0.00	0.00
ATOM	2763	CB	VAL	X	179	42.211	60.256	40.371	0.00	0.00
ATOM	2764	HB	VAL	X	179	41.807	59.516	41.063	0.00	0.00
ATOM	2765	CG1	VAL	X	179	41.607	60.145	38.988	0.00	0.00
ATOM	2766	HG11	VAL	X	179	41.924	60.762	38.147	0.00	0.00
ATOM	2767	HG12	VAL	X	179	41.542	59.070	38.823	0.00	0.00
ATOM	2768	HG13	VAL	X	179	40.552	60.415	39.030	0.00	0.00
ATOM	2769	CG2	VAL	X	179	43.707	59.812	40.277	0.00	0.00
ATOM	2770	HG21	VAL	X	179	44.100	59.667	41.283	0.00	0.00
ATOM	2771	HG22	VAL	X	179	43.698	58.831	39.801	0.00	0.00
ATOM	2772	HG23	VAL	X	179	44.347	60.550	39.793	0.00	0.00
ATOM	2773	C	VAL	X	179	40.979	62.559	40.447	0.00	0.00
ATOM	2774	O	VAL	X	179	41.144	63.442	39.653	0.00	0.00
ATOM	2775	N	GLN	X	180	39.761	62.330	40.889	0.00	0.00
ATOM	2776	H	GLN	X	180	39.645	61.500	41.452	0.00	0.00
ATOM	2777	CA	GLN	X	180	38.536	63.083	40.469	0.00	0.00
ATOM	2778	HA	GLN	X	180	38.522	63.024	39.381	0.00	0.00
ATOM	2779	CB	GLN	X	180	37.236	62.427	41.038	0.00	0.00
ATOM	2780	HB2	GLN	X	180	37.364	62.154	42.085	0.00	0.00
ATOM	2781	HB3	GLN	X	180	36.440	63.168	40.963	0.00	0.00
ATOM	2782	CG	GLN	X	180	36.784	61.136	40.372	0.00	0.00
ATOM	2783	HG2	GLN	X	180	37.758	60.676	40.208	0.00	0.00
ATOM	2784	HG3	GLN	X	180	36.065	60.493	40.879	0.00	0.00
ATOM	2785	CD	GLN	X	180	36.265	61.314	38.901	0.00	0.00
ATOM	2786	OE1	GLN	X	180	36.054	62.431	38.471	0.00	0.00
ATOM	2787	NE2	GLN	X	180	36.226	60.221	38.152	0.00	0.00
ATOM	2788	HE21	GLN	X	180	36.053	60.429	37.179	0.00	0.00
ATOM	2789	HE22	GLN	X	180	36.549	59.335	38.514	0.00	0.00
ATOM	2790	C	GLN	X	180	38.789	64.529	40.852	0.00	0.00
ATOM	2791	O	GLN	X	180	38.540	65.375	40.008	0.00	0.00
ATOM	2792	N	GLU	X	181	39.224	64.804	42.060	0.00	0.00
ATOM	2793	H	GLU	X	181	39.498	64.020	42.635	0.00	0.00
ATOM	2794	CA	GLU	X	181	39.469	66.117	42.546	0.00	0.00
ATOM	2795	HA	GLU	X	181	38.528	66.603	42.287	0.00	0.00
ATOM	2796	CB	GLU	X	181	39.807	65.997	44.042	0.00	0.00
ATOM	2797	HB2	GLU	X	181	39.129	65.283	44.509	0.00	0.00
ATOM	2798	HB3	GLU	X	181	40.843	65.659	44.073	0.00	0.00
ATOM	2799	CG	GLU	X	181	39.449	67.317	44.661	0.00	0.00
ATOM	2800	HG2	GLU	X	181	39.795	68.108	43.996	0.00	0.00
ATOM	2801	HG3	GLU	X	181	38.364	67.364	44.742	0.00	0.00
ATOM	2802	CD	GLU	X	181	40.114	67.462	46.007	0.00	0.00
ATOM	2803	OE1	GLU	X	181	39.291	67.353	46.968	0.00	0.00
ATOM	2804	OE2	GLU	X	181	41.224	67.962	46.233	0.00	0.00

ATOM	2805	C	GLU	X	181	40.545	66.897	41.689	0.00	0.00
ATOM	2806	O	GLU	X	181	40.253	67.991	41.254	0.00	0.00
ATOM	2807	N	ASN	X	182	41.683	66.284	41.353	0.00	0.00
ATOM	2808	H	ASN	X	182	41.753	65.320	41.646	0.00	0.00
ATOM	2809	CA	ASN	X	182	42.955	66.937	40.822	0.00	0.00
ATOM	2810	HA	ASN	X	182	42.546	67.926	40.618	0.00	0.00
ATOM	2811	CB	ASN	X	182	43.866	67.246	41.951	0.00	0.00
ATOM	2812	HB2	ASN	X	182	44.246	66.304	42.347	0.00	0.00
ATOM	2813	HB3	ASN	X	182	44.661	67.863	41.533	0.00	0.00
ATOM	2814	CG	ASN	X	182	43.285	68.116	43.071	0.00	0.00
ATOM	2815	OD1	ASN	X	182	43.089	69.333	43.000	0.00	0.00
ATOM	2816	ND2	ASN	X	182	43.094	67.449	44.203	0.00	0.00
ATOM	2817	HD21	ASN	X	182	42.555	67.904	44.926	0.00	0.00
ATOM	2818	HD22	ASN	X	182	43.331	66.477	44.343	0.00	0.00
ATOM	2819	C	ASN	X	182	43.710	66.430	39.590	0.00	0.00
ATOM	2820	O	ASN	X	182	44.592	67.224	39.094	0.00	0.00
ATOM	2821	N	VAL	X	183	43.407	65.244	38.991	0.00	0.00
ATOM	2822	H	VAL	X	183	42.661	64.642	39.306	0.00	0.00
ATOM	2823	CA	VAL	X	183	44.192	64.788	37.815	0.00	0.00
ATOM	2824	HA	VAL	X	183	45.175	64.705	38.280	0.00	0.00
ATOM	2825	CB	VAL	X	183	43.791	63.375	37.448	0.00	0.00
ATOM	2826	HB	VAL	X	183	43.543	62.904	38.400	0.00	0.00
ATOM	2827	CG1	VAL	X	183	42.564	63.321	36.614	0.00	0.00
ATOM	2828	HG11	VAL	X	183	42.338	62.262	36.491	0.00	0.00
ATOM	2829	HG12	VAL	X	183	41.684	63.758	37.086	0.00	0.00
ATOM	2830	HG13	VAL	X	183	42.718	63.652	35.587	0.00	0.00
ATOM	2831	CG2	VAL	X	183	44.973	62.626	36.848	0.00	0.00
ATOM	2832	HG21	VAL	X	183	44.672	61.584	36.741	0.00	0.00
ATOM	2833	HG22	VAL	X	183	45.184	63.024	35.855	0.00	0.00
ATOM	2834	HG23	VAL	X	183	45.789	62.694	37.568	0.00	0.00
ATOM	2835	C	VAL	X	183	44.264	65.805	36.703	0.00	0.00
ATOM	2836	O	VAL	X	183	45.204	65.757	35.934	0.00	0.00
ATOM	2837	N	ALA	X	184	43.178	66.635	36.484	0.00	0.00
ATOM	2838	H	ALA	X	184	42.457	66.572	37.189	0.00	0.00
ATOM	2839	CA	ALA	X	184	43.147	67.601	35.359	0.00	0.00
ATOM	2840	HA	ALA	X	184	43.263	67.078	34.410	0.00	0.00
ATOM	2841	CB	ALA	X	184	41.668	68.052	35.425	0.00	0.00
ATOM	2842	HB1	ALA	X	184	41.012	67.184	35.363	0.00	0.00
ATOM	2843	HB2	ALA	X	184	41.462	68.481	36.406	0.00	0.00
ATOM	2844	HB3	ALA	X	184	41.465	68.737	34.602	0.00	0.00
ATOM	2845	C	ALA	X	184	44.199	68.753	35.530	0.00	0.00
ATOM	2846	O	ALA	X	184	44.555	69.352	34.529	0.00	0.00
ATOM	2847	N	ALA	X	185	44.734	68.946	36.754	0.00	0.00
ATOM	2848	H	ALA	X	185	44.218	68.542	37.522	0.00	0.00
ATOM	2849	CA	ALA	X	185	45.818	69.922	36.904	0.00	0.00
ATOM	2850	HA	ALA	X	185	45.647	70.842	36.345	0.00	0.00
ATOM	2851	CB	ALA	X	185	45.793	70.311	38.369	0.00	0.00
ATOM	2852	HB1	ALA	X	185	46.211	69.609	39.091	0.00	0.00
ATOM	2853	HB2	ALA	X	185	46.313	71.261	38.485	0.00	0.00
ATOM	2854	HB3	ALA	X	185	44.751	70.424	38.668	0.00	0.00
ATOM	2855	C	ALA	X	185	47.149	69.434	36.360	0.00	0.00
ATOM	2856	O	ALA	X	185	47.978	70.281	35.992	0.00	0.00
ATOM	2857	N	PHE	X	186	47.308	68.124	36.280	0.00	0.00
ATOM	2858	H	PHE	X	186	46.553	67.599	36.699	0.00	0.00
ATOM	2859	CA	PHE	X	186	48.519	67.472	35.698	0.00	0.00
ATOM	2860	HA	PHE	X	186	49.445	68.037	35.806	0.00	0.00
ATOM	2861	CB	PHE	X	186	48.872	66.225	36.437	0.00	0.00
ATOM	2862	HB2	PHE	X	186	48.141	65.424	36.324	0.00	0.00
ATOM	2863	HB3	PHE	X	186	49.869	65.880	36.163	0.00	0.00
ATOM	2864	CG	PHE	X	186	49.061	66.429	37.885	0.00	0.00
ATOM	2865	CD1	PHE	X	186	48.102	65.992	38.811	0.00	0.00
ATOM	2866	HD1	PHE	X	186	47.269	65.405	38.452	0.00	0.00
ATOM	2867	CE1	PHE	X	186	48.222	66.280	40.178	0.00	0.00
ATOM	2868	HE1	PHE	X	186	47.453	65.967	40.869	0.00	0.00
ATOM	2869	CZ	PHE	X	186	49.379	66.894	40.692	0.00	0.00
ATOM	2870	HZ	PHE	X	186	49.519	67.069	41.749	0.00	0.00
ATOM	2871	CE2	PHE	X	186	50.408	67.240	39.828	0.00	0.00
ATOM	2872	HE2	PHE	X	186	51.243	67.764	40.269	0.00	0.00
ATOM	2873	CD2	PHE	X	186	50.217	67.043	38.440	0.00	0.00
ATOM	2874	HD2	PHE	X	186	50.898	67.344	37.658	0.00	0.00

ATOM	2875	C	PHE	X	186	48.308	67.151	34.230	0.00	0.00
ATOM	2876	O	PHE	X	186	49.271	67.068	33.432	0.00	0.00
ATOM	2877	N	GLY	X	187	47.046	67.049	33.706	0.00	0.00
ATOM	2878	H	GLY	X	187	46.302	67.382	34.302	0.00	0.00
ATOM	2879	CA	GLY	X	187	46.662	66.835	32.320	0.00	0.00
ATOM	2880	HA2	GLY	X	187	46.222	67.775	31.972	0.00	0.00
ATOM	2881	HA3	GLY	X	187	47.636	66.684	31.715	0.00	0.00
ATOM	2882	C	GLY	X	187	45.614	65.768	32.027	0.00	0.00
ATOM	2883	O	GLY	X	187	45.208	65.584	30.860	0.00	0.00
ATOM	2884	N	GLY	X	188	45.157	64.970	33.055	0.00	0.00
ATOM	2885	H	GLY	X	188	45.649	65.066	33.932	0.00	0.00
ATOM	2886	CA	GLY	X	188	44.224	63.910	32.773	0.00	0.00
ATOM	2887	HA2	GLY	X	188	44.615	63.294	31.943	0.00	0.00
ATOM	2888	HA3	GLY	X	188	44.179	63.358	33.667	0.00	0.00
ATOM	2889	C	GLY	X	188	42.827	64.362	32.429	0.00	0.00
ATOM	2890	O	GLY	X	188	42.438	65.456	32.774	0.00	0.00
ATOM	2891	N	ASP	X	189	41.960	63.542	31.831	0.00	0.00
ATOM	2892	H	ASP	X	189	42.326	62.656	31.512	0.00	0.00
ATOM	2893	CA	ASP	X	189	40.545	63.745	31.706	0.00	0.00
ATOM	2894	HA	ASP	X	189	40.293	64.786	31.908	0.00	0.00
ATOM	2895	CB	ASP	X	189	40.083	63.312	30.308	0.00	0.00
ATOM	2896	HB2	ASP	X	189	40.809	63.850	29.699	0.00	0.00
ATOM	2897	HB3	ASP	X	189	40.091	62.225	30.222	0.00	0.00
ATOM	2898	CG	ASP	X	189	38.637	63.639	29.953	0.00	0.00
ATOM	2899	OD1	ASP	X	189	38.355	63.447	28.744	0.00	0.00
ATOM	2900	OD2	ASP	X	189	37.901	64.098	30.836	0.00	0.00
ATOM	2901	C	ASP	X	189	39.883	62.917	32.816	0.00	0.00
ATOM	2902	O	ASP	X	189	39.830	61.699	32.767	0.00	0.00
ATOM	2903	N	PRO	X	190	39.371	63.517	33.948	0.00	0.00
ATOM	2904	CD	PRO	X	190	39.217	64.960	34.104	0.00	0.00
ATOM	2905	HD2	PRO	X	190	38.799	65.505	33.258	0.00	0.00
ATOM	2906	HD3	PRO	X	190	40.217	65.357	34.279	0.00	0.00
ATOM	2907	CG	PRO	X	190	38.318	65.073	35.260	0.00	0.00
ATOM	2908	HG2	PRO	X	190	37.295	65.105	34.884	0.00	0.00
ATOM	2909	HG3	PRO	X	190	38.404	65.980	35.858	0.00	0.00
ATOM	2910	CB	PRO	X	190	38.476	63.835	36.143	0.00	0.00
ATOM	2911	HB2	PRO	X	190	37.536	63.565	36.624	0.00	0.00
ATOM	2912	HB3	PRO	X	190	39.360	63.836	36.781	0.00	0.00
ATOM	2913	CA	PRO	X	190	38.676	62.805	35.067	0.00	0.00
ATOM	2914	HA	PRO	X	190	39.347	62.020	35.416	0.00	0.00
ATOM	2915	C	PRO	X	190	37.431	62.162	34.550	0.00	0.00
ATOM	2916	O	PRO	X	190	36.807	61.388	35.295	0.00	0.00
ATOM	2917	N	THR	X	191	36.990	62.491	33.311	0.00	0.00
ATOM	2918	H	THR	X	191	37.489	63.137	32.716	0.00	0.00
ATOM	2919	CA	THR	X	191	35.824	61.756	32.719	0.00	0.00
ATOM	2920	HA	THR	X	191	35.071	61.495	33.463	0.00	0.00
ATOM	2921	CB	THR	X	191	34.980	62.588	31.704	0.00	0.00
ATOM	2922	HB	THR	X	191	34.079	62.006	31.511	0.00	0.00
ATOM	2923	CG2	THR	X	191	34.569	63.898	32.308	0.00	0.00
ATOM	2924	HG21	THR	X	191	33.942	63.773	33.190	0.00	0.00
ATOM	2925	HG22	THR	X	191	35.467	64.453	32.581	0.00	0.00
ATOM	2926	HG23	THR	X	191	34.018	64.399	31.512	0.00	0.00
ATOM	2927	OG1	THR	X	191	35.642	62.820	30.441	0.00	0.00
ATOM	2928	HG1	THR	X	191	36.419	63.333	30.676	0.00	0.00
ATOM	2929	C	THR	X	191	36.151	60.430	31.959	0.00	0.00
ATOM	2930	O	THR	X	191	35.264	59.873	31.349	0.00	0.00
ATOM	2931	N	SER	X	192	37.432	59.950	32.022	0.00	0.00
ATOM	2932	H	SER	X	192	38.088	60.511	32.546	0.00	0.00
ATOM	2933	CA	SER	X	192	37.910	58.674	31.538	0.00	0.00
ATOM	2934	HA	SER	X	192	37.039	58.030	31.660	0.00	0.00
ATOM	2935	CB	SER	X	192	38.298	58.778	30.048	0.00	0.00
ATOM	2936	HB2	SER	X	192	37.520	59.271	29.465	0.00	0.00
ATOM	2937	HB3	SER	X	192	39.145	59.447	29.897	0.00	0.00
ATOM	2938	OG	SER	X	192	38.501	57.520	29.508	0.00	0.00
ATOM	2939	HG	SER	X	192	38.387	57.617	28.560	0.00	0.00
ATOM	2940	C	SER	X	192	39.064	57.925	32.285	0.00	0.00
ATOM	2941	O	SER	X	192	40.206	58.143	31.906	0.00	0.00
ATOM	2942	N	VAL	X	193	38.744	57.192	33.314	0.00	0.00
ATOM	2943	H	VAL	X	193	37.789	57.054	33.613	0.00	0.00
ATOM	2944	CA	VAL	X	193	39.689	56.747	34.309	0.00	0.00

ATOM	2945	HA	VAL	X	193	40.714	57.036	34.078	0.00	0.00
ATOM	2946	CB	VAL	X	193	39.392	57.303	35.744	0.00	0.00
ATOM	2947	HB	VAL	X	193	38.457	56.918	36.151	0.00	0.00
ATOM	2948	CG1	VAL	X	193	40.446	56.899	36.848	0.00	0.00
ATOM	2949	HG11	VAL	X	193	40.604	55.825	36.944	0.00	0.00
ATOM	2950	HG12	VAL	X	193	41.388	57.424	36.689	0.00	0.00
ATOM	2951	HG13	VAL	X	193	40.171	57.206	37.857	0.00	0.00
ATOM	2952	CG2	VAL	X	193	39.096	58.861	35.800	0.00	0.00
ATOM	2953	HG21	VAL	X	193	40.051	59.372	35.683	0.00	0.00
ATOM	2954	HG22	VAL	X	193	38.394	59.246	35.060	0.00	0.00
ATOM	2955	HG23	VAL	X	193	38.704	59.128	36.781	0.00	0.00
ATOM	2956	C	VAL	X	193	39.643	55.193	34.382	0.00	0.00
ATOM	2957	O	VAL	X	193	38.707	54.533	34.851	0.00	0.00
ATOM	2958	N	THR	X	194	40.820	54.616	34.072	0.00	0.00
ATOM	2959	H	THR	X	194	41.531	55.155	33.600	0.00	0.00
ATOM	2960	CA	THR	X	194	41.087	53.196	34.007	0.00	0.00
ATOM	2961	HA	THR	X	194	40.137	52.686	34.166	0.00	0.00
ATOM	2962	CB	THR	X	194	41.593	52.806	32.619	0.00	0.00
ATOM	2963	HB	THR	X	194	42.519	53.359	32.460	0.00	0.00
ATOM	2964	CG2	THR	X	194	41.892	51.355	32.419	0.00	0.00
ATOM	2965	HG21	THR	X	194	40.939	50.832	32.501	0.00	0.00
ATOM	2966	HG22	THR	X	194	42.368	51.171	31.456	0.00	0.00
ATOM	2967	HG23	THR	X	194	42.616	51.091	33.190	0.00	0.00
ATOM	2968	OG1	THR	X	194	40.724	53.149	31.585	0.00	0.00
ATOM	2969	HG1	THR	X	194	41.090	53.972	31.255	0.00	0.00
ATOM	2970	C	THR	X	194	41.930	52.714	35.143	0.00	0.00
ATOM	2971	O	THR	X	194	43.078	53.209	35.309	0.00	0.00
ATOM	2972	N	LEU	X	195	41.351	51.856	35.964	0.00	0.00
ATOM	2973	H	LEU	X	195	40.410	51.511	35.837	0.00	0.00
ATOM	2974	CA	LEU	X	195	42.242	51.242	36.913	0.00	0.00
ATOM	2975	HA	LEU	X	195	42.958	51.940	37.349	0.00	0.00
ATOM	2976	CB	LEU	X	195	41.362	50.923	38.123	0.00	0.00
ATOM	2977	HB2	LEU	X	195	40.807	50.016	37.881	0.00	0.00
ATOM	2978	HB3	LEU	X	195	42.097	50.625	38.870	0.00	0.00
ATOM	2979	CG	LEU	X	195	40.337	52.001	38.637	0.00	0.00
ATOM	2980	HG	LEU	X	195	39.575	52.065	37.860	0.00	0.00
ATOM	2981	CD1	LEU	X	195	39.905	51.413	39.970	0.00	0.00
ATOM	2982	HD11	LEU	X	195	39.421	52.122	40.641	0.00	0.00
ATOM	2983	HD12	LEU	X	195	39.339	50.509	39.742	0.00	0.00
ATOM	2984	HD13	LEU	X	195	40.792	51.101	40.522	0.00	0.00
ATOM	2985	CD2	LEU	X	195	41.020	53.282	38.812	0.00	0.00
ATOM	2986	HD21	LEU	X	195	41.829	53.178	39.536	0.00	0.00
ATOM	2987	HD22	LEU	X	195	41.322	53.621	37.821	0.00	0.00
ATOM	2988	HD23	LEU	X	195	40.259	53.935	39.240	0.00	0.00
ATOM	2989	C	LEU	X	195	42.901	49.994	36.523	0.00	0.00
ATOM	2990	O	LEU	X	195	42.236	49.145	35.879	0.00	0.00
ATOM	2991	N	PHE	X	196	44.200	49.810	36.763	0.00	0.00
ATOM	2992	H	PHE	X	196	44.796	50.506	37.188	0.00	0.00
ATOM	2993	CA	PHE	X	196	45.006	48.613	36.393	0.00	0.00
ATOM	2994	HA	PHE	X	196	44.282	47.803	36.308	0.00	0.00
ATOM	2995	CB	PHE	X	196	45.640	48.794	35.033	0.00	0.00
ATOM	2996	HB2	PHE	X	196	45.872	47.799	34.652	0.00	0.00
ATOM	2997	HB3	PHE	X	196	44.919	49.301	34.393	0.00	0.00
ATOM	2998	CG	PHE	X	196	46.869	49.582	35.035	0.00	0.00
ATOM	2999	CD1	PHE	X	196	46.876	50.949	35.505	0.00	0.00
ATOM	3000	HD1	PHE	X	196	45.988	51.388	35.935	0.00	0.00
ATOM	3001	CE1	PHE	X	196	48.027	51.779	35.373	0.00	0.00
ATOM	3002	HE1	PHE	X	196	48.026	52.797	35.734	0.00	0.00
ATOM	3003	CZ	PHE	X	196	49.167	51.209	34.747	0.00	0.00
ATOM	3004	HZ	PHE	X	196	50.071	51.773	34.569	0.00	0.00
ATOM	3005	CE2	PHE	X	196	49.134	49.945	34.159	0.00	0.00
ATOM	3006	HE2	PHE	X	196	50.031	49.726	33.599	0.00	0.00
ATOM	3007	CD2	PHE	X	196	47.990	49.100	34.345	0.00	0.00
ATOM	3008	HD2	PHE	X	196	47.927	48.091	33.966	0.00	0.00
ATOM	3009	C	PHE	X	196	45.928	48.157	37.518	0.00	0.00
ATOM	3010	O	PHE	X	196	46.322	48.944	38.356	0.00	0.00
ATOM	3011	N	GLY	X	197	46.296	46.869	37.599	0.00	0.00
ATOM	3012	H	GLY	X	197	45.813	46.241	36.973	0.00	0.00
ATOM	3013	CA	GLY	X	197	46.977	46.229	38.755	0.00	0.00
ATOM	3014	HA2	GLY	X	197	47.834	46.801	39.054	0.00	0.00

ATOM	3015	HA3	GLY	X	197	46.284	46.269	39.560	0.00	0.00
ATOM	3016	C	GLY	X	197	47.254	44.743	38.554	0.00	0.00
ATOM	3017	O	GLY	X	197	46.463	44.128	37.794	0.00	0.00
ATOM	3018	N	GLU	X	198	48.229	44.127	39.226	0.00	0.00
ATOM	3019	H	GLU	X	198	48.838	44.634	39.852	0.00	0.00
ATOM	3020	CA	GLU	X	198	48.454	42.713	39.154	0.00	0.00
ATOM	3021	HA	GLU	X	198	47.700	42.315	38.476	0.00	0.00
ATOM	3022	CB	GLU	X	198	49.763	42.322	38.522	0.00	0.00
ATOM	3023	HB2	GLU	X	198	49.676	41.310	38.127	0.00	0.00
ATOM	3024	HB3	GLU	X	198	50.012	42.935	37.655	0.00	0.00
ATOM	3025	CG	GLU	X	198	50.988	42.298	39.446	0.00	0.00
ATOM	3026	HG2	GLU	X	198	50.814	41.605	40.269	0.00	0.00
ATOM	3027	HG3	GLU	X	198	51.782	41.892	38.820	0.00	0.00
ATOM	3028	CD	GLU	X	198	51.432	43.660	40.050	0.00	0.00
ATOM	3029	OE1	GLU	X	198	50.679	44.399	40.722	0.00	0.00
ATOM	3030	OE2	GLU	X	198	52.666	44.049	39.757	0.00	0.00
ATOM	3031	C	GLU	X	198	48.150	41.921	40.486	0.00	0.00
ATOM	3032	O	GLU	X	198	48.337	42.435	41.574	0.00	0.00
ATOM	3033	N	XA1	X	199	47.662	40.696	40.391	0.00	0.00
ATOM	3034	CA	XA1	X	199	47.485	39.772	41.522	0.00	0.00
ATOM	3035	C	XA1	X	199	46.565	40.445	42.654	0.00	0.00
ATOM	3036	O	XA1	X	199	45.344	40.514	42.493	0.00	0.00
ATOM	3037	CB	XA1	X	199	48.795	39.465	42.158	0.00	0.00
ATOM	3038	OG	XA1	X	199	48.598	38.433	43.152	0.00	0.00
ATOM	3039	P1	XA1	X	199	49.620	38.376	44.351	0.00	0.00
ATOM	3040	O1	XA1	X	199	49.837	39.723	44.860	0.00	0.00
ATOM	3041	O2	XA1	X	199	50.837	37.766	43.869	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.756	37.239	45.348	0.00	0.00
ATOM	3043	H	XA1	X	199	47.665	40.269	39.475	0.00	0.00
ATOM	3044	HA	XA1	X	199	47.022	38.826	41.241	0.00	0.00
ATOM	3045	HB2	XA1	X	199	49.473	39.201	41.343	0.00	0.00
ATOM	3046	HB3	XA1	X	199	49.260	40.368	42.561	0.00	0.00
ATOM	3047	H11	XA1	X	199	49.237	37.078	46.315	0.00	0.00
ATOM	3048	H12	XA1	X	199	47.823	37.750	45.596	0.00	0.00
ATOM	3049	H13	XA1	X	199	48.645	36.258	44.882	0.00	0.00
ATOM	3050	N	ALA	X	200	47.106	40.873	43.813	0.00	0.00
ATOM	3051	H	ALA	X	200	48.102	40.791	43.961	0.00	0.00
ATOM	3052	CA	ALA	X	200	46.353	41.515	44.888	0.00	0.00
ATOM	3053	HA	ALA	X	200	45.395	40.995	44.887	0.00	0.00
ATOM	3054	CB	ALA	X	200	47.044	41.360	46.201	0.00	0.00
ATOM	3055	HB1	ALA	X	200	47.986	41.902	46.279	0.00	0.00
ATOM	3056	HB2	ALA	X	200	46.355	41.558	47.022	0.00	0.00
ATOM	3057	HB3	ALA	X	200	47.335	40.322	46.364	0.00	0.00
ATOM	3058	C	ALA	X	200	45.928	42.929	44.483	0.00	0.00
ATOM	3059	O	ALA	X	200	44.935	43.455	45.050	0.00	0.00
ATOM	3060	N	GLY	X	201	46.612	43.530	43.481	0.00	0.00
ATOM	3061	H	GLY	X	201	47.523	43.166	43.243	0.00	0.00
ATOM	3062	CA	GLY	X	201	46.225	44.726	42.767	0.00	0.00
ATOM	3063	HA2	GLY	X	201	45.952	45.486	43.452	0.00	0.00
ATOM	3064	HA3	GLY	X	201	47.078	45.147	42.202	0.00	0.00
ATOM	3065	C	GLY	X	201	45.065	44.431	41.816	0.00	0.00
ATOM	3066	O	GLY	X	201	44.019	45.127	41.796	0.00	0.00
ATOM	3067	N	ALA	X	202	45.189	43.326	41.017	0.00	0.00
ATOM	3068	H	ALA	X	202	46.043	42.792	41.087	0.00	0.00
ATOM	3069	CA	ALA	X	202	44.063	42.847	40.163	0.00	0.00
ATOM	3070	HA	ALA	X	202	43.700	43.594	39.457	0.00	0.00
ATOM	3071	CB	ALA	X	202	44.561	41.697	39.267	0.00	0.00
ATOM	3072	HB1	ALA	X	202	44.828	40.846	39.893	0.00	0.00
ATOM	3073	HB2	ALA	X	202	43.733	41.429	38.611	0.00	0.00
ATOM	3074	HB3	ALA	X	202	45.451	42.045	38.742	0.00	0.00
ATOM	3075	C	ALA	X	202	42.785	42.532	40.929	0.00	0.00
ATOM	3076	O	ALA	X	202	41.649	42.935	40.574	0.00	0.00
ATOM	3077	N	ALA	X	203	42.942	41.884	42.034	0.00	0.00
ATOM	3078	H	ALA	X	203	43.872	41.496	42.100	0.00	0.00
ATOM	3079	CA	ALA	X	203	41.977	41.660	43.035	0.00	0.00
ATOM	3080	HA	ALA	X	203	41.137	41.169	42.544	0.00	0.00
ATOM	3081	CB	ALA	X	203	42.534	40.735	44.131	0.00	0.00
ATOM	3082	HB1	ALA	X	203	41.778	40.555	44.896	0.00	0.00
ATOM	3083	HB2	ALA	X	203	42.857	39.849	43.584	0.00	0.00
ATOM	3084	HB3	ALA	X	203	43.402	41.164	44.631	0.00	0.00

ATOM	3085	C	ALA	X	203	41.478	42.955	43.672	0.00	0.00
ATOM	3086	O	ALA	X	203	40.267	43.101	43.715	0.00	0.00
ATOM	3087	N	SER	X	204	42.294	43.975	44.086	0.00	0.00
ATOM	3088	H	SER	X	204	43.264	43.724	43.963	0.00	0.00
ATOM	3089	CA	SER	X	204	41.939	45.352	44.426	0.00	0.00
ATOM	3090	HA	SER	X	204	41.351	45.192	45.330	0.00	0.00
ATOM	3091	CB	SER	X	204	43.076	46.245	44.782	0.00	0.00
ATOM	3092	HB2	SER	X	204	43.689	46.254	43.881	0.00	0.00
ATOM	3093	HB3	SER	X	204	42.742	47.247	45.052	0.00	0.00
ATOM	3094	OG	SER	X	204	43.904	45.766	45.892	0.00	0.00
ATOM	3095	HG	SER	X	204	44.356	44.978	45.581	0.00	0.00
ATOM	3096	C	SER	X	204	41.137	46.058	43.341	0.00	0.00
ATOM	3097	O	SER	X	204	40.122	46.532	43.765	0.00	0.00
ATOM	3098	N	VAL	X	205	41.470	46.003	42.009	0.00	0.00
ATOM	3099	H	VAL	X	205	42.251	45.390	41.825	0.00	0.00
ATOM	3100	CA	VAL	X	205	40.688	46.671	40.956	0.00	0.00
ATOM	3101	HA	VAL	X	205	40.527	47.701	41.274	0.00	0.00
ATOM	3102	CB	VAL	X	205	41.468	46.562	39.606	0.00	0.00
ATOM	3103	HB	VAL	X	205	41.861	45.566	39.401	0.00	0.00
ATOM	3104	CG1	VAL	X	205	40.587	46.967	38.379	0.00	0.00
ATOM	3105	HG11	VAL	X	205	41.126	47.454	37.566	0.00	0.00
ATOM	3106	HG12	VAL	X	205	40.245	45.997	38.018	0.00	0.00
ATOM	3107	HG13	VAL	X	205	39.720	47.544	38.701	0.00	0.00
ATOM	3108	CG2	VAL	X	205	42.588	47.659	39.616	0.00	0.00
ATOM	3109	HG21	VAL	X	205	43.107	47.770	38.663	0.00	0.00
ATOM	3110	HG22	VAL	X	205	42.346	48.671	39.938	0.00	0.00
ATOM	3111	HG23	VAL	X	205	43.324	47.356	40.361	0.00	0.00
ATOM	3112	C	VAL	X	205	39.419	45.821	40.970	0.00	0.00
ATOM	3113	O	VAL	X	205	38.385	46.483	41.040	0.00	0.00
ATOM	3114	N	GLY	X	206	39.409	44.530	41.060	0.00	0.00
ATOM	3115	H	GLY	X	206	40.350	44.163	41.035	0.00	0.00
ATOM	3116	CA	GLY	X	206	38.248	43.618	41.076	0.00	0.00
ATOM	3117	HA2	GLY	X	206	37.629	43.690	40.142	0.00	0.00
ATOM	3118	HA3	GLY	X	206	38.669	42.612	41.192	0.00	0.00
ATOM	3119	C	GLY	X	206	37.322	43.941	42.304	0.00	0.00
ATOM	3120	O	GLY	X	206	36.146	43.662	42.230	0.00	0.00
ATOM	3121	N	MET	X	207	37.799	44.486	43.471	0.00	0.00
ATOM	3122	H	MET	X	207	38.800	44.561	43.583	0.00	0.00
ATOM	3123	CA	MET	X	207	36.959	44.838	44.548	0.00	0.00
ATOM	3124	HA	MET	X	207	36.283	44.019	44.793	0.00	0.00
ATOM	3125	CB	MET	X	207	37.641	45.097	45.839	0.00	0.00
ATOM	3126	HB2	MET	X	207	38.453	45.818	45.747	0.00	0.00
ATOM	3127	HB3	MET	X	207	36.955	45.574	46.539	0.00	0.00
ATOM	3128	CG	MET	X	207	38.247	43.807	46.463	0.00	0.00
ATOM	3129	HG2	MET	X	207	38.915	43.367	45.722	0.00	0.00
ATOM	3130	HG3	MET	X	207	38.844	44.164	47.302	0.00	0.00
ATOM	3131	SD	MET	X	207	37.214	42.474	47.178	0.00	0.00
ATOM	3132	CE	MET	X	207	38.573	41.304	47.428	0.00	0.00
ATOM	3133	HE1	MET	X	207	38.333	40.423	48.023	0.00	0.00
ATOM	3134	HE2	MET	X	207	38.848	41.050	46.405	0.00	0.00
ATOM	3135	HE3	MET	X	207	39.388	41.774	47.979	0.00	0.00
ATOM	3136	C	MET	X	207	36.159	46.074	44.280	0.00	0.00
ATOM	3137	O	MET	X	207	35.040	46.164	44.654	0.00	0.00
ATOM	3138	N	HIE	X	208	36.790	47.132	43.706	0.00	0.00
ATOM	3139	H	HIE	X	208	37.735	47.021	43.367	0.00	0.00
ATOM	3140	CA	HIE	X	208	36.205	48.444	43.478	0.00	0.00
ATOM	3141	HA	HIE	X	208	35.757	48.731	44.429	0.00	0.00
ATOM	3142	CB	HIE	X	208	37.327	49.417	43.029	0.00	0.00
ATOM	3143	HB2	HIE	X	208	37.779	48.967	42.145	0.00	0.00
ATOM	3144	HB3	HIE	X	208	36.940	50.408	42.790	0.00	0.00
ATOM	3145	CG	HIE	X	208	38.405	49.801	44.094	0.00	0.00
ATOM	3146	ND1	HIE	X	208	38.129	49.963	45.411	0.00	0.00
ATOM	3147	CE1	HIE	X	208	39.290	50.063	46.062	0.00	0.00
ATOM	3148	HE1	HIE	X	208	39.445	50.214	47.120	0.00	0.00
ATOM	3149	NE2	HIE	X	208	40.273	49.769	45.215	0.00	0.00
ATOM	3150	HE2	HIE	X	208	41.204	49.440	45.429	0.00	0.00
ATOM	3151	CD2	HIE	X	208	39.733	49.728	43.966	0.00	0.00
ATOM	3152	HD2	HIE	X	208	40.303	49.526	43.071	0.00	0.00
ATOM	3153	C	HIE	X	208	35.100	48.339	42.406	0.00	0.00
ATOM	3154	O	HIE	X	208	34.235	49.190	42.417	0.00	0.00

ATOM	3155	N	LEU	X	209	35.226	47.319	41.514	0.00	0.00
ATOM	3156	H	LEU	X	209	36.092	46.801	41.499	0.00	0.00
ATOM	3157	CA	LEU	X	209	34.113	46.836	40.706	0.00	0.00
ATOM	3158	HA	LEU	X	209	33.834	47.641	40.026	0.00	0.00
ATOM	3159	CB	LEU	X	209	34.933	45.880	39.812	0.00	0.00
ATOM	3160	HB2	LEU	X	209	35.806	46.289	39.304	0.00	0.00
ATOM	3161	HB3	LEU	X	209	35.181	45.054	40.479	0.00	0.00
ATOM	3162	CG	LEU	X	209	34.038	45.243	38.625	0.00	0.00
ATOM	3163	HG	LEU	X	209	33.253	44.616	39.047	0.00	0.00
ATOM	3164	CD1	LEU	X	209	33.542	46.288	37.714	0.00	0.00
ATOM	3165	HD11	LEU	X	209	34.360	46.797	37.206	0.00	0.00
ATOM	3166	HD12	LEU	X	209	32.874	45.825	36.988	0.00	0.00
ATOM	3167	HD13	LEU	X	209	32.839	46.935	38.238	0.00	0.00
ATOM	3168	CD2	LEU	X	209	35.019	44.258	37.955	0.00	0.00
ATOM	3169	HD21	LEU	X	209	35.431	43.516	38.638	0.00	0.00
ATOM	3170	HD22	LEU	X	209	34.413	43.847	37.147	0.00	0.00
ATOM	3171	HD23	LEU	X	209	35.845	44.855	37.569	0.00	0.00
ATOM	3172	C	LEU	X	209	32.910	46.163	41.412	0.00	0.00
ATOM	3173	O	LEU	X	209	31.870	45.972	40.769	0.00	0.00
ATOM	3174	N	LEU	X	210	33.034	45.800	42.692	0.00	0.00
ATOM	3175	H	LEU	X	210	33.953	45.787	43.112	0.00	0.00
ATOM	3176	CA	LEU	X	210	32.018	45.238	43.564	0.00	0.00
ATOM	3177	HA	LEU	X	210	31.158	44.839	43.026	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.590	44.044	44.358	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.476	44.367	44.904	0.00	0.00
ATOM	3180	HB3	LEU	X	210	31.807	43.767	45.064	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.859	42.703	43.579	0.00	0.00
ATOM	3182	HG	LEU	X	210	33.661	42.941	42.880	0.00	0.00
ATOM	3183	CD1	LEU	X	210	33.184	41.514	44.527	0.00	0.00
ATOM	3184	HD11	LEU	X	210	32.415	41.419	45.293	0.00	0.00
ATOM	3185	HD12	LEU	X	210	33.229	40.620	43.905	0.00	0.00
ATOM	3186	HD13	LEU	X	210	34.163	41.762	44.936	0.00	0.00
ATOM	3187	CD2	LEU	X	210	31.674	42.361	42.600	0.00	0.00
ATOM	3188	HD21	LEU	X	210	30.688	42.253	43.054	0.00	0.00
ATOM	3189	HD22	LEU	X	210	31.612	43.137	41.838	0.00	0.00
ATOM	3190	HD23	LEU	X	210	31.835	41.375	42.164	0.00	0.00
ATOM	3191	C	LEU	X	210	31.506	46.327	44.572	0.00	0.00
ATOM	3192	O	LEU	X	210	30.339	46.351	44.888	0.00	0.00
ATOM	3193	N	SER	X	211	32.353	47.133	45.121	0.00	0.00
ATOM	3194	H	SER	X	211	33.306	47.114	44.787	0.00	0.00
ATOM	3195	CA	SER	X	211	31.986	48.020	46.224	0.00	0.00
ATOM	3196	HA	SER	X	211	31.411	47.495	46.987	0.00	0.00
ATOM	3197	CB	SER	X	211	33.213	48.284	47.151	0.00	0.00
ATOM	3198	HB2	SER	X	211	33.598	47.378	47.618	0.00	0.00
ATOM	3199	HB3	SER	X	211	33.990	48.797	46.585	0.00	0.00
ATOM	3200	OG	SER	X	211	32.890	49.130	48.156	0.00	0.00
ATOM	3201	HG	SER	X	211	32.417	48.639	48.832	0.00	0.00
ATOM	3202	C	SER	X	211	31.355	49.319	45.792	0.00	0.00
ATOM	3203	O	SER	X	211	32.051	50.202	45.328	0.00	0.00
ATOM	3204	N	PRO	X	212	30.017	49.631	45.969	0.00	0.00
ATOM	3205	CD	PRO	X	212	29.054	48.832	46.631	0.00	0.00
ATOM	3206	HD2	PRO	X	212	29.061	49.099	47.688	0.00	0.00
ATOM	3207	HD3	PRO	X	212	29.304	47.784	46.462	0.00	0.00
ATOM	3208	CG	PRO	X	212	27.762	49.230	46.004	0.00	0.00
ATOM	3209	HG2	PRO	X	212	26.949	49.185	46.728	0.00	0.00
ATOM	3210	HG3	PRO	X	212	27.491	48.591	45.164	0.00	0.00
ATOM	3211	CB	PRO	X	212	27.903	50.709	45.538	0.00	0.00
ATOM	3212	HB2	PRO	X	212	27.610	51.311	46.398	0.00	0.00
ATOM	3213	HB3	PRO	X	212	27.315	50.876	44.636	0.00	0.00
ATOM	3214	CA	PRO	X	212	29.418	50.775	45.270	0.00	0.00
ATOM	3215	HA	PRO	X	212	29.536	50.553	44.210	0.00	0.00
ATOM	3216	C	PRO	X	212	29.909	52.155	45.703	0.00	0.00
ATOM	3217	O	PRO	X	212	29.892	53.045	44.870	0.00	0.00
ATOM	3218	N	PRO	X	213	30.360	52.490	46.960	0.00	0.00
ATOM	3219	CD	PRO	X	213	30.169	51.739	48.146	0.00	0.00
ATOM	3220	HD2	PRO	X	213	30.927	50.975	48.324	0.00	0.00
ATOM	3221	HD3	PRO	X	213	29.190	51.268	48.226	0.00	0.00
ATOM	3222	CG	PRO	X	213	30.198	52.745	49.299	0.00	0.00
ATOM	3223	HG2	PRO	X	213	30.649	52.318	50.194	0.00	0.00
ATOM	3224	HG3	PRO	X	213	29.186	53.118	49.459	0.00	0.00

ATOM	3225	CB	PRO	X	213	31.186	53.801	48.756	0.00	0.00
ATOM	3226	HB2	PRO	X	213	32.180	53.669	49.186	0.00	0.00
ATOM	3227	HB3	PRO	X	213	30.947	54.810	49.094	0.00	0.00
ATOM	3228	CA	PRO	X	213	31.058	53.715	47.273	0.00	0.00
ATOM	3229	HA	PRO	X	213	30.605	54.628	46.887	0.00	0.00
ATOM	3230	C	PRO	X	213	32.382	53.795	46.637	0.00	0.00
ATOM	3231	O	PRO	X	213	32.914	54.895	46.463	0.00	0.00
ATOM	3232	N	SER	X	214	33.013	52.677	46.234	0.00	0.00
ATOM	3233	H	SER	X	214	32.625	51.764	46.424	0.00	0.00
ATOM	3234	CA	SER	X	214	34.160	52.781	45.264	0.00	0.00
ATOM	3235	HA	SER	X	214	34.765	53.640	45.553	0.00	0.00
ATOM	3236	CB	SER	X	214	35.122	51.562	45.447	0.00	0.00
ATOM	3237	HB2	SER	X	214	34.637	50.648	45.105	0.00	0.00
ATOM	3238	HB3	SER	X	214	35.917	51.634	44.704	0.00	0.00
ATOM	3239	OG	SER	X	214	35.628	51.587	46.804	0.00	0.00
ATOM	3240	HG	SER	X	214	36.361	50.967	46.827	0.00	0.00
ATOM	3241	C	SER	X	214	33.723	52.991	43.818	0.00	0.00
ATOM	3242	O	SER	X	214	34.402	53.686	43.100	0.00	0.00
ATOM	3243	N	ARG	X	215	32.590	52.381	43.383	0.00	0.00
ATOM	3244	H	ARG	X	215	32.164	51.790	44.083	0.00	0.00
ATOM	3245	CA	ARG	X	215	32.279	52.218	41.936	0.00	0.00
ATOM	3246	HA	ARG	X	215	33.187	51.914	41.414	0.00	0.00
ATOM	3247	CB	ARG	X	215	31.396	50.991	41.609	0.00	0.00
ATOM	3248	HB2	ARG	X	215	31.836	50.089	42.035	0.00	0.00
ATOM	3249	HB3	ARG	X	215	30.513	51.123	42.234	0.00	0.00
ATOM	3250	CG	ARG	X	215	31.098	50.612	40.162	0.00	0.00
ATOM	3251	HG2	ARG	X	215	30.614	51.413	39.604	0.00	0.00
ATOM	3252	HG3	ARG	X	215	32.043	50.319	39.705	0.00	0.00
ATOM	3253	CD	ARG	X	215	30.204	49.320	40.229	0.00	0.00
ATOM	3254	HD2	ARG	X	215	30.931	48.510	40.176	0.00	0.00
ATOM	3255	HD3	ARG	X	215	29.514	49.319	41.073	0.00	0.00
ATOM	3256	NE	ARG	X	215	29.427	49.184	38.975	0.00	0.00
ATOM	3257	HE	ARG	X	215	29.152	50.032	38.499	0.00	0.00
ATOM	3258	CZ	ARG	X	215	28.814	48.101	38.473	0.00	0.00
ATOM	3259	NH1	ARG	X	215	29.102	46.909	38.897	0.00	0.00
ATOM	3260	HH11	ARG	X	215	29.363	46.777	39.863	0.00	0.00
ATOM	3261	HH12	ARG	X	215	28.729	46.087	38.445	0.00	0.00
ATOM	3262	NH2	ARG	X	215	27.912	48.170	37.543	0.00	0.00
ATOM	3263	HH21	ARG	X	215	27.522	49.055	37.252	0.00	0.00
ATOM	3264	HH22	ARG	X	215	27.481	47.311	37.234	0.00	0.00
ATOM	3265	C	ARG	X	215	31.788	53.480	41.191	0.00	0.00
ATOM	3266	O	ARG	X	215	31.899	53.526	39.946	0.00	0.00
ATOM	3267	N	GLY	X	216	31.369	54.554	41.843	0.00	0.00
ATOM	3268	H	GLY	X	216	31.192	54.492	42.835	0.00	0.00
ATOM	3269	CA	GLY	X	216	31.002	55.793	41.161	0.00	0.00
ATOM	3270	HA2	GLY	X	216	30.516	55.408	40.223	0.00	0.00
ATOM	3271	HA3	GLY	X	216	30.270	56.471	41.687	0.00	0.00
ATOM	3272	C	GLY	X	216	32.154	56.657	40.645	0.00	0.00
ATOM	3273	O	GLY	X	216	32.039	57.727	40.152	0.00	0.00
ATOM	3274	N	LEU	X	217	33.452	56.311	41.007	0.00	0.00
ATOM	3275	H	LEU	X	217	33.664	55.444	41.480	0.00	0.00
ATOM	3276	CA	LEU	X	217	34.687	57.228	40.880	0.00	0.00
ATOM	3277	HA	LEU	X	217	34.408	58.280	40.940	0.00	0.00
ATOM	3278	CB	LEU	X	217	35.546	56.976	42.228	0.00	0.00
ATOM	3279	HB2	LEU	X	217	36.095	56.050	42.056	0.00	0.00
ATOM	3280	HB3	LEU	X	217	36.262	57.798	42.229	0.00	0.00
ATOM	3281	CG	LEU	X	217	34.838	56.984	43.620	0.00	0.00
ATOM	3282	HG	LEU	X	217	33.884	56.459	43.660	0.00	0.00
ATOM	3283	CD1	LEU	X	217	35.758	56.440	44.790	0.00	0.00
ATOM	3284	HD11	LEU	X	217	36.669	57.032	44.863	0.00	0.00
ATOM	3285	HD12	LEU	X	217	35.195	56.491	45.722	0.00	0.00
ATOM	3286	HD13	LEU	X	217	35.976	55.396	44.566	0.00	0.00
ATOM	3287	CD2	LEU	X	217	34.680	58.490	44.128	0.00	0.00
ATOM	3288	HD21	LEU	X	217	34.266	58.585	45.132	0.00	0.00
ATOM	3289	HD22	LEU	X	217	35.633	59.016	44.069	0.00	0.00
ATOM	3290	HD23	LEU	X	217	34.099	59.019	43.372	0.00	0.00
ATOM	3291	C	LEU	X	217	35.582	57.065	39.669	0.00	0.00
ATOM	3292	O	LEU	X	217	36.488	57.804	39.499	0.00	0.00
ATOM	3293	N	PHE	X	218	35.248	56.091	38.886	0.00	0.00
ATOM	3294	H	PHE	X	218	34.506	55.509	39.246	0.00	0.00

ATOM	3295	CA	PHE	X	218	36.046	55.675	37.685	0.00	0.00
ATOM	3296	HA	PHE	X	218	36.450	56.548	37.173	0.00	0.00
ATOM	3297	CB	PHE	X	218	37.312	54.853	38.090	0.00	0.00
ATOM	3298	HB2	PHE	X	218	37.831	54.673	37.149	0.00	0.00
ATOM	3299	HB3	PHE	X	218	38.007	55.334	38.778	0.00	0.00
ATOM	3300	CG	PHE	X	218	36.981	53.491	38.839	0.00	0.00
ATOM	3301	CD1	PHE	X	218	36.562	53.411	40.196	0.00	0.00
ATOM	3302	HD1	PHE	X	218	36.497	54.339	40.744	0.00	0.00
ATOM	3303	CE1	PHE	X	218	36.183	52.198	40.728	0.00	0.00
ATOM	3304	HE1	PHE	X	218	35.663	52.175	41.674	0.00	0.00
ATOM	3305	CZ	PHE	X	218	36.287	51.021	39.939	0.00	0.00
ATOM	3306	HZ	PHE	X	218	36.001	50.070	40.363	0.00	0.00
ATOM	3307	CE2	PHE	X	218	36.659	51.060	38.579	0.00	0.00
ATOM	3308	HE2	PHE	X	218	36.648	50.229	37.889	0.00	0.00
ATOM	3309	CD2	PHE	X	218	36.947	52.324	38.022	0.00	0.00
ATOM	3310	HD2	PHE	X	218	37.165	52.317	36.964	0.00	0.00
ATOM	3311	C	PHE	X	218	35.155	54.914	36.739	0.00	0.00
ATOM	3312	O	PHE	X	218	33.970	54.697	37.099	0.00	0.00
ATOM	3313	N	HIE	X	219	35.581	54.494	35.593	0.00	0.00
ATOM	3314	H	HIE	X	219	36.416	55.026	35.399	0.00	0.00
ATOM	3315	CA	HIE	X	219	34.844	53.929	34.539	0.00	0.00
ATOM	3316	HA	HIE	X	219	33.758	53.947	34.633	0.00	0.00
ATOM	3317	CB	HIE	X	219	35.117	54.762	33.299	0.00	0.00
ATOM	3318	HB2	HIE	X	219	36.184	54.683	33.089	0.00	0.00
ATOM	3319	HB3	HIE	X	219	34.477	54.463	32.468	0.00	0.00
ATOM	3320	CG	HIE	X	219	34.940	56.254	33.585	0.00	0.00
ATOM	3321	ND1	HIE	X	219	35.927	57.026	34.113	0.00	0.00
ATOM	3322	CE1	HIE	X	219	35.352	58.229	34.138	0.00	0.00
ATOM	3323	HE1	HIE	X	219	35.818	59.152	34.451	0.00	0.00
ATOM	3324	NE2	HIE	X	219	34.068	58.176	33.883	0.00	0.00
ATOM	3325	HE2	HIE	X	219	33.448	58.967	33.975	0.00	0.00
ATOM	3326	CD2	HIE	X	219	33.806	56.911	33.395	0.00	0.00
ATOM	3327	HD2	HIE	X	219	32.866	56.539	33.014	0.00	0.00
ATOM	3328	C	HIE	X	219	35.267	52.513	34.283	0.00	0.00
ATOM	3329	O	HIE	X	219	34.455	51.569	34.294	0.00	0.00
ATOM	3330	N	ARG	X	220	36.547	52.272	34.080	0.00	0.00
ATOM	3331	H	ARG	X	220	37.172	53.036	34.297	0.00	0.00
ATOM	3332	CA	ARG	X	220	37.100	51.042	33.562	0.00	0.00
ATOM	3333	HA	ARG	X	220	36.256	50.403	33.302	0.00	0.00
ATOM	3334	CB	ARG	X	220	37.877	51.408	32.232	0.00	0.00
ATOM	3335	HB2	ARG	X	220	38.615	52.155	32.524	0.00	0.00
ATOM	3336	HB3	ARG	X	220	38.427	50.561	31.822	0.00	0.00
ATOM	3337	CG	ARG	X	220	36.992	51.993	31.122	0.00	0.00
ATOM	3338	HG2	ARG	X	220	36.270	51.221	30.855	0.00	0.00
ATOM	3339	HG3	ARG	X	220	36.469	52.875	31.490	0.00	0.00
ATOM	3340	CD	ARG	X	220	37.684	52.328	29.798	0.00	0.00
ATOM	3341	HD2	ARG	X	220	38.351	53.186	29.875	0.00	0.00
ATOM	3342	HD3	ARG	X	220	38.313	51.539	29.387	0.00	0.00
ATOM	3343	NE	ARG	X	220	36.630	52.556	28.748	0.00	0.00
ATOM	3344	HE	ARG	X	220	35.876	51.885	28.738	0.00	0.00
ATOM	3345	CZ	ARG	X	220	36.324	53.729	28.177	0.00	0.00
ATOM	3346	NH1	ARG	X	220	37.011	54.855	28.183	0.00	0.00
ATOM	3347	HH11	ARG	X	220	37.928	54.824	28.605	0.00	0.00
ATOM	3348	HH12	ARG	X	220	36.726	55.698	27.704	0.00	0.00
ATOM	3349	NH2	ARG	X	220	35.208	53.783	27.529	0.00	0.00
ATOM	3350	HH21	ARG	X	220	34.615	52.971	27.614	0.00	0.00
ATOM	3351	HH22	ARG	X	220	35.025	54.582	26.939	0.00	0.00
ATOM	3352	C	ARG	X	220	37.962	50.284	34.578	0.00	0.00
ATOM	3353	O	ARG	X	220	38.646	50.968	35.370	0.00	0.00
ATOM	3354	N	ALA	X	221	38.089	48.991	34.448	0.00	0.00
ATOM	3355	H	ALA	X	221	37.689	48.563	33.625	0.00	0.00
ATOM	3356	CA	ALA	X	221	38.912	48.113	35.272	0.00	0.00
ATOM	3357	HA	ALA	X	221	39.588	48.620	35.960	0.00	0.00
ATOM	3358	CB	ALA	X	221	38.014	47.235	36.179	0.00	0.00
ATOM	3359	HB1	ALA	X	221	38.422	46.340	36.648	0.00	0.00
ATOM	3360	HB2	ALA	X	221	37.544	47.824	36.967	0.00	0.00
ATOM	3361	HB3	ALA	X	221	37.168	46.890	35.585	0.00	0.00
ATOM	3362	C	ALA	X	221	39.729	47.224	34.338	0.00	0.00
ATOM	3363	O	ALA	X	221	39.227	46.704	33.369	0.00	0.00
ATOM	3364	N	VAL	X	222	41.041	47.025	34.657	0.00	0.00

ATOM	3365	H	VAL	X	222	41.401	47.448	35.501	0.00	0.00
ATOM	3366	CA	VAL	X	222	41.903	46.001	34.044	0.00	0.00
ATOM	3367	HA	VAL	X	222	41.436	45.349	33.306	0.00	0.00
ATOM	3368	CB	VAL	X	222	43.090	46.773	33.442	0.00	0.00
ATOM	3369	HB	VAL	X	222	43.699	47.271	34.196	0.00	0.00
ATOM	3370	CG1	VAL	X	222	44.099	45.774	32.864	0.00	0.00
ATOM	3371	HG11	VAL	X	222	43.759	45.107	32.071	0.00	0.00
ATOM	3372	HG12	VAL	X	222	44.799	46.421	32.336	0.00	0.00
ATOM	3373	HG13	VAL	X	222	44.577	45.262	33.699	0.00	0.00
ATOM	3374	CG2	VAL	X	222	42.584	47.773	32.460	0.00	0.00
ATOM	3375	HG21	VAL	X	222	43.307	48.082	31.705	0.00	0.00
ATOM	3376	HG22	VAL	X	222	41.827	47.267	31.861	0.00	0.00
ATOM	3377	HG23	VAL	X	222	42.220	48.666	32.968	0.00	0.00
ATOM	3378	C	VAL	X	222	42.396	45.052	35.154	0.00	0.00
ATOM	3379	O	VAL	X	222	42.767	45.537	36.222	0.00	0.00
ATOM	3380	N	LEU	X	223	42.467	43.739	34.847	0.00	0.00
ATOM	3381	H	LEU	X	223	42.056	43.332	34.019	0.00	0.00
ATOM	3382	CA	LEU	X	223	42.950	42.705	35.849	0.00	0.00
ATOM	3383	HA	LEU	X	223	43.533	43.143	36.659	0.00	0.00
ATOM	3384	CB	LEU	X	223	41.793	41.778	36.429	0.00	0.00
ATOM	3385	HB2	LEU	X	223	41.243	41.266	35.640	0.00	0.00
ATOM	3386	HB3	LEU	X	223	42.212	41.056	37.129	0.00	0.00
ATOM	3387	CG	LEU	X	223	40.731	42.612	37.274	0.00	0.00
ATOM	3388	HG	LEU	X	223	41.219	43.393	37.856	0.00	0.00
ATOM	3389	CD1	LEU	X	223	39.641	43.207	36.403	0.00	0.00
ATOM	3390	HD11	LEU	X	223	40.088	43.934	35.725	0.00	0.00
ATOM	3391	HD12	LEU	X	223	39.279	42.402	35.764	0.00	0.00
ATOM	3392	HD13	LEU	X	223	38.837	43.589	37.033	0.00	0.00
ATOM	3393	CD2	LEU	X	223	40.000	41.662	38.251	0.00	0.00
ATOM	3394	HD21	LEU	X	223	40.761	41.225	38.897	0.00	0.00
ATOM	3395	HD22	LEU	X	223	39.277	42.172	38.888	0.00	0.00
ATOM	3396	HD23	LEU	X	223	39.563	40.819	37.716	0.00	0.00
ATOM	3397	C	LEU	X	223	43.953	41.793	35.146	0.00	0.00
ATOM	3398	O	LEU	X	223	43.801	41.459	33.980	0.00	0.00
ATOM	3399	N	GLN	X	224	45.093	41.550	35.778	0.00	0.00
ATOM	3400	H	GLN	X	224	45.249	42.045	36.645	0.00	0.00
ATOM	3401	CA	GLN	X	224	46.263	40.905	35.318	0.00	0.00
ATOM	3402	HA	GLN	X	224	45.883	40.261	34.524	0.00	0.00
ATOM	3403	CB	GLN	X	224	47.369	41.924	35.071	0.00	0.00
ATOM	3404	HB2	GLN	X	224	47.617	42.380	36.030	0.00	0.00
ATOM	3405	HB3	GLN	X	224	48.228	41.426	34.621	0.00	0.00
ATOM	3406	CG	GLN	X	224	46.861	43.041	34.121	0.00	0.00
ATOM	3407	HG2	GLN	X	224	46.456	42.601	33.211	0.00	0.00
ATOM	3408	HG3	GLN	X	224	46.027	43.498	34.654	0.00	0.00
ATOM	3409	CD	GLN	X	224	47.846	44.146	33.789	0.00	0.00
ATOM	3410	OE1	GLN	X	224	47.485	45.248	33.558	0.00	0.00
ATOM	3411	NE2	GLN	X	224	49.158	43.890	33.758	0.00	0.00
ATOM	3412	HE21	GLN	X	224	49.664	44.763	33.804	0.00	0.00
ATOM	3413	HE22	GLN	X	224	49.493	43.020	34.146	0.00	0.00
ATOM	3414	C	GLN	X	224	46.829	39.890	36.336	0.00	0.00
ATOM	3415	O	GLN	X	224	46.944	40.173	37.492	0.00	0.00
ATOM	3416	N	SER	X	225	47.215	38.707	35.962	0.00	0.00
ATOM	3417	H	SER	X	225	47.075	38.413	35.006	0.00	0.00
ATOM	3418	CA	SER	X	225	47.945	37.721	36.802	0.00	0.00
ATOM	3419	HA	SER	X	225	47.779	36.744	36.349	0.00	0.00
ATOM	3420	CB	SER	X	225	49.451	37.999	37.011	0.00	0.00
ATOM	3421	HB2	SER	X	225	49.608	39.039	37.296	0.00	0.00
ATOM	3422	HB3	SER	X	225	49.805	37.359	37.820	0.00	0.00
ATOM	3423	OG	SER	X	225	50.135	37.812	35.793	0.00	0.00
ATOM	3424	HG	SER	X	225	49.813	38.479	35.182	0.00	0.00
ATOM	3425	C	SER	X	225	47.232	37.494	38.120	0.00	0.00
ATOM	3426	O	SER	X	225	47.857	37.440	39.217	0.00	0.00
ATOM	3427	N	GLY	X	226	45.924	37.350	38.149	0.00	0.00
ATOM	3428	H	GLY	X	226	45.431	37.485	37.278	0.00	0.00
ATOM	3429	CA	GLY	X	226	45.086	37.409	39.393	0.00	0.00
ATOM	3430	HA2	GLY	X	226	45.052	36.371	39.763	0.00	0.00
ATOM	3431	HA3	GLY	X	226	45.632	37.904	40.144	0.00	0.00
ATOM	3432	C	GLY	X	226	43.613	38.016	39.271	0.00	0.00
ATOM	3433	O	GLY	X	226	43.370	38.864	38.385	0.00	0.00
ATOM	3434	N	ALA	X	227	42.739	37.604	40.144	0.00	0.00

ATOM	3435	H	ALA	X	227	43.062	37.167	40.995	0.00	0.00
ATOM	3436	CA	ALA	X	227	41.358	38.022	40.125	0.00	0.00
ATOM	3437	HA	ALA	X	227	41.297	38.993	39.633	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.533	37.089	39.225	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.473	37.023	39.469	0.00	0.00
ATOM	3440	HB2	ALA	X	227	40.746	37.464	38.224	0.00	0.00
ATOM	3441	HB3	ALA	X	227	40.933	36.083	39.354	0.00	0.00
ATOM	3442	C	ALA	X	227	40.812	38.156	41.552	0.00	0.00
ATOM	3443	O	ALA	X	227	41.381	37.576	42.542	0.00	0.00
ATOM	3444	N	PRO	X	228	39.635	38.873	41.802	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.894	39.662	40.814	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.663	39.027	39.959	0.00	0.00
ATOM	3447	HD3	PRO	X	228	39.617	40.438	40.561	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.611	39.979	41.482	0.00	0.00
ATOM	3449	HG2	PRO	X	228	36.864	39.186	41.513	0.00	0.00
ATOM	3450	HG3	PRO	X	228	37.183	40.855	40.994	0.00	0.00
ATOM	3451	CB	PRO	X	228	38.015	40.178	42.933	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.163	40.042	43.600	0.00	0.00
ATOM	3453	HB3	PRO	X	228	38.488	41.153	43.047	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.128	39.071	43.153	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.863	39.491	43.839	0.00	0.00
ATOM	3456	C	PRO	X	228	38.623	37.806	43.762	0.00	0.00
ATOM	3457	O	PRO	X	228	38.692	37.674	44.967	0.00	0.00
ATOM	3458	N	ASN	X	229	37.896	37.030	42.981	0.00	0.00
ATOM	3459	H	ASN	X	229	37.812	37.409	42.049	0.00	0.00
ATOM	3460	CA	ASN	X	229	37.270	35.675	43.166	0.00	0.00
ATOM	3461	HA	ASN	X	229	36.924	35.613	44.198	0.00	0.00
ATOM	3462	CB	ASN	X	229	36.050	35.603	42.267	0.00	0.00
ATOM	3463	HB2	ASN	X	229	35.622	34.632	42.516	0.00	0.00
ATOM	3464	HB3	ASN	X	229	35.377	36.426	42.504	0.00	0.00
ATOM	3465	CG	ASN	X	229	36.316	35.645	40.756	0.00	0.00
ATOM	3466	OD1	ASN	X	229	37.049	36.541	40.287	0.00	0.00
ATOM	3467	ND2	ASN	X	229	35.793	34.709	39.923	0.00	0.00
ATOM	3468	HD21	ASN	X	229	35.964	34.754	38.928	0.00	0.00
ATOM	3469	HD22	ASN	X	229	35.232	34.002	40.376	0.00	0.00
ATOM	3470	C	ASN	X	229	38.244	34.470	43.120	0.00	0.00
ATOM	3471	O	ASN	X	229	37.894	33.323	42.898	0.00	0.00
ATOM	3472	N	GLY	X	230	39.559	34.724	43.165	0.00	0.00
ATOM	3473	H	GLY	X	230	39.888	35.650	43.397	0.00	0.00
ATOM	3474	CA	GLY	X	230	40.549	33.645	43.441	0.00	0.00
ATOM	3475	HA2	GLY	X	230	40.427	32.747	42.765	0.00	0.00
ATOM	3476	HA3	GLY	X	230	41.509	33.933	43.013	0.00	0.00
ATOM	3477	C	GLY	X	230	40.583	33.328	44.952	0.00	0.00
ATOM	3478	O	GLY	X	230	40.600	34.236	45.727	0.00	0.00
ATOM	3479	N	PRO	X	231	40.438	32.000	45.347	0.00	0.00
ATOM	3480	CD	PRO	X	231	40.370	30.833	44.456	0.00	0.00
ATOM	3481	HD2	PRO	X	231	41.357	30.487	44.148	0.00	0.00
ATOM	3482	HD3	PRO	X	231	39.703	30.943	43.600	0.00	0.00
ATOM	3483	CG	PRO	X	231	39.818	29.671	45.319	0.00	0.00
ATOM	3484	HG2	PRO	X	231	40.193	28.672	45.100	0.00	0.00
ATOM	3485	HG3	PRO	X	231	38.733	29.623	45.233	0.00	0.00
ATOM	3486	CB	PRO	X	231	40.342	30.145	46.724	0.00	0.00
ATOM	3487	HB2	PRO	X	231	41.381	29.816	46.728	0.00	0.00
ATOM	3488	HB3	PRO	X	231	39.758	29.682	47.519	0.00	0.00
ATOM	3489	CA	PRO	X	231	40.188	31.626	46.709	0.00	0.00
ATOM	3490	HA	PRO	X	231	39.136	31.871	46.857	0.00	0.00
ATOM	3491	C	PRO	X	231	41.006	32.273	47.887	0.00	0.00
ATOM	3492	O	PRO	X	231	40.447	32.651	48.906	0.00	0.00
ATOM	3493	N	TRP	X	232	42.268	32.609	47.579	0.00	0.00
ATOM	3494	H	TRP	X	232	42.515	32.382	46.626	0.00	0.00
ATOM	3495	CA	TRP	X	232	43.217	33.310	48.442	0.00	0.00
ATOM	3496	HA	TRP	X	232	43.352	32.828	49.410	0.00	0.00
ATOM	3497	CB	TRP	X	232	44.639	33.260	47.884	0.00	0.00
ATOM	3498	HB2	TRP	X	232	45.340	33.767	48.546	0.00	0.00
ATOM	3499	HB3	TRP	X	232	44.947	32.215	47.867	0.00	0.00
ATOM	3500	CG	TRP	X	232	44.713	33.817	46.491	0.00	0.00
ATOM	3501	CD1	TRP	X	232	44.679	32.957	45.460	0.00	0.00
ATOM	3502	HD1	TRP	X	232	44.486	31.895	45.441	0.00	0.00
ATOM	3503	NE1	TRP	X	232	44.714	33.602	44.294	0.00	0.00
ATOM	3504	HE1	TRP	X	232	44.564	33.159	43.399	0.00	0.00

ATOM	3505	CE2	TRP	X	232	44.879	34.981	44.474	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	44.880	36.042	43.605	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	44.694	35.905	42.550	0.00	0.00
ATOM	3508	CH2	TRP	X	232	45.010	37.360	44.121	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.973	38.204	43.448	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.237	37.497	45.534	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.392	38.498	45.907	0.00	0.00
ATOM	3512	CE3	TRP	X	232	45.168	36.401	46.390	0.00	0.00
ATOM	3513	HE3	TRP	X	232	45.267	36.634	47.440	0.00	0.00
ATOM	3514	CD2	TRP	X	232	44.893	35.119	45.868	0.00	0.00
ATOM	3515	C	TRP	X	232	42.777	34.720	48.753	0.00	0.00
ATOM	3516	O	TRP	X	232	43.103	35.166	49.868	0.00	0.00
ATOM	3517	N	ALA	X	233	42.013	35.481	47.951	0.00	0.00
ATOM	3518	H	ALA	X	233	41.811	35.136	47.023	0.00	0.00
ATOM	3519	CA	ALA	X	233	41.935	36.912	47.915	0.00	0.00
ATOM	3520	HA	ALA	X	233	42.943	37.266	48.132	0.00	0.00
ATOM	3521	CB	ALA	X	233	41.574	37.324	46.548	0.00	0.00
ATOM	3522	HB1	ALA	X	233	41.500	38.409	46.487	0.00	0.00
ATOM	3523	HB2	ALA	X	233	42.423	37.083	45.908	0.00	0.00
ATOM	3524	HB3	ALA	X	233	40.669	36.909	46.106	0.00	0.00
ATOM	3525	C	ALA	X	233	41.022	37.488	49.026	0.00	0.00
ATOM	3526	O	ALA	X	233	41.026	38.695	49.143	0.00	0.00
ATOM	3527	N	THR	X	234	40.323	36.658	49.796	0.00	0.00
ATOM	3528	H	THR	X	234	40.740	35.748	49.934	0.00	0.00
ATOM	3529	CA	THR	X	234	39.501	37.119	51.017	0.00	0.00
ATOM	3530	HA	THR	X	234	39.832	38.143	51.189	0.00	0.00
ATOM	3531	CB	THR	X	234	37.987	37.167	50.706	0.00	0.00
ATOM	3532	HB	THR	X	234	37.573	37.320	51.703	0.00	0.00
ATOM	3533	CG2	THR	X	234	37.707	38.448	49.896	0.00	0.00
ATOM	3534	HG21	THR	X	234	38.007	39.342	50.443	0.00	0.00
ATOM	3535	HG22	THR	X	234	38.342	38.370	49.013	0.00	0.00
ATOM	3536	HG23	THR	X	234	36.638	38.492	49.685	0.00	0.00
ATOM	3537	OG1	THR	X	234	37.671	35.946	50.069	0.00	0.00
ATOM	3538	HG1	THR	X	234	37.053	35.507	50.657	0.00	0.00
ATOM	3539	C	THR	X	234	39.854	36.288	52.283	0.00	0.00
ATOM	3540	O	THR	X	234	40.282	35.132	52.156	0.00	0.00
ATOM	3541	N	VAL	X	235	39.602	36.833	53.452	0.00	0.00
ATOM	3542	H	VAL	X	235	39.131	37.721	53.546	0.00	0.00
ATOM	3543	CA	VAL	X	235	39.390	35.972	54.591	0.00	0.00
ATOM	3544	HA	VAL	X	235	39.392	34.950	54.213	0.00	0.00
ATOM	3545	CB	VAL	X	235	40.561	36.185	55.624	0.00	0.00
ATOM	3546	HB	VAL	X	235	41.561	35.980	55.240	0.00	0.00
ATOM	3547	CG1	VAL	X	235	40.682	37.672	56.188	0.00	0.00
ATOM	3548	HG11	VAL	X	235	41.737	37.823	56.415	0.00	0.00
ATOM	3549	HG12	VAL	X	235	40.290	38.381	55.459	0.00	0.00
ATOM	3550	HG13	VAL	X	235	40.076	37.920	57.060	0.00	0.00
ATOM	3551	CG2	VAL	X	235	40.454	35.300	56.871	0.00	0.00
ATOM	3552	HG21	VAL	X	235	41.384	35.218	57.433	0.00	0.00
ATOM	3553	HG22	VAL	X	235	39.663	35.766	57.458	0.00	0.00
ATOM	3554	HG23	VAL	X	235	40.282	34.267	56.566	0.00	0.00
ATOM	3555	C	VAL	X	235	38.028	36.151	55.270	0.00	0.00
ATOM	3556	O	VAL	X	235	37.475	37.273	55.213	0.00	0.00
ATOM	3557	N	GLY	X	236	37.525	35.093	55.885	0.00	0.00
ATOM	3558	H	GLY	X	236	37.999	34.207	55.984	0.00	0.00
ATOM	3559	CA	GLY	X	236	36.290	35.295	56.678	0.00	0.00
ATOM	3560	HA2	GLY	X	236	35.670	35.994	56.032	0.00	0.00
ATOM	3561	HA3	GLY	X	236	35.826	34.288	56.794	0.00	0.00
ATOM	3562	C	GLY	X	236	36.467	35.922	58.057	0.00	0.00
ATOM	3563	O	GLY	X	236	37.584	35.843	58.602	0.00	0.00
ATOM	3564	N	MET	X	237	35.383	36.509	58.536	0.00	0.00
ATOM	3565	H	MET	X	237	34.538	36.365	58.001	0.00	0.00
ATOM	3566	CA	MET	X	237	35.135	37.175	59.838	0.00	0.00
ATOM	3567	HA	MET	X	237	35.609	38.152	59.735	0.00	0.00
ATOM	3568	CB	MET	X	237	33.640	37.452	60.060	0.00	0.00
ATOM	3569	HB2	MET	X	237	33.316	37.857	59.101	0.00	0.00
ATOM	3570	HB3	MET	X	237	33.040	36.613	60.412	0.00	0.00
ATOM	3571	CG	MET	X	237	33.359	38.653	61.012	0.00	0.00
ATOM	3572	HG2	MET	X	237	33.535	38.325	62.036	0.00	0.00
ATOM	3573	HG3	MET	X	237	34.022	39.489	60.789	0.00	0.00
ATOM	3574	SD	MET	X	237	31.698	39.257	60.717	0.00	0.00

ATOM	3575	CE	MET	X	237	30.755	38.087	61.847	0.00	0.00
ATOM	3576	HE1	MET	X	237	30.771	38.470	62.868	0.00	0.00
ATOM	3577	HE2	MET	X	237	29.760	37.885	61.450	0.00	0.00
ATOM	3578	HE3	MET	X	237	31.335	37.165	61.798	0.00	0.00
ATOM	3579	C	MET	X	237	35.605	36.467	61.082	0.00	0.00
ATOM	3580	O	MET	X	237	36.313	37.082	61.913	0.00	0.00
ATOM	3581	N	GLY	X	238	35.337	35.145	61.204	0.00	0.00
ATOM	3582	H	GLY	X	238	34.838	34.555	60.553	0.00	0.00
ATOM	3583	CA	GLY	X	238	35.805	34.364	62.364	0.00	0.00
ATOM	3584	HA2	GLY	X	238	35.569	34.984	63.237	0.00	0.00
ATOM	3585	HA3	GLY	X	238	35.220	33.513	62.443	0.00	0.00
ATOM	3586	C	GLY	X	238	37.300	34.020	62.296	0.00	0.00
ATOM	3587	O	GLY	X	238	37.903	34.199	63.321	0.00	0.00
ATOM	3588	N	GLU	X	239	37.791	33.709	61.102	0.00	0.00
ATOM	3589	H	GLU	X	239	37.128	33.590	60.349	0.00	0.00
ATOM	3590	CA	GLU	X	239	39.223	33.498	60.832	0.00	0.00
ATOM	3591	HA	GLU	X	239	39.727	32.819	61.520	0.00	0.00
ATOM	3592	CB	GLU	X	239	39.359	32.897	59.471	0.00	0.00
ATOM	3593	HB2	GLU	X	239	38.717	33.534	58.864	0.00	0.00
ATOM	3594	HB3	GLU	X	239	40.402	33.083	59.214	0.00	0.00
ATOM	3595	CG	GLU	X	239	39.070	31.436	59.314	0.00	0.00
ATOM	3596	HG2	GLU	X	239	38.032	31.344	59.632	0.00	0.00
ATOM	3597	HG3	GLU	X	239	39.312	31.101	58.305	0.00	0.00
ATOM	3598	CD	GLU	X	239	39.940	30.593	60.193	0.00	0.00
ATOM	3599	OE1	GLU	X	239	39.434	30.052	61.167	0.00	0.00
ATOM	3600	OE2	GLU	X	239	41.167	30.439	59.943	0.00	0.00
ATOM	3601	C	GLU	X	239	40.066	34.804	60.986	0.00	0.00
ATOM	3602	O	GLU	X	239	41.041	34.779	61.761	0.00	0.00
ATOM	3603	N	ALA	X	240	39.551	35.908	60.573	0.00	0.00
ATOM	3604	H	ALA	X	240	38.768	35.926	59.936	0.00	0.00
ATOM	3605	CA	ALA	X	240	40.135	37.256	60.825	0.00	0.00
ATOM	3606	HA	ALA	X	240	41.124	37.306	60.369	0.00	0.00
ATOM	3607	CB	ALA	X	240	39.262	38.320	60.148	0.00	0.00
ATOM	3608	HB1	ALA	X	240	38.308	38.483	60.650	0.00	0.00
ATOM	3609	HB2	ALA	X	240	39.734	39.301	60.187	0.00	0.00
ATOM	3610	HB3	ALA	X	240	39.030	38.092	59.107	0.00	0.00
ATOM	3611	C	ALA	X	240	40.307	37.484	62.297	0.00	0.00
ATOM	3612	O	ALA	X	240	41.430	37.708	62.756	0.00	0.00
ATOM	3613	N	ARG	X	241	39.185	37.421	63.067	0.00	0.00
ATOM	3614	H	ARG	X	241	38.295	37.134	62.684	0.00	0.00
ATOM	3615	CA	ARG	X	241	39.238	37.539	64.536	0.00	0.00
ATOM	3616	HA	ARG	X	241	39.612	38.557	64.646	0.00	0.00
ATOM	3617	CB	ARG	X	241	37.763	37.463	65.216	0.00	0.00
ATOM	3618	HB2	ARG	X	241	36.991	37.849	64.551	0.00	0.00
ATOM	3619	HB3	ARG	X	241	37.509	36.403	65.241	0.00	0.00
ATOM	3620	CG	ARG	X	241	37.682	38.247	66.566	0.00	0.00
ATOM	3621	HG2	ARG	X	241	38.507	38.103	67.264	0.00	0.00
ATOM	3622	HG3	ARG	X	241	37.457	39.305	66.435	0.00	0.00
ATOM	3623	CD	ARG	X	241	36.615	37.538	67.349	0.00	0.00
ATOM	3624	HD2	ARG	X	241	35.790	37.927	66.752	0.00	0.00
ATOM	3625	HD3	ARG	X	241	36.615	36.456	67.215	0.00	0.00
ATOM	3626	NE	ARG	X	241	36.637	37.779	68.815	0.00	0.00
ATOM	3627	HE	ARG	X	241	36.877	36.973	69.374	0.00	0.00
ATOM	3628	CZ	ARG	X	241	36.482	38.920	69.456	0.00	0.00
ATOM	3629	NH1	ARG	X	241	36.119	40.002	68.906	0.00	0.00
ATOM	3630	HH11	ARG	X	241	35.613	39.920	68.036	0.00	0.00
ATOM	3631	HH12	ARG	X	241	36.227	40.864	69.420	0.00	0.00
ATOM	3632	NH2	ARG	X	241	36.842	38.994	70.746	0.00	0.00
ATOM	3633	HH21	ARG	X	241	37.213	38.160	71.178	0.00	0.00
ATOM	3634	HH22	ARG	X	241	36.833	39.915	71.160	0.00	0.00
ATOM	3635	C	ARG	X	241	40.269	36.561	65.101	0.00	0.00
ATOM	3636	O	ARG	X	241	41.096	37.003	65.892	0.00	0.00
ATOM	3637	N	ARG	X	242	40.248	35.228	64.741	0.00	0.00
ATOM	3638	H	ARG	X	242	39.488	35.091	64.091	0.00	0.00
ATOM	3639	CA	ARG	X	242	41.235	34.169	65.111	0.00	0.00
ATOM	3640	HA	ARG	X	242	41.175	34.042	66.192	0.00	0.00
ATOM	3641	CB	ARG	X	242	41.062	32.796	64.421	0.00	0.00
ATOM	3642	HB2	ARG	X	242	40.027	32.465	64.503	0.00	0.00
ATOM	3643	HB3	ARG	X	242	41.463	32.851	63.409	0.00	0.00
ATOM	3644	CG	ARG	X	242	41.875	31.651	64.973	0.00	0.00

ATOM	3645	HG2	ARG	X	242	42.905	31.968	65.140	0.00	0.00
ATOM	3646	HG3	ARG	X	242	41.513	31.426	65.976	0.00	0.00
ATOM	3647	CD	ARG	X	242	41.813	30.381	64.036	0.00	0.00
ATOM	3648	HD2	ARG	X	242	42.520	29.651	64.431	0.00	0.00
ATOM	3649	HD3	ARG	X	242	40.804	29.970	63.986	0.00	0.00
ATOM	3650	NE	ARG	X	242	42.334	30.709	62.724	0.00	0.00
ATOM	3651	HE	ARG	X	242	41.604	30.823	62.036	0.00	0.00
ATOM	3652	CZ	ARG	X	242	43.567	30.903	62.291	0.00	0.00
ATOM	3653	NH1	ARG	X	242	44.668	30.843	63.012	0.00	0.00
ATOM	3654	HH11	ARG	X	242	44.670	30.568	63.984	0.00	0.00
ATOM	3655	HH12	ARG	X	242	45.549	30.822	62.519	0.00	0.00
ATOM	3656	NH2	ARG	X	242	43.773	31.015	60.996	0.00	0.00
ATOM	3657	HH21	ARG	X	242	43.007	30.931	60.343	0.00	0.00
ATOM	3658	HH22	ARG	X	242	44.684	31.172	60.591	0.00	0.00
ATOM	3659	C	ARG	X	242	42.666	34.696	65.040	0.00	0.00
ATOM	3660	O	ARG	X	242	43.411	34.815	66.005	0.00	0.00
ATOM	3661	N	ARG	X	243	43.022	35.056	63.856	0.00	0.00
ATOM	3662	H	ARG	X	243	42.337	34.969	63.119	0.00	0.00
ATOM	3663	CA	ARG	X	243	44.350	35.488	63.503	0.00	0.00
ATOM	3664	HA	ARG	X	243	45.085	34.697	63.655	0.00	0.00
ATOM	3665	CB	ARG	X	243	44.499	35.797	62.002	0.00	0.00
ATOM	3666	HB2	ARG	X	243	43.757	36.566	61.788	0.00	0.00
ATOM	3667	HB3	ARG	X	243	45.515	36.193	61.991	0.00	0.00
ATOM	3668	CG	ARG	X	243	44.324	34.645	61.015	0.00	0.00
ATOM	3669	HG2	ARG	X	243	45.037	33.856	61.255	0.00	0.00
ATOM	3670	HG3	ARG	X	243	43.330	34.206	61.103	0.00	0.00
ATOM	3671	CD	ARG	X	243	44.553	35.212	59.617	0.00	0.00
ATOM	3672	HD2	ARG	X	243	43.896	36.072	59.491	0.00	0.00
ATOM	3673	HD3	ARG	X	243	45.505	35.717	59.457	0.00	0.00
ATOM	3674	NE	ARG	X	243	44.262	34.228	58.580	0.00	0.00
ATOM	3675	HE	ARG	X	243	43.812	33.340	58.754	0.00	0.00
ATOM	3676	CZ	ARG	X	243	44.423	34.267	57.281	0.00	0.00
ATOM	3677	NH1	ARG	X	243	45.090	35.222	56.714	0.00	0.00
ATOM	3678	HH11	ARG	X	243	45.643	35.839	57.291	0.00	0.00
ATOM	3679	HH12	ARG	X	243	45.379	35.045	55.763	0.00	0.00
ATOM	3680	NH2	ARG	X	243	44.041	33.306	56.481	0.00	0.00
ATOM	3681	HH21	ARG	X	243	43.863	32.407	56.907	0.00	0.00
ATOM	3682	HH22	ARG	X	243	43.923	33.459	55.490	0.00	0.00
ATOM	3683	C	ARG	X	243	44.865	36.686	64.360	0.00	0.00
ATOM	3684	O	ARG	X	243	45.917	36.593	65.053	0.00	0.00
ATOM	3685	N	ALA	X	244	43.984	37.709	64.382	0.00	0.00
ATOM	3686	H	ALA	X	244	43.140	37.665	63.830	0.00	0.00
ATOM	3687	CA	ALA	X	244	44.189	38.862	65.179	0.00	0.00
ATOM	3688	HA	ALA	X	244	45.117	39.332	64.854	0.00	0.00
ATOM	3689	CB	ALA	X	244	43.003	39.770	64.784	0.00	0.00
ATOM	3690	HB1	ALA	X	244	42.920	39.940	63.710	0.00	0.00
ATOM	3691	HB2	ALA	X	244	42.107	39.301	65.191	0.00	0.00
ATOM	3692	HB3	ALA	X	244	43.051	40.744	65.271	0.00	0.00
ATOM	3693	C	ALA	X	244	44.393	38.569	66.726	0.00	0.00
ATOM	3694	O	ALA	X	244	45.365	39.028	67.353	0.00	0.00
ATOM	3695	N	THR	X	245	43.528	37.724	67.327	0.00	0.00
ATOM	3696	H	THR	X	245	42.763	37.420	66.742	0.00	0.00
ATOM	3697	CA	THR	X	245	43.636	37.057	68.646	0.00	0.00
ATOM	3698	HA	THR	X	245	43.697	37.802	69.439	0.00	0.00
ATOM	3699	CB	THR	X	245	42.484	35.981	68.887	0.00	0.00
ATOM	3700	HB	THR	X	245	42.515	35.140	68.194	0.00	0.00
ATOM	3701	CG2	THR	X	245	42.458	35.291	70.274	0.00	0.00
ATOM	3702	HG21	THR	X	245	43.357	34.676	70.310	0.00	0.00
ATOM	3703	HG22	THR	X	245	42.419	35.975	71.123	0.00	0.00
ATOM	3704	HG23	THR	X	245	41.597	34.626	70.199	0.00	0.00
ATOM	3705	OG1	THR	X	245	41.301	36.722	68.820	0.00	0.00
ATOM	3706	HG1	THR	X	245	41.002	36.632	67.912	0.00	0.00
ATOM	3707	C	THR	X	245	45.029	36.393	68.889	0.00	0.00
ATOM	3708	O	THR	X	245	45.717	36.617	69.876	0.00	0.00
ATOM	3709	N	GLN	X	246	45.385	35.510	67.995	0.00	0.00
ATOM	3710	H	GLN	X	246	44.803	35.475	67.171	0.00	0.00
ATOM	3711	CA	GLN	X	246	46.529	34.605	68.177	0.00	0.00
ATOM	3712	HA	GLN	X	246	46.667	34.203	69.181	0.00	0.00
ATOM	3713	CB	GLN	X	246	46.597	33.362	67.202	0.00	0.00
ATOM	3714	HB2	GLN	X	246	46.432	33.742	66.194	0.00	0.00

ATOM	3715	HB3	GLN	X	246	47.630	33.016	67.245	0.00	0.00
ATOM	3716	CG	GLN	X	246	45.741	32.082	67.442	0.00	0.00
ATOM	3717	HG2	GLN	X	246	46.112	31.793	68.426	0.00	0.00
ATOM	3718	HG3	GLN	X	246	44.692	32.357	67.333	0.00	0.00
ATOM	3719	CD	GLN	X	246	45.979	31.058	66.326	0.00	0.00
ATOM	3720	OE1	GLN	X	246	45.101	30.476	65.767	0.00	0.00
ATOM	3721	NE2	GLN	X	246	47.180	30.575	66.122	0.00	0.00
ATOM	3722	HE21	GLN	X	246	47.276	29.749	65.548	0.00	0.00
ATOM	3723	HE22	GLN	X	246	47.908	30.821	66.778	0.00	0.00
ATOM	3724	C	GLN	X	246	47.856	35.432	68.055	0.00	0.00
ATOM	3725	O	GLN	X	246	48.849	35.161	68.650	0.00	0.00
ATOM	3726	N	LEU	X	247	47.782	36.531	67.275	0.00	0.00
ATOM	3727	H	LEU	X	247	46.952	36.636	66.708	0.00	0.00
ATOM	3728	CA	LEU	X	247	48.891	37.509	67.106	0.00	0.00
ATOM	3729	HA	LEU	X	247	49.772	36.878	67.224	0.00	0.00
ATOM	3730	CB	LEU	X	247	48.772	38.257	65.790	0.00	0.00
ATOM	3731	HB2	LEU	X	247	48.693	37.535	64.978	0.00	0.00
ATOM	3732	HB3	LEU	X	247	47.807	38.750	65.908	0.00	0.00
ATOM	3733	CG	LEU	X	247	49.835	39.309	65.383	0.00	0.00
ATOM	3734	HG	LEU	X	247	49.650	40.165	66.031	0.00	0.00
ATOM	3735	CD1	LEU	X	247	51.344	38.942	65.589	0.00	0.00
ATOM	3736	HD11	LEU	X	247	51.551	38.893	66.658	0.00	0.00
ATOM	3737	HD12	LEU	X	247	51.607	38.025	65.062	0.00	0.00
ATOM	3738	HD13	LEU	X	247	51.968	39.733	65.174	0.00	0.00
ATOM	3739	CD2	LEU	X	247	49.456	39.723	63.929	0.00	0.00
ATOM	3740	HD21	LEU	X	247	49.999	40.619	63.629	0.00	0.00
ATOM	3741	HD22	LEU	X	247	49.778	38.868	63.335	0.00	0.00
ATOM	3742	HD23	LEU	X	247	48.398	39.926	63.763	0.00	0.00
ATOM	3743	C	LEU	X	247	48.919	38.473	68.341	0.00	0.00
ATOM	3744	O	LEU	X	247	50.025	38.796	68.822	0.00	0.00
ATOM	3745	N	ALA	X	248	47.739	38.983	68.756	0.00	0.00
ATOM	3746	H	ALA	X	248	46.839	38.895	68.307	0.00	0.00
ATOM	3747	CA	ALA	X	248	47.617	39.703	69.971	0.00	0.00
ATOM	3748	HA	ALA	X	248	48.306	40.543	69.888	0.00	0.00
ATOM	3749	CB	ALA	X	248	46.137	40.119	70.206	0.00	0.00
ATOM	3750	HB1	ALA	X	248	46.003	40.841	69.401	0.00	0.00
ATOM	3751	HB2	ALA	X	248	45.474	39.257	70.134	0.00	0.00
ATOM	3752	HB3	ALA	X	248	46.023	40.516	71.215	0.00	0.00
ATOM	3753	C	ALA	X	248	48.170	39.041	71.192	0.00	0.00
ATOM	3754	O	ALA	X	248	48.982	39.636	71.881	0.00	0.00
ATOM	3755	N	HIE	X	249	47.935	37.747	71.301	0.00	0.00
ATOM	3756	H	HIE	X	249	47.235	37.385	70.669	0.00	0.00
ATOM	3757	CA	HIE	X	249	48.539	36.832	72.262	0.00	0.00
ATOM	3758	HA	HIE	X	249	48.287	37.219	73.249	0.00	0.00
ATOM	3759	CB	HIE	X	249	48.009	35.396	72.099	0.00	0.00
ATOM	3760	HB2	HIE	X	249	46.937	35.548	71.972	0.00	0.00
ATOM	3761	HB3	HIE	X	249	48.257	34.849	71.190	0.00	0.00
ATOM	3762	CG	HIE	X	249	48.366	34.530	73.275	0.00	0.00
ATOM	3763	ND1	HIE	X	249	47.718	34.671	74.577	0.00	0.00
ATOM	3764	CE1	HIE	X	249	48.259	33.713	75.321	0.00	0.00
ATOM	3765	HE1	HIE	X	249	47.940	33.399	76.303	0.00	0.00
ATOM	3766	NE2	HIE	X	249	49.172	32.953	74.656	0.00	0.00
ATOM	3767	HE2	HIE	X	249	49.598	32.078	74.927	0.00	0.00
ATOM	3768	CD2	HIE	X	249	49.209	33.462	73.352	0.00	0.00
ATOM	3769	HD2	HIE	X	249	49.826	33.064	72.560	0.00	0.00
ATOM	3770	C	HIE	X	249	50.079	36.808	72.234	0.00	0.00
ATOM	3771	O	HIE	X	249	50.774	36.672	73.251	0.00	0.00
ATOM	3772	N	LEU	X	250	50.774	36.940	71.069	0.00	0.00
ATOM	3773	H	LEU	X	250	50.246	37.119	70.227	0.00	0.00
ATOM	3774	CA	LEU	X	250	52.245	36.999	70.885	0.00	0.00
ATOM	3775	HA	LEU	X	250	52.797	36.285	71.495	0.00	0.00
ATOM	3776	CB	LEU	X	250	52.563	36.526	69.420	0.00	0.00
ATOM	3777	HB2	LEU	X	250	51.906	36.937	68.653	0.00	0.00
ATOM	3778	HB3	LEU	X	250	53.533	36.924	69.123	0.00	0.00
ATOM	3779	CG	LEU	X	250	52.687	34.948	69.303	0.00	0.00
ATOM	3780	HG	LEU	X	250	51.994	34.497	70.013	0.00	0.00
ATOM	3781	CD1	LEU	X	250	52.092	34.534	67.924	0.00	0.00
ATOM	3782	HD11	LEU	X	250	52.159	33.469	67.705	0.00	0.00
ATOM	3783	HD12	LEU	X	250	51.069	34.851	67.720	0.00	0.00
ATOM	3784	HD13	LEU	X	250	52.820	34.880	67.190	0.00	0.00

ATOM	3785	CD2	LEU	X	250	54.062	34.396	69.392	0.00	0.00
ATOM	3786	HD21	LEU	X	250	54.556	34.654	70.329	0.00	0.00
ATOM	3787	HD22	LEU	X	250	54.073	33.318	69.233	0.00	0.00
ATOM	3788	HD23	LEU	X	250	54.718	34.830	68.638	0.00	0.00
ATOM	3789	C	LEU	X	250	52.791	38.456	71.211	0.00	0.00
ATOM	3790	O	LEU	X	250	53.738	38.675	72.004	0.00	0.00
ATOM	3791	N	VAL	X	251	52.157	39.493	70.704	0.00	0.00
ATOM	3792	H	VAL	X	251	51.398	39.325	70.059	0.00	0.00
ATOM	3793	CA	VAL	X	251	52.480	40.953	71.014	0.00	0.00
ATOM	3794	HA	VAL	X	251	53.488	41.166	70.657	0.00	0.00
ATOM	3795	CB	VAL	X	251	51.539	41.859	70.211	0.00	0.00
ATOM	3796	HB	VAL	X	251	50.531	41.518	70.444	0.00	0.00
ATOM	3797	CG1	VAL	X	251	51.479	43.390	70.600	0.00	0.00
ATOM	3798	HG11	VAL	X	251	51.187	44.019	69.759	0.00	0.00
ATOM	3799	HG12	VAL	X	251	50.752	43.510	71.403	0.00	0.00
ATOM	3800	HG13	VAL	X	251	52.463	43.760	70.888	0.00	0.00
ATOM	3801	CG2	VAL	X	251	51.820	41.802	68.716	0.00	0.00
ATOM	3802	HG21	VAL	X	251	50.877	41.883	68.176	0.00	0.00
ATOM	3803	HG22	VAL	X	251	52.427	42.647	68.392	0.00	0.00
ATOM	3804	HG23	VAL	X	251	52.054	40.752	68.540	0.00	0.00
ATOM	3805	C	VAL	X	251	52.411	41.308	72.514	0.00	0.00
ATOM	3806	O	VAL	X	251	53.142	42.203	72.985	0.00	0.00
ATOM	3807	N	GLY	X	252	51.518	40.602	73.258	0.00	0.00
ATOM	3808	H	GLY	X	252	51.198	39.737	72.847	0.00	0.00
ATOM	3809	CA	GLY	X	252	51.228	40.889	74.670	0.00	0.00
ATOM	3810	HA2	GLY	X	252	51.243	39.926	75.134	0.00	0.00
ATOM	3811	HA3	GLY	X	252	52.090	41.496	75.045	0.00	0.00
ATOM	3812	C	GLY	X	252	49.879	41.586	74.967	0.00	0.00
ATOM	3813	O	GLY	X	252	49.665	42.109	76.087	0.00	0.00
ATOM	3814	N	CYX	X	253	48.899	41.520	74.099	0.00	0.00
ATOM	3815	H	CYX	X	253	49.116	41.030	73.244	0.00	0.00
ATOM	3816	CA	CYX	X	253	47.596	42.141	74.317	0.00	0.00
ATOM	3817	HA	CYX	X	253	47.624	42.859	75.137	0.00	0.00
ATOM	3818	CB	CYX	X	253	47.331	43.063	73.106	0.00	0.00
ATOM	3819	HB2	CYX	X	253	47.131	42.443	72.232	0.00	0.00
ATOM	3820	HB3	CYX	X	253	46.426	43.607	73.377	0.00	0.00
ATOM	3821	SG	CYX	X	253	48.659	44.292	72.783	0.00	0.00
ATOM	3822	C	CYX	X	253	46.336	41.293	74.623	0.00	0.00
ATOM	3823	O	CYX	X	253	46.225	40.282	74.048	0.00	0.00
ATOM	3824	N	PRO	X	254	45.432	41.642	75.510	0.00	0.00
ATOM	3825	CD	PRO	X	254	44.257	40.833	75.773	0.00	0.00
ATOM	3826	HD2	PRO	X	254	44.609	39.875	76.156	0.00	0.00
ATOM	3827	HD3	PRO	X	254	43.572	40.797	74.925	0.00	0.00
ATOM	3828	CG	PRO	X	254	43.419	41.562	76.868	0.00	0.00
ATOM	3829	HG2	PRO	X	254	43.219	41.031	77.798	0.00	0.00
ATOM	3830	HG3	PRO	X	254	42.400	41.678	76.499	0.00	0.00
ATOM	3831	CB	PRO	X	254	44.100	42.945	76.966	0.00	0.00
ATOM	3832	HB2	PRO	X	254	44.079	43.302	77.996	0.00	0.00
ATOM	3833	HB3	PRO	X	254	43.544	43.621	76.316	0.00	0.00
ATOM	3834	CA	PRO	X	254	45.465	42.798	76.486	0.00	0.00
ATOM	3835	HA	PRO	X	254	45.775	43.694	75.949	0.00	0.00
ATOM	3836	C	PRO	X	254	46.402	42.391	77.690	0.00	0.00
ATOM	3837	O	PRO	X	254	46.535	41.185	77.943	0.00	0.00
ATOM	3838	N	PRO	X	255	47.085	43.342	78.352	0.00	0.00
ATOM	3839	CD	PRO	X	255	47.002	44.780	78.094	0.00	0.00
ATOM	3840	HD2	PRO	X	255	45.956	45.063	77.972	0.00	0.00
ATOM	3841	HD3	PRO	X	255	47.476	44.918	77.122	0.00	0.00
ATOM	3842	CG	PRO	X	255	47.760	45.497	79.153	0.00	0.00
ATOM	3843	HG2	PRO	X	255	47.114	45.737	79.997	0.00	0.00
ATOM	3844	HG3	PRO	X	255	48.283	46.338	78.699	0.00	0.00
ATOM	3845	CB	PRO	X	255	48.764	44.402	79.623	0.00	0.00
ATOM	3846	HB2	PRO	X	255	48.986	44.556	80.679	0.00	0.00
ATOM	3847	HB3	PRO	X	255	49.569	44.278	78.899	0.00	0.00
ATOM	3848	CA	PRO	X	255	47.962	43.080	79.434	0.00	0.00
ATOM	3849	HA	PRO	X	255	48.626	42.329	79.005	0.00	0.00
ATOM	3850	C	PRO	X	255	47.218	42.604	80.662	0.00	0.00
ATOM	3851	O	PRO	X	255	46.107	42.932	80.954	0.00	0.00
ATOM	3852	N	GLY	X	256	47.988	41.787	81.380	0.00	0.00
ATOM	3853	H	GLY	X	256	48.947	41.759	81.066	0.00	0.00
ATOM	3854	CA	GLY	X	256	47.372	40.986	82.470	0.00	0.00

ATOM	3855	HA2	GLY	X	256	46.343	40.663	82.189	0.00	0.00
ATOM	3856	HA3	GLY	X	256	48.112	40.222	82.734	0.00	0.00
ATOM	3857	C	GLY	X	256	47.107	41.734	83.806	0.00	0.00
ATOM	3858	O	GLY	X	256	47.549	42.883	83.981	0.00	0.00
ATOM	3859	N	GLY	X	257	46.499	41.066	84.788	0.00	0.00
ATOM	3860	H	GLY	X	257	46.133	40.138	84.634	0.00	0.00
ATOM	3861	CA	GLY	X	257	46.073	41.779	86.082	0.00	0.00
ATOM	3862	HA2	GLY	X	257	46.113	41.119	86.937	0.00	0.00
ATOM	3863	HA3	GLY	X	257	46.636	42.696	86.335	0.00	0.00
ATOM	3864	C	GLY	X	257	44.672	42.377	85.992	0.00	0.00
ATOM	3865	O	GLY	X	257	43.837	42.189	86.880	0.00	0.00
ATOM	3866	N	THR	X	258	44.378	43.105	84.901	0.00	0.00
ATOM	3867	H	THR	X	258	45.220	43.266	84.367	0.00	0.00
ATOM	3868	CA	THR	X	258	43.074	43.763	84.543	0.00	0.00
ATOM	3869	HA	THR	X	258	42.459	43.962	85.421	0.00	0.00
ATOM	3870	CB	THR	X	258	43.367	45.096	83.855	0.00	0.00
ATOM	3871	HB	THR	X	258	42.520	45.396	83.238	0.00	0.00
ATOM	3872	CG2	THR	X	258	43.796	46.158	84.932	0.00	0.00
ATOM	3873	HG21	THR	X	258	43.043	46.505	85.640	0.00	0.00
ATOM	3874	HG22	THR	X	258	44.626	45.789	85.534	0.00	0.00
ATOM	3875	HG23	THR	X	258	44.376	46.951	84.461	0.00	0.00
ATOM	3876	OG1	THR	X	258	44.377	45.058	82.924	0.00	0.00
ATOM	3877	HG1	THR	X	258	44.177	45.766	82.307	0.00	0.00
ATOM	3878	C	THR	X	258	42.272	42.790	83.708	0.00	0.00
ATOM	3879	O	THR	X	258	42.837	41.814	83.153	0.00	0.00
ATOM	3880	N	GLY	X	259	41.017	43.040	83.543	0.00	0.00
ATOM	3881	H	GLY	X	259	40.549	43.892	83.817	0.00	0.00
ATOM	3882	CA	GLY	X	259	40.230	42.169	82.696	0.00	0.00
ATOM	3883	HA2	GLY	X	259	40.385	41.164	82.982	0.00	0.00
ATOM	3884	HA3	GLY	X	259	39.147	42.335	82.768	0.00	0.00
ATOM	3885	C	GLY	X	259	40.469	42.378	81.144	0.00	0.00
ATOM	3886	O	GLY	X	259	40.909	43.473	80.769	0.00	0.00
ATOM	3887	N	GLY	X	260	40.065	41.350	80.418	0.00	0.00
ATOM	3888	H	GLY	X	260	39.761	40.518	80.903	0.00	0.00
ATOM	3889	CA	GLY	X	260	40.084	41.378	79.008	0.00	0.00
ATOM	3890	HA2	GLY	X	260	40.852	42.101	78.696	0.00	0.00
ATOM	3891	HA3	GLY	X	260	40.364	40.416	78.672	0.00	0.00
ATOM	3892	C	GLY	X	260	38.745	41.759	78.350	0.00	0.00
ATOM	3893	O	GLY	X	260	37.697	41.324	78.842	0.00	0.00
ATOM	3894	N	ASN	X	261	38.877	42.412	77.219	0.00	0.00
ATOM	3895	H	ASN	X	261	39.785	42.635	76.838	0.00	0.00
ATOM	3896	CA	ASN	X	261	37.886	42.990	76.377	0.00	0.00
ATOM	3897	HA	ASN	X	261	37.275	42.123	76.125	0.00	0.00
ATOM	3898	CB	ASN	X	261	37.002	44.011	77.134	0.00	0.00
ATOM	3899	HB2	ASN	X	261	36.130	44.176	76.501	0.00	0.00
ATOM	3900	HB3	ASN	X	261	36.703	43.694	78.134	0.00	0.00
ATOM	3901	CG	ASN	X	261	37.803	45.272	77.328	0.00	0.00
ATOM	3902	OD1	ASN	X	261	37.943	46.069	76.431	0.00	0.00
ATOM	3903	ND2	ASN	X	261	38.345	45.578	78.522	0.00	0.00
ATOM	3904	HD21	ASN	X	261	38.796	46.473	78.647	0.00	0.00
ATOM	3905	HD22	ASN	X	261	38.182	44.999	79.334	0.00	0.00
ATOM	3906	C	ASN	X	261	38.581	43.517	75.134	0.00	0.00
ATOM	3907	O	ASN	X	261	39.814	43.798	75.116	0.00	0.00
ATOM	3908	N	ASP	X	262	37.879	43.767	74.061	0.00	0.00
ATOM	3909	H	ASP	X	262	36.901	43.603	74.250	0.00	0.00
ATOM	3910	CA	ASP	X	262	38.427	44.154	72.722	0.00	0.00
ATOM	3911	HA	ASP	X	262	39.260	43.541	72.378	0.00	0.00
ATOM	3912	CB	ASP	X	262	37.355	44.032	71.617	0.00	0.00
ATOM	3913	HB2	ASP	X	262	36.414	44.491	71.919	0.00	0.00
ATOM	3914	HB3	ASP	X	262	37.666	44.633	70.762	0.00	0.00
ATOM	3915	CG	ASP	X	262	37.027	42.562	71.164	0.00	0.00
ATOM	3916	OD1	ASP	X	262	37.598	41.563	71.720	0.00	0.00
ATOM	3917	OD2	ASP	X	262	36.058	42.390	70.358	0.00	0.00
ATOM	3918	C	ASP	X	262	38.974	45.561	72.605	0.00	0.00
ATOM	3919	O	ASP	X	262	40.040	45.739	71.985	0.00	0.00
ATOM	3920	N	THR	X	263	38.342	46.524	73.210	0.00	0.00
ATOM	3921	H	THR	X	263	37.449	46.267	73.606	0.00	0.00
ATOM	3922	CA	THR	X	263	38.719	47.908	73.369	0.00	0.00
ATOM	3923	HA	THR	X	263	38.938	48.245	72.356	0.00	0.00
ATOM	3924	CB	THR	X	263	37.603	48.665	74.071	0.00	0.00

ATOM	3925	HB	THR	X	263	37.685	48.345	75.109	0.00	0.00
ATOM	3926	CG2	THR	X	263	37.809	50.211	74.164	0.00	0.00
ATOM	3927	HG21	THR	X	263	37.523	50.700	73.233	0.00	0.00
ATOM	3928	HG22	THR	X	263	37.367	50.506	75.116	0.00	0.00
ATOM	3929	HG23	THR	X	263	38.877	50.425	74.144	0.00	0.00
ATOM	3930	OG1	THR	X	263	36.322	48.322	73.655	0.00	0.00
ATOM	3931	HG1	THR	X	263	36.272	48.821	72.837	0.00	0.00
ATOM	3932	C	THR	X	263	40.097	48.044	74.066	0.00	0.00
ATOM	3933	O	THR	X	263	41.007	48.781	73.743	0.00	0.00
ATOM	3934	N	GLU	X	264	40.402	47.198	75.100	0.00	0.00
ATOM	3935	H	GLU	X	264	39.696	46.552	75.424	0.00	0.00
ATOM	3936	CA	GLU	X	264	41.679	47.143	75.831	0.00	0.00
ATOM	3937	HA	GLU	X	264	42.178	48.102	75.690	0.00	0.00
ATOM	3938	CB	GLU	X	264	41.469	47.027	77.362	0.00	0.00
ATOM	3939	HB2	GLU	X	264	40.580	46.427	77.557	0.00	0.00
ATOM	3940	HB3	GLU	X	264	42.370	46.497	77.671	0.00	0.00
ATOM	3941	CG	GLU	X	264	41.239	48.276	78.137	0.00	0.00
ATOM	3942	HG2	GLU	X	264	42.161	48.857	78.109	0.00	0.00
ATOM	3943	HG3	GLU	X	264	40.423	48.847	77.693	0.00	0.00
ATOM	3944	CD	GLU	X	264	40.784	47.950	79.558	0.00	0.00
ATOM	3945	OE1	GLU	X	264	39.551	48.126	79.899	0.00	0.00
ATOM	3946	OE2	GLU	X	264	41.652	47.455	80.257	0.00	0.00
ATOM	3947	C	GLU	X	264	42.717	46.188	75.260	0.00	0.00
ATOM	3948	O	GLU	X	264	43.901	46.317	75.536	0.00	0.00
ATOM	3949	N	LEU	X	265	42.320	45.334	74.304	0.00	0.00
ATOM	3950	H	LEU	X	265	41.347	45.085	74.203	0.00	0.00
ATOM	3951	CA	LEU	X	265	43.227	44.553	73.411	0.00	0.00
ATOM	3952	HA	LEU	X	265	44.082	44.151	73.955	0.00	0.00
ATOM	3953	CB	LEU	X	265	42.455	43.330	72.897	0.00	0.00
ATOM	3954	HB2	LEU	X	265	41.898	42.813	73.678	0.00	0.00
ATOM	3955	HB3	LEU	X	265	41.700	43.721	72.215	0.00	0.00
ATOM	3956	CG	LEU	X	265	43.369	42.330	72.139	0.00	0.00
ATOM	3957	HG	LEU	X	265	44.283	42.024	72.647	0.00	0.00
ATOM	3958	CD1	LEU	X	265	42.420	41.087	71.902	0.00	0.00
ATOM	3959	HD11	LEU	X	265	42.350	40.481	72.805	0.00	0.00
ATOM	3960	HD12	LEU	X	265	41.477	41.502	71.546	0.00	0.00
ATOM	3961	HD13	LEU	X	265	43.034	40.506	71.215	0.00	0.00
ATOM	3962	CD2	LEU	X	265	43.794	42.960	70.772	0.00	0.00
ATOM	3963	HD21	LEU	X	265	43.958	42.081	70.149	0.00	0.00
ATOM	3964	HD22	LEU	X	265	43.036	43.582	70.295	0.00	0.00
ATOM	3965	HD23	LEU	X	265	44.776	43.426	70.855	0.00	0.00
ATOM	3966	C	LEU	X	265	43.731	45.609	72.300	0.00	0.00
ATOM	3967	O	LEU	X	265	44.931	45.856	72.292	0.00	0.00
ATOM	3968	N	VAL	X	266	42.847	46.090	71.417	0.00	0.00
ATOM	3969	H	VAL	X	266	41.881	45.881	71.621	0.00	0.00
ATOM	3970	CA	VAL	X	266	43.090	46.886	70.189	0.00	0.00
ATOM	3971	HA	VAL	X	266	43.778	46.304	69.576	0.00	0.00
ATOM	3972	CB	VAL	X	266	41.741	47.111	69.521	0.00	0.00
ATOM	3973	HB	VAL	X	266	41.126	47.568	70.296	0.00	0.00
ATOM	3974	CG1	VAL	X	266	41.999	47.960	68.255	0.00	0.00
ATOM	3975	HG11	VAL	X	266	42.311	48.976	68.498	0.00	0.00
ATOM	3976	HG12	VAL	X	266	42.755	47.453	67.655	0.00	0.00
ATOM	3977	HG13	VAL	X	266	41.086	48.027	67.663	0.00	0.00
ATOM	3978	CG2	VAL	X	266	41.140	45.831	69.037	0.00	0.00
ATOM	3979	HG21	VAL	X	266	41.898	45.347	68.421	0.00	0.00
ATOM	3980	HG22	VAL	X	266	40.951	45.107	69.829	0.00	0.00
ATOM	3981	HG23	VAL	X	266	40.208	46.010	68.501	0.00	0.00
ATOM	3982	C	VAL	X	266	43.767	48.173	70.702	0.00	0.00
ATOM	3983	O	VAL	X	266	44.664	48.649	69.938	0.00	0.00
ATOM	3984	N	ALA	X	267	43.454	48.735	71.819	0.00	0.00
ATOM	3985	H	ALA	X	267	42.581	48.455	72.243	0.00	0.00
ATOM	3986	CA	ALA	X	267	44.316	49.812	72.265	0.00	0.00
ATOM	3987	HA	ALA	X	267	44.259	50.676	71.604	0.00	0.00
ATOM	3988	CB	ALA	X	267	43.779	50.465	73.547	0.00	0.00
ATOM	3989	HB1	ALA	X	267	44.359	51.350	73.810	0.00	0.00
ATOM	3990	HB2	ALA	X	267	42.743	50.734	73.344	0.00	0.00
ATOM	3991	HB3	ALA	X	267	43.754	49.775	74.391	0.00	0.00
ATOM	3992	C	ALA	X	267	45.740	49.442	72.432	0.00	0.00
ATOM	3993	O	ALA	X	267	46.642	49.973	71.757	0.00	0.00
ATOM	3994	N	CYX	X	268	46.059	48.403	73.227	0.00	0.00

ATOM	3995	H	CYX	X	268	45.263	48.065	73.749	0.00	0.00
ATOM	3996	CA	CYX	X	268	47.332	47.772	73.401	0.00	0.00
ATOM	3997	HA	CYX	X	268	47.921	48.553	73.882	0.00	0.00
ATOM	3998	CB	CYX	X	268	47.228	46.588	74.380	0.00	0.00
ATOM	3999	HB2	CYX	X	268	47.042	47.035	75.357	0.00	0.00
ATOM	4000	HB3	CYX	X	268	46.349	45.984	74.156	0.00	0.00
ATOM	4001	SG	CYX	X	268	48.719	45.475	74.284	0.00	0.00
ATOM	4002	C	CYX	X	268	47.997	47.456	72.009	0.00	0.00
ATOM	4003	O	CYX	X	268	49.180	47.545	71.844	0.00	0.00
ATOM	4004	N	LEU	X	269	47.224	47.074	71.003	0.00	0.00
ATOM	4005	H	LEU	X	269	46.244	46.890	71.161	0.00	0.00
ATOM	4006	CA	LEU	X	269	47.782	46.626	69.732	0.00	0.00
ATOM	4007	HA	LEU	X	269	48.711	46.150	70.046	0.00	0.00
ATOM	4008	CB	LEU	X	269	46.828	45.584	69.230	0.00	0.00
ATOM	4009	HB2	LEU	X	269	46.525	45.019	70.111	0.00	0.00
ATOM	4010	HB3	LEU	X	269	46.080	46.237	68.781	0.00	0.00
ATOM	4011	CG	LEU	X	269	47.380	44.539	68.198	0.00	0.00
ATOM	4012	HG	LEU	X	269	48.018	45.061	67.486	0.00	0.00
ATOM	4013	CD1	LEU	X	269	48.260	43.566	68.975	0.00	0.00
ATOM	4014	HD11	LEU	X	269	48.817	42.857	68.363	0.00	0.00
ATOM	4015	HD12	LEU	X	269	49.069	44.126	69.446	0.00	0.00
ATOM	4016	HD13	LEU	X	269	47.864	43.024	69.834	0.00	0.00
ATOM	4017	CD2	LEU	X	269	46.417	43.749	67.281	0.00	0.00
ATOM	4018	HD21	LEU	X	269	45.858	44.419	66.628	0.00	0.00
ATOM	4019	HD22	LEU	X	269	47.054	43.159	66.622	0.00	0.00
ATOM	4020	HD23	LEU	X	269	45.699	43.115	67.802	0.00	0.00
ATOM	4021	C	LEU	X	269	47.990	47.799	68.715	0.00	0.00
ATOM	4022	O	LEU	X	269	48.451	47.572	67.593	0.00	0.00
ATOM	4023	N	ARG	X	270	47.647	49.016	69.145	0.00	0.00
ATOM	4024	H	ARG	X	270	47.221	49.041	70.060	0.00	0.00
ATOM	4025	CA	ARG	X	270	47.850	50.219	68.410	0.00	0.00
ATOM	4026	HA	ARG	X	270	48.287	49.992	67.438	0.00	0.00
ATOM	4027	CB	ARG	X	270	46.508	50.958	68.237	0.00	0.00
ATOM	4028	HB2	ARG	X	270	46.046	50.944	69.224	0.00	0.00
ATOM	4029	HB3	ARG	X	270	46.657	51.986	67.909	0.00	0.00
ATOM	4030	CG	ARG	X	270	45.517	50.385	67.222	0.00	0.00
ATOM	4031	HG2	ARG	X	270	46.006	50.247	66.258	0.00	0.00
ATOM	4032	HG3	ARG	X	270	45.291	49.381	67.582	0.00	0.00
ATOM	4033	CD	ARG	X	270	44.372	51.273	66.953	0.00	0.00
ATOM	4034	HD2	ARG	X	270	44.920	52.181	66.701	0.00	0.00
ATOM	4035	HD3	ARG	X	270	43.854	50.901	66.069	0.00	0.00
ATOM	4036	NE	ARG	X	270	43.502	51.280	68.069	0.00	0.00
ATOM	4037	HE	ARG	X	270	43.771	50.565	68.729	0.00	0.00
ATOM	4038	CZ	ARG	X	270	42.390	51.913	68.162	0.00	0.00
ATOM	4039	NH1	ARG	X	270	41.876	52.677	67.203	0.00	0.00
ATOM	4040	HH11	ARG	X	270	42.258	52.761	66.271	0.00	0.00
ATOM	4041	HH12	ARG	X	270	41.093	53.264	67.454	0.00	0.00
ATOM	4042	NH2	ARG	X	270	41.643	51.767	69.197	0.00	0.00
ATOM	4043	HH21	ARG	X	270	41.855	51.095	69.921	0.00	0.00
ATOM	4044	HH22	ARG	X	270	40.844	52.357	69.379	0.00	0.00
ATOM	4045	C	ARG	X	270	48.946	51.076	69.113	0.00	0.00
ATOM	4046	O	ARG	X	270	49.678	51.771	68.433	0.00	0.00
ATOM	4047	N	THR	X	271	48.979	51.021	70.479	0.00	0.00
ATOM	4048	H	THR	X	271	48.184	50.616	70.953	0.00	0.00
ATOM	4049	CA	THR	X	271	50.075	51.629	71.238	0.00	0.00
ATOM	4050	HA	THR	X	271	50.395	52.529	70.713	0.00	0.00
ATOM	4051	CB	THR	X	271	49.601	51.964	72.662	0.00	0.00
ATOM	4052	HB	THR	X	271	50.399	52.478	73.197	0.00	0.00
ATOM	4053	CG2	THR	X	271	48.349	52.838	72.838	0.00	0.00
ATOM	4054	HG21	THR	X	271	48.041	52.925	73.880	0.00	0.00
ATOM	4055	HG22	THR	X	271	48.517	53.882	72.576	0.00	0.00
ATOM	4056	HG23	THR	X	271	47.541	52.392	72.256	0.00	0.00
ATOM	4057	OG1	THR	X	271	49.448	50.864	73.341	0.00	0.00
ATOM	4058	HG1	THR	X	271	50.350	50.745	73.646	0.00	0.00
ATOM	4059	C	THR	X	271	51.389	50.857	71.176	0.00	0.00
ATOM	4060	O	THR	X	271	52.465	51.507	71.178	0.00	0.00
ATOM	4061	N	ARG	X	272	51.432	49.504	71.168	0.00	0.00
ATOM	4062	H	ARG	X	272	50.551	49.019	71.074	0.00	0.00
ATOM	4063	CA	ARG	X	272	52.703	48.796	71.151	0.00	0.00
ATOM	4064	HA	ARG	X	272	53.333	49.246	71.918	0.00	0.00

ATOM	4065	CB	ARG	X	272	52.400	47.316	71.553	0.00	0.00
ATOM	4066	HB2	ARG	X	272	51.567	46.886	70.997	0.00	0.00
ATOM	4067	HB3	ARG	X	272	53.246	46.683	71.283	0.00	0.00
ATOM	4068	CG	ARG	X	272	52.234	47.175	73.139	0.00	0.00
ATOM	4069	HG2	ARG	X	272	52.971	47.734	73.716	0.00	0.00
ATOM	4070	HG3	ARG	X	272	51.229	47.376	73.511	0.00	0.00
ATOM	4071	CD	ARG	X	272	52.377	45.727	73.591	0.00	0.00
ATOM	4072	HD2	ARG	X	272	51.559	45.182	73.122	0.00	0.00
ATOM	4073	HD3	ARG	X	272	53.380	45.392	73.326	0.00	0.00
ATOM	4074	NE	ARG	X	272	52.242	45.632	75.034	0.00	0.00
ATOM	4075	HE	ARG	X	272	51.783	46.385	75.528	0.00	0.00
ATOM	4076	CZ	ARG	X	272	52.763	44.770	75.875	0.00	0.00
ATOM	4077	NH1	ARG	X	272	53.475	43.742	75.414	0.00	0.00
ATOM	4078	HH11	ARG	X	272	53.583	43.615	74.418	0.00	0.00
ATOM	4079	HH12	ARG	X	272	54.101	43.235	76.024	0.00	0.00
ATOM	4080	NH2	ARG	X	272	52.511	44.797	77.142	0.00	0.00
ATOM	4081	HH21	ARG	X	272	51.920	45.544	77.477	0.00	0.00
ATOM	4082	HH22	ARG	X	272	52.777	44.034	77.749	0.00	0.00
ATOM	4083	C	ARG	X	272	53.282	49.057	69.765	0.00	0.00
ATOM	4084	O	ARG	X	272	52.608	49.353	68.757	0.00	0.00
ATOM	4085	N	PRO	X	273	54.626	48.973	69.609	0.00	0.00
ATOM	4086	CD	PRO	X	273	55.611	48.613	70.666	0.00	0.00
ATOM	4087	HD2	PRO	X	273	55.799	47.546	70.783	0.00	0.00
ATOM	4088	HD3	PRO	X	273	55.232	49.088	71.572	0.00	0.00
ATOM	4089	CG	PRO	X	273	56.907	49.306	70.211	0.00	0.00
ATOM	4090	HG2	PRO	X	273	57.812	48.813	70.566	0.00	0.00
ATOM	4091	HG3	PRO	X	273	56.943	50.337	70.562	0.00	0.00
ATOM	4092	CB	PRO	X	273	56.875	49.233	68.708	0.00	0.00
ATOM	4093	HB2	PRO	X	273	57.231	48.250	68.399	0.00	0.00
ATOM	4094	HB3	PRO	X	273	57.551	49.986	68.304	0.00	0.00
ATOM	4095	CA	PRO	X	273	55.381	49.360	68.395	0.00	0.00
ATOM	4096	HA	PRO	X	273	54.983	50.302	68.020	0.00	0.00
ATOM	4097	C	PRO	X	273	55.118	48.450	67.192	0.00	0.00
ATOM	4098	O	PRO	X	273	54.372	47.515	67.221	0.00	0.00
ATOM	4099	N	ALA	X	274	55.751	48.745	66.052	0.00	0.00
ATOM	4100	H	ALA	X	274	56.325	49.576	66.062	0.00	0.00
ATOM	4101	CA	ALA	X	274	55.371	48.114	64.749	0.00	0.00
ATOM	4102	HA	ALA	X	274	54.316	47.850	64.816	0.00	0.00
ATOM	4103	CB	ALA	X	274	55.531	49.149	63.659	0.00	0.00
ATOM	4104	HB1	ALA	X	274	54.750	49.879	63.871	0.00	0.00
ATOM	4105	HB2	ALA	X	274	56.421	49.778	63.659	0.00	0.00
ATOM	4106	HB3	ALA	X	274	55.320	48.832	62.638	0.00	0.00
ATOM	4107	C	ALA	X	274	56.283	46.902	64.517	0.00	0.00
ATOM	4108	O	ALA	X	274	55.850	45.930	63.782	0.00	0.00
ATOM	4109	N	GLN	X	275	57.544	46.916	64.992	0.00	0.00
ATOM	4110	H	GLN	X	275	57.851	47.780	65.415	0.00	0.00
ATOM	4111	CA	GLN	X	275	58.512	45.827	64.859	0.00	0.00
ATOM	4112	HA	GLN	X	275	58.549	45.616	63.790	0.00	0.00
ATOM	4113	CB	GLN	X	275	59.959	46.219	65.157	0.00	0.00
ATOM	4114	HB2	GLN	X	275	60.074	46.537	66.193	0.00	0.00
ATOM	4115	HB3	GLN	X	275	60.666	45.393	65.078	0.00	0.00
ATOM	4116	CG	GLN	X	275	60.586	47.321	64.298	0.00	0.00
ATOM	4117	HG2	GLN	X	275	59.946	48.185	64.123	0.00	0.00
ATOM	4118	HG3	GLN	X	275	61.410	47.790	64.836	0.00	0.00
ATOM	4119	CD	GLN	X	275	61.057	46.904	62.973	0.00	0.00
ATOM	4120	OE1	GLN	X	275	60.447	46.077	62.341	0.00	0.00
ATOM	4121	NE2	GLN	X	275	62.098	47.568	62.441	0.00	0.00
ATOM	4122	HE21	GLN	X	275	62.520	47.380	61.543	0.00	0.00
ATOM	4123	HE22	GLN	X	275	62.540	48.167	63.123	0.00	0.00
ATOM	4124	C	GLN	X	275	58.110	44.489	65.481	0.00	0.00
ATOM	4125	O	GLN	X	275	58.020	43.454	64.817	0.00	0.00
ATOM	4126	N	VAL	X	276	57.724	44.648	66.813	0.00	0.00
ATOM	4127	H	VAL	X	276	57.913	45.431	67.422	0.00	0.00
ATOM	4128	CA	VAL	X	276	57.166	43.498	67.521	0.00	0.00
ATOM	4129	HA	VAL	X	276	57.940	42.740	67.643	0.00	0.00
ATOM	4130	CB	VAL	X	276	56.603	43.892	69.005	0.00	0.00
ATOM	4131	HB	VAL	X	276	57.421	44.110	69.692	0.00	0.00
ATOM	4132	CG1	VAL	X	276	55.766	45.186	69.092	0.00	0.00
ATOM	4133	HG11	VAL	X	276	56.285	46.088	68.767	0.00	0.00
ATOM	4134	HG12	VAL	X	276	54.938	45.070	68.393	0.00	0.00

ATOM	4135	HG13	VAL	X	276	55.485	45.294	70.140	0.00	0.00
ATOM	4136	CG2	VAL	X	276	55.719	42.740	69.518	0.00	0.00
ATOM	4137	HG21	VAL	X	276	56.253	41.790	69.528	0.00	0.00
ATOM	4138	HG22	VAL	X	276	55.633	42.941	70.586	0.00	0.00
ATOM	4139	HG23	VAL	X	276	54.761	42.639	69.008	0.00	0.00
ATOM	4140	C	VAL	X	276	55.959	42.853	66.747	0.00	0.00
ATOM	4141	O	VAL	X	276	55.896	41.654	66.560	0.00	0.00
ATOM	4142	N	LEU	X	277	55.127	43.704	66.128	0.00	0.00
ATOM	4143	H	LEU	X	277	55.400	44.675	66.075	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.813	43.335	65.461	0.00	0.00
ATOM	4145	HA	LEU	X	277	53.289	42.594	66.064	0.00	0.00
ATOM	4146	CB	LEU	X	277	52.925	44.611	65.360	0.00	0.00
ATOM	4147	HB2	LEU	X	277	52.662	44.908	66.375	0.00	0.00
ATOM	4148	HB3	LEU	X	277	53.475	45.472	64.982	0.00	0.00
ATOM	4149	CG	LEU	X	277	51.501	44.533	64.578	0.00	0.00
ATOM	4150	HG	LEU	X	277	51.775	44.245	63.563	0.00	0.00
ATOM	4151	CD1	LEU	X	277	50.516	43.405	65.103	0.00	0.00
ATOM	4152	HD11	LEU	X	277	50.373	43.701	66.143	0.00	0.00
ATOM	4153	HD12	LEU	X	277	49.599	43.365	64.516	0.00	0.00
ATOM	4154	HD13	LEU	X	277	50.998	42.428	65.059	0.00	0.00
ATOM	4155	CD2	LEU	X	277	50.817	45.937	64.569	0.00	0.00
ATOM	4156	HD21	LEU	X	277	51.563	46.727	64.477	0.00	0.00
ATOM	4157	HD22	LEU	X	277	50.186	45.967	63.681	0.00	0.00
ATOM	4158	HD23	LEU	X	277	50.336	45.993	65.545	0.00	0.00
ATOM	4159	C	LEU	X	277	54.131	42.594	64.083	0.00	0.00
ATOM	4160	O	LEU	X	277	53.542	41.586	63.859	0.00	0.00
ATOM	4161	N	VAL	X	278	54.967	43.235	63.224	0.00	0.00
ATOM	4162	H	VAL	X	278	55.468	44.052	63.543	0.00	0.00
ATOM	4163	CA	VAL	X	278	55.216	42.774	61.886	0.00	0.00
ATOM	4164	HA	VAL	X	278	54.311	42.279	61.532	0.00	0.00
ATOM	4165	CB	VAL	X	278	55.518	43.941	60.939	0.00	0.00
ATOM	4166	HB	VAL	X	278	54.859	44.800	61.057	0.00	0.00
ATOM	4167	CG1	VAL	X	278	57.002	44.473	61.189	0.00	0.00
ATOM	4168	HG11	VAL	X	278	57.124	45.550	61.075	0.00	0.00
ATOM	4169	HG12	VAL	X	278	57.489	44.136	62.103	0.00	0.00
ATOM	4170	HG13	VAL	X	278	57.703	44.144	60.421	0.00	0.00
ATOM	4171	CG2	VAL	X	278	55.401	43.392	59.489	0.00	0.00
ATOM	4172	HG21	VAL	X	278	54.511	42.786	59.322	0.00	0.00
ATOM	4173	HG22	VAL	X	278	55.274	44.262	58.844	0.00	0.00
ATOM	4174	HG23	VAL	X	278	56.304	42.821	59.272	0.00	0.00
ATOM	4175	C	VAL	X	278	56.208	41.609	61.840	0.00	0.00
ATOM	4176	O	VAL	X	278	55.974	40.690	61.065	0.00	0.00
ATOM	4177	N	ASN	X	279	57.136	41.513	62.769	0.00	0.00
ATOM	4178	H	ASN	X	279	57.334	42.313	63.353	0.00	0.00
ATOM	4179	CA	ASN	X	279	57.985	40.310	62.963	0.00	0.00
ATOM	4180	HA	ASN	X	279	58.148	40.095	61.907	0.00	0.00
ATOM	4181	CB	ASN	X	279	59.249	40.691	63.663	0.00	0.00
ATOM	4182	HB2	ASN	X	279	59.033	41.179	64.614	0.00	0.00
ATOM	4183	HB3	ASN	X	279	59.815	39.778	63.849	0.00	0.00
ATOM	4184	CG	ASN	X	279	60.134	41.518	62.755	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.909	40.934	61.969	0.00	0.00
ATOM	4186	ND2	ASN	X	279	60.169	42.827	62.965	0.00	0.00
ATOM	4187	HD21	ASN	X	279	60.588	43.445	62.284	0.00	0.00
ATOM	4188	HD22	ASN	X	279	59.605	43.167	63.731	0.00	0.00
ATOM	4189	C	ASN	X	279	57.201	39.130	63.550	0.00	0.00
ATOM	4190	O	ASN	X	279	57.548	37.985	63.321	0.00	0.00
ATOM	4191	N	HIE	X	280	56.096	39.300	64.309	0.00	0.00
ATOM	4192	H	HIE	X	280	55.714	40.231	64.401	0.00	0.00
ATOM	4193	CA	HIE	X	280	55.253	38.188	64.718	0.00	0.00
ATOM	4194	HA	HIE	X	280	55.821	37.298	64.991	0.00	0.00
ATOM	4195	CB	HIE	X	280	54.621	38.582	66.050	0.00	0.00
ATOM	4196	HB2	HIE	X	280	54.188	39.582	66.026	0.00	0.00
ATOM	4197	HB3	HIE	X	280	53.817	37.911	66.353	0.00	0.00
ATOM	4198	CG	HIE	X	280	55.590	38.525	67.181	0.00	0.00
ATOM	4199	ND1	HIE	X	280	56.698	37.680	67.423	0.00	0.00
ATOM	4200	CE1	HIE	X	280	57.063	37.712	68.697	0.00	0.00
ATOM	4201	HE1	HIE	X	280	57.941	37.245	69.119	0.00	0.00
ATOM	4202	NE2	HIE	X	280	56.386	38.635	69.311	0.00	0.00
ATOM	4203	HE2	HIE	X	280	56.637	38.902	70.252	0.00	0.00
ATOM	4204	CD2	HIE	X	280	55.407	39.068	68.393	0.00	0.00

ATOM	4205	HD2	HIE	X	280	54.561	39.686	68.655	0.00	0.00
ATOM	4206	C	HIE	X	280	54.150	37.893	63.668	0.00	0.00
ATOM	4207	O	HIE	X	280	53.540	36.809	63.784	0.00	0.00
ATOM	4208	N	GLU	X	281	53.893	38.713	62.660	0.00	0.00
ATOM	4209	H	GLU	X	281	54.159	39.687	62.696	0.00	0.00
ATOM	4210	CA	GLU	X	281	53.068	38.303	61.563	0.00	0.00
ATOM	4211	HA	GLU	X	281	52.051	38.355	61.951	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.204	39.357	60.472	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.391	40.389	60.766	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.040	39.063	59.836	0.00	0.00
ATOM	4215	CG	GLU	X	281	51.966	39.351	59.597	0.00	0.00
ATOM	4216	HG2	GLU	X	281	51.606	38.338	59.420	0.00	0.00
ATOM	4217	HG3	GLU	X	281	51.262	39.900	60.222	0.00	0.00
ATOM	4218	CD	GLU	X	281	52.151	40.104	58.326	0.00	0.00
ATOM	4219	OE1	GLU	X	281	51.859	41.317	58.305	0.00	0.00
ATOM	4220	OE2	GLU	X	281	52.857	39.599	57.397	0.00	0.00
ATOM	4221	C	GLU	X	281	53.434	36.953	60.946	0.00	0.00
ATOM	4222	O	GLU	X	281	52.475	36.227	60.646	0.00	0.00
ATOM	4223	N	TRP	X	282	54.659	36.516	60.852	0.00	0.00
ATOM	4224	H	TRP	X	282	55.335	37.148	61.259	0.00	0.00
ATOM	4225	CA	TRP	X	282	55.210	35.208	60.483	0.00	0.00
ATOM	4226	HA	TRP	X	282	55.259	35.002	59.414	0.00	0.00
ATOM	4227	CB	TRP	X	282	56.610	35.099	60.998	0.00	0.00
ATOM	4228	HB2	TRP	X	282	57.098	35.983	60.588	0.00	0.00
ATOM	4229	HB3	TRP	X	282	56.594	35.153	62.087	0.00	0.00
ATOM	4230	CG	TRP	X	282	57.543	33.991	60.741	0.00	0.00
ATOM	4231	CD1	TRP	X	282	57.897	33.410	59.573	0.00	0.00
ATOM	4232	HD1	TRP	X	282	57.727	33.794	58.578	0.00	0.00
ATOM	4233	NE1	TRP	X	282	58.663	32.305	59.820	0.00	0.00
ATOM	4234	HE1	TRP	X	282	59.201	31.770	59.154	0.00	0.00
ATOM	4235	CE2	TRP	X	282	58.743	32.116	61.218	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	59.433	31.155	61.977	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	59.942	30.373	61.432	0.00	0.00
ATOM	4238	CH2	TRP	X	282	59.286	31.055	63.371	0.00	0.00
ATOM	4239	HH2	TRP	X	282	59.738	30.203	63.856	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	58.661	32.111	64.032	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	58.574	32.191	65.105	0.00	0.00
ATOM	4242	CE3	TRP	X	282	58.073	33.191	63.244	0.00	0.00
ATOM	4243	HE3	TRP	X	282	57.562	34.010	63.728	0.00	0.00
ATOM	4244	CD2	TRP	X	282	58.053	33.187	61.818	0.00	0.00
ATOM	4245	C	TRP	X	282	54.380	34.030	60.972	0.00	0.00
ATOM	4246	O	TRP	X	282	54.100	33.136	60.198	0.00	0.00
ATOM	4247	N	HIE	X	283	53.957	34.083	62.233	0.00	0.00
ATOM	4248	H	HIE	X	283	54.180	34.804	62.905	0.00	0.00
ATOM	4249	CA	HIE	X	283	53.153	33.036	62.856	0.00	0.00
ATOM	4250	HA	HIE	X	283	53.634	32.058	62.869	0.00	0.00
ATOM	4251	CB	HIE	X	283	53.116	33.306	64.278	0.00	0.00
ATOM	4252	HB2	HIE	X	283	52.749	34.326	64.390	0.00	0.00
ATOM	4253	HB3	HIE	X	283	52.420	32.628	64.770	0.00	0.00
ATOM	4254	CG	HIE	X	283	54.424	33.100	65.050	0.00	0.00
ATOM	4255	ND1	HIE	X	283	54.976	31.853	65.243	0.00	0.00
ATOM	4256	CE1	HIE	X	283	56.097	32.028	65.975	0.00	0.00
ATOM	4257	HE1	HIE	X	283	56.708	31.239	66.388	0.00	0.00
ATOM	4258	NE2	HIE	X	283	56.355	33.324	66.084	0.00	0.00
ATOM	4259	HE2	HIE	X	283	57.112	33.732	66.614	0.00	0.00
ATOM	4260	CD2	HIE	X	283	55.303	34.043	65.513	0.00	0.00
ATOM	4261	HD2	HIE	X	283	55.188	35.101	65.328	0.00	0.00
ATOM	4262	C	HIE	X	283	51.761	32.843	62.269	0.00	0.00
ATOM	4263	O	HIE	X	283	51.237	31.687	62.293	0.00	0.00
ATOM	4264	N	VAL	X	284	51.152	33.925	61.747	0.00	0.00
ATOM	4265	H	VAL	X	284	51.769	34.713	61.610	0.00	0.00
ATOM	4266	CA	VAL	X	284	49.868	33.753	60.982	0.00	0.00
ATOM	4267	HA	VAL	X	284	49.428	32.779	61.195	0.00	0.00
ATOM	4268	CB	VAL	X	284	48.803	34.750	61.412	0.00	0.00
ATOM	4269	HB	VAL	X	284	47.876	34.478	60.907	0.00	0.00
ATOM	4270	CG1	VAL	X	284	48.545	34.737	62.934	0.00	0.00
ATOM	4271	HG11	VAL	X	284	49.497	34.818	63.458	0.00	0.00
ATOM	4272	HG12	VAL	X	284	47.804	35.503	63.159	0.00	0.00
ATOM	4273	HG13	VAL	X	284	48.160	33.776	63.274	0.00	0.00
ATOM	4274	CG2	VAL	X	284	49.106	36.197	60.915	0.00	0.00

ATOM	4275	HG21	VAL	X	284	48.270	36.869	61.106	0.00	0.00
ATOM	4276	HG22	VAL	X	284	49.996	36.586	61.410	0.00	0.00
ATOM	4277	HG23	VAL	X	284	49.244	36.174	59.834	0.00	0.00
ATOM	4278	C	VAL	X	284	50.157	33.781	59.462	0.00	0.00
ATOM	4279	O	VAL	X	284	49.222	33.495	58.690	0.00	0.00
ATOM	4280	N	LEU	X	285	51.351	34.140	58.997	0.00	0.00
ATOM	4281	H	LEU	X	285	52.122	34.439	59.577	0.00	0.00
ATOM	4282	CA	LEU	X	285	51.813	33.845	57.592	0.00	0.00
ATOM	4283	HA	LEU	X	285	51.198	34.448	56.925	0.00	0.00
ATOM	4284	CB	LEU	X	285	53.239	34.407	57.414	0.00	0.00
ATOM	4285	HB2	LEU	X	285	53.424	35.256	58.071	0.00	0.00
ATOM	4286	HB3	LEU	X	285	53.867	33.637	57.864	0.00	0.00
ATOM	4287	CG	LEU	X	285	53.706	34.867	55.933	0.00	0.00
ATOM	4288	HG	LEU	X	285	52.966	35.587	55.584	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.991	35.598	56.255	0.00	0.00
ATOM	4290	HD11	LEU	X	285	55.605	34.910	56.836	0.00	0.00
ATOM	4291	HD12	LEU	X	285	55.447	36.018	55.358	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.803	36.449	56.910	0.00	0.00
ATOM	4293	CD2	LEU	X	285	53.795	33.640	54.976	0.00	0.00
ATOM	4294	HD21	LEU	X	285	54.609	33.691	54.254	0.00	0.00
ATOM	4295	HD22	LEU	X	285	53.898	32.675	55.474	0.00	0.00
ATOM	4296	HD23	LEU	X	285	52.817	33.506	54.514	0.00	0.00
ATOM	4297	C	LEU	X	285	51.768	32.365	57.226	0.00	0.00
ATOM	4298	O	LEU	X	285	52.517	31.578	57.883	0.00	0.00
ATOM	4299	N	PRO	X	286	50.937	31.899	56.240	0.00	0.00
ATOM	4300	CD	PRO	X	286	49.973	32.680	55.475	0.00	0.00
ATOM	4301	HD2	PRO	X	286	50.403	33.231	54.639	0.00	0.00
ATOM	4302	HD3	PRO	X	286	49.513	33.415	56.136	0.00	0.00
ATOM	4303	CG	PRO	X	286	48.833	31.715	55.108	0.00	0.00
ATOM	4304	HG2	PRO	X	286	48.541	32.015	54.101	0.00	0.00
ATOM	4305	HG3	PRO	X	286	48.073	31.827	55.880	0.00	0.00
ATOM	4306	CB	PRO	X	286	49.513	30.352	55.107	0.00	0.00
ATOM	4307	HB2	PRO	X	286	49.945	30.091	54.141	0.00	0.00
ATOM	4308	HB3	PRO	X	286	48.832	29.557	55.413	0.00	0.00
ATOM	4309	CA	PRO	X	286	50.629	30.483	56.177	0.00	0.00
ATOM	4310	HA	PRO	X	286	50.271	30.306	57.191	0.00	0.00
ATOM	4311	C	PRO	X	286	51.919	29.765	55.700	0.00	0.00
ATOM	4312	O	PRO	X	286	52.555	30.086	54.737	0.00	0.00
ATOM	4313	N	GLN	X	287	52.217	28.758	56.532	0.00	0.00
ATOM	4314	H	GLN	X	287	51.518	28.486	57.208	0.00	0.00
ATOM	4315	CA	GLN	X	287	53.288	27.748	56.388	0.00	0.00
ATOM	4316	HA	GLN	X	287	53.721	27.913	55.402	0.00	0.00
ATOM	4317	CB	GLN	X	287	54.325	27.859	57.506	0.00	0.00
ATOM	4318	HB2	GLN	X	287	53.863	27.873	58.494	0.00	0.00
ATOM	4319	HB3	GLN	X	287	54.927	26.954	57.418	0.00	0.00
ATOM	4320	CG	GLN	X	287	55.217	29.071	57.086	0.00	0.00
ATOM	4321	HG2	GLN	X	287	55.713	28.807	56.152	0.00	0.00
ATOM	4322	HG3	GLN	X	287	54.579	29.897	56.773	0.00	0.00
ATOM	4323	CD	GLN	X	287	56.098	29.572	58.200	0.00	0.00
ATOM	4324	OE1	GLN	X	287	57.158	29.092	58.574	0.00	0.00
ATOM	4325	NE2	GLN	X	287	55.873	30.724	58.800	0.00	0.00
ATOM	4326	HE21	GLN	X	287	56.470	31.068	59.538	0.00	0.00
ATOM	4327	HE22	GLN	X	287	54.973	31.166	58.675	0.00	0.00
ATOM	4328	C	GLN	X	287	52.553	26.439	56.437	0.00	0.00
ATOM	4329	O	GLN	X	287	51.418	26.305	56.934	0.00	0.00
ATOM	4330	N	GLU	X	288	53.135	25.365	55.853	0.00	0.00
ATOM	4331	H	GLU	X	288	54.011	25.459	55.359	0.00	0.00
ATOM	4332	CA	GLU	X	288	52.444	24.108	55.543	0.00	0.00
ATOM	4333	HA	GLU	X	288	53.229	23.521	55.065	0.00	0.00
ATOM	4334	CB	GLU	X	288	52.081	23.387	56.904	0.00	0.00
ATOM	4335	HB2	GLU	X	288	51.185	23.809	57.360	0.00	0.00
ATOM	4336	HB3	GLU	X	288	51.804	22.364	56.648	0.00	0.00
ATOM	4337	CG	GLU	X	288	53.191	23.374	57.983	0.00	0.00
ATOM	4338	HG2	GLU	X	288	53.997	22.745	57.605	0.00	0.00
ATOM	4339	HG3	GLU	X	288	53.612	24.357	58.190	0.00	0.00
ATOM	4340	CD	GLU	X	288	52.790	22.695	59.273	0.00	0.00
ATOM	4341	OE1	GLU	X	288	53.129	21.466	59.448	0.00	0.00
ATOM	4342	OE2	GLU	X	288	52.314	23.417	60.171	0.00	0.00
ATOM	4343	C	GLU	X	288	51.269	24.247	54.480	0.00	0.00
ATOM	4344	O	GLU	X	288	50.293	23.486	54.396	0.00	0.00

ATOM	4345	N	SER	X	289	51.382	25.355	53.677	0.00	0.00
ATOM	4346	H	SER	X	289	52.264	25.836	53.788	0.00	0.00
ATOM	4347	CA	SER	X	289	50.485	25.820	52.633	0.00	0.00
ATOM	4348	HA	SER	X	289	50.012	24.956	52.167	0.00	0.00
ATOM	4349	CB	SER	X	289	49.339	26.670	53.197	0.00	0.00
ATOM	4350	HB2	SER	X	289	48.890	26.109	54.017	0.00	0.00
ATOM	4351	HB3	SER	X	289	49.732	27.553	53.701	0.00	0.00
ATOM	4352	OG	SER	X	289	48.269	27.042	52.387	0.00	0.00
ATOM	4353	HG	SER	X	289	47.554	27.417	52.906	0.00	0.00
ATOM	4354	C	SER	X	289	51.190	26.716	51.650	0.00	0.00
ATOM	4355	O	SER	X	289	52.393	26.991	51.905	0.00	0.00
ATOM	4356	N	VAL	X	290	50.619	27.117	50.538	0.00	0.00
ATOM	4357	H	VAL	X	290	49.662	26.950	50.263	0.00	0.00
ATOM	4358	CA	VAL	X	290	51.298	28.096	49.652	0.00	0.00
ATOM	4359	HA	VAL	X	290	51.787	28.917	50.176	0.00	0.00
ATOM	4360	CB	VAL	X	290	52.269	27.549	48.580	0.00	0.00
ATOM	4361	HB	VAL	X	290	52.575	28.418	47.998	0.00	0.00
ATOM	4362	CG1	VAL	X	290	53.502	26.817	49.157	0.00	0.00
ATOM	4363	HG11	VAL	X	290	54.127	26.575	48.297	0.00	0.00
ATOM	4364	HG12	VAL	X	290	54.056	27.450	49.850	0.00	0.00
ATOM	4365	HG13	VAL	X	290	53.341	25.810	49.540	0.00	0.00
ATOM	4366	CG2	VAL	X	290	51.667	26.640	47.477	0.00	0.00
ATOM	4367	HG21	VAL	X	290	52.342	26.731	46.626	0.00	0.00
ATOM	4368	HG22	VAL	X	290	51.481	25.635	47.856	0.00	0.00
ATOM	4369	HG23	VAL	X	290	50.688	26.973	47.134	0.00	0.00
ATOM	4370	C	VAL	X	290	50.197	28.809	48.873	0.00	0.00
ATOM	4371	O	VAL	X	290	49.053	28.329	48.850	0.00	0.00
ATOM	4372	N	PHE	X	291	50.445	29.936	48.237	0.00	0.00
ATOM	4373	H	PHE	X	291	51.352	30.369	48.333	0.00	0.00
ATOM	4374	CA	PHE	X	291	49.469	30.790	47.568	0.00	0.00
ATOM	4375	HA	PHE	X	291	50.032	31.683	47.295	0.00	0.00
ATOM	4376	CB	PHE	X	291	48.938	30.088	46.270	0.00	0.00
ATOM	4377	HB2	PHE	X	291	49.525	29.232	45.936	0.00	0.00
ATOM	4378	HB3	PHE	X	291	47.986	29.584	46.435	0.00	0.00
ATOM	4379	CG	PHE	X	291	48.657	30.889	45.009	0.00	0.00
ATOM	4380	CD1	PHE	X	291	48.083	32.238	45.099	0.00	0.00
ATOM	4381	HD1	PHE	X	291	47.790	32.725	46.018	0.00	0.00
ATOM	4382	CE1	PHE	X	291	47.959	33.032	43.954	0.00	0.00
ATOM	4383	HE1	PHE	X	291	47.636	34.057	44.062	0.00	0.00
ATOM	4384	CZ	PHE	X	291	48.355	32.481	42.730	0.00	0.00
ATOM	4385	HZ	PHE	X	291	48.413	33.218	41.943	0.00	0.00
ATOM	4386	CE2	PHE	X	291	48.831	31.154	42.639	0.00	0.00
ATOM	4387	HE2	PHE	X	291	49.131	30.755	41.681	0.00	0.00
ATOM	4388	CD2	PHE	X	291	49.014	30.353	43.776	0.00	0.00
ATOM	4389	HD2	PHE	X	291	49.395	29.352	43.644	0.00	0.00
ATOM	4390	C	PHE	X	291	48.363	31.294	48.504	0.00	0.00
ATOM	4391	O	PHE	X	291	47.218	31.495	48.143	0.00	0.00
ATOM	4392	N	ARG	X	292	48.764	31.496	49.731	0.00	0.00
ATOM	4393	H	ARG	X	292	49.709	31.240	49.981	0.00	0.00
ATOM	4394	CA	ARG	X	292	47.957	32.039	50.851	0.00	0.00
ATOM	4395	HA	ARG	X	292	47.137	32.545	50.342	0.00	0.00
ATOM	4396	CB	ARG	X	292	47.313	30.897	51.682	0.00	0.00
ATOM	4397	HB2	ARG	X	292	48.066	30.389	52.285	0.00	0.00
ATOM	4398	HB3	ARG	X	292	46.698	31.322	52.476	0.00	0.00
ATOM	4399	CG	ARG	X	292	46.426	29.907	50.901	0.00	0.00
ATOM	4400	HG2	ARG	X	292	47.090	29.365	50.227	0.00	0.00
ATOM	4401	HG3	ARG	X	292	46.007	29.199	51.617	0.00	0.00
ATOM	4402	CD	ARG	X	292	45.173	30.642	50.281	0.00	0.00
ATOM	4403	HD2	ARG	X	292	44.343	30.484	50.971	0.00	0.00
ATOM	4404	HD3	ARG	X	292	45.307	31.711	50.119	0.00	0.00
ATOM	4405	NE	ARG	X	292	44.862	29.971	48.993	0.00	0.00
ATOM	4406	HE	ARG	X	292	45.518	30.208	48.262	0.00	0.00
ATOM	4407	CZ	ARG	X	292	43.925	29.062	48.708	0.00	0.00
ATOM	4408	NH1	ARG	X	292	43.007	28.679	49.575	0.00	0.00
ATOM	4409	HH11	ARG	X	292	42.968	28.994	50.533	0.00	0.00
ATOM	4410	HH12	ARG	X	292	42.295	28.088	49.167	0.00	0.00
ATOM	4411	NH2	ARG	X	292	43.882	28.563	47.511	0.00	0.00
ATOM	4412	HH21	ARG	X	292	44.642	28.737	46.869	0.00	0.00
ATOM	4413	HH22	ARG	X	292	43.155	27.879	47.357	0.00	0.00
ATOM	4414	C	ARG	X	292	48.705	33.055	51.688	0.00	0.00

ATOM	4415	O	ARG	X	292	49.919	32.909	51.799	0.00	0.00
ATOM	4416	N	PHE	X	293	48.059	34.053	52.335	0.00	0.00
ATOM	4417	H	PHE	X	293	47.050	34.071	52.390	0.00	0.00
ATOM	4418	CA	PHE	X	293	48.715	35.216	52.865	0.00	0.00
ATOM	4419	HA	PHE	X	293	49.786	35.020	52.916	0.00	0.00
ATOM	4420	CB	PHE	X	293	48.325	36.387	51.909	0.00	0.00
ATOM	4421	HB2	PHE	X	293	47.245	36.530	51.882	0.00	0.00
ATOM	4422	HB3	PHE	X	293	48.676	37.378	52.199	0.00	0.00
ATOM	4423	CG	PHE	X	293	48.737	36.043	50.460	0.00	0.00
ATOM	4424	CD1	PHE	X	293	50.101	36.123	50.081	0.00	0.00
ATOM	4425	HD1	PHE	X	293	50.860	36.454	50.774	0.00	0.00
ATOM	4426	CE1	PHE	X	293	50.475	35.665	48.787	0.00	0.00
ATOM	4427	HE1	PHE	X	293	51.479	35.589	48.398	0.00	0.00
ATOM	4428	CZ	PHE	X	293	49.553	34.922	48.038	0.00	0.00
ATOM	4429	HZ	PHE	X	293	49.911	34.517	47.102	0.00	0.00
ATOM	4430	CE2	PHE	X	293	48.160	34.796	48.486	0.00	0.00
ATOM	4431	HE2	PHE	X	293	47.453	34.213	47.915	0.00	0.00
ATOM	4432	CD2	PHE	X	293	47.787	35.450	49.658	0.00	0.00
ATOM	4433	HD2	PHE	X	293	46.813	35.305	50.102	0.00	0.00
ATOM	4434	C	PHE	X	293	48.272	35.502	54.381	0.00	0.00
ATOM	4435	O	PHE	X	293	47.135	35.267	54.731	0.00	0.00
ATOM	4436	N	SER	X	294	49.116	36.175	55.200	0.00	0.00
ATOM	4437	H	SER	X	294	49.963	36.518	54.769	0.00	0.00
ATOM	4438	CA	SER	X	294	48.958	36.564	56.665	0.00	0.00
ATOM	4439	HA	SER	X	294	48.791	35.565	57.067	0.00	0.00
ATOM	4440	CB	SER	X	294	50.165	37.362	57.217	0.00	0.00
ATOM	4441	HB2	SER	X	294	49.877	38.053	58.009	0.00	0.00
ATOM	4442	HB3	SER	X	294	50.826	36.694	57.770	0.00	0.00
ATOM	4443	OG	SER	X	294	50.903	38.023	56.139	0.00	0.00
ATOM	4444	HG	SER	X	294	51.560	38.603	56.531	0.00	0.00
ATOM	4445	C	SER	X	294	47.751	37.470	56.982	0.00	0.00
ATOM	4446	O	SER	X	294	46.894	37.189	57.868	0.00	0.00
ATOM	4447	N	PHE	X	295	47.601	38.628	56.259	0.00	0.00
ATOM	4448	H	PHE	X	295	48.168	38.733	55.430	0.00	0.00
ATOM	4449	CA	PHE	X	295	46.369	39.364	56.290	0.00	0.00
ATOM	4450	HA	PHE	X	295	45.597	38.758	56.765	0.00	0.00
ATOM	4451	CB	PHE	X	295	46.482	40.668	57.184	0.00	0.00
ATOM	4452	HB2	PHE	X	295	47.280	41.265	56.744	0.00	0.00
ATOM	4453	HB3	PHE	X	295	45.606	41.277	56.959	0.00	0.00
ATOM	4454	CG	PHE	X	295	46.531	40.374	58.694	0.00	0.00
ATOM	4455	CD1	PHE	X	295	45.473	40.517	59.641	0.00	0.00
ATOM	4456	HD1	PHE	X	295	44.497	40.666	59.204	0.00	0.00
ATOM	4457	CE1	PHE	X	295	45.614	40.076	61.006	0.00	0.00
ATOM	4458	HE1	PHE	X	295	44.744	39.871	61.614	0.00	0.00
ATOM	4459	CZ	PHE	X	295	46.841	39.716	61.481	0.00	0.00
ATOM	4460	HZ	PHE	X	295	46.821	39.298	62.476	0.00	0.00
ATOM	4461	CE2	PHE	X	295	47.972	39.738	60.619	0.00	0.00
ATOM	4462	HE2	PHE	X	295	48.888	39.257	60.928	0.00	0.00
ATOM	4463	CD2	PHE	X	295	47.784	40.024	59.240	0.00	0.00
ATOM	4464	HD2	PHE	X	295	48.590	39.889	58.534	0.00	0.00
ATOM	4465	C	PHE	X	295	45.944	39.818	54.834	0.00	0.00
ATOM	4466	O	PHE	X	295	46.770	39.978	53.924	0.00	0.00
ATOM	4467	N	VAL	X	296	44.663	39.931	54.633	0.00	0.00
ATOM	4468	H	VAL	X	296	44.040	39.782	55.414	0.00	0.00
ATOM	4469	CA	VAL	X	296	44.014	40.169	53.306	0.00	0.00
ATOM	4470	HA	VAL	X	296	44.644	40.824	52.703	0.00	0.00
ATOM	4471	CB	VAL	X	296	43.819	38.783	52.526	0.00	0.00
ATOM	4472	HB	VAL	X	296	43.409	39.046	51.551	0.00	0.00
ATOM	4473	CG1	VAL	X	296	45.097	38.117	52.114	0.00	0.00
ATOM	4474	HG11	VAL	X	296	45.765	38.750	51.529	0.00	0.00
ATOM	4475	HG12	VAL	X	296	45.584	37.757	53.020	0.00	0.00
ATOM	4476	HG13	VAL	X	296	44.765	37.286	51.493	0.00	0.00
ATOM	4477	CG2	VAL	X	296	42.905	37.762	53.230	0.00	0.00
ATOM	4478	HG21	VAL	X	296	41.961	38.276	53.409	0.00	0.00
ATOM	4479	HG22	VAL	X	296	42.859	36.780	52.758	0.00	0.00
ATOM	4480	HG23	VAL	X	296	43.276	37.501	54.221	0.00	0.00
ATOM	4481	C	VAL	X	296	42.655	40.891	53.527	0.00	0.00
ATOM	4482	O	VAL	X	296	42.191	40.936	54.675	0.00	0.00
ATOM	4483	N	PRO	X	297	41.944	41.388	52.480	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.429	41.738	51.172	0.00	0.00

ATOM	4485	HD2	PRO	X	297	42.869	40.865	50.689	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.120	42.577	51.251	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.205	42.267	50.413	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.084	41.686	49.499	0.00	0.00
ATOM	4489	HG3	PRO	X	297	41.222	43.334	50.190	0.00	0.00
ATOM	4490	CB	PRO	X	297	39.935	41.989	51.262	0.00	0.00
ATOM	4491	HB2	PRO	X	297	39.532	41.024	50.954	0.00	0.00
ATOM	4492	HB3	PRO	X	297	39.263	42.829	51.084	0.00	0.00
ATOM	4493	CA	PRO	X	297	40.508	41.878	52.655	0.00	0.00
ATOM	4494	HA	PRO	X	297	40.549	42.787	53.255	0.00	0.00
ATOM	4495	C	PRO	X	297	39.612	40.902	53.408	0.00	0.00
ATOM	4496	O	PRO	X	297	39.734	39.679	53.279	0.00	0.00
ATOM	4497	N	VAL	X	298	38.627	41.416	54.094	0.00	0.00
ATOM	4498	H	VAL	X	298	38.478	42.415	54.118	0.00	0.00
ATOM	4499	CA	VAL	X	298	37.713	40.658	54.958	0.00	0.00
ATOM	4500	HA	VAL	X	298	37.778	39.590	54.754	0.00	0.00
ATOM	4501	CB	VAL	X	298	38.136	40.902	56.455	0.00	0.00
ATOM	4502	HB	VAL	X	298	39.188	40.635	56.555	0.00	0.00
ATOM	4503	CG1	VAL	X	298	37.988	42.360	56.999	0.00	0.00
ATOM	4504	HG11	VAL	X	298	38.470	42.446	57.973	0.00	0.00
ATOM	4505	HG12	VAL	X	298	38.435	43.126	56.365	0.00	0.00
ATOM	4506	HG13	VAL	X	298	36.947	42.674	57.072	0.00	0.00
ATOM	4507	CG2	VAL	X	298	37.254	39.960	57.312	0.00	0.00
ATOM	4508	HG21	VAL	X	298	37.533	39.971	58.366	0.00	0.00
ATOM	4509	HG22	VAL	X	298	36.192	40.204	57.314	0.00	0.00
ATOM	4510	HG23	VAL	X	298	37.301	38.925	56.972	0.00	0.00
ATOM	4511	C	VAL	X	298	36.244	40.953	54.743	0.00	0.00
ATOM	4512	O	VAL	X	298	35.873	42.130	54.374	0.00	0.00
ATOM	4513	N	VAL	X	299	35.506	39.866	54.657	0.00	0.00
ATOM	4514	H	VAL	X	299	36.000	39.022	54.906	0.00	0.00
ATOM	4515	CA	VAL	X	299	34.082	39.892	54.633	0.00	0.00
ATOM	4516	HA	VAL	X	299	33.808	40.742	54.008	0.00	0.00
ATOM	4517	CB	VAL	X	299	33.528	38.623	53.956	0.00	0.00
ATOM	4518	HB	VAL	X	299	33.929	37.740	54.454	0.00	0.00
ATOM	4519	CG1	VAL	X	299	32.006	38.516	53.900	0.00	0.00
ATOM	4520	HG11	VAL	X	299	31.387	38.376	54.787	0.00	0.00
ATOM	4521	HG12	VAL	X	299	31.733	39.504	53.529	0.00	0.00
ATOM	4522	HG13	VAL	X	299	31.667	37.778	53.174	0.00	0.00
ATOM	4523	CG2	VAL	X	299	33.960	38.423	52.551	0.00	0.00
ATOM	4524	HG21	VAL	X	299	33.730	37.420	52.193	0.00	0.00
ATOM	4525	HG22	VAL	X	299	33.605	39.212	51.887	0.00	0.00
ATOM	4526	HG23	VAL	X	299	35.050	38.412	52.522	0.00	0.00
ATOM	4527	C	VAL	X	299	33.487	39.924	56.071	0.00	0.00
ATOM	4528	O	VAL	X	299	33.368	38.846	56.691	0.00	0.00
ATOM	4529	N	ASP	X	300	33.078	41.118	56.527	0.00	0.00
ATOM	4530	H	ASP	X	300	33.111	41.868	55.852	0.00	0.00
ATOM	4531	CA	ASP	X	300	32.464	41.302	57.804	0.00	0.00
ATOM	4532	HA	ASP	X	300	32.412	40.335	58.303	0.00	0.00
ATOM	4533	CB	ASP	X	300	33.355	42.175	58.704	0.00	0.00
ATOM	4534	HB2	ASP	X	300	33.043	41.969	59.728	0.00	0.00
ATOM	4535	HB3	ASP	X	300	34.395	41.853	58.658	0.00	0.00
ATOM	4536	CG	ASP	X	300	33.260	43.663	58.357	0.00	0.00
ATOM	4537	OD1	ASP	X	300	32.630	44.387	59.169	0.00	0.00
ATOM	4538	OD2	ASP	X	300	33.802	44.095	57.320	0.00	0.00
ATOM	4539	C	ASP	X	300	30.927	41.890	57.749	0.00	0.00
ATOM	4540	O	ASP	X	300	30.283	42.034	58.778	0.00	0.00
ATOM	4541	N	GLY	X	301	30.512	42.273	56.558	0.00	0.00
ATOM	4542	H	GLY	X	301	31.124	42.087	55.776	0.00	0.00
ATOM	4543	CA	GLY	X	301	29.183	42.779	56.302	0.00	0.00
ATOM	4544	HA2	GLY	X	301	28.880	42.291	55.316	0.00	0.00
ATOM	4545	HA3	GLY	X	301	28.543	42.586	57.153	0.00	0.00
ATOM	4546	C	GLY	X	301	28.981	44.341	56.067	0.00	0.00
ATOM	4547	O	GLY	X	301	27.891	44.875	55.996	0.00	0.00
ATOM	4548	N	ASP	X	302	30.090	45.006	55.785	0.00	0.00
ATOM	4549	H	ASP	X	302	30.939	44.460	55.772	0.00	0.00
ATOM	4550	CA	ASP	X	302	30.253	46.418	55.687	0.00	0.00
ATOM	4551	HA	ASP	X	302	29.296	46.928	55.800	0.00	0.00
ATOM	4552	CB	ASP	X	302	31.117	46.890	56.812	0.00	0.00
ATOM	4553	HB2	ASP	X	302	30.571	46.681	57.732	0.00	0.00
ATOM	4554	HB3	ASP	X	302	31.996	46.247	56.846	0.00	0.00

ATOM	4555	CG	ASP	X	302	31.469	48.315	56.756	0.00	0.00
ATOM	4556	OD1	ASP	X	302	30.761	49.220	57.265	0.00	0.00
ATOM	4557	OD2	ASP	X	302	32.538	48.563	56.170	0.00	0.00
ATOM	4558	C	ASP	X	302	30.815	46.730	54.305	0.00	0.00
ATOM	4559	O	ASP	X	302	30.072	46.730	53.333	0.00	0.00
ATOM	4560	N	PHE	X	303	32.127	46.763	54.098	0.00	0.00
ATOM	4561	H	PHE	X	303	32.826	46.574	54.802	0.00	0.00
ATOM	4562	CA	PHE	X	303	32.773	47.023	52.795	0.00	0.00
ATOM	4563	HA	PHE	X	303	32.487	47.946	52.290	0.00	0.00
ATOM	4564	CB	PHE	X	303	34.297	47.122	53.027	0.00	0.00
ATOM	4565	HB2	PHE	X	303	34.471	47.883	53.789	0.00	0.00
ATOM	4566	HB3	PHE	X	303	34.697	46.180	53.402	0.00	0.00
ATOM	4567	CG	PHE	X	303	35.104	47.536	51.793	0.00	0.00
ATOM	4568	CD1	PHE	X	303	35.453	46.509	50.841	0.00	0.00
ATOM	4569	HD1	PHE	X	303	34.874	45.602	50.924	0.00	0.00
ATOM	4570	CE1	PHE	X	303	36.119	46.841	49.636	0.00	0.00
ATOM	4571	HE1	PHE	X	303	36.279	46.096	48.870	0.00	0.00
ATOM	4572	CZ	PHE	X	303	36.484	48.203	49.398	0.00	0.00
ATOM	4573	HZ	PHE	X	303	36.946	48.393	48.440	0.00	0.00
ATOM	4574	CE2	PHE	X	303	36.207	49.226	50.362	0.00	0.00
ATOM	4575	HE2	PHE	X	303	36.674	50.190	50.231	0.00	0.00
ATOM	4576	CD2	PHE	X	303	35.603	48.893	51.632	0.00	0.00
ATOM	4577	HD2	PHE	X	303	35.457	49.653	52.386	0.00	0.00
ATOM	4578	C	PHE	X	303	32.384	45.942	51.753	0.00	0.00
ATOM	4579	O	PHE	X	303	31.993	46.271	50.668	0.00	0.00
ATOM	4580	N	LEU	X	304	32.524	44.670	52.066	0.00	0.00
ATOM	4581	H	LEU	X	304	32.947	44.528	52.971	0.00	0.00
ATOM	4582	CA	LEU	X	304	31.949	43.537	51.323	0.00	0.00
ATOM	4583	HA	LEU	X	304	31.535	43.865	50.369	0.00	0.00
ATOM	4584	CB	LEU	X	304	32.957	42.405	51.062	0.00	0.00
ATOM	4585	HB2	LEU	X	304	33.017	41.908	52.030	0.00	0.00
ATOM	4586	HB3	LEU	X	304	32.387	41.767	50.387	0.00	0.00
ATOM	4587	CG	LEU	X	304	34.351	42.651	50.441	0.00	0.00
ATOM	4588	HG	LEU	X	304	34.892	43.151	51.244	0.00	0.00
ATOM	4589	CD1	LEU	X	304	34.981	41.313	50.088	0.00	0.00
ATOM	4590	HD11	LEU	X	304	36.007	41.599	49.856	0.00	0.00
ATOM	4591	HD12	LEU	X	304	34.981	40.602	50.914	0.00	0.00
ATOM	4592	HD13	LEU	X	304	34.557	40.803	49.223	0.00	0.00
ATOM	4593	CD2	LEU	X	304	34.263	43.585	49.247	0.00	0.00
ATOM	4594	HD21	LEU	X	304	33.753	43.139	48.392	0.00	0.00
ATOM	4595	HD22	LEU	X	304	33.695	44.474	49.519	0.00	0.00
ATOM	4596	HD23	LEU	X	304	35.240	43.931	48.908	0.00	0.00
ATOM	4597	C	LEU	X	304	30.719	43.035	52.171	0.00	0.00
ATOM	4598	O	LEU	X	304	30.866	42.756	53.336	0.00	0.00
ATOM	4599	N	SER	X	305	29.529	43.005	51.569	0.00	0.00
ATOM	4600	H	SER	X	305	29.493	43.532	50.708	0.00	0.00
ATOM	4601	CA	SER	X	305	28.424	42.194	52.093	0.00	0.00
ATOM	4602	HA	SER	X	305	28.352	42.493	53.138	0.00	0.00
ATOM	4603	CB	SER	X	305	27.112	42.659	51.416	0.00	0.00
ATOM	4604	HB2	SER	X	305	27.100	42.253	50.405	0.00	0.00
ATOM	4605	HB3	SER	X	305	26.301	42.129	51.916	0.00	0.00
ATOM	4606	OG	SER	X	305	26.952	44.008	51.345	0.00	0.00
ATOM	4607	HG	SER	X	305	26.198	44.237	50.797	0.00	0.00
ATOM	4608	C	SER	X	305	28.464	40.619	51.900	0.00	0.00
ATOM	4609	O	SER	X	305	27.697	39.930	52.601	0.00	0.00
ATOM	4610	N	ASP	X	306	29.424	40.017	51.118	0.00	0.00
ATOM	4611	H	ASP	X	306	30.141	40.519	50.615	0.00	0.00
ATOM	4612	CA	ASP	X	306	29.511	38.586	50.945	0.00	0.00
ATOM	4613	HA	ASP	X	306	29.520	38.144	51.941	0.00	0.00
ATOM	4614	CB	ASP	X	306	28.323	37.984	50.180	0.00	0.00
ATOM	4615	HB2	ASP	X	306	27.376	38.453	50.446	0.00	0.00
ATOM	4616	HB3	ASP	X	306	28.345	38.258	49.125	0.00	0.00
ATOM	4617	CG	ASP	X	306	28.025	36.460	50.302	0.00	0.00
ATOM	4618	OD1	ASP	X	306	26.839	35.936	50.191	0.00	0.00
ATOM	4619	OD2	ASP	X	306	29.018	35.698	50.398	0.00	0.00
ATOM	4620	C	ASP	X	306	30.890	38.282	50.331	0.00	0.00
ATOM	4621	O	ASP	X	306	31.747	39.193	50.246	0.00	0.00
ATOM	4622	N	THR	X	307	31.221	37.061	49.937	0.00	0.00
ATOM	4623	H	THR	X	307	30.607	36.272	50.082	0.00	0.00
ATOM	4624	CA	THR	X	307	32.372	36.562	49.154	0.00	0.00

ATOM	4625	HA	THR	X	307	33.209	37.054	49.650	0.00	0.00
ATOM	4626	CB	THR	X	307	32.425	35.024	49.126	0.00	0.00
ATOM	4627	HB	THR	X	307	33.221	34.657	48.479	0.00	0.00
ATOM	4628	CG2	THR	X	307	32.413	34.398	50.488	0.00	0.00
ATOM	4629	HG21	THR	X	307	33.231	33.677	50.497	0.00	0.00
ATOM	4630	HG22	THR	X	307	32.776	35.104	51.236	0.00	0.00
ATOM	4631	HG23	THR	X	307	31.430	34.021	50.769	0.00	0.00
ATOM	4632	OG1	THR	X	307	31.301	34.438	48.472	0.00	0.00
ATOM	4633	HG1	THR	X	307	30.543	34.621	49.033	0.00	0.00
ATOM	4634	C	THR	X	307	32.332	37.040	47.689	0.00	0.00
ATOM	4635	O	THR	X	307	31.274	37.347	47.196	0.00	0.00
ATOM	4636	N	PRO	X	308	33.533	37.223	47.031	0.00	0.00
ATOM	4637	CD	PRO	X	308	34.846	37.336	47.544	0.00	0.00
ATOM	4638	HD2	PRO	X	308	35.237	36.395	47.932	0.00	0.00
ATOM	4639	HD3	PRO	X	308	34.918	38.135	48.281	0.00	0.00
ATOM	4640	CG	PRO	X	308	35.734	37.681	46.335	0.00	0.00
ATOM	4641	HG2	PRO	X	308	36.036	36.787	45.789	0.00	0.00
ATOM	4642	HG3	PRO	X	308	36.619	38.170	46.743	0.00	0.00
ATOM	4643	CB	PRO	X	308	34.876	38.461	45.475	0.00	0.00
ATOM	4644	HB2	PRO	X	308	35.152	38.364	44.425	0.00	0.00
ATOM	4645	HB3	PRO	X	308	34.958	39.460	45.903	0.00	0.00
ATOM	4646	CA	PRO	X	308	33.495	38.021	45.743	0.00	0.00
ATOM	4647	HA	PRO	X	308	32.873	38.891	45.956	0.00	0.00
ATOM	4648	C	PRO	X	308	32.758	37.193	44.685	0.00	0.00
ATOM	4649	O	PRO	X	308	32.007	37.798	43.940	0.00	0.00
ATOM	4650	N	GLU	X	309	32.775	35.862	44.775	0.00	0.00
ATOM	4651	H	GLU	X	309	33.359	35.397	45.455	0.00	0.00
ATOM	4652	CA	GLU	X	309	32.015	35.060	43.821	0.00	0.00
ATOM	4653	HA	GLU	X	309	32.178	35.243	42.759	0.00	0.00
ATOM	4654	CB	GLU	X	309	32.420	33.605	43.896	0.00	0.00
ATOM	4655	HB2	GLU	X	309	31.788	32.966	43.280	0.00	0.00
ATOM	4656	HB3	GLU	X	309	33.434	33.559	43.499	0.00	0.00
ATOM	4657	CG	GLU	X	309	32.392	33.007	45.318	0.00	0.00
ATOM	4658	HG2	GLU	X	309	33.177	33.451	45.930	0.00	0.00
ATOM	4659	HG3	GLU	X	309	31.440	33.292	45.767	0.00	0.00
ATOM	4660	CD	GLU	X	309	32.543	31.450	45.389	0.00	0.00
ATOM	4661	OE1	GLU	X	309	33.604	30.926	45.659	0.00	0.00
ATOM	4662	OE2	GLU	X	309	31.526	30.734	45.092	0.00	0.00
ATOM	4663	C	GLU	X	309	30.463	35.109	43.964	0.00	0.00
ATOM	4664	O	GLU	X	309	29.737	35.105	42.940	0.00	0.00
ATOM	4665	N	ALA	X	310	30.051	35.276	45.253	0.00	0.00
ATOM	4666	H	ALA	X	310	30.739	35.333	45.989	0.00	0.00
ATOM	4667	CA	ALA	X	310	28.587	35.570	45.583	0.00	0.00
ATOM	4668	HA	ALA	X	310	28.054	34.784	45.047	0.00	0.00
ATOM	4669	CB	ALA	X	310	28.277	35.526	47.066	0.00	0.00
ATOM	4670	HB1	ALA	X	310	27.232	35.601	47.368	0.00	0.00
ATOM	4671	HB2	ALA	X	310	28.538	34.524	47.405	0.00	0.00
ATOM	4672	HB3	ALA	X	310	28.804	36.286	47.642	0.00	0.00
ATOM	4673	C	ALA	X	310	28.242	36.934	44.981	0.00	0.00
ATOM	4674	O	ALA	X	310	27.254	36.998	44.197	0.00	0.00
ATOM	4675	N	LEU	X	311	29.144	37.890	45.218	0.00	0.00
ATOM	4676	H	LEU	X	311	29.882	37.528	45.805	0.00	0.00
ATOM	4677	CA	LEU	X	311	29.017	39.282	44.779	0.00	0.00
ATOM	4678	HA	LEU	X	311	28.044	39.696	45.045	0.00	0.00
ATOM	4679	CB	LEU	X	311	30.033	40.082	45.540	0.00	0.00
ATOM	4680	HB2	LEU	X	311	30.987	39.556	45.586	0.00	0.00
ATOM	4681	HB3	LEU	X	311	30.068	41.106	45.169	0.00	0.00
ATOM	4682	CG	LEU	X	311	29.690	40.244	47.020	0.00	0.00
ATOM	4683	HG	LEU	X	311	29.643	39.251	47.467	0.00	0.00
ATOM	4684	CD1	LEU	X	311	30.745	41.125	47.813	0.00	0.00
ATOM	4685	HD11	LEU	X	311	30.551	40.986	48.877	0.00	0.00
ATOM	4686	HD12	LEU	X	311	31.711	40.692	47.551	0.00	0.00
ATOM	4687	HD13	LEU	X	311	30.812	42.162	47.485	0.00	0.00
ATOM	4688	CD2	LEU	X	311	28.301	40.884	47.319	0.00	0.00
ATOM	4689	HD21	LEU	X	311	27.564	40.404	46.676	0.00	0.00
ATOM	4690	HD22	LEU	X	311	28.093	40.794	48.385	0.00	0.00
ATOM	4691	HD23	LEU	X	311	28.254	41.909	46.949	0.00	0.00
ATOM	4692	C	LEU	X	311	28.998	39.510	43.276	0.00	0.00
ATOM	4693	O	LEU	X	311	28.211	40.385	42.895	0.00	0.00
ATOM	4694	N	ILE	X	312	29.777	38.841	42.472	0.00	0.00

ATOM	4695	H	ILE	X	312	30.490	38.272	42.906	0.00	0.00
ATOM	4696	CA	ILE	X	312	29.711	38.685	41.001	0.00	0.00
ATOM	4697	HA	ILE	X	312	29.830	39.685	40.584	0.00	0.00
ATOM	4698	CB	ILE	X	312	30.906	37.845	40.521	0.00	0.00
ATOM	4699	HB	ILE	X	312	30.876	36.899	41.060	0.00	0.00
ATOM	4700	CG2	ILE	X	312	30.681	37.495	39.101	0.00	0.00
ATOM	4701	HG21	ILE	X	312	29.747	36.969	38.906	0.00	0.00
ATOM	4702	HG22	ILE	X	312	30.778	38.381	38.472	0.00	0.00
ATOM	4703	HG23	ILE	X	312	31.512	36.844	38.828	0.00	0.00
ATOM	4704	CG1	ILE	X	312	32.342	38.511	40.669	0.00	0.00
ATOM	4705	HG12	ILE	X	312	32.447	39.241	39.866	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.370	38.996	41.644	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.535	37.542	40.496	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.540	37.068	39.514	0.00	0.00
ATOM	4709	HD12	ILE	X	312	34.426	38.132	40.709	0.00	0.00
ATOM	4710	HD13	ILE	X	312	33.497	36.823	41.314	0.00	0.00
ATOM	4711	C	ILE	X	312	28.365	38.201	40.513	0.00	0.00
ATOM	4712	O	ILE	X	312	27.657	38.857	39.760	0.00	0.00
ATOM	4713	N	ASN	X	313	27.998	37.031	40.998	0.00	0.00
ATOM	4714	H	ASN	X	313	28.624	36.527	41.611	0.00	0.00
ATOM	4715	CA	ASN	X	313	26.879	36.336	40.359	0.00	0.00
ATOM	4716	HA	ASN	X	313	27.183	36.304	39.313	0.00	0.00
ATOM	4717	CB	ASN	X	313	26.752	34.843	40.821	0.00	0.00
ATOM	4718	HB2	ASN	X	313	27.684	34.300	40.978	0.00	0.00
ATOM	4719	HB3	ASN	X	313	26.338	34.774	41.827	0.00	0.00
ATOM	4720	CG	ASN	X	313	25.774	34.023	39.924	0.00	0.00
ATOM	4721	OD1	ASN	X	313	25.855	34.110	38.731	0.00	0.00
ATOM	4722	ND2	ASN	X	313	24.828	33.298	40.478	0.00	0.00
ATOM	4723	HD21	ASN	X	313	24.234	32.745	39.878	0.00	0.00
ATOM	4724	HD22	ASN	X	313	24.936	33.018	41.443	0.00	0.00
ATOM	4725	C	ASN	X	313	25.487	36.942	40.522	0.00	0.00
ATOM	4726	O	ASN	X	313	24.594	36.778	39.671	0.00	0.00
ATOM	4727	N	ALA	X	314	25.305	37.731	41.578	0.00	0.00
ATOM	4728	H	ALA	X	314	26.098	37.746	42.204	0.00	0.00
ATOM	4729	CA	ALA	X	314	24.055	38.546	41.846	0.00	0.00
ATOM	4730	HA	ALA	X	314	23.155	38.066	41.462	0.00	0.00
ATOM	4731	CB	ALA	X	314	23.894	38.477	43.411	0.00	0.00
ATOM	4732	HB1	ALA	X	314	23.916	37.476	43.842	0.00	0.00
ATOM	4733	HB2	ALA	X	314	24.671	39.056	43.910	0.00	0.00
ATOM	4734	HB3	ALA	X	314	22.907	38.899	43.597	0.00	0.00
ATOM	4735	C	ALA	X	314	24.233	39.957	41.348	0.00	0.00
ATOM	4736	O	ALA	X	314	23.245	40.685	41.312	0.00	0.00
ATOM	4737	N	GLY	X	315	25.330	40.464	40.800	0.00	0.00
ATOM	4738	H	GLY	X	315	26.131	39.850	40.743	0.00	0.00
ATOM	4739	CA	GLY	X	315	25.462	41.904	40.488	0.00	0.00
ATOM	4740	HA2	GLY	X	315	24.918	42.501	41.147	0.00	0.00
ATOM	4741	HA3	GLY	X	315	26.528	42.095	40.614	0.00	0.00
ATOM	4742	C	GLY	X	315	25.078	42.328	39.075	0.00	0.00
ATOM	4743	O	GLY	X	315	24.829	41.571	38.148	0.00	0.00
ATOM	4744	N	ASP	X	316	25.102	43.571	38.926	0.00	0.00
ATOM	4745	H	ASP	X	316	25.319	44.143	39.729	0.00	0.00
ATOM	4746	CA	ASP	X	316	24.748	44.415	37.761	0.00	0.00
ATOM	4747	HA	ASP	X	316	24.266	43.740	37.052	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.652	45.518	37.917	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.900	46.079	38.818	0.00	0.00
ATOM	4750	HB3	ASP	X	316	23.707	46.249	37.111	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.287	44.946	38.008	0.00	0.00
ATOM	4752	OD1	ASP	X	316	21.991	44.642	39.177	0.00	0.00
ATOM	4753	OD2	ASP	X	316	21.492	44.816	37.044	0.00	0.00
ATOM	4754	C	ASP	X	316	25.985	44.944	37.032	0.00	0.00
ATOM	4755	O	ASP	X	316	26.893	45.535	37.683	0.00	0.00
ATOM	4756	N	PHE	X	317	26.135	44.730	35.731	0.00	0.00
ATOM	4757	H	PHE	X	317	25.313	44.368	35.270	0.00	0.00
ATOM	4758	CA	PHE	X	317	27.369	44.963	35.021	0.00	0.00
ATOM	4759	HA	PHE	X	317	27.843	45.832	35.479	0.00	0.00
ATOM	4760	CB	PHE	X	317	28.335	43.765	35.113	0.00	0.00
ATOM	4761	HB2	PHE	X	317	27.852	43.016	34.486	0.00	0.00
ATOM	4762	HB3	PHE	X	317	29.273	43.962	34.592	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.721	43.238	36.514	0.00	0.00
ATOM	4764	CD1	PHE	X	317	29.860	43.725	37.080	0.00	0.00

ATOM	4765	HD1	PHE	X	317	30.365	44.506	36.531	0.00	0.00
ATOM	4766	CE1	PHE	X	317	30.280	43.279	38.314	0.00	0.00
ATOM	4767	HE1	PHE	X	317	31.160	43.725	38.754	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.539	42.311	39.005	0.00	0.00
ATOM	4769	HZ	PHE	X	317	29.891	42.145	40.013	0.00	0.00
ATOM	4770	CE2	PHE	X	317	28.384	41.825	38.427	0.00	0.00
ATOM	4771	HE2	PHE	X	317	27.800	41.064	38.924	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.027	42.184	37.118	0.00	0.00
ATOM	4773	HD2	PHE	X	317	27.163	41.716	36.671	0.00	0.00
ATOM	4774	C	PHE	X	317	27.084	45.437	33.601	0.00	0.00
ATOM	4775	O	PHE	X	317	27.968	45.688	32.781	0.00	0.00
ATOM	4776	N	HIE	X	318	25.839	45.708	33.314	0.00	0.00
ATOM	4777	H	HIE	X	318	25.130	45.599	34.025	0.00	0.00
ATOM	4778	CA	HIE	X	318	25.439	46.238	31.986	0.00	0.00
ATOM	4779	HA	HIE	X	318	25.581	45.434	31.264	0.00	0.00
ATOM	4780	CB	HIE	X	318	23.877	46.506	32.091	0.00	0.00
ATOM	4781	HB2	HIE	X	318	23.323	45.603	32.348	0.00	0.00
ATOM	4782	HB3	HIE	X	318	23.795	47.280	32.854	0.00	0.00
ATOM	4783	CG	HIE	X	318	23.246	47.035	30.831	0.00	0.00
ATOM	4784	ND1	HIE	X	318	23.304	48.341	30.380	0.00	0.00
ATOM	4785	CE1	HIE	X	318	22.466	48.433	29.315	0.00	0.00
ATOM	4786	HE1	HIE	X	318	22.325	49.364	28.786	0.00	0.00
ATOM	4787	NE2	HIE	X	318	22.073	47.138	28.951	0.00	0.00
ATOM	4788	HE2	HIE	X	318	21.756	46.965	28.008	0.00	0.00
ATOM	4789	CD2	HIE	X	318	22.580	46.312	29.910	0.00	0.00
ATOM	4790	HD2	HIE	X	318	22.294	45.276	29.804	0.00	0.00
ATOM	4791	C	HIE	X	318	26.118	47.558	31.552	0.00	0.00
ATOM	4792	O	HIE	X	318	26.062	48.551	32.256	0.00	0.00
ATOM	4793	N	GLY	X	319	26.763	47.636	30.367	0.00	0.00
ATOM	4794	H	GLY	X	319	26.853	46.749	29.893	0.00	0.00
ATOM	4795	CA	GLY	X	319	27.451	48.847	29.900	0.00	0.00
ATOM	4796	HA2	GLY	X	319	27.315	49.063	28.898	0.00	0.00
ATOM	4797	HA3	GLY	X	319	26.984	49.669	30.464	0.00	0.00
ATOM	4798	C	GLY	X	319	28.942	48.749	30.145	0.00	0.00
ATOM	4799	O	GLY	X	319	29.597	49.610	29.579	0.00	0.00
ATOM	4800	N	LEU	X	320	29.486	47.934	30.994	0.00	0.00
ATOM	4801	H	LEU	X	320	28.867	47.381	31.570	0.00	0.00
ATOM	4802	CA	LEU	X	320	30.837	48.068	31.509	0.00	0.00
ATOM	4803	HA	LEU	X	320	31.175	49.104	31.476	0.00	0.00
ATOM	4804	CB	LEU	X	320	30.884	47.462	32.936	0.00	0.00
ATOM	4805	HB2	LEU	X	320	30.234	46.587	32.902	0.00	0.00
ATOM	4806	HB3	LEU	X	320	31.896	47.127	33.163	0.00	0.00
ATOM	4807	CG	LEU	X	320	30.537	48.400	34.146	0.00	0.00
ATOM	4808	HG	LEU	X	320	31.147	49.297	34.042	0.00	0.00
ATOM	4809	CD1	LEU	X	320	29.080	48.800	34.244	0.00	0.00
ATOM	4810	HD11	LEU	X	320	28.712	49.421	33.427	0.00	0.00
ATOM	4811	HD12	LEU	X	320	28.374	47.969	34.228	0.00	0.00
ATOM	4812	HD13	LEU	X	320	28.819	49.346	35.151	0.00	0.00
ATOM	4813	CD2	LEU	X	320	30.900	47.756	35.571	0.00	0.00
ATOM	4814	HD21	LEU	X	320	30.743	48.538	36.313	0.00	0.00
ATOM	4815	HD22	LEU	X	320	30.083	47.054	35.738	0.00	0.00
ATOM	4816	HD23	LEU	X	320	31.895	47.311	35.538	0.00	0.00
ATOM	4817	C	LEU	X	320	31.830	47.299	30.591	0.00	0.00
ATOM	4818	O	LEU	X	320	31.507	46.340	29.889	0.00	0.00
ATOM	4819	N	GLN	X	321	33.043	47.793	30.495	0.00	0.00
ATOM	4820	H	GLN	X	321	33.222	48.612	31.058	0.00	0.00
ATOM	4821	CA	GLN	X	321	34.241	47.070	29.884	0.00	0.00
ATOM	4822	HA	GLN	X	321	33.931	46.238	29.253	0.00	0.00
ATOM	4823	CB	GLN	X	321	35.012	48.033	28.979	0.00	0.00
ATOM	4824	HB2	GLN	X	321	35.467	48.779	29.630	0.00	0.00
ATOM	4825	HB3	GLN	X	321	35.734	47.364	28.509	0.00	0.00
ATOM	4826	CG	GLN	X	321	34.125	48.644	27.834	0.00	0.00
ATOM	4827	HG2	GLN	X	321	34.630	48.565	26.871	0.00	0.00
ATOM	4828	HG3	GLN	X	321	33.207	48.056	27.827	0.00	0.00
ATOM	4829	CD	GLN	X	321	33.703	50.084	28.009	0.00	0.00
ATOM	4830	OE1	GLN	X	321	34.456	50.983	28.439	0.00	0.00
ATOM	4831	NE2	GLN	X	321	32.573	50.486	27.561	0.00	0.00
ATOM	4832	HE21	GLN	X	321	32.438	51.487	27.536	0.00	0.00
ATOM	4833	HE22	GLN	X	321	31.928	49.805	27.186	0.00	0.00
ATOM	4834	C	GLN	X	321	35.191	46.493	30.947	0.00	0.00

ATOM	4835	O	GLN	X	321	35.574	47.199	31.895	0.00	0.00
ATOM	4836	N	VAL	X	322	35.602	45.219	30.897	0.00	0.00
ATOM	4837	H	VAL	X	322	35.142	44.619	30.228	0.00	0.00
ATOM	4838	CA	VAL	X	322	36.590	44.653	31.757	0.00	0.00
ATOM	4839	HA	VAL	X	322	37.235	45.478	32.061	0.00	0.00
ATOM	4840	CB	VAL	X	322	36.054	43.775	32.942	0.00	0.00
ATOM	4841	HB	VAL	X	322	35.573	42.839	32.660	0.00	0.00
ATOM	4842	CG1	VAL	X	322	37.165	43.377	33.894	0.00	0.00
ATOM	4843	HG11	VAL	X	322	37.548	44.288	34.352	0.00	0.00
ATOM	4844	HG12	VAL	X	322	36.817	42.621	34.597	0.00	0.00
ATOM	4845	HG13	VAL	X	322	37.972	42.834	33.400	0.00	0.00
ATOM	4846	CG2	VAL	X	322	35.089	44.586	33.774	0.00	0.00
ATOM	4847	HG21	VAL	X	322	34.605	43.943	34.509	0.00	0.00
ATOM	4848	HG22	VAL	X	322	35.544	45.449	34.261	0.00	0.00
ATOM	4849	HG23	VAL	X	322	34.213	44.835	33.176	0.00	0.00
ATOM	4850	C	VAL	X	322	37.575	43.813	30.941	0.00	0.00
ATOM	4851	O	VAL	X	322	37.230	42.962	30.108	0.00	0.00
ATOM	4852	N	LEU	X	323	38.876	44.077	31.175	0.00	0.00
ATOM	4853	H	LEU	X	323	39.142	44.861	31.752	0.00	0.00
ATOM	4854	CA	LEU	X	323	39.988	43.237	30.616	0.00	0.00
ATOM	4855	HA	LEU	X	323	39.662	42.581	29.809	0.00	0.00
ATOM	4856	CB	LEU	X	323	41.088	44.161	30.106	0.00	0.00
ATOM	4857	HB2	LEU	X	323	40.633	44.864	29.408	0.00	0.00
ATOM	4858	HB3	LEU	X	323	41.514	44.709	30.946	0.00	0.00
ATOM	4859	CG	LEU	X	323	42.250	43.803	29.203	0.00	0.00
ATOM	4860	HG	LEU	X	323	41.754	43.423	28.311	0.00	0.00
ATOM	4861	CD1	LEU	X	323	43.034	45.094	28.898	0.00	0.00
ATOM	4862	HD11	LEU	X	323	43.869	44.849	28.242	0.00	0.00
ATOM	4863	HD12	LEU	X	323	42.353	45.799	28.420	0.00	0.00
ATOM	4864	HD13	LEU	X	323	43.483	45.503	29.803	0.00	0.00
ATOM	4865	CD2	LEU	X	323	43.046	42.611	29.876	0.00	0.00
ATOM	4866	HD21	LEU	X	323	43.216	42.789	30.938	0.00	0.00
ATOM	4867	HD22	LEU	X	323	42.590	41.664	29.587	0.00	0.00
ATOM	4868	HD23	LEU	X	323	44.026	42.561	29.401	0.00	0.00
ATOM	4869	C	LEU	X	323	40.461	42.299	31.744	0.00	0.00
ATOM	4870	O	LEU	X	323	40.501	42.742	32.884	0.00	0.00
ATOM	4871	N	VAL	X	324	40.692	41.017	31.405	0.00	0.00
ATOM	4872	H	VAL	X	324	40.559	40.720	30.449	0.00	0.00
ATOM	4873	CA	VAL	X	324	41.063	39.952	32.393	0.00	0.00
ATOM	4874	HA	VAL	X	324	41.479	40.431	33.279	0.00	0.00
ATOM	4875	CB	VAL	X	324	39.905	39.044	32.910	0.00	0.00
ATOM	4876	HB	VAL	X	324	40.351	38.452	33.709	0.00	0.00
ATOM	4877	CG1	VAL	X	324	38.736	39.841	33.602	0.00	0.00
ATOM	4878	HG11	VAL	X	324	39.001	40.235	34.583	0.00	0.00
ATOM	4879	HG12	VAL	X	324	38.519	40.701	32.969	0.00	0.00
ATOM	4880	HG13	VAL	X	324	37.854	39.263	33.878	0.00	0.00
ATOM	4881	CG2	VAL	X	324	39.390	38.116	31.753	0.00	0.00
ATOM	4882	HG21	VAL	X	324	40.144	37.335	31.656	0.00	0.00
ATOM	4883	HG22	VAL	X	324	38.480	37.597	32.055	0.00	0.00
ATOM	4884	HG23	VAL	X	324	39.280	38.626	30.797	0.00	0.00
ATOM	4885	C	VAL	X	324	42.191	39.095	31.792	0.00	0.00
ATOM	4886	O	VAL	X	324	42.362	39.001	30.635	0.00	0.00
ATOM	4887	N	GLY	X	325	43.080	38.468	32.658	0.00	0.00
ATOM	4888	H	GLY	X	325	43.061	38.779	33.619	0.00	0.00
ATOM	4889	CA	GLY	X	325	44.043	37.537	32.133	0.00	0.00
ATOM	4890	HA2	GLY	X	325	43.607	36.604	31.770	0.00	0.00
ATOM	4891	HA3	GLY	X	325	44.479	37.890	31.209	0.00	0.00
ATOM	4892	C	GLY	X	325	45.154	37.046	33.046	0.00	0.00
ATOM	4893	O	GLY	X	325	45.193	37.374	34.264	0.00	0.00
ATOM	4894	N	VAL	X	326	46.032	36.252	32.498	0.00	0.00
ATOM	4895	H	VAL	X	326	45.939	36.201	31.493	0.00	0.00
ATOM	4896	CA	VAL	X	326	47.043	35.443	33.181	0.00	0.00
ATOM	4897	HA	VAL	X	326	47.338	35.963	34.092	0.00	0.00
ATOM	4898	CB	VAL	X	326	46.502	34.006	33.558	0.00	0.00
ATOM	4899	HB	VAL	X	326	47.307	33.476	34.069	0.00	0.00
ATOM	4900	CG1	VAL	X	326	45.147	33.940	34.325	0.00	0.00
ATOM	4901	HG11	VAL	X	326	45.130	34.642	35.158	0.00	0.00
ATOM	4902	HG12	VAL	X	326	44.278	34.033	33.673	0.00	0.00
ATOM	4903	HG13	VAL	X	326	45.073	32.934	34.739	0.00	0.00
ATOM	4904	CG2	VAL	X	326	46.296	33.235	32.279	0.00	0.00

ATOM	4905	HG21	VAL	X	326	45.822	32.290	32.546	0.00	0.00
ATOM	4906	HG22	VAL	X	326	45.674	33.789	31.576	0.00	0.00
ATOM	4907	HG23	VAL	X	326	47.252	33.033	31.795	0.00	0.00
ATOM	4908	C	VAL	X	326	48.343	35.377	32.351	0.00	0.00
ATOM	4909	O	VAL	X	326	48.362	35.636	31.144	0.00	0.00
ATOM	4910	N	VAL	X	327	49.390	34.830	32.987	0.00	0.00
ATOM	4911	H	VAL	X	327	49.262	34.821	33.989	0.00	0.00
ATOM	4912	CA	VAL	X	327	50.632	34.228	32.396	0.00	0.00
ATOM	4913	HA	VAL	X	327	50.805	34.661	31.411	0.00	0.00
ATOM	4914	CB	VAL	X	327	51.924	34.585	33.136	0.00	0.00
ATOM	4915	HB	VAL	X	327	52.671	34.139	32.480	0.00	0.00
ATOM	4916	CG1	VAL	X	327	52.287	36.092	33.233	0.00	0.00
ATOM	4917	HG11	VAL	X	327	51.742	36.620	34.015	0.00	0.00
ATOM	4918	HG12	VAL	X	327	53.363	36.209	33.357	0.00	0.00
ATOM	4919	HG13	VAL	X	327	52.059	36.650	32.325	0.00	0.00
ATOM	4920	CG2	VAL	X	327	51.977	34.012	34.567	0.00	0.00
ATOM	4921	HG21	VAL	X	327	52.958	33.969	35.040	0.00	0.00
ATOM	4922	HG22	VAL	X	327	51.322	34.624	35.187	0.00	0.00
ATOM	4923	HG23	VAL	X	327	51.707	32.956	34.603	0.00	0.00
ATOM	4924	C	VAL	X	327	50.442	32.749	32.106	0.00	0.00
ATOM	4925	O	VAL	X	327	49.430	32.192	32.636	0.00	0.00
ATOM	4926	N	LYS	X	328	51.315	32.111	31.313	0.00	0.00
ATOM	4927	H	LYS	X	328	52.047	32.698	30.940	0.00	0.00
ATOM	4928	CA	LYS	X	328	51.094	30.707	30.886	0.00	0.00
ATOM	4929	HA	LYS	X	328	50.121	30.585	30.410	0.00	0.00
ATOM	4930	CB	LYS	X	328	52.225	30.294	29.922	0.00	0.00
ATOM	4931	HB2	LYS	X	328	52.205	31.102	29.191	0.00	0.00
ATOM	4932	HB3	LYS	X	328	53.209	30.320	30.390	0.00	0.00
ATOM	4933	CG	LYS	X	328	51.996	28.846	29.368	0.00	0.00
ATOM	4934	HG2	LYS	X	328	51.983	28.114	30.176	0.00	0.00
ATOM	4935	HG3	LYS	X	328	50.974	28.731	29.008	0.00	0.00
ATOM	4936	CD	LYS	X	328	52.905	28.296	28.250	0.00	0.00
ATOM	4937	HD2	LYS	X	328	52.382	27.382	27.970	0.00	0.00
ATOM	4938	HD3	LYS	X	328	52.979	29.002	27.423	0.00	0.00
ATOM	4939	CE	LYS	X	328	54.385	28.075	28.565	0.00	0.00
ATOM	4940	HE2	LYS	X	328	54.855	27.509	27.761	0.00	0.00
ATOM	4941	HE3	LYS	X	328	54.849	29.057	28.655	0.00	0.00
ATOM	4942	NZ	LYS	X	328	54.618	27.309	29.808	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	54.308	27.759	30.657	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	54.187	26.397	29.774	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	55.605	27.096	29.784	0.00	0.00
ATOM	4946	C	LYS	X	328	51.000	29.765	32.080	0.00	0.00
ATOM	4947	O	LYS	X	328	50.032	28.986	32.197	0.00	0.00
ATOM	4948	N	ASP	X	329	51.976	29.727	32.983	0.00	0.00
ATOM	4949	H	ASP	X	329	52.789	30.326	32.985	0.00	0.00
ATOM	4950	CA	ASP	X	329	51.979	28.702	34.045	0.00	0.00
ATOM	4951	HA	ASP	X	329	51.457	27.790	33.757	0.00	0.00
ATOM	4952	CB	ASP	X	329	53.400	28.251	34.293	0.00	0.00
ATOM	4953	HB2	ASP	X	329	53.954	29.126	34.633	0.00	0.00
ATOM	4954	HB3	ASP	X	329	53.403	27.459	35.042	0.00	0.00
ATOM	4955	CG	ASP	X	329	54.061	27.756	32.981	0.00	0.00
ATOM	4956	OD1	ASP	X	329	53.828	26.546	32.677	0.00	0.00
ATOM	4957	OD2	ASP	X	329	54.554	28.575	32.193	0.00	0.00
ATOM	4958	C	ASP	X	329	51.373	29.214	35.386	0.00	0.00
ATOM	4959	O	ASP	X	329	50.716	28.461	36.100	0.00	0.00
ATOM	4960	N	GLU	X	330	51.679	30.429	35.796	0.00	0.00
ATOM	4961	H	GLU	X	330	52.278	30.928	35.154	0.00	0.00
ATOM	4962	CA	GLU	X	330	51.151	31.058	37.060	0.00	0.00
ATOM	4963	HA	GLU	X	330	51.482	32.095	36.993	0.00	0.00
ATOM	4964	CB	GLU	X	330	49.594	31.065	37.126	0.00	0.00
ATOM	4965	HB2	GLU	X	330	49.217	30.045	37.060	0.00	0.00
ATOM	4966	HB3	GLU	X	330	49.291	31.375	38.126	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.976	32.033	36.105	0.00	0.00
ATOM	4968	HG2	GLU	X	330	49.331	31.950	35.078	0.00	0.00
ATOM	4969	HG3	GLU	X	330	47.949	31.690	35.982	0.00	0.00
ATOM	4970	CD	GLU	X	330	49.114	33.562	36.577	0.00	0.00
ATOM	4971	OE1	GLU	X	330	49.680	33.879	37.643	0.00	0.00
ATOM	4972	OE2	GLU	X	330	48.506	34.366	35.887	0.00	0.00
ATOM	4973	C	GLU	X	330	51.819	30.411	38.351	0.00	0.00
ATOM	4974	O	GLU	X	330	52.985	30.596	38.741	0.00	0.00

ATOM	4975	N	GLY	X	331	50.948	29.563	39.017	0.00	0.00
ATOM	4976	H	GLY	X	331	50.045	29.538	38.564	0.00	0.00
ATOM	4977	CA	GLY	X	331	51.148	29.133	40.354	0.00	0.00
ATOM	4978	HA2	GLY	X	331	51.039	29.995	40.904	0.00	0.00
ATOM	4979	HA3	GLY	X	331	50.297	28.497	40.573	0.00	0.00
ATOM	4980	C	GLY	X	331	52.414	28.318	40.685	0.00	0.00
ATOM	4981	O	GLY	X	331	52.574	28.034	41.878	0.00	0.00
ATOM	4982	N	SER	X	332	53.227	28.018	39.696	0.00	0.00
ATOM	4983	H	SER	X	332	53.021	28.330	38.758	0.00	0.00
ATOM	4984	CA	SER	X	332	54.562	27.476	39.905	0.00	0.00
ATOM	4985	HA	SER	X	332	54.533	26.497	40.384	0.00	0.00
ATOM	4986	CB	SER	X	332	55.317	27.255	38.563	0.00	0.00
ATOM	4987	HB2	SER	X	332	55.050	28.033	37.847	0.00	0.00
ATOM	4988	HB3	SER	X	332	56.374	27.427	38.764	0.00	0.00
ATOM	4989	OG	SER	X	332	55.068	25.961	38.019	0.00	0.00
ATOM	4990	HG	SER	X	332	54.254	25.992	37.512	0.00	0.00
ATOM	4991	C	SER	X	332	55.475	28.457	40.719	0.00	0.00
ATOM	4992	O	SER	X	332	56.387	28.072	41.410	0.00	0.00
ATOM	4993	N	TYR	X	333	55.240	29.735	40.482	0.00	0.00
ATOM	4994	H	TYR	X	333	54.512	29.980	39.828	0.00	0.00
ATOM	4995	CA	TYR	X	333	55.757	30.837	41.307	0.00	0.00
ATOM	4996	HA	TYR	X	333	56.794	30.997	41.012	0.00	0.00
ATOM	4997	CB	TYR	X	333	54.929	32.100	41.062	0.00	0.00
ATOM	4998	HB2	TYR	X	333	54.939	32.246	39.982	0.00	0.00
ATOM	4999	HB3	TYR	X	333	53.896	32.081	41.410	0.00	0.00
ATOM	5000	CG	TYR	X	333	55.569	33.290	41.700	0.00	0.00
ATOM	5001	CD1	TYR	X	333	56.371	34.140	40.968	0.00	0.00
ATOM	5002	HD1	TYR	X	333	56.684	33.933	39.955	0.00	0.00
ATOM	5003	CE1	TYR	X	333	56.851	35.356	41.530	0.00	0.00
ATOM	5004	HE1	TYR	X	333	57.539	35.962	40.959	0.00	0.00
ATOM	5005	CZ	TYR	X	333	56.639	35.657	42.906	0.00	0.00
ATOM	5006	OH	TYR	X	333	57.149	36.829	43.432	0.00	0.00
ATOM	5007	HH	TYR	X	333	57.632	37.340	42.778	0.00	0.00
ATOM	5008	CE2	TYR	X	333	55.794	34.816	43.646	0.00	0.00
ATOM	5009	HE2	TYR	X	333	55.647	34.919	44.711	0.00	0.00
ATOM	5010	CD2	TYR	X	333	55.254	33.656	43.036	0.00	0.00
ATOM	5011	HD2	TYR	X	333	54.671	32.980	43.645	0.00	0.00
ATOM	5012	C	TYR	X	333	55.734	30.437	42.808	0.00	0.00
ATOM	5013	O	TYR	X	333	56.750	30.321	43.560	0.00	0.00
ATOM	5014	N	PHE	X	334	54.562	30.328	43.459	0.00	0.00
ATOM	5015	H	PHE	X	334	53.749	30.601	42.925	0.00	0.00
ATOM	5016	CA	PHE	X	334	54.371	30.103	44.883	0.00	0.00
ATOM	5017	HA	PHE	X	334	55.053	30.729	45.459	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.971	30.520	45.367	0.00	0.00
ATOM	5019	HB2	PHE	X	334	52.273	30.051	44.674	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.872	30.060	46.350	0.00	0.00
ATOM	5021	CG	PHE	X	334	52.773	32.018	45.309	0.00	0.00
ATOM	5022	CD1	PHE	X	334	51.944	32.616	44.387	0.00	0.00
ATOM	5023	HD1	PHE	X	334	51.326	32.021	43.730	0.00	0.00
ATOM	5024	CE1	PHE	X	334	51.765	34.040	44.316	0.00	0.00
ATOM	5025	HE1	PHE	X	334	51.029	34.352	43.589	0.00	0.00
ATOM	5026	CZ	PHE	X	334	52.507	34.862	45.161	0.00	0.00
ATOM	5027	HZ	PHE	X	334	52.432	35.939	45.153	0.00	0.00
ATOM	5028	CE2	PHE	X	334	53.389	34.268	46.019	0.00	0.00
ATOM	5029	HE2	PHE	X	334	54.030	34.955	46.551	0.00	0.00
ATOM	5030	CD2	PHE	X	334	53.521	32.878	46.157	0.00	0.00
ATOM	5031	HD2	PHE	X	334	54.268	32.453	46.810	0.00	0.00
ATOM	5032	C	PHE	X	334	54.812	28.684	45.337	0.00	0.00
ATOM	5033	O	PHE	X	334	54.958	28.427	46.495	0.00	0.00
ATOM	5034	N	LEU	X	335	55.266	27.853	44.394	0.00	0.00
ATOM	5035	H	LEU	X	335	55.111	28.169	43.447	0.00	0.00
ATOM	5036	CA	LEU	X	335	55.929	26.568	44.631	0.00	0.00
ATOM	5037	HA	LEU	X	335	55.348	26.031	45.380	0.00	0.00
ATOM	5038	CB	LEU	X	335	55.985	25.561	43.482	0.00	0.00
ATOM	5039	HB2	LEU	X	335	56.447	25.987	42.591	0.00	0.00
ATOM	5040	HB3	LEU	X	335	56.531	24.684	43.829	0.00	0.00
ATOM	5041	CG	LEU	X	335	54.587	24.949	43.033	0.00	0.00
ATOM	5042	HG	LEU	X	335	54.030	25.783	42.607	0.00	0.00
ATOM	5043	CD1	LEU	X	335	54.780	23.993	41.848	0.00	0.00
ATOM	5044	HD11	LEU	X	335	53.787	23.760	41.466	0.00	0.00

ATOM	5045	HD12	LEU	X	335	55.302	24.579	41.091	0.00	0.00
ATOM	5046	HD13	LEU	X	335	55.335	23.097	42.128	0.00	0.00
ATOM	5047	CD2	LEU	X	335	53.850	24.222	44.169	0.00	0.00
ATOM	5048	HD21	LEU	X	335	52.872	23.901	43.809	0.00	0.00
ATOM	5049	HD22	LEU	X	335	54.510	23.441	44.548	0.00	0.00
ATOM	5050	HD23	LEU	X	335	53.597	24.861	45.015	0.00	0.00
ATOM	5051	C	LEU	X	335	57.353	26.796	45.216	0.00	0.00
ATOM	5052	O	LEU	X	335	57.644	26.447	46.350	0.00	0.00
ATOM	5053	N	VAL	X	336	58.154	27.580	44.457	0.00	0.00
ATOM	5054	H	VAL	X	336	57.701	27.990	43.653	0.00	0.00
ATOM	5055	CA	VAL	X	336	59.599	27.936	44.779	0.00	0.00
ATOM	5056	HA	VAL	X	336	60.089	27.016	45.098	0.00	0.00
ATOM	5057	CB	VAL	X	336	60.345	28.534	43.588	0.00	0.00
ATOM	5058	HB	VAL	X	336	61.325	28.876	43.922	0.00	0.00
ATOM	5059	CG1	VAL	X	336	60.398	27.380	42.556	0.00	0.00
ATOM	5060	HG11	VAL	X	336	61.127	27.514	41.757	0.00	0.00
ATOM	5061	HG12	VAL	X	336	60.750	26.450	43.002	0.00	0.00
ATOM	5062	HG13	VAL	X	336	59.408	27.163	42.156	0.00	0.00
ATOM	5063	CG2	VAL	X	336	59.783	29.737	42.868	0.00	0.00
ATOM	5064	HG21	VAL	X	336	59.797	30.460	43.684	0.00	0.00
ATOM	5065	HG22	VAL	X	336	60.470	30.168	42.139	0.00	0.00
ATOM	5066	HG23	VAL	X	336	58.784	29.520	42.489	0.00	0.00
ATOM	5067	C	VAL	X	336	59.740	28.846	46.069	0.00	0.00
ATOM	5068	O	VAL	X	336	60.833	28.980	46.573	0.00	0.00
ATOM	5069	N	TYR	X	337	58.692	29.364	46.593	0.00	0.00
ATOM	5070	H	TYR	X	337	57.867	29.235	46.025	0.00	0.00
ATOM	5071	CA	TYR	X	337	58.553	30.222	47.809	0.00	0.00
ATOM	5072	HA	TYR	X	337	59.339	30.975	47.875	0.00	0.00
ATOM	5073	CB	TYR	X	337	57.113	30.960	47.725	0.00	0.00
ATOM	5074	HB2	TYR	X	337	56.501	30.535	46.930	0.00	0.00
ATOM	5075	HB3	TYR	X	337	56.503	30.940	48.629	0.00	0.00
ATOM	5076	CG	TYR	X	337	57.300	32.436	47.319	0.00	0.00
ATOM	5077	CD1	TYR	X	337	57.949	32.743	46.134	0.00	0.00
ATOM	5078	HD1	TYR	X	337	58.297	31.970	45.464	0.00	0.00
ATOM	5079	CE1	TYR	X	337	58.131	34.072	45.718	0.00	0.00
ATOM	5080	HE1	TYR	X	337	58.579	34.270	44.755	0.00	0.00
ATOM	5081	CZ	TYR	X	337	57.615	35.079	46.547	0.00	0.00
ATOM	5082	OH	TYR	X	337	57.617	36.391	46.088	0.00	0.00
ATOM	5083	HH	TYR	X	337	57.890	36.413	45.168	0.00	0.00
ATOM	5084	CE2	TYR	X	337	56.949	34.829	47.748	0.00	0.00
ATOM	5085	HE2	TYR	X	337	56.424	35.625	48.255	0.00	0.00
ATOM	5086	CD2	TYR	X	337	56.803	33.464	48.187	0.00	0.00
ATOM	5087	HD2	TYR	X	337	56.341	33.221	49.133	0.00	0.00
ATOM	5088	C	TYR	X	337	58.614	29.345	49.051	0.00	0.00
ATOM	5089	O	TYR	X	337	59.165	29.823	50.088	0.00	0.00
ATOM	5090	N	GLY	X	338	58.069	28.107	48.931	0.00	0.00
ATOM	5091	H	GLY	X	338	57.670	27.801	48.056	0.00	0.00
ATOM	5092	CA	GLY	X	338	58.099	27.085	50.097	0.00	0.00
ATOM	5093	HA2	GLY	X	338	59.074	26.724	50.041	0.00	0.00
ATOM	5094	HA3	GLY	X	338	57.998	27.620	51.067	0.00	0.00
ATOM	5095	C	GLY	X	338	57.239	25.819	50.018	0.00	0.00
ATOM	5096	O	GLY	X	338	56.910	25.314	51.051	0.00	0.00
ATOM	5097	N	ALA	X	339	57.109	25.182	48.807	0.00	0.00
ATOM	5098	H	ALA	X	339	57.384	25.737	48.009	0.00	0.00
ATOM	5099	CA	ALA	X	339	56.504	23.841	48.562	0.00	0.00
ATOM	5100	HA	ALA	X	339	55.715	23.752	49.309	0.00	0.00
ATOM	5101	CB	ALA	X	339	55.774	23.838	47.230	0.00	0.00
ATOM	5102	HB1	ALA	X	339	55.107	22.977	47.175	0.00	0.00
ATOM	5103	HB2	ALA	X	339	55.226	24.771	47.095	0.00	0.00
ATOM	5104	HB3	ALA	X	339	56.575	23.781	46.494	0.00	0.00
ATOM	5105	C	ALA	X	339	57.637	22.635	48.629	0.00	0.00
ATOM	5106	O	ALA	X	339	58.862	22.925	48.552	0.00	0.00
ATOM	5107	N	PRO	X	340	57.248	21.354	48.788	0.00	0.00
ATOM	5108	CD	PRO	X	340	55.907	20.916	49.191	0.00	0.00
ATOM	5109	HD2	PRO	X	340	55.345	20.761	48.270	0.00	0.00
ATOM	5110	HD3	PRO	X	340	55.332	21.609	49.804	0.00	0.00
ATOM	5111	CG	PRO	X	340	56.066	19.659	49.986	0.00	0.00
ATOM	5112	HG2	PRO	X	340	55.130	19.101	50.017	0.00	0.00
ATOM	5113	HG3	PRO	X	340	56.418	19.789	51.010	0.00	0.00
ATOM	5114	CB	PRO	X	340	57.113	18.946	49.166	0.00	0.00

ATOM	5115	HB2	PRO	X	340	56.719	18.566	48.224	0.00	0.00
ATOM	5116	HB3	PRO	X	340	57.666	18.153	49.670	0.00	0.00
ATOM	5117	CA	PRO	X	340	58.136	20.117	48.851	0.00	0.00
ATOM	5118	HA	PRO	X	340	58.926	20.295	49.582	0.00	0.00
ATOM	5119	C	PRO	X	340	58.905	19.977	47.562	0.00	0.00
ATOM	5120	O	PRO	X	340	58.362	19.764	46.461	0.00	0.00
ATOM	5121	N	GLY	X	341	60.178	20.128	47.700	0.00	0.00
ATOM	5122	H	GLY	X	341	60.529	20.316	48.628	0.00	0.00
ATOM	5123	CA	GLY	X	341	61.206	19.996	46.639	0.00	0.00
ATOM	5124	HA2	GLY	X	341	62.245	19.775	47.097	0.00	0.00
ATOM	5125	HA3	GLY	X	341	60.938	19.236	45.954	0.00	0.00
ATOM	5126	C	GLY	X	341	61.555	21.241	45.863	0.00	0.00
ATOM	5127	O	GLY	X	341	62.679	21.405	45.305	0.00	0.00
ATOM	5128	N	PHE	X	342	60.660	22.220	45.873	0.00	0.00
ATOM	5129	H	PHE	X	342	59.809	22.140	46.412	0.00	0.00
ATOM	5130	CA	PHE	X	342	60.832	23.518	45.227	0.00	0.00
ATOM	5131	HA	PHE	X	342	61.210	23.375	44.215	0.00	0.00
ATOM	5132	CB	PHE	X	342	59.445	24.081	45.004	0.00	0.00
ATOM	5133	HB2	PHE	X	342	58.946	24.134	45.971	0.00	0.00
ATOM	5134	HB3	PHE	X	342	59.436	25.061	44.527	0.00	0.00
ATOM	5135	CG	PHE	X	342	58.707	23.194	43.979	0.00	0.00
ATOM	5136	CD1	PHE	X	342	58.827	23.401	42.600	0.00	0.00
ATOM	5137	HD1	PHE	X	342	59.374	24.286	42.310	0.00	0.00
ATOM	5138	CE1	PHE	X	342	58.359	22.387	41.700	0.00	0.00
ATOM	5139	HE1	PHE	X	342	58.433	22.622	40.648	0.00	0.00
ATOM	5140	CZ	PHE	X	342	57.592	21.322	42.143	0.00	0.00
ATOM	5141	HZ	PHE	X	342	57.132	20.669	41.417	0.00	0.00
ATOM	5142	CE2	PHE	X	342	57.391	21.200	43.521	0.00	0.00
ATOM	5143	HE2	PHE	X	342	56.746	20.413	43.883	0.00	0.00
ATOM	5144	CD2	PHE	X	342	58.017	22.103	44.439	0.00	0.00
ATOM	5145	HD2	PHE	X	342	57.785	22.005	45.489	0.00	0.00
ATOM	5146	C	PHE	X	342	61.734	24.475	45.951	0.00	0.00
ATOM	5147	O	PHE	X	342	61.507	25.002	47.039	0.00	0.00
ATOM	5148	N	SER	X	343	62.808	24.874	45.204	0.00	0.00
ATOM	5149	H	SER	X	343	62.997	24.266	44.420	0.00	0.00
ATOM	5150	CA	SER	X	343	63.561	26.187	45.369	0.00	0.00
ATOM	5151	HA	SER	X	343	62.987	26.901	45.961	0.00	0.00
ATOM	5152	CB	SER	X	343	64.835	25.926	46.243	0.00	0.00
ATOM	5153	HB2	SER	X	343	64.458	25.646	47.227	0.00	0.00
ATOM	5154	HB3	SER	X	343	65.361	25.145	45.695	0.00	0.00
ATOM	5155	OG	SER	X	343	65.790	26.911	46.224	0.00	0.00
ATOM	5156	HG	SER	X	343	65.898	27.316	47.088	0.00	0.00
ATOM	5157	C	SER	X	343	63.804	26.865	44.004	0.00	0.00
ATOM	5158	O	SER	X	343	63.744	26.230	42.911	0.00	0.00
ATOM	5159	N	LYS	X	344	64.246	28.144	43.946	0.00	0.00
ATOM	5160	H	LYS	X	344	64.401	28.717	44.764	0.00	0.00
ATOM	5161	CA	LYS	X	344	64.741	28.823	42.680	0.00	0.00
ATOM	5162	HA	LYS	X	344	64.220	28.430	41.808	0.00	0.00
ATOM	5163	CB	LYS	X	344	64.470	30.374	42.618	0.00	0.00
ATOM	5164	HB2	LYS	X	344	64.876	30.676	41.653	0.00	0.00
ATOM	5165	HB3	LYS	X	344	63.386	30.445	42.524	0.00	0.00
ATOM	5166	CG	LYS	X	344	64.915	31.302	43.755	0.00	0.00
ATOM	5167	HG2	LYS	X	344	64.296	32.199	43.713	0.00	0.00
ATOM	5168	HG3	LYS	X	344	64.708	30.831	44.716	0.00	0.00
ATOM	5169	CD	LYS	X	344	66.399	31.595	43.776	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.556	32.293	44.598	0.00	0.00
ATOM	5171	HD3	LYS	X	344	66.943	30.675	43.990	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.914	32.107	42.442	0.00	0.00
ATOM	5173	HE2	LYS	X	344	66.872	31.280	41.733	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.196	32.802	42.006	0.00	0.00
ATOM	5175	NZ	LYS	X	344	68.281	32.645	42.515	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	68.892	31.999	42.993	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	68.728	32.990	41.677	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.286	33.462	43.108	0.00	0.00
ATOM	5179	C	LYS	X	344	66.158	28.386	42.369	0.00	0.00
ATOM	5180	O	LYS	X	344	66.573	28.569	41.223	0.00	0.00
ATOM	5181	N	ASP	X	345	66.833	27.765	43.276	0.00	0.00
ATOM	5182	H	ASP	X	345	66.359	27.616	44.155	0.00	0.00
ATOM	5183	CA	ASP	X	345	68.252	27.530	43.202	0.00	0.00
ATOM	5184	HA	ASP	X	345	68.708	28.233	42.505	0.00	0.00

ATOM	5185	CB	ASP	X	345	68.931	27.906	44.562	0.00	0.00
ATOM	5186	HB2	ASP	X	345	68.468	28.822	44.928	0.00	0.00
ATOM	5187	HB3	ASP	X	345	68.595	27.234	45.351	0.00	0.00
ATOM	5188	CG	ASP	X	345	70.477	27.966	44.578	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.031	28.675	43.731	0.00	0.00
ATOM	5190	OD2	ASP	X	345	71.193	27.289	45.389	0.00	0.00
ATOM	5191	C	ASP	X	345	68.604	26.011	42.818	0.00	0.00
ATOM	5192	O	ASP	X	345	69.781	25.683	42.589	0.00	0.00
ATOM	5193	N	ASN	X	346	67.618	25.148	42.812	0.00	0.00
ATOM	5194	H	ASN	X	346	66.695	25.514	42.999	0.00	0.00
ATOM	5195	CA	ASN	X	346	67.744	23.667	42.527	0.00	0.00
ATOM	5196	HA	ASN	X	346	68.753	23.312	42.321	0.00	0.00
ATOM	5197	CB	ASN	X	346	67.371	22.854	43.776	0.00	0.00
ATOM	5198	HB2	ASN	X	346	67.785	21.846	43.815	0.00	0.00
ATOM	5199	HB3	ASN	X	346	67.755	23.376	44.652	0.00	0.00
ATOM	5200	CG	ASN	X	346	65.847	22.902	44.049	0.00	0.00
ATOM	5201	OD1	ASN	X	346	65.029	23.456	43.374	0.00	0.00
ATOM	5202	ND2	ASN	X	346	65.397	22.323	45.104	0.00	0.00
ATOM	5203	HD21	ASN	X	346	64.394	22.210	45.143	0.00	0.00
ATOM	5204	HD22	ASN	X	346	66.022	21.804	45.705	0.00	0.00
ATOM	5205	C	ASN	X	346	66.961	23.200	41.246	0.00	0.00
ATOM	5206	O	ASN	X	346	66.180	23.871	40.605	0.00	0.00
ATOM	5207	N	GLU	X	347	66.979	21.923	40.930	0.00	0.00
ATOM	5208	H	GLU	X	347	67.588	21.309	41.452	0.00	0.00
ATOM	5209	CA	GLU	X	347	66.249	21.239	39.854	0.00	0.00
ATOM	5210	HA	GLU	X	347	66.284	21.832	38.940	0.00	0.00
ATOM	5211	CB	GLU	X	347	67.065	20.062	39.461	0.00	0.00
ATOM	5212	HB2	GLU	X	347	68.126	20.291	39.568	0.00	0.00
ATOM	5213	HB3	GLU	X	347	66.955	19.245	40.174	0.00	0.00
ATOM	5214	CG	GLU	X	347	66.908	19.400	38.124	0.00	0.00
ATOM	5215	HG2	GLU	X	347	67.526	18.502	38.162	0.00	0.00
ATOM	5216	HG3	GLU	X	347	65.879	19.070	37.976	0.00	0.00
ATOM	5217	CD	GLU	X	347	67.502	20.337	37.079	0.00	0.00
ATOM	5218	OE1	GLU	X	347	66.746	21.176	36.555	0.00	0.00
ATOM	5219	OE2	GLU	X	347	68.696	20.210	36.682	0.00	0.00
ATOM	5220	C	GLU	X	347	64.798	20.809	40.094	0.00	0.00
ATOM	5221	O	GLU	X	347	64.069	20.400	39.210	0.00	0.00
ATOM	5222	N	SER	X	348	64.342	20.994	41.302	0.00	0.00
ATOM	5223	H	SER	X	348	64.970	21.424	41.966	0.00	0.00
ATOM	5224	CA	SER	X	348	63.039	20.632	41.896	0.00	0.00
ATOM	5225	HA	SER	X	348	63.078	20.714	42.982	0.00	0.00
ATOM	5226	CB	SER	X	348	61.904	21.548	41.502	0.00	0.00
ATOM	5227	HB2	SER	X	348	61.879	21.411	40.421	0.00	0.00
ATOM	5228	HB3	SER	X	348	60.971	21.223	41.962	0.00	0.00
ATOM	5229	OG	SER	X	348	62.020	22.939	41.781	0.00	0.00
ATOM	5230	HG	SER	X	348	62.690	23.387	41.259	0.00	0.00
ATOM	5231	C	SER	X	348	62.753	19.191	41.577	0.00	0.00
ATOM	5232	O	SER	X	348	61.925	18.904	40.686	0.00	0.00
ATOM	5233	N	LEU	X	349	63.473	18.257	42.190	0.00	0.00
ATOM	5234	H	LEU	X	349	64.227	18.493	42.820	0.00	0.00
ATOM	5235	CA	LEU	X	349	63.235	16.819	42.081	0.00	0.00
ATOM	5236	HA	LEU	X	349	62.659	16.650	41.172	0.00	0.00
ATOM	5237	CB	LEU	X	349	64.604	16.072	42.028	0.00	0.00
ATOM	5238	HB2	LEU	X	349	65.095	16.063	43.001	0.00	0.00
ATOM	5239	HB3	LEU	X	349	64.556	14.990	41.898	0.00	0.00
ATOM	5240	CG	LEU	X	349	65.498	16.681	40.952	0.00	0.00
ATOM	5241	HG	LEU	X	349	65.626	17.759	41.053	0.00	0.00
ATOM	5242	CD1	LEU	X	349	66.877	16.081	41.146	0.00	0.00
ATOM	5243	HD11	LEU	X	349	67.327	16.460	42.063	0.00	0.00
ATOM	5244	HD12	LEU	X	349	66.808	14.997	41.238	0.00	0.00
ATOM	5245	HD13	LEU	X	349	67.464	16.519	40.339	0.00	0.00
ATOM	5246	CD2	LEU	X	349	64.908	16.407	39.553	0.00	0.00
ATOM	5247	HD21	LEU	X	349	63.900	16.752	39.323	0.00	0.00
ATOM	5248	HD22	LEU	X	349	65.528	16.944	38.835	0.00	0.00
ATOM	5249	HD23	LEU	X	349	64.854	15.337	39.355	0.00	0.00
ATOM	5250	C	LEU	X	349	62.281	16.375	43.221	0.00	0.00
ATOM	5251	O	LEU	X	349	62.571	16.802	44.380	0.00	0.00
ATOM	5252	N	ILE	X	350	61.302	15.502	42.965	0.00	0.00
ATOM	5253	H	ILE	X	350	61.154	15.170	42.023	0.00	0.00
ATOM	5254	CA	ILE	X	350	60.411	14.998	44.002	0.00	0.00

ATOM	5255	HA	ILE	X	350	60.873	15.144	44.979	0.00	0.00
ATOM	5256	CB	ILE	X	350	59.155	15.928	43.977	0.00	0.00
ATOM	5257	HB	ILE	X	350	58.426	15.518	44.676	0.00	0.00
ATOM	5258	CG2	ILE	X	350	59.493	17.332	44.541	0.00	0.00
ATOM	5259	HG21	ILE	X	350	60.290	17.787	43.953	0.00	0.00
ATOM	5260	HG22	ILE	X	350	58.642	17.996	44.391	0.00	0.00
ATOM	5261	HG23	ILE	X	350	59.705	17.352	45.610	0.00	0.00
ATOM	5262	CG1	ILE	X	350	58.432	16.164	42.631	0.00	0.00
ATOM	5263	HG12	ILE	X	350	59.039	16.792	41.978	0.00	0.00
ATOM	5264	HG13	ILE	X	350	58.266	15.161	42.239	0.00	0.00
ATOM	5265	CD1	ILE	X	350	57.096	16.766	42.703	0.00	0.00
ATOM	5266	HD11	ILE	X	350	56.609	16.225	43.515	0.00	0.00
ATOM	5267	HD12	ILE	X	350	57.150	17.830	42.936	0.00	0.00
ATOM	5268	HD13	ILE	X	350	56.525	16.670	41.780	0.00	0.00
ATOM	5269	C	ILE	X	350	60.045	13.529	43.773	0.00	0.00
ATOM	5270	O	ILE	X	350	60.008	13.025	42.653	0.00	0.00
ATOM	5271	N	SER	X	351	59.740	12.832	44.876	0.00	0.00
ATOM	5272	H	SER	X	351	59.894	13.260	45.778	0.00	0.00
ATOM	5273	CA	SER	X	351	59.152	11.494	44.834	0.00	0.00
ATOM	5274	HA	SER	X	351	59.563	10.995	43.957	0.00	0.00
ATOM	5275	CB	SER	X	351	59.567	10.765	46.107	0.00	0.00
ATOM	5276	HB2	SER	X	351	59.386	9.705	45.929	0.00	0.00
ATOM	5277	HB3	SER	X	351	60.637	10.892	46.267	0.00	0.00
ATOM	5278	OG	SER	X	351	58.788	11.241	47.237	0.00	0.00
ATOM	5279	HG	SER	X	351	59.292	11.199	48.053	0.00	0.00
ATOM	5280	C	SER	X	351	57.598	11.570	44.633	0.00	0.00
ATOM	5281	O	SER	X	351	56.931	12.618	44.909	0.00	0.00
ATOM	5282	N	ARG	X	352	57.007	10.484	44.311	0.00	0.00
ATOM	5283	H	ARG	X	352	57.541	9.637	44.182	0.00	0.00
ATOM	5284	CA	ARG	X	352	55.539	10.316	44.349	0.00	0.00
ATOM	5285	HA	ARG	X	352	55.221	10.908	43.491	0.00	0.00
ATOM	5286	CB	ARG	X	352	55.123	8.896	43.898	0.00	0.00
ATOM	5287	HB2	ARG	X	352	55.808	8.597	43.105	0.00	0.00
ATOM	5288	HB3	ARG	X	352	55.295	8.307	44.799	0.00	0.00
ATOM	5289	CG	ARG	X	352	53.703	8.678	43.427	0.00	0.00
ATOM	5290	HG2	ARG	X	352	53.529	7.649	43.743	0.00	0.00
ATOM	5291	HG3	ARG	X	352	53.046	9.389	43.928	0.00	0.00
ATOM	5292	CD	ARG	X	352	53.296	8.548	41.907	0.00	0.00
ATOM	5293	HD2	ARG	X	352	53.275	9.513	41.400	0.00	0.00
ATOM	5294	HD3	ARG	X	352	54.155	8.129	41.383	0.00	0.00
ATOM	5295	NE	ARG	X	352	52.090	7.718	41.805	0.00	0.00
ATOM	5296	HE	ARG	X	352	52.090	6.978	42.493	0.00	0.00
ATOM	5297	CZ	ARG	X	352	50.927	8.040	41.284	0.00	0.00
ATOM	5298	NH1	ARG	X	352	50.768	8.972	40.387	0.00	0.00
ATOM	5299	HH11	ARG	X	352	51.496	9.567	40.019	0.00	0.00
ATOM	5300	HH12	ARG	X	352	49.863	8.836	39.959	0.00	0.00
ATOM	5301	NH2	ARG	X	352	49.791	7.474	41.690	0.00	0.00
ATOM	5302	HH21	ARG	X	352	49.780	6.835	42.472	0.00	0.00
ATOM	5303	HH22	ARG	X	352	48.901	7.850	41.393	0.00	0.00
ATOM	5304	C	ARG	X	352	54.941	10.840	45.643	0.00	0.00
ATOM	5305	O	ARG	X	352	53.974	11.535	45.592	0.00	0.00
ATOM	5306	N	ALA	X	353	55.618	10.502	46.761	0.00	0.00
ATOM	5307	H	ALA	X	353	56.414	9.882	46.727	0.00	0.00
ATOM	5308	CA	ALA	X	353	55.305	10.967	48.078	0.00	0.00
ATOM	5309	HA	ALA	X	353	54.249	10.807	48.296	0.00	0.00
ATOM	5310	CB	ALA	X	353	56.132	10.188	49.068	0.00	0.00
ATOM	5311	HB1	ALA	X	353	55.795	9.152	49.062	0.00	0.00
ATOM	5312	HB2	ALA	X	353	57.205	10.194	48.877	0.00	0.00
ATOM	5313	HB3	ALA	X	353	56.061	10.575	50.085	0.00	0.00
ATOM	5314	C	ALA	X	353	55.507	12.469	48.264	0.00	0.00
ATOM	5315	O	ALA	X	353	54.853	13.069	49.065	0.00	0.00
ATOM	5316	N	GLU	X	354	56.447	13.102	47.537	0.00	0.00
ATOM	5317	H	GLU	X	354	57.154	12.599	47.019	0.00	0.00
ATOM	5318	CA	GLU	X	354	56.698	14.524	47.725	0.00	0.00
ATOM	5319	HA	GLU	X	354	56.435	14.888	48.718	0.00	0.00
ATOM	5320	CB	GLU	X	354	58.173	14.702	47.428	0.00	0.00
ATOM	5321	HB2	GLU	X	354	58.400	14.084	46.558	0.00	0.00
ATOM	5322	HB3	GLU	X	354	58.417	15.729	47.156	0.00	0.00
ATOM	5323	CG	GLU	X	354	59.066	14.215	48.581	0.00	0.00
ATOM	5324	HG2	GLU	X	354	58.771	14.827	49.433	0.00	0.00

ATOM	5325	HG3	GLU	X	354	58.775	13.182	48.769	0.00	0.00
ATOM	5326	CD	GLU	X	354	60.574	14.124	48.326	0.00	0.00
ATOM	5327	OE1	GLU	X	354	61.303	14.027	49.345	0.00	0.00
ATOM	5328	OE2	GLU	X	354	61.039	14.249	47.146	0.00	0.00
ATOM	5329	C	GLU	X	354	55.786	15.308	46.810	0.00	0.00
ATOM	5330	O	GLU	X	354	55.386	16.419	47.167	0.00	0.00
ATOM	5331	N	PHE	X	355	55.315	14.688	45.684	0.00	0.00
ATOM	5332	H	PHE	X	355	55.692	13.805	45.371	0.00	0.00
ATOM	5333	CA	PHE	X	355	54.127	15.162	44.997	0.00	0.00
ATOM	5334	HA	PHE	X	355	54.296	16.210	44.747	0.00	0.00
ATOM	5335	CB	PHE	X	355	54.008	14.384	43.672	0.00	0.00
ATOM	5336	HB2	PHE	X	355	54.684	14.808	42.929	0.00	0.00
ATOM	5337	HB3	PHE	X	355	54.158	13.334	43.924	0.00	0.00
ATOM	5338	CG	PHE	X	355	52.718	14.426	42.890	0.00	0.00
ATOM	5339	CD1	PHE	X	355	51.925	15.588	42.843	0.00	0.00
ATOM	5340	HD1	PHE	X	355	52.180	16.475	43.402	0.00	0.00
ATOM	5341	CE1	PHE	X	355	50.917	15.703	41.886	0.00	0.00
ATOM	5342	HE1	PHE	X	355	50.312	16.586	41.744	0.00	0.00
ATOM	5343	CZ	PHE	X	355	50.649	14.612	41.014	0.00	0.00
ATOM	5344	HZ	PHE	X	355	49.788	14.598	40.362	0.00	0.00
ATOM	5345	CE2	PHE	X	355	51.325	13.410	41.283	0.00	0.00
ATOM	5346	HE2	PHE	X	355	51.075	12.561	40.665	0.00	0.00
ATOM	5347	CD2	PHE	X	355	52.319	13.261	42.202	0.00	0.00
ATOM	5348	HD2	PHE	X	355	52.769	12.292	42.360	0.00	0.00
ATOM	5349	C	PHE	X	355	52.795	15.050	45.811	0.00	0.00
ATOM	5350	O	PHE	X	355	51.950	15.973	45.787	0.00	0.00
ATOM	5351	N	LEU	X	356	52.620	14.069	46.683	0.00	0.00
ATOM	5352	H	LEU	X	356	53.278	13.308	46.592	0.00	0.00
ATOM	5353	CA	LEU	X	356	51.446	13.946	47.460	0.00	0.00
ATOM	5354	HA	LEU	X	356	50.635	14.131	46.755	0.00	0.00
ATOM	5355	CB	LEU	X	356	51.381	12.509	48.059	0.00	0.00
ATOM	5356	HB2	LEU	X	356	51.179	11.770	47.283	0.00	0.00
ATOM	5357	HB3	LEU	X	356	52.377	12.356	48.473	0.00	0.00
ATOM	5358	CG	LEU	X	356	50.358	12.202	49.152	0.00	0.00
ATOM	5359	HG	LEU	X	356	50.377	12.925	49.967	0.00	0.00
ATOM	5360	CD1	LEU	X	356	48.925	12.354	48.641	0.00	0.00
ATOM	5361	HD11	LEU	X	356	48.285	12.066	49.475	0.00	0.00
ATOM	5362	HD12	LEU	X	356	48.707	13.316	48.177	0.00	0.00
ATOM	5363	HD13	LEU	X	356	48.685	11.651	47.843	0.00	0.00
ATOM	5364	CD2	LEU	X	356	50.585	10.762	49.688	0.00	0.00
ATOM	5365	HD21	LEU	X	356	50.487	10.116	48.815	0.00	0.00
ATOM	5366	HD22	LEU	X	356	51.587	10.629	50.096	0.00	0.00
ATOM	5367	HD23	LEU	X	356	49.840	10.510	50.443	0.00	0.00
ATOM	5368	C	LEU	X	356	51.448	15.041	48.535	0.00	0.00
ATOM	5369	O	LEU	X	356	50.432	15.708	48.648	0.00	0.00
ATOM	5370	N	ALA	X	357	52.577	15.408	49.097	0.00	0.00
ATOM	5371	H	ALA	X	357	53.357	14.767	49.052	0.00	0.00
ATOM	5372	CA	ALA	X	357	52.663	16.550	50.026	0.00	0.00
ATOM	5373	HA	ALA	X	357	51.819	16.470	50.711	0.00	0.00
ATOM	5374	CB	ALA	X	357	54.028	16.624	50.673	0.00	0.00
ATOM	5375	HB1	ALA	X	357	54.236	17.634	51.027	0.00	0.00
ATOM	5376	HB2	ALA	X	357	54.411	15.859	51.348	0.00	0.00
ATOM	5377	HB3	ALA	X	357	54.790	16.665	49.894	0.00	0.00
ATOM	5378	C	ALA	X	357	52.377	17.933	49.351	0.00	0.00
ATOM	5379	O	ALA	X	357	51.675	18.862	49.796	0.00	0.00
ATOM	5380	N	GLY	X	358	52.797	18.003	48.087	0.00	0.00
ATOM	5381	H	GLY	X	358	53.518	17.381	47.751	0.00	0.00
ATOM	5382	CA	GLY	X	358	52.510	19.057	47.119	0.00	0.00
ATOM	5383	HA2	GLY	X	358	52.914	20.046	47.369	0.00	0.00
ATOM	5384	HA3	GLY	X	358	52.870	18.822	46.135	0.00	0.00
ATOM	5385	C	GLY	X	358	51.064	19.399	46.942	0.00	0.00
ATOM	5386	O	GLY	X	358	50.621	20.569	46.833	0.00	0.00
ATOM	5387	N	VAL	X	359	50.216	18.396	46.829	0.00	0.00
ATOM	5388	H	VAL	X	359	50.650	17.486	46.774	0.00	0.00
ATOM	5389	CA	VAL	X	359	48.755	18.622	46.811	0.00	0.00
ATOM	5390	HA	VAL	X	359	48.498	19.447	46.147	0.00	0.00
ATOM	5391	CB	VAL	X	359	48.026	17.313	46.327	0.00	0.00
ATOM	5392	HB	VAL	X	359	48.315	16.620	47.116	0.00	0.00
ATOM	5393	CG1	VAL	X	359	46.560	17.531	46.289	0.00	0.00
ATOM	5394	HG11	VAL	X	359	46.075	16.780	45.666	0.00	0.00

ATOM	5395	HG12	VAL	X	359	46.198	17.431	47.312	0.00	0.00
ATOM	5396	HG13	VAL	X	359	46.300	18.504	45.873	0.00	0.00
ATOM	5397	CG2	VAL	X	359	48.536	16.737	44.981	0.00	0.00
ATOM	5398	HG21	VAL	X	359	49.607	16.542	45.048	0.00	0.00
ATOM	5399	HG22	VAL	X	359	47.992	15.811	44.799	0.00	0.00
ATOM	5400	HG23	VAL	X	359	48.228	17.464	44.229	0.00	0.00
ATOM	5401	C	VAL	X	359	48.267	19.071	48.142	0.00	0.00
ATOM	5402	O	VAL	X	359	47.557	20.088	48.186	0.00	0.00
ATOM	5403	N	ARG	X	360	48.753	18.524	49.275	0.00	0.00
ATOM	5404	H	ARG	X	360	49.366	17.722	49.239	0.00	0.00
ATOM	5405	CA	ARG	X	360	48.347	19.008	50.553	0.00	0.00
ATOM	5406	HA	ARG	X	360	47.275	18.858	50.678	0.00	0.00
ATOM	5407	CB	ARG	X	360	48.936	18.173	51.704	0.00	0.00
ATOM	5408	HB2	ARG	X	360	49.883	18.590	52.048	0.00	0.00
ATOM	5409	HB3	ARG	X	360	48.233	18.356	52.517	0.00	0.00
ATOM	5410	CG	ARG	X	360	48.893	16.607	51.365	0.00	0.00
ATOM	5411	HG2	ARG	X	360	48.014	16.332	50.783	0.00	0.00
ATOM	5412	HG3	ARG	X	360	49.778	16.333	50.789	0.00	0.00
ATOM	5413	CD	ARG	X	360	48.936	15.890	52.668	0.00	0.00
ATOM	5414	HD2	ARG	X	360	49.660	16.485	53.225	0.00	0.00
ATOM	5415	HD3	ARG	X	360	47.990	16.004	53.196	0.00	0.00
ATOM	5416	NE	ARG	X	360	49.317	14.514	52.622	0.00	0.00
ATOM	5417	HE	ARG	X	360	50.309	14.391	52.771	0.00	0.00
ATOM	5418	CZ	ARG	X	360	48.500	13.489	52.552	0.00	0.00
ATOM	5419	NH1	ARG	X	360	47.215	13.555	52.471	0.00	0.00
ATOM	5420	HH11	ARG	X	360	46.707	14.428	52.467	0.00	0.00
ATOM	5421	HH12	ARG	X	360	46.668	12.706	52.483	0.00	0.00
ATOM	5422	NH2	ARG	X	360	48.997	12.288	52.446	0.00	0.00
ATOM	5423	HH21	ARG	X	360	49.994	12.135	52.483	0.00	0.00
ATOM	5424	HH22	ARG	X	360	48.455	11.436	52.408	0.00	0.00
ATOM	5425	C	ARG	X	360	48.718	20.490	50.803	0.00	0.00
ATOM	5426	O	ARG	X	360	48.091	21.193	51.614	0.00	0.00
ATOM	5427	N	VAL	X	361	49.820	20.954	50.294	0.00	0.00
ATOM	5428	H	VAL	X	361	50.443	20.299	49.845	0.00	0.00
ATOM	5429	CA	VAL	X	361	50.122	22.432	50.400	0.00	0.00
ATOM	5430	HA	VAL	X	361	49.778	22.903	51.321	0.00	0.00
ATOM	5431	CB	VAL	X	361	51.637	22.746	50.387	0.00	0.00
ATOM	5432	HB	VAL	X	361	51.730	23.832	50.406	0.00	0.00
ATOM	5433	CG1	VAL	X	361	52.413	22.245	51.619	0.00	0.00
ATOM	5434	HG11	VAL	X	361	51.843	22.324	52.545	0.00	0.00
ATOM	5435	HG12	VAL	X	361	52.539	21.169	51.494	0.00	0.00
ATOM	5436	HG13	VAL	X	361	53.365	22.769	51.692	0.00	0.00
ATOM	5437	CG2	VAL	X	361	52.505	22.249	49.215	0.00	0.00
ATOM	5438	HG21	VAL	X	361	52.334	22.730	48.252	0.00	0.00
ATOM	5439	HG22	VAL	X	361	53.562	22.407	49.431	0.00	0.00
ATOM	5440	HG23	VAL	X	361	52.396	21.169	49.115	0.00	0.00
ATOM	5441	C	VAL	X	361	49.478	23.278	49.380	0.00	0.00
ATOM	5442	O	VAL	X	361	49.135	24.448	49.678	0.00	0.00
ATOM	5443	N	GLY	X	362	49.411	22.732	48.154	0.00	0.00
ATOM	5444	H	GLY	X	362	49.605	21.747	48.043	0.00	0.00
ATOM	5445	CA	GLY	X	362	49.087	23.579	46.972	0.00	0.00
ATOM	5446	HA2	GLY	X	362	49.385	24.555	47.269	0.00	0.00
ATOM	5447	HA3	GLY	X	362	49.734	23.304	46.116	0.00	0.00
ATOM	5448	C	GLY	X	362	47.598	23.511	46.632	0.00	0.00
ATOM	5449	O	GLY	X	362	47.155	24.439	46.000	0.00	0.00
ATOM	5450	N	VAL	X	363	46.904	22.507	47.125	0.00	0.00
ATOM	5451	H	VAL	X	363	47.462	21.890	47.698	0.00	0.00
ATOM	5452	CA	VAL	X	363	45.465	22.475	47.321	0.00	0.00
ATOM	5453	HA	VAL	X	363	45.104	23.348	46.776	0.00	0.00
ATOM	5454	CB	VAL	X	363	44.748	21.184	46.746	0.00	0.00
ATOM	5455	HB	VAL	X	363	45.017	20.265	47.266	0.00	0.00
ATOM	5456	CG1	VAL	X	363	43.179	21.494	46.826	0.00	0.00
ATOM	5457	HG11	VAL	X	363	43.087	22.308	46.108	0.00	0.00
ATOM	5458	HG12	VAL	X	363	42.568	20.700	46.396	0.00	0.00
ATOM	5459	HG13	VAL	X	363	42.893	21.761	47.844	0.00	0.00
ATOM	5460	CG2	VAL	X	363	45.087	20.978	45.271	0.00	0.00
ATOM	5461	HG21	VAL	X	363	46.168	20.849	45.223	0.00	0.00
ATOM	5462	HG22	VAL	X	363	44.572	20.057	44.998	0.00	0.00
ATOM	5463	HG23	VAL	X	363	44.917	21.834	44.618	0.00	0.00
ATOM	5464	C	VAL	X	363	45.159	22.666	48.843	0.00	0.00

ATOM	5465	O	VAL	X	363	45.243	21.640	49.502	0.00	0.00
ATOM	5466	N	PRO	X	364	45.047	23.903	49.353	0.00	0.00
ATOM	5467	CD	PRO	X	364	45.118	25.198	48.709	0.00	0.00
ATOM	5468	HD2	PRO	X	364	44.091	25.498	48.500	0.00	0.00
ATOM	5469	HD3	PRO	X	364	45.738	25.070	47.822	0.00	0.00
ATOM	5470	CG	PRO	X	364	45.771	26.184	49.693	0.00	0.00
ATOM	5471	HG2	PRO	X	364	45.512	27.240	49.616	0.00	0.00
ATOM	5472	HG3	PRO	X	364	46.819	25.889	49.655	0.00	0.00
ATOM	5473	CB	PRO	X	364	45.112	25.658	51.003	0.00	0.00
ATOM	5474	HB2	PRO	X	364	44.132	26.116	51.139	0.00	0.00
ATOM	5475	HB3	PRO	X	364	45.656	25.773	51.940	0.00	0.00
ATOM	5476	CA	PRO	X	364	45.042	24.159	50.746	0.00	0.00
ATOM	5477	HA	PRO	X	364	45.895	23.662	51.207	0.00	0.00
ATOM	5478	C	PRO	X	364	43.729	23.583	51.366	0.00	0.00
ATOM	5479	O	PRO	X	364	42.667	23.523	50.692	0.00	0.00
ATOM	5480	N	GLN	X	365	43.852	23.152	52.586	0.00	0.00
ATOM	5481	H	GLN	X	365	44.781	23.217	52.976	0.00	0.00
ATOM	5482	CA	GLN	X	365	42.869	22.342	53.348	0.00	0.00
ATOM	5483	HA	GLN	X	365	43.391	21.766	54.112	0.00	0.00
ATOM	5484	CB	GLN	X	365	41.869	23.261	53.986	0.00	0.00
ATOM	5485	HB2	GLN	X	365	41.266	22.676	54.681	0.00	0.00
ATOM	5486	HB3	GLN	X	365	42.462	23.917	54.623	0.00	0.00
ATOM	5487	CG	GLN	X	365	40.997	24.191	53.058	0.00	0.00
ATOM	5488	HG2	GLN	X	365	41.675	24.920	52.614	0.00	0.00
ATOM	5489	HG3	GLN	X	365	40.534	23.585	52.280	0.00	0.00
ATOM	5490	CD	GLN	X	365	39.882	24.831	53.861	0.00	0.00
ATOM	5491	OE1	GLN	X	365	40.135	25.945	54.315	0.00	0.00
ATOM	5492	NE2	GLN	X	365	38.777	24.148	54.157	0.00	0.00
ATOM	5493	HE21	GLN	X	365	38.106	24.606	54.758	0.00	0.00
ATOM	5494	HE22	GLN	X	365	38.593	23.235	53.768	0.00	0.00
ATOM	5495	C	GLN	X	365	42.196	21.214	52.584	0.00	0.00
ATOM	5496	O	GLN	X	365	41.080	20.785	52.921	0.00	0.00
ATOM	5497	N	VAL	X	366	42.927	20.559	51.621	0.00	0.00
ATOM	5498	H	VAL	X	366	43.917	20.757	51.577	0.00	0.00
ATOM	5499	CA	VAL	X	366	42.473	19.430	50.847	0.00	0.00
ATOM	5500	HA	VAL	X	366	41.431	19.575	50.563	0.00	0.00
ATOM	5501	CB	VAL	X	366	43.212	19.055	49.542	0.00	0.00
ATOM	5502	HB	VAL	X	366	43.450	20.043	49.148	0.00	0.00
ATOM	5503	CG1	VAL	X	366	44.486	18.320	49.781	0.00	0.00
ATOM	5504	HG11	VAL	X	366	45.057	18.406	48.857	0.00	0.00
ATOM	5505	HG12	VAL	X	366	45.129	18.636	50.603	0.00	0.00
ATOM	5506	HG13	VAL	X	366	44.337	17.264	50.008	0.00	0.00
ATOM	5507	CG2	VAL	X	366	42.256	18.350	48.537	0.00	0.00
ATOM	5508	HG21	VAL	X	366	41.356	18.953	48.419	0.00	0.00
ATOM	5509	HG22	VAL	X	366	42.814	18.230	47.609	0.00	0.00
ATOM	5510	HG23	VAL	X	366	41.941	17.374	48.908	0.00	0.00
ATOM	5511	C	VAL	X	366	42.383	18.170	51.871	0.00	0.00
ATOM	5512	O	VAL	X	366	43.328	18.050	52.591	0.00	0.00
ATOM	5513	N	SER	X	367	41.360	17.295	51.796	0.00	0.00
ATOM	5514	H	SER	X	367	40.606	17.433	51.138	0.00	0.00
ATOM	5515	CA	SER	X	367	41.345	16.079	52.532	0.00	0.00
ATOM	5516	HA	SER	X	367	41.663	16.474	53.497	0.00	0.00
ATOM	5517	CB	SER	X	367	39.912	15.499	52.733	0.00	0.00
ATOM	5518	HB2	SER	X	367	39.875	14.585	53.326	0.00	0.00
ATOM	5519	HB3	SER	X	367	39.337	16.283	53.226	0.00	0.00
ATOM	5520	OG	SER	X	367	39.242	15.260	51.511	0.00	0.00
ATOM	5521	HG	SER	X	367	38.405	14.850	51.741	0.00	0.00
ATOM	5522	C	SER	X	367	42.357	15.103	52.014	0.00	0.00
ATOM	5523	O	SER	X	367	42.785	15.130	50.854	0.00	0.00
ATOM	5524	N	ASP	X	368	42.786	14.167	52.880	0.00	0.00
ATOM	5525	H	ASP	X	368	42.321	14.226	53.774	0.00	0.00
ATOM	5526	CA	ASP	X	368	43.633	12.958	52.603	0.00	0.00
ATOM	5527	HA	ASP	X	368	44.599	13.384	52.329	0.00	0.00
ATOM	5528	CB	ASP	X	368	43.878	12.159	53.892	0.00	0.00
ATOM	5529	HB2	ASP	X	368	44.261	12.860	54.633	0.00	0.00
ATOM	5530	HB3	ASP	X	368	42.930	11.797	54.289	0.00	0.00
ATOM	5531	CG	ASP	X	368	44.873	11.017	53.685	0.00	0.00
ATOM	5532	OD1	ASP	X	368	46.044	11.321	53.443	0.00	0.00
ATOM	5533	OD2	ASP	X	368	44.491	9.847	53.657	0.00	0.00
ATOM	5534	C	ASP	X	368	43.151	12.160	51.403	0.00	0.00

ATOM	5535	O	ASP	X	368	43.814	12.025	50.364	0.00	0.00
ATOM	5536	N	LEU	X	369	41.934	11.628	51.530	0.00	0.00
ATOM	5537	H	LEU	X	369	41.422	11.806	52.382	0.00	0.00
ATOM	5538	CA	LEU	X	369	41.272	10.872	50.458	0.00	0.00
ATOM	5539	HA	LEU	X	369	41.955	10.050	50.246	0.00	0.00
ATOM	5540	CB	LEU	X	369	39.897	10.397	50.971	0.00	0.00
ATOM	5541	HB2	LEU	X	369	39.359	9.794	50.241	0.00	0.00
ATOM	5542	HB3	LEU	X	369	40.079	9.519	51.591	0.00	0.00
ATOM	5543	CG	LEU	X	369	38.911	11.389	51.626	0.00	0.00
ATOM	5544	HG	LEU	X	369	39.517	12.190	52.049	0.00	0.00
ATOM	5545	CD1	LEU	X	369	37.775	11.991	50.675	0.00	0.00
ATOM	5546	HD11	LEU	X	369	36.943	12.413	51.238	0.00	0.00
ATOM	5547	HD12	LEU	X	369	38.298	12.862	50.281	0.00	0.00
ATOM	5548	HD13	LEU	X	369	37.490	11.378	49.819	0.00	0.00
ATOM	5549	CD2	LEU	X	369	38.069	10.622	52.697	0.00	0.00
ATOM	5550	HD21	LEU	X	369	37.296	11.292	53.074	0.00	0.00
ATOM	5551	HD22	LEU	X	369	37.540	9.794	52.227	0.00	0.00
ATOM	5552	HD23	LEU	X	369	38.683	10.214	53.501	0.00	0.00
ATOM	5553	C	LEU	X	369	41.121	11.526	49.115	0.00	0.00
ATOM	5554	O	LEU	X	369	41.074	10.889	48.033	0.00	0.00
ATOM	5555	N	ALA	X	370	41.020	12.903	49.160	0.00	0.00
ATOM	5556	H	ALA	X	370	41.025	13.267	50.102	0.00	0.00
ATOM	5557	CA	ALA	X	370	40.984	13.801	48.004	0.00	0.00
ATOM	5558	HA	ALA	X	370	40.413	13.364	47.185	0.00	0.00
ATOM	5559	CB	ALA	X	370	40.296	15.110	48.456	0.00	0.00
ATOM	5560	HB1	ALA	X	370	39.258	14.912	48.723	0.00	0.00
ATOM	5561	HB2	ALA	X	370	40.826	15.571	49.290	0.00	0.00
ATOM	5562	HB3	ALA	X	370	40.362	15.796	47.612	0.00	0.00
ATOM	5563	C	ALA	X	370	42.416	13.932	47.389	0.00	0.00
ATOM	5564	O	ALA	X	370	42.638	13.595	46.233	0.00	0.00
ATOM	5565	N	ALA	X	371	43.431	14.353	48.191	0.00	0.00
ATOM	5566	H	ALA	X	371	43.227	14.676	49.126	0.00	0.00
ATOM	5567	CA	ALA	X	371	44.847	14.303	47.720	0.00	0.00
ATOM	5568	HA	ALA	X	371	44.994	15.113	47.006	0.00	0.00
ATOM	5569	CB	ALA	X	371	45.900	14.519	48.756	0.00	0.00
ATOM	5570	HB1	ALA	X	371	46.914	14.667	48.384	0.00	0.00
ATOM	5571	HB2	ALA	X	371	45.629	15.457	49.242	0.00	0.00
ATOM	5572	HB3	ALA	X	371	45.797	13.869	49.625	0.00	0.00
ATOM	5573	C	ALA	X	371	45.235	13.036	46.962	0.00	0.00
ATOM	5574	O	ALA	X	371	45.920	12.950	45.914	0.00	0.00
ATOM	5575	N	GLU	X	372	44.860	11.933	47.551	0.00	0.00
ATOM	5576	H	GLU	X	372	44.323	11.962	48.406	0.00	0.00
ATOM	5577	CA	GLU	X	372	45.052	10.648	46.892	0.00	0.00
ATOM	5578	HA	GLU	X	372	46.086	10.670	46.548	0.00	0.00
ATOM	5579	CB	GLU	X	372	44.817	9.448	47.856	0.00	0.00
ATOM	5580	HB2	GLU	X	372	43.802	9.483	48.252	0.00	0.00
ATOM	5581	HB3	GLU	X	372	44.988	8.499	47.348	0.00	0.00
ATOM	5582	CG	GLU	X	372	45.783	9.489	49.103	0.00	0.00
ATOM	5583	HG2	GLU	X	372	46.804	9.498	48.721	0.00	0.00
ATOM	5584	HG3	GLU	X	372	45.765	10.451	49.614	0.00	0.00
ATOM	5585	CD	GLU	X	372	45.684	8.349	50.087	0.00	0.00
ATOM	5586	OE1	GLU	X	372	44.615	7.792	50.225	0.00	0.00
ATOM	5587	OE2	GLU	X	372	46.681	7.933	50.623	0.00	0.00
ATOM	5588	C	GLU	X	372	44.244	10.446	45.658	0.00	0.00
ATOM	5589	O	GLU	X	372	44.794	9.870	44.755	0.00	0.00
ATOM	5590	N	ALA	X	373	42.997	10.916	45.627	0.00	0.00
ATOM	5591	H	ALA	X	373	42.581	11.370	46.428	0.00	0.00
ATOM	5592	CA	ALA	X	373	42.207	10.829	44.367	0.00	0.00
ATOM	5593	HA	ALA	X	373	42.356	9.814	44.000	0.00	0.00
ATOM	5594	CB	ALA	X	373	40.739	11.122	44.502	0.00	0.00
ATOM	5595	HB1	ALA	X	373	40.326	10.945	43.509	0.00	0.00
ATOM	5596	HB2	ALA	X	373	40.353	10.330	45.143	0.00	0.00
ATOM	5597	HB3	ALA	X	373	40.640	12.137	44.888	0.00	0.00
ATOM	5598	C	ALA	X	373	42.792	11.720	43.247	0.00	0.00
ATOM	5599	O	ALA	X	373	42.532	11.405	42.064	0.00	0.00
ATOM	5600	N	VAL	X	374	43.449	12.846	43.636	0.00	0.00
ATOM	5601	H	VAL	X	374	43.354	13.016	44.627	0.00	0.00
ATOM	5602	CA	VAL	X	374	44.075	13.757	42.741	0.00	0.00
ATOM	5603	HA	VAL	X	374	43.438	13.955	41.879	0.00	0.00
ATOM	5604	CB	VAL	X	374	44.437	15.092	43.323	0.00	0.00

ATOM	5605	HB	VAL	X	374	44.996	14.940	44.247	0.00	0.00
ATOM	5606	CG1	VAL	X	374	45.122	16.077	42.385	0.00	0.00
ATOM	5607	HG11	VAL	X	374	45.253	17.049	42.861	0.00	0.00
ATOM	5608	HG12	VAL	X	374	46.163	15.856	42.151	0.00	0.00
ATOM	5609	HG13	VAL	X	374	44.535	16.254	41.483	0.00	0.00
ATOM	5610	CG2	VAL	X	374	43.263	15.937	43.891	0.00	0.00
ATOM	5611	HG21	VAL	X	374	42.549	15.441	44.548	0.00	0.00
ATOM	5612	HG22	VAL	X	374	43.663	16.749	44.498	0.00	0.00
ATOM	5613	HG23	VAL	X	374	42.766	16.351	43.014	0.00	0.00
ATOM	5614	C	VAL	X	374	45.347	13.119	42.134	0.00	0.00
ATOM	5615	O	VAL	X	374	45.490	12.992	40.922	0.00	0.00
ATOM	5616	N	VAL	X	375	46.276	12.515	42.900	0.00	0.00
ATOM	5617	H	VAL	X	375	46.003	12.579	43.870	0.00	0.00
ATOM	5618	CA	VAL	X	375	47.463	11.658	42.655	0.00	0.00
ATOM	5619	HA	VAL	X	375	48.176	12.153	41.995	0.00	0.00
ATOM	5620	CB	VAL	X	375	48.086	11.219	43.990	0.00	0.00
ATOM	5621	HB	VAL	X	375	47.197	11.158	44.617	0.00	0.00
ATOM	5622	CG1	VAL	X	375	49.013	9.944	44.016	0.00	0.00
ATOM	5623	HG11	VAL	X	375	48.459	9.046	43.743	0.00	0.00
ATOM	5624	HG12	VAL	X	375	49.831	9.976	43.297	0.00	0.00
ATOM	5625	HG13	VAL	X	375	49.297	9.725	45.046	0.00	0.00
ATOM	5626	CG2	VAL	X	375	48.894	12.257	44.672	0.00	0.00
ATOM	5627	HG21	VAL	X	375	49.883	12.111	44.238	0.00	0.00
ATOM	5628	HG22	VAL	X	375	48.333	13.146	44.385	0.00	0.00
ATOM	5629	HG23	VAL	X	375	48.971	12.100	45.748	0.00	0.00
ATOM	5630	C	VAL	X	375	47.033	10.432	41.794	0.00	0.00
ATOM	5631	O	VAL	X	375	47.808	10.035	40.897	0.00	0.00
ATOM	5632	N	LEU	X	376	45.762	9.876	41.836	0.00	0.00
ATOM	5633	H	LEU	X	376	45.293	9.987	42.723	0.00	0.00
ATOM	5634	CA	LEU	X	376	45.125	9.001	40.807	0.00	0.00
ATOM	5635	HA	LEU	X	376	45.862	8.228	40.591	0.00	0.00
ATOM	5636	CB	LEU	X	376	43.867	8.379	41.428	0.00	0.00
ATOM	5637	HB2	LEU	X	376	44.158	7.767	42.282	0.00	0.00
ATOM	5638	HB3	LEU	X	376	43.156	9.109	41.815	0.00	0.00
ATOM	5639	CG	LEU	X	376	43.147	7.439	40.478	0.00	0.00
ATOM	5640	HG	LEU	X	376	42.891	7.860	39.506	0.00	0.00
ATOM	5641	CD1	LEU	X	376	43.820	6.108	40.037	0.00	0.00
ATOM	5642	HD11	LEU	X	376	43.744	5.249	40.704	0.00	0.00
ATOM	5643	HD12	LEU	X	376	43.459	5.871	39.037	0.00	0.00
ATOM	5644	HD13	LEU	X	376	44.870	6.298	39.813	0.00	0.00
ATOM	5645	CD2	LEU	X	376	41.873	6.925	41.208	0.00	0.00
ATOM	5646	HD21	LEU	X	376	41.332	6.336	40.467	0.00	0.00
ATOM	5647	HD22	LEU	X	376	42.053	6.267	42.058	0.00	0.00
ATOM	5648	HD23	LEU	X	376	41.235	7.783	41.418	0.00	0.00
ATOM	5649	C	LEU	X	376	44.870	9.644	39.495	0.00	0.00
ATOM	5650	O	LEU	X	376	45.348	9.265	38.443	0.00	0.00
ATOM	5651	N	HIE	X	377	44.042	10.717	39.520	0.00	0.00
ATOM	5652	H	HIE	X	377	43.877	11.111	40.436	0.00	0.00
ATOM	5653	CA	HIE	X	377	43.668	11.507	38.368	0.00	0.00
ATOM	5654	HA	HIE	X	377	43.249	10.761	37.693	0.00	0.00
ATOM	5655	CB	HIE	X	377	42.635	12.522	38.954	0.00	0.00
ATOM	5656	HB2	HIE	X	377	42.038	11.993	39.698	0.00	0.00
ATOM	5657	HB3	HIE	X	377	43.259	13.369	39.239	0.00	0.00
ATOM	5658	CG	HIE	X	377	41.648	12.950	37.929	0.00	0.00
ATOM	5659	ND1	HIE	X	377	40.531	12.130	37.579	0.00	0.00
ATOM	5660	CE1	HIE	X	377	39.929	12.849	36.603	0.00	0.00
ATOM	5661	HE1	HIE	X	377	39.105	12.433	36.041	0.00	0.00
ATOM	5662	NE2	HIE	X	377	40.638	13.941	36.277	0.00	0.00
ATOM	5663	HE2	HIE	X	377	40.573	14.528	35.458	0.00	0.00
ATOM	5664	CD2	HIE	X	377	41.715	14.031	37.079	0.00	0.00
ATOM	5665	HD2	HIE	X	377	42.497	14.772	37.148	0.00	0.00
ATOM	5666	C	HIE	X	377	44.917	12.184	37.607	0.00	0.00
ATOM	5667	O	HIE	X	377	44.794	12.413	36.405	0.00	0.00
ATOM	5668	N	TYR	X	378	46.029	12.500	38.242	0.00	0.00
ATOM	5669	H	TYR	X	378	45.942	12.504	39.249	0.00	0.00
ATOM	5670	CA	TYR	X	378	47.235	13.163	37.661	0.00	0.00
ATOM	5671	HA	TYR	X	378	47.134	13.477	36.623	0.00	0.00
ATOM	5672	CB	TYR	X	378	47.568	14.405	38.520	0.00	0.00
ATOM	5673	HB2	TYR	X	378	47.564	14.131	39.575	0.00	0.00
ATOM	5674	HB3	TYR	X	378	48.579	14.716	38.254	0.00	0.00

ATOM	5675	CG	TYR	X	378	46.590	15.557	38.151	0.00	0.00
ATOM	5676	CD1	TYR	X	378	46.910	16.564	37.134	0.00	0.00
ATOM	5677	HD1	TYR	X	378	47.892	16.406	36.712	0.00	0.00
ATOM	5678	CE1	TYR	X	378	45.921	17.516	36.699	0.00	0.00
ATOM	5679	HE1	TYR	X	378	46.173	18.243	35.941	0.00	0.00
ATOM	5680	CZ	TYR	X	378	44.674	17.546	37.363	0.00	0.00
ATOM	5681	OH	TYR	X	378	43.706	18.389	37.020	0.00	0.00
ATOM	5682	HH	TYR	X	378	44.098	19.108	36.519	0.00	0.00
ATOM	5683	CE2	TYR	X	378	44.340	16.573	38.323	0.00	0.00
ATOM	5684	HE2	TYR	X	378	43.366	16.660	38.782	0.00	0.00
ATOM	5685	CD2	TYR	X	378	45.304	15.664	38.747	0.00	0.00
ATOM	5686	HD2	TYR	X	378	45.109	14.966	39.548	0.00	0.00
ATOM	5687	C	TYR	X	378	48.480	12.148	37.669	0.00	0.00
ATOM	5688	O	TYR	X	378	49.630	12.551	37.721	0.00	0.00
ATOM	5689	N	THR	X	379	48.286	10.824	37.556	0.00	0.00
ATOM	5690	H	THR	X	379	47.325	10.524	37.636	0.00	0.00
ATOM	5691	CA	THR	X	379	49.243	9.778	37.268	0.00	0.00
ATOM	5692	HA	THR	X	379	50.065	9.776	37.984	0.00	0.00
ATOM	5693	CB	THR	X	379	48.558	8.404	37.434	0.00	0.00
ATOM	5694	HB	THR	X	379	47.664	8.291	36.821	0.00	0.00
ATOM	5695	CG2	THR	X	379	49.528	7.207	37.273	0.00	0.00
ATOM	5696	HG21	THR	X	379	49.086	6.300	37.686	0.00	0.00
ATOM	5697	HG22	THR	X	379	49.740	6.919	36.243	0.00	0.00
ATOM	5698	HG23	THR	X	379	50.496	7.407	37.732	0.00	0.00
ATOM	5699	OG1	THR	X	379	48.243	8.278	38.764	0.00	0.00
ATOM	5700	HG1	THR	X	379	47.679	8.939	39.172	0.00	0.00
ATOM	5701	C	THR	X	379	49.845	9.994	35.842	0.00	0.00
ATOM	5702	O	THR	X	379	49.080	10.393	34.960	0.00	0.00
ATOM	5703	N	ASP	X	380	51.088	9.662	35.600	0.00	0.00
ATOM	5704	H	ASP	X	380	51.588	9.351	36.420	0.00	0.00
ATOM	5705	CA	ASP	X	380	51.592	9.373	34.237	0.00	0.00
ATOM	5706	HA	ASP	X	380	50.799	9.746	33.587	0.00	0.00
ATOM	5707	CB	ASP	X	380	52.933	10.099	34.015	0.00	0.00
ATOM	5708	HB2	ASP	X	380	52.723	11.167	34.074	0.00	0.00
ATOM	5709	HB3	ASP	X	380	53.619	9.784	34.802	0.00	0.00
ATOM	5710	CG	ASP	X	380	53.625	9.610	32.714	0.00	0.00
ATOM	5711	OD1	ASP	X	380	53.121	9.602	31.620	0.00	0.00
ATOM	5712	OD2	ASP	X	380	54.818	9.276	32.850	0.00	0.00
ATOM	5713	C	ASP	X	380	51.627	7.837	34.035	0.00	0.00
ATOM	5714	O	ASP	X	380	51.869	7.037	34.942	0.00	0.00
ATOM	5715	N	TRP	X	381	51.323	7.389	32.833	0.00	0.00
ATOM	5716	H	TRP	X	381	51.159	8.011	32.054	0.00	0.00
ATOM	5717	CA	TRP	X	381	51.427	5.922	32.507	0.00	0.00
ATOM	5718	HA	TRP	X	381	51.362	5.327	33.419	0.00	0.00
ATOM	5719	CB	TRP	X	381	50.258	5.489	31.592	0.00	0.00
ATOM	5720	HB2	TRP	X	381	50.146	6.127	30.716	0.00	0.00
ATOM	5721	HB3	TRP	X	381	50.319	4.474	31.201	0.00	0.00
ATOM	5722	CG	TRP	X	381	48.974	5.683	32.344	0.00	0.00
ATOM	5723	CD1	TRP	X	381	48.307	6.817	32.428	0.00	0.00
ATOM	5724	HD1	TRP	X	381	48.613	7.705	31.896	0.00	0.00
ATOM	5725	NE1	TRP	X	381	47.324	6.723	33.396	0.00	0.00
ATOM	5726	HE1	TRP	X	381	46.788	7.485	33.785	0.00	0.00
ATOM	5727	CE2	TRP	X	381	47.396	5.540	34.030	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	46.654	5.029	35.107	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	45.931	5.652	35.614	0.00	0.00
ATOM	5730	CH2	TRP	X	381	46.828	3.715	35.467	0.00	0.00
ATOM	5731	HH2	TRP	X	381	46.290	3.331	36.321	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	47.792	2.915	34.766	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	47.943	1.882	35.041	0.00	0.00
ATOM	5734	CE3	TRP	X	381	48.586	3.482	33.780	0.00	0.00
ATOM	5735	HE3	TRP	X	381	49.204	2.899	33.113	0.00	0.00
ATOM	5736	CD2	TRP	X	381	48.425	4.815	33.332	0.00	0.00
ATOM	5737	C	TRP	X	381	52.750	5.512	31.882	0.00	0.00
ATOM	5738	O	TRP	X	381	53.116	4.361	31.985	0.00	0.00
ATOM	5739	N	LEU	X	382	53.528	6.464	31.309	0.00	0.00
ATOM	5740	H	LEU	X	382	53.181	7.412	31.337	0.00	0.00
ATOM	5741	CA	LEU	X	382	54.861	6.157	30.790	0.00	0.00
ATOM	5742	HA	LEU	X	382	54.750	5.233	30.221	0.00	0.00
ATOM	5743	CB	LEU	X	382	55.267	7.292	29.857	0.00	0.00
ATOM	5744	HB2	LEU	X	382	54.500	7.376	29.087	0.00	0.00

ATOM	5745	HB3	LEU	X	382	55.243	8.228	30.415	0.00	0.00
ATOM	5746	CG	LEU	X	382	56.573	7.135	29.069	0.00	0.00
ATOM	5747	HG	LEU	X	382	56.770	8.085	28.571	0.00	0.00
ATOM	5748	CD1	LEU	X	382	57.855	6.820	29.899	0.00	0.00
ATOM	5749	HD11	LEU	X	382	57.841	7.421	30.808	0.00	0.00
ATOM	5750	HD12	LEU	X	382	57.946	5.762	30.143	0.00	0.00
ATOM	5751	HD13	LEU	X	382	58.754	7.068	29.336	0.00	0.00
ATOM	5752	CD2	LEU	X	382	56.316	6.146	27.996	0.00	0.00
ATOM	5753	HD21	LEU	X	382	55.732	6.669	27.239	0.00	0.00
ATOM	5754	HD22	LEU	X	382	57.273	5.959	27.508	0.00	0.00
ATOM	5755	HD23	LEU	X	382	55.885	5.207	28.344	0.00	0.00
ATOM	5756	C	LEU	X	382	55.845	5.797	31.930	0.00	0.00
ATOM	5757	O	LEU	X	382	56.373	4.710	31.971	0.00	0.00
ATOM	5758	N	HIE	X	383	56.035	6.779	32.839	0.00	0.00
ATOM	5759	H	HIE	X	383	55.622	7.699	32.774	0.00	0.00
ATOM	5760	CA	HIE	X	383	56.810	6.420	34.024	0.00	0.00
ATOM	5761	HA	HIE	X	383	56.735	5.352	34.229	0.00	0.00
ATOM	5762	CB	HIE	X	383	58.303	6.625	33.896	0.00	0.00
ATOM	5763	HB2	HIE	X	383	58.650	6.145	32.981	0.00	0.00
ATOM	5764	HB3	HIE	X	383	58.615	7.625	33.592	0.00	0.00
ATOM	5765	CG	HIE	X	383	59.142	6.223	35.116	0.00	0.00
ATOM	5766	ND1	HIE	X	383	58.725	5.256	36.074	0.00	0.00
ATOM	5767	CE1	HIE	X	383	59.717	5.157	36.938	0.00	0.00
ATOM	5768	HE1	HIE	X	383	59.658	4.487	37.783	0.00	0.00
ATOM	5769	NE2	HIE	X	383	60.725	6.021	36.629	0.00	0.00
ATOM	5770	HE2	HIE	X	383	61.542	6.196	37.196	0.00	0.00
ATOM	5771	CD2	HIE	X	383	60.409	6.629	35.485	0.00	0.00
ATOM	5772	HD2	HIE	X	383	61.009	7.272	34.858	0.00	0.00
ATOM	5773	C	HIE	X	383	56.241	7.200	35.246	0.00	0.00
ATOM	5774	O	HIE	X	383	56.584	8.390	35.276	0.00	0.00
ATOM	5775	N	PRO	X	384	55.413	6.717	36.157	0.00	0.00
ATOM	5776	CD	PRO	X	384	54.974	5.324	36.253	0.00	0.00
ATOM	5777	HD2	PRO	X	384	55.788	4.611	36.127	0.00	0.00
ATOM	5778	HD3	PRO	X	384	54.268	5.052	35.468	0.00	0.00
ATOM	5779	CG	PRO	X	384	54.345	5.160	37.644	0.00	0.00
ATOM	5780	HG2	PRO	X	384	55.117	5.039	38.404	0.00	0.00
ATOM	5781	HG3	PRO	X	384	53.519	4.449	37.653	0.00	0.00
ATOM	5782	CB	PRO	X	384	53.741	6.591	37.774	0.00	0.00
ATOM	5783	HB2	PRO	X	384	53.471	6.870	38.792	0.00	0.00
ATOM	5784	HB3	PRO	X	384	52.826	6.579	37.182	0.00	0.00
ATOM	5785	CA	PRO	X	384	54.754	7.562	37.170	0.00	0.00
ATOM	5786	HA	PRO	X	384	54.253	8.372	36.640	0.00	0.00
ATOM	5787	C	PRO	X	384	55.694	8.160	38.180	0.00	0.00
ATOM	5788	O	PRO	X	384	55.377	9.185	38.755	0.00	0.00
ATOM	5789	N	GLU	X	385	56.848	7.572	38.439	0.00	0.00
ATOM	5790	H	GLU	X	385	57.157	6.732	37.970	0.00	0.00
ATOM	5791	CA	GLU	X	385	57.707	7.906	39.572	0.00	0.00
ATOM	5792	HA	GLU	X	385	57.184	8.491	40.328	0.00	0.00
ATOM	5793	CB	GLU	X	385	58.154	6.599	40.198	0.00	0.00
ATOM	5794	HB2	GLU	X	385	58.770	5.990	39.536	0.00	0.00
ATOM	5795	HB3	GLU	X	385	58.895	6.785	40.975	0.00	0.00
ATOM	5796	CG	GLU	X	385	56.917	5.916	40.893	0.00	0.00
ATOM	5797	HG2	GLU	X	385	56.401	6.607	41.560	0.00	0.00
ATOM	5798	HG3	GLU	X	385	56.165	5.556	40.190	0.00	0.00
ATOM	5799	CD	GLU	X	385	57.348	4.731	41.768	0.00	0.00
ATOM	5800	OE1	GLU	X	385	57.851	3.715	41.277	0.00	0.00
ATOM	5801	OE2	GLU	X	385	57.105	4.731	42.985	0.00	0.00
ATOM	5802	C	GLU	X	385	58.944	8.797	39.143	0.00	0.00
ATOM	5803	O	GLU	X	385	59.867	9.024	39.965	0.00	0.00
ATOM	5804	N	ASP	X	386	59.007	9.241	37.850	0.00	0.00
ATOM	5805	H	ASP	X	386	58.244	8.953	37.254	0.00	0.00
ATOM	5806	CA	ASP	X	386	59.956	10.148	37.314	0.00	0.00
ATOM	5807	HA	ASP	X	386	60.946	9.717	37.464	0.00	0.00
ATOM	5808	CB	ASP	X	386	59.845	10.142	35.781	0.00	0.00
ATOM	5809	HB2	ASP	X	386	60.014	9.137	35.394	0.00	0.00
ATOM	5810	HB3	ASP	X	386	58.825	10.458	35.564	0.00	0.00
ATOM	5811	CG	ASP	X	386	60.766	11.157	35.127	0.00	0.00
ATOM	5812	OD1	ASP	X	386	61.898	10.783	34.816	0.00	0.00
ATOM	5813	OD2	ASP	X	386	60.356	12.297	34.870	0.00	0.00
ATOM	5814	C	ASP	X	386	59.780	11.595	37.888	0.00	0.00

ATOM	5815	O	ASP	X	386	58.685	12.124	37.882	0.00	0.00
ATOM	5816	N	PRO	X	387	60.842	12.185	38.511	0.00	0.00
ATOM	5817	CD	PRO	X	387	62.160	11.631	38.558	0.00	0.00
ATOM	5818	HD2	PRO	X	387	62.619	11.648	37.570	0.00	0.00
ATOM	5819	HD3	PRO	X	387	62.163	10.601	38.916	0.00	0.00
ATOM	5820	CG	PRO	X	387	62.956	12.479	39.629	0.00	0.00
ATOM	5821	HG2	PRO	X	387	63.997	12.586	39.324	0.00	0.00
ATOM	5822	HG3	PRO	X	387	62.956	11.942	40.578	0.00	0.00
ATOM	5823	CB	PRO	X	387	62.204	13.800	39.688	0.00	0.00
ATOM	5824	HB2	PRO	X	387	62.791	14.485	39.076	0.00	0.00
ATOM	5825	HB3	PRO	X	387	62.225	14.156	40.718	0.00	0.00
ATOM	5826	CA	PRO	X	387	60.784	13.495	39.211	0.00	0.00
ATOM	5827	HA	PRO	X	387	60.151	13.413	40.094	0.00	0.00
ATOM	5828	C	PRO	X	387	60.257	14.614	38.321	0.00	0.00
ATOM	5829	O	PRO	X	387	59.313	15.255	38.845	0.00	0.00
ATOM	5830	N	ALA	X	388	60.698	14.782	37.092	0.00	0.00
ATOM	5831	H	ALA	X	388	61.252	14.055	36.662	0.00	0.00
ATOM	5832	CA	ALA	X	388	60.228	15.940	36.300	0.00	0.00
ATOM	5833	HA	ALA	X	388	60.017	16.847	36.867	0.00	0.00
ATOM	5834	CB	ALA	X	388	61.231	16.248	35.169	0.00	0.00
ATOM	5835	HB1	ALA	X	388	61.340	15.366	34.539	0.00	0.00
ATOM	5836	HB2	ALA	X	388	60.778	17.001	34.523	0.00	0.00
ATOM	5837	HB3	ALA	X	388	62.209	16.547	35.546	0.00	0.00
ATOM	5838	C	ALA	X	388	58.855	15.728	35.718	0.00	0.00
ATOM	5839	O	ALA	X	388	58.059	16.646	35.741	0.00	0.00
ATOM	5840	N	ARG	X	389	58.466	14.443	35.451	0.00	0.00
ATOM	5841	H	ARG	X	389	59.116	13.675	35.535	0.00	0.00
ATOM	5842	CA	ARG	X	389	57.107	14.161	35.134	0.00	0.00
ATOM	5843	HA	ARG	X	389	56.757	14.816	34.336	0.00	0.00
ATOM	5844	CB	ARG	X	389	57.025	12.786	34.473	0.00	0.00
ATOM	5845	HB2	ARG	X	389	57.529	12.078	35.131	0.00	0.00
ATOM	5846	HB3	ARG	X	389	55.994	12.431	34.461	0.00	0.00
ATOM	5847	CG	ARG	X	389	57.566	12.628	33.062	0.00	0.00
ATOM	5848	HG2	ARG	X	389	56.917	13.016	32.277	0.00	0.00
ATOM	5849	HG3	ARG	X	389	58.518	13.132	32.895	0.00	0.00
ATOM	5850	CD	ARG	X	389	57.862	11.144	32.735	0.00	0.00
ATOM	5851	HD2	ARG	X	389	58.673	10.862	33.407	0.00	0.00
ATOM	5852	HD3	ARG	X	389	56.987	10.528	32.945	0.00	0.00
ATOM	5853	NE	ARG	X	389	58.174	10.829	31.337	0.00	0.00
ATOM	5854	HE	ARG	X	389	59.151	10.662	31.140	0.00	0.00
ATOM	5855	CZ	ARG	X	389	57.357	10.779	30.323	0.00	0.00
ATOM	5856	NH1	ARG	X	389	56.072	10.789	30.460	0.00	0.00
ATOM	5857	HH11	ARG	X	389	55.637	10.769	31.371	0.00	0.00
ATOM	5858	HH12	ARG	X	389	55.509	10.724	29.623	0.00	0.00
ATOM	5859	NH2	ARG	X	389	57.893	10.719	29.149	0.00	0.00
ATOM	5860	HH21	ARG	X	389	58.845	10.449	28.947	0.00	0.00
ATOM	5861	HH22	ARG	X	389	57.251	10.891	28.389	0.00	0.00
ATOM	5862	C	ARG	X	389	56.172	14.236	36.284	0.00	0.00
ATOM	5863	O	ARG	X	389	54.967	14.596	36.113	0.00	0.00
ATOM	5864	N	LEU	X	390	56.674	14.138	37.462	0.00	0.00
ATOM	5865	H	LEU	X	390	57.652	13.891	37.435	0.00	0.00
ATOM	5866	CA	LEU	X	390	55.880	14.311	38.738	0.00	0.00
ATOM	5867	HA	LEU	X	390	54.861	13.998	38.511	0.00	0.00
ATOM	5868	CB	LEU	X	390	56.536	13.696	39.980	0.00	0.00
ATOM	5869	HB2	LEU	X	390	57.595	13.956	39.955	0.00	0.00
ATOM	5870	HB3	LEU	X	390	56.053	14.176	40.831	0.00	0.00
ATOM	5871	CG	LEU	X	390	56.401	12.183	40.135	0.00	0.00
ATOM	5872	HG	LEU	X	390	56.555	11.550	39.261	0.00	0.00
ATOM	5873	CD1	LEU	X	390	57.485	11.720	41.132	0.00	0.00
ATOM	5874	HD11	LEU	X	390	57.388	10.634	41.132	0.00	0.00
ATOM	5875	HD12	LEU	X	390	58.473	12.010	40.773	0.00	0.00
ATOM	5876	HD13	LEU	X	390	57.201	12.045	42.132	0.00	0.00
ATOM	5877	CD2	LEU	X	390	55.085	11.841	40.786	0.00	0.00
ATOM	5878	HD21	LEU	X	390	55.064	12.310	41.769	0.00	0.00
ATOM	5879	HD22	LEU	X	390	54.372	12.181	40.035	0.00	0.00
ATOM	5880	HD23	LEU	X	390	54.853	10.777	40.731	0.00	0.00
ATOM	5881	C	LEU	X	390	55.715	15.785	39.046	0.00	0.00
ATOM	5882	O	LEU	X	390	54.598	16.251	39.232	0.00	0.00
ATOM	5883	N	ARG	X	391	56.753	16.521	38.843	0.00	0.00
ATOM	5884	H	ARG	X	391	57.659	16.121	38.647	0.00	0.00

ATOM	5885	CA	ARG	X	391	56.787	17.996	38.792	0.00	0.00
ATOM	5886	HA	ARG	X	391	56.660	18.349	39.816	0.00	0.00
ATOM	5887	CB	ARG	X	391	58.252	18.517	38.431	0.00	0.00
ATOM	5888	HB2	ARG	X	391	58.992	17.937	38.984	0.00	0.00
ATOM	5889	HB3	ARG	X	391	58.448	18.416	37.364	0.00	0.00
ATOM	5890	CG	ARG	X	391	58.557	19.947	38.853	0.00	0.00
ATOM	5891	HG2	ARG	X	391	57.747	20.627	38.586	0.00	0.00
ATOM	5892	HG3	ARG	X	391	58.826	19.930	39.909	0.00	0.00
ATOM	5893	CD	ARG	X	391	59.812	20.587	38.198	0.00	0.00
ATOM	5894	HD2	ARG	X	391	59.595	20.931	37.187	0.00	0.00
ATOM	5895	HD3	ARG	X	391	59.954	21.446	38.854	0.00	0.00
ATOM	5896	NE	ARG	X	391	61.043	19.763	38.265	0.00	0.00
ATOM	5897	HE	ARG	X	391	61.426	19.639	39.192	0.00	0.00
ATOM	5898	CZ	ARG	X	391	61.811	19.297	37.222	0.00	0.00
ATOM	5899	NH1	ARG	X	391	61.525	19.383	35.975	0.00	0.00
ATOM	5900	HH11	ARG	X	391	60.639	19.743	35.649	0.00	0.00
ATOM	5901	HH12	ARG	X	391	62.206	19.378	35.229	0.00	0.00
ATOM	5902	NH2	ARG	X	391	62.943	18.621	37.458	0.00	0.00
ATOM	5903	HH21	ARG	X	391	63.376	18.700	38.367	0.00	0.00
ATOM	5904	HH22	ARG	X	391	63.421	18.294	36.631	0.00	0.00
ATOM	5905	C	ARG	X	391	55.780	18.587	37.775	0.00	0.00
ATOM	5906	O	ARG	X	391	54.980	19.349	38.210	0.00	0.00
ATOM	5907	N	GLU	X	392	55.862	18.222	36.518	0.00	0.00
ATOM	5908	H	GLU	X	392	56.606	17.587	36.266	0.00	0.00
ATOM	5909	CA	GLU	X	392	54.904	18.600	35.461	0.00	0.00
ATOM	5910	HA	GLU	X	392	55.005	19.672	35.297	0.00	0.00
ATOM	5911	CB	GLU	X	392	55.171	17.956	34.118	0.00	0.00
ATOM	5912	HB2	GLU	X	392	56.246	18.042	33.961	0.00	0.00
ATOM	5913	HB3	GLU	X	392	54.985	16.883	34.172	0.00	0.00
ATOM	5914	CG	GLU	X	392	54.409	18.563	32.967	0.00	0.00
ATOM	5915	HG2	GLU	X	392	53.395	18.212	33.156	0.00	0.00
ATOM	5916	HG3	GLU	X	392	54.419	19.647	33.083	0.00	0.00
ATOM	5917	CD	GLU	X	392	54.853	18.104	31.630	0.00	0.00
ATOM	5918	OE1	GLU	X	392	54.448	17.106	31.020	0.00	0.00
ATOM	5919	OE2	GLU	X	392	55.765	18.874	31.208	0.00	0.00
ATOM	5920	C	GLU	X	392	53.426	18.486	35.988	0.00	0.00
ATOM	5921	O	GLU	X	392	52.589	19.305	35.650	0.00	0.00
ATOM	5922	N	ALA	X	393	53.062	17.448	36.761	0.00	0.00
ATOM	5923	H	ALA	X	393	53.714	16.741	37.071	0.00	0.00
ATOM	5924	CA	ALA	X	393	51.691	17.183	37.111	0.00	0.00
ATOM	5925	HA	ALA	X	393	51.002	17.264	36.271	0.00	0.00
ATOM	5926	CB	ALA	X	393	51.615	15.791	37.613	0.00	0.00
ATOM	5927	HB1	ALA	X	393	52.408	15.478	38.293	0.00	0.00
ATOM	5928	HB2	ALA	X	393	50.720	15.761	38.234	0.00	0.00
ATOM	5929	HB3	ALA	X	393	51.327	15.150	36.780	0.00	0.00
ATOM	5930	C	ALA	X	393	51.267	18.246	38.157	0.00	0.00
ATOM	5931	O	ALA	X	393	50.206	18.899	37.974	0.00	0.00
ATOM	5932	N	LEU	X	394	52.056	18.479	39.209	0.00	0.00
ATOM	5933	H	LEU	X	394	52.908	17.940	39.278	0.00	0.00
ATOM	5934	CA	LEU	X	394	51.754	19.498	40.213	0.00	0.00
ATOM	5935	HA	LEU	X	394	50.823	19.227	40.712	0.00	0.00
ATOM	5936	CB	LEU	X	394	52.776	19.413	41.324	0.00	0.00
ATOM	5937	HB2	LEU	X	394	52.880	18.396	41.703	0.00	0.00
ATOM	5938	HB3	LEU	X	394	53.772	19.564	40.909	0.00	0.00
ATOM	5939	CG	LEU	X	394	52.566	20.435	42.403	0.00	0.00
ATOM	5940	HG	LEU	X	394	52.418	21.435	41.996	0.00	0.00
ATOM	5941	CD1	LEU	X	394	51.315	20.138	43.281	0.00	0.00
ATOM	5942	HD11	LEU	X	394	50.460	20.215	42.610	0.00	0.00
ATOM	5943	HD12	LEU	X	394	51.381	19.161	43.761	0.00	0.00
ATOM	5944	HD13	LEU	X	394	51.236	20.870	44.085	0.00	0.00
ATOM	5945	CD2	LEU	X	394	53.878	20.408	43.270	0.00	0.00
ATOM	5946	HD21	LEU	X	394	54.028	19.490	43.837	0.00	0.00
ATOM	5947	HD22	LEU	X	394	54.779	20.675	42.717	0.00	0.00
ATOM	5948	HD23	LEU	X	394	53.802	21.239	43.971	0.00	0.00
ATOM	5949	C	LEU	X	394	51.679	20.951	39.657	0.00	0.00
ATOM	5950	O	LEU	X	394	50.768	21.691	39.947	0.00	0.00
ATOM	5951	N	SER	X	395	52.596	21.221	38.700	0.00	0.00
ATOM	5952	H	SER	X	395	53.211	20.453	38.472	0.00	0.00
ATOM	5953	CA	SER	X	395	52.673	22.388	37.800	0.00	0.00
ATOM	5954	HA	SER	X	395	52.787	23.273	38.425	0.00	0.00

ATOM	5955	CB	SER	X	395	53.853	22.464	36.836	0.00	0.00
ATOM	5956	HB2	SER	X	395	53.725	21.670	36.099	0.00	0.00
ATOM	5957	HB3	SER	X	395	53.871	23.403	36.283	0.00	0.00
ATOM	5958	OG	SER	X	395	55.042	22.224	37.604	0.00	0.00
ATOM	5959	HG	SER	X	395	54.999	21.346	37.991	0.00	0.00
ATOM	5960	C	SER	X	395	51.327	22.550	36.946	0.00	0.00
ATOM	5961	O	SER	X	395	50.970	23.669	36.608	0.00	0.00
ATOM	5962	N	ASP	X	396	50.615	21.522	36.568	0.00	0.00
ATOM	5963	H	ASP	X	396	50.978	20.586	36.683	0.00	0.00
ATOM	5964	CA	ASP	X	396	49.376	21.558	35.801	0.00	0.00
ATOM	5965	HA	ASP	X	396	49.503	22.425	35.152	0.00	0.00
ATOM	5966	CB	ASP	X	396	49.240	20.260	34.987	0.00	0.00
ATOM	5967	HB2	ASP	X	396	50.074	20.221	34.286	0.00	0.00
ATOM	5968	HB3	ASP	X	396	49.341	19.392	35.638	0.00	0.00
ATOM	5969	CG	ASP	X	396	47.936	20.271	34.189	0.00	0.00
ATOM	5970	OD1	ASP	X	396	47.455	21.410	33.876	0.00	0.00
ATOM	5971	OD2	ASP	X	396	47.350	19.197	33.865	0.00	0.00
ATOM	5972	C	ASP	X	396	48.185	21.802	36.758	0.00	0.00
ATOM	5973	O	ASP	X	396	47.239	22.594	36.465	0.00	0.00
ATOM	5974	N	VAL	X	397	48.315	21.270	37.997	0.00	0.00
ATOM	5975	H	VAL	X	397	49.205	20.806	38.112	0.00	0.00
ATOM	5976	CA	VAL	X	397	47.348	21.392	39.101	0.00	0.00
ATOM	5977	HA	VAL	X	397	46.331	21.104	38.838	0.00	0.00
ATOM	5978	CB	VAL	X	397	47.621	20.386	40.265	0.00	0.00
ATOM	5979	HB	VAL	X	397	48.706	20.354	40.363	0.00	0.00
ATOM	5980	CG1	VAL	X	397	47.146	20.837	41.665	0.00	0.00
ATOM	5981	HG11	VAL	X	397	47.152	20.031	42.399	0.00	0.00
ATOM	5982	HG12	VAL	X	397	47.770	21.667	41.995	0.00	0.00
ATOM	5983	HG13	VAL	X	397	46.160	21.294	41.742	0.00	0.00
ATOM	5984	CG2	VAL	X	397	47.159	18.977	39.893	0.00	0.00
ATOM	5985	HG21	VAL	X	397	47.703	18.595	39.029	0.00	0.00
ATOM	5986	HG22	VAL	X	397	47.341	18.287	40.718	0.00	0.00
ATOM	5987	HG23	VAL	X	397	46.112	18.977	39.590	0.00	0.00
ATOM	5988	C	VAL	X	397	47.368	22.775	39.710	0.00	0.00
ATOM	5989	O	VAL	X	397	46.218	23.286	39.820	0.00	0.00
ATOM	5990	N	VAL	X	398	48.475	23.338	40.069	0.00	0.00
ATOM	5991	H	VAL	X	398	49.244	22.695	39.945	0.00	0.00
ATOM	5992	CA	VAL	X	398	48.757	24.479	40.985	0.00	0.00
ATOM	5993	HA	VAL	X	398	48.167	24.372	41.895	0.00	0.00
ATOM	5994	CB	VAL	X	398	50.248	24.604	41.403	0.00	0.00
ATOM	5995	HB	VAL	X	398	50.606	23.634	41.745	0.00	0.00
ATOM	5996	CG1	VAL	X	398	51.125	24.897	40.151	0.00	0.00
ATOM	5997	HG11	VAL	X	398	50.898	25.843	39.661	0.00	0.00
ATOM	5998	HG12	VAL	X	398	52.192	24.931	40.372	0.00	0.00
ATOM	5999	HG13	VAL	X	398	50.908	24.153	39.384	0.00	0.00
ATOM	6000	CG2	VAL	X	398	50.518	25.680	42.466	0.00	0.00
ATOM	6001	HG21	VAL	X	398	51.543	25.531	42.808	0.00	0.00
ATOM	6002	HG22	VAL	X	398	50.325	26.695	42.119	0.00	0.00
ATOM	6003	HG23	VAL	X	398	49.890	25.418	43.317	0.00	0.00
ATOM	6004	C	VAL	X	398	48.149	25.838	40.614	0.00	0.00
ATOM	6005	O	VAL	X	398	47.643	26.611	41.487	0.00	0.00
ATOM	6006	N	GLY	X	399	48.088	26.210	39.372	0.00	0.00
ATOM	6007	H	GLY	X	399	48.354	25.578	38.630	0.00	0.00
ATOM	6008	CA	GLY	X	399	47.665	27.552	38.891	0.00	0.00
ATOM	6009	HA2	GLY	X	399	47.861	28.311	39.677	0.00	0.00
ATOM	6010	HA3	GLY	X	399	48.167	27.841	37.965	0.00	0.00
ATOM	6011	C	GLY	X	399	46.233	27.537	38.548	0.00	0.00
ATOM	6012	O	GLY	X	399	45.694	28.679	38.486	0.00	0.00
ATOM	6013	N	ASP	X	400	45.516	26.433	38.427	0.00	0.00
ATOM	6014	H	ASP	X	400	46.029	25.609	38.703	0.00	0.00
ATOM	6015	CA	ASP	X	400	44.129	26.358	38.054	0.00	0.00
ATOM	6016	HA	ASP	X	400	43.987	26.933	37.138	0.00	0.00
ATOM	6017	CB	ASP	X	400	43.800	24.863	37.662	0.00	0.00
ATOM	6018	HB2	ASP	X	400	44.159	24.197	38.447	0.00	0.00
ATOM	6019	HB3	ASP	X	400	42.729	24.707	37.792	0.00	0.00
ATOM	6020	CG	ASP	X	400	44.330	24.284	36.322	0.00	0.00
ATOM	6021	OD1	ASP	X	400	45.186	24.964	35.660	0.00	0.00
ATOM	6022	OD2	ASP	X	400	44.037	23.168	36.001	0.00	0.00
ATOM	6023	C	ASP	X	400	43.225	26.923	39.104	0.00	0.00
ATOM	6024	O	ASP	X	400	42.733	28.068	38.846	0.00	0.00

ATOM	6025	N	HIE	X	401	43.037	26.273	40.168	0.00	0.00
ATOM	6026	H	HIE	X	401	43.383	25.324	40.147	0.00	0.00
ATOM	6027	CA	HIE	X	401	42.049	26.583	41.181	0.00	0.00
ATOM	6028	HA	HIE	X	401	41.096	26.712	40.668	0.00	0.00
ATOM	6029	CB	HIE	X	401	41.936	25.274	42.052	0.00	0.00
ATOM	6030	HB2	HIE	X	401	41.005	25.290	42.618	0.00	0.00
ATOM	6031	HB3	HIE	X	401	41.834	24.292	41.589	0.00	0.00
ATOM	6032	CG	HIE	X	401	43.031	25.152	43.049	0.00	0.00
ATOM	6033	ND1	HIE	X	401	42.914	25.545	44.401	0.00	0.00
ATOM	6034	CE1	HIE	X	401	44.181	25.445	44.844	0.00	0.00
ATOM	6035	HE1	HIE	X	401	44.503	25.501	45.873	0.00	0.00
ATOM	6036	NE2	HIE	X	401	45.004	24.965	43.935	0.00	0.00
ATOM	6037	HE2	HIE	X	401	45.954	24.665	44.099	0.00	0.00
ATOM	6038	CD2	HIE	X	401	44.276	24.759	42.786	0.00	0.00
ATOM	6039	HD2	HIE	X	401	44.670	24.510	41.812	0.00	0.00
ATOM	6040	C	HIE	X	401	42.421	27.923	41.949	0.00	0.00
ATOM	6041	O	HIE	X	401	41.500	28.683	42.289	0.00	0.00
ATOM	6042	N	ASN	X	402	43.728	28.173	42.117	0.00	0.00
ATOM	6043	H	ASN	X	402	44.417	27.452	41.958	0.00	0.00
ATOM	6044	CA	ASN	X	402	44.260	29.334	42.813	0.00	0.00
ATOM	6045	HA	ASN	X	402	43.739	29.556	43.745	0.00	0.00
ATOM	6046	CB	ASN	X	402	45.728	29.077	43.009	0.00	0.00
ATOM	6047	HB2	ASN	X	402	46.166	28.515	42.184	0.00	0.00
ATOM	6048	HB3	ASN	X	402	46.186	30.066	43.017	0.00	0.00
ATOM	6049	CG	ASN	X	402	46.068	28.426	44.319	0.00	0.00
ATOM	6050	OD1	ASN	X	402	45.527	28.820	45.386	0.00	0.00
ATOM	6051	ND2	ASN	X	402	46.802	27.338	44.284	0.00	0.00
ATOM	6052	HD21	ASN	X	402	46.892	26.756	45.104	0.00	0.00
ATOM	6053	HD22	ASN	X	402	47.043	26.887	43.413	0.00	0.00
ATOM	6054	C	ASN	X	402	44.007	30.620	41.847	0.00	0.00
ATOM	6055	O	ASN	X	402	43.648	31.636	42.450	0.00	0.00
ATOM	6056	N	VAL	X	403	44.130	30.594	40.494	0.00	0.00
ATOM	6057	H	VAL	X	403	44.452	29.718	40.106	0.00	0.00
ATOM	6058	CA	VAL	X	403	43.966	31.843	39.645	0.00	0.00
ATOM	6059	HA	VAL	X	403	43.241	32.475	40.158	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.275	32.607	39.425	0.00	0.00
ATOM	6061	HB	VAL	X	403	45.080	33.393	38.695	0.00	0.00
ATOM	6062	CG1	VAL	X	403	45.537	33.346	40.780	0.00	0.00
ATOM	6063	HG11	VAL	X	403	44.628	33.849	41.110	0.00	0.00
ATOM	6064	HG12	VAL	X	403	45.846	32.621	41.533	0.00	0.00
ATOM	6065	HG13	VAL	X	403	46.359	34.061	40.742	0.00	0.00
ATOM	6066	CG2	VAL	X	403	46.516	31.718	39.104	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.430	31.324	38.092	0.00	0.00
ATOM	6068	HG22	VAL	X	403	47.369	32.380	39.250	0.00	0.00
ATOM	6069	HG23	VAL	X	403	46.692	30.833	39.716	0.00	0.00
ATOM	6070	C	VAL	X	403	43.309	31.653	38.266	0.00	0.00
ATOM	6071	O	VAL	X	403	42.346	32.383	37.965	0.00	0.00
ATOM	6072	N	VAL	X	404	43.788	30.661	37.409	0.00	0.00
ATOM	6073	H	VAL	X	404	44.551	30.059	37.682	0.00	0.00
ATOM	6074	CA	VAL	X	404	43.364	30.575	35.966	0.00	0.00
ATOM	6075	HA	VAL	X	404	43.487	31.572	35.545	0.00	0.00
ATOM	6076	CB	VAL	X	404	44.209	29.606	35.030	0.00	0.00
ATOM	6077	HB	VAL	X	404	44.183	28.581	35.400	0.00	0.00
ATOM	6078	CG1	VAL	X	404	43.720	29.649	33.602	0.00	0.00
ATOM	6079	HG11	VAL	X	404	42.643	29.483	33.606	0.00	0.00
ATOM	6080	HG12	VAL	X	404	43.966	30.600	33.130	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.379	28.935	33.107	0.00	0.00
ATOM	6082	CG2	VAL	X	404	45.679	29.979	35.044	0.00	0.00
ATOM	6083	HG21	VAL	X	404	46.216	29.150	34.584	0.00	0.00
ATOM	6084	HG22	VAL	X	404	45.969	30.778	34.362	0.00	0.00
ATOM	6085	HG23	VAL	X	404	45.980	30.061	36.089	0.00	0.00
ATOM	6086	C	VAL	X	404	41.792	30.268	35.951	0.00	0.00
ATOM	6087	O	VAL	X	404	41.173	30.759	35.051	0.00	0.00
ATOM	6088	N	CYX	X	405	41.260	29.408	36.823	0.00	0.00
ATOM	6089	H	CYX	X	405	41.903	28.979	37.474	0.00	0.00
ATOM	6090	CA	CYX	X	405	39.806	29.131	36.822	0.00	0.00
ATOM	6091	HA	CYX	X	405	39.485	29.004	35.788	0.00	0.00
ATOM	6092	CB	CYX	X	405	39.487	27.829	37.595	0.00	0.00
ATOM	6093	HB2	CYX	X	405	40.001	27.813	38.556	0.00	0.00
ATOM	6094	HB3	CYX	X	405	38.404	27.814	37.715	0.00	0.00

ATOM	6095	SG	CYX	X	405	40.081	26.414	36.691	0.00	0.00
ATOM	6096	C	CYX	X	405	39.004	30.336	37.376	0.00	0.00
ATOM	6097	O	CYX	X	405	38.062	30.771	36.752	0.00	0.00
ATOM	6098	N	PRO	X	406	39.466	31.006	38.497	0.00	0.00
ATOM	6099	CD	PRO	X	406	40.309	30.479	39.571	0.00	0.00
ATOM	6100	HD2	PRO	X	406	41.363	30.489	39.292	0.00	0.00
ATOM	6101	HD3	PRO	X	406	40.009	29.478	39.881	0.00	0.00
ATOM	6102	CG	PRO	X	406	40.181	31.391	40.775	0.00	0.00
ATOM	6103	HG2	PRO	X	406	41.159	31.398	41.257	0.00	0.00
ATOM	6104	HG3	PRO	X	406	39.369	30.911	41.322	0.00	0.00
ATOM	6105	CB	PRO	X	406	39.783	32.713	40.119	0.00	0.00
ATOM	6106	HB2	PRO	X	406	40.691	33.187	39.745	0.00	0.00
ATOM	6107	HB3	PRO	X	406	39.251	33.330	40.843	0.00	0.00
ATOM	6108	CA	PRO	X	406	38.889	32.293	38.961	0.00	0.00
ATOM	6109	HA	PRO	X	406	37.892	32.098	39.354	0.00	0.00
ATOM	6110	C	PRO	X	406	38.779	33.454	37.900	0.00	0.00
ATOM	6111	O	PRO	X	406	37.735	34.098	37.927	0.00	0.00
ATOM	6112	N	VAL	X	407	39.726	33.563	36.980	0.00	0.00
ATOM	6113	H	VAL	X	407	40.651	33.263	37.252	0.00	0.00
ATOM	6114	CA	VAL	X	407	39.609	34.447	35.761	0.00	0.00
ATOM	6115	HA	VAL	X	407	39.391	35.422	36.197	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.918	34.545	34.930	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.337	33.576	34.659	0.00	0.00
ATOM	6118	CG1	VAL	X	407	40.747	35.101	33.568	0.00	0.00
ATOM	6119	HG11	VAL	X	407	40.253	36.072	33.598	0.00	0.00
ATOM	6120	HG12	VAL	X	407	41.700	35.180	33.046	0.00	0.00
ATOM	6121	HG13	VAL	X	407	40.046	34.543	32.947	0.00	0.00
ATOM	6122	CG2	VAL	X	407	41.850	35.493	35.770	0.00	0.00
ATOM	6123	HG21	VAL	X	407	42.126	35.030	36.717	0.00	0.00
ATOM	6124	HG22	VAL	X	407	42.808	35.733	35.308	0.00	0.00
ATOM	6125	HG23	VAL	X	407	41.423	36.477	35.968	0.00	0.00
ATOM	6126	C	VAL	X	407	38.451	34.051	34.948	0.00	0.00
ATOM	6127	O	VAL	X	407	37.686	34.944	34.490	0.00	0.00
ATOM	6128	N	ALA	X	408	38.318	32.793	34.553	0.00	0.00
ATOM	6129	H	ALA	X	408	39.033	32.118	34.782	0.00	0.00
ATOM	6130	CA	ALA	X	408	37.167	32.347	33.704	0.00	0.00
ATOM	6131	HA	ALA	X	408	37.105	32.907	32.771	0.00	0.00
ATOM	6132	CB	ALA	X	408	37.451	30.876	33.255	0.00	0.00
ATOM	6133	HB1	ALA	X	408	38.251	30.823	32.517	0.00	0.00
ATOM	6134	HB2	ALA	X	408	37.566	30.199	34.101	0.00	0.00
ATOM	6135	HB3	ALA	X	408	36.524	30.526	32.802	0.00	0.00
ATOM	6136	C	ALA	X	408	35.815	32.535	34.402	0.00	0.00
ATOM	6137	O	ALA	X	408	34.785	32.859	33.804	0.00	0.00
ATOM	6138	N	GLN	X	409	35.797	32.236	35.711	0.00	0.00
ATOM	6139	H	GLN	X	409	36.724	32.066	36.074	0.00	0.00
ATOM	6140	CA	GLN	X	409	34.638	32.349	36.607	0.00	0.00
ATOM	6141	HA	GLN	X	409	33.735	32.022	36.091	0.00	0.00
ATOM	6142	CB	GLN	X	409	34.875	31.497	37.846	0.00	0.00
ATOM	6143	HB2	GLN	X	409	35.864	31.661	38.272	0.00	0.00
ATOM	6144	HB3	GLN	X	409	34.099	31.737	38.573	0.00	0.00
ATOM	6145	CG	GLN	X	409	34.759	29.968	37.685	0.00	0.00
ATOM	6146	HG2	GLN	X	409	33.883	29.797	37.060	0.00	0.00
ATOM	6147	HG3	GLN	X	409	35.640	29.574	37.179	0.00	0.00
ATOM	6148	CD	GLN	X	409	34.644	29.257	39.058	0.00	0.00
ATOM	6149	OE1	GLN	X	409	34.557	29.887	40.055	0.00	0.00
ATOM	6150	NE2	GLN	X	409	34.683	27.970	39.166	0.00	0.00
ATOM	6151	HE21	GLN	X	409	34.505	27.553	40.069	0.00	0.00
ATOM	6152	HE22	GLN	X	409	34.581	27.366	38.364	0.00	0.00
ATOM	6153	C	GLN	X	409	34.348	33.748	36.952	0.00	0.00
ATOM	6154	O	GLN	X	409	33.230	34.025	37.465	0.00	0.00
ATOM	6155	N	LEU	X	410	35.275	34.658	36.617	0.00	0.00
ATOM	6156	H	LEU	X	410	36.132	34.369	36.167	0.00	0.00
ATOM	6157	CA	LEU	X	410	34.973	36.054	36.585	0.00	0.00
ATOM	6158	HA	LEU	X	410	34.282	36.370	37.367	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.324	36.824	36.877	0.00	0.00
ATOM	6160	HB2	LEU	X	410	36.618	36.495	37.873	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.060	36.611	36.101	0.00	0.00
ATOM	6162	CG	LEU	X	410	36.334	38.341	36.852	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.924	38.541	35.862	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.412	38.959	37.942	0.00	0.00

ATOM	6165	HD11	LEU	X	410	35.765	38.750	38.951	0.00	0.00
ATOM	6166	HD12	LEU	X	410	35.295	40.039	37.849	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.398	38.586	37.796	0.00	0.00
ATOM	6168	CD2	LEU	X	410	37.727	38.966	37.046	0.00	0.00
ATOM	6169	HD21	LEU	X	410	38.062	38.634	38.029	0.00	0.00
ATOM	6170	HD22	LEU	X	410	38.422	38.550	36.317	0.00	0.00
ATOM	6171	HD23	LEU	X	410	37.652	40.044	36.910	0.00	0.00
ATOM	6172	C	LEU	X	410	34.379	36.453	35.233	0.00	0.00
ATOM	6173	O	LEU	X	410	33.323	37.121	35.156	0.00	0.00
ATOM	6174	N	ALA	X	411	35.132	36.167	34.113	0.00	0.00
ATOM	6175	H	ALA	X	411	35.989	35.666	34.298	0.00	0.00
ATOM	6176	CA	ALA	X	411	34.785	36.502	32.785	0.00	0.00
ATOM	6177	HA	ALA	X	411	34.938	37.561	32.576	0.00	0.00
ATOM	6178	CB	ALA	X	411	35.872	35.797	31.931	0.00	0.00
ATOM	6179	HB1	ALA	X	411	35.711	34.719	31.901	0.00	0.00
ATOM	6180	HB2	ALA	X	411	35.753	36.183	30.919	0.00	0.00
ATOM	6181	HB3	ALA	X	411	36.885	35.895	32.323	0.00	0.00
ATOM	6182	C	ALA	X	411	33.365	36.068	32.410	0.00	0.00
ATOM	6183	O	ALA	X	411	32.527	36.865	32.073	0.00	0.00
ATOM	6184	N	GLY	X	412	33.106	34.762	32.512	0.00	0.00
ATOM	6185	H	GLY	X	412	33.808	34.111	32.832	0.00	0.00
ATOM	6186	CA	GLY	X	412	31.865	34.083	32.104	0.00	0.00
ATOM	6187	HA2	GLY	X	412	31.812	33.964	31.048	0.00	0.00
ATOM	6188	HA3	GLY	X	412	31.805	33.066	32.560	0.00	0.00
ATOM	6189	C	GLY	X	412	30.698	34.773	32.717	0.00	0.00
ATOM	6190	O	GLY	X	412	29.711	35.055	32.007	0.00	0.00
ATOM	6191	N	ARG	X	413	30.754	35.063	34.025	0.00	0.00
ATOM	6192	H	ARG	X	413	31.619	34.870	34.510	0.00	0.00
ATOM	6193	CA	ARG	X	413	29.782	35.795	34.913	0.00	0.00
ATOM	6194	HA	ARG	X	413	28.884	35.205	34.729	0.00	0.00
ATOM	6195	CB	ARG	X	413	30.106	35.616	36.389	0.00	0.00
ATOM	6196	HB2	ARG	X	413	31.132	35.845	36.676	0.00	0.00
ATOM	6197	HB3	ARG	X	413	29.444	36.322	36.889	0.00	0.00
ATOM	6198	CG	ARG	X	413	29.806	34.211	36.894	0.00	0.00
ATOM	6199	HG2	ARG	X	413	28.902	33.825	36.423	0.00	0.00
ATOM	6200	HG3	ARG	X	413	30.612	33.519	36.650	0.00	0.00
ATOM	6201	CD	ARG	X	413	29.615	34.183	38.418	0.00	0.00
ATOM	6202	HD2	ARG	X	413	30.561	34.346	38.934	0.00	0.00
ATOM	6203	HD3	ARG	X	413	28.989	35.041	38.666	0.00	0.00
ATOM	6204	NE	ARG	X	413	28.982	32.907	38.913	0.00	0.00
ATOM	6205	HE	ARG	X	413	28.268	32.465	38.351	0.00	0.00
ATOM	6206	CZ	ARG	X	413	29.179	32.287	40.093	0.00	0.00
ATOM	6207	NH1	ARG	X	413	30.226	32.571	40.805	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.010	33.104	40.457	0.00	0.00
ATOM	6209	HH12	ARG	X	413	30.365	32.107	41.692	0.00	0.00
ATOM	6210	NH2	ARG	X	413	28.299	31.479	40.656	0.00	0.00
ATOM	6211	HH21	ARG	X	413	27.414	31.227	40.239	0.00	0.00
ATOM	6212	HH22	ARG	X	413	28.672	31.059	41.495	0.00	0.00
ATOM	6213	C	ARG	X	413	29.525	37.189	34.417	0.00	0.00
ATOM	6214	O	ARG	X	413	28.318	37.535	34.160	0.00	0.00
ATOM	6215	N	LEU	X	414	30.594	37.960	34.266	0.00	0.00
ATOM	6216	H	LEU	X	414	31.494	37.551	34.473	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.599	39.372	33.829	0.00	0.00
ATOM	6218	HA	LEU	X	414	30.000	40.017	34.472	0.00	0.00
ATOM	6219	CB	LEU	X	414	31.988	40.053	33.856	0.00	0.00
ATOM	6220	HB2	LEU	X	414	32.630	39.596	33.102	0.00	0.00
ATOM	6221	HB3	LEU	X	414	31.936	41.103	33.570	0.00	0.00
ATOM	6222	CG	LEU	X	414	32.584	40.233	35.256	0.00	0.00
ATOM	6223	HG	LEU	X	414	32.809	39.295	35.763	0.00	0.00
ATOM	6224	CD1	LEU	X	414	33.937	40.976	35.073	0.00	0.00
ATOM	6225	HD11	LEU	X	414	34.382	41.246	36.031	0.00	0.00
ATOM	6226	HD12	LEU	X	414	34.633	40.448	34.422	0.00	0.00
ATOM	6227	HD13	LEU	X	414	33.764	41.972	34.664	0.00	0.00
ATOM	6228	CD2	LEU	X	414	31.723	41.004	36.173	0.00	0.00
ATOM	6229	HD21	LEU	X	414	32.350	41.152	37.052	0.00	0.00
ATOM	6230	HD22	LEU	X	414	31.451	41.973	35.757	0.00	0.00
ATOM	6231	HD23	LEU	X	414	30.787	40.560	36.515	0.00	0.00
ATOM	6232	C	LEU	X	414	29.962	39.404	32.421	0.00	0.00
ATOM	6233	O	LEU	X	414	29.134	40.274	32.170	0.00	0.00
ATOM	6234	N	ALA	X	415	30.298	38.445	31.524	0.00	0.00

ATOM	6235	H	ALA	X	415	30.956	37.827	31.978	0.00	0.00
ATOM	6236	CA	ALA	X	415	30.002	38.398	30.080	0.00	0.00
ATOM	6237	HA	ALA	X	415	30.171	39.413	29.721	0.00	0.00
ATOM	6238	CB	ALA	X	415	30.946	37.363	29.458	0.00	0.00
ATOM	6239	HB1	ALA	X	415	30.872	37.253	28.376	0.00	0.00
ATOM	6240	HB2	ALA	X	415	31.956	37.761	29.553	0.00	0.00
ATOM	6241	HB3	ALA	X	415	30.727	36.370	29.851	0.00	0.00
ATOM	6242	C	ALA	X	415	28.496	38.160	29.938	0.00	0.00
ATOM	6243	O	ALA	X	415	27.805	38.963	29.308	0.00	0.00
ATOM	6244	N	ALA	X	416	28.018	37.080	30.606	0.00	0.00
ATOM	6245	H	ALA	X	416	28.669	36.519	31.137	0.00	0.00
ATOM	6246	CA	ALA	X	416	26.599	36.759	30.681	0.00	0.00
ATOM	6247	HA	ALA	X	416	26.202	36.836	29.668	0.00	0.00
ATOM	6248	CB	ALA	X	416	26.574	35.316	31.146	0.00	0.00
ATOM	6249	HB1	ALA	X	416	27.013	34.621	30.430	0.00	0.00
ATOM	6250	HB2	ALA	X	416	26.990	35.219	32.149	0.00	0.00
ATOM	6251	HB3	ALA	X	416	25.567	34.960	31.366	0.00	0.00
ATOM	6252	C	ALA	X	416	25.695	37.742	31.496	0.00	0.00
ATOM	6253	O	ALA	X	416	24.492	37.669	31.395	0.00	0.00
ATOM	6254	N	GLN	X	417	26.293	38.567	32.319	0.00	0.00
ATOM	6255	H	GLN	X	417	27.297	38.586	32.425	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.521	39.630	33.006	0.00	0.00
ATOM	6257	HA	GLN	X	417	24.471	39.352	32.915	0.00	0.00
ATOM	6258	CB	GLN	X	417	25.835	39.660	34.498	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.900	39.866	34.607	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.184	40.455	34.862	0.00	0.00
ATOM	6261	CG	GLN	X	417	25.499	38.464	35.309	0.00	0.00
ATOM	6262	HG2	GLN	X	417	24.456	38.558	35.610	0.00	0.00
ATOM	6263	HG3	GLN	X	417	25.619	37.563	34.707	0.00	0.00
ATOM	6264	CD	GLN	X	417	26.262	38.249	36.571	0.00	0.00
ATOM	6265	OE1	GLN	X	417	26.954	37.268	36.819	0.00	0.00
ATOM	6266	NE2	GLN	X	417	26.287	39.204	37.496	0.00	0.00
ATOM	6267	HE21	GLN	X	417	26.895	39.102	38.296	0.00	0.00
ATOM	6268	HE22	GLN	X	417	25.673	40.005	37.460	0.00	0.00
ATOM	6269	C	GLN	X	417	25.559	41.048	32.283	0.00	0.00
ATOM	6270	O	GLN	X	417	25.022	41.987	32.819	0.00	0.00
ATOM	6271	N	GLY	X	418	26.313	41.295	31.196	0.00	0.00
ATOM	6272	H	GLY	X	418	26.858	40.515	30.858	0.00	0.00
ATOM	6273	CA	GLY	X	418	26.311	42.559	30.397	0.00	0.00
ATOM	6274	HA2	GLY	X	418	25.888	42.248	29.422	0.00	0.00
ATOM	6275	HA3	GLY	X	418	25.625	43.330	30.844	0.00	0.00
ATOM	6276	C	GLY	X	418	27.640	43.296	30.218	0.00	0.00
ATOM	6277	O	GLY	X	418	27.657	44.291	29.526	0.00	0.00
ATOM	6278	N	ALA	X	419	28.717	42.783	30.842	0.00	0.00
ATOM	6279	H	ALA	X	419	28.681	41.887	31.306	0.00	0.00
ATOM	6280	CA	ALA	X	419	30.088	43.348	30.643	0.00	0.00
ATOM	6281	HA	ALA	X	419	29.983	44.424	30.504	0.00	0.00
ATOM	6282	CB	ALA	X	419	30.985	42.957	31.881	0.00	0.00
ATOM	6283	HB1	ALA	X	419	31.887	43.568	31.901	0.00	0.00
ATOM	6284	HB2	ALA	X	419	30.383	43.099	32.779	0.00	0.00
ATOM	6285	HB3	ALA	X	419	31.405	41.956	31.777	0.00	0.00
ATOM	6286	C	ALA	X	419	30.658	42.879	29.246	0.00	0.00
ATOM	6287	O	ALA	X	419	30.579	41.698	28.870	0.00	0.00
ATOM	6288	N	ARG	X	420	31.330	43.813	28.602	0.00	0.00
ATOM	6289	H	ARG	X	420	31.340	44.753	28.970	0.00	0.00
ATOM	6290	CA	ARG	X	420	32.295	43.585	27.508	0.00	0.00
ATOM	6291	HA	ARG	X	420	31.829	42.918	26.782	0.00	0.00
ATOM	6292	CB	ARG	X	420	32.452	44.954	26.786	0.00	0.00
ATOM	6293	HB2	ARG	X	420	31.451	45.353	26.616	0.00	0.00
ATOM	6294	HB3	ARG	X	420	33.072	45.621	27.385	0.00	0.00
ATOM	6295	CG	ARG	X	420	33.083	44.873	25.440	0.00	0.00
ATOM	6296	HG2	ARG	X	420	33.980	44.259	25.511	0.00	0.00
ATOM	6297	HG3	ARG	X	420	32.357	44.340	24.826	0.00	0.00
ATOM	6298	CD	ARG	X	420	33.302	46.323	24.915	0.00	0.00
ATOM	6299	HD2	ARG	X	420	32.387	46.886	25.098	0.00	0.00
ATOM	6300	HD3	ARG	X	420	34.054	46.902	25.451	0.00	0.00
ATOM	6301	NE	ARG	X	420	33.540	46.343	23.500	0.00	0.00
ATOM	6302	HE	ARG	X	420	34.498	46.217	23.206	0.00	0.00
ATOM	6303	CZ	ARG	X	420	32.692	46.712	22.554	0.00	0.00
ATOM	6304	NH1	ARG	X	420	31.407	46.885	22.689	0.00	0.00

ATOM	6305	HH11	ARG	X	420	30.915	46.635	23.534	0.00	0.00
ATOM	6306	HH12	ARG	X	420	30.808	47.061	21.895	0.00	0.00
ATOM	6307	NH2	ARG	X	420	33.232	47.043	21.357	0.00	0.00
ATOM	6308	HH21	ARG	X	420	34.194	47.350	21.317	0.00	0.00
ATOM	6309	HH22	ARG	X	420	32.595	47.328	20.627	0.00	0.00
ATOM	6310	C	ARG	X	420	33.590	43.086	28.064	0.00	0.00
ATOM	6311	O	ARG	X	420	34.324	43.726	28.856	0.00	0.00
ATOM	6312	N	VAL	X	421	33.920	41.887	27.722	0.00	0.00
ATOM	6313	H	VAL	X	421	33.309	41.327	27.144	0.00	0.00
ATOM	6314	CA	VAL	X	421	35.049	41.132	28.332	0.00	0.00
ATOM	6315	HA	VAL	X	421	35.414	41.789	29.121	0.00	0.00
ATOM	6316	CB	VAL	X	421	34.550	39.816	28.989	0.00	0.00
ATOM	6317	HB	VAL	X	421	33.981	39.140	28.351	0.00	0.00
ATOM	6318	CG1	VAL	X	421	35.710	39.217	29.795	0.00	0.00
ATOM	6319	HG11	VAL	X	421	36.123	39.983	30.451	0.00	0.00
ATOM	6320	HG12	VAL	X	421	35.491	38.297	30.338	0.00	0.00
ATOM	6321	HG13	VAL	X	421	36.446	38.814	29.100	0.00	0.00
ATOM	6322	CG2	VAL	X	421	33.444	40.171	30.071	0.00	0.00
ATOM	6323	HG21	VAL	X	421	33.181	39.390	30.784	0.00	0.00
ATOM	6324	HG22	VAL	X	421	33.834	41.011	30.646	0.00	0.00
ATOM	6325	HG23	VAL	X	421	32.531	40.547	29.609	0.00	0.00
ATOM	6326	C	VAL	X	421	36.155	41.011	27.252	0.00	0.00
ATOM	6327	O	VAL	X	421	35.819	40.583	26.130	0.00	0.00
ATOM	6328	N	TYR	X	422	37.452	41.109	27.577	0.00	0.00
ATOM	6329	H	TYR	X	422	37.676	41.435	28.506	0.00	0.00
ATOM	6330	CA	TYR	X	422	38.642	40.694	26.812	0.00	0.00
ATOM	6331	HA	TYR	X	422	38.415	40.069	25.949	0.00	0.00
ATOM	6332	CB	TYR	X	422	39.384	41.905	26.273	0.00	0.00
ATOM	6333	HB2	TYR	X	422	39.715	42.475	27.142	0.00	0.00
ATOM	6334	HB3	TYR	X	422	40.222	41.500	25.706	0.00	0.00
ATOM	6335	CG	TYR	X	422	38.529	42.720	25.291	0.00	0.00
ATOM	6336	CD1	TYR	X	422	38.465	42.328	23.944	0.00	0.00
ATOM	6337	HD1	TYR	X	422	39.040	41.473	23.618	0.00	0.00
ATOM	6338	CE1	TYR	X	422	37.584	42.969	23.073	0.00	0.00
ATOM	6339	HE1	TYR	X	422	37.514	42.618	22.055	0.00	0.00
ATOM	6340	CZ	TYR	X	422	36.797	44.067	23.484	0.00	0.00
ATOM	6341	OH	TYR	X	422	36.023	44.697	22.532	0.00	0.00
ATOM	6342	HH	TYR	X	422	35.922	44.169	21.736	0.00	0.00
ATOM	6343	CE2	TYR	X	422	36.905	44.473	24.809	0.00	0.00
ATOM	6344	HE2	TYR	X	422	36.380	45.356	25.143	0.00	0.00
ATOM	6345	CD2	TYR	X	422	37.794	43.863	25.742	0.00	0.00
ATOM	6346	HD2	TYR	X	422	37.854	44.178	26.773	0.00	0.00
ATOM	6347	C	TYR	X	422	39.585	39.853	27.732	0.00	0.00
ATOM	6348	O	TYR	X	422	40.028	40.306	28.785	0.00	0.00
ATOM	6349	N	ALA	X	423	39.885	38.607	27.345	0.00	0.00
ATOM	6350	H	ALA	X	423	39.461	38.207	26.521	0.00	0.00
ATOM	6351	CA	ALA	X	423	40.755	37.717	28.168	0.00	0.00
ATOM	6352	HA	ALA	X	423	41.055	38.139	29.127	0.00	0.00
ATOM	6353	CB	ALA	X	423	39.856	36.599	28.468	0.00	0.00
ATOM	6354	HB1	ALA	X	423	39.543	36.267	27.478	0.00	0.00
ATOM	6355	HB2	ALA	X	423	40.378	35.888	29.108	0.00	0.00
ATOM	6356	HB3	ALA	X	423	38.916	36.918	28.917	0.00	0.00
ATOM	6357	C	ALA	X	423	42.103	37.315	27.492	0.00	0.00
ATOM	6358	O	ALA	X	423	42.138	36.995	26.280	0.00	0.00
ATOM	6359	N	TYR	X	424	43.265	37.312	28.223	0.00	0.00
ATOM	6360	H	TYR	X	424	43.249	37.797	29.108	0.00	0.00
ATOM	6361	CA	TYR	X	424	44.538	36.857	27.760	0.00	0.00
ATOM	6362	HA	TYR	X	424	44.397	36.404	26.778	0.00	0.00
ATOM	6363	CB	TYR	X	424	45.430	38.121	27.511	0.00	0.00
ATOM	6364	HB2	TYR	X	424	46.296	37.849	26.908	0.00	0.00
ATOM	6365	HB3	TYR	X	424	44.953	38.896	26.910	0.00	0.00
ATOM	6366	CG	TYR	X	424	45.930	38.821	28.757	0.00	0.00
ATOM	6367	CD1	TYR	X	424	47.163	38.390	29.332	0.00	0.00
ATOM	6368	HD1	TYR	X	424	47.821	37.676	28.859	0.00	0.00
ATOM	6369	CE1	TYR	X	424	47.682	38.912	30.537	0.00	0.00
ATOM	6370	HE1	TYR	X	424	48.528	38.525	31.083	0.00	0.00
ATOM	6371	CZ	TYR	X	424	46.842	39.820	31.134	0.00	0.00
ATOM	6372	OH	TYR	X	424	47.237	40.267	32.385	0.00	0.00
ATOM	6373	HH	TYR	X	424	48.066	39.919	32.724	0.00	0.00
ATOM	6374	CE2	TYR	X	424	45.642	40.377	30.613	0.00	0.00

ATOM	6375	HE2	TYR	X	424	45.041	41.072	31.180	0.00	0.00
ATOM	6376	CD2	TYR	X	424	45.193	39.821	29.418	0.00	0.00
ATOM	6377	HD2	TYR	X	424	44.205	40.094	29.076	0.00	0.00
ATOM	6378	C	TYR	X	424	45.315	35.863	28.637	0.00	0.00
ATOM	6379	O	TYR	X	424	45.319	35.902	29.869	0.00	0.00
ATOM	6380	N	VAL	X	425	46.035	34.993	27.932	0.00	0.00
ATOM	6381	H	VAL	X	425	45.834	35.006	26.942	0.00	0.00
ATOM	6382	CA	VAL	X	425	47.270	34.256	28.311	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.253	34.331	29.399	0.00	0.00
ATOM	6384	CB	VAL	X	425	47.208	32.769	28.013	0.00	0.00
ATOM	6385	HB	VAL	X	425	47.166	32.595	26.938	0.00	0.00
ATOM	6386	CG1	VAL	X	425	48.483	32.120	28.529	0.00	0.00
ATOM	6387	HG11	VAL	X	425	49.226	32.390	27.779	0.00	0.00
ATOM	6388	HG12	VAL	X	425	48.749	32.602	29.470	0.00	0.00
ATOM	6389	HG13	VAL	X	425	48.443	31.050	28.733	0.00	0.00
ATOM	6390	CG2	VAL	X	425	46.042	32.058	28.675	0.00	0.00
ATOM	6391	HG21	VAL	X	425	45.169	32.145	28.028	0.00	0.00
ATOM	6392	HG22	VAL	X	425	46.225	31.000	28.864	0.00	0.00
ATOM	6393	HG23	VAL	X	425	45.641	32.545	29.563	0.00	0.00
ATOM	6394	C	VAL	X	425	48.511	35.029	27.818	0.00	0.00
ATOM	6395	O	VAL	X	425	48.359	35.420	26.662	0.00	0.00
ATOM	6396	N	PHE	X	426	49.629	35.126	28.568	0.00	0.00
ATOM	6397	H	PHE	X	426	49.598	34.624	29.444	0.00	0.00
ATOM	6398	CA	PHE	X	426	50.908	35.752	28.235	0.00	0.00
ATOM	6399	HA	PHE	X	426	50.808	36.140	27.221	0.00	0.00
ATOM	6400	CB	PHE	X	426	51.272	36.919	29.180	0.00	0.00
ATOM	6401	HB2	PHE	X	426	50.485	37.662	29.054	0.00	0.00
ATOM	6402	HB3	PHE	X	426	51.254	36.624	30.229	0.00	0.00
ATOM	6403	CG	PHE	X	426	52.647	37.593	28.883	0.00	0.00
ATOM	6404	CD1	PHE	X	426	52.575	38.743	28.098	0.00	0.00
ATOM	6405	HD1	PHE	X	426	51.707	39.084	27.554	0.00	0.00
ATOM	6406	CE1	PHE	X	426	53.791	39.453	27.950	0.00	0.00
ATOM	6407	HE1	PHE	X	426	53.757	40.306	27.289	0.00	0.00
ATOM	6408	CZ	PHE	X	426	55.024	39.036	28.439	0.00	0.00
ATOM	6409	HZ	PHE	X	426	55.952	39.512	28.161	0.00	0.00
ATOM	6410	CE2	PHE	X	426	55.082	37.811	29.160	0.00	0.00
ATOM	6411	HE2	PHE	X	426	56.013	37.590	29.662	0.00	0.00
ATOM	6412	CD2	PHE	X	426	53.900	37.089	29.444	0.00	0.00
ATOM	6413	HD2	PHE	X	426	53.876	36.282	30.161	0.00	0.00
ATOM	6414	C	PHE	X	426	52.010	34.596	28.227	0.00	0.00
ATOM	6415	O	PHE	X	426	52.399	34.003	29.253	0.00	0.00
ATOM	6416	N	GLU	X	427	52.523	34.275	27.033	0.00	0.00
ATOM	6417	H	GLU	X	427	52.124	34.713	26.214	0.00	0.00
ATOM	6418	CA	GLU	X	427	53.364	33.158	26.789	0.00	0.00
ATOM	6419	HA	GLU	X	427	53.162	32.524	27.652	0.00	0.00
ATOM	6420	CB	GLU	X	427	52.837	32.552	25.518	0.00	0.00
ATOM	6421	HB2	GLU	X	427	52.694	33.201	24.654	0.00	0.00
ATOM	6422	HB3	GLU	X	427	53.564	31.782	25.261	0.00	0.00
ATOM	6423	CG	GLU	X	427	51.486	31.864	25.853	0.00	0.00
ATOM	6424	HG2	GLU	X	427	51.607	31.402	26.833	0.00	0.00
ATOM	6425	HG3	GLU	X	427	50.687	32.605	25.840	0.00	0.00
ATOM	6426	CD	GLU	X	427	51.127	30.674	24.945	0.00	0.00
ATOM	6427	OE1	GLU	X	427	51.201	30.725	23.705	0.00	0.00
ATOM	6428	OE2	GLU	X	427	50.609	29.691	25.532	0.00	0.00
ATOM	6429	C	GLU	X	427	54.875	33.488	26.615	0.00	0.00
ATOM	6430	O	GLU	X	427	55.689	32.613	26.574	0.00	0.00
ATOM	6431	N	HIE	X	428	55.138	34.787	26.487	0.00	0.00
ATOM	6432	H	HIE	X	428	54.376	35.439	26.372	0.00	0.00
ATOM	6433	CA	HIE	X	428	56.526	35.151	26.108	0.00	0.00
ATOM	6434	HA	HIE	X	428	56.794	34.491	25.283	0.00	0.00
ATOM	6435	CB	HIE	X	428	56.570	36.544	25.592	0.00	0.00
ATOM	6436	HB2	HIE	X	428	55.902	36.520	24.732	0.00	0.00
ATOM	6437	HB3	HIE	X	428	56.168	37.255	26.315	0.00	0.00
ATOM	6438	CG	HIE	X	428	57.922	36.988	25.262	0.00	0.00
ATOM	6439	ND1	HIE	X	428	58.865	36.194	24.645	0.00	0.00
ATOM	6440	CE1	HIE	X	428	60.037	36.855	24.635	0.00	0.00
ATOM	6441	HE1	HIE	X	428	60.955	36.456	24.229	0.00	0.00
ATOM	6442	NE2	HIE	X	428	59.826	38.080	25.252	0.00	0.00
ATOM	6443	HE2	HIE	X	428	60.500	38.773	25.544	0.00	0.00
ATOM	6444	CD2	HIE	X	428	58.491	38.112	25.744	0.00	0.00

ATOM	6445	HD2	HIE	X	428	57.906	38.809	26.325	0.00	0.00
ATOM	6446	C	HIE	X	428	57.479	34.876	27.285	0.00	0.00
ATOM	6447	O	HIE	X	428	57.295	35.501	28.346	0.00	0.00
ATOM	6448	N	ARG	X	429	58.504	34.057	27.093	0.00	0.00
ATOM	6449	H	ARG	X	429	58.520	33.508	26.245	0.00	0.00
ATOM	6450	CA	ARG	X	429	59.607	33.938	28.043	0.00	0.00
ATOM	6451	HA	ARG	X	429	59.182	34.172	29.019	0.00	0.00
ATOM	6452	CB	ARG	X	429	60.234	32.493	27.999	0.00	0.00
ATOM	6453	HB2	ARG	X	429	59.514	31.943	28.605	0.00	0.00
ATOM	6454	HB3	ARG	X	429	60.080	32.161	26.972	0.00	0.00
ATOM	6455	CG	ARG	X	429	61.646	32.353	28.594	0.00	0.00
ATOM	6456	HG2	ARG	X	429	62.227	32.910	27.860	0.00	0.00
ATOM	6457	HG3	ARG	X	429	61.759	32.870	29.547	0.00	0.00
ATOM	6458	CD	ARG	X	429	62.062	30.908	28.920	0.00	0.00
ATOM	6459	HD2	ARG	X	429	61.960	30.217	28.084	0.00	0.00
ATOM	6460	HD3	ARG	X	429	63.136	31.061	29.028	0.00	0.00
ATOM	6461	NE	ARG	X	429	61.448	30.437	30.128	0.00	0.00
ATOM	6462	HE	ARG	X	429	60.447	30.331	30.052	0.00	0.00
ATOM	6463	CZ	ARG	X	429	62.018	30.253	31.320	0.00	0.00
ATOM	6464	NH1	ARG	X	429	63.236	30.412	31.584	0.00	0.00
ATOM	6465	HH11	ARG	X	429	63.864	30.852	30.926	0.00	0.00
ATOM	6466	HH12	ARG	X	429	63.673	30.318	32.490	0.00	0.00
ATOM	6467	NH2	ARG	X	429	61.307	29.866	32.320	0.00	0.00
ATOM	6468	HH21	ARG	X	429	60.306	30.000	32.303	0.00	0.00
ATOM	6469	HH22	ARG	X	429	61.724	29.779	33.236	0.00	0.00
ATOM	6470	C	ARG	X	429	60.629	34.983	27.622	0.00	0.00
ATOM	6471	O	ARG	X	429	61.329	34.828	26.594	0.00	0.00
ATOM	6472	N	ALA	X	430	60.694	36.166	28.319	0.00	0.00
ATOM	6473	H	ALA	X	430	60.067	36.262	29.105	0.00	0.00
ATOM	6474	CA	ALA	X	430	61.476	37.348	27.992	0.00	0.00
ATOM	6475	HA	ALA	X	430	61.355	37.569	26.932	0.00	0.00
ATOM	6476	CB	ALA	X	430	61.093	38.533	28.879	0.00	0.00
ATOM	6477	HB1	ALA	X	430	60.991	38.198	29.911	0.00	0.00
ATOM	6478	HB2	ALA	X	430	61.785	39.372	28.807	0.00	0.00
ATOM	6479	HB3	ALA	X	430	60.171	39.002	28.534	0.00	0.00
ATOM	6480	C	ALA	X	430	62.948	37.168	28.184	0.00	0.00
ATOM	6481	O	ALA	X	430	63.332	36.187	28.753	0.00	0.00
ATOM	6482	N	SER	X	431	63.762	37.882	27.397	0.00	0.00
ATOM	6483	H	SER	X	431	63.299	38.526	26.772	0.00	0.00
ATOM	6484	CA	SER	X	431	65.202	37.609	27.198	0.00	0.00
ATOM	6485	HA	SER	X	431	65.378	36.560	26.960	0.00	0.00
ATOM	6486	CB	SER	X	431	65.638	38.462	26.023	0.00	0.00
ATOM	6487	HB2	SER	X	431	66.692	38.281	25.812	0.00	0.00
ATOM	6488	HB3	SER	X	431	65.212	38.189	25.057	0.00	0.00
ATOM	6489	OG	SER	X	431	65.472	39.841	26.245	0.00	0.00
ATOM	6490	HG	SER	X	431	64.791	40.217	25.683	0.00	0.00
ATOM	6491	C	SER	X	431	66.075	37.906	28.421	0.00	0.00
ATOM	6492	O	SER	X	431	67.139	37.313	28.520	0.00	0.00
ATOM	6493	N	THR	X	432	65.531	38.745	29.351	0.00	0.00
ATOM	6494	H	THR	X	432	64.795	39.374	29.063	0.00	0.00
ATOM	6495	CA	THR	X	432	66.061	38.941	30.705	0.00	0.00
ATOM	6496	HA	THR	X	432	67.144	38.996	30.815	0.00	0.00
ATOM	6497	CB	THR	X	432	65.478	40.290	31.153	0.00	0.00
ATOM	6498	HB	THR	X	432	65.853	40.483	32.158	0.00	0.00
ATOM	6499	CG2	THR	X	432	65.863	41.493	30.325	0.00	0.00
ATOM	6500	HG21	THR	X	432	65.297	41.433	29.395	0.00	0.00
ATOM	6501	HG22	THR	X	432	65.514	42.414	30.791	0.00	0.00
ATOM	6502	HG23	THR	X	432	66.941	41.602	30.205	0.00	0.00
ATOM	6503	OG1	THR	X	432	64.076	40.245	31.135	0.00	0.00
ATOM	6504	HG1	THR	X	432	63.756	41.137	30.982	0.00	0.00
ATOM	6505	C	THR	X	432	65.661	37.866	31.774	0.00	0.00
ATOM	6506	O	THR	X	432	66.287	37.841	32.826	0.00	0.00
ATOM	6507	N	LEU	X	433	64.705	37.027	31.523	0.00	0.00
ATOM	6508	H	LEU	X	433	64.332	37.036	30.584	0.00	0.00
ATOM	6509	CA	LEU	X	433	64.170	36.024	32.502	0.00	0.00
ATOM	6510	HA	LEU	X	433	63.751	36.654	33.287	0.00	0.00
ATOM	6511	CB	LEU	X	433	62.997	35.306	31.831	0.00	0.00
ATOM	6512	HB2	LEU	X	433	62.485	35.978	31.142	0.00	0.00
ATOM	6513	HB3	LEU	X	433	63.378	34.604	31.089	0.00	0.00
ATOM	6514	CG	LEU	X	433	62.079	34.715	32.852	0.00	0.00

ATOM	6515	HG	LEU	X	433	62.585	34.110	33.604	0.00	0.00
ATOM	6516	CD1	LEU	X	433	61.216	35.922	33.440	0.00	0.00
ATOM	6517	HD11	LEU	X	433	60.253	35.513	33.747	0.00	0.00
ATOM	6518	HD12	LEU	X	433	61.735	36.335	34.304	0.00	0.00
ATOM	6519	HD13	LEU	X	433	61.089	36.738	32.729	0.00	0.00
ATOM	6520	CD2	LEU	X	433	61.095	33.773	32.208	0.00	0.00
ATOM	6521	HD21	LEU	X	433	60.555	34.270	31.403	0.00	0.00
ATOM	6522	HD22	LEU	X	433	61.564	32.890	31.775	0.00	0.00
ATOM	6523	HD23	LEU	X	433	60.375	33.458	32.964	0.00	0.00
ATOM	6524	C	LEU	X	433	65.176	35.077	33.179	0.00	0.00
ATOM	6525	O	LEU	X	433	65.898	34.277	32.522	0.00	0.00
ATOM	6526	N	SER	X	434	65.243	35.131	34.475	0.00	0.00
ATOM	6527	H	SER	X	434	64.631	35.761	34.974	0.00	0.00
ATOM	6528	CA	SER	X	434	66.136	34.322	35.304	0.00	0.00
ATOM	6529	HA	SER	X	434	66.935	33.869	34.717	0.00	0.00
ATOM	6530	CB	SER	X	434	66.712	35.041	36.535	0.00	0.00
ATOM	6531	HB2	SER	X	434	67.356	34.285	36.984	0.00	0.00
ATOM	6532	HB3	SER	X	434	67.289	35.939	36.317	0.00	0.00
ATOM	6533	OG	SER	X	434	65.719	35.377	37.471	0.00	0.00
ATOM	6534	HG	SER	X	434	65.886	36.233	37.871	0.00	0.00
ATOM	6535	C	SER	X	434	65.444	33.079	35.829	0.00	0.00
ATOM	6536	O	SER	X	434	66.115	32.119	36.166	0.00	0.00
ATOM	6537	N	TRP	X	435	64.099	33.033	35.877	0.00	0.00
ATOM	6538	H	TRP	X	435	63.659	33.866	35.512	0.00	0.00
ATOM	6539	CA	TRP	X	435	63.277	31.897	36.422	0.00	0.00
ATOM	6540	HA	TRP	X	435	63.826	31.743	37.351	0.00	0.00
ATOM	6541	CB	TRP	X	435	61.827	32.116	36.624	0.00	0.00
ATOM	6542	HB2	TRP	X	435	61.289	32.304	35.694	0.00	0.00
ATOM	6543	HB3	TRP	X	435	61.503	31.205	37.126	0.00	0.00
ATOM	6544	CG	TRP	X	435	61.446	33.195	37.552	0.00	0.00
ATOM	6545	CD1	TRP	X	435	60.839	34.310	37.124	0.00	0.00
ATOM	6546	HD1	TRP	X	435	60.415	34.515	36.152	0.00	0.00
ATOM	6547	NE1	TRP	X	435	60.448	35.080	38.217	0.00	0.00
ATOM	6548	HE1	TRP	X	435	59.963	35.966	38.225	0.00	0.00
ATOM	6549	CE2	TRP	X	435	60.842	34.493	39.406	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	60.607	34.815	40.731	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	59.914	35.615	40.945	0.00	0.00
ATOM	6552	CH2	TRP	X	435	60.983	33.924	41.739	0.00	0.00
ATOM	6553	HH2	TRP	X	435	60.655	34.152	42.742	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	61.676	32.710	41.404	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	62.005	32.060	42.201	0.00	0.00
ATOM	6556	CE3	TRP	X	435	61.889	32.421	40.018	0.00	0.00
ATOM	6557	HE3	TRP	X	435	62.390	31.476	39.869	0.00	0.00
ATOM	6558	CD2	TRP	X	435	61.510	33.294	38.984	0.00	0.00
ATOM	6559	C	TRP	X	435	63.519	30.574	35.700	0.00	0.00
ATOM	6560	O	TRP	X	435	63.597	30.648	34.463	0.00	0.00
ATOM	6561	N	PRO	X	436	63.654	29.372	36.365	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.726	29.302	37.840	0.00	0.00
ATOM	6563	HD2	PRO	X	436	62.852	29.782	38.280	0.00	0.00
ATOM	6564	HD3	PRO	X	436	64.669	29.671	38.245	0.00	0.00
ATOM	6565	CG	PRO	X	436	63.721	27.827	38.200	0.00	0.00
ATOM	6566	HG2	PRO	X	436	62.741	27.465	38.513	0.00	0.00
ATOM	6567	HG3	PRO	X	436	64.427	27.628	39.006	0.00	0.00
ATOM	6568	CB	PRO	X	436	64.107	27.114	36.902	0.00	0.00
ATOM	6569	HB2	PRO	X	436	63.590	26.159	36.807	0.00	0.00
ATOM	6570	HB3	PRO	X	436	65.163	26.859	36.986	0.00	0.00
ATOM	6571	CA	PRO	X	436	64.025	28.122	35.767	0.00	0.00
ATOM	6572	HA	PRO	X	436	65.037	28.156	35.365	0.00	0.00
ATOM	6573	C	PRO	X	436	63.025	27.742	34.654	0.00	0.00
ATOM	6574	O	PRO	X	436	61.902	28.143	34.586	0.00	0.00
ATOM	6575	N	LEU	X	437	63.512	26.946	33.652	0.00	0.00
ATOM	6576	H	LEU	X	437	64.459	26.606	33.738	0.00	0.00
ATOM	6577	CA	LEU	X	437	62.786	26.615	32.452	0.00	0.00
ATOM	6578	HA	LEU	X	437	62.581	27.556	31.940	0.00	0.00
ATOM	6579	CB	LEU	X	437	63.743	25.914	31.471	0.00	0.00
ATOM	6580	HB2	LEU	X	437	64.597	26.556	31.255	0.00	0.00
ATOM	6581	HB3	LEU	X	437	64.227	24.993	31.795	0.00	0.00
ATOM	6582	CG	LEU	X	437	63.204	25.629	30.045	0.00	0.00
ATOM	6583	HG	LEU	X	437	62.330	24.991	30.178	0.00	0.00
ATOM	6584	CD1	LEU	X	437	62.729	26.934	29.360	0.00	0.00

ATOM	6585	HD11	LEU	X	437	62.051	27.417	30.064	0.00	0.00
ATOM	6586	HD12	LEU	X	437	63.560	27.601	29.130	0.00	0.00
ATOM	6587	HD13	LEU	X	437	62.116	26.725	28.484	0.00	0.00
ATOM	6588	CD2	LEU	X	437	64.256	24.983	29.123	0.00	0.00
ATOM	6589	HD21	LEU	X	437	64.676	24.051	29.502	0.00	0.00
ATOM	6590	HD22	LEU	X	437	63.848	24.882	28.118	0.00	0.00
ATOM	6591	HD23	LEU	X	437	65.027	25.747	29.024	0.00	0.00
ATOM	6592	C	LEU	X	437	61.396	25.815	32.679	0.00	0.00
ATOM	6593	O	LEU	X	437	60.454	26.178	31.919	0.00	0.00
ATOM	6594	N	TRP	X	438	61.316	24.849	33.555	0.00	0.00
ATOM	6595	H	TRP	X	438	62.145	24.398	33.915	0.00	0.00
ATOM	6596	CA	TRP	X	438	60.022	24.177	33.918	0.00	0.00
ATOM	6597	HA	TRP	X	438	59.640	23.781	32.977	0.00	0.00
ATOM	6598	CB	TRP	X	438	60.238	23.092	34.905	0.00	0.00
ATOM	6599	HB2	TRP	X	438	59.309	22.548	35.072	0.00	0.00
ATOM	6600	HB3	TRP	X	438	61.038	22.418	34.599	0.00	0.00
ATOM	6601	CG	TRP	X	438	60.519	23.584	36.285	0.00	0.00
ATOM	6602	CD1	TRP	X	438	61.730	23.762	36.853	0.00	0.00
ATOM	6603	HD1	TRP	X	438	62.646	23.625	36.297	0.00	0.00
ATOM	6604	NE1	TRP	X	438	61.669	24.129	38.188	0.00	0.00
ATOM	6605	HE1	TRP	X	438	62.442	24.103	38.839	0.00	0.00
ATOM	6606	CE2	TRP	X	438	60.350	24.452	38.453	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	59.787	25.123	39.610	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	60.406	25.478	40.421	0.00	0.00
ATOM	6609	CH2	TRP	X	438	58.448	25.074	39.802	0.00	0.00
ATOM	6610	HH2	TRP	X	438	57.988	25.419	40.716	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	57.711	24.433	38.751	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	56.645	24.357	38.911	0.00	0.00
ATOM	6613	CE3	TRP	X	438	58.241	23.973	37.529	0.00	0.00
ATOM	6614	HE3	TRP	X	438	57.556	23.823	36.707	0.00	0.00
ATOM	6615	CD2	TRP	X	438	59.605	24.022	37.330	0.00	0.00
ATOM	6616	C	TRP	X	438	58.907	25.170	34.343	0.00	0.00
ATOM	6617	O	TRP	X	438	57.745	24.831	34.111	0.00	0.00
ATOM	6618	N	MET	X	439	59.287	26.326	34.911	0.00	0.00
ATOM	6619	H	MET	X	439	60.268	26.530	35.036	0.00	0.00
ATOM	6620	CA	MET	X	439	58.295	27.294	35.294	0.00	0.00
ATOM	6621	HA	MET	X	439	57.540	26.629	35.713	0.00	0.00
ATOM	6622	CB	MET	X	439	58.818	28.236	36.310	0.00	0.00
ATOM	6623	HB2	MET	X	439	59.608	28.852	35.880	0.00	0.00
ATOM	6624	HB3	MET	X	439	57.916	28.808	36.529	0.00	0.00
ATOM	6625	CG	MET	X	439	59.374	27.625	37.597	0.00	0.00
ATOM	6626	HG2	MET	X	439	58.503	27.284	38.156	0.00	0.00
ATOM	6627	HG3	MET	X	439	60.147	26.867	37.469	0.00	0.00
ATOM	6628	SD	MET	X	439	60.214	28.935	38.482	0.00	0.00
ATOM	6629	CE	MET	X	439	58.734	29.594	39.329	0.00	0.00
ATOM	6630	HE1	MET	X	439	57.898	29.893	38.697	0.00	0.00
ATOM	6631	HE2	MET	X	439	58.245	28.816	39.914	0.00	0.00
ATOM	6632	HE3	MET	X	439	59.059	30.413	39.972	0.00	0.00
ATOM	6633	C	MET	X	439	57.686	28.018	34.109	0.00	0.00
ATOM	6634	O	MET	X	439	56.574	28.613	34.253	0.00	0.00
ATOM	6635	N	GLY	X	440	58.330	27.802	32.955	0.00	0.00
ATOM	6636	H	GLY	X	440	59.245	27.374	32.941	0.00	0.00
ATOM	6637	CA	GLY	X	440	57.751	28.297	31.672	0.00	0.00
ATOM	6638	HA2	GLY	X	440	58.581	28.213	30.936	0.00	0.00
ATOM	6639	HA3	GLY	X	440	56.756	27.810	31.409	0.00	0.00
ATOM	6640	C	GLY	X	440	57.642	29.849	31.660	0.00	0.00
ATOM	6641	O	GLY	X	440	58.692	30.479	31.568	0.00	0.00
ATOM	6642	N	VAL	X	441	56.514	30.486	31.879	0.00	0.00
ATOM	6643	H	VAL	X	441	55.757	29.873	32.146	0.00	0.00
ATOM	6644	CA	VAL	X	441	56.395	31.878	32.301	0.00	0.00
ATOM	6645	HA	VAL	X	441	57.347	32.360	32.526	0.00	0.00
ATOM	6646	CB	VAL	X	441	55.624	32.763	31.246	0.00	0.00
ATOM	6647	HB	VAL	X	441	54.559	32.546	31.159	0.00	0.00
ATOM	6648	CG1	VAL	X	441	55.778	34.258	31.613	0.00	0.00
ATOM	6649	HG11	VAL	X	441	55.128	34.474	32.461	0.00	0.00
ATOM	6650	HG12	VAL	X	441	56.771	34.469	32.012	0.00	0.00
ATOM	6651	HG13	VAL	X	441	55.461	34.906	30.796	0.00	0.00
ATOM	6652	CG2	VAL	X	441	56.138	32.668	29.780	0.00	0.00
ATOM	6653	HG21	VAL	X	441	57.176	33.003	29.784	0.00	0.00
ATOM	6654	HG22	VAL	X	441	55.919	31.689	29.355	0.00	0.00

ATOM	6655	HG23	VAL	X	441	55.499	33.364	29.238	0.00	0.00
ATOM	6656	C	VAL	X	441	55.608	31.773	33.659	0.00	0.00
ATOM	6657	O	VAL	X	441	54.398	31.755	33.642	0.00	0.00
ATOM	6658	N	PRO	X	442	56.230	31.924	34.840	0.00	0.00
ATOM	6659	CD	PRO	X	442	57.662	32.005	35.071	0.00	0.00
ATOM	6660	HD2	PRO	X	442	58.210	32.780	34.536	0.00	0.00
ATOM	6661	HD3	PRO	X	442	58.135	31.110	34.665	0.00	0.00
ATOM	6662	CG	PRO	X	442	57.860	32.145	36.620	0.00	0.00
ATOM	6663	HG2	PRO	X	442	58.021	33.190	36.884	0.00	0.00
ATOM	6664	HG3	PRO	X	442	58.664	31.622	37.138	0.00	0.00
ATOM	6665	CB	PRO	X	442	56.550	31.629	37.168	0.00	0.00
ATOM	6666	HB2	PRO	X	442	56.405	31.957	38.197	0.00	0.00
ATOM	6667	HB3	PRO	X	442	56.606	30.544	37.073	0.00	0.00
ATOM	6668	CA	PRO	X	442	55.539	32.018	36.166	0.00	0.00
ATOM	6669	HA	PRO	X	442	54.804	31.238	36.364	0.00	0.00
ATOM	6670	C	PRO	X	442	54.849	33.347	36.505	0.00	0.00
ATOM	6671	O	PRO	X	442	55.090	34.322	35.840	0.00	0.00
ATOM	6672	N	HIP	X	443	54.056	33.467	37.603	0.00	0.00
ATOM	6673	H	HIP	X	443	53.885	32.649	38.171	0.00	0.00
ATOM	6674	CA	HIP	X	443	53.132	34.489	37.886	0.00	0.00
ATOM	6675	HA	HIP	X	443	52.279	34.482	37.207	0.00	0.00
ATOM	6676	CB	HIP	X	443	52.704	34.183	39.324	0.00	0.00
ATOM	6677	HB2	HIP	X	443	52.141	33.250	39.322	0.00	0.00
ATOM	6678	HB3	HIP	X	443	53.570	34.099	39.980	0.00	0.00
ATOM	6679	CG	HIP	X	443	51.867	35.279	39.920	0.00	0.00
ATOM	6680	ND1	HIP	X	443	50.567	35.531	39.610	0.00	0.00
ATOM	6681	HD1	HIP	X	443	50.065	35.051	38.877	0.00	0.00
ATOM	6682	CE1	HIP	X	443	50.058	36.191	40.668	0.00	0.00
ATOM	6683	HE1	HIP	X	443	49.036	36.478	40.862	0.00	0.00
ATOM	6684	NE2	HIP	X	443	50.990	36.529	41.521	0.00	0.00
ATOM	6685	HE2	HIP	X	443	50.856	37.079	42.357	0.00	0.00
ATOM	6686	CD2	HIP	X	443	52.200	35.969	41.035	0.00	0.00
ATOM	6687	HD2	HIP	X	443	53.114	35.959	41.611	0.00	0.00
ATOM	6688	C	HIP	X	443	53.694	35.937	37.895	0.00	0.00
ATOM	6689	O	HIP	X	443	54.765	36.198	38.483	0.00	0.00
ATOM	6690	N	GLY	X	444	52.900	36.888	37.313	0.00	0.00
ATOM	6691	H	GLY	X	444	51.995	36.534	37.039	0.00	0.00
ATOM	6692	CA	GLY	X	444	53.243	38.314	37.379	0.00	0.00
ATOM	6693	HA2	GLY	X	444	52.347	38.858	37.022	0.00	0.00
ATOM	6694	HA3	GLY	X	444	53.552	38.685	38.362	0.00	0.00
ATOM	6695	C	GLY	X	444	54.257	38.849	36.364	0.00	0.00
ATOM	6696	O	GLY	X	444	55.095	39.695	36.779	0.00	0.00
ATOM	6697	N	TYR	X	445	54.317	38.291	35.146	0.00	0.00
ATOM	6698	H	TYR	X	445	53.676	37.576	34.833	0.00	0.00
ATOM	6699	CA	TYR	X	445	55.433	38.546	34.212	0.00	0.00
ATOM	6700	HA	TYR	X	445	56.035	39.346	34.643	0.00	0.00
ATOM	6701	CB	TYR	X	445	56.343	37.287	34.179	0.00	0.00
ATOM	6702	HB2	TYR	X	445	55.713	36.424	34.397	0.00	0.00
ATOM	6703	HB3	TYR	X	445	56.717	37.134	33.167	0.00	0.00
ATOM	6704	CG	TYR	X	445	57.587	37.425	35.060	0.00	0.00
ATOM	6705	CD1	TYR	X	445	58.694	38.162	34.623	0.00	0.00
ATOM	6706	HD1	TYR	X	445	58.703	38.543	33.612	0.00	0.00
ATOM	6707	CE1	TYR	X	445	59.766	38.379	35.552	0.00	0.00
ATOM	6708	HE1	TYR	X	445	60.615	38.957	35.216	0.00	0.00
ATOM	6709	CZ	TYR	X	445	59.655	37.962	36.922	0.00	0.00
ATOM	6710	OH	TYR	X	445	60.635	38.092	37.806	0.00	0.00
ATOM	6711	HH	TYR	X	445	61.493	38.428	37.535	0.00	0.00
ATOM	6712	CE2	TYR	X	445	58.489	37.319	37.276	0.00	0.00
ATOM	6713	HE2	TYR	X	445	58.304	37.165	38.329	0.00	0.00
ATOM	6714	CD2	TYR	X	445	57.471	36.959	36.376	0.00	0.00
ATOM	6715	HD2	TYR	X	445	56.639	36.375	36.742	0.00	0.00
ATOM	6716	C	TYR	X	445	55.056	39.156	32.873	0.00	0.00
ATOM	6717	O	TYR	X	445	55.949	39.442	32.072	0.00	0.00
ATOM	6718	N	GLU	X	446	53.789	39.447	32.607	0.00	0.00
ATOM	6719	H	GLU	X	446	53.103	39.347	33.341	0.00	0.00
ATOM	6720	CA	GLU	X	446	53.314	40.289	31.534	0.00	0.00
ATOM	6721	HA	GLU	X	446	53.927	40.007	30.678	0.00	0.00
ATOM	6722	CB	GLU	X	446	51.826	40.112	31.185	0.00	0.00
ATOM	6723	HB2	GLU	X	446	51.600	40.536	30.207	0.00	0.00
ATOM	6724	HB3	GLU	X	446	51.683	39.035	31.099	0.00	0.00

ATOM	6725	CG	GLU	X	446	50.665	40.678	32.079	0.00	0.00
ATOM	6726	HG2	GLU	X	446	50.790	41.746	32.258	0.00	0.00
ATOM	6727	HG3	GLU	X	446	49.727	40.516	31.548	0.00	0.00
ATOM	6728	CD	GLU	X	446	50.572	40.039	33.451	0.00	0.00
ATOM	6729	OE1	GLU	X	446	51.581	40.172	34.191	0.00	0.00
ATOM	6730	OE2	GLU	X	446	49.488	39.465	33.811	0.00	0.00
ATOM	6731	C	GLU	X	446	53.636	41.713	31.851	0.00	0.00
ATOM	6732	O	GLU	X	446	54.042	42.382	30.917	0.00	0.00
ATOM	6733	N	ILE	X	447	53.494	42.111	33.090	0.00	0.00
ATOM	6734	H	ILE	X	447	53.104	41.409	33.703	0.00	0.00
ATOM	6735	CA	ILE	X	447	53.515	43.473	33.624	0.00	0.00
ATOM	6736	HA	ILE	X	447	52.527	43.882	33.409	0.00	0.00
ATOM	6737	CB	ILE	X	447	53.651	43.363	35.165	0.00	0.00
ATOM	6738	HB	ILE	X	447	52.889	42.637	35.447	0.00	0.00
ATOM	6739	CG2	ILE	X	447	54.985	42.786	35.568	0.00	0.00
ATOM	6740	HG21	ILE	X	447	55.263	41.887	35.018	0.00	0.00
ATOM	6741	HG22	ILE	X	447	55.862	43.414	35.408	0.00	0.00
ATOM	6742	HG23	ILE	X	447	55.088	42.565	36.630	0.00	0.00
ATOM	6743	CG1	ILE	X	447	53.435	44.760	35.861	0.00	0.00
ATOM	6744	HG12	ILE	X	447	53.455	44.600	36.939	0.00	0.00
ATOM	6745	HG13	ILE	X	447	54.278	45.409	35.626	0.00	0.00
ATOM	6746	CD1	ILE	X	447	52.135	45.513	35.422	0.00	0.00
ATOM	6747	HD11	ILE	X	447	52.121	46.421	36.025	0.00	0.00
ATOM	6748	HD12	ILE	X	447	52.067	45.866	34.392	0.00	0.00
ATOM	6749	HD13	ILE	X	447	51.234	44.917	35.570	0.00	0.00
ATOM	6750	C	ILE	X	447	54.444	44.496	33.102	0.00	0.00
ATOM	6751	O	ILE	X	447	54.033	45.571	32.796	0.00	0.00
ATOM	6752	N	GLU	X	448	55.695	44.066	32.884	0.00	0.00
ATOM	6753	H	GLU	X	448	55.789	43.087	33.114	0.00	0.00
ATOM	6754	CA	GLU	X	448	56.787	44.841	32.368	0.00	0.00
ATOM	6755	HA	GLU	X	448	56.722	45.766	32.941	0.00	0.00
ATOM	6756	CB	GLU	X	448	58.121	44.118	32.625	0.00	0.00
ATOM	6757	HB2	GLU	X	448	58.030	43.052	32.418	0.00	0.00
ATOM	6758	HB3	GLU	X	448	58.944	44.469	32.002	0.00	0.00
ATOM	6759	CG	GLU	X	448	58.672	44.284	33.979	0.00	0.00
ATOM	6760	HG2	GLU	X	448	58.549	45.333	34.245	0.00	0.00
ATOM	6761	HG3	GLU	X	448	58.065	43.750	34.710	0.00	0.00
ATOM	6762	CD	GLU	X	448	60.096	43.844	34.164	0.00	0.00
ATOM	6763	OE1	GLU	X	448	60.380	42.647	33.983	0.00	0.00
ATOM	6764	OE2	GLU	X	448	60.977	44.658	34.537	0.00	0.00
ATOM	6765	C	GLU	X	448	56.753	45.258	30.833	0.00	0.00
ATOM	6766	O	GLU	X	448	57.249	46.318	30.512	0.00	0.00
ATOM	6767	N	PHE	X	449	56.042	44.420	29.968	0.00	0.00
ATOM	6768	H	PHE	X	449	55.629	43.540	30.244	0.00	0.00
ATOM	6769	CA	PHE	X	449	55.721	44.805	28.557	0.00	0.00
ATOM	6770	HA	PHE	X	449	56.565	45.324	28.103	0.00	0.00
ATOM	6771	CB	PHE	X	449	55.386	43.515	27.796	0.00	0.00
ATOM	6772	HB2	PHE	X	449	54.719	43.020	28.502	0.00	0.00
ATOM	6773	HB3	PHE	X	449	54.829	43.737	26.887	0.00	0.00
ATOM	6774	CG	PHE	X	449	56.531	42.684	27.459	0.00	0.00
ATOM	6775	CD1	PHE	X	449	57.264	42.000	28.476	0.00	0.00
ATOM	6776	HD1	PHE	X	449	56.962	41.965	29.512	0.00	0.00
ATOM	6777	CE1	PHE	X	449	58.471	41.312	28.174	0.00	0.00
ATOM	6778	HE1	PHE	X	449	59.029	40.787	28.935	0.00	0.00
ATOM	6779	CZ	PHE	X	449	58.981	41.420	26.885	0.00	0.00
ATOM	6780	HZ	PHE	X	449	59.894	40.890	26.655	0.00	0.00
ATOM	6781	CE2	PHE	X	449	58.328	42.180	25.838	0.00	0.00
ATOM	6782	HE2	PHE	X	449	58.802	42.445	24.904	0.00	0.00
ATOM	6783	CD2	PHE	X	449	57.089	42.767	26.159	0.00	0.00
ATOM	6784	HD2	PHE	X	449	56.541	43.297	25.393	0.00	0.00
ATOM	6785	C	PHE	X	449	54.601	45.837	28.554	0.00	0.00
ATOM	6786	O	PHE	X	449	54.572	46.725	27.735	0.00	0.00
ATOM	6787	N	ILE	X	450	53.696	45.801	29.542	0.00	0.00
ATOM	6788	H	ILE	X	450	53.938	45.148	30.274	0.00	0.00
ATOM	6789	CA	ILE	X	450	52.478	46.741	29.744	0.00	0.00
ATOM	6790	HA	ILE	X	450	51.984	47.008	28.810	0.00	0.00
ATOM	6791	CB	ILE	X	450	51.411	46.103	30.705	0.00	0.00
ATOM	6792	HB	ILE	X	450	51.950	45.957	31.642	0.00	0.00
ATOM	6793	CG2	ILE	X	450	50.318	47.105	31.032	0.00	0.00
ATOM	6794	HG21	ILE	X	450	49.582	46.689	31.719	0.00	0.00

ATOM	6795	HG22	ILE	X	450	50.632	47.990	31.585	0.00	0.00
ATOM	6796	HG23	ILE	X	450	49.686	47.414	30.200	0.00	0.00
ATOM	6797	CG1	ILE	X	450	50.874	44.698	30.364	0.00	0.00
ATOM	6798	HG12	ILE	X	450	51.696	43.983	30.402	0.00	0.00
ATOM	6799	HG13	ILE	X	450	50.046	44.490	31.042	0.00	0.00
ATOM	6800	CD1	ILE	X	450	50.329	44.544	28.941	0.00	0.00
ATOM	6801	HD11	ILE	X	450	50.124	43.484	28.789	0.00	0.00
ATOM	6802	HD12	ILE	X	450	49.387	45.089	28.886	0.00	0.00
ATOM	6803	HD13	ILE	X	450	51.066	44.972	28.262	0.00	0.00
ATOM	6804	C	ILE	X	450	52.946	48.142	30.232	0.00	0.00
ATOM	6805	O	ILE	X	450	52.408	49.184	29.877	0.00	0.00
ATOM	6806	N	PHE	X	451	54.000	48.070	31.107	0.00	0.00
ATOM	6807	H	PHE	X	451	54.264	47.171	31.483	0.00	0.00
ATOM	6808	CA	PHE	X	451	54.561	49.315	31.604	0.00	0.00
ATOM	6809	HA	PHE	X	451	53.742	50.001	31.818	0.00	0.00
ATOM	6810	CB	PHE	X	451	55.188	49.177	33.008	0.00	0.00
ATOM	6811	HB2	PHE	X	451	55.380	48.119	33.187	0.00	0.00
ATOM	6812	HB3	PHE	X	451	56.201	49.577	32.992	0.00	0.00
ATOM	6813	CG	PHE	X	451	54.366	49.757	34.111	0.00	0.00
ATOM	6814	CD1	PHE	X	451	53.285	49.069	34.631	0.00	0.00
ATOM	6815	HD1	PHE	X	451	53.065	48.093	34.223	0.00	0.00
ATOM	6816	CE1	PHE	X	451	52.505	49.615	35.668	0.00	0.00
ATOM	6817	HE1	PHE	X	451	51.685	49.074	36.117	0.00	0.00
ATOM	6818	CZ	PHE	X	451	52.890	50.864	36.234	0.00	0.00
ATOM	6819	HZ	PHE	X	451	52.334	51.294	37.054	0.00	0.00
ATOM	6820	CE2	PHE	X	451	53.906	51.601	35.699	0.00	0.00
ATOM	6821	HE2	PHE	X	451	54.277	52.497	36.175	0.00	0.00
ATOM	6822	CD2	PHE	X	451	54.642	51.046	34.590	0.00	0.00
ATOM	6823	HD2	PHE	X	451	55.431	51.716	34.280	0.00	0.00
ATOM	6824	C	PHE	X	451	55.526	49.915	30.607	0.00	0.00
ATOM	6825	O	PHE	X	451	55.867	51.108	30.665	0.00	0.00
ATOM	6826	N	GLY	X	452	56.020	49.076	29.739	0.00	0.00
ATOM	6827	H	GLY	X	452	55.654	48.136	29.690	0.00	0.00
ATOM	6828	CA	GLY	X	452	56.916	49.498	28.643	0.00	0.00
ATOM	6829	HA2	GLY	X	452	56.733	48.828	27.745	0.00	0.00
ATOM	6830	HA3	GLY	X	452	56.817	50.584	28.454	0.00	0.00
ATOM	6831	C	GLY	X	452	58.367	49.271	28.835	0.00	0.00
ATOM	6832	O	GLY	X	452	59.211	49.966	28.259	0.00	0.00
ATOM	6833	N	ILE	X	453	58.779	48.430	29.801	0.00	0.00
ATOM	6834	H	ILE	X	453	58.019	47.943	30.254	0.00	0.00
ATOM	6835	CA	ILE	X	453	60.184	48.295	30.177	0.00	0.00
ATOM	6836	HA	ILE	X	453	60.454	49.263	30.600	0.00	0.00
ATOM	6837	CB	ILE	X	453	60.274	47.421	31.437	0.00	0.00
ATOM	6838	HB	ILE	X	453	60.117	46.426	31.023	0.00	0.00
ATOM	6839	CG2	ILE	X	453	61.702	47.213	31.931	0.00	0.00
ATOM	6840	HG21	ILE	X	453	62.020	48.116	32.452	0.00	0.00
ATOM	6841	HG22	ILE	X	453	61.634	46.472	32.728	0.00	0.00
ATOM	6842	HG23	ILE	X	453	62.420	46.958	31.153	0.00	0.00
ATOM	6843	CG1	ILE	X	453	59.351	47.870	32.640	0.00	0.00
ATOM	6844	HG12	ILE	X	453	58.322	47.787	32.291	0.00	0.00
ATOM	6845	HG13	ILE	X	453	59.534	47.061	33.347	0.00	0.00
ATOM	6846	CD1	ILE	X	453	59.596	49.246	33.212	0.00	0.00
ATOM	6847	HD11	ILE	X	453	60.647	49.450	33.415	0.00	0.00
ATOM	6848	HD12	ILE	X	453	59.115	49.994	32.581	0.00	0.00
ATOM	6849	HD13	ILE	X	453	59.171	49.362	34.209	0.00	0.00
ATOM	6850	C	ILE	X	453	61.172	47.945	29.010	0.00	0.00
ATOM	6851	O	ILE	X	453	62.322	48.430	29.135	0.00	0.00
ATOM	6852	N	PRO	X	454	60.763	47.089	28.050	0.00	0.00
ATOM	6853	CD	PRO	X	454	59.551	46.285	28.003	0.00	0.00
ATOM	6854	HD2	PRO	X	454	58.815	46.735	27.335	0.00	0.00
ATOM	6855	HD3	PRO	X	454	59.233	46.004	29.007	0.00	0.00
ATOM	6856	CG	PRO	X	454	59.983	45.104	27.230	0.00	0.00
ATOM	6857	HG2	PRO	X	454	59.079	44.619	26.863	0.00	0.00
ATOM	6858	HG3	PRO	X	454	60.593	44.417	27.818	0.00	0.00
ATOM	6859	CB	PRO	X	454	60.876	45.794	26.148	0.00	0.00
ATOM	6860	HB2	PRO	X	454	60.292	46.306	25.383	0.00	0.00
ATOM	6861	HB3	PRO	X	454	61.520	45.026	25.719	0.00	0.00
ATOM	6862	CA	PRO	X	454	61.682	46.799	26.953	0.00	0.00
ATOM	6863	HA	PRO	X	454	62.559	46.229	27.260	0.00	0.00
ATOM	6864	C	PRO	X	454	62.244	47.967	26.200	0.00	0.00

ATOM	6865	O	PRO	X	454	63.350	47.886	25.729	0.00	0.00
ATOM	6866	N	LEU	X	455	61.570	49.130	26.202	0.00	0.00
ATOM	6867	H	LEU	X	455	60.735	49.186	26.767	0.00	0.00
ATOM	6868	CA	LEU	X	455	62.027	50.318	25.545	0.00	0.00
ATOM	6869	HA	LEU	X	455	62.421	50.126	24.547	0.00	0.00
ATOM	6870	CB	LEU	X	455	60.890	51.389	25.419	0.00	0.00
ATOM	6871	HB2	LEU	X	455	60.655	51.812	26.396	0.00	0.00
ATOM	6872	HB3	LEU	X	455	61.307	52.254	24.901	0.00	0.00
ATOM	6873	CG	LEU	X	455	59.542	50.846	24.864	0.00	0.00
ATOM	6874	HG	LEU	X	455	59.114	50.203	25.633	0.00	0.00
ATOM	6875	CD1	LEU	X	455	58.520	52.064	24.628	0.00	0.00
ATOM	6876	HD11	LEU	X	455	58.892	52.604	23.757	0.00	0.00
ATOM	6877	HD12	LEU	X	455	57.493	51.712	24.528	0.00	0.00
ATOM	6878	HD13	LEU	X	455	58.534	52.706	25.509	0.00	0.00
ATOM	6879	CD2	LEU	X	455	59.685	50.124	23.597	0.00	0.00
ATOM	6880	HD21	LEU	X	455	58.709	49.878	23.180	0.00	0.00
ATOM	6881	HD22	LEU	X	455	60.241	50.756	22.904	0.00	0.00
ATOM	6882	HD23	LEU	X	455	60.251	49.197	23.695	0.00	0.00
ATOM	6883	C	LEU	X	455	63.311	50.828	26.221	0.00	0.00
ATOM	6884	O	LEU	X	455	64.102	51.485	25.584	0.00	0.00
ATOM	6885	N	ASP	X	456	63.604	50.519	27.526	0.00	0.00
ATOM	6886	H	ASP	X	456	63.146	49.801	28.069	0.00	0.00
ATOM	6887	CA	ASP	X	456	64.539	51.180	28.452	0.00	0.00
ATOM	6888	HA	ASP	X	456	64.195	52.197	28.643	0.00	0.00
ATOM	6889	CB	ASP	X	456	64.527	50.417	29.812	0.00	0.00
ATOM	6890	HB2	ASP	X	456	63.519	50.332	30.218	0.00	0.00
ATOM	6891	HB3	ASP	X	456	64.931	49.451	29.507	0.00	0.00
ATOM	6892	CG	ASP	X	456	65.401	51.048	31.011	0.00	0.00
ATOM	6893	OD1	ASP	X	456	66.122	52.042	30.670	0.00	0.00
ATOM	6894	OD2	ASP	X	456	65.289	50.585	32.203	0.00	0.00
ATOM	6895	C	ASP	X	456	65.982	51.106	27.838	0.00	0.00
ATOM	6896	O	ASP	X	456	66.453	49.979	27.634	0.00	0.00
ATOM	6897	N	PRO	X	457	66.724	52.222	27.621	0.00	0.00
ATOM	6898	CD	PRO	X	457	66.284	53.565	27.871	0.00	0.00
ATOM	6899	HD2	PRO	X	457	65.728	53.690	28.801	0.00	0.00
ATOM	6900	HD3	PRO	X	457	65.568	53.932	27.135	0.00	0.00
ATOM	6901	CG	PRO	X	457	67.530	54.389	27.768	0.00	0.00
ATOM	6902	HG2	PRO	X	457	67.930	54.459	28.780	0.00	0.00
ATOM	6903	HG3	PRO	X	457	67.310	55.409	27.455	0.00	0.00
ATOM	6904	CB	PRO	X	457	68.423	53.585	26.799	0.00	0.00
ATOM	6905	HB2	PRO	X	457	69.487	53.820	26.837	0.00	0.00
ATOM	6906	HB3	PRO	X	457	68.095	53.626	25.760	0.00	0.00
ATOM	6907	CA	PRO	X	457	68.161	52.161	27.271	0.00	0.00
ATOM	6908	HA	PRO	X	457	68.355	51.527	26.406	0.00	0.00
ATOM	6909	C	PRO	X	457	69.126	51.692	28.381	0.00	0.00
ATOM	6910	O	PRO	X	457	70.257	51.387	28.133	0.00	0.00
ATOM	6911	N	SER	X	458	68.683	51.639	29.639	0.00	0.00
ATOM	6912	H	SER	X	458	67.738	51.850	29.927	0.00	0.00
ATOM	6913	CA	SER	X	458	69.609	51.238	30.780	0.00	0.00
ATOM	6914	HA	SER	X	458	70.617	51.627	30.635	0.00	0.00
ATOM	6915	CB	SER	X	458	69.199	51.793	32.139	0.00	0.00
ATOM	6916	HB2	SER	X	458	69.891	51.493	32.926	0.00	0.00
ATOM	6917	HB3	SER	X	458	69.253	52.882	32.139	0.00	0.00
ATOM	6918	OG	SER	X	458	67.873	51.346	32.552	0.00	0.00
ATOM	6919	HG	SER	X	458	67.253	51.603	31.865	0.00	0.00
ATOM	6920	C	SER	X	458	69.839	49.728	31.060	0.00	0.00
ATOM	6921	O	SER	X	458	70.788	49.297	31.742	0.00	0.00
ATOM	6922	N	ARG	X	459	68.930	48.960	30.499	0.00	0.00
ATOM	6923	H	ARG	X	459	68.233	49.440	29.948	0.00	0.00
ATOM	6924	CA	ARG	X	459	68.983	47.504	30.389	0.00	0.00
ATOM	6925	HA	ARG	X	459	69.995	47.206	30.665	0.00	0.00
ATOM	6926	CB	ARG	X	459	68.021	46.757	31.273	0.00	0.00
ATOM	6927	HB2	ARG	X	459	68.062	45.678	31.121	0.00	0.00
ATOM	6928	HB3	ARG	X	459	68.411	46.946	32.274	0.00	0.00
ATOM	6929	CG	ARG	X	459	66.509	47.165	31.336	0.00	0.00
ATOM	6930	HG2	ARG	X	459	66.344	48.215	31.098	0.00	0.00
ATOM	6931	HG3	ARG	X	459	66.136	46.669	30.439	0.00	0.00
ATOM	6932	CD	ARG	X	459	65.571	46.812	32.513	0.00	0.00
ATOM	6933	HD2	ARG	X	459	64.542	46.792	32.154	0.00	0.00
ATOM	6934	HD3	ARG	X	459	65.719	45.795	32.877	0.00	0.00

ATOM	6935	NE	ARG	X	459	65.832	47.676	33.636	0.00	0.00
ATOM	6936	HE	ARG	X	459	66.465	48.463	33.628	0.00	0.00
ATOM	6937	CZ	ARG	X	459	65.218	47.649	34.816	0.00	0.00
ATOM	6938	NH1	ARG	X	459	64.450	46.641	35.181	0.00	0.00
ATOM	6939	HH11	ARG	X	459	64.269	45.916	34.502	0.00	0.00
ATOM	6940	HH12	ARG	X	459	64.086	46.549	36.119	0.00	0.00
ATOM	6941	NH2	ARG	X	459	65.372	48.593	35.690	0.00	0.00
ATOM	6942	HH21	ARG	X	459	66.055	49.317	35.519	0.00	0.00
ATOM	6943	HH22	ARG	X	459	64.967	48.438	36.602	0.00	0.00
ATOM	6944	C	ARG	X	459	68.800	46.960	28.938	0.00	0.00
ATOM	6945	O	ARG	X	459	68.564	47.808	28.010	0.00	0.00
ATOM	6946	N	ASN	X	460	68.868	45.694	28.699	0.00	0.00
ATOM	6947	H	ASN	X	460	69.172	45.072	29.435	0.00	0.00
ATOM	6948	CA	ASN	X	460	68.797	45.111	27.395	0.00	0.00
ATOM	6949	HA	ASN	X	460	68.690	45.993	26.763	0.00	0.00
ATOM	6950	CB	ASN	X	460	70.181	44.579	26.929	0.00	0.00
ATOM	6951	HB2	ASN	X	460	70.833	45.352	27.335	0.00	0.00
ATOM	6952	HB3	ASN	X	460	70.395	43.600	27.357	0.00	0.00
ATOM	6953	CG	ASN	X	460	70.397	44.728	25.470	0.00	0.00
ATOM	6954	OD1	ASN	X	460	69.483	45.085	24.740	0.00	0.00
ATOM	6955	ND2	ASN	X	460	71.611	44.484	24.908	0.00	0.00
ATOM	6956	HD21	ASN	X	460	71.605	44.575	23.902	0.00	0.00
ATOM	6957	HD22	ASN	X	460	72.439	44.203	25.413	0.00	0.00
ATOM	6958	C	ASN	X	460	67.560	44.200	27.094	0.00	0.00
ATOM	6959	O	ASN	X	460	67.207	43.308	27.883	0.00	0.00
ATOM	6960	N	TYR	X	461	66.965	44.459	25.923	0.00	0.00
ATOM	6961	H	TYR	X	461	67.329	45.245	25.404	0.00	0.00
ATOM	6962	CA	TYR	X	461	65.760	43.867	25.347	0.00	0.00
ATOM	6963	HA	TYR	X	461	65.772	42.820	25.650	0.00	0.00
ATOM	6964	CB	TYR	X	461	64.488	44.628	25.843	0.00	0.00
ATOM	6965	HB2	TYR	X	461	64.572	45.715	25.826	0.00	0.00
ATOM	6966	HB3	TYR	X	461	63.696	44.424	25.123	0.00	0.00
ATOM	6967	CG	TYR	X	461	64.053	44.144	27.231	0.00	0.00
ATOM	6968	CD1	TYR	X	461	64.537	44.755	28.436	0.00	0.00
ATOM	6969	HD1	TYR	X	461	65.009	45.721	28.341	0.00	0.00
ATOM	6970	CE1	TYR	X	461	64.073	44.304	29.672	0.00	0.00
ATOM	6971	HE1	TYR	X	461	64.427	44.762	30.584	0.00	0.00
ATOM	6972	CZ	TYR	X	461	63.192	43.232	29.753	0.00	0.00
ATOM	6973	OH	TYR	X	461	62.725	42.826	30.935	0.00	0.00
ATOM	6974	HH	TYR	X	461	61.982	42.223	30.859	0.00	0.00
ATOM	6975	CE2	TYR	X	461	62.794	42.558	28.580	0.00	0.00
ATOM	6976	HE2	TYR	X	461	62.091	41.739	28.525	0.00	0.00
ATOM	6977	CD2	TYR	X	461	63.241	42.955	27.323	0.00	0.00
ATOM	6978	HD2	TYR	X	461	63.136	42.353	26.432	0.00	0.00
ATOM	6979	C	TYR	X	461	65.908	43.951	23.815	0.00	0.00
ATOM	6980	O	TYR	X	461	66.362	44.935	23.225	0.00	0.00
ATOM	6981	N	THR	X	462	65.523	42.894	23.143	0.00	0.00
ATOM	6982	H	THR	X	462	65.372	42.049	23.675	0.00	0.00
ATOM	6983	CA	THR	X	462	65.708	42.623	21.698	0.00	0.00
ATOM	6984	HA	THR	X	462	66.629	43.006	21.258	0.00	0.00
ATOM	6985	CB	THR	X	462	65.605	41.203	21.363	0.00	0.00
ATOM	6986	HB	THR	X	462	65.616	41.078	20.280	0.00	0.00
ATOM	6987	CG2	THR	X	462	66.747	40.394	22.069	0.00	0.00
ATOM	6988	HG21	THR	X	462	66.539	40.104	23.100	0.00	0.00
ATOM	6989	HG22	THR	X	462	66.895	39.477	21.499	0.00	0.00
ATOM	6990	HG23	THR	X	462	67.660	40.982	22.162	0.00	0.00
ATOM	6991	OG1	THR	X	462	64.425	40.611	21.855	0.00	0.00
ATOM	6992	HG1	THR	X	462	64.320	40.869	22.773	0.00	0.00
ATOM	6993	C	THR	X	462	64.656	43.417	20.910	0.00	0.00
ATOM	6994	O	THR	X	462	63.609	43.753	21.501	0.00	0.00
ATOM	6995	N	ALA	X	463	64.885	43.629	19.608	0.00	0.00
ATOM	6996	H	ALA	X	463	65.749	43.248	19.248	0.00	0.00
ATOM	6997	CA	ALA	X	463	63.999	44.449	18.798	0.00	0.00
ATOM	6998	HA	ALA	X	463	63.983	45.433	19.267	0.00	0.00
ATOM	6999	CB	ALA	X	463	64.666	44.621	17.501	0.00	0.00
ATOM	7000	HB1	ALA	X	463	65.665	45.058	17.507	0.00	0.00
ATOM	7001	HB2	ALA	X	463	64.804	43.661	17.002	0.00	0.00
ATOM	7002	HB3	ALA	X	463	64.006	45.304	16.967	0.00	0.00
ATOM	7003	C	ALA	X	463	62.618	43.889	18.757	0.00	0.00
ATOM	7004	O	ALA	X	463	61.652	44.662	18.829	0.00	0.00

ATOM	7005	N	GLU	X	464	62.565	42.546	18.810	0.00	0.00
ATOM	7006	H	GLU	X	464	63.387	41.967	18.908	0.00	0.00
ATOM	7007	CA	GLU	X	464	61.243	41.877	18.791	0.00	0.00
ATOM	7008	HA	GLU	X	464	60.720	42.321	17.944	0.00	0.00
ATOM	7009	CB	GLU	X	464	61.401	40.409	18.347	0.00	0.00
ATOM	7010	HB2	GLU	X	464	60.472	39.846	18.431	0.00	0.00
ATOM	7011	HB3	GLU	X	464	61.654	40.412	17.286	0.00	0.00
ATOM	7012	CG	GLU	X	464	62.476	39.411	18.907	0.00	0.00
ATOM	7013	HG2	GLU	X	464	62.514	39.339	19.994	0.00	0.00
ATOM	7014	HG3	GLU	X	464	62.132	38.404	18.671	0.00	0.00
ATOM	7015	CD	GLU	X	464	63.891	39.667	18.412	0.00	0.00
ATOM	7016	OE1	GLU	X	464	64.114	40.575	17.576	0.00	0.00
ATOM	7017	OE2	GLU	X	464	64.763	38.911	18.922	0.00	0.00
ATOM	7018	C	GLU	X	464	60.467	42.087	20.151	0.00	0.00
ATOM	7019	O	GLU	X	464	59.220	42.062	20.132	0.00	0.00
ATOM	7020	N	GLU	X	465	61.096	42.267	21.309	0.00	0.00
ATOM	7021	H	GLU	X	465	62.100	42.380	21.316	0.00	0.00
ATOM	7022	CA	GLU	X	465	60.366	42.529	22.551	0.00	0.00
ATOM	7023	HA	GLU	X	465	59.435	41.962	22.564	0.00	0.00
ATOM	7024	CB	GLU	X	465	61.316	42.297	23.750	0.00	0.00
ATOM	7025	HB2	GLU	X	465	62.258	42.846	23.753	0.00	0.00
ATOM	7026	HB3	GLU	X	465	60.877	42.493	24.728	0.00	0.00
ATOM	7027	CG	GLU	X	465	61.606	40.811	23.695	0.00	0.00
ATOM	7028	HG2	GLU	X	465	60.655	40.319	23.897	0.00	0.00
ATOM	7029	HG3	GLU	X	465	62.076	40.539	22.750	0.00	0.00
ATOM	7030	CD	GLU	X	465	62.617	40.409	24.729	0.00	0.00
ATOM	7031	OE1	GLU	X	465	63.792	40.719	24.503	0.00	0.00
ATOM	7032	OE2	GLU	X	465	62.260	39.860	25.800	0.00	0.00
ATOM	7033	C	GLU	X	465	59.958	44.018	22.610	0.00	0.00
ATOM	7034	O	GLU	X	465	58.905	44.264	23.165	0.00	0.00
ATOM	7035	N	LYS	X	466	60.792	44.898	22.012	0.00	0.00
ATOM	7036	H	LYS	X	466	61.648	44.539	21.611	0.00	0.00
ATOM	7037	CA	LYS	X	466	60.430	46.331	21.848	0.00	0.00
ATOM	7038	HA	LYS	X	466	60.127	46.736	22.813	0.00	0.00
ATOM	7039	CB	LYS	X	466	61.582	47.208	21.369	0.00	0.00
ATOM	7040	HB2	LYS	X	466	61.987	46.823	20.434	0.00	0.00
ATOM	7041	HB3	LYS	X	466	61.283	48.241	21.191	0.00	0.00
ATOM	7042	CG	LYS	X	466	62.730	47.267	22.395	0.00	0.00
ATOM	7043	HG2	LYS	X	466	62.442	47.849	23.270	0.00	0.00
ATOM	7044	HG3	LYS	X	466	62.829	46.215	22.663	0.00	0.00
ATOM	7045	CD	LYS	X	466	64.053	47.677	21.832	0.00	0.00
ATOM	7046	HD2	LYS	X	466	64.548	46.915	21.230	0.00	0.00
ATOM	7047	HD3	LYS	X	466	63.935	48.536	21.172	0.00	0.00
ATOM	7048	CE	LYS	X	466	64.912	47.878	23.152	0.00	0.00
ATOM	7049	HE2	LYS	X	466	64.417	48.661	23.726	0.00	0.00
ATOM	7050	HE3	LYS	X	466	64.756	46.988	23.760	0.00	0.00
ATOM	7051	NZ	LYS	X	466	66.361	48.087	22.843	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	66.890	48.439	23.628	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	66.860	47.295	22.463	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	66.512	48.834	22.180	0.00	0.00
ATOM	7055	C	LYS	X	466	59.208	46.565	20.980	0.00	0.00
ATOM	7056	O	LYS	X	466	58.251	47.225	21.479	0.00	0.00
ATOM	7057	N	ILE	X	467	59.064	45.966	19.813	0.00	0.00
ATOM	7058	H	ILE	X	467	59.846	45.423	19.474	0.00	0.00
ATOM	7059	CA	ILE	X	467	57.787	46.067	19.077	0.00	0.00
ATOM	7060	HA	ILE	X	467	57.405	47.088	19.092	0.00	0.00
ATOM	7061	CB	ILE	X	467	57.856	45.694	17.583	0.00	0.00
ATOM	7062	HB	ILE	X	467	56.800	45.688	17.312	0.00	0.00
ATOM	7063	CG2	ILE	X	467	58.554	46.793	16.869	0.00	0.00
ATOM	7064	HG21	ILE	X	467	58.281	47.787	17.224	0.00	0.00
ATOM	7065	HG22	ILE	X	467	59.639	46.730	16.951	0.00	0.00
ATOM	7066	HG23	ILE	X	467	58.318	46.669	15.811	0.00	0.00
ATOM	7067	CG1	ILE	X	467	58.452	44.306	17.326	0.00	0.00
ATOM	7068	HG12	ILE	X	467	59.485	44.146	17.636	0.00	0.00
ATOM	7069	HG13	ILE	X	467	57.943	43.571	17.950	0.00	0.00
ATOM	7070	CD1	ILE	X	467	58.429	43.844	15.806	0.00	0.00
ATOM	7071	HD11	ILE	X	467	58.699	42.789	15.761	0.00	0.00
ATOM	7072	HD12	ILE	X	467	57.449	44.020	15.363	0.00	0.00
ATOM	7073	HD13	ILE	X	467	59.223	44.380	15.287	0.00	0.00
ATOM	7074	C	ILE	X	467	56.585	45.286	19.714	0.00	0.00

ATOM	7075	O	ILE	X	467	55.482	45.823	19.704	0.00	0.00
ATOM	7076	N	PHE	X	468	56.763	44.066	20.291	0.00	0.00
ATOM	7077	H	PHE	X	468	57.595	43.516	20.129	0.00	0.00
ATOM	7078	CA	PHE	X	468	55.829	43.451	21.268	0.00	0.00
ATOM	7079	HA	PHE	X	468	54.857	43.349	20.786	0.00	0.00
ATOM	7080	CB	PHE	X	468	56.391	42.146	21.722	0.00	0.00
ATOM	7081	HB2	PHE	X	468	56.610	41.467	20.898	0.00	0.00
ATOM	7082	HB3	PHE	X	468	57.288	42.273	22.328	0.00	0.00
ATOM	7083	CG	PHE	X	468	55.534	41.334	22.632	0.00	0.00
ATOM	7084	CD1	PHE	X	468	54.215	41.003	22.238	0.00	0.00
ATOM	7085	HD1	PHE	X	468	53.797	41.461	21.354	0.00	0.00
ATOM	7086	CE1	PHE	X	468	53.436	40.128	23.035	0.00	0.00
ATOM	7087	HE1	PHE	X	468	52.398	39.940	22.802	0.00	0.00
ATOM	7088	CZ	PHE	X	468	54.003	39.552	24.184	0.00	0.00
ATOM	7089	HZ	PHE	X	468	53.409	38.826	24.719	0.00	0.00
ATOM	7090	CE2	PHE	X	468	55.275	39.855	24.623	0.00	0.00
ATOM	7091	HE2	PHE	X	468	55.667	39.258	25.433	0.00	0.00
ATOM	7092	CD2	PHE	X	468	56.070	40.713	23.819	0.00	0.00
ATOM	7093	HD2	PHE	X	468	57.102	40.746	24.135	0.00	0.00
ATOM	7094	C	PHE	X	468	55.521	44.349	22.492	0.00	0.00
ATOM	7095	O	PHE	X	468	54.400	44.377	22.939	0.00	0.00
ATOM	7096	N	ALA	X	469	56.376	45.190	23.058	0.00	0.00
ATOM	7097	H	ALA	X	469	57.365	45.070	22.889	0.00	0.00
ATOM	7098	CA	ALA	X	469	56.065	46.147	24.131	0.00	0.00
ATOM	7099	HA	ALA	X	469	55.612	45.606	24.962	0.00	0.00
ATOM	7100	CB	ALA	X	469	57.367	46.803	24.732	0.00	0.00
ATOM	7101	HB1	ALA	X	469	57.024	47.489	25.507	0.00	0.00
ATOM	7102	HB2	ALA	X	469	57.899	45.957	25.167	0.00	0.00
ATOM	7103	HB3	ALA	X	469	57.882	47.309	23.914	0.00	0.00
ATOM	7104	C	ALA	X	469	55.070	47.179	23.651	0.00	0.00
ATOM	7105	O	ALA	X	469	54.016	47.293	24.222	0.00	0.00
ATOM	7106	N	GLN	X	470	55.451	47.832	22.530	0.00	0.00
ATOM	7107	H	GLN	X	470	56.408	47.770	22.212	0.00	0.00
ATOM	7108	CA	GLN	X	470	54.663	48.907	21.901	0.00	0.00
ATOM	7109	HA	GLN	X	470	54.561	49.786	22.538	0.00	0.00
ATOM	7110	CB	GLN	X	470	55.250	49.425	20.590	0.00	0.00
ATOM	7111	HB2	GLN	X	470	55.445	48.562	19.954	0.00	0.00
ATOM	7112	HB3	GLN	X	470	54.568	50.066	20.031	0.00	0.00
ATOM	7113	CG	GLN	X	470	56.501	50.307	20.942	0.00	0.00
ATOM	7114	HG2	GLN	X	470	56.182	51.245	21.396	0.00	0.00
ATOM	7115	HG3	GLN	X	470	57.173	49.881	21.687	0.00	0.00
ATOM	7116	CD	GLN	X	470	57.314	50.546	19.630	0.00	0.00
ATOM	7117	OE1	GLN	X	470	58.306	49.907	19.421	0.00	0.00
ATOM	7118	NE2	GLN	X	470	56.977	51.621	18.905	0.00	0.00
ATOM	7119	HE21	GLN	X	470	57.435	51.865	18.038	0.00	0.00
ATOM	7120	HE22	GLN	X	470	56.191	52.208	19.145	0.00	0.00
ATOM	7121	C	GLN	X	470	53.281	48.462	21.587	0.00	0.00
ATOM	7122	O	GLN	X	470	52.249	49.159	21.582	0.00	0.00
ATOM	7123	N	ARG	X	471	53.163	47.159	21.239	0.00	0.00
ATOM	7124	H	ARG	X	471	54.087	46.752	21.265	0.00	0.00
ATOM	7125	CA	ARG	X	471	51.954	46.487	20.798	0.00	0.00
ATOM	7126	HA	ARG	X	471	51.447	46.989	19.974	0.00	0.00
ATOM	7127	CB	ARG	X	471	52.450	45.249	20.102	0.00	0.00
ATOM	7128	HB2	ARG	X	471	53.118	45.549	19.295	0.00	0.00
ATOM	7129	HB3	ARG	X	471	53.061	44.731	20.842	0.00	0.00
ATOM	7130	CG	ARG	X	471	51.339	44.285	19.524	0.00	0.00
ATOM	7131	HG2	ARG	X	471	50.587	44.255	20.313	0.00	0.00
ATOM	7132	HG3	ARG	X	471	50.859	44.775	18.676	0.00	0.00
ATOM	7133	CD	ARG	X	471	51.985	42.936	19.137	0.00	0.00
ATOM	7134	HD2	ARG	X	471	52.574	42.993	18.221	0.00	0.00
ATOM	7135	HD3	ARG	X	471	52.528	42.608	20.024	0.00	0.00
ATOM	7136	NE	ARG	X	471	50.946	41.975	18.910	0.00	0.00
ATOM	7137	HE	ARG	X	471	50.006	42.333	18.999	0.00	0.00
ATOM	7138	CZ	ARG	X	471	51.077	40.629	19.036	0.00	0.00
ATOM	7139	NH1	ARG	X	471	52.250	40.119	19.048	0.00	0.00
ATOM	7140	HH11	ARG	X	471	53.082	40.651	18.837	0.00	0.00
ATOM	7141	HH12	ARG	X	471	52.447	39.140	19.200	0.00	0.00
ATOM	7142	NH2	ARG	X	471	50.022	39.926	19.170	0.00	0.00
ATOM	7143	HH21	ARG	X	471	49.076	40.279	19.205	0.00	0.00
ATOM	7144	HH22	ARG	X	471	50.173	38.943	19.342	0.00	0.00

ATOM	7145	C	ARG	X	471	50.978	46.225	21.951	0.00	0.00
ATOM	7146	O	ARG	X	471	49.775	46.413	21.817	0.00	0.00
ATOM	7147	N	LEU	X	472	51.436	45.996	23.127	0.00	0.00
ATOM	7148	H	LEU	X	472	52.437	45.891	23.208	0.00	0.00
ATOM	7149	CA	LEU	X	472	50.690	45.736	24.397	0.00	0.00
ATOM	7150	HA	LEU	X	472	49.678	45.398	24.177	0.00	0.00
ATOM	7151	CB	LEU	X	472	51.387	44.669	25.253	0.00	0.00
ATOM	7152	HB2	LEU	X	472	52.386	45.011	25.522	0.00	0.00
ATOM	7153	HB3	LEU	X	472	50.699	44.435	26.066	0.00	0.00
ATOM	7154	CG	LEU	X	472	51.589	43.349	24.585	0.00	0.00
ATOM	7155	HG	LEU	X	472	52.347	43.407	23.803	0.00	0.00
ATOM	7156	CD1	LEU	X	472	52.266	42.418	25.636	0.00	0.00
ATOM	7157	HD11	LEU	X	472	53.064	42.997	26.099	0.00	0.00
ATOM	7158	HD12	LEU	X	472	51.529	42.182	26.404	0.00	0.00
ATOM	7159	HD13	LEU	X	472	52.628	41.551	25.084	0.00	0.00
ATOM	7160	CD2	LEU	X	472	50.369	42.723	23.935	0.00	0.00
ATOM	7161	HD21	LEU	X	472	49.465	42.834	24.533	0.00	0.00
ATOM	7162	HD22	LEU	X	472	50.130	43.225	22.997	0.00	0.00
ATOM	7163	HD23	LEU	X	472	50.421	41.641	23.813	0.00	0.00
ATOM	7164	C	LEU	X	472	50.423	47.005	25.173	0.00	0.00
ATOM	7165	O	LEU	X	472	49.355	47.255	25.707	0.00	0.00
ATOM	7166	N	MET	X	473	51.388	47.942	25.265	0.00	0.00
ATOM	7167	H	MET	X	473	52.357	47.720	25.089	0.00	0.00
ATOM	7168	CA	MET	X	473	51.110	49.264	25.622	0.00	0.00
ATOM	7169	HA	MET	X	473	50.772	49.208	26.657	0.00	0.00
ATOM	7170	CB	MET	X	473	52.345	50.180	25.542	0.00	0.00
ATOM	7171	HB2	MET	X	473	52.720	50.303	24.526	0.00	0.00
ATOM	7172	HB3	MET	X	473	51.969	51.159	25.841	0.00	0.00
ATOM	7173	CG	MET	X	473	53.409	49.743	26.559	0.00	0.00
ATOM	7174	HG2	MET	X	473	53.137	49.929	27.598	0.00	0.00
ATOM	7175	HG3	MET	X	473	53.572	48.679	26.389	0.00	0.00
ATOM	7176	SD	MET	X	473	54.993	50.505	26.053	0.00	0.00
ATOM	7177	CE	MET	X	473	54.966	52.088	26.877	0.00	0.00
ATOM	7178	HE1	MET	X	473	54.715	51.949	27.928	0.00	0.00
ATOM	7179	HE2	MET	X	473	55.974	52.483	26.745	0.00	0.00
ATOM	7180	HE3	MET	X	473	54.142	52.683	26.485	0.00	0.00
ATOM	7181	C	MET	X	473	49.912	49.933	24.829	0.00	0.00
ATOM	7182	O	MET	X	473	48.846	50.283	25.410	0.00	0.00
ATOM	7183	N	ARG	X	474	50.026	49.830	23.472	0.00	0.00
ATOM	7184	H	ARG	X	474	50.840	49.432	23.025	0.00	0.00
ATOM	7185	CA	ARG	X	474	48.941	50.204	22.548	0.00	0.00
ATOM	7186	HA	ARG	X	474	48.804	51.274	22.710	0.00	0.00
ATOM	7187	CB	ARG	X	474	49.251	50.010	21.032	0.00	0.00
ATOM	7188	HB2	ARG	X	474	50.195	50.542	20.910	0.00	0.00
ATOM	7189	HB3	ARG	X	474	49.400	48.951	20.825	0.00	0.00
ATOM	7190	CG	ARG	X	474	48.195	50.536	20.066	0.00	0.00
ATOM	7191	HG2	ARG	X	474	48.583	50.436	19.053	0.00	0.00
ATOM	7192	HG3	ARG	X	474	47.313	49.902	20.152	0.00	0.00
ATOM	7193	CD	ARG	X	474	47.873	52.008	20.334	0.00	0.00
ATOM	7194	HD2	ARG	X	474	47.383	52.197	21.289	0.00	0.00
ATOM	7195	HD3	ARG	X	474	48.850	52.492	20.356	0.00	0.00
ATOM	7196	NE	ARG	X	474	47.101	52.526	19.157	0.00	0.00
ATOM	7197	HE	ARG	X	474	46.776	51.858	18.472	0.00	0.00
ATOM	7198	CZ	ARG	X	474	46.949	53.783	18.918	0.00	0.00
ATOM	7199	NH1	ARG	X	474	47.544	54.752	19.531	0.00	0.00
ATOM	7200	HH11	ARG	X	474	48.090	54.683	20.378	0.00	0.00
ATOM	7201	HH12	ARG	X	474	47.455	55.633	19.045	0.00	0.00
ATOM	7202	NH2	ARG	X	474	46.129	54.165	17.963	0.00	0.00
ATOM	7203	HH21	ARG	X	474	45.452	53.440	17.777	0.00	0.00
ATOM	7204	HH22	ARG	X	474	46.012	55.165	17.879	0.00	0.00
ATOM	7205	C	ARG	X	474	47.577	49.519	22.813	0.00	0.00
ATOM	7206	O	ARG	X	474	46.597	50.247	22.733	0.00	0.00
ATOM	7207	N	TYR	X	475	47.541	48.270	23.170	0.00	0.00
ATOM	7208	H	TYR	X	475	48.400	47.744	23.097	0.00	0.00
ATOM	7209	CA	TYR	X	475	46.249	47.653	23.538	0.00	0.00
ATOM	7210	HA	TYR	X	475	45.484	47.920	22.809	0.00	0.00
ATOM	7211	CB	TYR	X	475	46.480	46.149	23.545	0.00	0.00
ATOM	7212	HB2	TYR	X	475	47.293	46.099	24.268	0.00	0.00
ATOM	7213	HB3	TYR	X	475	45.559	45.663	23.867	0.00	0.00
ATOM	7214	CG	TYR	X	475	46.857	45.501	22.270	0.00	0.00

ATOM	7215	CD1	TYR	X	475	46.936	46.131	20.916	0.00	0.00
ATOM	7216	HD1	TYR	X	475	46.538	47.126	20.780	0.00	0.00
ATOM	7217	CE1	TYR	X	475	47.455	45.385	19.876	0.00	0.00
ATOM	7218	HE1	TYR	X	475	47.561	45.891	18.927	0.00	0.00
ATOM	7219	CZ	TYR	X	475	47.771	44.028	20.026	0.00	0.00
ATOM	7220	OH	TYR	X	475	48.148	43.314	18.922	0.00	0.00
ATOM	7221	HH	TYR	X	475	47.922	43.809	18.131	0.00	0.00
ATOM	7222	CE2	TYR	X	475	47.543	43.405	21.249	0.00	0.00
ATOM	7223	HE2	TYR	X	475	47.701	42.339	21.313	0.00	0.00
ATOM	7224	CD2	TYR	X	475	47.097	44.123	22.365	0.00	0.00
ATOM	7225	HD2	TYR	X	475	46.961	43.569	23.282	0.00	0.00
ATOM	7226	C	TYR	X	475	45.674	48.167	24.862	0.00	0.00
ATOM	7227	O	TYR	X	475	44.522	48.575	24.848	0.00	0.00
ATOM	7228	N	TRP	X	476	46.485	48.265	25.955	0.00	0.00
ATOM	7229	H	TRP	X	476	47.425	47.917	25.832	0.00	0.00
ATOM	7230	CA	TRP	X	476	46.051	48.913	27.182	0.00	0.00
ATOM	7231	HA	TRP	X	476	45.238	48.358	27.650	0.00	0.00
ATOM	7232	CB	TRP	X	476	47.166	48.810	28.240	0.00	0.00
ATOM	7233	HB2	TRP	X	476	48.126	48.747	27.727	0.00	0.00
ATOM	7234	HB3	TRP	X	476	47.234	49.711	28.850	0.00	0.00
ATOM	7235	CG	TRP	X	476	47.060	47.541	29.117	0.00	0.00
ATOM	7236	CD1	TRP	X	476	47.108	47.542	30.492	0.00	0.00
ATOM	7237	HD1	TRP	X	476	47.357	48.393	31.109	0.00	0.00
ATOM	7238	NE1	TRP	X	476	46.950	46.230	30.967	0.00	0.00
ATOM	7239	HE1	TRP	X	476	46.865	45.952	31.934	0.00	0.00
ATOM	7240	CE2	TRP	X	476	46.866	45.306	29.882	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	46.725	43.918	29.851	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	46.643	43.318	30.745	0.00	0.00
ATOM	7243	CH2	TRP	X	476	46.772	43.198	28.635	0.00	0.00
ATOM	7244	HH2	TRP	X	476	46.866	42.123	28.669	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	46.855	43.957	27.494	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	46.914	43.508	26.514	0.00	0.00
ATOM	7247	CE3	TRP	X	476	46.925	45.328	27.561	0.00	0.00
ATOM	7248	HE3	TRP	X	476	46.997	45.910	26.655	0.00	0.00
ATOM	7249	CD2	TRP	X	476	46.938	46.124	28.697	0.00	0.00
ATOM	7250	C	TRP	X	476	45.641	50.395	26.976	0.00	0.00
ATOM	7251	O	TRP	X	476	44.564	50.758	27.503	0.00	0.00
ATOM	7252	N	ALA	X	477	46.310	51.200	26.161	0.00	0.00
ATOM	7253	H	ALA	X	477	47.090	50.829	25.638	0.00	0.00
ATOM	7254	CA	ALA	X	477	45.852	52.579	25.868	0.00	0.00
ATOM	7255	HA	ALA	X	477	45.608	53.100	26.794	0.00	0.00
ATOM	7256	CB	ALA	X	477	47.076	53.348	25.247	0.00	0.00
ATOM	7257	HB1	ALA	X	477	47.020	54.436	25.220	0.00	0.00
ATOM	7258	HB2	ALA	X	477	47.959	53.082	25.828	0.00	0.00
ATOM	7259	HB3	ALA	X	477	47.228	52.887	24.271	0.00	0.00
ATOM	7260	C	ALA	X	477	44.579	52.690	24.999	0.00	0.00
ATOM	7261	O	ALA	X	477	43.660	53.498	25.297	0.00	0.00
ATOM	7262	N	ASN	X	478	44.377	51.800	24.018	0.00	0.00
ATOM	7263	H	ASN	X	478	45.173	51.306	23.641	0.00	0.00
ATOM	7264	CA	ASN	X	478	43.102	51.783	23.253	0.00	0.00
ATOM	7265	HA	ASN	X	478	42.959	52.779	22.834	0.00	0.00
ATOM	7266	CB	ASN	X	478	43.312	50.778	22.110	0.00	0.00
ATOM	7267	HB2	ASN	X	478	43.564	49.778	22.462	0.00	0.00
ATOM	7268	HB3	ASN	X	478	42.410	50.617	21.519	0.00	0.00
ATOM	7269	CG	ASN	X	478	44.323	51.312	21.085	0.00	0.00
ATOM	7270	OD1	ASN	X	478	44.716	52.486	21.102	0.00	0.00
ATOM	7271	ND2	ASN	X	478	44.720	50.451	20.178	0.00	0.00
ATOM	7272	HD21	ASN	X	478	45.290	50.743	19.397	0.00	0.00
ATOM	7273	HD22	ASN	X	478	44.274	49.545	20.151	0.00	0.00
ATOM	7274	C	ASN	X	478	41.903	51.315	24.121	0.00	0.00
ATOM	7275	O	ASN	X	478	40.906	51.969	24.260	0.00	0.00
ATOM	7276	N	PHE	X	479	42.148	50.349	25.021	0.00	0.00
ATOM	7277	H	PHE	X	479	43.011	49.825	25.005	0.00	0.00
ATOM	7278	CA	PHE	X	479	41.184	50.014	26.135	0.00	0.00
ATOM	7279	HA	PHE	X	479	40.307	49.681	25.580	0.00	0.00
ATOM	7280	CB	PHE	X	479	41.705	48.771	26.835	0.00	0.00
ATOM	7281	HB2	PHE	X	479	41.939	48.020	26.080	0.00	0.00
ATOM	7282	HB3	PHE	X	479	42.588	48.973	27.442	0.00	0.00
ATOM	7283	CG	PHE	X	479	40.739	48.136	27.833	0.00	0.00
ATOM	7284	CD1	PHE	X	479	39.842	47.131	27.460	0.00	0.00

ATOM	7285	HD1	PHE	X	479	39.733	46.675	26.487	0.00	0.00
ATOM	7286	CE1	PHE	X	479	38.875	46.651	28.339	0.00	0.00
ATOM	7287	HE1	PHE	X	479	38.108	46.014	27.922	0.00	0.00
ATOM	7288	CZ	PHE	X	479	38.758	47.262	29.564	0.00	0.00
ATOM	7289	HZ	PHE	X	479	38.006	46.954	30.276	0.00	0.00
ATOM	7290	CE2	PHE	X	479	39.648	48.290	29.995	0.00	0.00
ATOM	7291	HE2	PHE	X	479	39.613	48.669	31.006	0.00	0.00
ATOM	7292	CD2	PHE	X	479	40.660	48.654	29.131	0.00	0.00
ATOM	7293	HD2	PHE	X	479	41.392	49.405	29.390	0.00	0.00
ATOM	7294	C	PHE	X	479	40.999	51.160	27.183	0.00	0.00
ATOM	7295	O	PHE	X	479	39.820	51.440	27.502	0.00	0.00
ATOM	7296	N	ALA	X	480	42.014	51.927	27.557	0.00	0.00
ATOM	7297	H	ALA	X	480	42.946	51.732	27.222	0.00	0.00
ATOM	7298	CA	ALA	X	480	41.778	53.208	28.358	0.00	0.00
ATOM	7299	HA	ALA	X	480	41.246	52.939	29.270	0.00	0.00
ATOM	7300	CB	ALA	X	480	43.110	53.808	28.879	0.00	0.00
ATOM	7301	HB1	ALA	X	480	43.649	52.910	29.183	0.00	0.00
ATOM	7302	HB2	ALA	X	480	43.619	54.387	28.109	0.00	0.00
ATOM	7303	HB3	ALA	X	480	42.829	54.423	29.733	0.00	0.00
ATOM	7304	C	ALA	X	480	40.855	54.184	27.662	0.00	0.00
ATOM	7305	O	ALA	X	480	40.000	54.776	28.329	0.00	0.00
ATOM	7306	N	ARG	X	481	41.007	54.287	26.346	0.00	0.00
ATOM	7307	H	ARG	X	481	41.822	53.855	25.935	0.00	0.00
ATOM	7308	CA	ARG	X	481	40.410	55.207	25.436	0.00	0.00
ATOM	7309	HA	ARG	X	481	40.357	56.190	25.903	0.00	0.00
ATOM	7310	CB	ARG	X	481	41.146	55.465	24.114	0.00	0.00
ATOM	7311	HB2	ARG	X	481	41.296	54.535	23.565	0.00	0.00
ATOM	7312	HB3	ARG	X	481	40.539	56.151	23.524	0.00	0.00
ATOM	7313	CG	ARG	X	481	42.506	56.166	24.234	0.00	0.00
ATOM	7314	HG2	ARG	X	481	42.416	57.217	24.509	0.00	0.00
ATOM	7315	HG3	ARG	X	481	43.092	55.825	25.087	0.00	0.00
ATOM	7316	CD	ARG	X	481	43.320	56.039	22.896	0.00	0.00
ATOM	7317	HD2	ARG	X	481	43.298	55.002	22.561	0.00	0.00
ATOM	7318	HD3	ARG	X	481	42.740	56.461	22.074	0.00	0.00
ATOM	7319	NE	ARG	X	481	44.640	56.671	22.927	0.00	0.00
ATOM	7320	HE	ARG	X	481	44.658	57.659	23.139	0.00	0.00
ATOM	7321	CZ	ARG	X	481	45.816	56.067	22.677	0.00	0.00
ATOM	7322	NH1	ARG	X	481	46.045	54.789	22.417	0.00	0.00
ATOM	7323	HH11	ARG	X	481	45.239	54.201	22.254	0.00	0.00
ATOM	7324	HH12	ARG	X	481	46.987	54.465	22.248	0.00	0.00
ATOM	7325	NH2	ARG	X	481	46.908	56.811	22.797	0.00	0.00
ATOM	7326	HH21	ARG	X	481	46.840	57.812	22.682	0.00	0.00
ATOM	7327	HH22	ARG	X	481	47.796	56.369	22.606	0.00	0.00
ATOM	7328	C	ARG	X	481	38.949	54.877	25.040	0.00	0.00
ATOM	7329	O	ARG	X	481	38.124	55.821	24.908	0.00	0.00
ATOM	7330	N	THR	X	482	38.638	53.593	24.785	0.00	0.00
ATOM	7331	H	THR	X	482	39.356	52.886	24.854	0.00	0.00
ATOM	7332	CA	THR	X	482	37.345	53.139	24.183	0.00	0.00
ATOM	7333	HA	THR	X	482	36.569	53.900	24.108	0.00	0.00
ATOM	7334	CB	THR	X	482	37.542	52.687	22.735	0.00	0.00
ATOM	7335	HB	THR	X	482	38.284	51.890	22.781	0.00	0.00
ATOM	7336	CG2	THR	X	482	36.309	52.363	21.983	0.00	0.00
ATOM	7337	HG21	THR	X	482	36.049	51.313	22.112	0.00	0.00
ATOM	7338	HG22	THR	X	482	35.457	53.019	22.160	0.00	0.00
ATOM	7339	HG23	THR	X	482	36.493	52.405	20.910	0.00	0.00
ATOM	7340	OG1	THR	X	482	38.105	53.882	22.184	0.00	0.00
ATOM	7341	HG1	THR	X	482	38.366	53.530	21.329	0.00	0.00
ATOM	7342	C	THR	X	482	36.796	51.915	24.938	0.00	0.00
ATOM	7343	O	THR	X	482	35.571	51.692	24.885	0.00	0.00
ATOM	7344	N	GLY	X	483	37.670	51.210	25.631	0.00	0.00
ATOM	7345	H	GLY	X	483	38.548	51.668	25.826	0.00	0.00
ATOM	7346	CA	GLY	X	483	37.295	49.941	26.320	0.00	0.00
ATOM	7347	HA2	GLY	X	483	37.745	49.778	27.282	0.00	0.00
ATOM	7348	HA3	GLY	X	483	36.286	49.972	26.550	0.00	0.00
ATOM	7349	C	GLY	X	483	37.537	48.738	25.453	0.00	0.00
ATOM	7350	O	GLY	X	483	37.179	47.612	25.883	0.00	0.00
ATOM	7351	N	ASP	X	484	38.267	48.915	24.355	0.00	0.00
ATOM	7352	H	ASP	X	484	38.485	49.881	24.157	0.00	0.00
ATOM	7353	CA	ASP	X	484	38.634	47.857	23.429	0.00	0.00
ATOM	7354	HA	ASP	X	484	38.241	46.916	23.815	0.00	0.00

ATOM	7355	CB	ASP	X	484	38.000	48.153	22.062	0.00	0.00
ATOM	7356	HB2	ASP	X	484	38.182	49.211	21.875	0.00	0.00
ATOM	7357	HB3	ASP	X	484	38.507	47.560	21.301	0.00	0.00
ATOM	7358	CG	ASP	X	484	36.491	48.038	21.928	0.00	0.00
ATOM	7359	OD1	ASP	X	484	35.716	48.379	22.847	0.00	0.00
ATOM	7360	OD2	ASP	X	484	36.052	47.626	20.885	0.00	0.00
ATOM	7361	C	ASP	X	484	40.199	47.777	23.169	0.00	0.00
ATOM	7362	O	ASP	X	484	40.782	48.863	22.973	0.00	0.00
ATOM	7363	N	PRO	X	485	40.872	46.597	23.089	0.00	0.00
ATOM	7364	CD	PRO	X	485	40.333	45.312	23.524	0.00	0.00
ATOM	7365	HD2	PRO	X	485	39.365	45.164	23.046	0.00	0.00
ATOM	7366	HD3	PRO	X	485	40.181	45.272	24.603	0.00	0.00
ATOM	7367	CG	PRO	X	485	41.310	44.307	22.950	0.00	0.00
ATOM	7368	HG2	PRO	X	485	41.034	44.180	21.904	0.00	0.00
ATOM	7369	HG3	PRO	X	485	41.175	43.359	23.471	0.00	0.00
ATOM	7370	CB	PRO	X	485	42.691	44.972	22.968	0.00	0.00
ATOM	7371	HB2	PRO	X	485	43.425	44.473	22.336	0.00	0.00
ATOM	7372	HB3	PRO	X	485	43.034	44.931	24.002	0.00	0.00
ATOM	7373	CA	PRO	X	485	42.287	46.434	22.701	0.00	0.00
ATOM	7374	HA	PRO	X	485	42.964	47.115	23.216	0.00	0.00
ATOM	7375	C	PRO	X	485	42.409	46.773	21.179	0.00	0.00
ATOM	7376	O	PRO	X	485	43.449	47.330	20.906	0.00	0.00
ATOM	7377	N	ASN	X	486	41.377	46.472	20.346	0.00	0.00
ATOM	7378	H	ASN	X	486	40.500	46.057	20.627	0.00	0.00
ATOM	7379	CA	ASN	X	486	41.526	46.754	18.899	0.00	0.00
ATOM	7380	HA	ASN	X	486	42.557	46.588	18.587	0.00	0.00
ATOM	7381	CB	ASN	X	486	40.664	45.861	18.047	0.00	0.00
ATOM	7382	HB2	ASN	X	486	40.945	45.977	17.000	0.00	0.00
ATOM	7383	HB3	ASN	X	486	40.796	44.825	18.360	0.00	0.00
ATOM	7384	CG	ASN	X	486	39.192	46.221	18.239	0.00	0.00
ATOM	7385	OD1	ASN	X	486	38.543	45.700	19.122	0.00	0.00
ATOM	7386	ND2	ASN	X	486	38.679	47.271	17.510	0.00	0.00
ATOM	7387	HD21	ASN	X	486	37.674	47.315	17.592	0.00	0.00
ATOM	7388	HD22	ASN	X	486	39.260	47.821	16.893	0.00	0.00
ATOM	7389	C	ASN	X	486	41.327	48.223	18.641	0.00	0.00
ATOM	7390	O	ASN	X	486	40.730	48.962	19.436	0.00	0.00
ATOM	7391	N	GLU	X	487	41.632	48.667	17.442	0.00	0.00
ATOM	7392	H	GLU	X	487	42.083	48.019	16.813	0.00	0.00
ATOM	7393	CA	GLU	X	487	41.509	50.114	17.081	0.00	0.00
ATOM	7394	HA	GLU	X	487	41.816	50.606	18.004	0.00	0.00
ATOM	7395	CB	GLU	X	487	42.384	50.482	15.822	0.00	0.00
ATOM	7396	HB2	GLU	X	487	41.997	49.900	14.984	0.00	0.00
ATOM	7397	HB3	GLU	X	487	42.232	51.534	15.581	0.00	0.00
ATOM	7398	CG	GLU	X	487	43.896	50.193	15.921	0.00	0.00
ATOM	7399	HG2	GLU	X	487	44.096	49.141	16.120	0.00	0.00
ATOM	7400	HG3	GLU	X	487	44.358	50.510	14.986	0.00	0.00
ATOM	7401	CD	GLU	X	487	44.610	51.016	16.979	0.00	0.00
ATOM	7402	OE1	GLU	X	487	45.552	50.458	17.529	0.00	0.00
ATOM	7403	OE2	GLU	X	487	44.293	52.213	17.060	0.00	0.00
ATOM	7404	C	GLU	X	487	40.055	50.553	16.669	0.00	0.00
ATOM	7405	O	GLU	X	487	39.395	49.748	16.061	0.00	0.00
ATOM	7406	N	PRO	X	488	39.646	51.825	16.718	0.00	0.00
ATOM	7407	CD	PRO	X	488	40.326	52.886	17.399	0.00	0.00
ATOM	7408	HD2	PRO	X	488	41.375	52.905	17.105	0.00	0.00
ATOM	7409	HD3	PRO	X	488	40.326	52.726	18.478	0.00	0.00
ATOM	7410	CG	PRO	X	488	39.651	54.178	17.060	0.00	0.00
ATOM	7411	HG2	PRO	X	488	40.115	54.546	16.144	0.00	0.00
ATOM	7412	HG3	PRO	X	488	39.777	54.969	17.799	0.00	0.00
ATOM	7413	CB	PRO	X	488	38.189	53.739	16.785	0.00	0.00
ATOM	7414	HB2	PRO	X	488	37.671	54.410	16.099	0.00	0.00
ATOM	7415	HB3	PRO	X	488	37.682	53.712	17.750	0.00	0.00
ATOM	7416	CA	PRO	X	488	38.317	52.322	16.253	0.00	0.00
ATOM	7417	HA	PRO	X	488	37.516	51.681	16.623	0.00	0.00
ATOM	7418	C	PRO	X	488	38.136	52.353	14.703	0.00	0.00
ATOM	7419	O	PRO	X	488	37.098	52.758	14.159	0.00	0.00
ATOM	7420	N	ARG	X	489	39.192	51.812	13.962	0.00	0.00
ATOM	7421	H	ARG	X	489	40.024	51.644	14.510	0.00	0.00
ATOM	7422	CA	ARG	X	489	39.371	51.834	12.468	0.00	0.00
ATOM	7423	HA	ARG	X	489	38.440	51.764	11.906	0.00	0.00
ATOM	7424	CB	ARG	X	489	40.145	53.160	12.016	0.00	0.00

ATOM	7425	HB2	ARG	X	489	40.235	53.210	10.930	0.00	0.00
ATOM	7426	HB3	ARG	X	489	39.634	54.061	12.356	0.00	0.00
ATOM	7427	CG	ARG	X	489	41.569	53.085	12.692	0.00	0.00
ATOM	7428	HG2	ARG	X	489	41.441	53.680	13.597	0.00	0.00
ATOM	7429	HG3	ARG	X	489	41.871	52.137	13.136	0.00	0.00
ATOM	7430	CD	ARG	X	489	42.838	53.555	11.882	0.00	0.00
ATOM	7431	HD2	ARG	X	489	42.387	54.212	11.138	0.00	0.00
ATOM	7432	HD3	ARG	X	489	43.424	54.227	12.509	0.00	0.00
ATOM	7433	NE	ARG	X	489	43.589	52.370	11.329	0.00	0.00
ATOM	7434	HE	ARG	X	489	43.241	51.922	10.493	0.00	0.00
ATOM	7435	CZ	ARG	X	489	44.785	52.022	11.683	0.00	0.00
ATOM	7436	NH1	ARG	X	489	45.407	51.030	11.111	0.00	0.00
ATOM	7437	HH11	ARG	X	489	45.060	50.655	10.240	0.00	0.00
ATOM	7438	HH12	ARG	X	489	46.285	50.698	11.482	0.00	0.00
ATOM	7439	NH2	ARG	X	489	45.350	52.480	12.809	0.00	0.00
ATOM	7440	HH21	ARG	X	489	44.863	53.227	13.284	0.00	0.00
ATOM	7441	HH22	ARG	X	489	46.302	52.225	13.028	0.00	0.00
ATOM	7442	C	ARG	X	489	40.078	50.569	12.083	0.00	0.00
ATOM	7443	O	ARG	X	489	41.045	50.533	11.278	0.00	0.00
ATOM	7444	N	ASP	X	490	39.815	49.505	12.819	0.00	0.00
ATOM	7445	H	ASP	X	490	39.017	49.504	13.438	0.00	0.00
ATOM	7446	CA	ASP	X	490	40.562	48.232	12.674	0.00	0.00
ATOM	7447	HA	ASP	X	490	41.524	48.466	13.130	0.00	0.00
ATOM	7448	CB	ASP	X	490	40.079	47.154	13.596	0.00	0.00
ATOM	7449	HB2	ASP	X	490	40.716	46.294	13.392	0.00	0.00
ATOM	7450	HB3	ASP	X	490	40.239	47.445	14.635	0.00	0.00
ATOM	7451	CG	ASP	X	490	38.617	46.835	13.448	0.00	0.00
ATOM	7452	OD1	ASP	X	490	38.299	45.742	12.945	0.00	0.00
ATOM	7453	OD2	ASP	X	490	37.739	47.748	13.657	0.00	0.00
ATOM	7454	C	ASP	X	490	40.740	47.702	11.241	0.00	0.00
ATOM	7455	O	ASP	X	490	39.676	47.610	10.584	0.00	0.00
ATOM	7456	N	PRO	X	491	41.930	47.372	10.829	0.00	0.00
ATOM	7457	CD	PRO	X	491	43.232	47.635	11.439	0.00	0.00
ATOM	7458	HD2	PRO	X	491	43.219	47.368	12.496	0.00	0.00
ATOM	7459	HD3	PRO	X	491	43.452	48.689	11.267	0.00	0.00
ATOM	7460	CG	PRO	X	491	44.254	46.947	10.560	0.00	0.00
ATOM	7461	HG2	PRO	X	491	44.322	45.906	10.876	0.00	0.00
ATOM	7462	HG3	PRO	X	491	45.184	47.515	10.535	0.00	0.00
ATOM	7463	CB	PRO	X	491	43.610	46.758	9.213	0.00	0.00
ATOM	7464	HB2	PRO	X	491	43.958	45.944	8.578	0.00	0.00
ATOM	7465	HB3	PRO	X	491	43.719	47.683	8.646	0.00	0.00
ATOM	7466	CA	PRO	X	491	42.081	46.697	9.540	0.00	0.00
ATOM	7467	HA	PRO	X	491	41.571	47.279	8.773	0.00	0.00
ATOM	7468	C	PRO	X	491	41.729	45.129	9.594	0.00	0.00
ATOM	7469	O	PRO	X	491	41.938	44.537	10.625	0.00	0.00
ATOM	7470	N	LYS	X	492	41.450	44.522	8.432	0.00	0.00
ATOM	7471	H	LYS	X	492	41.503	45.065	7.582	0.00	0.00
ATOM	7472	CA	LYS	X	492	41.104	43.105	8.305	0.00	0.00
ATOM	7473	HA	LYS	X	492	40.196	43.051	8.905	0.00	0.00
ATOM	7474	CB	LYS	X	492	40.574	42.790	6.894	0.00	0.00
ATOM	7475	HB2	LYS	X	492	40.321	41.742	6.729	0.00	0.00
ATOM	7476	HB3	LYS	X	492	39.595	43.261	6.813	0.00	0.00
ATOM	7477	CG	LYS	X	492	41.388	43.291	5.685	0.00	0.00
ATOM	7478	HG2	LYS	X	492	40.770	43.085	4.811	0.00	0.00
ATOM	7479	HG3	LYS	X	492	41.453	44.379	5.713	0.00	0.00
ATOM	7480	CD	LYS	X	492	42.692	42.637	5.297	0.00	0.00
ATOM	7481	HD2	LYS	X	492	43.448	42.743	6.075	0.00	0.00
ATOM	7482	HD3	LYS	X	492	42.496	41.596	5.041	0.00	0.00
ATOM	7483	CE	LYS	X	492	43.238	43.388	4.118	0.00	0.00
ATOM	7484	HE2	LYS	X	492	42.533	43.329	3.288	0.00	0.00
ATOM	7485	HE3	LYS	X	492	43.415	44.396	4.493	0.00	0.00
ATOM	7486	NZ	LYS	X	492	44.574	42.811	3.713	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	45.091	43.433	3.108	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	45.076	42.605	4.564	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	44.437	42.105	3.003	0.00	0.00
ATOM	7490	C	LYS	X	492	42.086	42.070	8.868	0.00	0.00
ATOM	7491	O	LYS	X	492	41.816	40.889	8.882	0.00	0.00
ATOM	7492	N	ALA	X	493	43.259	42.534	9.321	0.00	0.00
ATOM	7493	H	ALA	X	493	43.412	43.532	9.319	0.00	0.00
ATOM	7494	CA	ALA	X	493	44.261	41.756	10.088	0.00	0.00

ATOM	7495	HA	ALA	X	493	44.514	40.903	9.458	0.00	0.00
ATOM	7496	CB	ALA	X	493	45.573	42.614	10.123	0.00	0.00
ATOM	7497	HB1	ALA	X	493	46.293	42.102	10.761	0.00	0.00
ATOM	7498	HB2	ALA	X	493	46.092	42.811	9.185	0.00	0.00
ATOM	7499	HB3	ALA	X	493	45.445	43.540	10.684	0.00	0.00
ATOM	7500	C	ALA	X	493	43.735	41.222	11.433	0.00	0.00
ATOM	7501	O	ALA	X	493	42.766	41.832	11.829	0.00	0.00
ATOM	7502	N	PRO	X	494	44.455	40.235	12.083	0.00	0.00
ATOM	7503	CD	PRO	X	494	45.564	39.464	11.467	0.00	0.00
ATOM	7504	HD2	PRO	X	494	46.461	40.029	11.720	0.00	0.00
ATOM	7505	HD3	PRO	X	494	45.375	39.357	10.399	0.00	0.00
ATOM	7506	CG	PRO	X	494	45.634	38.184	12.218	0.00	0.00
ATOM	7507	HG2	PRO	X	494	46.670	37.855	12.301	0.00	0.00
ATOM	7508	HG3	PRO	X	494	44.922	37.417	11.912	0.00	0.00
ATOM	7509	CB	PRO	X	494	45.338	38.745	13.648	0.00	0.00
ATOM	7510	HB2	PRO	X	494	46.224	39.143	14.143	0.00	0.00
ATOM	7511	HB3	PRO	X	494	44.988	37.931	14.282	0.00	0.00
ATOM	7512	CA	PRO	X	494	44.116	39.699	13.339	0.00	0.00
ATOM	7513	HA	PRO	X	494	43.197	39.120	13.245	0.00	0.00
ATOM	7514	C	PRO	X	494	43.920	40.726	14.490	0.00	0.00
ATOM	7515	O	PRO	X	494	44.556	41.790	14.616	0.00	0.00
ATOM	7516	N	GLN	X	495	43.186	40.343	15.466	0.00	0.00
ATOM	7517	H	GLN	X	495	42.749	39.434	15.415	0.00	0.00
ATOM	7518	CA	GLN	X	495	42.755	41.208	16.549	0.00	0.00
ATOM	7519	HA	GLN	X	495	43.596	41.747	16.986	0.00	0.00
ATOM	7520	CB	GLN	X	495	41.778	42.351	16.059	0.00	0.00
ATOM	7521	HB2	GLN	X	495	41.553	43.017	16.892	0.00	0.00
ATOM	7522	HB3	GLN	X	495	42.229	42.971	15.284	0.00	0.00
ATOM	7523	CG	GLN	X	495	40.344	41.852	15.580	0.00	0.00
ATOM	7524	HG2	GLN	X	495	40.542	41.236	14.702	0.00	0.00
ATOM	7525	HG3	GLN	X	495	39.833	41.235	16.319	0.00	0.00
ATOM	7526	CD	GLN	X	495	39.391	43.000	15.095	0.00	0.00
ATOM	7527	OE1	GLN	X	495	38.407	43.430	15.621	0.00	0.00
ATOM	7528	NE2	GLN	X	495	39.671	43.577	13.951	0.00	0.00
ATOM	7529	HE21	GLN	X	495	39.036	44.222	13.503	0.00	0.00
ATOM	7530	HE22	GLN	X	495	40.526	43.528	13.416	0.00	0.00
ATOM	7531	C	GLN	X	495	42.155	40.321	17.621	0.00	0.00
ATOM	7532	O	GLN	X	495	41.562	39.240	17.353	0.00	0.00
ATOM	7533	N	TRP	X	496	42.120	40.882	18.791	0.00	0.00
ATOM	7534	H	TRP	X	496	42.588	41.750	19.009	0.00	0.00
ATOM	7535	CA	TRP	X	496	41.593	40.285	19.977	0.00	0.00
ATOM	7536	HA	TRP	X	496	41.872	39.236	20.076	0.00	0.00
ATOM	7537	CB	TRP	X	496	42.192	40.972	21.209	0.00	0.00
ATOM	7538	HB2	TRP	X	496	43.266	41.078	21.056	0.00	0.00
ATOM	7539	HB3	TRP	X	496	41.751	41.969	21.191	0.00	0.00
ATOM	7540	CG	TRP	X	496	42.132	40.396	22.532	0.00	0.00
ATOM	7541	CD1	TRP	X	496	41.317	39.373	22.916	0.00	0.00
ATOM	7542	HD1	TRP	X	496	40.685	38.793	22.260	0.00	0.00
ATOM	7543	NE1	TRP	X	496	41.481	39.175	24.310	0.00	0.00
ATOM	7544	HE1	TRP	X	496	40.905	38.575	24.883	0.00	0.00
ATOM	7545	CE2	TRP	X	496	42.399	40.097	24.808	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	42.721	40.481	26.097	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	42.382	39.877	26.925	0.00	0.00
ATOM	7548	CH2	TRP	X	496	43.516	41.575	26.413	0.00	0.00
ATOM	7549	HH2	TRP	X	496	43.881	41.628	27.428	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	44.035	42.330	25.309	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	44.714	43.137	25.541	0.00	0.00
ATOM	7552	CE3	TRP	X	496	43.711	41.970	23.987	0.00	0.00
ATOM	7553	HE3	TRP	X	496	44.138	42.574	23.200	0.00	0.00
ATOM	7554	CD2	TRP	X	496	42.862	40.852	23.738	0.00	0.00
ATOM	7555	C	TRP	X	496	40.039	40.324	19.936	0.00	0.00
ATOM	7556	O	TRP	X	496	39.484	41.388	20.049	0.00	0.00
ATOM	7557	N	PRO	X	497	39.333	39.197	19.846	0.00	0.00
ATOM	7558	CD	PRO	X	497	39.915	37.824	19.560	0.00	0.00
ATOM	7559	HD2	PRO	X	497	40.679	37.435	20.234	0.00	0.00
ATOM	7560	HD3	PRO	X	497	40.212	37.818	18.511	0.00	0.00
ATOM	7561	CG	PRO	X	497	38.776	36.918	19.484	0.00	0.00
ATOM	7562	HG2	PRO	X	497	38.873	36.392	20.433	0.00	0.00
ATOM	7563	HG3	PRO	X	497	38.874	36.108	18.761	0.00	0.00
ATOM	7564	CB	PRO	X	497	37.495	37.792	19.426	0.00	0.00

ATOM	7565	HB2	PRO	X	497	36.680	37.263	19.921	0.00	0.00
ATOM	7566	HB3	PRO	X	497	37.195	37.855	18.380	0.00	0.00
ATOM	7567	CA	PRO	X	497	37.858	39.160	20.052	0.00	0.00
ATOM	7568	HA	PRO	X	497	37.296	39.944	19.544	0.00	0.00
ATOM	7569	C	PRO	X	497	37.485	39.164	21.479	0.00	0.00
ATOM	7570	O	PRO	X	497	38.400	38.922	22.289	0.00	0.00
ATOM	7571	N	PRO	X	498	36.213	39.470	21.915	0.00	0.00
ATOM	7572	CD	PRO	X	498	35.109	39.838	21.062	0.00	0.00
ATOM	7573	HD2	PRO	X	498	35.069	39.215	20.169	0.00	0.00
ATOM	7574	HD3	PRO	X	498	35.151	40.856	20.676	0.00	0.00
ATOM	7575	CG	PRO	X	498	33.909	39.791	21.940	0.00	0.00
ATOM	7576	HG2	PRO	X	498	33.587	38.753	22.020	0.00	0.00
ATOM	7577	HG3	PRO	X	498	33.079	40.414	21.608	0.00	0.00
ATOM	7578	CB	PRO	X	498	34.429	40.106	23.345	0.00	0.00
ATOM	7579	HB2	PRO	X	498	33.772	39.625	24.070	0.00	0.00
ATOM	7580	HB3	PRO	X	498	34.555	41.174	23.528	0.00	0.00
ATOM	7581	CA	PRO	X	498	35.779	39.337	23.273	0.00	0.00
ATOM	7582	HA	PRO	X	498	36.547	39.737	23.936	0.00	0.00
ATOM	7583	C	PRO	X	498	35.548	37.926	23.786	0.00	0.00
ATOM	7584	O	PRO	X	498	35.578	36.967	23.053	0.00	0.00
ATOM	7585	N	TYR	X	499	35.424	37.803	25.079	0.00	0.00
ATOM	7586	H	TYR	X	499	35.434	38.638	25.646	0.00	0.00
ATOM	7587	CA	TYR	X	499	34.958	36.587	25.746	0.00	0.00
ATOM	7588	HA	TYR	X	499	35.379	35.688	25.296	0.00	0.00
ATOM	7589	CB	TYR	X	499	35.501	36.535	27.225	0.00	0.00
ATOM	7590	HB2	TYR	X	499	36.552	36.808	27.125	0.00	0.00
ATOM	7591	HB3	TYR	X	499	35.000	37.306	27.811	0.00	0.00
ATOM	7592	CG	TYR	X	499	35.457	35.252	27.953	0.00	0.00
ATOM	7593	CD1	TYR	X	499	34.317	34.840	28.676	0.00	0.00
ATOM	7594	HD1	TYR	X	499	33.434	35.458	28.740	0.00	0.00
ATOM	7595	CE1	TYR	X	499	34.336	33.676	29.487	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.493	33.296	30.046	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.537	32.961	29.594	0.00	0.00
ATOM	7598	OH	TYR	X	499	35.551	31.840	30.360	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.705	31.660	30.777	0.00	0.00
ATOM	7600	CE2	TYR	X	499	36.739	33.338	28.828	0.00	0.00
ATOM	7601	HE2	TYR	X	499	37.628	32.729	28.768	0.00	0.00
ATOM	7602	CD2	TYR	X	499	36.617	34.493	28.102	0.00	0.00
ATOM	7603	HD2	TYR	X	499	37.410	34.996	27.570	0.00	0.00
ATOM	7604	C	TYR	X	499	33.426	36.414	25.735	0.00	0.00
ATOM	7605	O	TYR	X	499	32.771	37.422	25.634	0.00	0.00
ATOM	7606	N	THR	X	500	32.812	35.210	25.821	0.00	0.00
ATOM	7607	H	THR	X	500	33.396	34.457	25.486	0.00	0.00
ATOM	7608	CA	THR	X	500	31.397	34.876	25.998	0.00	0.00
ATOM	7609	HA	THR	X	500	30.883	35.702	26.489	0.00	0.00
ATOM	7610	CB	THR	X	500	30.666	34.551	24.657	0.00	0.00
ATOM	7611	HB	THR	X	500	29.613	34.348	24.851	0.00	0.00
ATOM	7612	CG2	THR	X	500	30.672	35.759	23.702	0.00	0.00
ATOM	7613	HG21	THR	X	500	29.974	35.473	22.916	0.00	0.00
ATOM	7614	HG22	THR	X	500	30.089	36.589	24.101	0.00	0.00
ATOM	7615	HG23	THR	X	500	31.700	36.030	23.458	0.00	0.00
ATOM	7616	OG1	THR	X	500	31.219	33.490	23.953	0.00	0.00
ATOM	7617	HG1	THR	X	500	30.534	33.303	23.307	0.00	0.00
ATOM	7618	C	THR	X	500	31.258	33.708	26.927	0.00	0.00
ATOM	7619	O	THR	X	500	32.129	32.847	26.981	0.00	0.00
ATOM	7620	N	ALA	X	501	30.195	33.646	27.745	0.00	0.00
ATOM	7621	H	ALA	X	501	29.479	34.350	27.640	0.00	0.00
ATOM	7622	CA	ALA	X	501	29.768	32.536	28.622	0.00	0.00
ATOM	7623	HA	ALA	X	501	30.658	32.315	29.211	0.00	0.00
ATOM	7624	CB	ALA	X	501	28.607	33.032	29.479	0.00	0.00
ATOM	7625	HB1	ALA	X	501	28.819	34.087	29.655	0.00	0.00
ATOM	7626	HB2	ALA	X	501	27.639	32.866	29.006	0.00	0.00
ATOM	7627	HB3	ALA	X	501	28.578	32.414	30.376	0.00	0.00
ATOM	7628	C	ALA	X	501	29.447	31.263	27.783	0.00	0.00
ATOM	7629	O	ALA	X	501	29.603	30.117	28.280	0.00	0.00
ATOM	7630	N	GLY	X	502	29.062	31.411	26.491	0.00	0.00
ATOM	7631	H	GLY	X	502	28.676	32.315	26.257	0.00	0.00
ATOM	7632	CA	GLY	X	502	29.089	30.349	25.546	0.00	0.00
ATOM	7633	HA2	GLY	X	502	28.748	29.478	26.049	0.00	0.00
ATOM	7634	HA3	GLY	X	502	28.539	30.618	24.679	0.00	0.00

ATOM	7635	C	GLY	X	502	30.457	29.880	25.165	0.00	0.00
ATOM	7636	O	GLY	X	502	31.009	28.978	25.854	0.00	0.00
ATOM	7637	N	ALA	X	503	30.996	30.452	24.128	0.00	0.00
ATOM	7638	H	ALA	X	503	30.399	31.202	23.809	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.301	30.086	23.493	0.00	0.00
ATOM	7640	HA	ALA	X	503	32.359	29.007	23.351	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.301	30.615	22.123	0.00	0.00
ATOM	7642	HB1	ALA	X	503	32.057	31.677	22.162	0.00	0.00
ATOM	7643	HB2	ALA	X	503	33.181	30.465	21.497	0.00	0.00
ATOM	7644	HB3	ALA	X	503	31.538	30.198	21.466	0.00	0.00
ATOM	7645	C	ALA	X	503	33.694	30.443	24.215	0.00	0.00
ATOM	7646	O	ALA	X	503	34.700	29.829	23.983	0.00	0.00
ATOM	7647	N	GLN	X	504	33.706	31.327	25.256	0.00	0.00
ATOM	7648	H	GLN	X	504	32.879	31.843	25.521	0.00	0.00
ATOM	7649	CA	GLN	X	504	34.831	31.502	26.205	0.00	0.00
ATOM	7650	HA	GLN	X	504	34.735	32.441	26.751	0.00	0.00
ATOM	7651	CB	GLN	X	504	34.734	30.349	27.241	0.00	0.00
ATOM	7652	HB2	GLN	X	504	34.785	29.421	26.671	0.00	0.00
ATOM	7653	HB3	GLN	X	504	35.649	30.299	27.831	0.00	0.00
ATOM	7654	CG	GLN	X	504	33.483	30.360	28.131	0.00	0.00
ATOM	7655	HG2	GLN	X	504	33.370	31.303	28.665	0.00	0.00
ATOM	7656	HG3	GLN	X	504	32.624	30.232	27.473	0.00	0.00
ATOM	7657	CD	GLN	X	504	33.463	29.271	29.140	0.00	0.00
ATOM	7658	OE1	GLN	X	504	34.461	28.722	29.578	0.00	0.00
ATOM	7659	NE2	GLN	X	504	32.293	28.848	29.463	0.00	0.00
ATOM	7660	HE21	GLN	X	504	32.224	27.923	29.864	0.00	0.00
ATOM	7661	HE22	GLN	X	504	31.422	29.358	29.416	0.00	0.00
ATOM	7662	C	GLN	X	504	36.197	31.678	25.664	0.00	0.00
ATOM	7663	O	GLN	X	504	37.146	31.063	26.052	0.00	0.00
ATOM	7664	N	GLN	X	505	36.282	32.440	24.565	0.00	0.00
ATOM	7665	H	GLN	X	505	35.449	32.827	24.145	0.00	0.00
ATOM	7666	CA	GLN	X	505	37.427	32.695	23.796	0.00	0.00
ATOM	7667	HA	GLN	X	505	38.008	31.774	23.743	0.00	0.00
ATOM	7668	CB	GLN	X	505	36.993	33.071	22.375	0.00	0.00
ATOM	7669	HB2	GLN	X	505	36.559	34.069	22.434	0.00	0.00
ATOM	7670	HB3	GLN	X	505	37.902	33.090	21.775	0.00	0.00
ATOM	7671	CG	GLN	X	505	36.012	32.068	21.725	0.00	0.00
ATOM	7672	HG2	GLN	X	505	36.401	31.086	21.992	0.00	0.00
ATOM	7673	HG3	GLN	X	505	35.013	32.192	22.143	0.00	0.00
ATOM	7674	CD	GLN	X	505	35.916	32.177	20.226	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.353	31.271	19.566	0.00	0.00
ATOM	7676	NE2	GLN	X	505	35.437	33.221	19.651	0.00	0.00
ATOM	7677	HE21	GLN	X	505	35.287	33.186	18.653	0.00	0.00
ATOM	7678	HE22	GLN	X	505	35.180	34.029	20.201	0.00	0.00
ATOM	7679	C	GLN	X	505	38.243	33.836	24.335	0.00	0.00
ATOM	7680	O	GLN	X	505	37.764	34.796	24.886	0.00	0.00
ATOM	7681	N	TYR	X	506	39.505	33.757	24.048	0.00	0.00
ATOM	7682	H	TYR	X	506	39.776	32.987	23.454	0.00	0.00
ATOM	7683	CA	TYR	X	506	40.627	34.342	24.836	0.00	0.00
ATOM	7684	HA	TYR	X	506	40.429	35.394	25.043	0.00	0.00
ATOM	7685	CB	TYR	X	506	40.746	33.586	26.188	0.00	0.00
ATOM	7686	HB2	TYR	X	506	41.520	34.115	26.744	0.00	0.00
ATOM	7687	HB3	TYR	X	506	39.789	33.561	26.709	0.00	0.00
ATOM	7688	CG	TYR	X	506	41.345	32.149	26.130	0.00	0.00
ATOM	7689	CD1	TYR	X	506	40.520	31.078	25.688	0.00	0.00
ATOM	7690	HD1	TYR	X	506	39.490	31.292	25.445	0.00	0.00
ATOM	7691	CE1	TYR	X	506	41.094	29.779	25.524	0.00	0.00
ATOM	7692	HE1	TYR	X	506	40.422	29.007	25.180	0.00	0.00
ATOM	7693	CZ	TYR	X	506	42.485	29.534	25.844	0.00	0.00
ATOM	7694	OH	TYR	X	506	43.049	28.352	25.679	0.00	0.00
ATOM	7695	HH	TYR	X	506	42.324	27.725	25.634	0.00	0.00
ATOM	7696	CE2	TYR	X	506	43.279	30.640	26.309	0.00	0.00
ATOM	7697	HE2	TYR	X	506	44.316	30.409	26.506	0.00	0.00
ATOM	7698	CD2	TYR	X	506	42.715	31.946	26.380	0.00	0.00
ATOM	7699	HD2	TYR	X	506	43.325	32.768	26.724	0.00	0.00
ATOM	7700	C	TYR	X	506	41.986	34.143	24.051	0.00	0.00
ATOM	7701	O	TYR	X	506	42.043	33.275	23.187	0.00	0.00
ATOM	7702	N	VAL	X	507	43.002	34.946	24.299	0.00	0.00
ATOM	7703	H	VAL	X	507	42.861	35.535	25.108	0.00	0.00
ATOM	7704	CA	VAL	X	507	44.202	35.034	23.377	0.00	0.00

ATOM	7705	HA	VAL	X	507	44.083	34.361	22.528	0.00	0.00
ATOM	7706	CB	VAL	X	507	44.388	36.444	22.768	0.00	0.00
ATOM	7707	HB	VAL	X	507	45.230	36.546	22.084	0.00	0.00
ATOM	7708	CG1	VAL	X	507	43.129	36.580	21.858	0.00	0.00
ATOM	7709	HG11	VAL	X	507	42.922	35.766	21.163	0.00	0.00
ATOM	7710	HG12	VAL	X	507	42.232	36.832	22.424	0.00	0.00
ATOM	7711	HG13	VAL	X	507	43.347	37.414	21.190	0.00	0.00
ATOM	7712	CG2	VAL	X	507	44.610	37.543	23.797	0.00	0.00
ATOM	7713	HG21	VAL	X	507	45.597	37.471	24.253	0.00	0.00
ATOM	7714	HG22	VAL	X	507	44.423	38.514	23.337	0.00	0.00
ATOM	7715	HG23	VAL	X	507	43.859	37.344	24.561	0.00	0.00
ATOM	7716	C	VAL	X	507	45.514	34.650	24.000	0.00	0.00
ATOM	7717	O	VAL	X	507	45.767	34.951	25.147	0.00	0.00
ATOM	7718	N	SER	X	508	46.458	34.034	23.217	0.00	0.00
ATOM	7719	H	SER	X	508	46.278	33.941	22.227	0.00	0.00
ATOM	7720	CA	SER	X	508	47.912	34.039	23.644	0.00	0.00
ATOM	7721	HA	SER	X	508	47.935	34.067	24.733	0.00	0.00
ATOM	7722	CB	SER	X	508	48.655	32.808	23.186	0.00	0.00
ATOM	7723	HB2	SER	X	508	48.445	31.955	23.832	0.00	0.00
ATOM	7724	HB3	SER	X	508	48.217	32.516	22.232	0.00	0.00
ATOM	7725	OG	SER	X	508	50.037	33.010	23.139	0.00	0.00
ATOM	7726	HG	SER	X	508	50.512	32.188	23.280	0.00	0.00
ATOM	7727	C	SER	X	508	48.571	35.345	23.136	0.00	0.00
ATOM	7728	O	SER	X	508	48.494	35.589	21.933	0.00	0.00
ATOM	7729	N	LEU	X	509	49.245	36.143	24.022	0.00	0.00
ATOM	7730	H	LEU	X	509	49.090	35.975	25.006	0.00	0.00
ATOM	7731	CA	LEU	X	509	50.230	37.219	23.758	0.00	0.00
ATOM	7732	HA	LEU	X	509	49.997	37.579	22.756	0.00	0.00
ATOM	7733	CB	LEU	X	509	50.141	38.344	24.869	0.00	0.00
ATOM	7734	HB2	LEU	X	509	50.498	37.998	25.839	0.00	0.00
ATOM	7735	HB3	LEU	X	509	50.812	39.130	24.522	0.00	0.00
ATOM	7736	CG	LEU	X	509	48.765	39.000	25.153	0.00	0.00
ATOM	7737	HG	LEU	X	509	48.096	38.291	25.639	0.00	0.00
ATOM	7738	CD1	LEU	X	509	48.937	40.033	26.267	0.00	0.00
ATOM	7739	HD11	LEU	X	509	47.915	40.295	26.538	0.00	0.00
ATOM	7740	HD12	LEU	X	509	49.533	39.666	27.103	0.00	0.00
ATOM	7741	HD13	LEU	X	509	49.370	40.941	25.846	0.00	0.00
ATOM	7742	CD2	LEU	X	509	48.099	39.654	23.938	0.00	0.00
ATOM	7743	HD21	LEU	X	509	48.792	40.254	23.348	0.00	0.00
ATOM	7744	HD22	LEU	X	509	47.478	39.058	23.269	0.00	0.00
ATOM	7745	HD23	LEU	X	509	47.419	40.424	24.303	0.00	0.00
ATOM	7746	C	LEU	X	509	51.656	36.763	23.821	0.00	0.00
ATOM	7747	O	LEU	X	509	52.019	36.169	24.825	0.00	0.00
ATOM	7748	N	ASP	X	510	52.372	36.989	22.731	0.00	0.00
ATOM	7749	H	ASP	X	510	52.054	37.509	21.925	0.00	0.00
ATOM	7750	CA	ASP	X	510	53.628	36.422	22.475	0.00	0.00
ATOM	7751	HA	ASP	X	510	54.307	36.560	23.317	0.00	0.00
ATOM	7752	CB	ASP	X	510	53.350	34.924	22.147	0.00	0.00
ATOM	7753	HB2	ASP	X	510	52.660	34.595	22.924	0.00	0.00
ATOM	7754	HB3	ASP	X	510	52.810	34.821	21.206	0.00	0.00
ATOM	7755	CG	ASP	X	510	54.639	34.096	22.131	0.00	0.00
ATOM	7756	OD1	ASP	X	510	54.764	33.125	22.911	0.00	0.00
ATOM	7757	OD2	ASP	X	510	55.596	34.368	21.338	0.00	0.00
ATOM	7758	C	ASP	X	510	54.116	37.221	21.255	0.00	0.00
ATOM	7759	O	ASP	X	510	53.299	37.920	20.693	0.00	0.00
ATOM	7760	N	LEU	X	511	55.360	37.073	20.839	0.00	0.00
ATOM	7761	H	LEU	X	511	55.960	36.464	21.377	0.00	0.00
ATOM	7762	CA	LEU	X	511	56.013	37.689	19.681	0.00	0.00
ATOM	7763	HA	LEU	X	511	55.825	38.762	19.667	0.00	0.00
ATOM	7764	CB	LEU	X	511	57.607	37.440	19.757	0.00	0.00
ATOM	7765	HB2	LEU	X	511	57.740	36.392	20.027	0.00	0.00
ATOM	7766	HB3	LEU	X	511	58.051	37.566	18.770	0.00	0.00
ATOM	7767	CG	LEU	X	511	58.388	38.402	20.644	0.00	0.00
ATOM	7768	HG	LEU	X	511	58.546	39.324	20.084	0.00	0.00
ATOM	7769	CD1	LEU	X	511	57.750	38.621	22.073	0.00	0.00
ATOM	7770	HD11	LEU	X	511	57.795	37.650	22.565	0.00	0.00
ATOM	7771	HD12	LEU	X	511	58.347	39.366	22.600	0.00	0.00
ATOM	7772	HD13	LEU	X	511	56.750	39.046	21.989	0.00	0.00
ATOM	7773	CD2	LEU	X	511	59.856	37.848	20.671	0.00	0.00
ATOM	7774	HD21	LEU	X	511	60.221	37.705	19.654	0.00	0.00

ATOM	7775	HD22	LEU	X	511	60.425	38.630	21.174	0.00	0.00
ATOM	7776	HD23	LEU	X	511	60.007	36.987	21.322	0.00	0.00
ATOM	7777	C	LEU	X	511	55.471	37.023	18.424	0.00	0.00
ATOM	7778	O	LEU	X	511	55.486	37.632	17.372	0.00	0.00
ATOM	7779	N	ARG	X	512	54.891	35.822	18.543	0.00	0.00
ATOM	7780	H	ARG	X	512	54.862	35.267	19.386	0.00	0.00
ATOM	7781	CA	ARG	X	512	54.204	35.151	17.477	0.00	0.00
ATOM	7782	HA	ARG	X	512	54.844	35.039	16.602	0.00	0.00
ATOM	7783	CB	ARG	X	512	53.747	33.805	17.934	0.00	0.00
ATOM	7784	HB2	ARG	X	512	53.239	34.015	18.876	0.00	0.00
ATOM	7785	HB3	ARG	X	512	53.115	33.344	17.176	0.00	0.00
ATOM	7786	CG	ARG	X	512	54.886	32.834	18.107	0.00	0.00
ATOM	7787	HG2	ARG	X	512	55.422	32.632	17.180	0.00	0.00
ATOM	7788	HG3	ARG	X	512	55.578	33.142	18.891	0.00	0.00
ATOM	7789	CD	ARG	X	512	54.418	31.528	18.730	0.00	0.00
ATOM	7790	HD2	ARG	X	512	55.237	30.809	18.761	0.00	0.00
ATOM	7791	HD3	ARG	X	512	54.165	31.724	19.772	0.00	0.00
ATOM	7792	NE	ARG	X	512	53.227	31.029	17.998	0.00	0.00
ATOM	7793	HE	ARG	X	512	53.446	30.569	17.126	0.00	0.00
ATOM	7794	CZ	ARG	X	512	52.001	30.840	18.462	0.00	0.00
ATOM	7795	NH1	ARG	X	512	51.569	31.235	19.577	0.00	0.00
ATOM	7796	HH11	ARG	X	512	52.185	31.698	20.230	0.00	0.00
ATOM	7797	HH12	ARG	X	512	50.692	30.842	19.889	0.00	0.00
ATOM	7798	NH2	ARG	X	512	51.078	30.324	17.690	0.00	0.00
ATOM	7799	HH21	ARG	X	512	51.197	29.857	16.802	0.00	0.00
ATOM	7800	HH22	ARG	X	512	50.185	30.142	18.125	0.00	0.00
ATOM	7801	C	ARG	X	512	52.922	35.953	17.123	0.00	0.00
ATOM	7802	O	ARG	X	512	52.388	36.662	18.026	0.00	0.00
ATOM	7803	N	PRO	X	513	52.416	36.042	15.836	0.00	0.00
ATOM	7804	CD	PRO	X	513	53.012	35.443	14.644	0.00	0.00
ATOM	7805	HD2	PRO	X	513	53.009	34.357	14.737	0.00	0.00
ATOM	7806	HD3	PRO	X	513	53.914	35.944	14.294	0.00	0.00
ATOM	7807	CG	PRO	X	513	52.015	35.779	13.572	0.00	0.00
ATOM	7808	HG2	PRO	X	513	51.283	34.972	13.559	0.00	0.00
ATOM	7809	HG3	PRO	X	513	52.434	35.820	12.566	0.00	0.00
ATOM	7810	CB	PRO	X	513	51.413	37.122	13.961	0.00	0.00
ATOM	7811	HB2	PRO	X	513	50.482	37.331	13.434	0.00	0.00
ATOM	7812	HB3	PRO	X	513	52.215	37.835	13.775	0.00	0.00
ATOM	7813	CA	PRO	X	513	51.227	36.790	15.520	0.00	0.00
ATOM	7814	HA	PRO	X	513	51.363	37.731	16.053	0.00	0.00
ATOM	7815	C	PRO	X	513	49.959	36.254	16.041	0.00	0.00
ATOM	7816	O	PRO	X	513	49.830	35.021	16.209	0.00	0.00
ATOM	7817	N	LEU	X	514	49.010	37.189	16.437	0.00	0.00
ATOM	7818	H	LEU	X	514	49.150	38.157	16.186	0.00	0.00
ATOM	7819	CA	LEU	X	514	48.020	36.895	17.495	0.00	0.00
ATOM	7820	HA	LEU	X	514	48.573	36.725	18.418	0.00	0.00
ATOM	7821	CB	LEU	X	514	47.148	38.131	17.598	0.00	0.00
ATOM	7822	HB2	LEU	X	514	47.668	39.057	17.843	0.00	0.00
ATOM	7823	HB3	LEU	X	514	46.734	38.182	16.591	0.00	0.00
ATOM	7824	CG	LEU	X	514	45.994	38.015	18.604	0.00	0.00
ATOM	7825	HG	LEU	X	514	45.283	37.206	18.434	0.00	0.00
ATOM	7826	CD1	LEU	X	514	46.541	38.063	20.026	0.00	0.00
ATOM	7827	HD11	LEU	X	514	47.058	37.155	20.337	0.00	0.00
ATOM	7828	HD12	LEU	X	514	47.110	38.992	20.059	0.00	0.00
ATOM	7829	HD13	LEU	X	514	45.661	38.171	20.659	0.00	0.00
ATOM	7830	CD2	LEU	X	514	45.158	39.227	18.359	0.00	0.00
ATOM	7831	HD21	LEU	X	514	45.740	40.123	18.141	0.00	0.00
ATOM	7832	HD22	LEU	X	514	44.563	38.951	17.489	0.00	0.00
ATOM	7833	HD23	LEU	X	514	44.421	39.335	19.155	0.00	0.00
ATOM	7834	C	LEU	X	514	47.213	35.594	17.247	0.00	0.00
ATOM	7835	O	LEU	X	514	46.567	35.524	16.216	0.00	0.00
ATOM	7836	N	GLU	X	515	47.352	34.769	18.239	0.00	0.00
ATOM	7837	H	GLU	X	515	47.974	35.019	18.995	0.00	0.00
ATOM	7838	CA	GLU	X	515	46.775	33.526	18.387	0.00	0.00
ATOM	7839	HA	GLU	X	515	46.446	33.171	17.411	0.00	0.00
ATOM	7840	CB	GLU	X	515	47.795	32.451	18.901	0.00	0.00
ATOM	7841	HB2	GLU	X	515	48.820	32.574	18.551	0.00	0.00
ATOM	7842	HB3	GLU	X	515	47.776	32.442	19.990	0.00	0.00
ATOM	7843	CG	GLU	X	515	47.309	31.078	18.412	0.00	0.00
ATOM	7844	HG2	GLU	X	515	46.244	30.899	18.559	0.00	0.00

ATOM	7845	HG3	GLU	X	515	47.556	30.894	17.367	0.00	0.00
ATOM	7846	CD	GLU	X	515	47.912	29.967	19.306	0.00	0.00
ATOM	7847	OE1	GLU	X	515	49.067	30.074	19.747	0.00	0.00
ATOM	7848	OE2	GLU	X	515	47.262	28.976	19.670	0.00	0.00
ATOM	7849	C	GLU	X	515	45.511	33.638	19.233	0.00	0.00
ATOM	7850	O	GLU	X	515	45.602	33.752	20.427	0.00	0.00
ATOM	7851	N	VAL	X	516	44.342	33.560	18.580	0.00	0.00
ATOM	7852	H	VAL	X	516	44.355	33.425	17.579	0.00	0.00
ATOM	7853	CA	VAL	X	516	43.080	33.290	19.309	0.00	0.00
ATOM	7854	HA	VAL	X	516	43.101	33.795	20.275	0.00	0.00
ATOM	7855	CB	VAL	X	516	41.894	33.860	18.537	0.00	0.00
ATOM	7856	HB	VAL	X	516	41.750	33.398	17.560	0.00	0.00
ATOM	7857	CG1	VAL	X	516	40.603	33.693	19.414	0.00	0.00
ATOM	7858	HG11	VAL	X	516	40.855	33.929	20.448	0.00	0.00
ATOM	7859	HG12	VAL	X	516	39.761	34.293	19.068	0.00	0.00
ATOM	7860	HG13	VAL	X	516	40.286	32.651	19.388	0.00	0.00
ATOM	7861	CG2	VAL	X	516	42.136	35.321	18.293	0.00	0.00
ATOM	7862	HG21	VAL	X	516	42.847	35.516	17.491	0.00	0.00
ATOM	7863	HG22	VAL	X	516	41.201	35.808	18.015	0.00	0.00
ATOM	7864	HG23	VAL	X	516	42.658	35.845	19.094	0.00	0.00
ATOM	7865	C	VAL	X	516	42.870	31.766	19.531	0.00	0.00
ATOM	7866	O	VAL	X	516	43.215	30.958	18.660	0.00	0.00
ATOM	7867	N	ARG	X	517	42.320	31.518	20.740	0.00	0.00
ATOM	7868	H	ARG	X	517	42.163	32.346	21.298	0.00	0.00
ATOM	7869	CA	ARG	X	517	41.967	30.233	21.332	0.00	0.00
ATOM	7870	HA	ARG	X	517	42.049	29.494	20.535	0.00	0.00
ATOM	7871	CB	ARG	X	517	42.931	29.831	22.404	0.00	0.00
ATOM	7872	HB2	ARG	X	517	43.026	30.630	23.139	0.00	0.00
ATOM	7873	HB3	ARG	X	517	42.739	28.844	22.825	0.00	0.00
ATOM	7874	CG	ARG	X	517	44.350	29.702	21.813	0.00	0.00
ATOM	7875	HG2	ARG	X	517	44.450	28.810	21.194	0.00	0.00
ATOM	7876	HG3	ARG	X	517	44.546	30.568	21.181	0.00	0.00
ATOM	7877	CD	ARG	X	517	45.371	29.586	23.043	0.00	0.00
ATOM	7878	HD2	ARG	X	517	45.172	30.538	23.536	0.00	0.00
ATOM	7879	HD3	ARG	X	517	45.019	28.758	23.659	0.00	0.00
ATOM	7880	NE	ARG	X	517	46.697	29.406	22.489	0.00	0.00
ATOM	7881	HE	ARG	X	517	46.768	29.242	21.495	0.00	0.00
ATOM	7882	CZ	ARG	X	517	47.871	29.443	23.125	0.00	0.00
ATOM	7883	NH1	ARG	X	517	48.023	29.435	24.440	0.00	0.00
ATOM	7884	HH11	ARG	X	517	47.278	29.094	25.031	0.00	0.00
ATOM	7885	HH12	ARG	X	517	48.969	29.543	24.776	0.00	0.00
ATOM	7886	NH2	ARG	X	517	48.974	29.429	22.442	0.00	0.00
ATOM	7887	HH21	ARG	X	517	49.016	29.572	21.443	0.00	0.00
ATOM	7888	HH22	ARG	X	517	49.780	29.441	23.050	0.00	0.00
ATOM	7889	C	ARG	X	517	40.519	30.225	21.850	0.00	0.00
ATOM	7890	O	ARG	X	517	39.902	31.276	22.034	0.00	0.00
ATOM	7891	N	ARG	X	518	39.980	29.066	22.126	0.00	0.00
ATOM	7892	H	ARG	X	518	40.523	28.215	22.150	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.525	28.881	22.515	0.00	0.00
ATOM	7894	HA	ARG	X	518	38.128	29.858	22.791	0.00	0.00
ATOM	7895	CB	ARG	X	518	37.856	28.360	21.223	0.00	0.00
ATOM	7896	HB2	ARG	X	518	37.949	29.092	20.420	0.00	0.00
ATOM	7897	HB3	ARG	X	518	38.306	27.398	20.979	0.00	0.00
ATOM	7898	CG	ARG	X	518	36.309	28.182	21.433	0.00	0.00
ATOM	7899	HG2	ARG	X	518	36.110	27.556	22.303	0.00	0.00
ATOM	7900	HG3	ARG	X	518	35.757	29.070	21.742	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.471	27.579	20.292	0.00	0.00
ATOM	7902	HD2	ARG	X	518	36.069	26.850	19.745	0.00	0.00
ATOM	7903	HD3	ARG	X	518	34.536	27.123	20.615	0.00	0.00
ATOM	7904	NE	ARG	X	518	35.015	28.560	19.236	0.00	0.00
ATOM	7905	HE	ARG	X	518	35.367	29.503	19.326	0.00	0.00
ATOM	7906	CZ	ARG	X	518	34.063	28.356	18.342	0.00	0.00
ATOM	7907	NH1	ARG	X	518	33.413	27.303	18.146	0.00	0.00
ATOM	7908	HH11	ARG	X	518	33.681	26.468	18.647	0.00	0.00
ATOM	7909	HH12	ARG	X	518	32.679	27.238	17.455	0.00	0.00
ATOM	7910	NH2	ARG	X	518	33.700	29.370	17.619	0.00	0.00
ATOM	7911	HH21	ARG	X	518	34.180	30.250	17.746	0.00	0.00
ATOM	7912	HH22	ARG	X	518	32.864	29.304	17.057	0.00	0.00
ATOM	7913	C	ARG	X	518	38.356	27.966	23.708	0.00	0.00
ATOM	7914	O	ARG	X	518	39.161	27.113	23.986	0.00	0.00

ATOM	7915	N	GLY	X	519	37.247	28.080	24.500	0.00	0.00
ATOM	7916	H	GLY	X	519	36.661	28.890	24.357	0.00	0.00
ATOM	7917	CA	GLY	X	519	36.844	27.130	25.557	0.00	0.00
ATOM	7918	HA2	GLY	X	519	35.754	27.246	25.638	0.00	0.00
ATOM	7919	HA3	GLY	X	519	37.087	26.131	25.184	0.00	0.00
ATOM	7920	C	GLY	X	519	37.574	27.335	26.884	0.00	0.00
ATOM	7921	O	GLY	X	519	37.587	26.369	27.661	0.00	0.00
ATOM	7922	N	LEU	X	520	38.025	28.579	27.105	0.00	0.00
ATOM	7923	H	LEU	X	520	37.815	29.299	26.429	0.00	0.00
ATOM	7924	CA	LEU	X	520	39.012	28.898	28.199	0.00	0.00
ATOM	7925	HA	LEU	X	520	40.032	28.805	27.828	0.00	0.00
ATOM	7926	CB	LEU	X	520	38.960	30.459	28.633	0.00	0.00
ATOM	7927	HB2	LEU	X	520	39.085	31.165	27.813	0.00	0.00
ATOM	7928	HB3	LEU	X	520	37.936	30.683	28.932	0.00	0.00
ATOM	7929	CG	LEU	X	520	39.881	30.789	29.817	0.00	0.00
ATOM	7930	HG	LEU	X	520	39.824	30.044	30.610	0.00	0.00
ATOM	7931	CD1	LEU	X	520	41.454	30.762	29.530	0.00	0.00
ATOM	7932	HD11	LEU	X	520	41.885	31.533	28.891	0.00	0.00
ATOM	7933	HD12	LEU	X	520	41.876	30.929	30.521	0.00	0.00
ATOM	7934	HD13	LEU	X	520	41.711	29.760	29.189	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.437	32.090	30.449	0.00	0.00
ATOM	7936	HD21	LEU	X	520	39.551	32.959	29.801	0.00	0.00
ATOM	7937	HD22	LEU	X	520	38.397	32.015	30.769	0.00	0.00
ATOM	7938	HD23	LEU	X	520	40.070	32.197	31.329	0.00	0.00
ATOM	7939	C	LEU	X	520	39.011	28.019	29.425	0.00	0.00
ATOM	7940	O	LEU	X	520	38.122	28.128	30.244	0.00	0.00
ATOM	7941	N	ARG	X	521	40.030	27.122	29.485	0.00	0.00
ATOM	7942	H	ARG	X	521	40.796	27.215	28.834	0.00	0.00
ATOM	7943	CA	ARG	X	521	40.309	26.211	30.554	0.00	0.00
ATOM	7944	HA	ARG	X	521	41.180	25.623	30.264	0.00	0.00
ATOM	7945	CB	ARG	X	521	40.881	27.040	31.667	0.00	0.00
ATOM	7946	HB2	ARG	X	521	41.401	27.883	31.212	0.00	0.00
ATOM	7947	HB3	ARG	X	521	40.098	27.407	32.330	0.00	0.00
ATOM	7948	CG	ARG	X	521	41.883	26.341	32.632	0.00	0.00
ATOM	7949	HG2	ARG	X	521	42.298	27.079	33.318	0.00	0.00
ATOM	7950	HG3	ARG	X	521	41.304	25.708	33.304	0.00	0.00
ATOM	7951	CD	ARG	X	521	43.006	25.614	31.930	0.00	0.00
ATOM	7952	HD2	ARG	X	521	42.511	24.858	31.320	0.00	0.00
ATOM	7953	HD3	ARG	X	521	43.602	26.316	31.348	0.00	0.00
ATOM	7954	NE	ARG	X	521	43.960	24.957	32.805	0.00	0.00
ATOM	7955	HE	ARG	X	521	43.915	25.247	33.771	0.00	0.00
ATOM	7956	CZ	ARG	X	521	44.648	23.879	32.489	0.00	0.00
ATOM	7957	NH1	ARG	X	521	44.925	23.489	31.261	0.00	0.00
ATOM	7958	HH11	ARG	X	521	44.498	24.020	30.516	0.00	0.00
ATOM	7959	HH12	ARG	X	521	45.523	22.705	31.043	0.00	0.00
ATOM	7960	NH2	ARG	X	521	45.228	23.222	33.486	0.00	0.00
ATOM	7961	HH21	ARG	X	521	45.052	23.502	34.441	0.00	0.00
ATOM	7962	HH22	ARG	X	521	45.738	22.361	33.347	0.00	0.00
ATOM	7963	C	ARG	X	521	39.234	25.197	31.111	0.00	0.00
ATOM	7964	O	ARG	X	521	39.472	24.484	32.051	0.00	0.00
ATOM	7965	N	ALA	X	522	37.983	25.256	30.540	0.00	0.00
ATOM	7966	H	ALA	X	522	38.023	25.905	29.767	0.00	0.00
ATOM	7967	CA	ALA	X	522	36.693	24.650	30.963	0.00	0.00
ATOM	7968	HA	ALA	X	522	36.216	25.092	31.837	0.00	0.00
ATOM	7969	CB	ALA	X	522	35.703	24.769	29.810	0.00	0.00
ATOM	7970	HB1	ALA	X	522	35.666	25.807	29.480	0.00	0.00
ATOM	7971	HB2	ALA	X	522	36.041	24.086	29.030	0.00	0.00
ATOM	7972	HB3	ALA	X	522	34.662	24.594	30.083	0.00	0.00
ATOM	7973	C	ALA	X	522	36.978	23.150	31.389	0.00	0.00
ATOM	7974	O	ALA	X	522	36.604	22.809	32.530	0.00	0.00
ATOM	7975	N	GLN	X	523	37.677	22.360	30.557	0.00	0.00
ATOM	7976	H	GLN	X	523	38.009	22.782	29.701	0.00	0.00
ATOM	7977	CA	GLN	X	523	37.877	20.882	30.787	0.00	0.00
ATOM	7978	HA	GLN	X	523	36.926	20.442	31.089	0.00	0.00
ATOM	7979	CB	GLN	X	523	38.383	20.267	29.427	0.00	0.00
ATOM	7980	HB2	GLN	X	523	39.385	20.612	29.171	0.00	0.00
ATOM	7981	HB3	GLN	X	523	38.256	19.185	29.432	0.00	0.00
ATOM	7982	CG	GLN	X	523	37.601	20.694	28.199	0.00	0.00
ATOM	7983	HG2	GLN	X	523	37.806	21.744	27.994	0.00	0.00
ATOM	7984	HG3	GLN	X	523	37.975	20.013	27.434	0.00	0.00

ATOM	7985	CD	GLN	X	523	36.060	20.438	28.335	0.00	0.00
ATOM	7986	OE1	GLN	X	523	35.308	21.379	28.482	0.00	0.00
ATOM	7987	NE2	GLN	X	523	35.623	19.216	28.220	0.00	0.00
ATOM	7988	HE21	GLN	X	523	34.621	19.092	28.227	0.00	0.00
ATOM	7989	HE22	GLN	X	523	36.223	18.408	28.298	0.00	0.00
ATOM	7990	C	GLN	X	523	38.871	20.611	31.927	0.00	0.00
ATOM	7991	O	GLN	X	523	38.790	19.500	32.540	0.00	0.00
ATOM	7992	N	ALA	X	524	39.817	21.443	32.207	0.00	0.00
ATOM	7993	H	ALA	X	524	39.794	22.288	31.653	0.00	0.00
ATOM	7994	CA	ALA	X	524	40.658	21.359	33.405	0.00	0.00
ATOM	7995	HA	ALA	X	524	40.936	20.336	33.661	0.00	0.00
ATOM	7996	CB	ALA	X	524	41.896	22.131	33.251	0.00	0.00
ATOM	7997	HB1	ALA	X	524	42.454	22.126	34.187	0.00	0.00
ATOM	7998	HB2	ALA	X	524	42.489	21.684	32.453	0.00	0.00
ATOM	7999	HB3	ALA	X	524	41.656	23.148	32.943	0.00	0.00
ATOM	8000	C	ALA	X	524	39.823	21.838	34.677	0.00	0.00
ATOM	8001	O	ALA	X	524	39.610	20.983	35.588	0.00	0.00
ATOM	8002	N	CYX	X	525	39.301	23.071	34.695	0.00	0.00
ATOM	8003	H	CYX	X	525	39.323	23.565	33.814	0.00	0.00
ATOM	8004	CA	CYX	X	525	38.338	23.641	35.711	0.00	0.00
ATOM	8005	HA	CYX	X	525	38.829	23.854	36.660	0.00	0.00
ATOM	8006	CB	CYX	X	525	37.859	25.000	35.170	0.00	0.00
ATOM	8007	HB2	CYX	X	525	37.355	24.823	34.221	0.00	0.00
ATOM	8008	HB3	CYX	X	525	37.099	25.286	35.896	0.00	0.00
ATOM	8009	SG	CYX	X	525	39.119	26.190	34.828	0.00	0.00
ATOM	8010	C	CYX	X	525	37.161	22.652	36.145	0.00	0.00
ATOM	8011	O	CYX	X	525	36.720	22.671	37.306	0.00	0.00
ATOM	8012	N	ALA	X	526	36.824	21.758	35.256	0.00	0.00
ATOM	8013	H	ALA	X	526	37.171	21.911	34.320	0.00	0.00
ATOM	8014	CA	ALA	X	526	35.621	20.884	35.375	0.00	0.00
ATOM	8015	HA	ALA	X	526	34.719	21.466	35.564	0.00	0.00
ATOM	8016	CB	ALA	X	526	35.475	19.955	34.199	0.00	0.00
ATOM	8017	HB1	ALA	X	526	34.940	20.490	33.415	0.00	0.00
ATOM	8018	HB2	ALA	X	526	36.458	19.766	33.767	0.00	0.00
ATOM	8019	HB3	ALA	X	526	35.051	18.972	34.404	0.00	0.00
ATOM	8020	C	ALA	X	526	35.726	19.922	36.573	0.00	0.00
ATOM	8021	O	ALA	X	526	34.756	19.716	37.380	0.00	0.00
ATOM	8022	N	PHE	X	527	36.912	19.287	36.719	0.00	0.00
ATOM	8023	H	PHE	X	527	37.686	19.476	36.099	0.00	0.00
ATOM	8024	CA	PHE	X	527	37.290	18.433	37.904	0.00	0.00
ATOM	8025	HA	PHE	X	527	36.613	17.584	37.991	0.00	0.00
ATOM	8026	CB	PHE	X	527	38.742	18.025	37.759	0.00	0.00
ATOM	8027	HB2	PHE	X	527	38.785	17.483	36.814	0.00	0.00
ATOM	8028	HB3	PHE	X	527	39.355	18.901	37.547	0.00	0.00
ATOM	8029	CG	PHE	X	527	39.314	17.278	38.923	0.00	0.00
ATOM	8030	CD1	PHE	X	527	39.161	15.865	39.023	0.00	0.00
ATOM	8031	HD1	PHE	X	527	38.489	15.392	38.322	0.00	0.00
ATOM	8032	CE1	PHE	X	527	39.794	15.150	40.090	0.00	0.00
ATOM	8033	HE1	PHE	X	527	39.669	14.090	40.256	0.00	0.00
ATOM	8034	CZ	PHE	X	527	40.525	15.892	41.063	0.00	0.00
ATOM	8035	HZ	PHE	X	527	40.977	15.311	41.854	0.00	0.00
ATOM	8036	CE2	PHE	X	527	40.697	17.284	40.887	0.00	0.00
ATOM	8037	HE2	PHE	X	527	41.252	17.919	41.561	0.00	0.00
ATOM	8038	CD2	PHE	X	527	40.170	17.964	39.800	0.00	0.00
ATOM	8039	HD2	PHE	X	527	40.310	19.027	39.674	0.00	0.00
ATOM	8040	C	PHE	X	527	37.097	19.240	39.275	0.00	0.00
ATOM	8041	O	PHE	X	527	36.634	18.689	40.295	0.00	0.00
ATOM	8042	N	TRP	X	528	37.574	20.464	39.312	0.00	0.00
ATOM	8043	H	TRP	X	528	38.210	20.640	38.547	0.00	0.00
ATOM	8044	CA	TRP	X	528	37.663	21.242	40.559	0.00	0.00
ATOM	8045	HA	TRP	X	528	38.037	20.694	41.424	0.00	0.00
ATOM	8046	CB	TRP	X	528	38.549	22.494	40.363	0.00	0.00
ATOM	8047	HB2	TRP	X	528	38.089	23.001	39.514	0.00	0.00
ATOM	8048	HB3	TRP	X	528	38.394	23.130	41.234	0.00	0.00
ATOM	8049	CG	TRP	X	528	39.914	22.186	40.018	0.00	0.00
ATOM	8050	CD1	TRP	X	528	40.444	22.239	38.833	0.00	0.00
ATOM	8051	HD1	TRP	X	528	40.010	22.642	37.930	0.00	0.00
ATOM	8052	NE1	TRP	X	528	41.791	21.872	38.851	0.00	0.00
ATOM	8053	HE1	TRP	X	528	42.458	21.862	38.093	0.00	0.00
ATOM	8054	CE2	TRP	X	528	42.113	21.412	40.090	0.00	0.00

ATOM	8055	CZ2	TRP	X	528	43.238	20.739	40.601	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	44.144	20.635	40.022	0.00	0.00
ATOM	8057	CH2	TRP	X	528	43.182	20.284	41.920	0.00	0.00
ATOM	8058	HH2	TRP	X	528	43.997	19.753	42.391	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	42.202	20.676	42.762	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	42.326	20.459	43.813	0.00	0.00
ATOM	8061	CE3	TRP	X	528	41.038	21.375	42.300	0.00	0.00
ATOM	8062	HE3	TRP	X	528	40.247	21.692	42.964	0.00	0.00
ATOM	8063	CD2	TRP	X	528	40.917	21.665	40.890	0.00	0.00
ATOM	8064	C	TRP	X	528	36.250	21.616	41.056	0.00	0.00
ATOM	8065	O	TRP	X	528	36.175	22.020	42.230	0.00	0.00
ATOM	8066	N	ASN	X	529	35.211	21.390	40.302	0.00	0.00
ATOM	8067	H	ASN	X	529	35.374	20.926	39.420	0.00	0.00
ATOM	8068	CA	ASN	X	529	33.851	21.922	40.656	0.00	0.00
ATOM	8069	HA	ASN	X	529	33.713	22.284	41.675	0.00	0.00
ATOM	8070	CB	ASN	X	529	33.517	23.084	39.782	0.00	0.00
ATOM	8071	HB2	ASN	X	529	33.546	22.827	38.723	0.00	0.00
ATOM	8072	HB3	ASN	X	529	32.504	23.405	40.027	0.00	0.00
ATOM	8073	CG	ASN	X	529	34.361	24.348	39.976	0.00	0.00
ATOM	8074	OD1	ASN	X	529	33.873	25.290	40.651	0.00	0.00
ATOM	8075	ND2	ASN	X	529	35.589	24.350	39.492	0.00	0.00
ATOM	8076	HD21	ASN	X	529	36.211	25.125	39.671	0.00	0.00
ATOM	8077	HD22	ASN	X	529	35.921	23.524	39.016	0.00	0.00
ATOM	8078	C	ASN	X	529	32.749	20.856	40.595	0.00	0.00
ATOM	8079	O	ASN	X	529	31.931	20.769	41.488	0.00	0.00
ATOM	8080	N	ARG	X	530	32.779	20.025	39.582	0.00	0.00
ATOM	8081	H	ARG	X	530	33.568	20.141	38.963	0.00	0.00
ATOM	8082	CA	ARG	X	530	31.812	18.899	39.311	0.00	0.00
ATOM	8083	HA	ARG	X	530	30.832	19.289	39.588	0.00	0.00
ATOM	8084	CB	ARG	X	530	31.881	18.526	37.862	0.00	0.00
ATOM	8085	HB2	ARG	X	530	32.850	18.246	37.451	0.00	0.00
ATOM	8086	HB3	ARG	X	530	31.068	17.806	37.758	0.00	0.00
ATOM	8087	CG	ARG	X	530	31.347	19.640	36.921	0.00	0.00
ATOM	8088	HG2	ARG	X	530	30.324	19.986	37.070	0.00	0.00
ATOM	8089	HG3	ARG	X	530	32.003	20.492	37.098	0.00	0.00
ATOM	8090	CD	ARG	X	530	31.517	19.322	35.483	0.00	0.00
ATOM	8091	HD2	ARG	X	530	32.582	19.104	35.405	0.00	0.00
ATOM	8092	HD3	ARG	X	530	30.846	18.533	35.142	0.00	0.00
ATOM	8093	NE	ARG	X	530	31.107	20.548	34.785	0.00	0.00
ATOM	8094	HE	ARG	X	530	30.714	21.304	35.328	0.00	0.00
ATOM	8095	CZ	ARG	X	530	31.164	20.643	33.498	0.00	0.00
ATOM	8096	NH1	ARG	X	530	31.720	19.764	32.660	0.00	0.00
ATOM	8097	HH11	ARG	X	530	32.038	18.912	33.098	0.00	0.00
ATOM	8098	HH12	ARG	X	530	31.916	20.024	31.704	0.00	0.00
ATOM	8099	NH2	ARG	X	530	30.923	21.850	33.038	0.00	0.00
ATOM	8100	HH21	ARG	X	530	30.701	22.577	33.704	0.00	0.00
ATOM	8101	HH22	ARG	X	530	31.095	22.127	32.083	0.00	0.00
ATOM	8102	C	ARG	X	530	32.153	17.735	40.248	0.00	0.00
ATOM	8103	O	ARG	X	530	31.327	17.088	40.844	0.00	0.00
ATOM	8104	N	PHE	X	531	33.488	17.451	40.408	0.00	0.00
ATOM	8105	H	PHE	X	531	34.076	17.974	39.775	0.00	0.00
ATOM	8106	CA	PHE	X	531	33.900	16.252	41.160	0.00	0.00
ATOM	8107	HA	PHE	X	531	33.014	15.676	41.426	0.00	0.00
ATOM	8108	CB	PHE	X	531	34.868	15.336	40.335	0.00	0.00
ATOM	8109	HB2	PHE	X	531	34.383	15.016	39.412	0.00	0.00
ATOM	8110	HB3	PHE	X	531	35.707	15.967	40.041	0.00	0.00
ATOM	8111	CG	PHE	X	531	35.498	14.209	41.117	0.00	0.00
ATOM	8112	CD1	PHE	X	531	34.918	12.932	41.150	0.00	0.00
ATOM	8113	HD1	PHE	X	531	34.014	12.699	40.607	0.00	0.00
ATOM	8114	CE1	PHE	X	531	35.512	11.839	41.832	0.00	0.00
ATOM	8115	HE1	PHE	X	531	35.050	10.863	41.860	0.00	0.00
ATOM	8116	CZ	PHE	X	531	36.754	12.120	42.411	0.00	0.00
ATOM	8117	HZ	PHE	X	531	37.181	11.274	42.929	0.00	0.00
ATOM	8118	CE2	PHE	X	531	37.472	13.327	42.363	0.00	0.00
ATOM	8119	HE2	PHE	X	531	38.461	13.441	42.783	0.00	0.00
ATOM	8120	CD2	PHE	X	531	36.817	14.395	41.736	0.00	0.00
ATOM	8121	HD2	PHE	X	531	37.303	15.338	41.538	0.00	0.00
ATOM	8122	C	PHE	X	531	34.551	16.567	42.468	0.00	0.00
ATOM	8123	O	PHE	X	531	34.128	15.957	43.415	0.00	0.00
ATOM	8124	N	LEU	X	532	35.553	17.395	42.560	0.00	0.00

ATOM	8125	H	LEU	X	532	35.884	17.892	41.745	0.00	0.00
ATOM	8126	CA	LEU	X	532	36.443	17.505	43.793	0.00	0.00
ATOM	8127	HA	LEU	X	532	36.944	16.583	44.086	0.00	0.00
ATOM	8128	CB	LEU	X	532	37.557	18.558	43.518	0.00	0.00
ATOM	8129	HB2	LEU	X	532	37.905	18.399	42.497	0.00	0.00
ATOM	8130	HB3	LEU	X	532	37.273	19.609	43.558	0.00	0.00
ATOM	8131	CG	LEU	X	532	38.816	18.461	44.446	0.00	0.00
ATOM	8132	HG	LEU	X	532	39.633	18.924	43.894	0.00	0.00
ATOM	8133	CD1	LEU	X	532	38.739	19.281	45.725	0.00	0.00
ATOM	8134	HD11	LEU	X	532	37.793	19.213	46.263	0.00	0.00
ATOM	8135	HD12	LEU	X	532	39.553	18.994	46.390	0.00	0.00
ATOM	8136	HD13	LEU	X	532	38.944	20.337	45.553	0.00	0.00
ATOM	8137	CD2	LEU	X	532	39.330	17.014	44.657	0.00	0.00
ATOM	8138	HD21	LEU	X	532	39.080	16.429	43.772	0.00	0.00
ATOM	8139	HD22	LEU	X	532	40.364	16.972	44.998	0.00	0.00
ATOM	8140	HD23	LEU	X	532	38.734	16.617	45.479	0.00	0.00
ATOM	8141	C	LEU	X	532	35.636	17.832	45.062	0.00	0.00
ATOM	8142	O	LEU	X	532	35.929	17.220	46.087	0.00	0.00
ATOM	8143	N	PRO	X	533	34.719	18.846	45.049	0.00	0.00
ATOM	8144	CD	PRO	X	533	34.444	19.831	43.998	0.00	0.00
ATOM	8145	HD2	PRO	X	533	33.646	19.500	43.334	0.00	0.00
ATOM	8146	HD3	PRO	X	533	35.299	20.119	43.386	0.00	0.00
ATOM	8147	CG	PRO	X	533	33.789	20.980	44.722	0.00	0.00
ATOM	8148	HG2	PRO	X	533	33.140	21.489	44.009	0.00	0.00
ATOM	8149	HG3	PRO	X	533	34.567	21.627	45.128	0.00	0.00
ATOM	8150	CB	PRO	X	533	32.905	20.273	45.827	0.00	0.00
ATOM	8151	HB2	PRO	X	533	31.949	19.924	45.438	0.00	0.00
ATOM	8152	HB3	PRO	X	533	32.804	20.909	46.707	0.00	0.00
ATOM	8153	CA	PRO	X	533	33.802	19.060	46.208	0.00	0.00
ATOM	8154	HA	PRO	X	533	34.500	19.297	47.010	0.00	0.00
ATOM	8155	C	PRO	X	533	32.960	17.846	46.630	0.00	0.00
ATOM	8156	O	PRO	X	533	32.748	17.689	47.778	0.00	0.00
ATOM	8157	N	LYS	X	534	32.638	16.828	45.775	0.00	0.00
ATOM	8158	H	LYS	X	534	32.981	16.839	44.825	0.00	0.00
ATOM	8159	CA	LYS	X	534	31.892	15.586	46.103	0.00	0.00
ATOM	8160	HA	LYS	X	534	31.037	15.935	46.683	0.00	0.00
ATOM	8161	CB	LYS	X	534	31.197	14.944	44.907	0.00	0.00
ATOM	8162	HB2	LYS	X	534	31.884	14.773	44.078	0.00	0.00
ATOM	8163	HB3	LYS	X	534	30.848	13.941	45.156	0.00	0.00
ATOM	8164	CG	LYS	X	534	30.086	15.743	44.324	0.00	0.00
ATOM	8165	HG2	LYS	X	534	29.308	15.822	45.084	0.00	0.00
ATOM	8166	HG3	LYS	X	534	30.227	16.809	44.145	0.00	0.00
ATOM	8167	CD	LYS	X	534	29.653	14.986	43.024	0.00	0.00
ATOM	8168	HD2	LYS	X	534	30.473	15.215	42.344	0.00	0.00
ATOM	8169	HD3	LYS	X	534	29.756	13.902	43.053	0.00	0.00
ATOM	8170	CE	LYS	X	534	28.371	15.479	42.484	0.00	0.00
ATOM	8171	HE2	LYS	X	534	28.059	14.930	41.595	0.00	0.00
ATOM	8172	HE3	LYS	X	534	27.616	15.375	43.263	0.00	0.00
ATOM	8173	NZ	LYS	X	534	28.516	16.944	42.306	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	28.314	17.474	43.142	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	29.395	17.217	41.889	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	27.835	17.329	41.668	0.00	0.00
ATOM	8177	C	LYS	X	534	32.627	14.659	46.982	0.00	0.00
ATOM	8178	O	LYS	X	534	31.980	13.843	47.659	0.00	0.00
ATOM	8179	N	LEU	X	535	34.021	14.700	46.934	0.00	0.00
ATOM	8180	H	LEU	X	535	34.362	15.211	46.132	0.00	0.00
ATOM	8181	CA	LEU	X	535	34.925	14.142	47.912	0.00	0.00
ATOM	8182	HA	LEU	X	535	34.504	13.187	48.222	0.00	0.00
ATOM	8183	CB	LEU	X	535	36.290	14.046	47.294	0.00	0.00
ATOM	8184	HB2	LEU	X	535	36.634	15.035	46.992	0.00	0.00
ATOM	8185	HB3	LEU	X	535	36.962	13.738	48.095	0.00	0.00
ATOM	8186	CG	LEU	X	535	36.317	13.006	46.207	0.00	0.00
ATOM	8187	HG	LEU	X	535	35.744	13.316	45.333	0.00	0.00
ATOM	8188	CD1	LEU	X	535	37.786	12.712	45.675	0.00	0.00
ATOM	8189	HD11	LEU	X	535	38.130	13.531	45.043	0.00	0.00
ATOM	8190	HD12	LEU	X	535	38.519	12.547	46.465	0.00	0.00
ATOM	8191	HD13	LEU	X	535	37.798	11.861	44.994	0.00	0.00
ATOM	8192	CD2	LEU	X	535	35.728	11.587	46.605	0.00	0.00
ATOM	8193	HD21	LEU	X	535	36.058	11.207	47.572	0.00	0.00
ATOM	8194	HD22	LEU	X	535	34.657	11.789	46.625	0.00	0.00

ATOM	8195	HD23	LEU	X	535	35.795	10.839	45.815	0.00	0.00
ATOM	8196	C	LEU	X	535	34.910	14.963	49.221	0.00	0.00
ATOM	8197	O	LEU	X	535	35.164	14.233	50.182	0.00	0.00
ATOM	8198	N	LEU	X	536	34.801	16.279	49.252	0.00	0.00
ATOM	8199	H	LEU	X	536	34.624	16.676	48.340	0.00	0.00
ATOM	8200	CA	LEU	X	536	34.981	17.177	50.402	0.00	0.00
ATOM	8201	HA	LEU	X	536	35.794	16.777	51.009	0.00	0.00
ATOM	8202	CB	LEU	X	536	35.201	18.651	49.891	0.00	0.00
ATOM	8203	HB2	LEU	X	536	34.329	19.011	49.344	0.00	0.00
ATOM	8204	HB3	LEU	X	536	35.168	19.265	50.791	0.00	0.00
ATOM	8205	CG	LEU	X	536	36.505	19.084	49.171	0.00	0.00
ATOM	8206	HG	LEU	X	536	36.634	18.461	48.286	0.00	0.00
ATOM	8207	CD1	LEU	X	536	36.487	20.570	48.790	0.00	0.00
ATOM	8208	HD11	LEU	X	536	36.958	20.676	47.813	0.00	0.00
ATOM	8209	HD12	LEU	X	536	35.475	20.837	48.484	0.00	0.00
ATOM	8210	HD13	LEU	X	536	36.971	21.163	49.566	0.00	0.00
ATOM	8211	CD2	LEU	X	536	37.758	18.694	50.035	0.00	0.00
ATOM	8212	HD21	LEU	X	536	37.730	19.021	51.074	0.00	0.00
ATOM	8213	HD22	LEU	X	536	37.782	17.609	50.139	0.00	0.00
ATOM	8214	HD23	LEU	X	536	38.688	19.024	49.572	0.00	0.00
ATOM	8215	C	LEU	X	536	33.720	17.122	51.281	0.00	0.00
ATOM	8216	O	LEU	X	536	33.863	16.981	52.506	0.00	0.00
ATOM	8217	N	SER	X	537	32.613	17.015	50.656	0.00	0.00
ATOM	8218	H	SER	X	537	32.603	17.225	49.668	0.00	0.00
ATOM	8219	CA	SER	X	537	31.403	16.562	51.315	0.00	0.00
ATOM	8220	HA	SER	X	537	31.245	17.102	52.249	0.00	0.00
ATOM	8221	CB	SER	X	537	30.193	16.943	50.424	0.00	0.00
ATOM	8222	HB2	SER	X	537	29.327	16.504	50.920	0.00	0.00
ATOM	8223	HB3	SER	X	537	30.222	18.012	50.216	0.00	0.00
ATOM	8224	OG	SER	X	537	30.270	16.309	49.164	0.00	0.00
ATOM	8225	HG	SER	X	537	29.733	16.882	48.611	0.00	0.00
ATOM	8226	C	SER	X	537	31.484	15.131	51.789	0.00	0.00
ATOM	8227	O	SER	X	537	31.126	14.810	52.957	0.00	0.00
ATOM	8228	N	ALA	X	538	32.044	14.225	50.991	0.00	0.00
ATOM	8229	H	ALA	X	538	32.229	14.467	50.028	0.00	0.00
ATOM	8230	CA	ALA	X	538	32.186	12.832	51.397	0.00	0.00
ATOM	8231	HA	ALA	X	538	31.352	12.578	52.051	0.00	0.00
ATOM	8232	CB	ALA	X	538	32.027	11.861	50.193	0.00	0.00
ATOM	8233	HB1	ALA	X	538	32.262	10.821	50.423	0.00	0.00
ATOM	8234	HB2	ALA	X	538	31.015	11.898	49.791	0.00	0.00
ATOM	8235	HB3	ALA	X	538	32.592	12.154	49.308	0.00	0.00
ATOM	8236	C	ALA	X	538	33.425	12.574	52.302	0.00	0.00
ATOM	8237	O	ALA	X	538	33.744	11.418	52.528	0.00	0.00
ATOM	8238	N	THR	X	539	34.035	13.663	52.808	0.00	0.00
ATOM	8239	H	THR	X	539	33.622	14.565	52.617	0.00	0.00
ATOM	8240	CA	THR	X	539	35.130	13.582	53.852	0.00	0.00
ATOM	8241	HA	THR	X	539	35.545	12.583	53.718	0.00	0.00
ATOM	8242	CB	THR	X	539	36.211	14.708	53.617	0.00	0.00
ATOM	8243	HB	THR	X	539	35.594	15.597	53.487	0.00	0.00
ATOM	8244	CG2	THR	X	539	37.280	15.000	54.701	0.00	0.00
ATOM	8245	HG21	THR	X	539	38.007	14.192	54.783	0.00	0.00
ATOM	8246	HG22	THR	X	539	37.817	15.924	54.489	0.00	0.00
ATOM	8247	HG23	THR	X	539	36.728	14.902	55.636	0.00	0.00
ATOM	8248	OG1	THR	X	539	36.812	14.465	52.319	0.00	0.00
ATOM	8249	HG1	THR	X	539	36.077	14.332	51.716	0.00	0.00
ATOM	8250	C	THR	X	539	34.551	13.591	55.259	0.00	0.00
ATOM	8251	O	THR	X	539	33.769	14.418	55.664	0.00	0.00
ATOM	8252	OXT	THR	X	539	34.849	12.677	55.991	0.00	0.00
ATOM	8253	C	LIG	X	540	55.545	30.795	51.100	0.00	0.00
ATOM	8254	C1	LIG	X	540	54.199	30.627	50.772	0.00	0.00
ATOM	8255	C2	LIG	X	540	53.303	31.675	51.000	0.00	0.00
ATOM	8256	C3	LIG	X	540	53.813	32.944	51.403	0.00	0.00
ATOM	8257	C4	LIG	X	540	55.168	33.076	51.632	0.00	0.00
ATOM	8258	C5	LIG	X	540	56.029	32.008	51.535	0.00	0.00
ATOM	8259	C6	LIG	X	540	57.462	32.218	52.074	0.00	0.00
ATOM	8260	N	LIG	X	540	57.809	31.398	53.311	0.00	0.00
ATOM	8261	C7	LIG	X	540	56.788	31.467	54.438	0.00	0.00
ATOM	8262	C8	LIG	X	540	57.113	32.738	55.310	0.00	0.00
ATOM	8263	C9	LIG	X	540	58.561	32.677	55.903	0.00	0.00
ATOM	8264	C10	LIG	X	540	59.570	32.593	54.694	0.00	0.00

ATOM	8265	C11	LIG	X	540	59.254	31.371	53.822	0.00	0.00
ATOM	8266	O	LIG	X	540	52.865	33.914	51.635	0.00	0.00
ATOM	8267	C12	LIG	X	540	53.212	35.304	51.786	0.00	0.00
ATOM	8268	O1	LIG	X	540	51.969	31.515	50.722	0.00	0.00
ATOM	8269	H	LIG	X	540	51.543	32.316	51.076	0.00	0.00
ATOM	8270	H1	LIG	X	540	56.135	29.884	51.165	0.00	0.00
ATOM	8271	H2	LIG	X	540	53.867	29.597	50.669	0.00	0.00
ATOM	8272	H3	LIG	X	540	55.624	34.017	51.931	0.00	0.00
ATOM	8273	H4	LIG	X	540	57.701	33.281	52.164	0.00	0.00
ATOM	8274	H5	LIG	X	540	58.105	31.810	51.290	0.00	0.00
ATOM	8275	H6	LIG	X	540	55.723	31.417	54.198	0.00	0.00
ATOM	8276	H7	LIG	X	540	56.923	30.573	55.052	0.00	0.00
ATOM	8277	H8	LIG	X	540	57.117	33.637	54.690	0.00	0.00
ATOM	8278	H9	LIG	X	540	56.342	32.946	56.055	0.00	0.00
ATOM	8279	H10	LIG	X	540	58.586	31.830	56.592	0.00	0.00
ATOM	8280	H11	LIG	X	540	58.787	33.509	56.573	0.00	0.00
ATOM	8281	H12	LIG	X	540	59.337	33.435	54.039	0.00	0.00
ATOM	8282	H13	LIG	X	540	60.637	32.591	54.927	0.00	0.00
ATOM	8283	H14	LIG	X	540	59.974	31.332	53.001	0.00	0.00
ATOM	8284	H15	LIG	X	540	59.361	30.424	54.358	0.00	0.00
ATOM	8285	H16	LIG	X	540	52.265	35.794	52.025	0.00	0.00
ATOM	8286	H17	LIG	X	540	53.757	35.459	52.721	0.00	0.00
ATOM	8287	H18	LIG	X	540	53.612	35.601	50.813	0.00	0.00
ATOM	8288	Na+	Na+	X	541	61.450	42.234	38.600	0.00	0.00
ATOM	8289	Na+	Na+	X	542	25.320	1.151	46.937	0.00	0.00
ATOM	8290	Na+	Na+	X	543	62.905	40.708	36.011	0.00	0.00
ATOM	8291	Na+	Na+	X	544	66.122	17.992	57.356	0.00	0.00
ATOM	8292	Na+	Na+	X	545	79.887	5.542	57.662	0.00	0.00
ATOM	8293	Na+	Na+	X	546	68.986	43.449	48.529	0.00	0.00
ATOM	8294	Na+	Na+	X	547	74.002	14.852	90.739	0.00	0.00

END

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CRYST1	84.265	84.265	84.265	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	55.616	76.063	32.146	0.00	0.00
ATOM	2	H1	ASP	X	1	55.331	75.098	32.235	0.00	0.00
ATOM	3	H2	ASP	X	1	55.776	76.466	33.058	0.00	0.00
ATOM	4	H3	ASP	X	1	56.463	75.907	31.617	0.00	0.00
ATOM	5	CA	ASP	X	1	54.595	76.872	31.441	0.00	0.00
ATOM	6	HA	ASP	X	1	55.030	77.866	31.346	0.00	0.00
ATOM	7	CB	ASP	X	1	54.340	76.294	30.056	0.00	0.00
ATOM	8	HB2	ASP	X	1	55.345	76.124	29.667	0.00	0.00
ATOM	9	HB3	ASP	X	1	53.848	75.324	30.114	0.00	0.00
ATOM	10	CG	ASP	X	1	53.548	77.236	29.054	0.00	0.00
ATOM	11	OD1	ASP	X	1	54.274	77.815	28.203	0.00	0.00
ATOM	12	OD2	ASP	X	1	52.284	77.276	28.980	0.00	0.00
ATOM	13	C	ASP	X	1	53.236	76.998	32.161	0.00	0.00
ATOM	14	O	ASP	X	1	52.754	75.930	32.636	0.00	0.00
ATOM	15	N	ALA	X	2	52.568	78.118	32.210	0.00	0.00
ATOM	16	H	ALA	X	2	53.064	78.897	31.802	0.00	0.00
ATOM	17	CA	ALA	X	2	51.185	78.312	32.623	0.00	0.00
ATOM	18	HA	ALA	X	2	51.197	78.303	33.713	0.00	0.00
ATOM	19	CB	ALA	X	2	50.725	79.671	32.060	0.00	0.00
ATOM	20	HB1	ALA	X	2	50.863	79.702	30.979	0.00	0.00
ATOM	21	HB2	ALA	X	2	49.650	79.756	32.218	0.00	0.00
ATOM	22	HB3	ALA	X	2	51.247	80.537	32.467	0.00	0.00
ATOM	23	C	ALA	X	2	50.172	77.192	32.193	0.00	0.00
ATOM	24	O	ALA	X	2	49.280	76.787	33.029	0.00	0.00
ATOM	25	N	GLU	X	3	50.245	76.670	30.937	0.00	0.00
ATOM	26	H	GLU	X	3	50.873	77.007	30.221	0.00	0.00
ATOM	27	CA	GLU	X	3	49.424	75.443	30.591	0.00	0.00
ATOM	28	HA	GLU	X	3	48.385	75.744	30.460	0.00	0.00
ATOM	29	CB	GLU	X	3	49.969	74.919	29.200	0.00	0.00
ATOM	30	HB2	GLU	X	3	51.049	74.772	29.176	0.00	0.00
ATOM	31	HB3	GLU	X	3	49.650	73.889	29.038	0.00	0.00
ATOM	32	CG	GLU	X	3	49.548	75.721	28.018	0.00	0.00
ATOM	33	HG2	GLU	X	3	49.879	76.732	28.253	0.00	0.00
ATOM	34	HG3	GLU	X	3	50.195	75.405	27.200	0.00	0.00
ATOM	35	CD	GLU	X	3	48.124	75.733	27.611	0.00	0.00
ATOM	36	OE1	GLU	X	3	47.212	75.524	28.495	0.00	0.00
ATOM	37	OE2	GLU	X	3	47.785	75.833	26.434	0.00	0.00

ATOM	38	C	GLU	X	3	49.468	74.345	31.660	0.00	0.00
ATOM	39	O	GLU	X	3	48.507	73.585	31.612	0.00	0.00
ATOM	40	N	LEU	X	4	50.570	74.167	32.465	0.00	0.00
ATOM	41	H	LEU	X	4	51.364	74.785	32.380	0.00	0.00
ATOM	42	CA	LEU	X	4	50.654	73.068	33.432	0.00	0.00
ATOM	43	HA	LEU	X	4	50.300	72.101	33.076	0.00	0.00
ATOM	44	CB	LEU	X	4	52.138	72.787	33.842	0.00	0.00
ATOM	45	HB2	LEU	X	4	52.482	73.676	34.371	0.00	0.00
ATOM	46	HB3	LEU	X	4	52.182	71.937	34.522	0.00	0.00
ATOM	47	CG	LEU	X	4	53.136	72.664	32.630	0.00	0.00
ATOM	48	HG	LEU	X	4	52.962	73.509	31.964	0.00	0.00
ATOM	49	CD1	LEU	X	4	54.544	72.461	33.033	0.00	0.00
ATOM	50	HD11	LEU	X	4	54.704	71.565	33.633	0.00	0.00
ATOM	51	HD12	LEU	X	4	55.243	72.287	32.216	0.00	0.00
ATOM	52	HD13	LEU	X	4	54.938	73.347	33.531	0.00	0.00
ATOM	53	CD2	LEU	X	4	52.703	71.443	31.864	0.00	0.00
ATOM	54	HD21	LEU	X	4	51.730	71.705	31.448	0.00	0.00
ATOM	55	HD22	LEU	X	4	53.371	71.257	31.023	0.00	0.00
ATOM	56	HD23	LEU	X	4	52.599	70.488	32.379	0.00	0.00
ATOM	57	C	LEU	X	4	49.770	73.274	34.690	0.00	0.00
ATOM	58	O	LEU	X	4	49.716	72.370	35.566	0.00	0.00
ATOM	59	N	LEU	X	5	49.001	74.410	34.804	0.00	0.00
ATOM	60	H	LEU	X	5	49.082	75.111	34.082	0.00	0.00
ATOM	61	CA	LEU	X	5	48.259	74.790	35.994	0.00	0.00
ATOM	62	HA	LEU	X	5	48.618	74.196	36.835	0.00	0.00
ATOM	63	CB	LEU	X	5	48.638	76.201	36.459	0.00	0.00
ATOM	64	HB2	LEU	X	5	49.727	76.168	36.465	0.00	0.00
ATOM	65	HB3	LEU	X	5	48.484	76.911	35.647	0.00	0.00
ATOM	66	CG	LEU	X	5	48.096	76.682	37.828	0.00	0.00
ATOM	67	HG	LEU	X	5	48.406	77.726	37.857	0.00	0.00
ATOM	68	CD1	LEU	X	5	46.531	76.709	38.039	0.00	0.00
ATOM	69	HD11	LEU	X	5	46.011	76.908	37.102	0.00	0.00
ATOM	70	HD12	LEU	X	5	46.185	75.705	38.282	0.00	0.00
ATOM	71	HD13	LEU	X	5	46.352	77.544	38.717	0.00	0.00
ATOM	72	CD2	LEU	X	5	48.717	75.970	39.033	0.00	0.00
ATOM	73	HD21	LEU	X	5	49.783	75.797	38.887	0.00	0.00
ATOM	74	HD22	LEU	X	5	48.516	76.536	39.943	0.00	0.00
ATOM	75	HD23	LEU	X	5	48.382	74.933	39.066	0.00	0.00
ATOM	76	C	LEU	X	5	46.794	74.530	35.636	0.00	0.00
ATOM	77	O	LEU	X	5	46.252	75.225	34.809	0.00	0.00
ATOM	78	N	VAL	X	6	46.152	73.508	36.227	0.00	0.00
ATOM	79	H	VAL	X	6	46.726	73.066	36.931	0.00	0.00
ATOM	80	CA	VAL	X	6	44.806	73.005	35.935	0.00	0.00
ATOM	81	HA	VAL	X	6	44.400	73.555	35.087	0.00	0.00
ATOM	82	CB	VAL	X	6	44.803	71.518	35.512	0.00	0.00
ATOM	83	HB	VAL	X	6	45.071	70.882	36.356	0.00	0.00
ATOM	84	CG1	VAL	X	6	43.451	71.056	35.156	0.00	0.00
ATOM	85	HG11	VAL	X	6	43.479	70.299	34.372	0.00	0.00
ATOM	86	HG12	VAL	X	6	43.038	70.575	36.042	0.00	0.00
ATOM	87	HG13	VAL	X	6	42.757	71.785	34.737	0.00	0.00
ATOM	88	CG2	VAL	X	6	45.735	71.219	34.329	0.00	0.00
ATOM	89	HG21	VAL	X	6	45.460	71.718	33.399	0.00	0.00
ATOM	90	HG22	VAL	X	6	46.730	71.453	34.707	0.00	0.00
ATOM	91	HG23	VAL	X	6	45.681	70.135	34.237	0.00	0.00
ATOM	92	C	VAL	X	6	44.058	73.187	37.250	0.00	0.00
ATOM	93	O	VAL	X	6	44.672	73.205	38.289	0.00	0.00
ATOM	94	N	THR	X	7	42.739	73.380	37.177	0.00	0.00
ATOM	95	H	THR	X	7	42.361	73.268	36.247	0.00	0.00
ATOM	96	CA	THR	X	7	41.813	73.421	38.297	0.00	0.00
ATOM	97	HA	THR	X	7	42.361	73.526	39.233	0.00	0.00
ATOM	98	CB	THR	X	7	40.862	74.649	38.282	0.00	0.00
ATOM	99	HB	THR	X	7	40.285	74.643	37.358	0.00	0.00
ATOM	100	CG2	THR	X	7	40.001	74.915	39.520	0.00	0.00
ATOM	101	HG21	THR	X	7	39.516	75.882	39.384	0.00	0.00
ATOM	102	HG22	THR	X	7	39.205	74.178	39.622	0.00	0.00
ATOM	103	HG23	THR	X	7	40.646	75.063	40.386	0.00	0.00
ATOM	104	OG1	THR	X	7	41.792	75.779	38.321	0.00	0.00
ATOM	105	HG1	THR	X	7	42.382	75.513	37.612	0.00	0.00
ATOM	106	C	THR	X	7	40.963	72.146	38.417	0.00	0.00
ATOM	107	O	THR	X	7	40.510	71.621	37.457	0.00	0.00

ATOM	108	N	VAL	X	8	40.713	71.750	39.638	0.00	0.00
ATOM	109	H	VAL	X	8	41.075	72.230	40.450	0.00	0.00
ATOM	110	CA	VAL	X	8	39.752	70.666	39.935	0.00	0.00
ATOM	111	HA	VAL	X	8	39.108	70.441	39.085	0.00	0.00
ATOM	112	CB	VAL	X	8	40.505	69.425	40.375	0.00	0.00
ATOM	113	HB	VAL	X	8	39.780	68.713	40.769	0.00	0.00
ATOM	114	CG1	VAL	X	8	41.234	68.757	39.236	0.00	0.00
ATOM	115	HG11	VAL	X	8	41.777	67.877	39.581	0.00	0.00
ATOM	116	HG12	VAL	X	8	40.447	68.535	38.515	0.00	0.00
ATOM	117	HG13	VAL	X	8	41.862	69.510	38.761	0.00	0.00
ATOM	118	CG2	VAL	X	8	41.513	69.782	41.539	0.00	0.00
ATOM	119	HG21	VAL	X	8	42.266	70.426	41.086	0.00	0.00
ATOM	120	HG22	VAL	X	8	41.025	70.331	42.344	0.00	0.00
ATOM	121	HG23	VAL	X	8	41.978	68.855	41.872	0.00	0.00
ATOM	122	C	VAL	X	8	38.707	71.229	40.960	0.00	0.00
ATOM	123	O	VAL	X	8	38.741	72.333	41.484	0.00	0.00
ATOM	124	N	ARG	X	9	37.719	70.317	41.318	0.00	0.00
ATOM	125	H	ARG	X	9	37.825	69.493	40.743	0.00	0.00
ATOM	126	CA	ARG	X	9	36.683	70.508	42.344	0.00	0.00
ATOM	127	HA	ARG	X	9	36.024	71.287	41.960	0.00	0.00
ATOM	128	CB	ARG	X	9	35.918	69.236	42.633	0.00	0.00
ATOM	129	HB2	ARG	X	9	35.534	68.810	41.706	0.00	0.00
ATOM	130	HB3	ARG	X	9	36.543	68.482	43.114	0.00	0.00
ATOM	131	CG	ARG	X	9	34.611	69.458	43.449	0.00	0.00
ATOM	132	HG2	ARG	X	9	34.162	68.477	43.605	0.00	0.00
ATOM	133	HG3	ARG	X	9	34.812	69.717	44.488	0.00	0.00
ATOM	134	CD	ARG	X	9	33.619	70.488	43.000	0.00	0.00
ATOM	135	HD2	ARG	X	9	32.853	70.668	43.754	0.00	0.00
ATOM	136	HD3	ARG	X	9	34.076	71.471	42.883	0.00	0.00
ATOM	137	NE	ARG	X	9	32.961	70.029	41.754	0.00	0.00
ATOM	138	HE	ARG	X	9	32.563	69.101	41.734	0.00	0.00
ATOM	139	CZ	ARG	X	9	32.926	70.586	40.553	0.00	0.00
ATOM	140	NH1	ARG	X	9	33.170	71.878	40.335	0.00	0.00
ATOM	141	HH11	ARG	X	9	33.431	72.534	41.057	0.00	0.00
ATOM	142	HH12	ARG	X	9	33.164	72.250	39.396	0.00	0.00
ATOM	143	NH2	ARG	X	9	32.613	69.873	39.470	0.00	0.00
ATOM	144	HH21	ARG	X	9	32.207	68.975	39.691	0.00	0.00
ATOM	145	HH22	ARG	X	9	32.774	70.129	38.507	0.00	0.00
ATOM	146	C	ARG	X	9	37.203	71.077	43.701	0.00	0.00
ATOM	147	O	ARG	X	9	36.375	71.685	44.376	0.00	0.00
ATOM	148	N	GLY	X	10	38.482	70.850	44.092	0.00	0.00
ATOM	149	H	GLY	X	10	39.058	70.236	43.534	0.00	0.00
ATOM	150	CA	GLY	X	10	39.135	71.404	45.321	0.00	0.00
ATOM	151	HA2	GLY	X	10	38.383	71.564	46.040	0.00	0.00
ATOM	152	HA3	GLY	X	10	39.732	70.603	45.655	0.00	0.00
ATOM	153	C	GLY	X	10	39.791	72.750	45.172	0.00	0.00
ATOM	154	O	GLY	X	10	39.519	73.597	46.002	0.00	0.00
ATOM	155	N	GLY	X	11	40.543	72.974	44.078	0.00	0.00
ATOM	156	H	GLY	X	11	40.517	72.229	43.396	0.00	0.00
ATOM	157	CA	GLY	X	11	41.300	74.127	43.783	0.00	0.00
ATOM	158	HA2	GLY	X	11	40.567	74.923	43.511	0.00	0.00
ATOM	159	HA3	GLY	X	11	41.784	74.407	44.733	0.00	0.00
ATOM	160	C	GLY	X	11	42.219	74.057	42.572	0.00	0.00
ATOM	161	O	GLY	X	11	41.940	73.334	41.624	0.00	0.00
ATOM	162	N	ARG	X	12	43.412	74.649	42.588	0.00	0.00
ATOM	163	H	ARG	X	12	43.612	75.221	43.396	0.00	0.00
ATOM	164	CA	ARG	X	12	44.410	74.684	41.608	0.00	0.00
ATOM	165	HA	ARG	X	12	43.967	74.534	40.624	0.00	0.00
ATOM	166	CB	ARG	X	12	45.061	76.050	41.603	0.00	0.00
ATOM	167	HB2	ARG	X	12	45.529	76.216	42.573	0.00	0.00
ATOM	168	HB3	ARG	X	12	45.978	76.058	41.015	0.00	0.00
ATOM	169	CG	ARG	X	12	44.238	77.210	40.967	0.00	0.00
ATOM	170	HG2	ARG	X	12	44.328	77.100	39.886	0.00	0.00
ATOM	171	HG3	ARG	X	12	43.164	77.198	41.151	0.00	0.00
ATOM	172	CD	ARG	X	12	44.847	78.608	41.129	0.00	0.00
ATOM	173	HD2	ARG	X	12	45.919	78.612	40.932	0.00	0.00
ATOM	174	HD3	ARG	X	12	44.401	79.293	40.408	0.00	0.00
ATOM	175	NE	ARG	X	12	44.601	79.070	42.493	0.00	0.00
ATOM	176	HE	ARG	X	12	43.656	78.873	42.792	0.00	0.00
ATOM	177	CZ	ARG	X	12	45.356	79.883	43.281	0.00	0.00

ATOM	178	NH1	ARG	X	12	46.563	80.287	43.139	0.00	0.00
ATOM	179	HH11	ARG	X	12	47.139	79.989	42.364	0.00	0.00
ATOM	180	HH12	ARG	X	12	46.925	81.004	43.751	0.00	0.00
ATOM	181	NH2	ARG	X	12	44.816	80.228	44.378	0.00	0.00
ATOM	182	HH21	ARG	X	12	43.912	79.871	44.653	0.00	0.00
ATOM	183	HH22	ARG	X	12	45.265	80.832	45.052	0.00	0.00
ATOM	184	C	ARG	X	12	45.482	73.626	41.822	0.00	0.00
ATOM	185	O	ARG	X	12	45.733	73.230	43.010	0.00	0.00
ATOM	186	N	LEU	X	13	46.076	73.096	40.764	0.00	0.00
ATOM	187	H	LEU	X	13	46.033	73.621	39.902	0.00	0.00
ATOM	188	CA	LEU	X	13	46.798	71.871	40.710	0.00	0.00
ATOM	189	HA	LEU	X	13	47.317	71.708	41.655	0.00	0.00
ATOM	190	CB	LEU	X	13	45.671	70.796	40.503	0.00	0.00
ATOM	191	HB2	LEU	X	13	44.928	71.033	41.264	0.00	0.00
ATOM	192	HB3	LEU	X	13	45.235	70.866	39.507	0.00	0.00
ATOM	193	CG	LEU	X	13	46.025	69.341	40.842	0.00	0.00
ATOM	194	HG	LEU	X	13	46.515	69.266	41.813	0.00	0.00
ATOM	195	CD1	LEU	X	13	44.710	68.563	40.936	0.00	0.00
ATOM	196	HD11	LEU	X	13	44.233	68.859	41.869	0.00	0.00
ATOM	197	HD12	LEU	X	13	44.074	68.760	40.073	0.00	0.00
ATOM	198	HD13	LEU	X	13	44.913	67.495	40.859	0.00	0.00
ATOM	199	CD2	LEU	X	13	46.980	68.831	39.749	0.00	0.00
ATOM	200	HD21	LEU	X	13	47.127	67.760	39.887	0.00	0.00
ATOM	201	HD22	LEU	X	13	46.496	69.076	38.804	0.00	0.00
ATOM	202	HD23	LEU	X	13	47.988	69.246	39.779	0.00	0.00
ATOM	203	C	LEU	X	13	47.831	71.882	39.573	0.00	0.00
ATOM	204	O	LEU	X	13	47.479	72.090	38.392	0.00	0.00
ATOM	205	N	ARG	X	14	49.115	71.681	39.934	0.00	0.00
ATOM	206	H	ARG	X	14	49.350	71.544	40.907	0.00	0.00
ATOM	207	CA	ARG	X	14	50.233	71.969	39.028	0.00	0.00
ATOM	208	HA	ARG	X	14	49.904	72.484	38.125	0.00	0.00
ATOM	209	CB	ARG	X	14	51.260	72.844	39.721	0.00	0.00
ATOM	210	HB2	ARG	X	14	50.859	73.836	39.929	0.00	0.00
ATOM	211	HB3	ARG	X	14	51.587	72.346	40.634	0.00	0.00
ATOM	212	CG	ARG	X	14	52.448	73.121	38.754	0.00	0.00
ATOM	213	HG2	ARG	X	14	53.152	73.611	39.427	0.00	0.00
ATOM	214	HG3	ARG	X	14	52.853	72.169	38.413	0.00	0.00
ATOM	215	CD	ARG	X	14	52.167	74.023	37.531	0.00	0.00
ATOM	216	HD2	ARG	X	14	52.079	73.313	36.709	0.00	0.00
ATOM	217	HD3	ARG	X	14	51.313	74.685	37.671	0.00	0.00
ATOM	218	NE	ARG	X	14	53.371	74.878	37.255	0.00	0.00
ATOM	219	HE	ARG	X	14	53.244	75.877	37.342	0.00	0.00
ATOM	220	CZ	ARG	X	14	54.544	74.514	36.754	0.00	0.00
ATOM	221	NH1	ARG	X	14	54.765	73.254	36.549	0.00	0.00
ATOM	222	HH11	ARG	X	14	54.095	72.535	36.780	0.00	0.00
ATOM	223	HH12	ARG	X	14	55.702	73.029	36.245	0.00	0.00
ATOM	224	NH2	ARG	X	14	55.577	75.325	36.504	0.00	0.00
ATOM	225	HH21	ARG	X	14	55.682	76.283	36.807	0.00	0.00
ATOM	226	HH22	ARG	X	14	56.435	74.792	36.514	0.00	0.00
ATOM	227	C	ARG	X	14	50.915	70.595	38.797	0.00	0.00
ATOM	228	O	ARG	X	14	51.352	70.064	39.733	0.00	0.00
ATOM	229	N	GLY	X	15	51.120	70.196	37.569	0.00	0.00
ATOM	230	H	GLY	X	15	50.776	70.841	36.872	0.00	0.00
ATOM	231	CA	GLY	X	15	52.019	69.065	37.126	0.00	0.00
ATOM	232	HA2	GLY	X	15	52.397	68.580	37.937	0.00	0.00
ATOM	233	HA3	GLY	X	15	51.410	68.269	36.622	0.00	0.00
ATOM	234	C	GLY	X	15	53.108	69.553	36.137	0.00	0.00
ATOM	235	O	GLY	X	15	53.486	70.711	36.191	0.00	0.00
ATOM	236	N	ILE	X	16	53.491	68.627	35.231	0.00	0.00
ATOM	237	H	ILE	X	16	53.061	67.715	35.287	0.00	0.00
ATOM	238	CA	ILE	X	16	54.849	68.643	34.635	0.00	0.00
ATOM	239	HA	ILE	X	16	55.182	69.681	34.666	0.00	0.00
ATOM	240	CB	ILE	X	16	55.852	67.764	35.380	0.00	0.00
ATOM	241	HB	ILE	X	16	56.843	67.973	34.977	0.00	0.00
ATOM	242	CG2	ILE	X	16	56.011	68.211	36.891	0.00	0.00
ATOM	243	HG21	ILE	X	16	55.954	69.296	36.970	0.00	0.00
ATOM	244	HG22	ILE	X	16	55.259	67.782	37.552	0.00	0.00
ATOM	245	HG23	ILE	X	16	56.986	67.996	37.327	0.00	0.00
ATOM	246	CG1	ILE	X	16	55.616	66.190	35.306	0.00	0.00
ATOM	247	HG12	ILE	X	16	54.668	66.084	35.833	0.00	0.00

ATOM	248	HG13	ILE	X	16	55.486	65.872	34.271	0.00	0.00
ATOM	249	CD1	ILE	X	16	56.837	65.460	35.955	0.00	0.00
ATOM	250	HD11	ILE	X	16	57.003	65.771	36.986	0.00	0.00
ATOM	251	HD12	ILE	X	16	56.712	64.377	35.956	0.00	0.00
ATOM	252	HD13	ILE	X	16	57.722	65.609	35.336	0.00	0.00
ATOM	253	C	ILE	X	16	54.797	68.266	33.124	0.00	0.00
ATOM	254	O	ILE	X	16	54.104	67.327	32.784	0.00	0.00
ATOM	255	N	ARG	X	17	55.488	68.866	32.205	0.00	0.00
ATOM	256	H	ARG	X	17	56.065	69.619	32.552	0.00	0.00
ATOM	257	CA	ARG	X	17	55.559	68.413	30.815	0.00	0.00
ATOM	258	HA	ARG	X	17	54.625	67.947	30.500	0.00	0.00
ATOM	259	CB	ARG	X	17	55.873	69.508	29.794	0.00	0.00
ATOM	260	HB2	ARG	X	17	55.849	69.166	28.759	0.00	0.00
ATOM	261	HB3	ARG	X	17	55.074	70.245	29.876	0.00	0.00
ATOM	262	CG	ARG	X	17	57.218	70.312	29.898	0.00	0.00
ATOM	263	HG2	ARG	X	17	57.071	71.015	30.719	0.00	0.00
ATOM	264	HG3	ARG	X	17	58.032	69.639	30.167	0.00	0.00
ATOM	265	CD	ARG	X	17	57.556	71.177	28.724	0.00	0.00
ATOM	266	HD2	ARG	X	17	56.819	71.968	28.589	0.00	0.00
ATOM	267	HD3	ARG	X	17	58.517	71.602	29.015	0.00	0.00
ATOM	268	NE	ARG	X	17	57.752	70.539	27.426	0.00	0.00
ATOM	269	HE	ARG	X	17	58.114	69.600	27.513	0.00	0.00
ATOM	270	CZ	ARG	X	17	57.705	71.048	26.203	0.00	0.00
ATOM	271	NH1	ARG	X	17	57.504	72.290	25.939	0.00	0.00
ATOM	272	HH11	ARG	X	17	57.237	72.865	26.725	0.00	0.00
ATOM	273	HH12	ARG	X	17	57.527	72.500	24.952	0.00	0.00
ATOM	274	NH2	ARG	X	17	57.981	70.279	25.177	0.00	0.00
ATOM	275	HH21	ARG	X	17	58.446	69.401	25.357	0.00	0.00
ATOM	276	HH22	ARG	X	17	58.206	70.612	24.250	0.00	0.00
ATOM	277	C	ARG	X	17	56.653	67.280	30.678	0.00	0.00
ATOM	278	O	ARG	X	17	57.793	67.384	31.180	0.00	0.00
ATOM	279	N	LEU	X	18	56.344	66.242	29.876	0.00	0.00
ATOM	280	H	LEU	X	18	55.416	66.226	29.477	0.00	0.00
ATOM	281	CA	LEU	X	18	57.216	65.050	29.578	0.00	0.00
ATOM	282	HA	LEU	X	18	58.113	65.338	30.127	0.00	0.00
ATOM	283	CB	LEU	X	18	56.512	63.800	30.192	0.00	0.00
ATOM	284	HB2	LEU	X	18	55.444	63.735	29.984	0.00	0.00
ATOM	285	HB3	LEU	X	18	57.000	62.903	29.810	0.00	0.00
ATOM	286	CG	LEU	X	18	56.578	63.797	31.781	0.00	0.00
ATOM	287	HG	LEU	X	18	56.019	64.634	32.199	0.00	0.00
ATOM	288	CD1	LEU	X	18	55.827	62.521	32.212	0.00	0.00
ATOM	289	HD11	LEU	X	18	54.770	62.667	31.987	0.00	0.00
ATOM	290	HD12	LEU	X	18	56.196	61.614	31.735	0.00	0.00
ATOM	291	HD13	LEU	X	18	55.849	62.428	33.298	0.00	0.00
ATOM	292	CD2	LEU	X	18	57.956	63.820	32.419	0.00	0.00
ATOM	293	HD21	LEU	X	18	58.548	62.949	32.138	0.00	0.00
ATOM	294	HD22	LEU	X	18	58.513	64.756	32.363	0.00	0.00
ATOM	295	HD23	LEU	X	18	57.814	63.598	33.476	0.00	0.00
ATOM	296	C	LEU	X	18	57.445	64.643	28.067	0.00	0.00
ATOM	297	O	LEU	X	18	56.554	64.832	27.228	0.00	0.00
ATOM	298	N	LYS	X	19	58.670	64.170	27.814	0.00	0.00
ATOM	299	H	LYS	X	19	59.294	64.076	28.603	0.00	0.00
ATOM	300	CA	LYS	X	19	59.160	63.594	26.536	0.00	0.00
ATOM	301	HA	LYS	X	19	58.780	64.276	25.776	0.00	0.00
ATOM	302	CB	LYS	X	19	60.696	63.625	26.651	0.00	0.00
ATOM	303	HB2	LYS	X	19	60.942	62.969	27.486	0.00	0.00
ATOM	304	HB3	LYS	X	19	61.132	63.192	25.751	0.00	0.00
ATOM	305	CG	LYS	X	19	61.275	65.023	26.753	0.00	0.00
ATOM	306	HG2	LYS	X	19	60.891	65.531	25.868	0.00	0.00
ATOM	307	HG3	LYS	X	19	60.966	65.542	27.660	0.00	0.00
ATOM	308	CD	LYS	X	19	62.804	64.939	26.759	0.00	0.00
ATOM	309	HD2	LYS	X	19	63.156	64.408	25.874	0.00	0.00
ATOM	310	HD3	LYS	X	19	63.227	65.937	26.870	0.00	0.00
ATOM	311	CE	LYS	X	19	63.335	64.172	27.974	0.00	0.00
ATOM	312	HE2	LYS	X	19	62.832	64.552	28.863	0.00	0.00
ATOM	313	HE3	LYS	X	19	63.133	63.118	27.781	0.00	0.00
ATOM	314	NZ	LYS	X	19	64.823	64.271	28.136	0.00	0.00
ATOM	315	HZ1	LYS	X	19	65.255	63.957	27.278	0.00	0.00
ATOM	316	HZ2	LYS	X	19	65.052	65.251	28.222	0.00	0.00
ATOM	317	HZ3	LYS	X	19	65.173	63.633	28.836	0.00	0.00

ATOM	318	C	LYS	X	19	58.589	62.223	26.398	0.00	0.00
ATOM	319	O	LYS	X	19	58.501	61.509	27.391	0.00	0.00
ATOM	320	N	THR	X	20	58.197	61.918	25.161	0.00	0.00
ATOM	321	H	THR	X	20	58.306	62.626	24.449	0.00	0.00
ATOM	322	CA	THR	X	20	57.699	60.561	24.679	0.00	0.00
ATOM	323	HA	THR	X	20	58.395	59.795	25.022	0.00	0.00
ATOM	324	CB	THR	X	20	56.300	60.285	25.341	0.00	0.00
ATOM	325	HB	THR	X	20	55.674	59.755	24.623	0.00	0.00
ATOM	326	CG2	THR	X	20	56.302	59.268	26.534	0.00	0.00
ATOM	327	HG21	THR	X	20	56.749	58.311	26.267	0.00	0.00
ATOM	328	HG22	THR	X	20	56.694	59.749	27.430	0.00	0.00
ATOM	329	HG23	THR	X	20	55.274	59.026	26.804	0.00	0.00
ATOM	330	OG1	THR	X	20	55.696	61.491	25.680	0.00	0.00
ATOM	331	HG1	THR	X	20	55.632	61.870	24.800	0.00	0.00
ATOM	332	C	THR	X	20	57.761	60.569	23.084	0.00	0.00
ATOM	333	O	THR	X	20	57.717	61.659	22.470	0.00	0.00
ATOM	334	N	PRO	X	21	58.007	59.400	22.438	0.00	0.00
ATOM	335	CD	PRO	X	21	58.022	58.067	23.095	0.00	0.00
ATOM	336	HD2	PRO	X	21	57.105	57.930	23.668	0.00	0.00
ATOM	337	HD3	PRO	X	21	58.886	58.051	23.760	0.00	0.00
ATOM	338	CG	PRO	X	21	58.059	57.139	21.981	0.00	0.00
ATOM	339	HG2	PRO	X	21	57.078	57.088	21.508	0.00	0.00
ATOM	340	HG3	PRO	X	21	58.511	56.179	22.230	0.00	0.00
ATOM	341	CB	PRO	X	21	58.984	57.891	20.948	0.00	0.00
ATOM	342	HB2	PRO	X	21	58.927	57.545	19.916	0.00	0.00
ATOM	343	HB3	PRO	X	21	60.059	57.800	21.098	0.00	0.00
ATOM	344	CA	PRO	X	21	58.601	59.323	21.087	0.00	0.00
ATOM	345	HA	PRO	X	21	59.537	59.877	21.026	0.00	0.00
ATOM	346	C	PRO	X	21	57.736	59.865	19.898	0.00	0.00
ATOM	347	O	PRO	X	21	58.225	60.460	18.956	0.00	0.00
ATOM	348	N	GLY	X	22	56.434	59.582	19.860	0.00	0.00
ATOM	349	H	GLY	X	22	56.045	59.053	20.627	0.00	0.00
ATOM	350	CA	GLY	X	22	55.480	60.065	18.851	0.00	0.00
ATOM	351	HA2	GLY	X	22	56.021	60.149	17.834	0.00	0.00
ATOM	352	HA3	GLY	X	22	54.711	59.225	18.816	0.00	0.00
ATOM	353	C	GLY	X	22	54.722	61.409	19.301	0.00	0.00
ATOM	354	O	GLY	X	22	53.999	61.981	18.468	0.00	0.00
ATOM	355	N	GLY	X	23	54.829	61.950	20.524	0.00	0.00
ATOM	356	H	GLY	X	23	55.427	61.421	21.143	0.00	0.00
ATOM	357	CA	GLY	X	23	54.210	63.170	21.060	0.00	0.00
ATOM	358	HA2	GLY	X	23	54.431	64.067	20.547	0.00	0.00
ATOM	359	HA3	GLY	X	23	53.160	62.889	20.949	0.00	0.00
ATOM	360	C	GLY	X	23	54.551	63.401	22.516	0.00	0.00
ATOM	361	O	GLY	X	23	54.709	62.429	23.303	0.00	0.00
ATOM	362	N	PRO	X	24	54.733	64.683	22.869	0.00	0.00
ATOM	363	CD	PRO	X	24	54.671	65.922	22.061	0.00	0.00
ATOM	364	HD2	PRO	X	24	53.613	66.099	21.865	0.00	0.00
ATOM	365	HD3	PRO	X	24	55.128	65.848	21.075	0.00	0.00
ATOM	366	CG	PRO	X	24	55.226	67.054	22.883	0.00	0.00
ATOM	367	HG2	PRO	X	24	54.624	67.950	22.735	0.00	0.00
ATOM	368	HG3	PRO	X	24	56.288	67.113	22.643	0.00	0.00
ATOM	369	CB	PRO	X	24	55.105	66.557	24.331	0.00	0.00
ATOM	370	HB2	PRO	X	24	54.216	67.111	24.632	0.00	0.00
ATOM	371	HB3	PRO	X	24	55.992	66.716	24.945	0.00	0.00
ATOM	372	CA	PRO	X	24	54.980	65.006	24.295	0.00	0.00
ATOM	373	HA	PRO	X	24	55.847	64.469	24.680	0.00	0.00
ATOM	374	C	PRO	X	24	53.707	64.683	25.109	0.00	0.00
ATOM	375	O	PRO	X	24	52.608	64.632	24.549	0.00	0.00
ATOM	376	N	VAL	X	25	53.824	64.531	26.388	0.00	0.00
ATOM	377	H	VAL	X	25	54.731	64.785	26.754	0.00	0.00
ATOM	378	CA	VAL	X	25	52.698	64.418	27.419	0.00	0.00
ATOM	379	HA	VAL	X	25	51.855	64.815	26.855	0.00	0.00
ATOM	380	CB	VAL	X	25	52.434	62.892	27.701	0.00	0.00
ATOM	381	HB	VAL	X	25	51.529	62.832	28.305	0.00	0.00
ATOM	382	CG1	VAL	X	25	52.211	62.016	26.489	0.00	0.00
ATOM	383	HG11	VAL	X	25	51.803	61.057	26.806	0.00	0.00
ATOM	384	HG12	VAL	X	25	51.316	62.383	25.987	0.00	0.00
ATOM	385	HG13	VAL	X	25	53.027	62.090	25.770	0.00	0.00
ATOM	386	CG2	VAL	X	25	53.518	62.222	28.547	0.00	0.00
ATOM	387	HG21	VAL	X	25	53.621	61.161	28.322	0.00	0.00

ATOM	388	HG22	VAL	X	25	54.466	62.694	28.291	0.00	0.00
ATOM	389	HG23	VAL	X	25	53.297	62.306	29.611	0.00	0.00
ATOM	390	C	VAL	X	25	52.948	65.252	28.625	0.00	0.00
ATOM	391	O	VAL	X	25	53.814	66.132	28.568	0.00	0.00
ATOM	392	N	SER	X	26	52.252	64.960	29.696	0.00	0.00
ATOM	393	H	SER	X	26	51.695	64.122	29.604	0.00	0.00
ATOM	394	CA	SER	X	26	52.342	65.574	31.078	0.00	0.00
ATOM	395	HA	SER	X	26	53.395	65.663	31.348	0.00	0.00
ATOM	396	CB	SER	X	26	51.621	66.965	31.081	0.00	0.00
ATOM	397	HB2	SER	X	26	51.509	67.360	32.091	0.00	0.00
ATOM	398	HB3	SER	X	26	52.206	67.707	30.537	0.00	0.00
ATOM	399	OG	SER	X	26	50.300	66.833	30.682	0.00	0.00
ATOM	400	HG	SER	X	26	50.308	66.082	30.084	0.00	0.00
ATOM	401	C	SER	X	26	51.884	64.501	32.113	0.00	0.00
ATOM	402	O	SER	X	26	51.231	63.519	31.852	0.00	0.00
ATOM	403	N	ALA	X	27	52.302	64.895	33.310	0.00	0.00
ATOM	404	H	ALA	X	27	52.908	65.702	33.341	0.00	0.00
ATOM	405	CA	ALA	X	27	51.927	64.177	34.537	0.00	0.00
ATOM	406	HA	ALA	X	27	51.055	63.533	34.421	0.00	0.00
ATOM	407	CB	ALA	X	27	53.166	63.360	34.970	0.00	0.00
ATOM	408	HB1	ALA	X	27	53.280	62.501	34.309	0.00	0.00
ATOM	409	HB2	ALA	X	27	53.989	64.074	34.959	0.00	0.00
ATOM	410	HB3	ALA	X	27	53.144	62.980	35.992	0.00	0.00
ATOM	411	C	ALA	X	27	51.496	65.176	35.658	0.00	0.00
ATOM	412	O	ALA	X	27	52.071	66.253	35.669	0.00	0.00
ATOM	413	N	PHE	X	28	50.632	64.731	36.574	0.00	0.00
ATOM	414	H	PHE	X	28	50.305	63.778	36.508	0.00	0.00
ATOM	415	CA	PHE	X	28	50.134	65.383	37.782	0.00	0.00
ATOM	416	HA	PHE	X	28	50.831	66.164	38.087	0.00	0.00
ATOM	417	CB	PHE	X	28	48.769	66.113	37.512	0.00	0.00
ATOM	418	HB2	PHE	X	28	48.087	65.310	37.232	0.00	0.00
ATOM	419	HB3	PHE	X	28	48.424	66.585	38.432	0.00	0.00
ATOM	420	CG	PHE	X	28	48.659	67.081	36.309	0.00	0.00
ATOM	421	CD1	PHE	X	28	48.451	66.660	34.952	0.00	0.00
ATOM	422	HD1	PHE	X	28	48.500	65.600	34.749	0.00	0.00
ATOM	423	CE1	PHE	X	28	48.452	67.652	33.934	0.00	0.00
ATOM	424	HE1	PHE	X	28	48.262	67.240	32.954	0.00	0.00
ATOM	425	CZ	PHE	X	28	48.269	69.046	34.272	0.00	0.00
ATOM	426	HZ	PHE	X	28	48.103	69.807	33.524	0.00	0.00
ATOM	427	CE2	PHE	X	28	48.330	69.379	35.603	0.00	0.00
ATOM	428	HE2	PHE	X	28	48.123	70.417	35.815	0.00	0.00
ATOM	429	CD2	PHE	X	28	48.528	68.404	36.605	0.00	0.00
ATOM	430	HD2	PHE	X	28	48.704	68.750	37.613	0.00	0.00
ATOM	431	C	PHE	X	28	49.990	64.300	38.860	0.00	0.00
ATOM	432	O	PHE	X	28	49.145	63.391	38.779	0.00	0.00
ATOM	433	N	LEU	X	29	50.861	64.396	39.867	0.00	0.00
ATOM	434	H	LEU	X	29	51.530	65.152	39.818	0.00	0.00
ATOM	435	CA	LEU	X	29	51.304	63.378	40.776	0.00	0.00
ATOM	436	HA	LEU	X	29	50.757	62.492	40.455	0.00	0.00
ATOM	437	CB	LEU	X	29	52.779	63.082	40.625	0.00	0.00
ATOM	438	HB2	LEU	X	29	53.248	64.052	40.791	0.00	0.00
ATOM	439	HB3	LEU	X	29	53.099	62.346	41.362	0.00	0.00
ATOM	440	CG	LEU	X	29	53.170	62.726	39.130	0.00	0.00
ATOM	441	HG	LEU	X	29	52.937	63.564	38.473	0.00	0.00
ATOM	442	CD1	LEU	X	29	54.721	62.631	39.058	0.00	0.00
ATOM	443	HD11	LEU	X	29	54.903	62.707	37.986	0.00	0.00
ATOM	444	HD12	LEU	X	29	55.202	63.468	39.564	0.00	0.00
ATOM	445	HD13	LEU	X	29	55.083	61.742	39.575	0.00	0.00
ATOM	446	CD2	LEU	X	29	52.601	61.474	38.515	0.00	0.00
ATOM	447	HD21	LEU	X	29	51.552	61.705	38.331	0.00	0.00
ATOM	448	HD22	LEU	X	29	53.077	61.310	37.548	0.00	0.00
ATOM	449	HD23	LEU	X	29	52.636	60.618	39.189	0.00	0.00
ATOM	450	C	LEU	X	29	50.764	63.609	42.218	0.00	0.00
ATOM	451	O	LEU	X	29	50.719	64.763	42.665	0.00	0.00
ATOM	452	N	GLY	X	30	50.367	62.540	42.912	0.00	0.00
ATOM	453	H	GLY	X	30	50.487	61.650	42.451	0.00	0.00
ATOM	454	CA	GLY	X	30	49.924	62.441	44.275	0.00	0.00
ATOM	455	HA2	GLY	X	30	49.447	61.441	44.426	0.00	0.00
ATOM	456	HA3	GLY	X	30	50.839	62.480	44.916	0.00	0.00
ATOM	457	C	GLY	X	30	48.917	63.512	44.823	0.00	0.00

ATOM	458	O	GLY	X	30	49.325	63.962	45.851	0.00	0.00
ATOM	459	N	ILE	X	31	47.798	63.881	44.252	0.00	0.00
ATOM	460	H	ILE	X	31	47.495	63.231	43.540	0.00	0.00
ATOM	461	CA	ILE	X	31	46.853	64.923	44.681	0.00	0.00
ATOM	462	HA	ILE	X	31	47.421	65.809	44.964	0.00	0.00
ATOM	463	CB	ILE	X	31	46.024	65.165	43.328	0.00	0.00
ATOM	464	HB	ILE	X	31	45.723	64.160	43.032	0.00	0.00
ATOM	465	CG2	ILE	X	31	44.856	66.118	43.621	0.00	0.00
ATOM	466	HG21	ILE	X	31	44.387	66.661	42.801	0.00	0.00
ATOM	467	HG22	ILE	X	31	44.077	65.430	43.948	0.00	0.00
ATOM	468	HG23	ILE	X	31	45.200	66.814	44.386	0.00	0.00
ATOM	469	CG1	ILE	X	31	46.939	65.718	42.181	0.00	0.00
ATOM	470	HG12	ILE	X	31	46.814	66.800	42.160	0.00	0.00
ATOM	471	HG13	ILE	X	31	48.009	65.541	42.295	0.00	0.00
ATOM	472	CD1	ILE	X	31	46.638	65.110	40.795	0.00	0.00
ATOM	473	HD11	ILE	X	31	47.318	65.546	40.063	0.00	0.00
ATOM	474	HD12	ILE	X	31	46.900	64.055	40.866	0.00	0.00
ATOM	475	HD13	ILE	X	31	45.581	65.225	40.552	0.00	0.00
ATOM	476	C	ILE	X	31	45.869	64.486	45.795	0.00	0.00
ATOM	477	O	ILE	X	31	45.316	63.424	45.667	0.00	0.00
ATOM	478	N	PRO	X	32	45.575	65.230	46.826	0.00	0.00
ATOM	479	CD	PRO	X	32	46.068	66.538	47.147	0.00	0.00
ATOM	480	HD2	PRO	X	32	45.426	67.324	46.748	0.00	0.00
ATOM	481	HD3	PRO	X	32	47.080	66.819	46.853	0.00	0.00
ATOM	482	CG	PRO	X	32	46.111	66.518	48.685	0.00	0.00
ATOM	483	HG2	PRO	X	32	46.063	67.479	49.196	0.00	0.00
ATOM	484	HG3	PRO	X	32	46.952	65.932	49.058	0.00	0.00
ATOM	485	CB	PRO	X	32	44.968	65.595	49.112	0.00	0.00
ATOM	486	HB2	PRO	X	32	44.093	66.191	49.372	0.00	0.00
ATOM	487	HB3	PRO	X	32	45.366	64.951	49.896	0.00	0.00
ATOM	488	CA	PRO	X	32	44.714	64.647	47.921	0.00	0.00
ATOM	489	HA	PRO	X	32	45.000	63.640	48.224	0.00	0.00
ATOM	490	C	PRO	X	32	43.197	64.594	47.517	0.00	0.00
ATOM	491	O	PRO	X	32	42.541	65.616	47.377	0.00	0.00
ATOM	492	N	PHE	X	33	42.683	63.387	47.396	0.00	0.00
ATOM	493	H	PHE	X	33	43.360	62.638	47.361	0.00	0.00
ATOM	494	CA	PHE	X	33	41.257	63.213	47.047	0.00	0.00
ATOM	495	HA	PHE	X	33	40.899	64.036	46.428	0.00	0.00
ATOM	496	CB	PHE	X	33	41.002	61.915	46.251	0.00	0.00
ATOM	497	HB2	PHE	X	33	39.920	61.902	46.120	0.00	0.00
ATOM	498	HB3	PHE	X	33	41.524	61.954	45.295	0.00	0.00
ATOM	499	CG	PHE	X	33	41.379	60.489	46.827	0.00	0.00
ATOM	500	CD1	PHE	X	33	40.483	59.793	47.657	0.00	0.00
ATOM	501	HD1	PHE	X	33	39.495	60.224	47.722	0.00	0.00
ATOM	502	CE1	PHE	X	33	40.916	58.516	48.177	0.00	0.00
ATOM	503	HE1	PHE	X	33	40.241	57.860	48.708	0.00	0.00
ATOM	504	CZ	PHE	X	33	42.173	58.018	47.816	0.00	0.00
ATOM	505	HZ	PHE	X	33	42.461	57.052	48.203	0.00	0.00
ATOM	506	CE2	PHE	X	33	43.034	58.748	47.117	0.00	0.00
ATOM	507	HE2	PHE	X	33	44.023	58.340	46.973	0.00	0.00
ATOM	508	CD2	PHE	X	33	42.685	60.029	46.683	0.00	0.00
ATOM	509	HD2	PHE	X	33	43.476	60.556	46.172	0.00	0.00
ATOM	510	C	PHE	X	33	40.287	63.187	48.282	0.00	0.00
ATOM	511	O	PHE	X	33	39.043	63.317	48.278	0.00	0.00
ATOM	512	N	ALA	X	34	40.914	62.903	49.429	0.00	0.00
ATOM	513	H	ALA	X	34	41.919	62.847	49.354	0.00	0.00
ATOM	514	CA	ALA	X	34	40.395	62.474	50.701	0.00	0.00
ATOM	515	HA	ALA	X	34	39.364	62.824	50.745	0.00	0.00
ATOM	516	CB	ALA	X	34	40.513	60.947	50.940	0.00	0.00
ATOM	517	HB1	ALA	X	34	40.142	60.759	51.948	0.00	0.00
ATOM	518	HB2	ALA	X	34	39.852	60.489	50.203	0.00	0.00
ATOM	519	HB3	ALA	X	34	41.510	60.551	50.751	0.00	0.00
ATOM	520	C	ALA	X	34	41.018	63.285	51.837	0.00	0.00
ATOM	521	O	ALA	X	34	42.251	63.508	51.725	0.00	0.00
ATOM	522	N	GLU	X	35	40.298	63.452	52.931	0.00	0.00
ATOM	523	H	GLU	X	35	39.412	62.977	53.026	0.00	0.00
ATOM	524	CA	GLU	X	35	40.872	63.788	54.236	0.00	0.00
ATOM	525	HA	GLU	X	35	41.542	64.646	54.290	0.00	0.00
ATOM	526	CB	GLU	X	35	39.770	63.998	55.275	0.00	0.00
ATOM	527	HB2	GLU	X	35	39.175	63.085	55.293	0.00	0.00

ATOM	528	HB3	GLU	X	35	40.196	63.971	56.278	0.00	0.00
ATOM	529	CG	GLU	X	35	38.898	65.208	55.006	0.00	0.00
ATOM	530	HG2	GLU	X	35	38.301	65.069	54.104	0.00	0.00
ATOM	531	HG3	GLU	X	35	38.075	65.294	55.716	0.00	0.00
ATOM	532	CD	GLU	X	35	39.647	66.570	54.983	0.00	0.00
ATOM	533	OE1	GLU	X	35	40.169	66.956	56.080	0.00	0.00
ATOM	534	OE2	GLU	X	35	39.765	67.274	53.913	0.00	0.00
ATOM	535	C	GLU	X	35	41.715	62.620	54.819	0.00	0.00
ATOM	536	O	GLU	X	35	41.281	61.475	54.472	0.00	0.00
ATOM	537	N	PRO	X	36	42.814	62.882	55.539	0.00	0.00
ATOM	538	CD	PRO	X	36	43.169	64.125	56.285	0.00	0.00
ATOM	539	HD2	PRO	X	36	42.268	64.477	56.787	0.00	0.00
ATOM	540	HD3	PRO	X	36	43.445	64.815	55.488	0.00	0.00
ATOM	541	CG	PRO	X	36	44.240	63.778	57.345	0.00	0.00
ATOM	542	HG2	PRO	X	36	43.794	63.550	58.313	0.00	0.00
ATOM	543	HG3	PRO	X	36	45.011	64.542	57.438	0.00	0.00
ATOM	544	CB	PRO	X	36	44.847	62.524	56.757	0.00	0.00
ATOM	545	HB2	PRO	X	36	45.300	61.898	57.526	0.00	0.00
ATOM	546	HB3	PRO	X	36	45.668	62.800	56.096	0.00	0.00
ATOM	547	CA	PRO	X	36	43.746	61.842	55.913	0.00	0.00
ATOM	548	HA	PRO	X	36	44.205	61.470	54.998	0.00	0.00
ATOM	549	C	PRO	X	36	42.957	60.792	56.740	0.00	0.00
ATOM	550	O	PRO	X	36	42.050	61.095	57.475	0.00	0.00
ATOM	551	N	PRO	X	37	43.311	59.503	56.620	0.00	0.00
ATOM	552	CD	PRO	X	37	44.317	58.953	55.677	0.00	0.00
ATOM	553	HD2	PRO	X	37	45.290	59.327	55.997	0.00	0.00
ATOM	554	HD3	PRO	X	37	44.128	59.277	54.653	0.00	0.00
ATOM	555	CG	PRO	X	37	44.253	57.427	55.917	0.00	0.00
ATOM	556	HG2	PRO	X	37	44.838	57.148	56.793	0.00	0.00
ATOM	557	HG3	PRO	X	37	44.554	56.806	55.073	0.00	0.00
ATOM	558	CB	PRO	X	37	42.706	57.302	56.244	0.00	0.00
ATOM	559	HB2	PRO	X	37	42.495	56.353	56.737	0.00	0.00
ATOM	560	HB3	PRO	X	37	42.152	57.425	55.314	0.00	0.00
ATOM	561	CA	PRO	X	37	42.598	58.416	57.240	0.00	0.00
ATOM	562	HA	PRO	X	37	41.561	58.671	57.462	0.00	0.00
ATOM	563	C	PRO	X	37	43.239	57.992	58.569	0.00	0.00
ATOM	564	O	PRO	X	37	43.058	56.832	58.999	0.00	0.00
ATOM	565	N	MET	X	38	44.052	58.906	59.170	0.00	0.00
ATOM	566	H	MET	X	38	43.969	59.787	58.684	0.00	0.00
ATOM	567	CA	MET	X	38	44.919	58.757	60.325	0.00	0.00
ATOM	568	HA	MET	X	38	45.309	57.739	60.333	0.00	0.00
ATOM	569	CB	MET	X	38	46.020	59.821	60.328	0.00	0.00
ATOM	570	HB2	MET	X	38	46.663	59.520	61.155	0.00	0.00
ATOM	571	HB3	MET	X	38	46.723	59.668	59.510	0.00	0.00
ATOM	572	CG	MET	X	38	45.550	61.309	60.265	0.00	0.00
ATOM	573	HG2	MET	X	38	44.844	61.418	59.442	0.00	0.00
ATOM	574	HG3	MET	X	38	45.111	61.450	61.253	0.00	0.00
ATOM	575	SD	MET	X	38	46.933	62.373	60.127	0.00	0.00
ATOM	576	CE	MET	X	38	47.401	62.331	61.867	0.00	0.00
ATOM	577	HE1	MET	X	38	48.405	62.701	62.075	0.00	0.00
ATOM	578	HE2	MET	X	38	46.608	62.948	62.292	0.00	0.00
ATOM	579	HE3	MET	X	38	47.315	61.283	62.153	0.00	0.00
ATOM	580	C	MET	X	38	44.122	58.691	61.666	0.00	0.00
ATOM	581	O	MET	X	38	42.986	59.137	61.737	0.00	0.00
ATOM	582	N	GLY	X	39	44.686	58.126	62.760	0.00	0.00
ATOM	583	H	GLY	X	39	45.644	57.814	62.695	0.00	0.00
ATOM	584	CA	GLY	X	39	44.047	57.966	64.087	0.00	0.00
ATOM	585	HA2	GLY	X	39	44.485	57.228	64.715	0.00	0.00
ATOM	586	HA3	GLY	X	39	44.097	58.926	64.566	0.00	0.00
ATOM	587	C	GLY	X	39	42.542	57.550	64.138	0.00	0.00
ATOM	588	O	GLY	X	39	42.339	56.380	63.997	0.00	0.00
ATOM	589	N	PRO	X	40	41.528	58.414	64.313	0.00	0.00
ATOM	590	CD	PRO	X	40	41.725	59.805	64.739	0.00	0.00
ATOM	591	HD2	PRO	X	40	41.969	60.406	63.863	0.00	0.00
ATOM	592	HD3	PRO	X	40	42.503	59.843	65.501	0.00	0.00
ATOM	593	CG	PRO	X	40	40.311	60.261	65.217	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.965	61.294	65.171	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.142	59.939	66.245	0.00	0.00
ATOM	596	CB	PRO	X	40	39.288	59.377	64.459	0.00	0.00
ATOM	597	HB2	PRO	X	40	39.025	59.683	63.446	0.00	0.00

ATOM	598	HB3	PRO	X	40	38.363	59.218	65.012	0.00	0.00
ATOM	599	CA	PRO	X	40	40.139	58.045	64.330	0.00	0.00
ATOM	600	HA	PRO	X	40	40.007	57.425	65.216	0.00	0.00
ATOM	601	C	PRO	X	40	39.818	57.306	63.076	0.00	0.00
ATOM	602	O	PRO	X	40	39.281	56.248	63.226	0.00	0.00
ATOM	603	N	ARG	X	41	40.169	57.718	61.877	0.00	0.00
ATOM	604	H	ARG	X	41	40.832	58.479	61.894	0.00	0.00
ATOM	605	CA	ARG	X	41	39.682	57.083	60.671	0.00	0.00
ATOM	606	HA	ARG	X	41	38.614	56.930	60.821	0.00	0.00
ATOM	607	CB	ARG	X	41	39.857	58.059	59.423	0.00	0.00
ATOM	608	HB2	ARG	X	41	40.738	58.690	59.537	0.00	0.00
ATOM	609	HB3	ARG	X	41	39.815	57.506	58.485	0.00	0.00
ATOM	610	CG	ARG	X	41	38.729	59.026	59.360	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.780	58.498	59.463	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.852	59.678	60.225	0.00	0.00
ATOM	613	CD	ARG	X	41	38.660	59.879	58.077	0.00	0.00
ATOM	614	HD2	ARG	X	41	39.676	60.191	57.835	0.00	0.00
ATOM	615	HD3	ARG	X	41	38.201	59.230	57.332	0.00	0.00
ATOM	616	NE	ARG	X	41	37.809	61.022	58.209	0.00	0.00
ATOM	617	HE	ARG	X	41	36.827	60.832	58.353	0.00	0.00
ATOM	618	CZ	ARG	X	41	38.246	62.185	58.546	0.00	0.00
ATOM	619	NH1	ARG	X	41	39.506	62.386	58.784	0.00	0.00
ATOM	620	HH11	ARG	X	41	40.210	61.662	58.786	0.00	0.00
ATOM	621	HH12	ARG	X	41	39.662	63.214	59.341	0.00	0.00
ATOM	622	NH2	ARG	X	41	37.538	63.226	58.572	0.00	0.00
ATOM	623	HH21	ARG	X	41	36.565	63.131	58.320	0.00	0.00
ATOM	624	HH22	ARG	X	41	38.011	64.118	58.534	0.00	0.00
ATOM	625	C	ARG	X	41	40.344	55.780	60.325	0.00	0.00
ATOM	626	O	ARG	X	41	39.899	55.108	59.350	0.00	0.00
ATOM	627	N	ARG	X	42	41.414	55.357	61.061	0.00	0.00
ATOM	628	H	ARG	X	42	41.565	55.890	61.906	0.00	0.00
ATOM	629	CA	ARG	X	42	42.067	54.097	60.912	0.00	0.00
ATOM	630	HA	ARG	X	42	42.538	54.012	59.932	0.00	0.00
ATOM	631	CB	ARG	X	42	43.142	53.986	62.035	0.00	0.00
ATOM	632	HB2	ARG	X	42	43.716	54.901	62.182	0.00	0.00
ATOM	633	HB3	ARG	X	42	42.684	53.743	62.994	0.00	0.00
ATOM	634	CG	ARG	X	42	44.083	52.717	61.877	0.00	0.00
ATOM	635	HG2	ARG	X	42	43.467	51.866	61.588	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.812	52.886	61.083	0.00	0.00
ATOM	637	CD	ARG	X	42	44.980	52.301	63.056	0.00	0.00
ATOM	638	HD2	ARG	X	42	44.289	52.289	63.899	0.00	0.00
ATOM	639	HD3	ARG	X	42	45.461	51.335	62.907	0.00	0.00
ATOM	640	NE	ARG	X	42	45.954	53.375	63.365	0.00	0.00
ATOM	641	HE	ARG	X	42	46.217	54.069	62.679	0.00	0.00
ATOM	642	CZ	ARG	X	42	46.642	53.584	64.466	0.00	0.00
ATOM	643	NH1	ARG	X	42	46.524	52.743	65.439	0.00	0.00
ATOM	644	HH11	ARG	X	42	45.983	51.892	65.385	0.00	0.00
ATOM	645	HH12	ARG	X	42	47.095	52.886	66.260	0.00	0.00
ATOM	646	NH2	ARG	X	42	47.434	54.616	64.582	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.551	55.309	63.856	0.00	0.00
ATOM	648	HH22	ARG	X	42	47.943	54.772	65.440	0.00	0.00
ATOM	649	C	ARG	X	42	40.931	53.024	61.079	0.00	0.00
ATOM	650	O	ARG	X	42	40.169	53.093	62.102	0.00	0.00
ATOM	651	N	PHE	X	43	40.935	52.071	60.185	0.00	0.00
ATOM	652	H	PHE	X	43	41.513	52.227	59.372	0.00	0.00
ATOM	653	CA	PHE	X	43	39.949	50.978	60.143	0.00	0.00
ATOM	654	HA	PHE	X	43	40.257	50.220	59.423	0.00	0.00
ATOM	655	CB	PHE	X	43	39.903	50.163	61.546	0.00	0.00
ATOM	656	HB2	PHE	X	43	39.333	50.752	62.264	0.00	0.00
ATOM	657	HB3	PHE	X	43	39.470	49.186	61.333	0.00	0.00
ATOM	658	CG	PHE	X	43	41.263	49.754	62.121	0.00	0.00
ATOM	659	CD1	PHE	X	43	42.141	48.877	61.403	0.00	0.00
ATOM	660	HD1	PHE	X	43	41.924	48.778	60.350	0.00	0.00
ATOM	661	CE1	PHE	X	43	43.307	48.386	61.972	0.00	0.00
ATOM	662	HE1	PHE	X	43	43.955	47.740	61.397	0.00	0.00
ATOM	663	CZ	PHE	X	43	43.686	48.758	63.262	0.00	0.00
ATOM	664	HZ	PHE	X	43	44.591	48.319	63.656	0.00	0.00
ATOM	665	CE2	PHE	X	43	42.978	49.733	63.939	0.00	0.00
ATOM	666	HE2	PHE	X	43	43.294	49.973	64.943	0.00	0.00
ATOM	667	CD2	PHE	X	43	41.695	50.132	63.427	0.00	0.00

ATOM	668	HD2	PHE	X	43	41.049	50.753	64.030	0.00	0.00
ATOM	669	C	PHE	X	43	38.534	51.435	59.727	0.00	0.00
ATOM	670	O	PHE	X	43	37.606	50.640	59.704	0.00	0.00
ATOM	671	N	LEU	X	44	38.351	52.756	59.499	0.00	0.00
ATOM	672	H	LEU	X	44	39.092	53.428	59.641	0.00	0.00
ATOM	673	CA	LEU	X	44	37.062	53.312	59.062	0.00	0.00
ATOM	674	HA	LEU	X	44	36.341	52.551	59.359	0.00	0.00
ATOM	675	CB	LEU	X	44	36.666	54.548	59.909	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.266	55.421	59.653	0.00	0.00
ATOM	677	HB3	LEU	X	44	35.735	54.944	59.502	0.00	0.00
ATOM	678	CG	LEU	X	44	36.648	54.401	61.481	0.00	0.00
ATOM	679	HG	LEU	X	44	37.658	54.345	61.887	0.00	0.00
ATOM	680	CD1	LEU	X	44	36.086	55.619	62.215	0.00	0.00
ATOM	681	HD11	LEU	X	44	36.056	55.424	63.287	0.00	0.00
ATOM	682	HD12	LEU	X	44	36.628	56.543	62.015	0.00	0.00
ATOM	683	HD13	LEU	X	44	35.085	55.871	61.863	0.00	0.00
ATOM	684	CD2	LEU	X	44	35.838	53.180	61.934	0.00	0.00
ATOM	685	HD21	LEU	X	44	34.829	53.168	61.522	0.00	0.00
ATOM	686	HD22	LEU	X	44	36.322	52.240	61.671	0.00	0.00
ATOM	687	HD23	LEU	X	44	35.687	53.188	63.013	0.00	0.00
ATOM	688	C	LEU	X	44	37.048	53.676	57.527	0.00	0.00
ATOM	689	O	LEU	X	44	38.085	54.014	56.911	0.00	0.00
ATOM	690	N	PRO	X	45	35.850	53.814	56.983	0.00	0.00
ATOM	691	CD	PRO	X	45	34.538	53.337	57.421	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.084	54.263	57.776	0.00	0.00
ATOM	693	HD3	PRO	X	45	34.450	52.633	58.248	0.00	0.00
ATOM	694	CG	PRO	X	45	33.868	52.837	56.113	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.780	52.787	56.164	0.00	0.00
ATOM	696	HG3	PRO	X	45	34.212	51.846	55.819	0.00	0.00
ATOM	697	CB	PRO	X	45	34.385	53.860	55.150	0.00	0.00
ATOM	698	HB2	PRO	X	45	33.815	54.786	55.226	0.00	0.00
ATOM	699	HB3	PRO	X	45	34.428	53.335	54.196	0.00	0.00
ATOM	700	CA	PRO	X	45	35.772	54.276	55.606	0.00	0.00
ATOM	701	HA	PRO	X	45	36.429	53.527	55.164	0.00	0.00
ATOM	702	C	PRO	X	45	36.072	55.826	55.475	0.00	0.00
ATOM	703	O	PRO	X	45	35.906	56.532	56.432	0.00	0.00
ATOM	704	N	PRO	X	46	36.523	56.275	54.259	0.00	0.00
ATOM	705	CD	PRO	X	46	36.467	55.639	52.990	0.00	0.00
ATOM	706	HD2	PRO	X	46	35.437	55.457	52.685	0.00	0.00
ATOM	707	HD3	PRO	X	46	36.989	54.688	53.093	0.00	0.00
ATOM	708	CG	PRO	X	46	37.164	56.453	51.874	0.00	0.00
ATOM	709	HG2	PRO	X	46	36.453	56.832	51.140	0.00	0.00
ATOM	710	HG3	PRO	X	46	37.825	55.815	51.289	0.00	0.00
ATOM	711	CB	PRO	X	46	37.954	57.429	52.689	0.00	0.00
ATOM	712	HB2	PRO	X	46	37.968	58.375	52.147	0.00	0.00
ATOM	713	HB3	PRO	X	46	38.942	57.042	52.940	0.00	0.00
ATOM	714	CA	PRO	X	46	37.145	57.599	54.005	0.00	0.00
ATOM	715	HA	PRO	X	46	37.788	57.935	54.818	0.00	0.00
ATOM	716	C	PRO	X	46	36.080	58.720	53.846	0.00	0.00
ATOM	717	O	PRO	X	46	34.899	58.419	53.555	0.00	0.00
ATOM	718	N	GLU	X	47	36.525	59.960	53.987	0.00	0.00
ATOM	719	H	GLU	X	47	37.519	60.056	54.138	0.00	0.00
ATOM	720	CA	GLU	X	47	35.809	61.225	53.891	0.00	0.00
ATOM	721	HA	GLU	X	47	34.776	60.973	53.652	0.00	0.00
ATOM	722	CB	GLU	X	47	35.704	62.023	55.188	0.00	0.00
ATOM	723	HB2	GLU	X	47	36.621	62.192	55.752	0.00	0.00
ATOM	724	HB3	GLU	X	47	35.355	63.028	54.950	0.00	0.00
ATOM	725	CG	GLU	X	47	34.709	61.294	56.093	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.877	60.963	55.471	0.00	0.00
ATOM	727	HG3	GLU	X	47	35.222	60.389	56.418	0.00	0.00
ATOM	728	CD	GLU	X	47	34.253	62.189	57.263	0.00	0.00
ATOM	729	OE1	GLU	X	47	33.194	61.909	57.804	0.00	0.00
ATOM	730	OE2	GLU	X	47	34.958	63.138	57.616	0.00	0.00
ATOM	731	C	GLU	X	47	36.407	62.051	52.770	0.00	0.00
ATOM	732	O	GLU	X	47	37.663	62.074	52.670	0.00	0.00
ATOM	733	N	PRO	X	48	35.599	62.919	52.099	0.00	0.00
ATOM	734	CD	PRO	X	48	34.124	62.906	51.994	0.00	0.00
ATOM	735	HD2	PRO	X	48	33.695	63.252	52.934	0.00	0.00
ATOM	736	HD3	PRO	X	48	33.774	61.903	51.750	0.00	0.00
ATOM	737	CG	PRO	X	48	33.754	63.789	50.836	0.00	0.00

ATOM	738	HG2	PRO	X	48	33.193	64.665	51.164	0.00	0.00
ATOM	739	HG3	PRO	X	48	33.105	63.206	50.183	0.00	0.00
ATOM	740	CB	PRO	X	48	35.004	64.128	50.022	0.00	0.00
ATOM	741	HB2	PRO	X	48	34.944	65.203	49.851	0.00	0.00
ATOM	742	HB3	PRO	X	48	35.101	63.486	49.146	0.00	0.00
ATOM	743	CA	PRO	X	48	36.128	63.658	50.879	0.00	0.00
ATOM	744	HA	PRO	X	48	36.743	62.994	50.272	0.00	0.00
ATOM	745	C	PRO	X	48	36.946	64.822	51.293	0.00	0.00
ATOM	746	O	PRO	X	48	36.732	65.284	52.430	0.00	0.00
ATOM	747	N	LYS	X	49	37.858	65.288	50.425	0.00	0.00
ATOM	748	H	LYS	X	49	38.070	64.873	49.529	0.00	0.00
ATOM	749	CA	LYS	X	49	38.830	66.406	50.800	0.00	0.00
ATOM	750	HA	LYS	X	49	39.083	66.197	51.839	0.00	0.00
ATOM	751	CB	LYS	X	49	40.052	66.361	49.824	0.00	0.00
ATOM	752	HB2	LYS	X	49	40.628	65.485	50.121	0.00	0.00
ATOM	753	HB3	LYS	X	49	39.653	66.192	48.824	0.00	0.00
ATOM	754	CG	LYS	X	49	40.972	67.587	50.016	0.00	0.00
ATOM	755	HG2	LYS	X	49	41.844	67.277	49.440	0.00	0.00
ATOM	756	HG3	LYS	X	49	40.512	68.494	49.622	0.00	0.00
ATOM	757	CD	LYS	X	49	41.540	67.817	51.429	0.00	0.00
ATOM	758	HD2	LYS	X	49	40.885	68.483	51.990	0.00	0.00
ATOM	759	HD3	LYS	X	49	41.397	66.867	51.945	0.00	0.00
ATOM	760	CE	LYS	X	49	43.012	68.170	51.543	0.00	0.00
ATOM	761	HE2	LYS	X	49	43.568	67.449	50.943	0.00	0.00
ATOM	762	HE3	LYS	X	49	43.111	69.103	50.989	0.00	0.00
ATOM	763	NZ	LYS	X	49	43.444	68.268	52.915	0.00	0.00
ATOM	764	HZ1	LYS	X	49	42.867	68.832	53.522	0.00	0.00
ATOM	765	HZ2	LYS	X	49	43.488	67.326	53.278	0.00	0.00
ATOM	766	HZ3	LYS	X	49	44.338	68.715	53.057	0.00	0.00
ATOM	767	C	LYS	X	49	38.063	67.804	50.787	0.00	0.00
ATOM	768	O	LYS	X	49	37.508	68.240	49.809	0.00	0.00
ATOM	769	N	GLN	X	50	38.226	68.637	51.843	0.00	0.00
ATOM	770	H	GLN	X	50	38.805	68.297	52.597	0.00	0.00
ATOM	771	CA	GLN	X	50	37.617	69.965	51.903	0.00	0.00
ATOM	772	HA	GLN	X	50	36.577	70.091	51.603	0.00	0.00
ATOM	773	CB	GLN	X	50	37.763	70.605	53.305	0.00	0.00
ATOM	774	HB2	GLN	X	50	38.774	70.410	53.663	0.00	0.00
ATOM	775	HB3	GLN	X	50	37.544	71.657	53.117	0.00	0.00
ATOM	776	CG	GLN	X	50	36.809	70.064	54.380	0.00	0.00
ATOM	777	HG2	GLN	X	50	37.357	69.190	54.732	0.00	0.00
ATOM	778	HG3	GLN	X	50	36.862	70.770	55.208	0.00	0.00
ATOM	779	CD	GLN	X	50	35.320	69.934	53.916	0.00	0.00
ATOM	780	OE1	GLN	X	50	34.911	69.030	53.214	0.00	0.00
ATOM	781	NE2	GLN	X	50	34.510	70.914	54.146	0.00	0.00
ATOM	782	HE21	GLN	X	50	33.651	70.987	53.620	0.00	0.00
ATOM	783	HE22	GLN	X	50	34.876	71.772	54.534	0.00	0.00
ATOM	784	C	GLN	X	50	38.315	70.924	50.870	0.00	0.00
ATOM	785	O	GLN	X	50	39.524	70.854	50.762	0.00	0.00
ATOM	786	N	PRO	X	51	37.627	71.762	50.123	0.00	0.00
ATOM	787	CD	PRO	X	51	36.186	72.067	50.245	0.00	0.00
ATOM	788	HD2	PRO	X	51	36.004	72.185	51.313	0.00	0.00
ATOM	789	HD3	PRO	X	51	35.529	71.303	49.830	0.00	0.00
ATOM	790	CG	PRO	X	51	35.903	73.409	49.572	0.00	0.00
ATOM	791	HG2	PRO	X	51	36.160	74.204	50.273	0.00	0.00
ATOM	792	HG3	PRO	X	51	34.847	73.519	49.325	0.00	0.00
ATOM	793	CB	PRO	X	51	36.903	73.195	48.390	0.00	0.00
ATOM	794	HB2	PRO	X	51	37.166	74.041	47.756	0.00	0.00
ATOM	795	HB3	PRO	X	51	36.521	72.380	47.775	0.00	0.00
ATOM	796	CA	PRO	X	51	38.139	72.628	49.024	0.00	0.00
ATOM	797	HA	PRO	X	51	38.687	72.001	48.320	0.00	0.00
ATOM	798	C	PRO	X	51	39.032	73.717	49.582	0.00	0.00
ATOM	799	O	PRO	X	51	38.951	74.087	50.768	0.00	0.00
ATOM	800	N	TRP	X	52	39.954	74.255	48.778	0.00	0.00
ATOM	801	H	TRP	X	52	39.898	74.176	47.772	0.00	0.00
ATOM	802	CA	TRP	X	52	41.102	74.978	49.197	0.00	0.00
ATOM	803	HA	TRP	X	52	40.923	75.309	50.220	0.00	0.00
ATOM	804	CB	TRP	X	52	42.297	74.007	49.333	0.00	0.00
ATOM	805	HB2	TRP	X	52	42.967	74.623	49.932	0.00	0.00
ATOM	806	HB3	TRP	X	52	41.914	73.175	49.925	0.00	0.00
ATOM	807	CG	TRP	X	52	42.912	73.655	48.039	0.00	0.00

ATOM	808	CD1	TRP	X	52	43.688	74.430	47.260	0.00	0.00
ATOM	809	HD1	TRP	X	52	44.008	75.428	47.519	0.00	0.00
ATOM	810	NE1	TRP	X	52	44.067	73.721	46.144	0.00	0.00
ATOM	811	HE1	TRP	X	52	44.602	74.240	45.463	0.00	0.00
ATOM	812	CE2	TRP	X	52	43.435	72.533	46.029	0.00	0.00
ATOM	813	CZ2	TRP	X	52	43.376	71.573	45.022	0.00	0.00
ATOM	814	HZ2	TRP	X	52	43.805	71.696	44.038	0.00	0.00
ATOM	815	CH2	TRP	X	52	42.782	70.329	45.297	0.00	0.00
ATOM	816	HH2	TRP	X	52	42.689	69.601	44.504	0.00	0.00
ATOM	817	CZ3	TRP	X	52	42.147	70.165	46.562	0.00	0.00
ATOM	818	HZ3	TRP	X	52	41.499	69.314	46.708	0.00	0.00
ATOM	819	CE3	TRP	X	52	41.995	71.234	47.464	0.00	0.00
ATOM	820	HE3	TRP	X	52	41.425	71.105	48.373	0.00	0.00
ATOM	821	CD2	TRP	X	52	42.782	72.401	47.276	0.00	0.00
ATOM	822	C	TRP	X	52	41.433	76.150	48.322	0.00	0.00
ATOM	823	O	TRP	X	52	41.314	76.080	47.097	0.00	0.00
ATOM	824	N	SER	X	53	41.719	77.297	48.947	0.00	0.00
ATOM	825	H	SER	X	53	41.529	77.312	49.938	0.00	0.00
ATOM	826	CA	SER	X	53	41.849	78.587	48.280	0.00	0.00
ATOM	827	HA	SER	X	53	40.982	78.709	47.631	0.00	0.00
ATOM	828	CB	SER	X	53	41.698	79.552	49.382	0.00	0.00
ATOM	829	HB2	SER	X	53	42.509	79.630	50.105	0.00	0.00
ATOM	830	HB3	SER	X	53	41.624	80.506	48.859	0.00	0.00
ATOM	831	OG	SER	X	53	40.405	79.601	49.917	0.00	0.00
ATOM	832	HG	SER	X	53	40.174	80.532	49.958	0.00	0.00
ATOM	833	C	SER	X	53	43.142	78.629	47.476	0.00	0.00
ATOM	834	O	SER	X	53	43.054	79.391	46.490	0.00	0.00
ATOM	835	N	GLY	X	54	44.191	77.857	47.879	0.00	0.00
ATOM	836	H	GLY	X	54	44.085	77.468	48.805	0.00	0.00
ATOM	837	CA	GLY	X	54	45.447	77.917	47.147	0.00	0.00
ATOM	838	HA2	GLY	X	54	45.563	78.945	46.612	0.00	0.00
ATOM	839	HA3	GLY	X	54	46.179	77.789	47.958	0.00	0.00
ATOM	840	C	GLY	X	54	45.730	76.719	46.184	0.00	0.00
ATOM	841	O	GLY	X	54	44.864	76.506	45.393	0.00	0.00
ATOM	842	N	VAL	X	55	46.933	76.169	46.190	0.00	0.00
ATOM	843	H	VAL	X	55	47.584	76.289	46.953	0.00	0.00
ATOM	844	CA	VAL	X	55	47.489	75.371	45.126	0.00	0.00
ATOM	845	HA	VAL	X	55	46.701	75.178	44.398	0.00	0.00
ATOM	846	CB	VAL	X	55	48.590	76.220	44.386	0.00	0.00
ATOM	847	HB	VAL	X	55	49.535	76.292	44.925	0.00	0.00
ATOM	848	CG1	VAL	X	55	49.009	75.472	43.056	0.00	0.00
ATOM	849	HG11	VAL	X	55	49.371	74.460	43.238	0.00	0.00
ATOM	850	HG12	VAL	X	55	48.231	75.464	42.292	0.00	0.00
ATOM	851	HG13	VAL	X	55	49.915	75.928	42.657	0.00	0.00
ATOM	852	CG2	VAL	X	55	48.206	77.588	43.805	0.00	0.00
ATOM	853	HG21	VAL	X	55	47.301	77.679	43.204	0.00	0.00
ATOM	854	HG22	VAL	X	55	48.086	78.221	44.685	0.00	0.00
ATOM	855	HG23	VAL	X	55	49.035	78.092	43.309	0.00	0.00
ATOM	856	C	VAL	X	55	48.069	74.023	45.538	0.00	0.00
ATOM	857	O	VAL	X	55	48.987	73.963	46.331	0.00	0.00
ATOM	858	N	VAL	X	56	47.564	72.878	45.047	0.00	0.00
ATOM	859	H	VAL	X	56	46.816	72.924	44.370	0.00	0.00
ATOM	860	CA	VAL	X	56	48.215	71.638	45.125	0.00	0.00
ATOM	861	HA	VAL	X	56	48.504	71.482	46.165	0.00	0.00
ATOM	862	CB	VAL	X	56	47.253	70.427	44.687	0.00	0.00
ATOM	863	HB	VAL	X	56	46.791	70.622	43.719	0.00	0.00
ATOM	864	CG1	VAL	X	56	48.048	69.160	44.512	0.00	0.00
ATOM	865	HG11	VAL	X	56	48.776	69.186	43.701	0.00	0.00
ATOM	866	HG12	VAL	X	56	48.571	69.056	45.463	0.00	0.00
ATOM	867	HG13	VAL	X	56	47.365	68.337	44.301	0.00	0.00
ATOM	868	CG2	VAL	X	56	46.186	70.327	45.808	0.00	0.00
ATOM	869	HG21	VAL	X	56	45.774	71.332	45.892	0.00	0.00
ATOM	870	HG22	VAL	X	56	45.475	69.545	45.542	0.00	0.00
ATOM	871	HG23	VAL	X	56	46.723	70.055	46.717	0.00	0.00
ATOM	872	C	VAL	X	56	49.471	71.657	44.252	0.00	0.00
ATOM	873	O	VAL	X	56	49.400	71.823	43.017	0.00	0.00
ATOM	874	N	ASP	X	57	50.669	71.505	44.802	0.00	0.00
ATOM	875	H	ASP	X	57	50.729	71.357	45.799	0.00	0.00
ATOM	876	CA	ASP	X	57	51.815	71.034	44.046	0.00	0.00
ATOM	877	HA	ASP	X	57	51.796	71.638	43.139	0.00	0.00

ATOM	878	CB	ASP	X	57	53.089	71.373	44.847	0.00	0.00
ATOM	879	HB2	ASP	X	57	52.994	72.421	45.133	0.00	0.00
ATOM	880	HB3	ASP	X	57	53.090	70.816	45.784	0.00	0.00
ATOM	881	CG	ASP	X	57	54.438	71.072	44.101	0.00	0.00
ATOM	882	OD1	ASP	X	57	55.490	71.491	44.553	0.00	0.00
ATOM	883	OD2	ASP	X	57	54.308	70.549	42.961	0.00	0.00
ATOM	884	C	ASP	X	57	51.753	69.586	43.814	0.00	0.00
ATOM	885	O	ASP	X	57	51.960	68.733	44.678	0.00	0.00
ATOM	886	N	ALA	X	58	51.453	69.245	42.524	0.00	0.00
ATOM	887	H	ALA	X	58	51.307	69.984	41.852	0.00	0.00
ATOM	888	CA	ALA	X	58	51.389	67.897	41.940	0.00	0.00
ATOM	889	HA	ALA	X	58	51.464	67.254	42.817	0.00	0.00
ATOM	890	CB	ALA	X	58	50.021	67.652	41.242	0.00	0.00
ATOM	891	HB1	ALA	X	58	49.781	66.596	41.119	0.00	0.00
ATOM	892	HB2	ALA	X	58	49.201	68.115	41.791	0.00	0.00
ATOM	893	HB3	ALA	X	58	50.055	68.100	40.249	0.00	0.00
ATOM	894	C	ALA	X	58	52.589	67.534	41.039	0.00	0.00
ATOM	895	O	ALA	X	58	52.458	66.806	40.038	0.00	0.00
ATOM	896	N	THR	X	59	53.816	68.002	41.298	0.00	0.00
ATOM	897	H	THR	X	59	53.779	68.713	42.015	0.00	0.00
ATOM	898	CA	THR	X	59	55.037	67.866	40.398	0.00	0.00
ATOM	899	HA	THR	X	59	54.683	67.633	39.394	0.00	0.00
ATOM	900	CB	THR	X	59	55.902	69.170	40.402	0.00	0.00
ATOM	901	HB	THR	X	59	56.829	69.137	39.828	0.00	0.00
ATOM	902	CG2	THR	X	59	55.080	70.382	39.873	0.00	0.00
ATOM	903	HG21	THR	X	59	54.293	70.608	40.592	0.00	0.00
ATOM	904	HG22	THR	X	59	55.722	71.254	39.747	0.00	0.00
ATOM	905	HG23	THR	X	59	54.487	70.187	38.980	0.00	0.00
ATOM	906	OG1	THR	X	59	56.376	69.390	41.667	0.00	0.00
ATOM	907	HG1	THR	X	59	55.735	69.911	42.156	0.00	0.00
ATOM	908	C	THR	X	59	55.918	66.640	40.769	0.00	0.00
ATOM	909	O	THR	X	59	56.906	66.361	40.111	0.00	0.00
ATOM	910	N	THR	X	60	55.543	65.861	41.814	0.00	0.00
ATOM	911	H	THR	X	60	54.676	66.121	42.262	0.00	0.00
ATOM	912	CA	THR	X	60	56.108	64.585	42.314	0.00	0.00
ATOM	913	HA	THR	X	60	56.182	63.833	41.529	0.00	0.00
ATOM	914	CB	THR	X	60	57.529	64.831	42.867	0.00	0.00
ATOM	915	HB	THR	X	60	58.119	65.551	42.299	0.00	0.00
ATOM	916	CG2	THR	X	60	57.507	65.416	44.239	0.00	0.00
ATOM	917	HG21	THR	X	60	56.961	64.811	44.963	0.00	0.00
ATOM	918	HG22	THR	X	60	58.459	65.376	44.769	0.00	0.00
ATOM	919	HG23	THR	X	60	57.076	66.415	44.301	0.00	0.00
ATOM	920	OG1	THR	X	60	58.278	63.616	42.969	0.00	0.00
ATOM	921	HG1	THR	X	60	58.639	63.611	42.079	0.00	0.00
ATOM	922	C	THR	X	60	55.196	63.968	43.281	0.00	0.00
ATOM	923	O	THR	X	60	54.324	64.732	43.792	0.00	0.00
ATOM	924	N	PHE	X	61	55.391	62.713	43.653	0.00	0.00
ATOM	925	H	PHE	X	61	56.147	62.123	43.336	0.00	0.00
ATOM	926	CA	PHE	X	61	54.517	61.939	44.590	0.00	0.00
ATOM	927	HA	PHE	X	61	53.466	61.951	44.302	0.00	0.00
ATOM	928	CB	PHE	X	61	54.955	60.472	44.565	0.00	0.00
ATOM	929	HB2	PHE	X	61	55.949	60.368	44.999	0.00	0.00
ATOM	930	HB3	PHE	X	61	54.356	59.807	45.187	0.00	0.00
ATOM	931	CG	PHE	X	61	54.913	59.939	43.162	0.00	0.00
ATOM	932	CD1	PHE	X	61	53.671	59.403	42.683	0.00	0.00
ATOM	933	HD1	PHE	X	61	52.731	59.430	43.214	0.00	0.00
ATOM	934	CE1	PHE	X	61	53.649	59.009	41.300	0.00	0.00
ATOM	935	HE1	PHE	X	61	52.707	58.590	40.979	0.00	0.00
ATOM	936	CZ	PHE	X	61	54.686	59.096	40.427	0.00	0.00
ATOM	937	HZ	PHE	X	61	54.570	58.829	39.387	0.00	0.00
ATOM	938	CE2	PHE	X	61	55.897	59.578	40.959	0.00	0.00
ATOM	939	HE2	PHE	X	61	56.766	59.715	40.333	0.00	0.00
ATOM	940	CD2	PHE	X	61	56.037	60.021	42.266	0.00	0.00
ATOM	941	HD2	PHE	X	61	57.051	60.302	42.510	0.00	0.00
ATOM	942	C	PHE	X	61	54.496	62.425	46.052	0.00	0.00
ATOM	943	O	PHE	X	61	55.259	63.293	46.417	0.00	0.00
ATOM	944	N	GLN	X	62	53.683	61.898	46.930	0.00	0.00
ATOM	945	H	GLN	X	62	53.132	61.144	46.546	0.00	0.00
ATOM	946	CA	GLN	X	62	53.574	62.130	48.406	0.00	0.00
ATOM	947	HA	GLN	X	62	54.379	62.802	48.702	0.00	0.00

ATOM	948	CB	GLN	X	62	52.137	62.690	48.700	0.00	0.00
ATOM	949	HB2	GLN	X	62	51.366	61.946	48.500	0.00	0.00
ATOM	950	HB3	GLN	X	62	52.036	62.846	49.774	0.00	0.00
ATOM	951	CG	GLN	X	62	51.876	64.050	48.068	0.00	0.00
ATOM	952	HG2	GLN	X	62	51.888	63.854	46.995	0.00	0.00
ATOM	953	HG3	GLN	X	62	50.828	64.319	48.194	0.00	0.00
ATOM	954	CD	GLN	X	62	52.714	65.258	48.509	0.00	0.00
ATOM	955	OE1	GLN	X	62	53.713	65.098	49.204	0.00	0.00
ATOM	956	NE2	GLN	X	62	52.478	66.464	48.010	0.00	0.00
ATOM	957	HE21	GLN	X	62	53.206	67.148	48.160	0.00	0.00
ATOM	958	HE22	GLN	X	62	51.612	66.600	47.508	0.00	0.00
ATOM	959	C	GLN	X	62	53.906	60.773	49.148	0.00	0.00
ATOM	960	O	GLN	X	62	54.697	59.983	48.573	0.00	0.00
ATOM	961	N	SER	X	63	53.409	60.488	50.369	0.00	0.00
ATOM	962	H	SER	X	63	52.884	61.261	50.751	0.00	0.00
ATOM	963	CA	SER	X	63	53.739	59.384	51.228	0.00	0.00
ATOM	964	HA	SER	X	63	54.760	59.144	50.930	0.00	0.00
ATOM	965	CB	SER	X	63	53.799	59.802	52.781	0.00	0.00
ATOM	966	HB2	SER	X	63	53.880	58.861	53.326	0.00	0.00
ATOM	967	HB3	SER	X	63	54.715	60.362	52.969	0.00	0.00
ATOM	968	OG	SER	X	63	52.696	60.677	53.089	0.00	0.00
ATOM	969	HG	SER	X	63	52.020	60.140	53.509	0.00	0.00
ATOM	970	C	SER	X	63	52.800	58.170	50.903	0.00	0.00
ATOM	971	O	SER	X	63	51.827	58.280	50.257	0.00	0.00
ATOM	972	N	VAL	X	64	53.204	56.942	51.376	0.00	0.00
ATOM	973	H	VAL	X	64	54.082	56.849	51.866	0.00	0.00
ATOM	974	CA	VAL	X	64	52.379	55.769	51.156	0.00	0.00
ATOM	975	HA	VAL	X	64	51.371	56.034	50.835	0.00	0.00
ATOM	976	CB	VAL	X	64	53.099	54.823	50.076	0.00	0.00
ATOM	977	HB	VAL	X	64	53.362	55.457	49.230	0.00	0.00
ATOM	978	CG1	VAL	X	64	54.343	54.063	50.557	0.00	0.00
ATOM	979	HG11	VAL	X	64	55.186	54.647	50.927	0.00	0.00
ATOM	980	HG12	VAL	X	64	54.167	53.232	51.239	0.00	0.00
ATOM	981	HG13	VAL	X	64	54.664	53.641	49.605	0.00	0.00
ATOM	982	CG2	VAL	X	64	52.134	53.737	49.508	0.00	0.00
ATOM	983	HG21	VAL	X	64	51.233	54.243	49.160	0.00	0.00
ATOM	984	HG22	VAL	X	64	52.713	53.357	48.666	0.00	0.00
ATOM	985	HG23	VAL	X	64	51.919	53.019	50.300	0.00	0.00
ATOM	986	C	VAL	X	64	52.071	55.013	52.431	0.00	0.00
ATOM	987	O	VAL	X	64	52.833	55.088	53.381	0.00	0.00
ATOM	988	N	CYX	X	65	51.022	54.138	52.481	0.00	0.00
ATOM	989	H	CYX	X	65	50.323	54.086	51.753	0.00	0.00
ATOM	990	CA	CYX	X	65	50.608	53.614	53.772	0.00	0.00
ATOM	991	HA	CYX	X	65	50.408	54.407	54.492	0.00	0.00
ATOM	992	CB	CYX	X	65	49.273	52.996	53.691	0.00	0.00
ATOM	993	HB2	CYX	X	65	49.399	51.916	53.621	0.00	0.00
ATOM	994	HB3	CYX	X	65	48.781	53.145	54.652	0.00	0.00
ATOM	995	SG	CYX	X	65	48.150	53.589	52.413	0.00	0.00
ATOM	996	C	CYX	X	65	51.622	52.718	54.467	0.00	0.00
ATOM	997	O	CYX	X	65	52.362	51.929	53.845	0.00	0.00
ATOM	998	N	TYR	X	66	51.597	52.627	55.833	0.00	0.00
ATOM	999	H	TYR	X	66	51.047	53.314	56.328	0.00	0.00
ATOM	1000	CA	TYR	X	66	52.309	51.581	56.629	0.00	0.00
ATOM	1001	HA	TYR	X	66	53.352	51.863	56.486	0.00	0.00
ATOM	1002	CB	TYR	X	66	52.055	51.652	58.141	0.00	0.00
ATOM	1003	HB2	TYR	X	66	51.013	51.943	58.270	0.00	0.00
ATOM	1004	HB3	TYR	X	66	52.290	50.668	58.546	0.00	0.00
ATOM	1005	CG	TYR	X	66	52.921	52.792	58.773	0.00	0.00
ATOM	1006	CD1	TYR	X	66	52.336	53.977	59.243	0.00	0.00
ATOM	1007	HD1	TYR	X	66	51.261	54.067	59.189	0.00	0.00
ATOM	1008	CE1	TYR	X	66	53.112	54.984	59.728	0.00	0.00
ATOM	1009	HE1	TYR	X	66	52.672	55.907	60.074	0.00	0.00
ATOM	1010	CZ	TYR	X	66	54.496	54.882	59.771	0.00	0.00
ATOM	1011	OH	TYR	X	66	55.258	55.892	60.259	0.00	0.00
ATOM	1012	HH	TYR	X	66	54.749	56.706	60.253	0.00	0.00
ATOM	1013	CE2	TYR	X	66	55.133	53.638	59.345	0.00	0.00
ATOM	1014	HE2	TYR	X	66	56.202	53.560	59.478	0.00	0.00
ATOM	1015	CD2	TYR	X	66	54.320	52.638	58.793	0.00	0.00
ATOM	1016	HD2	TYR	X	66	54.630	51.630	58.560	0.00	0.00
ATOM	1017	C	TYR	X	66	51.989	50.156	56.074	0.00	0.00

ATOM	1018	O	TYR	X	66	50.826	49.766	55.958	0.00	0.00
ATOM	1019	N	GLN	X	67	53.039	49.360	55.765	0.00	0.00
ATOM	1020	H	GLN	X	67	53.927	49.837	55.818	0.00	0.00
ATOM	1021	CA	GLN	X	67	53.055	47.979	55.163	0.00	0.00
ATOM	1022	HA	GLN	X	67	52.200	47.452	55.587	0.00	0.00
ATOM	1023	CB	GLN	X	67	52.904	48.044	53.643	0.00	0.00
ATOM	1024	HB2	GLN	X	67	52.920	47.006	53.313	0.00	0.00
ATOM	1025	HB3	GLN	X	67	51.947	48.528	53.445	0.00	0.00
ATOM	1026	CG	GLN	X	67	54.018	48.894	52.936	0.00	0.00
ATOM	1027	HG2	GLN	X	67	54.470	49.657	53.571	0.00	0.00
ATOM	1028	HG3	GLN	X	67	54.841	48.189	52.819	0.00	0.00
ATOM	1029	CD	GLN	X	67	53.622	49.361	51.527	0.00	0.00
ATOM	1030	OE1	GLN	X	67	53.873	48.692	50.539	0.00	0.00
ATOM	1031	NE2	GLN	X	67	53.001	50.502	51.312	0.00	0.00
ATOM	1032	HE21	GLN	X	67	52.581	50.650	50.406	0.00	0.00
ATOM	1033	HE22	GLN	X	67	52.884	51.223	52.010	0.00	0.00
ATOM	1034	C	GLN	X	67	54.452	47.283	55.488	0.00	0.00
ATOM	1035	O	GLN	X	67	55.332	47.923	56.038	0.00	0.00
ATOM	1036	N	TYR	X	68	54.611	45.995	55.259	0.00	0.00
ATOM	1037	H	TYR	X	68	53.830	45.454	54.916	0.00	0.00
ATOM	1038	CA	TYR	X	68	55.777	45.144	55.726	0.00	0.00
ATOM	1039	HA	TYR	X	68	56.200	45.470	56.676	0.00	0.00
ATOM	1040	CB	TYR	X	68	55.314	43.727	55.778	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.407	43.643	56.378	0.00	0.00
ATOM	1042	HB3	TYR	X	68	55.122	43.463	54.738	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.438	42.873	56.308	0.00	0.00
ATOM	1044	CD1	TYR	X	68	56.447	42.528	57.666	0.00	0.00
ATOM	1045	HD1	TYR	X	68	55.603	42.812	58.278	0.00	0.00
ATOM	1046	CE1	TYR	X	68	57.495	41.824	58.200	0.00	0.00
ATOM	1047	HE1	TYR	X	68	57.476	41.625	59.261	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.603	41.454	57.413	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.656	40.796	58.000	0.00	0.00
ATOM	1050	HH	TYR	X	68	59.435	40.577	58.908	0.00	0.00
ATOM	1051	CE2	TYR	X	68	58.590	41.745	56.029	0.00	0.00
ATOM	1052	HE2	TYR	X	68	59.367	41.350	55.390	0.00	0.00
ATOM	1053	CD2	TYR	X	68	57.510	42.408	55.474	0.00	0.00
ATOM	1054	HD2	TYR	X	68	57.571	42.569	54.408	0.00	0.00
ATOM	1055	C	TYR	X	68	56.874	45.511	54.719	0.00	0.00
ATOM	1056	O	TYR	X	68	56.653	45.250	53.532	0.00	0.00
ATOM	1057	N	VAL	X	69	58.092	45.876	55.186	0.00	0.00
ATOM	1058	H	VAL	X	69	58.158	46.304	56.098	0.00	0.00
ATOM	1059	CA	VAL	X	69	59.217	46.058	54.263	0.00	0.00
ATOM	1060	HA	VAL	X	69	58.784	46.441	53.339	0.00	0.00
ATOM	1061	CB	VAL	X	69	60.296	47.110	54.735	0.00	0.00
ATOM	1062	HB	VAL	X	69	60.715	46.829	55.702	0.00	0.00
ATOM	1063	CG1	VAL	X	69	61.652	47.105	53.942	0.00	0.00
ATOM	1064	HG11	VAL	X	69	62.356	47.868	54.277	0.00	0.00
ATOM	1065	HG12	VAL	X	69	62.225	46.182	54.032	0.00	0.00
ATOM	1066	HG13	VAL	X	69	61.385	47.185	52.888	0.00	0.00
ATOM	1067	CG2	VAL	X	69	59.653	48.501	54.841	0.00	0.00
ATOM	1068	HG21	VAL	X	69	59.156	48.733	53.899	0.00	0.00
ATOM	1069	HG22	VAL	X	69	58.830	48.423	55.551	0.00	0.00
ATOM	1070	HG23	VAL	X	69	60.391	49.231	55.174	0.00	0.00
ATOM	1071	C	VAL	X	69	59.991	44.747	53.932	0.00	0.00
ATOM	1072	O	VAL	X	69	60.425	44.062	54.880	0.00	0.00
ATOM	1073	N	ASP	X	70	60.012	44.424	52.641	0.00	0.00
ATOM	1074	H	ASP	X	70	59.578	45.133	52.068	0.00	0.00
ATOM	1075	CA	ASP	X	70	60.690	43.208	52.131	0.00	0.00
ATOM	1076	HA	ASP	X	70	60.091	42.413	52.575	0.00	0.00
ATOM	1077	CB	ASP	X	70	60.726	43.170	50.595	0.00	0.00
ATOM	1078	HB2	ASP	X	70	59.700	43.007	50.266	0.00	0.00
ATOM	1079	HB3	ASP	X	70	61.092	44.142	50.266	0.00	0.00
ATOM	1080	CG	ASP	X	70	61.745	42.115	50.155	0.00	0.00
ATOM	1081	OD1	ASP	X	70	61.731	41.015	50.711	0.00	0.00
ATOM	1082	OD2	ASP	X	70	62.482	42.403	49.207	0.00	0.00
ATOM	1083	C	ASP	X	70	62.129	43.088	52.718	0.00	0.00
ATOM	1084	O	ASP	X	70	63.004	43.937	52.548	0.00	0.00
ATOM	1085	N	THR	X	71	62.234	42.100	53.619	0.00	0.00
ATOM	1086	H	THR	X	71	61.487	41.425	53.696	0.00	0.00
ATOM	1087	CA	THR	X	71	63.408	41.751	54.383	0.00	0.00

ATOM	1088	HA	THR	X	71	64.152	42.546	54.332	0.00	0.00
ATOM	1089	CB	THR	X	71	62.984	41.527	55.872	0.00	0.00
ATOM	1090	HB	THR	X	71	62.423	40.592	55.872	0.00	0.00
ATOM	1091	CG2	THR	X	71	64.190	41.322	56.777	0.00	0.00
ATOM	1092	HG21	THR	X	71	63.868	41.386	57.816	0.00	0.00
ATOM	1093	HG22	THR	X	71	64.502	40.289	56.621	0.00	0.00
ATOM	1094	HG23	THR	X	71	64.970	42.072	56.646	0.00	0.00
ATOM	1095	OG1	THR	X	71	62.337	42.682	56.314	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.701	43.013	55.676	0.00	0.00
ATOM	1097	C	THR	X	71	64.175	40.502	53.756	0.00	0.00
ATOM	1098	O	THR	X	71	65.264	40.095	54.210	0.00	0.00
ATOM	1099	N	LEU	X	72	63.591	39.859	52.719	0.00	0.00
ATOM	1100	H	LEU	X	72	62.703	40.115	52.312	0.00	0.00
ATOM	1101	CA	LEU	X	72	64.343	38.716	52.106	0.00	0.00
ATOM	1102	HA	LEU	X	72	65.009	38.129	52.738	0.00	0.00
ATOM	1103	CB	LEU	X	72	63.222	37.722	51.608	0.00	0.00
ATOM	1104	HB2	LEU	X	72	62.496	37.561	52.405	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.550	38.189	50.889	0.00	0.00
ATOM	1106	CG	LEU	X	72	63.693	36.343	51.110	0.00	0.00
ATOM	1107	HG	LEU	X	72	64.032	36.429	50.077	0.00	0.00
ATOM	1108	CD1	LEU	X	72	64.846	35.769	51.943	0.00	0.00
ATOM	1109	HD11	LEU	X	72	65.825	36.242	51.876	0.00	0.00
ATOM	1110	HD12	LEU	X	72	64.734	35.832	53.026	0.00	0.00
ATOM	1111	HD13	LEU	X	72	64.982	34.711	51.718	0.00	0.00
ATOM	1112	CD2	LEU	X	72	62.581	35.332	51.078	0.00	0.00
ATOM	1113	HD21	LEU	X	72	62.188	35.203	52.087	0.00	0.00
ATOM	1114	HD22	LEU	X	72	61.789	35.816	50.506	0.00	0.00
ATOM	1115	HD23	LEU	X	72	62.851	34.380	50.622	0.00	0.00
ATOM	1116	C	LEU	X	72	65.300	39.197	51.056	0.00	0.00
ATOM	1117	O	LEU	X	72	66.505	39.072	51.268	0.00	0.00
ATOM	1118	N	TYR	X	73	64.908	39.776	49.960	0.00	0.00
ATOM	1119	H	TYR	X	73	63.958	40.107	50.044	0.00	0.00
ATOM	1120	CA	TYR	X	73	65.676	40.155	48.744	0.00	0.00
ATOM	1121	HA	TYR	X	73	66.714	39.855	48.884	0.00	0.00
ATOM	1122	CB	TYR	X	73	65.047	39.356	47.595	0.00	0.00
ATOM	1123	HB2	TYR	X	73	64.111	39.842	47.321	0.00	0.00
ATOM	1124	HB3	TYR	X	73	65.553	39.663	46.680	0.00	0.00
ATOM	1125	CG	TYR	X	73	64.977	37.816	47.624	0.00	0.00
ATOM	1126	CD1	TYR	X	73	66.125	37.022	47.864	0.00	0.00
ATOM	1127	HD1	TYR	X	73	67.112	37.399	48.089	0.00	0.00
ATOM	1128	CE1	TYR	X	73	66.013	35.589	47.679	0.00	0.00
ATOM	1129	HE1	TYR	X	73	66.781	34.912	48.023	0.00	0.00
ATOM	1130	CZ	TYR	X	73	64.793	34.997	47.294	0.00	0.00
ATOM	1131	OH	TYR	X	73	64.785	33.677	47.044	0.00	0.00
ATOM	1132	HH	TYR	X	73	63.905	33.329	46.880	0.00	0.00
ATOM	1133	CE2	TYR	X	73	63.660	35.821	47.136	0.00	0.00
ATOM	1134	HE2	TYR	X	73	62.743	35.298	46.910	0.00	0.00
ATOM	1135	CD2	TYR	X	73	63.718	37.196	47.232	0.00	0.00
ATOM	1136	HD2	TYR	X	73	62.829	37.786	47.063	0.00	0.00
ATOM	1137	C	TYR	X	73	65.650	41.682	48.585	0.00	0.00
ATOM	1138	O	TYR	X	73	65.126	42.173	47.516	0.00	0.00
ATOM	1139	N	PRO	X	74	66.222	42.452	49.516	0.00	0.00
ATOM	1140	CD	PRO	X	74	66.883	42.054	50.760	0.00	0.00
ATOM	1141	HD2	PRO	X	74	67.536	41.193	50.621	0.00	0.00
ATOM	1142	HD3	PRO	X	74	66.156	41.848	51.546	0.00	0.00
ATOM	1143	CG	PRO	X	74	67.705	43.287	51.239	0.00	0.00
ATOM	1144	HG2	PRO	X	74	68.654	43.149	50.719	0.00	0.00
ATOM	1145	HG3	PRO	X	74	67.728	43.203	52.325	0.00	0.00
ATOM	1146	CB	PRO	X	74	66.975	44.471	50.688	0.00	0.00
ATOM	1147	HB2	PRO	X	74	67.597	45.346	50.497	0.00	0.00
ATOM	1148	HB3	PRO	X	74	66.248	44.757	51.449	0.00	0.00
ATOM	1149	CA	PRO	X	74	66.237	43.947	49.452	0.00	0.00
ATOM	1150	HA	PRO	X	74	65.226	44.352	49.423	0.00	0.00
ATOM	1151	C	PRO	X	74	66.920	44.366	48.155	0.00	0.00
ATOM	1152	O	PRO	X	74	68.039	44.035	47.803	0.00	0.00
ATOM	1153	N	GLY	X	75	66.241	45.220	47.439	0.00	0.00
ATOM	1154	H	GLY	X	75	65.297	45.389	47.757	0.00	0.00
ATOM	1155	CA	GLY	X	75	66.622	45.978	46.238	0.00	0.00
ATOM	1156	HA2	GLY	X	75	66.173	46.956	46.198	0.00	0.00
ATOM	1157	HA3	GLY	X	75	67.661	46.146	46.440	0.00	0.00

ATOM	1158	C	GLY	X	75	66.349	45.320	44.938	0.00	0.00
ATOM	1159	O	GLY	X	75	66.760	45.867	43.936	0.00	0.00
ATOM	1160	N	PHE	X	76	65.835	44.123	44.988	0.00	0.00
ATOM	1161	H	PHE	X	76	65.790	43.737	45.920	0.00	0.00
ATOM	1162	CA	PHE	X	76	65.670	43.260	43.804	0.00	0.00
ATOM	1163	HA	PHE	X	76	66.489	43.413	43.101	0.00	0.00
ATOM	1164	CB	PHE	X	76	65.488	41.777	44.242	0.00	0.00
ATOM	1165	HB2	PHE	X	76	66.357	41.494	44.836	0.00	0.00
ATOM	1166	HB3	PHE	X	76	64.673	41.745	44.965	0.00	0.00
ATOM	1167	CG	PHE	X	76	65.214	40.677	43.213	0.00	0.00
ATOM	1168	CD1	PHE	X	76	66.239	40.375	42.358	0.00	0.00
ATOM	1169	HD1	PHE	X	76	67.137	40.972	42.429	0.00	0.00
ATOM	1170	CE1	PHE	X	76	66.149	39.317	41.502	0.00	0.00
ATOM	1171	HE1	PHE	X	76	66.926	39.059	40.797	0.00	0.00
ATOM	1172	CZ	PHE	X	76	64.983	38.545	41.414	0.00	0.00
ATOM	1173	HZ	PHE	X	76	64.943	37.701	40.740	0.00	0.00
ATOM	1174	CE2	PHE	X	76	63.892	38.945	42.233	0.00	0.00
ATOM	1175	HE2	PHE	X	76	63.067	38.249	42.279	0.00	0.00
ATOM	1176	CD2	PHE	X	76	64.058	39.930	43.190	0.00	0.00
ATOM	1177	HD2	PHE	X	76	63.352	39.984	44.005	0.00	0.00
ATOM	1178	C	PHE	X	76	64.356	43.619	43.013	0.00	0.00
ATOM	1179	O	PHE	X	76	63.379	43.973	43.616	0.00	0.00
ATOM	1180	N	GLU	X	77	64.486	43.558	41.664	0.00	0.00
ATOM	1181	H	GLU	X	77	65.423	43.379	41.333	0.00	0.00
ATOM	1182	CA	GLU	X	77	63.383	44.042	40.761	0.00	0.00
ATOM	1183	HA	GLU	X	77	63.161	45.095	40.938	0.00	0.00
ATOM	1184	CB	GLU	X	77	64.041	44.010	39.346	0.00	0.00
ATOM	1185	HB2	GLU	X	77	64.941	44.625	39.359	0.00	0.00
ATOM	1186	HB3	GLU	X	77	64.332	42.978	39.154	0.00	0.00
ATOM	1187	CG	GLU	X	77	63.219	44.455	38.165	0.00	0.00
ATOM	1188	HG2	GLU	X	77	62.619	45.345	38.358	0.00	0.00
ATOM	1189	HG3	GLU	X	77	64.004	44.732	37.461	0.00	0.00
ATOM	1190	CD	GLU	X	77	62.363	43.419	37.465	0.00	0.00
ATOM	1191	OE1	GLU	X	77	61.259	43.868	37.120	0.00	0.00
ATOM	1192	OE2	GLU	X	77	62.794	42.292	37.240	0.00	0.00
ATOM	1193	C	GLU	X	77	62.150	43.086	40.875	0.00	0.00
ATOM	1194	O	GLU	X	77	61.009	43.472	40.573	0.00	0.00
ATOM	1195	N	GLY	X	78	62.258	41.836	41.431	0.00	0.00
ATOM	1196	H	GLY	X	78	63.170	41.404	41.451	0.00	0.00
ATOM	1197	CA	GLY	X	78	61.169	40.909	41.822	0.00	0.00
ATOM	1198	HA2	GLY	X	78	60.404	41.085	41.049	0.00	0.00
ATOM	1199	HA3	GLY	X	78	61.544	39.915	41.748	0.00	0.00
ATOM	1200	C	GLY	X	78	60.532	40.994	43.199	0.00	0.00
ATOM	1201	O	GLY	X	78	59.734	40.142	43.505	0.00	0.00
ATOM	1202	N	THR	X	79	60.884	42.024	43.948	0.00	0.00
ATOM	1203	H	THR	X	79	61.677	42.557	43.619	0.00	0.00
ATOM	1204	CA	THR	X	79	60.358	42.382	45.273	0.00	0.00
ATOM	1205	HA	THR	X	79	59.401	41.881	45.417	0.00	0.00
ATOM	1206	CB	THR	X	79	61.285	42.000	46.447	0.00	0.00
ATOM	1207	HB	THR	X	79	60.702	42.378	47.287	0.00	0.00
ATOM	1208	CG2	THR	X	79	61.402	40.464	46.610	0.00	0.00
ATOM	1209	HG21	THR	X	79	61.808	40.167	47.577	0.00	0.00
ATOM	1210	HG22	THR	X	79	60.407	40.033	46.489	0.00	0.00
ATOM	1211	HG23	THR	X	79	61.986	40.098	45.766	0.00	0.00
ATOM	1212	OG1	THR	X	79	62.533	42.627	46.314	0.00	0.00
ATOM	1213	HG1	THR	X	79	63.065	42.282	47.034	0.00	0.00
ATOM	1214	C	THR	X	79	59.962	43.830	45.373	0.00	0.00
ATOM	1215	O	THR	X	79	58.807	44.131	45.714	0.00	0.00
ATOM	1216	N	GLU	X	80	60.693	44.678	44.635	0.00	0.00
ATOM	1217	H	GLU	X	80	61.544	44.262	44.284	0.00	0.00
ATOM	1218	CA	GLU	X	80	60.326	45.941	44.111	0.00	0.00
ATOM	1219	HA	GLU	X	80	59.933	46.682	44.807	0.00	0.00
ATOM	1220	CB	GLU	X	80	61.515	46.639	43.592	0.00	0.00
ATOM	1221	HB2	GLU	X	80	62.158	46.015	42.972	0.00	0.00
ATOM	1222	HB3	GLU	X	80	61.211	47.407	42.881	0.00	0.00
ATOM	1223	CG	GLU	X	80	62.356	47.237	44.686	0.00	0.00
ATOM	1224	HG2	GLU	X	80	61.703	47.910	45.241	0.00	0.00
ATOM	1225	HG3	GLU	X	80	62.795	46.495	45.353	0.00	0.00
ATOM	1226	CD	GLU	X	80	63.551	48.095	44.134	0.00	0.00
ATOM	1227	OE1	GLU	X	80	64.229	48.783	44.990	0.00	0.00

ATOM	1228	OE2	GLU	X	80	63.735	48.351	42.982	0.00	0.00
ATOM	1229	C	GLU	X	80	59.292	45.782	43.037	0.00	0.00
ATOM	1230	O	GLU	X	80	58.849	46.824	42.581	0.00	0.00
ATOM	1231	N	MET	X	81	58.709	44.587	42.708	0.00	0.00
ATOM	1232	H	MET	X	81	59.031	43.755	43.181	0.00	0.00
ATOM	1233	CA	MET	X	81	57.387	44.416	41.962	0.00	0.00
ATOM	1234	HA	MET	X	81	57.504	44.717	40.921	0.00	0.00
ATOM	1235	CB	MET	X	81	56.896	42.934	42.028	0.00	0.00
ATOM	1236	HB2	MET	X	81	57.117	42.487	42.998	0.00	0.00
ATOM	1237	HB3	MET	X	81	55.812	42.875	41.937	0.00	0.00
ATOM	1238	CG	MET	X	81	57.650	42.114	40.916	0.00	0.00
ATOM	1239	HG2	MET	X	81	57.249	42.493	39.977	0.00	0.00
ATOM	1240	HG3	MET	X	81	58.709	42.373	40.918	0.00	0.00
ATOM	1241	SD	MET	X	81	57.611	40.286	41.038	0.00	0.00
ATOM	1242	CE	MET	X	81	55.976	39.878	40.492	0.00	0.00
ATOM	1243	HE1	MET	X	81	55.339	40.254	41.292	0.00	0.00
ATOM	1244	HE2	MET	X	81	55.787	40.489	39.609	0.00	0.00
ATOM	1245	HE3	MET	X	81	55.764	38.839	40.241	0.00	0.00
ATOM	1246	C	MET	X	81	56.400	45.285	42.678	0.00	0.00
ATOM	1247	O	MET	X	81	55.608	45.917	41.947	0.00	0.00
ATOM	1248	N	TRP	X	82	56.206	45.173	44.020	0.00	0.00
ATOM	1249	H	TRP	X	82	56.835	44.618	44.582	0.00	0.00
ATOM	1250	CA	TRP	X	82	55.193	46.020	44.735	0.00	0.00
ATOM	1251	HA	TRP	X	82	54.816	46.729	43.998	0.00	0.00
ATOM	1252	CB	TRP	X	82	54.042	45.255	45.114	0.00	0.00
ATOM	1253	HB2	TRP	X	82	54.324	44.460	45.804	0.00	0.00
ATOM	1254	HB3	TRP	X	82	53.403	45.898	45.719	0.00	0.00
ATOM	1255	CG	TRP	X	82	53.347	44.416	44.041	0.00	0.00
ATOM	1256	CD1	TRP	X	82	53.233	43.017	44.039	0.00	0.00
ATOM	1257	HD1	TRP	X	82	53.635	42.373	44.808	0.00	0.00
ATOM	1258	NE1	TRP	X	82	52.348	42.612	43.088	0.00	0.00
ATOM	1259	HE1	TRP	X	82	51.916	41.702	43.011	0.00	0.00
ATOM	1260	CE2	TRP	X	82	51.811	43.730	42.387	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	50.962	43.864	41.284	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	50.487	42.939	40.994	0.00	0.00
ATOM	1263	CH2	TRP	X	82	50.758	45.177	40.703	0.00	0.00
ATOM	1264	HH2	TRP	X	82	50.021	45.255	39.917	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	51.479	46.261	41.229	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	51.357	47.243	40.796	0.00	0.00
ATOM	1267	CE3	TRP	X	82	52.371	46.041	42.270	0.00	0.00
ATOM	1268	HE3	TRP	X	82	52.802	46.905	42.753	0.00	0.00
ATOM	1269	CD2	TRP	X	82	52.579	44.810	42.825	0.00	0.00
ATOM	1270	C	TRP	X	82	55.632	46.856	45.924	0.00	0.00
ATOM	1271	O	TRP	X	82	54.991	47.876	46.278	0.00	0.00
ATOM	1272	N	ASN	X	83	56.774	46.499	46.573	0.00	0.00
ATOM	1273	H	ASN	X	83	57.244	45.669	46.240	0.00	0.00
ATOM	1274	CA	ASN	X	83	57.251	47.016	47.893	0.00	0.00
ATOM	1275	HA	ASN	X	83	56.308	47.096	48.434	0.00	0.00
ATOM	1276	CB	ASN	X	83	58.183	45.982	48.537	0.00	0.00
ATOM	1277	HB2	ASN	X	83	57.902	45.018	48.113	0.00	0.00
ATOM	1278	HB3	ASN	X	83	59.173	46.303	48.214	0.00	0.00
ATOM	1279	CG	ASN	X	83	58.102	45.910	50.078	0.00	0.00
ATOM	1280	OD1	ASN	X	83	59.106	46.262	50.707	0.00	0.00
ATOM	1281	ND2	ASN	X	83	56.969	45.637	50.696	0.00	0.00
ATOM	1282	HD21	ASN	X	83	56.999	45.539	51.701	0.00	0.00
ATOM	1283	HD22	ASN	X	83	56.117	45.510	50.168	0.00	0.00
ATOM	1284	C	ASN	X	83	57.849	48.443	47.644	0.00	0.00
ATOM	1285	O	ASN	X	83	58.473	48.749	46.575	0.00	0.00
ATOM	1286	N	PRO	X	84	57.541	49.427	48.514	0.00	0.00
ATOM	1287	CD	PRO	X	84	57.164	49.263	49.872	0.00	0.00
ATOM	1288	HD2	PRO	X	84	57.954	48.737	50.407	0.00	0.00
ATOM	1289	HD3	PRO	X	84	56.227	48.709	49.940	0.00	0.00
ATOM	1290	CG	PRO	X	84	56.920	50.658	50.462	0.00	0.00
ATOM	1291	HG2	PRO	X	84	57.737	50.984	51.105	0.00	0.00
ATOM	1292	HG3	PRO	X	84	55.965	50.625	50.986	0.00	0.00
ATOM	1293	CB	PRO	X	84	56.728	51.535	49.148	0.00	0.00
ATOM	1294	HB2	PRO	X	84	56.974	52.591	49.263	0.00	0.00
ATOM	1295	HB3	PRO	X	84	55.693	51.592	48.810	0.00	0.00
ATOM	1296	CA	PRO	X	84	57.543	50.832	48.069	0.00	0.00
ATOM	1297	HA	PRO	X	84	56.980	50.909	47.138	0.00	0.00

ATOM	1298	C	PRO	X	84	58.919	51.478	47.877	0.00	0.00
ATOM	1299	O	PRO	X	84	59.859	51.160	48.579	0.00	0.00
ATOM	1300	N	ASN	X	85	59.047	52.435	46.934	0.00	0.00
ATOM	1301	H	ASN	X	85	58.293	52.662	46.301	0.00	0.00
ATOM	1302	CA	ASN	X	85	60.109	53.425	46.828	0.00	0.00
ATOM	1303	HA	ASN	X	85	61.021	52.914	47.134	0.00	0.00
ATOM	1304	CB	ASN	X	85	60.267	53.883	45.360	0.00	0.00
ATOM	1305	HB2	ASN	X	85	61.242	54.350	45.221	0.00	0.00
ATOM	1306	HB3	ASN	X	85	60.340	52.999	44.727	0.00	0.00
ATOM	1307	CG	ASN	X	85	59.145	54.800	44.807	0.00	0.00
ATOM	1308	OD1	ASN	X	85	58.061	54.969	45.369	0.00	0.00
ATOM	1309	ND2	ASN	X	85	59.421	55.520	43.729	0.00	0.00
ATOM	1310	HD21	ASN	X	85	58.632	56.017	43.341	0.00	0.00
ATOM	1311	HD22	ASN	X	85	60.276	55.379	43.210	0.00	0.00
ATOM	1312	C	ASN	X	85	59.869	54.691	47.675	0.00	0.00
ATOM	1313	O	ASN	X	85	60.721	55.514	47.739	0.00	0.00
ATOM	1314	N	ARG	X	86	58.758	54.819	48.401	0.00	0.00
ATOM	1315	H	ARG	X	86	58.070	54.110	48.191	0.00	0.00
ATOM	1316	CA	ARG	X	86	58.267	55.994	49.159	0.00	0.00
ATOM	1317	HA	ARG	X	86	58.891	56.846	48.889	0.00	0.00
ATOM	1318	CB	ARG	X	86	56.801	56.135	48.697	0.00	0.00
ATOM	1319	HB2	ARG	X	86	56.582	55.630	47.756	0.00	0.00
ATOM	1320	HB3	ARG	X	86	56.175	55.762	49.509	0.00	0.00
ATOM	1321	CG	ARG	X	86	56.463	57.600	48.507	0.00	0.00
ATOM	1322	HG2	ARG	X	86	55.388	57.763	48.594	0.00	0.00
ATOM	1323	HG3	ARG	X	86	56.856	58.225	49.309	0.00	0.00
ATOM	1324	CD	ARG	X	86	57.095	58.135	47.248	0.00	0.00
ATOM	1325	HD2	ARG	X	86	58.063	57.667	47.072	0.00	0.00
ATOM	1326	HD3	ARG	X	86	56.543	57.889	46.341	0.00	0.00
ATOM	1327	NE	ARG	X	86	57.228	59.624	47.256	0.00	0.00
ATOM	1328	HE	ARG	X	86	56.514	60.128	47.764	0.00	0.00
ATOM	1329	CZ	ARG	X	86	58.174	60.469	46.854	0.00	0.00
ATOM	1330	NH1	ARG	X	86	59.267	60.094	46.237	0.00	0.00
ATOM	1331	HH11	ARG	X	86	59.495	59.118	46.112	0.00	0.00
ATOM	1332	HH12	ARG	X	86	59.862	60.802	45.831	0.00	0.00
ATOM	1333	NH2	ARG	X	86	57.923	61.710	46.928	0.00	0.00
ATOM	1334	HH21	ARG	X	86	57.008	61.987	47.254	0.00	0.00
ATOM	1335	HH22	ARG	X	86	58.646	62.362	46.660	0.00	0.00
ATOM	1336	C	ARG	X	86	58.335	55.726	50.649	0.00	0.00
ATOM	1337	O	ARG	X	86	58.672	54.650	51.173	0.00	0.00
ATOM	1338	N	GLU	X	87	58.103	56.792	51.366	0.00	0.00
ATOM	1339	H	GLU	X	87	57.967	57.648	50.846	0.00	0.00
ATOM	1340	CA	GLU	X	87	58.021	56.864	52.801	0.00	0.00
ATOM	1341	HA	GLU	X	87	58.729	56.174	53.261	0.00	0.00
ATOM	1342	CB	GLU	X	87	58.383	58.279	53.372	0.00	0.00
ATOM	1343	HB2	GLU	X	87	58.556	58.312	54.447	0.00	0.00
ATOM	1344	HB3	GLU	X	87	59.261	58.649	52.843	0.00	0.00
ATOM	1345	CG	GLU	X	87	57.240	59.316	53.243	0.00	0.00
ATOM	1346	HG2	GLU	X	87	56.945	59.296	52.194	0.00	0.00
ATOM	1347	HG3	GLU	X	87	56.431	59.163	53.957	0.00	0.00
ATOM	1348	CD	GLU	X	87	57.844	60.679	53.384	0.00	0.00
ATOM	1349	OE1	GLU	X	87	58.630	60.963	54.302	0.00	0.00
ATOM	1350	OE2	GLU	X	87	57.758	61.504	52.462	0.00	0.00
ATOM	1351	C	GLU	X	87	56.665	56.488	53.353	0.00	0.00
ATOM	1352	O	GLU	X	87	55.588	56.698	52.683	0.00	0.00
ATOM	1353	N	LEU	X	88	56.742	55.884	54.532	0.00	0.00
ATOM	1354	H	LEU	X	88	57.629	55.782	55.005	0.00	0.00
ATOM	1355	CA	LEU	X	88	55.602	55.381	55.268	0.00	0.00
ATOM	1356	HA	LEU	X	88	54.837	55.197	54.514	0.00	0.00
ATOM	1357	CB	LEU	X	88	55.922	54.071	56.018	0.00	0.00
ATOM	1358	HB2	LEU	X	88	56.574	54.341	56.849	0.00	0.00
ATOM	1359	HB3	LEU	X	88	54.970	53.688	56.385	0.00	0.00
ATOM	1360	CG	LEU	X	88	56.698	53.012	55.152	0.00	0.00
ATOM	1361	HG	LEU	X	88	57.676	53.412	54.886	0.00	0.00
ATOM	1362	CD1	LEU	X	88	56.941	51.659	55.931	0.00	0.00
ATOM	1363	HD11	LEU	X	88	57.742	51.083	55.469	0.00	0.00
ATOM	1364	HD12	LEU	X	88	57.272	51.848	56.952	0.00	0.00
ATOM	1365	HD13	LEU	X	88	56.052	51.027	55.936	0.00	0.00
ATOM	1366	CD2	LEU	X	88	56.055	52.700	53.735	0.00	0.00
ATOM	1367	HD21	LEU	X	88	56.356	51.707	53.403	0.00	0.00

ATOM	1368	HD22	LEU	X	88	54.968	52.674	53.660	0.00	0.00
ATOM	1369	HD23	LEU	X	88	56.390	53.444	53.012	0.00	0.00
ATOM	1370	C	LEU	X	88	54.817	56.372	56.175	0.00	0.00
ATOM	1371	O	LEU	X	88	55.348	57.264	56.840	0.00	0.00
ATOM	1372	N	SER	X	89	53.438	56.173	56.251	0.00	0.00
ATOM	1373	H	SER	X	89	53.026	55.441	55.690	0.00	0.00
ATOM	1374	CA	SER	X	89	52.513	56.999	57.032	0.00	0.00
ATOM	1375	HA	SER	X	89	52.874	57.125	58.052	0.00	0.00
ATOM	1376	CB	SER	X	89	52.317	58.468	56.414	0.00	0.00
ATOM	1377	HB2	SER	X	89	52.143	58.416	55.339	0.00	0.00
ATOM	1378	HB3	SER	X	89	51.446	58.923	56.886	0.00	0.00
ATOM	1379	OG	SER	X	89	53.485	59.263	56.517	0.00	0.00
ATOM	1380	HG	SER	X	89	54.208	58.639	56.614	0.00	0.00
ATOM	1381	C	SER	X	89	51.105	56.360	57.128	0.00	0.00
ATOM	1382	O	SER	X	89	50.877	55.348	56.438	0.00	0.00
ATOM	1383	N	GLU	X	90	50.138	56.927	57.812	0.00	0.00
ATOM	1384	H	GLU	X	90	50.400	57.691	58.419	0.00	0.00
ATOM	1385	CA	GLU	X	90	48.690	56.657	57.803	0.00	0.00
ATOM	1386	HA	GLU	X	90	48.647	55.645	57.402	0.00	0.00
ATOM	1387	CB	GLU	X	90	47.983	56.873	59.140	0.00	0.00
ATOM	1388	HB2	GLU	X	90	48.236	57.828	59.600	0.00	0.00
ATOM	1389	HB3	GLU	X	90	46.906	56.884	58.977	0.00	0.00
ATOM	1390	CG	GLU	X	90	48.334	55.664	60.071	0.00	0.00
ATOM	1391	HG2	GLU	X	90	47.838	54.796	59.638	0.00	0.00
ATOM	1392	HG3	GLU	X	90	49.394	55.428	59.979	0.00	0.00
ATOM	1393	CD	GLU	X	90	47.985	55.805	61.557	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.871	55.397	61.939	0.00	0.00
ATOM	1395	OE2	GLU	X	90	48.808	56.225	62.400	0.00	0.00
ATOM	1396	C	GLU	X	90	48.205	57.616	56.731	0.00	0.00
ATOM	1397	O	GLU	X	90	47.379	57.248	55.938	0.00	0.00
ATOM	1398	N	ASP	X	91	48.637	58.910	56.755	0.00	0.00
ATOM	1399	H	ASP	X	91	49.245	59.269	57.476	0.00	0.00
ATOM	1400	CA	ASP	X	91	48.485	59.903	55.683	0.00	0.00
ATOM	1401	HA	ASP	X	91	47.419	60.120	55.610	0.00	0.00
ATOM	1402	CB	ASP	X	91	49.377	61.113	56.102	0.00	0.00
ATOM	1403	HB2	ASP	X	91	48.922	61.479	57.023	0.00	0.00
ATOM	1404	HB3	ASP	X	91	50.406	60.836	56.331	0.00	0.00
ATOM	1405	CG	ASP	X	91	49.326	62.277	55.083	0.00	0.00
ATOM	1406	OD1	ASP	X	91	50.404	62.834	54.823	0.00	0.00
ATOM	1407	OD2	ASP	X	91	48.196	62.586	54.687	0.00	0.00
ATOM	1408	C	ASP	X	91	49.009	59.284	54.310	0.00	0.00
ATOM	1409	O	ASP	X	91	50.216	59.428	54.006	0.00	0.00
ATOM	1410	N	CYX	X	92	48.193	58.718	53.480	0.00	0.00
ATOM	1411	H	CYX	X	92	47.271	58.621	53.882	0.00	0.00
ATOM	1412	CA	CYX	X	92	48.615	58.073	52.294	0.00	0.00
ATOM	1413	HA	CYX	X	92	49.547	58.512	51.937	0.00	0.00
ATOM	1414	CB	CYX	X	92	48.970	56.597	52.710	0.00	0.00
ATOM	1415	HB2	CYX	X	92	49.526	56.166	51.878	0.00	0.00
ATOM	1416	HB3	CYX	X	92	49.598	56.733	53.590	0.00	0.00
ATOM	1417	SG	CYX	X	92	47.613	55.485	53.130	0.00	0.00
ATOM	1418	C	CYX	X	92	47.589	58.104	51.126	0.00	0.00
ATOM	1419	O	CYX	X	92	47.769	57.356	50.168	0.00	0.00
ATOM	1420	N	LEU	X	93	46.464	58.865	51.351	0.00	0.00
ATOM	1421	H	LEU	X	93	46.470	59.443	52.179	0.00	0.00
ATOM	1422	CA	LEU	X	93	45.352	58.827	50.365	0.00	0.00
ATOM	1423	HA	LEU	X	93	45.458	57.838	49.919	0.00	0.00
ATOM	1424	CB	LEU	X	93	43.914	58.839	50.999	0.00	0.00
ATOM	1425	HB2	LEU	X	93	43.816	59.854	51.384	0.00	0.00
ATOM	1426	HB3	LEU	X	93	43.205	58.663	50.190	0.00	0.00
ATOM	1427	CG	LEU	X	93	43.554	57.748	52.052	0.00	0.00
ATOM	1428	HG	LEU	X	93	44.168	57.844	52.948	0.00	0.00
ATOM	1429	CD1	LEU	X	93	42.065	57.812	52.419	0.00	0.00
ATOM	1430	HD11	LEU	X	93	41.823	57.013	53.121	0.00	0.00
ATOM	1431	HD12	LEU	X	93	41.913	58.801	52.850	0.00	0.00
ATOM	1432	HD13	LEU	X	93	41.436	57.655	51.543	0.00	0.00
ATOM	1433	CD2	LEU	X	93	43.848	56.399	51.506	0.00	0.00
ATOM	1434	HD21	LEU	X	93	43.391	55.646	52.149	0.00	0.00
ATOM	1435	HD22	LEU	X	93	43.454	56.307	50.493	0.00	0.00
ATOM	1436	HD23	LEU	X	93	44.927	56.273	51.416	0.00	0.00
ATOM	1437	C	LEU	X	93	45.541	59.945	49.336	0.00	0.00

ATOM	1438	O	LEU	X	93	45.307	61.143	49.537	0.00	0.00
ATOM	1439	N	TYR	X	94	45.901	59.521	48.101	0.00	0.00
ATOM	1440	H	TYR	X	94	45.901	58.517	47.989	0.00	0.00
ATOM	1441	CA	TYR	X	94	46.646	60.287	47.084	0.00	0.00
ATOM	1442	HA	TYR	X	94	46.205	61.283	47.043	0.00	0.00
ATOM	1443	CB	TYR	X	94	48.071	60.298	47.462	0.00	0.00
ATOM	1444	HB2	TYR	X	94	48.481	59.289	47.489	0.00	0.00
ATOM	1445	HB3	TYR	X	94	48.632	60.695	46.616	0.00	0.00
ATOM	1446	CG	TYR	X	94	48.363	61.129	48.684	0.00	0.00
ATOM	1447	CD1	TYR	X	94	48.070	62.495	48.750	0.00	0.00
ATOM	1448	HD1	TYR	X	94	47.587	63.012	47.934	0.00	0.00
ATOM	1449	CE1	TYR	X	94	48.369	63.316	49.836	0.00	0.00
ATOM	1450	HE1	TYR	X	94	48.337	64.396	49.848	0.00	0.00
ATOM	1451	CZ	TYR	X	94	48.964	62.689	50.955	0.00	0.00
ATOM	1452	OH	TYR	X	94	49.393	63.395	52.052	0.00	0.00
ATOM	1453	HH	TYR	X	94	49.488	62.914	52.877	0.00	0.00
ATOM	1454	CE2	TYR	X	94	49.359	61.334	50.851	0.00	0.00
ATOM	1455	HE2	TYR	X	94	49.831	60.868	51.703	0.00	0.00
ATOM	1456	CD2	TYR	X	94	49.024	60.527	49.751	0.00	0.00
ATOM	1457	HD2	TYR	X	94	49.341	59.498	49.663	0.00	0.00
ATOM	1458	C	TYR	X	94	46.451	59.742	45.696	0.00	0.00
ATOM	1459	O	TYR	X	94	46.812	58.554	45.541	0.00	0.00
ATOM	1460	N	LEU	X	95	46.042	60.527	44.703	0.00	0.00
ATOM	1461	H	LEU	X	95	45.716	61.458	44.917	0.00	0.00
ATOM	1462	CA	LEU	X	95	45.953	60.010	43.328	0.00	0.00
ATOM	1463	HA	LEU	X	95	46.380	59.017	43.183	0.00	0.00
ATOM	1464	CB	LEU	X	95	44.450	59.821	42.915	0.00	0.00
ATOM	1465	HB2	LEU	X	95	44.430	59.352	41.931	0.00	0.00
ATOM	1466	HB3	LEU	X	95	44.077	59.173	43.708	0.00	0.00
ATOM	1467	CG	LEU	X	95	43.632	61.148	42.885	0.00	0.00
ATOM	1468	HG	LEU	X	95	43.846	61.792	43.738	0.00	0.00
ATOM	1469	CD1	LEU	X	95	43.901	61.971	41.592	0.00	0.00
ATOM	1470	HD11	LEU	X	95	44.818	62.542	41.736	0.00	0.00
ATOM	1471	HD12	LEU	X	95	44.048	61.277	40.765	0.00	0.00
ATOM	1472	HD13	LEU	X	95	43.069	62.641	41.378	0.00	0.00
ATOM	1473	CD2	LEU	X	95	42.171	60.614	42.767	0.00	0.00
ATOM	1474	HD21	LEU	X	95	41.895	60.261	41.773	0.00	0.00
ATOM	1475	HD22	LEU	X	95	41.973	59.835	43.503	0.00	0.00
ATOM	1476	HD23	LEU	X	95	41.434	61.411	42.869	0.00	0.00
ATOM	1477	C	LEU	X	95	46.779	60.738	42.328	0.00	0.00
ATOM	1478	O	LEU	X	95	47.391	61.774	42.568	0.00	0.00
ATOM	1479	N	ASN	X	96	46.813	60.214	41.052	0.00	0.00
ATOM	1480	H	ASN	X	96	46.308	59.346	40.947	0.00	0.00
ATOM	1481	CA	ASN	X	96	47.771	60.725	40.062	0.00	0.00
ATOM	1482	HA	ASN	X	96	48.053	61.766	40.224	0.00	0.00
ATOM	1483	CB	ASN	X	96	49.027	59.862	39.923	0.00	0.00
ATOM	1484	HB2	ASN	X	96	48.819	59.005	39.282	0.00	0.00
ATOM	1485	HB3	ASN	X	96	49.775	60.487	39.436	0.00	0.00
ATOM	1486	CG	ASN	X	96	49.659	59.382	41.195	0.00	0.00
ATOM	1487	OD1	ASN	X	96	50.432	60.014	41.839	0.00	0.00
ATOM	1488	ND2	ASN	X	96	49.273	58.161	41.655	0.00	0.00
ATOM	1489	HD21	ASN	X	96	49.724	57.782	42.475	0.00	0.00
ATOM	1490	HD22	ASN	X	96	48.675	57.597	41.068	0.00	0.00
ATOM	1491	C	ASN	X	96	47.091	60.611	38.692	0.00	0.00
ATOM	1492	O	ASN	X	96	46.393	59.589	38.366	0.00	0.00
ATOM	1493	N	VAL	X	97	47.291	61.612	37.820	0.00	0.00
ATOM	1494	H	VAL	X	97	47.990	62.298	38.065	0.00	0.00
ATOM	1495	CA	VAL	X	97	46.924	61.698	36.378	0.00	0.00
ATOM	1496	HA	VAL	X	97	46.504	60.724	36.124	0.00	0.00
ATOM	1497	CB	VAL	X	97	45.817	62.871	36.151	0.00	0.00
ATOM	1498	HB	VAL	X	97	46.231	63.833	36.454	0.00	0.00
ATOM	1499	CG1	VAL	X	97	45.267	62.751	34.721	0.00	0.00
ATOM	1500	HG11	VAL	X	97	46.108	62.836	34.032	0.00	0.00
ATOM	1501	HG12	VAL	X	97	44.787	61.778	34.617	0.00	0.00
ATOM	1502	HG13	VAL	X	97	44.516	63.519	34.532	0.00	0.00
ATOM	1503	CG2	VAL	X	97	44.538	62.716	37.011	0.00	0.00
ATOM	1504	HG21	VAL	X	97	44.687	62.433	38.053	0.00	0.00
ATOM	1505	HG22	VAL	X	97	44.036	63.677	37.121	0.00	0.00
ATOM	1506	HG23	VAL	X	97	43.842	62.050	36.501	0.00	0.00
ATOM	1507	C	VAL	X	97	48.165	61.870	35.421	0.00	0.00

ATOM	1508	O	VAL	X	97	48.980	62.776	35.621	0.00	0.00
ATOM	1509	N	TRP	X	98	48.154	61.144	34.271	0.00	0.00
ATOM	1510	H	TRP	X	98	47.389	60.505	34.106	0.00	0.00
ATOM	1511	CA	TRP	X	98	48.951	61.616	33.111	0.00	0.00
ATOM	1512	HA	TRP	X	98	49.540	62.515	33.295	0.00	0.00
ATOM	1513	CB	TRP	X	98	50.010	60.493	32.830	0.00	0.00
ATOM	1514	HB2	TRP	X	98	49.531	59.545	32.585	0.00	0.00
ATOM	1515	HB3	TRP	X	98	50.589	60.784	31.954	0.00	0.00
ATOM	1516	CG	TRP	X	98	51.099	60.119	33.879	0.00	0.00
ATOM	1517	CD1	TRP	X	98	52.422	60.171	33.741	0.00	0.00
ATOM	1518	HD1	TRP	X	98	52.889	60.508	32.828	0.00	0.00
ATOM	1519	NE1	TRP	X	98	53.101	59.691	34.855	0.00	0.00
ATOM	1520	HE1	TRP	X	98	54.109	59.693	34.914	0.00	0.00
ATOM	1521	CE2	TRP	X	98	52.254	59.113	35.731	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	52.521	58.385	36.898	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	53.489	58.346	37.376	0.00	0.00
ATOM	1524	CH2	TRP	X	98	51.406	57.838	37.470	0.00	0.00
ATOM	1525	HH2	TRP	X	98	51.509	57.285	38.392	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	50.105	57.955	36.930	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	49.305	57.434	37.434	0.00	0.00
ATOM	1528	CE3	TRP	X	98	49.878	58.761	35.810	0.00	0.00
ATOM	1529	HE3	TRP	X	98	48.907	58.904	35.358	0.00	0.00
ATOM	1530	CD2	TRP	X	98	50.947	59.382	35.106	0.00	0.00
ATOM	1531	C	TRP	X	98	48.011	61.780	31.864	0.00	0.00
ATOM	1532	O	TRP	X	98	47.062	60.973	31.765	0.00	0.00
ATOM	1533	N	THR	X	99	48.363	62.766	31.008	0.00	0.00
ATOM	1534	H	THR	X	99	49.148	63.325	31.312	0.00	0.00
ATOM	1535	CA	THR	X	99	47.515	63.243	29.922	0.00	0.00
ATOM	1536	HA	THR	X	99	47.006	62.360	29.537	0.00	0.00
ATOM	1537	CB	THR	X	99	46.401	64.141	30.556	0.00	0.00
ATOM	1538	HB	THR	X	99	45.785	63.528	31.214	0.00	0.00
ATOM	1539	CG2	THR	X	99	46.976	65.327	31.274	0.00	0.00
ATOM	1540	HG21	THR	X	99	47.464	65.002	32.194	0.00	0.00
ATOM	1541	HG22	THR	X	99	47.653	65.866	30.611	0.00	0.00
ATOM	1542	HG23	THR	X	99	46.242	66.047	31.636	0.00	0.00
ATOM	1543	OG1	THR	X	99	45.574	64.787	29.545	0.00	0.00
ATOM	1544	HG1	THR	X	99	44.701	64.945	29.912	0.00	0.00
ATOM	1545	C	THR	X	99	48.364	63.871	28.834	0.00	0.00
ATOM	1546	O	THR	X	99	49.352	64.559	29.214	0.00	0.00
ATOM	1547	N	PRO	X	100	47.986	63.905	27.551	0.00	0.00
ATOM	1548	CD	PRO	X	100	46.920	63.028	26.999	0.00	0.00
ATOM	1549	HD2	PRO	X	100	45.946	63.466	27.217	0.00	0.00
ATOM	1550	HD3	PRO	X	100	46.957	62.002	27.364	0.00	0.00
ATOM	1551	CG	PRO	X	100	47.094	62.972	25.460	0.00	0.00
ATOM	1552	HG2	PRO	X	100	46.158	63.048	24.907	0.00	0.00
ATOM	1553	HG3	PRO	X	100	47.711	62.107	25.217	0.00	0.00
ATOM	1554	CB	PRO	X	100	47.862	64.253	25.197	0.00	0.00
ATOM	1555	HB2	PRO	X	100	47.144	65.058	25.038	0.00	0.00
ATOM	1556	HB3	PRO	X	100	48.452	64.120	24.290	0.00	0.00
ATOM	1557	CA	PRO	X	100	48.644	64.580	26.416	0.00	0.00
ATOM	1558	HA	PRO	X	100	49.652	64.187	26.281	0.00	0.00
ATOM	1559	C	PRO	X	100	48.801	66.092	26.683	0.00	0.00
ATOM	1560	O	PRO	X	100	48.086	66.642	27.544	0.00	0.00
ATOM	1561	N	TYR	X	101	49.625	66.757	25.852	0.00	0.00
ATOM	1562	H	TYR	X	101	49.797	66.296	24.970	0.00	0.00
ATOM	1563	CA	TYR	X	101	50.080	68.080	26.165	0.00	0.00
ATOM	1564	HA	TYR	X	101	49.369	68.525	26.861	0.00	0.00
ATOM	1565	CB	TYR	X	101	51.402	67.993	26.846	0.00	0.00
ATOM	1566	HB2	TYR	X	101	51.167	67.497	27.787	0.00	0.00
ATOM	1567	HB3	TYR	X	101	52.125	67.396	26.290	0.00	0.00
ATOM	1568	CG	TYR	X	101	52.086	69.339	27.104	0.00	0.00
ATOM	1569	CD1	TYR	X	101	53.260	69.693	26.425	0.00	0.00
ATOM	1570	HD1	TYR	X	101	53.715	69.036	25.698	0.00	0.00
ATOM	1571	CE1	TYR	X	101	53.802	70.985	26.578	0.00	0.00
ATOM	1572	HE1	TYR	X	101	54.730	71.259	26.099	0.00	0.00
ATOM	1573	CZ	TYR	X	101	53.233	71.864	27.513	0.00	0.00
ATOM	1574	OH	TYR	X	101	53.755	73.073	27.814	0.00	0.00
ATOM	1575	HH	TYR	X	101	54.415	73.366	27.181	0.00	0.00
ATOM	1576	CE2	TYR	X	101	52.074	71.477	28.177	0.00	0.00
ATOM	1577	HE2	TYR	X	101	51.678	72.139	28.933	0.00	0.00

ATOM	1578	CD2	TYR	X	101	51.449	70.256	28.023	0.00	0.00
ATOM	1579	HD2	TYR	X	101	50.518	70.021	28.518	0.00	0.00
ATOM	1580	C	TYR	X	101	50.111	69.020	24.918	0.00	0.00
ATOM	1581	O	TYR	X	101	50.883	68.690	24.005	0.00	0.00
ATOM	1582	N	PRO	X	102	49.508	70.206	24.902	0.00	0.00
ATOM	1583	CD	PRO	X	102	49.817	71.208	23.906	0.00	0.00
ATOM	1584	HD2	PRO	X	102	49.557	70.821	22.921	0.00	0.00
ATOM	1585	HD3	PRO	X	102	50.901	71.236	24.024	0.00	0.00
ATOM	1586	CG	PRO	X	102	49.224	72.540	24.360	0.00	0.00
ATOM	1587	HG2	PRO	X	102	48.867	73.094	23.491	0.00	0.00
ATOM	1588	HG3	PRO	X	102	49.810	73.232	24.964	0.00	0.00
ATOM	1589	CB	PRO	X	102	48.009	71.997	25.165	0.00	0.00
ATOM	1590	HB2	PRO	X	102	47.135	71.928	24.518	0.00	0.00
ATOM	1591	HB3	PRO	X	102	47.769	72.724	25.941	0.00	0.00
ATOM	1592	CA	PRO	X	102	48.392	70.608	25.721	0.00	0.00
ATOM	1593	HA	PRO	X	102	48.798	70.752	26.723	0.00	0.00
ATOM	1594	C	PRO	X	102	47.202	69.637	25.665	0.00	0.00
ATOM	1595	O	PRO	X	102	47.123	68.777	24.764	0.00	0.00
ATOM	1596	N	ARG	X	103	46.314	69.709	26.638	0.00	0.00
ATOM	1597	H	ARG	X	103	46.566	70.395	27.335	0.00	0.00
ATOM	1598	CA	ARG	X	103	45.201	68.798	26.823	0.00	0.00
ATOM	1599	HA	ARG	X	103	45.627	67.873	27.211	0.00	0.00
ATOM	1600	CB	ARG	X	103	44.251	69.337	27.857	0.00	0.00
ATOM	1601	HB2	ARG	X	103	44.039	70.392	27.684	0.00	0.00
ATOM	1602	HB3	ARG	X	103	43.308	68.839	27.632	0.00	0.00
ATOM	1603	CG	ARG	X	103	44.765	69.137	29.316	0.00	0.00
ATOM	1604	HG2	ARG	X	103	44.869	68.089	29.596	0.00	0.00
ATOM	1605	HG3	ARG	X	103	45.747	69.608	29.369	0.00	0.00
ATOM	1606	CD	ARG	X	103	43.840	69.761	30.306	0.00	0.00
ATOM	1607	HD2	ARG	X	103	42.846	69.415	30.022	0.00	0.00
ATOM	1608	HD3	ARG	X	103	44.092	69.515	31.338	0.00	0.00
ATOM	1609	NE	ARG	X	103	43.899	71.263	30.082	0.00	0.00
ATOM	1610	HE	ARG	X	103	44.674	71.625	29.545	0.00	0.00
ATOM	1611	CZ	ARG	X	103	42.993	72.061	30.403	0.00	0.00
ATOM	1612	NH1	ARG	X	103	41.877	71.805	31.086	0.00	0.00
ATOM	1613	HH11	ARG	X	103	41.591	70.838	31.143	0.00	0.00
ATOM	1614	HH12	ARG	X	103	41.194	72.543	31.178	0.00	0.00
ATOM	1615	NH2	ARG	X	103	43.181	73.309	30.056	0.00	0.00
ATOM	1616	HH21	ARG	X	103	43.964	73.566	29.472	0.00	0.00
ATOM	1617	HH22	ARG	X	103	42.628	74.025	30.506	0.00	0.00
ATOM	1618	C	ARG	X	103	44.402	68.418	25.541	0.00	0.00
ATOM	1619	O	ARG	X	103	44.349	69.216	24.597	0.00	0.00
ATOM	1620	N	PRO	X	104	43.731	67.220	25.462	0.00	0.00
ATOM	1621	CD	PRO	X	104	43.906	66.157	26.400	0.00	0.00
ATOM	1622	HD2	PRO	X	104	43.429	66.434	27.340	0.00	0.00
ATOM	1623	HD3	PRO	X	104	44.951	65.865	26.502	0.00	0.00
ATOM	1624	CG	PRO	X	104	43.201	64.915	25.868	0.00	0.00
ATOM	1625	HG2	PRO	X	104	42.727	64.326	26.654	0.00	0.00
ATOM	1626	HG3	PRO	X	104	43.982	64.365	25.343	0.00	0.00
ATOM	1627	CB	PRO	X	104	42.167	65.439	24.923	0.00	0.00
ATOM	1628	HB2	PRO	X	104	41.251	65.564	25.501	0.00	0.00
ATOM	1629	HB3	PRO	X	104	42.041	64.808	24.044	0.00	0.00
ATOM	1630	CA	PRO	X	104	42.754	66.822	24.402	0.00	0.00
ATOM	1631	HA	PRO	X	104	43.316	66.695	23.476	0.00	0.00
ATOM	1632	C	PRO	X	104	41.607	67.761	24.120	0.00	0.00
ATOM	1633	O	PRO	X	104	40.815	68.017	25.034	0.00	0.00
ATOM	1634	N	THR	X	105	41.399	68.214	22.938	0.00	0.00
ATOM	1635	H	THR	X	105	42.004	67.859	22.211	0.00	0.00
ATOM	1636	CA	THR	X	105	40.307	69.153	22.619	0.00	0.00
ATOM	1637	HA	THR	X	105	40.101	69.769	23.494	0.00	0.00
ATOM	1638	CB	THR	X	105	40.724	70.213	21.514	0.00	0.00
ATOM	1639	HB	THR	X	105	39.815	70.811	21.444	0.00	0.00
ATOM	1640	CG2	THR	X	105	41.987	70.969	21.916	0.00	0.00
ATOM	1641	HG21	THR	X	105	42.803	70.250	21.850	0.00	0.00
ATOM	1642	HG22	THR	X	105	42.158	71.799	21.230	0.00	0.00
ATOM	1643	HG23	THR	X	105	41.901	71.443	22.894	0.00	0.00
ATOM	1644	OG1	THR	X	105	40.972	69.520	20.345	0.00	0.00
ATOM	1645	HG1	THR	X	105	41.827	69.112	20.501	0.00	0.00
ATOM	1646	C	THR	X	105	38.992	68.362	22.257	0.00	0.00
ATOM	1647	O	THR	X	105	37.949	68.879	22.436	0.00	0.00

ATOM	1648	N	SER	X	106	39.129	67.113	21.867	0.00	0.00
ATOM	1649	H	SER	X	106	40.045	66.723	21.696	0.00	0.00
ATOM	1650	CA	SER	X	106	38.067	66.115	21.872	0.00	0.00
ATOM	1651	HA	SER	X	106	37.161	66.544	22.299	0.00	0.00
ATOM	1652	CB	SER	X	106	37.874	65.538	20.462	0.00	0.00
ATOM	1653	HB2	SER	X	106	37.857	66.348	19.733	0.00	0.00
ATOM	1654	HB3	SER	X	106	38.814	65.004	20.324	0.00	0.00
ATOM	1655	OG	SER	X	106	36.788	64.576	20.415	0.00	0.00
ATOM	1656	HG	SER	X	106	35.940	64.999	20.264	0.00	0.00
ATOM	1657	C	SER	X	106	38.522	64.894	22.815	0.00	0.00
ATOM	1658	O	SER	X	106	39.663	64.588	22.681	0.00	0.00
ATOM	1659	N	PRO	X	107	37.658	64.362	23.689	0.00	0.00
ATOM	1660	CD	PRO	X	107	36.232	64.532	23.693	0.00	0.00
ATOM	1661	HD2	PRO	X	107	35.850	64.080	22.778	0.00	0.00
ATOM	1662	HD3	PRO	X	107	35.918	65.569	23.814	0.00	0.00
ATOM	1663	CG	PRO	X	107	35.705	63.705	24.905	0.00	0.00
ATOM	1664	HG2	PRO	X	107	35.342	62.729	24.582	0.00	0.00
ATOM	1665	HG3	PRO	X	107	34.890	64.258	25.372	0.00	0.00
ATOM	1666	CB	PRO	X	107	36.976	63.578	25.815	0.00	0.00
ATOM	1667	HB2	PRO	X	107	36.890	62.696	26.448	0.00	0.00
ATOM	1668	HB3	PRO	X	107	37.021	64.567	26.271	0.00	0.00
ATOM	1669	CA	PRO	X	107	38.137	63.563	24.845	0.00	0.00
ATOM	1670	HA	PRO	X	107	39.039	64.029	25.243	0.00	0.00
ATOM	1671	C	PRO	X	107	38.485	62.179	24.321	0.00	0.00
ATOM	1672	O	PRO	X	107	38.163	61.713	23.256	0.00	0.00
ATOM	1673	N	THR	X	108	39.124	61.458	25.275	0.00	0.00
ATOM	1674	H	THR	X	108	39.208	61.937	26.161	0.00	0.00
ATOM	1675	CA	THR	X	108	39.709	60.125	25.130	0.00	0.00
ATOM	1676	HA	THR	X	108	39.220	59.720	24.244	0.00	0.00
ATOM	1677	CB	THR	X	108	41.188	60.297	24.846	0.00	0.00
ATOM	1678	HB	THR	X	108	41.336	60.891	23.945	0.00	0.00
ATOM	1679	CG2	THR	X	108	41.950	60.969	25.983	0.00	0.00
ATOM	1680	HG21	THR	X	108	41.550	61.970	26.148	0.00	0.00
ATOM	1681	HG22	THR	X	108	41.857	60.384	26.898	0.00	0.00
ATOM	1682	HG23	THR	X	108	43.016	61.131	25.825	0.00	0.00
ATOM	1683	OG1	THR	X	108	41.825	59.114	24.541	0.00	0.00
ATOM	1684	HG1	THR	X	108	42.749	59.333	24.685	0.00	0.00
ATOM	1685	C	THR	X	108	39.381	59.236	26.350	0.00	0.00
ATOM	1686	O	THR	X	108	39.334	59.697	27.506	0.00	0.00
ATOM	1687	N	PRO	X	109	39.096	57.941	26.199	0.00	0.00
ATOM	1688	CD	PRO	X	109	38.973	57.302	24.878	0.00	0.00
ATOM	1689	HD2	PRO	X	109	39.970	57.103	24.486	0.00	0.00
ATOM	1690	HD3	PRO	X	109	38.339	57.838	24.172	0.00	0.00
ATOM	1691	CG	PRO	X	109	38.172	56.045	25.157	0.00	0.00
ATOM	1692	HG2	PRO	X	109	38.404	55.273	24.424	0.00	0.00
ATOM	1693	HG3	PRO	X	109	37.095	56.155	25.289	0.00	0.00
ATOM	1694	CB	PRO	X	109	38.762	55.602	26.494	0.00	0.00
ATOM	1695	HB2	PRO	X	109	39.659	55.035	26.245	0.00	0.00
ATOM	1696	HB3	PRO	X	109	38.083	54.842	26.884	0.00	0.00
ATOM	1697	CA	PRO	X	109	38.946	56.928	27.220	0.00	0.00
ATOM	1698	HA	PRO	X	109	37.987	57.250	27.627	0.00	0.00
ATOM	1699	C	PRO	X	109	40.020	57.007	28.272	0.00	0.00
ATOM	1700	O	PRO	X	109	41.158	57.401	28.098	0.00	0.00
ATOM	1701	N	VAL	X	110	39.644	56.408	29.375	0.00	0.00
ATOM	1702	H	VAL	X	110	38.717	56.038	29.525	0.00	0.00
ATOM	1703	CA	VAL	X	110	40.296	56.518	30.707	0.00	0.00
ATOM	1704	HA	VAL	X	110	41.214	57.093	30.582	0.00	0.00
ATOM	1705	CB	VAL	X	110	39.452	57.385	31.652	0.00	0.00
ATOM	1706	HB	VAL	X	110	38.449	56.962	31.594	0.00	0.00
ATOM	1707	CG1	VAL	X	110	39.913	57.326	33.114	0.00	0.00
ATOM	1708	HG11	VAL	X	110	39.783	56.391	33.659	0.00	0.00
ATOM	1709	HG12	VAL	X	110	40.958	57.572	33.307	0.00	0.00
ATOM	1710	HG13	VAL	X	110	39.238	58.049	33.572	0.00	0.00
ATOM	1711	CG2	VAL	X	110	39.386	58.826	31.118	0.00	0.00
ATOM	1712	HG21	VAL	X	110	40.319	59.338	31.352	0.00	0.00
ATOM	1713	HG22	VAL	X	110	39.103	58.807	30.066	0.00	0.00
ATOM	1714	HG23	VAL	X	110	38.624	59.361	31.685	0.00	0.00
ATOM	1715	C	VAL	X	110	40.606	55.128	31.288	0.00	0.00
ATOM	1716	O	VAL	X	110	39.762	54.250	31.333	0.00	0.00
ATOM	1717	N	LEU	X	111	41.823	54.860	31.673	0.00	0.00

ATOM	1718	H	LEU	X	111	42.589	55.511	31.578	0.00	0.00
ATOM	1719	CA	LEU	X	111	42.264	53.575	32.134	0.00	0.00
ATOM	1720	HA	LEU	X	111	41.492	52.815	32.258	0.00	0.00
ATOM	1721	CB	LEU	X	111	43.379	53.016	31.210	0.00	0.00
ATOM	1722	HB2	LEU	X	111	43.936	53.819	30.726	0.00	0.00
ATOM	1723	HB3	LEU	X	111	44.094	52.524	31.868	0.00	0.00
ATOM	1724	CG	LEU	X	111	42.803	52.048	30.195	0.00	0.00
ATOM	1725	HG	LEU	X	111	41.831	52.425	29.879	0.00	0.00
ATOM	1726	CD1	LEU	X	111	43.644	51.822	28.884	0.00	0.00
ATOM	1727	HD11	LEU	X	111	43.034	51.324	28.131	0.00	0.00
ATOM	1728	HD12	LEU	X	111	43.918	52.761	28.402	0.00	0.00
ATOM	1729	HD13	LEU	X	111	44.556	51.328	29.220	0.00	0.00
ATOM	1730	CD2	LEU	X	111	42.548	50.703	30.880	0.00	0.00
ATOM	1731	HD21	LEU	X	111	42.014	50.699	31.830	0.00	0.00
ATOM	1732	HD22	LEU	X	111	41.951	50.079	30.216	0.00	0.00
ATOM	1733	HD23	LEU	X	111	43.520	50.243	31.062	0.00	0.00
ATOM	1734	C	LEU	X	111	42.792	53.763	33.581	0.00	0.00
ATOM	1735	O	LEU	X	111	43.804	54.522	33.798	0.00	0.00
ATOM	1736	N	VAL	X	112	42.083	53.181	34.541	0.00	0.00
ATOM	1737	H	VAL	X	112	41.188	52.753	34.352	0.00	0.00
ATOM	1738	CA	VAL	X	112	42.325	53.380	35.949	0.00	0.00
ATOM	1739	HA	VAL	X	112	42.945	54.262	36.112	0.00	0.00
ATOM	1740	CB	VAL	X	112	41.055	53.439	36.924	0.00	0.00
ATOM	1741	HB	VAL	X	112	40.431	52.552	36.812	0.00	0.00
ATOM	1742	CG1	VAL	X	112	41.473	53.516	38.398	0.00	0.00
ATOM	1743	HG11	VAL	X	112	42.296	52.850	38.657	0.00	0.00
ATOM	1744	HG12	VAL	X	112	41.688	54.522	38.759	0.00	0.00
ATOM	1745	HG13	VAL	X	112	40.620	53.217	39.008	0.00	0.00
ATOM	1746	CG2	VAL	X	112	40.100	54.547	36.489	0.00	0.00
ATOM	1747	HG21	VAL	X	112	39.846	54.351	35.447	0.00	0.00
ATOM	1748	HG22	VAL	X	112	39.287	54.505	37.213	0.00	0.00
ATOM	1749	HG23	VAL	X	112	40.758	55.414	36.435	0.00	0.00
ATOM	1750	C	VAL	X	112	43.222	52.202	36.424	0.00	0.00
ATOM	1751	O	VAL	X	112	42.743	51.124	36.570	0.00	0.00
ATOM	1752	N	TRP	X	113	44.513	52.471	36.775	0.00	0.00
ATOM	1753	H	TRP	X	113	44.841	53.417	36.639	0.00	0.00
ATOM	1754	CA	TRP	X	113	45.478	51.391	37.309	0.00	0.00
ATOM	1755	HA	TRP	X	113	45.300	50.413	36.863	0.00	0.00
ATOM	1756	CB	TRP	X	113	46.917	51.668	36.884	0.00	0.00
ATOM	1757	HB2	TRP	X	113	47.143	51.620	35.818	0.00	0.00
ATOM	1758	HB3	TRP	X	113	47.125	52.650	37.309	0.00	0.00
ATOM	1759	CG	TRP	X	113	47.867	50.679	37.462	0.00	0.00
ATOM	1760	CD1	TRP	X	113	48.747	50.831	38.447	0.00	0.00
ATOM	1761	HD1	TRP	X	113	48.877	51.735	39.022	0.00	0.00
ATOM	1762	NE1	TRP	X	113	49.469	49.654	38.633	0.00	0.00
ATOM	1763	HE1	TRP	X	113	50.299	49.667	39.209	0.00	0.00
ATOM	1764	CE2	TRP	X	113	49.171	48.746	37.655	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	49.750	47.589	37.292	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	50.511	47.075	37.860	0.00	0.00
ATOM	1767	CH2	TRP	X	113	49.189	46.870	36.227	0.00	0.00
ATOM	1768	HH2	TRP	X	113	49.611	45.892	36.052	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	48.052	47.265	35.541	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	47.698	46.693	34.696	0.00	0.00
ATOM	1771	CE3	TRP	X	113	47.487	48.535	35.940	0.00	0.00
ATOM	1772	HE3	TRP	X	113	46.676	49.057	35.454	0.00	0.00
ATOM	1773	CD2	TRP	X	113	48.099	49.273	36.963	0.00	0.00
ATOM	1774	C	TRP	X	113	45.348	51.332	38.855	0.00	0.00
ATOM	1775	O	TRP	X	113	45.686	52.291	39.526	0.00	0.00
ATOM	1776	N	ILE	X	114	45.094	50.055	39.247	0.00	0.00
ATOM	1777	H	ILE	X	114	44.785	49.383	38.559	0.00	0.00
ATOM	1778	CA	ILE	X	114	45.054	49.559	40.572	0.00	0.00
ATOM	1779	HA	ILE	X	114	45.164	50.342	41.321	0.00	0.00
ATOM	1780	CB	ILE	X	114	43.721	48.824	40.913	0.00	0.00
ATOM	1781	HB	ILE	X	114	43.826	47.888	40.366	0.00	0.00
ATOM	1782	CG2	ILE	X	114	43.522	48.559	42.415	0.00	0.00
ATOM	1783	HG21	ILE	X	114	44.127	47.687	42.664	0.00	0.00
ATOM	1784	HG22	ILE	X	114	43.709	49.463	42.995	0.00	0.00
ATOM	1785	HG23	ILE	X	114	42.502	48.242	42.630	0.00	0.00
ATOM	1786	CG1	ILE	X	114	42.409	49.520	40.312	0.00	0.00
ATOM	1787	HG12	ILE	X	114	42.560	49.655	39.241	0.00	0.00

ATOM	1788	HG13	ILE	X	114	41.513	48.911	40.432	0.00	0.00
ATOM	1789	CD1	ILE	X	114	42.064	50.772	41.155	0.00	0.00
ATOM	1790	HD11	ILE	X	114	41.790	50.420	42.149	0.00	0.00
ATOM	1791	HD12	ILE	X	114	42.917	51.448	41.221	0.00	0.00
ATOM	1792	HD13	ILE	X	114	41.244	51.291	40.659	0.00	0.00
ATOM	1793	C	ILE	X	114	46.161	48.516	40.782	0.00	0.00
ATOM	1794	O	ILE	X	114	46.226	47.463	40.151	0.00	0.00
ATOM	1795	N	TYR	X	115	47.001	48.757	41.831	0.00	0.00
ATOM	1796	H	TYR	X	115	46.731	49.523	42.432	0.00	0.00
ATOM	1797	CA	TYR	X	115	48.159	47.959	42.205	0.00	0.00
ATOM	1798	HA	TYR	X	115	48.537	47.632	41.235	0.00	0.00
ATOM	1799	CB	TYR	X	115	49.255	48.794	42.883	0.00	0.00
ATOM	1800	HB2	TYR	X	115	50.043	48.121	43.222	0.00	0.00
ATOM	1801	HB3	TYR	X	115	49.673	49.455	42.124	0.00	0.00
ATOM	1802	CG	TYR	X	115	48.968	49.528	44.138	0.00	0.00
ATOM	1803	CD1	TYR	X	115	48.645	48.822	45.287	0.00	0.00
ATOM	1804	HD1	TYR	X	115	48.460	47.758	45.296	0.00	0.00
ATOM	1805	CE1	TYR	X	115	48.395	49.471	46.538	0.00	0.00
ATOM	1806	HE1	TYR	X	115	48.267	48.906	47.450	0.00	0.00
ATOM	1807	CZ	TYR	X	115	48.636	50.839	46.620	0.00	0.00
ATOM	1808	OH	TYR	X	115	48.506	51.491	47.835	0.00	0.00
ATOM	1809	HH	TYR	X	115	48.519	50.948	48.627	0.00	0.00
ATOM	1810	CE2	TYR	X	115	48.939	51.551	45.436	0.00	0.00
ATOM	1811	HE2	TYR	X	115	49.036	52.626	45.448	0.00	0.00
ATOM	1812	CD2	TYR	X	115	49.144	50.943	44.144	0.00	0.00
ATOM	1813	HD2	TYR	X	115	49.409	51.486	43.249	0.00	0.00
ATOM	1814	C	TYR	X	115	47.823	46.745	42.975	0.00	0.00
ATOM	1815	O	TYR	X	115	46.894	46.843	43.775	0.00	0.00
ATOM	1816	N	GLY	X	116	48.586	45.693	42.852	0.00	0.00
ATOM	1817	H	GLY	X	116	49.420	45.718	42.283	0.00	0.00
ATOM	1818	CA	GLY	X	116	48.676	44.566	43.816	0.00	0.00
ATOM	1819	HA2	GLY	X	116	47.634	44.667	44.268	0.00	0.00
ATOM	1820	HA3	GLY	X	116	48.615	43.581	43.342	0.00	0.00
ATOM	1821	C	GLY	X	116	49.860	44.707	44.821	0.00	0.00
ATOM	1822	O	GLY	X	116	50.363	45.792	44.968	0.00	0.00
ATOM	1823	N	GLY	X	117	50.338	43.632	45.393	0.00	0.00
ATOM	1824	H	GLY	X	117	50.121	42.773	44.907	0.00	0.00
ATOM	1825	CA	GLY	X	117	51.084	43.589	46.591	0.00	0.00
ATOM	1826	HA2	GLY	X	117	52.043	43.137	46.395	0.00	0.00
ATOM	1827	HA3	GLY	X	117	51.227	44.627	46.966	0.00	0.00
ATOM	1828	C	GLY	X	117	50.240	42.768	47.593	0.00	0.00
ATOM	1829	O	GLY	X	117	50.171	43.244	48.753	0.00	0.00
ATOM	1830	N	GLY	X	118	49.542	41.674	47.221	0.00	0.00
ATOM	1831	H	GLY	X	118	49.671	41.373	46.265	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.782	40.810	48.085	0.00	0.00
ATOM	1833	HA2	GLY	X	118	48.279	40.049	47.433	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.515	40.242	48.718	0.00	0.00
ATOM	1835	C	GLY	X	118	47.770	41.452	49.050	0.00	0.00
ATOM	1836	O	GLY	X	118	47.368	40.740	49.984	0.00	0.00
ATOM	1837	N	PHE	X	119	47.458	42.706	48.855	0.00	0.00
ATOM	1838	H	PHE	X	119	47.904	42.989	47.994	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.792	43.678	49.791	0.00	0.00
ATOM	1840	HA	PHE	X	119	46.576	44.630	49.307	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.316	43.172	50.267	0.00	0.00
ATOM	1842	HB2	PHE	X	119	45.348	42.220	50.797	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.920	43.917	50.958	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.240	42.883	49.227	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.423	43.869	48.695	0.00	0.00
ATOM	1846	HD1	PHE	X	119	43.477	44.898	49.019	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.484	43.550	47.649	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.925	44.381	47.244	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.275	42.248	47.292	0.00	0.00
ATOM	1850	HZ	PHE	X	119	41.563	42.005	46.518	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.159	41.240	47.732	0.00	0.00
ATOM	1852	HE2	PHE	X	119	43.072	40.213	47.410	0.00	0.00
ATOM	1853	CD2	PHE	X	119	44.128	41.597	48.689	0.00	0.00
ATOM	1854	HD2	PHE	X	119	44.728	40.819	49.138	0.00	0.00
ATOM	1855	C	PHE	X	119	47.651	44.085	51.010	0.00	0.00
ATOM	1856	O	PHE	X	119	47.337	45.104	51.558	0.00	0.00
ATOM	1857	N	TYR	X	120	48.652	43.295	51.455	0.00	0.00

ATOM	1858	H	TYR	X	120	48.745	42.378	51.043	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.512	43.777	52.589	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.936	44.020	53.481	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.408	42.614	53.046	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.661	42.723	54.100	0.00	0.00
ATOM	1863	HB3	TYR	X	120	49.755	41.756	52.885	0.00	0.00
ATOM	1864	CG	TYR	X	120	51.709	42.298	52.350	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.899	42.738	52.877	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.884	43.243	53.832	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.124	42.578	52.188	0.00	0.00
ATOM	1868	HE1	TYR	X	120	55.057	43.016	52.510	0.00	0.00
ATOM	1869	CZ	TYR	X	120	54.220	41.879	50.971	0.00	0.00
ATOM	1870	OH	TYR	X	120	55.395	41.731	50.374	0.00	0.00
ATOM	1871	HH	TYR	X	120	56.208	41.837	50.873	0.00	0.00
ATOM	1872	CE2	TYR	X	120	52.983	41.430	50.369	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.868	40.991	49.389	0.00	0.00
ATOM	1874	CD2	TYR	X	120	51.782	41.702	51.085	0.00	0.00
ATOM	1875	HD2	TYR	X	120	50.853	41.337	50.673	0.00	0.00
ATOM	1876	C	TYR	X	120	50.325	44.967	52.185	0.00	0.00
ATOM	1877	O	TYR	X	120	50.820	45.626	53.047	0.00	0.00
ATOM	1878	N	SER	X	121	50.502	45.222	50.951	0.00	0.00
ATOM	1879	H	SER	X	121	49.917	44.817	50.235	0.00	0.00
ATOM	1880	CA	SER	X	121	51.495	46.182	50.419	0.00	0.00
ATOM	1881	HA	SER	X	121	51.726	46.832	51.263	0.00	0.00
ATOM	1882	CB	SER	X	121	52.868	45.492	50.282	0.00	0.00
ATOM	1883	HB2	SER	X	121	53.579	46.152	49.787	0.00	0.00
ATOM	1884	HB3	SER	X	121	53.270	45.231	51.261	0.00	0.00
ATOM	1885	OG	SER	X	121	52.802	44.365	49.444	0.00	0.00
ATOM	1886	HG	SER	X	121	52.052	43.804	49.653	0.00	0.00
ATOM	1887	C	SER	X	121	51.085	46.885	49.097	0.00	0.00
ATOM	1888	O	SER	X	121	50.161	46.425	48.391	0.00	0.00
ATOM	1889	N	GLY	X	122	51.764	47.977	48.710	0.00	0.00
ATOM	1890	H	GLY	X	122	52.426	48.346	49.378	0.00	0.00
ATOM	1891	CA	GLY	X	122	51.773	48.496	47.338	0.00	0.00
ATOM	1892	HA2	GLY	X	122	52.649	48.038	46.826	0.00	0.00
ATOM	1893	HA3	GLY	X	122	50.965	48.329	46.728	0.00	0.00
ATOM	1894	C	GLY	X	122	52.116	49.953	47.367	0.00	0.00
ATOM	1895	O	GLY	X	122	52.127	50.577	48.440	0.00	0.00
ATOM	1896	N	ALA	X	123	52.236	50.517	46.145	0.00	0.00
ATOM	1897	H	ALA	X	123	52.112	49.970	45.304	0.00	0.00
ATOM	1898	CA	ALA	X	123	52.396	51.887	45.921	0.00	0.00
ATOM	1899	HA	ALA	X	123	51.704	52.439	46.557	0.00	0.00
ATOM	1900	CB	ALA	X	123	53.895	52.365	46.240	0.00	0.00
ATOM	1901	HB1	ALA	X	123	53.822	53.446	46.129	0.00	0.00
ATOM	1902	HB2	ALA	X	123	54.150	52.124	47.272	0.00	0.00
ATOM	1903	HB3	ALA	X	123	54.592	52.000	45.485	0.00	0.00
ATOM	1904	C	ALA	X	123	52.130	52.362	44.458	0.00	0.00
ATOM	1905	O	ALA	X	123	52.343	51.595	43.553	0.00	0.00
ATOM	1906	N	SER	X	124	51.612	53.578	44.349	0.00	0.00
ATOM	1907	H	SER	X	124	51.204	53.975	45.183	0.00	0.00
ATOM	1908	CA	SER	X	124	51.280	54.150	43.031	0.00	0.00
ATOM	1909	HA	SER	X	124	51.070	53.270	42.423	0.00	0.00
ATOM	1910	CB	SER	X	124	50.031	55.150	43.079	0.00	0.00
ATOM	1911	HB2	SER	X	124	49.805	55.292	42.022	0.00	0.00
ATOM	1912	HB3	SER	X	124	49.171	54.634	43.506	0.00	0.00
ATOM	1913	OG	SER	X	124	50.261	56.380	43.719	0.00	0.00
ATOM	1914	HG	SER	X	124	50.066	56.224	44.645	0.00	0.00
ATOM	1915	C	SER	X	124	52.545	54.738	42.352	0.00	0.00
ATOM	1916	O	SER	X	124	52.515	55.034	41.147	0.00	0.00
ATOM	1917	N	SER	X	125	53.675	55.075	43.016	0.00	0.00
ATOM	1918	H	SER	X	125	53.730	54.849	43.999	0.00	0.00
ATOM	1919	CA	SER	X	125	54.845	55.772	42.579	0.00	0.00
ATOM	1920	HA	SER	X	125	54.498	56.603	41.964	0.00	0.00
ATOM	1921	CB	SER	X	125	55.493	56.392	43.777	0.00	0.00
ATOM	1922	HB2	SER	X	125	56.539	56.560	43.522	0.00	0.00
ATOM	1923	HB3	SER	X	125	55.047	57.349	44.048	0.00	0.00
ATOM	1924	OG	SER	X	125	55.518	55.549	44.917	0.00	0.00
ATOM	1925	HG	SER	X	125	56.363	55.116	45.061	0.00	0.00
ATOM	1926	C	SER	X	125	55.941	54.860	41.958	0.00	0.00
ATOM	1927	O	SER	X	125	57.087	55.297	41.717	0.00	0.00

ATOM	1928	N	LEU	X	126	55.661	53.562	41.662	0.00	0.00
ATOM	1929	H	LEU	X	126	54.776	53.150	41.920	0.00	0.00
ATOM	1930	CA	LEU	X	126	56.634	52.721	40.967	0.00	0.00
ATOM	1931	HA	LEU	X	126	57.605	53.056	41.332	0.00	0.00
ATOM	1932	CB	LEU	X	126	56.412	51.225	41.312	0.00	0.00
ATOM	1933	HB2	LEU	X	126	55.514	50.950	40.760	0.00	0.00
ATOM	1934	HB3	LEU	X	126	57.311	50.713	40.968	0.00	0.00
ATOM	1935	CG	LEU	X	126	56.177	51.011	42.764	0.00	0.00
ATOM	1936	HG	LEU	X	126	55.201	51.407	43.046	0.00	0.00
ATOM	1937	CD1	LEU	X	126	56.234	49.546	43.139	0.00	0.00
ATOM	1938	HD11	LEU	X	126	57.220	49.082	43.136	0.00	0.00
ATOM	1939	HD12	LEU	X	126	55.780	49.438	44.124	0.00	0.00
ATOM	1940	HD13	LEU	X	126	55.545	49.016	42.482	0.00	0.00
ATOM	1941	CD2	LEU	X	126	57.306	51.588	43.706	0.00	0.00
ATOM	1942	HD21	LEU	X	126	57.243	52.669	43.827	0.00	0.00
ATOM	1943	HD22	LEU	X	126	57.191	51.151	44.698	0.00	0.00
ATOM	1944	HD23	LEU	X	126	58.327	51.265	43.500	0.00	0.00
ATOM	1945	C	LEU	X	126	56.449	52.980	39.487	0.00	0.00
ATOM	1946	O	LEU	X	126	55.350	53.036	38.960	0.00	0.00
ATOM	1947	N	ASP	X	127	57.587	52.956	38.796	0.00	0.00
ATOM	1948	H	ASP	X	127	58.443	52.808	39.311	0.00	0.00
ATOM	1949	CA	ASP	X	127	57.745	53.441	37.433	0.00	0.00
ATOM	1950	HA	ASP	X	127	56.954	54.181	37.310	0.00	0.00
ATOM	1951	CB	ASP	X	127	59.089	54.095	37.383	0.00	0.00
ATOM	1952	HB2	ASP	X	127	59.202	54.635	36.443	0.00	0.00
ATOM	1953	HB3	ASP	X	127	59.218	54.816	38.190	0.00	0.00
ATOM	1954	CG	ASP	X	127	60.213	53.012	37.442	0.00	0.00
ATOM	1955	OD1	ASP	X	127	60.493	52.349	36.462	0.00	0.00
ATOM	1956	OD2	ASP	X	127	60.950	53.096	38.465	0.00	0.00
ATOM	1957	C	ASP	X	127	57.483	52.418	36.340	0.00	0.00
ATOM	1958	O	ASP	X	127	57.180	52.946	35.266	0.00	0.00
ATOM	1959	N	VAL	X	128	57.420	51.020	36.500	0.00	0.00
ATOM	1960	H	VAL	X	128	57.564	50.665	37.434	0.00	0.00
ATOM	1961	CA	VAL	X	128	56.823	50.026	35.554	0.00	0.00
ATOM	1962	HA	VAL	X	128	57.332	50.297	34.629	0.00	0.00
ATOM	1963	CB	VAL	X	128	57.056	48.529	35.932	0.00	0.00
ATOM	1964	HB	VAL	X	128	58.097	48.474	36.251	0.00	0.00
ATOM	1965	CG1	VAL	X	128	56.265	47.869	37.058	0.00	0.00
ATOM	1966	HG11	VAL	X	128	55.291	47.729	36.588	0.00	0.00
ATOM	1967	HG12	VAL	X	128	56.674	46.908	37.370	0.00	0.00
ATOM	1968	HG13	VAL	X	128	56.039	48.653	37.781	0.00	0.00
ATOM	1969	CG2	VAL	X	128	57.089	47.635	34.704	0.00	0.00
ATOM	1970	HG21	VAL	X	128	57.599	46.688	34.881	0.00	0.00
ATOM	1971	HG22	VAL	X	128	56.113	47.392	34.285	0.00	0.00
ATOM	1972	HG23	VAL	X	128	57.744	48.132	33.988	0.00	0.00
ATOM	1973	C	VAL	X	128	55.318	50.249	35.183	0.00	0.00
ATOM	1974	O	VAL	X	128	54.998	49.962	34.011	0.00	0.00
ATOM	1975	N	TYR	X	129	54.449	50.926	35.919	0.00	0.00
ATOM	1976	H	TYR	X	129	54.824	51.124	36.836	0.00	0.00
ATOM	1977	CA	TYR	X	129	53.110	51.325	35.493	0.00	0.00
ATOM	1978	HA	TYR	X	129	52.947	51.064	34.448	0.00	0.00
ATOM	1979	CB	TYR	X	129	52.084	50.577	36.339	0.00	0.00
ATOM	1980	HB2	TYR	X	129	51.098	51.032	36.239	0.00	0.00
ATOM	1981	HB3	TYR	X	129	51.952	49.568	35.948	0.00	0.00
ATOM	1982	CG	TYR	X	129	52.394	50.386	37.813	0.00	0.00
ATOM	1983	CD1	TYR	X	129	52.920	49.168	38.279	0.00	0.00
ATOM	1984	HD1	TYR	X	129	53.160	48.347	37.620	0.00	0.00
ATOM	1985	CE1	TYR	X	129	53.240	48.890	39.624	0.00	0.00
ATOM	1986	HE1	TYR	X	129	53.754	47.964	39.834	0.00	0.00
ATOM	1987	CZ	TYR	X	129	52.899	49.838	40.579	0.00	0.00
ATOM	1988	OH	TYR	X	129	53.068	49.522	41.851	0.00	0.00
ATOM	1989	HH	TYR	X	129	52.798	50.202	42.472	0.00	0.00
ATOM	1990	CE2	TYR	X	129	52.257	51.033	40.199	0.00	0.00
ATOM	1991	HE2	TYR	X	129	51.794	51.673	40.935	0.00	0.00
ATOM	1992	CD2	TYR	X	129	52.059	51.351	38.825	0.00	0.00
ATOM	1993	HD2	TYR	X	129	51.480	52.203	38.500	0.00	0.00
ATOM	1994	C	TYR	X	129	52.985	52.880	35.527	0.00	0.00
ATOM	1995	O	TYR	X	129	51.826	53.328	35.616	0.00	0.00
ATOM	1996	N	ASP	X	130	54.100	53.685	35.411	0.00	0.00
ATOM	1997	H	ASP	X	130	55.021	53.280	35.496	0.00	0.00

ATOM	1998	CA	ASP	X	130	54.011	55.092	34.908	0.00	0.00
ATOM	1999	HA	ASP	X	130	53.348	55.642	35.575	0.00	0.00
ATOM	2000	CB	ASP	X	130	55.370	55.763	34.936	0.00	0.00
ATOM	2001	HB2	ASP	X	130	55.669	55.775	35.985	0.00	0.00
ATOM	2002	HB3	ASP	X	130	56.071	55.200	34.319	0.00	0.00
ATOM	2003	CG	ASP	X	130	55.379	57.137	34.378	0.00	0.00
ATOM	2004	OD1	ASP	X	130	55.203	57.390	33.170	0.00	0.00
ATOM	2005	OD2	ASP	X	130	55.752	58.088	35.129	0.00	0.00
ATOM	2006	C	ASP	X	130	53.407	55.076	33.487	0.00	0.00
ATOM	2007	O	ASP	X	130	53.846	54.307	32.613	0.00	0.00
ATOM	2008	N	GLY	X	131	52.428	55.956	33.234	0.00	0.00
ATOM	2009	H	GLY	X	131	52.182	56.623	33.952	0.00	0.00
ATOM	2010	CA	GLY	X	131	51.568	55.825	32.044	0.00	0.00
ATOM	2011	HA2	GLY	X	131	51.279	54.816	31.863	0.00	0.00
ATOM	2012	HA3	GLY	X	131	50.618	56.249	32.292	0.00	0.00
ATOM	2013	C	GLY	X	131	51.999	56.505	30.766	0.00	0.00
ATOM	2014	O	GLY	X	131	51.333	56.391	29.735	0.00	0.00
ATOM	2015	N	ARG	X	132	53.137	57.206	30.754	0.00	0.00
ATOM	2016	H	ARG	X	132	53.683	57.198	31.604	0.00	0.00
ATOM	2017	CA	ARG	X	132	53.611	58.051	29.667	0.00	0.00
ATOM	2018	HA	ARG	X	132	52.853	58.797	29.429	0.00	0.00
ATOM	2019	CB	ARG	X	132	54.855	58.857	30.066	0.00	0.00
ATOM	2020	HB2	ARG	X	132	54.921	59.739	29.429	0.00	0.00
ATOM	2021	HB3	ARG	X	132	54.806	59.327	31.048	0.00	0.00
ATOM	2022	CG	ARG	X	132	56.192	58.042	30.070	0.00	0.00
ATOM	2023	HG2	ARG	X	132	55.977	57.147	30.654	0.00	0.00
ATOM	2024	HG3	ARG	X	132	56.365	57.663	29.063	0.00	0.00
ATOM	2025	CD	ARG	X	132	57.348	58.821	30.696	0.00	0.00
ATOM	2026	HD2	ARG	X	132	58.261	58.278	30.452	0.00	0.00
ATOM	2027	HD3	ARG	X	132	57.549	59.783	30.225	0.00	0.00
ATOM	2028	NE	ARG	X	132	57.215	58.994	32.135	0.00	0.00
ATOM	2029	HE	ARG	X	132	56.310	58.732	32.499	0.00	0.00
ATOM	2030	CZ	ARG	X	132	57.924	59.731	32.913	0.00	0.00
ATOM	2031	NH1	ARG	X	132	59.057	60.242	32.495	0.00	0.00
ATOM	2032	HH11	ARG	X	132	59.318	60.161	31.522	0.00	0.00
ATOM	2033	HH12	ARG	X	132	59.481	60.883	33.150	0.00	0.00
ATOM	2034	NH2	ARG	X	132	57.546	59.844	34.192	0.00	0.00
ATOM	2035	HH21	ARG	X	132	56.853	59.196	34.538	0.00	0.00
ATOM	2036	HH22	ARG	X	132	57.971	60.471	34.860	0.00	0.00
ATOM	2037	C	ARG	X	132	53.623	57.303	28.302	0.00	0.00
ATOM	2038	O	ARG	X	132	53.081	57.879	27.387	0.00	0.00
ATOM	2039	N	PHE	X	133	54.206	56.163	28.116	0.00	0.00
ATOM	2040	H	PHE	X	133	54.493	55.700	28.967	0.00	0.00
ATOM	2041	CA	PHE	X	133	54.287	55.476	26.794	0.00	0.00
ATOM	2042	HA	PHE	X	133	54.731	56.132	26.045	0.00	0.00
ATOM	2043	CB	PHE	X	133	55.231	54.286	27.046	0.00	0.00
ATOM	2044	HB2	PHE	X	133	54.865	53.648	27.851	0.00	0.00
ATOM	2045	HB3	PHE	X	133	55.311	53.729	26.114	0.00	0.00
ATOM	2046	CG	PHE	X	133	56.595	54.865	27.324	0.00	0.00
ATOM	2047	CD1	PHE	X	133	57.132	54.907	28.587	0.00	0.00
ATOM	2048	HD1	PHE	X	133	56.532	54.362	29.300	0.00	0.00
ATOM	2049	CE1	PHE	X	133	58.461	55.355	28.776	0.00	0.00
ATOM	2050	HE1	PHE	X	133	58.869	55.335	29.776	0.00	0.00
ATOM	2051	CZ	PHE	X	133	59.068	55.909	27.652	0.00	0.00
ATOM	2052	HZ	PHE	X	133	60.096	56.238	27.644	0.00	0.00
ATOM	2053	CE2	PHE	X	133	58.547	55.858	26.390	0.00	0.00
ATOM	2054	HE2	PHE	X	133	59.033	56.354	25.563	0.00	0.00
ATOM	2055	CD2	PHE	X	133	57.240	55.388	26.221	0.00	0.00
ATOM	2056	HD2	PHE	X	133	56.872	55.304	25.210	0.00	0.00
ATOM	2057	C	PHE	X	133	52.979	54.954	26.230	0.00	0.00
ATOM	2058	O	PHE	X	133	52.652	55.338	25.098	0.00	0.00
ATOM	2059	N	LEU	X	134	52.089	54.346	27.027	0.00	0.00
ATOM	2060	H	LEU	X	134	52.346	54.071	27.964	0.00	0.00
ATOM	2061	CA	LEU	X	134	50.715	54.065	26.573	0.00	0.00
ATOM	2062	HA	LEU	X	134	50.784	53.440	25.683	0.00	0.00
ATOM	2063	CB	LEU	X	134	49.862	53.384	27.739	0.00	0.00
ATOM	2064	HB2	LEU	X	134	50.360	52.475	28.077	0.00	0.00
ATOM	2065	HB3	LEU	X	134	49.778	54.106	28.552	0.00	0.00
ATOM	2066	CG	LEU	X	134	48.484	52.885	27.326	0.00	0.00
ATOM	2067	HG	LEU	X	134	47.966	53.726	26.864	0.00	0.00

ATOM	2068	CD1	LEU	X	134	48.486	51.630	26.398	0.00	0.00
ATOM	2069	HD11	LEU	X	134	49.194	51.777	25.582	0.00	0.00
ATOM	2070	HD12	LEU	X	134	48.928	50.976	27.150	0.00	0.00
ATOM	2071	HD13	LEU	X	134	47.492	51.420	26.002	0.00	0.00
ATOM	2072	CD2	LEU	X	134	47.585	52.600	28.532	0.00	0.00
ATOM	2073	HD21	LEU	X	134	47.687	53.382	29.284	0.00	0.00
ATOM	2074	HD22	LEU	X	134	46.550	52.605	28.188	0.00	0.00
ATOM	2075	HD23	LEU	X	134	47.744	51.592	28.916	0.00	0.00
ATOM	2076	C	LEU	X	134	50.014	55.362	26.199	0.00	0.00
ATOM	2077	O	LEU	X	134	49.301	55.395	25.194	0.00	0.00
ATOM	2078	N	VAL	X	135	50.208	56.380	27.028	0.00	0.00
ATOM	2079	H	VAL	X	135	50.859	56.325	27.798	0.00	0.00
ATOM	2080	CA	VAL	X	135	49.316	57.632	26.920	0.00	0.00
ATOM	2081	HA	VAL	X	135	48.306	57.281	26.710	0.00	0.00
ATOM	2082	CB	VAL	X	135	49.347	58.360	28.274	0.00	0.00
ATOM	2083	HB	VAL	X	135	50.391	58.410	28.581	0.00	0.00
ATOM	2084	CG1	VAL	X	135	48.922	59.898	28.323	0.00	0.00
ATOM	2085	HG11	VAL	X	135	47.852	60.025	28.157	0.00	0.00
ATOM	2086	HG12	VAL	X	135	49.077	60.222	29.352	0.00	0.00
ATOM	2087	HG13	VAL	X	135	49.564	60.402	27.600	0.00	0.00
ATOM	2088	CG2	VAL	X	135	48.575	57.681	29.485	0.00	0.00
ATOM	2089	HG21	VAL	X	135	48.842	57.993	30.495	0.00	0.00
ATOM	2090	HG22	VAL	X	135	47.498	57.852	29.489	0.00	0.00
ATOM	2091	HG23	VAL	X	135	48.711	56.600	29.455	0.00	0.00
ATOM	2092	C	VAL	X	135	49.725	58.505	25.759	0.00	0.00
ATOM	2093	O	VAL	X	135	48.904	59.236	25.260	0.00	0.00
ATOM	2094	N	GLN	X	136	51.019	58.410	25.291	0.00	0.00
ATOM	2095	H	GLN	X	136	51.613	57.716	25.720	0.00	0.00
ATOM	2096	CA	GLN	X	136	51.400	59.023	23.985	0.00	0.00
ATOM	2097	HA	GLN	X	136	51.037	60.043	23.863	0.00	0.00
ATOM	2098	CB	GLN	X	136	52.916	59.116	23.932	0.00	0.00
ATOM	2099	HB2	GLN	X	136	53.219	59.738	24.775	0.00	0.00
ATOM	2100	HB3	GLN	X	136	53.286	58.098	24.054	0.00	0.00
ATOM	2101	CG	GLN	X	136	53.365	59.666	22.608	0.00	0.00
ATOM	2102	HG2	GLN	X	136	52.896	60.543	22.163	0.00	0.00
ATOM	2103	HG3	GLN	X	136	54.397	60.002	22.715	0.00	0.00
ATOM	2104	CD	GLN	X	136	53.501	58.629	21.485	0.00	0.00
ATOM	2105	OE1	GLN	X	136	54.428	57.824	21.492	0.00	0.00
ATOM	2106	NE2	GLN	X	136	52.789	58.800	20.372	0.00	0.00
ATOM	2107	HE21	GLN	X	136	52.939	58.134	19.628	0.00	0.00
ATOM	2108	HE22	GLN	X	136	52.284	59.668	20.260	0.00	0.00
ATOM	2109	C	GLN	X	136	50.781	58.142	22.874	0.00	0.00
ATOM	2110	O	GLN	X	136	50.096	58.705	22.063	0.00	0.00
ATOM	2111	N	ALA	X	137	51.038	56.870	22.969	0.00	0.00
ATOM	2112	H	ALA	X	137	51.468	56.478	23.795	0.00	0.00
ATOM	2113	CA	ALA	X	137	50.849	55.965	21.848	0.00	0.00
ATOM	2114	HA	ALA	X	137	51.392	56.433	21.027	0.00	0.00
ATOM	2115	CB	ALA	X	137	51.643	54.659	22.156	0.00	0.00
ATOM	2116	HB1	ALA	X	137	52.713	54.750	22.339	0.00	0.00
ATOM	2117	HB2	ALA	X	137	51.161	54.130	22.979	0.00	0.00
ATOM	2118	HB3	ALA	X	137	51.565	54.116	21.214	0.00	0.00
ATOM	2119	C	ALA	X	137	49.367	55.788	21.503	0.00	0.00
ATOM	2120	O	ALA	X	137	49.041	56.116	20.338	0.00	0.00
ATOM	2121	N	GLU	X	138	48.587	55.283	22.388	0.00	0.00
ATOM	2122	H	GLU	X	138	49.071	55.148	23.264	0.00	0.00
ATOM	2123	CA	GLU	X	138	47.192	54.928	22.314	0.00	0.00
ATOM	2124	HA	GLU	X	138	46.873	54.814	21.278	0.00	0.00
ATOM	2125	CB	GLU	X	138	46.963	53.616	23.096	0.00	0.00
ATOM	2126	HB2	GLU	X	138	47.082	53.719	24.174	0.00	0.00
ATOM	2127	HB3	GLU	X	138	45.881	53.492	23.038	0.00	0.00
ATOM	2128	CG	GLU	X	138	47.604	52.367	22.466	0.00	0.00
ATOM	2129	HG2	GLU	X	138	48.682	52.514	22.528	0.00	0.00
ATOM	2130	HG3	GLU	X	138	47.430	51.512	23.120	0.00	0.00
ATOM	2131	CD	GLU	X	138	47.153	52.031	21.059	0.00	0.00
ATOM	2132	OE1	GLU	X	138	45.936	52.100	20.758	0.00	0.00
ATOM	2133	OE2	GLU	X	138	48.034	51.509	20.310	0.00	0.00
ATOM	2134	C	GLU	X	138	46.239	56.007	22.799	0.00	0.00
ATOM	2135	O	GLU	X	138	45.025	55.884	22.784	0.00	0.00
ATOM	2136	N	ARG	X	139	46.697	57.236	23.234	0.00	0.00
ATOM	2137	H	ARG	X	139	47.691	57.352	23.372	0.00	0.00

ATOM	2138	CA	ARG	X	139	45.870	58.382	23.624	0.00	0.00
ATOM	2139	HA	ARG	X	139	46.560	59.103	24.062	0.00	0.00
ATOM	2140	CB	ARG	X	139	45.258	59.084	22.351	0.00	0.00
ATOM	2141	HB2	ARG	X	139	46.125	59.233	21.708	0.00	0.00
ATOM	2142	HB3	ARG	X	139	44.496	58.485	21.853	0.00	0.00
ATOM	2143	CG	ARG	X	139	44.735	60.481	22.642	0.00	0.00
ATOM	2144	HG2	ARG	X	139	43.738	60.367	23.066	0.00	0.00
ATOM	2145	HG3	ARG	X	139	45.459	60.997	23.272	0.00	0.00
ATOM	2146	CD	ARG	X	139	44.490	61.314	21.365	0.00	0.00
ATOM	2147	HD2	ARG	X	139	45.472	61.150	20.921	0.00	0.00
ATOM	2148	HD3	ARG	X	139	43.635	60.932	20.807	0.00	0.00
ATOM	2149	NE	ARG	X	139	44.360	62.744	21.644	0.00	0.00
ATOM	2150	HE	ARG	X	139	43.415	63.075	21.512	0.00	0.00
ATOM	2151	CZ	ARG	X	139	45.286	63.632	21.959	0.00	0.00
ATOM	2152	NH1	ARG	X	139	46.558	63.349	21.946	0.00	0.00
ATOM	2153	HH11	ARG	X	139	46.785	62.429	21.598	0.00	0.00
ATOM	2154	HH12	ARG	X	139	47.362	63.940	22.104	0.00	0.00
ATOM	2155	NH2	ARG	X	139	44.830	64.828	22.243	0.00	0.00
ATOM	2156	HH21	ARG	X	139	43.868	65.037	22.019	0.00	0.00
ATOM	2157	HH22	ARG	X	139	45.476	65.599	22.333	0.00	0.00
ATOM	2158	C	ARG	X	139	44.921	58.094	24.806	0.00	0.00
ATOM	2159	O	ARG	X	139	44.481	59.101	25.314	0.00	0.00
ATOM	2160	N	THR	X	140	44.568	56.898	25.342	0.00	0.00
ATOM	2161	H	THR	X	140	44.891	56.051	24.897	0.00	0.00
ATOM	2162	CA	THR	X	140	43.862	56.864	26.659	0.00	0.00
ATOM	2163	HA	THR	X	140	42.890	57.352	26.592	0.00	0.00
ATOM	2164	CB	THR	X	140	43.611	55.423	26.927	0.00	0.00
ATOM	2165	HB	THR	X	140	43.117	55.384	27.898	0.00	0.00
ATOM	2166	CG2	THR	X	140	42.596	54.874	25.857	0.00	0.00
ATOM	2167	HG21	THR	X	140	41.595	55.263	26.045	0.00	0.00
ATOM	2168	HG22	THR	X	140	42.876	55.071	24.822	0.00	0.00
ATOM	2169	HG23	THR	X	140	42.562	53.799	26.033	0.00	0.00
ATOM	2170	OG1	THR	X	140	44.796	54.666	26.950	0.00	0.00
ATOM	2171	HG1	THR	X	140	45.399	55.222	27.448	0.00	0.00
ATOM	2172	C	THR	X	140	44.701	57.532	27.790	0.00	0.00
ATOM	2173	O	THR	X	140	45.873	57.293	27.872	0.00	0.00
ATOM	2174	N	VAL	X	141	43.958	58.189	28.713	0.00	0.00
ATOM	2175	H	VAL	X	141	42.963	58.183	28.536	0.00	0.00
ATOM	2176	CA	VAL	X	141	44.501	58.912	29.907	0.00	0.00
ATOM	2177	HA	VAL	X	141	45.417	59.380	29.546	0.00	0.00
ATOM	2178	CB	VAL	X	141	43.541	60.106	30.225	0.00	0.00
ATOM	2179	HB	VAL	X	141	42.514	59.756	30.328	0.00	0.00
ATOM	2180	CG1	VAL	X	141	43.848	60.774	31.477	0.00	0.00
ATOM	2181	HG11	VAL	X	141	44.912	60.991	31.576	0.00	0.00
ATOM	2182	HG12	VAL	X	141	43.287	61.706	31.534	0.00	0.00
ATOM	2183	HG13	VAL	X	141	43.589	60.129	32.317	0.00	0.00
ATOM	2184	CG2	VAL	X	141	43.612	61.057	29.047	0.00	0.00
ATOM	2185	HG21	VAL	X	141	43.838	60.551	28.108	0.00	0.00
ATOM	2186	HG22	VAL	X	141	42.715	61.647	28.861	0.00	0.00
ATOM	2187	HG23	VAL	X	141	44.428	61.750	29.253	0.00	0.00
ATOM	2188	C	VAL	X	141	44.769	57.959	31.063	0.00	0.00
ATOM	2189	O	VAL	X	141	43.843	57.247	31.365	0.00	0.00
ATOM	2190	N	LEU	X	142	45.994	58.039	31.651	0.00	0.00
ATOM	2191	H	LEU	X	142	46.530	58.882	31.498	0.00	0.00
ATOM	2192	CA	LEU	X	142	46.402	57.072	32.696	0.00	0.00
ATOM	2193	HA	LEU	X	142	45.762	56.193	32.620	0.00	0.00
ATOM	2194	CB	LEU	X	142	47.803	56.515	32.420	0.00	0.00
ATOM	2195	HB2	LEU	X	142	47.754	56.163	31.390	0.00	0.00
ATOM	2196	HB3	LEU	X	142	48.550	57.293	32.577	0.00	0.00
ATOM	2197	CG	LEU	X	142	48.219	55.209	33.168	0.00	0.00
ATOM	2198	HG	LEU	X	142	49.040	54.719	32.646	0.00	0.00
ATOM	2199	CD1	LEU	X	142	48.540	55.589	34.669	0.00	0.00
ATOM	2200	HD11	LEU	X	142	49.255	56.407	34.763	0.00	0.00
ATOM	2201	HD12	LEU	X	142	47.682	55.754	35.322	0.00	0.00
ATOM	2202	HD13	LEU	X	142	49.026	54.725	35.122	0.00	0.00
ATOM	2203	CD2	LEU	X	142	47.079	54.208	33.219	0.00	0.00
ATOM	2204	HD21	LEU	X	142	46.652	54.044	32.229	0.00	0.00
ATOM	2205	HD22	LEU	X	142	47.431	53.280	33.670	0.00	0.00
ATOM	2206	HD23	LEU	X	142	46.362	54.625	33.926	0.00	0.00
ATOM	2207	C	LEU	X	142	46.022	57.733	34.039	0.00	0.00

ATOM	2208	O	LEU	X	142	46.568	58.786	34.347	0.00	0.00
ATOM	2209	N	VAL	X	143	45.230	57.083	34.894	0.00	0.00
ATOM	2210	H	VAL	X	143	45.006	56.134	34.631	0.00	0.00
ATOM	2211	CA	VAL	X	143	44.954	57.436	36.260	0.00	0.00
ATOM	2212	HA	VAL	X	143	45.467	58.383	36.428	0.00	0.00
ATOM	2213	CB	VAL	X	143	43.375	57.561	36.574	0.00	0.00
ATOM	2214	HB	VAL	X	143	42.949	56.592	36.315	0.00	0.00
ATOM	2215	CG1	VAL	X	143	43.065	57.907	38.057	0.00	0.00
ATOM	2216	HG11	VAL	X	143	42.028	58.213	38.199	0.00	0.00
ATOM	2217	HG12	VAL	X	143	43.246	57.107	38.774	0.00	0.00
ATOM	2218	HG13	VAL	X	143	43.712	58.738	38.338	0.00	0.00
ATOM	2219	CG2	VAL	X	143	42.673	58.632	35.700	0.00	0.00
ATOM	2220	HG21	VAL	X	143	41.608	58.627	35.936	0.00	0.00
ATOM	2221	HG22	VAL	X	143	43.121	59.583	35.989	0.00	0.00
ATOM	2222	HG23	VAL	X	143	42.839	58.377	34.653	0.00	0.00
ATOM	2223	C	VAL	X	143	45.541	56.393	37.188	0.00	0.00
ATOM	2224	O	VAL	X	143	45.308	55.215	36.816	0.00	0.00
ATOM	2225	N	SER	X	144	46.079	56.612	38.383	0.00	0.00
ATOM	2226	H	SER	X	144	45.959	57.566	38.693	0.00	0.00
ATOM	2227	CA	SER	X	144	46.221	55.641	39.445	0.00	0.00
ATOM	2228	HA	SER	X	144	45.574	54.771	39.337	0.00	0.00
ATOM	2229	CB	SER	X	144	47.652	55.006	39.359	0.00	0.00
ATOM	2230	HB2	SER	X	144	47.681	54.094	39.954	0.00	0.00
ATOM	2231	HB3	SER	X	144	47.742	54.754	38.303	0.00	0.00
ATOM	2232	OG	SER	X	144	48.765	55.853	39.540	0.00	0.00
ATOM	2233	HG	SER	X	144	49.473	55.360	39.119	0.00	0.00
ATOM	2234	C	SER	X	144	46.102	56.236	40.849	0.00	0.00
ATOM	2235	O	SER	X	144	46.173	57.461	41.052	0.00	0.00
ATOM	2236	N	MET	X	145	46.087	55.455	41.950	0.00	0.00
ATOM	2237	H	MET	X	145	46.189	54.456	41.843	0.00	0.00
ATOM	2238	CA	MET	X	145	46.015	56.006	43.331	0.00	0.00
ATOM	2239	HA	MET	X	145	46.677	56.860	43.473	0.00	0.00
ATOM	2240	CB	MET	X	145	44.570	56.475	43.733	0.00	0.00
ATOM	2241	HB2	MET	X	145	44.631	57.147	44.588	0.00	0.00
ATOM	2242	HB3	MET	X	145	44.119	56.974	42.876	0.00	0.00
ATOM	2243	CG	MET	X	145	43.709	55.335	44.149	0.00	0.00
ATOM	2244	HG2	MET	X	145	44.020	54.842	45.070	0.00	0.00
ATOM	2245	HG3	MET	X	145	42.732	55.783	44.336	0.00	0.00
ATOM	2246	SD	MET	X	145	43.347	53.970	42.985	0.00	0.00
ATOM	2247	CE	MET	X	145	42.639	54.875	41.536	0.00	0.00
ATOM	2248	HE1	MET	X	145	43.402	55.144	40.805	0.00	0.00
ATOM	2249	HE2	MET	X	145	42.029	54.079	41.110	0.00	0.00
ATOM	2250	HE3	MET	X	145	41.891	55.564	41.929	0.00	0.00
ATOM	2251	C	MET	X	145	46.669	55.051	44.403	0.00	0.00
ATOM	2252	O	MET	X	145	46.652	53.808	44.268	0.00	0.00
ATOM	2253	N	ASN	X	146	47.162	55.695	45.492	0.00	0.00
ATOM	2254	H	ASN	X	146	46.859	56.646	45.642	0.00	0.00
ATOM	2255	CA	ASN	X	146	47.371	54.915	46.731	0.00	0.00
ATOM	2256	HA	ASN	X	146	47.816	53.945	46.509	0.00	0.00
ATOM	2257	CB	ASN	X	146	48.287	55.748	47.689	0.00	0.00
ATOM	2258	HB2	ASN	X	146	47.862	56.729	47.901	0.00	0.00
ATOM	2259	HB3	ASN	X	146	48.381	55.139	48.588	0.00	0.00
ATOM	2260	CG	ASN	X	146	49.748	56.041	47.208	0.00	0.00
ATOM	2261	OD1	ASN	X	146	50.214	55.485	46.265	0.00	0.00
ATOM	2262	ND2	ASN	X	146	50.395	56.958	47.869	0.00	0.00
ATOM	2263	HD21	ASN	X	146	51.361	57.140	47.635	0.00	0.00
ATOM	2264	HD22	ASN	X	146	49.981	57.431	48.660	0.00	0.00
ATOM	2265	C	ASN	X	146	46.078	54.670	47.565	0.00	0.00
ATOM	2266	O	ASN	X	146	45.064	55.417	47.472	0.00	0.00
ATOM	2267	N	TYR	X	147	46.095	53.556	48.304	0.00	0.00
ATOM	2268	H	TYR	X	147	46.887	52.930	48.268	0.00	0.00
ATOM	2269	CA	TYR	X	147	45.044	53.091	49.159	0.00	0.00
ATOM	2270	HA	TYR	X	147	44.473	53.912	49.592	0.00	0.00
ATOM	2271	CB	TYR	X	147	44.127	52.343	48.206	0.00	0.00
ATOM	2272	HB2	TYR	X	147	43.181	52.234	48.737	0.00	0.00
ATOM	2273	HB3	TYR	X	147	43.846	52.931	47.331	0.00	0.00
ATOM	2274	CG	TYR	X	147	44.535	50.923	47.723	0.00	0.00
ATOM	2275	CD1	TYR	X	147	45.006	50.798	46.383	0.00	0.00
ATOM	2276	HD1	TYR	X	147	45.212	51.696	45.819	0.00	0.00
ATOM	2277	CE1	TYR	X	147	45.247	49.530	45.805	0.00	0.00

ATOM	2278	HE1	TYR	X	147	45.419	49.344	44.755	0.00	0.00
ATOM	2279	CZ	TYR	X	147	44.847	48.398	46.541	0.00	0.00
ATOM	2280	OH	TYR	X	147	44.958	47.140	46.048	0.00	0.00
ATOM	2281	HH	TYR	X	147	45.420	47.015	45.216	0.00	0.00
ATOM	2282	CE2	TYR	X	147	44.377	48.507	47.871	0.00	0.00
ATOM	2283	HE2	TYR	X	147	44.031	47.631	48.400	0.00	0.00
ATOM	2284	CD2	TYR	X	147	44.309	49.799	48.486	0.00	0.00
ATOM	2285	HD2	TYR	X	147	43.857	49.772	49.467	0.00	0.00
ATOM	2286	C	TYR	X	147	45.434	52.277	50.402	0.00	0.00
ATOM	2287	O	TYR	X	147	46.518	51.700	50.471	0.00	0.00
ATOM	2288	N	ARG	X	148	44.682	52.298	51.520	0.00	0.00
ATOM	2289	H	ARG	X	148	43.771	52.730	51.457	0.00	0.00
ATOM	2290	CA	ARG	X	148	44.995	51.513	52.695	0.00	0.00
ATOM	2291	HA	ARG	X	148	45.984	51.893	52.953	0.00	0.00
ATOM	2292	CB	ARG	X	148	44.137	51.895	53.881	0.00	0.00
ATOM	2293	HB2	ARG	X	148	43.104	51.802	53.546	0.00	0.00
ATOM	2294	HB3	ARG	X	148	44.311	51.176	54.682	0.00	0.00
ATOM	2295	CG	ARG	X	148	44.388	53.338	54.317	0.00	0.00
ATOM	2296	HG2	ARG	X	148	45.362	53.481	54.783	0.00	0.00
ATOM	2297	HG3	ARG	X	148	44.294	54.077	53.521	0.00	0.00
ATOM	2298	CD	ARG	X	148	43.319	53.650	55.332	0.00	0.00
ATOM	2299	HD2	ARG	X	148	43.225	52.783	55.986	0.00	0.00
ATOM	2300	HD3	ARG	X	148	43.709	54.581	55.744	0.00	0.00
ATOM	2301	NE	ARG	X	148	42.024	53.968	54.727	0.00	0.00
ATOM	2302	HE	ARG	X	148	41.912	53.984	53.724	0.00	0.00
ATOM	2303	CZ	ARG	X	148	40.930	54.108	55.457	0.00	0.00
ATOM	2304	NH1	ARG	X	148	40.864	54.132	56.788	0.00	0.00
ATOM	2305	HH11	ARG	X	148	41.705	54.210	57.341	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.970	54.087	57.257	0.00	0.00
ATOM	2307	NH2	ARG	X	148	39.816	54.283	54.782	0.00	0.00
ATOM	2308	HH21	ARG	X	148	39.783	54.312	53.773	0.00	0.00
ATOM	2309	HH22	ARG	X	148	38.968	54.513	55.279	0.00	0.00
ATOM	2310	C	ARG	X	148	45.120	49.937	52.420	0.00	0.00
ATOM	2311	O	ARG	X	148	44.156	49.216	52.239	0.00	0.00
ATOM	2312	N	VAL	X	149	46.411	49.521	52.503	0.00	0.00
ATOM	2313	H	VAL	X	149	47.085	50.269	52.584	0.00	0.00
ATOM	2314	CA	VAL	X	149	46.930	48.168	52.558	0.00	0.00
ATOM	2315	HA	VAL	X	149	46.289	47.617	51.870	0.00	0.00
ATOM	2316	CB	VAL	X	149	48.333	48.156	51.936	0.00	0.00
ATOM	2317	HB	VAL	X	149	48.719	47.154	52.125	0.00	0.00
ATOM	2318	CG1	VAL	X	149	48.359	48.280	50.393	0.00	0.00
ATOM	2319	HG11	VAL	X	149	47.900	47.441	49.871	0.00	0.00
ATOM	2320	HG12	VAL	X	149	47.718	49.130	50.157	0.00	0.00
ATOM	2321	HG13	VAL	X	149	49.364	48.457	50.011	0.00	0.00
ATOM	2322	CG2	VAL	X	149	49.201	49.344	52.473	0.00	0.00
ATOM	2323	HG21	VAL	X	149	48.755	50.208	51.981	0.00	0.00
ATOM	2324	HG22	VAL	X	149	49.050	49.386	53.552	0.00	0.00
ATOM	2325	HG23	VAL	X	149	50.232	49.200	52.149	0.00	0.00
ATOM	2326	C	VAL	X	149	46.905	47.632	53.972	0.00	0.00
ATOM	2327	O	VAL	X	149	46.583	48.410	54.906	0.00	0.00
ATOM	2328	N	GLY	X	150	47.164	46.366	54.092	0.00	0.00
ATOM	2329	H	GLY	X	150	47.353	45.917	53.208	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.426	45.624	55.412	0.00	0.00
ATOM	2331	HA2	GLY	X	150	47.805	44.625	55.226	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.176	46.267	55.918	0.00	0.00
ATOM	2333	C	GLY	X	150	46.292	45.582	56.441	0.00	0.00
ATOM	2334	O	GLY	X	150	45.113	45.678	56.030	0.00	0.00
ATOM	2335	N	ALA	X	151	46.569	45.687	57.778	0.00	0.00
ATOM	2336	H	ALA	X	151	47.562	45.761	57.946	0.00	0.00
ATOM	2337	CA	ALA	X	151	45.554	45.819	58.866	0.00	0.00
ATOM	2338	HA	ALA	X	151	44.897	44.949	58.867	0.00	0.00
ATOM	2339	CB	ALA	X	151	46.217	45.700	60.234	0.00	0.00
ATOM	2340	HB1	ALA	X	151	46.950	46.500	60.340	0.00	0.00
ATOM	2341	HB2	ALA	X	151	45.499	45.781	61.050	0.00	0.00
ATOM	2342	HB3	ALA	X	151	46.854	44.824	60.358	0.00	0.00
ATOM	2343	C	ALA	X	151	44.722	47.140	58.663	0.00	0.00
ATOM	2344	O	ALA	X	151	43.502	47.120	58.769	0.00	0.00
ATOM	2345	N	PHE	X	152	45.368	48.238	58.307	0.00	0.00
ATOM	2346	H	PHE	X	152	46.344	48.205	58.046	0.00	0.00
ATOM	2347	CA	PHE	X	152	44.700	49.556	58.009	0.00	0.00

ATOM	2348	HA	PHE	X	152	44.256	50.006	58.897	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.842	50.589	57.684	0.00	0.00
ATOM	2350	HB2	PHE	X	152	46.178	50.336	56.679	0.00	0.00
ATOM	2351	HB3	PHE	X	152	45.410	51.590	57.706	0.00	0.00
ATOM	2352	CG	PHE	X	152	47.000	50.512	58.696	0.00	0.00
ATOM	2353	CD1	PHE	X	152	48.280	50.097	58.317	0.00	0.00
ATOM	2354	HD1	PHE	X	152	48.420	49.768	57.298	0.00	0.00
ATOM	2355	CE1	PHE	X	152	49.213	49.862	59.273	0.00	0.00
ATOM	2356	HE1	PHE	X	152	50.152	49.444	58.941	0.00	0.00
ATOM	2357	CZ	PHE	X	152	48.997	50.247	60.606	0.00	0.00
ATOM	2358	HZ	PHE	X	152	49.697	50.054	61.405	0.00	0.00
ATOM	2359	CE2	PHE	X	152	47.722	50.757	60.960	0.00	0.00
ATOM	2360	HE2	PHE	X	152	47.516	51.043	61.981	0.00	0.00
ATOM	2361	CD2	PHE	X	152	46.752	50.862	60.001	0.00	0.00
ATOM	2362	HD2	PHE	X	152	45.749	51.106	60.319	0.00	0.00
ATOM	2363	C	PHE	X	152	43.638	49.559	56.964	0.00	0.00
ATOM	2364	O	PHE	X	152	42.714	50.367	56.990	0.00	0.00
ATOM	2365	N	GLY	X	153	43.844	48.642	55.939	0.00	0.00
ATOM	2366	H	GLY	X	153	44.647	48.034	56.022	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.773	48.336	54.990	0.00	0.00
ATOM	2368	HA2	GLY	X	153	42.160	49.303	54.774	0.00	0.00
ATOM	2369	HA3	GLY	X	153	43.172	47.989	54.079	0.00	0.00
ATOM	2370	C	GLY	X	153	41.712	47.292	55.421	0.00	0.00
ATOM	2371	O	GLY	X	153	40.539	47.368	54.991	0.00	0.00
ATOM	2372	N	PHE	X	154	42.183	46.146	56.014	0.00	0.00
ATOM	2373	H	PHE	X	154	43.176	46.102	56.197	0.00	0.00
ATOM	2374	CA	PHE	X	154	41.509	44.832	56.010	0.00	0.00
ATOM	2375	HA	PHE	X	154	40.480	44.924	55.663	0.00	0.00
ATOM	2376	CB	PHE	X	154	42.410	43.943	55.089	0.00	0.00
ATOM	2377	HB2	PHE	X	154	43.460	44.010	55.373	0.00	0.00
ATOM	2378	HB3	PHE	X	154	41.961	42.951	55.129	0.00	0.00
ATOM	2379	CG	PHE	X	154	42.333	44.433	53.651	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.415	45.157	53.108	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.359	45.255	53.623	0.00	0.00
ATOM	2382	CE1	PHE	X	154	43.222	45.796	51.880	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.993	46.465	51.528	0.00	0.00
ATOM	2384	CZ	PHE	X	154	42.047	45.718	51.168	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.990	46.228	50.217	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.034	44.859	51.632	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.111	44.765	51.079	0.00	0.00
ATOM	2388	CD2	PHE	X	154	41.135	44.305	52.934	0.00	0.00
ATOM	2389	HD2	PHE	X	154	40.327	43.687	53.299	0.00	0.00
ATOM	2390	C	PHE	X	154	41.217	44.163	57.333	0.00	0.00
ATOM	2391	O	PHE	X	154	40.797	43.015	57.351	0.00	0.00
ATOM	2392	N	LEU	X	155	41.548	44.773	58.494	0.00	0.00
ATOM	2393	H	LEU	X	155	41.900	45.715	58.403	0.00	0.00
ATOM	2394	CA	LEU	X	155	41.119	44.380	59.858	0.00	0.00
ATOM	2395	HA	LEU	X	155	41.302	43.319	60.027	0.00	0.00
ATOM	2396	CB	LEU	X	155	42.050	45.160	60.839	0.00	0.00
ATOM	2397	HB2	LEU	X	155	43.103	45.055	60.576	0.00	0.00
ATOM	2398	HB3	LEU	X	155	41.673	46.181	60.787	0.00	0.00
ATOM	2399	CG	LEU	X	155	42.000	44.610	62.246	0.00	0.00
ATOM	2400	HG	LEU	X	155	41.943	43.524	62.184	0.00	0.00
ATOM	2401	CD1	LEU	X	155	43.293	44.871	63.025	0.00	0.00
ATOM	2402	HD11	LEU	X	155	44.187	44.452	62.562	0.00	0.00
ATOM	2403	HD12	LEU	X	155	43.471	45.899	63.339	0.00	0.00
ATOM	2404	HD13	LEU	X	155	43.252	44.258	63.925	0.00	0.00
ATOM	2405	CD2	LEU	X	155	40.826	45.195	63.026	0.00	0.00
ATOM	2406	HD21	LEU	X	155	41.150	46.225	63.177	0.00	0.00
ATOM	2407	HD22	LEU	X	155	39.966	45.129	62.359	0.00	0.00
ATOM	2408	HD23	LEU	X	155	40.694	44.814	64.039	0.00	0.00
ATOM	2409	C	LEU	X	155	39.605	44.644	59.954	0.00	0.00
ATOM	2410	O	LEU	X	155	39.292	45.841	60.163	0.00	0.00
ATOM	2411	N	ALA	X	156	38.745	43.647	59.705	0.00	0.00
ATOM	2412	H	ALA	X	156	39.038	42.796	59.246	0.00	0.00
ATOM	2413	CA	ALA	X	156	37.418	43.620	60.241	0.00	0.00
ATOM	2414	HA	ALA	X	156	37.068	44.634	60.436	0.00	0.00
ATOM	2415	CB	ALA	X	156	36.429	42.862	59.284	0.00	0.00
ATOM	2416	HB1	ALA	X	156	36.637	41.827	59.012	0.00	0.00
ATOM	2417	HB2	ALA	X	156	35.427	42.893	59.712	0.00	0.00

ATOM	2418	HB3	ALA	X	156	36.366	43.359	58.316	0.00	0.00
ATOM	2419	C	ALA	X	156	37.416	43.003	61.626	0.00	0.00
ATOM	2420	O	ALA	X	156	37.863	41.908	61.759	0.00	0.00
ATOM	2421	N	LEU	X	157	36.657	43.507	62.523	0.00	0.00
ATOM	2422	H	LEU	X	157	36.183	44.366	62.284	0.00	0.00
ATOM	2423	CA	LEU	X	157	36.261	42.808	63.738	0.00	0.00
ATOM	2424	HA	LEU	X	157	36.638	41.789	63.829	0.00	0.00
ATOM	2425	CB	LEU	X	157	36.921	43.730	64.829	0.00	0.00
ATOM	2426	HB2	LEU	X	157	37.964	43.847	64.537	0.00	0.00
ATOM	2427	HB3	LEU	X	157	36.486	44.722	64.712	0.00	0.00
ATOM	2428	CG	LEU	X	157	36.741	43.360	66.274	0.00	0.00
ATOM	2429	HG	LEU	X	157	35.703	43.302	66.601	0.00	0.00
ATOM	2430	CD1	LEU	X	157	37.416	42.038	66.647	0.00	0.00
ATOM	2431	HD11	LEU	X	157	36.952	41.213	66.106	0.00	0.00
ATOM	2432	HD12	LEU	X	157	38.462	42.219	66.400	0.00	0.00
ATOM	2433	HD13	LEU	X	157	37.142	41.988	67.701	0.00	0.00
ATOM	2434	CD2	LEU	X	157	37.349	44.345	67.218	0.00	0.00
ATOM	2435	HD21	LEU	X	157	36.806	45.270	67.025	0.00	0.00
ATOM	2436	HD22	LEU	X	157	37.148	44.079	68.256	0.00	0.00
ATOM	2437	HD23	LEU	X	157	38.398	44.500	66.965	0.00	0.00
ATOM	2438	C	LEU	X	157	34.743	42.785	63.828	0.00	0.00
ATOM	2439	O	LEU	X	157	34.156	43.782	64.154	0.00	0.00
ATOM	2440	N	PRO	X	158	34.121	41.583	63.500	0.00	0.00
ATOM	2441	CD	PRO	X	158	34.716	40.489	62.765	0.00	0.00
ATOM	2442	HD2	PRO	X	158	35.658	40.105	63.155	0.00	0.00
ATOM	2443	HD3	PRO	X	158	35.014	40.822	61.771	0.00	0.00
ATOM	2444	CG	PRO	X	158	33.661	39.383	62.836	0.00	0.00
ATOM	2445	HG2	PRO	X	158	33.645	38.911	63.818	0.00	0.00
ATOM	2446	HG3	PRO	X	158	33.785	38.637	62.050	0.00	0.00
ATOM	2447	CB	PRO	X	158	32.369	40.251	62.699	0.00	0.00
ATOM	2448	HB2	PRO	X	158	31.502	39.689	63.046	0.00	0.00
ATOM	2449	HB3	PRO	X	158	32.269	40.550	61.656	0.00	0.00
ATOM	2450	CA	PRO	X	158	32.712	41.408	63.637	0.00	0.00
ATOM	2451	HA	PRO	X	158	32.097	42.230	63.269	0.00	0.00
ATOM	2452	C	PRO	X	158	32.371	41.159	65.068	0.00	0.00
ATOM	2453	O	PRO	X	158	33.244	40.866	65.920	0.00	0.00
ATOM	2454	N	GLY	X	159	31.062	41.028	65.427	0.00	0.00
ATOM	2455	H	GLY	X	159	30.329	40.844	64.757	0.00	0.00
ATOM	2456	CA	GLY	X	159	30.517	40.988	66.781	0.00	0.00
ATOM	2457	HA2	GLY	X	159	29.542	40.603	66.665	0.00	0.00
ATOM	2458	HA3	GLY	X	159	31.131	40.305	67.448	0.00	0.00
ATOM	2459	C	GLY	X	159	30.334	42.448	67.372	0.00	0.00
ATOM	2460	O	GLY	X	159	29.939	42.527	68.553	0.00	0.00
ATOM	2461	N	SER	X	160	30.748	43.472	66.619	0.00	0.00
ATOM	2462	H	SER	X	160	31.206	43.234	65.750	0.00	0.00
ATOM	2463	CA	SER	X	160	30.745	44.878	66.912	0.00	0.00
ATOM	2464	HA	SER	X	160	29.723	45.145	67.180	0.00	0.00
ATOM	2465	CB	SER	X	160	31.676	45.224	68.066	0.00	0.00
ATOM	2466	HB2	SER	X	160	31.570	46.278	68.325	0.00	0.00
ATOM	2467	HB3	SER	X	160	31.310	44.542	68.834	0.00	0.00
ATOM	2468	OG	SER	X	160	33.084	44.873	67.792	0.00	0.00
ATOM	2469	HG	SER	X	160	33.453	44.296	68.465	0.00	0.00
ATOM	2470	C	SER	X	160	31.133	45.707	65.665	0.00	0.00
ATOM	2471	O	SER	X	160	31.409	45.092	64.640	0.00	0.00
ATOM	2472	N	ARG	X	161	31.134	47.095	65.703	0.00	0.00
ATOM	2473	H	ARG	X	161	31.145	47.519	66.620	0.00	0.00
ATOM	2474	CA	ARG	X	161	31.318	47.976	64.528	0.00	0.00
ATOM	2475	HA	ARG	X	161	31.654	47.354	63.698	0.00	0.00
ATOM	2476	CB	ARG	X	161	29.990	48.615	64.248	0.00	0.00
ATOM	2477	HB2	ARG	X	161	29.655	49.128	65.150	0.00	0.00
ATOM	2478	HB3	ARG	X	161	30.087	49.386	63.483	0.00	0.00
ATOM	2479	CG	ARG	X	161	28.897	47.581	63.842	0.00	0.00
ATOM	2480	HG2	ARG	X	161	28.932	46.843	64.643	0.00	0.00
ATOM	2481	HG3	ARG	X	161	27.873	47.952	63.788	0.00	0.00
ATOM	2482	CD	ARG	X	161	29.138	46.907	62.513	0.00	0.00
ATOM	2483	HD2	ARG	X	161	29.062	47.673	61.740	0.00	0.00
ATOM	2484	HD3	ARG	X	161	30.118	46.433	62.569	0.00	0.00
ATOM	2485	NE	ARG	X	161	28.164	45.818	62.267	0.00	0.00
ATOM	2486	HE	ARG	X	161	27.512	46.036	61.527	0.00	0.00
ATOM	2487	CZ	ARG	X	161	28.087	44.599	62.808	0.00	0.00

ATOM	2488	NH1	ARG	X	161	28.850	44.034	63.625	0.00	0.00
ATOM	2489	HH11	ARG	X	161	29.740	44.486	63.779	0.00	0.00
ATOM	2490	HH12	ARG	X	161	28.598	43.178	64.099	0.00	0.00
ATOM	2491	NH2	ARG	X	161	26.958	43.947	62.560	0.00	0.00
ATOM	2492	HH21	ARG	X	161	26.157	44.274	62.038	0.00	0.00
ATOM	2493	HH22	ARG	X	161	26.916	42.949	62.712	0.00	0.00
ATOM	2494	C	ARG	X	161	32.453	48.943	64.670	0.00	0.00
ATOM	2495	O	ARG	X	161	32.610	49.783	63.782	0.00	0.00
ATOM	2496	N	GLU	X	162	33.264	48.812	65.755	0.00	0.00
ATOM	2497	H	GLU	X	162	33.066	48.141	66.484	0.00	0.00
ATOM	2498	CA	GLU	X	162	34.545	49.501	65.838	0.00	0.00
ATOM	2499	HA	GLU	X	162	34.276	50.553	65.742	0.00	0.00
ATOM	2500	CB	GLU	X	162	35.141	49.164	67.179	0.00	0.00
ATOM	2501	HB2	GLU	X	162	35.580	48.172	67.067	0.00	0.00
ATOM	2502	HB3	GLU	X	162	35.933	49.896	67.333	0.00	0.00
ATOM	2503	CG	GLU	X	162	34.286	49.186	68.442	0.00	0.00
ATOM	2504	HG2	GLU	X	162	33.481	48.452	68.395	0.00	0.00
ATOM	2505	HG3	GLU	X	162	34.877	48.934	69.323	0.00	0.00
ATOM	2506	CD	GLU	X	162	33.624	50.583	68.817	0.00	0.00
ATOM	2507	OE1	GLU	X	162	34.335	51.390	69.434	0.00	0.00
ATOM	2508	OE2	GLU	X	162	32.493	50.865	68.434	0.00	0.00
ATOM	2509	C	GLU	X	162	35.566	49.258	64.757	0.00	0.00
ATOM	2510	O	GLU	X	162	36.249	50.258	64.446	0.00	0.00
ATOM	2511	N	ALA	X	163	35.664	48.142	64.049	0.00	0.00
ATOM	2512	H	ALA	X	163	35.126	47.373	64.421	0.00	0.00
ATOM	2513	CA	ALA	X	163	36.432	47.942	62.821	0.00	0.00
ATOM	2514	HA	ALA	X	163	36.772	48.906	62.443	0.00	0.00
ATOM	2515	CB	ALA	X	163	37.750	47.160	63.117	0.00	0.00
ATOM	2516	HB1	ALA	X	163	37.504	46.272	63.700	0.00	0.00
ATOM	2517	HB2	ALA	X	163	38.288	46.909	62.203	0.00	0.00
ATOM	2518	HB3	ALA	X	163	38.399	47.851	63.655	0.00	0.00
ATOM	2519	C	ALA	X	163	35.467	47.302	61.810	0.00	0.00
ATOM	2520	O	ALA	X	163	35.280	46.117	61.845	0.00	0.00
ATOM	2521	N	PRO	X	164	34.917	48.136	60.933	0.00	0.00
ATOM	2522	CD	PRO	X	164	34.595	49.505	61.071	0.00	0.00
ATOM	2523	HD2	PRO	X	164	35.539	50.027	60.915	0.00	0.00
ATOM	2524	HD3	PRO	X	164	34.198	49.786	62.047	0.00	0.00
ATOM	2525	CG	PRO	X	164	33.476	49.829	60.084	0.00	0.00
ATOM	2526	HG2	PRO	X	164	33.516	50.838	59.674	0.00	0.00
ATOM	2527	HG3	PRO	X	164	32.492	49.563	60.469	0.00	0.00
ATOM	2528	CB	PRO	X	164	33.873	48.915	58.885	0.00	0.00
ATOM	2529	HB2	PRO	X	164	34.720	49.365	58.367	0.00	0.00
ATOM	2530	HB3	PRO	X	164	33.011	48.756	58.238	0.00	0.00
ATOM	2531	CA	PRO	X	164	34.286	47.657	59.648	0.00	0.00
ATOM	2532	HA	PRO	X	164	33.365	47.164	59.958	0.00	0.00
ATOM	2533	C	PRO	X	164	35.228	46.745	58.912	0.00	0.00
ATOM	2534	O	PRO	X	164	34.794	45.753	58.417	0.00	0.00
ATOM	2535	N	GLY	X	165	36.482	47.134	58.723	0.00	0.00
ATOM	2536	H	GLY	X	165	36.712	48.006	59.178	0.00	0.00
ATOM	2537	CA	GLY	X	165	37.337	46.507	57.705	0.00	0.00
ATOM	2538	HA2	GLY	X	165	38.294	46.970	57.962	0.00	0.00
ATOM	2539	HA3	GLY	X	165	37.441	45.448	57.835	0.00	0.00
ATOM	2540	C	GLY	X	165	36.963	46.827	56.307	0.00	0.00
ATOM	2541	O	GLY	X	165	36.201	47.734	56.087	0.00	0.00
ATOM	2542	N	ASN	X	166	37.676	46.215	55.384	0.00	0.00
ATOM	2543	H	ASN	X	166	38.467	45.692	55.731	0.00	0.00
ATOM	2544	CA	ASN	X	166	37.431	46.240	53.858	0.00	0.00
ATOM	2545	HA	ASN	X	166	38.245	45.692	53.384	0.00	0.00
ATOM	2546	CB	ASN	X	166	36.160	45.526	53.448	0.00	0.00
ATOM	2547	HB2	ASN	X	166	35.321	46.134	53.788	0.00	0.00
ATOM	2548	HB3	ASN	X	166	36.142	45.543	52.358	0.00	0.00
ATOM	2549	CG	ASN	X	166	36.174	44.095	54.069	0.00	0.00
ATOM	2550	OD1	ASN	X	166	37.227	43.460	54.351	0.00	0.00
ATOM	2551	ND2	ASN	X	166	35.054	43.406	54.020	0.00	0.00
ATOM	2552	HD21	ASN	X	166	35.162	42.417	54.195	0.00	0.00
ATOM	2553	HD22	ASN	X	166	34.138	43.783	53.818	0.00	0.00
ATOM	2554	C	ASN	X	166	37.588	47.578	53.164	0.00	0.00
ATOM	2555	O	ASN	X	166	37.512	47.734	51.914	0.00	0.00
ATOM	2556	N	VAL	X	167	38.094	48.581	53.933	0.00	0.00
ATOM	2557	H	VAL	X	167	38.448	48.377	54.857	0.00	0.00

ATOM	2558	CA	VAL	X	167	38.313	49.984	53.427	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.326	50.322	53.112	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.688	50.970	54.590	0.00	0.00
ATOM	2561	HB	VAL	X	167	38.559	51.998	54.252	0.00	0.00
ATOM	2562	CG1	VAL	X	167	37.706	50.754	55.786	0.00	0.00
ATOM	2563	HG11	VAL	X	167	37.778	51.517	56.561	0.00	0.00
ATOM	2564	HG12	VAL	X	167	36.673	50.721	55.441	0.00	0.00
ATOM	2565	HG13	VAL	X	167	37.859	49.776	56.242	0.00	0.00
ATOM	2566	CG2	VAL	X	167	40.045	50.742	55.194	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.171	51.414	56.042	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.130	49.708	55.527	0.00	0.00
ATOM	2569	HG23	VAL	X	167	40.762	50.738	54.373	0.00	0.00
ATOM	2570	C	VAL	X	167	39.318	50.282	52.380	0.00	0.00
ATOM	2571	O	VAL	X	167	39.295	51.358	51.777	0.00	0.00
ATOM	2572	N	GLY	X	168	40.292	49.443	52.122	0.00	0.00
ATOM	2573	H	GLY	X	168	40.422	48.697	52.790	0.00	0.00
ATOM	2574	CA	GLY	X	168	41.200	49.604	50.922	0.00	0.00
ATOM	2575	HA2	GLY	X	168	41.725	50.610	50.959	0.00	0.00
ATOM	2576	HA3	GLY	X	168	41.911	48.777	50.889	0.00	0.00
ATOM	2577	C	GLY	X	168	40.405	49.488	49.619	0.00	0.00
ATOM	2578	O	GLY	X	168	40.790	50.143	48.660	0.00	0.00
ATOM	2579	N	LEU	X	169	39.323	48.744	49.532	0.00	0.00
ATOM	2580	H	LEU	X	169	39.116	48.135	50.310	0.00	0.00
ATOM	2581	CA	LEU	X	169	38.430	48.711	48.399	0.00	0.00
ATOM	2582	HA	LEU	X	169	38.967	48.757	47.452	0.00	0.00
ATOM	2583	CB	LEU	X	169	37.561	47.411	48.410	0.00	0.00
ATOM	2584	HB2	LEU	X	169	37.184	47.477	49.430	0.00	0.00
ATOM	2585	HB3	LEU	X	169	36.815	47.442	47.615	0.00	0.00
ATOM	2586	CG	LEU	X	169	38.290	46.103	48.293	0.00	0.00
ATOM	2587	HG	LEU	X	169	39.231	46.182	48.838	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.533	44.954	48.947	0.00	0.00
ATOM	2589	HD11	LEU	X	169	37.608	45.030	50.032	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.466	44.953	48.726	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.907	43.968	48.673	0.00	0.00
ATOM	2592	CD2	LEU	X	169	38.478	45.784	46.810	0.00	0.00
ATOM	2593	HD21	LEU	X	169	39.127	46.536	46.361	0.00	0.00
ATOM	2594	HD22	LEU	X	169	39.026	44.843	46.785	0.00	0.00
ATOM	2595	HD23	LEU	X	169	37.515	45.708	46.304	0.00	0.00
ATOM	2596	C	LEU	X	169	37.472	49.983	48.421	0.00	0.00
ATOM	2597	O	LEU	X	169	37.056	50.402	47.369	0.00	0.00
ATOM	2598	N	LEU	X	170	37.286	50.665	49.586	0.00	0.00
ATOM	2599	H	LEU	X	170	37.761	50.335	50.414	0.00	0.00
ATOM	2600	CA	LEU	X	170	36.393	51.843	49.697	0.00	0.00
ATOM	2601	HA	LEU	X	170	35.513	51.692	49.072	0.00	0.00
ATOM	2602	CB	LEU	X	170	35.851	51.788	51.139	0.00	0.00
ATOM	2603	HB2	LEU	X	170	36.613	52.106	51.850	0.00	0.00
ATOM	2604	HB3	LEU	X	170	35.233	52.678	51.262	0.00	0.00
ATOM	2605	CG	LEU	X	170	35.003	50.514	51.407	0.00	0.00
ATOM	2606	HG	LEU	X	170	35.622	49.617	51.377	0.00	0.00
ATOM	2607	CD1	LEU	X	170	34.343	50.712	52.845	0.00	0.00
ATOM	2608	HD11	LEU	X	170	33.645	51.548	52.892	0.00	0.00
ATOM	2609	HD12	LEU	X	170	33.858	49.800	53.189	0.00	0.00
ATOM	2610	HD13	LEU	X	170	35.139	50.871	53.573	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.848	50.374	50.443	0.00	0.00
ATOM	2612	HD21	LEU	X	170	34.143	50.120	49.425	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.174	49.564	50.720	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.372	51.348	50.329	0.00	0.00
ATOM	2615	C	LEU	X	170	37.146	53.169	49.403	0.00	0.00
ATOM	2616	O	LEU	X	170	36.564	54.161	48.926	0.00	0.00
ATOM	2617	N	ASP	X	171	38.462	53.229	49.676	0.00	0.00
ATOM	2618	H	ASP	X	171	38.856	52.460	50.199	0.00	0.00
ATOM	2619	CA	ASP	X	171	39.312	54.302	49.214	0.00	0.00
ATOM	2620	HA	ASP	X	171	39.096	55.266	49.674	0.00	0.00
ATOM	2621	CB	ASP	X	171	40.730	53.882	49.869	0.00	0.00
ATOM	2622	HB2	ASP	X	171	40.923	52.849	49.582	0.00	0.00
ATOM	2623	HB3	ASP	X	171	41.404	54.614	49.423	0.00	0.00
ATOM	2624	CG	ASP	X	171	40.911	53.981	51.375	0.00	0.00
ATOM	2625	OD1	ASP	X	171	40.141	54.682	52.028	0.00	0.00
ATOM	2626	OD2	ASP	X	171	41.911	53.462	51.862	0.00	0.00
ATOM	2627	C	ASP	X	171	39.334	54.412	47.703	0.00	0.00

ATOM	2628	O	ASP	X	171	39.148	55.464	47.152	0.00	0.00
ATOM	2629	N	GLN	X	172	39.603	53.312	47.047	0.00	0.00
ATOM	2630	H	GLN	X	172	39.861	52.496	47.583	0.00	0.00
ATOM	2631	CA	GLN	X	172	39.426	53.218	45.568	0.00	0.00
ATOM	2632	HA	GLN	X	172	40.102	53.904	45.058	0.00	0.00
ATOM	2633	CB	GLN	X	172	39.603	51.756	45.194	0.00	0.00
ATOM	2634	HB2	GLN	X	172	39.051	51.107	45.874	0.00	0.00
ATOM	2635	HB3	GLN	X	172	39.257	51.657	44.164	0.00	0.00
ATOM	2636	CG	GLN	X	172	41.022	51.263	45.214	0.00	0.00
ATOM	2637	HG2	GLN	X	172	41.596	51.701	44.398	0.00	0.00
ATOM	2638	HG3	GLN	X	172	41.508	51.587	46.134	0.00	0.00
ATOM	2639	CD	GLN	X	172	40.956	49.696	45.036	0.00	0.00
ATOM	2640	OE1	GLN	X	172	40.298	49.169	44.187	0.00	0.00
ATOM	2641	NE2	GLN	X	172	41.641	48.904	45.916	0.00	0.00
ATOM	2642	HE21	GLN	X	172	41.744	47.947	45.609	0.00	0.00
ATOM	2643	HE22	GLN	X	172	42.319	49.305	46.547	0.00	0.00
ATOM	2644	C	GLN	X	172	38.052	53.626	45.085	0.00	0.00
ATOM	2645	O	GLN	X	172	37.961	54.312	44.067	0.00	0.00
ATOM	2646	N	ARG	X	173	36.947	53.236	45.753	0.00	0.00
ATOM	2647	H	ARG	X	173	37.064	52.532	46.468	0.00	0.00
ATOM	2648	CA	ARG	X	173	35.598	53.712	45.295	0.00	0.00
ATOM	2649	HA	ARG	X	173	35.425	53.503	44.239	0.00	0.00
ATOM	2650	CB	ARG	X	173	34.527	52.907	46.041	0.00	0.00
ATOM	2651	HB2	ARG	X	173	34.803	51.862	46.176	0.00	0.00
ATOM	2652	HB3	ARG	X	173	34.491	53.222	47.084	0.00	0.00
ATOM	2653	CG	ARG	X	173	33.133	53.054	45.324	0.00	0.00
ATOM	2654	HG2	ARG	X	173	32.742	54.051	45.125	0.00	0.00
ATOM	2655	HG3	ARG	X	173	33.198	52.571	44.349	0.00	0.00
ATOM	2656	CD	ARG	X	173	31.873	52.501	46.172	0.00	0.00
ATOM	2657	HD2	ARG	X	173	31.662	53.115	47.048	0.00	0.00
ATOM	2658	HD3	ARG	X	173	31.018	52.767	45.550	0.00	0.00
ATOM	2659	NE	ARG	X	173	31.942	51.108	46.561	0.00	0.00
ATOM	2660	HE	ARG	X	173	32.230	50.490	45.816	0.00	0.00
ATOM	2661	CZ	ARG	X	173	31.405	50.577	47.648	0.00	0.00
ATOM	2662	NH1	ARG	X	173	30.858	51.267	48.648	0.00	0.00
ATOM	2663	HH11	ARG	X	173	30.758	52.270	48.712	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.462	50.775	49.436	0.00	0.00
ATOM	2665	NH2	ARG	X	173	31.353	49.301	47.756	0.00	0.00
ATOM	2666	HH21	ARG	X	173	31.712	48.668	47.056	0.00	0.00
ATOM	2667	HH22	ARG	X	173	30.822	48.910	48.521	0.00	0.00
ATOM	2668	C	ARG	X	173	35.497	55.204	45.333	0.00	0.00
ATOM	2669	O	ARG	X	173	34.972	55.837	44.398	0.00	0.00
ATOM	2670	N	LEU	X	174	35.944	55.768	46.498	0.00	0.00
ATOM	2671	H	LEU	X	174	36.410	55.250	47.229	0.00	0.00
ATOM	2672	CA	LEU	X	174	35.926	57.233	46.601	0.00	0.00
ATOM	2673	HA	LEU	X	174	34.881	57.526	46.496	0.00	0.00
ATOM	2674	CB	LEU	X	174	36.427	57.684	47.990	0.00	0.00
ATOM	2675	HB2	LEU	X	174	35.828	57.250	48.792	0.00	0.00
ATOM	2676	HB3	LEU	X	174	37.476	57.393	48.054	0.00	0.00
ATOM	2677	CG	LEU	X	174	36.406	59.189	48.278	0.00	0.00
ATOM	2678	HG	LEU	X	174	37.064	59.671	47.555	0.00	0.00
ATOM	2679	CD1	LEU	X	174	34.982	59.828	48.069	0.00	0.00
ATOM	2680	HD11	LEU	X	174	35.167	60.898	48.169	0.00	0.00
ATOM	2681	HD12	LEU	X	174	34.532	59.621	47.098	0.00	0.00
ATOM	2682	HD13	LEU	X	174	34.210	59.585	48.799	0.00	0.00
ATOM	2683	CD2	LEU	X	174	36.832	59.511	49.748	0.00	0.00
ATOM	2684	HD21	LEU	X	174	36.014	59.219	50.406	0.00	0.00
ATOM	2685	HD22	LEU	X	174	37.789	59.006	49.878	0.00	0.00
ATOM	2686	HD23	LEU	X	174	36.992	60.589	49.792	0.00	0.00
ATOM	2687	C	LEU	X	174	36.681	57.972	45.519	0.00	0.00
ATOM	2688	O	LEU	X	174	36.205	58.986	45.046	0.00	0.00
ATOM	2689	N	ALA	X	175	37.817	57.376	45.081	0.00	0.00
ATOM	2690	H	ALA	X	175	38.155	56.588	45.615	0.00	0.00
ATOM	2691	CA	ALA	X	175	38.688	57.999	44.081	0.00	0.00
ATOM	2692	HA	ALA	X	175	38.865	59.053	44.294	0.00	0.00
ATOM	2693	CB	ALA	X	175	40.111	57.427	44.059	0.00	0.00
ATOM	2694	HB1	ALA	X	175	40.260	56.482	43.536	0.00	0.00
ATOM	2695	HB2	ALA	X	175	40.656	58.055	43.356	0.00	0.00
ATOM	2696	HB3	ALA	X	175	40.530	57.355	45.063	0.00	0.00
ATOM	2697	C	ALA	X	175	38.087	57.796	42.690	0.00	0.00

ATOM	2698	O	ALA	X	175	38.102	58.756	41.893	0.00	0.00
ATOM	2699	N	LEU	X	176	37.316	56.719	42.440	0.00	0.00
ATOM	2700	H	LEU	X	176	37.375	55.937	43.076	0.00	0.00
ATOM	2701	CA	LEU	X	176	36.473	56.667	41.196	0.00	0.00
ATOM	2702	HA	LEU	X	176	37.124	56.723	40.324	0.00	0.00
ATOM	2703	CB	LEU	X	176	35.935	55.226	41.114	0.00	0.00
ATOM	2704	HB2	LEU	X	176	35.348	55.034	42.012	0.00	0.00
ATOM	2705	HB3	LEU	X	176	35.263	55.225	40.255	0.00	0.00
ATOM	2706	CG	LEU	X	176	36.914	54.141	40.787	0.00	0.00
ATOM	2707	HG	LEU	X	176	37.840	54.276	41.346	0.00	0.00
ATOM	2708	CD1	LEU	X	176	36.154	52.820	41.198	0.00	0.00
ATOM	2709	HD11	LEU	X	176	35.122	52.726	40.860	0.00	0.00
ATOM	2710	HD12	LEU	X	176	36.759	51.957	40.920	0.00	0.00
ATOM	2711	HD13	LEU	X	176	36.176	52.718	42.283	0.00	0.00
ATOM	2712	CD2	LEU	X	176	37.142	54.104	39.254	0.00	0.00
ATOM	2713	HD21	LEU	X	176	38.042	53.508	39.099	0.00	0.00
ATOM	2714	HD22	LEU	X	176	36.375	53.530	38.733	0.00	0.00
ATOM	2715	HD23	LEU	X	176	37.253	55.088	38.799	0.00	0.00
ATOM	2716	C	LEU	X	176	35.396	57.764	41.082	0.00	0.00
ATOM	2717	O	LEU	X	176	35.260	58.336	39.983	0.00	0.00
ATOM	2718	N	GLN	X	177	34.797	58.244	42.179	0.00	0.00
ATOM	2719	H	GLN	X	177	34.829	57.672	43.011	0.00	0.00
ATOM	2720	CA	GLN	X	177	33.914	59.366	42.293	0.00	0.00
ATOM	2721	HA	GLN	X	177	33.162	59.308	41.506	0.00	0.00
ATOM	2722	CB	GLN	X	177	33.123	59.524	43.643	0.00	0.00
ATOM	2723	HB2	GLN	X	177	33.719	59.842	44.499	0.00	0.00
ATOM	2724	HB3	GLN	X	177	32.421	60.324	43.409	0.00	0.00
ATOM	2725	CG	GLN	X	177	32.269	58.305	43.864	0.00	0.00
ATOM	2726	HG2	GLN	X	177	31.606	58.143	43.014	0.00	0.00
ATOM	2727	HG3	GLN	X	177	32.874	57.426	44.089	0.00	0.00
ATOM	2728	CD	GLN	X	177	31.273	58.550	45.064	0.00	0.00
ATOM	2729	OE1	GLN	X	177	31.695	58.364	46.195	0.00	0.00
ATOM	2730	NE2	GLN	X	177	30.211	59.310	44.756	0.00	0.00
ATOM	2731	HE21	GLN	X	177	29.643	59.626	45.529	0.00	0.00
ATOM	2732	HE22	GLN	X	177	30.055	59.673	43.826	0.00	0.00
ATOM	2733	C	GLN	X	177	34.710	60.733	42.081	0.00	0.00
ATOM	2734	O	GLN	X	177	34.207	61.612	41.321	0.00	0.00
ATOM	2735	N	TRP	X	178	36.047	60.848	42.331	0.00	0.00
ATOM	2736	H	TRP	X	178	36.337	60.037	42.859	0.00	0.00
ATOM	2737	CA	TRP	X	178	36.916	61.996	42.070	0.00	0.00
ATOM	2738	HA	TRP	X	178	36.392	62.931	42.269	0.00	0.00
ATOM	2739	CB	TRP	X	178	38.145	61.866	42.943	0.00	0.00
ATOM	2740	HB2	TRP	X	178	37.819	61.547	43.933	0.00	0.00
ATOM	2741	HB3	TRP	X	178	38.744	61.013	42.623	0.00	0.00
ATOM	2742	CG	TRP	X	178	39.005	63.125	43.061	0.00	0.00
ATOM	2743	CD1	TRP	X	178	39.103	63.972	44.077	0.00	0.00
ATOM	2744	HD1	TRP	X	178	38.615	63.859	45.033	0.00	0.00
ATOM	2745	NE1	TRP	X	178	40.038	64.927	43.804	0.00	0.00
ATOM	2746	HE1	TRP	X	178	40.324	65.616	44.486	0.00	0.00
ATOM	2747	CE2	TRP	X	178	40.681	64.735	42.578	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	41.625	65.437	41.771	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	42.120	66.293	42.204	0.00	0.00
ATOM	2750	CH2	TRP	X	178	41.965	64.964	40.498	0.00	0.00
ATOM	2751	HH2	TRP	X	178	42.786	65.402	39.950	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	41.263	63.847	39.972	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	41.468	63.535	38.959	0.00	0.00
ATOM	2754	CE3	TRP	X	178	40.318	63.180	40.763	0.00	0.00
ATOM	2755	HE3	TRP	X	178	39.857	62.259	40.438	0.00	0.00
ATOM	2756	CD2	TRP	X	178	39.918	63.634	42.038	0.00	0.00
ATOM	2757	C	TRP	X	178	37.315	62.084	40.576	0.00	0.00
ATOM	2758	O	TRP	X	178	37.304	63.125	39.927	0.00	0.00
ATOM	2759	N	VAL	X	179	37.437	60.868	39.985	0.00	0.00
ATOM	2760	H	VAL	X	179	37.481	60.087	40.624	0.00	0.00
ATOM	2761	CA	VAL	X	179	37.611	60.716	38.574	0.00	0.00
ATOM	2762	HA	VAL	X	179	38.361	61.459	38.304	0.00	0.00
ATOM	2763	CB	VAL	X	179	38.181	59.309	38.270	0.00	0.00
ATOM	2764	HB	VAL	X	179	37.779	58.559	38.951	0.00	0.00
ATOM	2765	CG1	VAL	X	179	37.997	58.691	36.830	0.00	0.00
ATOM	2766	HG11	VAL	X	179	37.060	58.147	36.713	0.00	0.00
ATOM	2767	HG12	VAL	X	179	38.016	59.517	36.118	0.00	0.00

ATOM	2768	HG13	VAL	X	179	38.825	58.050	36.527	0.00	0.00
ATOM	2769	CG2	VAL	X	179	39.716	59.455	38.543	0.00	0.00
ATOM	2770	HG21	VAL	X	179	40.145	58.477	38.328	0.00	0.00
ATOM	2771	HG22	VAL	X	179	40.068	60.291	37.938	0.00	0.00
ATOM	2772	HG23	VAL	X	179	39.780	59.784	39.580	0.00	0.00
ATOM	2773	C	VAL	X	179	36.355	61.084	37.739	0.00	0.00
ATOM	2774	O	VAL	X	179	36.418	61.874	36.840	0.00	0.00
ATOM	2775	N	GLN	X	180	35.184	60.697	38.155	0.00	0.00
ATOM	2776	H	GLN	X	180	35.161	60.134	38.993	0.00	0.00
ATOM	2777	CA	GLN	X	180	33.932	61.079	37.559	0.00	0.00
ATOM	2778	HA	GLN	X	180	33.927	60.818	36.501	0.00	0.00
ATOM	2779	CB	GLN	X	180	32.891	60.292	38.284	0.00	0.00
ATOM	2780	HB2	GLN	X	180	33.081	60.361	39.355	0.00	0.00
ATOM	2781	HB3	GLN	X	180	31.931	60.782	38.120	0.00	0.00
ATOM	2782	CG	GLN	X	180	32.734	58.906	37.744	0.00	0.00
ATOM	2783	HG2	GLN	X	180	33.719	58.442	37.682	0.00	0.00
ATOM	2784	HG3	GLN	X	180	32.136	58.342	38.460	0.00	0.00
ATOM	2785	CD	GLN	X	180	32.020	58.804	36.392	0.00	0.00
ATOM	2786	OE1	GLN	X	180	31.358	59.669	35.903	0.00	0.00
ATOM	2787	NE2	GLN	X	180	32.190	57.695	35.652	0.00	0.00
ATOM	2788	HE21	GLN	X	180	31.763	57.806	34.743	0.00	0.00
ATOM	2789	HE22	GLN	X	180	32.709	56.904	36.006	0.00	0.00
ATOM	2790	C	GLN	X	180	33.750	62.632	37.640	0.00	0.00
ATOM	2791	O	GLN	X	180	33.140	63.190	36.679	0.00	0.00
ATOM	2792	N	GLU	X	181	34.175	63.192	38.805	0.00	0.00
ATOM	2793	H	GLU	X	181	34.721	62.722	39.513	0.00	0.00
ATOM	2794	CA	GLU	X	181	33.977	64.656	39.010	0.00	0.00
ATOM	2795	HA	GLU	X	181	32.944	64.844	38.718	0.00	0.00
ATOM	2796	CB	GLU	X	181	34.289	64.903	40.526	0.00	0.00
ATOM	2797	HB2	GLU	X	181	33.783	64.150	41.129	0.00	0.00
ATOM	2798	HB3	GLU	X	181	35.339	64.908	40.821	0.00	0.00
ATOM	2799	CG	GLU	X	181	33.813	66.295	40.975	0.00	0.00
ATOM	2800	HG2	GLU	X	181	34.395	66.528	41.867	0.00	0.00
ATOM	2801	HG3	GLU	X	181	33.997	67.077	40.239	0.00	0.00
ATOM	2802	CD	GLU	X	181	32.275	66.273	41.419	0.00	0.00
ATOM	2803	OE1	GLU	X	181	31.761	65.232	41.955	0.00	0.00
ATOM	2804	OE2	GLU	X	181	31.660	67.355	41.344	0.00	0.00
ATOM	2805	C	GLU	X	181	34.951	65.509	38.119	0.00	0.00
ATOM	2806	O	GLU	X	181	34.475	66.496	37.600	0.00	0.00
ATOM	2807	N	ASN	X	182	36.254	65.024	38.054	0.00	0.00
ATOM	2808	H	ASN	X	182	36.635	64.208	38.511	0.00	0.00
ATOM	2809	CA	ASN	X	182	37.316	65.766	37.401	0.00	0.00
ATOM	2810	HA	ASN	X	182	36.893	66.714	37.069	0.00	0.00
ATOM	2811	CB	ASN	X	182	38.351	66.149	38.539	0.00	0.00
ATOM	2812	HB2	ASN	X	182	38.690	65.206	38.968	0.00	0.00
ATOM	2813	HB3	ASN	X	182	39.206	66.760	38.252	0.00	0.00
ATOM	2814	CG	ASN	X	182	37.779	66.996	39.691	0.00	0.00
ATOM	2815	OD1	ASN	X	182	37.250	68.095	39.482	0.00	0.00
ATOM	2816	ND2	ASN	X	182	37.919	66.567	40.900	0.00	0.00
ATOM	2817	HD21	ASN	X	182	37.640	67.206	41.630	0.00	0.00
ATOM	2818	HD22	ASN	X	182	38.298	65.659	41.130	0.00	0.00
ATOM	2819	C	ASN	X	182	38.109	65.262	36.263	0.00	0.00
ATOM	2820	O	ASN	X	182	38.903	66.057	35.811	0.00	0.00
ATOM	2821	N	VAL	X	183	37.968	64.005	35.792	0.00	0.00
ATOM	2822	H	VAL	X	183	37.378	63.419	36.364	0.00	0.00
ATOM	2823	CA	VAL	X	183	38.801	63.575	34.650	0.00	0.00
ATOM	2824	HA	VAL	X	183	39.817	63.894	34.881	0.00	0.00
ATOM	2825	CB	VAL	X	183	38.804	62.052	34.408	0.00	0.00
ATOM	2826	HB	VAL	X	183	38.856	61.445	35.313	0.00	0.00
ATOM	2827	CG1	VAL	X	183	37.439	61.628	33.773	0.00	0.00
ATOM	2828	HG11	VAL	X	183	37.218	60.561	33.801	0.00	0.00
ATOM	2829	HG12	VAL	X	183	36.657	62.261	34.193	0.00	0.00
ATOM	2830	HG13	VAL	X	183	37.580	61.851	32.716	0.00	0.00
ATOM	2831	CG2	VAL	X	183	40.028	61.676	33.497	0.00	0.00
ATOM	2832	HG21	VAL	X	183	39.985	60.606	33.295	0.00	0.00
ATOM	2833	HG22	VAL	X	183	40.064	62.138	32.511	0.00	0.00
ATOM	2834	HG23	VAL	X	183	40.943	62.084	33.926	0.00	0.00
ATOM	2835	C	VAL	X	183	38.551	64.409	33.414	0.00	0.00
ATOM	2836	O	VAL	X	183	39.535	64.700	32.742	0.00	0.00
ATOM	2837	N	ALA	X	184	37.413	65.001	33.236	0.00	0.00

ATOM	2838	H	ALA	X	184	36.652	64.748	33.850	0.00	0.00
ATOM	2839	CA	ALA	X	184	37.065	65.949	32.147	0.00	0.00
ATOM	2840	HA	ALA	X	184	37.538	65.499	31.274	0.00	0.00
ATOM	2841	CB	ALA	X	184	35.578	65.953	31.919	0.00	0.00
ATOM	2842	HB1	ALA	X	184	35.451	66.473	30.969	0.00	0.00
ATOM	2843	HB2	ALA	X	184	35.267	64.930	31.708	0.00	0.00
ATOM	2844	HB3	ALA	X	184	35.061	66.269	32.825	0.00	0.00
ATOM	2845	C	ALA	X	184	37.725	67.330	32.305	0.00	0.00
ATOM	2846	O	ALA	X	184	37.707	67.998	31.233	0.00	0.00
ATOM	2847	N	ALA	X	185	38.352	67.728	33.427	0.00	0.00
ATOM	2848	H	ALA	X	185	38.381	67.144	34.251	0.00	0.00
ATOM	2849	CA	ALA	X	185	39.277	68.793	33.472	0.00	0.00
ATOM	2850	HA	ALA	X	185	38.726	69.640	33.063	0.00	0.00
ATOM	2851	CB	ALA	X	185	39.539	69.111	34.930	0.00	0.00
ATOM	2852	HB1	ALA	X	185	38.532	69.141	35.344	0.00	0.00
ATOM	2853	HB2	ALA	X	185	40.106	68.335	35.445	0.00	0.00
ATOM	2854	HB3	ALA	X	185	39.937	70.115	35.074	0.00	0.00
ATOM	2855	C	ALA	X	185	40.546	68.468	32.738	0.00	0.00
ATOM	2856	O	ALA	X	185	41.075	69.242	31.943	0.00	0.00
ATOM	2857	N	PHE	X	186	40.966	67.203	32.951	0.00	0.00
ATOM	2858	H	PHE	X	186	40.452	66.559	33.536	0.00	0.00
ATOM	2859	CA	PHE	X	186	42.206	66.684	32.334	0.00	0.00
ATOM	2860	HA	PHE	X	186	42.860	67.556	32.346	0.00	0.00
ATOM	2861	CB	PHE	X	186	42.815	65.599	33.320	0.00	0.00
ATOM	2862	HB2	PHE	X	186	42.202	64.699	33.284	0.00	0.00
ATOM	2863	HB3	PHE	X	186	43.799	65.261	32.996	0.00	0.00
ATOM	2864	CG	PHE	X	186	42.981	66.128	34.725	0.00	0.00
ATOM	2865	CD1	PHE	X	186	42.077	65.702	35.746	0.00	0.00
ATOM	2866	HD1	PHE	X	186	41.263	64.998	35.655	0.00	0.00
ATOM	2867	CE1	PHE	X	186	42.401	66.201	36.994	0.00	0.00
ATOM	2868	HE1	PHE	X	186	41.820	65.891	37.850	0.00	0.00
ATOM	2869	CZ	PHE	X	186	43.340	67.288	37.221	0.00	0.00
ATOM	2870	HZ	PHE	X	186	43.411	67.692	38.220	0.00	0.00
ATOM	2871	CE2	PHE	X	186	44.278	67.628	36.256	0.00	0.00
ATOM	2872	HE2	PHE	X	186	45.039	68.389	36.348	0.00	0.00
ATOM	2873	CD2	PHE	X	186	44.052	67.000	34.997	0.00	0.00
ATOM	2874	HD2	PHE	X	186	44.660	67.266	34.145	0.00	0.00
ATOM	2875	C	PHE	X	186	42.040	66.237	30.924	0.00	0.00
ATOM	2876	O	PHE	X	186	43.008	65.786	30.339	0.00	0.00
ATOM	2877	N	GLY	X	187	40.819	66.315	30.357	0.00	0.00
ATOM	2878	H	GLY	X	187	40.081	66.755	30.888	0.00	0.00
ATOM	2879	CA	GLY	X	187	40.513	65.949	28.944	0.00	0.00
ATOM	2880	HA2	GLY	X	187	39.685	66.617	28.644	0.00	0.00
ATOM	2881	HA3	GLY	X	187	41.380	66.264	28.415	0.00	0.00
ATOM	2882	C	GLY	X	187	40.156	64.539	28.573	0.00	0.00
ATOM	2883	O	GLY	X	187	40.007	64.191	27.364	0.00	0.00
ATOM	2884	N	GLY	X	188	39.953	63.669	29.565	0.00	0.00
ATOM	2885	H	GLY	X	188	40.014	64.103	30.475	0.00	0.00
ATOM	2886	CA	GLY	X	188	39.435	62.341	29.518	0.00	0.00
ATOM	2887	HA2	GLY	X	188	39.755	61.848	28.573	0.00	0.00
ATOM	2888	HA3	GLY	X	188	39.863	61.759	30.331	0.00	0.00
ATOM	2889	C	GLY	X	188	37.917	62.343	29.443	0.00	0.00
ATOM	2890	O	GLY	X	188	37.266	63.396	29.188	0.00	0.00
ATOM	2891	N	ASP	X	189	37.348	61.122	29.384	0.00	0.00
ATOM	2892	H	ASP	X	189	38.003	60.356	29.444	0.00	0.00
ATOM	2893	CA	ASP	X	189	35.917	60.876	29.076	0.00	0.00
ATOM	2894	HA	ASP	X	189	35.349	61.789	28.902	0.00	0.00
ATOM	2895	CB	ASP	X	189	35.763	60.179	27.764	0.00	0.00
ATOM	2896	HB2	ASP	X	189	36.018	60.904	26.991	0.00	0.00
ATOM	2897	HB3	ASP	X	189	36.468	59.354	27.668	0.00	0.00
ATOM	2898	CG	ASP	X	189	34.315	59.666	27.258	0.00	0.00
ATOM	2899	OD1	ASP	X	189	34.232	59.052	26.203	0.00	0.00
ATOM	2900	OD2	ASP	X	189	33.245	59.971	27.867	0.00	0.00
ATOM	2901	C	ASP	X	189	35.174	60.029	30.259	0.00	0.00
ATOM	2902	O	ASP	X	189	35.302	58.827	30.407	0.00	0.00
ATOM	2903	N	PRO	X	190	34.165	60.658	30.948	0.00	0.00
ATOM	2904	CD	PRO	X	190	33.823	62.070	30.816	0.00	0.00
ATOM	2905	HD2	PRO	X	190	33.352	62.289	29.858	0.00	0.00
ATOM	2906	HD3	PRO	X	190	34.696	62.702	30.981	0.00	0.00
ATOM	2907	CG	PRO	X	190	32.744	62.322	31.883	0.00	0.00

ATOM	2908	HG2	PRO	X	190	31.777	62.324	31.380	0.00	0.00
ATOM	2909	HG3	PRO	X	190	32.999	63.276	32.345	0.00	0.00
ATOM	2910	CB	PRO	X	190	32.771	61.111	32.875	0.00	0.00
ATOM	2911	HB2	PRO	X	190	31.761	60.816	33.158	0.00	0.00
ATOM	2912	HB3	PRO	X	190	33.404	61.363	33.725	0.00	0.00
ATOM	2913	CA	PRO	X	190	33.427	59.991	31.998	0.00	0.00
ATOM	2914	HA	PRO	X	190	34.165	59.473	32.611	0.00	0.00
ATOM	2915	C	PRO	X	190	32.461	58.900	31.694	0.00	0.00
ATOM	2916	O	PRO	X	190	31.926	58.296	32.651	0.00	0.00
ATOM	2917	N	THR	X	191	32.114	58.645	30.381	0.00	0.00
ATOM	2918	H	THR	X	191	32.511	59.240	29.668	0.00	0.00
ATOM	2919	CA	THR	X	191	31.375	57.514	29.920	0.00	0.00
ATOM	2920	HA	THR	X	191	30.759	57.156	30.744	0.00	0.00
ATOM	2921	CB	THR	X	191	30.495	57.912	28.765	0.00	0.00
ATOM	2922	HB	THR	X	191	29.926	57.019	28.506	0.00	0.00
ATOM	2923	CG2	THR	X	191	29.675	59.130	28.955	0.00	0.00
ATOM	2924	HG21	THR	X	191	29.090	59.304	28.052	0.00	0.00
ATOM	2925	HG22	THR	X	191	28.952	59.103	29.770	0.00	0.00
ATOM	2926	HG23	THR	X	191	30.214	60.073	29.051	0.00	0.00
ATOM	2927	OG1	THR	X	191	31.342	57.974	27.598	0.00	0.00
ATOM	2928	HG1	THR	X	191	32.035	58.620	27.754	0.00	0.00
ATOM	2929	C	THR	X	191	32.289	56.274	29.531	0.00	0.00
ATOM	2930	O	THR	X	191	31.888	55.230	28.987	0.00	0.00
ATOM	2931	N	SER	X	192	33.610	56.496	29.710	0.00	0.00
ATOM	2932	H	SER	X	192	33.828	57.425	30.042	0.00	0.00
ATOM	2933	CA	SER	X	192	34.621	55.580	29.265	0.00	0.00
ATOM	2934	HA	SER	X	192	34.206	54.579	29.151	0.00	0.00
ATOM	2935	CB	SER	X	192	35.258	56.074	27.942	0.00	0.00
ATOM	2936	HB2	SER	X	192	35.680	57.048	28.185	0.00	0.00
ATOM	2937	HB3	SER	X	192	36.106	55.394	27.866	0.00	0.00
ATOM	2938	OG	SER	X	192	34.453	55.984	26.807	0.00	0.00
ATOM	2939	HG	SER	X	192	34.786	56.613	26.163	0.00	0.00
ATOM	2940	C	SER	X	192	35.749	55.452	30.351	0.00	0.00
ATOM	2941	O	SER	X	192	36.945	55.526	30.086	0.00	0.00
ATOM	2942	N	VAL	X	193	35.390	55.327	31.618	0.00	0.00
ATOM	2943	H	VAL	X	193	34.401	55.359	31.820	0.00	0.00
ATOM	2944	CA	VAL	X	193	36.274	54.920	32.719	0.00	0.00
ATOM	2945	HA	VAL	X	193	37.184	55.457	32.454	0.00	0.00
ATOM	2946	CB	VAL	X	193	35.748	55.349	34.098	0.00	0.00
ATOM	2947	HB	VAL	X	193	34.947	54.618	34.208	0.00	0.00
ATOM	2948	CG1	VAL	X	193	36.936	55.243	35.149	0.00	0.00
ATOM	2949	HG11	VAL	X	193	36.671	55.391	36.196	0.00	0.00
ATOM	2950	HG12	VAL	X	193	37.429	54.284	34.993	0.00	0.00
ATOM	2951	HG13	VAL	X	193	37.705	55.924	34.784	0.00	0.00
ATOM	2952	CG2	VAL	X	193	35.258	56.823	34.138	0.00	0.00
ATOM	2953	HG21	VAL	X	193	34.488	56.984	33.384	0.00	0.00
ATOM	2954	HG22	VAL	X	193	35.062	57.014	35.193	0.00	0.00
ATOM	2955	HG23	VAL	X	193	36.007	57.552	33.827	0.00	0.00
ATOM	2956	C	VAL	X	193	36.459	53.370	32.527	0.00	0.00
ATOM	2957	O	VAL	X	193	35.466	52.668	32.469	0.00	0.00
ATOM	2958	N	THR	X	194	37.710	52.939	32.615	0.00	0.00
ATOM	2959	H	THR	X	194	38.454	53.612	32.727	0.00	0.00
ATOM	2960	CA	THR	X	194	38.151	51.508	32.575	0.00	0.00
ATOM	2961	HA	THR	X	194	37.204	50.974	32.504	0.00	0.00
ATOM	2962	CB	THR	X	194	38.984	51.056	31.379	0.00	0.00
ATOM	2963	HB	THR	X	194	39.964	51.528	31.443	0.00	0.00
ATOM	2964	CG2	THR	X	194	39.190	49.507	31.324	0.00	0.00
ATOM	2965	HG21	THR	X	194	39.753	49.327	30.408	0.00	0.00
ATOM	2966	HG22	THR	X	194	39.697	48.975	32.129	0.00	0.00
ATOM	2967	HG23	THR	X	194	38.231	48.990	31.284	0.00	0.00
ATOM	2968	OG1	THR	X	194	38.244	51.445	30.235	0.00	0.00
ATOM	2969	HG1	THR	X	194	38.078	52.386	30.322	0.00	0.00
ATOM	2970	C	THR	X	194	38.872	51.074	33.851	0.00	0.00
ATOM	2971	O	THR	X	194	39.885	51.655	34.089	0.00	0.00
ATOM	2972	N	LEU	X	195	38.468	50.048	34.595	0.00	0.00
ATOM	2973	H	LEU	X	195	37.720	49.448	34.279	0.00	0.00
ATOM	2974	CA	LEU	X	195	39.343	49.562	35.688	0.00	0.00
ATOM	2975	HA	LEU	X	195	39.887	50.377	36.164	0.00	0.00
ATOM	2976	CB	LEU	X	195	38.516	48.812	36.674	0.00	0.00
ATOM	2977	HB2	LEU	X	195	38.148	47.905	36.196	0.00	0.00

ATOM	2978	HB3	LEU	X	195	39.203	48.460	37.443	0.00	0.00
ATOM	2979	CG	LEU	X	195	37.303	49.496	37.267	0.00	0.00
ATOM	2980	HG	LEU	X	195	36.576	49.712	36.485	0.00	0.00
ATOM	2981	CD1	LEU	X	195	36.660	48.464	38.220	0.00	0.00
ATOM	2982	HD11	LEU	X	195	37.377	48.076	38.944	0.00	0.00
ATOM	2983	HD12	LEU	X	195	35.740	48.845	38.663	0.00	0.00
ATOM	2984	HD13	LEU	X	195	36.465	47.559	37.645	0.00	0.00
ATOM	2985	CD2	LEU	X	195	37.612	50.826	38.055	0.00	0.00
ATOM	2986	HD21	LEU	X	195	37.984	51.554	37.334	0.00	0.00
ATOM	2987	HD22	LEU	X	195	36.730	51.183	38.587	0.00	0.00
ATOM	2988	HD23	LEU	X	195	38.338	50.609	38.837	0.00	0.00
ATOM	2989	C	LEU	X	195	40.440	48.556	35.105	0.00	0.00
ATOM	2990	O	LEU	X	195	40.058	47.660	34.314	0.00	0.00
ATOM	2991	N	PHE	X	196	41.761	48.713	35.270	0.00	0.00
ATOM	2992	H	PHE	X	196	42.060	49.484	35.850	0.00	0.00
ATOM	2993	CA	PHE	X	196	42.709	47.601	35.123	0.00	0.00
ATOM	2994	HA	PHE	X	196	42.140	46.672	35.094	0.00	0.00
ATOM	2995	CB	PHE	X	196	43.470	47.542	33.747	0.00	0.00
ATOM	2996	HB2	PHE	X	196	43.981	46.581	33.807	0.00	0.00
ATOM	2997	HB3	PHE	X	196	42.775	47.421	32.916	0.00	0.00
ATOM	2998	CG	PHE	X	196	44.583	48.580	33.430	0.00	0.00
ATOM	2999	CD1	PHE	X	196	44.491	49.912	33.835	0.00	0.00
ATOM	3000	HD1	PHE	X	196	43.686	50.322	34.428	0.00	0.00
ATOM	3001	CE1	PHE	X	196	45.525	50.844	33.499	0.00	0.00
ATOM	3002	HE1	PHE	X	196	45.343	51.879	33.751	0.00	0.00
ATOM	3003	CZ	PHE	X	196	46.677	50.450	32.849	0.00	0.00
ATOM	3004	HZ	PHE	X	196	47.426	51.139	32.487	0.00	0.00
ATOM	3005	CE2	PHE	X	196	46.803	49.076	32.430	0.00	0.00
ATOM	3006	HE2	PHE	X	196	47.635	48.664	31.879	0.00	0.00
ATOM	3007	CD2	PHE	X	196	45.746	48.157	32.762	0.00	0.00
ATOM	3008	HD2	PHE	X	196	45.836	47.152	32.376	0.00	0.00
ATOM	3009	C	PHE	X	196	43.621	47.561	36.305	0.00	0.00
ATOM	3010	O	PHE	X	196	43.499	48.408	37.210	0.00	0.00
ATOM	3011	N	GLY	X	197	44.396	46.559	36.434	0.00	0.00
ATOM	3012	H	GLY	X	197	44.383	45.800	35.768	0.00	0.00
ATOM	3013	CA	GLY	X	197	45.219	46.257	37.562	0.00	0.00
ATOM	3014	HA2	GLY	X	197	46.052	46.997	37.614	0.00	0.00
ATOM	3015	HA3	GLY	X	197	44.614	46.312	38.439	0.00	0.00
ATOM	3016	C	GLY	X	197	45.810	44.871	37.527	0.00	0.00
ATOM	3017	O	GLY	X	197	45.305	44.134	36.661	0.00	0.00
ATOM	3018	N	GLU	X	198	46.763	44.496	38.424	0.00	0.00
ATOM	3019	H	GLU	X	198	47.114	45.239	39.011	0.00	0.00
ATOM	3020	CA	GLU	X	198	47.395	43.199	38.428	0.00	0.00
ATOM	3021	HA	GLU	X	198	46.838	42.506	37.798	0.00	0.00
ATOM	3022	CB	GLU	X	198	48.769	43.345	37.842	0.00	0.00
ATOM	3023	HB2	GLU	X	198	48.658	43.870	36.893	0.00	0.00
ATOM	3024	HB3	GLU	X	198	49.405	44.031	38.400	0.00	0.00
ATOM	3025	CG	GLU	X	198	49.531	41.960	37.626	0.00	0.00
ATOM	3026	HG2	GLU	X	198	48.975	41.159	38.113	0.00	0.00
ATOM	3027	HG3	GLU	X	198	49.749	41.890	36.560	0.00	0.00
ATOM	3028	CD	GLU	X	198	50.859	41.976	38.386	0.00	0.00
ATOM	3029	OE1	GLU	X	198	51.721	42.803	37.986	0.00	0.00
ATOM	3030	OE2	GLU	X	198	50.969	41.146	39.291	0.00	0.00
ATOM	3031	C	GLU	X	198	47.505	42.622	39.873	0.00	0.00
ATOM	3032	O	GLU	X	198	47.697	43.233	40.868	0.00	0.00
ATOM	3033	N	XA1	X	199	47.276	41.292	39.935	0.00	0.00
ATOM	3034	CA	XA1	X	199	47.376	40.520	41.241	0.00	0.00
ATOM	3035	C	XA1	X	199	46.319	40.982	42.276	0.00	0.00
ATOM	3036	O	XA1	X	199	45.075	40.797	42.061	0.00	0.00
ATOM	3037	CB	XA1	X	199	48.837	40.375	41.705	0.00	0.00
ATOM	3038	OG	XA1	X	199	48.941	39.407	42.771	0.00	0.00
ATOM	3039	P1	XA1	X	199	49.898	39.868	43.884	0.00	0.00
ATOM	3040	O1	XA1	X	199	49.360	41.102	44.548	0.00	0.00
ATOM	3041	O2	XA1	X	199	51.215	40.070	43.301	0.00	0.00
ATOM	3042	C1	XA1	X	199	49.916	38.408	44.901	0.00	0.00
ATOM	3043	H	XA1	X	199	46.930	40.775	39.139	0.00	0.00
ATOM	3044	HA	XA1	X	199	47.035	39.509	41.020	0.00	0.00
ATOM	3045	HB2	XA1	X	199	49.531	40.179	40.883	0.00	0.00
ATOM	3046	HB3	XA1	X	199	49.044	41.368	42.110	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.894	38.064	45.071	0.00	0.00

ATOM	3048	H12	XA1	X	199	50.447	37.586	44.417	0.00	0.00
ATOM	3049	H13	XA1	X	199	50.509	38.572	45.803	0.00	0.00
ATOM	3050	N	ALA	X	200	46.676	41.504	43.479	0.00	0.00
ATOM	3051	H	ALA	X	200	47.676	41.620	43.551	0.00	0.00
ATOM	3052	CA	ALA	X	200	45.707	42.057	44.392	0.00	0.00
ATOM	3053	HA	ALA	X	200	44.946	41.331	44.677	0.00	0.00
ATOM	3054	CB	ALA	X	200	46.363	42.331	45.774	0.00	0.00
ATOM	3055	HB1	ALA	X	200	46.960	41.482	46.105	0.00	0.00
ATOM	3056	HB2	ALA	X	200	47.089	43.143	45.776	0.00	0.00
ATOM	3057	HB3	ALA	X	200	45.630	42.589	46.539	0.00	0.00
ATOM	3058	C	ALA	X	200	44.944	43.300	43.746	0.00	0.00
ATOM	3059	O	ALA	X	200	43.777	43.659	44.141	0.00	0.00
ATOM	3060	N	GLY	X	201	45.502	43.916	42.693	0.00	0.00
ATOM	3061	H	GLY	X	201	46.453	43.631	42.510	0.00	0.00
ATOM	3062	CA	GLY	X	201	44.834	44.836	41.872	0.00	0.00
ATOM	3063	HA2	GLY	X	201	44.281	45.505	42.492	0.00	0.00
ATOM	3064	HA3	GLY	X	201	45.546	45.470	41.290	0.00	0.00
ATOM	3065	C	GLY	X	201	43.893	44.124	40.906	0.00	0.00
ATOM	3066	O	GLY	X	201	42.715	44.494	40.880	0.00	0.00
ATOM	3067	N	ALA	X	202	44.251	43.037	40.236	0.00	0.00
ATOM	3068	H	ALA	X	202	45.215	42.778	40.078	0.00	0.00
ATOM	3069	CA	ALA	X	202	43.229	42.350	39.412	0.00	0.00
ATOM	3070	HA	ALA	X	202	42.810	42.992	38.637	0.00	0.00
ATOM	3071	CB	ALA	X	202	43.999	41.265	38.694	0.00	0.00
ATOM	3072	HB1	ALA	X	202	44.380	40.649	39.508	0.00	0.00
ATOM	3073	HB2	ALA	X	202	43.299	40.671	38.107	0.00	0.00
ATOM	3074	HB3	ALA	X	202	44.663	41.754	37.981	0.00	0.00
ATOM	3075	C	ALA	X	202	42.081	41.909	40.314	0.00	0.00
ATOM	3076	O	ALA	X	202	40.932	42.088	39.986	0.00	0.00
ATOM	3077	N	ALA	X	203	42.398	41.413	41.515	0.00	0.00
ATOM	3078	H	ALA	X	203	43.332	41.056	41.652	0.00	0.00
ATOM	3079	CA	ALA	X	203	41.444	40.904	42.552	0.00	0.00
ATOM	3080	HA	ALA	X	203	40.877	40.085	42.110	0.00	0.00
ATOM	3081	CB	ALA	X	203	42.244	40.422	43.767	0.00	0.00
ATOM	3082	HB1	ALA	X	203	42.705	41.174	44.407	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.512	39.883	44.369	0.00	0.00
ATOM	3084	HB3	ALA	X	203	42.986	39.666	43.510	0.00	0.00
ATOM	3085	C	ALA	X	203	40.491	42.010	42.967	0.00	0.00
ATOM	3086	O	ALA	X	203	39.295	41.826	42.995	0.00	0.00
ATOM	3087	N	SER	X	204	41.053	43.255	43.162	0.00	0.00
ATOM	3088	H	SER	X	204	42.051	43.331	43.030	0.00	0.00
ATOM	3089	CA	SER	X	204	40.259	44.495	43.400	0.00	0.00
ATOM	3090	HA	SER	X	204	39.583	44.349	44.243	0.00	0.00
ATOM	3091	CB	SER	X	204	41.132	45.678	43.920	0.00	0.00
ATOM	3092	HB2	SER	X	204	41.783	45.922	43.081	0.00	0.00
ATOM	3093	HB3	SER	X	204	40.411	46.490	44.016	0.00	0.00
ATOM	3094	OG	SER	X	204	42.001	45.443	45.058	0.00	0.00
ATOM	3095	HG	SER	X	204	42.582	44.710	44.840	0.00	0.00
ATOM	3096	C	SER	X	204	39.376	44.911	42.257	0.00	0.00
ATOM	3097	O	SER	X	204	38.129	44.937	42.478	0.00	0.00
ATOM	3098	N	VAL	X	205	39.888	44.920	41.000	0.00	0.00
ATOM	3099	H	VAL	X	205	40.725	44.370	40.873	0.00	0.00
ATOM	3100	CA	VAL	X	205	38.915	45.113	39.894	0.00	0.00
ATOM	3101	HA	VAL	X	205	38.536	46.135	39.870	0.00	0.00
ATOM	3102	CB	VAL	X	205	39.662	45.174	38.587	0.00	0.00
ATOM	3103	HB	VAL	X	205	40.229	44.263	38.396	0.00	0.00
ATOM	3104	CG1	VAL	X	205	38.711	45.294	37.370	0.00	0.00
ATOM	3105	HG11	VAL	X	205	38.055	44.424	37.331	0.00	0.00
ATOM	3106	HG12	VAL	X	205	38.083	46.161	37.572	0.00	0.00
ATOM	3107	HG13	VAL	X	205	39.320	45.406	36.473	0.00	0.00
ATOM	3108	CG2	VAL	X	205	40.619	46.384	38.503	0.00	0.00
ATOM	3109	HG21	VAL	X	205	40.903	46.494	37.456	0.00	0.00
ATOM	3110	HG22	VAL	X	205	40.179	47.257	38.986	0.00	0.00
ATOM	3111	HG23	VAL	X	205	41.481	46.057	39.086	0.00	0.00
ATOM	3112	C	VAL	X	205	37.723	44.191	39.933	0.00	0.00
ATOM	3113	O	VAL	X	205	36.571	44.587	39.684	0.00	0.00
ATOM	3114	N	GLY	X	206	37.959	42.933	40.258	0.00	0.00
ATOM	3115	H	GLY	X	206	38.877	42.747	40.637	0.00	0.00
ATOM	3116	CA	GLY	X	206	36.982	41.861	40.301	0.00	0.00
ATOM	3117	HA2	GLY	X	206	36.491	41.701	39.344	0.00	0.00

ATOM	3118	HA3	GLY	X	206	37.596	41.006	40.548	0.00	0.00
ATOM	3119	C	GLY	X	206	35.972	41.951	41.438	0.00	0.00
ATOM	3120	O	GLY	X	206	34.839	41.423	41.343	0.00	0.00
ATOM	3121	N	MET	X	207	36.328	42.663	42.530	0.00	0.00
ATOM	3122	H	MET	X	207	37.202	43.156	42.414	0.00	0.00
ATOM	3123	CA	MET	X	207	35.477	42.875	43.677	0.00	0.00
ATOM	3124	HA	MET	X	207	34.898	41.952	43.648	0.00	0.00
ATOM	3125	CB	MET	X	207	36.221	43.101	44.971	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.779	44.038	44.992	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.524	43.156	45.807	0.00	0.00
ATOM	3128	CG	MET	X	207	37.111	41.958	45.244	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.787	41.067	44.707	0.00	0.00
ATOM	3130	HG3	MET	X	207	38.120	42.212	44.919	0.00	0.00
ATOM	3131	SD	MET	X	207	37.246	41.639	46.953	0.00	0.00
ATOM	3132	CE	MET	X	207	38.357	40.203	47.004	0.00	0.00
ATOM	3133	HE1	MET	X	207	38.081	39.481	46.236	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.359	40.608	46.862	0.00	0.00
ATOM	3135	HE3	MET	X	207	38.367	39.710	47.976	0.00	0.00
ATOM	3136	C	MET	X	207	34.511	43.978	43.333	0.00	0.00
ATOM	3137	O	MET	X	207	33.340	43.943	43.806	0.00	0.00
ATOM	3138	N	HIE	X	208	34.978	44.940	42.548	0.00	0.00
ATOM	3139	H	HIE	X	208	35.970	45.120	42.482	0.00	0.00
ATOM	3140	CA	HIE	X	208	34.160	46.071	42.146	0.00	0.00
ATOM	3141	HA	HIE	X	208	33.731	46.531	43.036	0.00	0.00
ATOM	3142	CB	HIE	X	208	35.121	47.161	41.453	0.00	0.00
ATOM	3143	HB2	HIE	X	208	35.718	46.692	40.670	0.00	0.00
ATOM	3144	HB3	HIE	X	208	34.458	47.947	41.091	0.00	0.00
ATOM	3145	CG	HIE	X	208	35.966	47.927	42.418	0.00	0.00
ATOM	3146	ND1	HIE	X	208	35.496	48.512	43.635	0.00	0.00
ATOM	3147	CE1	HIE	X	208	36.582	49.083	44.097	0.00	0.00
ATOM	3148	HE1	HIE	X	208	36.687	49.644	45.014	0.00	0.00
ATOM	3149	NE2	HIE	X	208	37.625	49.017	43.222	0.00	0.00
ATOM	3150	HE2	HIE	X	208	38.585	49.275	43.402	0.00	0.00
ATOM	3151	CD2	HIE	X	208	37.308	48.228	42.238	0.00	0.00
ATOM	3152	HD2	HIE	X	208	37.951	47.787	41.491	0.00	0.00
ATOM	3153	C	HIE	X	208	33.024	45.675	41.146	0.00	0.00
ATOM	3154	O	HIE	X	208	31.934	46.297	41.171	0.00	0.00
ATOM	3155	N	LEU	X	209	33.189	44.593	40.387	0.00	0.00
ATOM	3156	H	LEU	X	209	34.090	44.158	40.256	0.00	0.00
ATOM	3157	CA	LEU	X	209	32.053	43.891	39.711	0.00	0.00
ATOM	3158	HA	LEU	X	209	31.653	44.578	38.965	0.00	0.00
ATOM	3159	CB	LEU	X	209	32.629	42.702	39.014	0.00	0.00
ATOM	3160	HB2	LEU	X	209	32.837	41.898	39.719	0.00	0.00
ATOM	3161	HB3	LEU	X	209	31.842	42.289	38.383	0.00	0.00
ATOM	3162	CG	LEU	X	209	33.894	42.959	38.123	0.00	0.00
ATOM	3163	HG	LEU	X	209	34.719	43.176	38.802	0.00	0.00
ATOM	3164	CD1	LEU	X	209	34.233	41.684	37.349	0.00	0.00
ATOM	3165	HD11	LEU	X	209	34.951	41.832	36.542	0.00	0.00
ATOM	3166	HD12	LEU	X	209	34.519	40.893	38.042	0.00	0.00
ATOM	3167	HD13	LEU	X	209	33.355	41.249	36.869	0.00	0.00
ATOM	3168	CD2	LEU	X	209	33.669	44.230	37.191	0.00	0.00
ATOM	3169	HD21	LEU	X	209	32.814	44.092	36.529	0.00	0.00
ATOM	3170	HD22	LEU	X	209	33.541	45.169	37.728	0.00	0.00
ATOM	3171	HD23	LEU	X	209	34.560	44.308	36.569	0.00	0.00
ATOM	3172	C	LEU	X	209	30.876	43.463	40.565	0.00	0.00
ATOM	3173	O	LEU	X	209	29.721	43.459	40.220	0.00	0.00
ATOM	3174	N	LEU	X	210	31.212	43.110	41.778	0.00	0.00
ATOM	3175	H	LEU	X	210	32.210	43.033	41.914	0.00	0.00
ATOM	3176	CA	LEU	X	210	30.325	42.465	42.808	0.00	0.00
ATOM	3177	HA	LEU	X	210	29.446	42.064	42.304	0.00	0.00
ATOM	3178	CB	LEU	X	210	31.152	41.367	43.641	0.00	0.00
ATOM	3179	HB2	LEU	X	210	32.049	41.886	43.979	0.00	0.00
ATOM	3180	HB3	LEU	X	210	30.489	41.123	44.471	0.00	0.00
ATOM	3181	CG	LEU	X	210	31.650	40.143	42.830	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.395	40.452	42.097	0.00	0.00
ATOM	3183	CD1	LEU	X	210	32.379	39.161	43.759	0.00	0.00
ATOM	3184	HD11	LEU	X	210	31.843	39.004	44.696	0.00	0.00
ATOM	3185	HD12	LEU	X	210	32.549	38.228	43.223	0.00	0.00
ATOM	3186	HD13	LEU	X	210	33.310	39.697	43.938	0.00	0.00
ATOM	3187	CD2	LEU	X	210	30.468	39.403	42.109	0.00	0.00

ATOM	3188	HD21	LEU	X	210	29.931	38.820	42.857	0.00	0.00
ATOM	3189	HD22	LEU	X	210	29.766	40.120	41.682	0.00	0.00
ATOM	3190	HD23	LEU	X	210	30.777	38.743	41.298	0.00	0.00
ATOM	3191	C	LEU	X	210	29.625	43.555	43.728	0.00	0.00
ATOM	3192	O	LEU	X	210	28.777	43.174	44.538	0.00	0.00
ATOM	3193	N	SER	X	211	30.012	44.794	43.537	0.00	0.00
ATOM	3194	H	SER	X	211	30.711	44.872	42.813	0.00	0.00
ATOM	3195	CA	SER	X	211	29.674	45.856	44.410	0.00	0.00
ATOM	3196	HA	SER	X	211	28.885	45.563	45.102	0.00	0.00
ATOM	3197	CB	SER	X	211	30.951	46.264	45.033	0.00	0.00
ATOM	3198	HB2	SER	X	211	31.336	45.299	45.363	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.622	46.757	44.329	0.00	0.00
ATOM	3200	OG	SER	X	211	30.692	47.035	46.223	0.00	0.00
ATOM	3201	HG	SER	X	211	30.259	46.444	46.843	0.00	0.00
ATOM	3202	C	SER	X	211	28.998	47.010	43.631	0.00	0.00
ATOM	3203	O	SER	X	211	29.678	47.883	43.111	0.00	0.00
ATOM	3204	N	PRO	X	212	27.663	47.093	43.568	0.00	0.00
ATOM	3205	CD	PRO	X	212	26.701	46.077	44.036	0.00	0.00
ATOM	3206	HD2	PRO	X	212	26.599	46.091	45.121	0.00	0.00
ATOM	3207	HD3	PRO	X	212	27.033	45.088	43.722	0.00	0.00
ATOM	3208	CG	PRO	X	212	25.331	46.387	43.439	0.00	0.00
ATOM	3209	HG2	PRO	X	212	24.498	46.421	44.141	0.00	0.00
ATOM	3210	HG3	PRO	X	212	25.130	45.683	42.631	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.489	47.802	42.847	0.00	0.00
ATOM	3212	HB2	PRO	X	212	25.015	48.608	43.407	0.00	0.00
ATOM	3213	HB3	PRO	X	212	25.000	47.651	41.886	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.962	48.033	42.724	0.00	0.00
ATOM	3215	HA	PRO	X	212	27.133	47.793	41.675	0.00	0.00
ATOM	3216	C	PRO	X	212	27.277	49.501	42.933	0.00	0.00
ATOM	3217	O	PRO	X	212	27.204	50.301	41.988	0.00	0.00
ATOM	3218	N	PRO	X	213	27.513	49.999	44.173	0.00	0.00
ATOM	3219	CD	PRO	X	213	27.226	49.309	45.432	0.00	0.00
ATOM	3220	HD2	PRO	X	213	28.183	48.828	45.630	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.425	48.570	45.416	0.00	0.00
ATOM	3222	CG	PRO	X	213	27.027	50.521	46.348	0.00	0.00
ATOM	3223	HG2	PRO	X	213	27.246	50.318	47.397	0.00	0.00
ATOM	3224	HG3	PRO	X	213	26.008	50.853	46.149	0.00	0.00
ATOM	3225	CB	PRO	X	213	28.082	51.506	45.929	0.00	0.00
ATOM	3226	HB2	PRO	X	213	29.078	51.273	46.306	0.00	0.00
ATOM	3227	HB3	PRO	X	213	27.723	52.452	46.334	0.00	0.00
ATOM	3228	CA	PRO	X	213	27.992	51.308	44.436	0.00	0.00
ATOM	3229	HA	PRO	X	213	27.324	52.121	44.151	0.00	0.00
ATOM	3230	C	PRO	X	213	29.306	51.550	43.648	0.00	0.00
ATOM	3231	O	PRO	X	213	29.560	52.691	43.278	0.00	0.00
ATOM	3232	N	SER	X	214	30.161	50.536	43.426	0.00	0.00
ATOM	3233	H	SER	X	214	29.950	49.591	43.713	0.00	0.00
ATOM	3234	CA	SER	X	214	31.279	50.682	42.412	0.00	0.00
ATOM	3235	HA	SER	X	214	31.743	51.661	42.526	0.00	0.00
ATOM	3236	CB	SER	X	214	32.446	49.721	42.822	0.00	0.00
ATOM	3237	HB2	SER	X	214	32.020	48.718	42.786	0.00	0.00
ATOM	3238	HB3	SER	X	214	33.262	49.747	42.099	0.00	0.00
ATOM	3239	OG	SER	X	214	33.007	49.889	44.085	0.00	0.00
ATOM	3240	HG	SER	X	214	33.867	49.464	44.115	0.00	0.00
ATOM	3241	C	SER	X	214	30.810	50.531	40.997	0.00	0.00
ATOM	3242	O	SER	X	214	31.215	51.331	40.127	0.00	0.00
ATOM	3243	N	ARG	X	215	29.903	49.544	40.804	0.00	0.00
ATOM	3244	H	ARG	X	215	29.528	49.024	41.584	0.00	0.00
ATOM	3245	CA	ARG	X	215	29.579	49.180	39.367	0.00	0.00
ATOM	3246	HA	ARG	X	215	30.500	48.827	38.903	0.00	0.00
ATOM	3247	CB	ARG	X	215	28.535	48.041	39.332	0.00	0.00
ATOM	3248	HB2	ARG	X	215	28.854	47.359	40.120	0.00	0.00
ATOM	3249	HB3	ARG	X	215	27.534	48.424	39.528	0.00	0.00
ATOM	3250	CG	ARG	X	215	28.734	47.368	37.929	0.00	0.00
ATOM	3251	HG2	ARG	X	215	28.345	48.055	37.178	0.00	0.00
ATOM	3252	HG3	ARG	X	215	29.783	47.198	37.688	0.00	0.00
ATOM	3253	CD	ARG	X	215	27.982	45.944	38.009	0.00	0.00
ATOM	3254	HD2	ARG	X	215	28.087	45.375	37.086	0.00	0.00
ATOM	3255	HD3	ARG	X	215	28.604	45.325	38.656	0.00	0.00
ATOM	3256	NE	ARG	X	215	26.616	45.930	38.576	0.00	0.00
ATOM	3257	HE	ARG	X	215	25.993	46.512	38.035	0.00	0.00

ATOM	3258	CZ	ARG	X	215	26.152	45.233	39.566	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.794	44.276	40.245	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.718	43.962	39.986	0.00	0.00
ATOM	3261	HH12	ARG	X	215	26.246	43.785	40.938	0.00	0.00
ATOM	3262	NH2	ARG	X	215	24.890	45.569	39.921	0.00	0.00
ATOM	3263	HH21	ARG	X	215	24.500	46.373	39.451	0.00	0.00
ATOM	3264	HH22	ARG	X	215	24.415	44.961	40.573	0.00	0.00
ATOM	3265	C	ARG	X	215	29.104	50.375	38.545	0.00	0.00
ATOM	3266	O	ARG	X	215	29.375	50.447	37.367	0.00	0.00
ATOM	3267	N	GLY	X	216	28.377	51.303	39.138	0.00	0.00
ATOM	3268	H	GLY	X	216	28.353	51.249	40.146	0.00	0.00
ATOM	3269	CA	GLY	X	216	27.805	52.385	38.379	0.00	0.00
ATOM	3270	HA2	GLY	X	216	27.303	52.174	37.472	0.00	0.00
ATOM	3271	HA3	GLY	X	216	27.083	52.954	38.945	0.00	0.00
ATOM	3272	C	GLY	X	216	28.910	53.389	37.980	0.00	0.00
ATOM	3273	O	GLY	X	216	28.657	54.309	37.197	0.00	0.00
ATOM	3274	N	LEU	X	217	30.142	53.327	38.429	0.00	0.00
ATOM	3275	H	LEU	X	217	30.384	52.520	38.987	0.00	0.00
ATOM	3276	CA	LEU	X	217	31.219	54.352	38.171	0.00	0.00
ATOM	3277	HA	LEU	X	217	30.700	55.289	37.968	0.00	0.00
ATOM	3278	CB	LEU	X	217	32.123	54.443	39.425	0.00	0.00
ATOM	3279	HB2	LEU	X	217	32.375	53.417	39.694	0.00	0.00
ATOM	3280	HB3	LEU	X	217	33.040	54.962	39.148	0.00	0.00
ATOM	3281	CG	LEU	X	217	31.497	55.053	40.706	0.00	0.00
ATOM	3282	HG	LEU	X	217	30.803	54.324	41.124	0.00	0.00
ATOM	3283	CD1	LEU	X	217	32.653	55.222	41.738	0.00	0.00
ATOM	3284	HD11	LEU	X	217	32.203	55.421	42.711	0.00	0.00
ATOM	3285	HD12	LEU	X	217	33.225	54.294	41.728	0.00	0.00
ATOM	3286	HD13	LEU	X	217	33.202	56.129	41.487	0.00	0.00
ATOM	3287	CD2	LEU	X	217	30.848	56.445	40.506	0.00	0.00
ATOM	3288	HD21	LEU	X	217	30.059	56.434	39.754	0.00	0.00
ATOM	3289	HD22	LEU	X	217	30.274	56.807	41.359	0.00	0.00
ATOM	3290	HD23	LEU	X	217	31.677	57.064	40.164	0.00	0.00
ATOM	3291	C	LEU	X	217	32.066	54.078	36.915	0.00	0.00
ATOM	3292	O	LEU	X	217	32.662	54.985	36.379	0.00	0.00
ATOM	3293	N	PHE	X	218	32.195	52.832	36.545	0.00	0.00
ATOM	3294	H	PHE	X	218	31.600	52.135	36.969	0.00	0.00
ATOM	3295	CA	PHE	X	218	33.037	52.362	35.441	0.00	0.00
ATOM	3296	HA	PHE	X	218	33.518	53.244	35.017	0.00	0.00
ATOM	3297	CB	PHE	X	218	34.289	51.593	35.998	0.00	0.00
ATOM	3298	HB2	PHE	X	218	34.919	51.327	35.149	0.00	0.00
ATOM	3299	HB3	PHE	X	218	34.949	52.219	36.599	0.00	0.00
ATOM	3300	CG	PHE	X	218	33.862	50.277	36.644	0.00	0.00
ATOM	3301	CD1	PHE	X	218	33.346	50.356	37.946	0.00	0.00
ATOM	3302	HD1	PHE	X	218	33.440	51.318	38.428	0.00	0.00
ATOM	3303	CE1	PHE	X	218	32.870	49.207	38.619	0.00	0.00
ATOM	3304	HE1	PHE	X	218	32.619	49.268	39.667	0.00	0.00
ATOM	3305	CZ	PHE	X	218	32.780	47.986	37.906	0.00	0.00
ATOM	3306	HZ	PHE	X	218	32.333	47.103	38.337	0.00	0.00
ATOM	3307	CE2	PHE	X	218	33.327	47.920	36.551	0.00	0.00
ATOM	3308	HE2	PHE	X	218	33.372	46.967	36.045	0.00	0.00
ATOM	3309	CD2	PHE	X	218	33.829	49.064	35.927	0.00	0.00
ATOM	3310	HD2	PHE	X	218	34.142	49.005	34.895	0.00	0.00
ATOM	3311	C	PHE	X	218	32.228	51.697	34.359	0.00	0.00
ATOM	3312	O	PHE	X	218	31.079	51.324	34.528	0.00	0.00
ATOM	3313	N	HIE	X	219	32.818	51.523	33.154	0.00	0.00
ATOM	3314	H	HIE	X	219	33.696	52.016	33.237	0.00	0.00
ATOM	3315	CA	HIE	X	219	32.155	51.110	31.919	0.00	0.00
ATOM	3316	HA	HIE	X	219	31.105	50.999	32.190	0.00	0.00
ATOM	3317	CB	HIE	X	219	32.317	52.238	30.929	0.00	0.00
ATOM	3318	HB2	HIE	X	219	33.374	52.305	30.673	0.00	0.00
ATOM	3319	HB3	HIE	X	219	31.666	52.054	30.075	0.00	0.00
ATOM	3320	CG	HIE	X	219	31.831	53.566	31.546	0.00	0.00
ATOM	3321	ND1	HIE	X	219	32.649	54.445	32.259	0.00	0.00
ATOM	3322	CE1	HIE	X	219	31.689	55.158	32.859	0.00	0.00
ATOM	3323	HE1	HIE	X	219	31.965	55.965	33.523	0.00	0.00
ATOM	3324	NE2	HIE	X	219	30.415	54.937	32.588	0.00	0.00
ATOM	3325	HE2	HIE	X	219	29.614	55.190	33.148	0.00	0.00
ATOM	3326	CD2	HIE	X	219	30.491	53.846	31.759	0.00	0.00
ATOM	3327	HD2	HIE	X	219	29.647	53.215	31.518	0.00	0.00

ATOM	3328	C	HIE	X	219	32.579	49.749	31.440	0.00	0.00
ATOM	3329	O	HIE	X	219	32.002	49.175	30.521	0.00	0.00
ATOM	3330	N	ARG	X	220	33.653	49.176	31.978	0.00	0.00
ATOM	3331	H	ARG	X	220	34.031	49.555	32.834	0.00	0.00
ATOM	3332	CA	ARG	X	220	34.436	47.991	31.429	0.00	0.00
ATOM	3333	HA	ARG	X	220	33.681	47.209	31.512	0.00	0.00
ATOM	3334	CB	ARG	X	220	34.778	48.246	29.957	0.00	0.00
ATOM	3335	HB2	ARG	X	220	35.400	47.487	29.483	0.00	0.00
ATOM	3336	HB3	ARG	X	220	33.833	48.272	29.415	0.00	0.00
ATOM	3337	CG	ARG	X	220	35.568	49.515	29.725	0.00	0.00
ATOM	3338	HG2	ARG	X	220	35.206	50.379	30.281	0.00	0.00
ATOM	3339	HG3	ARG	X	220	36.617	49.321	29.947	0.00	0.00
ATOM	3340	CD	ARG	X	220	35.437	49.955	28.235	0.00	0.00
ATOM	3341	HD2	ARG	X	220	36.264	50.562	27.865	0.00	0.00
ATOM	3342	HD3	ARG	X	220	35.578	49.029	27.678	0.00	0.00
ATOM	3343	NE	ARG	X	220	34.092	50.443	27.862	0.00	0.00
ATOM	3344	HE	ARG	X	220	33.422	49.687	27.838	0.00	0.00
ATOM	3345	CZ	ARG	X	220	33.672	51.645	27.440	0.00	0.00
ATOM	3346	NH1	ARG	X	220	34.556	52.579	27.232	0.00	0.00
ATOM	3347	HH11	ARG	X	220	35.556	52.446	27.193	0.00	0.00
ATOM	3348	HH12	ARG	X	220	34.140	53.447	26.925	0.00	0.00
ATOM	3349	NH2	ARG	X	220	32.414	51.770	27.148	0.00	0.00
ATOM	3350	HH21	ARG	X	220	31.833	50.958	27.298	0.00	0.00
ATOM	3351	HH22	ARG	X	220	32.047	52.608	26.720	0.00	0.00
ATOM	3352	C	ARG	X	220	35.571	47.650	32.309	0.00	0.00
ATOM	3353	O	ARG	X	220	36.138	48.545	32.940	0.00	0.00
ATOM	3354	N	ALA	X	221	35.986	46.406	32.510	0.00	0.00
ATOM	3355	H	ALA	X	221	35.609	45.631	31.983	0.00	0.00
ATOM	3356	CA	ALA	X	221	36.949	46.072	33.623	0.00	0.00
ATOM	3357	HA	ALA	X	221	37.485	46.920	34.049	0.00	0.00
ATOM	3358	CB	ALA	X	221	36.234	45.365	34.761	0.00	0.00
ATOM	3359	HB1	ALA	X	221	35.624	45.927	35.469	0.00	0.00
ATOM	3360	HB2	ALA	X	221	35.595	44.576	34.365	0.00	0.00
ATOM	3361	HB3	ALA	X	221	36.957	44.901	35.430	0.00	0.00
ATOM	3362	C	ALA	X	221	37.943	44.964	33.155	0.00	0.00
ATOM	3363	O	ALA	X	221	37.607	44.130	32.304	0.00	0.00
ATOM	3364	N	VAL	X	222	39.173	44.921	33.701	0.00	0.00
ATOM	3365	H	VAL	X	222	39.484	45.720	34.236	0.00	0.00
ATOM	3366	CA	VAL	X	222	40.314	44.054	33.276	0.00	0.00
ATOM	3367	HA	VAL	X	222	40.045	43.332	32.504	0.00	0.00
ATOM	3368	CB	VAL	X	222	41.461	44.968	32.703	0.00	0.00
ATOM	3369	HB	VAL	X	222	41.674	45.677	33.502	0.00	0.00
ATOM	3370	CG1	VAL	X	222	42.675	44.083	32.214	0.00	0.00
ATOM	3371	HG11	VAL	X	222	42.475	43.418	31.374	0.00	0.00
ATOM	3372	HG12	VAL	X	222	43.445	44.696	31.747	0.00	0.00
ATOM	3373	HG13	VAL	X	222	43.080	43.402	32.963	0.00	0.00
ATOM	3374	CG2	VAL	X	222	40.888	45.725	31.565	0.00	0.00
ATOM	3375	HG21	VAL	X	222	40.302	45.143	30.853	0.00	0.00
ATOM	3376	HG22	VAL	X	222	40.241	46.548	31.869	0.00	0.00
ATOM	3377	HG23	VAL	X	222	41.735	46.168	31.041	0.00	0.00
ATOM	3378	C	VAL	X	222	40.906	43.255	34.462	0.00	0.00
ATOM	3379	O	VAL	X	222	41.083	43.718	35.581	0.00	0.00
ATOM	3380	N	LEU	X	223	41.229	41.999	34.203	0.00	0.00
ATOM	3381	H	LEU	X	223	40.784	41.544	33.419	0.00	0.00
ATOM	3382	CA	LEU	X	223	41.957	41.187	35.201	0.00	0.00
ATOM	3383	HA	LEU	X	223	42.310	41.846	35.994	0.00	0.00
ATOM	3384	CB	LEU	X	223	41.024	40.105	35.885	0.00	0.00
ATOM	3385	HB2	LEU	X	223	40.512	39.475	35.158	0.00	0.00
ATOM	3386	HB3	LEU	X	223	41.706	39.463	36.443	0.00	0.00
ATOM	3387	CG	LEU	X	223	39.966	40.668	36.889	0.00	0.00
ATOM	3388	HG	LEU	X	223	40.473	41.499	37.379	0.00	0.00
ATOM	3389	CD1	LEU	X	223	38.618	41.119	36.305	0.00	0.00
ATOM	3390	HD11	LEU	X	223	38.429	42.170	36.523	0.00	0.00
ATOM	3391	HD12	LEU	X	223	38.610	41.139	35.215	0.00	0.00
ATOM	3392	HD13	LEU	X	223	37.778	40.529	36.673	0.00	0.00
ATOM	3393	CD2	LEU	X	223	39.699	39.712	38.046	0.00	0.00
ATOM	3394	HD21	LEU	X	223	40.653	39.704	38.574	0.00	0.00
ATOM	3395	HD22	LEU	X	223	38.856	39.931	38.701	0.00	0.00
ATOM	3396	HD23	LEU	X	223	39.588	38.721	37.605	0.00	0.00
ATOM	3397	C	LEU	X	223	43.207	40.504	34.599	0.00	0.00

ATOM	3398	O	LEU	X	223	43.223	40.081	33.483	0.00	0.00
ATOM	3399	N	GLN	X	224	44.225	40.366	35.458	0.00	0.00
ATOM	3400	H	GLN	X	224	44.087	40.693	36.403	0.00	0.00
ATOM	3401	CA	GLN	X	224	45.616	40.111	35.093	0.00	0.00
ATOM	3402	HA	GLN	X	224	45.702	39.406	34.267	0.00	0.00
ATOM	3403	CB	GLN	X	224	46.355	41.393	34.704	0.00	0.00
ATOM	3404	HB2	GLN	X	224	46.601	41.961	35.602	0.00	0.00
ATOM	3405	HB3	GLN	X	224	47.322	41.063	34.324	0.00	0.00
ATOM	3406	CG	GLN	X	224	45.595	42.199	33.690	0.00	0.00
ATOM	3407	HG2	GLN	X	224	45.269	41.582	32.853	0.00	0.00
ATOM	3408	HG3	GLN	X	224	44.649	42.559	34.095	0.00	0.00
ATOM	3409	CD	GLN	X	224	46.254	43.406	33.150	0.00	0.00
ATOM	3410	OE1	GLN	X	224	45.743	44.505	33.026	0.00	0.00
ATOM	3411	NE2	GLN	X	224	47.459	43.331	32.667	0.00	0.00
ATOM	3412	HE21	GLN	X	224	47.922	44.065	32.150	0.00	0.00
ATOM	3413	HE22	GLN	X	224	47.797	42.381	32.606	0.00	0.00
ATOM	3414	C	GLN	X	224	46.426	39.436	36.295	0.00	0.00
ATOM	3415	O	GLN	X	224	46.461	40.092	37.337	0.00	0.00
ATOM	3416	N	SER	X	225	46.922	38.186	36.131	0.00	0.00
ATOM	3417	H	SER	X	225	46.810	37.752	35.226	0.00	0.00
ATOM	3418	CA	SER	X	225	47.713	37.445	37.141	0.00	0.00
ATOM	3419	HA	SER	X	225	47.846	36.423	36.787	0.00	0.00
ATOM	3420	CB	SER	X	225	49.069	38.053	37.224	0.00	0.00
ATOM	3421	HB2	SER	X	225	48.967	39.136	37.280	0.00	0.00
ATOM	3422	HB3	SER	X	225	49.550	37.598	38.090	0.00	0.00
ATOM	3423	OG	SER	X	225	49.918	37.810	36.135	0.00	0.00
ATOM	3424	HG	SER	X	225	49.899	36.879	35.901	0.00	0.00
ATOM	3425	C	SER	X	225	46.976	37.261	38.512	0.00	0.00
ATOM	3426	O	SER	X	225	47.625	36.872	39.517	0.00	0.00
ATOM	3427	N	GLY	X	226	45.637	37.618	38.581	0.00	0.00
ATOM	3428	H	GLY	X	226	45.096	37.876	37.768	0.00	0.00
ATOM	3429	CA	GLY	X	226	44.913	37.599	39.812	0.00	0.00
ATOM	3430	HA2	GLY	X	226	45.206	36.780	40.428	0.00	0.00
ATOM	3431	HA3	GLY	X	226	45.157	38.548	40.368	0.00	0.00
ATOM	3432	C	GLY	X	226	43.374	37.411	39.585	0.00	0.00
ATOM	3433	O	GLY	X	226	42.938	37.772	38.470	0.00	0.00
ATOM	3434	N	ALA	X	227	42.717	36.996	40.644	0.00	0.00
ATOM	3435	H	ALA	X	227	43.208	36.664	41.462	0.00	0.00
ATOM	3436	CA	ALA	X	227	41.311	36.852	40.588	0.00	0.00
ATOM	3437	HA	ALA	X	227	40.889	37.563	39.877	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.884	35.460	40.024	0.00	0.00
ATOM	3439	HB1	ALA	X	227	41.223	34.667	40.691	0.00	0.00
ATOM	3440	HB2	ALA	X	227	39.812	35.353	39.859	0.00	0.00
ATOM	3441	HB3	ALA	X	227	41.489	35.215	39.151	0.00	0.00
ATOM	3442	C	ALA	X	227	40.664	37.023	41.970	0.00	0.00
ATOM	3443	O	ALA	X	227	41.361	36.627	42.945	0.00	0.00
ATOM	3444	N	PRO	X	228	39.374	37.430	42.029	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.569	37.905	40.977	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.465	37.174	40.175	0.00	0.00
ATOM	3447	HD3	PRO	X	228	39.052	38.804	40.595	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.156	38.162	41.567	0.00	0.00
ATOM	3449	HG2	PRO	X	228	36.621	37.213	41.524	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.573	38.961	41.109	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.466	38.555	43.002	0.00	0.00
ATOM	3452	HB2	PRO	X	228	36.607	38.410	43.656	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.884	39.558	43.084	0.00	0.00
ATOM	3454	CA	PRO	X	228	38.663	37.597	43.292	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.307	38.153	43.972	0.00	0.00
ATOM	3456	C	PRO	X	228	38.314	36.309	43.988	0.00	0.00
ATOM	3457	O	PRO	X	228	38.306	36.147	45.253	0.00	0.00
ATOM	3458	N	ASN	X	229	37.890	35.293	43.226	0.00	0.00
ATOM	3459	H	ASN	X	229	37.700	35.451	42.246	0.00	0.00
ATOM	3460	CA	ASN	X	229	37.485	33.947	43.687	0.00	0.00
ATOM	3461	HA	ASN	X	229	37.159	34.032	44.724	0.00	0.00
ATOM	3462	CB	ASN	X	229	36.403	33.280	42.756	0.00	0.00
ATOM	3463	HB2	ASN	X	229	36.160	32.322	43.215	0.00	0.00
ATOM	3464	HB3	ASN	X	229	35.469	33.825	42.895	0.00	0.00
ATOM	3465	CG	ASN	X	229	36.877	33.245	41.289	0.00	0.00
ATOM	3466	OD1	ASN	X	229	36.978	34.281	40.594	0.00	0.00
ATOM	3467	ND2	ASN	X	229	37.276	32.127	40.717	0.00	0.00

ATOM	3468	HD21	ASN	X	229	37.552	32.051	39.748	0.00	0.00
ATOM	3469	HD22	ASN	X	229	37.222	31.245	41.207	0.00	0.00
ATOM	3470	C	ASN	X	229	38.807	33.058	43.877	0.00	0.00
ATOM	3471	O	ASN	X	229	38.651	31.840	44.227	0.00	0.00
ATOM	3472	N	GLY	X	230	39.993	33.680	43.708	0.00	0.00
ATOM	3473	H	GLY	X	230	39.879	34.648	43.444	0.00	0.00
ATOM	3474	CA	GLY	X	230	41.285	33.166	44.194	0.00	0.00
ATOM	3475	HA2	GLY	X	230	41.449	32.186	43.738	0.00	0.00
ATOM	3476	HA3	GLY	X	230	42.107	33.837	43.872	0.00	0.00
ATOM	3477	C	GLY	X	230	41.303	33.051	45.694	0.00	0.00
ATOM	3478	O	GLY	X	230	40.925	34.052	46.261	0.00	0.00
ATOM	3479	N	PRO	X	231	41.711	31.918	46.330	0.00	0.00
ATOM	3480	CD	PRO	X	231	42.490	30.830	45.668	0.00	0.00
ATOM	3481	HD2	PRO	X	231	43.311	31.168	45.036	0.00	0.00
ATOM	3482	HD3	PRO	X	231	41.768	30.300	45.047	0.00	0.00
ATOM	3483	CG	PRO	X	231	43.043	29.957	46.792	0.00	0.00
ATOM	3484	HG2	PRO	X	231	43.933	30.461	47.170	0.00	0.00
ATOM	3485	HG3	PRO	X	231	43.127	28.933	46.428	0.00	0.00
ATOM	3486	CB	PRO	X	231	41.930	30.079	47.850	0.00	0.00
ATOM	3487	HB2	PRO	X	231	42.258	29.898	48.874	0.00	0.00
ATOM	3488	HB3	PRO	X	231	41.060	29.480	47.584	0.00	0.00
ATOM	3489	CA	PRO	X	231	41.456	31.484	47.716	0.00	0.00
ATOM	3490	HA	PRO	X	231	40.379	31.466	47.886	0.00	0.00
ATOM	3491	C	PRO	X	231	42.170	32.469	48.699	0.00	0.00
ATOM	3492	O	PRO	X	231	41.623	32.772	49.767	0.00	0.00
ATOM	3493	N	TRP	X	232	43.358	32.983	48.257	0.00	0.00
ATOM	3494	H	TRP	X	232	43.693	32.713	47.343	0.00	0.00
ATOM	3495	CA	TRP	X	232	44.291	33.911	48.945	0.00	0.00
ATOM	3496	HA	TRP	X	232	44.209	33.824	50.028	0.00	0.00
ATOM	3497	CB	TRP	X	232	45.711	33.656	48.407	0.00	0.00
ATOM	3498	HB2	TRP	X	232	46.378	34.253	49.029	0.00	0.00
ATOM	3499	HB3	TRP	X	232	45.908	32.618	48.673	0.00	0.00
ATOM	3500	CG	TRP	X	232	45.944	33.956	46.968	0.00	0.00
ATOM	3501	CD1	TRP	X	232	45.765	33.085	45.949	0.00	0.00
ATOM	3502	HD1	TRP	X	232	45.464	32.054	46.062	0.00	0.00
ATOM	3503	NE1	TRP	X	232	45.867	33.821	44.754	0.00	0.00
ATOM	3504	HE1	TRP	X	232	45.721	33.388	43.853	0.00	0.00
ATOM	3505	CE2	TRP	X	232	46.145	35.149	45.015	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	46.195	36.269	44.189	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	46.071	36.113	43.128	0.00	0.00
ATOM	3508	CH2	TRP	X	232	46.363	37.589	44.780	0.00	0.00
ATOM	3509	HH2	TRP	X	232	46.491	38.446	44.135	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	46.382	37.720	46.143	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	46.534	38.733	46.487	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.256	36.594	46.980	0.00	0.00
ATOM	3513	HE3	TRP	X	232	46.175	36.774	48.042	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.174	35.294	46.458	0.00	0.00
ATOM	3515	C	TRP	X	232	43.836	35.401	48.791	0.00	0.00
ATOM	3516	O	TRP	X	232	44.350	36.176	49.510	0.00	0.00
ATOM	3517	N	ALA	X	233	42.869	35.667	47.896	0.00	0.00
ATOM	3518	H	ALA	X	233	42.343	34.923	47.460	0.00	0.00
ATOM	3519	CA	ALA	X	233	42.286	37.013	47.901	0.00	0.00
ATOM	3520	HA	ALA	X	233	42.975	37.769	48.277	0.00	0.00
ATOM	3521	CB	ALA	X	233	41.819	37.252	46.457	0.00	0.00
ATOM	3522	HB1	ALA	X	233	42.671	37.027	45.815	0.00	0.00
ATOM	3523	HB2	ALA	X	233	41.003	36.584	46.180	0.00	0.00
ATOM	3524	HB3	ALA	X	233	41.561	38.275	46.185	0.00	0.00
ATOM	3525	C	ALA	X	233	41.040	37.142	48.856	0.00	0.00
ATOM	3526	O	ALA	X	233	40.322	38.132	48.746	0.00	0.00
ATOM	3527	N	THR	X	234	40.699	36.123	49.711	0.00	0.00
ATOM	3528	H	THR	X	234	41.262	35.298	49.861	0.00	0.00
ATOM	3529	CA	THR	X	234	39.624	36.335	50.736	0.00	0.00
ATOM	3530	HA	THR	X	234	39.506	37.377	51.034	0.00	0.00
ATOM	3531	CB	THR	X	234	38.280	35.803	50.183	0.00	0.00
ATOM	3532	HB	THR	X	234	38.357	34.723	50.059	0.00	0.00
ATOM	3533	CG2	THR	X	234	37.049	36.244	50.930	0.00	0.00
ATOM	3534	HG21	THR	X	234	37.052	37.327	51.056	0.00	0.00
ATOM	3535	HG22	THR	X	234	36.203	35.907	50.331	0.00	0.00
ATOM	3536	HG23	THR	X	234	36.979	35.813	51.928	0.00	0.00
ATOM	3537	OG1	THR	X	234	38.162	36.428	48.981	0.00	0.00

ATOM	3538	HG1	THR	X	234	38.808	37.138	48.992	0.00	0.00
ATOM	3539	C	THR	X	234	39.999	35.595	52.031	0.00	0.00
ATOM	3540	O	THR	X	234	40.917	34.837	52.110	0.00	0.00
ATOM	3541	N	VAL	X	235	39.178	35.904	53.050	0.00	0.00
ATOM	3542	H	VAL	X	235	38.562	36.698	52.952	0.00	0.00
ATOM	3543	CA	VAL	X	235	39.207	35.295	54.445	0.00	0.00
ATOM	3544	HA	VAL	X	235	39.141	34.246	54.158	0.00	0.00
ATOM	3545	CB	VAL	X	235	40.527	35.618	55.195	0.00	0.00
ATOM	3546	HB	VAL	X	235	41.384	35.415	54.552	0.00	0.00
ATOM	3547	CG1	VAL	X	235	40.705	37.129	55.526	0.00	0.00
ATOM	3548	HG11	VAL	X	235	40.853	37.821	54.696	0.00	0.00
ATOM	3549	HG12	VAL	X	235	39.766	37.440	55.985	0.00	0.00
ATOM	3550	HG13	VAL	X	235	41.485	37.198	56.284	0.00	0.00
ATOM	3551	CG2	VAL	X	235	40.756	34.671	56.490	0.00	0.00
ATOM	3552	HG21	VAL	X	235	39.940	34.682	57.213	0.00	0.00
ATOM	3553	HG22	VAL	X	235	40.917	33.637	56.186	0.00	0.00
ATOM	3554	HG23	VAL	X	235	41.668	34.895	57.042	0.00	0.00
ATOM	3555	C	VAL	X	235	37.910	35.629	55.156	0.00	0.00
ATOM	3556	O	VAL	X	235	37.078	36.409	54.694	0.00	0.00
ATOM	3557	N	GLY	X	236	37.672	34.715	56.127	0.00	0.00
ATOM	3558	H	GLY	X	236	38.415	34.055	56.307	0.00	0.00
ATOM	3559	CA	GLY	X	236	36.391	34.705	56.879	0.00	0.00
ATOM	3560	HA2	GLY	X	236	35.549	34.872	56.250	0.00	0.00
ATOM	3561	HA3	GLY	X	236	36.290	33.669	57.322	0.00	0.00
ATOM	3562	C	GLY	X	236	36.403	35.575	58.162	0.00	0.00
ATOM	3563	O	GLY	X	236	37.398	36.085	58.728	0.00	0.00
ATOM	3564	N	MET	X	237	35.141	35.867	58.597	0.00	0.00
ATOM	3565	H	MET	X	237	34.393	35.514	58.017	0.00	0.00
ATOM	3566	CA	MET	X	237	34.801	36.661	59.878	0.00	0.00
ATOM	3567	HA	MET	X	237	35.004	37.721	59.729	0.00	0.00
ATOM	3568	CB	MET	X	237	33.318	36.481	60.263	0.00	0.00
ATOM	3569	HB2	MET	X	237	33.070	35.438	60.068	0.00	0.00
ATOM	3570	HB3	MET	X	237	33.101	36.675	61.313	0.00	0.00
ATOM	3571	CG	MET	X	237	32.428	37.414	59.514	0.00	0.00
ATOM	3572	HG2	MET	X	237	32.809	38.429	59.623	0.00	0.00
ATOM	3573	HG3	MET	X	237	32.530	36.972	58.522	0.00	0.00
ATOM	3574	SD	MET	X	237	30.741	37.433	60.246	0.00	0.00
ATOM	3575	CE	MET	X	237	30.137	38.142	58.643	0.00	0.00
ATOM	3576	HE1	MET	X	237	29.978	37.289	57.983	0.00	0.00
ATOM	3577	HE2	MET	X	237	29.132	38.562	58.687	0.00	0.00
ATOM	3578	HE3	MET	X	237	30.870	38.755	58.118	0.00	0.00
ATOM	3579	C	MET	X	237	35.523	36.151	61.118	0.00	0.00
ATOM	3580	O	MET	X	237	36.105	36.970	61.873	0.00	0.00
ATOM	3581	N	GLY	X	238	35.614	34.869	61.370	0.00	0.00
ATOM	3582	H	GLY	X	238	35.075	34.266	60.766	0.00	0.00
ATOM	3583	CA	GLY	X	238	36.217	34.316	62.608	0.00	0.00
ATOM	3584	HA2	GLY	X	238	35.791	34.836	63.418	0.00	0.00
ATOM	3585	HA3	GLY	X	238	35.960	33.223	62.776	0.00	0.00
ATOM	3586	C	GLY	X	238	37.763	34.345	62.744	0.00	0.00
ATOM	3587	O	GLY	X	238	38.265	34.828	63.742	0.00	0.00
ATOM	3588	N	GLU	X	239	38.441	34.053	61.648	0.00	0.00
ATOM	3589	H	GLU	X	239	37.994	33.489	60.939	0.00	0.00
ATOM	3590	CA	GLU	X	239	39.786	34.392	61.461	0.00	0.00
ATOM	3591	HA	GLU	X	239	40.383	33.926	62.245	0.00	0.00
ATOM	3592	CB	GLU	X	239	40.340	33.712	60.199	0.00	0.00
ATOM	3593	HB2	GLU	X	239	39.606	33.726	59.393	0.00	0.00
ATOM	3594	HB3	GLU	X	239	41.261	34.191	59.866	0.00	0.00
ATOM	3595	CG	GLU	X	239	40.779	32.268	60.385	0.00	0.00
ATOM	3596	HG2	GLU	X	239	40.048	31.786	61.034	0.00	0.00
ATOM	3597	HG3	GLU	X	239	40.921	31.796	59.413	0.00	0.00
ATOM	3598	CD	GLU	X	239	42.083	32.283	61.106	0.00	0.00
ATOM	3599	OE1	GLU	X	239	42.125	31.791	62.200	0.00	0.00
ATOM	3600	OE2	GLU	X	239	43.144	32.832	60.610	0.00	0.00
ATOM	3601	C	GLU	X	239	40.048	35.903	61.531	0.00	0.00
ATOM	3602	O	GLU	X	239	40.790	36.256	62.375	0.00	0.00
ATOM	3603	N	ALA	X	240	39.289	36.801	60.824	0.00	0.00
ATOM	3604	H	ALA	X	240	38.546	36.391	60.277	0.00	0.00
ATOM	3605	CA	ALA	X	240	39.440	38.238	61.064	0.00	0.00
ATOM	3606	HA	ALA	X	240	40.421	38.541	60.698	0.00	0.00
ATOM	3607	CB	ALA	X	240	38.312	38.989	60.311	0.00	0.00

ATOM	3608	HB1	ALA	X	240	38.251	38.861	59.230	0.00	0.00
ATOM	3609	HB2	ALA	X	240	37.332	38.670	60.667	0.00	0.00
ATOM	3610	HB3	ALA	X	240	38.460	40.051	60.507	0.00	0.00
ATOM	3611	C	ALA	X	240	39.401	38.670	62.526	0.00	0.00
ATOM	3612	O	ALA	X	240	40.422	39.173	63.002	0.00	0.00
ATOM	3613	N	ARG	X	241	38.308	38.387	63.226	0.00	0.00
ATOM	3614	H	ARG	X	241	37.508	38.077	62.694	0.00	0.00
ATOM	3615	CA	ARG	X	241	38.160	38.548	64.748	0.00	0.00
ATOM	3616	HA	ARG	X	241	38.021	39.602	64.989	0.00	0.00
ATOM	3617	CB	ARG	X	241	36.871	37.797	65.225	0.00	0.00
ATOM	3618	HB2	ARG	X	241	36.004	38.312	64.810	0.00	0.00
ATOM	3619	HB3	ARG	X	241	36.791	36.720	65.082	0.00	0.00
ATOM	3620	CG	ARG	X	241	36.611	38.088	66.732	0.00	0.00
ATOM	3621	HG2	ARG	X	241	36.880	37.204	67.309	0.00	0.00
ATOM	3622	HG3	ARG	X	241	37.254	38.907	67.055	0.00	0.00
ATOM	3623	CD	ARG	X	241	35.207	38.523	67.042	0.00	0.00
ATOM	3624	HD2	ARG	X	241	34.914	39.346	66.391	0.00	0.00
ATOM	3625	HD3	ARG	X	241	34.565	37.699	66.730	0.00	0.00
ATOM	3626	NE	ARG	X	241	34.957	38.874	68.487	0.00	0.00
ATOM	3627	HE	ARG	X	241	35.304	38.135	69.082	0.00	0.00
ATOM	3628	CZ	ARG	X	241	34.705	40.047	69.075	0.00	0.00
ATOM	3629	NH1	ARG	X	241	34.359	41.125	68.415	0.00	0.00
ATOM	3630	HH11	ARG	X	241	34.376	41.078	67.406	0.00	0.00
ATOM	3631	HH12	ARG	X	241	34.420	41.976	68.956	0.00	0.00
ATOM	3632	NH2	ARG	X	241	34.455	40.148	70.389	0.00	0.00
ATOM	3633	HH21	ARG	X	241	34.435	39.348	71.006	0.00	0.00
ATOM	3634	HH22	ARG	X	241	34.472	41.016	70.906	0.00	0.00
ATOM	3635	C	ARG	X	241	39.433	38.080	65.490	0.00	0.00
ATOM	3636	O	ARG	X	241	39.986	38.812	66.380	0.00	0.00
ATOM	3637	N	ARG	X	242	39.946	36.867	65.180	0.00	0.00
ATOM	3638	H	ARG	X	242	39.559	36.318	64.427	0.00	0.00
ATOM	3639	CA	ARG	X	242	41.082	36.234	65.870	0.00	0.00
ATOM	3640	HA	ARG	X	242	40.861	36.404	66.924	0.00	0.00
ATOM	3641	CB	ARG	X	242	41.243	34.798	65.420	0.00	0.00
ATOM	3642	HB2	ARG	X	242	40.427	34.127	65.688	0.00	0.00
ATOM	3643	HB3	ARG	X	242	41.376	34.718	64.341	0.00	0.00
ATOM	3644	CG	ARG	X	242	42.401	34.158	66.286	0.00	0.00
ATOM	3645	HG2	ARG	X	242	43.262	34.800	66.097	0.00	0.00
ATOM	3646	HG3	ARG	X	242	42.127	34.276	67.335	0.00	0.00
ATOM	3647	CD	ARG	X	242	42.920	32.735	65.907	0.00	0.00
ATOM	3648	HD2	ARG	X	242	43.743	32.515	66.587	0.00	0.00
ATOM	3649	HD3	ARG	X	242	42.128	32.019	66.127	0.00	0.00
ATOM	3650	NE	ARG	X	242	43.456	32.728	64.534	0.00	0.00
ATOM	3651	HE	ARG	X	242	42.879	32.280	63.837	0.00	0.00
ATOM	3652	CZ	ARG	X	242	44.606	33.193	64.029	0.00	0.00
ATOM	3653	NH1	ARG	X	242	45.584	33.830	64.749	0.00	0.00
ATOM	3654	HH11	ARG	X	242	45.589	33.937	65.753	0.00	0.00
ATOM	3655	HH12	ARG	X	242	46.345	34.315	64.294	0.00	0.00
ATOM	3656	NH2	ARG	X	242	44.829	32.998	62.776	0.00	0.00
ATOM	3657	HH21	ARG	X	242	44.086	32.773	62.130	0.00	0.00
ATOM	3658	HH22	ARG	X	242	45.748	33.281	62.465	0.00	0.00
ATOM	3659	C	ARG	X	242	42.274	37.063	65.621	0.00	0.00
ATOM	3660	O	ARG	X	242	42.869	37.651	66.605	0.00	0.00
ATOM	3661	N	ARG	X	243	42.694	37.329	64.342	0.00	0.00
ATOM	3662	H	ARG	X	243	42.107	37.289	63.521	0.00	0.00
ATOM	3663	CA	ARG	X	243	43.982	37.897	64.100	0.00	0.00
ATOM	3664	HA	ARG	X	243	44.754	37.343	64.633	0.00	0.00
ATOM	3665	CB	ARG	X	243	44.295	37.913	62.596	0.00	0.00
ATOM	3666	HB2	ARG	X	243	43.579	38.451	61.974	0.00	0.00
ATOM	3667	HB3	ARG	X	243	45.253	38.319	62.270	0.00	0.00
ATOM	3668	CG	ARG	X	243	44.343	36.554	61.903	0.00	0.00
ATOM	3669	HG2	ARG	X	243	45.049	35.922	62.442	0.00	0.00
ATOM	3670	HG3	ARG	X	243	43.397	36.018	61.976	0.00	0.00
ATOM	3671	CD	ARG	X	243	44.723	36.644	60.410	0.00	0.00
ATOM	3672	HD2	ARG	X	243	44.329	37.572	59.995	0.00	0.00
ATOM	3673	HD3	ARG	X	243	45.808	36.726	60.342	0.00	0.00
ATOM	3674	NE	ARG	X	243	44.161	35.376	59.801	0.00	0.00
ATOM	3675	HE	ARG	X	243	43.600	34.813	60.425	0.00	0.00
ATOM	3676	CZ	ARG	X	243	44.346	34.985	58.579	0.00	0.00
ATOM	3677	NH1	ARG	X	243	44.946	35.727	57.614	0.00	0.00

ATOM	3678	HH11	ARG	X	243	45.449	36.596	57.725	0.00	0.00
ATOM	3679	HH12	ARG	X	243	44.995	35.442	56.646	0.00	0.00
ATOM	3680	NH2	ARG	X	243	43.948	33.841	58.104	0.00	0.00
ATOM	3681	HH21	ARG	X	243	43.699	33.170	58.817	0.00	0.00
ATOM	3682	HH22	ARG	X	243	44.193	33.613	57.151	0.00	0.00
ATOM	3683	C	ARG	X	243	44.039	39.319	64.559	0.00	0.00
ATOM	3684	O	ARG	X	243	45.033	39.829	65.026	0.00	0.00
ATOM	3685	N	ALA	X	244	42.880	40.032	64.540	0.00	0.00
ATOM	3686	H	ALA	X	244	42.066	39.613	64.113	0.00	0.00
ATOM	3687	CA	ALA	X	244	42.622	41.381	65.094	0.00	0.00
ATOM	3688	HA	ALA	X	244	43.398	41.974	64.610	0.00	0.00
ATOM	3689	CB	ALA	X	244	41.198	41.845	64.660	0.00	0.00
ATOM	3690	HB1	ALA	X	244	41.080	42.868	65.017	0.00	0.00
ATOM	3691	HB2	ALA	X	244	41.117	41.713	63.581	0.00	0.00
ATOM	3692	HB3	ALA	X	244	40.448	41.248	65.178	0.00	0.00
ATOM	3693	C	ALA	X	244	42.808	41.371	66.649	0.00	0.00
ATOM	3694	O	ALA	X	244	43.397	42.311	67.190	0.00	0.00
ATOM	3695	N	THR	X	245	42.350	40.361	67.348	0.00	0.00
ATOM	3696	H	THR	X	245	42.050	39.508	66.899	0.00	0.00
ATOM	3697	CA	THR	X	245	42.277	40.398	68.827	0.00	0.00
ATOM	3698	HA	THR	X	245	42.155	41.422	69.181	0.00	0.00
ATOM	3699	CB	THR	X	245	41.224	39.414	69.275	0.00	0.00
ATOM	3700	HB	THR	X	245	41.381	38.506	68.694	0.00	0.00
ATOM	3701	CG2	THR	X	245	41.183	39.364	70.787	0.00	0.00
ATOM	3702	HG21	THR	X	245	42.058	38.828	71.154	0.00	0.00
ATOM	3703	HG22	THR	X	245	41.101	40.370	71.197	0.00	0.00
ATOM	3704	HG23	THR	X	245	40.300	38.758	70.995	0.00	0.00
ATOM	3705	OG1	THR	X	245	39.986	40.005	68.830	0.00	0.00
ATOM	3706	HG1	THR	X	245	39.785	39.681	67.949	0.00	0.00
ATOM	3707	C	THR	X	245	43.585	40.026	69.411	0.00	0.00
ATOM	3708	O	THR	X	245	44.046	40.707	70.301	0.00	0.00
ATOM	3709	N	GLN	X	246	44.298	39.084	68.732	0.00	0.00
ATOM	3710	H	GLN	X	246	43.904	38.648	67.911	0.00	0.00
ATOM	3711	CA	GLN	X	246	45.654	38.743	69.079	0.00	0.00
ATOM	3712	HA	GLN	X	246	45.709	38.430	70.122	0.00	0.00
ATOM	3713	CB	GLN	X	246	46.001	37.524	68.212	0.00	0.00
ATOM	3714	HB2	GLN	X	246	45.200	36.807	68.392	0.00	0.00
ATOM	3715	HB3	GLN	X	246	46.066	37.821	67.165	0.00	0.00
ATOM	3716	CG	GLN	X	246	47.312	36.837	68.639	0.00	0.00
ATOM	3717	HG2	GLN	X	246	48.189	37.479	68.558	0.00	0.00
ATOM	3718	HG3	GLN	X	246	47.254	36.464	69.661	0.00	0.00
ATOM	3719	CD	GLN	X	246	47.513	35.461	67.919	0.00	0.00
ATOM	3720	OE1	GLN	X	246	46.677	35.011	67.123	0.00	0.00
ATOM	3721	NE2	GLN	X	246	48.587	34.841	68.042	0.00	0.00
ATOM	3722	HE21	GLN	X	246	48.692	33.935	67.609	0.00	0.00
ATOM	3723	HE22	GLN	X	246	49.247	35.141	68.746	0.00	0.00
ATOM	3724	C	GLN	X	246	46.695	39.762	68.780	0.00	0.00
ATOM	3725	O	GLN	X	246	47.723	39.844	69.462	0.00	0.00
ATOM	3726	N	LEU	X	247	46.625	40.527	67.705	0.00	0.00
ATOM	3727	H	LEU	X	247	46.089	40.232	66.901	0.00	0.00
ATOM	3728	CA	LEU	X	247	47.286	41.791	67.505	0.00	0.00
ATOM	3729	HA	LEU	X	247	48.358	41.596	67.452	0.00	0.00
ATOM	3730	CB	LEU	X	247	46.890	42.157	66.093	0.00	0.00
ATOM	3731	HB2	LEU	X	247	47.232	41.372	65.419	0.00	0.00
ATOM	3732	HB3	LEU	X	247	45.803	42.175	66.010	0.00	0.00
ATOM	3733	CG	LEU	X	247	47.358	43.415	65.446	0.00	0.00
ATOM	3734	HG	LEU	X	247	46.938	44.299	65.925	0.00	0.00
ATOM	3735	CD1	LEU	X	247	48.885	43.548	65.509	0.00	0.00
ATOM	3736	HD11	LEU	X	247	49.361	42.753	64.936	0.00	0.00
ATOM	3737	HD12	LEU	X	247	49.224	44.509	65.123	0.00	0.00
ATOM	3738	HD13	LEU	X	247	49.267	43.600	66.529	0.00	0.00
ATOM	3739	CD2	LEU	X	247	46.759	43.489	64.021	0.00	0.00
ATOM	3740	HD21	LEU	X	247	45.695	43.284	64.139	0.00	0.00
ATOM	3741	HD22	LEU	X	247	46.787	44.496	63.604	0.00	0.00
ATOM	3742	HD23	LEU	X	247	47.265	42.783	63.362	0.00	0.00
ATOM	3743	C	LEU	X	247	47.029	42.919	68.516	0.00	0.00
ATOM	3744	O	LEU	X	247	47.965	43.629	68.948	0.00	0.00
ATOM	3745	N	ALA	X	248	45.825	42.975	69.032	0.00	0.00
ATOM	3746	H	ALA	X	248	45.031	42.503	68.623	0.00	0.00
ATOM	3747	CA	ALA	X	248	45.602	43.833	70.207	0.00	0.00

ATOM	3748	HA	ALA	X	248	46.044	44.799	69.967	0.00	0.00
ATOM	3749	CB	ALA	X	248	44.087	43.966	70.519	0.00	0.00
ATOM	3750	HB1	ALA	X	248	43.941	44.695	71.316	0.00	0.00
ATOM	3751	HB2	ALA	X	248	43.494	44.260	69.653	0.00	0.00
ATOM	3752	HB3	ALA	X	248	43.659	43.037	70.896	0.00	0.00
ATOM	3753	C	ALA	X	248	46.473	43.346	71.407	0.00	0.00
ATOM	3754	O	ALA	X	248	47.167	44.111	72.091	0.00	0.00
ATOM	3755	N	HIE	X	249	46.323	42.052	71.656	0.00	0.00
ATOM	3756	H	HIE	X	249	45.686	41.472	71.128	0.00	0.00
ATOM	3757	CA	HIE	X	249	47.198	41.415	72.649	0.00	0.00
ATOM	3758	HA	HIE	X	249	46.848	41.814	73.601	0.00	0.00
ATOM	3759	CB	HIE	X	249	46.965	39.871	72.664	0.00	0.00
ATOM	3760	HB2	HIE	X	249	47.236	39.371	71.734	0.00	0.00
ATOM	3761	HB3	HIE	X	249	47.665	39.541	73.432	0.00	0.00
ATOM	3762	CG	HIE	X	249	45.619	39.341	73.082	0.00	0.00
ATOM	3763	ND1	HIE	X	249	45.138	38.065	72.787	0.00	0.00
ATOM	3764	CE1	HIE	X	249	43.953	38.055	73.351	0.00	0.00
ATOM	3765	HE1	HIE	X	249	43.377	37.157	73.522	0.00	0.00
ATOM	3766	NE2	HIE	X	249	43.717	39.228	73.920	0.00	0.00
ATOM	3767	HE2	HIE	X	249	42.896	39.498	74.443	0.00	0.00
ATOM	3768	CD2	HIE	X	249	44.660	40.079	73.661	0.00	0.00
ATOM	3769	HD2	HIE	X	249	44.806	41.127	73.874	0.00	0.00
ATOM	3770	C	HIE	X	249	48.746	41.661	72.553	0.00	0.00
ATOM	3771	O	HIE	X	249	49.311	42.068	73.586	0.00	0.00
ATOM	3772	N	LEU	X	250	49.292	41.499	71.343	0.00	0.00
ATOM	3773	H	LEU	X	250	48.665	41.045	70.695	0.00	0.00
ATOM	3774	CA	LEU	X	250	50.690	41.809	70.913	0.00	0.00
ATOM	3775	HA	LEU	X	250	51.367	41.220	71.531	0.00	0.00
ATOM	3776	CB	LEU	X	250	51.082	41.371	69.398	0.00	0.00
ATOM	3777	HB2	LEU	X	250	50.175	41.499	68.807	0.00	0.00
ATOM	3778	HB3	LEU	X	250	52.005	41.832	69.046	0.00	0.00
ATOM	3779	CG	LEU	X	250	51.261	39.851	69.379	0.00	0.00
ATOM	3780	HG	LEU	X	250	50.587	39.428	70.124	0.00	0.00
ATOM	3781	CD1	LEU	X	250	50.862	39.361	67.984	0.00	0.00
ATOM	3782	HD11	LEU	X	250	49.778	39.348	67.873	0.00	0.00
ATOM	3783	HD12	LEU	X	250	51.207	40.003	67.173	0.00	0.00
ATOM	3784	HD13	LEU	X	250	51.255	38.355	67.838	0.00	0.00
ATOM	3785	CD2	LEU	X	250	52.556	39.219	69.846	0.00	0.00
ATOM	3786	HD21	LEU	X	250	53.358	39.412	69.133	0.00	0.00
ATOM	3787	HD22	LEU	X	250	52.912	39.526	70.829	0.00	0.00
ATOM	3788	HD23	LEU	X	250	52.425	38.137	69.816	0.00	0.00
ATOM	3789	C	LEU	X	250	51.029	43.276	71.196	0.00	0.00
ATOM	3790	O	LEU	X	250	52.100	43.544	71.786	0.00	0.00
ATOM	3791	N	VAL	X	251	50.261	44.224	70.752	0.00	0.00
ATOM	3792	H	VAL	X	251	49.450	43.976	70.204	0.00	0.00
ATOM	3793	CA	VAL	X	251	50.614	45.648	70.918	0.00	0.00
ATOM	3794	HA	VAL	X	251	51.640	45.695	70.555	0.00	0.00
ATOM	3795	CB	VAL	X	251	49.804	46.358	69.861	0.00	0.00
ATOM	3796	HB	VAL	X	251	49.801	45.679	69.008	0.00	0.00
ATOM	3797	CG1	VAL	X	251	48.316	46.766	69.988	0.00	0.00
ATOM	3798	HG11	VAL	X	251	47.727	45.859	69.852	0.00	0.00
ATOM	3799	HG12	VAL	X	251	48.112	47.288	70.923	0.00	0.00
ATOM	3800	HG13	VAL	X	251	48.025	47.451	69.192	0.00	0.00
ATOM	3801	CG2	VAL	X	251	50.535	47.554	69.305	0.00	0.00
ATOM	3802	HG21	VAL	X	251	50.013	47.901	68.413	0.00	0.00
ATOM	3803	HG22	VAL	X	251	50.569	48.328	70.072	0.00	0.00
ATOM	3804	HG23	VAL	X	251	51.542	47.325	68.957	0.00	0.00
ATOM	3805	C	VAL	X	251	50.410	46.398	72.294	0.00	0.00
ATOM	3806	O	VAL	X	251	50.807	47.546	72.482	0.00	0.00
ATOM	3807	N	GLY	X	252	49.817	45.658	73.252	0.00	0.00
ATOM	3808	H	GLY	X	252	49.476	44.752	72.965	0.00	0.00
ATOM	3809	CA	GLY	X	252	49.664	46.000	74.671	0.00	0.00
ATOM	3810	HA2	GLY	X	252	49.945	45.101	75.387	0.00	0.00
ATOM	3811	HA3	GLY	X	252	50.228	46.919	74.893	0.00	0.00
ATOM	3812	C	GLY	X	252	48.238	46.300	75.037	0.00	0.00
ATOM	3813	O	GLY	X	252	48.064	46.700	76.188	0.00	0.00
ATOM	3814	N	CYX	X	253	47.269	46.064	74.156	0.00	0.00
ATOM	3815	H	CYX	X	253	47.420	45.549	73.300	0.00	0.00
ATOM	3816	CA	CYX	X	253	45.894	46.377	74.509	0.00	0.00
ATOM	3817	HA	CYX	X	253	45.943	47.253	75.155	0.00	0.00

ATOM	3818	CB	CYX	X	253	45.188	46.777	73.192	0.00	0.00
ATOM	3819	HB2	CYX	X	253	45.228	45.907	72.536	0.00	0.00
ATOM	3820	HB3	CYX	X	253	44.099	46.821	73.229	0.00	0.00
ATOM	3821	SG	CYX	X	253	45.726	48.265	72.223	0.00	0.00
ATOM	3822	C	CYX	X	253	45.066	45.192	75.062	0.00	0.00
ATOM	3823	O	CYX	X	253	45.332	43.980	74.888	0.00	0.00
ATOM	3824	N	PRO	X	254	43.995	45.569	75.823	0.00	0.00
ATOM	3825	CD	PRO	X	254	43.072	44.524	76.249	0.00	0.00
ATOM	3826	HD2	PRO	X	254	43.247	44.319	77.306	0.00	0.00
ATOM	3827	HD3	PRO	X	254	42.976	43.612	75.660	0.00	0.00
ATOM	3828	CG	PRO	X	254	41.785	45.307	76.242	0.00	0.00
ATOM	3829	HG2	PRO	X	254	40.999	44.850	76.843	0.00	0.00
ATOM	3830	HG3	PRO	X	254	41.320	45.235	75.258	0.00	0.00
ATOM	3831	CB	PRO	X	254	42.180	46.691	76.671	0.00	0.00
ATOM	3832	HB2	PRO	X	254	42.076	46.780	77.752	0.00	0.00
ATOM	3833	HB3	PRO	X	254	41.510	47.415	76.206	0.00	0.00
ATOM	3834	CA	PRO	X	254	43.607	46.864	76.309	0.00	0.00
ATOM	3835	HA	PRO	X	254	43.708	47.684	75.598	0.00	0.00
ATOM	3836	C	PRO	X	254	44.462	47.317	77.522	0.00	0.00
ATOM	3837	O	PRO	X	254	45.074	46.460	78.112	0.00	0.00
ATOM	3838	N	PRO	X	255	44.324	48.593	77.955	0.00	0.00
ATOM	3839	CD	PRO	X	255	43.587	49.636	77.249	0.00	0.00
ATOM	3840	HD2	PRO	X	255	42.521	49.440	77.133	0.00	0.00
ATOM	3841	HD3	PRO	X	255	44.091	49.925	76.326	0.00	0.00
ATOM	3842	CG	PRO	X	255	43.640	50.885	78.111	0.00	0.00
ATOM	3843	HG2	PRO	X	255	42.803	50.986	78.802	0.00	0.00
ATOM	3844	HG3	PRO	X	255	43.764	51.762	77.476	0.00	0.00
ATOM	3845	CB	PRO	X	255	44.836	50.632	79.021	0.00	0.00
ATOM	3846	HB2	PRO	X	255	44.811	51.046	80.029	0.00	0.00
ATOM	3847	HB3	PRO	X	255	45.761	50.896	78.509	0.00	0.00
ATOM	3848	CA	PRO	X	255	44.888	49.136	79.244	0.00	0.00
ATOM	3849	HA	PRO	X	255	45.926	48.816	79.337	0.00	0.00
ATOM	3850	C	PRO	X	255	44.089	48.623	80.468	0.00	0.00
ATOM	3851	O	PRO	X	255	42.908	48.319	80.315	0.00	0.00
ATOM	3852	N	GLY	X	256	44.720	48.596	81.664	0.00	0.00
ATOM	3853	H	GLY	X	256	45.685	48.883	81.740	0.00	0.00
ATOM	3854	CA	GLY	X	256	44.035	48.313	82.893	0.00	0.00
ATOM	3855	HA2	GLY	X	256	44.687	48.554	83.682	0.00	0.00
ATOM	3856	HA3	GLY	X	256	43.232	48.967	82.883	0.00	0.00
ATOM	3857	C	GLY	X	256	43.600	46.836	82.967	0.00	0.00
ATOM	3858	O	GLY	X	256	43.834	46.062	82.058	0.00	0.00
ATOM	3859	N	GLY	X	257	42.897	46.494	84.027	0.00	0.00
ATOM	3860	H	GLY	X	257	42.771	47.163	84.774	0.00	0.00
ATOM	3861	CA	GLY	X	257	42.154	45.202	84.085	0.00	0.00
ATOM	3862	HA2	GLY	X	257	42.690	44.494	83.456	0.00	0.00
ATOM	3863	HA3	GLY	X	257	42.117	44.641	85.109	0.00	0.00
ATOM	3864	C	GLY	X	257	40.701	45.373	83.548	0.00	0.00
ATOM	3865	O	GLY	X	257	40.185	46.500	83.503	0.00	0.00
ATOM	3866	N	THR	X	258	40.091	44.219	83.192	0.00	0.00
ATOM	3867	H	THR	X	258	40.695	43.419	83.066	0.00	0.00
ATOM	3868	CA	THR	X	258	38.666	44.036	82.833	0.00	0.00
ATOM	3869	HA	THR	X	258	38.507	43.032	82.440	0.00	0.00
ATOM	3870	CB	THR	X	258	37.721	43.962	84.085	0.00	0.00
ATOM	3871	HB	THR	X	258	36.800	43.632	83.604	0.00	0.00
ATOM	3872	CG2	THR	X	258	38.180	42.931	85.084	0.00	0.00
ATOM	3873	HG21	THR	X	258	38.112	41.884	84.789	0.00	0.00
ATOM	3874	HG22	THR	X	258	39.207	43.096	85.410	0.00	0.00
ATOM	3875	HG23	THR	X	258	37.523	42.911	85.954	0.00	0.00
ATOM	3876	OG1	THR	X	258	37.592	45.269	84.652	0.00	0.00
ATOM	3877	HG1	THR	X	258	36.929	45.013	85.297	0.00	0.00
ATOM	3878	C	THR	X	258	38.183	44.995	81.774	0.00	0.00
ATOM	3879	O	THR	X	258	36.982	44.996	81.527	0.00	0.00
ATOM	3880	N	GLY	X	259	39.048	45.694	81.022	0.00	0.00
ATOM	3881	H	GLY	X	259	40.010	45.723	81.330	0.00	0.00
ATOM	3882	CA	GLY	X	259	38.676	46.471	79.892	0.00	0.00
ATOM	3883	HA2	GLY	X	259	37.706	46.891	79.981	0.00	0.00
ATOM	3884	HA3	GLY	X	259	39.424	47.238	79.766	0.00	0.00
ATOM	3885	C	GLY	X	259	38.620	45.749	78.577	0.00	0.00
ATOM	3886	O	GLY	X	259	39.054	46.244	77.530	0.00	0.00
ATOM	3887	N	GLY	X	260	38.106	44.550	78.570	0.00	0.00

ATOM	3888	H	GLY	X	260	37.885	44.180	79.483	0.00	0.00
ATOM	3889	CA	GLY	X	260	38.012	43.592	77.481	0.00	0.00
ATOM	3890	HA2	GLY	X	260	38.944	43.717	76.882	0.00	0.00
ATOM	3891	HA3	GLY	X	260	38.051	42.606	77.974	0.00	0.00
ATOM	3892	C	GLY	X	260	36.856	43.805	76.486	0.00	0.00
ATOM	3893	O	GLY	X	260	36.846	42.998	75.530	0.00	0.00
ATOM	3894	N	ASN	X	261	36.042	44.899	76.534	0.00	0.00
ATOM	3895	H	ASN	X	261	36.081	45.489	77.352	0.00	0.00
ATOM	3896	CA	ASN	X	261	35.083	45.178	75.478	0.00	0.00
ATOM	3897	HA	ASN	X	261	34.584	44.243	75.223	0.00	0.00
ATOM	3898	CB	ASN	X	261	33.956	46.075	75.978	0.00	0.00
ATOM	3899	HB2	ASN	X	261	33.200	46.089	75.193	0.00	0.00
ATOM	3900	HB3	ASN	X	261	33.402	45.608	76.792	0.00	0.00
ATOM	3901	CG	ASN	X	261	34.422	47.448	76.404	0.00	0.00
ATOM	3902	OD1	ASN	X	261	34.509	48.359	75.603	0.00	0.00
ATOM	3903	ND2	ASN	X	261	34.718	47.748	77.642	0.00	0.00
ATOM	3904	HD21	ASN	X	261	35.054	48.680	77.835	0.00	0.00
ATOM	3905	HD22	ASN	X	261	34.598	47.060	78.372	0.00	0.00
ATOM	3906	C	ASN	X	261	35.798	45.794	74.231	0.00	0.00
ATOM	3907	O	ASN	X	261	36.856	46.325	74.363	0.00	0.00
ATOM	3908	N	ASP	X	262	35.175	45.704	73.018	0.00	0.00
ATOM	3909	H	ASP	X	262	34.283	45.230	73.013	0.00	0.00
ATOM	3910	CA	ASP	X	262	35.713	46.235	71.776	0.00	0.00
ATOM	3911	HA	ASP	X	262	36.675	45.744	71.631	0.00	0.00
ATOM	3912	CB	ASP	X	262	34.981	45.749	70.562	0.00	0.00
ATOM	3913	HB2	ASP	X	262	33.946	45.982	70.809	0.00	0.00
ATOM	3914	HB3	ASP	X	262	35.392	46.204	69.661	0.00	0.00
ATOM	3915	CG	ASP	X	262	35.165	44.223	70.346	0.00	0.00
ATOM	3916	OD1	ASP	X	262	34.302	43.572	69.702	0.00	0.00
ATOM	3917	OD2	ASP	X	262	36.252	43.772	70.766	0.00	0.00
ATOM	3918	C	ASP	X	262	35.864	47.782	71.706	0.00	0.00
ATOM	3919	O	ASP	X	262	36.797	48.248	71.089	0.00	0.00
ATOM	3920	N	THR	X	263	34.999	48.531	72.470	0.00	0.00
ATOM	3921	H	THR	X	263	34.356	48.026	73.062	0.00	0.00
ATOM	3922	CA	THR	X	263	34.999	50.008	72.536	0.00	0.00
ATOM	3923	HA	THR	X	263	34.935	50.391	71.518	0.00	0.00
ATOM	3924	CB	THR	X	263	33.869	50.618	73.335	0.00	0.00
ATOM	3925	HB	THR	X	263	33.970	50.391	74.396	0.00	0.00
ATOM	3926	CG2	THR	X	263	33.864	52.150	73.049	0.00	0.00
ATOM	3927	HG21	THR	X	263	34.743	52.739	73.311	0.00	0.00
ATOM	3928	HG22	THR	X	263	33.608	52.411	72.022	0.00	0.00
ATOM	3929	HG23	THR	X	263	33.025	52.505	73.648	0.00	0.00
ATOM	3930	OG1	THR	X	263	32.538	50.136	72.900	0.00	0.00
ATOM	3931	HG1	THR	X	263	32.586	49.185	73.019	0.00	0.00
ATOM	3932	C	THR	X	263	36.401	50.531	73.044	0.00	0.00
ATOM	3933	O	THR	X	263	36.949	51.435	72.465	0.00	0.00
ATOM	3934	N	GLU	X	264	36.832	49.871	74.140	0.00	0.00
ATOM	3935	H	GLU	X	264	36.271	49.104	74.480	0.00	0.00
ATOM	3936	CA	GLU	X	264	38.179	50.122	74.771	0.00	0.00
ATOM	3937	HA	GLU	X	264	38.588	51.132	74.749	0.00	0.00
ATOM	3938	CB	GLU	X	264	38.245	49.528	76.244	0.00	0.00
ATOM	3939	HB2	GLU	X	264	37.253	49.659	76.676	0.00	0.00
ATOM	3940	HB3	GLU	X	264	38.449	48.457	76.238	0.00	0.00
ATOM	3941	CG	GLU	X	264	39.264	50.256	77.180	0.00	0.00
ATOM	3942	HG2	GLU	X	264	39.328	49.668	78.095	0.00	0.00
ATOM	3943	HG3	GLU	X	264	40.282	50.220	76.792	0.00	0.00
ATOM	3944	CD	GLU	X	264	38.875	51.662	77.566	0.00	0.00
ATOM	3945	OE1	GLU	X	264	38.282	51.756	78.632	0.00	0.00
ATOM	3946	OE2	GLU	X	264	39.490	52.598	76.978	0.00	0.00
ATOM	3947	C	GLU	X	264	39.259	49.406	73.954	0.00	0.00
ATOM	3948	O	GLU	X	264	40.304	49.962	73.799	0.00	0.00
ATOM	3949	N	LEU	X	265	39.101	48.191	73.417	0.00	0.00
ATOM	3950	H	LEU	X	265	38.271	47.664	73.646	0.00	0.00
ATOM	3951	CA	LEU	X	265	40.199	47.471	72.725	0.00	0.00
ATOM	3952	HA	LEU	X	265	41.096	47.477	73.344	0.00	0.00
ATOM	3953	CB	LEU	X	265	39.739	45.954	72.572	0.00	0.00
ATOM	3954	HB2	LEU	X	265	39.603	45.615	73.599	0.00	0.00
ATOM	3955	HB3	LEU	X	265	38.717	45.774	72.241	0.00	0.00
ATOM	3956	CG	LEU	X	265	40.737	44.995	71.914	0.00	0.00
ATOM	3957	HG	LEU	X	265	41.716	45.470	71.980	0.00	0.00

ATOM	3958	CD1	LEU	X	265	40.747	43.624	72.570	0.00	0.00
ATOM	3959	HD11	LEU	X	265	40.994	43.715	73.628	0.00	0.00
ATOM	3960	HD12	LEU	X	265	39.735	43.219	72.568	0.00	0.00
ATOM	3961	HD13	LEU	X	265	41.443	42.971	72.043	0.00	0.00
ATOM	3962	CD2	LEU	X	265	40.341	44.824	70.465	0.00	0.00
ATOM	3963	HD21	LEU	X	265	40.331	45.826	70.035	0.00	0.00
ATOM	3964	HD22	LEU	X	265	41.170	44.321	69.967	0.00	0.00
ATOM	3965	HD23	LEU	X	265	39.311	44.495	70.330	0.00	0.00
ATOM	3966	C	LEU	X	265	40.481	48.161	71.467	0.00	0.00
ATOM	3967	O	LEU	X	265	41.666	48.379	71.187	0.00	0.00
ATOM	3968	N	VAL	X	266	39.489	48.444	70.582	0.00	0.00
ATOM	3969	H	VAL	X	266	38.554	48.315	70.942	0.00	0.00
ATOM	3970	CA	VAL	X	266	39.791	49.120	69.236	0.00	0.00
ATOM	3971	HA	VAL	X	266	40.727	48.662	68.915	0.00	0.00
ATOM	3972	CB	VAL	X	266	38.878	48.857	68.006	0.00	0.00
ATOM	3973	HB	VAL	X	266	38.020	49.528	67.972	0.00	0.00
ATOM	3974	CG1	VAL	X	266	39.598	48.907	66.622	0.00	0.00
ATOM	3975	HG11	VAL	X	266	40.280	48.059	66.690	0.00	0.00
ATOM	3976	HG12	VAL	X	266	38.892	48.759	65.805	0.00	0.00
ATOM	3977	HG13	VAL	X	266	40.205	49.797	66.461	0.00	0.00
ATOM	3978	CG2	VAL	X	266	38.322	47.419	68.040	0.00	0.00
ATOM	3979	HG21	VAL	X	266	37.614	47.273	67.224	0.00	0.00
ATOM	3980	HG22	VAL	X	266	39.185	46.758	67.967	0.00	0.00
ATOM	3981	HG23	VAL	X	266	37.783	47.246	68.972	0.00	0.00
ATOM	3982	C	VAL	X	266	40.094	50.641	69.361	0.00	0.00
ATOM	3983	O	VAL	X	266	40.692	51.261	68.500	0.00	0.00
ATOM	3984	N	ALA	X	267	39.681	51.282	70.466	0.00	0.00
ATOM	3985	H	ALA	X	267	39.141	50.773	71.152	0.00	0.00
ATOM	3986	CA	ALA	X	267	40.089	52.666	70.635	0.00	0.00
ATOM	3987	HA	ALA	X	267	39.904	53.293	69.762	0.00	0.00
ATOM	3988	CB	ALA	X	267	39.210	53.190	71.785	0.00	0.00
ATOM	3989	HB1	ALA	X	267	39.395	52.634	72.705	0.00	0.00
ATOM	3990	HB2	ALA	X	267	39.471	54.222	72.020	0.00	0.00
ATOM	3991	HB3	ALA	X	267	38.167	53.057	71.497	0.00	0.00
ATOM	3992	C	ALA	X	267	41.586	52.680	71.084	0.00	0.00
ATOM	3993	O	ALA	X	267	42.451	53.431	70.590	0.00	0.00
ATOM	3994	N	CYX	X	268	42.051	51.616	71.759	0.00	0.00
ATOM	3995	H	CYX	X	268	41.439	51.037	72.317	0.00	0.00
ATOM	3996	CA	CYX	X	268	43.511	51.332	72.016	0.00	0.00
ATOM	3997	HA	CYX	X	268	43.979	52.263	72.336	0.00	0.00
ATOM	3998	CB	CYX	X	268	43.601	50.272	73.150	0.00	0.00
ATOM	3999	HB2	CYX	X	268	43.281	50.709	74.096	0.00	0.00
ATOM	4000	HB3	CYX	X	268	42.890	49.457	73.014	0.00	0.00
ATOM	4001	SG	CYX	X	268	45.300	49.774	73.473	0.00	0.00
ATOM	4002	C	CYX	X	268	44.285	50.932	70.797	0.00	0.00
ATOM	4003	O	CYX	X	268	45.358	51.419	70.512	0.00	0.00
ATOM	4004	N	LEU	X	269	43.596	50.223	69.905	0.00	0.00
ATOM	4005	H	LEU	X	269	42.832	49.668	70.263	0.00	0.00
ATOM	4006	CA	LEU	X	269	44.194	49.773	68.688	0.00	0.00
ATOM	4007	HA	LEU	X	269	45.227	49.601	68.992	0.00	0.00
ATOM	4008	CB	LEU	X	269	43.438	48.573	68.101	0.00	0.00
ATOM	4009	HB2	LEU	X	269	43.077	47.907	68.885	0.00	0.00
ATOM	4010	HB3	LEU	X	269	42.581	48.943	67.539	0.00	0.00
ATOM	4011	CG	LEU	X	269	44.280	47.608	67.181	0.00	0.00
ATOM	4012	HG	LEU	X	269	44.839	48.223	66.477	0.00	0.00
ATOM	4013	CD1	LEU	X	269	45.260	46.868	68.047	0.00	0.00
ATOM	4014	HD11	LEU	X	269	45.946	46.345	67.380	0.00	0.00
ATOM	4015	HD12	LEU	X	269	45.896	47.496	68.670	0.00	0.00
ATOM	4016	HD13	LEU	X	269	44.778	46.102	68.655	0.00	0.00
ATOM	4017	CD2	LEU	X	269	43.501	46.652	66.310	0.00	0.00
ATOM	4018	HD21	LEU	X	269	42.749	47.152	65.699	0.00	0.00
ATOM	4019	HD22	LEU	X	269	44.242	46.135	65.701	0.00	0.00
ATOM	4020	HD23	LEU	X	269	43.058	45.799	66.824	0.00	0.00
ATOM	4021	C	LEU	X	269	44.225	50.974	67.732	0.00	0.00
ATOM	4022	O	LEU	X	269	44.868	50.836	66.649	0.00	0.00
ATOM	4023	N	ARG	X	270	43.621	52.130	67.978	0.00	0.00
ATOM	4024	H	ARG	X	270	42.957	52.211	68.735	0.00	0.00
ATOM	4025	CA	ARG	X	270	43.819	53.386	67.247	0.00	0.00
ATOM	4026	HA	ARG	X	270	44.183	53.179	66.240	0.00	0.00
ATOM	4027	CB	ARG	X	270	42.503	54.002	67.078	0.00	0.00

ATOM	4028	HB2	ARG	X	270	41.863	53.898	67.954	0.00	0.00
ATOM	4029	HB3	ARG	X	270	42.562	55.082	66.938	0.00	0.00
ATOM	4030	CG	ARG	X	270	41.775	53.370	65.898	0.00	0.00
ATOM	4031	HG2	ARG	X	270	42.469	53.588	65.086	0.00	0.00
ATOM	4032	HG3	ARG	X	270	41.716	52.284	65.965	0.00	0.00
ATOM	4033	CD	ARG	X	270	40.433	54.111	65.572	0.00	0.00
ATOM	4034	HD2	ARG	X	270	40.526	55.189	65.704	0.00	0.00
ATOM	4035	HD3	ARG	X	270	40.243	54.034	64.502	0.00	0.00
ATOM	4036	NE	ARG	X	270	39.294	53.534	66.296	0.00	0.00
ATOM	4037	HE	ARG	X	270	39.113	53.875	67.229	0.00	0.00
ATOM	4038	CZ	ARG	X	270	38.463	52.548	65.805	0.00	0.00
ATOM	4039	NH1	ARG	X	270	38.387	52.176	64.530	0.00	0.00
ATOM	4040	HH11	ARG	X	270	38.900	52.668	63.812	0.00	0.00
ATOM	4041	HH12	ARG	X	270	37.729	51.455	64.270	0.00	0.00
ATOM	4042	NH2	ARG	X	270	37.564	51.983	66.632	0.00	0.00
ATOM	4043	HH21	ARG	X	270	37.466	52.229	67.607	0.00	0.00
ATOM	4044	HH22	ARG	X	270	36.960	51.290	66.214	0.00	0.00
ATOM	4045	C	ARG	X	270	44.781	54.327	67.959	0.00	0.00
ATOM	4046	O	ARG	X	270	45.626	54.933	67.313	0.00	0.00
ATOM	4047	N	THR	X	271	44.817	54.400	69.291	0.00	0.00
ATOM	4048	H	THR	X	271	44.022	54.013	69.779	0.00	0.00
ATOM	4049	CA	THR	X	271	45.865	55.152	70.074	0.00	0.00
ATOM	4050	HA	THR	X	271	45.989	56.043	69.459	0.00	0.00
ATOM	4051	CB	THR	X	271	45.329	55.559	71.498	0.00	0.00
ATOM	4052	HB	THR	X	271	46.030	56.311	71.862	0.00	0.00
ATOM	4053	CG2	THR	X	271	44.065	56.444	71.465	0.00	0.00
ATOM	4054	HG21	THR	X	271	44.325	57.399	71.008	0.00	0.00
ATOM	4055	HG22	THR	X	271	43.236	55.982	70.929	0.00	0.00
ATOM	4056	HG23	THR	X	271	43.795	56.659	72.499	0.00	0.00
ATOM	4057	OG1	THR	X	271	45.256	54.456	72.358	0.00	0.00
ATOM	4058	HG1	THR	X	271	45.554	54.816	73.197	0.00	0.00
ATOM	4059	C	THR	X	271	47.218	54.571	70.207	0.00	0.00
ATOM	4060	O	THR	X	271	48.153	55.399	70.148	0.00	0.00
ATOM	4061	N	ARG	X	272	47.361	53.246	70.076	0.00	0.00
ATOM	4062	H	ARG	X	272	46.512	52.701	70.114	0.00	0.00
ATOM	4063	CA	ARG	X	272	48.634	52.710	69.998	0.00	0.00
ATOM	4064	HA	ARG	X	272	49.335	53.134	70.717	0.00	0.00
ATOM	4065	CB	ARG	X	272	48.592	51.150	70.326	0.00	0.00
ATOM	4066	HB2	ARG	X	272	47.910	50.743	69.580	0.00	0.00
ATOM	4067	HB3	ARG	X	272	49.491	50.683	69.924	0.00	0.00
ATOM	4068	CG	ARG	X	272	48.279	50.795	71.805	0.00	0.00
ATOM	4069	HG2	ARG	X	272	47.425	51.387	72.133	0.00	0.00
ATOM	4070	HG3	ARG	X	272	48.139	49.721	71.924	0.00	0.00
ATOM	4071	CD	ARG	X	272	49.367	51.151	72.759	0.00	0.00
ATOM	4072	HD2	ARG	X	272	50.258	50.576	72.505	0.00	0.00
ATOM	4073	HD3	ARG	X	272	49.598	52.190	72.526	0.00	0.00
ATOM	4074	NE	ARG	X	272	48.958	51.046	74.168	0.00	0.00
ATOM	4075	HE	ARG	X	272	48.073	51.455	74.432	0.00	0.00
ATOM	4076	CZ	ARG	X	272	49.551	50.348	75.138	0.00	0.00
ATOM	4077	NH1	ARG	X	272	50.684	49.612	74.997	0.00	0.00
ATOM	4078	HH11	ARG	X	272	51.271	49.801	74.197	0.00	0.00
ATOM	4079	HH12	ARG	X	272	50.916	49.095	75.833	0.00	0.00
ATOM	4080	NH2	ARG	X	272	48.984	50.413	76.346	0.00	0.00
ATOM	4081	HH21	ARG	X	272	48.184	51.022	76.439	0.00	0.00
ATOM	4082	HH22	ARG	X	272	49.207	49.818	77.130	0.00	0.00
ATOM	4083	C	ARG	X	272	49.148	52.984	68.560	0.00	0.00
ATOM	4084	O	ARG	X	272	48.386	52.916	67.609	0.00	0.00
ATOM	4085	N	PRO	X	273	50.395	53.526	68.386	0.00	0.00
ATOM	4086	CD	PRO	X	273	51.236	54.066	69.436	0.00	0.00
ATOM	4087	HD2	PRO	X	273	51.420	53.256	70.142	0.00	0.00
ATOM	4088	HD3	PRO	X	273	50.661	54.813	69.983	0.00	0.00
ATOM	4089	CG	PRO	X	273	52.559	54.559	68.903	0.00	0.00
ATOM	4090	HG2	PRO	X	273	53.329	53.788	68.893	0.00	0.00
ATOM	4091	HG3	PRO	X	273	52.962	55.454	69.377	0.00	0.00
ATOM	4092	CB	PRO	X	273	52.169	54.900	67.468	0.00	0.00
ATOM	4093	HB2	PRO	X	273	52.961	54.737	66.737	0.00	0.00
ATOM	4094	HB3	PRO	X	273	51.815	55.926	67.362	0.00	0.00
ATOM	4095	CA	PRO	X	273	50.891	54.102	67.109	0.00	0.00
ATOM	4096	HA	PRO	X	273	50.195	54.854	66.736	0.00	0.00
ATOM	4097	C	PRO	X	273	51.070	53.092	65.975	0.00	0.00

ATOM	4098	O	PRO	X	273	51.356	51.901	66.143	0.00	0.00
ATOM	4099	N	ALA	X	274	50.910	53.544	64.745	0.00	0.00
ATOM	4100	H	ALA	X	274	50.548	54.480	64.629	0.00	0.00
ATOM	4101	CA	ALA	X	274	50.895	52.630	63.511	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.048	51.964	63.673	0.00	0.00
ATOM	4103	CB	ALA	X	274	50.649	53.454	62.296	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.610	53.706	62.507	0.00	0.00
ATOM	4105	HB2	ALA	X	274	51.291	54.325	62.162	0.00	0.00
ATOM	4106	HB3	ALA	X	274	50.778	52.833	61.409	0.00	0.00
ATOM	4107	C	ALA	X	274	52.176	51.715	63.347	0.00	0.00
ATOM	4108	O	ALA	X	274	52.104	50.541	62.924	0.00	0.00
ATOM	4109	N	GLN	X	275	53.331	52.324	63.668	0.00	0.00
ATOM	4110	H	GLN	X	275	53.255	53.273	64.006	0.00	0.00
ATOM	4111	CA	GLN	X	275	54.640	51.692	63.662	0.00	0.00
ATOM	4112	HA	GLN	X	275	54.879	51.356	62.653	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.771	52.736	64.058	0.00	0.00
ATOM	4114	HB2	GLN	X	275	55.563	53.254	64.994	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.592	52.031	64.196	0.00	0.00
ATOM	4116	CG	GLN	X	275	56.174	53.696	62.923	0.00	0.00
ATOM	4117	HG2	GLN	X	275	56.900	53.128	62.342	0.00	0.00
ATOM	4118	HG3	GLN	X	275	55.333	54.075	62.343	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.017	54.865	63.514	0.00	0.00
ATOM	4120	OE1	GLN	X	275	58.236	54.923	63.464	0.00	0.00
ATOM	4121	NE2	GLN	X	275	56.385	55.894	64.066	0.00	0.00
ATOM	4122	HE21	GLN	X	275	57.023	56.635	64.321	0.00	0.00
ATOM	4123	HE22	GLN	X	275	55.380	55.962	64.141	0.00	0.00
ATOM	4124	C	GLN	X	275	54.628	50.394	64.511	0.00	0.00
ATOM	4125	O	GLN	X	275	54.741	49.305	64.004	0.00	0.00
ATOM	4126	N	VAL	X	276	54.374	50.492	65.810	0.00	0.00
ATOM	4127	H	VAL	X	276	54.417	51.419	66.208	0.00	0.00
ATOM	4128	CA	VAL	X	276	54.287	49.319	66.651	0.00	0.00
ATOM	4129	HA	VAL	X	276	55.227	48.770	66.585	0.00	0.00
ATOM	4130	CB	VAL	X	276	54.241	49.757	68.146	0.00	0.00
ATOM	4131	HB	VAL	X	276	54.990	50.514	68.374	0.00	0.00
ATOM	4132	CG1	VAL	X	276	52.914	50.372	68.618	0.00	0.00
ATOM	4133	HG11	VAL	X	276	52.123	49.622	68.605	0.00	0.00
ATOM	4134	HG12	VAL	X	276	53.005	50.798	69.617	0.00	0.00
ATOM	4135	HG13	VAL	X	276	52.627	51.206	67.977	0.00	0.00
ATOM	4136	CG2	VAL	X	276	54.567	48.602	69.105	0.00	0.00
ATOM	4137	HG21	VAL	X	276	55.523	48.142	68.852	0.00	0.00
ATOM	4138	HG22	VAL	X	276	54.604	48.959	70.134	0.00	0.00
ATOM	4139	HG23	VAL	X	276	53.771	47.875	68.942	0.00	0.00
ATOM	4140	C	VAL	X	276	53.140	48.319	66.346	0.00	0.00
ATOM	4141	O	VAL	X	276	53.228	47.098	66.515	0.00	0.00
ATOM	4142	N	LEU	X	277	52.088	48.772	65.622	0.00	0.00
ATOM	4143	H	LEU	X	277	52.234	49.735	65.356	0.00	0.00
ATOM	4144	CA	LEU	X	277	50.988	47.922	65.125	0.00	0.00
ATOM	4145	HA	LEU	X	277	50.631	47.127	65.779	0.00	0.00
ATOM	4146	CB	LEU	X	277	49.722	48.758	64.868	0.00	0.00
ATOM	4147	HB2	LEU	X	277	49.569	49.322	65.788	0.00	0.00
ATOM	4148	HB3	LEU	X	277	49.972	49.520	64.130	0.00	0.00
ATOM	4149	CG	LEU	X	277	48.425	48.137	64.400	0.00	0.00
ATOM	4150	HG	LEU	X	277	47.793	48.982	64.126	0.00	0.00
ATOM	4151	CD1	LEU	X	277	48.489	47.356	63.024	0.00	0.00
ATOM	4152	HD11	LEU	X	277	49.064	46.431	63.059	0.00	0.00
ATOM	4153	HD12	LEU	X	277	47.489	47.043	62.724	0.00	0.00
ATOM	4154	HD13	LEU	X	277	48.931	48.107	62.369	0.00	0.00
ATOM	4155	CD2	LEU	X	277	47.895	47.144	65.421	0.00	0.00
ATOM	4156	HD21	LEU	X	277	46.924	46.841	65.029	0.00	0.00
ATOM	4157	HD22	LEU	X	277	48.666	46.407	65.643	0.00	0.00
ATOM	4158	HD23	LEU	X	277	47.731	47.764	66.303	0.00	0.00
ATOM	4159	C	LEU	X	277	51.520	47.173	63.935	0.00	0.00
ATOM	4160	O	LEU	X	277	51.525	45.995	64.045	0.00	0.00
ATOM	4161	N	VAL	X	278	51.848	47.791	62.788	0.00	0.00
ATOM	4162	H	VAL	X	278	51.859	48.801	62.822	0.00	0.00
ATOM	4163	CA	VAL	X	278	52.424	47.084	61.539	0.00	0.00
ATOM	4164	HA	VAL	X	278	51.605	46.458	61.183	0.00	0.00
ATOM	4165	CB	VAL	X	278	52.605	48.108	60.439	0.00	0.00
ATOM	4166	HB	VAL	X	278	51.791	48.833	60.460	0.00	0.00
ATOM	4167	CG1	VAL	X	278	53.887	48.854	60.656	0.00	0.00

ATOM	4168	HG11	VAL	X	278	53.982	49.713	59.993	0.00	0.00
ATOM	4169	HG12	VAL	X	278	53.967	49.118	61.711	0.00	0.00
ATOM	4170	HG13	VAL	X	278	54.673	48.151	60.380	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.497	47.498	59.027	0.00	0.00
ATOM	4172	HG21	VAL	X	278	51.472	47.134	58.966	0.00	0.00
ATOM	4173	HG22	VAL	X	278	52.705	48.264	58.279	0.00	0.00
ATOM	4174	HG23	VAL	X	278	53.248	46.720	58.889	0.00	0.00
ATOM	4175	C	VAL	X	278	53.647	46.145	61.795	0.00	0.00
ATOM	4176	O	VAL	X	278	53.887	45.241	61.010	0.00	0.00
ATOM	4177	N	ASN	X	279	54.364	46.405	62.846	0.00	0.00
ATOM	4178	H	ASN	X	279	54.050	47.214	63.363	0.00	0.00
ATOM	4179	CA	ASN	X	279	55.449	45.575	63.390	0.00	0.00
ATOM	4180	HA	ASN	X	279	56.142	45.353	62.579	0.00	0.00
ATOM	4181	CB	ASN	X	279	56.232	46.407	64.456	0.00	0.00
ATOM	4182	HB2	ASN	X	279	56.869	47.054	63.852	0.00	0.00
ATOM	4183	HB3	ASN	X	279	55.515	46.963	65.060	0.00	0.00
ATOM	4184	CG	ASN	X	279	57.078	45.541	65.402	0.00	0.00
ATOM	4185	OD1	ASN	X	279	58.053	44.923	65.051	0.00	0.00
ATOM	4186	ND2	ASN	X	279	56.630	45.340	66.640	0.00	0.00
ATOM	4187	HD21	ASN	X	279	57.055	44.550	67.105	0.00	0.00
ATOM	4188	HD22	ASN	X	279	55.839	45.783	67.084	0.00	0.00
ATOM	4189	C	ASN	X	279	54.845	44.195	63.837	0.00	0.00
ATOM	4190	O	ASN	X	279	55.429	43.098	63.523	0.00	0.00
ATOM	4191	N	HIE	X	280	53.708	44.207	64.621	0.00	0.00
ATOM	4192	H	HIE	X	280	53.189	45.029	64.894	0.00	0.00
ATOM	4193	CA	HIE	X	280	53.163	42.994	65.159	0.00	0.00
ATOM	4194	HA	HIE	X	280	53.998	42.311	65.309	0.00	0.00
ATOM	4195	CB	HIE	X	280	52.377	43.319	66.495	0.00	0.00
ATOM	4196	HB2	HIE	X	280	51.727	44.165	66.274	0.00	0.00
ATOM	4197	HB3	HIE	X	280	51.931	42.361	66.764	0.00	0.00
ATOM	4198	CG	HIE	X	280	53.367	43.650	67.629	0.00	0.00
ATOM	4199	ND1	HIE	X	280	54.474	42.781	67.943	0.00	0.00
ATOM	4200	CE1	HIE	X	280	55.142	43.405	68.980	0.00	0.00
ATOM	4201	HE1	HIE	X	280	55.827	42.929	69.666	0.00	0.00
ATOM	4202	NE2	HIE	X	280	54.528	44.625	69.220	0.00	0.00
ATOM	4203	HE2	HIE	X	280	54.611	45.149	70.080	0.00	0.00
ATOM	4204	CD2	HIE	X	280	53.444	44.786	68.395	0.00	0.00
ATOM	4205	HD2	HIE	X	280	52.870	45.700	68.350	0.00	0.00
ATOM	4206	C	HIE	X	280	52.200	42.328	64.172	0.00	0.00
ATOM	4207	O	HIE	X	280	51.671	41.241	64.446	0.00	0.00
ATOM	4208	N	GLU	X	281	51.810	43.042	63.120	0.00	0.00
ATOM	4209	H	GLU	X	281	52.176	43.980	63.036	0.00	0.00
ATOM	4210	CA	GLU	X	281	50.793	42.592	62.137	0.00	0.00
ATOM	4211	HA	GLU	X	281	49.879	42.465	62.718	0.00	0.00
ATOM	4212	CB	GLU	X	281	50.722	43.584	60.958	0.00	0.00
ATOM	4213	HB2	GLU	X	281	50.543	44.584	61.355	0.00	0.00
ATOM	4214	HB3	GLU	X	281	51.644	43.620	60.378	0.00	0.00
ATOM	4215	CG	GLU	X	281	49.435	43.411	60.110	0.00	0.00
ATOM	4216	HG2	GLU	X	281	49.334	42.341	59.931	0.00	0.00
ATOM	4217	HG3	GLU	X	281	48.552	43.731	60.664	0.00	0.00
ATOM	4218	CD	GLU	X	281	49.569	44.099	58.742	0.00	0.00
ATOM	4219	OE1	GLU	X	281	49.251	45.277	58.507	0.00	0.00
ATOM	4220	OE2	GLU	X	281	49.926	43.294	57.853	0.00	0.00
ATOM	4221	C	GLU	X	281	51.270	41.263	61.510	0.00	0.00
ATOM	4222	O	GLU	X	281	50.588	40.273	61.438	0.00	0.00
ATOM	4223	N	TRP	X	282	52.553	41.240	61.075	0.00	0.00
ATOM	4224	H	TRP	X	282	53.080	42.095	60.968	0.00	0.00
ATOM	4225	CA	TRP	X	282	53.170	40.080	60.441	0.00	0.00
ATOM	4226	HA	TRP	X	282	52.409	39.635	59.799	0.00	0.00
ATOM	4227	CB	TRP	X	282	54.231	40.521	59.537	0.00	0.00
ATOM	4228	HB2	TRP	X	282	54.680	41.459	59.862	0.00	0.00
ATOM	4229	HB3	TRP	X	282	54.949	39.703	59.468	0.00	0.00
ATOM	4230	CG	TRP	X	282	53.592	40.837	58.172	0.00	0.00
ATOM	4231	CD1	TRP	X	282	52.767	41.843	57.881	0.00	0.00
ATOM	4232	HD1	TRP	X	282	52.445	42.639	58.536	0.00	0.00
ATOM	4233	NE1	TRP	X	282	52.283	41.631	56.600	0.00	0.00
ATOM	4234	HE1	TRP	X	282	51.650	42.217	56.074	0.00	0.00
ATOM	4235	CE2	TRP	X	282	52.584	40.439	56.054	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	52.300	39.785	54.823	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	51.682	40.296	54.099	0.00	0.00

ATOM	4238	CH2	TRP	X	282	52.946	38.583	54.541	0.00	0.00
ATOM	4239	HH2	TRP	X	282	52.830	38.101	53.581	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	53.824	38.056	55.471	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	54.206	37.059	55.307	0.00	0.00
ATOM	4242	CE3	TRP	X	282	54.158	38.731	56.625	0.00	0.00
ATOM	4243	HE3	TRP	X	282	54.728	38.229	57.393	0.00	0.00
ATOM	4244	CD2	TRP	X	282	53.564	39.938	56.956	0.00	0.00
ATOM	4245	C	TRP	X	282	53.566	39.002	61.446	0.00	0.00
ATOM	4246	O	TRP	X	282	54.163	37.971	61.011	0.00	0.00
ATOM	4247	N	HIE	X	283	53.217	39.114	62.782	0.00	0.00
ATOM	4248	H	HIE	X	283	52.884	40.026	63.061	0.00	0.00
ATOM	4249	CA	HIE	X	283	53.263	38.172	63.899	0.00	0.00
ATOM	4250	HA	HIE	X	283	53.962	37.364	63.682	0.00	0.00
ATOM	4251	CB	HIE	X	283	53.790	38.811	65.178	0.00	0.00
ATOM	4252	HB2	HIE	X	283	53.310	39.785	65.274	0.00	0.00
ATOM	4253	HB3	HIE	X	283	53.609	38.176	66.045	0.00	0.00
ATOM	4254	CG	HIE	X	283	55.260	39.013	65.122	0.00	0.00
ATOM	4255	ND1	HIE	X	283	56.273	38.277	64.473	0.00	0.00
ATOM	4256	CE1	HIE	X	283	57.422	38.948	64.633	0.00	0.00
ATOM	4257	HE1	HIE	X	283	58.402	38.509	64.515	0.00	0.00
ATOM	4258	NE2	HIE	X	283	57.249	40.043	65.365	0.00	0.00
ATOM	4259	HE2	HIE	X	283	58.066	40.508	65.735	0.00	0.00
ATOM	4260	CD2	HIE	X	283	55.928	40.126	65.615	0.00	0.00
ATOM	4261	HD2	HIE	X	283	55.409	40.917	66.136	0.00	0.00
ATOM	4262	C	HIE	X	283	51.843	37.530	64.123	0.00	0.00
ATOM	4263	O	HIE	X	283	51.698	36.407	64.811	0.00	0.00
ATOM	4264	N	VAL	X	284	50.813	38.095	63.427	0.00	0.00
ATOM	4265	H	VAL	X	284	51.033	38.901	62.861	0.00	0.00
ATOM	4266	CA	VAL	X	284	49.528	37.520	63.142	0.00	0.00
ATOM	4267	HA	VAL	X	284	49.494	36.535	63.608	0.00	0.00
ATOM	4268	CB	VAL	X	284	48.296	38.278	63.627	0.00	0.00
ATOM	4269	HB	VAL	X	284	47.384	37.743	63.364	0.00	0.00
ATOM	4270	CG1	VAL	X	284	48.283	38.474	65.164	0.00	0.00
ATOM	4271	HG11	VAL	X	284	48.936	39.245	65.573	0.00	0.00
ATOM	4272	HG12	VAL	X	284	47.305	38.817	65.502	0.00	0.00
ATOM	4273	HG13	VAL	X	284	48.567	37.533	65.635	0.00	0.00
ATOM	4274	CG2	VAL	X	284	48.161	39.662	63.082	0.00	0.00
ATOM	4275	HG21	VAL	X	284	47.307	40.164	63.537	0.00	0.00
ATOM	4276	HG22	VAL	X	284	49.075	40.191	63.354	0.00	0.00
ATOM	4277	HG23	VAL	X	284	47.885	39.774	62.033	0.00	0.00
ATOM	4278	C	VAL	X	284	49.384	37.118	61.593	0.00	0.00
ATOM	4279	O	VAL	X	284	48.353	37.139	60.993	0.00	0.00
ATOM	4280	N	LEU	X	285	50.409	36.440	61.087	0.00	0.00
ATOM	4281	H	LEU	X	285	51.175	36.359	61.741	0.00	0.00
ATOM	4282	CA	LEU	X	285	50.468	35.616	59.837	0.00	0.00
ATOM	4283	HA	LEU	X	285	49.857	36.120	59.088	0.00	0.00
ATOM	4284	CB	LEU	X	285	51.936	35.561	59.339	0.00	0.00
ATOM	4285	HB2	LEU	X	285	52.342	36.566	59.457	0.00	0.00
ATOM	4286	HB3	LEU	X	285	52.534	34.948	60.012	0.00	0.00
ATOM	4287	CG	LEU	X	285	52.116	35.119	57.874	0.00	0.00
ATOM	4288	HG	LEU	X	285	51.619	34.157	57.752	0.00	0.00
ATOM	4289	CD1	LEU	X	285	51.456	36.048	56.885	0.00	0.00
ATOM	4290	HD11	LEU	X	285	51.763	37.071	57.100	0.00	0.00
ATOM	4291	HD12	LEU	X	285	51.797	35.782	55.884	0.00	0.00
ATOM	4292	HD13	LEU	X	285	50.370	35.971	56.942	0.00	0.00
ATOM	4293	CD2	LEU	X	285	53.601	34.936	57.588	0.00	0.00
ATOM	4294	HD21	LEU	X	285	53.948	35.963	57.697	0.00	0.00
ATOM	4295	HD22	LEU	X	285	54.046	34.202	58.260	0.00	0.00
ATOM	4296	HD23	LEU	X	285	53.761	34.480	56.610	0.00	0.00
ATOM	4297	C	LEU	X	285	49.977	34.231	60.125	0.00	0.00
ATOM	4298	O	LEU	X	285	50.496	33.683	61.145	0.00	0.00
ATOM	4299	N	PRO	X	286	49.189	33.546	59.282	0.00	0.00
ATOM	4300	CD	PRO	X	286	48.327	34.074	58.263	0.00	0.00
ATOM	4301	HD2	PRO	X	286	48.912	34.088	57.343	0.00	0.00
ATOM	4302	HD3	PRO	X	286	47.870	35.005	58.600	0.00	0.00
ATOM	4303	CG	PRO	X	286	47.239	33.050	57.990	0.00	0.00
ATOM	4304	HG2	PRO	X	286	46.923	33.157	56.953	0.00	0.00
ATOM	4305	HG3	PRO	X	286	46.415	33.000	58.701	0.00	0.00
ATOM	4306	CB	PRO	X	286	47.919	31.717	58.270	0.00	0.00
ATOM	4307	HB2	PRO	X	286	48.394	31.441	57.328	0.00	0.00

ATOM	4308	HB3	PRO	X	286	47.211	30.955	58.595	0.00	0.00
ATOM	4309	CA	PRO	X	286	48.963	32.108	59.313	0.00	0.00
ATOM	4310	HA	PRO	X	286	48.531	31.939	60.300	0.00	0.00
ATOM	4311	C	PRO	X	286	50.139	31.122	59.353	0.00	0.00
ATOM	4312	O	PRO	X	286	51.328	31.483	59.218	0.00	0.00
ATOM	4313	N	GLN	X	287	49.899	29.826	59.720	0.00	0.00
ATOM	4314	H	GLN	X	287	48.968	29.445	59.808	0.00	0.00
ATOM	4315	CA	GLN	X	287	50.945	28.814	60.050	0.00	0.00
ATOM	4316	HA	GLN	X	287	51.947	29.008	59.668	0.00	0.00
ATOM	4317	CB	GLN	X	287	51.031	28.647	61.573	0.00	0.00
ATOM	4318	HB2	GLN	X	287	50.009	28.677	61.950	0.00	0.00
ATOM	4319	HB3	GLN	X	287	51.521	27.692	61.763	0.00	0.00
ATOM	4320	CG	GLN	X	287	51.700	29.820	62.298	0.00	0.00
ATOM	4321	HG2	GLN	X	287	52.715	29.985	61.934	0.00	0.00
ATOM	4322	HG3	GLN	X	287	51.120	30.714	62.068	0.00	0.00
ATOM	4323	CD	GLN	X	287	51.665	29.740	63.804	0.00	0.00
ATOM	4324	OE1	GLN	X	287	52.628	29.970	64.498	0.00	0.00
ATOM	4325	NE2	GLN	X	287	50.541	29.565	64.443	0.00	0.00
ATOM	4326	HE21	GLN	X	287	50.592	29.706	65.442	0.00	0.00
ATOM	4327	HE22	GLN	X	287	49.673	29.415	63.949	0.00	0.00
ATOM	4328	C	GLN	X	287	50.576	27.514	59.340	0.00	0.00
ATOM	4329	O	GLN	X	287	49.548	27.335	58.674	0.00	0.00
ATOM	4330	N	GLU	X	288	51.593	26.655	59.122	0.00	0.00
ATOM	4331	H	GLU	X	288	52.512	26.976	59.393	0.00	0.00
ATOM	4332	CA	GLU	X	288	51.559	25.347	58.408	0.00	0.00
ATOM	4333	HA	GLU	X	288	52.565	24.933	58.472	0.00	0.00
ATOM	4334	CB	GLU	X	288	50.664	24.400	59.188	0.00	0.00
ATOM	4335	HB2	GLU	X	288	49.720	24.868	59.470	0.00	0.00
ATOM	4336	HB3	GLU	X	288	50.625	23.540	58.519	0.00	0.00
ATOM	4337	CG	GLU	X	288	51.256	23.834	60.460	0.00	0.00
ATOM	4338	HG2	GLU	X	288	52.064	23.194	60.104	0.00	0.00
ATOM	4339	HG3	GLU	X	288	51.759	24.635	61.000	0.00	0.00
ATOM	4340	CD	GLU	X	288	50.308	23.283	61.433	0.00	0.00
ATOM	4341	OE1	GLU	X	288	49.869	22.108	61.334	0.00	0.00
ATOM	4342	OE2	GLU	X	288	49.800	23.983	62.348	0.00	0.00
ATOM	4343	C	GLU	X	288	51.195	25.569	56.891	0.00	0.00
ATOM	4344	O	GLU	X	288	50.600	24.661	56.310	0.00	0.00
ATOM	4345	N	SER	X	289	51.682	26.651	56.380	0.00	0.00
ATOM	4346	H	SER	X	289	52.252	27.298	56.906	0.00	0.00
ATOM	4347	CA	SER	X	289	51.231	27.051	55.066	0.00	0.00
ATOM	4348	HA	SER	X	289	51.100	26.178	54.427	0.00	0.00
ATOM	4349	CB	SER	X	289	49.839	27.636	55.266	0.00	0.00
ATOM	4350	HB2	SER	X	289	49.530	28.130	54.345	0.00	0.00
ATOM	4351	HB3	SER	X	289	49.153	26.807	55.439	0.00	0.00
ATOM	4352	OG	SER	X	289	49.782	28.740	56.139	0.00	0.00
ATOM	4353	HG	SER	X	289	49.733	28.440	57.049	0.00	0.00
ATOM	4354	C	SER	X	289	52.271	27.952	54.384	0.00	0.00
ATOM	4355	O	SER	X	289	53.261	28.352	55.002	0.00	0.00
ATOM	4356	N	VAL	X	290	52.026	28.293	53.087	0.00	0.00
ATOM	4357	H	VAL	X	290	51.205	27.950	52.610	0.00	0.00
ATOM	4358	CA	VAL	X	290	52.820	29.218	52.320	0.00	0.00
ATOM	4359	HA	VAL	X	290	53.392	29.827	53.020	0.00	0.00
ATOM	4360	CB	VAL	X	290	53.859	28.435	51.483	0.00	0.00
ATOM	4361	HB	VAL	X	290	53.254	27.686	50.972	0.00	0.00
ATOM	4362	CG1	VAL	X	290	54.489	29.165	50.300	0.00	0.00
ATOM	4363	HG11	VAL	X	290	54.871	30.142	50.593	0.00	0.00
ATOM	4364	HG12	VAL	X	290	55.228	28.567	49.767	0.00	0.00
ATOM	4365	HG13	VAL	X	290	53.654	29.261	49.606	0.00	0.00
ATOM	4366	CG2	VAL	X	290	54.920	27.646	52.317	0.00	0.00
ATOM	4367	HG21	VAL	X	290	54.456	26.970	53.035	0.00	0.00
ATOM	4368	HG22	VAL	X	290	55.609	27.019	51.752	0.00	0.00
ATOM	4369	HG23	VAL	X	290	55.511	28.403	52.832	0.00	0.00
ATOM	4370	C	VAL	X	290	51.906	30.094	51.484	0.00	0.00
ATOM	4371	O	VAL	X	290	50.733	29.734	51.227	0.00	0.00
ATOM	4372	N	PHE	X	291	52.361	31.324	51.346	0.00	0.00
ATOM	4373	H	PHE	X	291	53.276	31.468	51.748	0.00	0.00
ATOM	4374	CA	PHE	X	291	51.713	32.522	50.744	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.329	33.348	51.098	0.00	0.00
ATOM	4376	CB	PHE	X	291	51.816	32.514	49.177	0.00	0.00
ATOM	4377	HB2	PHE	X	291	52.572	31.757	48.968	0.00	0.00

ATOM	4378	HB3	PHE	X	291	50.898	32.169	48.701	0.00	0.00
ATOM	4379	CG	PHE	X	291	52.310	33.807	48.512	0.00	0.00
ATOM	4380	CD1	PHE	X	291	53.669	34.233	48.575	0.00	0.00
ATOM	4381	HD1	PHE	X	291	54.368	33.564	49.056	0.00	0.00
ATOM	4382	CE1	PHE	X	291	54.078	35.293	47.784	0.00	0.00
ATOM	4383	HE1	PHE	X	291	55.097	35.649	47.814	0.00	0.00
ATOM	4384	CZ	PHE	X	291	53.162	36.048	47.062	0.00	0.00
ATOM	4385	HZ	PHE	X	291	53.571	36.894	46.530	0.00	0.00
ATOM	4386	CE2	PHE	X	291	51.842	35.601	46.956	0.00	0.00
ATOM	4387	HE2	PHE	X	291	51.243	36.124	46.226	0.00	0.00
ATOM	4388	CD2	PHE	X	291	51.440	34.507	47.695	0.00	0.00
ATOM	4389	HD2	PHE	X	291	50.396	34.238	47.638	0.00	0.00
ATOM	4390	C	PHE	X	291	50.256	32.816	51.303	0.00	0.00
ATOM	4391	O	PHE	X	291	49.361	33.070	50.584	0.00	0.00
ATOM	4392	N	ARG	X	292	49.917	32.660	52.611	0.00	0.00
ATOM	4393	H	ARG	X	292	50.651	32.390	53.250	0.00	0.00
ATOM	4394	CA	ARG	X	292	48.673	33.146	53.310	0.00	0.00
ATOM	4395	HA	ARG	X	292	48.007	33.336	52.469	0.00	0.00
ATOM	4396	CB	ARG	X	292	48.014	32.132	54.191	0.00	0.00
ATOM	4397	HB2	ARG	X	292	48.691	31.865	55.003	0.00	0.00
ATOM	4398	HB3	ARG	X	292	47.088	32.608	54.513	0.00	0.00
ATOM	4399	CG	ARG	X	292	47.669	30.848	53.418	0.00	0.00
ATOM	4400	HG2	ARG	X	292	48.594	30.514	52.948	0.00	0.00
ATOM	4401	HG3	ARG	X	292	47.165	30.042	53.950	0.00	0.00
ATOM	4402	CD	ARG	X	292	46.620	31.150	52.366	0.00	0.00
ATOM	4403	HD2	ARG	X	292	45.824	30.408	52.422	0.00	0.00
ATOM	4404	HD3	ARG	X	292	46.220	32.132	52.619	0.00	0.00
ATOM	4405	NE	ARG	X	292	47.198	31.130	51.038	0.00	0.00
ATOM	4406	HE	ARG	X	292	48.078	31.601	50.878	0.00	0.00
ATOM	4407	CZ	ARG	X	292	46.738	30.368	50.063	0.00	0.00
ATOM	4408	NH1	ARG	X	292	45.545	29.822	49.971	0.00	0.00
ATOM	4409	HH11	ARG	X	292	44.873	29.987	50.706	0.00	0.00
ATOM	4410	HH12	ARG	X	292	45.367	29.124	49.264	0.00	0.00
ATOM	4411	NH2	ARG	X	292	47.513	30.075	49.075	0.00	0.00
ATOM	4412	HH21	ARG	X	292	48.411	30.536	49.099	0.00	0.00
ATOM	4413	HH22	ARG	X	292	47.225	29.489	48.304	0.00	0.00
ATOM	4414	C	ARG	X	292	49.064	34.402	54.178	0.00	0.00
ATOM	4415	O	ARG	X	292	49.813	34.236	55.140	0.00	0.00
ATOM	4416	N	PHE	X	293	48.490	35.589	53.830	0.00	0.00
ATOM	4417	H	PHE	X	293	47.865	35.571	53.037	0.00	0.00
ATOM	4418	CA	PHE	X	293	48.836	36.902	54.396	0.00	0.00
ATOM	4419	HA	PHE	X	293	49.919	36.994	54.483	0.00	0.00
ATOM	4420	CB	PHE	X	293	48.390	37.952	53.325	0.00	0.00
ATOM	4421	HB2	PHE	X	293	47.314	37.864	53.174	0.00	0.00
ATOM	4422	HB3	PHE	X	293	48.629	38.895	53.815	0.00	0.00
ATOM	4423	CG	PHE	X	293	49.142	37.959	51.993	0.00	0.00
ATOM	4424	CD1	PHE	X	293	50.457	38.531	51.915	0.00	0.00
ATOM	4425	HD1	PHE	X	293	50.995	38.861	52.792	0.00	0.00
ATOM	4426	CE1	PHE	X	293	51.140	38.525	50.666	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.118	38.958	50.519	0.00	0.00
ATOM	4428	CZ	PHE	X	293	50.530	37.986	49.527	0.00	0.00
ATOM	4429	HZ	PHE	X	293	50.939	37.978	48.528	0.00	0.00
ATOM	4430	CE2	PHE	X	293	49.217	37.403	49.626	0.00	0.00
ATOM	4431	HE2	PHE	X	293	48.820	36.945	48.732	0.00	0.00
ATOM	4432	CD2	PHE	X	293	48.600	37.354	50.861	0.00	0.00
ATOM	4433	HD2	PHE	X	293	47.632	36.883	50.954	0.00	0.00
ATOM	4434	C	PHE	X	293	48.321	37.105	55.837	0.00	0.00
ATOM	4435	O	PHE	X	293	47.545	36.326	56.402	0.00	0.00
ATOM	4436	N	SER	X	294	48.628	38.218	56.458	0.00	0.00
ATOM	4437	H	SER	X	294	49.396	38.687	55.999	0.00	0.00
ATOM	4438	CA	SER	X	294	48.078	38.760	57.675	0.00	0.00
ATOM	4439	HA	SER	X	294	48.084	37.976	58.432	0.00	0.00
ATOM	4440	CB	SER	X	294	49.061	39.820	58.058	0.00	0.00
ATOM	4441	HB2	SER	X	294	48.769	40.252	59.015	0.00	0.00
ATOM	4442	HB3	SER	X	294	50.043	39.358	58.159	0.00	0.00
ATOM	4443	OG	SER	X	294	49.138	40.834	57.137	0.00	0.00
ATOM	4444	HG	SER	X	294	49.566	41.627	57.467	0.00	0.00
ATOM	4445	C	SER	X	294	46.594	39.167	57.557	0.00	0.00
ATOM	4446	O	SER	X	294	45.793	38.495	58.201	0.00	0.00
ATOM	4447	N	PHE	X	295	46.274	40.203	56.751	0.00	0.00

ATOM	4448	H	PHE	X	295	47.023	40.781	56.399	0.00	0.00
ATOM	4449	CA	PHE	X	295	44.887	40.664	56.500	0.00	0.00
ATOM	4450	HA	PHE	X	295	44.294	39.939	57.058	0.00	0.00
ATOM	4451	CB	PHE	X	295	44.697	42.026	57.262	0.00	0.00
ATOM	4452	HB2	PHE	X	295	45.453	42.707	56.872	0.00	0.00
ATOM	4453	HB3	PHE	X	295	43.724	42.462	57.035	0.00	0.00
ATOM	4454	CG	PHE	X	295	44.772	41.815	58.711	0.00	0.00
ATOM	4455	CD1	PHE	X	295	43.676	41.178	59.415	0.00	0.00
ATOM	4456	HD1	PHE	X	295	42.752	40.884	58.939	0.00	0.00
ATOM	4457	CE1	PHE	X	295	43.783	40.956	60.772	0.00	0.00
ATOM	4458	HE1	PHE	X	295	42.928	40.490	61.239	0.00	0.00
ATOM	4459	CZ	PHE	X	295	44.977	41.254	61.423	0.00	0.00
ATOM	4460	HZ	PHE	X	295	45.108	40.933	62.446	0.00	0.00
ATOM	4461	CE2	PHE	X	295	46.079	41.924	60.695	0.00	0.00
ATOM	4462	HE2	PHE	X	295	46.946	42.237	61.258	0.00	0.00
ATOM	4463	CD2	PHE	X	295	45.987	42.158	59.335	0.00	0.00
ATOM	4464	HD2	PHE	X	295	46.806	42.613	58.799	0.00	0.00
ATOM	4465	C	PHE	X	295	44.639	40.809	54.963	0.00	0.00
ATOM	4466	O	PHE	X	295	45.347	41.525	54.252	0.00	0.00
ATOM	4467	N	VAL	X	296	43.508	40.286	54.504	0.00	0.00
ATOM	4468	H	VAL	X	296	42.877	39.834	55.150	0.00	0.00
ATOM	4469	CA	VAL	X	296	43.005	40.359	53.145	0.00	0.00
ATOM	4470	HA	VAL	X	296	43.410	41.280	52.725	0.00	0.00
ATOM	4471	CB	VAL	X	296	43.423	39.146	52.246	0.00	0.00
ATOM	4472	HB	VAL	X	296	43.293	39.453	51.208	0.00	0.00
ATOM	4473	CG1	VAL	X	296	44.908	38.791	52.158	0.00	0.00
ATOM	4474	HG11	VAL	X	296	45.553	39.632	51.905	0.00	0.00
ATOM	4475	HG12	VAL	X	296	45.177	38.437	53.153	0.00	0.00
ATOM	4476	HG13	VAL	X	296	45.035	37.941	51.487	0.00	0.00
ATOM	4477	CG2	VAL	X	296	42.710	37.852	52.614	0.00	0.00
ATOM	4478	HG21	VAL	X	296	41.656	38.072	52.784	0.00	0.00
ATOM	4479	HG22	VAL	X	296	42.683	37.120	51.808	0.00	0.00
ATOM	4480	HG23	VAL	X	296	43.141	37.484	53.545	0.00	0.00
ATOM	4481	C	VAL	X	296	41.506	40.551	53.252	0.00	0.00
ATOM	4482	O	VAL	X	296	40.914	40.587	54.349	0.00	0.00
ATOM	4483	N	PRO	X	297	40.793	40.874	52.129	0.00	0.00
ATOM	4484	CD	PRO	X	297	41.307	41.141	50.769	0.00	0.00
ATOM	4485	HD2	PRO	X	297	41.561	40.180	50.321	0.00	0.00
ATOM	4486	HD3	PRO	X	297	42.096	41.886	50.666	0.00	0.00
ATOM	4487	CG	PRO	X	297	40.088	41.751	50.015	0.00	0.00
ATOM	4488	HG2	PRO	X	297	40.144	41.549	48.945	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.021	42.837	50.085	0.00	0.00
ATOM	4490	CB	PRO	X	297	38.972	40.980	50.669	0.00	0.00
ATOM	4491	HB2	PRO	X	297	38.948	39.953	50.306	0.00	0.00
ATOM	4492	HB3	PRO	X	297	38.087	41.574	50.437	0.00	0.00
ATOM	4493	CA	PRO	X	297	39.327	41.105	52.084	0.00	0.00
ATOM	4494	HA	PRO	X	297	39.101	42.118	52.418	0.00	0.00
ATOM	4495	C	PRO	X	297	38.567	40.053	52.901	0.00	0.00
ATOM	4496	O	PRO	X	297	38.876	38.850	52.792	0.00	0.00
ATOM	4497	N	VAL	X	298	37.595	40.571	53.641	0.00	0.00
ATOM	4498	H	VAL	X	298	37.662	41.565	53.809	0.00	0.00
ATOM	4499	CA	VAL	X	298	36.788	39.635	54.527	0.00	0.00
ATOM	4500	HA	VAL	X	298	37.258	38.653	54.480	0.00	0.00
ATOM	4501	CB	VAL	X	298	36.851	40.217	55.957	0.00	0.00
ATOM	4502	HB	VAL	X	298	36.254	41.126	56.045	0.00	0.00
ATOM	4503	CG1	VAL	X	298	36.428	39.093	56.899	0.00	0.00
ATOM	4504	HG11	VAL	X	298	35.540	38.546	56.581	0.00	0.00
ATOM	4505	HG12	VAL	X	298	37.220	38.358	57.038	0.00	0.00
ATOM	4506	HG13	VAL	X	298	36.195	39.606	57.832	0.00	0.00
ATOM	4507	CG2	VAL	X	298	38.297	40.584	56.334	0.00	0.00
ATOM	4508	HG21	VAL	X	298	38.681	41.427	55.760	0.00	0.00
ATOM	4509	HG22	VAL	X	298	38.230	40.988	57.344	0.00	0.00
ATOM	4510	HG23	VAL	X	298	38.962	39.726	56.233	0.00	0.00
ATOM	4511	C	VAL	X	298	35.327	39.549	54.056	0.00	0.00
ATOM	4512	O	VAL	X	298	34.747	40.620	53.794	0.00	0.00
ATOM	4513	N	VAL	X	299	34.696	38.432	54.210	0.00	0.00
ATOM	4514	H	VAL	X	299	35.262	37.623	54.423	0.00	0.00
ATOM	4515	CA	VAL	X	299	33.320	38.342	54.376	0.00	0.00
ATOM	4516	HA	VAL	X	299	32.871	38.797	53.493	0.00	0.00
ATOM	4517	CB	VAL	X	299	32.823	36.926	54.263	0.00	0.00

ATOM	4518	HB	VAL	X	299	33.087	36.472	55.218	0.00	0.00
ATOM	4519	CG1	VAL	X	299	31.296	36.783	54.190	0.00	0.00
ATOM	4520	HG11	VAL	X	299	30.886	37.508	54.894	0.00	0.00
ATOM	4521	HG12	VAL	X	299	31.197	37.137	53.164	0.00	0.00
ATOM	4522	HG13	VAL	X	299	30.871	35.785	54.291	0.00	0.00
ATOM	4523	CG2	VAL	X	299	33.534	36.098	53.120	0.00	0.00
ATOM	4524	HG21	VAL	X	299	33.023	35.176	52.844	0.00	0.00
ATOM	4525	HG22	VAL	X	299	33.614	36.701	52.215	0.00	0.00
ATOM	4526	HG23	VAL	X	299	34.542	35.718	53.288	0.00	0.00
ATOM	4527	C	VAL	X	299	32.855	39.058	55.654	0.00	0.00
ATOM	4528	O	VAL	X	299	33.054	38.553	56.785	0.00	0.00
ATOM	4529	N	ASP	X	300	32.252	40.246	55.482	0.00	0.00
ATOM	4530	H	ASP	X	300	32.063	40.528	54.531	0.00	0.00
ATOM	4531	CA	ASP	X	300	31.824	41.235	56.539	0.00	0.00
ATOM	4532	HA	ASP	X	300	32.013	40.853	57.542	0.00	0.00
ATOM	4533	CB	ASP	X	300	32.616	42.558	56.389	0.00	0.00
ATOM	4534	HB2	ASP	X	300	32.393	43.094	57.312	0.00	0.00
ATOM	4535	HB3	ASP	X	300	33.698	42.435	56.338	0.00	0.00
ATOM	4536	CG	ASP	X	300	32.215	43.489	55.241	0.00	0.00
ATOM	4537	OD1	ASP	X	300	31.695	42.934	54.272	0.00	0.00
ATOM	4538	OD2	ASP	X	300	32.486	44.739	55.324	0.00	0.00
ATOM	4539	C	ASP	X	300	30.339	41.528	56.544	0.00	0.00
ATOM	4540	O	ASP	X	300	29.853	42.263	57.432	0.00	0.00
ATOM	4541	N	GLY	X	301	29.518	41.160	55.562	0.00	0.00
ATOM	4542	H	GLY	X	301	29.907	40.501	54.903	0.00	0.00
ATOM	4543	CA	GLY	X	301	28.053	41.468	55.492	0.00	0.00
ATOM	4544	HA2	GLY	X	301	27.550	40.761	54.854	0.00	0.00
ATOM	4545	HA3	GLY	X	301	27.576	41.514	56.455	0.00	0.00
ATOM	4546	C	GLY	X	301	27.727	42.814	54.831	0.00	0.00
ATOM	4547	O	GLY	X	301	26.532	43.028	54.701	0.00	0.00
ATOM	4548	N	ASP	X	302	28.762	43.578	54.478	0.00	0.00
ATOM	4549	H	ASP	X	302	29.737	43.333	54.575	0.00	0.00
ATOM	4550	CA	ASP	X	302	28.431	44.922	53.895	0.00	0.00
ATOM	4551	HA	ASP	X	302	27.364	45.088	53.744	0.00	0.00
ATOM	4552	CB	ASP	X	302	28.986	45.985	54.922	0.00	0.00
ATOM	4553	HB2	ASP	X	302	28.533	45.919	55.911	0.00	0.00
ATOM	4554	HB3	ASP	X	302	30.027	45.693	55.060	0.00	0.00
ATOM	4555	CG	ASP	X	302	28.984	47.410	54.368	0.00	0.00
ATOM	4556	OD1	ASP	X	302	28.036	48.163	54.732	0.00	0.00
ATOM	4557	OD2	ASP	X	302	29.904	47.779	53.645	0.00	0.00
ATOM	4558	C	ASP	X	302	29.024	44.986	52.511	0.00	0.00
ATOM	4559	O	ASP	X	302	28.243	45.156	51.559	0.00	0.00
ATOM	4560	N	PHE	X	303	30.329	44.738	52.355	0.00	0.00
ATOM	4561	H	PHE	X	303	30.935	44.680	53.161	0.00	0.00
ATOM	4562	CA	PHE	X	303	30.876	44.564	51.027	0.00	0.00
ATOM	4563	HA	PHE	X	303	30.340	45.212	50.335	0.00	0.00
ATOM	4564	CB	PHE	X	303	32.400	44.917	51.050	0.00	0.00
ATOM	4565	HB2	PHE	X	303	32.543	45.630	51.862	0.00	0.00
ATOM	4566	HB3	PHE	X	303	33.003	44.102	51.452	0.00	0.00
ATOM	4567	CG	PHE	X	303	32.975	45.392	49.717	0.00	0.00
ATOM	4568	CD1	PHE	X	303	33.241	44.333	48.817	0.00	0.00
ATOM	4569	HD1	PHE	X	303	32.953	43.315	49.036	0.00	0.00
ATOM	4570	CE1	PHE	X	303	33.784	44.711	47.567	0.00	0.00
ATOM	4571	HE1	PHE	X	303	33.897	44.015	46.749	0.00	0.00
ATOM	4572	CZ	PHE	X	303	34.042	46.042	47.224	0.00	0.00
ATOM	4573	HZ	PHE	X	303	34.241	46.308	46.197	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.756	47.099	48.153	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.869	48.141	47.893	0.00	0.00
ATOM	4576	CD2	PHE	X	303	33.286	46.716	49.408	0.00	0.00
ATOM	4577	HD2	PHE	X	303	33.068	47.348	50.256	0.00	0.00
ATOM	4578	C	PHE	X	303	30.731	43.161	50.516	0.00	0.00
ATOM	4579	O	PHE	X	303	30.219	42.975	49.368	0.00	0.00
ATOM	4580	N	LEU	X	304	31.175	42.135	51.282	0.00	0.00
ATOM	4581	H	LEU	X	304	31.715	42.455	52.073	0.00	0.00
ATOM	4582	CA	LEU	X	304	31.071	40.724	50.979	0.00	0.00
ATOM	4583	HA	LEU	X	304	30.627	40.537	50.001	0.00	0.00
ATOM	4584	CB	LEU	X	304	32.470	40.087	51.138	0.00	0.00
ATOM	4585	HB2	LEU	X	304	32.856	40.372	52.116	0.00	0.00
ATOM	4586	HB3	LEU	X	304	32.355	39.004	51.183	0.00	0.00
ATOM	4587	CG	LEU	X	304	33.445	40.602	50.058	0.00	0.00

ATOM	4588	HG	LEU	X	304	33.584	41.665	50.254	0.00	0.00
ATOM	4589	CD1	LEU	X	304	34.745	39.875	50.181	0.00	0.00
ATOM	4590	HD11	LEU	X	304	34.582	38.822	49.948	0.00	0.00
ATOM	4591	HD12	LEU	X	304	35.484	40.383	49.562	0.00	0.00
ATOM	4592	HD13	LEU	X	304	35.154	39.864	51.192	0.00	0.00
ATOM	4593	CD2	LEU	X	304	32.935	40.462	48.606	0.00	0.00
ATOM	4594	HD21	LEU	X	304	32.203	41.250	48.432	0.00	0.00
ATOM	4595	HD22	LEU	X	304	33.640	40.720	47.816	0.00	0.00
ATOM	4596	HD23	LEU	X	304	32.593	39.438	48.458	0.00	0.00
ATOM	4597	C	LEU	X	304	30.066	40.097	52.044	0.00	0.00
ATOM	4598	O	LEU	X	304	30.381	39.728	53.148	0.00	0.00
ATOM	4599	N	SER	X	305	28.805	39.956	51.620	0.00	0.00
ATOM	4600	H	SER	X	305	28.476	40.365	50.757	0.00	0.00
ATOM	4601	CA	SER	X	305	27.822	39.176	52.311	0.00	0.00
ATOM	4602	HA	SER	X	305	27.837	39.461	53.363	0.00	0.00
ATOM	4603	CB	SER	X	305	26.444	39.525	51.717	0.00	0.00
ATOM	4604	HB2	SER	X	305	25.751	38.854	52.225	0.00	0.00
ATOM	4605	HB3	SER	X	305	26.294	40.594	51.874	0.00	0.00
ATOM	4606	OG	SER	X	305	26.276	39.367	50.292	0.00	0.00
ATOM	4607	HG	SER	X	305	26.848	40.002	49.855	0.00	0.00
ATOM	4608	C	SER	X	305	28.174	37.657	52.225	0.00	0.00
ATOM	4609	O	SER	X	305	27.924	36.854	53.160	0.00	0.00
ATOM	4610	N	ASP	X	306	28.864	37.163	51.185	0.00	0.00
ATOM	4611	H	ASP	X	306	29.141	37.804	50.455	0.00	0.00
ATOM	4612	CA	ASP	X	306	29.449	35.828	51.136	0.00	0.00
ATOM	4613	HA	ASP	X	306	29.669	35.417	52.121	0.00	0.00
ATOM	4614	CB	ASP	X	306	28.556	34.795	50.480	0.00	0.00
ATOM	4615	HB2	ASP	X	306	27.509	35.098	50.516	0.00	0.00
ATOM	4616	HB3	ASP	X	306	28.779	34.744	49.414	0.00	0.00
ATOM	4617	CG	ASP	X	306	28.635	33.477	51.198	0.00	0.00
ATOM	4618	OD1	ASP	X	306	27.823	33.301	52.126	0.00	0.00
ATOM	4619	OD2	ASP	X	306	29.580	32.685	50.956	0.00	0.00
ATOM	4620	C	ASP	X	306	30.844	35.950	50.487	0.00	0.00
ATOM	4621	O	ASP	X	306	31.198	36.968	50.073	0.00	0.00
ATOM	4622	N	THR	X	307	31.529	34.817	50.213	0.00	0.00
ATOM	4623	H	THR	X	307	31.013	33.973	50.417	0.00	0.00
ATOM	4624	CA	THR	X	307	32.696	34.746	49.333	0.00	0.00
ATOM	4625	HA	THR	X	307	33.324	35.531	49.753	0.00	0.00
ATOM	4626	CB	THR	X	307	33.580	33.487	49.359	0.00	0.00
ATOM	4627	HB	THR	X	307	34.452	33.739	48.755	0.00	0.00
ATOM	4628	CG2	THR	X	307	33.982	33.030	50.764	0.00	0.00
ATOM	4629	HG21	THR	X	307	34.561	33.817	51.248	0.00	0.00
ATOM	4630	HG22	THR	X	307	33.155	32.732	51.408	0.00	0.00
ATOM	4631	HG23	THR	X	307	34.636	32.159	50.798	0.00	0.00
ATOM	4632	OG1	THR	X	307	32.888	32.393	48.856	0.00	0.00
ATOM	4633	HG1	THR	X	307	33.397	31.579	48.846	0.00	0.00
ATOM	4634	C	THR	X	307	32.488	35.272	47.920	0.00	0.00
ATOM	4635	O	THR	X	307	31.306	35.292	47.504	0.00	0.00
ATOM	4636	N	PRO	X	308	33.505	35.839	47.234	0.00	0.00
ATOM	4637	CD	PRO	X	308	34.788	36.211	47.809	0.00	0.00
ATOM	4638	HD2	PRO	X	308	35.430	35.332	47.858	0.00	0.00
ATOM	4639	HD3	PRO	X	308	34.719	36.727	48.766	0.00	0.00
ATOM	4640	CG	PRO	X	308	35.473	37.056	46.699	0.00	0.00
ATOM	4641	HG2	PRO	X	308	36.562	37.026	46.730	0.00	0.00
ATOM	4642	HG3	PRO	X	308	35.077	38.067	46.800	0.00	0.00
ATOM	4643	CB	PRO	X	308	34.826	36.498	45.373	0.00	0.00
ATOM	4644	HB2	PRO	X	308	35.408	35.709	44.896	0.00	0.00
ATOM	4645	HB3	PRO	X	308	34.691	37.219	44.567	0.00	0.00
ATOM	4646	CA	PRO	X	308	33.437	36.136	45.788	0.00	0.00
ATOM	4647	HA	PRO	X	308	32.843	37.031	45.599	0.00	0.00
ATOM	4648	C	PRO	X	308	32.871	35.013	44.886	0.00	0.00
ATOM	4649	O	PRO	X	308	31.970	35.263	44.056	0.00	0.00
ATOM	4650	N	GLU	X	309	33.409	33.780	44.997	0.00	0.00
ATOM	4651	H	GLU	X	309	34.255	33.683	45.540	0.00	0.00
ATOM	4652	CA	GLU	X	309	32.908	32.644	44.307	0.00	0.00
ATOM	4653	HA	GLU	X	309	33.072	32.702	43.231	0.00	0.00
ATOM	4654	CB	GLU	X	309	33.592	31.376	44.908	0.00	0.00
ATOM	4655	HB2	GLU	X	309	34.674	31.471	44.813	0.00	0.00
ATOM	4656	HB3	GLU	X	309	33.383	31.224	45.967	0.00	0.00
ATOM	4657	CG	GLU	X	309	33.249	30.092	44.171	0.00	0.00

ATOM	4658	HG2	GLU	X	309	32.192	29.910	44.367	0.00	0.00
ATOM	4659	HG3	GLU	X	309	33.187	30.271	43.098	0.00	0.00
ATOM	4660	CD	GLU	X	309	34.014	28.864	44.514	0.00	0.00
ATOM	4661	OE1	GLU	X	309	33.398	27.819	44.845	0.00	0.00
ATOM	4662	OE2	GLU	X	309	35.298	28.901	44.456	0.00	0.00
ATOM	4663	C	GLU	X	309	31.348	32.535	44.588	0.00	0.00
ATOM	4664	O	GLU	X	309	30.556	32.369	43.664	0.00	0.00
ATOM	4665	N	ALA	X	310	30.875	32.640	45.812	0.00	0.00
ATOM	4666	H	ALA	X	310	31.509	32.804	46.581	0.00	0.00
ATOM	4667	CA	ALA	X	310	29.452	32.579	46.185	0.00	0.00
ATOM	4668	HA	ALA	X	310	29.022	31.641	45.833	0.00	0.00
ATOM	4669	CB	ALA	X	310	29.424	32.469	47.716	0.00	0.00
ATOM	4670	HB1	ALA	X	310	29.853	33.368	48.157	0.00	0.00
ATOM	4671	HB2	ALA	X	310	28.472	32.362	48.237	0.00	0.00
ATOM	4672	HB3	ALA	X	310	30.055	31.617	47.969	0.00	0.00
ATOM	4673	C	ALA	X	310	28.463	33.721	45.794	0.00	0.00
ATOM	4674	O	ALA	X	310	27.260	33.573	45.577	0.00	0.00
ATOM	4675	N	LEU	X	311	29.036	34.927	45.617	0.00	0.00
ATOM	4676	H	LEU	X	311	30.018	34.950	45.852	0.00	0.00
ATOM	4677	CA	LEU	X	311	28.352	36.024	44.968	0.00	0.00
ATOM	4678	HA	LEU	X	311	27.297	36.008	45.241	0.00	0.00
ATOM	4679	CB	LEU	X	311	29.111	37.328	45.460	0.00	0.00
ATOM	4680	HB2	LEU	X	311	30.154	37.176	45.185	0.00	0.00
ATOM	4681	HB3	LEU	X	311	28.740	38.180	44.890	0.00	0.00
ATOM	4682	CG	LEU	X	311	28.921	37.561	46.979	0.00	0.00
ATOM	4683	HG	LEU	X	311	29.045	36.622	47.520	0.00	0.00
ATOM	4684	CD1	LEU	X	311	29.959	38.558	47.520	0.00	0.00
ATOM	4685	HD11	LEU	X	311	29.743	38.543	48.589	0.00	0.00
ATOM	4686	HD12	LEU	X	311	30.952	38.191	47.263	0.00	0.00
ATOM	4687	HD13	LEU	X	311	29.941	39.584	47.152	0.00	0.00
ATOM	4688	CD2	LEU	X	311	27.515	38.033	47.169	0.00	0.00
ATOM	4689	HD21	LEU	X	311	27.414	38.172	48.245	0.00	0.00
ATOM	4690	HD22	LEU	X	311	27.386	39.006	46.695	0.00	0.00
ATOM	4691	HD23	LEU	X	311	26.774	37.396	46.685	0.00	0.00
ATOM	4692	C	LEU	X	311	28.421	36.065	43.513	0.00	0.00
ATOM	4693	O	LEU	X	311	27.502	36.587	42.898	0.00	0.00
ATOM	4694	N	ILE	X	312	29.388	35.430	42.840	0.00	0.00
ATOM	4695	H	ILE	X	312	30.187	35.116	43.372	0.00	0.00
ATOM	4696	CA	ILE	X	312	29.278	35.137	41.424	0.00	0.00
ATOM	4697	HA	ILE	X	312	28.849	35.981	40.885	0.00	0.00
ATOM	4698	CB	ILE	X	312	30.721	34.944	40.860	0.00	0.00
ATOM	4699	HB	ILE	X	312	31.061	34.019	41.326	0.00	0.00
ATOM	4700	CG2	ILE	X	312	30.641	34.412	39.484	0.00	0.00
ATOM	4701	HG21	ILE	X	312	30.204	33.418	39.580	0.00	0.00
ATOM	4702	HG22	ILE	X	312	29.972	35.037	38.891	0.00	0.00
ATOM	4703	HG23	ILE	X	312	31.666	34.369	39.115	0.00	0.00
ATOM	4704	CG1	ILE	X	312	31.737	36.120	40.964	0.00	0.00
ATOM	4705	HG12	ILE	X	312	31.652	36.571	39.976	0.00	0.00
ATOM	4706	HG13	ILE	X	312	31.492	36.836	41.748	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.149	35.604	41.195	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.530	35.322	40.213	0.00	0.00
ATOM	4709	HD12	ILE	X	312	33.790	36.339	41.681	0.00	0.00
ATOM	4710	HD13	ILE	X	312	33.154	34.667	41.751	0.00	0.00
ATOM	4711	C	ILE	X	312	28.262	34.049	41.194	0.00	0.00
ATOM	4712	O	ILE	X	312	27.498	34.178	40.300	0.00	0.00
ATOM	4713	N	ASN	X	313	28.066	33.075	42.111	0.00	0.00
ATOM	4714	H	ASN	X	313	28.715	33.045	42.884	0.00	0.00
ATOM	4715	CA	ASN	X	313	26.990	32.065	41.988	0.00	0.00
ATOM	4716	HA	ASN	X	313	27.034	31.680	40.969	0.00	0.00
ATOM	4717	CB	ASN	X	313	27.257	30.922	42.981	0.00	0.00
ATOM	4718	HB2	ASN	X	313	27.723	31.382	43.852	0.00	0.00
ATOM	4719	HB3	ASN	X	313	26.298	30.498	43.280	0.00	0.00
ATOM	4720	CG	ASN	X	313	28.043	29.817	42.319	0.00	0.00
ATOM	4721	OD1	ASN	X	313	28.036	29.656	41.101	0.00	0.00
ATOM	4722	ND2	ASN	X	313	28.840	29.037	43.091	0.00	0.00
ATOM	4723	HD21	ASN	X	313	29.386	28.341	42.604	0.00	0.00
ATOM	4724	HD22	ASN	X	313	28.890	29.303	44.064	0.00	0.00
ATOM	4725	C	ASN	X	313	25.627	32.615	42.142	0.00	0.00
ATOM	4726	O	ASN	X	313	24.708	32.312	41.405	0.00	0.00
ATOM	4727	N	ALA	X	314	25.389	33.490	43.128	0.00	0.00

ATOM	4728	H	ALA	X	314	26.106	33.833	43.750	0.00	0.00
ATOM	4729	CA	ALA	X	314	24.107	34.236	43.306	0.00	0.00
ATOM	4730	HA	ALA	X	314	23.327	33.518	43.054	0.00	0.00
ATOM	4731	CB	ALA	X	314	24.062	34.575	44.748	0.00	0.00
ATOM	4732	HB1	ALA	X	314	24.444	33.768	45.373	0.00	0.00
ATOM	4733	HB2	ALA	X	314	24.750	35.416	44.828	0.00	0.00
ATOM	4734	HB3	ALA	X	314	23.060	34.921	45.002	0.00	0.00
ATOM	4735	C	ALA	X	314	23.921	35.471	42.348	0.00	0.00
ATOM	4736	O	ALA	X	314	23.519	36.547	42.788	0.00	0.00
ATOM	4737	N	GLY	X	315	24.448	35.345	41.192	0.00	0.00
ATOM	4738	H	GLY	X	315	24.639	34.395	40.908	0.00	0.00
ATOM	4739	CA	GLY	X	315	24.880	36.343	40.203	0.00	0.00
ATOM	4740	HA2	GLY	X	315	25.033	37.339	40.636	0.00	0.00
ATOM	4741	HA3	GLY	X	315	25.802	35.949	39.844	0.00	0.00
ATOM	4742	C	GLY	X	315	23.952	36.502	38.994	0.00	0.00
ATOM	4743	O	GLY	X	315	23.048	35.698	38.743	0.00	0.00
ATOM	4744	N	ASP	X	316	24.338	37.505	38.245	0.00	0.00
ATOM	4745	H	ASP	X	316	25.145	38.037	38.539	0.00	0.00
ATOM	4746	CA	ASP	X	316	23.651	38.088	37.064	0.00	0.00
ATOM	4747	HA	ASP	X	316	23.396	37.365	36.289	0.00	0.00
ATOM	4748	CB	ASP	X	316	22.319	38.794	37.566	0.00	0.00
ATOM	4749	HB2	ASP	X	316	21.661	38.031	37.984	0.00	0.00
ATOM	4750	HB3	ASP	X	316	22.563	39.544	38.319	0.00	0.00
ATOM	4751	CG	ASP	X	316	21.653	39.377	36.322	0.00	0.00
ATOM	4752	OD1	ASP	X	316	21.855	38.819	35.185	0.00	0.00
ATOM	4753	OD2	ASP	X	316	20.770	40.240	36.407	0.00	0.00
ATOM	4754	C	ASP	X	316	24.593	39.095	36.477	0.00	0.00
ATOM	4755	O	ASP	X	316	24.897	40.050	37.176	0.00	0.00
ATOM	4756	N	PHE	X	317	25.043	38.989	35.232	0.00	0.00
ATOM	4757	H	PHE	X	317	24.917	38.097	34.776	0.00	0.00
ATOM	4758	CA	PHE	X	317	26.191	39.720	34.761	0.00	0.00
ATOM	4759	HA	PHE	X	317	26.275	40.611	35.382	0.00	0.00
ATOM	4760	CB	PHE	X	317	27.388	38.825	34.987	0.00	0.00
ATOM	4761	HB2	PHE	X	317	27.372	37.910	34.395	0.00	0.00
ATOM	4762	HB3	PHE	X	317	28.212	39.361	34.515	0.00	0.00
ATOM	4763	CG	PHE	X	317	27.703	38.585	36.487	0.00	0.00
ATOM	4764	CD1	PHE	X	317	27.778	39.646	37.466	0.00	0.00
ATOM	4765	HD1	PHE	X	317	27.619	40.687	37.224	0.00	0.00
ATOM	4766	CE1	PHE	X	317	27.929	39.434	38.818	0.00	0.00
ATOM	4767	HE1	PHE	X	317	27.887	40.301	39.461	0.00	0.00
ATOM	4768	CZ	PHE	X	317	27.913	38.124	39.308	0.00	0.00
ATOM	4769	HZ	PHE	X	317	27.975	37.996	40.379	0.00	0.00
ATOM	4770	CE2	PHE	X	317	27.812	37.040	38.386	0.00	0.00
ATOM	4771	HE2	PHE	X	317	27.739	36.026	38.753	0.00	0.00
ATOM	4772	CD2	PHE	X	317	27.700	37.285	36.999	0.00	0.00
ATOM	4773	HD2	PHE	X	317	27.474	36.489	36.304	0.00	0.00
ATOM	4774	C	PHE	X	317	25.962	40.243	33.295	0.00	0.00
ATOM	4775	O	PHE	X	317	26.910	40.885	32.784	0.00	0.00
ATOM	4776	N	HIE	X	318	24.830	40.062	32.657	0.00	0.00
ATOM	4777	H	HIE	X	318	24.164	39.421	33.063	0.00	0.00
ATOM	4778	CA	HIE	X	318	24.450	40.818	31.462	0.00	0.00
ATOM	4779	HA	HIE	X	318	25.070	40.490	30.629	0.00	0.00
ATOM	4780	CB	HIE	X	318	22.985	40.496	31.029	0.00	0.00
ATOM	4781	HB2	HIE	X	318	22.846	39.418	30.954	0.00	0.00
ATOM	4782	HB3	HIE	X	318	22.260	40.896	31.739	0.00	0.00
ATOM	4783	CG	HIE	X	318	22.698	41.117	29.687	0.00	0.00
ATOM	4784	ND1	HIE	X	318	23.456	40.881	28.551	0.00	0.00
ATOM	4785	CE1	HIE	X	318	22.998	41.661	27.581	0.00	0.00
ATOM	4786	HE1	HIE	X	318	23.329	41.544	26.559	0.00	0.00
ATOM	4787	NE2	HIE	X	318	22.035	42.485	28.127	0.00	0.00
ATOM	4788	HE2	HIE	X	318	21.586	43.224	27.604	0.00	0.00
ATOM	4789	CD2	HIE	X	318	21.912	42.186	29.451	0.00	0.00
ATOM	4790	HD2	HIE	X	318	21.288	42.678	30.183	0.00	0.00
ATOM	4791	C	HIE	X	318	24.651	42.355	31.587	0.00	0.00
ATOM	4792	O	HIE	X	318	24.162	42.984	32.529	0.00	0.00
ATOM	4793	N	GLY	X	319	25.313	42.903	30.549	0.00	0.00
ATOM	4794	H	GLY	X	319	25.548	42.306	29.769	0.00	0.00
ATOM	4795	CA	GLY	X	319	25.689	44.341	30.534	0.00	0.00
ATOM	4796	HA2	GLY	X	319	25.596	44.527	29.468	0.00	0.00
ATOM	4797	HA3	GLY	X	319	24.986	44.929	31.101	0.00	0.00

ATOM	4798	C	GLY	X	319	27.109	44.691	31.050	0.00	0.00
ATOM	4799	O	GLY	X	319	27.434	45.864	31.018	0.00	0.00
ATOM	4800	N	LEU	X	320	27.983	43.669	31.336	0.00	0.00
ATOM	4801	H	LEU	X	320	27.579	42.747	31.248	0.00	0.00
ATOM	4802	CA	LEU	X	320	29.387	43.856	31.726	0.00	0.00
ATOM	4803	HA	LEU	X	320	29.694	44.887	31.905	0.00	0.00
ATOM	4804	CB	LEU	X	320	29.726	43.034	32.977	0.00	0.00
ATOM	4805	HB2	LEU	X	320	29.175	42.114	32.784	0.00	0.00
ATOM	4806	HB3	LEU	X	320	30.789	42.794	33.000	0.00	0.00
ATOM	4807	CG	LEU	X	320	29.430	43.618	34.356	0.00	0.00
ATOM	4808	HG	LEU	X	320	28.356	43.736	34.500	0.00	0.00
ATOM	4809	CD1	LEU	X	320	29.941	42.623	35.434	0.00	0.00
ATOM	4810	HD11	LEU	X	320	29.643	42.912	36.442	0.00	0.00
ATOM	4811	HD12	LEU	X	320	29.585	41.611	35.238	0.00	0.00
ATOM	4812	HD13	LEU	X	320	31.005	42.478	35.250	0.00	0.00
ATOM	4813	CD2	LEU	X	320	30.025	45.028	34.614	0.00	0.00
ATOM	4814	HD21	LEU	X	320	31.107	45.018	34.483	0.00	0.00
ATOM	4815	HD22	LEU	X	320	29.400	45.762	34.105	0.00	0.00
ATOM	4816	HD23	LEU	X	320	29.728	45.237	35.642	0.00	0.00
ATOM	4817	C	LEU	X	320	30.275	43.512	30.546	0.00	0.00
ATOM	4818	O	LEU	X	320	29.912	42.660	29.730	0.00	0.00
ATOM	4819	N	GLN	X	321	31.307	44.269	30.275	0.00	0.00
ATOM	4820	H	GLN	X	321	31.395	45.075	30.877	0.00	0.00
ATOM	4821	CA	GLN	X	321	32.315	44.117	29.333	0.00	0.00
ATOM	4822	HA	GLN	X	321	32.148	43.351	28.576	0.00	0.00
ATOM	4823	CB	GLN	X	321	32.527	45.464	28.679	0.00	0.00
ATOM	4824	HB2	GLN	X	321	32.658	46.179	29.491	0.00	0.00
ATOM	4825	HB3	GLN	X	321	33.448	45.422	28.097	0.00	0.00
ATOM	4826	CG	GLN	X	321	31.449	45.951	27.778	0.00	0.00
ATOM	4827	HG2	GLN	X	321	31.241	45.169	27.048	0.00	0.00
ATOM	4828	HG3	GLN	X	321	30.521	46.041	28.344	0.00	0.00
ATOM	4829	CD	GLN	X	321	31.666	47.258	27.036	0.00	0.00
ATOM	4830	OE1	GLN	X	321	32.607	48.050	27.205	0.00	0.00
ATOM	4831	NE2	GLN	X	321	30.794	47.692	26.130	0.00	0.00
ATOM	4832	HE21	GLN	X	321	30.995	48.635	25.829	0.00	0.00
ATOM	4833	HE22	GLN	X	321	29.887	47.254	26.061	0.00	0.00
ATOM	4834	C	GLN	X	321	33.546	43.857	30.213	0.00	0.00
ATOM	4835	O	GLN	X	321	33.918	44.693	30.999	0.00	0.00
ATOM	4836	N	VAL	X	322	34.196	42.667	30.080	0.00	0.00
ATOM	4837	H	VAL	X	322	33.807	41.973	29.458	0.00	0.00
ATOM	4838	CA	VAL	X	322	35.224	42.182	31.004	0.00	0.00
ATOM	4839	HA	VAL	X	322	35.497	43.047	31.608	0.00	0.00
ATOM	4840	CB	VAL	X	322	34.742	41.009	31.912	0.00	0.00
ATOM	4841	HB	VAL	X	322	34.477	40.209	31.222	0.00	0.00
ATOM	4842	CG1	VAL	X	322	35.684	40.467	32.938	0.00	0.00
ATOM	4843	HG11	VAL	X	322	35.248	40.577	33.931	0.00	0.00
ATOM	4844	HG12	VAL	X	322	35.935	39.411	32.840	0.00	0.00
ATOM	4845	HG13	VAL	X	322	36.597	41.046	33.074	0.00	0.00
ATOM	4846	CG2	VAL	X	322	33.381	41.329	32.614	0.00	0.00
ATOM	4847	HG21	VAL	X	322	32.642	41.771	31.945	0.00	0.00
ATOM	4848	HG22	VAL	X	322	32.846	40.451	32.976	0.00	0.00
ATOM	4849	HG23	VAL	X	322	33.408	41.964	33.500	0.00	0.00
ATOM	4850	C	VAL	X	322	36.481	41.665	30.197	0.00	0.00
ATOM	4851	O	VAL	X	322	36.317	40.972	29.170	0.00	0.00
ATOM	4852	N	LEU	X	323	37.749	41.757	30.633	0.00	0.00
ATOM	4853	H	LEU	X	323	37.882	42.324	31.459	0.00	0.00
ATOM	4854	CA	LEU	X	323	38.864	41.018	30.062	0.00	0.00
ATOM	4855	HA	LEU	X	323	38.508	40.313	29.311	0.00	0.00
ATOM	4856	CB	LEU	X	323	39.814	42.048	29.431	0.00	0.00
ATOM	4857	HB2	LEU	X	323	39.240	42.653	28.730	0.00	0.00
ATOM	4858	HB3	LEU	X	323	40.256	42.587	30.269	0.00	0.00
ATOM	4859	CG	LEU	X	323	40.964	41.486	28.555	0.00	0.00
ATOM	4860	HG	LEU	X	323	40.659	40.732	27.829	0.00	0.00
ATOM	4861	CD1	LEU	X	323	41.406	42.711	27.753	0.00	0.00
ATOM	4862	HD11	LEU	X	323	41.635	43.494	28.476	0.00	0.00
ATOM	4863	HD12	LEU	X	323	42.314	42.446	27.211	0.00	0.00
ATOM	4864	HD13	LEU	X	323	40.607	43.084	27.113	0.00	0.00
ATOM	4865	CD2	LEU	X	323	42.223	41.045	29.312	0.00	0.00
ATOM	4866	HD21	LEU	X	323	42.116	39.968	29.440	0.00	0.00
ATOM	4867	HD22	LEU	X	323	43.190	41.324	28.892	0.00	0.00

ATOM	4868	HD23	LEU	X	323	42.180	41.353	30.357	0.00	0.00
ATOM	4869	C	LEU	X	323	39.572	40.267	31.220	0.00	0.00
ATOM	4870	O	LEU	X	323	39.697	40.810	32.336	0.00	0.00
ATOM	4871	N	VAL	X	324	39.911	38.978	31.048	0.00	0.00
ATOM	4872	H	VAL	X	324	39.777	38.493	30.172	0.00	0.00
ATOM	4873	CA	VAL	X	324	40.521	38.127	32.107	0.00	0.00
ATOM	4874	HA	VAL	X	324	40.808	38.733	32.967	0.00	0.00
ATOM	4875	CB	VAL	X	324	39.691	36.979	32.605	0.00	0.00
ATOM	4876	HB	VAL	X	324	40.295	36.417	33.318	0.00	0.00
ATOM	4877	CG1	VAL	X	324	38.415	37.529	33.218	0.00	0.00
ATOM	4878	HG11	VAL	X	324	38.642	38.205	34.043	0.00	0.00
ATOM	4879	HG12	VAL	X	324	37.683	37.905	32.503	0.00	0.00
ATOM	4880	HG13	VAL	X	324	37.897	36.751	33.778	0.00	0.00
ATOM	4881	CG2	VAL	X	324	39.096	35.937	31.588	0.00	0.00
ATOM	4882	HG21	VAL	X	324	38.224	35.437	32.009	0.00	0.00
ATOM	4883	HG22	VAL	X	324	38.830	36.446	30.661	0.00	0.00
ATOM	4884	HG23	VAL	X	324	39.852	35.229	31.250	0.00	0.00
ATOM	4885	C	VAL	X	324	41.786	37.410	31.607	0.00	0.00
ATOM	4886	O	VAL	X	324	41.832	36.974	30.497	0.00	0.00
ATOM	4887	N	GLY	X	325	42.897	37.242	32.370	0.00	0.00
ATOM	4888	H	GLY	X	325	42.878	37.609	33.311	0.00	0.00
ATOM	4889	CA	GLY	X	325	44.027	36.374	32.007	0.00	0.00
ATOM	4890	HA2	GLY	X	325	43.660	35.393	32.059	0.00	0.00
ATOM	4891	HA3	GLY	X	325	44.298	36.559	30.998	0.00	0.00
ATOM	4892	C	GLY	X	325	45.140	36.470	33.005	0.00	0.00
ATOM	4893	O	GLY	X	325	44.968	36.804	34.178	0.00	0.00
ATOM	4894	N	VAL	X	326	46.282	35.923	32.620	0.00	0.00
ATOM	4895	H	VAL	X	326	46.314	35.675	31.641	0.00	0.00
ATOM	4896	CA	VAL	X	326	47.459	35.501	33.408	0.00	0.00
ATOM	4897	HA	VAL	X	326	47.629	36.234	34.197	0.00	0.00
ATOM	4898	CB	VAL	X	326	47.247	34.080	34.019	0.00	0.00
ATOM	4899	HB	VAL	X	326	48.196	33.668	34.360	0.00	0.00
ATOM	4900	CG1	VAL	X	326	46.268	34.027	35.242	0.00	0.00
ATOM	4901	HG11	VAL	X	326	46.438	34.963	35.775	0.00	0.00
ATOM	4902	HG12	VAL	X	326	45.223	34.012	34.932	0.00	0.00
ATOM	4903	HG13	VAL	X	326	46.504	33.149	35.844	0.00	0.00
ATOM	4904	CG2	VAL	X	326	46.833	33.039	32.912	0.00	0.00
ATOM	4905	HG21	VAL	X	326	47.680	32.947	32.231	0.00	0.00
ATOM	4906	HG22	VAL	X	326	46.485	32.163	33.458	0.00	0.00
ATOM	4907	HG23	VAL	X	326	46.051	33.376	32.232	0.00	0.00
ATOM	4908	C	VAL	X	326	48.678	35.464	32.468	0.00	0.00
ATOM	4909	O	VAL	X	326	48.484	35.550	31.264	0.00	0.00
ATOM	4910	N	VAL	X	327	49.815	35.113	33.040	0.00	0.00
ATOM	4911	H	VAL	X	327	49.781	35.199	34.046	0.00	0.00
ATOM	4912	CA	VAL	X	327	51.095	34.697	32.507	0.00	0.00
ATOM	4913	HA	VAL	X	327	51.092	35.044	31.474	0.00	0.00
ATOM	4914	CB	VAL	X	327	52.291	35.526	33.107	0.00	0.00
ATOM	4915	HB	VAL	X	327	53.098	35.515	32.374	0.00	0.00
ATOM	4916	CG1	VAL	X	327	51.855	36.981	33.223	0.00	0.00
ATOM	4917	HG11	VAL	X	327	51.214	37.167	34.084	0.00	0.00
ATOM	4918	HG12	VAL	X	327	52.752	37.585	33.360	0.00	0.00
ATOM	4919	HG13	VAL	X	327	51.355	37.247	32.292	0.00	0.00
ATOM	4920	CG2	VAL	X	327	52.768	34.959	34.397	0.00	0.00
ATOM	4921	HG21	VAL	X	327	52.073	35.188	35.205	0.00	0.00
ATOM	4922	HG22	VAL	X	327	52.719	33.874	34.315	0.00	0.00
ATOM	4923	HG23	VAL	X	327	53.790	35.296	34.571	0.00	0.00
ATOM	4924	C	VAL	X	327	51.279	33.186	32.463	0.00	0.00
ATOM	4925	O	VAL	X	327	50.435	32.386	32.873	0.00	0.00
ATOM	4926	N	LYS	X	328	52.344	32.697	31.856	0.00	0.00
ATOM	4927	H	LYS	X	328	53.001	33.337	31.432	0.00	0.00
ATOM	4928	CA	LYS	X	328	52.589	31.172	31.630	0.00	0.00
ATOM	4929	HA	LYS	X	328	51.761	30.912	30.971	0.00	0.00
ATOM	4930	CB	LYS	X	328	53.842	30.994	30.792	0.00	0.00
ATOM	4931	HB2	LYS	X	328	53.940	31.789	30.054	0.00	0.00
ATOM	4932	HB3	LYS	X	328	54.693	30.998	31.473	0.00	0.00
ATOM	4933	CG	LYS	X	328	53.756	29.613	30.074	0.00	0.00
ATOM	4934	HG2	LYS	X	328	53.503	28.855	30.815	0.00	0.00
ATOM	4935	HG3	LYS	X	328	52.974	29.540	29.317	0.00	0.00
ATOM	4936	CD	LYS	X	328	55.128	29.299	29.480	0.00	0.00
ATOM	4937	HD2	LYS	X	328	55.182	29.738	28.483	0.00	0.00

ATOM	4938	HD3	LYS	X	328	55.941	29.718	30.073	0.00	0.00
ATOM	4939	CE	LYS	X	328	55.442	27.754	29.372	0.00	0.00
ATOM	4940	HE2	LYS	X	328	54.758	27.190	28.738	0.00	0.00
ATOM	4941	HE3	LYS	X	328	56.474	27.698	29.025	0.00	0.00
ATOM	4942	NZ	LYS	X	328	55.450	27.054	30.708	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	56.115	27.518	31.310	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	54.546	27.023	31.157	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	55.776	26.101	30.629	0.00	0.00
ATOM	4946	C	LYS	X	328	52.651	30.400	32.986	0.00	0.00
ATOM	4947	O	LYS	X	328	52.208	29.265	33.037	0.00	0.00
ATOM	4948	N	ASP	X	329	53.284	30.992	34.011	0.00	0.00
ATOM	4949	H	ASP	X	329	53.518	31.967	33.890	0.00	0.00
ATOM	4950	CA	ASP	X	329	53.738	30.415	35.214	0.00	0.00
ATOM	4951	HA	ASP	X	329	53.117	29.563	35.491	0.00	0.00
ATOM	4952	CB	ASP	X	329	55.164	29.830	35.137	0.00	0.00
ATOM	4953	HB2	ASP	X	329	55.995	30.518	35.291	0.00	0.00
ATOM	4954	HB3	ASP	X	329	55.235	29.104	35.947	0.00	0.00
ATOM	4955	CG	ASP	X	329	55.509	29.115	33.804	0.00	0.00
ATOM	4956	OD1	ASP	X	329	54.954	28.047	33.589	0.00	0.00
ATOM	4957	OD2	ASP	X	329	56.206	29.697	32.957	0.00	0.00
ATOM	4958	C	ASP	X	329	53.693	31.329	36.442	0.00	0.00
ATOM	4959	O	ASP	X	329	54.703	31.765	37.043	0.00	0.00
ATOM	4960	N	GLU	X	330	52.423	31.511	36.883	0.00	0.00
ATOM	4961	H	GLU	X	330	51.705	31.243	36.225	0.00	0.00
ATOM	4962	CA	GLU	X	330	52.038	32.301	38.052	0.00	0.00
ATOM	4963	HA	GLU	X	330	52.360	33.312	37.803	0.00	0.00
ATOM	4964	CB	GLU	X	330	50.542	32.237	38.220	0.00	0.00
ATOM	4965	HB2	GLU	X	330	50.212	31.206	38.347	0.00	0.00
ATOM	4966	HB3	GLU	X	330	50.315	32.785	39.135	0.00	0.00
ATOM	4967	CG	GLU	X	330	49.780	32.901	37.041	0.00	0.00
ATOM	4968	HG2	GLU	X	330	49.989	32.332	36.135	0.00	0.00
ATOM	4969	HG3	GLU	X	330	48.772	32.841	37.453	0.00	0.00
ATOM	4970	CD	GLU	X	330	49.991	34.399	36.935	0.00	0.00
ATOM	4971	OE1	GLU	X	330	50.495	35.103	37.829	0.00	0.00
ATOM	4972	OE2	GLU	X	330	49.549	34.970	35.881	0.00	0.00
ATOM	4973	C	GLU	X	330	52.668	31.763	39.415	0.00	0.00
ATOM	4974	O	GLU	X	330	53.231	32.518	40.252	0.00	0.00
ATOM	4975	N	GLY	X	331	52.842	30.438	39.495	0.00	0.00
ATOM	4976	H	GLY	X	331	52.515	29.907	38.700	0.00	0.00
ATOM	4977	CA	GLY	X	331	53.075	29.731	40.777	0.00	0.00
ATOM	4978	HA2	GLY	X	331	52.533	30.238	41.526	0.00	0.00
ATOM	4979	HA3	GLY	X	331	52.699	28.751	40.737	0.00	0.00
ATOM	4980	C	GLY	X	331	54.546	29.653	41.182	0.00	0.00
ATOM	4981	O	GLY	X	331	54.763	29.392	42.386	0.00	0.00
ATOM	4982	N	SER	X	332	55.498	29.990	40.334	0.00	0.00
ATOM	4983	H	SER	X	332	55.263	30.051	39.354	0.00	0.00
ATOM	4984	CA	SER	X	332	56.921	29.935	40.715	0.00	0.00
ATOM	4985	HA	SER	X	332	57.262	29.045	41.244	0.00	0.00
ATOM	4986	CB	SER	X	332	57.697	30.148	39.387	0.00	0.00
ATOM	4987	HB2	SER	X	332	57.664	31.189	39.065	0.00	0.00
ATOM	4988	HB3	SER	X	332	58.730	29.938	39.661	0.00	0.00
ATOM	4989	OG	SER	X	332	57.263	29.330	38.244	0.00	0.00
ATOM	4990	HG	SER	X	332	57.720	29.649	37.462	0.00	0.00
ATOM	4991	C	SER	X	332	57.250	31.061	41.767	0.00	0.00
ATOM	4992	O	SER	X	332	58.288	30.890	42.426	0.00	0.00
ATOM	4993	N	TYR	X	333	56.497	32.188	41.837	0.00	0.00
ATOM	4994	H	TYR	X	333	55.670	32.242	41.259	0.00	0.00
ATOM	4995	CA	TYR	X	333	56.765	33.393	42.633	0.00	0.00
ATOM	4996	HA	TYR	X	333	57.844	33.535	42.701	0.00	0.00
ATOM	4997	CB	TYR	X	333	56.037	34.524	41.976	0.00	0.00
ATOM	4998	HB2	TYR	X	333	56.575	34.648	41.036	0.00	0.00
ATOM	4999	HB3	TYR	X	333	55.047	34.306	41.575	0.00	0.00
ATOM	5000	CG	TYR	X	333	55.959	35.761	42.698	0.00	0.00
ATOM	5001	CD1	TYR	X	333	54.676	36.370	42.975	0.00	0.00
ATOM	5002	HD1	TYR	X	333	53.759	35.881	42.679	0.00	0.00
ATOM	5003	CE1	TYR	X	333	54.545	37.702	43.525	0.00	0.00
ATOM	5004	HE1	TYR	X	333	53.585	38.061	43.867	0.00	0.00
ATOM	5005	CZ	TYR	X	333	55.723	38.274	43.940	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.596	39.524	44.404	0.00	0.00
ATOM	5007	HH	TYR	X	333	54.690	39.789	44.579	0.00	0.00

ATOM	5008	CE2	TYR	X	333	56.985	37.774	43.586	0.00	0.00
ATOM	5009	HE2	TYR	X	333	57.791	38.431	43.875	0.00	0.00
ATOM	5010	CD2	TYR	X	333	57.114	36.533	42.909	0.00	0.00
ATOM	5011	HD2	TYR	X	333	58.041	36.121	42.539	0.00	0.00
ATOM	5012	C	TYR	X	333	56.196	33.229	44.091	0.00	0.00
ATOM	5013	O	TYR	X	333	56.944	33.331	45.094	0.00	0.00
ATOM	5014	N	PHE	X	334	54.988	32.709	44.175	0.00	0.00
ATOM	5015	H	PHE	X	334	54.462	32.599	43.320	0.00	0.00
ATOM	5016	CA	PHE	X	334	54.380	32.228	45.449	0.00	0.00
ATOM	5017	HA	PHE	X	334	54.303	33.102	46.095	0.00	0.00
ATOM	5018	CB	PHE	X	334	53.055	31.547	45.213	0.00	0.00
ATOM	5019	HB2	PHE	X	334	53.246	30.765	44.479	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.693	31.040	46.108	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.956	32.412	44.724	0.00	0.00
ATOM	5022	CD1	PHE	X	334	50.712	32.376	45.416	0.00	0.00
ATOM	5023	HD1	PHE	X	334	50.595	31.666	46.222	0.00	0.00
ATOM	5024	CE1	PHE	X	334	49.707	33.268	45.173	0.00	0.00
ATOM	5025	HE1	PHE	X	334	48.807	33.225	45.769	0.00	0.00
ATOM	5026	CZ	PHE	X	334	49.865	34.154	44.043	0.00	0.00
ATOM	5027	HZ	PHE	X	334	49.011	34.767	43.796	0.00	0.00
ATOM	5028	CE2	PHE	X	334	51.069	34.137	43.244	0.00	0.00
ATOM	5029	HE2	PHE	X	334	51.124	34.648	42.294	0.00	0.00
ATOM	5030	CD2	PHE	X	334	52.084	33.245	43.578	0.00	0.00
ATOM	5031	HD2	PHE	X	334	52.863	33.116	42.841	0.00	0.00
ATOM	5032	C	PHE	X	334	55.165	31.053	46.172	0.00	0.00
ATOM	5033	O	PHE	X	334	55.167	30.979	47.400	0.00	0.00
ATOM	5034	N	LEU	X	335	55.959	30.302	45.402	0.00	0.00
ATOM	5035	H	LEU	X	335	55.848	30.361	44.399	0.00	0.00
ATOM	5036	CA	LEU	X	335	57.084	29.585	45.929	0.00	0.00
ATOM	5037	HA	LEU	X	335	56.688	29.206	46.871	0.00	0.00
ATOM	5038	CB	LEU	X	335	57.463	28.464	44.954	0.00	0.00
ATOM	5039	HB2	LEU	X	335	57.724	28.885	43.983	0.00	0.00
ATOM	5040	HB3	LEU	X	335	58.413	28.041	45.278	0.00	0.00
ATOM	5041	CG	LEU	X	335	56.421	27.318	44.886	0.00	0.00
ATOM	5042	HG	LEU	X	335	55.509	27.730	44.453	0.00	0.00
ATOM	5043	CD1	LEU	X	335	56.948	26.313	43.847	0.00	0.00
ATOM	5044	HD11	LEU	X	335	56.204	25.526	43.722	0.00	0.00
ATOM	5045	HD12	LEU	X	335	57.191	26.829	42.918	0.00	0.00
ATOM	5046	HD13	LEU	X	335	57.862	25.856	44.224	0.00	0.00
ATOM	5047	CD2	LEU	X	335	55.995	26.758	46.255	0.00	0.00
ATOM	5048	HD21	LEU	X	335	56.874	26.529	46.857	0.00	0.00
ATOM	5049	HD22	LEU	X	335	55.305	27.400	46.804	0.00	0.00
ATOM	5050	HD23	LEU	X	335	55.486	25.795	46.208	0.00	0.00
ATOM	5051	C	LEU	X	335	58.261	30.523	46.309	0.00	0.00
ATOM	5052	O	LEU	X	335	58.329	30.788	47.480	0.00	0.00
ATOM	5053	N	VAL	X	336	59.166	30.897	45.421	0.00	0.00
ATOM	5054	H	VAL	X	336	58.905	30.867	44.446	0.00	0.00
ATOM	5055	CA	VAL	X	336	60.528	31.349	45.777	0.00	0.00
ATOM	5056	HA	VAL	X	336	60.807	30.589	46.506	0.00	0.00
ATOM	5057	CB	VAL	X	336	61.578	31.099	44.645	0.00	0.00
ATOM	5058	HB	VAL	X	336	62.564	30.890	45.060	0.00	0.00
ATOM	5059	CG1	VAL	X	336	61.157	29.814	43.830	0.00	0.00
ATOM	5060	HG11	VAL	X	336	60.476	30.030	43.007	0.00	0.00
ATOM	5061	HG12	VAL	X	336	62.081	29.359	43.472	0.00	0.00
ATOM	5062	HG13	VAL	X	336	60.694	29.036	44.437	0.00	0.00
ATOM	5063	CG2	VAL	X	336	61.502	32.345	43.698	0.00	0.00
ATOM	5064	HG21	VAL	X	336	61.981	32.182	42.733	0.00	0.00
ATOM	5065	HG22	VAL	X	336	60.484	32.596	43.399	0.00	0.00
ATOM	5066	HG23	VAL	X	336	61.930	33.193	44.234	0.00	0.00
ATOM	5067	C	VAL	X	336	60.541	32.638	46.588	0.00	0.00
ATOM	5068	O	VAL	X	336	61.643	32.899	47.000	0.00	0.00
ATOM	5069	N	TYR	X	337	59.464	33.389	46.776	0.00	0.00
ATOM	5070	H	TYR	X	337	58.679	33.115	46.203	0.00	0.00
ATOM	5071	CA	TYR	X	337	59.472	34.577	47.713	0.00	0.00
ATOM	5072	HA	TYR	X	337	60.487	34.966	47.782	0.00	0.00
ATOM	5073	CB	TYR	X	337	58.860	35.704	46.884	0.00	0.00
ATOM	5074	HB2	TYR	X	337	59.386	35.709	45.929	0.00	0.00
ATOM	5075	HB3	TYR	X	337	57.843	35.591	46.508	0.00	0.00
ATOM	5076	CG	TYR	X	337	59.002	37.107	47.498	0.00	0.00
ATOM	5077	CD1	TYR	X	337	59.958	37.384	48.515	0.00	0.00

ATOM	5078	HD1	TYR	X	337	60.754	36.722	48.825	0.00	0.00
ATOM	5079	CE1	TYR	X	337	59.968	38.576	49.228	0.00	0.00
ATOM	5080	HE1	TYR	X	337	60.694	38.814	49.992	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.922	39.487	48.948	0.00	0.00
ATOM	5082	OH	TYR	X	337	58.943	40.704	49.572	0.00	0.00
ATOM	5083	HH	TYR	X	337	59.762	40.725	50.072	0.00	0.00
ATOM	5084	CE2	TYR	X	337	57.900	39.258	47.963	0.00	0.00
ATOM	5085	HE2	TYR	X	337	57.251	40.088	47.727	0.00	0.00
ATOM	5086	CD2	TYR	X	337	57.928	38.022	47.301	0.00	0.00
ATOM	5087	HD2	TYR	X	337	57.040	37.843	46.713	0.00	0.00
ATOM	5088	C	TYR	X	337	58.778	34.286	49.019	0.00	0.00
ATOM	5089	O	TYR	X	337	58.663	35.027	49.994	0.00	0.00
ATOM	5090	N	GLY	X	338	58.070	33.147	49.118	0.00	0.00
ATOM	5091	H	GLY	X	338	58.199	32.494	48.358	0.00	0.00
ATOM	5092	CA	GLY	X	338	57.248	32.731	50.224	0.00	0.00
ATOM	5093	HA2	GLY	X	338	57.112	33.545	50.889	0.00	0.00
ATOM	5094	HA3	GLY	X	338	56.318	32.484	49.744	0.00	0.00
ATOM	5095	C	GLY	X	338	57.838	31.471	50.974	0.00	0.00
ATOM	5096	O	GLY	X	338	57.779	31.374	52.228	0.00	0.00
ATOM	5097	N	ALA	X	339	58.106	30.429	50.198	0.00	0.00
ATOM	5098	H	ALA	X	339	57.974	30.714	49.238	0.00	0.00
ATOM	5099	CA	ALA	X	339	58.480	29.077	50.585	0.00	0.00
ATOM	5100	HA	ALA	X	339	57.865	28.843	51.455	0.00	0.00
ATOM	5101	CB	ALA	X	339	58.118	28.043	49.443	0.00	0.00
ATOM	5102	HB1	ALA	X	339	58.771	28.252	48.596	0.00	0.00
ATOM	5103	HB2	ALA	X	339	58.220	27.039	49.854	0.00	0.00
ATOM	5104	HB3	ALA	X	339	57.106	28.146	49.051	0.00	0.00
ATOM	5105	C	ALA	X	339	59.962	28.867	51.056	0.00	0.00
ATOM	5106	O	ALA	X	339	60.873	29.210	50.321	0.00	0.00
ATOM	5107	N	PRO	X	340	60.183	28.305	52.273	0.00	0.00
ATOM	5108	CD	PRO	X	340	59.154	27.745	53.217	0.00	0.00
ATOM	5109	HD2	PRO	X	340	58.672	26.852	52.819	0.00	0.00
ATOM	5110	HD3	PRO	X	340	58.476	28.569	53.444	0.00	0.00
ATOM	5111	CG	PRO	X	340	59.844	27.287	54.430	0.00	0.00
ATOM	5112	HG2	PRO	X	340	60.090	26.228	54.353	0.00	0.00
ATOM	5113	HG3	PRO	X	340	59.226	27.454	55.313	0.00	0.00
ATOM	5114	CB	PRO	X	340	61.158	28.080	54.406	0.00	0.00
ATOM	5115	HB2	PRO	X	340	61.949	27.619	54.998	0.00	0.00
ATOM	5116	HB3	PRO	X	340	60.910	29.056	54.825	0.00	0.00
ATOM	5117	CA	PRO	X	340	61.467	28.242	52.931	0.00	0.00
ATOM	5118	HA	PRO	X	340	61.943	29.220	52.862	0.00	0.00
ATOM	5119	C	PRO	X	340	62.294	27.146	52.272	0.00	0.00
ATOM	5120	O	PRO	X	340	61.738	26.107	51.959	0.00	0.00
ATOM	5121	N	GLY	X	341	63.609	27.314	52.156	0.00	0.00
ATOM	5122	H	GLY	X	341	64.091	28.101	52.565	0.00	0.00
ATOM	5123	CA	GLY	X	341	64.401	26.260	51.464	0.00	0.00
ATOM	5124	HA2	GLY	X	341	65.392	26.197	51.933	0.00	0.00
ATOM	5125	HA3	GLY	X	341	63.838	25.339	51.534	0.00	0.00
ATOM	5126	C	GLY	X	341	64.493	26.573	49.959	0.00	0.00
ATOM	5127	O	GLY	X	341	65.495	26.193	49.377	0.00	0.00
ATOM	5128	N	PHE	X	342	63.640	27.365	49.354	0.00	0.00
ATOM	5129	H	PHE	X	342	62.837	27.705	49.865	0.00	0.00
ATOM	5130	CA	PHE	X	342	63.672	27.729	47.898	0.00	0.00
ATOM	5131	HA	PHE	X	342	64.233	26.986	47.331	0.00	0.00
ATOM	5132	CB	PHE	X	342	62.282	27.679	47.287	0.00	0.00
ATOM	5133	HB2	PHE	X	342	61.688	28.425	47.816	0.00	0.00
ATOM	5134	HB3	PHE	X	342	62.330	27.929	46.227	0.00	0.00
ATOM	5135	CG	PHE	X	342	61.542	26.334	47.292	0.00	0.00
ATOM	5136	CD1	PHE	X	342	61.634	25.537	46.090	0.00	0.00
ATOM	5137	HD1	PHE	X	342	62.300	25.758	45.269	0.00	0.00
ATOM	5138	CE1	PHE	X	342	60.846	24.392	46.038	0.00	0.00
ATOM	5139	HE1	PHE	X	342	60.924	23.745	45.177	0.00	0.00
ATOM	5140	CZ	PHE	X	342	60.076	23.984	47.193	0.00	0.00
ATOM	5141	HZ	PHE	X	342	59.607	23.017	47.087	0.00	0.00
ATOM	5142	CE2	PHE	X	342	59.975	24.770	48.404	0.00	0.00
ATOM	5143	HE2	PHE	X	342	59.326	24.402	49.186	0.00	0.00
ATOM	5144	CD2	PHE	X	342	60.753	25.965	48.402	0.00	0.00
ATOM	5145	HD2	PHE	X	342	60.608	26.620	49.249	0.00	0.00
ATOM	5146	C	PHE	X	342	64.386	29.068	47.736	0.00	0.00
ATOM	5147	O	PHE	X	342	64.296	29.972	48.605	0.00	0.00

ATOM	5148	N	SER	X	343	65.104	29.279	46.625	0.00	0.00
ATOM	5149	H	SER	X	343	65.136	28.573	45.902	0.00	0.00
ATOM	5150	CA	SER	X	343	65.959	30.440	46.389	0.00	0.00
ATOM	5151	HA	SER	X	343	65.596	31.338	46.888	0.00	0.00
ATOM	5152	CB	SER	X	343	67.257	29.964	46.970	0.00	0.00
ATOM	5153	HB2	SER	X	343	66.969	29.991	48.021	0.00	0.00
ATOM	5154	HB3	SER	X	343	67.441	28.946	46.627	0.00	0.00
ATOM	5155	OG	SER	X	343	68.292	30.896	46.656	0.00	0.00
ATOM	5156	HG	SER	X	343	68.997	30.693	47.275	0.00	0.00
ATOM	5157	C	SER	X	343	66.068	30.694	44.944	0.00	0.00
ATOM	5158	O	SER	X	343	66.035	29.842	44.044	0.00	0.00
ATOM	5159	N	LYS	X	344	66.263	31.991	44.635	0.00	0.00
ATOM	5160	H	LYS	X	344	66.220	32.668	45.384	0.00	0.00
ATOM	5161	CA	LYS	X	344	66.640	32.434	43.278	0.00	0.00
ATOM	5162	HA	LYS	X	344	66.164	31.750	42.576	0.00	0.00
ATOM	5163	CB	LYS	X	344	66.095	33.814	43.047	0.00	0.00
ATOM	5164	HB2	LYS	X	344	66.353	34.068	42.018	0.00	0.00
ATOM	5165	HB3	LYS	X	344	65.009	33.871	43.128	0.00	0.00
ATOM	5166	CG	LYS	X	344	66.666	34.925	43.850	0.00	0.00
ATOM	5167	HG2	LYS	X	344	66.405	34.771	44.897	0.00	0.00
ATOM	5168	HG3	LYS	X	344	67.746	34.783	43.887	0.00	0.00
ATOM	5169	CD	LYS	X	344	66.257	36.400	43.593	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.420	36.522	42.523	0.00	0.00
ATOM	5171	HD3	LYS	X	344	65.208	36.558	43.842	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.987	37.487	44.419	0.00	0.00
ATOM	5173	HE2	LYS	X	344	66.448	38.388	44.127	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.639	37.210	45.414	0.00	0.00
ATOM	5175	NZ	LYS	X	344	68.429	37.543	44.387	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	68.842	36.987	45.123	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	68.850	37.215	43.530	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.796	38.455	44.617	0.00	0.00
ATOM	5179	C	LYS	X	344	68.200	32.346	42.983	0.00	0.00
ATOM	5180	O	LYS	X	344	68.634	32.721	41.930	0.00	0.00
ATOM	5181	N	ASP	X	345	68.983	31.772	43.894	0.00	0.00
ATOM	5182	H	ASP	X	345	68.545	31.505	44.764	0.00	0.00
ATOM	5183	CA	ASP	X	345	70.435	31.617	43.866	0.00	0.00
ATOM	5184	HA	ASP	X	345	70.837	31.906	42.894	0.00	0.00
ATOM	5185	CB	ASP	X	345	70.940	32.625	44.930	0.00	0.00
ATOM	5186	HB2	ASP	X	345	70.712	33.676	44.756	0.00	0.00
ATOM	5187	HB3	ASP	X	345	70.645	32.221	45.899	0.00	0.00
ATOM	5188	CG	ASP	X	345	72.482	32.695	45.099	0.00	0.00
ATOM	5189	OD1	ASP	X	345	73.032	32.102	46.069	0.00	0.00
ATOM	5190	OD2	ASP	X	345	73.252	33.210	44.273	0.00	0.00
ATOM	5191	C	ASP	X	345	70.758	30.100	44.120	0.00	0.00
ATOM	5192	O	ASP	X	345	71.269	29.533	43.163	0.00	0.00
ATOM	5193	N	ASN	X	346	70.539	29.441	45.265	0.00	0.00
ATOM	5194	H	ASN	X	346	70.163	29.886	46.090	0.00	0.00
ATOM	5195	CA	ASN	X	346	70.610	28.016	45.388	0.00	0.00
ATOM	5196	HA	ASN	X	346	71.573	27.663	45.019	0.00	0.00
ATOM	5197	CB	ASN	X	346	70.375	27.583	46.853	0.00	0.00
ATOM	5198	HB2	ASN	X	346	71.141	28.020	47.494	0.00	0.00
ATOM	5199	HB3	ASN	X	346	69.385	27.951	47.122	0.00	0.00
ATOM	5200	CG	ASN	X	346	70.409	26.089	47.060	0.00	0.00
ATOM	5201	OD1	ASN	X	346	69.411	25.469	47.344	0.00	0.00
ATOM	5202	ND2	ASN	X	346	71.538	25.399	46.925	0.00	0.00
ATOM	5203	HD21	ASN	X	346	71.650	24.436	47.207	0.00	0.00
ATOM	5204	HD22	ASN	X	346	72.378	25.898	46.669	0.00	0.00
ATOM	5205	C	ASN	X	346	69.650	27.273	44.471	0.00	0.00
ATOM	5206	O	ASN	X	346	68.515	27.701	44.328	0.00	0.00
ATOM	5207	N	GLU	X	347	70.092	26.095	43.980	0.00	0.00
ATOM	5208	H	GLU	X	347	71.039	25.879	44.256	0.00	0.00
ATOM	5209	CA	GLU	X	347	69.550	25.106	43.037	0.00	0.00
ATOM	5210	HA	GLU	X	347	69.477	25.557	42.047	0.00	0.00
ATOM	5211	CB	GLU	X	347	70.455	23.943	42.844	0.00	0.00
ATOM	5212	HB2	GLU	X	347	70.466	23.310	43.731	0.00	0.00
ATOM	5213	HB3	GLU	X	347	70.064	23.452	41.954	0.00	0.00
ATOM	5214	CG	GLU	X	347	71.964	24.304	42.426	0.00	0.00
ATOM	5215	HG2	GLU	X	347	72.353	23.433	41.898	0.00	0.00
ATOM	5216	HG3	GLU	X	347	71.968	25.170	41.765	0.00	0.00
ATOM	5217	CD	GLU	X	347	72.854	24.659	43.569	0.00	0.00

ATOM	5218	OE1	GLU	X	347	72.789	25.803	44.066	0.00	0.00
ATOM	5219	OE2	GLU	X	347	73.715	23.820	44.023	0.00	0.00
ATOM	5220	C	GLU	X	347	68.179	24.643	43.414	0.00	0.00
ATOM	5221	O	GLU	X	347	67.320	24.341	42.556	0.00	0.00
ATOM	5222	N	SER	X	348	67.944	24.561	44.744	0.00	0.00
ATOM	5223	H	SER	X	348	68.671	24.820	45.395	0.00	0.00
ATOM	5224	CA	SER	X	348	66.543	24.348	45.313	0.00	0.00
ATOM	5225	HA	SER	X	348	66.624	24.361	46.400	0.00	0.00
ATOM	5226	CB	SER	X	348	65.699	25.583	44.877	0.00	0.00
ATOM	5227	HB2	SER	X	348	65.556	25.672	43.800	0.00	0.00
ATOM	5228	HB3	SER	X	348	64.683	25.532	45.267	0.00	0.00
ATOM	5229	OG	SER	X	348	66.105	26.853	45.361	0.00	0.00
ATOM	5230	HG	SER	X	348	66.845	27.241	44.890	0.00	0.00
ATOM	5231	C	SER	X	348	65.914	23.045	44.734	0.00	0.00
ATOM	5232	O	SER	X	348	64.721	22.957	44.614	0.00	0.00
ATOM	5233	N	LEU	X	349	66.742	22.025	44.514	0.00	0.00
ATOM	5234	H	LEU	X	349	67.744	22.154	44.520	0.00	0.00
ATOM	5235	CA	LEU	X	349	66.284	20.648	44.235	0.00	0.00
ATOM	5236	HA	LEU	X	349	65.673	20.712	43.335	0.00	0.00
ATOM	5237	CB	LEU	X	349	67.539	19.818	43.988	0.00	0.00
ATOM	5238	HB2	LEU	X	349	68.050	19.859	44.950	0.00	0.00
ATOM	5239	HB3	LEU	X	349	67.364	18.753	43.835	0.00	0.00
ATOM	5240	CG	LEU	X	349	68.586	20.307	42.986	0.00	0.00
ATOM	5241	HG	LEU	X	349	68.882	21.300	43.321	0.00	0.00
ATOM	5242	CD1	LEU	X	349	69.854	19.476	42.797	0.00	0.00
ATOM	5243	HD11	LEU	X	349	70.355	19.785	41.879	0.00	0.00
ATOM	5244	HD12	LEU	X	349	70.484	19.699	43.658	0.00	0.00
ATOM	5245	HD13	LEU	X	349	69.695	18.398	42.823	0.00	0.00
ATOM	5246	CD2	LEU	X	349	67.984	20.414	41.598	0.00	0.00
ATOM	5247	HD21	LEU	X	349	67.278	21.244	41.565	0.00	0.00
ATOM	5248	HD22	LEU	X	349	68.665	20.823	40.853	0.00	0.00
ATOM	5249	HD23	LEU	X	349	67.430	19.586	41.155	0.00	0.00
ATOM	5250	C	LEU	X	349	65.502	20.033	45.473	0.00	0.00
ATOM	5251	O	LEU	X	349	65.839	20.353	46.594	0.00	0.00
ATOM	5252	N	ILE	X	350	64.444	19.245	45.191	0.00	0.00
ATOM	5253	H	ILE	X	350	64.133	19.279	44.230	0.00	0.00
ATOM	5254	CA	ILE	X	350	63.690	18.597	46.221	0.00	0.00
ATOM	5255	HA	ILE	X	350	64.224	18.629	47.170	0.00	0.00
ATOM	5256	CB	ILE	X	350	62.405	19.339	46.435	0.00	0.00
ATOM	5257	HB	ILE	X	350	61.904	18.834	47.261	0.00	0.00
ATOM	5258	CG2	ILE	X	350	62.619	20.720	47.057	0.00	0.00
ATOM	5259	HG21	ILE	X	350	61.661	21.173	47.312	0.00	0.00
ATOM	5260	HG22	ILE	X	350	63.268	20.574	47.921	0.00	0.00
ATOM	5261	HG23	ILE	X	350	63.218	21.327	46.379	0.00	0.00
ATOM	5262	CG1	ILE	X	350	61.450	19.310	45.269	0.00	0.00
ATOM	5263	HG12	ILE	X	350	61.647	20.077	44.521	0.00	0.00
ATOM	5264	HG13	ILE	X	350	61.508	18.414	44.651	0.00	0.00
ATOM	5265	CD1	ILE	X	350	60.018	19.524	45.669	0.00	0.00
ATOM	5266	HD11	ILE	X	350	59.326	19.209	44.887	0.00	0.00
ATOM	5267	HD12	ILE	X	350	59.824	19.062	46.637	0.00	0.00
ATOM	5268	HD13	ILE	X	350	59.762	20.567	45.852	0.00	0.00
ATOM	5269	C	ILE	X	350	63.435	17.115	45.995	0.00	0.00
ATOM	5270	O	ILE	X	350	63.771	16.558	44.893	0.00	0.00
ATOM	5271	N	SER	X	351	62.812	16.435	46.983	0.00	0.00
ATOM	5272	H	SER	X	351	62.403	16.934	47.761	0.00	0.00
ATOM	5273	CA	SER	X	351	62.579	14.952	46.875	0.00	0.00
ATOM	5274	HA	SER	X	351	63.051	14.600	45.958	0.00	0.00
ATOM	5275	CB	SER	X	351	63.203	14.188	47.999	0.00	0.00
ATOM	5276	HB2	SER	X	351	63.241	13.106	47.876	0.00	0.00
ATOM	5277	HB3	SER	X	351	64.213	14.489	48.280	0.00	0.00
ATOM	5278	OG	SER	X	351	62.428	14.480	49.122	0.00	0.00
ATOM	5279	HG	SER	X	351	62.580	13.845	49.826	0.00	0.00
ATOM	5280	C	SER	X	351	61.087	14.734	46.602	0.00	0.00
ATOM	5281	O	SER	X	351	60.309	15.697	46.895	0.00	0.00
ATOM	5282	N	ARG	X	352	60.576	13.557	46.238	0.00	0.00
ATOM	5283	H	ARG	X	352	61.232	12.850	45.938	0.00	0.00
ATOM	5284	CA	ARG	X	352	59.132	13.356	46.062	0.00	0.00
ATOM	5285	HA	ARG	X	352	58.751	14.122	45.387	0.00	0.00
ATOM	5286	CB	ARG	X	352	58.861	11.918	45.668	0.00	0.00
ATOM	5287	HB2	ARG	X	352	59.499	11.221	46.212	0.00	0.00

ATOM	5288	HB3	ARG	X	352	57.802	11.734	45.845	0.00	0.00
ATOM	5289	CG	ARG	X	352	59.107	11.835	44.157	0.00	0.00
ATOM	5290	HG2	ARG	X	352	58.450	12.620	43.782	0.00	0.00
ATOM	5291	HG3	ARG	X	352	60.104	12.168	43.871	0.00	0.00
ATOM	5292	CD	ARG	X	352	58.707	10.448	43.624	0.00	0.00
ATOM	5293	HD2	ARG	X	352	59.212	10.201	42.690	0.00	0.00
ATOM	5294	HD3	ARG	X	352	59.035	9.681	44.325	0.00	0.00
ATOM	5295	NE	ARG	X	352	57.317	10.327	43.369	0.00	0.00
ATOM	5296	HE	ARG	X	352	56.811	9.630	43.897	0.00	0.00
ATOM	5297	CZ	ARG	X	352	56.613	11.031	42.535	0.00	0.00
ATOM	5298	NH1	ARG	X	352	57.163	11.859	41.640	0.00	0.00
ATOM	5299	HH11	ARG	X	352	58.130	11.709	41.391	0.00	0.00
ATOM	5300	HH12	ARG	X	352	56.494	12.271	41.006	0.00	0.00
ATOM	5301	NH2	ARG	X	352	55.341	10.849	42.638	0.00	0.00
ATOM	5302	HH21	ARG	X	352	54.994	10.124	43.249	0.00	0.00
ATOM	5303	HH22	ARG	X	352	54.708	11.256	41.964	0.00	0.00
ATOM	5304	C	ARG	X	352	58.434	13.710	47.398	0.00	0.00
ATOM	5305	O	ARG	X	352	57.384	14.284	47.345	0.00	0.00
ATOM	5306	N	ALA	X	353	58.985	13.353	48.586	0.00	0.00
ATOM	5307	H	ALA	X	353	59.768	12.716	48.607	0.00	0.00
ATOM	5308	CA	ALA	X	353	58.469	13.637	49.918	0.00	0.00
ATOM	5309	HA	ALA	X	353	57.602	13.027	50.173	0.00	0.00
ATOM	5310	CB	ALA	X	353	59.462	13.182	50.959	0.00	0.00
ATOM	5311	HB1	ALA	X	353	60.372	13.764	50.809	0.00	0.00
ATOM	5312	HB2	ALA	X	353	59.186	13.444	51.980	0.00	0.00
ATOM	5313	HB3	ALA	X	353	59.583	12.105	50.848	0.00	0.00
ATOM	5314	C	ALA	X	353	58.059	15.125	50.066	0.00	0.00
ATOM	5315	O	ALA	X	353	56.872	15.464	50.320	0.00	0.00
ATOM	5316	N	GLU	X	354	59.042	15.926	49.683	0.00	0.00
ATOM	5317	H	GLU	X	354	59.916	15.507	49.399	0.00	0.00
ATOM	5318	CA	GLU	X	354	58.929	17.425	49.755	0.00	0.00
ATOM	5319	HA	GLU	X	354	58.621	17.720	50.758	0.00	0.00
ATOM	5320	CB	GLU	X	354	60.309	18.089	49.507	0.00	0.00
ATOM	5321	HB2	GLU	X	354	60.741	17.672	48.598	0.00	0.00
ATOM	5322	HB3	GLU	X	354	60.134	19.165	49.516	0.00	0.00
ATOM	5323	CG	GLU	X	354	61.410	17.542	50.467	0.00	0.00
ATOM	5324	HG2	GLU	X	354	61.028	17.529	51.488	0.00	0.00
ATOM	5325	HG3	GLU	X	354	61.740	16.522	50.271	0.00	0.00
ATOM	5326	CD	GLU	X	354	62.599	18.526	50.445	0.00	0.00
ATOM	5327	OE1	GLU	X	354	62.550	19.522	51.218	0.00	0.00
ATOM	5328	OE2	GLU	X	354	63.540	18.272	49.750	0.00	0.00
ATOM	5329	C	GLU	X	354	57.984	17.985	48.699	0.00	0.00
ATOM	5330	O	GLU	X	354	57.443	19.076	48.929	0.00	0.00
ATOM	5331	N	PHE	X	355	57.746	17.325	47.541	0.00	0.00
ATOM	5332	H	PHE	X	355	58.299	16.519	47.289	0.00	0.00
ATOM	5333	CA	PHE	X	355	56.678	17.758	46.691	0.00	0.00
ATOM	5334	HA	PHE	X	355	56.854	18.753	46.282	0.00	0.00
ATOM	5335	CB	PHE	X	355	56.818	16.828	45.495	0.00	0.00
ATOM	5336	HB2	PHE	X	355	57.801	16.932	45.036	0.00	0.00
ATOM	5337	HB3	PHE	X	355	56.689	15.787	45.791	0.00	0.00
ATOM	5338	CG	PHE	X	355	55.816	17.111	44.368	0.00	0.00
ATOM	5339	CD1	PHE	X	355	55.319	18.406	44.114	0.00	0.00
ATOM	5340	HD1	PHE	X	355	55.602	19.275	44.690	0.00	0.00
ATOM	5341	CE1	PHE	X	355	54.333	18.477	43.128	0.00	0.00
ATOM	5342	HE1	PHE	X	355	53.845	19.414	42.903	0.00	0.00
ATOM	5343	CZ	PHE	X	355	54.017	17.352	42.339	0.00	0.00
ATOM	5344	HZ	PHE	X	355	53.350	17.453	41.495	0.00	0.00
ATOM	5345	CE2	PHE	X	355	54.637	16.125	42.566	0.00	0.00
ATOM	5346	HE2	PHE	X	355	54.560	15.236	41.956	0.00	0.00
ATOM	5347	CD2	PHE	X	355	55.593	15.999	43.553	0.00	0.00
ATOM	5348	HD2	PHE	X	355	56.040	15.047	43.800	0.00	0.00
ATOM	5349	C	PHE	X	355	55.248	17.673	47.370	0.00	0.00
ATOM	5350	O	PHE	X	355	54.515	18.635	47.468	0.00	0.00
ATOM	5351	N	LEU	X	356	55.017	16.513	47.989	0.00	0.00
ATOM	5352	H	LEU	X	356	55.733	15.810	47.872	0.00	0.00
ATOM	5353	CA	LEU	X	356	53.854	16.179	48.874	0.00	0.00
ATOM	5354	HA	LEU	X	356	52.970	16.197	48.237	0.00	0.00
ATOM	5355	CB	LEU	X	356	54.078	14.695	49.279	0.00	0.00
ATOM	5356	HB2	LEU	X	356	54.825	14.210	48.650	0.00	0.00
ATOM	5357	HB3	LEU	X	356	54.546	14.722	50.262	0.00	0.00

ATOM	5358	CG	LEU	X	356	52.791	13.848	49.358	0.00	0.00
ATOM	5359	HG	LEU	X	356	52.277	13.925	48.400	0.00	0.00
ATOM	5360	CD1	LEU	X	356	53.108	12.354	49.592	0.00	0.00
ATOM	5361	HD11	LEU	X	356	53.479	12.153	50.597	0.00	0.00
ATOM	5362	HD12	LEU	X	356	52.215	11.745	49.454	0.00	0.00
ATOM	5363	HD13	LEU	X	356	53.890	12.007	48.916	0.00	0.00
ATOM	5364	CD2	LEU	X	356	51.802	14.419	50.410	0.00	0.00
ATOM	5365	HD21	LEU	X	356	52.239	14.413	51.409	0.00	0.00
ATOM	5366	HD22	LEU	X	356	51.522	15.402	50.033	0.00	0.00
ATOM	5367	HD23	LEU	X	356	50.847	13.897	50.466	0.00	0.00
ATOM	5368	C	LEU	X	356	53.715	17.117	50.137	0.00	0.00
ATOM	5369	O	LEU	X	356	52.615	17.692	50.294	0.00	0.00
ATOM	5370	N	ALA	X	357	54.764	17.477	50.822	0.00	0.00
ATOM	5371	H	ALA	X	357	55.616	16.964	50.640	0.00	0.00
ATOM	5372	CA	ALA	X	357	54.754	18.643	51.724	0.00	0.00
ATOM	5373	HA	ALA	X	357	54.011	18.452	52.498	0.00	0.00
ATOM	5374	CB	ALA	X	357	56.129	18.540	52.483	0.00	0.00
ATOM	5375	HB1	ALA	X	357	56.325	17.509	52.777	0.00	0.00
ATOM	5376	HB2	ALA	X	357	56.985	18.756	51.844	0.00	0.00
ATOM	5377	HB3	ALA	X	357	56.124	19.233	53.324	0.00	0.00
ATOM	5378	C	ALA	X	357	54.619	20.093	51.231	0.00	0.00
ATOM	5379	O	ALA	X	357	53.939	20.875	51.869	0.00	0.00
ATOM	5380	N	GLY	X	358	55.139	20.343	50.033	0.00	0.00
ATOM	5381	H	GLY	X	358	55.678	19.613	49.589	0.00	0.00
ATOM	5382	CA	GLY	X	358	54.881	21.549	49.304	0.00	0.00
ATOM	5383	HA2	GLY	X	358	55.147	22.303	50.006	0.00	0.00
ATOM	5384	HA3	GLY	X	358	55.481	21.643	48.432	0.00	0.00
ATOM	5385	C	GLY	X	358	53.367	21.681	48.903	0.00	0.00
ATOM	5386	O	GLY	X	358	52.776	22.678	49.333	0.00	0.00
ATOM	5387	N	VAL	X	359	52.709	20.647	48.238	0.00	0.00
ATOM	5388	H	VAL	X	359	53.183	19.769	48.083	0.00	0.00
ATOM	5389	CA	VAL	X	359	51.267	20.751	47.866	0.00	0.00
ATOM	5390	HA	VAL	X	359	51.135	21.631	47.237	0.00	0.00
ATOM	5391	CB	VAL	X	359	50.751	19.515	47.055	0.00	0.00
ATOM	5392	HB	VAL	X	359	50.723	18.591	47.633	0.00	0.00
ATOM	5393	CG1	VAL	X	359	49.268	19.789	46.751	0.00	0.00
ATOM	5394	HG11	VAL	X	359	49.154	20.716	46.189	0.00	0.00
ATOM	5395	HG12	VAL	X	359	48.955	18.931	46.156	0.00	0.00
ATOM	5396	HG13	VAL	X	359	48.629	19.970	47.616	0.00	0.00
ATOM	5397	CG2	VAL	X	359	51.511	19.183	45.718	0.00	0.00
ATOM	5398	HG21	VAL	X	359	51.988	20.111	45.400	0.00	0.00
ATOM	5399	HG22	VAL	X	359	52.226	18.391	45.942	0.00	0.00
ATOM	5400	HG23	VAL	X	359	50.788	18.779	45.009	0.00	0.00
ATOM	5401	C	VAL	X	359	50.430	20.969	49.118	0.00	0.00
ATOM	5402	O	VAL	X	359	49.655	21.951	49.131	0.00	0.00
ATOM	5403	N	ARG	X	360	50.760	20.377	50.257	0.00	0.00
ATOM	5404	H	ARG	X	360	51.459	19.648	50.256	0.00	0.00
ATOM	5405	CA	ARG	X	360	50.065	20.707	51.464	0.00	0.00
ATOM	5406	HA	ARG	X	360	49.002	20.746	51.228	0.00	0.00
ATOM	5407	CB	ARG	X	360	50.437	19.746	52.619	0.00	0.00
ATOM	5408	HB2	ARG	X	360	51.526	19.786	52.644	0.00	0.00
ATOM	5409	HB3	ARG	X	360	50.032	20.188	53.529	0.00	0.00
ATOM	5410	CG	ARG	X	360	50.019	18.277	52.470	0.00	0.00
ATOM	5411	HG2	ARG	X	360	48.931	18.207	52.442	0.00	0.00
ATOM	5412	HG3	ARG	X	360	50.493	17.995	51.530	0.00	0.00
ATOM	5413	CD	ARG	X	360	50.539	17.482	53.665	0.00	0.00
ATOM	5414	HD2	ARG	X	360	51.518	17.947	53.782	0.00	0.00
ATOM	5415	HD3	ARG	X	360	49.868	17.674	54.502	0.00	0.00
ATOM	5416	NE	ARG	X	360	50.722	16.045	53.458	0.00	0.00
ATOM	5417	HE	ARG	X	360	51.686	15.780	53.315	0.00	0.00
ATOM	5418	CZ	ARG	X	360	49.985	15.018	53.823	0.00	0.00
ATOM	5419	NH1	ARG	X	360	48.787	14.994	54.262	0.00	0.00
ATOM	5420	HH11	ARG	X	360	48.283	15.857	54.402	0.00	0.00
ATOM	5421	HH12	ARG	X	360	48.541	14.183	54.811	0.00	0.00
ATOM	5422	NH2	ARG	X	360	50.519	13.819	53.909	0.00	0.00
ATOM	5423	HH21	ARG	X	360	51.485	13.662	53.657	0.00	0.00
ATOM	5424	HH22	ARG	X	360	50.010	12.971	54.113	0.00	0.00
ATOM	5425	C	ARG	X	360	50.202	22.120	52.010	0.00	0.00
ATOM	5426	O	ARG	X	360	49.185	22.724	52.497	0.00	0.00
ATOM	5427	N	VAL	X	361	51.373	22.740	51.980	0.00	0.00

ATOM	5428	H	VAL	X	361	52.240	22.286	51.731	0.00	0.00
ATOM	5429	CA	VAL	X	361	51.538	24.109	52.502	0.00	0.00
ATOM	5430	HA	VAL	X	361	50.750	24.337	53.220	0.00	0.00
ATOM	5431	CB	VAL	X	361	52.962	24.414	53.026	0.00	0.00
ATOM	5432	HB	VAL	X	361	52.980	25.451	53.363	0.00	0.00
ATOM	5433	CG1	VAL	X	361	53.158	23.380	54.203	0.00	0.00
ATOM	5434	HG11	VAL	X	361	52.270	23.397	54.834	0.00	0.00
ATOM	5435	HG12	VAL	X	361	53.176	22.375	53.782	0.00	0.00
ATOM	5436	HG13	VAL	X	361	54.038	23.549	54.823	0.00	0.00
ATOM	5437	CG2	VAL	X	361	54.111	24.179	52.011	0.00	0.00
ATOM	5438	HG21	VAL	X	361	54.025	24.846	51.154	0.00	0.00
ATOM	5439	HG22	VAL	X	361	54.976	24.410	52.633	0.00	0.00
ATOM	5440	HG23	VAL	X	361	54.309	23.169	51.650	0.00	0.00
ATOM	5441	C	VAL	X	361	51.265	25.146	51.344	0.00	0.00
ATOM	5442	O	VAL	X	361	50.646	26.127	51.650	0.00	0.00
ATOM	5443	N	GLY	X	362	51.636	24.951	50.108	0.00	0.00
ATOM	5444	H	GLY	X	362	51.996	24.029	49.910	0.00	0.00
ATOM	5445	CA	GLY	X	362	51.339	25.914	48.974	0.00	0.00
ATOM	5446	HA2	GLY	X	362	51.579	26.961	49.243	0.00	0.00
ATOM	5447	HA3	GLY	X	362	52.053	25.654	48.154	0.00	0.00
ATOM	5448	C	GLY	X	362	49.892	25.890	48.382	0.00	0.00
ATOM	5449	O	GLY	X	362	49.534	26.843	47.686	0.00	0.00
ATOM	5450	N	VAL	X	363	49.171	24.861	48.646	0.00	0.00
ATOM	5451	H	VAL	X	363	49.471	23.995	49.070	0.00	0.00
ATOM	5452	CA	VAL	X	363	47.679	24.930	48.447	0.00	0.00
ATOM	5453	HA	VAL	X	363	47.295	25.928	48.236	0.00	0.00
ATOM	5454	CB	VAL	X	363	47.150	24.028	47.232	0.00	0.00
ATOM	5455	HB	VAL	X	363	47.337	22.966	47.389	0.00	0.00
ATOM	5456	CG1	VAL	X	363	45.645	24.091	47.055	0.00	0.00
ATOM	5457	HG11	VAL	X	363	45.207	23.401	47.777	0.00	0.00
ATOM	5458	HG12	VAL	X	363	45.260	25.101	47.192	0.00	0.00
ATOM	5459	HG13	VAL	X	363	45.210	23.761	46.112	0.00	0.00
ATOM	5460	CG2	VAL	X	363	47.712	24.531	45.925	0.00	0.00
ATOM	5461	HG21	VAL	X	363	47.305	25.475	45.564	0.00	0.00
ATOM	5462	HG22	VAL	X	363	48.798	24.586	45.987	0.00	0.00
ATOM	5463	HG23	VAL	X	363	47.594	23.740	45.184	0.00	0.00
ATOM	5464	C	VAL	X	363	47.103	24.483	49.753	0.00	0.00
ATOM	5465	O	VAL	X	363	46.613	23.376	49.791	0.00	0.00
ATOM	5466	N	PRO	X	364	47.023	25.298	50.861	0.00	0.00
ATOM	5467	CD	PRO	X	364	47.520	26.677	50.833	0.00	0.00
ATOM	5468	HD2	PRO	X	364	46.926	27.236	50.110	0.00	0.00
ATOM	5469	HD3	PRO	X	364	48.563	26.651	50.516	0.00	0.00
ATOM	5470	CG	PRO	X	364	47.297	27.261	52.215	0.00	0.00
ATOM	5471	HG2	PRO	X	364	46.315	27.720	52.331	0.00	0.00
ATOM	5472	HG3	PRO	X	364	48.135	27.887	52.521	0.00	0.00
ATOM	5473	CB	PRO	X	364	47.257	25.997	53.034	0.00	0.00
ATOM	5474	HB2	PRO	X	364	46.739	26.144	53.982	0.00	0.00
ATOM	5475	HB3	PRO	X	364	48.293	25.680	53.146	0.00	0.00
ATOM	5476	CA	PRO	X	364	46.658	24.886	52.176	0.00	0.00
ATOM	5477	HA	PRO	X	364	47.164	23.968	52.474	0.00	0.00
ATOM	5478	C	PRO	X	364	45.161	24.761	52.287	0.00	0.00
ATOM	5479	O	PRO	X	364	44.424	25.700	52.581	0.00	0.00
ATOM	5480	N	GLN	X	365	44.659	23.554	51.974	0.00	0.00
ATOM	5481	H	GLN	X	365	45.324	22.795	51.940	0.00	0.00
ATOM	5482	CA	GLN	X	365	43.263	23.102	51.936	0.00	0.00
ATOM	5483	HA	GLN	X	365	42.950	23.066	52.979	0.00	0.00
ATOM	5484	CB	GLN	X	365	42.341	24.103	51.170	0.00	0.00
ATOM	5485	HB2	GLN	X	365	41.385	23.647	50.913	0.00	0.00
ATOM	5486	HB3	GLN	X	365	42.148	24.935	51.848	0.00	0.00
ATOM	5487	CG	GLN	X	365	42.915	24.492	49.728	0.00	0.00
ATOM	5488	HG2	GLN	X	365	43.804	25.107	49.870	0.00	0.00
ATOM	5489	HG3	GLN	X	365	43.110	23.603	49.128	0.00	0.00
ATOM	5490	CD	GLN	X	365	41.890	25.212	48.856	0.00	0.00
ATOM	5491	OE1	GLN	X	365	42.169	26.337	48.400	0.00	0.00
ATOM	5492	NE2	GLN	X	365	40.786	24.555	48.479	0.00	0.00
ATOM	5493	HE21	GLN	X	365	40.355	24.878	47.625	0.00	0.00
ATOM	5494	HE22	GLN	X	365	40.688	23.591	48.765	0.00	0.00
ATOM	5495	C	GLN	X	365	43.169	21.725	51.382	0.00	0.00
ATOM	5496	O	GLN	X	365	42.072	21.248	51.137	0.00	0.00
ATOM	5497	N	VAL	X	366	44.275	20.905	51.092	0.00	0.00

ATOM	5498	H	VAL	X	366	45.115	21.186	51.577	0.00	0.00
ATOM	5499	CA	VAL	X	366	44.239	19.538	50.492	0.00	0.00
ATOM	5500	HA	VAL	X	366	43.375	19.371	49.848	0.00	0.00
ATOM	5501	CB	VAL	X	366	45.401	19.342	49.454	0.00	0.00
ATOM	5502	HB	VAL	X	366	46.396	19.416	49.893	0.00	0.00
ATOM	5503	CG1	VAL	X	366	45.279	18.001	48.681	0.00	0.00
ATOM	5504	HG11	VAL	X	366	45.345	17.138	49.344	0.00	0.00
ATOM	5505	HG12	VAL	X	366	44.350	18.019	48.111	0.00	0.00
ATOM	5506	HG13	VAL	X	366	46.101	18.035	47.966	0.00	0.00
ATOM	5507	CG2	VAL	X	366	45.374	20.432	48.347	0.00	0.00
ATOM	5508	HG21	VAL	X	366	46.206	20.284	47.660	0.00	0.00
ATOM	5509	HG22	VAL	X	366	44.425	20.459	47.811	0.00	0.00
ATOM	5510	HG23	VAL	X	366	45.533	21.408	48.805	0.00	0.00
ATOM	5511	C	VAL	X	366	44.443	18.357	51.486	0.00	0.00
ATOM	5512	O	VAL	X	366	45.379	18.332	52.315	0.00	0.00
ATOM	5513	N	SER	X	367	43.579	17.335	51.443	0.00	0.00
ATOM	5514	H	SER	X	367	42.927	17.330	50.672	0.00	0.00
ATOM	5515	CA	SER	X	367	43.668	16.080	52.351	0.00	0.00
ATOM	5516	HA	SER	X	367	43.785	16.497	53.351	0.00	0.00
ATOM	5517	CB	SER	X	367	42.391	15.164	52.389	0.00	0.00
ATOM	5518	HB2	SER	X	367	42.542	14.563	53.285	0.00	0.00
ATOM	5519	HB3	SER	X	367	41.581	15.865	52.590	0.00	0.00
ATOM	5520	OG	SER	X	367	42.141	14.396	51.223	0.00	0.00
ATOM	5521	HG	SER	X	367	41.529	13.672	51.378	0.00	0.00
ATOM	5522	C	SER	X	367	44.850	15.211	51.949	0.00	0.00
ATOM	5523	O	SER	X	367	45.457	15.415	50.854	0.00	0.00
ATOM	5524	N	ASP	X	368	45.166	14.188	52.745	0.00	0.00
ATOM	5525	H	ASP	X	368	44.696	14.178	53.639	0.00	0.00
ATOM	5526	CA	ASP	X	368	46.218	13.209	52.485	0.00	0.00
ATOM	5527	HA	ASP	X	368	47.155	13.752	52.368	0.00	0.00
ATOM	5528	CB	ASP	X	368	46.404	12.207	53.656	0.00	0.00
ATOM	5529	HB2	ASP	X	368	46.385	12.816	54.559	0.00	0.00
ATOM	5530	HB3	ASP	X	368	45.562	11.518	53.586	0.00	0.00
ATOM	5531	CG	ASP	X	368	47.749	11.488	53.612	0.00	0.00
ATOM	5532	OD1	ASP	X	368	48.634	12.001	54.298	0.00	0.00
ATOM	5533	OD2	ASP	X	368	47.991	10.568	52.771	0.00	0.00
ATOM	5534	C	ASP	X	368	45.979	12.489	51.174	0.00	0.00
ATOM	5535	O	ASP	X	368	46.855	12.406	50.360	0.00	0.00
ATOM	5536	N	LEU	X	369	44.847	11.819	51.059	0.00	0.00
ATOM	5537	H	LEU	X	369	44.151	11.970	51.775	0.00	0.00
ATOM	5538	CA	LEU	X	369	44.487	11.074	49.805	0.00	0.00
ATOM	5539	HA	LEU	X	369	45.334	10.455	49.511	0.00	0.00
ATOM	5540	CB	LEU	X	369	43.263	10.185	50.107	0.00	0.00
ATOM	5541	HB2	LEU	X	369	43.585	9.362	50.745	0.00	0.00
ATOM	5542	HB3	LEU	X	369	42.504	10.834	50.544	0.00	0.00
ATOM	5543	CG	LEU	X	369	42.579	9.516	48.902	0.00	0.00
ATOM	5544	HG	LEU	X	369	42.359	10.210	48.091	0.00	0.00
ATOM	5545	CD1	LEU	X	369	43.323	8.335	48.374	0.00	0.00
ATOM	5546	HD11	LEU	X	369	44.229	8.603	47.830	0.00	0.00
ATOM	5547	HD12	LEU	X	369	43.602	7.629	49.156	0.00	0.00
ATOM	5548	HD13	LEU	X	369	42.618	7.872	47.683	0.00	0.00
ATOM	5549	CD2	LEU	X	369	41.207	9.033	49.363	0.00	0.00
ATOM	5550	HD21	LEU	X	369	41.377	8.266	50.119	0.00	0.00
ATOM	5551	HD22	LEU	X	369	40.623	9.852	49.782	0.00	0.00
ATOM	5552	HD23	LEU	X	369	40.670	8.568	48.536	0.00	0.00
ATOM	5553	C	LEU	X	369	44.319	11.992	48.585	0.00	0.00
ATOM	5554	O	LEU	X	369	44.582	11.546	47.464	0.00	0.00
ATOM	5555	N	ALA	X	370	44.014	13.268	48.801	0.00	0.00
ATOM	5556	H	ALA	X	370	43.769	13.517	49.749	0.00	0.00
ATOM	5557	CA	ALA	X	370	44.009	14.290	47.761	0.00	0.00
ATOM	5558	HA	ALA	X	370	43.498	13.844	46.908	0.00	0.00
ATOM	5559	CB	ALA	X	370	43.037	15.441	48.254	0.00	0.00
ATOM	5560	HB1	ALA	X	370	43.420	15.909	49.161	0.00	0.00
ATOM	5561	HB2	ALA	X	370	42.963	16.223	47.498	0.00	0.00
ATOM	5562	HB3	ALA	X	370	42.052	14.976	48.250	0.00	0.00
ATOM	5563	C	ALA	X	370	45.354	14.824	47.308	0.00	0.00
ATOM	5564	O	ALA	X	370	45.643	14.991	46.150	0.00	0.00
ATOM	5565	N	ALA	X	371	46.289	14.952	48.250	0.00	0.00
ATOM	5566	H	ALA	X	371	46.109	14.742	49.222	0.00	0.00
ATOM	5567	CA	ALA	X	371	47.671	15.384	48.151	0.00	0.00

ATOM	5568	HA	ALA	X	371	47.731	16.277	47.530	0.00	0.00
ATOM	5569	CB	ALA	X	371	48.236	15.540	49.553	0.00	0.00
ATOM	5570	HB1	ALA	X	371	47.891	14.773	50.246	0.00	0.00
ATOM	5571	HB2	ALA	X	371	49.297	15.688	49.754	0.00	0.00
ATOM	5572	HB3	ALA	X	371	47.859	16.516	49.859	0.00	0.00
ATOM	5573	C	ALA	X	371	48.416	14.254	47.389	0.00	0.00
ATOM	5574	O	ALA	X	371	49.010	14.488	46.350	0.00	0.00
ATOM	5575	N	GLU	X	372	48.234	12.977	47.796	0.00	0.00
ATOM	5576	H	GLU	X	372	47.852	12.798	48.714	0.00	0.00
ATOM	5577	CA	GLU	X	372	48.684	11.826	47.065	0.00	0.00
ATOM	5578	HA	GLU	X	372	49.771	11.882	47.136	0.00	0.00
ATOM	5579	CB	GLU	X	372	48.251	10.500	47.675	0.00	0.00
ATOM	5580	HB2	GLU	X	372	47.177	10.393	47.833	0.00	0.00
ATOM	5581	HB3	GLU	X	372	48.435	9.725	46.932	0.00	0.00
ATOM	5582	CG	GLU	X	372	49.081	10.175	48.943	0.00	0.00
ATOM	5583	HG2	GLU	X	372	50.102	10.472	48.706	0.00	0.00
ATOM	5584	HG3	GLU	X	372	48.775	10.819	49.768	0.00	0.00
ATOM	5585	CD	GLU	X	372	49.023	8.638	49.127	0.00	0.00
ATOM	5586	OE1	GLU	X	372	47.986	7.977	49.327	0.00	0.00
ATOM	5587	OE2	GLU	X	372	50.134	8.072	49.018	0.00	0.00
ATOM	5588	C	GLU	X	372	48.339	11.831	45.623	0.00	0.00
ATOM	5589	O	GLU	X	372	49.169	11.603	44.698	0.00	0.00
ATOM	5590	N	ALA	X	373	47.113	12.159	45.327	0.00	0.00
ATOM	5591	H	ALA	X	373	46.507	12.460	46.077	0.00	0.00
ATOM	5592	CA	ALA	X	373	46.588	12.282	43.950	0.00	0.00
ATOM	5593	HA	ALA	X	373	46.663	11.336	43.413	0.00	0.00
ATOM	5594	CB	ALA	X	373	45.075	12.417	44.058	0.00	0.00
ATOM	5595	HB1	ALA	X	373	44.507	11.719	44.673	0.00	0.00
ATOM	5596	HB2	ALA	X	373	44.832	13.357	44.553	0.00	0.00
ATOM	5597	HB3	ALA	X	373	44.679	12.425	43.042	0.00	0.00
ATOM	5598	C	ALA	X	373	47.103	13.508	43.141	0.00	0.00
ATOM	5599	O	ALA	X	373	47.383	13.295	41.986	0.00	0.00
ATOM	5600	N	VAL	X	374	47.246	14.718	43.680	0.00	0.00
ATOM	5601	H	VAL	X	374	46.884	14.747	44.622	0.00	0.00
ATOM	5602	CA	VAL	X	374	47.977	15.835	43.067	0.00	0.00
ATOM	5603	HA	VAL	X	374	47.354	15.987	42.185	0.00	0.00
ATOM	5604	CB	VAL	X	374	47.880	17.137	43.891	0.00	0.00
ATOM	5605	HB	VAL	X	374	48.252	17.003	44.907	0.00	0.00
ATOM	5606	CG1	VAL	X	374	48.531	18.330	43.182	0.00	0.00
ATOM	5607	HG11	VAL	X	374	49.593	18.208	42.973	0.00	0.00
ATOM	5608	HG12	VAL	X	374	48.022	18.462	42.227	0.00	0.00
ATOM	5609	HG13	VAL	X	374	48.412	19.265	43.730	0.00	0.00
ATOM	5610	CG2	VAL	X	374	46.459	17.596	44.001	0.00	0.00
ATOM	5611	HG21	VAL	X	374	45.822	16.903	44.551	0.00	0.00
ATOM	5612	HG22	VAL	X	374	46.475	18.557	44.516	0.00	0.00
ATOM	5613	HG23	VAL	X	374	46.056	17.600	42.989	0.00	0.00
ATOM	5614	C	VAL	X	374	49.425	15.458	42.686	0.00	0.00
ATOM	5615	O	VAL	X	374	49.754	15.399	41.521	0.00	0.00
ATOM	5616	N	VAL	X	375	50.088	14.705	43.606	0.00	0.00
ATOM	5617	H	VAL	X	375	49.760	14.535	44.546	0.00	0.00
ATOM	5618	CA	VAL	X	375	51.449	14.132	43.415	0.00	0.00
ATOM	5619	HA	VAL	X	375	51.993	15.025	43.106	0.00	0.00
ATOM	5620	CB	VAL	X	375	52.172	13.596	44.669	0.00	0.00
ATOM	5621	HB	VAL	X	375	51.471	12.951	45.199	0.00	0.00
ATOM	5622	CG1	VAL	X	375	53.455	12.772	44.459	0.00	0.00
ATOM	5623	HG11	VAL	X	375	53.168	11.895	43.879	0.00	0.00
ATOM	5624	HG12	VAL	X	375	54.163	13.447	43.978	0.00	0.00
ATOM	5625	HG13	VAL	X	375	53.660	12.343	45.439	0.00	0.00
ATOM	5626	CG2	VAL	X	375	52.435	14.866	45.534	0.00	0.00
ATOM	5627	HG21	VAL	X	375	51.512	15.270	45.950	0.00	0.00
ATOM	5628	HG22	VAL	X	375	53.052	14.510	46.358	0.00	0.00
ATOM	5629	HG23	VAL	X	375	53.079	15.591	45.036	0.00	0.00
ATOM	5630	C	VAL	X	375	51.434	13.085	42.255	0.00	0.00
ATOM	5631	O	VAL	X	375	52.411	13.026	41.531	0.00	0.00
ATOM	5632	N	LEU	X	376	50.397	12.203	42.158	0.00	0.00
ATOM	5633	H	LEU	X	376	49.682	12.240	42.870	0.00	0.00
ATOM	5634	CA	LEU	X	376	50.276	11.194	41.153	0.00	0.00
ATOM	5635	HA	LEU	X	376	51.272	10.754	41.123	0.00	0.00
ATOM	5636	CB	LEU	X	376	49.187	10.259	41.563	0.00	0.00
ATOM	5637	HB2	LEU	X	376	49.403	9.854	42.552	0.00	0.00

ATOM	5638	HB3	LEU	X	376	48.242	10.803	41.562	0.00	0.00
ATOM	5639	CG	LEU	X	376	48.941	8.982	40.663	0.00	0.00
ATOM	5640	HG	LEU	X	376	48.663	9.412	39.701	0.00	0.00
ATOM	5641	CD1	LEU	X	376	50.265	8.260	40.427	0.00	0.00
ATOM	5642	HD11	LEU	X	376	50.120	7.361	39.828	0.00	0.00
ATOM	5643	HD12	LEU	X	376	50.895	8.809	39.728	0.00	0.00
ATOM	5644	HD13	LEU	X	376	50.672	7.961	41.393	0.00	0.00
ATOM	5645	CD2	LEU	X	376	47.859	8.013	41.069	0.00	0.00
ATOM	5646	HD21	LEU	X	376	46.952	8.552	41.340	0.00	0.00
ATOM	5647	HD22	LEU	X	376	47.709	7.311	40.249	0.00	0.00
ATOM	5648	HD23	LEU	X	376	48.040	7.514	42.022	0.00	0.00
ATOM	5649	C	LEU	X	376	50.050	11.767	39.651	0.00	0.00
ATOM	5650	O	LEU	X	376	50.470	11.110	38.711	0.00	0.00
ATOM	5651	N	HIE	X	377	49.364	12.879	39.592	0.00	0.00
ATOM	5652	H	HIE	X	377	49.076	13.416	40.398	0.00	0.00
ATOM	5653	CA	HIE	X	377	48.902	13.403	38.368	0.00	0.00
ATOM	5654	HA	HIE	X	377	48.896	12.566	37.670	0.00	0.00
ATOM	5655	CB	HIE	X	377	47.553	14.033	38.621	0.00	0.00
ATOM	5656	HB2	HIE	X	377	46.785	13.260	38.638	0.00	0.00
ATOM	5657	HB3	HIE	X	377	47.450	14.642	39.520	0.00	0.00
ATOM	5658	CG	HIE	X	377	47.106	14.889	37.460	0.00	0.00
ATOM	5659	ND1	HIE	X	377	47.678	16.056	37.058	0.00	0.00
ATOM	5660	CE1	HIE	X	377	46.827	16.588	36.182	0.00	0.00
ATOM	5661	HE1	HIE	X	377	46.917	17.616	35.863	0.00	0.00
ATOM	5662	NE2	HIE	X	377	45.773	15.794	36.024	0.00	0.00
ATOM	5663	HE2	HIE	X	377	45.031	15.916	35.350	0.00	0.00
ATOM	5664	CD2	HIE	X	377	45.889	14.715	36.891	0.00	0.00
ATOM	5665	HD2	HIE	X	377	45.099	14.026	37.152	0.00	0.00
ATOM	5666	C	HIE	X	377	50.000	14.427	37.898	0.00	0.00
ATOM	5667	O	HIE	X	377	50.376	14.310	36.738	0.00	0.00
ATOM	5668	N	TYR	X	378	50.600	15.323	38.731	0.00	0.00
ATOM	5669	H	TYR	X	378	50.431	15.268	39.726	0.00	0.00
ATOM	5670	CA	TYR	X	378	51.590	16.283	38.300	0.00	0.00
ATOM	5671	HA	TYR	X	378	51.354	16.725	37.332	0.00	0.00
ATOM	5672	CB	TYR	X	378	51.501	17.496	39.268	0.00	0.00
ATOM	5673	HB2	TYR	X	378	51.499	17.122	40.292	0.00	0.00
ATOM	5674	HB3	TYR	X	378	52.419	18.064	39.120	0.00	0.00
ATOM	5675	CG	TYR	X	378	50.295	18.406	39.134	0.00	0.00
ATOM	5676	CD1	TYR	X	378	50.495	19.576	38.418	0.00	0.00
ATOM	5677	HD1	TYR	X	378	51.503	19.831	38.124	0.00	0.00
ATOM	5678	CE1	TYR	X	378	49.507	20.489	38.090	0.00	0.00
ATOM	5679	HE1	TYR	X	378	49.636	21.452	37.619	0.00	0.00
ATOM	5680	CZ	TYR	X	378	48.202	20.228	38.551	0.00	0.00
ATOM	5681	OH	TYR	X	378	47.214	21.139	38.350	0.00	0.00
ATOM	5682	HH	TYR	X	378	47.370	21.992	37.938	0.00	0.00
ATOM	5683	CE2	TYR	X	378	47.931	19.130	39.355	0.00	0.00
ATOM	5684	HE2	TYR	X	378	46.932	18.994	39.743	0.00	0.00
ATOM	5685	CD2	TYR	X	378	48.989	18.196	39.577	0.00	0.00
ATOM	5686	HD2	TYR	X	378	48.791	17.390	40.268	0.00	0.00
ATOM	5687	C	TYR	X	378	52.974	15.673	38.254	0.00	0.00
ATOM	5688	O	TYR	X	378	53.916	16.362	37.882	0.00	0.00
ATOM	5689	N	THR	X	379	53.244	14.416	38.549	0.00	0.00
ATOM	5690	H	THR	X	379	52.471	13.829	38.829	0.00	0.00
ATOM	5691	CA	THR	X	379	54.483	13.616	38.260	0.00	0.00
ATOM	5692	HA	THR	X	379	55.312	14.259	38.556	0.00	0.00
ATOM	5693	CB	THR	X	379	54.513	12.235	38.958	0.00	0.00
ATOM	5694	HB	THR	X	379	53.537	11.757	38.869	0.00	0.00
ATOM	5695	CG2	THR	X	379	55.685	11.343	38.451	0.00	0.00
ATOM	5696	HG21	THR	X	379	55.714	10.405	39.006	0.00	0.00
ATOM	5697	HG22	THR	X	379	55.407	11.018	37.449	0.00	0.00
ATOM	5698	HG23	THR	X	379	56.643	11.854	38.549	0.00	0.00
ATOM	5699	OG1	THR	X	379	54.823	12.523	40.297	0.00	0.00
ATOM	5700	HG1	THR	X	379	54.021	12.917	40.649	0.00	0.00
ATOM	5701	C	THR	X	379	54.611	13.472	36.744	0.00	0.00
ATOM	5702	O	THR	X	379	53.701	13.147	35.987	0.00	0.00
ATOM	5703	N	ASP	X	380	55.800	13.721	36.280	0.00	0.00
ATOM	5704	H	ASP	X	380	56.539	13.828	36.961	0.00	0.00
ATOM	5705	CA	ASP	X	380	56.296	13.123	34.996	0.00	0.00
ATOM	5706	HA	ASP	X	380	55.454	12.945	34.328	0.00	0.00
ATOM	5707	CB	ASP	X	380	57.252	14.174	34.351	0.00	0.00

ATOM	5708	HB2	ASP	X	380	56.585	15.016	34.166	0.00	0.00
ATOM	5709	HB3	ASP	X	380	58.094	14.404	35.003	0.00	0.00
ATOM	5710	CG	ASP	X	380	57.888	13.734	33.091	0.00	0.00
ATOM	5711	OD1	ASP	X	380	58.822	14.456	32.720	0.00	0.00
ATOM	5712	OD2	ASP	X	380	57.415	12.873	32.395	0.00	0.00
ATOM	5713	C	ASP	X	380	56.943	11.702	35.284	0.00	0.00
ATOM	5714	O	ASP	X	380	57.961	11.567	35.916	0.00	0.00
ATOM	5715	N	TRP	X	381	56.302	10.639	34.684	0.00	0.00
ATOM	5716	H	TRP	X	381	55.419	10.867	34.250	0.00	0.00
ATOM	5717	CA	TRP	X	381	56.634	9.211	34.798	0.00	0.00
ATOM	5718	HA	TRP	X	381	57.103	9.175	35.782	0.00	0.00
ATOM	5719	CB	TRP	X	381	55.325	8.354	34.784	0.00	0.00
ATOM	5720	HB2	TRP	X	381	54.759	8.666	33.906	0.00	0.00
ATOM	5721	HB3	TRP	X	381	55.628	7.312	34.678	0.00	0.00
ATOM	5722	CG	TRP	X	381	54.481	8.461	36.021	0.00	0.00
ATOM	5723	CD1	TRP	X	381	53.257	8.985	36.071	0.00	0.00
ATOM	5724	HD1	TRP	X	381	52.643	9.294	35.238	0.00	0.00
ATOM	5725	NE1	TRP	X	381	52.833	9.055	37.355	0.00	0.00
ATOM	5726	HE1	TRP	X	381	51.892	9.270	37.652	0.00	0.00
ATOM	5727	CE2	TRP	X	381	53.743	8.477	38.260	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	53.817	8.248	39.682	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	53.002	8.454	40.361	0.00	0.00
ATOM	5730	CH2	TRP	X	381	54.935	7.625	40.249	0.00	0.00
ATOM	5731	HH2	TRP	X	381	54.951	7.473	41.319	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	56.011	7.257	39.387	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	56.960	6.957	39.806	0.00	0.00
ATOM	5734	CE3	TRP	X	381	55.878	7.423	37.997	0.00	0.00
ATOM	5735	HE3	TRP	X	381	56.715	7.066	37.416	0.00	0.00
ATOM	5736	CD2	TRP	X	381	54.824	8.099	37.391	0.00	0.00
ATOM	5737	C	TRP	X	381	57.697	8.729	33.742	0.00	0.00
ATOM	5738	O	TRP	X	381	58.184	7.625	33.823	0.00	0.00
ATOM	5739	N	LEU	X	382	58.177	9.690	32.946	0.00	0.00
ATOM	5740	H	LEU	X	382	57.742	10.593	33.070	0.00	0.00
ATOM	5741	CA	LEU	X	382	59.387	9.534	32.122	0.00	0.00
ATOM	5742	HA	LEU	X	382	59.336	8.515	31.737	0.00	0.00
ATOM	5743	CB	LEU	X	382	59.305	10.555	30.929	0.00	0.00
ATOM	5744	HB2	LEU	X	382	58.266	10.540	30.601	0.00	0.00
ATOM	5745	HB3	LEU	X	382	59.608	11.541	31.283	0.00	0.00
ATOM	5746	CG	LEU	X	382	60.158	10.377	29.646	0.00	0.00
ATOM	5747	HG	LEU	X	382	59.715	11.161	29.033	0.00	0.00
ATOM	5748	CD1	LEU	X	382	61.611	10.729	29.842	0.00	0.00
ATOM	5749	HD11	LEU	X	382	61.822	11.601	30.460	0.00	0.00
ATOM	5750	HD12	LEU	X	382	62.176	9.865	30.192	0.00	0.00
ATOM	5751	HD13	LEU	X	382	62.075	10.968	28.885	0.00	0.00
ATOM	5752	CD2	LEU	X	382	60.132	8.949	29.026	0.00	0.00
ATOM	5753	HD21	LEU	X	382	60.511	8.238	29.760	0.00	0.00
ATOM	5754	HD22	LEU	X	382	59.182	8.612	28.609	0.00	0.00
ATOM	5755	HD23	LEU	X	382	60.847	8.990	28.205	0.00	0.00
ATOM	5756	C	LEU	X	382	60.675	9.682	32.953	0.00	0.00
ATOM	5757	O	LEU	X	382	61.544	8.803	32.963	0.00	0.00
ATOM	5758	N	HIE	X	383	60.692	10.637	33.804	0.00	0.00
ATOM	5759	H	HIE	X	383	59.951	11.301	33.626	0.00	0.00
ATOM	5760	CA	HIE	X	383	61.729	11.017	34.845	0.00	0.00
ATOM	5761	HA	HIE	X	383	62.441	10.200	34.959	0.00	0.00
ATOM	5762	CB	HIE	X	383	62.437	12.336	34.478	0.00	0.00
ATOM	5763	HB2	HIE	X	383	61.639	13.077	34.433	0.00	0.00
ATOM	5764	HB3	HIE	X	383	63.126	12.506	35.305	0.00	0.00
ATOM	5765	CG	HIE	X	383	63.172	12.291	33.247	0.00	0.00
ATOM	5766	ND1	HIE	X	383	63.317	13.375	32.364	0.00	0.00
ATOM	5767	CE1	HIE	X	383	64.288	13.016	31.483	0.00	0.00
ATOM	5768	HE1	HIE	X	383	64.621	13.656	30.680	0.00	0.00
ATOM	5769	NE2	HIE	X	383	64.695	11.768	31.848	0.00	0.00
ATOM	5770	HE2	HIE	X	383	65.442	11.292	31.363	0.00	0.00
ATOM	5771	CD2	HIE	X	383	64.045	11.286	32.950	0.00	0.00
ATOM	5772	HD2	HIE	X	383	64.182	10.315	33.405	0.00	0.00
ATOM	5773	C	HIE	X	383	61.094	11.114	36.291	0.00	0.00
ATOM	5774	O	HIE	X	383	61.114	12.223	36.831	0.00	0.00
ATOM	5775	N	PRO	X	384	60.579	10.048	36.877	0.00	0.00
ATOM	5776	CD	PRO	X	384	60.670	8.682	36.406	0.00	0.00
ATOM	5777	HD2	PRO	X	384	61.661	8.349	36.101	0.00	0.00

ATOM	5778	HD3	PRO	X	384	59.956	8.404	35.630	0.00	0.00
ATOM	5779	CG	PRO	X	384	60.480	7.803	37.602	0.00	0.00
ATOM	5780	HG2	PRO	X	384	61.316	7.792	38.301	0.00	0.00
ATOM	5781	HG3	PRO	X	384	60.188	6.794	37.311	0.00	0.00
ATOM	5782	CB	PRO	X	384	59.518	8.646	38.411	0.00	0.00
ATOM	5783	HB2	PRO	X	384	59.685	8.334	39.442	0.00	0.00
ATOM	5784	HB3	PRO	X	384	58.525	8.534	37.976	0.00	0.00
ATOM	5785	CA	PRO	X	384	59.856	10.114	38.140	0.00	0.00
ATOM	5786	HA	PRO	X	384	59.053	10.816	37.913	0.00	0.00
ATOM	5787	C	PRO	X	384	60.625	10.723	39.350	0.00	0.00
ATOM	5788	O	PRO	X	384	59.993	11.342	40.272	0.00	0.00
ATOM	5789	N	GLU	X	385	61.947	10.605	39.356	0.00	0.00
ATOM	5790	H	GLU	X	385	62.468	10.266	38.559	0.00	0.00
ATOM	5791	CA	GLU	X	385	62.745	10.909	40.506	0.00	0.00
ATOM	5792	HA	GLU	X	385	62.148	11.204	41.369	0.00	0.00
ATOM	5793	CB	GLU	X	385	63.552	9.663	40.935	0.00	0.00
ATOM	5794	HB2	GLU	X	385	64.203	9.462	40.083	0.00	0.00
ATOM	5795	HB3	GLU	X	385	64.190	9.904	41.785	0.00	0.00
ATOM	5796	CG	GLU	X	385	62.634	8.475	41.389	0.00	0.00
ATOM	5797	HG2	GLU	X	385	61.912	8.198	40.620	0.00	0.00
ATOM	5798	HG3	GLU	X	385	63.361	7.701	41.636	0.00	0.00
ATOM	5799	CD	GLU	X	385	61.921	8.687	42.718	0.00	0.00
ATOM	5800	OE1	GLU	X	385	62.082	9.684	43.465	0.00	0.00
ATOM	5801	OE2	GLU	X	385	61.092	7.777	43.080	0.00	0.00
ATOM	5802	C	GLU	X	385	63.799	11.963	40.182	0.00	0.00
ATOM	5803	O	GLU	X	385	64.576	12.340	41.006	0.00	0.00
ATOM	5804	N	ASP	X	386	63.892	12.522	38.958	0.00	0.00
ATOM	5805	H	ASP	X	386	63.271	12.228	38.219	0.00	0.00
ATOM	5806	CA	ASP	X	386	64.572	13.799	38.709	0.00	0.00
ATOM	5807	HA	ASP	X	386	65.602	13.603	39.008	0.00	0.00
ATOM	5808	CB	ASP	X	386	64.367	14.077	37.131	0.00	0.00
ATOM	5809	HB2	ASP	X	386	64.850	13.297	36.542	0.00	0.00
ATOM	5810	HB3	ASP	X	386	63.300	14.174	36.931	0.00	0.00
ATOM	5811	CG	ASP	X	386	65.144	15.358	36.735	0.00	0.00
ATOM	5812	OD1	ASP	X	386	64.481	16.415	36.424	0.00	0.00
ATOM	5813	OD2	ASP	X	386	66.377	15.371	36.792	0.00	0.00
ATOM	5814	C	ASP	X	386	64.087	15.052	39.618	0.00	0.00
ATOM	5815	O	ASP	X	386	62.917	15.385	39.627	0.00	0.00
ATOM	5816	N	PRO	X	387	64.990	15.716	40.316	0.00	0.00
ATOM	5817	CD	PRO	X	387	66.383	15.375	40.525	0.00	0.00
ATOM	5818	HD2	PRO	X	387	66.945	15.294	39.595	0.00	0.00
ATOM	5819	HD3	PRO	X	387	66.450	14.425	41.056	0.00	0.00
ATOM	5820	CG	PRO	X	387	67.080	16.454	41.371	0.00	0.00
ATOM	5821	HG2	PRO	X	387	67.548	17.185	40.712	0.00	0.00
ATOM	5822	HG3	PRO	X	387	67.848	16.065	42.040	0.00	0.00
ATOM	5823	CB	PRO	X	387	65.875	17.145	42.044	0.00	0.00
ATOM	5824	HB2	PRO	X	387	65.891	18.199	42.323	0.00	0.00
ATOM	5825	HB3	PRO	X	387	65.647	16.720	43.022	0.00	0.00
ATOM	5826	CA	PRO	X	387	64.601	16.853	41.147	0.00	0.00
ATOM	5827	HA	PRO	X	387	63.795	16.493	41.787	0.00	0.00
ATOM	5828	C	PRO	X	387	64.154	18.125	40.463	0.00	0.00
ATOM	5829	O	PRO	X	387	63.309	18.848	40.975	0.00	0.00
ATOM	5830	N	ALA	X	388	64.618	18.436	39.239	0.00	0.00
ATOM	5831	H	ALA	X	388	65.285	17.823	38.793	0.00	0.00
ATOM	5832	CA	ALA	X	388	64.142	19.631	38.547	0.00	0.00
ATOM	5833	HA	ALA	X	388	64.404	20.496	39.158	0.00	0.00
ATOM	5834	CB	ALA	X	388	64.881	19.781	37.183	0.00	0.00
ATOM	5835	HB1	ALA	X	388	64.641	18.913	36.569	0.00	0.00
ATOM	5836	HB2	ALA	X	388	64.589	20.716	36.705	0.00	0.00
ATOM	5837	HB3	ALA	X	388	65.957	19.796	37.359	0.00	0.00
ATOM	5838	C	ALA	X	388	62.631	19.530	38.344	0.00	0.00
ATOM	5839	O	ALA	X	388	61.907	20.476	38.681	0.00	0.00
ATOM	5840	N	ARG	X	389	62.156	18.398	37.768	0.00	0.00
ATOM	5841	H	ARG	X	389	62.728	17.638	37.427	0.00	0.00
ATOM	5842	CA	ARG	X	389	60.732	18.231	37.479	0.00	0.00
ATOM	5843	HA	ARG	X	389	60.434	18.928	36.696	0.00	0.00
ATOM	5844	CB	ARG	X	389	60.535	16.820	37.018	0.00	0.00
ATOM	5845	HB2	ARG	X	389	61.148	16.168	37.640	0.00	0.00
ATOM	5846	HB3	ARG	X	389	59.483	16.621	37.218	0.00	0.00
ATOM	5847	CG	ARG	X	389	60.922	16.577	35.570	0.00	0.00

ATOM	5848	HG2	ARG	X	389	62.003	16.606	35.436	0.00	0.00
ATOM	5849	HG3	ARG	X	389	60.650	15.537	35.392	0.00	0.00
ATOM	5850	CD	ARG	X	389	60.321	17.575	34.590	0.00	0.00
ATOM	5851	HD2	ARG	X	389	59.279	17.809	34.811	0.00	0.00
ATOM	5852	HD3	ARG	X	389	60.898	18.489	34.732	0.00	0.00
ATOM	5853	NE	ARG	X	389	60.394	17.068	33.262	0.00	0.00
ATOM	5854	HE	ARG	X	389	60.464	16.070	33.120	0.00	0.00
ATOM	5855	CZ	ARG	X	389	59.966	17.660	32.164	0.00	0.00
ATOM	5856	NH1	ARG	X	389	59.508	18.923	32.148	0.00	0.00
ATOM	5857	HH11	ARG	X	389	59.513	19.481	32.990	0.00	0.00
ATOM	5858	HH12	ARG	X	389	59.092	19.242	31.285	0.00	0.00
ATOM	5859	NH2	ARG	X	389	59.925	17.074	30.994	0.00	0.00
ATOM	5860	HH21	ARG	X	389	60.252	16.134	30.817	0.00	0.00
ATOM	5861	HH22	ARG	X	389	59.381	17.501	30.259	0.00	0.00
ATOM	5862	C	ARG	X	389	59.832	18.389	38.677	0.00	0.00
ATOM	5863	O	ARG	X	389	58.782	18.995	38.608	0.00	0.00
ATOM	5864	N	LEU	X	390	60.384	18.080	39.875	0.00	0.00
ATOM	5865	H	LEU	X	390	61.380	17.940	39.962	0.00	0.00
ATOM	5866	CA	LEU	X	390	59.651	18.200	41.143	0.00	0.00
ATOM	5867	HA	LEU	X	390	58.657	17.764	41.046	0.00	0.00
ATOM	5868	CB	LEU	X	390	60.285	17.399	42.314	0.00	0.00
ATOM	5869	HB2	LEU	X	390	61.306	17.774	42.395	0.00	0.00
ATOM	5870	HB3	LEU	X	390	59.806	17.650	43.260	0.00	0.00
ATOM	5871	CG	LEU	X	390	60.270	15.899	41.972	0.00	0.00
ATOM	5872	HG	LEU	X	390	60.728	15.758	40.993	0.00	0.00
ATOM	5873	CD1	LEU	X	390	61.145	15.153	42.959	0.00	0.00
ATOM	5874	HD11	LEU	X	390	61.171	14.100	42.679	0.00	0.00
ATOM	5875	HD12	LEU	X	390	62.138	15.589	43.065	0.00	0.00
ATOM	5876	HD13	LEU	X	390	60.688	15.135	43.949	0.00	0.00
ATOM	5877	CD2	LEU	X	390	58.870	15.280	41.883	0.00	0.00
ATOM	5878	HD21	LEU	X	390	58.331	15.325	42.830	0.00	0.00
ATOM	5879	HD22	LEU	X	390	58.345	15.832	41.103	0.00	0.00
ATOM	5880	HD23	LEU	X	390	58.997	14.229	41.625	0.00	0.00
ATOM	5881	C	LEU	X	390	59.371	19.619	41.497	0.00	0.00
ATOM	5882	O	LEU	X	390	58.190	19.981	41.754	0.00	0.00
ATOM	5883	N	ARG	X	391	60.346	20.559	41.448	0.00	0.00
ATOM	5884	H	ARG	X	391	61.266	20.158	41.331	0.00	0.00
ATOM	5885	CA	ARG	X	391	60.133	21.998	41.612	0.00	0.00
ATOM	5886	HA	ARG	X	391	59.494	22.079	42.491	0.00	0.00
ATOM	5887	CB	ARG	X	391	61.427	22.673	42.111	0.00	0.00
ATOM	5888	HB2	ARG	X	391	61.251	23.728	42.322	0.00	0.00
ATOM	5889	HB3	ARG	X	391	61.763	22.207	43.037	0.00	0.00
ATOM	5890	CG	ARG	X	391	62.666	22.515	41.182	0.00	0.00
ATOM	5891	HG2	ARG	X	391	63.109	21.539	41.377	0.00	0.00
ATOM	5892	HG3	ARG	X	391	62.397	22.498	40.126	0.00	0.00
ATOM	5893	CD	ARG	X	391	63.708	23.603	41.508	0.00	0.00
ATOM	5894	HD2	ARG	X	391	63.395	24.532	41.033	0.00	0.00
ATOM	5895	HD3	ARG	X	391	63.666	23.879	42.562	0.00	0.00
ATOM	5896	NE	ARG	X	391	65.109	23.253	41.138	0.00	0.00
ATOM	5897	HE	ARG	X	391	65.848	23.375	41.816	0.00	0.00
ATOM	5898	CZ	ARG	X	391	65.627	23.454	39.968	0.00	0.00
ATOM	5899	NH1	ARG	X	391	64.971	23.408	38.840	0.00	0.00
ATOM	5900	HH11	ARG	X	391	63.991	23.173	38.772	0.00	0.00
ATOM	5901	HH12	ARG	X	391	65.453	23.553	37.964	0.00	0.00
ATOM	5902	NH2	ARG	X	391	66.915	23.754	39.874	0.00	0.00
ATOM	5903	HH21	ARG	X	391	67.487	23.820	40.704	0.00	0.00
ATOM	5904	HH22	ARG	X	391	67.341	24.017	38.997	0.00	0.00
ATOM	5905	C	ARG	X	391	59.388	22.682	40.398	0.00	0.00
ATOM	5906	O	ARG	X	391	58.758	23.692	40.625	0.00	0.00
ATOM	5907	N	GLU	X	392	59.381	22.097	39.190	0.00	0.00
ATOM	5908	H	GLU	X	392	59.852	21.218	39.031	0.00	0.00
ATOM	5909	CA	GLU	X	392	58.614	22.715	38.106	0.00	0.00
ATOM	5910	HA	GLU	X	392	58.716	23.800	38.115	0.00	0.00
ATOM	5911	CB	GLU	X	392	59.168	21.983	36.807	0.00	0.00
ATOM	5912	HB2	GLU	X	392	60.247	22.134	36.764	0.00	0.00
ATOM	5913	HB3	GLU	X	392	58.953	20.921	36.928	0.00	0.00
ATOM	5914	CG	GLU	X	392	58.605	22.572	35.505	0.00	0.00
ATOM	5915	HG2	GLU	X	392	57.566	22.250	35.435	0.00	0.00
ATOM	5916	HG3	GLU	X	392	58.888	23.624	35.487	0.00	0.00
ATOM	5917	CD	GLU	X	392	59.303	22.062	34.307	0.00	0.00

ATOM	5918	OE1	GLU	X	392	59.151	20.830	34.070	0.00	0.00
ATOM	5919	OE2	GLU	X	392	59.996	22.781	33.620	0.00	0.00
ATOM	5920	C	GLU	X	392	57.143	22.341	38.356	0.00	0.00
ATOM	5921	O	GLU	X	392	56.248	23.187	38.188	0.00	0.00
ATOM	5922	N	ALA	X	393	56.906	21.100	38.888	0.00	0.00
ATOM	5923	H	ALA	X	393	57.717	20.500	38.953	0.00	0.00
ATOM	5924	CA	ALA	X	393	55.507	20.629	38.984	0.00	0.00
ATOM	5925	HA	ALA	X	393	54.883	20.902	38.134	0.00	0.00
ATOM	5926	CB	ALA	X	393	55.666	19.121	39.227	0.00	0.00
ATOM	5927	HB1	ALA	X	393	56.476	18.931	39.932	0.00	0.00
ATOM	5928	HB2	ALA	X	393	54.737	18.647	39.542	0.00	0.00
ATOM	5929	HB3	ALA	X	393	55.988	18.652	38.298	0.00	0.00
ATOM	5930	C	ALA	X	393	54.882	21.374	40.177	0.00	0.00
ATOM	5931	O	ALA	X	393	53.727	21.749	40.078	0.00	0.00
ATOM	5932	N	LEU	X	394	55.593	21.500	41.219	0.00	0.00
ATOM	5933	H	LEU	X	394	56.518	21.098	41.266	0.00	0.00
ATOM	5934	CA	LEU	X	394	55.104	22.250	42.435	0.00	0.00
ATOM	5935	HA	LEU	X	394	54.116	21.877	42.707	0.00	0.00
ATOM	5936	CB	LEU	X	394	56.234	22.002	43.451	0.00	0.00
ATOM	5937	HB2	LEU	X	394	56.265	20.922	43.596	0.00	0.00
ATOM	5938	HB3	LEU	X	394	57.156	22.461	43.096	0.00	0.00
ATOM	5939	CG	LEU	X	394	55.786	22.756	44.797	0.00	0.00
ATOM	5940	HG	LEU	X	394	55.634	23.800	44.524	0.00	0.00
ATOM	5941	CD1	LEU	X	394	54.519	22.165	45.402	0.00	0.00
ATOM	5942	HD11	LEU	X	394	54.268	22.568	46.384	0.00	0.00
ATOM	5943	HD12	LEU	X	394	53.728	22.501	44.731	0.00	0.00
ATOM	5944	HD13	LEU	X	394	54.636	21.084	45.473	0.00	0.00
ATOM	5945	CD2	LEU	X	394	56.961	22.605	45.792	0.00	0.00
ATOM	5946	HD21	LEU	X	394	57.910	22.926	45.363	0.00	0.00
ATOM	5947	HD22	LEU	X	394	56.767	23.013	46.783	0.00	0.00
ATOM	5948	HD23	LEU	X	394	57.140	21.555	46.025	0.00	0.00
ATOM	5949	C	LEU	X	394	54.861	23.764	42.103	0.00	0.00
ATOM	5950	O	LEU	X	394	53.952	24.347	42.623	0.00	0.00
ATOM	5951	N	SER	X	395	55.558	24.374	41.135	0.00	0.00
ATOM	5952	H	SER	X	395	56.398	23.900	40.835	0.00	0.00
ATOM	5953	CA	SER	X	395	55.209	25.739	40.694	0.00	0.00
ATOM	5954	HA	SER	X	395	54.967	26.322	41.582	0.00	0.00
ATOM	5955	CB	SER	X	395	56.312	26.375	39.903	0.00	0.00
ATOM	5956	HB2	SER	X	395	56.518	25.974	38.910	0.00	0.00
ATOM	5957	HB3	SER	X	395	56.131	27.444	39.796	0.00	0.00
ATOM	5958	OG	SER	X	395	57.529	26.239	40.625	0.00	0.00
ATOM	5959	HG	SER	X	395	57.888	25.353	40.711	0.00	0.00
ATOM	5960	C	SER	X	395	53.974	25.687	39.731	0.00	0.00
ATOM	5961	O	SER	X	395	53.146	26.639	39.839	0.00	0.00
ATOM	5962	N	ASP	X	396	53.798	24.681	38.897	0.00	0.00
ATOM	5963	H	ASP	X	396	54.588	24.060	38.794	0.00	0.00
ATOM	5964	CA	ASP	X	396	52.541	24.473	38.156	0.00	0.00
ATOM	5965	HA	ASP	X	396	52.349	25.282	37.451	0.00	0.00
ATOM	5966	CB	ASP	X	396	52.715	23.304	37.181	0.00	0.00
ATOM	5967	HB2	ASP	X	396	53.769	23.191	36.926	0.00	0.00
ATOM	5968	HB3	ASP	X	396	52.407	22.376	37.663	0.00	0.00
ATOM	5969	CG	ASP	X	396	51.964	23.397	35.855	0.00	0.00
ATOM	5970	OD1	ASP	X	396	51.898	24.436	35.160	0.00	0.00
ATOM	5971	OD2	ASP	X	396	51.279	22.367	35.424	0.00	0.00
ATOM	5972	C	ASP	X	396	51.292	24.176	39.085	0.00	0.00
ATOM	5973	O	ASP	X	396	50.305	24.882	38.977	0.00	0.00
ATOM	5974	N	VAL	X	397	51.410	23.294	40.030	0.00	0.00
ATOM	5975	H	VAL	X	397	52.235	22.715	40.100	0.00	0.00
ATOM	5976	CA	VAL	X	397	50.465	23.139	41.102	0.00	0.00
ATOM	5977	HA	VAL	X	397	49.493	22.756	40.790	0.00	0.00
ATOM	5978	CB	VAL	X	397	51.007	22.193	42.237	0.00	0.00
ATOM	5979	HB	VAL	X	397	52.011	22.458	42.567	0.00	0.00
ATOM	5980	CG1	VAL	X	397	50.230	22.135	43.558	0.00	0.00
ATOM	5981	HG11	VAL	X	397	50.248	21.132	43.985	0.00	0.00
ATOM	5982	HG12	VAL	X	397	50.455	22.863	44.337	0.00	0.00
ATOM	5983	HG13	VAL	X	397	49.188	22.283	43.275	0.00	0.00
ATOM	5984	CG2	VAL	X	397	51.228	20.781	41.701	0.00	0.00
ATOM	5985	HG21	VAL	X	397	50.337	20.160	41.606	0.00	0.00
ATOM	5986	HG22	VAL	X	397	51.663	20.814	40.702	0.00	0.00
ATOM	5987	HG23	VAL	X	397	51.922	20.361	42.429	0.00	0.00

ATOM	5988	C	VAL	X	397	50.153	24.480	41.784	0.00	0.00
ATOM	5989	O	VAL	X	397	48.998	24.909	41.933	0.00	0.00
ATOM	5990	N	VAL	X	398	51.150	25.169	42.318	0.00	0.00
ATOM	5991	H	VAL	X	398	52.079	24.776	42.354	0.00	0.00
ATOM	5992	CA	VAL	X	398	50.956	26.357	43.144	0.00	0.00
ATOM	5993	HA	VAL	X	398	50.168	26.197	43.880	0.00	0.00
ATOM	5994	CB	VAL	X	398	52.191	26.614	43.984	0.00	0.00
ATOM	5995	HB	VAL	X	398	53.021	26.619	43.277	0.00	0.00
ATOM	5996	CG1	VAL	X	398	52.258	27.974	44.736	0.00	0.00
ATOM	5997	HG11	VAL	X	398	51.402	28.135	45.392	0.00	0.00
ATOM	5998	HG12	VAL	X	398	53.175	28.026	45.323	0.00	0.00
ATOM	5999	HG13	VAL	X	398	52.349	28.699	43.927	0.00	0.00
ATOM	6000	CG2	VAL	X	398	52.537	25.507	44.978	0.00	0.00
ATOM	6001	HG21	VAL	X	398	51.902	25.595	45.860	0.00	0.00
ATOM	6002	HG22	VAL	X	398	52.419	24.517	44.537	0.00	0.00
ATOM	6003	HG23	VAL	X	398	53.545	25.733	45.327	0.00	0.00
ATOM	6004	C	VAL	X	398	50.446	27.578	42.360	0.00	0.00
ATOM	6005	O	VAL	X	398	50.083	28.549	43.000	0.00	0.00
ATOM	6006	N	GLY	X	399	50.423	27.537	41.034	0.00	0.00
ATOM	6007	H	GLY	X	399	50.621	26.649	40.595	0.00	0.00
ATOM	6008	CA	GLY	X	399	49.801	28.486	40.096	0.00	0.00
ATOM	6009	HA2	GLY	X	399	49.680	29.451	40.600	0.00	0.00
ATOM	6010	HA3	GLY	X	399	50.494	28.600	39.239	0.00	0.00
ATOM	6011	C	GLY	X	399	48.325	28.106	39.641	0.00	0.00
ATOM	6012	O	GLY	X	399	47.512	29.018	39.374	0.00	0.00
ATOM	6013	N	ASP	X	400	47.983	26.816	39.586	0.00	0.00
ATOM	6014	H	ASP	X	400	48.704	26.115	39.676	0.00	0.00
ATOM	6015	CA	ASP	X	400	46.662	26.348	39.247	0.00	0.00
ATOM	6016	HA	ASP	X	400	46.448	26.908	38.337	0.00	0.00
ATOM	6017	CB	ASP	X	400	46.677	24.833	38.925	0.00	0.00
ATOM	6018	HB2	ASP	X	400	47.351	24.339	39.625	0.00	0.00
ATOM	6019	HB3	ASP	X	400	45.704	24.365	39.067	0.00	0.00
ATOM	6020	CG	ASP	X	400	47.234	24.620	37.497	0.00	0.00
ATOM	6021	OD1	ASP	X	400	47.163	25.577	36.614	0.00	0.00
ATOM	6022	OD2	ASP	X	400	47.777	23.573	37.202	0.00	0.00
ATOM	6023	C	ASP	X	400	45.611	26.643	40.287	0.00	0.00
ATOM	6024	O	ASP	X	400	44.913	27.613	40.083	0.00	0.00
ATOM	6025	N	HIE	X	401	45.645	26.020	41.448	0.00	0.00
ATOM	6026	H	HIE	X	401	46.353	25.302	41.506	0.00	0.00
ATOM	6027	CA	HIE	X	401	44.584	26.100	42.405	0.00	0.00
ATOM	6028	HA	HIE	X	401	43.581	26.274	42.017	0.00	0.00
ATOM	6029	CB	HIE	X	401	44.330	24.757	43.067	0.00	0.00
ATOM	6030	HB2	HIE	X	401	44.696	24.045	42.328	0.00	0.00
ATOM	6031	HB3	HIE	X	401	44.864	24.665	44.013	0.00	0.00
ATOM	6032	CG	HIE	X	401	42.890	24.379	43.466	0.00	0.00
ATOM	6033	ND1	HIE	X	401	41.743	24.898	42.875	0.00	0.00
ATOM	6034	CE1	HIE	X	401	40.725	24.527	43.726	0.00	0.00
ATOM	6035	HE1	HIE	X	401	39.671	24.760	43.695	0.00	0.00
ATOM	6036	NE2	HIE	X	401	41.178	23.932	44.819	0.00	0.00
ATOM	6037	HE2	HIE	X	401	40.580	23.479	45.494	0.00	0.00
ATOM	6038	CD2	HIE	X	401	42.557	23.858	44.675	0.00	0.00
ATOM	6039	HD2	HIE	X	401	43.207	23.306	45.338	0.00	0.00
ATOM	6040	C	HIE	X	401	44.659	27.276	43.403	0.00	0.00
ATOM	6041	O	HIE	X	401	43.781	27.447	44.258	0.00	0.00
ATOM	6042	N	ASN	X	402	45.670	28.162	43.195	0.00	0.00
ATOM	6043	H	ASN	X	402	46.397	27.914	42.539	0.00	0.00
ATOM	6044	CA	ASN	X	402	45.704	29.543	43.677	0.00	0.00
ATOM	6045	HA	ASN	X	402	45.050	29.595	44.547	0.00	0.00
ATOM	6046	CB	ASN	X	402	47.059	29.789	44.217	0.00	0.00
ATOM	6047	HB2	ASN	X	402	47.854	29.563	43.506	0.00	0.00
ATOM	6048	HB3	ASN	X	402	47.267	30.808	44.543	0.00	0.00
ATOM	6049	CG	ASN	X	402	47.342	29.022	45.497	0.00	0.00
ATOM	6050	OD1	ASN	X	402	46.646	29.034	46.524	0.00	0.00
ATOM	6051	ND2	ASN	X	402	48.465	28.416	45.562	0.00	0.00
ATOM	6052	HD21	ASN	X	402	48.760	27.794	46.300	0.00	0.00
ATOM	6053	HD22	ASN	X	402	49.172	28.446	44.841	0.00	0.00
ATOM	6054	C	ASN	X	402	45.323	30.645	42.683	0.00	0.00
ATOM	6055	O	ASN	X	402	44.967	31.676	43.178	0.00	0.00
ATOM	6056	N	VAL	X	403	45.476	30.506	41.336	0.00	0.00
ATOM	6057	H	VAL	X	403	45.513	29.563	40.977	0.00	0.00

ATOM	6058	CA	VAL	X	403	45.405	31.599	40.342	0.00	0.00
ATOM	6059	HA	VAL	X	403	44.696	32.336	40.720	0.00	0.00
ATOM	6060	CB	VAL	X	403	46.741	32.326	40.061	0.00	0.00
ATOM	6061	HB	VAL	X	403	47.428	31.664	39.534	0.00	0.00
ATOM	6062	CG1	VAL	X	403	46.531	33.478	39.099	0.00	0.00
ATOM	6063	HG11	VAL	X	403	45.864	34.156	39.632	0.00	0.00
ATOM	6064	HG12	VAL	X	403	47.461	34.033	38.970	0.00	0.00
ATOM	6065	HG13	VAL	X	403	46.182	33.160	38.117	0.00	0.00
ATOM	6066	CG2	VAL	X	403	47.460	32.771	41.356	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.815	33.518	41.819	0.00	0.00
ATOM	6068	HG22	VAL	X	403	47.753	31.960	42.022	0.00	0.00
ATOM	6069	HG23	VAL	X	403	48.383	33.299	41.118	0.00	0.00
ATOM	6070	C	VAL	X	403	44.790	31.216	38.985	0.00	0.00
ATOM	6071	O	VAL	X	403	43.632	31.618	38.704	0.00	0.00
ATOM	6072	N	VAL	X	404	45.434	30.393	38.152	0.00	0.00
ATOM	6073	H	VAL	X	404	46.306	29.948	38.399	0.00	0.00
ATOM	6074	CA	VAL	X	404	45.037	30.073	36.805	0.00	0.00
ATOM	6075	HA	VAL	X	404	44.823	31.014	36.299	0.00	0.00
ATOM	6076	CB	VAL	X	404	46.079	29.225	36.044	0.00	0.00
ATOM	6077	HB	VAL	X	404	46.282	28.315	36.609	0.00	0.00
ATOM	6078	CG1	VAL	X	404	45.539	28.880	34.630	0.00	0.00
ATOM	6079	HG11	VAL	X	404	46.305	28.404	34.018	0.00	0.00
ATOM	6080	HG12	VAL	X	404	44.716	28.167	34.666	0.00	0.00
ATOM	6081	HG13	VAL	X	404	45.332	29.832	34.141	0.00	0.00
ATOM	6082	CG2	VAL	X	404	47.365	29.938	36.004	0.00	0.00
ATOM	6083	HG21	VAL	X	404	48.172	29.288	35.669	0.00	0.00
ATOM	6084	HG22	VAL	X	404	47.284	30.775	35.310	0.00	0.00
ATOM	6085	HG23	VAL	X	404	47.678	30.304	36.982	0.00	0.00
ATOM	6086	C	VAL	X	404	43.638	29.411	36.756	0.00	0.00
ATOM	6087	O	VAL	X	404	42.704	29.793	36.019	0.00	0.00
ATOM	6088	N	CYX	X	405	43.335	28.533	37.747	0.00	0.00
ATOM	6089	H	CYX	X	405	44.031	28.175	38.386	0.00	0.00
ATOM	6090	CA	CYX	X	405	42.004	27.907	37.863	0.00	0.00
ATOM	6091	HA	CYX	X	405	41.709	27.673	36.840	0.00	0.00
ATOM	6092	CB	CYX	X	405	42.095	26.583	38.638	0.00	0.00
ATOM	6093	HB2	CYX	X	405	42.497	26.848	39.616	0.00	0.00
ATOM	6094	HB3	CYX	X	405	41.143	26.164	38.963	0.00	0.00
ATOM	6095	SG	CYX	X	405	43.251	25.357	37.971	0.00	0.00
ATOM	6096	C	CYX	X	405	40.857	28.776	38.315	0.00	0.00
ATOM	6097	O	CYX	X	405	39.783	28.757	37.767	0.00	0.00
ATOM	6098	N	PRO	X	406	41.148	29.609	39.326	0.00	0.00
ATOM	6099	CD	PRO	X	406	42.008	29.403	40.473	0.00	0.00
ATOM	6100	HD2	PRO	X	406	43.067	29.496	40.230	0.00	0.00
ATOM	6101	HD3	PRO	X	406	41.960	28.398	40.893	0.00	0.00
ATOM	6102	CG	PRO	X	406	41.498	30.277	41.575	0.00	0.00
ATOM	6103	HG2	PRO	X	406	42.361	30.614	42.148	0.00	0.00
ATOM	6104	HG3	PRO	X	406	40.730	29.842	42.215	0.00	0.00
ATOM	6105	CB	PRO	X	406	40.979	31.448	40.783	0.00	0.00
ATOM	6106	HB2	PRO	X	406	41.795	31.921	40.235	0.00	0.00
ATOM	6107	HB3	PRO	X	406	40.398	32.160	41.369	0.00	0.00
ATOM	6108	CA	PRO	X	406	40.218	30.688	39.690	0.00	0.00
ATOM	6109	HA	PRO	X	406	39.287	30.294	40.098	0.00	0.00
ATOM	6110	C	PRO	X	406	39.803	31.578	38.501	0.00	0.00
ATOM	6111	O	PRO	X	406	38.606	31.677	38.260	0.00	0.00
ATOM	6112	N	VAL	X	407	40.787	32.089	37.753	0.00	0.00
ATOM	6113	H	VAL	X	407	41.696	32.238	38.166	0.00	0.00
ATOM	6114	CA	VAL	X	407	40.573	32.834	36.551	0.00	0.00
ATOM	6115	HA	VAL	X	407	40.029	33.755	36.761	0.00	0.00
ATOM	6116	CB	VAL	X	407	41.973	33.215	35.885	0.00	0.00
ATOM	6117	HB	VAL	X	407	42.589	32.335	36.068	0.00	0.00
ATOM	6118	CG1	VAL	X	407	41.858	33.654	34.407	0.00	0.00
ATOM	6119	HG11	VAL	X	407	41.697	32.819	33.725	0.00	0.00
ATOM	6120	HG12	VAL	X	407	41.166	34.467	34.188	0.00	0.00
ATOM	6121	HG13	VAL	X	407	42.843	33.978	34.069	0.00	0.00
ATOM	6122	CG2	VAL	X	407	42.575	34.465	36.578	0.00	0.00
ATOM	6123	HG21	VAL	X	407	43.286	35.003	35.951	0.00	0.00
ATOM	6124	HG22	VAL	X	407	41.838	35.266	36.637	0.00	0.00
ATOM	6125	HG23	VAL	X	407	43.055	34.260	37.535	0.00	0.00
ATOM	6126	C	VAL	X	407	39.730	31.978	35.521	0.00	0.00
ATOM	6127	O	VAL	X	407	38.895	32.632	34.813	0.00	0.00

ATOM	6128	N	ALA	X	408	39.955	30.705	35.313	0.00	0.00
ATOM	6129	H	ALA	X	408	40.661	30.256	35.879	0.00	0.00
ATOM	6130	CA	ALA	X	408	39.232	29.893	34.323	0.00	0.00
ATOM	6131	HA	ALA	X	408	39.311	30.330	33.327	0.00	0.00
ATOM	6132	CB	ALA	X	408	39.816	28.516	34.220	0.00	0.00
ATOM	6133	HB1	ALA	X	408	39.245	27.954	33.481	0.00	0.00
ATOM	6134	HB2	ALA	X	408	40.844	28.464	33.861	0.00	0.00
ATOM	6135	HB3	ALA	X	408	39.703	28.034	35.191	0.00	0.00
ATOM	6136	C	ALA	X	408	37.784	29.708	34.835	0.00	0.00
ATOM	6137	O	ALA	X	408	36.830	29.498	34.049	0.00	0.00
ATOM	6138	N	GLN	X	409	37.508	29.645	36.163	0.00	0.00
ATOM	6139	H	GLN	X	409	38.283	29.690	36.809	0.00	0.00
ATOM	6140	CA	GLN	X	409	36.173	29.663	36.651	0.00	0.00
ATOM	6141	HA	GLN	X	409	35.608	28.882	36.144	0.00	0.00
ATOM	6142	CB	GLN	X	409	36.189	29.235	38.116	0.00	0.00
ATOM	6143	HB2	GLN	X	409	37.100	28.669	38.308	0.00	0.00
ATOM	6144	HB3	GLN	X	409	36.080	30.121	38.741	0.00	0.00
ATOM	6145	CG	GLN	X	409	34.970	28.408	38.423	0.00	0.00
ATOM	6146	HG2	GLN	X	409	34.047	28.872	38.077	0.00	0.00
ATOM	6147	HG3	GLN	X	409	35.040	27.509	37.810	0.00	0.00
ATOM	6148	CD	GLN	X	409	34.837	28.057	39.871	0.00	0.00
ATOM	6149	OE1	GLN	X	409	34.487	28.875	40.702	0.00	0.00
ATOM	6150	NE2	GLN	X	409	35.238	26.909	40.310	0.00	0.00
ATOM	6151	HE21	GLN	X	409	35.108	26.680	41.285	0.00	0.00
ATOM	6152	HE22	GLN	X	409	35.415	26.223	39.591	0.00	0.00
ATOM	6153	C	GLN	X	409	35.385	31.012	36.481	0.00	0.00
ATOM	6154	O	GLN	X	409	34.309	30.947	35.912	0.00	0.00
ATOM	6155	N	LEU	X	410	35.904	32.182	36.878	0.00	0.00
ATOM	6156	H	LEU	X	410	36.790	32.068	37.349	0.00	0.00
ATOM	6157	CA	LEU	X	410	35.346	33.519	36.703	0.00	0.00
ATOM	6158	HA	LEU	X	410	34.549	33.677	37.429	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.560	34.568	37.010	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.082	34.252	37.913	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.211	34.399	36.153	0.00	0.00
ATOM	6162	CG	LEU	X	410	36.401	36.088	36.974	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.781	36.245	36.091	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.472	36.568	38.099	0.00	0.00
ATOM	6165	HD11	LEU	X	410	35.318	37.642	37.993	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.478	36.137	37.971	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.833	36.331	39.100	0.00	0.00
ATOM	6168	CD2	LEU	X	410	37.736	36.804	36.979	0.00	0.00
ATOM	6169	HD21	LEU	X	410	38.216	36.359	36.107	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.560	37.875	36.878	0.00	0.00
ATOM	6171	HD23	LEU	X	410	38.394	36.494	37.790	0.00	0.00
ATOM	6172	C	LEU	X	410	34.798	33.730	35.318	0.00	0.00
ATOM	6173	O	LEU	X	410	33.657	34.186	35.141	0.00	0.00
ATOM	6174	N	ALA	X	411	35.599	33.496	34.301	0.00	0.00
ATOM	6175	H	ALA	X	411	36.561	33.470	34.609	0.00	0.00
ATOM	6176	CA	ALA	X	411	35.313	33.461	32.929	0.00	0.00
ATOM	6177	HA	ALA	X	411	35.230	34.495	32.596	0.00	0.00
ATOM	6178	CB	ALA	X	411	36.505	32.843	32.194	0.00	0.00
ATOM	6179	HB1	ALA	X	411	36.535	31.791	32.476	0.00	0.00
ATOM	6180	HB2	ALA	X	411	36.504	32.916	31.106	0.00	0.00
ATOM	6181	HB3	ALA	X	411	37.393	33.340	32.584	0.00	0.00
ATOM	6182	C	ALA	X	411	33.964	32.779	32.593	0.00	0.00
ATOM	6183	O	ALA	X	411	33.112	33.531	32.175	0.00	0.00
ATOM	6184	N	GLY	X	412	33.763	31.497	32.926	0.00	0.00
ATOM	6185	H	GLY	X	412	34.565	31.017	33.309	0.00	0.00
ATOM	6186	CA	GLY	X	412	32.560	30.663	32.789	0.00	0.00
ATOM	6187	HA2	GLY	X	412	32.251	30.645	31.732	0.00	0.00
ATOM	6188	HA3	GLY	X	412	32.564	29.654	33.179	0.00	0.00
ATOM	6189	C	GLY	X	412	31.404	31.218	33.596	0.00	0.00
ATOM	6190	O	GLY	X	412	30.430	31.548	33.001	0.00	0.00
ATOM	6191	N	ARG	X	413	31.648	31.322	34.894	0.00	0.00
ATOM	6192	H	ARG	X	413	32.582	31.120	35.220	0.00	0.00
ATOM	6193	CA	ARG	X	413	30.597	31.882	35.802	0.00	0.00
ATOM	6194	HA	ARG	X	413	29.777	31.173	35.688	0.00	0.00
ATOM	6195	CB	ARG	X	413	30.998	31.705	37.308	0.00	0.00
ATOM	6196	HB2	ARG	X	413	31.637	32.544	37.585	0.00	0.00
ATOM	6197	HB3	ARG	X	413	30.137	31.959	37.927	0.00	0.00

ATOM	6198	CG	ARG	X	413	31.570	30.368	37.708	0.00	0.00
ATOM	6199	HG2	ARG	X	413	32.340	29.923	37.079	0.00	0.00
ATOM	6200	HG3	ARG	X	413	32.052	30.570	38.665	0.00	0.00
ATOM	6201	CD	ARG	X	413	30.430	29.353	38.039	0.00	0.00
ATOM	6202	HD2	ARG	X	413	29.831	29.699	38.882	0.00	0.00
ATOM	6203	HD3	ARG	X	413	29.691	29.122	37.272	0.00	0.00
ATOM	6204	NE	ARG	X	413	31.082	28.040	38.395	0.00	0.00
ATOM	6205	HE	ARG	X	413	31.251	27.342	37.684	0.00	0.00
ATOM	6206	CZ	ARG	X	413	31.367	27.652	39.613	0.00	0.00
ATOM	6207	NH1	ARG	X	413	31.172	28.412	40.626	0.00	0.00
ATOM	6208	HH11	ARG	X	413	30.779	29.340	40.553	0.00	0.00
ATOM	6209	HH12	ARG	X	413	31.483	28.094	41.533	0.00	0.00
ATOM	6210	NH2	ARG	X	413	31.860	26.436	39.881	0.00	0.00
ATOM	6211	HH21	ARG	X	413	32.105	25.833	39.109	0.00	0.00
ATOM	6212	HH22	ARG	X	413	31.791	26.122	40.839	0.00	0.00
ATOM	6213	C	ARG	X	413	30.124	33.299	35.412	0.00	0.00
ATOM	6214	O	ARG	X	413	28.971	33.715	35.678	0.00	0.00
ATOM	6215	N	LEU	X	414	30.892	34.220	34.843	0.00	0.00
ATOM	6216	H	LEU	X	414	31.854	33.945	34.709	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.511	35.481	34.335	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.767	35.936	34.990	0.00	0.00
ATOM	6219	CB	LEU	X	414	31.673	36.530	34.244	0.00	0.00
ATOM	6220	HB2	LEU	X	414	32.450	36.237	33.536	0.00	0.00
ATOM	6221	HB3	LEU	X	414	31.209	37.390	33.760	0.00	0.00
ATOM	6222	CG	LEU	X	414	32.367	36.962	35.577	0.00	0.00
ATOM	6223	HG	LEU	X	414	32.895	36.130	36.043	0.00	0.00
ATOM	6224	CD1	LEU	X	414	33.605	37.753	35.208	0.00	0.00
ATOM	6225	HD11	LEU	X	414	34.080	38.121	36.118	0.00	0.00
ATOM	6226	HD12	LEU	X	414	34.285	37.113	34.645	0.00	0.00
ATOM	6227	HD13	LEU	X	414	33.369	38.586	34.547	0.00	0.00
ATOM	6228	CD2	LEU	X	414	31.349	37.652	36.506	0.00	0.00
ATOM	6229	HD21	LEU	X	414	30.685	38.408	36.085	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.720	36.901	36.984	0.00	0.00
ATOM	6231	HD23	LEU	X	414	31.903	38.173	37.287	0.00	0.00
ATOM	6232	C	LEU	X	414	29.898	35.264	32.925	0.00	0.00
ATOM	6233	O	LEU	X	414	28.738	35.650	32.812	0.00	0.00
ATOM	6234	N	ALA	X	415	30.514	34.716	31.910	0.00	0.00
ATOM	6235	H	ALA	X	415	31.373	34.195	32.014	0.00	0.00
ATOM	6236	CA	ALA	X	415	29.965	34.574	30.512	0.00	0.00
ATOM	6237	HA	ALA	X	415	29.722	35.520	30.027	0.00	0.00
ATOM	6238	CB	ALA	X	415	31.123	34.045	29.686	0.00	0.00
ATOM	6239	HB1	ALA	X	415	30.859	33.858	28.645	0.00	0.00
ATOM	6240	HB2	ALA	X	415	31.944	34.751	29.813	0.00	0.00
ATOM	6241	HB3	ALA	X	415	31.452	33.052	29.993	0.00	0.00
ATOM	6242	C	ALA	X	415	28.739	33.697	30.376	0.00	0.00
ATOM	6243	O	ALA	X	415	27.879	33.975	29.608	0.00	0.00
ATOM	6244	N	ALA	X	416	28.594	32.715	31.231	0.00	0.00
ATOM	6245	H	ALA	X	416	29.359	32.409	31.814	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.303	32.030	31.267	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.003	31.637	30.296	0.00	0.00
ATOM	6248	CB	ALA	X	416	27.367	30.882	32.311	0.00	0.00
ATOM	6249	HB1	ALA	X	416	26.638	30.121	32.035	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.308	30.331	32.308	0.00	0.00
ATOM	6251	HB3	ALA	X	416	27.178	31.223	33.329	0.00	0.00
ATOM	6252	C	ALA	X	416	26.196	33.044	31.697	0.00	0.00
ATOM	6253	O	ALA	X	416	25.078	32.999	31.124	0.00	0.00
ATOM	6254	N	GLN	X	417	26.411	33.776	32.802	0.00	0.00
ATOM	6255	H	GLN	X	417	27.270	33.594	33.301	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.398	34.600	33.495	0.00	0.00
ATOM	6257	HA	GLN	X	417	24.401	34.165	33.429	0.00	0.00
ATOM	6258	CB	GLN	X	417	25.768	34.623	35.022	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.773	35.011	35.192	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.055	35.248	35.557	0.00	0.00
ATOM	6261	CG	GLN	X	417	25.566	33.283	35.686	0.00	0.00
ATOM	6262	HG2	GLN	X	417	24.511	33.124	35.464	0.00	0.00
ATOM	6263	HG3	GLN	X	417	26.193	32.594	35.119	0.00	0.00
ATOM	6264	CD	GLN	X	417	25.781	33.188	37.210	0.00	0.00
ATOM	6265	OE1	GLN	X	417	24.892	32.690	37.859	0.00	0.00
ATOM	6266	NE2	GLN	X	417	26.957	33.439	37.730	0.00	0.00
ATOM	6267	HE21	GLN	X	417	27.177	33.490	38.714	0.00	0.00

ATOM	6268	HE22	GLN	X	417	27.635	33.670	37.017	0.00	0.00
ATOM	6269	C	GLN	X	417	25.382	36.008	32.823	0.00	0.00
ATOM	6270	O	GLN	X	417	24.742	36.850	33.339	0.00	0.00
ATOM	6271	N	GLY	X	418	25.972	36.157	31.645	0.00	0.00
ATOM	6272	H	GLY	X	418	26.672	35.458	31.441	0.00	0.00
ATOM	6273	CA	GLY	X	418	25.746	37.194	30.682	0.00	0.00
ATOM	6274	HA2	GLY	X	418	25.617	36.657	29.707	0.00	0.00
ATOM	6275	HA3	GLY	X	418	24.897	37.726	30.822	0.00	0.00
ATOM	6276	C	GLY	X	418	26.929	38.151	30.388	0.00	0.00
ATOM	6277	O	GLY	X	418	26.793	38.877	29.421	0.00	0.00
ATOM	6278	N	ALA	X	419	28.018	38.126	31.120	0.00	0.00
ATOM	6279	H	ALA	X	419	28.068	37.397	31.817	0.00	0.00
ATOM	6280	CA	ALA	X	419	29.185	39.026	30.846	0.00	0.00
ATOM	6281	HA	ALA	X	419	28.838	40.035	31.067	0.00	0.00
ATOM	6282	CB	ALA	X	419	30.191	38.894	31.852	0.00	0.00
ATOM	6283	HB1	ALA	X	419	30.955	39.615	31.559	0.00	0.00
ATOM	6284	HB2	ALA	X	419	29.862	39.035	32.882	0.00	0.00
ATOM	6285	HB3	ALA	X	419	30.707	37.947	31.695	0.00	0.00
ATOM	6286	C	ALA	X	419	29.726	38.845	29.436	0.00	0.00
ATOM	6287	O	ALA	X	419	29.727	37.654	28.926	0.00	0.00
ATOM	6288	N	ARG	X	420	30.054	39.897	28.781	0.00	0.00
ATOM	6289	H	ARG	X	420	29.969	40.803	29.219	0.00	0.00
ATOM	6290	CA	ARG	X	420	30.856	39.839	27.528	0.00	0.00
ATOM	6291	HA	ARG	X	420	30.650	38.900	27.014	0.00	0.00
ATOM	6292	CB	ARG	X	420	30.564	41.100	26.668	0.00	0.00
ATOM	6293	HB2	ARG	X	420	29.497	41.079	26.447	0.00	0.00
ATOM	6294	HB3	ARG	X	420	30.706	41.978	27.298	0.00	0.00
ATOM	6295	CG	ARG	X	420	31.305	41.035	25.251	0.00	0.00
ATOM	6296	HG2	ARG	X	420	32.373	40.981	25.462	0.00	0.00
ATOM	6297	HG3	ARG	X	420	30.882	40.221	24.662	0.00	0.00
ATOM	6298	CD	ARG	X	420	31.010	42.278	24.472	0.00	0.00
ATOM	6299	HD2	ARG	X	420	29.950	42.319	24.220	0.00	0.00
ATOM	6300	HD3	ARG	X	420	31.343	43.171	25.001	0.00	0.00
ATOM	6301	NE	ARG	X	420	31.706	42.336	23.190	0.00	0.00
ATOM	6302	HE	ARG	X	420	32.554	42.882	23.133	0.00	0.00
ATOM	6303	CZ	ARG	X	420	31.118	41.940	22.093	0.00	0.00
ATOM	6304	NH1	ARG	X	420	30.176	40.955	22.153	0.00	0.00
ATOM	6305	HH11	ARG	X	420	29.765	40.622	23.014	0.00	0.00
ATOM	6306	HH12	ARG	X	420	29.720	40.644	21.307	0.00	0.00
ATOM	6307	NH2	ARG	X	420	31.680	42.324	20.924	0.00	0.00
ATOM	6308	HH21	ARG	X	420	32.302	43.119	20.895	0.00	0.00
ATOM	6309	HH22	ARG	X	420	31.269	41.893	20.108	0.00	0.00
ATOM	6310	C	ARG	X	420	32.279	39.829	28.103	0.00	0.00
ATOM	6311	O	ARG	X	420	32.752	40.859	28.596	0.00	0.00
ATOM	6312	N	VAL	X	421	32.916	38.697	28.081	0.00	0.00
ATOM	6313	H	VAL	X	421	32.599	38.039	27.384	0.00	0.00
ATOM	6314	CA	VAL	X	421	34.247	38.437	28.578	0.00	0.00
ATOM	6315	HA	VAL	X	421	34.553	39.314	29.149	0.00	0.00
ATOM	6316	CB	VAL	X	421	34.157	37.226	29.541	0.00	0.00
ATOM	6317	HB	VAL	X	421	34.044	36.340	28.916	0.00	0.00
ATOM	6318	CG1	VAL	X	421	35.493	37.131	30.269	0.00	0.00
ATOM	6319	HG11	VAL	X	421	36.248	36.751	29.582	0.00	0.00
ATOM	6320	HG12	VAL	X	421	35.823	38.124	30.575	0.00	0.00
ATOM	6321	HG13	VAL	X	421	35.380	36.423	31.090	0.00	0.00
ATOM	6322	CG2	VAL	X	421	32.969	37.339	30.471	0.00	0.00
ATOM	6323	HG21	VAL	X	421	33.012	38.393	30.745	0.00	0.00
ATOM	6324	HG22	VAL	X	421	32.064	37.128	29.901	0.00	0.00
ATOM	6325	HG23	VAL	X	421	33.000	36.554	31.226	0.00	0.00
ATOM	6326	C	VAL	X	421	35.291	38.193	27.459	0.00	0.00
ATOM	6327	O	VAL	X	421	34.975	37.552	26.436	0.00	0.00
ATOM	6328	N	TYR	X	422	36.617	38.363	27.613	0.00	0.00
ATOM	6329	H	TYR	X	422	36.938	38.737	28.494	0.00	0.00
ATOM	6330	CA	TYR	X	422	37.734	37.956	26.725	0.00	0.00
ATOM	6331	HA	TYR	X	422	37.491	37.137	26.049	0.00	0.00
ATOM	6332	CB	TYR	X	422	38.139	39.249	25.949	0.00	0.00
ATOM	6333	HB2	TYR	X	422	38.412	40.059	26.625	0.00	0.00
ATOM	6334	HB3	TYR	X	422	39.065	39.023	25.419	0.00	0.00
ATOM	6335	CG	TYR	X	422	37.206	39.756	24.887	0.00	0.00
ATOM	6336	CD1	TYR	X	422	37.199	39.258	23.556	0.00	0.00
ATOM	6337	HD1	TYR	X	422	37.829	38.433	23.255	0.00	0.00

ATOM	6338	CE1	TYR	X	422	36.308	39.849	22.677	0.00	0.00
ATOM	6339	HE1	TYR	X	422	36.299	39.618	21.622	0.00	0.00
ATOM	6340	CZ	TYR	X	422	35.251	40.710	23.110	0.00	0.00
ATOM	6341	OH	TYR	X	422	34.373	41.168	22.218	0.00	0.00
ATOM	6342	HH	TYR	X	422	34.581	40.848	21.337	0.00	0.00
ATOM	6343	CE2	TYR	X	422	35.231	41.146	24.459	0.00	0.00
ATOM	6344	HE2	TYR	X	422	34.654	41.998	24.785	0.00	0.00
ATOM	6345	CD2	TYR	X	422	36.246	40.646	25.358	0.00	0.00
ATOM	6346	HD2	TYR	X	422	36.334	40.916	26.400	0.00	0.00
ATOM	6347	C	TYR	X	422	38.871	37.407	27.561	0.00	0.00
ATOM	6348	O	TYR	X	422	39.484	38.061	28.409	0.00	0.00
ATOM	6349	N	ALA	X	423	39.355	36.173	27.209	0.00	0.00
ATOM	6350	H	ALA	X	423	39.026	35.729	26.364	0.00	0.00
ATOM	6351	CA	ALA	X	423	40.472	35.476	27.927	0.00	0.00
ATOM	6352	HA	ALA	X	423	40.643	35.997	28.869	0.00	0.00
ATOM	6353	CB	ALA	X	423	40.063	34.054	28.398	0.00	0.00
ATOM	6354	HB1	ALA	X	423	39.918	33.465	27.492	0.00	0.00
ATOM	6355	HB2	ALA	X	423	40.895	33.640	28.967	0.00	0.00
ATOM	6356	HB3	ALA	X	423	39.213	34.129	29.076	0.00	0.00
ATOM	6357	C	ALA	X	423	41.811	35.368	27.198	0.00	0.00
ATOM	6358	O	ALA	X	423	41.874	35.368	25.988	0.00	0.00
ATOM	6359	N	TYR	X	424	42.881	35.311	27.975	0.00	0.00
ATOM	6360	H	TYR	X	424	42.774	35.539	28.953	0.00	0.00
ATOM	6361	CA	TYR	X	424	44.241	35.296	27.400	0.00	0.00
ATOM	6362	HA	TYR	X	424	44.228	34.769	26.445	0.00	0.00
ATOM	6363	CB	TYR	X	424	44.738	36.707	27.124	0.00	0.00
ATOM	6364	HB2	TYR	X	424	45.567	36.704	26.416	0.00	0.00
ATOM	6365	HB3	TYR	X	424	44.071	37.237	26.444	0.00	0.00
ATOM	6366	CG	TYR	X	424	45.245	37.443	28.342	0.00	0.00
ATOM	6367	CD1	TYR	X	424	46.578	37.463	28.698	0.00	0.00
ATOM	6368	HD1	TYR	X	424	47.303	36.867	28.163	0.00	0.00
ATOM	6369	CE1	TYR	X	424	47.084	38.028	29.895	0.00	0.00
ATOM	6370	HE1	TYR	X	424	48.136	38.068	30.135	0.00	0.00
ATOM	6371	CZ	TYR	X	424	46.178	38.739	30.677	0.00	0.00
ATOM	6372	OH	TYR	X	424	46.711	39.370	31.752	0.00	0.00
ATOM	6373	HH	TYR	X	424	47.642	39.227	31.938	0.00	0.00
ATOM	6374	CE2	TYR	X	424	44.871	38.877	30.290	0.00	0.00
ATOM	6375	HE2	TYR	X	424	44.194	39.458	30.899	0.00	0.00
ATOM	6376	CD2	TYR	X	424	44.382	38.168	29.159	0.00	0.00
ATOM	6377	HD2	TYR	X	424	43.324	38.224	28.946	0.00	0.00
ATOM	6378	C	TYR	X	424	45.215	34.566	28.358	0.00	0.00
ATOM	6379	O	TYR	X	424	45.093	34.612	29.572	0.00	0.00
ATOM	6380	N	VAL	X	425	46.221	33.899	27.817	0.00	0.00
ATOM	6381	H	VAL	X	425	46.171	33.690	26.830	0.00	0.00
ATOM	6382	CA	VAL	X	425	47.476	33.654	28.515	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.328	34.041	29.523	0.00	0.00
ATOM	6384	CB	VAL	X	425	47.758	32.139	28.509	0.00	0.00
ATOM	6385	HB	VAL	X	425	47.687	31.840	27.463	0.00	0.00
ATOM	6386	CG1	VAL	X	425	49.107	31.664	29.072	0.00	0.00
ATOM	6387	HG11	VAL	X	425	49.060	31.810	30.152	0.00	0.00
ATOM	6388	HG12	VAL	X	425	49.072	30.599	28.843	0.00	0.00
ATOM	6389	HG13	VAL	X	425	49.974	32.096	28.572	0.00	0.00
ATOM	6390	CG2	VAL	X	425	46.657	31.365	29.235	0.00	0.00
ATOM	6391	HG21	VAL	X	425	45.767	31.471	28.615	0.00	0.00
ATOM	6392	HG22	VAL	X	425	46.843	30.298	29.110	0.00	0.00
ATOM	6393	HG23	VAL	X	425	46.618	31.788	30.239	0.00	0.00
ATOM	6394	C	VAL	X	425	48.660	34.450	27.872	0.00	0.00
ATOM	6395	O	VAL	X	425	48.717	34.552	26.601	0.00	0.00
ATOM	6396	N	PHE	X	426	49.627	34.995	28.672	0.00	0.00
ATOM	6397	H	PHE	X	426	49.573	34.849	29.670	0.00	0.00
ATOM	6398	CA	PHE	X	426	50.855	35.567	28.128	0.00	0.00
ATOM	6399	HA	PHE	X	426	50.717	35.776	27.068	0.00	0.00
ATOM	6400	CB	PHE	X	426	51.132	36.905	28.937	0.00	0.00
ATOM	6401	HB2	PHE	X	426	50.318	37.616	28.792	0.00	0.00
ATOM	6402	HB3	PHE	X	426	51.084	36.650	29.995	0.00	0.00
ATOM	6403	CG	PHE	X	426	52.476	37.604	28.816	0.00	0.00
ATOM	6404	CD1	PHE	X	426	52.639	38.696	27.942	0.00	0.00
ATOM	6405	HD1	PHE	X	426	51.841	38.980	27.273	0.00	0.00
ATOM	6406	CE1	PHE	X	426	53.876	39.353	27.829	0.00	0.00
ATOM	6407	HE1	PHE	X	426	54.035	40.138	27.105	0.00	0.00

ATOM	6408	CZ	PHE	X	426	54.961	38.923	28.592	0.00	0.00
ATOM	6409	HZ	PHE	X	426	55.885	39.452	28.414	0.00	0.00
ATOM	6410	CE2	PHE	X	426	54.795	37.919	29.510	0.00	0.00
ATOM	6411	HE2	PHE	X	426	55.626	37.734	30.175	0.00	0.00
ATOM	6412	CD2	PHE	X	426	53.608	37.194	29.593	0.00	0.00
ATOM	6413	HD2	PHE	X	426	53.502	36.444	30.363	0.00	0.00
ATOM	6414	C	PHE	X	426	51.975	34.503	28.237	0.00	0.00
ATOM	6415	O	PHE	X	426	52.126	33.903	29.326	0.00	0.00
ATOM	6416	N	GLU	X	427	52.684	34.243	27.123	0.00	0.00
ATOM	6417	H	GLU	X	427	52.498	34.766	26.279	0.00	0.00
ATOM	6418	CA	GLU	X	427	53.834	33.224	27.093	0.00	0.00
ATOM	6419	HA	GLU	X	427	54.027	32.840	28.094	0.00	0.00
ATOM	6420	CB	GLU	X	427	53.399	31.995	26.205	0.00	0.00
ATOM	6421	HB2	GLU	X	427	54.182	31.243	26.293	0.00	0.00
ATOM	6422	HB3	GLU	X	427	52.483	31.567	26.613	0.00	0.00
ATOM	6423	CG	GLU	X	427	53.190	32.252	24.679	0.00	0.00
ATOM	6424	HG2	GLU	X	427	52.430	32.969	24.370	0.00	0.00
ATOM	6425	HG3	GLU	X	427	54.135	32.590	24.253	0.00	0.00
ATOM	6426	CD	GLU	X	427	52.982	30.928	24.111	0.00	0.00
ATOM	6427	OE1	GLU	X	427	53.841	30.441	23.315	0.00	0.00
ATOM	6428	OE2	GLU	X	427	51.898	30.331	24.420	0.00	0.00
ATOM	6429	C	GLU	X	427	55.198	33.728	26.630	0.00	0.00
ATOM	6430	O	GLU	X	427	55.981	32.843	26.206	0.00	0.00
ATOM	6431	N	HIE	X	428	55.472	35.038	26.450	0.00	0.00
ATOM	6432	H	HIE	X	428	54.778	35.756	26.601	0.00	0.00
ATOM	6433	CA	HIE	X	428	56.828	35.462	26.085	0.00	0.00
ATOM	6434	HA	HIE	X	428	57.244	34.786	25.337	0.00	0.00
ATOM	6435	CB	HIE	X	428	56.658	36.801	25.437	0.00	0.00
ATOM	6436	HB2	HIE	X	428	56.223	36.709	24.442	0.00	0.00
ATOM	6437	HB3	HIE	X	428	56.036	37.322	26.165	0.00	0.00
ATOM	6438	CG	HIE	X	428	57.869	37.605	25.274	0.00	0.00
ATOM	6439	ND1	HIE	X	428	58.845	37.395	24.321	0.00	0.00
ATOM	6440	CE1	HIE	X	428	59.836	38.280	24.582	0.00	0.00
ATOM	6441	HE1	HIE	X	428	60.732	38.395	23.990	0.00	0.00
ATOM	6442	NE2	HIE	X	428	59.492	39.006	25.641	0.00	0.00
ATOM	6443	HE2	HIE	X	428	60.127	39.618	26.134	0.00	0.00
ATOM	6444	CD2	HIE	X	428	58.196	38.663	26.050	0.00	0.00
ATOM	6445	HD2	HIE	X	428	57.680	38.994	26.939	0.00	0.00
ATOM	6446	C	HIE	X	428	57.628	35.720	27.365	0.00	0.00
ATOM	6447	O	HIE	X	428	57.226	36.476	28.251	0.00	0.00
ATOM	6448	N	ARG	X	429	58.881	35.199	27.392	0.00	0.00
ATOM	6449	H	ARG	X	429	59.079	34.531	26.660	0.00	0.00
ATOM	6450	CA	ARG	X	429	59.813	35.525	28.475	0.00	0.00
ATOM	6451	HA	ARG	X	429	59.341	35.945	29.363	0.00	0.00
ATOM	6452	CB	ARG	X	429	60.752	34.342	28.827	0.00	0.00
ATOM	6453	HB2	ARG	X	429	60.148	33.443	28.959	0.00	0.00
ATOM	6454	HB3	ARG	X	429	61.497	34.138	28.058	0.00	0.00
ATOM	6455	CG	ARG	X	429	61.488	34.444	30.187	0.00	0.00
ATOM	6456	HG2	ARG	X	429	62.195	35.264	30.310	0.00	0.00
ATOM	6457	HG3	ARG	X	429	60.746	34.608	30.969	0.00	0.00
ATOM	6458	CD	ARG	X	429	62.150	33.070	30.556	0.00	0.00
ATOM	6459	HD2	ARG	X	429	61.500	32.279	30.183	0.00	0.00
ATOM	6460	HD3	ARG	X	429	63.115	33.014	30.053	0.00	0.00
ATOM	6461	NE	ARG	X	429	62.224	32.920	32.009	0.00	0.00
ATOM	6462	HE	ARG	X	429	61.808	32.087	32.400	0.00	0.00
ATOM	6463	CZ	ARG	X	429	62.961	33.556	32.920	0.00	0.00
ATOM	6464	NH1	ARG	X	429	63.866	34.398	32.631	0.00	0.00
ATOM	6465	HH11	ARG	X	429	64.219	34.511	31.691	0.00	0.00
ATOM	6466	HH12	ARG	X	429	64.377	34.911	33.335	0.00	0.00
ATOM	6467	NH2	ARG	X	429	62.651	33.487	34.190	0.00	0.00
ATOM	6468	HH21	ARG	X	429	61.879	32.881	34.428	0.00	0.00
ATOM	6469	HH22	ARG	X	429	63.081	34.013	34.937	0.00	0.00
ATOM	6470	C	ARG	X	429	60.762	36.667	27.930	0.00	0.00
ATOM	6471	O	ARG	X	429	61.219	36.602	26.807	0.00	0.00
ATOM	6472	N	ALA	X	430	61.008	37.676	28.752	0.00	0.00
ATOM	6473	H	ALA	X	430	60.334	37.789	29.496	0.00	0.00
ATOM	6474	CA	ALA	X	430	61.856	38.763	28.283	0.00	0.00
ATOM	6475	HA	ALA	X	430	61.576	39.196	27.323	0.00	0.00
ATOM	6476	CB	ALA	X	430	61.696	39.970	29.243	0.00	0.00
ATOM	6477	HB1	ALA	X	430	60.633	40.186	29.134	0.00	0.00

ATOM	6478	HB2	ALA	X	430	61.971	39.718	30.267	0.00	0.00
ATOM	6479	HB3	ALA	X	430	62.257	40.848	28.922	0.00	0.00
ATOM	6480	C	ALA	X	430	63.372	38.418	28.125	0.00	0.00
ATOM	6481	O	ALA	X	430	63.839	37.474	28.688	0.00	0.00
ATOM	6482	N	SER	X	431	64.084	39.232	27.285	0.00	0.00
ATOM	6483	H	SER	X	431	63.597	39.877	26.679	0.00	0.00
ATOM	6484	CA	SER	X	431	65.461	39.002	26.916	0.00	0.00
ATOM	6485	HA	SER	X	431	65.566	37.977	26.561	0.00	0.00
ATOM	6486	CB	SER	X	431	65.821	39.714	25.664	0.00	0.00
ATOM	6487	HB2	SER	X	431	66.911	39.715	25.661	0.00	0.00
ATOM	6488	HB3	SER	X	431	65.418	39.198	24.792	0.00	0.00
ATOM	6489	OG	SER	X	431	65.380	41.044	25.674	0.00	0.00
ATOM	6490	HG	SER	X	431	64.611	41.052	25.099	0.00	0.00
ATOM	6491	C	SER	X	431	66.512	39.161	28.033	0.00	0.00
ATOM	6492	O	SER	X	431	67.544	38.529	27.973	0.00	0.00
ATOM	6493	N	THR	X	432	66.150	39.875	29.091	0.00	0.00
ATOM	6494	H	THR	X	432	65.371	40.498	28.935	0.00	0.00
ATOM	6495	CA	THR	X	432	66.725	39.687	30.423	0.00	0.00
ATOM	6496	HA	THR	X	432	67.176	38.723	30.657	0.00	0.00
ATOM	6497	CB	THR	X	432	67.812	40.707	30.611	0.00	0.00
ATOM	6498	HB	THR	X	432	67.373	41.695	30.468	0.00	0.00
ATOM	6499	CG2	THR	X	432	68.608	40.794	31.941	0.00	0.00
ATOM	6500	HG21	THR	X	432	69.283	39.939	31.989	0.00	0.00
ATOM	6501	HG22	THR	X	432	69.221	41.694	31.892	0.00	0.00
ATOM	6502	HG23	THR	X	432	68.033	40.777	32.867	0.00	0.00
ATOM	6503	OG1	THR	X	432	68.761	40.588	29.615	0.00	0.00
ATOM	6504	HG1	THR	X	432	68.417	40.241	28.789	0.00	0.00
ATOM	6505	C	THR	X	432	65.688	39.919	31.559	0.00	0.00
ATOM	6506	O	THR	X	432	65.290	41.075	31.764	0.00	0.00
ATOM	6507	N	LEU	X	433	65.482	38.917	32.394	0.00	0.00
ATOM	6508	H	LEU	X	433	66.171	38.181	32.336	0.00	0.00
ATOM	6509	CA	LEU	X	433	64.317	38.896	33.307	0.00	0.00
ATOM	6510	HA	LEU	X	433	63.977	39.929	33.387	0.00	0.00
ATOM	6511	CB	LEU	X	433	63.146	38.067	32.752	0.00	0.00
ATOM	6512	HB2	LEU	X	433	62.937	38.273	31.702	0.00	0.00
ATOM	6513	HB3	LEU	X	433	63.367	37.000	32.771	0.00	0.00
ATOM	6514	CG	LEU	X	433	61.827	38.251	33.519	0.00	0.00
ATOM	6515	HG	LEU	X	433	61.767	39.336	33.609	0.00	0.00
ATOM	6516	CD1	LEU	X	433	60.678	37.627	32.746	0.00	0.00
ATOM	6517	HD11	LEU	X	433	60.653	37.962	31.709	0.00	0.00
ATOM	6518	HD12	LEU	X	433	60.812	36.546	32.715	0.00	0.00
ATOM	6519	HD13	LEU	X	433	59.751	37.800	33.292	0.00	0.00
ATOM	6520	CD2	LEU	X	433	61.794	37.540	34.910	0.00	0.00
ATOM	6521	HD21	LEU	X	433	62.199	38.153	35.716	0.00	0.00
ATOM	6522	HD22	LEU	X	433	60.798	37.230	35.227	0.00	0.00
ATOM	6523	HD23	LEU	X	433	62.463	36.680	34.895	0.00	0.00
ATOM	6524	C	LEU	X	433	64.909	38.351	34.647	0.00	0.00
ATOM	6525	O	LEU	X	433	65.465	37.281	34.642	0.00	0.00
ATOM	6526	N	SER	X	434	64.755	39.086	35.764	0.00	0.00
ATOM	6527	H	SER	X	434	64.117	39.868	35.736	0.00	0.00
ATOM	6528	CA	SER	X	434	65.658	38.957	36.943	0.00	0.00
ATOM	6529	HA	SER	X	434	66.696	39.018	36.616	0.00	0.00
ATOM	6530	CB	SER	X	434	65.326	40.190	37.885	0.00	0.00
ATOM	6531	HB2	SER	X	434	65.959	40.229	38.771	0.00	0.00
ATOM	6532	HB3	SER	X	434	65.627	41.044	37.279	0.00	0.00
ATOM	6533	OG	SER	X	434	63.946	40.251	38.153	0.00	0.00
ATOM	6534	HG	SER	X	434	63.510	41.037	37.816	0.00	0.00
ATOM	6535	C	SER	X	434	65.567	37.577	37.749	0.00	0.00
ATOM	6536	O	SER	X	434	66.457	37.072	38.423	0.00	0.00
ATOM	6537	N	TRP	X	435	64.364	36.951	37.624	0.00	0.00
ATOM	6538	H	TRP	X	435	63.611	37.440	37.160	0.00	0.00
ATOM	6539	CA	TRP	X	435	64.123	35.634	38.073	0.00	0.00
ATOM	6540	HA	TRP	X	435	64.519	35.637	39.089	0.00	0.00
ATOM	6541	CB	TRP	X	435	62.598	35.456	38.026	0.00	0.00
ATOM	6542	HB2	TRP	X	435	62.287	35.743	37.022	0.00	0.00
ATOM	6543	HB3	TRP	X	435	62.316	34.408	38.127	0.00	0.00
ATOM	6544	CG	TRP	X	435	61.811	36.295	38.973	0.00	0.00
ATOM	6545	CD1	TRP	X	435	60.867	37.221	38.676	0.00	0.00
ATOM	6546	HD1	TRP	X	435	60.644	37.507	37.659	0.00	0.00
ATOM	6547	NE1	TRP	X	435	60.158	37.567	39.828	0.00	0.00

ATOM	6548	HE1	TRP	X	435	59.286	38.077	39.842	0.00	0.00
ATOM	6549	CE2	TRP	X	435	60.763	37.043	40.943	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	60.489	37.124	42.324	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	59.675	37.757	42.645	0.00	0.00
ATOM	6552	CH2	TRP	X	435	61.308	36.427	43.244	0.00	0.00
ATOM	6553	HH2	TRP	X	435	61.196	36.353	44.316	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	62.318	35.620	42.763	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	62.894	35.072	43.494	0.00	0.00
ATOM	6556	CE3	TRP	X	435	62.572	35.469	41.396	0.00	0.00
ATOM	6557	HE3	TRP	X	435	63.216	34.696	41.004	0.00	0.00
ATOM	6558	CD2	TRP	X	435	61.796	36.219	40.414	0.00	0.00
ATOM	6559	C	TRP	X	435	64.726	34.594	37.120	0.00	0.00
ATOM	6560	O	TRP	X	435	64.481	34.726	35.917	0.00	0.00
ATOM	6561	N	PRO	X	436	65.288	33.405	37.631	0.00	0.00
ATOM	6562	CD	PRO	X	436	65.601	33.207	39.000	0.00	0.00
ATOM	6563	HD2	PRO	X	436	64.840	33.300	39.775	0.00	0.00
ATOM	6564	HD3	PRO	X	436	66.446	33.862	39.211	0.00	0.00
ATOM	6565	CG	PRO	X	436	66.078	31.752	39.076	0.00	0.00
ATOM	6566	HG2	PRO	X	436	65.212	31.093	39.028	0.00	0.00
ATOM	6567	HG3	PRO	X	436	66.750	31.458	39.882	0.00	0.00
ATOM	6568	CB	PRO	X	436	66.782	31.505	37.793	0.00	0.00
ATOM	6569	HB2	PRO	X	436	66.770	30.452	37.512	0.00	0.00
ATOM	6570	HB3	PRO	X	436	67.742	31.943	38.067	0.00	0.00
ATOM	6571	CA	PRO	X	436	66.090	32.456	36.784	0.00	0.00
ATOM	6572	HA	PRO	X	436	66.806	33.079	36.248	0.00	0.00
ATOM	6573	C	PRO	X	436	65.154	31.712	35.826	0.00	0.00
ATOM	6574	O	PRO	X	436	63.991	31.460	36.225	0.00	0.00
ATOM	6575	N	LEU	X	437	65.762	31.273	34.695	0.00	0.00
ATOM	6576	H	LEU	X	437	66.764	31.392	34.660	0.00	0.00
ATOM	6577	CA	LEU	X	437	65.011	30.672	33.602	0.00	0.00
ATOM	6578	HA	LEU	X	437	64.394	31.484	33.216	0.00	0.00
ATOM	6579	CB	LEU	X	437	65.988	30.327	32.489	0.00	0.00
ATOM	6580	HB2	LEU	X	437	66.436	31.266	32.162	0.00	0.00
ATOM	6581	HB3	LEU	X	437	66.757	29.730	32.979	0.00	0.00
ATOM	6582	CG	LEU	X	437	65.375	29.634	31.264	0.00	0.00
ATOM	6583	HG	LEU	X	437	64.808	28.760	31.584	0.00	0.00
ATOM	6584	CD1	LEU	X	437	64.419	30.627	30.523	0.00	0.00
ATOM	6585	HD11	LEU	X	437	64.969	31.553	30.358	0.00	0.00
ATOM	6586	HD12	LEU	X	437	64.176	30.224	29.539	0.00	0.00
ATOM	6587	HD13	LEU	X	437	63.500	30.845	31.067	0.00	0.00
ATOM	6588	CD2	LEU	X	437	66.458	29.258	30.226	0.00	0.00
ATOM	6589	HD21	LEU	X	437	65.979	28.801	29.360	0.00	0.00
ATOM	6590	HD22	LEU	X	437	66.946	30.100	29.734	0.00	0.00
ATOM	6591	HD23	LEU	X	437	67.220	28.601	30.644	0.00	0.00
ATOM	6592	C	LEU	X	437	64.074	29.489	34.006	0.00	0.00
ATOM	6593	O	LEU	X	437	62.859	29.509	33.639	0.00	0.00
ATOM	6594	N	TRP	X	438	64.561	28.606	34.864	0.00	0.00
ATOM	6595	H	TRP	X	438	65.530	28.619	35.147	0.00	0.00
ATOM	6596	CA	TRP	X	438	63.815	27.413	35.256	0.00	0.00
ATOM	6597	HA	TRP	X	438	63.608	26.913	34.310	0.00	0.00
ATOM	6598	CB	TRP	X	438	64.644	26.591	36.225	0.00	0.00
ATOM	6599	HB2	TRP	X	438	64.197	25.597	36.235	0.00	0.00
ATOM	6600	HB3	TRP	X	438	65.606	26.380	35.757	0.00	0.00
ATOM	6601	CG	TRP	X	438	64.838	27.055	37.674	0.00	0.00
ATOM	6602	CD1	TRP	X	438	65.942	27.663	38.190	0.00	0.00
ATOM	6603	HD1	TRP	X	438	66.811	27.857	37.578	0.00	0.00
ATOM	6604	NE1	TRP	X	438	65.785	27.994	39.536	0.00	0.00
ATOM	6605	HE1	TRP	X	438	66.547	28.357	40.089	0.00	0.00
ATOM	6606	CE2	TRP	X	438	64.485	27.670	39.930	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	63.796	27.930	41.133	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	64.232	28.568	41.888	0.00	0.00
ATOM	6609	CH2	TRP	X	438	62.542	27.277	41.342	0.00	0.00
ATOM	6610	HH2	TRP	X	438	62.001	27.597	42.220	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	61.932	26.547	40.308	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	60.933	26.141	40.374	0.00	0.00
ATOM	6613	CE3	TRP	X	438	62.623	26.453	39.036	0.00	0.00
ATOM	6614	HE3	TRP	X	438	62.115	26.017	38.189	0.00	0.00
ATOM	6615	CD2	TRP	X	438	63.900	26.977	38.827	0.00	0.00
ATOM	6616	C	TRP	X	438	62.401	27.680	35.933	0.00	0.00
ATOM	6617	O	TRP	X	438	61.555	26.767	35.760	0.00	0.00

ATOM	6618	N	MET	X	439	62.211	28.924	36.450	0.00	0.00
ATOM	6619	H	MET	X	439	62.979	29.572	36.548	0.00	0.00
ATOM	6620	CA	MET	X	439	60.849	29.293	37.020	0.00	0.00
ATOM	6621	HA	MET	X	439	60.501	28.469	37.643	0.00	0.00
ATOM	6622	CB	MET	X	439	61.077	30.554	37.881	0.00	0.00
ATOM	6623	HB2	MET	X	439	61.706	31.274	37.358	0.00	0.00
ATOM	6624	HB3	MET	X	439	60.137	31.023	38.172	0.00	0.00
ATOM	6625	CG	MET	X	439	61.752	30.235	39.182	0.00	0.00
ATOM	6626	HG2	MET	X	439	61.060	29.633	39.772	0.00	0.00
ATOM	6627	HG3	MET	X	439	62.638	29.663	38.906	0.00	0.00
ATOM	6628	SD	MET	X	439	62.213	31.515	40.259	0.00	0.00
ATOM	6629	CE	MET	X	439	60.826	32.696	40.149	0.00	0.00
ATOM	6630	HE1	MET	X	439	60.913	33.515	40.864	0.00	0.00
ATOM	6631	HE2	MET	X	439	60.771	33.171	39.170	0.00	0.00
ATOM	6632	HE3	MET	X	439	59.892	32.197	40.406	0.00	0.00
ATOM	6633	C	MET	X	439	59.797	29.555	35.928	0.00	0.00
ATOM	6634	O	MET	X	439	58.698	29.990	36.119	0.00	0.00
ATOM	6635	N	GLY	X	440	60.246	29.622	34.695	0.00	0.00
ATOM	6636	H	GLY	X	440	61.212	29.586	34.404	0.00	0.00
ATOM	6637	CA	GLY	X	440	59.402	29.973	33.596	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.782	29.535	32.679	0.00	0.00
ATOM	6639	HA3	GLY	X	440	58.431	29.581	33.694	0.00	0.00
ATOM	6640	C	GLY	X	440	59.199	31.445	33.417	0.00	0.00
ATOM	6641	O	GLY	X	440	60.099	32.253	33.646	0.00	0.00
ATOM	6642	N	VAL	X	441	58.010	31.888	32.980	0.00	0.00
ATOM	6643	H	VAL	X	441	57.330	31.160	32.817	0.00	0.00
ATOM	6644	CA	VAL	X	441	57.503	33.319	32.934	0.00	0.00
ATOM	6645	HA	VAL	X	441	58.392	33.948	32.961	0.00	0.00
ATOM	6646	CB	VAL	X	441	56.635	33.596	31.693	0.00	0.00
ATOM	6647	HB	VAL	X	441	55.657	33.114	31.711	0.00	0.00
ATOM	6648	CG1	VAL	X	441	56.487	35.160	31.614	0.00	0.00
ATOM	6649	HG11	VAL	X	441	57.436	35.564	31.262	0.00	0.00
ATOM	6650	HG12	VAL	X	441	55.736	35.537	30.920	0.00	0.00
ATOM	6651	HG13	VAL	X	441	56.249	35.571	32.595	0.00	0.00
ATOM	6652	CG2	VAL	X	441	57.282	33.167	30.406	0.00	0.00
ATOM	6653	HG21	VAL	X	441	58.288	33.584	30.438	0.00	0.00
ATOM	6654	HG22	VAL	X	441	57.404	32.092	30.275	0.00	0.00
ATOM	6655	HG23	VAL	X	441	56.740	33.516	29.527	0.00	0.00
ATOM	6656	C	VAL	X	441	56.730	33.587	34.236	0.00	0.00
ATOM	6657	O	VAL	X	441	55.583	33.196	34.339	0.00	0.00
ATOM	6658	N	PRO	X	442	57.342	34.335	35.210	0.00	0.00
ATOM	6659	CD	PRO	X	442	58.562	34.979	35.233	0.00	0.00
ATOM	6660	HD2	PRO	X	442	58.531	35.766	34.479	0.00	0.00
ATOM	6661	HD3	PRO	X	442	59.323	34.211	35.099	0.00	0.00
ATOM	6662	CG	PRO	X	442	58.750	35.704	36.581	0.00	0.00
ATOM	6663	HG2	PRO	X	442	58.241	36.665	36.514	0.00	0.00
ATOM	6664	HG3	PRO	X	442	59.799	35.810	36.859	0.00	0.00
ATOM	6665	CB	PRO	X	442	57.871	34.755	37.459	0.00	0.00
ATOM	6666	HB2	PRO	X	442	57.513	35.091	38.432	0.00	0.00
ATOM	6667	HB3	PRO	X	442	58.365	33.784	37.482	0.00	0.00
ATOM	6668	CA	PRO	X	442	56.713	34.438	36.493	0.00	0.00
ATOM	6669	HA	PRO	X	442	56.370	33.432	36.737	0.00	0.00
ATOM	6670	C	PRO	X	442	55.745	35.570	36.588	0.00	0.00
ATOM	6671	O	PRO	X	442	55.809	36.455	35.748	0.00	0.00
ATOM	6672	N	HIP	X	443	54.845	35.405	37.523	0.00	0.00
ATOM	6673	H	HIP	X	443	54.816	34.516	38.002	0.00	0.00
ATOM	6674	CA	HIP	X	443	53.628	36.165	37.777	0.00	0.00
ATOM	6675	HA	HIP	X	443	52.791	35.742	37.220	0.00	0.00
ATOM	6676	CB	HIP	X	443	53.425	35.801	39.290	0.00	0.00
ATOM	6677	HB2	HIP	X	443	53.073	34.771	39.347	0.00	0.00
ATOM	6678	HB3	HIP	X	443	54.364	35.969	39.817	0.00	0.00
ATOM	6679	CG	HIP	X	443	52.398	36.651	40.001	0.00	0.00
ATOM	6680	ND1	HIP	X	443	51.078	36.349	40.201	0.00	0.00
ATOM	6681	HD1	HIP	X	443	50.573	35.654	39.670	0.00	0.00
ATOM	6682	CE1	HIP	X	443	50.552	37.253	41.052	0.00	0.00
ATOM	6683	HE1	HIP	X	443	49.533	37.237	41.407	0.00	0.00
ATOM	6684	NE2	HIP	X	443	51.501	38.136	41.412	0.00	0.00
ATOM	6685	HE2	HIP	X	443	51.414	38.980	41.960	0.00	0.00
ATOM	6686	CD2	HIP	X	443	52.626	37.732	40.795	0.00	0.00
ATOM	6687	HD2	HIP	X	443	53.564	38.218	41.023	0.00	0.00

ATOM	6688	C	HIP	X	443	53.820	37.752	37.564	0.00	0.00
ATOM	6689	O	HIP	X	443	54.672	38.353	38.175	0.00	0.00
ATOM	6690	N	GLY	X	444	53.005	38.226	36.605	0.00	0.00
ATOM	6691	H	GLY	X	444	52.238	37.619	36.352	0.00	0.00
ATOM	6692	CA	GLY	X	444	52.664	39.633	36.249	0.00	0.00
ATOM	6693	HA2	GLY	X	444	51.687	39.826	35.755	0.00	0.00
ATOM	6694	HA3	GLY	X	444	52.578	40.249	37.120	0.00	0.00
ATOM	6695	C	GLY	X	444	53.762	40.318	35.340	0.00	0.00
ATOM	6696	O	GLY	X	444	53.474	41.402	34.767	0.00	0.00
ATOM	6697	N	TYR	X	445	54.818	39.571	34.886	0.00	0.00
ATOM	6698	H	TYR	X	445	54.955	38.636	35.243	0.00	0.00
ATOM	6699	CA	TYR	X	445	55.883	40.047	33.920	0.00	0.00
ATOM	6700	HA	TYR	X	445	56.243	41.010	34.283	0.00	0.00
ATOM	6701	CB	TYR	X	445	57.064	39.133	33.901	0.00	0.00
ATOM	6702	HB2	TYR	X	445	56.776	38.102	34.105	0.00	0.00
ATOM	6703	HB3	TYR	X	445	57.573	39.171	32.937	0.00	0.00
ATOM	6704	CG	TYR	X	445	58.026	39.381	34.997	0.00	0.00
ATOM	6705	CD1	TYR	X	445	59.262	39.988	34.653	0.00	0.00
ATOM	6706	HD1	TYR	X	445	59.562	40.155	33.629	0.00	0.00
ATOM	6707	CE1	TYR	X	445	60.076	40.532	35.602	0.00	0.00
ATOM	6708	HE1	TYR	X	445	61.021	40.981	35.336	0.00	0.00
ATOM	6709	CZ	TYR	X	445	59.704	40.412	37.004	0.00	0.00
ATOM	6710	OH	TYR	X	445	60.523	40.925	37.984	0.00	0.00
ATOM	6711	HH	TYR	X	445	61.234	41.389	37.536	0.00	0.00
ATOM	6712	CE2	TYR	X	445	58.485	39.820	37.336	0.00	0.00
ATOM	6713	HE2	TYR	X	445	58.147	39.801	38.362	0.00	0.00
ATOM	6714	CD2	TYR	X	445	57.628	39.336	36.374	0.00	0.00
ATOM	6715	HD2	TYR	X	445	56.696	38.929	36.739	0.00	0.00
ATOM	6716	C	TYR	X	445	55.310	40.395	32.474	0.00	0.00
ATOM	6717	O	TYR	X	445	56.051	40.914	31.673	0.00	0.00
ATOM	6718	N	GLU	X	446	53.974	40.219	32.266	0.00	0.00
ATOM	6719	H	GLU	X	446	53.436	39.900	33.059	0.00	0.00
ATOM	6720	CA	GLU	X	446	53.206	40.802	31.155	0.00	0.00
ATOM	6721	HA	GLU	X	446	53.773	40.449	30.293	0.00	0.00
ATOM	6722	CB	GLU	X	446	51.799	40.184	31.145	0.00	0.00
ATOM	6723	HB2	GLU	X	446	51.187	40.659	30.379	0.00	0.00
ATOM	6724	HB3	GLU	X	446	51.845	39.151	30.799	0.00	0.00
ATOM	6725	CG	GLU	X	446	51.016	40.390	32.455	0.00	0.00
ATOM	6726	HG2	GLU	X	446	51.441	39.846	33.299	0.00	0.00
ATOM	6727	HG3	GLU	X	446	51.023	41.463	32.644	0.00	0.00
ATOM	6728	CD	GLU	X	446	49.564	40.085	32.339	0.00	0.00
ATOM	6729	OE1	GLU	X	446	48.813	41.050	32.061	0.00	0.00
ATOM	6730	OE2	GLU	X	446	49.268	38.877	32.372	0.00	0.00
ATOM	6731	C	GLU	X	446	53.216	42.376	31.060	0.00	0.00
ATOM	6732	O	GLU	X	446	53.439	42.963	29.971	0.00	0.00
ATOM	6733	N	ILE	X	447	52.990	43.054	32.220	0.00	0.00
ATOM	6734	H	ILE	X	447	53.074	42.471	33.040	0.00	0.00
ATOM	6735	CA	ILE	X	447	52.572	44.472	32.351	0.00	0.00
ATOM	6736	HA	ILE	X	447	51.654	44.554	31.770	0.00	0.00
ATOM	6737	CB	ILE	X	447	52.125	44.851	33.844	0.00	0.00
ATOM	6738	HB	ILE	X	447	51.729	45.857	33.985	0.00	0.00
ATOM	6739	CG2	ILE	X	447	51.057	43.850	34.358	0.00	0.00
ATOM	6740	HG21	ILE	X	447	50.180	43.887	33.712	0.00	0.00
ATOM	6741	HG22	ILE	X	447	51.442	42.831	34.339	0.00	0.00
ATOM	6742	HG23	ILE	X	447	50.704	44.023	35.375	0.00	0.00
ATOM	6743	CG1	ILE	X	447	53.237	44.870	34.885	0.00	0.00
ATOM	6744	HG12	ILE	X	447	53.452	43.824	35.107	0.00	0.00
ATOM	6745	HG13	ILE	X	447	54.135	45.313	34.454	0.00	0.00
ATOM	6746	CD1	ILE	X	447	52.966	45.506	36.284	0.00	0.00
ATOM	6747	HD11	ILE	X	447	52.185	45.056	36.896	0.00	0.00
ATOM	6748	HD12	ILE	X	447	53.862	45.463	36.904	0.00	0.00
ATOM	6749	HD13	ILE	X	447	52.604	46.523	36.134	0.00	0.00
ATOM	6750	C	ILE	X	447	53.566	45.420	31.821	0.00	0.00
ATOM	6751	O	ILE	X	447	53.256	46.540	31.481	0.00	0.00
ATOM	6752	N	GLU	X	448	54.809	45.032	31.750	0.00	0.00
ATOM	6753	H	GLU	X	448	55.125	44.162	32.154	0.00	0.00
ATOM	6754	CA	GLU	X	448	55.814	45.873	31.025	0.00	0.00
ATOM	6755	HA	GLU	X	448	55.954	46.802	31.578	0.00	0.00
ATOM	6756	CB	GLU	X	448	57.224	45.158	30.962	0.00	0.00
ATOM	6757	HB2	GLU	X	448	57.103	44.199	30.458	0.00	0.00

ATOM	6758	HB3	GLU	X	448	57.904	45.839	30.449	0.00	0.00
ATOM	6759	CG	GLU	X	448	57.680	44.980	32.397	0.00	0.00
ATOM	6760	HG2	GLU	X	448	57.687	45.954	32.886	0.00	0.00
ATOM	6761	HG3	GLU	X	448	56.972	44.276	32.835	0.00	0.00
ATOM	6762	CD	GLU	X	448	59.122	44.452	32.512	0.00	0.00
ATOM	6763	OE1	GLU	X	448	59.340	43.194	32.340	0.00	0.00
ATOM	6764	OE2	GLU	X	448	60.057	45.252	32.852	0.00	0.00
ATOM	6765	C	GLU	X	448	55.415	46.201	29.573	0.00	0.00
ATOM	6766	O	GLU	X	448	55.486	47.374	29.114	0.00	0.00
ATOM	6767	N	PHE	X	449	54.999	45.209	28.762	0.00	0.00
ATOM	6768	H	PHE	X	449	54.984	44.269	29.131	0.00	0.00
ATOM	6769	CA	PHE	X	449	54.571	45.289	27.379	0.00	0.00
ATOM	6770	HA	PHE	X	449	55.345	45.866	26.872	0.00	0.00
ATOM	6771	CB	PHE	X	449	54.514	43.869	26.787	0.00	0.00
ATOM	6772	HB2	PHE	X	449	53.829	43.339	27.449	0.00	0.00
ATOM	6773	HB3	PHE	X	449	54.146	43.969	25.766	0.00	0.00
ATOM	6774	CG	PHE	X	449	55.868	43.238	26.664	0.00	0.00
ATOM	6775	CD1	PHE	X	449	56.539	42.684	27.748	0.00	0.00
ATOM	6776	HD1	PHE	X	449	56.235	42.730	28.783	0.00	0.00
ATOM	6777	CE1	PHE	X	449	57.752	42.111	27.608	0.00	0.00
ATOM	6778	HE1	PHE	X	449	58.134	41.694	28.527	0.00	0.00
ATOM	6779	CZ	PHE	X	449	58.505	42.198	26.392	0.00	0.00
ATOM	6780	HZ	PHE	X	449	59.529	41.861	26.338	0.00	0.00
ATOM	6781	CE2	PHE	X	449	57.915	42.924	25.323	0.00	0.00
ATOM	6782	HE2	PHE	X	449	58.449	43.156	24.413	0.00	0.00
ATOM	6783	CD2	PHE	X	449	56.559	43.287	25.390	0.00	0.00
ATOM	6784	HD2	PHE	X	449	56.105	43.818	24.566	0.00	0.00
ATOM	6785	C	PHE	X	449	53.241	46.010	27.138	0.00	0.00
ATOM	6786	O	PHE	X	449	52.920	46.482	26.020	0.00	0.00
ATOM	6787	N	ILE	X	450	52.454	46.118	28.164	0.00	0.00
ATOM	6788	H	ILE	X	450	52.932	45.830	29.006	0.00	0.00
ATOM	6789	CA	ILE	X	450	51.118	46.796	28.181	0.00	0.00
ATOM	6790	HA	ILE	X	450	50.731	46.754	27.163	0.00	0.00
ATOM	6791	CB	ILE	X	450	50.166	46.079	29.197	0.00	0.00
ATOM	6792	HB	ILE	X	450	50.592	46.156	30.198	0.00	0.00
ATOM	6793	CG2	ILE	X	450	48.807	46.803	29.232	0.00	0.00
ATOM	6794	HG21	ILE	X	450	48.373	46.551	28.264	0.00	0.00
ATOM	6795	HG22	ILE	X	450	48.208	46.477	30.082	0.00	0.00
ATOM	6796	HG23	ILE	X	450	48.871	47.885	29.350	0.00	0.00
ATOM	6797	CG1	ILE	X	450	50.088	44.546	28.876	0.00	0.00
ATOM	6798	HG12	ILE	X	450	49.535	44.441	27.942	0.00	0.00
ATOM	6799	HG13	ILE	X	450	51.057	44.083	28.690	0.00	0.00
ATOM	6800	CD1	ILE	X	450	49.449	43.559	29.900	0.00	0.00
ATOM	6801	HD11	ILE	X	450	49.393	42.548	29.498	0.00	0.00
ATOM	6802	HD12	ILE	X	450	49.985	43.667	30.843	0.00	0.00
ATOM	6803	HD13	ILE	X	450	48.465	43.976	30.115	0.00	0.00
ATOM	6804	C	ILE	X	450	51.146	48.231	28.564	0.00	0.00
ATOM	6805	O	ILE	X	450	50.513	48.994	27.870	0.00	0.00
ATOM	6806	N	PHE	X	451	51.894	48.587	29.571	0.00	0.00
ATOM	6807	H	PHE	X	451	52.349	47.904	30.160	0.00	0.00
ATOM	6808	CA	PHE	X	451	52.350	49.993	29.675	0.00	0.00
ATOM	6809	HA	PHE	X	451	51.438	50.579	29.566	0.00	0.00
ATOM	6810	CB	PHE	X	451	52.941	50.156	31.045	0.00	0.00
ATOM	6811	HB2	PHE	X	451	53.537	49.276	31.286	0.00	0.00
ATOM	6812	HB3	PHE	X	451	53.566	51.048	31.090	0.00	0.00
ATOM	6813	CG	PHE	X	451	51.887	50.463	32.087	0.00	0.00
ATOM	6814	CD1	PHE	X	451	51.122	49.378	32.599	0.00	0.00
ATOM	6815	HD1	PHE	X	451	51.311	48.379	32.233	0.00	0.00
ATOM	6816	CE1	PHE	X	451	50.075	49.662	33.483	0.00	0.00
ATOM	6817	HE1	PHE	X	451	49.511	48.841	33.899	0.00	0.00
ATOM	6818	CZ	PHE	X	451	49.736	50.974	33.854	0.00	0.00
ATOM	6819	HZ	PHE	X	451	48.948	51.110	34.580	0.00	0.00
ATOM	6820	CE2	PHE	X	451	50.514	52.006	33.299	0.00	0.00
ATOM	6821	HE2	PHE	X	451	50.400	53.043	33.577	0.00	0.00
ATOM	6822	CD2	PHE	X	451	51.546	51.793	32.427	0.00	0.00
ATOM	6823	HD2	PHE	X	451	52.191	52.574	32.054	0.00	0.00
ATOM	6824	C	PHE	X	451	53.372	50.493	28.623	0.00	0.00
ATOM	6825	O	PHE	X	451	53.620	51.701	28.465	0.00	0.00
ATOM	6826	N	GLY	X	452	54.017	49.550	27.899	0.00	0.00
ATOM	6827	H	GLY	X	452	53.982	48.568	28.134	0.00	0.00

ATOM	6828	CA	GLY	X	452	54.707	49.871	26.677	0.00	0.00
ATOM	6829	HA2	GLY	X	452	54.727	49.079	25.970	0.00	0.00
ATOM	6830	HA3	GLY	X	452	54.230	50.751	26.244	0.00	0.00
ATOM	6831	C	GLY	X	452	56.146	50.334	26.978	0.00	0.00
ATOM	6832	O	GLY	X	452	56.836	50.761	26.033	0.00	0.00
ATOM	6833	N	ILE	X	453	56.708	49.982	28.111	0.00	0.00
ATOM	6834	H	ILE	X	453	56.039	49.519	28.709	0.00	0.00
ATOM	6835	CA	ILE	X	453	58.009	50.142	28.679	0.00	0.00
ATOM	6836	HA	ILE	X	453	57.971	51.219	28.848	0.00	0.00
ATOM	6837	CB	ILE	X	453	58.069	49.456	30.055	0.00	0.00
ATOM	6838	HB	ILE	X	453	58.037	48.368	29.985	0.00	0.00
ATOM	6839	CG2	ILE	X	453	59.454	49.724	30.713	0.00	0.00
ATOM	6840	HG21	ILE	X	453	59.272	49.255	31.680	0.00	0.00
ATOM	6841	HG22	ILE	X	453	60.278	49.125	30.325	0.00	0.00
ATOM	6842	HG23	ILE	X	453	59.604	50.804	30.709	0.00	0.00
ATOM	6843	CG1	ILE	X	453	56.920	49.974	30.934	0.00	0.00
ATOM	6844	HG12	ILE	X	453	55.945	49.849	30.462	0.00	0.00
ATOM	6845	HG13	ILE	X	453	56.660	49.296	31.747	0.00	0.00
ATOM	6846	CD1	ILE	X	453	56.844	51.436	31.433	0.00	0.00
ATOM	6847	HD11	ILE	X	453	57.601	51.669	32.182	0.00	0.00
ATOM	6848	HD12	ILE	X	453	56.896	52.080	30.555	0.00	0.00
ATOM	6849	HD13	ILE	X	453	55.893	51.459	31.965	0.00	0.00
ATOM	6850	C	ILE	X	453	59.205	49.827	27.782	0.00	0.00
ATOM	6851	O	ILE	X	453	60.127	50.660	27.870	0.00	0.00
ATOM	6852	N	PRO	X	454	59.076	48.905	26.794	0.00	0.00
ATOM	6853	CD	PRO	X	454	58.174	47.810	26.549	0.00	0.00
ATOM	6854	HD2	PRO	X	454	57.357	48.154	25.915	0.00	0.00
ATOM	6855	HD3	PRO	X	454	57.754	47.458	27.491	0.00	0.00
ATOM	6856	CG	PRO	X	454	59.031	46.641	25.909	0.00	0.00
ATOM	6857	HG2	PRO	X	454	58.409	45.966	25.320	0.00	0.00
ATOM	6858	HG3	PRO	X	454	59.672	46.093	26.599	0.00	0.00
ATOM	6859	CB	PRO	X	454	60.017	47.443	24.978	0.00	0.00
ATOM	6860	HB2	PRO	X	454	59.553	47.784	24.052	0.00	0.00
ATOM	6861	HB3	PRO	X	454	60.919	46.865	24.773	0.00	0.00
ATOM	6862	CA	PRO	X	454	60.264	48.625	25.958	0.00	0.00
ATOM	6863	HA	PRO	X	454	61.086	48.360	26.622	0.00	0.00
ATOM	6864	C	PRO	X	454	60.733	49.782	25.112	0.00	0.00
ATOM	6865	O	PRO	X	454	61.881	49.800	24.657	0.00	0.00
ATOM	6866	N	LEU	X	455	59.943	50.834	24.966	0.00	0.00
ATOM	6867	H	LEU	X	455	59.067	50.957	25.455	0.00	0.00
ATOM	6868	CA	LEU	X	455	60.247	52.116	24.234	0.00	0.00
ATOM	6869	HA	LEU	X	455	60.826	51.869	23.345	0.00	0.00
ATOM	6870	CB	LEU	X	455	58.982	52.844	23.849	0.00	0.00
ATOM	6871	HB2	LEU	X	455	58.600	53.259	24.782	0.00	0.00
ATOM	6872	HB3	LEU	X	455	59.289	53.667	23.204	0.00	0.00
ATOM	6873	CG	LEU	X	455	57.872	52.004	23.184	0.00	0.00
ATOM	6874	HG	LEU	X	455	57.531	51.173	23.802	0.00	0.00
ATOM	6875	CD1	LEU	X	455	56.670	52.861	22.794	0.00	0.00
ATOM	6876	HD11	LEU	X	455	55.915	52.222	22.336	0.00	0.00
ATOM	6877	HD12	LEU	X	455	56.319	53.410	23.668	0.00	0.00
ATOM	6878	HD13	LEU	X	455	56.951	53.619	22.062	0.00	0.00
ATOM	6879	CD2	LEU	X	455	58.412	51.332	21.918	0.00	0.00
ATOM	6880	HD21	LEU	X	455	59.337	50.793	22.129	0.00	0.00
ATOM	6881	HD22	LEU	X	455	57.658	50.596	21.640	0.00	0.00
ATOM	6882	HD23	LEU	X	455	58.631	52.152	21.235	0.00	0.00
ATOM	6883	C	LEU	X	455	61.178	53.040	24.968	0.00	0.00
ATOM	6884	O	LEU	X	455	61.854	53.867	24.278	0.00	0.00
ATOM	6885	N	ASP	X	456	61.279	52.974	26.288	0.00	0.00
ATOM	6886	H	ASP	X	456	60.837	52.169	26.709	0.00	0.00
ATOM	6887	CA	ASP	X	456	62.071	53.872	27.177	0.00	0.00
ATOM	6888	HA	ASP	X	456	61.790	54.878	26.867	0.00	0.00
ATOM	6889	CB	ASP	X	456	61.630	53.629	28.577	0.00	0.00
ATOM	6890	HB2	ASP	X	456	60.556	53.816	28.576	0.00	0.00
ATOM	6891	HB3	ASP	X	456	61.780	52.613	28.943	0.00	0.00
ATOM	6892	CG	ASP	X	456	62.240	54.680	29.510	0.00	0.00
ATOM	6893	OD1	ASP	X	456	61.604	55.690	29.920	0.00	0.00
ATOM	6894	OD2	ASP	X	456	63.469	54.539	29.873	0.00	0.00
ATOM	6895	C	ASP	X	456	63.639	53.653	26.932	0.00	0.00
ATOM	6896	O	ASP	X	456	64.022	52.504	26.822	0.00	0.00
ATOM	6897	N	PRO	X	457	64.544	54.671	26.977	0.00	0.00

ATOM	6898	CD	PRO	X	457	64.167	56.124	26.948	0.00	0.00
ATOM	6899	HD2	PRO	X	457	64.252	56.490	27.971	0.00	0.00
ATOM	6900	HD3	PRO	X	457	63.159	56.313	26.576	0.00	0.00
ATOM	6901	CG	PRO	X	457	65.167	56.782	26.084	0.00	0.00
ATOM	6902	HG2	PRO	X	457	65.279	57.836	26.339	0.00	0.00
ATOM	6903	HG3	PRO	X	457	64.865	56.565	25.059	0.00	0.00
ATOM	6904	CB	PRO	X	457	66.400	55.983	26.366	0.00	0.00
ATOM	6905	HB2	PRO	X	457	66.948	56.367	27.227	0.00	0.00
ATOM	6906	HB3	PRO	X	457	67.000	55.942	25.458	0.00	0.00
ATOM	6907	CA	PRO	X	457	65.920	54.542	26.816	0.00	0.00
ATOM	6908	HA	PRO	X	457	66.037	53.926	25.925	0.00	0.00
ATOM	6909	C	PRO	X	457	66.641	54.011	28.049	0.00	0.00
ATOM	6910	O	PRO	X	457	67.828	53.733	27.927	0.00	0.00
ATOM	6911	N	SER	X	458	66.051	53.850	29.267	0.00	0.00
ATOM	6912	H	SER	X	458	65.093	54.159	29.342	0.00	0.00
ATOM	6913	CA	SER	X	458	66.600	53.088	30.441	0.00	0.00
ATOM	6914	HA	SER	X	458	67.585	53.500	30.657	0.00	0.00
ATOM	6915	CB	SER	X	458	65.729	53.444	31.628	0.00	0.00
ATOM	6916	HB2	SER	X	458	66.260	52.989	32.465	0.00	0.00
ATOM	6917	HB3	SER	X	458	65.658	54.532	31.653	0.00	0.00
ATOM	6918	OG	SER	X	458	64.416	52.922	31.542	0.00	0.00
ATOM	6919	HG	SER	X	458	64.055	53.224	30.706	0.00	0.00
ATOM	6920	C	SER	X	458	66.719	51.574	30.184	0.00	0.00
ATOM	6921	O	SER	X	458	67.633	50.961	30.791	0.00	0.00
ATOM	6922	N	ARG	X	459	65.900	51.027	29.299	0.00	0.00
ATOM	6923	H	ARG	X	459	65.402	51.653	28.683	0.00	0.00
ATOM	6924	CA	ARG	X	459	65.701	49.571	29.111	0.00	0.00
ATOM	6925	HA	ARG	X	459	66.023	49.124	30.052	0.00	0.00
ATOM	6926	CB	ARG	X	459	64.225	49.196	28.807	0.00	0.00
ATOM	6927	HB2	ARG	X	459	63.897	49.664	27.879	0.00	0.00
ATOM	6928	HB3	ARG	X	459	64.166	48.110	28.731	0.00	0.00
ATOM	6929	CG	ARG	X	459	63.217	49.576	29.891	0.00	0.00
ATOM	6930	HG2	ARG	X	459	62.839	50.594	29.806	0.00	0.00
ATOM	6931	HG3	ARG	X	459	62.312	49.014	29.661	0.00	0.00
ATOM	6932	CD	ARG	X	459	63.843	49.166	31.258	0.00	0.00
ATOM	6933	HD2	ARG	X	459	64.505	48.308	31.137	0.00	0.00
ATOM	6934	HD3	ARG	X	459	64.538	49.968	31.507	0.00	0.00
ATOM	6935	NE	ARG	X	459	62.811	49.064	32.270	0.00	0.00
ATOM	6936	HE	ARG	X	459	62.669	49.856	32.881	0.00	0.00
ATOM	6937	CZ	ARG	X	459	62.010	47.994	32.496	0.00	0.00
ATOM	6938	NH1	ARG	X	459	62.123	46.897	31.822	0.00	0.00
ATOM	6939	HH11	ARG	X	459	62.961	46.811	31.265	0.00	0.00
ATOM	6940	HH12	ARG	X	459	61.578	46.117	32.162	0.00	0.00
ATOM	6941	NH2	ARG	X	459	61.035	48.034	33.396	0.00	0.00
ATOM	6942	HH21	ARG	X	459	60.672	48.907	33.750	0.00	0.00
ATOM	6943	HH22	ARG	X	459	60.418	47.239	33.305	0.00	0.00
ATOM	6944	C	ARG	X	459	66.504	48.997	27.936	0.00	0.00
ATOM	6945	O	ARG	X	459	66.749	49.623	26.903	0.00	0.00
ATOM	6946	N	ASN	X	460	67.001	47.785	28.094	0.00	0.00
ATOM	6947	H	ASN	X	460	66.816	47.496	29.043	0.00	0.00
ATOM	6948	CA	ASN	X	460	67.449	46.759	27.166	0.00	0.00
ATOM	6949	HA	ASN	X	460	67.656	47.200	26.191	0.00	0.00
ATOM	6950	CB	ASN	X	460	68.735	46.104	27.758	0.00	0.00
ATOM	6951	HB2	ASN	X	460	69.465	46.817	28.140	0.00	0.00
ATOM	6952	HB3	ASN	X	460	68.421	45.653	28.700	0.00	0.00
ATOM	6953	CG	ASN	X	460	69.429	45.047	26.846	0.00	0.00
ATOM	6954	OD1	ASN	X	460	68.978	44.505	25.825	0.00	0.00
ATOM	6955	ND2	ASN	X	460	70.529	44.545	27.364	0.00	0.00
ATOM	6956	HD21	ASN	X	460	70.876	43.712	26.909	0.00	0.00
ATOM	6957	HD22	ASN	X	460	70.927	44.819	28.251	0.00	0.00
ATOM	6958	C	ASN	X	460	66.277	45.714	26.861	0.00	0.00
ATOM	6959	O	ASN	X	460	65.672	45.136	27.797	0.00	0.00
ATOM	6960	N	TYR	X	461	66.079	45.440	25.589	0.00	0.00
ATOM	6961	H	TYR	X	461	66.741	45.893	24.975	0.00	0.00
ATOM	6962	CA	TYR	X	461	64.907	44.770	24.915	0.00	0.00
ATOM	6963	HA	TYR	X	461	64.686	43.803	25.368	0.00	0.00
ATOM	6964	CB	TYR	X	461	63.579	45.550	25.122	0.00	0.00
ATOM	6965	HB2	TYR	X	461	63.689	46.625	24.975	0.00	0.00
ATOM	6966	HB3	TYR	X	461	62.948	45.175	24.317	0.00	0.00
ATOM	6967	CG	TYR	X	461	62.844	45.260	26.402	0.00	0.00

ATOM	6968	CD1	TYR	X	461	62.552	46.272	27.305	0.00	0.00
ATOM	6969	HD1	TYR	X	461	62.926	47.245	27.022	0.00	0.00
ATOM	6970	CE1	TYR	X	461	61.890	46.063	28.525	0.00	0.00
ATOM	6971	HE1	TYR	X	461	61.668	46.914	29.153	0.00	0.00
ATOM	6972	CZ	TYR	X	461	61.482	44.751	28.870	0.00	0.00
ATOM	6973	OH	TYR	X	461	60.607	44.507	29.936	0.00	0.00
ATOM	6974	HH	TYR	X	461	60.309	43.632	30.196	0.00	0.00
ATOM	6975	CE2	TYR	X	461	61.625	43.741	27.903	0.00	0.00
ATOM	6976	HE2	TYR	X	461	61.258	42.755	28.148	0.00	0.00
ATOM	6977	CD2	TYR	X	461	62.282	43.961	26.694	0.00	0.00
ATOM	6978	HD2	TYR	X	461	62.530	43.125	26.057	0.00	0.00
ATOM	6979	C	TYR	X	461	65.164	44.631	23.347	0.00	0.00
ATOM	6980	O	TYR	X	461	65.827	45.517	22.813	0.00	0.00
ATOM	6981	N	THR	X	462	64.757	43.552	22.692	0.00	0.00
ATOM	6982	H	THR	X	462	64.232	42.846	23.187	0.00	0.00
ATOM	6983	CA	THR	X	462	64.984	43.346	21.229	0.00	0.00
ATOM	6984	HA	THR	X	462	65.989	43.621	20.909	0.00	0.00
ATOM	6985	CB	THR	X	462	64.785	41.881	20.861	0.00	0.00
ATOM	6986	HB	THR	X	462	64.804	41.801	19.774	0.00	0.00
ATOM	6987	CG2	THR	X	462	65.895	40.916	21.362	0.00	0.00
ATOM	6988	HG21	THR	X	462	66.009	40.905	22.446	0.00	0.00
ATOM	6989	HG22	THR	X	462	65.554	39.941	21.014	0.00	0.00
ATOM	6990	HG23	THR	X	462	66.872	41.097	20.914	0.00	0.00
ATOM	6991	OG1	THR	X	462	63.537	41.444	21.283	0.00	0.00
ATOM	6992	HG1	THR	X	462	63.515	41.451	22.243	0.00	0.00
ATOM	6993	C	THR	X	462	64.069	44.220	20.447	0.00	0.00
ATOM	6994	O	THR	X	462	63.028	44.638	20.983	0.00	0.00
ATOM	6995	N	ALA	X	463	64.400	44.426	19.229	0.00	0.00
ATOM	6996	H	ALA	X	463	65.355	44.258	18.948	0.00	0.00
ATOM	6997	CA	ALA	X	463	63.488	45.092	18.248	0.00	0.00
ATOM	6998	HA	ALA	X	463	63.381	46.127	18.572	0.00	0.00
ATOM	6999	CB	ALA	X	463	64.113	45.038	16.858	0.00	0.00
ATOM	7000	HB1	ALA	X	463	65.124	45.444	16.836	0.00	0.00
ATOM	7001	HB2	ALA	X	463	64.169	44.036	16.433	0.00	0.00
ATOM	7002	HB3	ALA	X	463	63.702	45.716	16.110	0.00	0.00
ATOM	7003	C	ALA	X	463	62.112	44.425	18.204	0.00	0.00
ATOM	7004	O	ALA	X	463	61.066	45.112	18.001	0.00	0.00
ATOM	7005	N	GLU	X	464	62.016	43.099	18.419	0.00	0.00
ATOM	7006	H	GLU	X	464	62.896	42.635	18.246	0.00	0.00
ATOM	7007	CA	GLU	X	464	60.693	42.425	18.367	0.00	0.00
ATOM	7008	HA	GLU	X	464	60.015	42.921	17.671	0.00	0.00
ATOM	7009	CB	GLU	X	464	60.683	40.976	17.877	0.00	0.00
ATOM	7010	HB2	GLU	X	464	59.680	40.548	17.883	0.00	0.00
ATOM	7011	HB3	GLU	X	464	60.841	41.155	16.814	0.00	0.00
ATOM	7012	CG	GLU	X	464	61.772	40.082	18.515	0.00	0.00
ATOM	7013	HG2	GLU	X	464	62.022	40.435	19.515	0.00	0.00
ATOM	7014	HG3	GLU	X	464	61.369	39.072	18.596	0.00	0.00
ATOM	7015	CD	GLU	X	464	63.015	39.935	17.564	0.00	0.00
ATOM	7016	OE1	GLU	X	464	64.000	40.690	17.804	0.00	0.00
ATOM	7017	OE2	GLU	X	464	62.956	39.189	16.564	0.00	0.00
ATOM	7018	C	GLU	X	464	59.876	42.583	19.720	0.00	0.00
ATOM	7019	O	GLU	X	464	58.619	42.743	19.685	0.00	0.00
ATOM	7020	N	GLU	X	465	60.565	42.835	20.853	0.00	0.00
ATOM	7021	H	GLU	X	465	61.566	42.714	20.900	0.00	0.00
ATOM	7022	CA	GLU	X	465	59.902	43.038	22.135	0.00	0.00
ATOM	7023	HA	GLU	X	465	59.169	42.245	22.276	0.00	0.00
ATOM	7024	CB	GLU	X	465	60.970	42.886	23.186	0.00	0.00
ATOM	7025	HB2	GLU	X	465	61.888	43.217	22.700	0.00	0.00
ATOM	7026	HB3	GLU	X	465	60.776	43.497	24.068	0.00	0.00
ATOM	7027	CG	GLU	X	465	61.057	41.421	23.683	0.00	0.00
ATOM	7028	HG2	GLU	X	465	60.139	41.339	24.265	0.00	0.00
ATOM	7029	HG3	GLU	X	465	61.010	40.668	22.896	0.00	0.00
ATOM	7030	CD	GLU	X	465	62.377	41.136	24.469	0.00	0.00
ATOM	7031	OE1	GLU	X	465	63.460	41.425	23.924	0.00	0.00
ATOM	7032	OE2	GLU	X	465	62.285	40.748	25.645	0.00	0.00
ATOM	7033	C	GLU	X	465	59.246	44.497	22.108	0.00	0.00
ATOM	7034	O	GLU	X	465	58.232	44.735	22.775	0.00	0.00
ATOM	7035	N	LYS	X	466	59.761	45.359	21.275	0.00	0.00
ATOM	7036	H	LYS	X	466	60.709	45.083	21.064	0.00	0.00
ATOM	7037	CA	LYS	X	466	59.187	46.727	20.951	0.00	0.00

ATOM	7038	HA	LYS	X	466	58.865	47.321	21.806	0.00	0.00
ATOM	7039	CB	LYS	X	466	60.273	47.498	20.304	0.00	0.00
ATOM	7040	HB2	LYS	X	466	60.756	46.822	19.598	0.00	0.00
ATOM	7041	HB3	LYS	X	466	59.857	48.357	19.778	0.00	0.00
ATOM	7042	CG	LYS	X	466	61.358	47.884	21.370	0.00	0.00
ATOM	7043	HG2	LYS	X	466	60.923	48.651	22.010	0.00	0.00
ATOM	7044	HG3	LYS	X	466	61.628	47.070	22.043	0.00	0.00
ATOM	7045	CD	LYS	X	466	62.609	48.368	20.631	0.00	0.00
ATOM	7046	HD2	LYS	X	466	63.233	47.575	20.220	0.00	0.00
ATOM	7047	HD3	LYS	X	466	62.416	49.171	19.920	0.00	0.00
ATOM	7048	CE	LYS	X	466	63.364	49.005	21.767	0.00	0.00
ATOM	7049	HE2	LYS	X	466	62.749	49.825	22.139	0.00	0.00
ATOM	7050	HE3	LYS	X	466	63.582	48.313	22.580	0.00	0.00
ATOM	7051	NZ	LYS	X	466	64.708	49.470	21.370	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	64.758	50.232	20.709	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	65.086	49.730	22.270	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	65.375	48.794	21.027	0.00	0.00
ATOM	7055	C	LYS	X	466	57.910	46.624	20.120	0.00	0.00
ATOM	7056	O	LYS	X	466	56.833	47.238	20.404	0.00	0.00
ATOM	7057	N	ILE	X	467	58.020	45.942	18.961	0.00	0.00
ATOM	7058	H	ILE	X	467	58.930	45.590	18.698	0.00	0.00
ATOM	7059	CA	ILE	X	467	56.848	45.556	18.092	0.00	0.00
ATOM	7060	HA	ILE	X	467	56.513	46.491	17.644	0.00	0.00
ATOM	7061	CB	ILE	X	467	57.260	44.725	16.884	0.00	0.00
ATOM	7062	HB	ILE	X	467	57.833	43.869	17.240	0.00	0.00
ATOM	7063	CG2	ILE	X	467	56.048	44.202	16.063	0.00	0.00
ATOM	7064	HG21	ILE	X	467	55.474	45.097	15.822	0.00	0.00
ATOM	7065	HG22	ILE	X	467	56.306	43.556	15.224	0.00	0.00
ATOM	7066	HG23	ILE	X	467	55.513	43.603	16.800	0.00	0.00
ATOM	7067	CG1	ILE	X	467	58.219	45.585	16.104	0.00	0.00
ATOM	7068	HG12	ILE	X	467	57.654	46.362	15.590	0.00	0.00
ATOM	7069	HG13	ILE	X	467	58.794	46.234	16.765	0.00	0.00
ATOM	7070	CD1	ILE	X	467	59.104	44.818	15.187	0.00	0.00
ATOM	7071	HD11	ILE	X	467	58.525	44.037	14.694	0.00	0.00
ATOM	7072	HD12	ILE	X	467	59.560	45.532	14.502	0.00	0.00
ATOM	7073	HD13	ILE	X	467	59.902	44.232	15.643	0.00	0.00
ATOM	7074	C	ILE	X	467	55.678	44.959	18.979	0.00	0.00
ATOM	7075	O	ILE	X	467	54.484	45.317	18.878	0.00	0.00
ATOM	7076	N	PHE	X	468	56.001	43.972	19.847	0.00	0.00
ATOM	7077	H	PHE	X	468	56.950	43.631	19.909	0.00	0.00
ATOM	7078	CA	PHE	X	468	55.099	43.226	20.731	0.00	0.00
ATOM	7079	HA	PHE	X	468	54.372	42.744	20.077	0.00	0.00
ATOM	7080	CB	PHE	X	468	55.874	42.116	21.330	0.00	0.00
ATOM	7081	HB2	PHE	X	468	56.117	41.365	20.579	0.00	0.00
ATOM	7082	HB3	PHE	X	468	56.861	42.437	21.665	0.00	0.00
ATOM	7083	CG	PHE	X	468	55.184	41.328	22.389	0.00	0.00
ATOM	7084	CD1	PHE	X	468	53.860	40.891	22.193	0.00	0.00
ATOM	7085	HD1	PHE	X	468	53.249	41.295	21.400	0.00	0.00
ATOM	7086	CE1	PHE	X	468	53.223	40.073	23.181	0.00	0.00
ATOM	7087	HE1	PHE	X	468	52.239	39.725	22.903	0.00	0.00
ATOM	7088	CZ	PHE	X	468	53.956	39.500	24.237	0.00	0.00
ATOM	7089	HZ	PHE	X	468	53.543	38.752	24.898	0.00	0.00
ATOM	7090	CE2	PHE	X	468	55.301	39.903	24.442	0.00	0.00
ATOM	7091	HE2	PHE	X	468	55.753	39.448	25.311	0.00	0.00
ATOM	7092	CD2	PHE	X	468	55.854	40.808	23.518	0.00	0.00
ATOM	7093	HD2	PHE	X	468	56.912	41.028	23.501	0.00	0.00
ATOM	7094	C	PHE	X	468	54.448	44.138	21.824	0.00	0.00
ATOM	7095	O	PHE	X	468	53.244	43.972	21.941	0.00	0.00
ATOM	7096	N	ALA	X	469	55.302	45.054	22.337	0.00	0.00
ATOM	7097	H	ALA	X	469	56.263	45.194	22.058	0.00	0.00
ATOM	7098	CA	ALA	X	469	54.704	46.094	23.254	0.00	0.00
ATOM	7099	HA	ALA	X	469	54.268	45.644	24.146	0.00	0.00
ATOM	7100	CB	ALA	X	469	55.764	47.023	23.782	0.00	0.00
ATOM	7101	HB1	ALA	X	469	56.568	46.492	24.292	0.00	0.00
ATOM	7102	HB2	ALA	X	469	56.278	47.478	22.936	0.00	0.00
ATOM	7103	HB3	ALA	X	469	55.412	47.732	24.531	0.00	0.00
ATOM	7104	C	ALA	X	469	53.619	46.852	22.499	0.00	0.00
ATOM	7105	O	ALA	X	469	52.509	47.014	23.031	0.00	0.00
ATOM	7106	N	GLN	X	470	53.896	47.248	21.300	0.00	0.00
ATOM	7107	H	GLN	X	470	54.768	46.941	20.892	0.00	0.00

ATOM	7108	CA	GLN	X	470	53.033	48.116	20.463	0.00	0.00
ATOM	7109	HA	GLN	X	470	52.639	48.857	21.158	0.00	0.00
ATOM	7110	CB	GLN	X	470	53.854	48.684	19.327	0.00	0.00
ATOM	7111	HB2	GLN	X	470	54.345	47.892	18.763	0.00	0.00
ATOM	7112	HB3	GLN	X	470	53.141	49.150	18.647	0.00	0.00
ATOM	7113	CG	GLN	X	470	54.851	49.847	19.687	0.00	0.00
ATOM	7114	HG2	GLN	X	470	54.351	50.708	20.131	0.00	0.00
ATOM	7115	HG3	GLN	X	470	55.532	49.502	20.465	0.00	0.00
ATOM	7116	CD	GLN	X	470	55.666	50.363	18.529	0.00	0.00
ATOM	7117	OE1	GLN	X	470	56.863	50.722	18.584	0.00	0.00
ATOM	7118	NE2	GLN	X	470	55.154	50.483	17.362	0.00	0.00
ATOM	7119	HE21	GLN	X	470	55.695	51.114	16.788	0.00	0.00
ATOM	7120	HE22	GLN	X	470	54.175	50.311	17.181	0.00	0.00
ATOM	7121	C	GLN	X	470	51.811	47.264	20.014	0.00	0.00
ATOM	7122	O	GLN	X	470	50.702	47.869	19.976	0.00	0.00
ATOM	7123	N	ARG	X	471	51.875	45.945	20.048	0.00	0.00
ATOM	7124	H	ARG	X	471	52.772	45.495	20.161	0.00	0.00
ATOM	7125	CA	ARG	X	471	50.732	45.115	19.868	0.00	0.00
ATOM	7126	HA	ARG	X	471	50.141	45.559	19.066	0.00	0.00
ATOM	7127	CB	ARG	X	471	51.004	43.680	19.309	0.00	0.00
ATOM	7128	HB2	ARG	X	471	51.864	43.307	19.865	0.00	0.00
ATOM	7129	HB3	ARG	X	471	50.163	43.087	19.669	0.00	0.00
ATOM	7130	CG	ARG	X	471	51.158	43.685	17.792	0.00	0.00
ATOM	7131	HG2	ARG	X	471	50.226	43.901	17.269	0.00	0.00
ATOM	7132	HG3	ARG	X	471	51.902	44.457	17.595	0.00	0.00
ATOM	7133	CD	ARG	X	471	51.586	42.382	17.226	0.00	0.00
ATOM	7134	HD2	ARG	X	471	51.547	42.436	16.138	0.00	0.00
ATOM	7135	HD3	ARG	X	471	52.613	42.173	17.525	0.00	0.00
ATOM	7136	NE	ARG	X	471	50.653	41.293	17.698	0.00	0.00
ATOM	7137	HE	ARG	X	471	49.692	41.410	17.410	0.00	0.00
ATOM	7138	CZ	ARG	X	471	50.965	40.235	18.415	0.00	0.00
ATOM	7139	NH1	ARG	X	471	52.181	39.902	18.684	0.00	0.00
ATOM	7140	HH11	ARG	X	471	52.998	40.243	18.199	0.00	0.00
ATOM	7141	HH12	ARG	X	471	52.385	39.037	19.163	0.00	0.00
ATOM	7142	NH2	ARG	X	471	49.853	39.589	18.862	0.00	0.00
ATOM	7143	HH21	ARG	X	471	48.923	39.888	18.607	0.00	0.00
ATOM	7144	HH22	ARG	X	471	49.878	38.811	19.506	0.00	0.00
ATOM	7145	C	ARG	X	471	49.886	45.040	21.180	0.00	0.00
ATOM	7146	O	ARG	X	471	48.673	45.038	21.231	0.00	0.00
ATOM	7147	N	LEU	X	472	50.492	44.940	22.394	0.00	0.00
ATOM	7148	H	LEU	X	472	51.495	45.059	22.420	0.00	0.00
ATOM	7149	CA	LEU	X	472	49.863	44.755	23.691	0.00	0.00
ATOM	7150	HA	LEU	X	472	49.094	44.010	23.487	0.00	0.00
ATOM	7151	CB	LEU	X	472	50.777	44.159	24.710	0.00	0.00
ATOM	7152	HB2	LEU	X	472	51.642	44.806	24.856	0.00	0.00
ATOM	7153	HB3	LEU	X	472	50.195	44.046	25.625	0.00	0.00
ATOM	7154	CG	LEU	X	472	51.261	42.697	24.390	0.00	0.00
ATOM	7155	HG	LEU	X	472	51.898	42.578	23.514	0.00	0.00
ATOM	7156	CD1	LEU	X	472	51.930	42.099	25.658	0.00	0.00
ATOM	7157	HD11	LEU	X	472	52.987	41.911	25.473	0.00	0.00
ATOM	7158	HD12	LEU	X	472	51.621	42.736	26.486	0.00	0.00
ATOM	7159	HD13	LEU	X	472	51.538	41.089	25.784	0.00	0.00
ATOM	7160	CD2	LEU	X	472	49.940	41.981	24.021	0.00	0.00
ATOM	7161	HD21	LEU	X	472	49.117	42.074	24.730	0.00	0.00
ATOM	7162	HD22	LEU	X	472	49.685	41.996	22.961	0.00	0.00
ATOM	7163	HD23	LEU	X	472	50.230	40.931	24.068	0.00	0.00
ATOM	7164	C	LEU	X	472	49.217	46.068	24.068	0.00	0.00
ATOM	7165	O	LEU	X	472	48.105	45.982	24.528	0.00	0.00
ATOM	7166	N	MET	X	473	49.937	47.181	23.929	0.00	0.00
ATOM	7167	H	MET	X	473	50.911	46.939	23.818	0.00	0.00
ATOM	7168	CA	MET	X	473	49.392	48.546	24.145	0.00	0.00
ATOM	7169	HA	MET	X	473	49.192	48.590	25.216	0.00	0.00
ATOM	7170	CB	MET	X	473	50.386	49.619	23.624	0.00	0.00
ATOM	7171	HB2	MET	X	473	50.772	49.363	22.637	0.00	0.00
ATOM	7172	HB3	MET	X	473	49.873	50.580	23.580	0.00	0.00
ATOM	7173	CG	MET	X	473	51.497	49.877	24.584	0.00	0.00
ATOM	7174	HG2	MET	X	473	51.128	49.797	25.606	0.00	0.00
ATOM	7175	HG3	MET	X	473	52.270	49.112	24.518	0.00	0.00
ATOM	7176	SD	MET	X	473	52.204	51.447	24.302	0.00	0.00
ATOM	7177	CE	MET	X	473	53.157	51.281	22.832	0.00	0.00

ATOM	7178	HE1	MET	X	473	53.415	52.255	22.415	0.00	0.00
ATOM	7179	HE2	MET	X	473	54.126	50.841	23.069	0.00	0.00
ATOM	7180	HE3	MET	X	473	52.651	50.747	22.028	0.00	0.00
ATOM	7181	C	MET	X	473	48.146	48.613	23.330	0.00	0.00
ATOM	7182	O	MET	X	473	47.066	48.887	23.906	0.00	0.00
ATOM	7183	N	ARG	X	474	48.175	48.329	21.998	0.00	0.00
ATOM	7184	H	ARG	X	474	49.080	48.132	21.596	0.00	0.00
ATOM	7185	CA	ARG	X	474	46.957	48.351	21.188	0.00	0.00
ATOM	7186	HA	ARG	X	474	46.671	49.401	21.249	0.00	0.00
ATOM	7187	CB	ARG	X	474	47.322	47.925	19.745	0.00	0.00
ATOM	7188	HB2	ARG	X	474	48.195	48.478	19.399	0.00	0.00
ATOM	7189	HB3	ARG	X	474	47.553	46.862	19.675	0.00	0.00
ATOM	7190	CG	ARG	X	474	46.215	48.140	18.670	0.00	0.00
ATOM	7191	HG2	ARG	X	474	46.669	47.904	17.708	0.00	0.00
ATOM	7192	HG3	ARG	X	474	45.447	47.381	18.824	0.00	0.00
ATOM	7193	CD	ARG	X	474	45.735	49.624	18.596	0.00	0.00
ATOM	7194	HD2	ARG	X	474	45.369	49.775	19.612	0.00	0.00
ATOM	7195	HD3	ARG	X	474	46.620	50.257	18.535	0.00	0.00
ATOM	7196	NE	ARG	X	474	44.580	49.879	17.725	0.00	0.00
ATOM	7197	HE	ARG	X	474	43.898	49.176	17.480	0.00	0.00
ATOM	7198	CZ	ARG	X	474	44.137	51.026	17.297	0.00	0.00
ATOM	7199	NH1	ARG	X	474	44.760	52.151	17.606	0.00	0.00
ATOM	7200	HH11	ARG	X	474	45.539	52.012	18.233	0.00	0.00
ATOM	7201	HH12	ARG	X	474	44.521	53.096	17.342	0.00	0.00
ATOM	7202	NH2	ARG	X	474	43.096	51.080	16.462	0.00	0.00
ATOM	7203	HH21	ARG	X	474	42.560	50.353	16.009	0.00	0.00
ATOM	7204	HH22	ARG	X	474	42.748	51.931	16.044	0.00	0.00
ATOM	7205	C	ARG	X	474	45.784	47.550	21.752	0.00	0.00
ATOM	7206	O	ARG	X	474	44.669	48.128	21.708	0.00	0.00
ATOM	7207	N	TYR	X	475	45.915	46.329	22.271	0.00	0.00
ATOM	7208	H	TYR	X	475	46.856	45.976	22.365	0.00	0.00
ATOM	7209	CA	TYR	X	475	44.858	45.504	22.828	0.00	0.00
ATOM	7210	HA	TYR	X	475	44.086	45.504	22.059	0.00	0.00
ATOM	7211	CB	TYR	X	475	45.264	44.078	22.964	0.00	0.00
ATOM	7212	HB2	TYR	X	475	45.943	44.185	23.811	0.00	0.00
ATOM	7213	HB3	TYR	X	475	44.418	43.439	23.219	0.00	0.00
ATOM	7214	CG	TYR	X	475	45.965	43.408	21.785	0.00	0.00
ATOM	7215	CD1	TYR	X	475	45.479	43.626	20.463	0.00	0.00
ATOM	7216	HD1	TYR	X	475	44.578	44.165	20.210	0.00	0.00
ATOM	7217	CE1	TYR	X	475	46.108	43.030	19.338	0.00	0.00
ATOM	7218	HE1	TYR	X	475	45.714	43.242	18.355	0.00	0.00
ATOM	7219	CZ	TYR	X	475	47.132	42.127	19.535	0.00	0.00
ATOM	7220	OH	TYR	X	475	47.714	41.581	18.382	0.00	0.00
ATOM	7221	HH	TYR	X	475	47.237	41.871	17.601	0.00	0.00
ATOM	7222	CE2	TYR	X	475	47.673	41.930	20.820	0.00	0.00
ATOM	7223	HE2	TYR	X	475	48.563	41.323	20.885	0.00	0.00
ATOM	7224	CD2	TYR	X	475	47.106	42.568	21.891	0.00	0.00
ATOM	7225	HD2	TYR	X	475	47.568	42.441	22.858	0.00	0.00
ATOM	7226	C	TYR	X	475	44.230	46.052	24.087	0.00	0.00
ATOM	7227	O	TYR	X	475	43.043	46.174	24.156	0.00	0.00
ATOM	7228	N	TRP	X	476	44.975	46.547	25.107	0.00	0.00
ATOM	7229	H	TRP	X	476	45.979	46.511	25.012	0.00	0.00
ATOM	7230	CA	TRP	X	476	44.419	47.195	26.306	0.00	0.00
ATOM	7231	HA	TRP	X	476	43.710	46.547	26.823	0.00	0.00
ATOM	7232	CB	TRP	X	476	45.537	47.319	27.404	0.00	0.00
ATOM	7233	HB2	TRP	X	476	46.495	47.414	26.893	0.00	0.00
ATOM	7234	HB3	TRP	X	476	45.388	48.251	27.950	0.00	0.00
ATOM	7235	CG	TRP	X	476	45.512	46.201	28.412	0.00	0.00
ATOM	7236	CD1	TRP	X	476	45.289	46.399	29.773	0.00	0.00
ATOM	7237	HD1	TRP	X	476	44.995	47.323	30.250	0.00	0.00
ATOM	7238	NE1	TRP	X	476	45.483	45.157	30.380	0.00	0.00
ATOM	7239	HE1	TRP	X	476	45.607	45.027	31.374	0.00	0.00
ATOM	7240	CE2	TRP	X	476	45.609	44.152	29.479	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	45.749	42.775	29.590	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	45.657	42.261	30.535	0.00	0.00
ATOM	7243	CH2	TRP	X	476	46.122	41.977	28.439	0.00	0.00
ATOM	7244	HH2	TRP	X	476	46.292	40.922	28.590	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	46.408	42.639	27.242	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	46.686	42.094	26.352	0.00	0.00
ATOM	7247	CE3	TRP	X	476	46.163	44.022	27.054	0.00	0.00

ATOM	7248	HE3	TRP	X	476	46.182	44.523	26.097	0.00	0.00
ATOM	7249	CD2	TRP	X	476	45.829	44.782	28.179	0.00	0.00
ATOM	7250	C	TRP	X	476	43.594	48.433	25.915	0.00	0.00
ATOM	7251	O	TRP	X	476	42.434	48.657	26.289	0.00	0.00
ATOM	7252	N	ALA	X	477	44.184	49.289	25.052	0.00	0.00
ATOM	7253	H	ALA	X	477	45.189	49.335	24.969	0.00	0.00
ATOM	7254	CA	ALA	X	477	43.510	50.522	24.565	0.00	0.00
ATOM	7255	HA	ALA	X	477	43.211	51.127	25.421	0.00	0.00
ATOM	7256	CB	ALA	X	477	44.529	51.311	23.688	0.00	0.00
ATOM	7257	HB1	ALA	X	477	44.871	50.747	22.821	0.00	0.00
ATOM	7258	HB2	ALA	X	477	44.033	52.222	23.353	0.00	0.00
ATOM	7259	HB3	ALA	X	477	45.412	51.565	24.275	0.00	0.00
ATOM	7260	C	ALA	X	477	42.266	50.278	23.752	0.00	0.00
ATOM	7261	O	ALA	X	477	41.272	50.880	24.037	0.00	0.00
ATOM	7262	N	ASN	X	478	42.283	49.381	22.737	0.00	0.00
ATOM	7263	H	ASN	X	478	43.159	48.949	22.478	0.00	0.00
ATOM	7264	CA	ASN	X	478	41.067	48.908	22.063	0.00	0.00
ATOM	7265	HA	ASN	X	478	40.564	49.706	21.517	0.00	0.00
ATOM	7266	CB	ASN	X	478	41.397	47.691	21.106	0.00	0.00
ATOM	7267	HB2	ASN	X	478	42.197	47.042	21.463	0.00	0.00
ATOM	7268	HB3	ASN	X	478	40.471	47.142	20.935	0.00	0.00
ATOM	7269	CG	ASN	X	478	41.815	48.134	19.693	0.00	0.00
ATOM	7270	OD1	ASN	X	478	41.863	49.338	19.369	0.00	0.00
ATOM	7271	ND2	ASN	X	478	42.153	47.187	18.868	0.00	0.00
ATOM	7272	HD21	ASN	X	478	42.578	47.425	17.984	0.00	0.00
ATOM	7273	HD22	ASN	X	478	42.322	46.238	19.169	0.00	0.00
ATOM	7274	C	ASN	X	478	39.950	48.426	23.029	0.00	0.00
ATOM	7275	O	ASN	X	478	38.785	48.836	22.928	0.00	0.00
ATOM	7276	N	PHE	X	479	40.367	47.664	24.088	0.00	0.00
ATOM	7277	H	PHE	X	479	41.348	47.424	24.065	0.00	0.00
ATOM	7278	CA	PHE	X	479	39.539	47.313	25.246	0.00	0.00
ATOM	7279	HA	PHE	X	479	38.673	46.829	24.794	0.00	0.00
ATOM	7280	CB	PHE	X	479	40.145	46.326	26.211	0.00	0.00
ATOM	7281	HB2	PHE	X	479	40.680	45.553	25.660	0.00	0.00
ATOM	7282	HB3	PHE	X	479	40.921	46.863	26.755	0.00	0.00
ATOM	7283	CG	PHE	X	479	39.107	45.728	27.169	0.00	0.00
ATOM	7284	CD1	PHE	X	479	38.202	44.677	26.838	0.00	0.00
ATOM	7285	HD1	PHE	X	479	38.153	44.180	25.881	0.00	0.00
ATOM	7286	CE1	PHE	X	479	37.343	44.282	27.799	0.00	0.00
ATOM	7287	HE1	PHE	X	479	36.645	43.489	27.575	0.00	0.00
ATOM	7288	CZ	PHE	X	479	37.207	44.954	29.002	0.00	0.00
ATOM	7289	HZ	PHE	X	479	36.533	44.500	29.712	0.00	0.00
ATOM	7290	CE2	PHE	X	479	37.934	46.066	29.252	0.00	0.00
ATOM	7291	HE2	PHE	X	479	37.840	46.439	30.261	0.00	0.00
ATOM	7292	CD2	PHE	X	479	38.919	46.528	28.379	0.00	0.00
ATOM	7293	HD2	PHE	X	479	39.540	47.363	28.669	0.00	0.00
ATOM	7294	C	PHE	X	479	38.831	48.533	25.876	0.00	0.00
ATOM	7295	O	PHE	X	479	37.628	48.670	25.847	0.00	0.00
ATOM	7296	N	ALA	X	480	39.601	49.460	26.392	0.00	0.00
ATOM	7297	H	ALA	X	480	40.605	49.374	26.315	0.00	0.00
ATOM	7298	CA	ALA	X	480	39.104	50.765	26.892	0.00	0.00
ATOM	7299	HA	ALA	X	480	38.469	50.594	27.761	0.00	0.00
ATOM	7300	CB	ALA	X	480	40.273	51.609	27.354	0.00	0.00
ATOM	7301	HB1	ALA	X	480	40.686	51.148	28.251	0.00	0.00
ATOM	7302	HB2	ALA	X	480	40.930	51.640	26.484	0.00	0.00
ATOM	7303	HB3	ALA	X	480	39.903	52.609	27.580	0.00	0.00
ATOM	7304	C	ALA	X	480	38.227	51.522	25.954	0.00	0.00
ATOM	7305	O	ALA	X	480	37.158	52.007	26.386	0.00	0.00
ATOM	7306	N	ARG	X	481	38.570	51.622	24.622	0.00	0.00
ATOM	7307	H	ARG	X	481	39.348	51.084	24.266	0.00	0.00
ATOM	7308	CA	ARG	X	481	37.776	52.311	23.581	0.00	0.00
ATOM	7309	HA	ARG	X	481	37.725	53.383	23.773	0.00	0.00
ATOM	7310	CB	ARG	X	481	38.372	52.114	22.179	0.00	0.00
ATOM	7311	HB2	ARG	X	481	38.851	51.141	22.078	0.00	0.00
ATOM	7312	HB3	ARG	X	481	37.795	52.432	21.310	0.00	0.00
ATOM	7313	CG	ARG	X	481	39.608	53.041	22.182	0.00	0.00
ATOM	7314	HG2	ARG	X	481	39.229	54.062	22.228	0.00	0.00
ATOM	7315	HG3	ARG	X	481	40.344	52.829	22.958	0.00	0.00
ATOM	7316	CD	ARG	X	481	40.372	53.003	20.849	0.00	0.00
ATOM	7317	HD2	ARG	X	481	40.537	51.988	20.489	0.00	0.00

ATOM	7318	HD3	ARG	X	481	39.692	53.452	20.125	0.00	0.00
ATOM	7319	NE	ARG	X	481	41.711	53.639	20.883	0.00	0.00
ATOM	7320	HE	ARG	X	481	41.667	54.593	21.212	0.00	0.00
ATOM	7321	CZ	ARG	X	481	42.888	53.117	20.867	0.00	0.00
ATOM	7322	NH1	ARG	X	481	43.175	51.851	20.765	0.00	0.00
ATOM	7323	HH11	ARG	X	481	42.468	51.173	20.520	0.00	0.00
ATOM	7324	HH12	ARG	X	481	44.154	51.613	20.841	0.00	0.00
ATOM	7325	NH2	ARG	X	481	43.935	53.884	20.986	0.00	0.00
ATOM	7326	HH21	ARG	X	481	43.927	54.893	21.021	0.00	0.00
ATOM	7327	HH22	ARG	X	481	44.813	53.404	20.846	0.00	0.00
ATOM	7328	C	ARG	X	481	36.353	51.766	23.474	0.00	0.00
ATOM	7329	O	ARG	X	481	35.457	52.602	23.341	0.00	0.00
ATOM	7330	N	THR	X	482	36.127	50.477	23.440	0.00	0.00
ATOM	7331	H	THR	X	482	36.880	49.826	23.607	0.00	0.00
ATOM	7332	CA	THR	X	482	34.735	49.854	23.143	0.00	0.00
ATOM	7333	HA	THR	X	482	33.987	50.646	23.177	0.00	0.00
ATOM	7334	CB	THR	X	482	34.743	49.211	21.722	0.00	0.00
ATOM	7335	HB	THR	X	482	33.795	48.706	21.535	0.00	0.00
ATOM	7336	CG2	THR	X	482	34.957	50.276	20.595	0.00	0.00
ATOM	7337	HG21	THR	X	482	35.906	50.810	20.648	0.00	0.00
ATOM	7338	HG22	THR	X	482	35.044	49.636	19.717	0.00	0.00
ATOM	7339	HG23	THR	X	482	34.098	50.939	20.495	0.00	0.00
ATOM	7340	OG1	THR	X	482	35.904	48.307	21.626	0.00	0.00
ATOM	7341	HG1	THR	X	482	36.431	48.499	20.847	0.00	0.00
ATOM	7342	C	THR	X	482	34.287	48.729	24.012	0.00	0.00
ATOM	7343	O	THR	X	482	33.130	48.506	24.005	0.00	0.00
ATOM	7344	N	GLY	X	483	35.136	48.088	24.768	0.00	0.00
ATOM	7345	H	GLY	X	483	36.057	48.495	24.848	0.00	0.00
ATOM	7346	CA	GLY	X	483	34.889	46.829	25.452	0.00	0.00
ATOM	7347	HA2	GLY	X	483	35.241	46.878	26.432	0.00	0.00
ATOM	7348	HA3	GLY	X	483	33.756	46.619	25.566	0.00	0.00
ATOM	7349	C	GLY	X	483	35.464	45.609	24.787	0.00	0.00
ATOM	7350	O	GLY	X	483	35.219	44.565	25.296	0.00	0.00
ATOM	7351	N	ASP	X	484	36.163	45.755	23.649	0.00	0.00
ATOM	7352	H	ASP	X	484	36.242	46.684	23.261	0.00	0.00
ATOM	7353	CA	ASP	X	484	36.609	44.671	22.845	0.00	0.00
ATOM	7354	HA	ASP	X	484	36.497	43.734	23.390	0.00	0.00
ATOM	7355	CB	ASP	X	484	35.846	44.744	21.531	0.00	0.00
ATOM	7356	HB2	ASP	X	484	35.812	45.776	21.183	0.00	0.00
ATOM	7357	HB3	ASP	X	484	36.443	44.236	20.774	0.00	0.00
ATOM	7358	CG	ASP	X	484	34.393	44.288	21.486	0.00	0.00
ATOM	7359	OD1	ASP	X	484	33.742	44.300	22.535	0.00	0.00
ATOM	7360	OD2	ASP	X	484	33.799	43.956	20.408	0.00	0.00
ATOM	7361	C	ASP	X	484	38.139	44.905	22.433	0.00	0.00
ATOM	7362	O	ASP	X	484	38.401	46.020	21.942	0.00	0.00
ATOM	7363	N	PRO	X	485	39.111	43.981	22.705	0.00	0.00
ATOM	7364	CD	PRO	X	485	38.856	42.622	23.240	0.00	0.00
ATOM	7365	HD2	PRO	X	485	38.490	42.013	22.414	0.00	0.00
ATOM	7366	HD3	PRO	X	485	38.189	42.677	24.100	0.00	0.00
ATOM	7367	CG	PRO	X	485	40.226	42.033	23.618	0.00	0.00
ATOM	7368	HG2	PRO	X	485	40.378	41.165	22.976	0.00	0.00
ATOM	7369	HG3	PRO	X	485	40.273	41.725	24.662	0.00	0.00
ATOM	7370	CB	PRO	X	485	41.186	43.178	23.446	0.00	0.00
ATOM	7371	HB2	PRO	X	485	42.122	42.840	23.001	0.00	0.00
ATOM	7372	HB3	PRO	X	485	41.425	43.646	24.401	0.00	0.00
ATOM	7373	CA	PRO	X	485	40.537	44.280	22.562	0.00	0.00
ATOM	7374	HA	PRO	X	485	40.759	45.280	22.935	0.00	0.00
ATOM	7375	C	PRO	X	485	40.956	44.181	21.051	0.00	0.00
ATOM	7376	O	PRO	X	485	42.107	44.295	20.720	0.00	0.00
ATOM	7377	N	ASN	X	486	40.006	44.070	20.123	0.00	0.00
ATOM	7378	H	ASN	X	486	39.057	43.901	20.425	0.00	0.00
ATOM	7379	CA	ASN	X	486	40.136	44.014	18.656	0.00	0.00
ATOM	7380	HA	ASN	X	486	41.176	44.013	18.329	0.00	0.00
ATOM	7381	CB	ASN	X	486	39.331	42.752	18.262	0.00	0.00
ATOM	7382	HB2	ASN	X	486	39.378	42.504	17.202	0.00	0.00
ATOM	7383	HB3	ASN	X	486	39.723	41.899	18.817	0.00	0.00
ATOM	7384	CG	ASN	X	486	37.869	42.780	18.621	0.00	0.00
ATOM	7385	OD1	ASN	X	486	37.072	43.621	18.300	0.00	0.00
ATOM	7386	ND2	ASN	X	486	37.449	41.814	19.366	0.00	0.00
ATOM	7387	HD21	ASN	X	486	36.534	41.939	19.775	0.00	0.00

ATOM	7388	HD22	ASN	X	486	38.036	41.024	19.591	0.00	0.00
ATOM	7389	C	ASN	X	486	39.628	45.313	17.943	0.00	0.00
ATOM	7390	O	ASN	X	486	38.651	45.939	18.415	0.00	0.00
ATOM	7391	N	GLU	X	487	40.157	45.699	16.736	0.00	0.00
ATOM	7392	H	GLU	X	487	40.801	45.024	16.350	0.00	0.00
ATOM	7393	CA	GLU	X	487	39.490	46.546	15.851	0.00	0.00
ATOM	7394	HA	GLU	X	487	39.513	47.588	16.170	0.00	0.00
ATOM	7395	CB	GLU	X	487	40.245	46.549	14.505	0.00	0.00
ATOM	7396	HB2	GLU	X	487	40.120	45.603	13.978	0.00	0.00
ATOM	7397	HB3	GLU	X	487	39.815	47.404	13.985	0.00	0.00
ATOM	7398	CG	GLU	X	487	41.809	46.742	14.548	0.00	0.00
ATOM	7399	HG2	GLU	X	487	42.342	45.881	14.950	0.00	0.00
ATOM	7400	HG3	GLU	X	487	42.233	46.817	13.547	0.00	0.00
ATOM	7401	CD	GLU	X	487	42.092	48.074	15.307	0.00	0.00
ATOM	7402	OE1	GLU	X	487	42.835	48.014	16.332	0.00	0.00
ATOM	7403	OE2	GLU	X	487	41.771	49.161	14.856	0.00	0.00
ATOM	7404	C	GLU	X	487	38.029	46.113	15.609	0.00	0.00
ATOM	7405	O	GLU	X	487	37.746	44.942	15.287	0.00	0.00
ATOM	7406	N	PRO	X	488	37.086	47.032	15.472	0.00	0.00
ATOM	7407	CD	PRO	X	488	37.261	48.461	15.883	0.00	0.00
ATOM	7408	HD2	PRO	X	488	37.677	49.126	15.126	0.00	0.00
ATOM	7409	HD3	PRO	X	488	37.947	48.606	16.717	0.00	0.00
ATOM	7410	CG	PRO	X	488	35.877	48.900	16.234	0.00	0.00
ATOM	7411	HG2	PRO	X	488	35.798	49.950	15.950	0.00	0.00
ATOM	7412	HG3	PRO	X	488	35.666	48.654	17.275	0.00	0.00
ATOM	7413	CB	PRO	X	488	35.018	48.054	15.298	0.00	0.00
ATOM	7414	HB2	PRO	X	488	35.091	48.548	14.329	0.00	0.00
ATOM	7415	HB3	PRO	X	488	33.958	47.924	15.518	0.00	0.00
ATOM	7416	CA	PRO	X	488	35.679	46.724	15.215	0.00	0.00
ATOM	7417	HA	PRO	X	488	35.318	46.083	16.019	0.00	0.00
ATOM	7418	C	PRO	X	488	35.458	46.108	13.823	0.00	0.00
ATOM	7419	O	PRO	X	488	34.441	45.460	13.720	0.00	0.00
ATOM	7420	N	ARG	X	489	36.342	46.223	12.841	0.00	0.00
ATOM	7421	H	ARG	X	489	37.246	46.618	13.056	0.00	0.00
ATOM	7422	CA	ARG	X	489	36.159	45.390	11.653	0.00	0.00
ATOM	7423	HA	ARG	X	489	35.548	44.530	11.926	0.00	0.00
ATOM	7424	CB	ARG	X	489	35.337	46.202	10.655	0.00	0.00
ATOM	7425	HB2	ARG	X	489	35.161	45.612	9.756	0.00	0.00
ATOM	7426	HB3	ARG	X	489	34.335	46.436	11.015	0.00	0.00
ATOM	7427	CG	ARG	X	489	36.021	47.455	10.232	0.00	0.00
ATOM	7428	HG2	ARG	X	489	36.562	48.019	10.992	0.00	0.00
ATOM	7429	HG3	ARG	X	489	36.561	47.110	9.351	0.00	0.00
ATOM	7430	CD	ARG	X	489	34.978	48.441	9.712	0.00	0.00
ATOM	7431	HD2	ARG	X	489	34.289	47.976	9.008	0.00	0.00
ATOM	7432	HD3	ARG	X	489	34.374	48.710	10.579	0.00	0.00
ATOM	7433	NE	ARG	X	489	35.578	49.623	9.090	0.00	0.00
ATOM	7434	HE	ARG	X	489	35.794	50.391	9.710	0.00	0.00
ATOM	7435	CZ	ARG	X	489	35.779	49.838	7.797	0.00	0.00
ATOM	7436	NH1	ARG	X	489	36.301	50.963	7.417	0.00	0.00
ATOM	7437	HH11	ARG	X	489	36.479	51.663	8.123	0.00	0.00
ATOM	7438	HH12	ARG	X	489	36.799	51.164	6.562	0.00	0.00
ATOM	7439	NH2	ARG	X	489	35.579	49.009	6.857	0.00	0.00
ATOM	7440	HH21	ARG	X	489	34.994	48.202	7.020	0.00	0.00
ATOM	7441	HH22	ARG	X	489	35.866	49.305	5.936	0.00	0.00
ATOM	7442	C	ARG	X	489	37.548	44.826	11.115	0.00	0.00
ATOM	7443	O	ARG	X	489	38.593	45.406	11.475	0.00	0.00
ATOM	7444	N	ASP	X	490	37.493	43.763	10.274	0.00	0.00
ATOM	7445	H	ASP	X	490	36.605	43.285	10.216	0.00	0.00
ATOM	7446	CA	ASP	X	490	38.597	42.834	9.881	0.00	0.00
ATOM	7447	HA	ASP	X	490	38.869	42.503	10.883	0.00	0.00
ATOM	7448	CB	ASP	X	490	37.955	41.642	9.212	0.00	0.00
ATOM	7449	HB2	ASP	X	490	37.139	41.261	9.827	0.00	0.00
ATOM	7450	HB3	ASP	X	490	37.572	41.923	8.231	0.00	0.00
ATOM	7451	CG	ASP	X	490	39.024	40.566	9.022	0.00	0.00
ATOM	7452	OD1	ASP	X	490	39.849	40.631	8.019	0.00	0.00
ATOM	7453	OD2	ASP	X	490	39.011	39.610	9.823	0.00	0.00
ATOM	7454	C	ASP	X	490	39.740	43.404	9.108	0.00	0.00
ATOM	7455	O	ASP	X	490	39.456	43.906	7.977	0.00	0.00
ATOM	7456	N	PRO	X	491	40.964	43.409	9.571	0.00	0.00
ATOM	7457	CD	PRO	X	491	41.278	43.134	10.933	0.00	0.00

ATOM	7458	HD2	PRO	X	491	41.222	42.055	11.080	0.00	0.00
ATOM	7459	HD3	PRO	X	491	40.589	43.628	11.617	0.00	0.00
ATOM	7460	CG	PRO	X	491	42.689	43.580	11.273	0.00	0.00
ATOM	7461	HG2	PRO	X	491	43.345	42.716	11.383	0.00	0.00
ATOM	7462	HG3	PRO	X	491	42.699	44.249	12.133	0.00	0.00
ATOM	7463	CB	PRO	X	491	43.075	44.405	10.008	0.00	0.00
ATOM	7464	HB2	PRO	X	491	44.132	44.435	9.742	0.00	0.00
ATOM	7465	HB3	PRO	X	491	42.730	45.427	10.166	0.00	0.00
ATOM	7466	CA	PRO	X	491	42.254	43.777	8.875	0.00	0.00
ATOM	7467	HA	PRO	X	491	42.170	44.540	8.101	0.00	0.00
ATOM	7468	C	PRO	X	491	42.990	42.531	8.350	0.00	0.00
ATOM	7469	O	PRO	X	491	42.594	41.360	8.518	0.00	0.00
ATOM	7470	N	LYS	X	492	44.139	42.720	7.701	0.00	0.00
ATOM	7471	H	LYS	X	492	44.312	43.628	7.294	0.00	0.00
ATOM	7472	CA	LYS	X	492	44.931	41.622	7.232	0.00	0.00
ATOM	7473	HA	LYS	X	492	44.333	40.776	6.893	0.00	0.00
ATOM	7474	CB	LYS	X	492	45.746	42.278	6.162	0.00	0.00
ATOM	7475	HB2	LYS	X	492	46.263	41.537	5.551	0.00	0.00
ATOM	7476	HB3	LYS	X	492	45.085	42.672	5.391	0.00	0.00
ATOM	7477	CG	LYS	X	492	46.727	43.307	6.537	0.00	0.00
ATOM	7478	HG2	LYS	X	492	46.180	44.214	6.794	0.00	0.00
ATOM	7479	HG3	LYS	X	492	47.225	43.142	7.492	0.00	0.00
ATOM	7480	CD	LYS	X	492	47.744	43.639	5.498	0.00	0.00
ATOM	7481	HD2	LYS	X	492	48.441	44.424	5.792	0.00	0.00
ATOM	7482	HD3	LYS	X	492	48.429	42.791	5.466	0.00	0.00
ATOM	7483	CE	LYS	X	492	47.148	43.989	4.106	0.00	0.00
ATOM	7484	HE2	LYS	X	492	46.569	43.111	3.818	0.00	0.00
ATOM	7485	HE3	LYS	X	492	46.516	44.874	4.186	0.00	0.00
ATOM	7486	NZ	LYS	X	492	48.180	44.282	3.033	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	48.537	45.208	3.221	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	48.887	43.563	2.977	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	47.753	44.302	2.118	0.00	0.00
ATOM	7490	C	LYS	X	492	45.769	41.016	8.367	0.00	0.00
ATOM	7491	O	LYS	X	492	46.904	40.603	8.081	0.00	0.00
ATOM	7492	N	ALA	X	493	45.182	40.933	9.581	0.00	0.00
ATOM	7493	H	ALA	X	493	44.244	41.303	9.643	0.00	0.00
ATOM	7494	CA	ALA	X	493	45.833	40.427	10.826	0.00	0.00
ATOM	7495	HA	ALA	X	493	46.728	39.856	10.580	0.00	0.00
ATOM	7496	CB	ALA	X	493	46.338	41.657	11.711	0.00	0.00
ATOM	7497	HB1	ALA	X	493	46.937	41.243	12.523	0.00	0.00
ATOM	7498	HB2	ALA	X	493	47.080	42.245	11.172	0.00	0.00
ATOM	7499	HB3	ALA	X	493	45.484	42.243	12.049	0.00	0.00
ATOM	7500	C	ALA	X	493	44.832	39.591	11.704	0.00	0.00
ATOM	7501	O	ALA	X	493	43.637	39.789	11.612	0.00	0.00
ATOM	7502	N	PRO	X	494	45.326	38.720	12.561	0.00	0.00
ATOM	7503	CD	PRO	X	494	46.709	38.350	12.559	0.00	0.00
ATOM	7504	HD2	PRO	X	494	47.387	39.143	12.873	0.00	0.00
ATOM	7505	HD3	PRO	X	494	47.141	37.955	11.639	0.00	0.00
ATOM	7506	CG	PRO	X	494	46.877	37.308	13.558	0.00	0.00
ATOM	7507	HG2	PRO	X	494	47.327	37.706	14.468	0.00	0.00
ATOM	7508	HG3	PRO	X	494	47.510	36.502	13.188	0.00	0.00
ATOM	7509	CB	PRO	X	494	45.484	36.650	13.579	0.00	0.00
ATOM	7510	HB2	PRO	X	494	45.232	36.065	14.463	0.00	0.00
ATOM	7511	HB3	PRO	X	494	45.376	35.998	12.713	0.00	0.00
ATOM	7512	CA	PRO	X	494	44.504	37.799	13.447	0.00	0.00
ATOM	7513	HA	PRO	X	494	43.640	37.428	12.896	0.00	0.00
ATOM	7514	C	PRO	X	494	44.089	38.481	14.743	0.00	0.00
ATOM	7515	O	PRO	X	494	44.889	38.945	15.516	0.00	0.00
ATOM	7516	N	GLN	X	495	42.747	38.469	14.985	0.00	0.00
ATOM	7517	H	GLN	X	495	42.185	38.023	14.274	0.00	0.00
ATOM	7518	CA	GLN	X	495	42.165	39.196	16.128	0.00	0.00
ATOM	7519	HA	GLN	X	495	43.003	39.722	16.585	0.00	0.00
ATOM	7520	CB	GLN	X	495	41.134	40.198	15.515	0.00	0.00
ATOM	7521	HB2	GLN	X	495	40.480	39.706	14.795	0.00	0.00
ATOM	7522	HB3	GLN	X	495	40.512	40.637	16.294	0.00	0.00
ATOM	7523	CG	GLN	X	495	41.735	41.302	14.696	0.00	0.00
ATOM	7524	HG2	GLN	X	495	42.720	41.516	15.110	0.00	0.00
ATOM	7525	HG3	GLN	X	495	41.902	40.980	13.667	0.00	0.00
ATOM	7526	CD	GLN	X	495	40.920	42.569	14.720	0.00	0.00
ATOM	7527	OE1	GLN	X	495	41.143	43.400	15.548	0.00	0.00

ATOM	7528	NE2	GLN	X	495	39.827	42.620	13.980	0.00	0.00
ATOM	7529	HE21	GLN	X	495	39.324	43.491	14.073	0.00	0.00
ATOM	7530	HE22	GLN	X	495	39.596	41.824	13.403	0.00	0.00
ATOM	7531	C	GLN	X	495	41.432	38.315	17.217	0.00	0.00
ATOM	7532	O	GLN	X	495	41.126	37.136	16.991	0.00	0.00
ATOM	7533	N	TRP	X	496	41.289	38.949	18.398	0.00	0.00
ATOM	7534	H	TRP	X	496	41.735	39.840	18.562	0.00	0.00
ATOM	7535	CA	TRP	X	496	40.936	38.304	19.646	0.00	0.00
ATOM	7536	HA	TRP	X	496	41.564	37.414	19.684	0.00	0.00
ATOM	7537	CB	TRP	X	496	41.431	39.247	20.687	0.00	0.00
ATOM	7538	HB2	TRP	X	496	42.471	39.472	20.451	0.00	0.00
ATOM	7539	HB3	TRP	X	496	40.841	40.163	20.710	0.00	0.00
ATOM	7540	CG	TRP	X	496	41.502	38.841	22.126	0.00	0.00
ATOM	7541	CD1	TRP	X	496	40.832	37.818	22.711	0.00	0.00
ATOM	7542	HD1	TRP	X	496	40.227	37.051	22.252	0.00	0.00
ATOM	7543	NE1	TRP	X	496	41.077	37.753	24.070	0.00	0.00
ATOM	7544	HE1	TRP	X	496	40.834	36.952	24.636	0.00	0.00
ATOM	7545	CE2	TRP	X	496	41.942	38.758	24.468	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	42.418	39.158	25.672	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	42.170	38.701	26.619	0.00	0.00
ATOM	7548	CH2	TRP	X	496	43.390	40.140	25.702	0.00	0.00
ATOM	7549	HH2	TRP	X	496	43.904	40.362	26.626	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	43.952	40.674	24.543	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	44.854	41.267	24.519	0.00	0.00
ATOM	7552	CE3	TRP	X	496	43.279	40.357	23.323	0.00	0.00
ATOM	7553	HE3	TRP	X	496	43.566	40.905	22.437	0.00	0.00
ATOM	7554	CD2	TRP	X	496	42.338	39.411	23.248	0.00	0.00
ATOM	7555	C	TRP	X	496	39.414	38.023	19.791	0.00	0.00
ATOM	7556	O	TRP	X	496	38.626	39.003	19.837	0.00	0.00
ATOM	7557	N	PRO	X	497	39.008	36.688	19.922	0.00	0.00
ATOM	7558	CD	PRO	X	497	39.872	35.542	19.862	0.00	0.00
ATOM	7559	HD2	PRO	X	497	40.641	35.563	20.634	0.00	0.00
ATOM	7560	HD3	PRO	X	497	40.498	35.465	18.972	0.00	0.00
ATOM	7561	CG	PRO	X	497	39.005	34.334	19.935	0.00	0.00
ATOM	7562	HG2	PRO	X	497	38.911	34.020	20.974	0.00	0.00
ATOM	7563	HG3	PRO	X	497	39.400	33.584	19.249	0.00	0.00
ATOM	7564	CB	PRO	X	497	37.634	34.845	19.555	0.00	0.00
ATOM	7565	HB2	PRO	X	497	36.843	34.270	20.035	0.00	0.00
ATOM	7566	HB3	PRO	X	497	37.456	34.873	18.480	0.00	0.00
ATOM	7567	CA	PRO	X	497	37.617	36.276	20.073	0.00	0.00
ATOM	7568	HA	PRO	X	497	36.876	36.826	19.492	0.00	0.00
ATOM	7569	C	PRO	X	497	37.172	36.267	21.553	0.00	0.00
ATOM	7570	O	PRO	X	497	38.052	36.204	22.402	0.00	0.00
ATOM	7571	N	PRO	X	498	35.873	36.353	21.821	0.00	0.00
ATOM	7572	CD	PRO	X	498	34.773	36.588	20.907	0.00	0.00
ATOM	7573	HD2	PRO	X	498	34.752	35.768	20.189	0.00	0.00
ATOM	7574	HD3	PRO	X	498	35.074	37.542	20.474	0.00	0.00
ATOM	7575	CG	PRO	X	498	33.455	36.699	21.757	0.00	0.00
ATOM	7576	HG2	PRO	X	498	32.814	35.831	21.604	0.00	0.00
ATOM	7577	HG3	PRO	X	498	32.991	37.656	21.521	0.00	0.00
ATOM	7578	CB	PRO	X	498	34.005	36.806	23.195	0.00	0.00
ATOM	7579	HB2	PRO	X	498	33.327	36.220	23.814	0.00	0.00
ATOM	7580	HB3	PRO	X	498	34.012	37.827	23.575	0.00	0.00
ATOM	7581	CA	PRO	X	498	35.446	36.293	23.230	0.00	0.00
ATOM	7582	HA	PRO	X	498	36.033	36.934	23.887	0.00	0.00
ATOM	7583	C	PRO	X	498	35.442	34.864	23.916	0.00	0.00
ATOM	7584	O	PRO	X	498	35.555	33.824	23.268	0.00	0.00
ATOM	7585	N	TYR	X	499	35.412	34.826	25.226	0.00	0.00
ATOM	7586	H	TYR	X	499	35.048	35.650	25.683	0.00	0.00
ATOM	7587	CA	TYR	X	499	35.519	33.604	25.983	0.00	0.00
ATOM	7588	HA	TYR	X	499	36.191	32.878	25.525	0.00	0.00
ATOM	7589	CB	TYR	X	499	35.943	33.840	27.459	0.00	0.00
ATOM	7590	HB2	TYR	X	499	36.980	34.107	27.256	0.00	0.00
ATOM	7591	HB3	TYR	X	499	35.370	34.663	27.887	0.00	0.00
ATOM	7592	CG	TYR	X	499	35.805	32.701	28.426	0.00	0.00
ATOM	7593	CD1	TYR	X	499	34.557	32.423	28.973	0.00	0.00
ATOM	7594	HD1	TYR	X	499	33.734	33.111	28.851	0.00	0.00
ATOM	7595	CE1	TYR	X	499	34.297	31.176	29.643	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.364	31.008	30.161	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.288	30.226	29.774	0.00	0.00

ATOM	7598	OH	TYR	X	499	35.024	29.171	30.559	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.086	28.970	30.594	0.00	0.00
ATOM	7600	CE2	TYR	X	499	36.598	30.535	29.271	0.00	0.00
ATOM	7601	HE2	TYR	X	499	37.364	29.802	29.474	0.00	0.00
ATOM	7602	CD2	TYR	X	499	36.845	31.710	28.522	0.00	0.00
ATOM	7603	HD2	TYR	X	499	37.802	31.952	28.085	0.00	0.00
ATOM	7604	C	TYR	X	499	34.086	33.053	25.927	0.00	0.00
ATOM	7605	O	TYR	X	499	33.116	33.646	26.362	0.00	0.00
ATOM	7606	N	THR	X	500	34.047	31.822	25.362	0.00	0.00
ATOM	7607	H	THR	X	500	34.934	31.383	25.163	0.00	0.00
ATOM	7608	CA	THR	X	500	32.852	31.108	25.179	0.00	0.00
ATOM	7609	HA	THR	X	500	32.015	31.806	25.206	0.00	0.00
ATOM	7610	CB	THR	X	500	32.751	30.413	23.808	0.00	0.00
ATOM	7611	HB	THR	X	500	31.766	29.945	23.777	0.00	0.00
ATOM	7612	CG2	THR	X	500	32.914	31.368	22.654	0.00	0.00
ATOM	7613	HG21	THR	X	500	32.269	32.240	22.763	0.00	0.00
ATOM	7614	HG22	THR	X	500	33.928	31.730	22.824	0.00	0.00
ATOM	7615	HG23	THR	X	500	32.808	30.876	21.687	0.00	0.00
ATOM	7616	OG1	THR	X	500	33.755	29.506	23.713	0.00	0.00
ATOM	7617	HG1	THR	X	500	33.682	29.107	22.843	0.00	0.00
ATOM	7618	C	THR	X	500	32.617	30.210	26.364	0.00	0.00
ATOM	7619	O	THR	X	500	33.525	29.422	26.680	0.00	0.00
ATOM	7620	N	ALA	X	501	31.421	30.134	26.957	0.00	0.00
ATOM	7621	H	ALA	X	501	30.703	30.824	26.789	0.00	0.00
ATOM	7622	CA	ALA	X	501	30.993	29.163	27.929	0.00	0.00
ATOM	7623	HA	ALA	X	501	31.676	29.152	28.779	0.00	0.00
ATOM	7624	CB	ALA	X	501	29.643	29.646	28.457	0.00	0.00
ATOM	7625	HB1	ALA	X	501	29.572	30.710	28.681	0.00	0.00
ATOM	7626	HB2	ALA	X	501	28.887	29.582	27.674	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.245	28.961	29.207	0.00	0.00
ATOM	7628	C	ALA	X	501	30.833	27.696	27.329	0.00	0.00
ATOM	7629	O	ALA	X	501	31.078	26.716	28.060	0.00	0.00
ATOM	7630	N	GLY	X	502	30.573	27.586	25.999	0.00	0.00
ATOM	7631	H	GLY	X	502	30.215	28.363	25.463	0.00	0.00
ATOM	7632	CA	GLY	X	502	30.850	26.319	25.321	0.00	0.00
ATOM	7633	HA2	GLY	X	502	30.462	25.462	25.929	0.00	0.00
ATOM	7634	HA3	GLY	X	502	30.411	26.306	24.405	0.00	0.00
ATOM	7635	C	GLY	X	502	32.438	26.001	25.362	0.00	0.00
ATOM	7636	O	GLY	X	502	32.953	25.369	26.306	0.00	0.00
ATOM	7637	N	ALA	X	503	33.132	26.469	24.352	0.00	0.00
ATOM	7638	H	ALA	X	503	32.792	27.188	23.729	0.00	0.00
ATOM	7639	CA	ALA	X	503	34.516	25.942	24.006	0.00	0.00
ATOM	7640	HA	ALA	X	503	34.581	24.857	24.086	0.00	0.00
ATOM	7641	CB	ALA	X	503	34.792	26.224	22.535	0.00	0.00
ATOM	7642	HB1	ALA	X	503	35.796	25.812	22.437	0.00	0.00
ATOM	7643	HB2	ALA	X	503	34.146	25.588	21.930	0.00	0.00
ATOM	7644	HB3	ALA	X	503	34.835	27.292	22.323	0.00	0.00
ATOM	7645	C	ALA	X	503	35.622	26.494	24.969	0.00	0.00
ATOM	7646	O	ALA	X	503	36.804	26.118	24.817	0.00	0.00
ATOM	7647	N	GLN	X	504	35.278	27.306	25.955	0.00	0.00
ATOM	7648	H	GLN	X	504	34.351	27.705	25.909	0.00	0.00
ATOM	7649	CA	GLN	X	504	36.238	27.958	26.872	0.00	0.00
ATOM	7650	HA	GLN	X	504	35.730	28.741	27.435	0.00	0.00
ATOM	7651	CB	GLN	X	504	36.746	26.987	27.952	0.00	0.00
ATOM	7652	HB2	GLN	X	504	37.459	26.291	27.511	0.00	0.00
ATOM	7653	HB3	GLN	X	504	37.224	27.548	28.756	0.00	0.00
ATOM	7654	CG	GLN	X	504	35.687	26.086	28.624	0.00	0.00
ATOM	7655	HG2	GLN	X	504	34.922	26.738	29.045	0.00	0.00
ATOM	7656	HG3	GLN	X	504	35.296	25.404	27.869	0.00	0.00
ATOM	7657	CD	GLN	X	504	36.182	25.115	29.661	0.00	0.00
ATOM	7658	OE1	GLN	X	504	36.181	25.309	30.873	0.00	0.00
ATOM	7659	NE2	GLN	X	504	36.839	24.023	29.202	0.00	0.00
ATOM	7660	HE21	GLN	X	504	37.189	23.446	29.954	0.00	0.00
ATOM	7661	HE22	GLN	X	504	36.794	23.644	28.267	0.00	0.00
ATOM	7662	C	GLN	X	504	37.424	28.669	26.167	0.00	0.00
ATOM	7663	O	GLN	X	504	38.599	28.435	26.434	0.00	0.00
ATOM	7664	N	GLN	X	505	37.025	29.344	25.086	0.00	0.00
ATOM	7665	H	GLN	X	505	36.095	29.226	24.710	0.00	0.00
ATOM	7666	CA	GLN	X	505	37.977	30.047	24.160	0.00	0.00
ATOM	7667	HA	GLN	X	505	38.674	29.344	23.705	0.00	0.00

ATOM	7668	CB	GLN	X	505	37.068	30.626	23.025	0.00	0.00
ATOM	7669	HB2	GLN	X	505	36.427	29.805	22.704	0.00	0.00
ATOM	7670	HB3	GLN	X	505	36.335	31.309	23.454	0.00	0.00
ATOM	7671	CG	GLN	X	505	37.783	31.126	21.736	0.00	0.00
ATOM	7672	HG2	GLN	X	505	38.416	32.012	21.789	0.00	0.00
ATOM	7673	HG3	GLN	X	505	38.459	30.372	21.333	0.00	0.00
ATOM	7674	CD	GLN	X	505	36.756	31.376	20.650	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.762	30.739	19.605	0.00	0.00
ATOM	7676	NE2	GLN	X	505	35.779	32.222	20.931	0.00	0.00
ATOM	7677	HE21	GLN	X	505	34.947	32.205	20.357	0.00	0.00
ATOM	7678	HE22	GLN	X	505	35.735	32.797	21.759	0.00	0.00
ATOM	7679	C	GLN	X	505	38.870	31.089	24.836	0.00	0.00
ATOM	7680	O	GLN	X	505	38.447	31.912	25.662	0.00	0.00
ATOM	7681	N	TYR	X	506	40.156	31.107	24.432	0.00	0.00
ATOM	7682	H	TYR	X	506	40.454	30.493	23.688	0.00	0.00
ATOM	7683	CA	TYR	X	506	41.111	32.123	24.947	0.00	0.00
ATOM	7684	HA	TYR	X	506	40.512	33.028	25.047	0.00	0.00
ATOM	7685	CB	TYR	X	506	41.739	31.679	26.277	0.00	0.00
ATOM	7686	HB2	TYR	X	506	42.239	32.508	26.778	0.00	0.00
ATOM	7687	HB3	TYR	X	506	40.904	31.381	26.911	0.00	0.00
ATOM	7688	CG	TYR	X	506	42.694	30.573	26.133	0.00	0.00
ATOM	7689	CD1	TYR	X	506	42.224	29.285	25.984	0.00	0.00
ATOM	7690	HD1	TYR	X	506	41.172	29.042	25.947	0.00	0.00
ATOM	7691	CE1	TYR	X	506	43.180	28.217	25.910	0.00	0.00
ATOM	7692	HE1	TYR	X	506	43.026	27.157	25.769	0.00	0.00
ATOM	7693	CZ	TYR	X	506	44.541	28.509	25.984	0.00	0.00
ATOM	7694	OH	TYR	X	506	45.501	27.533	25.792	0.00	0.00
ATOM	7695	HH	TYR	X	506	45.013	26.707	25.837	0.00	0.00
ATOM	7696	CE2	TYR	X	506	44.959	29.852	26.197	0.00	0.00
ATOM	7697	HE2	TYR	X	506	46.014	30.073	26.134	0.00	0.00
ATOM	7698	CD2	TYR	X	506	44.055	30.900	26.233	0.00	0.00
ATOM	7699	HD2	TYR	X	506	44.324	31.943	26.307	0.00	0.00
ATOM	7700	C	TYR	X	506	42.257	32.444	23.934	0.00	0.00
ATOM	7701	O	TYR	X	506	42.518	31.608	23.076	0.00	0.00
ATOM	7702	N	VAL	X	507	43.015	33.546	24.031	0.00	0.00
ATOM	7703	H	VAL	X	507	42.610	34.288	24.584	0.00	0.00
ATOM	7704	CA	VAL	X	507	44.252	33.757	23.147	0.00	0.00
ATOM	7705	HA	VAL	X	507	44.117	32.981	22.393	0.00	0.00
ATOM	7706	CB	VAL	X	507	44.173	35.108	22.451	0.00	0.00
ATOM	7707	HB	VAL	X	507	44.935	35.082	21.672	0.00	0.00
ATOM	7708	CG1	VAL	X	507	42.856	35.325	21.671	0.00	0.00
ATOM	7709	HG11	VAL	X	507	42.681	34.637	20.843	0.00	0.00
ATOM	7710	HG12	VAL	X	507	41.953	35.301	22.281	0.00	0.00
ATOM	7711	HG13	VAL	X	507	42.692	36.359	21.368	0.00	0.00
ATOM	7712	CG2	VAL	X	507	44.552	36.337	23.370	0.00	0.00
ATOM	7713	HG21	VAL	X	507	43.886	36.380	24.232	0.00	0.00
ATOM	7714	HG22	VAL	X	507	45.545	36.252	23.810	0.00	0.00
ATOM	7715	HG23	VAL	X	507	44.470	37.258	22.792	0.00	0.00
ATOM	7716	C	VAL	X	507	45.630	33.564	23.818	0.00	0.00
ATOM	7717	O	VAL	X	507	45.785	33.586	25.028	0.00	0.00
ATOM	7718	N	SER	X	508	46.705	33.341	22.978	0.00	0.00
ATOM	7719	H	SER	X	508	46.500	33.143	22.009	0.00	0.00
ATOM	7720	CA	SER	X	508	48.125	33.553	23.376	0.00	0.00
ATOM	7721	HA	SER	X	508	48.214	33.361	24.445	0.00	0.00
ATOM	7722	CB	SER	X	508	48.914	32.482	22.627	0.00	0.00
ATOM	7723	HB2	SER	X	508	48.485	31.481	22.678	0.00	0.00
ATOM	7724	HB3	SER	X	508	49.066	32.875	21.622	0.00	0.00
ATOM	7725	OG	SER	X	508	50.190	32.538	23.199	0.00	0.00
ATOM	7726	HG	SER	X	508	50.259	31.911	23.923	0.00	0.00
ATOM	7727	C	SER	X	508	48.609	34.956	23.067	0.00	0.00
ATOM	7728	O	SER	X	508	48.384	35.495	21.962	0.00	0.00
ATOM	7729	N	LEU	X	509	49.426	35.541	23.955	0.00	0.00
ATOM	7730	H	LEU	X	509	49.651	34.961	24.750	0.00	0.00
ATOM	7731	CA	LEU	X	509	50.128	36.894	23.853	0.00	0.00
ATOM	7732	HA	LEU	X	509	49.949	37.339	22.874	0.00	0.00
ATOM	7733	CB	LEU	X	509	49.686	37.869	24.936	0.00	0.00
ATOM	7734	HB2	LEU	X	509	49.922	37.387	25.885	0.00	0.00
ATOM	7735	HB3	LEU	X	509	50.258	38.786	24.798	0.00	0.00
ATOM	7736	CG	LEU	X	509	48.193	38.145	25.037	0.00	0.00
ATOM	7737	HG	LEU	X	509	47.689	37.222	25.325	0.00	0.00

ATOM	7738	CD1	LEU	X	509	47.959	39.252	26.104	0.00	0.00
ATOM	7739	HD11	LEU	X	509	48.375	39.038	27.089	0.00	0.00
ATOM	7740	HD12	LEU	X	509	48.434	40.090	25.595	0.00	0.00
ATOM	7741	HD13	LEU	X	509	46.879	39.393	26.140	0.00	0.00
ATOM	7742	CD2	LEU	X	509	47.477	38.577	23.826	0.00	0.00
ATOM	7743	HD21	LEU	X	509	47.660	37.857	23.028	0.00	0.00
ATOM	7744	HD22	LEU	X	509	46.406	38.538	24.026	0.00	0.00
ATOM	7745	HD23	LEU	X	509	47.809	39.548	23.459	0.00	0.00
ATOM	7746	C	LEU	X	509	51.632	36.547	23.872	0.00	0.00
ATOM	7747	O	LEU	X	509	52.234	36.168	24.888	0.00	0.00
ATOM	7748	N	ASP	X	510	52.233	36.821	22.715	0.00	0.00
ATOM	7749	H	ASP	X	510	51.601	37.247	22.052	0.00	0.00
ATOM	7750	CA	ASP	X	510	53.560	36.522	22.224	0.00	0.00
ATOM	7751	HA	ASP	X	510	54.346	36.751	22.943	0.00	0.00
ATOM	7752	CB	ASP	X	510	53.548	35.069	21.850	0.00	0.00
ATOM	7753	HB2	ASP	X	510	53.037	34.495	22.622	0.00	0.00
ATOM	7754	HB3	ASP	X	510	53.019	34.932	20.907	0.00	0.00
ATOM	7755	CG	ASP	X	510	54.973	34.520	21.640	0.00	0.00
ATOM	7756	OD1	ASP	X	510	55.758	34.743	22.566	0.00	0.00
ATOM	7757	OD2	ASP	X	510	55.266	34.195	20.500	0.00	0.00
ATOM	7758	C	ASP	X	510	54.003	37.362	20.990	0.00	0.00
ATOM	7759	O	ASP	X	510	53.263	38.043	20.319	0.00	0.00
ATOM	7760	N	LEU	X	511	55.284	37.287	20.667	0.00	0.00
ATOM	7761	H	LEU	X	511	55.834	36.733	21.307	0.00	0.00
ATOM	7762	CA	LEU	X	511	56.076	37.962	19.595	0.00	0.00
ATOM	7763	HA	LEU	X	511	56.017	39.049	19.650	0.00	0.00
ATOM	7764	CB	LEU	X	511	57.555	37.449	19.596	0.00	0.00
ATOM	7765	HB2	LEU	X	511	57.616	36.385	19.370	0.00	0.00
ATOM	7766	HB3	LEU	X	511	57.973	38.023	18.769	0.00	0.00
ATOM	7767	CG	LEU	X	511	58.435	37.635	20.842	0.00	0.00
ATOM	7768	HG	LEU	X	511	57.981	37.179	21.722	0.00	0.00
ATOM	7769	CD1	LEU	X	511	59.834	37.053	20.779	0.00	0.00
ATOM	7770	HD11	LEU	X	511	60.365	37.228	21.715	0.00	0.00
ATOM	7771	HD12	LEU	X	511	59.758	35.983	20.585	0.00	0.00
ATOM	7772	HD13	LEU	X	511	60.357	37.560	19.969	0.00	0.00
ATOM	7773	CD2	LEU	X	511	58.570	39.162	21.187	0.00	0.00
ATOM	7774	HD21	LEU	X	511	59.103	39.130	22.137	0.00	0.00
ATOM	7775	HD22	LEU	X	511	59.275	39.656	20.519	0.00	0.00
ATOM	7776	HD23	LEU	X	511	57.551	39.547	21.233	0.00	0.00
ATOM	7777	C	LEU	X	511	55.540	37.545	18.283	0.00	0.00
ATOM	7778	O	LEU	X	511	55.414	38.410	17.408	0.00	0.00
ATOM	7779	N	ARG	X	512	55.101	36.305	18.125	0.00	0.00
ATOM	7780	H	ARG	X	512	55.239	35.677	18.903	0.00	0.00
ATOM	7781	CA	ARG	X	512	54.419	35.820	16.955	0.00	0.00
ATOM	7782	HA	ARG	X	512	55.057	36.027	16.096	0.00	0.00
ATOM	7783	CB	ARG	X	512	54.025	34.370	16.936	0.00	0.00
ATOM	7784	HB2	ARG	X	512	53.333	34.155	17.749	0.00	0.00
ATOM	7785	HB3	ARG	X	512	53.616	34.169	15.946	0.00	0.00
ATOM	7786	CG	ARG	X	512	55.264	33.522	17.031	0.00	0.00
ATOM	7787	HG2	ARG	X	512	55.518	33.309	15.993	0.00	0.00
ATOM	7788	HG3	ARG	X	512	56.062	33.889	17.676	0.00	0.00
ATOM	7789	CD	ARG	X	512	54.931	32.159	17.628	0.00	0.00
ATOM	7790	HD2	ARG	X	512	54.466	32.285	18.606	0.00	0.00
ATOM	7791	HD3	ARG	X	512	54.177	31.661	17.019	0.00	0.00
ATOM	7792	NE	ARG	X	512	56.083	31.255	17.771	0.00	0.00
ATOM	7793	HE	ARG	X	512	55.922	30.345	17.365	0.00	0.00
ATOM	7794	CZ	ARG	X	512	57.010	31.267	18.720	0.00	0.00
ATOM	7795	NH1	ARG	X	512	57.173	32.281	19.555	0.00	0.00
ATOM	7796	HH11	ARG	X	512	56.551	33.065	19.689	0.00	0.00
ATOM	7797	HH12	ARG	X	512	57.993	32.308	20.145	0.00	0.00
ATOM	7798	NH2	ARG	X	512	57.864	30.310	18.884	0.00	0.00
ATOM	7799	HH21	ARG	X	512	57.803	29.522	18.255	0.00	0.00
ATOM	7800	HH22	ARG	X	512	58.347	30.145	19.756	0.00	0.00
ATOM	7801	C	ARG	X	512	53.025	36.548	16.777	0.00	0.00
ATOM	7802	O	ARG	X	512	52.463	36.956	17.795	0.00	0.00
ATOM	7803	N	PRO	X	513	52.443	36.899	15.662	0.00	0.00
ATOM	7804	CD	PRO	X	513	53.074	37.024	14.392	0.00	0.00
ATOM	7805	HD2	PRO	X	513	53.321	36.015	14.063	0.00	0.00
ATOM	7806	HD3	PRO	X	513	53.926	37.692	14.516	0.00	0.00
ATOM	7807	CG	PRO	X	513	52.172	37.709	13.362	0.00	0.00

ATOM	7808	HG2	PRO	X	513	52.423	37.388	12.351	0.00	0.00
ATOM	7809	HG3	PRO	X	513	52.246	38.795	13.430	0.00	0.00
ATOM	7810	CB	PRO	X	513	50.807	37.337	13.947	0.00	0.00
ATOM	7811	HB2	PRO	X	513	50.588	36.346	13.547	0.00	0.00
ATOM	7812	HB3	PRO	X	513	50.031	38.023	13.609	0.00	0.00
ATOM	7813	CA	PRO	X	513	51.017	37.268	15.484	0.00	0.00
ATOM	7814	HA	PRO	X	513	50.942	38.268	15.911	0.00	0.00
ATOM	7815	C	PRO	X	513	50.050	36.329	16.160	0.00	0.00
ATOM	7816	O	PRO	X	513	50.373	35.178	16.217	0.00	0.00
ATOM	7817	N	LEU	X	514	48.943	36.886	16.615	0.00	0.00
ATOM	7818	H	LEU	X	514	48.824	37.845	16.320	0.00	0.00
ATOM	7819	CA	LEU	X	514	48.019	36.315	17.590	0.00	0.00
ATOM	7820	HA	LEU	X	514	48.485	36.266	18.574	0.00	0.00
ATOM	7821	CB	LEU	X	514	46.811	37.311	17.653	0.00	0.00
ATOM	7822	HB2	LEU	X	514	47.246	38.283	17.422	0.00	0.00
ATOM	7823	HB3	LEU	X	514	46.092	37.159	16.848	0.00	0.00
ATOM	7824	CG	LEU	X	514	46.097	37.358	19.015	0.00	0.00
ATOM	7825	HG	LEU	X	514	46.173	36.375	19.481	0.00	0.00
ATOM	7826	CD1	LEU	X	514	46.592	38.472	19.987	0.00	0.00
ATOM	7827	HD11	LEU	X	514	47.642	38.263	20.192	0.00	0.00
ATOM	7828	HD12	LEU	X	514	46.420	39.452	19.542	0.00	0.00
ATOM	7829	HD13	LEU	X	514	46.127	38.311	20.960	0.00	0.00
ATOM	7830	CD2	LEU	X	514	44.616	37.666	18.683	0.00	0.00
ATOM	7831	HD21	LEU	X	514	44.633	38.577	18.084	0.00	0.00
ATOM	7832	HD22	LEU	X	514	44.294	36.812	18.086	0.00	0.00
ATOM	7833	HD23	LEU	X	514	43.934	37.754	19.529	0.00	0.00
ATOM	7834	C	LEU	X	514	47.539	34.977	17.193	0.00	0.00
ATOM	7835	O	LEU	X	514	47.036	34.785	16.090	0.00	0.00
ATOM	7836	N	GLU	X	515	47.567	34.021	18.090	0.00	0.00
ATOM	7837	H	GLU	X	515	48.051	34.250	18.946	0.00	0.00
ATOM	7838	CA	GLU	X	515	47.058	32.686	17.987	0.00	0.00
ATOM	7839	HA	GLU	X	515	46.591	32.496	17.021	0.00	0.00
ATOM	7840	CB	GLU	X	515	48.281	31.730	18.155	0.00	0.00
ATOM	7841	HB2	GLU	X	515	48.840	31.798	17.222	0.00	0.00
ATOM	7842	HB3	GLU	X	515	48.951	32.199	18.876	0.00	0.00
ATOM	7843	CG	GLU	X	515	48.072	30.244	18.296	0.00	0.00
ATOM	7844	HG2	GLU	X	515	47.523	30.036	19.215	0.00	0.00
ATOM	7845	HG3	GLU	X	515	47.477	29.791	17.503	0.00	0.00
ATOM	7846	CD	GLU	X	515	49.437	29.454	18.311	0.00	0.00
ATOM	7847	OE1	GLU	X	515	50.407	29.921	17.667	0.00	0.00
ATOM	7848	OE2	GLU	X	515	49.659	28.493	19.137	0.00	0.00
ATOM	7849	C	GLU	X	515	45.959	32.415	19.042	0.00	0.00
ATOM	7850	O	GLU	X	515	46.174	32.593	20.214	0.00	0.00
ATOM	7851	N	VAL	X	516	44.816	31.897	18.552	0.00	0.00
ATOM	7852	H	VAL	X	516	44.662	31.577	17.606	0.00	0.00
ATOM	7853	CA	VAL	X	516	43.697	31.498	19.460	0.00	0.00
ATOM	7854	HA	VAL	X	516	43.808	32.161	20.318	0.00	0.00
ATOM	7855	CB	VAL	X	516	42.356	31.729	18.701	0.00	0.00
ATOM	7856	HB	VAL	X	516	42.338	31.070	17.833	0.00	0.00
ATOM	7857	CG1	VAL	X	516	41.082	31.400	19.443	0.00	0.00
ATOM	7858	HG11	VAL	X	516	40.254	31.802	18.860	0.00	0.00
ATOM	7859	HG12	VAL	X	516	40.905	30.338	19.615	0.00	0.00
ATOM	7860	HG13	VAL	X	516	41.163	31.916	20.400	0.00	0.00
ATOM	7861	CG2	VAL	X	516	42.249	33.154	18.124	0.00	0.00
ATOM	7862	HG21	VAL	X	516	42.903	33.176	17.253	0.00	0.00
ATOM	7863	HG22	VAL	X	516	41.202	33.319	17.870	0.00	0.00
ATOM	7864	HG23	VAL	X	516	42.613	33.808	18.917	0.00	0.00
ATOM	7865	C	VAL	X	516	43.826	29.994	19.851	0.00	0.00
ATOM	7866	O	VAL	X	516	44.370	29.143	19.131	0.00	0.00
ATOM	7867	N	ARG	X	517	43.500	29.728	21.109	0.00	0.00
ATOM	7868	H	ARG	X	517	43.063	30.475	21.630	0.00	0.00
ATOM	7869	CA	ARG	X	517	43.424	28.394	21.846	0.00	0.00
ATOM	7870	HA	ARG	X	517	43.522	27.601	21.104	0.00	0.00
ATOM	7871	CB	ARG	X	517	44.598	28.137	22.788	0.00	0.00
ATOM	7872	HB2	ARG	X	517	44.697	29.000	23.447	0.00	0.00
ATOM	7873	HB3	ARG	X	517	44.414	27.152	23.217	0.00	0.00
ATOM	7874	CG	ARG	X	517	45.887	28.146	21.916	0.00	0.00
ATOM	7875	HG2	ARG	X	517	45.733	27.487	21.062	0.00	0.00
ATOM	7876	HG3	ARG	X	517	45.936	29.137	21.465	0.00	0.00
ATOM	7877	CD	ARG	X	517	47.172	27.673	22.705	0.00	0.00

ATOM	7878	HD2	ARG	X	517	47.125	27.876	23.775	0.00	0.00
ATOM	7879	HD3	ARG	X	517	47.136	26.586	22.643	0.00	0.00
ATOM	7880	NE	ARG	X	517	48.421	28.113	21.978	0.00	0.00
ATOM	7881	HE	ARG	X	517	48.449	27.997	20.975	0.00	0.00
ATOM	7882	CZ	ARG	X	517	49.447	28.699	22.633	0.00	0.00
ATOM	7883	NH1	ARG	X	517	49.618	28.778	23.888	0.00	0.00
ATOM	7884	HH11	ARG	X	517	49.027	28.247	24.510	0.00	0.00
ATOM	7885	HH12	ARG	X	517	50.346	29.373	24.256	0.00	0.00
ATOM	7886	NH2	ARG	X	517	50.348	29.191	21.805	0.00	0.00
ATOM	7887	HH21	ARG	X	517	50.223	29.057	20.812	0.00	0.00
ATOM	7888	HH22	ARG	X	517	51.247	29.524	22.121	0.00	0.00
ATOM	7889	C	ARG	X	517	42.113	28.121	22.527	0.00	0.00
ATOM	7890	O	ARG	X	517	41.308	29.028	22.677	0.00	0.00
ATOM	7891	N	ARG	X	518	41.848	26.885	22.947	0.00	0.00
ATOM	7892	H	ARG	X	518	42.465	26.143	22.645	0.00	0.00
ATOM	7893	CA	ARG	X	518	40.465	26.470	23.284	0.00	0.00
ATOM	7894	HA	ARG	X	518	39.847	27.251	23.727	0.00	0.00
ATOM	7895	CB	ARG	X	518	39.691	26.077	22.003	0.00	0.00
ATOM	7896	HB2	ARG	X	518	40.313	25.338	21.497	0.00	0.00
ATOM	7897	HB3	ARG	X	518	38.715	25.728	22.340	0.00	0.00
ATOM	7898	CG	ARG	X	518	39.437	27.289	21.074	0.00	0.00
ATOM	7899	HG2	ARG	X	518	39.027	28.114	21.656	0.00	0.00
ATOM	7900	HG3	ARG	X	518	40.396	27.637	20.692	0.00	0.00
ATOM	7901	CD	ARG	X	518	38.447	26.940	19.932	0.00	0.00
ATOM	7902	HD2	ARG	X	518	38.941	26.122	19.408	0.00	0.00
ATOM	7903	HD3	ARG	X	518	37.478	26.665	20.348	0.00	0.00
ATOM	7904	NE	ARG	X	518	38.316	28.073	19.077	0.00	0.00
ATOM	7905	HE	ARG	X	518	37.402	28.490	19.179	0.00	0.00
ATOM	7906	CZ	ARG	X	518	39.264	28.659	18.307	0.00	0.00
ATOM	7907	NH1	ARG	X	518	40.426	28.126	18.059	0.00	0.00
ATOM	7908	HH11	ARG	X	518	40.642	27.283	18.572	0.00	0.00
ATOM	7909	HH12	ARG	X	518	41.049	28.494	17.354	0.00	0.00
ATOM	7910	NH2	ARG	X	518	38.838	29.725	17.725	0.00	0.00
ATOM	7911	HH21	ARG	X	518	37.990	30.151	18.071	0.00	0.00
ATOM	7912	HH22	ARG	X	518	39.436	30.153	17.032	0.00	0.00
ATOM	7913	C	ARG	X	518	40.545	25.367	24.295	0.00	0.00
ATOM	7914	O	ARG	X	518	41.393	24.456	24.113	0.00	0.00
ATOM	7915	N	GLY	X	519	39.591	25.319	25.251	0.00	0.00
ATOM	7916	H	GLY	X	519	38.832	25.985	25.233	0.00	0.00
ATOM	7917	CA	GLY	X	519	39.673	24.566	26.511	0.00	0.00
ATOM	7918	HA2	GLY	X	519	38.657	24.433	26.995	0.00	0.00
ATOM	7919	HA3	GLY	X	519	40.058	23.636	26.185	0.00	0.00
ATOM	7920	C	GLY	X	519	40.620	25.187	27.503	0.00	0.00
ATOM	7921	O	GLY	X	519	41.495	24.481	27.953	0.00	0.00
ATOM	7922	N	LEU	X	520	40.343	26.458	27.952	0.00	0.00
ATOM	7923	H	LEU	X	520	39.670	26.998	27.428	0.00	0.00
ATOM	7924	CA	LEU	X	520	41.115	27.177	28.949	0.00	0.00
ATOM	7925	HA	LEU	X	520	42.025	27.466	28.423	0.00	0.00
ATOM	7926	CB	LEU	X	520	40.321	28.457	29.342	0.00	0.00
ATOM	7927	HB2	LEU	X	520	40.298	29.059	28.433	0.00	0.00
ATOM	7928	HB3	LEU	X	520	39.296	28.219	29.625	0.00	0.00
ATOM	7929	CG	LEU	X	520	40.878	29.342	30.441	0.00	0.00
ATOM	7930	HG	LEU	X	520	41.079	28.809	31.370	0.00	0.00
ATOM	7931	CD1	LEU	X	520	42.214	29.989	29.967	0.00	0.00
ATOM	7932	HD11	LEU	X	520	43.052	29.293	29.927	0.00	0.00
ATOM	7933	HD12	LEU	X	520	42.009	30.463	29.006	0.00	0.00
ATOM	7934	HD13	LEU	X	520	42.571	30.684	30.728	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.874	30.576	30.653	0.00	0.00
ATOM	7936	HD21	LEU	X	520	39.670	31.099	29.719	0.00	0.00
ATOM	7937	HD22	LEU	X	520	38.918	30.240	31.056	0.00	0.00
ATOM	7938	HD23	LEU	X	520	40.329	31.182	31.436	0.00	0.00
ATOM	7939	C	LEU	X	520	41.377	26.265	30.179	0.00	0.00
ATOM	7940	O	LEU	X	520	40.461	25.934	30.970	0.00	0.00
ATOM	7941	N	ARG	X	521	42.649	25.855	30.313	0.00	0.00
ATOM	7942	H	ARG	X	521	43.276	26.269	29.638	0.00	0.00
ATOM	7943	CA	ARG	X	521	43.240	24.967	31.381	0.00	0.00
ATOM	7944	HA	ARG	X	521	44.188	24.630	30.961	0.00	0.00
ATOM	7945	CB	ARG	X	521	43.558	25.830	32.654	0.00	0.00
ATOM	7946	HB2	ARG	X	521	43.910	26.842	32.456	0.00	0.00
ATOM	7947	HB3	ARG	X	521	42.591	25.884	33.153	0.00	0.00

ATOM	7948	CG	ARG	X	521	44.660	25.167	33.567	0.00	0.00
ATOM	7949	HG2	ARG	X	521	44.701	25.822	34.437	0.00	0.00
ATOM	7950	HG3	ARG	X	521	44.361	24.134	33.745	0.00	0.00
ATOM	7951	CD	ARG	X	521	46.069	25.141	32.979	0.00	0.00
ATOM	7952	HD2	ARG	X	521	46.003	24.517	32.087	0.00	0.00
ATOM	7953	HD3	ARG	X	521	46.303	26.194	32.824	0.00	0.00
ATOM	7954	NE	ARG	X	521	47.109	24.610	33.929	0.00	0.00
ATOM	7955	HE	ARG	X	521	46.891	24.642	34.914	0.00	0.00
ATOM	7956	CZ	ARG	X	521	48.368	24.253	33.626	0.00	0.00
ATOM	7957	NH1	ARG	X	521	48.855	24.156	32.393	0.00	0.00
ATOM	7958	HH11	ARG	X	521	48.265	24.568	31.684	0.00	0.00
ATOM	7959	HH12	ARG	X	521	49.793	23.903	32.116	0.00	0.00
ATOM	7960	NH2	ARG	X	521	48.995	23.836	34.697	0.00	0.00
ATOM	7961	HH21	ARG	X	521	48.568	23.941	35.606	0.00	0.00
ATOM	7962	HH22	ARG	X	521	49.968	23.565	34.717	0.00	0.00
ATOM	7963	C	ARG	X	521	42.516	23.612	31.631	0.00	0.00
ATOM	7964	O	ARG	X	521	42.599	22.968	32.667	0.00	0.00
ATOM	7965	N	ALA	X	522	41.812	23.099	30.679	0.00	0.00
ATOM	7966	H	ALA	X	522	41.825	23.578	29.789	0.00	0.00
ATOM	7967	CA	ALA	X	522	40.797	22.051	30.893	0.00	0.00
ATOM	7968	HA	ALA	X	522	40.026	22.385	31.587	0.00	0.00
ATOM	7969	CB	ALA	X	522	40.071	21.810	29.547	0.00	0.00
ATOM	7970	HB1	ALA	X	522	40.736	21.246	28.892	0.00	0.00
ATOM	7971	HB2	ALA	X	522	39.150	21.240	29.672	0.00	0.00
ATOM	7972	HB3	ALA	X	522	39.846	22.780	29.103	0.00	0.00
ATOM	7973	C	ALA	X	522	41.392	20.799	31.458	0.00	0.00
ATOM	7974	O	ALA	X	522	40.744	20.168	32.302	0.00	0.00
ATOM	7975	N	GLN	X	523	42.627	20.377	31.033	0.00	0.00
ATOM	7976	H	GLN	X	523	43.205	21.004	30.492	0.00	0.00
ATOM	7977	CA	GLN	X	523	43.297	19.157	31.319	0.00	0.00
ATOM	7978	HA	GLN	X	523	42.644	18.325	31.056	0.00	0.00
ATOM	7979	CB	GLN	X	523	44.535	19.196	30.338	0.00	0.00
ATOM	7980	HB2	GLN	X	523	44.683	18.204	29.910	0.00	0.00
ATOM	7981	HB3	GLN	X	523	44.234	19.719	29.430	0.00	0.00
ATOM	7982	CG	GLN	X	523	45.971	19.704	30.642	0.00	0.00
ATOM	7983	HG2	GLN	X	523	46.073	19.352	31.669	0.00	0.00
ATOM	7984	HG3	GLN	X	523	46.739	19.188	30.066	0.00	0.00
ATOM	7985	CD	GLN	X	523	46.100	21.193	30.569	0.00	0.00
ATOM	7986	OE1	GLN	X	523	45.128	21.970	30.632	0.00	0.00
ATOM	7987	NE2	GLN	X	523	47.337	21.682	30.344	0.00	0.00
ATOM	7988	HE21	GLN	X	523	47.402	22.663	30.577	0.00	0.00
ATOM	7989	HE22	GLN	X	523	48.127	21.054	30.303	0.00	0.00
ATOM	7990	C	GLN	X	523	43.730	19.095	32.741	0.00	0.00
ATOM	7991	O	GLN	X	523	43.948	17.995	33.211	0.00	0.00
ATOM	7992	N	ALA	X	524	43.782	20.187	33.469	0.00	0.00
ATOM	7993	H	ALA	X	524	43.504	21.023	32.975	0.00	0.00
ATOM	7994	CA	ALA	X	524	44.236	20.284	34.829	0.00	0.00
ATOM	7995	HA	ALA	X	524	44.462	19.315	35.274	0.00	0.00
ATOM	7996	CB	ALA	X	524	45.609	21.109	34.726	0.00	0.00
ATOM	7997	HB1	ALA	X	524	46.313	20.882	35.527	0.00	0.00
ATOM	7998	HB2	ALA	X	524	46.168	21.001	33.797	0.00	0.00
ATOM	7999	HB3	ALA	X	524	45.416	22.170	34.891	0.00	0.00
ATOM	8000	C	ALA	X	524	43.176	20.857	35.829	0.00	0.00
ATOM	8001	O	ALA	X	524	43.187	20.403	36.990	0.00	0.00
ATOM	8002	N	CYX	X	525	42.405	21.781	35.409	0.00	0.00
ATOM	8003	H	CYX	X	525	42.676	22.314	34.594	0.00	0.00
ATOM	8004	CA	CYX	X	525	41.429	22.375	36.337	0.00	0.00
ATOM	8005	HA	CYX	X	525	41.904	22.368	37.318	0.00	0.00
ATOM	8006	CB	CYX	X	525	41.121	23.838	35.991	0.00	0.00
ATOM	8007	HB2	CYX	X	525	40.653	23.863	35.007	0.00	0.00
ATOM	8008	HB3	CYX	X	525	40.300	24.254	36.576	0.00	0.00
ATOM	8009	SG	CYX	X	525	42.446	25.127	36.036	0.00	0.00
ATOM	8010	C	CYX	X	525	40.176	21.505	36.371	0.00	0.00
ATOM	8011	O	CYX	X	525	39.551	21.469	37.407	0.00	0.00
ATOM	8012	N	ALA	X	526	39.841	20.759	35.289	0.00	0.00
ATOM	8013	H	ALA	X	526	40.377	20.728	34.434	0.00	0.00
ATOM	8014	CA	ALA	X	526	38.765	19.832	35.515	0.00	0.00
ATOM	8015	HA	ALA	X	526	37.864	20.325	35.879	0.00	0.00
ATOM	8016	CB	ALA	X	526	38.382	19.292	34.154	0.00	0.00
ATOM	8017	HB1	ALA	X	526	38.142	20.008	33.368	0.00	0.00

ATOM	8018	HB2	ALA	X	526	39.034	18.571	33.661	0.00	0.00
ATOM	8019	HB3	ALA	X	526	37.514	18.655	34.322	0.00	0.00
ATOM	8020	C	ALA	X	526	39.155	18.703	36.492	0.00	0.00
ATOM	8021	O	ALA	X	526	38.300	18.301	37.291	0.00	0.00
ATOM	8022	N	PHE	X	527	40.432	18.285	36.546	0.00	0.00
ATOM	8023	H	PHE	X	527	40.948	18.401	35.685	0.00	0.00
ATOM	8024	CA	PHE	X	527	41.034	17.529	37.671	0.00	0.00
ATOM	8025	HA	PHE	X	527	40.411	16.636	37.729	0.00	0.00
ATOM	8026	CB	PHE	X	527	42.472	17.086	37.274	0.00	0.00
ATOM	8027	HB2	PHE	X	527	42.411	16.328	36.493	0.00	0.00
ATOM	8028	HB3	PHE	X	527	43.017	17.914	36.820	0.00	0.00
ATOM	8029	CG	PHE	X	527	43.237	16.495	38.413	0.00	0.00
ATOM	8030	CD1	PHE	X	527	43.124	15.081	38.606	0.00	0.00
ATOM	8031	HD1	PHE	X	527	42.516	14.522	37.910	0.00	0.00
ATOM	8032	CE1	PHE	X	527	43.727	14.481	39.625	0.00	0.00
ATOM	8033	HE1	PHE	X	527	43.700	13.425	39.851	0.00	0.00
ATOM	8034	CZ	PHE	X	527	44.502	15.272	40.529	0.00	0.00
ATOM	8035	HZ	PHE	X	527	45.083	14.889	41.354	0.00	0.00
ATOM	8036	CE2	PHE	X	527	44.548	16.646	40.415	0.00	0.00
ATOM	8037	HE2	PHE	X	527	45.087	17.255	41.126	0.00	0.00
ATOM	8038	CD2	PHE	X	527	43.915	17.290	39.325	0.00	0.00
ATOM	8039	HD2	PHE	X	527	43.999	18.366	39.305	0.00	0.00
ATOM	8040	C	PHE	X	527	40.731	18.247	39.042	0.00	0.00
ATOM	8041	O	PHE	X	527	40.013	17.682	39.821	0.00	0.00
ATOM	8042	N	TRP	X	528	41.287	19.447	39.298	0.00	0.00
ATOM	8043	H	TRP	X	528	41.791	19.866	38.530	0.00	0.00
ATOM	8044	CA	TRP	X	528	41.088	20.223	40.504	0.00	0.00
ATOM	8045	HA	TRP	X	528	41.540	19.657	41.318	0.00	0.00
ATOM	8046	CB	TRP	X	528	41.864	21.544	40.605	0.00	0.00
ATOM	8047	HB2	TRP	X	528	41.738	22.210	39.751	0.00	0.00
ATOM	8048	HB3	TRP	X	528	41.415	21.968	41.503	0.00	0.00
ATOM	8049	CG	TRP	X	528	43.325	21.358	40.888	0.00	0.00
ATOM	8050	CD1	TRP	X	528	44.373	21.668	40.098	0.00	0.00
ATOM	8051	HD1	TRP	X	528	44.249	21.920	39.055	0.00	0.00
ATOM	8052	NE1	TRP	X	528	45.463	21.531	40.804	0.00	0.00
ATOM	8053	HE1	TRP	X	528	46.373	21.751	40.424	0.00	0.00
ATOM	8054	CE2	TRP	X	528	45.305	21.222	42.106	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	46.100	21.152	43.203	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	47.138	21.442	43.146	0.00	0.00
ATOM	8057	CH2	TRP	X	528	45.521	20.880	44.495	0.00	0.00
ATOM	8058	HH2	TRP	X	528	46.161	21.040	45.349	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	44.182	20.535	44.597	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	43.752	20.393	45.578	0.00	0.00
ATOM	8061	CE3	TRP	X	528	43.348	20.696	43.420	0.00	0.00
ATOM	8062	HE3	TRP	X	528	42.292	20.477	43.374	0.00	0.00
ATOM	8063	CD2	TRP	X	528	43.911	21.063	42.191	0.00	0.00
ATOM	8064	C	TRP	X	528	39.557	20.446	40.901	0.00	0.00
ATOM	8065	O	TRP	X	528	39.318	20.800	42.057	0.00	0.00
ATOM	8066	N	ASN	X	529	38.567	20.180	40.017	0.00	0.00
ATOM	8067	H	ASN	X	529	38.823	20.042	39.050	0.00	0.00
ATOM	8068	CA	ASN	X	529	37.125	20.487	40.344	0.00	0.00
ATOM	8069	HA	ASN	X	529	37.057	20.801	41.385	0.00	0.00
ATOM	8070	CB	ASN	X	529	36.771	21.705	39.441	0.00	0.00
ATOM	8071	HB2	ASN	X	529	37.032	21.614	38.387	0.00	0.00
ATOM	8072	HB3	ASN	X	529	35.696	21.809	39.588	0.00	0.00
ATOM	8073	CG	ASN	X	529	37.319	22.982	40.067	0.00	0.00
ATOM	8074	OD1	ASN	X	529	36.698	23.634	40.908	0.00	0.00
ATOM	8075	ND2	ASN	X	529	38.583	23.248	39.849	0.00	0.00
ATOM	8076	HD21	ASN	X	529	38.944	23.886	40.544	0.00	0.00
ATOM	8077	HD22	ASN	X	529	39.188	22.672	39.282	0.00	0.00
ATOM	8078	C	ASN	X	529	36.173	19.241	40.110	0.00	0.00
ATOM	8079	O	ASN	X	529	35.069	19.202	40.674	0.00	0.00
ATOM	8080	N	ARG	X	530	36.628	18.225	39.386	0.00	0.00
ATOM	8081	H	ARG	X	530	37.555	18.295	38.991	0.00	0.00
ATOM	8082	CA	ARG	X	530	35.982	16.977	39.074	0.00	0.00
ATOM	8083	HA	ARG	X	530	35.004	17.165	39.518	0.00	0.00
ATOM	8084	CB	ARG	X	530	35.765	16.736	37.567	0.00	0.00
ATOM	8085	HB2	ARG	X	530	36.704	16.335	37.186	0.00	0.00
ATOM	8086	HB3	ARG	X	530	35.089	15.882	37.539	0.00	0.00
ATOM	8087	CG	ARG	X	530	35.216	17.828	36.713	0.00	0.00

ATOM	8088	HG2	ARG	X	530	34.342	18.301	37.161	0.00	0.00
ATOM	8089	HG3	ARG	X	530	35.923	18.607	36.427	0.00	0.00
ATOM	8090	CD	ARG	X	530	34.586	17.315	35.428	0.00	0.00
ATOM	8091	HD2	ARG	X	530	35.334	16.728	34.895	0.00	0.00
ATOM	8092	HD3	ARG	X	530	33.722	16.681	35.630	0.00	0.00
ATOM	8093	NE	ARG	X	530	34.077	18.319	34.468	0.00	0.00
ATOM	8094	HE	ARG	X	530	34.348	19.279	34.627	0.00	0.00
ATOM	8095	CZ	ARG	X	530	33.294	18.172	33.415	0.00	0.00
ATOM	8096	NH1	ARG	X	530	33.021	16.990	32.935	0.00	0.00
ATOM	8097	HH11	ARG	X	530	33.408	16.158	33.356	0.00	0.00
ATOM	8098	HH12	ARG	X	530	32.433	16.912	32.117	0.00	0.00
ATOM	8099	NH2	ARG	X	530	32.787	19.265	32.814	0.00	0.00
ATOM	8100	HH21	ARG	X	530	32.749	20.156	33.289	0.00	0.00
ATOM	8101	HH22	ARG	X	530	32.373	19.085	31.910	0.00	0.00
ATOM	8102	C	ARG	X	530	36.555	15.742	39.707	0.00	0.00
ATOM	8103	O	ARG	X	530	35.811	14.854	40.141	0.00	0.00
ATOM	8104	N	PHE	X	531	37.859	15.709	39.781	0.00	0.00
ATOM	8105	H	PHE	X	531	38.381	16.513	39.462	0.00	0.00
ATOM	8106	CA	PHE	X	531	38.628	14.516	40.178	0.00	0.00
ATOM	8107	HA	PHE	X	531	37.976	13.643	40.201	0.00	0.00
ATOM	8108	CB	PHE	X	531	39.862	14.325	39.276	0.00	0.00
ATOM	8109	HB2	PHE	X	531	39.652	14.575	38.236	0.00	0.00
ATOM	8110	HB3	PHE	X	531	40.627	15.006	39.649	0.00	0.00
ATOM	8111	CG	PHE	X	531	40.363	12.871	39.252	0.00	0.00
ATOM	8112	CD1	PHE	X	531	41.050	12.302	40.356	0.00	0.00
ATOM	8113	HD1	PHE	X	531	41.103	12.872	41.272	0.00	0.00
ATOM	8114	CE1	PHE	X	531	41.550	10.965	40.263	0.00	0.00
ATOM	8115	HE1	PHE	X	531	41.990	10.453	41.106	0.00	0.00
ATOM	8116	CZ	PHE	X	531	41.541	10.277	39.055	0.00	0.00
ATOM	8117	HZ	PHE	X	531	42.178	9.419	38.894	0.00	0.00
ATOM	8118	CE2	PHE	X	531	40.768	10.823	37.973	0.00	0.00
ATOM	8119	HE2	PHE	X	531	40.589	10.297	37.047	0.00	0.00
ATOM	8120	CD2	PHE	X	531	40.243	12.144	38.080	0.00	0.00
ATOM	8121	HD2	PHE	X	531	39.559	12.535	37.342	0.00	0.00
ATOM	8122	C	PHE	X	531	38.977	14.643	41.702	0.00	0.00
ATOM	8123	O	PHE	X	531	38.610	13.872	42.513	0.00	0.00
ATOM	8124	N	LEU	X	532	39.641	15.757	41.978	0.00	0.00
ATOM	8125	H	LEU	X	532	39.913	16.389	41.238	0.00	0.00
ATOM	8126	CA	LEU	X	532	40.175	15.955	43.259	0.00	0.00
ATOM	8127	HA	LEU	X	532	40.587	14.968	43.470	0.00	0.00
ATOM	8128	CB	LEU	X	532	41.228	16.985	43.033	0.00	0.00
ATOM	8129	HB2	LEU	X	532	41.696	16.721	42.085	0.00	0.00
ATOM	8130	HB3	LEU	X	532	40.766	17.927	42.738	0.00	0.00
ATOM	8131	CG	LEU	X	532	42.305	17.238	44.066	0.00	0.00
ATOM	8132	HG	LEU	X	532	43.063	17.851	43.578	0.00	0.00
ATOM	8133	CD1	LEU	X	532	41.752	17.820	45.383	0.00	0.00
ATOM	8134	HD11	LEU	X	532	42.604	17.881	46.059	0.00	0.00
ATOM	8135	HD12	LEU	X	532	41.463	18.853	45.191	0.00	0.00
ATOM	8136	HD13	LEU	X	532	40.914	17.319	45.868	0.00	0.00
ATOM	8137	CD2	LEU	X	532	42.952	15.926	44.465	0.00	0.00
ATOM	8138	HD21	LEU	X	532	43.791	16.257	45.077	0.00	0.00
ATOM	8139	HD22	LEU	X	532	42.251	15.495	45.180	0.00	0.00
ATOM	8140	HD23	LEU	X	532	43.273	15.292	43.639	0.00	0.00
ATOM	8141	C	LEU	X	532	39.172	16.207	44.393	0.00	0.00
ATOM	8142	O	LEU	X	532	39.272	15.606	45.448	0.00	0.00
ATOM	8143	N	PRO	X	533	38.095	17.031	44.228	0.00	0.00
ATOM	8144	CD	PRO	X	533	37.718	17.969	43.179	0.00	0.00
ATOM	8145	HD2	PRO	X	533	37.675	17.487	42.202	0.00	0.00
ATOM	8146	HD3	PRO	X	533	38.405	18.815	43.151	0.00	0.00
ATOM	8147	CG	PRO	X	533	36.317	18.536	43.563	0.00	0.00
ATOM	8148	HG2	PRO	X	533	35.539	17.838	43.252	0.00	0.00
ATOM	8149	HG3	PRO	X	533	36.138	19.552	43.211	0.00	0.00
ATOM	8150	CB	PRO	X	533	36.320	18.486	45.117	0.00	0.00
ATOM	8151	HB2	PRO	X	533	35.322	18.455	45.554	0.00	0.00
ATOM	8152	HB3	PRO	X	533	36.830	19.377	45.483	0.00	0.00
ATOM	8153	CA	PRO	X	533	37.104	17.153	45.353	0.00	0.00
ATOM	8154	HA	PRO	X	533	37.732	17.444	46.195	0.00	0.00
ATOM	8155	C	PRO	X	533	36.353	15.866	45.622	0.00	0.00
ATOM	8156	O	PRO	X	533	35.800	15.693	46.718	0.00	0.00
ATOM	8157	N	LYS	X	534	36.167	15.044	44.583	0.00	0.00

ATOM	8158	H	LYS	X	534	36.667	15.192	43.718	0.00	0.00
ATOM	8159	CA	LYS	X	534	35.598	13.665	44.739	0.00	0.00
ATOM	8160	HA	LYS	X	534	34.692	13.759	45.338	0.00	0.00
ATOM	8161	CB	LYS	X	534	35.215	13.185	43.336	0.00	0.00
ATOM	8162	HB2	LYS	X	534	34.325	13.716	42.996	0.00	0.00
ATOM	8163	HB3	LYS	X	534	35.955	13.482	42.593	0.00	0.00
ATOM	8164	CG	LYS	X	534	34.958	11.673	43.276	0.00	0.00
ATOM	8165	HG2	LYS	X	534	35.876	11.108	43.439	0.00	0.00
ATOM	8166	HG3	LYS	X	534	34.249	11.341	44.036	0.00	0.00
ATOM	8167	CD	LYS	X	534	34.270	11.306	41.951	0.00	0.00
ATOM	8168	HD2	LYS	X	534	33.282	11.762	42.004	0.00	0.00
ATOM	8169	HD3	LYS	X	534	34.860	11.702	41.124	0.00	0.00
ATOM	8170	CE	LYS	X	534	34.202	9.757	41.923	0.00	0.00
ATOM	8171	HE2	LYS	X	534	33.924	9.698	40.871	0.00	0.00
ATOM	8172	HE3	LYS	X	534	35.194	9.340	42.093	0.00	0.00
ATOM	8173	NZ	LYS	X	534	33.149	9.144	42.763	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	33.139	8.134	42.743	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	33.202	9.435	43.729	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	32.233	9.462	42.480	0.00	0.00
ATOM	8177	C	LYS	X	534	36.435	12.660	45.569	0.00	0.00
ATOM	8178	O	LYS	X	534	35.919	11.696	46.168	0.00	0.00
ATOM	8179	N	LEU	X	535	37.710	12.994	45.719	0.00	0.00
ATOM	8180	H	LEU	X	535	38.031	13.820	45.236	0.00	0.00
ATOM	8181	CA	LEU	X	535	38.636	12.367	46.625	0.00	0.00
ATOM	8182	HA	LEU	X	535	38.254	11.351	46.725	0.00	0.00
ATOM	8183	CB	LEU	X	535	40.005	12.241	45.884	0.00	0.00
ATOM	8184	HB2	LEU	X	535	40.238	13.211	45.445	0.00	0.00
ATOM	8185	HB3	LEU	X	535	40.800	11.984	46.583	0.00	0.00
ATOM	8186	CG	LEU	X	535	40.171	11.228	44.750	0.00	0.00
ATOM	8187	HG	LEU	X	535	39.425	11.594	44.044	0.00	0.00
ATOM	8188	CD1	LEU	X	535	41.576	11.463	44.043	0.00	0.00
ATOM	8189	HD11	LEU	X	535	41.241	12.151	43.267	0.00	0.00
ATOM	8190	HD12	LEU	X	535	42.265	11.998	44.695	0.00	0.00
ATOM	8191	HD13	LEU	X	535	41.986	10.570	43.571	0.00	0.00
ATOM	8192	CD2	LEU	X	535	39.980	9.742	45.124	0.00	0.00
ATOM	8193	HD21	LEU	X	535	40.767	9.269	45.711	0.00	0.00
ATOM	8194	HD22	LEU	X	535	39.047	9.600	45.669	0.00	0.00
ATOM	8195	HD23	LEU	X	535	40.116	9.107	44.249	0.00	0.00
ATOM	8196	C	LEU	X	535	38.657	12.953	48.045	0.00	0.00
ATOM	8197	O	LEU	X	535	38.657	12.234	49.023	0.00	0.00
ATOM	8198	N	LEU	X	536	38.746	14.298	48.144	0.00	0.00
ATOM	8199	H	LEU	X	536	38.755	14.802	47.269	0.00	0.00
ATOM	8200	CA	LEU	X	536	38.690	15.194	49.354	0.00	0.00
ATOM	8201	HA	LEU	X	536	39.501	14.908	50.024	0.00	0.00
ATOM	8202	CB	LEU	X	536	38.785	16.640	48.870	0.00	0.00
ATOM	8203	HB2	LEU	X	536	39.647	16.730	48.210	0.00	0.00
ATOM	8204	HB3	LEU	X	536	37.892	16.893	48.298	0.00	0.00
ATOM	8205	CG	LEU	X	536	39.008	17.584	50.046	0.00	0.00
ATOM	8206	HG	LEU	X	536	38.419	17.280	50.912	0.00	0.00
ATOM	8207	CD1	LEU	X	536	40.432	17.565	50.466	0.00	0.00
ATOM	8208	HD11	LEU	X	536	40.983	18.101	49.693	0.00	0.00
ATOM	8209	HD12	LEU	X	536	40.533	18.077	51.423	0.00	0.00
ATOM	8210	HD13	LEU	X	536	40.739	16.520	50.516	0.00	0.00
ATOM	8211	CD2	LEU	X	536	38.394	19.037	49.864	0.00	0.00
ATOM	8212	HD21	LEU	X	536	37.308	19.022	49.771	0.00	0.00
ATOM	8213	HD22	LEU	X	536	38.632	19.652	50.732	0.00	0.00
ATOM	8214	HD23	LEU	X	536	38.870	19.367	48.940	0.00	0.00
ATOM	8215	C	LEU	X	536	37.393	14.882	50.215	0.00	0.00
ATOM	8216	O	LEU	X	536	37.372	14.922	51.477	0.00	0.00
ATOM	8217	N	SER	X	537	36.328	14.658	49.505	0.00	0.00
ATOM	8218	H	SER	X	537	36.268	14.851	48.516	0.00	0.00
ATOM	8219	CA	SER	X	537	35.134	14.019	50.021	0.00	0.00
ATOM	8220	HA	SER	X	537	34.751	14.615	50.849	0.00	0.00
ATOM	8221	CB	SER	X	537	34.038	14.211	49.002	0.00	0.00
ATOM	8222	HB2	SER	X	537	33.139	13.857	49.506	0.00	0.00
ATOM	8223	HB3	SER	X	537	33.892	15.213	48.598	0.00	0.00
ATOM	8224	OG	SER	X	537	34.191	13.375	47.891	0.00	0.00
ATOM	8225	HG	SER	X	537	33.383	13.412	47.375	0.00	0.00
ATOM	8226	C	SER	X	537	35.376	12.572	50.359	0.00	0.00
ATOM	8227	O	SER	X	537	35.211	12.300	51.554	0.00	0.00

ATOM	8228	N	ALA	X	538	35.859	11.616	49.532	0.00	0.00
ATOM	8229	H	ALA	X	538	35.730	11.776	48.543	0.00	0.00
ATOM	8230	CA	ALA	X	538	36.116	10.215	49.907	0.00	0.00
ATOM	8231	HA	ALA	X	538	35.203	9.889	50.407	0.00	0.00
ATOM	8232	CB	ALA	X	538	36.143	9.443	48.539	0.00	0.00
ATOM	8233	HB1	ALA	X	538	36.957	9.826	47.925	0.00	0.00
ATOM	8234	HB2	ALA	X	538	36.225	8.378	48.754	0.00	0.00
ATOM	8235	HB3	ALA	X	538	35.221	9.642	47.992	0.00	0.00
ATOM	8236	C	ALA	X	538	37.252	9.798	50.898	0.00	0.00
ATOM	8237	O	ALA	X	538	37.376	8.629	51.173	0.00	0.00
ATOM	8238	N	THR	X	539	37.972	10.772	51.435	0.00	0.00
ATOM	8239	H	THR	X	539	37.811	11.716	51.113	0.00	0.00
ATOM	8240	CA	THR	X	539	39.056	10.437	52.425	0.00	0.00
ATOM	8241	HA	THR	X	539	39.808	9.795	51.967	0.00	0.00
ATOM	8242	CB	THR	X	539	39.820	11.707	52.847	0.00	0.00
ATOM	8243	HB	THR	X	539	39.086	12.407	53.243	0.00	0.00
ATOM	8244	CG2	THR	X	539	40.959	11.480	53.774	0.00	0.00
ATOM	8245	HG21	THR	X	539	41.381	12.477	53.895	0.00	0.00
ATOM	8246	HG22	THR	X	539	40.638	11.159	54.766	0.00	0.00
ATOM	8247	HG23	THR	X	539	41.666	10.846	53.238	0.00	0.00
ATOM	8248	OG1	THR	X	539	40.375	12.354	51.699	0.00	0.00
ATOM	8249	HG1	THR	X	539	39.609	12.180	51.148	0.00	0.00
ATOM	8250	C	THR	X	539	38.535	9.716	53.664	0.00	0.00
ATOM	8251	O	THR	X	539	37.359	10.130	54.113	0.00	0.00
ATOM	8252	OXT	THR	X	539	39.094	8.765	54.212	0.00	0.00
ATOM	8253	C	LIG	X	540	55.485	35.655	53.306	0.00	0.00
ATOM	8254	C1	LIG	X	540	54.189	35.474	52.910	0.00	0.00
ATOM	8255	C2	LIG	X	540	53.682	36.174	51.808	0.00	0.00
ATOM	8256	C3	LIG	X	540	54.463	37.004	50.985	0.00	0.00
ATOM	8257	C4	LIG	X	540	55.762	37.189	51.414	0.00	0.00
ATOM	8258	C5	LIG	X	540	56.292	36.550	52.550	0.00	0.00
ATOM	8259	C6	LIG	X	540	57.703	36.695	52.900	0.00	0.00
ATOM	8260	N	LIG	X	540	57.935	37.678	53.987	0.00	0.00
ATOM	8261	C7	LIG	X	540	57.521	39.015	53.704	0.00	0.00
ATOM	8262	C8	LIG	X	540	58.480	39.729	52.788	0.00	0.00
ATOM	8263	O	LIG	X	540	59.739	39.804	53.446	0.00	0.00
ATOM	8264	C9	LIG	X	540	60.238	38.442	53.764	0.00	0.00
ATOM	8265	C10	LIG	X	540	59.254	37.697	54.652	0.00	0.00
ATOM	8266	O1	LIG	X	540	53.928	37.711	49.934	0.00	0.00
ATOM	8267	C11	LIG	X	540	54.669	38.564	49.016	0.00	0.00
ATOM	8268	O2	LIG	X	540	52.381	35.923	51.468	0.00	0.00
ATOM	8269	H	LIG	X	540	52.158	36.464	50.690	0.00	0.00
ATOM	8270	H1	LIG	X	540	55.897	35.175	54.190	0.00	0.00
ATOM	8271	H2	LIG	X	540	53.519	34.758	53.378	0.00	0.00
ATOM	8272	H3	LIG	X	540	56.364	37.918	50.880	0.00	0.00
ATOM	8273	H4	LIG	X	540	57.956	35.740	53.367	0.00	0.00
ATOM	8274	H5	LIG	X	540	58.466	36.824	52.128	0.00	0.00
ATOM	8275	H6	LIG	X	540	57.533	39.495	54.685	0.00	0.00
ATOM	8276	H7	LIG	X	540	56.473	38.990	53.393	0.00	0.00
ATOM	8277	H8	LIG	X	540	58.684	39.064	51.945	0.00	0.00
ATOM	8278	H9	LIG	X	540	58.108	40.691	52.427	0.00	0.00
ATOM	8279	H10	LIG	X	540	60.253	37.932	52.798	0.00	0.00
ATOM	8280	H11	LIG	X	540	61.286	38.512	54.069	0.00	0.00
ATOM	8281	H12	LIG	X	540	59.151	38.237	55.597	0.00	0.00
ATOM	8282	H13	LIG	X	540	59.618	36.683	54.833	0.00	0.00
ATOM	8283	H14	LIG	X	540	54.994	39.476	49.524	0.00	0.00
ATOM	8284	H15	LIG	X	540	54.076	38.788	48.125	0.00	0.00
ATOM	8285	H16	LIG	X	540	55.551	38.032	48.650	0.00	0.00
ATOM	8286	Na+	Na+	X	541	59.790	44.180	38.781	0.00	0.00
ATOM	8287	Na+	Na+	X	542	29.775	-3.616	57.669	0.00	0.00
ATOM	8288	Na+	Na+	X	543	60.918	44.715	34.957	0.00	0.00
ATOM	8289	Na+	Na+	X	544	38.146	22.824	53.519	0.00	0.00
ATOM	8290	Na+	Na+	X	545	78.084	-2.682	54.894	0.00	0.00
ATOM	8291	Na+	Na+	X	546	46.714	68.340	61.069	0.00	0.00
ATOM	8292	Na+	Na+	X	547	16.370	37.570	53.826	0.00	0.00

END

1-HCl

CRYST1	85.102	85.102	85.102	90.00	90.00	90.00	P 1			1
ATOM	1	N	ASP	X	1	38.363	76.245	30.332	0.00	0.00
ATOM	2	H1	ASP	X	1	38.871	76.609	29.538	0.00	0.00

ATOM	3	H2	ASP	X	1	37.420	76.535	30.549	0.00	0.00
ATOM	4	H3	ASP	X	1	38.472	75.241	30.329	0.00	0.00
ATOM	5	CA	ASP	X	1	39.238	76.571	31.516	0.00	0.00
ATOM	6	HA	ASP	X	1	40.313	76.523	31.340	0.00	0.00
ATOM	7	CB	ASP	X	1	39.083	78.047	31.899	0.00	0.00
ATOM	8	HB2	ASP	X	1	39.091	78.814	31.124	0.00	0.00
ATOM	9	HB3	ASP	X	1	38.128	78.232	32.389	0.00	0.00
ATOM	10	CG	ASP	X	1	40.213	78.483	32.823	0.00	0.00
ATOM	11	OD1	ASP	X	1	40.068	78.838	34.018	0.00	0.00
ATOM	12	OD2	ASP	X	1	41.420	78.555	32.330	0.00	0.00
ATOM	13	C	ASP	X	1	38.985	75.650	32.715	0.00	0.00
ATOM	14	O	ASP	X	1	39.957	75.350	33.366	0.00	0.00
ATOM	15	N	ALA	X	2	37.764	75.157	33.011	0.00	0.00
ATOM	16	H	ALA	X	2	36.963	75.572	32.557	0.00	0.00
ATOM	17	CA	ALA	X	2	37.508	74.369	34.193	0.00	0.00
ATOM	18	HA	ALA	X	2	38.077	74.724	35.052	0.00	0.00
ATOM	19	CB	ALA	X	2	35.969	74.648	34.540	0.00	0.00
ATOM	20	HB1	ALA	X	2	35.609	73.896	35.242	0.00	0.00
ATOM	21	HB2	ALA	X	2	35.841	75.664	34.914	0.00	0.00
ATOM	22	HB3	ALA	X	2	35.453	74.387	33.615	0.00	0.00
ATOM	23	C	ALA	X	2	37.823	72.842	34.025	0.00	0.00
ATOM	24	O	ALA	X	2	37.124	72.029	34.644	0.00	0.00
ATOM	25	N	GLU	X	3	38.732	72.479	33.193	0.00	0.00
ATOM	26	H	GLU	X	3	39.114	73.166	32.559	0.00	0.00
ATOM	27	CA	GLU	X	3	38.911	71.087	32.695	0.00	0.00
ATOM	28	HA	GLU	X	3	38.017	70.737	32.179	0.00	0.00
ATOM	29	CB	GLU	X	3	40.117	71.108	31.809	0.00	0.00
ATOM	30	HB2	GLU	X	3	40.910	71.662	32.311	0.00	0.00
ATOM	31	HB3	GLU	X	3	40.474	70.082	31.713	0.00	0.00
ATOM	32	CG	GLU	X	3	39.997	71.611	30.352	0.00	0.00
ATOM	33	HG2	GLU	X	3	40.926	71.513	29.792	0.00	0.00
ATOM	34	HG3	GLU	X	3	39.159	71.107	29.869	0.00	0.00
ATOM	35	CD	GLU	X	3	39.598	73.093	30.279	0.00	0.00
ATOM	36	OE1	GLU	X	3	38.357	73.299	30.137	0.00	0.00
ATOM	37	OE2	GLU	X	3	40.472	74.009	30.264	0.00	0.00
ATOM	38	C	GLU	X	3	39.201	70.078	33.882	0.00	0.00
ATOM	39	O	GLU	X	3	38.625	69.006	33.914	0.00	0.00
ATOM	40	N	LEU	X	4	40.021	70.411	34.909	0.00	0.00
ATOM	41	H	LEU	X	4	40.404	71.343	34.850	0.00	0.00
ATOM	42	CA	LEU	X	4	40.252	69.543	36.087	0.00	0.00
ATOM	43	HA	LEU	X	4	39.843	68.545	35.932	0.00	0.00
ATOM	44	CB	LEU	X	4	41.789	69.598	36.309	0.00	0.00
ATOM	45	HB2	LEU	X	4	42.136	70.631	36.277	0.00	0.00
ATOM	46	HB3	LEU	X	4	42.004	69.227	37.311	0.00	0.00
ATOM	47	CG	LEU	X	4	42.603	68.890	35.224	0.00	0.00
ATOM	48	HG	LEU	X	4	42.495	69.506	34.332	0.00	0.00
ATOM	49	CD1	LEU	X	4	44.095	69.010	35.568	0.00	0.00
ATOM	50	HD11	LEU	X	4	44.248	68.369	36.436	0.00	0.00
ATOM	51	HD12	LEU	X	4	44.722	68.743	34.717	0.00	0.00
ATOM	52	HD13	LEU	X	4	44.214	70.044	35.890	0.00	0.00
ATOM	53	CD2	LEU	X	4	42.142	67.479	34.835	0.00	0.00
ATOM	54	HD21	LEU	X	4	41.756	67.032	35.751	0.00	0.00
ATOM	55	HD22	LEU	X	4	41.424	67.546	34.018	0.00	0.00
ATOM	56	HD23	LEU	X	4	43.045	67.002	34.452	0.00	0.00
ATOM	57	C	LEU	X	4	39.380	69.903	37.326	0.00	0.00
ATOM	58	O	LEU	X	4	39.479	69.179	38.379	0.00	0.00
ATOM	59	N	LEU	X	5	38.558	70.919	37.291	0.00	0.00
ATOM	60	H	LEU	X	5	38.359	71.271	36.366	0.00	0.00
ATOM	61	CA	LEU	X	5	37.608	71.235	38.398	0.00	0.00
ATOM	62	HA	LEU	X	5	37.850	70.703	39.318	0.00	0.00
ATOM	63	CB	LEU	X	5	37.632	72.783	38.587	0.00	0.00
ATOM	64	HB2	LEU	X	5	38.618	73.215	38.418	0.00	0.00
ATOM	65	HB3	LEU	X	5	37.038	73.144	37.748	0.00	0.00
ATOM	66	CG	LEU	X	5	37.160	73.383	39.902	0.00	0.00
ATOM	67	HG	LEU	X	5	37.404	74.445	39.903	0.00	0.00
ATOM	68	CD1	LEU	X	5	35.586	73.249	40.092	0.00	0.00
ATOM	69	HD11	LEU	X	5	35.359	72.199	40.277	0.00	0.00
ATOM	70	HD12	LEU	X	5	35.297	73.887	40.928	0.00	0.00
ATOM	71	HD13	LEU	X	5	35.127	73.560	39.154	0.00	0.00
ATOM	72	CD2	LEU	X	5	37.839	72.657	40.994	0.00	0.00

ATOM	73	HD21	LEU	X	5	37.377	71.673	41.074	0.00	0.00
ATOM	74	HD22	LEU	X	5	38.859	72.432	40.681	0.00	0.00
ATOM	75	HD23	LEU	X	5	37.859	73.286	41.884	0.00	0.00
ATOM	76	C	LEU	X	5	36.216	70.686	37.952	0.00	0.00
ATOM	77	O	LEU	X	5	35.514	71.170	37.074	0.00	0.00
ATOM	78	N	VAL	X	6	35.859	69.553	38.619	0.00	0.00
ATOM	79	H	VAL	X	6	36.454	69.241	39.373	0.00	0.00
ATOM	80	CA	VAL	X	6	34.622	68.746	38.311	0.00	0.00
ATOM	81	HA	VAL	X	6	34.097	69.138	37.439	0.00	0.00
ATOM	82	CB	VAL	X	6	35.007	67.309	37.918	0.00	0.00
ATOM	83	HB	VAL	X	6	35.561	67.356	36.980	0.00	0.00
ATOM	84	CG1	VAL	X	6	35.805	66.456	38.969	0.00	0.00
ATOM	85	HG11	VAL	X	6	36.568	67.041	39.484	0.00	0.00
ATOM	86	HG12	VAL	X	6	35.020	66.096	39.634	0.00	0.00
ATOM	87	HG13	VAL	X	6	36.204	65.621	38.394	0.00	0.00
ATOM	88	CG2	VAL	X	6	33.858	66.486	37.582	0.00	0.00
ATOM	89	HG21	VAL	X	6	33.458	66.903	36.658	0.00	0.00
ATOM	90	HG22	VAL	X	6	34.270	65.521	37.289	0.00	0.00
ATOM	91	HG23	VAL	X	6	33.005	66.409	38.257	0.00	0.00
ATOM	92	C	VAL	X	6	33.736	68.764	39.575	0.00	0.00
ATOM	93	O	VAL	X	6	34.225	68.711	40.763	0.00	0.00
ATOM	94	N	THR	X	7	32.454	68.996	39.380	0.00	0.00
ATOM	95	H	THR	X	7	32.166	68.899	38.417	0.00	0.00
ATOM	96	CA	THR	X	7	31.380	68.961	40.409	0.00	0.00
ATOM	97	HA	THR	X	7	31.721	69.153	41.426	0.00	0.00
ATOM	98	CB	THR	X	7	30.421	70.051	39.992	0.00	0.00
ATOM	99	HB	THR	X	7	29.994	69.855	39.009	0.00	0.00
ATOM	100	CG2	THR	X	7	29.247	70.240	41.044	0.00	0.00
ATOM	101	HG21	THR	X	7	29.691	70.277	42.038	0.00	0.00
ATOM	102	HG22	THR	X	7	28.675	71.100	40.694	0.00	0.00
ATOM	103	HG23	THR	X	7	28.751	69.270	41.052	0.00	0.00
ATOM	104	OG1	THR	X	7	31.069	71.303	39.926	0.00	0.00
ATOM	105	HG1	THR	X	7	30.610	71.942	39.377	0.00	0.00
ATOM	106	C	THR	X	7	30.783	67.628	40.414	0.00	0.00
ATOM	107	O	THR	X	7	30.511	67.123	39.376	0.00	0.00
ATOM	108	N	VAL	X	8	30.697	66.985	41.578	0.00	0.00
ATOM	109	H	VAL	X	8	31.069	67.478	42.377	0.00	0.00
ATOM	110	CA	VAL	X	8	29.931	65.803	41.876	0.00	0.00
ATOM	111	HA	VAL	X	8	29.368	65.396	41.036	0.00	0.00
ATOM	112	CB	VAL	X	8	30.791	64.656	42.407	0.00	0.00
ATOM	113	HB	VAL	X	8	30.127	63.934	42.882	0.00	0.00
ATOM	114	CG1	VAL	X	8	31.668	64.104	41.307	0.00	0.00
ATOM	115	HG11	VAL	X	8	32.218	63.260	41.723	0.00	0.00
ATOM	116	HG12	VAL	X	8	30.995	63.817	40.499	0.00	0.00
ATOM	117	HG13	VAL	X	8	32.340	64.783	40.783	0.00	0.00
ATOM	118	CG2	VAL	X	8	31.682	65.031	43.627	0.00	0.00
ATOM	119	HG21	VAL	X	8	31.214	65.528	44.477	0.00	0.00
ATOM	120	HG22	VAL	X	8	32.027	64.133	44.140	0.00	0.00
ATOM	121	HG23	VAL	X	8	32.527	65.684	43.407	0.00	0.00
ATOM	122	C	VAL	X	8	28.845	66.158	42.887	0.00	0.00
ATOM	123	O	VAL	X	8	28.850	67.309	43.371	0.00	0.00
ATOM	124	N	ARG	X	9	27.862	65.301	43.207	0.00	0.00
ATOM	125	H	ARG	X	9	28.081	64.396	42.817	0.00	0.00
ATOM	126	CA	ARG	X	9	26.691	65.593	44.045	0.00	0.00
ATOM	127	HA	ARG	X	9	26.072	66.338	43.545	0.00	0.00
ATOM	128	CB	ARG	X	9	25.791	64.376	44.153	0.00	0.00
ATOM	129	HB2	ARG	X	9	25.592	64.036	43.136	0.00	0.00
ATOM	130	HB3	ARG	X	9	26.191	63.617	44.826	0.00	0.00
ATOM	131	CG	ARG	X	9	24.526	64.859	44.871	0.00	0.00
ATOM	132	HG2	ARG	X	9	24.658	64.777	45.950	0.00	0.00
ATOM	133	HG3	ARG	X	9	24.186	65.854	44.586	0.00	0.00
ATOM	134	CD	ARG	X	9	23.378	63.891	44.513	0.00	0.00
ATOM	135	HD2	ARG	X	9	23.146	63.924	43.449	0.00	0.00
ATOM	136	HD3	ARG	X	9	23.622	62.862	44.777	0.00	0.00
ATOM	137	NE	ARG	X	9	22.279	64.321	45.292	0.00	0.00
ATOM	138	HE	ARG	X	9	22.537	65.038	45.955	0.00	0.00
ATOM	139	CZ	ARG	X	9	21.142	63.661	45.683	0.00	0.00
ATOM	140	NH1	ARG	X	9	20.860	62.576	45.115	0.00	0.00
ATOM	141	HH11	ARG	X	9	21.193	62.299	44.203	0.00	0.00
ATOM	142	HH12	ARG	X	9	20.106	61.955	45.369	0.00	0.00

ATOM	143	NH2	ARG	X	9	20.212	64.010	46.570	0.00	0.00
ATOM	144	HH21	ARG	X	9	20.342	64.829	47.146	0.00	0.00
ATOM	145	HH22	ARG	X	9	19.360	63.471	46.626	0.00	0.00
ATOM	146	C	ARG	X	9	27.121	66.021	45.464	0.00	0.00
ATOM	147	O	ARG	X	9	26.461	66.892	46.037	0.00	0.00
ATOM	148	N	GLY	X	10	28.230	65.604	46.062	0.00	0.00
ATOM	149	H	GLY	X	10	28.555	64.730	45.672	0.00	0.00
ATOM	150	CA	GLY	X	10	28.716	65.923	47.402	0.00	0.00
ATOM	151	HA2	GLY	X	10	27.788	65.977	48.086	0.00	0.00
ATOM	152	HA3	GLY	X	10	29.415	65.116	47.635	0.00	0.00
ATOM	153	C	GLY	X	10	29.465	67.304	47.454	0.00	0.00
ATOM	154	O	GLY	X	10	29.113	68.056	48.343	0.00	0.00
ATOM	155	N	GLY	X	11	30.251	67.647	46.392	0.00	0.00
ATOM	156	H	GLY	X	11	30.401	67.007	45.625	0.00	0.00
ATOM	157	CA	GLY	X	11	30.828	69.029	46.239	0.00	0.00
ATOM	158	HA2	GLY	X	11	30.018	69.618	45.957	0.00	0.00
ATOM	159	HA3	GLY	X	11	31.369	69.333	47.107	0.00	0.00
ATOM	160	C	GLY	X	11	31.751	69.137	45.070	0.00	0.00
ATOM	161	O	GLY	X	11	31.728	68.369	44.057	0.00	0.00
ATOM	162	N	ARG	X	12	32.668	70.031	45.180	0.00	0.00
ATOM	163	H	ARG	X	12	32.791	70.503	46.065	0.00	0.00
ATOM	164	CA	ARG	X	12	33.656	70.293	44.137	0.00	0.00
ATOM	165	HA	ARG	X	12	33.362	69.841	43.190	0.00	0.00
ATOM	166	CB	ARG	X	12	34.027	71.723	44.001	0.00	0.00
ATOM	167	HB2	ARG	X	12	34.064	72.130	45.012	0.00	0.00
ATOM	168	HB3	ARG	X	12	35.030	71.864	43.598	0.00	0.00
ATOM	169	CG	ARG	X	12	33.123	72.602	43.125	0.00	0.00
ATOM	170	HG2	ARG	X	12	33.478	73.628	43.233	0.00	0.00
ATOM	171	HG3	ARG	X	12	33.123	72.224	42.103	0.00	0.00
ATOM	172	CD	ARG	X	12	31.717	72.773	43.578	0.00	0.00
ATOM	173	HD2	ARG	X	12	31.306	71.833	43.946	0.00	0.00
ATOM	174	HD3	ARG	X	12	31.750	73.526	44.365	0.00	0.00
ATOM	175	NE	ARG	X	12	30.935	73.433	42.489	0.00	0.00
ATOM	176	HE	ARG	X	12	31.480	73.867	41.758	0.00	0.00
ATOM	177	CZ	ARG	X	12	29.588	73.476	42.269	0.00	0.00
ATOM	178	NH1	ARG	X	12	28.735	72.911	43.085	0.00	0.00
ATOM	179	HH11	ARG	X	12	29.039	72.712	44.027	0.00	0.00
ATOM	180	HH12	ARG	X	12	27.763	73.002	42.823	0.00	0.00
ATOM	181	NH2	ARG	X	12	29.183	74.130	41.173	0.00	0.00
ATOM	182	HH21	ARG	X	12	29.846	74.533	40.526	0.00	0.00
ATOM	183	HH22	ARG	X	12	28.262	74.042	40.768	0.00	0.00
ATOM	184	C	ARG	X	12	34.930	69.487	44.328	0.00	0.00
ATOM	185	O	ARG	X	12	35.245	69.097	45.420	0.00	0.00
ATOM	186	N	LEU	X	13	35.646	69.074	43.263	0.00	0.00
ATOM	187	H	LEU	X	13	35.415	69.502	42.378	0.00	0.00
ATOM	188	CA	LEU	X	13	36.788	68.162	43.359	0.00	0.00
ATOM	189	HA	LEU	X	13	37.208	68.266	44.359	0.00	0.00
ATOM	190	CB	LEU	X	13	36.324	66.764	43.004	0.00	0.00
ATOM	191	HB2	LEU	X	13	35.863	66.785	42.016	0.00	0.00
ATOM	192	HB3	LEU	X	13	37.205	66.151	42.818	0.00	0.00
ATOM	193	CG	LEU	X	13	35.396	65.923	43.960	0.00	0.00
ATOM	194	HG	LEU	X	13	34.475	66.479	44.135	0.00	0.00
ATOM	195	CD1	LEU	X	13	34.983	64.650	43.214	0.00	0.00
ATOM	196	HD11	LEU	X	13	34.695	64.868	42.185	0.00	0.00
ATOM	197	HD12	LEU	X	13	35.871	64.027	43.108	0.00	0.00
ATOM	198	HD13	LEU	X	13	34.194	64.128	43.755	0.00	0.00
ATOM	199	CD2	LEU	X	13	36.222	65.594	45.264	0.00	0.00
ATOM	200	HD21	LEU	X	13	36.367	66.464	45.906	0.00	0.00
ATOM	201	HD22	LEU	X	13	35.634	64.835	45.780	0.00	0.00
ATOM	202	HD23	LEU	X	13	37.231	65.230	45.072	0.00	0.00
ATOM	203	C	LEU	X	13	37.725	68.583	42.323	0.00	0.00
ATOM	204	O	LEU	X	13	37.366	68.951	41.174	0.00	0.00
ATOM	205	N	ARG	X	14	39.049	68.647	42.596	0.00	0.00
ATOM	206	H	ARG	X	14	39.264	68.469	43.567	0.00	0.00
ATOM	207	CA	ARG	X	14	40.164	69.062	41.738	0.00	0.00
ATOM	208	HA	ARG	X	14	39.742	69.401	40.791	0.00	0.00
ATOM	209	CB	ARG	X	14	40.953	70.140	42.470	0.00	0.00
ATOM	210	HB2	ARG	X	14	40.255	70.899	42.823	0.00	0.00
ATOM	211	HB3	ARG	X	14	41.390	69.617	43.320	0.00	0.00
ATOM	212	CG	ARG	X	14	41.991	70.957	41.599	0.00	0.00

ATOM	213	HG2	ARG	X	14	42.520	70.231	40.981	0.00	0.00
ATOM	214	HG3	ARG	X	14	41.369	71.647	41.030	0.00	0.00
ATOM	215	CD	ARG	X	14	42.972	71.858	42.427	0.00	0.00
ATOM	216	HD2	ARG	X	14	42.312	72.451	43.061	0.00	0.00
ATOM	217	HD3	ARG	X	14	43.681	71.263	43.002	0.00	0.00
ATOM	218	NE	ARG	X	14	43.723	72.799	41.526	0.00	0.00
ATOM	219	HE	ARG	X	14	43.902	72.346	40.641	0.00	0.00
ATOM	220	CZ	ARG	X	14	44.041	74.002	41.838	0.00	0.00
ATOM	221	NH1	ARG	X	14	44.074	74.516	43.023	0.00	0.00
ATOM	222	HH11	ARG	X	14	43.849	74.036	43.883	0.00	0.00
ATOM	223	HH12	ARG	X	14	44.684	75.309	43.163	0.00	0.00
ATOM	224	NH2	ARG	X	14	44.458	74.819	40.906	0.00	0.00
ATOM	225	HH21	ARG	X	14	44.630	74.424	39.992	0.00	0.00
ATOM	226	HH22	ARG	X	14	45.061	75.550	41.256	0.00	0.00
ATOM	227	C	ARG	X	14	41.084	67.845	41.407	0.00	0.00
ATOM	228	O	ARG	X	14	41.581	67.176	42.311	0.00	0.00
ATOM	229	N	GLY	X	15	41.301	67.642	40.070	0.00	0.00
ATOM	230	H	GLY	X	15	40.920	68.360	39.470	0.00	0.00
ATOM	231	CA	GLY	X	15	42.102	66.532	39.485	0.00	0.00
ATOM	232	HA2	GLY	X	15	42.085	65.695	40.200	0.00	0.00
ATOM	233	HA3	GLY	X	15	41.769	66.217	38.534	0.00	0.00
ATOM	234	C	GLY	X	15	43.530	67.012	39.168	0.00	0.00
ATOM	235	O	GLY	X	15	43.949	68.069	39.588	0.00	0.00
ATOM	236	N	ILE	X	16	44.262	66.031	38.647	0.00	0.00
ATOM	237	H	ILE	X	16	43.801	65.187	38.340	0.00	0.00
ATOM	238	CA	ILE	X	16	45.573	66.150	37.995	0.00	0.00
ATOM	239	HA	ILE	X	16	45.755	67.223	37.923	0.00	0.00
ATOM	240	CB	ILE	X	16	46.629	65.454	38.813	0.00	0.00
ATOM	241	HB	ILE	X	16	47.610	65.541	38.346	0.00	0.00
ATOM	242	CG2	ILE	X	16	46.717	66.194	40.117	0.00	0.00
ATOM	243	HG21	ILE	X	16	47.563	65.812	40.688	0.00	0.00
ATOM	244	HG22	ILE	X	16	46.993	67.191	39.772	0.00	0.00
ATOM	245	HG23	ILE	X	16	45.766	66.108	40.643	0.00	0.00
ATOM	246	CG1	ILE	X	16	46.314	63.939	38.918	0.00	0.00
ATOM	247	HG12	ILE	X	16	45.465	63.662	39.543	0.00	0.00
ATOM	248	HG13	ILE	X	16	46.096	63.450	37.968	0.00	0.00
ATOM	249	CD1	ILE	X	16	47.560	63.216	39.420	0.00	0.00
ATOM	250	HD11	ILE	X	16	47.408	62.139	39.503	0.00	0.00
ATOM	251	HD12	ILE	X	16	48.383	63.468	38.752	0.00	0.00
ATOM	252	HD13	ILE	X	16	47.790	63.702	40.368	0.00	0.00
ATOM	253	C	ILE	X	16	45.493	65.647	36.540	0.00	0.00
ATOM	254	O	ILE	X	16	44.523	64.957	36.224	0.00	0.00
ATOM	255	N	ARG	X	17	46.522	65.892	35.762	0.00	0.00
ATOM	256	H	ARG	X	17	47.355	66.351	36.102	0.00	0.00
ATOM	257	CA	ARG	X	17	46.776	65.116	34.527	0.00	0.00
ATOM	258	HA	ARG	X	17	45.867	64.625	34.179	0.00	0.00
ATOM	259	CB	ARG	X	17	47.187	66.002	33.321	0.00	0.00
ATOM	260	HB2	ARG	X	17	47.865	66.744	33.743	0.00	0.00
ATOM	261	HB3	ARG	X	17	47.648	65.381	32.553	0.00	0.00
ATOM	262	CG	ARG	X	17	45.899	66.605	32.695	0.00	0.00
ATOM	263	HG2	ARG	X	17	45.113	65.932	32.352	0.00	0.00
ATOM	264	HG3	ARG	X	17	45.340	67.069	33.508	0.00	0.00
ATOM	265	CD	ARG	X	17	46.244	67.749	31.705	0.00	0.00
ATOM	266	HD2	ARG	X	17	45.369	68.107	31.162	0.00	0.00
ATOM	267	HD3	ARG	X	17	46.625	68.511	32.385	0.00	0.00
ATOM	268	NE	ARG	X	17	47.370	67.523	30.628	0.00	0.00
ATOM	269	HE	ARG	X	17	48.018	66.749	30.606	0.00	0.00
ATOM	270	CZ	ARG	X	17	47.604	68.099	29.456	0.00	0.00
ATOM	271	NH1	ARG	X	17	46.937	69.108	29.064	0.00	0.00
ATOM	272	HH11	ARG	X	17	46.410	69.673	29.714	0.00	0.00
ATOM	273	HH12	ARG	X	17	47.288	69.568	28.236	0.00	0.00
ATOM	274	NH2	ARG	X	17	48.486	67.591	28.712	0.00	0.00
ATOM	275	HH21	ARG	X	17	48.882	66.756	29.119	0.00	0.00
ATOM	276	HH22	ARG	X	17	48.640	67.853	27.749	0.00	0.00
ATOM	277	C	ARG	X	17	47.795	64.018	34.726	0.00	0.00
ATOM	278	O	ARG	X	17	48.646	64.118	35.609	0.00	0.00
ATOM	279	N	LEU	X	18	47.755	62.898	34.027	0.00	0.00
ATOM	280	H	LEU	X	18	46.943	62.835	33.430	0.00	0.00
ATOM	281	CA	LEU	X	18	48.797	61.963	33.843	0.00	0.00
ATOM	282	HA	LEU	X	18	49.641	62.168	34.502	0.00	0.00

ATOM	283	CB	LEU	X	18	48.303	60.543	34.208	0.00	0.00
ATOM	284	HB2	LEU	X	18	47.465	60.400	33.525	0.00	0.00
ATOM	285	HB3	LEU	X	18	49.000	59.773	33.878	0.00	0.00
ATOM	286	CG	LEU	X	18	47.882	60.420	35.629	0.00	0.00
ATOM	287	HG	LEU	X	18	47.158	61.210	35.826	0.00	0.00
ATOM	288	CD1	LEU	X	18	47.199	59.049	35.653	0.00	0.00
ATOM	289	HD11	LEU	X	18	48.005	58.339	35.467	0.00	0.00
ATOM	290	HD12	LEU	X	18	46.811	58.897	36.659	0.00	0.00
ATOM	291	HD13	LEU	X	18	46.380	58.985	34.936	0.00	0.00
ATOM	292	CD2	LEU	X	18	49.042	60.559	36.573	0.00	0.00
ATOM	293	HD21	LEU	X	18	48.720	60.141	37.526	0.00	0.00
ATOM	294	HD22	LEU	X	18	49.973	60.131	36.201	0.00	0.00
ATOM	295	HD23	LEU	X	18	49.256	61.599	36.819	0.00	0.00
ATOM	296	C	LEU	X	18	49.277	61.968	32.383	0.00	0.00
ATOM	297	O	LEU	X	18	48.561	62.287	31.374	0.00	0.00
ATOM	298	N	LYS	X	19	50.553	61.632	32.277	0.00	0.00
ATOM	299	H	LYS	X	19	51.142	61.617	33.097	0.00	0.00
ATOM	300	CA	LYS	X	19	51.156	61.444	30.966	0.00	0.00
ATOM	301	HA	LYS	X	19	50.730	62.160	30.263	0.00	0.00
ATOM	302	CB	LYS	X	19	52.701	61.640	30.978	0.00	0.00
ATOM	303	HB2	LYS	X	19	53.095	61.254	31.918	0.00	0.00
ATOM	304	HB3	LYS	X	19	53.151	61.083	30.157	0.00	0.00
ATOM	305	CG	LYS	X	19	53.074	63.137	31.062	0.00	0.00
ATOM	306	HG2	LYS	X	19	52.912	63.497	30.046	0.00	0.00
ATOM	307	HG3	LYS	X	19	52.439	63.748	31.704	0.00	0.00
ATOM	308	CD	LYS	X	19	54.620	63.330	31.326	0.00	0.00
ATOM	309	HD2	LYS	X	19	55.178	62.543	30.818	0.00	0.00
ATOM	310	HD3	LYS	X	19	54.994	64.296	30.986	0.00	0.00
ATOM	311	CE	LYS	X	19	55.159	63.262	32.788	0.00	0.00
ATOM	312	HE2	LYS	X	19	55.028	62.242	33.147	0.00	0.00
ATOM	313	HE3	LYS	X	19	56.176	63.633	32.661	0.00	0.00
ATOM	314	NZ	LYS	X	19	54.558	64.182	33.752	0.00	0.00
ATOM	315	HZ1	LYS	X	19	54.910	64.196	34.698	0.00	0.00
ATOM	316	HZ2	LYS	X	19	54.549	65.078	33.285	0.00	0.00
ATOM	317	HZ3	LYS	X	19	53.566	64.001	33.807	0.00	0.00
ATOM	318	C	LYS	X	19	50.861	60.040	30.393	0.00	0.00
ATOM	319	O	LYS	X	19	50.674	59.112	31.219	0.00	0.00
ATOM	320	N	THR	X	20	50.808	59.871	29.086	0.00	0.00
ATOM	321	H	THR	X	20	50.949	60.719	28.555	0.00	0.00
ATOM	322	CA	THR	X	20	50.413	58.688	28.285	0.00	0.00
ATOM	323	HA	THR	X	20	50.853	57.878	28.867	0.00	0.00
ATOM	324	CB	THR	X	20	48.900	58.358	28.300	0.00	0.00
ATOM	325	HB	THR	X	20	48.628	58.057	27.288	0.00	0.00
ATOM	326	CG2	THR	X	20	48.584	57.195	29.251	0.00	0.00
ATOM	327	HG21	THR	X	20	48.961	57.466	30.237	0.00	0.00
ATOM	328	HG22	THR	X	20	47.502	57.104	29.351	0.00	0.00
ATOM	329	HG23	THR	X	20	48.863	56.193	28.926	0.00	0.00
ATOM	330	OG1	THR	X	20	48.071	59.498	28.720	0.00	0.00
ATOM	331	HG1	THR	X	20	47.817	59.915	27.894	0.00	0.00
ATOM	332	C	THR	X	20	50.899	58.941	26.847	0.00	0.00
ATOM	333	O	THR	X	20	50.842	60.015	26.366	0.00	0.00
ATOM	334	N	PRO	X	21	51.366	57.825	26.221	0.00	0.00
ATOM	335	CD	PRO	X	21	51.045	56.490	26.606	0.00	0.00
ATOM	336	HD2	PRO	X	21	50.043	56.320	26.999	0.00	0.00
ATOM	337	HD3	PRO	X	21	51.728	56.000	27.301	0.00	0.00
ATOM	338	CG	PRO	X	21	51.160	55.605	25.326	0.00	0.00
ATOM	339	HG2	PRO	X	21	50.279	55.562	24.686	0.00	0.00
ATOM	340	HG3	PRO	X	21	51.448	54.564	25.476	0.00	0.00
ATOM	341	CB	PRO	X	21	52.317	56.301	24.669	0.00	0.00
ATOM	342	HB2	PRO	X	21	52.377	56.188	23.586	0.00	0.00
ATOM	343	HB3	PRO	X	21	53.251	56.045	25.167	0.00	0.00
ATOM	344	CA	PRO	X	21	52.021	57.835	24.921	0.00	0.00
ATOM	345	HA	PRO	X	21	53.039	58.204	25.041	0.00	0.00
ATOM	346	C	PRO	X	21	51.164	58.514	23.812	0.00	0.00
ATOM	347	O	PRO	X	21	51.494	59.579	23.258	0.00	0.00
ATOM	348	N	GLY	X	22	50.137	57.817	23.303	0.00	0.00
ATOM	349	H	GLY	X	22	50.011	56.864	23.613	0.00	0.00
ATOM	350	CA	GLY	X	22	49.349	58.299	22.172	0.00	0.00
ATOM	351	HA2	GLY	X	22	50.029	58.795	21.506	0.00	0.00
ATOM	352	HA3	GLY	X	22	48.856	57.480	21.731	0.00	0.00

ATOM	353	C	GLY	X	22	48.247	59.342	22.431	0.00	0.00
ATOM	354	O	GLY	X	22	47.468	59.558	21.532	0.00	0.00
ATOM	355	N	GLY	X	23	48.263	59.986	23.573	0.00	0.00
ATOM	356	H	GLY	X	23	48.971	59.743	24.251	0.00	0.00
ATOM	357	CA	GLY	X	23	47.414	61.094	24.011	0.00	0.00
ATOM	358	HA2	GLY	X	23	47.990	62.026	23.677	0.00	0.00
ATOM	359	HA3	GLY	X	23	46.527	61.094	23.587	0.00	0.00
ATOM	360	C	GLY	X	23	47.237	61.323	25.565	0.00	0.00
ATOM	361	O	GLY	X	23	47.529	60.407	26.323	0.00	0.00
ATOM	362	N	PRO	X	24	46.774	62.542	25.962	0.00	0.00
ATOM	363	CD	PRO	X	24	46.424	63.658	25.123	0.00	0.00
ATOM	364	HD2	PRO	X	24	45.615	63.368	24.451	0.00	0.00
ATOM	365	HD3	PRO	X	24	47.274	63.811	24.458	0.00	0.00
ATOM	366	CG	PRO	X	24	46.142	64.812	26.049	0.00	0.00
ATOM	367	HG2	PRO	X	24	45.095	65.108	26.117	0.00	0.00
ATOM	368	HG3	PRO	X	24	46.595	65.750	25.728	0.00	0.00
ATOM	369	CB	PRO	X	24	46.658	64.433	27.378	0.00	0.00
ATOM	370	HB2	PRO	X	24	46.056	64.881	28.169	0.00	0.00
ATOM	371	HB3	PRO	X	24	47.656	64.853	27.502	0.00	0.00
ATOM	372	CA	PRO	X	24	46.757	62.905	27.382	0.00	0.00
ATOM	373	HA	PRO	X	24	47.632	62.479	27.873	0.00	0.00
ATOM	374	C	PRO	X	24	45.512	62.323	28.166	0.00	0.00
ATOM	375	O	PRO	X	24	44.457	62.241	27.675	0.00	0.00
ATOM	376	N	VAL	X	25	45.729	62.152	29.455	0.00	0.00
ATOM	377	H	VAL	X	25	46.600	62.414	29.893	0.00	0.00
ATOM	378	CA	VAL	X	25	44.679	61.740	30.371	0.00	0.00
ATOM	379	HA	VAL	X	25	43.689	61.839	29.927	0.00	0.00
ATOM	380	CB	VAL	X	25	44.738	60.191	30.618	0.00	0.00
ATOM	381	HB	VAL	X	25	44.817	59.609	29.699	0.00	0.00
ATOM	382	CG1	VAL	X	25	45.906	59.752	31.456	0.00	0.00
ATOM	383	HG11	VAL	X	25	46.109	58.686	31.360	0.00	0.00
ATOM	384	HG12	VAL	X	25	46.777	60.286	31.076	0.00	0.00
ATOM	385	HG13	VAL	X	25	45.684	59.929	32.508	0.00	0.00
ATOM	386	CG2	VAL	X	25	43.464	59.685	31.234	0.00	0.00
ATOM	387	HG21	VAL	X	25	43.570	58.603	31.323	0.00	0.00
ATOM	388	HG22	VAL	X	25	43.331	60.036	32.257	0.00	0.00
ATOM	389	HG23	VAL	X	25	42.604	60.051	30.673	0.00	0.00
ATOM	390	C	VAL	X	25	44.596	62.523	31.668	0.00	0.00
ATOM	391	O	VAL	X	25	45.655	62.845	32.210	0.00	0.00
ATOM	392	N	SER	X	26	43.356	62.732	32.201	0.00	0.00
ATOM	393	H	SER	X	26	42.537	62.296	31.800	0.00	0.00
ATOM	394	CA	SER	X	26	43.117	63.259	33.504	0.00	0.00
ATOM	395	HA	SER	X	26	44.019	63.737	33.887	0.00	0.00
ATOM	396	CB	SER	X	26	42.064	64.391	33.393	0.00	0.00
ATOM	397	HB2	SER	X	26	42.034	64.867	34.373	0.00	0.00
ATOM	398	HB3	SER	X	26	42.247	65.058	32.551	0.00	0.00
ATOM	399	OG	SER	X	26	40.796	63.851	33.154	0.00	0.00
ATOM	400	HG	SER	X	26	40.819	63.200	32.449	0.00	0.00
ATOM	401	C	SER	X	26	42.700	62.144	34.533	0.00	0.00
ATOM	402	O	SER	X	26	41.996	61.163	34.217	0.00	0.00
ATOM	403	N	ALA	X	27	43.106	62.442	35.783	0.00	0.00
ATOM	404	H	ALA	X	27	43.544	63.343	35.913	0.00	0.00
ATOM	405	CA	ALA	X	27	42.882	61.544	36.952	0.00	0.00
ATOM	406	HA	ALA	X	27	42.104	60.829	36.684	0.00	0.00
ATOM	407	CB	ALA	X	27	44.236	60.905	37.230	0.00	0.00
ATOM	408	HB1	ALA	X	27	44.115	59.863	37.527	0.00	0.00
ATOM	409	HB2	ALA	X	27	44.843	61.011	36.332	0.00	0.00
ATOM	410	HB3	ALA	X	27	44.786	61.489	37.968	0.00	0.00
ATOM	411	C	ALA	X	27	42.461	62.319	38.194	0.00	0.00
ATOM	412	O	ALA	X	27	42.918	63.451	38.476	0.00	0.00
ATOM	413	N	PHE	X	28	41.643	61.656	38.985	0.00	0.00
ATOM	414	H	PHE	X	28	41.371	60.714	38.742	0.00	0.00
ATOM	415	CA	PHE	X	28	40.936	62.145	40.175	0.00	0.00
ATOM	416	HA	PHE	X	28	41.413	63.043	40.567	0.00	0.00
ATOM	417	CB	PHE	X	28	39.506	62.557	39.833	0.00	0.00
ATOM	418	HB2	PHE	X	28	38.953	61.652	39.580	0.00	0.00
ATOM	419	HB3	PHE	X	28	38.944	62.921	40.693	0.00	0.00
ATOM	420	CG	PHE	X	28	39.339	63.545	38.743	0.00	0.00
ATOM	421	CD1	PHE	X	28	39.374	63.077	37.401	0.00	0.00
ATOM	422	HD1	PHE	X	28	39.568	62.034	37.201	0.00	0.00

ATOM	423	CE1	PHE	X	28	39.226	63.963	36.371	0.00	0.00
ATOM	424	HE1	PHE	X	28	39.318	63.674	35.334	0.00	0.00
ATOM	425	CZ	PHE	X	28	39.108	65.345	36.594	0.00	0.00
ATOM	426	HZ	PHE	X	28	39.036	66.082	35.808	0.00	0.00
ATOM	427	CE2	PHE	X	28	38.980	65.795	37.895	0.00	0.00
ATOM	428	HE2	PHE	X	28	38.886	66.848	38.117	0.00	0.00
ATOM	429	CD2	PHE	X	28	39.139	64.904	38.981	0.00	0.00
ATOM	430	HD2	PHE	X	28	39.080	65.245	40.005	0.00	0.00
ATOM	431	C	PHE	X	28	40.947	61.096	41.257	0.00	0.00
ATOM	432	O	PHE	X	28	40.177	60.146	41.125	0.00	0.00
ATOM	433	N	LEU	X	29	41.850	61.154	42.203	0.00	0.00
ATOM	434	H	LEU	X	29	42.485	61.911	42.415	0.00	0.00
ATOM	435	CA	LEU	X	29	42.195	60.026	43.084	0.00	0.00
ATOM	436	HA	LEU	X	29	41.637	59.111	42.883	0.00	0.00
ATOM	437	CB	LEU	X	29	43.729	59.778	43.002	0.00	0.00
ATOM	438	HB2	LEU	X	29	44.081	60.712	43.440	0.00	0.00
ATOM	439	HB3	LEU	X	29	43.985	58.850	43.513	0.00	0.00
ATOM	440	CG	LEU	X	29	44.415	59.648	41.569	0.00	0.00
ATOM	441	HG	LEU	X	29	45.416	59.244	41.719	0.00	0.00
ATOM	442	CD1	LEU	X	29	43.519	58.780	40.604	0.00	0.00
ATOM	443	HD11	LEU	X	29	43.184	57.819	40.993	0.00	0.00
ATOM	444	HD12	LEU	X	29	42.670	59.279	40.136	0.00	0.00
ATOM	445	HD13	LEU	X	29	44.143	58.531	39.746	0.00	0.00
ATOM	446	CD2	LEU	X	29	44.764	61.044	40.941	0.00	0.00
ATOM	447	HD21	LEU	X	29	43.950	61.768	40.984	0.00	0.00
ATOM	448	HD22	LEU	X	29	45.594	61.546	41.436	0.00	0.00
ATOM	449	HD23	LEU	X	29	44.998	60.835	39.897	0.00	0.00
ATOM	450	C	LEU	X	29	41.747	60.471	44.415	0.00	0.00
ATOM	451	O	LEU	X	29	41.750	61.674	44.792	0.00	0.00
ATOM	452	N	GLY	X	30	41.508	59.498	45.335	0.00	0.00
ATOM	453	H	GLY	X	30	41.305	58.540	45.089	0.00	0.00
ATOM	454	CA	GLY	X	30	41.273	59.747	46.773	0.00	0.00
ATOM	455	HA2	GLY	X	30	41.294	58.740	47.190	0.00	0.00
ATOM	456	HA3	GLY	X	30	42.158	60.265	47.112	0.00	0.00
ATOM	457	C	GLY	X	30	39.999	60.458	47.070	0.00	0.00
ATOM	458	O	GLY	X	30	40.063	61.429	47.787	0.00	0.00
ATOM	459	N	ILE	X	31	38.882	60.055	46.434	0.00	0.00
ATOM	460	H	ILE	X	31	38.927	59.256	45.818	0.00	0.00
ATOM	461	CA	ILE	X	31	37.586	60.824	46.623	0.00	0.00
ATOM	462	HA	ILE	X	31	37.703	61.870	46.907	0.00	0.00
ATOM	463	CB	ILE	X	31	36.764	60.731	45.340	0.00	0.00
ATOM	464	HB	ILE	X	31	36.566	59.699	45.050	0.00	0.00
ATOM	465	CG2	ILE	X	31	35.320	61.322	45.464	0.00	0.00
ATOM	466	HG21	ILE	X	31	34.774	60.738	46.204	0.00	0.00
ATOM	467	HG22	ILE	X	31	35.279	62.323	45.893	0.00	0.00
ATOM	468	HG23	ILE	X	31	34.770	61.296	44.523	0.00	0.00
ATOM	469	CG1	ILE	X	31	37.582	61.403	44.255	0.00	0.00
ATOM	470	HG12	ILE	X	31	37.799	62.444	44.495	0.00	0.00
ATOM	471	HG13	ILE	X	31	38.568	60.971	44.083	0.00	0.00
ATOM	472	CD1	ILE	X	31	36.912	61.445	42.792	0.00	0.00
ATOM	473	HD11	ILE	X	31	35.828	61.558	42.776	0.00	0.00
ATOM	474	HD12	ILE	X	31	37.370	62.158	42.106	0.00	0.00
ATOM	475	HD13	ILE	X	31	37.104	60.485	42.314	0.00	0.00
ATOM	476	C	ILE	X	31	36.823	60.077	47.780	0.00	0.00
ATOM	477	O	ILE	X	31	36.724	58.804	47.693	0.00	0.00
ATOM	478	N	PRO	X	32	36.305	60.784	48.760	0.00	0.00
ATOM	479	CD	PRO	X	32	36.422	62.228	49.000	0.00	0.00
ATOM	480	HD2	PRO	X	32	36.100	62.764	48.107	0.00	0.00
ATOM	481	HD3	PRO	X	32	37.463	62.515	49.152	0.00	0.00
ATOM	482	CG	PRO	X	32	35.646	62.549	50.258	0.00	0.00
ATOM	483	HG2	PRO	X	32	34.604	62.722	49.989	0.00	0.00
ATOM	484	HG3	PRO	X	32	36.144	63.218	50.961	0.00	0.00
ATOM	485	CB	PRO	X	32	35.693	61.174	51.004	0.00	0.00
ATOM	486	HB2	PRO	X	32	34.844	61.103	51.683	0.00	0.00
ATOM	487	HB3	PRO	X	32	36.672	61.056	51.468	0.00	0.00
ATOM	488	CA	PRO	X	32	35.645	60.124	49.946	0.00	0.00
ATOM	489	HA	PRO	X	32	36.164	59.241	50.317	0.00	0.00
ATOM	490	C	PRO	X	32	34.184	59.853	49.614	0.00	0.00
ATOM	491	O	PRO	X	32	33.272	60.656	49.626	0.00	0.00
ATOM	492	N	PHE	X	33	33.893	58.566	49.245	0.00	0.00

ATOM	493	H	PHE	X	33	34.656	57.906	49.200	0.00	0.00
ATOM	494	CA	PHE	X	33	32.544	58.110	49.076	0.00	0.00
ATOM	495	HA	PHE	X	33	31.959	58.875	48.565	0.00	0.00
ATOM	496	CB	PHE	X	33	32.559	56.896	48.054	0.00	0.00
ATOM	497	HB2	PHE	X	33	31.547	56.702	47.698	0.00	0.00
ATOM	498	HB3	PHE	X	33	33.304	57.166	47.306	0.00	0.00
ATOM	499	CG	PHE	X	33	33.082	55.643	48.618	0.00	0.00
ATOM	500	CD1	PHE	X	33	32.226	54.674	49.057	0.00	0.00
ATOM	501	HD1	PHE	X	33	31.156	54.789	48.962	0.00	0.00
ATOM	502	CE1	PHE	X	33	32.701	53.399	49.413	0.00	0.00
ATOM	503	HE1	PHE	X	33	32.054	52.547	49.559	0.00	0.00
ATOM	504	CZ	PHE	X	33	34.079	53.143	49.311	0.00	0.00
ATOM	505	HZ	PHE	X	33	34.370	52.144	49.599	0.00	0.00
ATOM	506	CE2	PHE	X	33	34.996	54.165	48.936	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.058	53.970	48.977	0.00	0.00
ATOM	508	CD2	PHE	X	33	34.488	55.382	48.510	0.00	0.00
ATOM	509	HD2	PHE	X	33	35.182	56.143	48.186	0.00	0.00
ATOM	510	C	PHE	X	33	31.804	57.831	50.418	0.00	0.00
ATOM	511	O	PHE	X	33	30.545	57.704	50.397	0.00	0.00
ATOM	512	N	ALA	X	34	32.476	57.565	51.491	0.00	0.00
ATOM	513	H	ALA	X	34	33.482	57.518	51.412	0.00	0.00
ATOM	514	CA	ALA	X	34	31.875	57.115	52.719	0.00	0.00
ATOM	515	HA	ALA	X	34	30.808	57.301	52.841	0.00	0.00
ATOM	516	CB	ALA	X	34	32.008	55.562	52.718	0.00	0.00
ATOM	517	HB1	ALA	X	34	31.504	55.088	53.560	0.00	0.00
ATOM	518	HB2	ALA	X	34	31.872	55.134	51.725	0.00	0.00
ATOM	519	HB3	ALA	X	34	33.023	55.483	53.107	0.00	0.00
ATOM	520	C	ALA	X	34	32.396	57.809	53.978	0.00	0.00
ATOM	521	O	ALA	X	34	33.391	58.523	54.013	0.00	0.00
ATOM	522	N	GLU	X	35	31.603	57.683	55.046	0.00	0.00
ATOM	523	H	GLU	X	35	30.727	57.220	54.852	0.00	0.00
ATOM	524	CA	GLU	X	35	32.036	58.006	56.426	0.00	0.00
ATOM	525	HA	GLU	X	35	32.441	59.014	56.333	0.00	0.00
ATOM	526	CB	GLU	X	35	30.903	58.045	57.438	0.00	0.00
ATOM	527	HB2	GLU	X	35	30.522	57.024	57.418	0.00	0.00
ATOM	528	HB3	GLU	X	35	31.299	58.405	58.387	0.00	0.00
ATOM	529	CG	GLU	X	35	29.772	59.009	57.022	0.00	0.00
ATOM	530	HG2	GLU	X	35	29.555	58.979	55.954	0.00	0.00
ATOM	531	HG3	GLU	X	35	28.851	58.741	57.540	0.00	0.00
ATOM	532	CD	GLU	X	35	29.991	60.549	57.223	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.627	61.216	56.419	0.00	0.00
ATOM	534	OE2	GLU	X	35	29.420	61.048	58.259	0.00	0.00
ATOM	535	C	GLU	X	35	33.078	56.995	56.864	0.00	0.00
ATOM	536	O	GLU	X	35	32.947	55.792	56.497	0.00	0.00
ATOM	537	N	PRO	X	36	34.096	57.467	57.579	0.00	0.00
ATOM	538	CD	PRO	X	36	34.236	58.776	58.245	0.00	0.00
ATOM	539	HD2	PRO	X	36	33.490	58.836	59.038	0.00	0.00
ATOM	540	HD3	PRO	X	36	34.030	59.508	57.464	0.00	0.00
ATOM	541	CG	PRO	X	36	35.662	58.873	58.785	0.00	0.00
ATOM	542	HG2	PRO	X	36	35.711	59.565	59.625	0.00	0.00
ATOM	543	HG3	PRO	X	36	36.323	59.196	57.981	0.00	0.00
ATOM	544	CB	PRO	X	36	35.849	57.424	59.193	0.00	0.00
ATOM	545	HB2	PRO	X	36	35.373	57.375	60.172	0.00	0.00
ATOM	546	HB3	PRO	X	36	36.904	57.160	59.274	0.00	0.00
ATOM	547	CA	PRO	X	36	35.078	56.595	58.210	0.00	0.00
ATOM	548	HA	PRO	X	36	35.720	56.206	57.420	0.00	0.00
ATOM	549	C	PRO	X	36	34.409	55.360	58.990	0.00	0.00
ATOM	550	O	PRO	X	36	33.688	55.639	59.896	0.00	0.00
ATOM	551	N	PRO	X	37	34.621	54.095	58.609	0.00	0.00
ATOM	552	CD	PRO	X	37	35.274	53.690	57.385	0.00	0.00
ATOM	553	HD2	PRO	X	37	36.325	53.966	57.297	0.00	0.00
ATOM	554	HD3	PRO	X	37	34.737	54.077	56.519	0.00	0.00
ATOM	555	CG	PRO	X	37	35.273	52.134	57.287	0.00	0.00
ATOM	556	HG2	PRO	X	37	36.202	51.872	57.793	0.00	0.00
ATOM	557	HG3	PRO	X	37	35.274	51.827	56.241	0.00	0.00
ATOM	558	CB	PRO	X	37	34.040	51.792	58.142	0.00	0.00
ATOM	559	HB2	PRO	X	37	34.064	50.783	58.553	0.00	0.00
ATOM	560	HB3	PRO	X	37	33.105	51.824	57.583	0.00	0.00
ATOM	561	CA	PRO	X	37	34.062	52.879	59.223	0.00	0.00
ATOM	562	HA	PRO	X	37	33.034	53.092	59.517	0.00	0.00

ATOM	563	C	PRO	X	37	34.720	52.436	60.512	0.00	0.00
ATOM	564	O	PRO	X	37	34.378	51.270	60.920	0.00	0.00
ATOM	565	N	MET	X	38	35.492	53.293	61.171	0.00	0.00
ATOM	566	H	MET	X	38	35.541	54.230	60.795	0.00	0.00
ATOM	567	CA	MET	X	38	36.189	53.147	62.478	0.00	0.00
ATOM	568	HA	MET	X	38	36.779	52.234	62.405	0.00	0.00
ATOM	569	CB	MET	X	38	37.097	54.358	62.619	0.00	0.00
ATOM	570	HB2	MET	X	38	37.824	54.354	63.431	0.00	0.00
ATOM	571	HB3	MET	X	38	37.696	54.532	61.725	0.00	0.00
ATOM	572	CG	MET	X	38	36.381	55.714	62.824	0.00	0.00
ATOM	573	HG2	MET	X	38	35.769	55.939	61.951	0.00	0.00
ATOM	574	HG3	MET	X	38	35.716	55.735	63.688	0.00	0.00
ATOM	575	SD	MET	X	38	37.478	57.216	62.871	0.00	0.00
ATOM	576	CE	MET	X	38	38.138	57.075	64.479	0.00	0.00
ATOM	577	HE1	MET	X	38	38.829	57.840	64.834	0.00	0.00
ATOM	578	HE2	MET	X	38	37.364	56.997	65.243	0.00	0.00
ATOM	579	HE3	MET	X	38	38.759	56.186	64.595	0.00	0.00
ATOM	580	C	MET	X	38	35.351	52.898	63.694	0.00	0.00
ATOM	581	O	MET	X	38	34.237	53.351	63.764	0.00	0.00
ATOM	582	N	GLY	X	39	35.941	52.166	64.664	0.00	0.00
ATOM	583	H	GLY	X	39	36.875	51.832	64.470	0.00	0.00
ATOM	584	CA	GLY	X	39	35.474	52.216	65.984	0.00	0.00
ATOM	585	HA2	GLY	X	39	36.259	51.722	66.622	0.00	0.00
ATOM	586	HA3	GLY	X	39	35.446	53.274	66.281	0.00	0.00
ATOM	587	C	GLY	X	39	34.154	51.549	66.243	0.00	0.00
ATOM	588	O	GLY	X	39	34.165	50.300	66.264	0.00	0.00
ATOM	589	N	PRO	X	40	33.052	52.326	66.511	0.00	0.00
ATOM	590	CD	PRO	X	40	33.040	53.757	66.654	0.00	0.00
ATOM	591	HD2	PRO	X	40	33.273	54.085	65.641	0.00	0.00
ATOM	592	HD3	PRO	X	40	33.805	54.018	67.385	0.00	0.00
ATOM	593	CG	PRO	X	40	31.606	54.125	67.152	0.00	0.00
ATOM	594	HG2	PRO	X	40	31.142	55.029	66.757	0.00	0.00
ATOM	595	HG3	PRO	X	40	31.733	54.159	68.234	0.00	0.00
ATOM	596	CB	PRO	X	40	30.757	52.966	66.682	0.00	0.00
ATOM	597	HB2	PRO	X	40	30.242	53.231	65.759	0.00	0.00
ATOM	598	HB3	PRO	X	40	29.993	52.796	67.441	0.00	0.00
ATOM	599	CA	PRO	X	40	31.710	51.821	66.490	0.00	0.00
ATOM	600	HA	PRO	X	40	31.510	51.138	67.316	0.00	0.00
ATOM	601	C	PRO	X	40	31.320	51.056	65.246	0.00	0.00
ATOM	602	O	PRO	X	40	30.602	50.060	65.391	0.00	0.00
ATOM	603	N	ARG	X	41	31.761	51.601	64.083	0.00	0.00
ATOM	604	H	ARG	X	41	32.274	52.462	63.958	0.00	0.00
ATOM	605	CA	ARG	X	41	31.326	50.975	62.772	0.00	0.00
ATOM	606	HA	ARG	X	41	30.286	50.656	62.849	0.00	0.00
ATOM	607	CB	ARG	X	41	31.391	51.952	61.587	0.00	0.00
ATOM	608	HB2	ARG	X	41	32.317	52.516	61.698	0.00	0.00
ATOM	609	HB3	ARG	X	41	31.335	51.485	60.604	0.00	0.00
ATOM	610	CG	ARG	X	41	30.289	52.981	61.553	0.00	0.00
ATOM	611	HG2	ARG	X	41	29.302	52.599	61.294	0.00	0.00
ATOM	612	HG3	ARG	X	41	30.222	53.578	62.463	0.00	0.00
ATOM	613	CD	ARG	X	41	30.537	54.038	60.397	0.00	0.00
ATOM	614	HD2	ARG	X	41	31.428	54.589	60.695	0.00	0.00
ATOM	615	HD3	ARG	X	41	30.692	53.423	59.511	0.00	0.00
ATOM	616	NE	ARG	X	41	29.395	54.904	60.318	0.00	0.00
ATOM	617	HE	ARG	X	41	28.435	54.597	60.252	0.00	0.00
ATOM	618	CZ	ARG	X	41	29.447	56.218	60.365	0.00	0.00
ATOM	619	NH1	ARG	X	41	30.512	56.913	60.659	0.00	0.00
ATOM	620	HH11	ARG	X	41	31.366	56.428	60.896	0.00	0.00
ATOM	621	HH12	ARG	X	41	30.498	57.914	60.795	0.00	0.00
ATOM	622	NH2	ARG	X	41	28.426	57.011	60.125	0.00	0.00
ATOM	623	HH21	ARG	X	41	27.476	56.680	60.034	0.00	0.00
ATOM	624	HH22	ARG	X	41	28.561	57.924	60.537	0.00	0.00
ATOM	625	C	ARG	X	41	32.245	49.838	62.386	0.00	0.00
ATOM	626	O	ARG	X	41	31.992	49.201	61.343	0.00	0.00
ATOM	627	N	ARG	X	42	33.273	49.479	63.176	0.00	0.00
ATOM	628	H	ARG	X	42	33.369	49.912	64.083	0.00	0.00
ATOM	629	CA	ARG	X	42	34.125	48.342	62.953	0.00	0.00
ATOM	630	HA	ARG	X	42	34.568	48.555	61.980	0.00	0.00
ATOM	631	CB	ARG	X	42	35.248	48.365	63.958	0.00	0.00
ATOM	632	HB2	ARG	X	42	35.582	49.397	64.062	0.00	0.00

ATOM	633	HB3	ARG	X	42	34.766	48.098	64.898	0.00	0.00
ATOM	634	CG	ARG	X	42	36.376	47.347	63.795	0.00	0.00
ATOM	635	HG2	ARG	X	42	35.905	46.377	63.639	0.00	0.00
ATOM	636	HG3	ARG	X	42	36.909	47.640	62.890	0.00	0.00
ATOM	637	CD	ARG	X	42	37.331	47.219	64.970	0.00	0.00
ATOM	638	HD2	ARG	X	42	36.787	46.854	65.841	0.00	0.00
ATOM	639	HD3	ARG	X	42	38.106	46.513	64.673	0.00	0.00
ATOM	640	NE	ARG	X	42	37.919	48.501	65.316	0.00	0.00
ATOM	641	HE	ARG	X	42	37.815	49.277	64.678	0.00	0.00
ATOM	642	CZ	ARG	X	42	38.681	48.716	66.397	0.00	0.00
ATOM	643	NH1	ARG	X	42	38.952	47.782	67.272	0.00	0.00
ATOM	644	HH11	ARG	X	42	38.425	46.921	67.275	0.00	0.00
ATOM	645	HH12	ARG	X	42	39.546	48.001	68.058	0.00	0.00
ATOM	646	NH2	ARG	X	42	39.067	49.979	66.510	0.00	0.00
ATOM	647	HH21	ARG	X	42	38.782	50.608	65.773	0.00	0.00
ATOM	648	HH22	ARG	X	42	39.583	50.224	67.343	0.00	0.00
ATOM	649	C	ARG	X	42	33.419	46.995	63.049	0.00	0.00
ATOM	650	O	ARG	X	42	32.727	46.755	64.046	0.00	0.00
ATOM	651	N	PHE	X	43	33.518	46.232	61.966	0.00	0.00
ATOM	652	H	PHE	X	43	34.295	46.452	61.359	0.00	0.00
ATOM	653	CA	PHE	X	43	32.719	45.088	61.637	0.00	0.00
ATOM	654	HA	PHE	X	43	33.206	44.594	60.796	0.00	0.00
ATOM	655	CB	PHE	X	43	32.748	44.054	62.805	0.00	0.00
ATOM	656	HB2	PHE	X	43	31.994	44.169	63.583	0.00	0.00
ATOM	657	HB3	PHE	X	43	32.423	43.139	62.311	0.00	0.00
ATOM	658	CG	PHE	X	43	34.121	43.898	63.520	0.00	0.00
ATOM	659	CD1	PHE	X	43	35.353	43.799	62.741	0.00	0.00
ATOM	660	HD1	PHE	X	43	35.272	43.787	61.664	0.00	0.00
ATOM	661	CE1	PHE	X	43	36.555	43.660	63.455	0.00	0.00
ATOM	662	HE1	PHE	X	43	37.531	43.695	62.993	0.00	0.00
ATOM	663	CZ	PHE	X	43	36.593	43.739	64.871	0.00	0.00
ATOM	664	HZ	PHE	X	43	37.524	43.710	65.418	0.00	0.00
ATOM	665	CE2	PHE	X	43	35.409	43.951	65.609	0.00	0.00
ATOM	666	HE2	PHE	X	43	35.461	44.060	66.683	0.00	0.00
ATOM	667	CD2	PHE	X	43	34.184	43.854	64.926	0.00	0.00
ATOM	668	HD2	PHE	X	43	33.248	43.875	65.463	0.00	0.00
ATOM	669	C	PHE	X	43	31.241	45.402	61.313	0.00	0.00
ATOM	670	O	PHE	X	43	30.449	44.518	61.217	0.00	0.00
ATOM	671	N	LEU	X	44	30.798	46.732	61.212	0.00	0.00
ATOM	672	H	LEU	X	44	31.420	47.524	61.290	0.00	0.00
ATOM	673	CA	LEU	X	44	29.436	47.093	60.859	0.00	0.00
ATOM	674	HA	LEU	X	44	28.813	46.207	60.740	0.00	0.00
ATOM	675	CB	LEU	X	44	28.856	48.016	61.949	0.00	0.00
ATOM	676	HB2	LEU	X	44	29.655	48.616	62.384	0.00	0.00
ATOM	677	HB3	LEU	X	44	28.093	48.648	61.494	0.00	0.00
ATOM	678	CG	LEU	X	44	28.234	47.216	63.175	0.00	0.00
ATOM	679	HG	LEU	X	44	28.978	46.522	63.564	0.00	0.00
ATOM	680	CD1	LEU	X	44	27.957	48.248	64.227	0.00	0.00
ATOM	681	HD11	LEU	X	44	28.857	48.504	64.786	0.00	0.00
ATOM	682	HD12	LEU	X	44	27.329	49.101	63.970	0.00	0.00
ATOM	683	HD13	LEU	X	44	27.417	47.865	65.094	0.00	0.00
ATOM	684	CD2	LEU	X	44	26.842	46.584	62.804	0.00	0.00
ATOM	685	HD21	LEU	X	44	26.179	47.423	62.598	0.00	0.00
ATOM	686	HD22	LEU	X	44	26.934	45.890	61.968	0.00	0.00
ATOM	687	HD23	LEU	X	44	26.376	46.157	63.692	0.00	0.00
ATOM	688	C	LEU	X	44	29.439	47.794	59.473	0.00	0.00
ATOM	689	O	LEU	X	44	30.464	48.102	58.926	0.00	0.00
ATOM	690	N	PRO	X	45	28.273	47.867	58.769	0.00	0.00
ATOM	691	CD	PRO	X	45	27.033	47.161	59.065	0.00	0.00
ATOM	692	HD2	PRO	X	45	26.474	47.402	59.969	0.00	0.00
ATOM	693	HD3	PRO	X	45	27.217	46.094	59.196	0.00	0.00
ATOM	694	CG	PRO	X	45	26.180	47.259	57.775	0.00	0.00
ATOM	695	HG2	PRO	X	45	25.130	47.307	58.065	0.00	0.00
ATOM	696	HG3	PRO	X	45	26.448	46.436	57.113	0.00	0.00
ATOM	697	CB	PRO	X	45	26.628	48.616	57.249	0.00	0.00
ATOM	698	HB2	PRO	X	45	25.976	49.376	57.679	0.00	0.00
ATOM	699	HB3	PRO	X	45	26.526	48.682	56.165	0.00	0.00
ATOM	700	CA	PRO	X	45	28.063	48.701	57.592	0.00	0.00
ATOM	701	HA	PRO	X	45	28.596	48.166	56.807	0.00	0.00
ATOM	702	C	PRO	X	45	28.524	50.202	57.635	0.00	0.00

ATOM	703	O	PRO	X	45	28.431	50.744	58.740	0.00	0.00
ATOM	704	N	PRO	X	46	28.841	50.808	56.506	0.00	0.00
ATOM	705	CD	PRO	X	46	29.211	50.102	55.285	0.00	0.00
ATOM	706	HD2	PRO	X	46	28.435	49.503	54.809	0.00	0.00
ATOM	707	HD3	PRO	X	46	30.016	49.423	55.568	0.00	0.00
ATOM	708	CG	PRO	X	46	29.716	51.172	54.260	0.00	0.00
ATOM	709	HG2	PRO	X	46	28.853	51.553	53.713	0.00	0.00
ATOM	710	HG3	PRO	X	46	30.582	50.770	53.735	0.00	0.00
ATOM	711	CB	PRO	X	46	30.245	52.196	55.316	0.00	0.00
ATOM	712	HB2	PRO	X	46	30.434	53.183	54.893	0.00	0.00
ATOM	713	HB3	PRO	X	46	31.194	51.820	55.700	0.00	0.00
ATOM	714	CA	PRO	X	46	29.211	52.258	56.430	0.00	0.00
ATOM	715	HA	PRO	X	46	29.614	52.626	57.374	0.00	0.00
ATOM	716	C	PRO	X	46	28.003	53.183	56.071	0.00	0.00
ATOM	717	O	PRO	X	46	27.022	52.655	55.558	0.00	0.00
ATOM	718	N	GLU	X	47	28.048	54.511	56.258	0.00	0.00
ATOM	719	H	GLU	X	47	28.931	54.896	56.559	0.00	0.00
ATOM	720	CA	GLU	X	47	27.156	55.472	55.692	0.00	0.00
ATOM	721	HA	GLU	X	47	26.333	54.951	55.201	0.00	0.00
ATOM	722	CB	GLU	X	47	26.779	56.507	56.772	0.00	0.00
ATOM	723	HB2	GLU	X	47	27.590	56.851	57.413	0.00	0.00
ATOM	724	HB3	GLU	X	47	26.627	57.433	56.218	0.00	0.00
ATOM	725	CG	GLU	X	47	25.640	56.047	57.644	0.00	0.00
ATOM	726	HG2	GLU	X	47	24.702	55.927	57.100	0.00	0.00
ATOM	727	HG3	GLU	X	47	25.770	55.019	57.983	0.00	0.00
ATOM	728	CD	GLU	X	47	25.364	56.948	58.876	0.00	0.00
ATOM	729	OE1	GLU	X	47	24.630	57.906	58.620	0.00	0.00
ATOM	730	OE2	GLU	X	47	25.746	56.713	60.046	0.00	0.00
ATOM	731	C	GLU	X	47	27.867	56.311	54.617	0.00	0.00
ATOM	732	O	GLU	X	47	29.091	56.324	54.606	0.00	0.00
ATOM	733	N	PRO	X	48	27.155	56.968	53.691	0.00	0.00
ATOM	734	CD	PRO	X	48	25.717	56.833	53.405	0.00	0.00
ATOM	735	HD2	PRO	X	48	25.085	56.990	54.279	0.00	0.00
ATOM	736	HD3	PRO	X	48	25.406	55.851	53.049	0.00	0.00
ATOM	737	CG	PRO	X	48	25.235	57.950	52.445	0.00	0.00
ATOM	738	HG2	PRO	X	48	25.201	58.916	52.948	0.00	0.00
ATOM	739	HG3	PRO	X	48	24.366	57.637	51.866	0.00	0.00
ATOM	740	CB	PRO	X	48	26.470	57.998	51.536	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.515	58.988	51.084	0.00	0.00
ATOM	742	HB3	PRO	X	48	26.585	57.121	50.899	0.00	0.00
ATOM	743	CA	PRO	X	48	27.623	57.827	52.553	0.00	0.00
ATOM	744	HA	PRO	X	48	28.432	57.340	52.009	0.00	0.00
ATOM	745	C	PRO	X	48	28.138	59.112	53.157	0.00	0.00
ATOM	746	O	PRO	X	48	27.531	59.629	54.111	0.00	0.00
ATOM	747	N	LYS	X	49	29.190	59.648	52.635	0.00	0.00
ATOM	748	H	LYS	X	49	29.480	59.271	51.743	0.00	0.00
ATOM	749	CA	LYS	X	49	29.863	60.901	53.019	0.00	0.00
ATOM	750	HA	LYS	X	49	30.348	60.609	53.950	0.00	0.00
ATOM	751	CB	LYS	X	49	31.015	61.114	51.965	0.00	0.00
ATOM	752	HB2	LYS	X	49	31.593	60.193	51.891	0.00	0.00
ATOM	753	HB3	LYS	X	49	30.572	61.255	50.980	0.00	0.00
ATOM	754	CG	LYS	X	49	31.921	62.379	52.256	0.00	0.00
ATOM	755	HG2	LYS	X	49	32.779	62.448	51.587	0.00	0.00
ATOM	756	HG3	LYS	X	49	31.368	63.318	52.244	0.00	0.00
ATOM	757	CD	LYS	X	49	32.564	62.272	53.724	0.00	0.00
ATOM	758	HD2	LYS	X	49	31.830	62.381	54.522	0.00	0.00
ATOM	759	HD3	LYS	X	49	33.138	61.346	53.736	0.00	0.00
ATOM	760	CE	LYS	X	49	33.557	63.382	53.888	0.00	0.00
ATOM	761	HE2	LYS	X	49	34.378	63.303	53.175	0.00	0.00
ATOM	762	HE3	LYS	X	49	33.018	64.310	53.699	0.00	0.00
ATOM	763	NZ	LYS	X	49	34.062	63.335	55.276	0.00	0.00
ATOM	764	HZ1	LYS	X	49	34.801	62.650	55.351	0.00	0.00
ATOM	765	HZ2	LYS	X	49	34.597	64.176	55.437	0.00	0.00
ATOM	766	HZ3	LYS	X	49	33.430	63.183	56.050	0.00	0.00
ATOM	767	C	LYS	X	49	28.874	62.014	53.256	0.00	0.00
ATOM	768	O	LYS	X	49	27.901	62.217	52.521	0.00	0.00
ATOM	769	N	GLN	X	50	29.049	62.752	54.364	0.00	0.00
ATOM	770	H	GLN	X	50	29.732	62.509	55.067	0.00	0.00
ATOM	771	CA	GLN	X	50	28.519	64.115	54.567	0.00	0.00
ATOM	772	HA	GLN	X	50	27.466	64.174	54.289	0.00	0.00

ATOM	773	CB	GLN	X	50	28.715	64.511	55.988	0.00	0.00
ATOM	774	HB2	GLN	X	50	29.716	64.278	56.351	0.00	0.00
ATOM	775	HB3	GLN	X	50	28.730	65.598	56.066	0.00	0.00
ATOM	776	CG	GLN	X	50	27.732	63.940	56.999	0.00	0.00
ATOM	777	HG2	GLN	X	50	26.781	64.364	56.678	0.00	0.00
ATOM	778	HG3	GLN	X	50	27.542	62.868	56.951	0.00	0.00
ATOM	779	CD	GLN	X	50	28.029	64.393	58.423	0.00	0.00
ATOM	780	OE1	GLN	X	50	27.459	65.391	58.925	0.00	0.00
ATOM	781	NE2	GLN	X	50	28.925	63.640	59.108	0.00	0.00
ATOM	782	HE21	GLN	X	50	28.907	63.825	60.101	0.00	0.00
ATOM	783	HE22	GLN	X	50	28.985	62.672	58.824	0.00	0.00
ATOM	784	C	GLN	X	50	29.095	65.130	53.534	0.00	0.00
ATOM	785	O	GLN	X	50	30.302	65.130	53.255	0.00	0.00
ATOM	786	N	PRO	X	51	28.206	65.944	52.848	0.00	0.00
ATOM	787	CD	PRO	X	51	26.754	66.214	53.142	0.00	0.00
ATOM	788	HD2	PRO	X	51	26.653	66.548	54.175	0.00	0.00
ATOM	789	HD3	PRO	X	51	26.157	65.361	52.819	0.00	0.00
ATOM	790	CG	PRO	X	51	26.365	67.334	52.130	0.00	0.00
ATOM	791	HG2	PRO	X	51	26.570	68.324	52.537	0.00	0.00
ATOM	792	HG3	PRO	X	51	25.300	67.290	51.902	0.00	0.00
ATOM	793	CB	PRO	X	51	27.265	67.217	50.958	0.00	0.00
ATOM	794	HB2	PRO	X	51	27.412	68.138	50.394	0.00	0.00
ATOM	795	HB3	PRO	X	51	27.046	66.422	50.245	0.00	0.00
ATOM	796	CA	PRO	X	51	28.536	66.761	51.649	0.00	0.00
ATOM	797	HA	PRO	X	51	29.162	66.315	50.876	0.00	0.00
ATOM	798	C	PRO	X	51	29.430	67.952	52.027	0.00	0.00
ATOM	799	O	PRO	X	51	29.410	68.460	53.149	0.00	0.00
ATOM	800	N	TRP	X	52	30.309	68.385	51.144	0.00	0.00
ATOM	801	H	TRP	X	52	30.212	68.041	50.200	0.00	0.00
ATOM	802	CA	TRP	X	52	31.285	69.496	51.349	0.00	0.00
ATOM	803	HA	TRP	X	52	31.349	69.745	52.408	0.00	0.00
ATOM	804	CB	TRP	X	52	32.698	68.916	51.077	0.00	0.00
ATOM	805	HB2	TRP	X	52	33.477	69.639	51.323	0.00	0.00
ATOM	806	HB3	TRP	X	52	32.782	68.106	51.801	0.00	0.00
ATOM	807	CG	TRP	X	52	32.974	68.269	49.762	0.00	0.00
ATOM	808	CD1	TRP	X	52	33.570	68.859	48.670	0.00	0.00
ATOM	809	HD1	TRP	X	52	34.028	69.832	48.768	0.00	0.00
ATOM	810	NE1	TRP	X	52	33.742	67.935	47.653	0.00	0.00
ATOM	811	HE1	TRP	X	52	34.320	68.041	46.831	0.00	0.00
ATOM	812	CE2	TRP	X	52	33.018	66.772	47.959	0.00	0.00
ATOM	813	CZ2	TRP	X	52	32.854	65.585	47.313	0.00	0.00
ATOM	814	HZ2	TRP	X	52	33.199	65.526	46.292	0.00	0.00
ATOM	815	CH2	TRP	X	52	31.942	64.603	47.828	0.00	0.00
ATOM	816	HH2	TRP	X	52	31.467	63.833	47.239	0.00	0.00
ATOM	817	CZ3	TRP	X	52	31.565	64.778	49.158	0.00	0.00
ATOM	818	HZ3	TRP	X	52	31.049	63.941	49.604	0.00	0.00
ATOM	819	CE3	TRP	X	52	31.984	65.885	49.872	0.00	0.00
ATOM	820	HE3	TRP	X	52	31.538	65.936	50.854	0.00	0.00
ATOM	821	CD2	TRP	X	52	32.663	66.924	49.293	0.00	0.00
ATOM	822	C	TRP	X	52	30.864	70.696	50.527	0.00	0.00
ATOM	823	O	TRP	X	52	30.182	70.566	49.492	0.00	0.00
ATOM	824	N	SER	X	53	31.193	71.869	51.052	0.00	0.00
ATOM	825	H	SER	X	53	31.548	71.934	51.995	0.00	0.00
ATOM	826	CA	SER	X	53	30.883	73.223	50.540	0.00	0.00
ATOM	827	HA	SER	X	53	29.994	73.113	49.919	0.00	0.00
ATOM	828	CB	SER	X	53	30.610	74.185	51.756	0.00	0.00
ATOM	829	HB2	SER	X	53	31.518	74.171	52.359	0.00	0.00
ATOM	830	HB3	SER	X	53	30.411	75.144	51.277	0.00	0.00
ATOM	831	OG	SER	X	53	29.428	73.795	52.464	0.00	0.00
ATOM	832	HG	SER	X	53	29.309	74.455	53.151	0.00	0.00
ATOM	833	C	SER	X	53	31.975	73.676	49.592	0.00	0.00
ATOM	834	O	SER	X	53	31.741	74.233	48.526	0.00	0.00
ATOM	835	N	GLY	X	54	33.234	73.503	50.059	0.00	0.00
ATOM	836	H	GLY	X	54	33.258	73.016	50.943	0.00	0.00
ATOM	837	CA	GLY	X	54	34.437	73.879	49.284	0.00	0.00
ATOM	838	HA2	GLY	X	54	34.209	74.828	48.861	0.00	0.00
ATOM	839	HA3	GLY	X	54	35.377	73.964	49.935	0.00	0.00
ATOM	840	C	GLY	X	54	34.702	72.970	48.100	0.00	0.00
ATOM	841	O	GLY	X	54	33.908	72.128	47.714	0.00	0.00
ATOM	842	N	VAL	X	55	35.959	73.064	47.618	0.00	0.00

ATOM	843	H	VAL	X	55	36.547	73.819	47.940	0.00	0.00
ATOM	844	CA	VAL	X	55	36.528	72.081	46.593	0.00	0.00
ATOM	845	HA	VAL	X	55	35.732	71.487	46.145	0.00	0.00
ATOM	846	CB	VAL	X	55	37.306	72.834	45.414	0.00	0.00
ATOM	847	HB	VAL	X	55	36.455	73.365	44.988	0.00	0.00
ATOM	848	CG1	VAL	X	55	38.242	73.877	45.877	0.00	0.00
ATOM	849	HG11	VAL	X	55	37.812	74.673	46.485	0.00	0.00
ATOM	850	HG12	VAL	X	55	39.159	73.453	46.284	0.00	0.00
ATOM	851	HG13	VAL	X	55	38.558	74.344	44.944	0.00	0.00
ATOM	852	CG2	VAL	X	55	38.031	71.903	44.437	0.00	0.00
ATOM	853	HG21	VAL	X	55	38.708	72.519	43.844	0.00	0.00
ATOM	854	HG22	VAL	X	55	38.474	71.056	44.961	0.00	0.00
ATOM	855	HG23	VAL	X	55	37.256	71.509	43.780	0.00	0.00
ATOM	856	C	VAL	X	55	37.460	71.152	47.353	0.00	0.00
ATOM	857	O	VAL	X	55	38.441	71.562	47.949	0.00	0.00
ATOM	858	N	VAL	X	56	37.143	69.838	47.320	0.00	0.00
ATOM	859	H	VAL	X	56	36.380	69.460	46.777	0.00	0.00
ATOM	860	CA	VAL	X	56	37.996	68.807	47.994	0.00	0.00
ATOM	861	HA	VAL	X	56	38.493	69.200	48.881	0.00	0.00
ATOM	862	CB	VAL	X	56	37.129	67.641	48.501	0.00	0.00
ATOM	863	HB	VAL	X	56	36.354	67.356	47.789	0.00	0.00
ATOM	864	CG1	VAL	X	56	38.000	66.418	48.742	0.00	0.00
ATOM	865	HG11	VAL	X	56	37.426	65.600	49.179	0.00	0.00
ATOM	866	HG12	VAL	X	56	38.398	66.148	47.764	0.00	0.00
ATOM	867	HG13	VAL	X	56	38.763	66.678	49.476	0.00	0.00
ATOM	868	CG2	VAL	X	56	36.567	67.972	49.900	0.00	0.00
ATOM	869	HG21	VAL	X	56	37.304	67.859	50.695	0.00	0.00
ATOM	870	HG22	VAL	X	56	36.176	68.984	50.000	0.00	0.00
ATOM	871	HG23	VAL	X	56	35.763	67.295	50.191	0.00	0.00
ATOM	872	C	VAL	X	56	39.102	68.466	46.930	0.00	0.00
ATOM	873	O	VAL	X	56	38.774	68.152	45.773	0.00	0.00
ATOM	874	N	ASP	X	57	40.355	68.472	47.364	0.00	0.00
ATOM	875	H	ASP	X	57	40.495	68.692	48.340	0.00	0.00
ATOM	876	CA	ASP	X	57	41.537	67.960	46.616	0.00	0.00
ATOM	877	HA	ASP	X	57	41.537	68.555	45.703	0.00	0.00
ATOM	878	CB	ASP	X	57	42.781	68.170	47.437	0.00	0.00
ATOM	879	HB2	ASP	X	57	42.794	69.154	47.906	0.00	0.00
ATOM	880	HB3	ASP	X	57	42.788	67.478	48.279	0.00	0.00
ATOM	881	CG	ASP	X	57	44.077	67.913	46.700	0.00	0.00
ATOM	882	OD1	ASP	X	57	44.939	68.822	46.649	0.00	0.00
ATOM	883	OD2	ASP	X	57	44.276	66.784	46.275	0.00	0.00
ATOM	884	C	ASP	X	57	41.297	66.481	46.342	0.00	0.00
ATOM	885	O	ASP	X	57	41.242	65.650	47.296	0.00	0.00
ATOM	886	N	ALA	X	58	41.349	66.139	45.059	0.00	0.00
ATOM	887	H	ALA	X	58	41.293	66.893	44.389	0.00	0.00
ATOM	888	CA	ALA	X	58	41.413	64.777	44.606	0.00	0.00
ATOM	889	HA	ALA	X	58	41.538	64.202	45.524	0.00	0.00
ATOM	890	CB	ALA	X	58	40.060	64.465	43.932	0.00	0.00
ATOM	891	HB1	ALA	X	58	39.321	64.496	44.732	0.00	0.00
ATOM	892	HB2	ALA	X	58	39.829	65.184	43.146	0.00	0.00
ATOM	893	HB3	ALA	X	58	40.149	63.484	43.465	0.00	0.00
ATOM	894	C	ALA	X	58	42.633	64.529	43.754	0.00	0.00
ATOM	895	O	ALA	X	58	42.672	63.986	42.616	0.00	0.00
ATOM	896	N	THR	X	59	43.786	64.970	44.260	0.00	0.00
ATOM	897	H	THR	X	59	43.781	65.582	45.064	0.00	0.00
ATOM	898	CA	THR	X	59	45.021	65.039	43.464	0.00	0.00
ATOM	899	HA	THR	X	59	44.810	64.952	42.398	0.00	0.00
ATOM	900	CB	THR	X	59	45.778	66.369	43.664	0.00	0.00
ATOM	901	HB	THR	X	59	46.617	66.412	42.969	0.00	0.00
ATOM	902	CG2	THR	X	59	44.890	67.582	43.458	0.00	0.00
ATOM	903	HG21	THR	X	59	44.851	67.699	42.375	0.00	0.00
ATOM	904	HG22	THR	X	59	43.904	67.586	43.923	0.00	0.00
ATOM	905	HG23	THR	X	59	45.317	68.503	43.852	0.00	0.00
ATOM	906	OG1	THR	X	59	46.401	66.467	44.901	0.00	0.00
ATOM	907	HG1	THR	X	59	45.682	66.662	45.507	0.00	0.00
ATOM	908	C	THR	X	59	45.951	63.878	43.617	0.00	0.00
ATOM	909	O	THR	X	59	46.993	63.892	42.868	0.00	0.00
ATOM	910	N	THR	X	60	45.622	62.957	44.540	0.00	0.00
ATOM	911	H	THR	X	60	44.753	63.120	45.030	0.00	0.00
ATOM	912	CA	THR	X	60	46.454	61.864	44.945	0.00	0.00

ATOM	913	HA	THR	X	60	46.719	61.319	44.039	0.00	0.00
ATOM	914	CB	THR	X	60	47.793	62.343	45.562	0.00	0.00
ATOM	915	HB	THR	X	60	48.190	63.202	45.020	0.00	0.00
ATOM	916	CG2	THR	X	60	47.683	62.800	47.009	0.00	0.00
ATOM	917	HG21	THR	X	60	48.530	63.390	47.357	0.00	0.00
ATOM	918	HG22	THR	X	60	46.750	63.352	47.128	0.00	0.00
ATOM	919	HG23	THR	X	60	47.618	61.906	47.628	0.00	0.00
ATOM	920	OG1	THR	X	60	48.696	61.265	45.453	0.00	0.00
ATOM	921	HG1	THR	X	60	49.588	61.596	45.579	0.00	0.00
ATOM	922	C	THR	X	60	45.666	60.941	45.835	0.00	0.00
ATOM	923	O	THR	X	60	44.587	61.257	46.297	0.00	0.00
ATOM	924	N	PHE	X	61	46.255	59.790	46.108	0.00	0.00
ATOM	925	H	PHE	X	61	47.216	59.611	45.853	0.00	0.00
ATOM	926	CA	PHE	X	61	45.705	58.817	46.986	0.00	0.00
ATOM	927	HA	PHE	X	61	44.655	58.644	46.750	0.00	0.00
ATOM	928	CB	PHE	X	61	46.457	57.465	46.773	0.00	0.00
ATOM	929	HB2	PHE	X	61	47.495	57.508	47.103	0.00	0.00
ATOM	930	HB3	PHE	X	61	45.975	56.716	47.400	0.00	0.00
ATOM	931	CG	PHE	X	61	46.449	56.960	45.344	0.00	0.00
ATOM	932	CD1	PHE	X	61	45.209	56.513	44.784	0.00	0.00
ATOM	933	HD1	PHE	X	61	44.361	56.430	45.447	0.00	0.00
ATOM	934	CE1	PHE	X	61	45.103	56.078	43.449	0.00	0.00
ATOM	935	HE1	PHE	X	61	44.156	55.754	43.043	0.00	0.00
ATOM	936	CZ	PHE	X	61	46.232	55.952	42.657	0.00	0.00
ATOM	937	HZ	PHE	X	61	46.060	55.636	41.638	0.00	0.00
ATOM	938	CE2	PHE	X	61	47.513	56.305	43.223	0.00	0.00
ATOM	939	HE2	PHE	X	61	48.473	56.104	42.772	0.00	0.00
ATOM	940	CD2	PHE	X	61	47.574	56.884	44.499	0.00	0.00
ATOM	941	HD2	PHE	X	61	48.506	57.221	44.929	0.00	0.00
ATOM	942	C	PHE	X	61	45.613	59.291	48.499	0.00	0.00
ATOM	943	O	PHE	X	61	46.144	60.393	48.914	0.00	0.00
ATOM	944	N	GLN	X	62	45.067	58.381	49.324	0.00	0.00
ATOM	945	H	GLN	X	62	45.136	57.427	48.997	0.00	0.00
ATOM	946	CA	GLN	X	62	44.724	58.473	50.741	0.00	0.00
ATOM	947	HA	GLN	X	62	45.088	59.330	51.308	0.00	0.00
ATOM	948	CB	GLN	X	62	43.193	58.387	50.779	0.00	0.00
ATOM	949	HB2	GLN	X	62	42.776	57.488	50.326	0.00	0.00
ATOM	950	HB3	GLN	X	62	43.025	58.291	51.852	0.00	0.00
ATOM	951	CG	GLN	X	62	42.529	59.593	50.158	0.00	0.00
ATOM	952	HG2	GLN	X	62	42.877	59.770	49.140	0.00	0.00
ATOM	953	HG3	GLN	X	62	41.486	59.311	50.016	0.00	0.00
ATOM	954	CD	GLN	X	62	42.625	60.869	50.952	0.00	0.00
ATOM	955	OE1	GLN	X	62	42.968	60.903	52.155	0.00	0.00
ATOM	956	NE2	GLN	X	62	42.481	62.015	50.279	0.00	0.00
ATOM	957	HE21	GLN	X	62	42.454	62.807	50.905	0.00	0.00
ATOM	958	HE22	GLN	X	62	42.242	62.096	49.301	0.00	0.00
ATOM	959	C	GLN	X	62	45.350	57.320	51.514	0.00	0.00
ATOM	960	O	GLN	X	62	46.023	56.499	50.887	0.00	0.00
ATOM	961	N	SER	X	63	45.093	57.206	52.828	0.00	0.00
ATOM	962	H	SER	X	63	44.478	57.827	53.333	0.00	0.00
ATOM	963	CA	SER	X	63	45.249	56.010	53.565	0.00	0.00
ATOM	964	HA	SER	X	63	46.311	55.785	53.467	0.00	0.00
ATOM	965	CB	SER	X	63	44.949	56.135	55.093	0.00	0.00
ATOM	966	HB2	SER	X	63	43.934	56.533	55.101	0.00	0.00
ATOM	967	HB3	SER	X	63	44.993	55.197	55.645	0.00	0.00
ATOM	968	OG	SER	X	63	45.930	57.007	55.646	0.00	0.00
ATOM	969	HG	SER	X	63	46.641	57.218	55.037	0.00	0.00
ATOM	970	C	SER	X	63	44.523	54.747	53.025	0.00	0.00
ATOM	971	O	SER	X	63	43.719	54.804	52.090	0.00	0.00
ATOM	972	N	VAL	X	64	44.798	53.616	53.624	0.00	0.00
ATOM	973	H	VAL	X	64	45.531	53.642	54.319	0.00	0.00
ATOM	974	CA	VAL	X	64	44.107	52.302	53.225	0.00	0.00
ATOM	975	HA	VAL	X	64	43.173	52.580	52.736	0.00	0.00
ATOM	976	CB	VAL	X	64	44.859	51.504	52.168	0.00	0.00
ATOM	977	HB	VAL	X	64	45.038	52.258	51.401	0.00	0.00
ATOM	978	CG1	VAL	X	64	46.121	50.806	52.680	0.00	0.00
ATOM	979	HG11	VAL	X	64	46.542	50.185	51.889	0.00	0.00
ATOM	980	HG12	VAL	X	64	46.856	51.553	52.978	0.00	0.00
ATOM	981	HG13	VAL	X	64	45.847	50.225	53.561	0.00	0.00
ATOM	982	CG2	VAL	X	64	43.933	50.564	51.382	0.00	0.00

ATOM	983	HG21	VAL	X	64	43.950	49.592	51.874	0.00	0.00
ATOM	984	HG22	VAL	X	64	42.885	50.861	51.388	0.00	0.00
ATOM	985	HG23	VAL	X	64	44.319	50.485	50.366	0.00	0.00
ATOM	986	C	VAL	X	64	43.804	51.423	54.481	0.00	0.00
ATOM	987	O	VAL	X	64	44.325	51.646	55.561	0.00	0.00
ATOM	988	N	CYX	X	65	42.837	50.444	54.249	0.00	0.00
ATOM	989	H	CYX	X	65	42.348	50.413	53.366	0.00	0.00
ATOM	990	CA	CYX	X	65	42.147	49.735	55.348	0.00	0.00
ATOM	991	HA	CYX	X	65	41.551	50.365	56.009	0.00	0.00
ATOM	992	CB	CYX	X	65	41.012	48.917	54.756	0.00	0.00
ATOM	993	HB2	CYX	X	65	41.480	48.204	54.078	0.00	0.00
ATOM	994	HB3	CYX	X	65	40.528	48.276	55.493	0.00	0.00
ATOM	995	SG	CYX	X	65	39.710	49.864	53.840	0.00	0.00
ATOM	996	C	CYX	X	65	43.035	48.836	56.126	0.00	0.00
ATOM	997	O	CYX	X	65	43.899	48.056	55.616	0.00	0.00
ATOM	998	N	TYR	X	66	42.845	48.797	57.455	0.00	0.00
ATOM	999	H	TYR	X	66	42.136	49.445	57.768	0.00	0.00
ATOM	1000	CA	TYR	X	66	43.452	47.836	58.378	0.00	0.00
ATOM	1001	HA	TYR	X	66	44.532	47.962	58.300	0.00	0.00
ATOM	1002	CB	TYR	X	66	42.988	48.182	59.861	0.00	0.00
ATOM	1003	HB2	TYR	X	66	42.026	48.690	59.923	0.00	0.00
ATOM	1004	HB3	TYR	X	66	43.003	47.250	60.428	0.00	0.00
ATOM	1005	CG	TYR	X	66	43.872	49.229	60.556	0.00	0.00
ATOM	1006	CD1	TYR	X	66	43.285	50.462	60.998	0.00	0.00
ATOM	1007	HD1	TYR	X	66	42.239	50.632	60.795	0.00	0.00
ATOM	1008	CE1	TYR	X	66	44.046	51.468	61.628	0.00	0.00
ATOM	1009	HE1	TYR	X	66	43.536	52.368	61.939	0.00	0.00
ATOM	1010	CZ	TYR	X	66	45.428	51.164	61.699	0.00	0.00
ATOM	1011	OH	TYR	X	66	46.310	52.018	62.227	0.00	0.00
ATOM	1012	HH	TYR	X	66	45.880	52.842	62.464	0.00	0.00
ATOM	1013	CE2	TYR	X	66	46.051	49.972	61.215	0.00	0.00
ATOM	1014	HE2	TYR	X	66	47.126	49.894	61.293	0.00	0.00
ATOM	1015	CD2	TYR	X	66	45.263	48.968	60.733	0.00	0.00
ATOM	1016	HD2	TYR	X	66	45.690	48.037	60.388	0.00	0.00
ATOM	1017	C	TYR	X	66	43.199	46.352	57.988	0.00	0.00
ATOM	1018	O	TYR	X	66	42.092	45.898	57.739	0.00	0.00
ATOM	1019	N	GLN	X	67	44.344	45.606	57.880	0.00	0.00
ATOM	1020	H	GLN	X	67	45.211	45.940	58.275	0.00	0.00
ATOM	1021	CA	GLN	X	67	44.469	44.365	57.108	0.00	0.00
ATOM	1022	HA	GLN	X	67	43.606	43.721	57.280	0.00	0.00
ATOM	1023	CB	GLN	X	67	44.673	44.741	55.645	0.00	0.00
ATOM	1024	HB2	GLN	X	67	44.681	43.782	55.127	0.00	0.00
ATOM	1025	HB3	GLN	X	67	43.839	45.386	55.369	0.00	0.00
ATOM	1026	CG	GLN	X	67	45.944	45.552	55.136	0.00	0.00
ATOM	1027	HG2	GLN	X	67	46.062	46.537	55.589	0.00	0.00
ATOM	1028	HG3	GLN	X	67	46.861	45.013	55.371	0.00	0.00
ATOM	1029	CD	GLN	X	67	45.849	45.736	53.591	0.00	0.00
ATOM	1030	OE1	GLN	X	67	46.346	44.894	52.876	0.00	0.00
ATOM	1031	NE2	GLN	X	67	45.328	46.866	53.145	0.00	0.00
ATOM	1032	HE21	GLN	X	67	45.382	47.019	52.148	0.00	0.00
ATOM	1033	HE22	GLN	X	67	44.871	47.532	53.751	0.00	0.00
ATOM	1034	C	GLN	X	67	45.695	43.584	57.587	0.00	0.00
ATOM	1035	O	GLN	X	67	46.531	44.161	58.204	0.00	0.00
ATOM	1036	N	TYR	X	68	45.794	42.308	57.180	0.00	0.00
ATOM	1037	H	TYR	X	68	45.019	41.871	56.703	0.00	0.00
ATOM	1038	CA	TYR	X	68	46.918	41.447	57.334	0.00	0.00
ATOM	1039	HA	TYR	X	68	47.479	41.692	58.236	0.00	0.00
ATOM	1040	CB	TYR	X	68	46.526	39.980	57.502	0.00	0.00
ATOM	1041	HB2	TYR	X	68	45.611	39.903	58.091	0.00	0.00
ATOM	1042	HB3	TYR	X	68	46.300	39.682	56.478	0.00	0.00
ATOM	1043	CG	TYR	X	68	47.740	39.228	58.150	0.00	0.00
ATOM	1044	CD1	TYR	X	68	48.011	39.416	59.515	0.00	0.00
ATOM	1045	HD1	TYR	X	68	47.335	40.045	60.076	0.00	0.00
ATOM	1046	CE1	TYR	X	68	49.148	38.772	60.077	0.00	0.00
ATOM	1047	HE1	TYR	X	68	49.341	38.706	61.138	0.00	0.00
ATOM	1048	CZ	TYR	X	68	50.050	38.063	59.253	0.00	0.00
ATOM	1049	OH	TYR	X	68	51.128	37.408	59.807	0.00	0.00
ATOM	1050	HH	TYR	X	68	51.063	37.326	60.762	0.00	0.00
ATOM	1051	CE2	TYR	X	68	49.815	38.025	57.900	0.00	0.00
ATOM	1052	HE2	TYR	X	68	50.520	37.500	57.273	0.00	0.00

ATOM	1053	CD2	TYR	X	68	48.708	38.572	57.299	0.00	0.00
ATOM	1054	HD2	TYR	X	68	48.536	38.499	56.235	0.00	0.00
ATOM	1055	C	TYR	X	68	47.956	41.718	56.239	0.00	0.00
ATOM	1056	O	TYR	X	68	47.652	41.571	55.070	0.00	0.00
ATOM	1057	N	VAL	X	69	49.131	42.309	56.564	0.00	0.00
ATOM	1058	H	VAL	X	69	49.289	42.522	57.538	0.00	0.00
ATOM	1059	CA	VAL	X	69	50.112	42.711	55.580	0.00	0.00
ATOM	1060	HA	VAL	X	69	49.627	43.050	54.664	0.00	0.00
ATOM	1061	CB	VAL	X	69	50.864	43.958	56.068	0.00	0.00
ATOM	1062	HB	VAL	X	69	51.155	43.735	57.094	0.00	0.00
ATOM	1063	CG1	VAL	X	69	52.122	44.136	55.240	0.00	0.00
ATOM	1064	HG11	VAL	X	69	52.463	45.137	55.503	0.00	0.00
ATOM	1065	HG12	VAL	X	69	52.726	43.282	55.546	0.00	0.00
ATOM	1066	HG13	VAL	X	69	51.822	44.266	54.200	0.00	0.00
ATOM	1067	CG2	VAL	X	69	49.969	45.217	56.158	0.00	0.00
ATOM	1068	HG21	VAL	X	69	50.329	45.826	56.987	0.00	0.00
ATOM	1069	HG22	VAL	X	69	50.140	45.725	55.209	0.00	0.00
ATOM	1070	HG23	VAL	X	69	48.901	45.070	56.318	0.00	0.00
ATOM	1071	C	VAL	X	69	50.929	41.493	55.108	0.00	0.00
ATOM	1072	O	VAL	X	69	51.719	40.843	55.862	0.00	0.00
ATOM	1073	N	ASP	X	70	50.834	41.191	53.798	0.00	0.00
ATOM	1074	H	ASP	X	70	50.214	41.711	53.194	0.00	0.00
ATOM	1075	CA	ASP	X	70	51.590	40.094	53.226	0.00	0.00
ATOM	1076	HA	ASP	X	70	51.487	39.180	53.812	0.00	0.00
ATOM	1077	CB	ASP	X	70	50.960	39.723	51.889	0.00	0.00
ATOM	1078	HB2	ASP	X	70	49.891	39.586	52.048	0.00	0.00
ATOM	1079	HB3	ASP	X	70	51.052	40.507	51.137	0.00	0.00
ATOM	1080	CG	ASP	X	70	51.459	38.314	51.347	0.00	0.00
ATOM	1081	OD1	ASP	X	70	52.663	38.059	51.388	0.00	0.00
ATOM	1082	OD2	ASP	X	70	50.631	37.473	50.957	0.00	0.00
ATOM	1083	C	ASP	X	70	53.056	40.448	53.046	0.00	0.00
ATOM	1084	O	ASP	X	70	53.419	41.384	52.340	0.00	0.00
ATOM	1085	N	THR	X	71	53.926	39.599	53.621	0.00	0.00
ATOM	1086	H	THR	X	71	53.559	38.863	54.207	0.00	0.00
ATOM	1087	CA	THR	X	71	55.370	39.808	53.634	0.00	0.00
ATOM	1088	HA	THR	X	71	55.660	40.539	52.879	0.00	0.00
ATOM	1089	CB	THR	X	71	55.850	40.409	54.990	0.00	0.00
ATOM	1090	HB	THR	X	71	56.925	40.584	54.957	0.00	0.00
ATOM	1091	CG2	THR	X	71	55.059	41.655	55.465	0.00	0.00
ATOM	1092	HG21	THR	X	71	54.246	41.409	56.148	0.00	0.00
ATOM	1093	HG22	THR	X	71	55.773	42.228	56.056	0.00	0.00
ATOM	1094	HG23	THR	X	71	54.778	42.281	54.619	0.00	0.00
ATOM	1095	OG1	THR	X	71	55.547	39.341	55.940	0.00	0.00
ATOM	1096	HG1	THR	X	71	56.366	38.866	56.100	0.00	0.00
ATOM	1097	C	THR	X	71	56.106	38.548	53.211	0.00	0.00
ATOM	1098	O	THR	X	71	57.270	38.363	53.522	0.00	0.00
ATOM	1099	N	LEU	X	72	55.413	37.655	52.412	0.00	0.00
ATOM	1100	H	LEU	X	72	54.490	37.821	52.037	0.00	0.00
ATOM	1101	CA	LEU	X	72	56.046	36.391	52.026	0.00	0.00
ATOM	1102	HA	LEU	X	72	56.327	35.796	52.895	0.00	0.00
ATOM	1103	CB	LEU	X	72	55.148	35.470	51.261	0.00	0.00
ATOM	1104	HB2	LEU	X	72	54.409	35.167	52.003	0.00	0.00
ATOM	1105	HB3	LEU	X	72	54.547	35.994	50.518	0.00	0.00
ATOM	1106	CG	LEU	X	72	55.697	34.189	50.708	0.00	0.00
ATOM	1107	HG	LEU	X	72	56.506	34.469	50.033	0.00	0.00
ATOM	1108	CD1	LEU	X	72	56.256	33.171	51.834	0.00	0.00
ATOM	1109	HD11	LEU	X	72	55.444	32.942	52.524	0.00	0.00
ATOM	1110	HD12	LEU	X	72	56.644	32.279	51.342	0.00	0.00
ATOM	1111	HD13	LEU	X	72	57.026	33.600	52.475	0.00	0.00
ATOM	1112	CD2	LEU	X	72	54.583	33.470	49.878	0.00	0.00
ATOM	1113	HD21	LEU	X	72	53.562	33.699	50.184	0.00	0.00
ATOM	1114	HD22	LEU	X	72	54.754	33.718	48.831	0.00	0.00
ATOM	1115	HD23	LEU	X	72	54.576	32.408	50.123	0.00	0.00
ATOM	1116	C	LEU	X	72	57.348	36.548	51.282	0.00	0.00
ATOM	1117	O	LEU	X	72	58.417	35.915	51.606	0.00	0.00
ATOM	1118	N	TYR	X	73	57.339	37.424	50.297	0.00	0.00
ATOM	1119	H	TYR	X	73	56.495	37.972	50.215	0.00	0.00
ATOM	1120	CA	TYR	X	73	58.592	37.886	49.555	0.00	0.00
ATOM	1121	HA	TYR	X	73	59.483	37.594	50.110	0.00	0.00
ATOM	1122	CB	TYR	X	73	58.595	37.378	48.123	0.00	0.00

ATOM	1123	HB2	TYR	X	73	57.830	37.883	47.533	0.00	0.00
ATOM	1124	HB3	TYR	X	73	59.539	37.730	47.709	0.00	0.00
ATOM	1125	CG	TYR	X	73	58.437	35.856	48.010	0.00	0.00
ATOM	1126	CD1	TYR	X	73	59.513	35.034	48.340	0.00	0.00
ATOM	1127	HD1	TYR	X	73	60.420	35.331	48.845	0.00	0.00
ATOM	1128	CE1	TYR	X	73	59.438	33.671	48.191	0.00	0.00
ATOM	1129	HE1	TYR	X	73	60.327	33.121	48.462	0.00	0.00
ATOM	1130	CZ	TYR	X	73	58.252	33.065	47.636	0.00	0.00
ATOM	1131	OH	TYR	X	73	58.218	31.677	47.516	0.00	0.00
ATOM	1132	HH	TYR	X	73	58.937	31.323	48.046	0.00	0.00
ATOM	1133	CE2	TYR	X	73	57.173	33.897	47.264	0.00	0.00
ATOM	1134	HE2	TYR	X	73	56.334	33.489	46.720	0.00	0.00
ATOM	1135	CD2	TYR	X	73	57.301	35.285	47.425	0.00	0.00
ATOM	1136	HD2	TYR	X	73	56.517	35.922	47.042	0.00	0.00
ATOM	1137	C	TYR	X	73	58.692	39.454	49.570	0.00	0.00
ATOM	1138	O	TYR	X	73	58.139	40.063	48.654	0.00	0.00
ATOM	1139	N	PRO	X	74	59.220	40.047	50.644	0.00	0.00
ATOM	1140	CD	PRO	X	74	59.943	39.426	51.774	0.00	0.00
ATOM	1141	HD2	PRO	X	74	60.990	39.267	51.517	0.00	0.00
ATOM	1142	HD3	PRO	X	74	59.433	38.501	52.044	0.00	0.00
ATOM	1143	CG	PRO	X	74	59.878	40.428	52.934	0.00	0.00
ATOM	1144	HG2	PRO	X	74	60.646	40.285	53.694	0.00	0.00
ATOM	1145	HG3	PRO	X	74	58.854	40.403	53.306	0.00	0.00
ATOM	1146	CB	PRO	X	74	60.070	41.757	52.164	0.00	0.00
ATOM	1147	HB2	PRO	X	74	61.064	42.161	51.976	0.00	0.00
ATOM	1148	HB3	PRO	X	74	59.496	42.520	52.689	0.00	0.00
ATOM	1149	CA	PRO	X	74	59.343	41.495	50.825	0.00	0.00
ATOM	1150	HA	PRO	X	74	58.349	41.904	51.010	0.00	0.00
ATOM	1151	C	PRO	X	74	60.023	42.120	49.598	0.00	0.00
ATOM	1152	O	PRO	X	74	61.227	41.814	49.265	0.00	0.00
ATOM	1153	N	GLY	X	75	59.313	43.077	48.980	0.00	0.00
ATOM	1154	H	GLY	X	75	58.382	43.273	49.321	0.00	0.00
ATOM	1155	CA	GLY	X	75	59.883	43.850	47.878	0.00	0.00
ATOM	1156	HA2	GLY	X	75	59.514	44.819	47.949	0.00	0.00
ATOM	1157	HA3	GLY	X	75	60.908	43.825	47.980	0.00	0.00
ATOM	1158	C	GLY	X	75	59.737	43.298	46.490	0.00	0.00
ATOM	1159	O	GLY	X	75	60.186	43.983	45.562	0.00	0.00
ATOM	1160	N	PHE	X	76	59.270	42.068	46.336	0.00	0.00
ATOM	1161	H	PHE	X	76	58.817	41.693	47.157	0.00	0.00
ATOM	1162	CA	PHE	X	76	59.083	41.314	45.073	0.00	0.00
ATOM	1163	HA	PHE	X	76	59.902	41.563	44.399	0.00	0.00
ATOM	1164	CB	PHE	X	76	59.252	39.808	45.462	0.00	0.00
ATOM	1165	HB2	PHE	X	76	60.306	39.787	45.738	0.00	0.00
ATOM	1166	HB3	PHE	X	76	58.654	39.634	46.356	0.00	0.00
ATOM	1167	CG	PHE	X	76	59.040	38.647	44.504	0.00	0.00
ATOM	1168	CD1	PHE	X	76	59.880	38.506	43.387	0.00	0.00
ATOM	1169	HD1	PHE	X	76	60.751	39.140	43.318	0.00	0.00
ATOM	1170	CE1	PHE	X	76	59.543	37.613	42.358	0.00	0.00
ATOM	1171	HE1	PHE	X	76	60.195	37.650	41.498	0.00	0.00
ATOM	1172	CZ	PHE	X	76	58.396	36.801	42.348	0.00	0.00
ATOM	1173	HZ	PHE	X	76	58.076	36.185	41.522	0.00	0.00
ATOM	1174	CE2	PHE	X	76	57.676	36.822	43.576	0.00	0.00
ATOM	1175	HE2	PHE	X	76	56.752	36.273	43.677	0.00	0.00
ATOM	1176	CD2	PHE	X	76	57.934	37.779	44.553	0.00	0.00
ATOM	1177	HD2	PHE	X	76	57.285	37.882	45.411	0.00	0.00
ATOM	1178	C	PHE	X	76	57.739	41.491	44.455	0.00	0.00
ATOM	1179	O	PHE	X	76	56.779	41.533	45.164	0.00	0.00
ATOM	1180	N	GLU	X	77	57.670	41.411	43.071	0.00	0.00
ATOM	1181	H	GLU	X	77	58.557	41.250	42.614	0.00	0.00
ATOM	1182	CA	GLU	X	77	56.493	41.745	42.324	0.00	0.00
ATOM	1183	HA	GLU	X	77	56.301	42.813	42.426	0.00	0.00
ATOM	1184	CB	GLU	X	77	56.771	41.515	40.843	0.00	0.00
ATOM	1185	HB2	GLU	X	77	57.648	42.078	40.523	0.00	0.00
ATOM	1186	HB3	GLU	X	77	56.912	40.449	40.667	0.00	0.00
ATOM	1187	CG	GLU	X	77	55.603	41.940	40.109	0.00	0.00
ATOM	1188	HG2	GLU	X	77	54.770	41.269	40.317	0.00	0.00
ATOM	1189	HG3	GLU	X	77	55.261	42.932	40.405	0.00	0.00
ATOM	1190	CD	GLU	X	77	55.867	41.788	38.645	0.00	0.00
ATOM	1191	OE1	GLU	X	77	55.200	40.860	38.079	0.00	0.00
ATOM	1192	OE2	GLU	X	77	56.672	42.522	38.098	0.00	0.00

ATOM	1193	C	GLU	X	77	55.244	40.882	42.740	0.00	0.00
ATOM	1194	O	GLU	X	77	54.135	41.283	43.018	0.00	0.00
ATOM	1195	N	GLY	X	78	55.514	39.562	42.939	0.00	0.00
ATOM	1196	H	GLY	X	78	56.431	39.218	42.694	0.00	0.00
ATOM	1197	CA	GLY	X	78	54.481	38.632	43.264	0.00	0.00
ATOM	1198	HA2	GLY	X	78	53.691	38.833	42.581	0.00	0.00
ATOM	1199	HA3	GLY	X	78	54.921	37.612	43.265	0.00	0.00
ATOM	1200	C	GLY	X	78	53.910	38.761	44.724	0.00	0.00
ATOM	1201	O	GLY	X	78	52.900	38.075	44.946	0.00	0.00
ATOM	1202	N	THR	X	79	54.473	39.634	45.612	0.00	0.00
ATOM	1203	H	THR	X	79	55.365	40.047	45.379	0.00	0.00
ATOM	1204	CA	THR	X	79	53.834	40.052	46.859	0.00	0.00
ATOM	1205	HA	THR	X	79	52.857	39.579	46.956	0.00	0.00
ATOM	1206	CB	THR	X	79	54.749	39.741	48.075	0.00	0.00
ATOM	1207	HB	THR	X	79	55.759	40.040	47.794	0.00	0.00
ATOM	1208	CG2	THR	X	79	54.433	40.292	49.485	0.00	0.00
ATOM	1209	HG21	THR	X	79	55.193	39.894	50.158	0.00	0.00
ATOM	1210	HG22	THR	X	79	54.551	41.375	49.489	0.00	0.00
ATOM	1211	HG23	THR	X	79	53.419	40.024	49.780	0.00	0.00
ATOM	1212	OG1	THR	X	79	54.853	38.335	48.152	0.00	0.00
ATOM	1213	HG1	THR	X	79	53.989	38.008	48.416	0.00	0.00
ATOM	1214	C	THR	X	79	53.528	41.581	47.002	0.00	0.00
ATOM	1215	O	THR	X	79	52.555	41.938	47.697	0.00	0.00
ATOM	1216	N	GLU	X	80	54.353	42.408	46.435	0.00	0.00
ATOM	1217	H	GLU	X	80	55.110	42.001	45.904	0.00	0.00
ATOM	1218	CA	GLU	X	80	54.071	43.856	46.209	0.00	0.00
ATOM	1219	HA	GLU	X	80	53.817	44.306	47.169	0.00	0.00
ATOM	1220	CB	GLU	X	80	55.275	44.489	45.524	0.00	0.00
ATOM	1221	HB2	GLU	X	80	55.567	43.898	44.656	0.00	0.00
ATOM	1222	HB3	GLU	X	80	55.079	45.497	45.158	0.00	0.00
ATOM	1223	CG	GLU	X	80	56.509	44.507	46.417	0.00	0.00
ATOM	1224	HG2	GLU	X	80	56.645	43.531	46.883	0.00	0.00
ATOM	1225	HG3	GLU	X	80	57.310	44.664	45.695	0.00	0.00
ATOM	1226	CD	GLU	X	80	56.510	45.584	47.477	0.00	0.00
ATOM	1227	OE1	GLU	X	80	57.364	46.482	47.362	0.00	0.00
ATOM	1228	OE2	GLU	X	80	55.674	45.579	48.381	0.00	0.00
ATOM	1229	C	GLU	X	80	52.829	44.213	45.338	0.00	0.00
ATOM	1230	O	GLU	X	80	52.365	45.323	45.512	0.00	0.00
ATOM	1231	N	MET	X	81	52.314	43.252	44.631	0.00	0.00
ATOM	1232	H	MET	X	81	52.890	42.425	44.563	0.00	0.00
ATOM	1233	CA	MET	X	81	51.036	43.351	43.873	0.00	0.00
ATOM	1234	HA	MET	X	81	50.958	44.306	43.353	0.00	0.00
ATOM	1235	CB	MET	X	81	50.897	42.252	42.878	0.00	0.00
ATOM	1236	HB2	MET	X	81	49.907	42.305	42.425	0.00	0.00
ATOM	1237	HB3	MET	X	81	51.639	42.433	42.101	0.00	0.00
ATOM	1238	CG	MET	X	81	51.020	40.741	43.342	0.00	0.00
ATOM	1239	HG2	MET	X	81	51.910	40.648	43.963	0.00	0.00
ATOM	1240	HG3	MET	X	81	50.182	40.485	43.990	0.00	0.00
ATOM	1241	SD	MET	X	81	50.919	39.359	42.097	0.00	0.00
ATOM	1242	CE	MET	X	81	51.677	40.183	40.678	0.00	0.00
ATOM	1243	HE1	MET	X	81	51.140	41.094	40.412	0.00	0.00
ATOM	1244	HE2	MET	X	81	52.705	40.434	40.937	0.00	0.00
ATOM	1245	HE3	MET	X	81	51.506	39.568	39.794	0.00	0.00
ATOM	1246	C	MET	X	81	49.739	43.299	44.822	0.00	0.00
ATOM	1247	O	MET	X	81	48.632	43.660	44.456	0.00	0.00
ATOM	1248	N	TRP	X	82	50.027	42.830	46.039	0.00	0.00
ATOM	1249	H	TRP	X	82	50.991	42.636	46.270	0.00	0.00
ATOM	1250	CA	TRP	X	82	48.966	42.669	47.001	0.00	0.00
ATOM	1251	HA	TRP	X	82	47.955	42.897	46.663	0.00	0.00
ATOM	1252	CB	TRP	X	82	48.906	41.321	47.697	0.00	0.00
ATOM	1253	HB2	TRP	X	82	49.786	41.202	48.330	0.00	0.00
ATOM	1254	HB3	TRP	X	82	48.021	41.161	48.313	0.00	0.00
ATOM	1255	CG	TRP	X	82	48.992	40.136	46.740	0.00	0.00
ATOM	1256	CD1	TRP	X	82	50.070	39.238	46.682	0.00	0.00
ATOM	1257	HD1	TRP	X	82	50.888	38.995	47.344	0.00	0.00
ATOM	1258	NE1	TRP	X	82	49.821	38.427	45.603	0.00	0.00
ATOM	1259	HE1	TRP	X	82	50.559	37.814	45.287	0.00	0.00
ATOM	1260	CE2	TRP	X	82	48.721	38.721	44.894	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	48.200	38.181	43.688	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	48.652	37.310	43.238	0.00	0.00

ATOM	1263	CH2	TRP	X	82	46.999	38.737	43.168	0.00	0.00
ATOM	1264	HH2	TRP	X	82	46.540	38.319	42.284	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	46.471	39.907	43.795	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	45.586	40.369	43.383	0.00	0.00
ATOM	1267	CE3	TRP	X	82	46.974	40.420	45.003	0.00	0.00
ATOM	1268	HE3	TRP	X	82	46.412	41.193	45.506	0.00	0.00
ATOM	1269	CD2	TRP	X	82	48.182	39.876	45.564	0.00	0.00
ATOM	1270	C	TRP	X	82	49.289	43.660	48.071	0.00	0.00
ATOM	1271	O	TRP	X	82	48.332	44.177	48.742	0.00	0.00
ATOM	1272	N	ASN	X	83	50.522	43.982	48.411	0.00	0.00
ATOM	1273	H	ASN	X	83	51.265	43.503	47.922	0.00	0.00
ATOM	1274	CA	ASN	X	83	51.006	44.682	49.575	0.00	0.00
ATOM	1275	HA	ASN	X	83	50.315	44.359	50.353	0.00	0.00
ATOM	1276	CB	ASN	X	83	52.423	44.162	49.853	0.00	0.00
ATOM	1277	HB2	ASN	X	83	52.466	43.105	50.116	0.00	0.00
ATOM	1278	HB3	ASN	X	83	53.126	44.424	49.063	0.00	0.00
ATOM	1279	CG	ASN	X	83	52.946	44.811	51.099	0.00	0.00
ATOM	1280	OD1	ASN	X	83	52.954	46.077	51.161	0.00	0.00
ATOM	1281	ND2	ASN	X	83	53.400	44.130	52.092	0.00	0.00
ATOM	1282	HD21	ASN	X	83	53.761	44.757	52.797	0.00	0.00
ATOM	1283	HD22	ASN	X	83	53.428	43.120	52.085	0.00	0.00
ATOM	1284	C	ASN	X	83	50.770	46.210	49.359	0.00	0.00
ATOM	1285	O	ASN	X	83	51.281	46.853	48.423	0.00	0.00
ATOM	1286	N	PRO	X	84	50.026	46.858	50.291	0.00	0.00
ATOM	1287	CD	PRO	X	84	49.390	46.373	51.481	0.00	0.00
ATOM	1288	HD2	PRO	X	84	50.066	45.726	52.040	0.00	0.00
ATOM	1289	HD3	PRO	X	84	48.412	45.907	51.367	0.00	0.00
ATOM	1290	CG	PRO	X	84	49.086	47.614	52.272	0.00	0.00
ATOM	1291	HG2	PRO	X	84	49.932	48.116	52.741	0.00	0.00
ATOM	1292	HG3	PRO	X	84	48.221	47.468	52.920	0.00	0.00
ATOM	1293	CB	PRO	X	84	48.652	48.640	51.254	0.00	0.00
ATOM	1294	HB2	PRO	X	84	48.789	49.683	51.542	0.00	0.00
ATOM	1295	HB3	PRO	X	84	47.637	48.349	50.986	0.00	0.00
ATOM	1296	CA	PRO	X	84	49.621	48.257	50.074	0.00	0.00
ATOM	1297	HA	PRO	X	84	49.017	48.293	49.167	0.00	0.00
ATOM	1298	C	PRO	X	84	50.686	49.322	50.014	0.00	0.00
ATOM	1299	O	PRO	X	84	51.538	49.475	50.913	0.00	0.00
ATOM	1300	N	ASN	X	85	50.626	50.200	49.005	0.00	0.00
ATOM	1301	H	ASN	X	85	49.960	50.072	48.256	0.00	0.00
ATOM	1302	CA	ASN	X	85	51.619	51.279	48.957	0.00	0.00
ATOM	1303	HA	ASN	X	85	52.604	50.935	49.273	0.00	0.00
ATOM	1304	CB	ASN	X	85	51.753	51.818	47.493	0.00	0.00
ATOM	1305	HB2	ASN	X	85	52.545	52.567	47.487	0.00	0.00
ATOM	1306	HB3	ASN	X	85	52.140	50.962	46.940	0.00	0.00
ATOM	1307	CG	ASN	X	85	50.516	52.255	46.777	0.00	0.00
ATOM	1308	OD1	ASN	X	85	49.411	52.226	47.281	0.00	0.00
ATOM	1309	ND2	ASN	X	85	50.625	52.670	45.536	0.00	0.00
ATOM	1310	HD21	ASN	X	85	49.820	52.733	44.930	0.00	0.00
ATOM	1311	HD22	ASN	X	85	51.525	52.466	45.125	0.00	0.00
ATOM	1312	C	ASN	X	85	51.320	52.503	49.892	0.00	0.00
ATOM	1313	O	ASN	X	85	52.095	53.427	49.913	0.00	0.00
ATOM	1314	N	ARG	X	86	50.198	52.498	50.617	0.00	0.00
ATOM	1315	H	ARG	X	86	49.698	51.621	50.647	0.00	0.00
ATOM	1316	CA	ARG	X	86	49.707	53.575	51.527	0.00	0.00
ATOM	1317	HA	ARG	X	86	50.247	54.491	51.287	0.00	0.00
ATOM	1318	CB	ARG	X	86	48.221	53.704	51.190	0.00	0.00
ATOM	1319	HB2	ARG	X	86	47.597	52.862	51.490	0.00	0.00
ATOM	1320	HB3	ARG	X	86	47.772	54.512	51.768	0.00	0.00
ATOM	1321	CG	ARG	X	86	47.878	53.932	49.699	0.00	0.00
ATOM	1322	HG2	ARG	X	86	47.848	52.929	49.272	0.00	0.00
ATOM	1323	HG3	ARG	X	86	46.844	54.271	49.640	0.00	0.00
ATOM	1324	CD	ARG	X	86	48.691	54.960	48.984	0.00	0.00
ATOM	1325	HD2	ARG	X	86	49.739	54.727	49.172	0.00	0.00
ATOM	1326	HD3	ARG	X	86	48.329	55.084	47.964	0.00	0.00
ATOM	1327	NE	ARG	X	86	48.477	56.258	49.504	0.00	0.00
ATOM	1328	HE	ARG	X	86	47.757	56.197	50.209	0.00	0.00
ATOM	1329	CZ	ARG	X	86	49.089	57.374	49.248	0.00	0.00
ATOM	1330	NH1	ARG	X	86	50.143	57.542	48.478	0.00	0.00
ATOM	1331	HH11	ARG	X	86	50.567	56.717	48.079	0.00	0.00
ATOM	1332	HH12	ARG	X	86	50.625	58.429	48.440	0.00	0.00

ATOM	1333	NH2	ARG	X	86	48.720	58.544	49.827	0.00	0.00
ATOM	1334	HH21	ARG	X	86	47.915	58.725	50.410	0.00	0.00
ATOM	1335	HH22	ARG	X	86	49.310	59.344	49.646	0.00	0.00
ATOM	1336	C	ARG	X	86	49.906	53.208	52.981	0.00	0.00
ATOM	1337	O	ARG	X	86	49.872	51.992	53.363	0.00	0.00
ATOM	1338	N	GLU	X	87	50.025	54.209	53.855	0.00	0.00
ATOM	1339	H	GLU	X	87	50.098	55.160	53.524	0.00	0.00
ATOM	1340	CA	GLU	X	87	49.829	53.959	55.258	0.00	0.00
ATOM	1341	HA	GLU	X	87	50.554	53.199	55.551	0.00	0.00
ATOM	1342	CB	GLU	X	87	50.067	55.207	56.165	0.00	0.00
ATOM	1343	HB2	GLU	X	87	49.373	55.976	55.825	0.00	0.00
ATOM	1344	HB3	GLU	X	87	49.713	55.053	57.184	0.00	0.00
ATOM	1345	CG	GLU	X	87	51.473	55.811	56.085	0.00	0.00
ATOM	1346	HG2	GLU	X	87	52.257	55.100	56.343	0.00	0.00
ATOM	1347	HG3	GLU	X	87	51.503	56.199	55.067	0.00	0.00
ATOM	1348	CD	GLU	X	87	51.612	57.084	57.065	0.00	0.00
ATOM	1349	OE1	GLU	X	87	52.306	58.070	56.761	0.00	0.00
ATOM	1350	OE2	GLU	X	87	51.015	56.991	58.123	0.00	0.00
ATOM	1351	C	GLU	X	87	48.388	53.465	55.533	0.00	0.00
ATOM	1352	O	GLU	X	87	47.413	53.905	54.912	0.00	0.00
ATOM	1353	N	LEU	X	88	48.185	52.639	56.549	0.00	0.00
ATOM	1354	H	LEU	X	88	49.038	52.337	56.998	0.00	0.00
ATOM	1355	CA	LEU	X	88	46.924	52.065	57.003	0.00	0.00
ATOM	1356	HA	LEU	X	88	46.396	51.844	56.076	0.00	0.00
ATOM	1357	CB	LEU	X	88	47.087	50.659	57.594	0.00	0.00
ATOM	1358	HB2	LEU	X	88	47.491	50.947	58.565	0.00	0.00
ATOM	1359	HB3	LEU	X	88	46.143	50.140	57.758	0.00	0.00
ATOM	1360	CG	LEU	X	88	47.933	49.668	56.965	0.00	0.00
ATOM	1361	HG	LEU	X	88	48.945	50.070	56.919	0.00	0.00
ATOM	1362	CD1	LEU	X	88	48.048	48.340	57.843	0.00	0.00
ATOM	1363	HD11	LEU	X	88	48.827	47.667	57.484	0.00	0.00
ATOM	1364	HD12	LEU	X	88	48.237	48.755	58.832	0.00	0.00
ATOM	1365	HD13	LEU	X	88	47.118	47.774	57.887	0.00	0.00
ATOM	1366	CD2	LEU	X	88	47.454	49.385	55.521	0.00	0.00
ATOM	1367	HD21	LEU	X	88	47.511	50.332	54.985	0.00	0.00
ATOM	1368	HD22	LEU	X	88	48.137	48.649	55.098	0.00	0.00
ATOM	1369	HD23	LEU	X	88	46.422	49.043	55.446	0.00	0.00
ATOM	1370	C	LEU	X	88	45.990	52.987	57.796	0.00	0.00
ATOM	1371	O	LEU	X	88	46.380	54.087	58.078	0.00	0.00
ATOM	1372	N	SER	X	89	44.723	52.612	58.060	0.00	0.00
ATOM	1373	H	SER	X	89	44.554	51.651	57.797	0.00	0.00
ATOM	1374	CA	SER	X	89	43.695	53.409	58.700	0.00	0.00
ATOM	1375	HA	SER	X	89	43.924	53.595	59.749	0.00	0.00
ATOM	1376	CB	SER	X	89	43.399	54.691	58.017	0.00	0.00
ATOM	1377	HB2	SER	X	89	43.562	54.477	56.961	0.00	0.00
ATOM	1378	HB3	SER	X	89	42.333	54.908	58.086	0.00	0.00
ATOM	1379	OG	SER	X	89	44.213	55.638	58.528	0.00	0.00
ATOM	1380	HG	SER	X	89	45.055	55.188	58.427	0.00	0.00
ATOM	1381	C	SER	X	89	42.354	52.651	58.714	0.00	0.00
ATOM	1382	O	SER	X	89	41.977	51.888	57.788	0.00	0.00
ATOM	1383	N	GLU	X	90	41.547	52.859	59.792	0.00	0.00
ATOM	1384	H	GLU	X	90	42.012	53.349	60.543	0.00	0.00
ATOM	1385	CA	GLU	X	90	40.162	52.545	59.927	0.00	0.00
ATOM	1386	HA	GLU	X	90	40.128	51.508	59.593	0.00	0.00
ATOM	1387	CB	GLU	X	90	39.732	52.792	61.379	0.00	0.00
ATOM	1388	HB2	GLU	X	90	40.024	53.757	61.793	0.00	0.00
ATOM	1389	HB3	GLU	X	90	38.647	52.725	61.298	0.00	0.00
ATOM	1390	CG	GLU	X	90	40.097	51.613	62.385	0.00	0.00
ATOM	1391	HG2	GLU	X	90	39.980	50.678	61.838	0.00	0.00
ATOM	1392	HG3	GLU	X	90	41.138	51.526	62.698	0.00	0.00
ATOM	1393	CD	GLU	X	90	39.215	51.665	63.692	0.00	0.00
ATOM	1394	OE1	GLU	X	90	38.276	50.780	63.899	0.00	0.00
ATOM	1395	OE2	GLU	X	90	39.526	52.484	64.586	0.00	0.00
ATOM	1396	C	GLU	X	90	39.354	53.462	59.004	0.00	0.00
ATOM	1397	O	GLU	X	90	38.479	53.027	58.322	0.00	0.00
ATOM	1398	N	ASP	X	91	39.779	54.737	58.968	0.00	0.00
ATOM	1399	H	ASP	X	91	40.619	54.898	59.506	0.00	0.00
ATOM	1400	CA	ASP	X	91	39.301	55.733	58.033	0.00	0.00
ATOM	1401	HA	ASP	X	91	38.214	55.781	57.968	0.00	0.00
ATOM	1402	CB	ASP	X	91	39.729	57.085	58.677	0.00	0.00

ATOM	1403	HB2	ASP	X	91	39.325	57.206	59.682	0.00	0.00
ATOM	1404	HB3	ASP	X	91	40.818	57.049	58.682	0.00	0.00
ATOM	1405	CG	ASP	X	91	39.088	58.317	58.004	0.00	0.00
ATOM	1406	OD1	ASP	X	91	38.817	59.310	58.765	0.00	0.00
ATOM	1407	OD2	ASP	X	91	38.984	58.396	56.799	0.00	0.00
ATOM	1408	C	ASP	X	91	39.984	55.475	56.647	0.00	0.00
ATOM	1409	O	ASP	X	91	41.018	56.117	56.342	0.00	0.00
ATOM	1410	N	CYX	X	92	39.401	54.523	55.894	0.00	0.00
ATOM	1411	H	CYX	X	92	38.677	53.971	56.329	0.00	0.00
ATOM	1412	CA	CYX	X	92	39.951	54.063	54.582	0.00	0.00
ATOM	1413	HA	CYX	X	92	40.869	54.555	54.259	0.00	0.00
ATOM	1414	CB	CYX	X	92	40.481	52.589	54.741	0.00	0.00
ATOM	1415	HB2	CYX	X	92	41.001	52.314	53.823	0.00	0.00
ATOM	1416	HB3	CYX	X	92	41.125	52.577	55.621	0.00	0.00
ATOM	1417	SG	CYX	X	92	39.121	51.467	55.018	0.00	0.00
ATOM	1418	C	CYX	X	92	39.104	54.103	53.308	0.00	0.00
ATOM	1419	O	CYX	X	92	39.659	53.718	52.256	0.00	0.00
ATOM	1420	N	LEU	X	93	37.832	54.456	53.350	0.00	0.00
ATOM	1421	H	LEU	X	93	37.403	54.717	54.227	0.00	0.00
ATOM	1422	CA	LEU	X	93	36.848	54.366	52.235	0.00	0.00
ATOM	1423	HA	LEU	X	93	36.998	53.484	51.613	0.00	0.00
ATOM	1424	CB	LEU	X	93	35.490	54.121	52.839	0.00	0.00
ATOM	1425	HB2	LEU	X	93	35.192	55.036	53.351	0.00	0.00
ATOM	1426	HB3	LEU	X	93	34.808	53.973	52.001	0.00	0.00
ATOM	1427	CG	LEU	X	93	35.248	52.899	53.765	0.00	0.00
ATOM	1428	HG	LEU	X	93	35.868	52.928	54.661	0.00	0.00
ATOM	1429	CD1	LEU	X	93	33.793	52.890	54.253	0.00	0.00
ATOM	1430	HD11	LEU	X	93	33.167	52.928	53.361	0.00	0.00
ATOM	1431	HD12	LEU	X	93	33.677	51.997	54.867	0.00	0.00
ATOM	1432	HD13	LEU	X	93	33.518	53.751	54.861	0.00	0.00
ATOM	1433	CD2	LEU	X	93	35.566	51.561	53.140	0.00	0.00
ATOM	1434	HD21	LEU	X	93	35.396	50.691	53.775	0.00	0.00
ATOM	1435	HD22	LEU	X	93	34.932	51.418	52.264	0.00	0.00
ATOM	1436	HD23	LEU	X	93	36.571	51.607	52.720	0.00	0.00
ATOM	1437	C	LEU	X	93	37.016	55.623	51.435	0.00	0.00
ATOM	1438	O	LEU	X	93	36.204	56.550	51.555	0.00	0.00
ATOM	1439	N	TYR	X	94	37.851	55.519	50.416	0.00	0.00
ATOM	1440	H	TYR	X	94	38.454	54.710	50.379	0.00	0.00
ATOM	1441	CA	TYR	X	94	38.021	56.443	49.376	0.00	0.00
ATOM	1442	HA	TYR	X	94	37.172	57.127	49.370	0.00	0.00
ATOM	1443	CB	TYR	X	94	39.271	57.301	49.635	0.00	0.00
ATOM	1444	HB2	TYR	X	94	40.095	56.608	49.464	0.00	0.00
ATOM	1445	HB3	TYR	X	94	39.481	58.108	48.933	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.456	57.919	50.972	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.998	59.243	51.157	0.00	0.00
ATOM	1448	HD1	TYR	X	94	38.608	59.819	50.330	0.00	0.00
ATOM	1449	CE1	TYR	X	94	39.296	59.931	52.315	0.00	0.00
ATOM	1450	HE1	TYR	X	94	38.985	60.960	52.418	0.00	0.00
ATOM	1451	CZ	TYR	X	94	39.956	59.265	53.376	0.00	0.00
ATOM	1452	OH	TYR	X	94	40.319	60.024	54.439	0.00	0.00
ATOM	1453	HH	TYR	X	94	40.507	59.482	55.208	0.00	0.00
ATOM	1454	CE2	TYR	X	94	40.427	57.899	53.182	0.00	0.00
ATOM	1455	HE2	TYR	X	94	41.046	57.387	53.903	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.145	57.262	51.995	0.00	0.00
ATOM	1457	HD2	TYR	X	94	40.511	56.262	51.812	0.00	0.00
ATOM	1458	C	TYR	X	94	38.154	55.713	47.986	0.00	0.00
ATOM	1459	O	TYR	X	94	38.539	54.541	47.895	0.00	0.00
ATOM	1460	N	LEU	X	95	37.907	56.377	46.879	0.00	0.00
ATOM	1461	H	LEU	X	95	37.591	57.333	46.959	0.00	0.00
ATOM	1462	CA	LEU	X	95	37.885	55.826	45.575	0.00	0.00
ATOM	1463	HA	LEU	X	95	38.447	54.893	45.624	0.00	0.00
ATOM	1464	CB	LEU	X	95	36.500	55.512	45.064	0.00	0.00
ATOM	1465	HB2	LEU	X	95	36.589	54.922	44.151	0.00	0.00
ATOM	1466	HB3	LEU	X	95	36.017	54.874	45.804	0.00	0.00
ATOM	1467	CG	LEU	X	95	35.463	56.678	44.814	0.00	0.00
ATOM	1468	HG	LEU	X	95	35.466	57.274	45.727	0.00	0.00
ATOM	1469	CD1	LEU	X	95	35.581	57.474	43.498	0.00	0.00
ATOM	1470	HD11	LEU	X	95	35.399	56.810	42.653	0.00	0.00
ATOM	1471	HD12	LEU	X	95	34.946	58.358	43.433	0.00	0.00
ATOM	1472	HD13	LEU	X	95	36.597	57.868	43.462	0.00	0.00

ATOM	1473	CD2	LEU	X	95	34.110	55.845	44.759	0.00	0.00
ATOM	1474	HD21	LEU	X	95	33.257	56.489	44.544	0.00	0.00
ATOM	1475	HD22	LEU	X	95	34.230	55.044	44.031	0.00	0.00
ATOM	1476	HD23	LEU	X	95	33.952	55.314	45.698	0.00	0.00
ATOM	1477	C	LEU	X	95	38.636	56.680	44.583	0.00	0.00
ATOM	1478	O	LEU	X	95	38.971	57.804	44.811	0.00	0.00
ATOM	1479	N	ASN	X	96	38.816	56.157	43.398	0.00	0.00
ATOM	1480	H	ASN	X	96	38.471	55.226	43.209	0.00	0.00
ATOM	1481	CA	ASN	X	96	39.569	56.857	42.304	0.00	0.00
ATOM	1482	HA	ASN	X	96	39.649	57.918	42.542	0.00	0.00
ATOM	1483	CB	ASN	X	96	40.930	56.170	42.130	0.00	0.00
ATOM	1484	HB2	ASN	X	96	40.784	55.241	41.578	0.00	0.00
ATOM	1485	HB3	ASN	X	96	41.583	56.666	41.413	0.00	0.00
ATOM	1486	CG	ASN	X	96	41.648	55.890	43.435	0.00	0.00
ATOM	1487	OD1	ASN	X	96	42.068	56.716	44.228	0.00	0.00
ATOM	1488	ND2	ASN	X	96	41.925	54.610	43.631	0.00	0.00
ATOM	1489	HD21	ASN	X	96	42.399	54.283	44.462	0.00	0.00
ATOM	1490	HD22	ASN	X	96	41.513	53.931	43.008	0.00	0.00
ATOM	1491	C	ASN	X	96	38.853	56.681	40.932	0.00	0.00
ATOM	1492	O	ASN	X	96	38.197	55.679	40.675	0.00	0.00
ATOM	1493	N	VAL	X	97	39.120	57.654	40.051	0.00	0.00
ATOM	1494	H	VAL	X	97	39.540	58.522	40.355	0.00	0.00
ATOM	1495	CA	VAL	X	97	38.543	57.726	38.729	0.00	0.00
ATOM	1496	HA	VAL	X	97	38.136	56.791	38.345	0.00	0.00
ATOM	1497	CB	VAL	X	97	37.335	58.821	38.676	0.00	0.00
ATOM	1498	HB	VAL	X	97	37.700	59.830	38.865	0.00	0.00
ATOM	1499	CG1	VAL	X	97	36.604	58.772	37.295	0.00	0.00
ATOM	1500	HG11	VAL	X	97	36.817	57.837	36.778	0.00	0.00
ATOM	1501	HG12	VAL	X	97	35.524	58.757	37.444	0.00	0.00
ATOM	1502	HG13	VAL	X	97	36.871	59.587	36.622	0.00	0.00
ATOM	1503	CG2	VAL	X	97	36.427	58.638	39.810	0.00	0.00
ATOM	1504	HG21	VAL	X	97	35.665	59.417	39.851	0.00	0.00
ATOM	1505	HG22	VAL	X	97	35.834	57.726	39.756	0.00	0.00
ATOM	1506	HG23	VAL	X	97	37.000	58.578	40.736	0.00	0.00
ATOM	1507	C	VAL	X	97	39.613	58.264	37.682	0.00	0.00
ATOM	1508	O	VAL	X	97	40.257	59.228	38.007	0.00	0.00
ATOM	1509	N	TRP	X	98	39.633	57.719	36.474	0.00	0.00
ATOM	1510	H	TRP	X	98	39.102	56.870	36.343	0.00	0.00
ATOM	1511	CA	TRP	X	98	40.498	58.082	35.402	0.00	0.00
ATOM	1512	HA	TRP	X	98	41.023	58.974	35.745	0.00	0.00
ATOM	1513	CB	TRP	X	98	41.491	56.937	35.122	0.00	0.00
ATOM	1514	HB2	TRP	X	98	40.896	56.039	34.956	0.00	0.00
ATOM	1515	HB3	TRP	X	98	41.999	57.157	34.184	0.00	0.00
ATOM	1516	CG	TRP	X	98	42.591	56.701	36.151	0.00	0.00
ATOM	1517	CD1	TRP	X	98	43.878	57.090	36.052	0.00	0.00
ATOM	1518	HD1	TRP	X	98	44.266	57.736	35.278	0.00	0.00
ATOM	1519	NE1	TRP	X	98	44.644	56.479	37.061	0.00	0.00
ATOM	1520	HE1	TRP	X	98	45.653	56.434	37.049	0.00	0.00
ATOM	1521	CE2	TRP	X	98	43.818	55.779	37.965	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	44.132	55.025	39.076	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	45.154	54.857	39.382	0.00	0.00
ATOM	1524	CH2	TRP	X	98	43.045	54.386	39.667	0.00	0.00
ATOM	1525	HH2	TRP	X	98	43.179	53.740	40.522	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	41.774	54.418	39.133	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	40.993	53.844	39.609	0.00	0.00
ATOM	1528	CE3	TRP	X	98	41.491	55.165	37.957	0.00	0.00
ATOM	1529	HE3	TRP	X	98	40.483	54.998	37.607	0.00	0.00
ATOM	1530	CD2	TRP	X	98	42.511	55.900	37.364	0.00	0.00
ATOM	1531	C	TRP	X	98	39.669	58.302	34.093	0.00	0.00
ATOM	1532	O	TRP	X	98	38.795	57.518	33.751	0.00	0.00
ATOM	1533	N	THR	X	99	39.918	59.382	33.335	0.00	0.00
ATOM	1534	H	THR	X	99	40.604	60.045	33.666	0.00	0.00
ATOM	1535	CA	THR	X	99	39.016	59.808	32.227	0.00	0.00
ATOM	1536	HA	THR	X	99	38.752	58.861	31.755	0.00	0.00
ATOM	1537	CB	THR	X	99	37.734	60.428	32.810	0.00	0.00
ATOM	1538	HB	THR	X	99	37.358	59.622	33.440	0.00	0.00
ATOM	1539	CG2	THR	X	99	37.858	61.764	33.671	0.00	0.00
ATOM	1540	HG21	THR	X	99	36.892	62.085	34.059	0.00	0.00
ATOM	1541	HG22	THR	X	99	38.482	61.608	34.552	0.00	0.00
ATOM	1542	HG23	THR	X	99	38.176	62.599	33.048	0.00	0.00

ATOM	1543	OG1	THR	X	99	36.865	60.727	31.702	0.00	0.00
ATOM	1544	HG1	THR	X	99	36.125	61.190	32.103	0.00	0.00
ATOM	1545	C	THR	X	99	39.792	60.780	31.259	0.00	0.00
ATOM	1546	O	THR	X	99	40.590	61.519	31.728	0.00	0.00
ATOM	1547	N	PRO	X	100	39.478	60.787	29.912	0.00	0.00
ATOM	1548	CD	PRO	X	100	38.452	59.996	29.188	0.00	0.00
ATOM	1549	HD2	PRO	X	100	37.550	60.603	29.273	0.00	0.00
ATOM	1550	HD3	PRO	X	100	38.212	59.014	29.597	0.00	0.00
ATOM	1551	CG	PRO	X	100	39.003	59.836	27.705	0.00	0.00
ATOM	1552	HG2	PRO	X	100	38.120	59.852	27.066	0.00	0.00
ATOM	1553	HG3	PRO	X	100	39.542	58.893	27.603	0.00	0.00
ATOM	1554	CB	PRO	X	100	39.943	61.043	27.531	0.00	0.00
ATOM	1555	HB2	PRO	X	100	39.356	61.878	27.149	0.00	0.00
ATOM	1556	HB3	PRO	X	100	40.765	60.789	26.862	0.00	0.00
ATOM	1557	CA	PRO	X	100	40.431	61.402	28.974	0.00	0.00
ATOM	1558	HA	PRO	X	100	41.394	60.922	29.150	0.00	0.00
ATOM	1559	C	PRO	X	100	40.546	62.931	29.181	0.00	0.00
ATOM	1560	O	PRO	X	100	39.582	63.616	29.553	0.00	0.00
ATOM	1561	N	TYR	X	101	41.678	63.547	28.773	0.00	0.00
ATOM	1562	H	TYR	X	101	42.426	62.967	28.422	0.00	0.00
ATOM	1563	CA	TYR	X	101	41.761	64.999	28.753	0.00	0.00
ATOM	1564	HA	TYR	X	101	41.075	65.375	29.512	0.00	0.00
ATOM	1565	CB	TYR	X	101	43.131	65.362	29.306	0.00	0.00
ATOM	1566	HB2	TYR	X	101	43.111	64.979	30.327	0.00	0.00
ATOM	1567	HB3	TYR	X	101	43.861	64.794	28.730	0.00	0.00
ATOM	1568	CG	TYR	X	101	43.345	66.871	29.340	0.00	0.00
ATOM	1569	CD1	TYR	X	101	43.822	67.517	28.177	0.00	0.00
ATOM	1570	HD1	TYR	X	101	44.276	66.912	27.406	0.00	0.00
ATOM	1571	CE1	TYR	X	101	43.716	68.921	28.025	0.00	0.00
ATOM	1572	HE1	TYR	X	101	44.159	69.329	27.128	0.00	0.00
ATOM	1573	CZ	TYR	X	101	43.357	69.738	29.143	0.00	0.00
ATOM	1574	OH	TYR	X	101	43.441	71.093	29.155	0.00	0.00
ATOM	1575	HH	TYR	X	101	43.562	71.367	28.243	0.00	0.00
ATOM	1576	CE2	TYR	X	101	42.871	69.083	30.277	0.00	0.00
ATOM	1577	HE2	TYR	X	101	42.620	69.670	31.148	0.00	0.00
ATOM	1578	CD2	TYR	X	101	42.852	67.680	30.391	0.00	0.00
ATOM	1579	HD2	TYR	X	101	42.544	67.302	31.355	0.00	0.00
ATOM	1580	C	TYR	X	101	41.451	65.660	27.362	0.00	0.00
ATOM	1581	O	TYR	X	101	42.019	65.226	26.345	0.00	0.00
ATOM	1582	N	PRO	X	102	40.787	66.822	27.220	0.00	0.00
ATOM	1583	CD	PRO	X	102	40.486	67.344	25.858	0.00	0.00
ATOM	1584	HD2	PRO	X	102	39.916	66.624	25.271	0.00	0.00
ATOM	1585	HD3	PRO	X	102	41.424	67.571	25.352	0.00	0.00
ATOM	1586	CG	PRO	X	102	39.710	68.632	26.098	0.00	0.00
ATOM	1587	HG2	PRO	X	102	38.820	68.631	25.469	0.00	0.00
ATOM	1588	HG3	PRO	X	102	40.349	69.477	25.841	0.00	0.00
ATOM	1589	CB	PRO	X	102	39.183	68.655	27.535	0.00	0.00
ATOM	1590	HB2	PRO	X	102	38.114	68.477	27.656	0.00	0.00
ATOM	1591	HB3	PRO	X	102	39.378	69.675	27.867	0.00	0.00
ATOM	1592	CA	PRO	X	102	39.926	67.516	28.228	0.00	0.00
ATOM	1593	HA	PRO	X	102	40.494	67.903	29.074	0.00	0.00
ATOM	1594	C	PRO	X	102	38.934	66.454	28.731	0.00	0.00
ATOM	1595	O	PRO	X	102	38.240	65.817	27.985	0.00	0.00
ATOM	1596	N	ARG	X	103	38.836	66.391	30.084	0.00	0.00
ATOM	1597	H	ARG	X	103	39.516	66.893	30.637	0.00	0.00
ATOM	1598	CA	ARG	X	103	37.731	65.735	30.840	0.00	0.00
ATOM	1599	HA	ARG	X	103	37.961	64.671	30.895	0.00	0.00
ATOM	1600	CB	ARG	X	103	37.651	66.326	32.264	0.00	0.00
ATOM	1601	HB2	ARG	X	103	38.570	66.228	32.841	0.00	0.00
ATOM	1602	HB3	ARG	X	103	37.368	67.376	32.182	0.00	0.00
ATOM	1603	CG	ARG	X	103	36.638	65.517	33.070	0.00	0.00
ATOM	1604	HG2	ARG	X	103	35.789	65.147	32.494	0.00	0.00
ATOM	1605	HG3	ARG	X	103	37.202	64.715	33.547	0.00	0.00
ATOM	1606	CD	ARG	X	103	36.165	66.187	34.382	0.00	0.00
ATOM	1607	HD2	ARG	X	103	35.778	65.459	35.094	0.00	0.00
ATOM	1608	HD3	ARG	X	103	36.978	66.697	34.898	0.00	0.00
ATOM	1609	NE	ARG	X	103	34.995	67.027	34.109	0.00	0.00
ATOM	1610	HE	ARG	X	103	34.100	66.600	33.918	0.00	0.00
ATOM	1611	CZ	ARG	X	103	34.935	68.344	34.373	0.00	0.00
ATOM	1612	NH1	ARG	X	103	35.931	69.112	34.688	0.00	0.00

ATOM	1613	HH11	ARG	X	103	36.835	68.669	34.613	0.00	0.00
ATOM	1614	HH12	ARG	X	103	35.851	70.061	35.026	0.00	0.00
ATOM	1615	NH2	ARG	X	103	33.798	68.918	34.200	0.00	0.00
ATOM	1616	HH21	ARG	X	103	32.987	68.323	34.105	0.00	0.00
ATOM	1617	HH22	ARG	X	103	33.622	69.827	34.604	0.00	0.00
ATOM	1618	C	ARG	X	103	36.360	65.816	30.073	0.00	0.00
ATOM	1619	O	ARG	X	103	35.736	66.895	30.084	0.00	0.00
ATOM	1620	N	PRO	X	104	35.824	64.787	29.402	0.00	0.00
ATOM	1621	CD	PRO	X	104	36.405	63.458	29.174	0.00	0.00
ATOM	1622	HD2	PRO	X	104	36.448	62.870	30.092	0.00	0.00
ATOM	1623	HD3	PRO	X	104	37.337	63.680	28.654	0.00	0.00
ATOM	1624	CG	PRO	X	104	35.480	62.688	28.293	0.00	0.00
ATOM	1625	HG2	PRO	X	104	34.685	62.332	28.949	0.00	0.00
ATOM	1626	HG3	PRO	X	104	35.971	61.970	27.637	0.00	0.00
ATOM	1627	CB	PRO	X	104	34.927	63.759	27.462	0.00	0.00
ATOM	1628	HB2	PRO	X	104	34.000	63.468	26.969	0.00	0.00
ATOM	1629	HB3	PRO	X	104	35.675	64.049	26.723	0.00	0.00
ATOM	1630	CA	PRO	X	104	34.698	64.943	28.454	0.00	0.00
ATOM	1631	HA	PRO	X	104	34.816	65.934	28.015	0.00	0.00
ATOM	1632	C	PRO	X	104	33.260	64.870	29.144	0.00	0.00
ATOM	1633	O	PRO	X	104	32.925	63.996	29.996	0.00	0.00
ATOM	1634	N	THR	X	105	32.371	65.662	28.576	0.00	0.00
ATOM	1635	H	THR	X	105	32.674	66.223	27.793	0.00	0.00
ATOM	1636	CA	THR	X	105	30.891	65.589	28.962	0.00	0.00
ATOM	1637	HA	THR	X	105	30.742	65.539	30.040	0.00	0.00
ATOM	1638	CB	THR	X	105	30.240	66.863	28.483	0.00	0.00
ATOM	1639	HB	THR	X	105	29.164	66.764	28.628	0.00	0.00
ATOM	1640	CG2	THR	X	105	30.800	68.156	29.091	0.00	0.00
ATOM	1641	HG21	THR	X	105	31.692	68.563	28.616	0.00	0.00
ATOM	1642	HG22	THR	X	105	29.986	68.877	29.016	0.00	0.00
ATOM	1643	HG23	THR	X	105	31.037	68.055	30.150	0.00	0.00
ATOM	1644	OG1	THR	X	105	30.564	66.937	27.083	0.00	0.00
ATOM	1645	HG1	THR	X	105	31.492	67.145	26.953	0.00	0.00
ATOM	1646	C	THR	X	105	30.123	64.424	28.314	0.00	0.00
ATOM	1647	O	THR	X	105	29.112	63.944	28.824	0.00	0.00
ATOM	1648	N	SER	X	106	30.649	63.882	27.225	0.00	0.00
ATOM	1649	H	SER	X	106	31.443	64.235	26.711	0.00	0.00
ATOM	1650	CA	SER	X	106	30.109	62.676	26.555	0.00	0.00
ATOM	1651	HA	SER	X	106	29.051	62.733	26.299	0.00	0.00
ATOM	1652	CB	SER	X	106	30.862	62.379	25.245	0.00	0.00
ATOM	1653	HB2	SER	X	106	31.703	61.704	25.404	0.00	0.00
ATOM	1654	HB3	SER	X	106	30.156	61.906	24.562	0.00	0.00
ATOM	1655	OG	SER	X	106	31.431	63.561	24.760	0.00	0.00
ATOM	1656	HG	SER	X	106	32.317	63.296	24.505	0.00	0.00
ATOM	1657	C	SER	X	106	30.292	61.480	27.515	0.00	0.00
ATOM	1658	O	SER	X	106	31.474	61.261	27.860	0.00	0.00
ATOM	1659	N	PRO	X	107	29.242	60.735	27.923	0.00	0.00
ATOM	1660	CD	PRO	X	107	27.856	60.979	27.502	0.00	0.00
ATOM	1661	HD2	PRO	X	107	27.805	60.714	26.446	0.00	0.00
ATOM	1662	HD3	PRO	X	107	27.508	62.000	27.662	0.00	0.00
ATOM	1663	CG	PRO	X	107	26.965	60.058	28.342	0.00	0.00
ATOM	1664	HG2	PRO	X	107	26.407	59.437	27.641	0.00	0.00
ATOM	1665	HG3	PRO	X	107	26.181	60.518	28.944	0.00	0.00
ATOM	1666	CB	PRO	X	107	27.993	59.234	29.135	0.00	0.00
ATOM	1667	HB2	PRO	X	107	27.885	58.149	29.137	0.00	0.00
ATOM	1668	HB3	PRO	X	107	28.016	59.640	30.147	0.00	0.00
ATOM	1669	CA	PRO	X	107	29.376	59.448	28.554	0.00	0.00
ATOM	1670	HA	PRO	X	107	30.112	59.566	29.349	0.00	0.00
ATOM	1671	C	PRO	X	107	29.901	58.392	27.588	0.00	0.00
ATOM	1672	O	PRO	X	107	29.719	58.437	26.347	0.00	0.00
ATOM	1673	N	THR	X	108	30.493	57.336	28.092	0.00	0.00
ATOM	1674	H	THR	X	108	30.546	57.416	29.097	0.00	0.00
ATOM	1675	CA	THR	X	108	31.163	56.088	27.499	0.00	0.00
ATOM	1676	HA	THR	X	108	30.635	55.695	26.630	0.00	0.00
ATOM	1677	CB	THR	X	108	32.587	56.367	27.004	0.00	0.00
ATOM	1678	HB	THR	X	108	33.158	56.763	27.843	0.00	0.00
ATOM	1679	CG2	THR	X	108	33.222	55.153	26.326	0.00	0.00
ATOM	1680	HG21	THR	X	108	33.303	54.332	27.038	0.00	0.00
ATOM	1681	HG22	THR	X	108	32.653	54.830	25.454	0.00	0.00
ATOM	1682	HG23	THR	X	108	34.262	55.280	26.027	0.00	0.00

ATOM	1683	OG1	THR	X	108	32.392	57.294	26.045	0.00	0.00
ATOM	1684	HG1	THR	X	108	31.885	57.998	26.456	0.00	0.00
ATOM	1685	C	THR	X	108	31.182	55.028	28.642	0.00	0.00
ATOM	1686	O	THR	X	108	31.426	55.458	29.721	0.00	0.00
ATOM	1687	N	PRO	X	109	30.931	53.705	28.270	0.00	0.00
ATOM	1688	CD	PRO	X	109	30.824	53.176	26.928	0.00	0.00
ATOM	1689	HD2	PRO	X	109	31.802	52.997	26.481	0.00	0.00
ATOM	1690	HD3	PRO	X	109	30.228	53.643	26.145	0.00	0.00
ATOM	1691	CG	PRO	X	109	30.212	51.839	27.206	0.00	0.00
ATOM	1692	HG2	PRO	X	109	30.431	51.177	26.368	0.00	0.00
ATOM	1693	HG3	PRO	X	109	29.143	51.941	27.397	0.00	0.00
ATOM	1694	CB	PRO	X	109	30.875	51.316	28.533	0.00	0.00
ATOM	1695	HB2	PRO	X	109	31.901	51.069	28.263	0.00	0.00
ATOM	1696	HB3	PRO	X	109	30.320	50.484	28.968	0.00	0.00
ATOM	1697	CA	PRO	X	109	30.857	52.635	29.337	0.00	0.00
ATOM	1698	HA	PRO	X	109	29.945	52.730	29.926	0.00	0.00
ATOM	1699	C	PRO	X	109	31.995	52.654	30.330	0.00	0.00
ATOM	1700	O	PRO	X	109	33.162	52.912	30.016	0.00	0.00
ATOM	1701	N	VAL	X	110	31.645	52.281	31.577	0.00	0.00
ATOM	1702	H	VAL	X	110	30.701	51.936	31.680	0.00	0.00
ATOM	1703	CA	VAL	X	110	32.473	52.256	32.723	0.00	0.00
ATOM	1704	HA	VAL	X	110	33.312	52.900	32.458	0.00	0.00
ATOM	1705	CB	VAL	X	110	31.805	52.921	33.913	0.00	0.00
ATOM	1706	HB	VAL	X	110	31.163	52.165	34.365	0.00	0.00
ATOM	1707	CG1	VAL	X	110	32.714	53.484	35.038	0.00	0.00
ATOM	1708	HG11	VAL	X	110	33.361	52.713	35.457	0.00	0.00
ATOM	1709	HG12	VAL	X	110	33.237	54.341	34.614	0.00	0.00
ATOM	1710	HG13	VAL	X	110	32.098	53.900	35.835	0.00	0.00
ATOM	1711	CG2	VAL	X	110	30.682	53.981	33.611	0.00	0.00
ATOM	1712	HG21	VAL	X	110	29.806	53.586	33.097	0.00	0.00
ATOM	1713	HG22	VAL	X	110	30.208	54.392	34.502	0.00	0.00
ATOM	1714	HG23	VAL	X	110	31.232	54.787	33.126	0.00	0.00
ATOM	1715	C	VAL	X	110	32.943	50.850	33.107	0.00	0.00
ATOM	1716	O	VAL	X	110	32.121	49.929	33.006	0.00	0.00
ATOM	1717	N	LEU	X	111	34.268	50.722	33.434	0.00	0.00
ATOM	1718	H	LEU	X	111	34.841	51.536	33.267	0.00	0.00
ATOM	1719	CA	LEU	X	111	34.924	49.472	33.969	0.00	0.00
ATOM	1720	HA	LEU	X	111	34.219	48.643	34.022	0.00	0.00
ATOM	1721	CB	LEU	X	111	36.118	48.916	33.146	0.00	0.00
ATOM	1722	HB2	LEU	X	111	36.968	49.595	33.070	0.00	0.00
ATOM	1723	HB3	LEU	X	111	36.632	48.084	33.628	0.00	0.00
ATOM	1724	CG	LEU	X	111	35.840	48.393	31.696	0.00	0.00
ATOM	1725	HG	LEU	X	111	35.450	49.211	31.090	0.00	0.00
ATOM	1726	CD1	LEU	X	111	37.181	47.999	31.024	0.00	0.00
ATOM	1727	HD11	LEU	X	111	36.993	47.785	29.972	0.00	0.00
ATOM	1728	HD12	LEU	X	111	38.007	48.684	31.213	0.00	0.00
ATOM	1729	HD13	LEU	X	111	37.557	47.160	31.609	0.00	0.00
ATOM	1730	CD2	LEU	X	111	34.877	47.182	31.689	0.00	0.00
ATOM	1731	HD21	LEU	X	111	35.266	46.369	32.304	0.00	0.00
ATOM	1732	HD22	LEU	X	111	33.950	47.334	32.241	0.00	0.00
ATOM	1733	HD23	LEU	X	111	34.676	46.684	30.741	0.00	0.00
ATOM	1734	C	LEU	X	111	35.224	49.702	35.468	0.00	0.00
ATOM	1735	O	LEU	X	111	36.113	50.459	35.752	0.00	0.00
ATOM	1736	N	VAL	X	112	34.539	49.021	36.362	0.00	0.00
ATOM	1737	H	VAL	X	112	33.775	48.519	35.932	0.00	0.00
ATOM	1738	CA	VAL	X	112	34.852	49.067	37.774	0.00	0.00
ATOM	1739	HA	VAL	X	112	35.395	49.952	38.104	0.00	0.00
ATOM	1740	CB	VAL	X	112	33.577	48.902	38.686	0.00	0.00
ATOM	1741	HB	VAL	X	112	33.028	48.018	38.359	0.00	0.00
ATOM	1742	CG1	VAL	X	112	33.962	48.847	40.163	0.00	0.00
ATOM	1743	HG11	VAL	X	112	34.631	49.681	40.377	0.00	0.00
ATOM	1744	HG12	VAL	X	112	33.106	48.875	40.837	0.00	0.00
ATOM	1745	HG13	VAL	X	112	34.301	47.831	40.365	0.00	0.00
ATOM	1746	CG2	VAL	X	112	32.765	50.168	38.442	0.00	0.00
ATOM	1747	HG21	VAL	X	112	32.371	50.152	37.425	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.909	50.231	39.114	0.00	0.00
ATOM	1749	HG23	VAL	X	112	33.293	51.108	38.596	0.00	0.00
ATOM	1750	C	VAL	X	112	35.816	47.895	38.002	0.00	0.00
ATOM	1751	O	VAL	X	112	35.547	46.803	37.517	0.00	0.00
ATOM	1752	N	TRP	X	113	36.949	48.167	38.734	0.00	0.00

ATOM	1753	H	TRP	X	113	36.916	48.990	39.319	0.00	0.00
ATOM	1754	CA	TRP	X	113	38.010	47.195	39.044	0.00	0.00
ATOM	1755	HA	TRP	X	113	37.944	46.325	38.392	0.00	0.00
ATOM	1756	CB	TRP	X	113	39.343	47.873	38.918	0.00	0.00
ATOM	1757	HB2	TRP	X	113	39.496	48.357	37.954	0.00	0.00
ATOM	1758	HB3	TRP	X	113	39.460	48.748	39.558	0.00	0.00
ATOM	1759	CG	TRP	X	113	40.486	46.987	39.270	0.00	0.00
ATOM	1760	CD1	TRP	X	113	41.424	47.290	40.232	0.00	0.00
ATOM	1761	HD1	TRP	X	113	41.396	48.184	40.838	0.00	0.00
ATOM	1762	NE1	TRP	X	113	42.426	46.314	40.303	0.00	0.00
ATOM	1763	HE1	TRP	X	113	43.207	46.277	40.943	0.00	0.00
ATOM	1764	CE2	TRP	X	113	42.094	45.236	39.482	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	42.775	44.041	39.204	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	43.704	43.822	39.711	0.00	0.00
ATOM	1767	CH2	TRP	X	113	42.251	43.111	38.264	0.00	0.00
ATOM	1768	HH2	TRP	X	113	42.821	42.212	38.078	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	40.966	43.416	37.705	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	40.493	42.678	37.075	0.00	0.00
ATOM	1771	CE3	TRP	X	113	40.330	44.668	37.914	0.00	0.00
ATOM	1772	HE3	TRP	X	113	39.425	44.919	37.382	0.00	0.00
ATOM	1773	CD2	TRP	X	113	40.891	45.613	38.827	0.00	0.00
ATOM	1774	C	TRP	X	113	37.757	46.850	40.462	0.00	0.00
ATOM	1775	O	TRP	X	113	37.653	47.616	41.441	0.00	0.00
ATOM	1776	N	ILE	X	114	37.704	45.545	40.698	0.00	0.00
ATOM	1777	H	ILE	X	114	37.677	44.896	39.925	0.00	0.00
ATOM	1778	CA	ILE	X	114	37.651	44.990	42.050	0.00	0.00
ATOM	1779	HA	ILE	X	114	37.918	45.730	42.805	0.00	0.00
ATOM	1780	CB	ILE	X	114	36.258	44.477	42.363	0.00	0.00
ATOM	1781	HB	ILE	X	114	36.039	43.707	41.622	0.00	0.00
ATOM	1782	CG2	ILE	X	114	36.307	43.882	43.827	0.00	0.00
ATOM	1783	HG21	ILE	X	114	35.306	43.559	44.116	0.00	0.00
ATOM	1784	HG22	ILE	X	114	36.935	42.993	43.758	0.00	0.00
ATOM	1785	HG23	ILE	X	114	36.774	44.529	44.570	0.00	0.00
ATOM	1786	CG1	ILE	X	114	35.167	45.648	42.465	0.00	0.00
ATOM	1787	HG12	ILE	X	114	35.442	46.352	43.250	0.00	0.00
ATOM	1788	HG13	ILE	X	114	35.110	46.172	41.510	0.00	0.00
ATOM	1789	CD1	ILE	X	114	33.609	45.339	42.738	0.00	0.00
ATOM	1790	HD11	ILE	X	114	33.126	44.573	42.131	0.00	0.00
ATOM	1791	HD12	ILE	X	114	33.465	44.956	43.748	0.00	0.00
ATOM	1792	HD13	ILE	X	114	33.074	46.280	42.612	0.00	0.00
ATOM	1793	C	ILE	X	114	38.716	43.884	42.224	0.00	0.00
ATOM	1794	O	ILE	X	114	38.584	42.871	41.541	0.00	0.00
ATOM	1795	N	TYR	X	115	39.762	44.215	42.867	0.00	0.00
ATOM	1796	H	TYR	X	115	39.654	45.084	43.370	0.00	0.00
ATOM	1797	CA	TYR	X	115	41.112	43.506	42.917	0.00	0.00
ATOM	1798	HA	TYR	X	115	41.248	43.306	41.854	0.00	0.00
ATOM	1799	CB	TYR	X	115	42.161	44.516	43.296	0.00	0.00
ATOM	1800	HB2	TYR	X	115	43.125	44.067	43.536	0.00	0.00
ATOM	1801	HB3	TYR	X	115	42.302	45.055	42.360	0.00	0.00
ATOM	1802	CG	TYR	X	115	41.731	45.503	44.327	0.00	0.00
ATOM	1803	CD1	TYR	X	115	42.123	45.176	45.663	0.00	0.00
ATOM	1804	HD1	TYR	X	115	42.509	44.199	45.911	0.00	0.00
ATOM	1805	CE1	TYR	X	115	41.857	46.131	46.712	0.00	0.00
ATOM	1806	HE1	TYR	X	115	42.116	45.922	47.740	0.00	0.00
ATOM	1807	CZ	TYR	X	115	41.098	47.317	46.398	0.00	0.00
ATOM	1808	OH	TYR	X	115	40.639	48.238	47.367	0.00	0.00
ATOM	1809	HH	TYR	X	115	39.997	48.885	47.066	0.00	0.00
ATOM	1810	CE2	TYR	X	115	40.810	47.653	45.045	0.00	0.00
ATOM	1811	HE2	TYR	X	115	40.227	48.519	44.767	0.00	0.00
ATOM	1812	CD2	TYR	X	115	41.143	46.744	44.035	0.00	0.00
ATOM	1813	HD2	TYR	X	115	40.894	46.908	42.998	0.00	0.00
ATOM	1814	C	TYR	X	115	41.390	42.247	43.814	0.00	0.00
ATOM	1815	O	TYR	X	115	40.733	42.093	44.818	0.00	0.00
ATOM	1816	N	GLY	X	116	42.311	41.410	43.495	0.00	0.00
ATOM	1817	H	GLY	X	116	42.908	41.664	42.721	0.00	0.00
ATOM	1818	CA	GLY	X	116	42.810	40.329	44.368	0.00	0.00
ATOM	1819	HA2	GLY	X	116	41.890	39.759	44.685	0.00	0.00
ATOM	1820	HA3	GLY	X	116	43.420	39.631	43.848	0.00	0.00
ATOM	1821	C	GLY	X	116	43.524	40.822	45.613	0.00	0.00
ATOM	1822	O	GLY	X	116	43.583	42.018	45.872	0.00	0.00

ATOM	1823	N	GLY	X	117	43.871	39.795	46.470	0.00	0.00
ATOM	1824	H	GLY	X	117	43.847	38.828	46.179	0.00	0.00
ATOM	1825	CA	GLY	X	117	44.310	40.065	47.855	0.00	0.00
ATOM	1826	HA2	GLY	X	117	45.392	40.253	47.922	0.00	0.00
ATOM	1827	HA3	GLY	X	117	43.801	40.976	48.194	0.00	0.00
ATOM	1828	C	GLY	X	117	43.957	38.947	48.846	0.00	0.00
ATOM	1829	O	GLY	X	117	44.187	39.028	50.053	0.00	0.00
ATOM	1830	N	GLY	X	118	43.455	37.803	48.316	0.00	0.00
ATOM	1831	H	GLY	X	118	43.375	37.725	47.312	0.00	0.00
ATOM	1832	CA	GLY	X	118	42.819	36.654	49.032	0.00	0.00
ATOM	1833	HA2	GLY	X	118	42.421	35.972	48.420	0.00	0.00
ATOM	1834	HA3	GLY	X	118	43.572	36.145	49.667	0.00	0.00
ATOM	1835	C	GLY	X	118	41.757	37.051	50.088	0.00	0.00
ATOM	1836	O	GLY	X	118	41.444	36.258	50.950	0.00	0.00
ATOM	1837	N	PHE	X	119	41.347	38.314	50.110	0.00	0.00
ATOM	1838	H	PHE	X	119	41.632	38.827	49.288	0.00	0.00
ATOM	1839	CA	PHE	X	119	40.398	38.973	50.940	0.00	0.00
ATOM	1840	HA	PHE	X	119	39.945	39.763	50.341	0.00	0.00
ATOM	1841	CB	PHE	X	119	39.187	38.055	51.339	0.00	0.00
ATOM	1842	HB2	PHE	X	119	39.493	37.174	51.903	0.00	0.00
ATOM	1843	HB3	PHE	X	119	38.689	38.665	52.093	0.00	0.00
ATOM	1844	CG	PHE	X	119	38.126	37.686	50.414	0.00	0.00
ATOM	1845	CD1	PHE	X	119	37.064	38.617	50.103	0.00	0.00
ATOM	1846	HD1	PHE	X	119	37.080	39.609	50.530	0.00	0.00
ATOM	1847	CE1	PHE	X	119	36.085	38.274	49.103	0.00	0.00
ATOM	1848	HE1	PHE	X	119	35.247	38.897	48.828	0.00	0.00
ATOM	1849	CZ	PHE	X	119	36.116	37.012	48.512	0.00	0.00
ATOM	1850	HZ	PHE	X	119	35.383	36.663	47.799	0.00	0.00
ATOM	1851	CE2	PHE	X	119	37.140	36.120	48.812	0.00	0.00
ATOM	1852	HE2	PHE	X	119	37.230	35.154	48.338	0.00	0.00
ATOM	1853	CD2	PHE	X	119	38.186	36.492	49.693	0.00	0.00
ATOM	1854	HD2	PHE	X	119	39.081	35.888	49.691	0.00	0.00
ATOM	1855	C	PHE	X	119	41.172	39.569	52.194	0.00	0.00
ATOM	1856	O	PHE	X	119	40.663	40.388	52.932	0.00	0.00
ATOM	1857	N	TYR	X	120	42.310	38.975	52.615	0.00	0.00
ATOM	1858	H	TYR	X	120	42.655	38.284	51.964	0.00	0.00
ATOM	1859	CA	TYR	X	120	43.146	39.403	53.867	0.00	0.00
ATOM	1860	HA	TYR	X	120	42.383	39.690	54.590	0.00	0.00
ATOM	1861	CB	TYR	X	120	43.997	38.232	54.440	0.00	0.00
ATOM	1862	HB2	TYR	X	120	44.349	38.616	55.397	0.00	0.00
ATOM	1863	HB3	TYR	X	120	43.340	37.401	54.697	0.00	0.00
ATOM	1864	CG	TYR	X	120	45.074	37.822	53.480	0.00	0.00
ATOM	1865	CD1	TYR	X	120	46.345	38.349	53.591	0.00	0.00
ATOM	1866	HD1	TYR	X	120	46.530	38.999	54.434	0.00	0.00
ATOM	1867	CE1	TYR	X	120	47.309	38.055	52.604	0.00	0.00
ATOM	1868	HE1	TYR	X	120	48.273	38.529	52.719	0.00	0.00
ATOM	1869	CZ	TYR	X	120	47.035	37.120	51.562	0.00	0.00
ATOM	1870	OH	TYR	X	120	47.968	36.798	50.569	0.00	0.00
ATOM	1871	HH	TYR	X	120	48.812	37.244	50.671	0.00	0.00
ATOM	1872	CE2	TYR	X	120	45.740	36.551	51.529	0.00	0.00
ATOM	1873	HE2	TYR	X	120	45.522	35.838	50.747	0.00	0.00
ATOM	1874	CD2	TYR	X	120	44.824	36.879	52.497	0.00	0.00
ATOM	1875	HD2	TYR	X	120	43.877	36.376	52.369	0.00	0.00
ATOM	1876	C	TYR	X	120	44.016	40.665	53.700	0.00	0.00
ATOM	1877	O	TYR	X	120	44.497	41.319	54.657	0.00	0.00
ATOM	1878	N	SER	X	121	44.388	40.929	52.399	0.00	0.00
ATOM	1879	H	SER	X	121	43.869	40.416	51.700	0.00	0.00
ATOM	1880	CA	SER	X	121	45.144	42.103	51.827	0.00	0.00
ATOM	1881	HA	SER	X	121	45.152	42.898	52.573	0.00	0.00
ATOM	1882	CB	SER	X	121	46.618	41.718	51.520	0.00	0.00
ATOM	1883	HB2	SER	X	121	47.160	42.523	51.024	0.00	0.00
ATOM	1884	HB3	SER	X	121	47.155	41.633	52.465	0.00	0.00
ATOM	1885	OG	SER	X	121	46.736	40.523	50.724	0.00	0.00
ATOM	1886	HG	SER	X	121	46.550	39.822	51.353	0.00	0.00
ATOM	1887	C	SER	X	121	44.540	42.767	50.482	0.00	0.00
ATOM	1888	O	SER	X	121	43.519	42.363	50.024	0.00	0.00
ATOM	1889	N	GLY	X	122	45.115	43.914	50.059	0.00	0.00
ATOM	1890	H	GLY	X	122	45.930	44.232	50.564	0.00	0.00
ATOM	1891	CA	GLY	X	122	44.597	44.730	48.980	0.00	0.00
ATOM	1892	HA2	GLY	X	122	45.106	44.360	48.104	0.00	0.00

ATOM	1893	HA3	GLY	X	122	43.567	44.431	48.830	0.00	0.00
ATOM	1894	C	GLY	X	122	44.823	46.224	49.034	0.00	0.00
ATOM	1895	O	GLY	X	122	45.147	46.705	50.083	0.00	0.00
ATOM	1896	N	ALA	X	123	44.702	46.988	47.919	0.00	0.00
ATOM	1897	H	ALA	X	123	44.378	46.529	47.080	0.00	0.00
ATOM	1898	CA	ALA	X	123	44.567	48.479	47.888	0.00	0.00
ATOM	1899	HA	ALA	X	123	43.669	48.711	48.460	0.00	0.00
ATOM	1900	CB	ALA	X	123	45.720	49.338	48.390	0.00	0.00
ATOM	1901	HB1	ALA	X	123	46.001	48.980	49.380	0.00	0.00
ATOM	1902	HB2	ALA	X	123	46.605	49.214	47.765	0.00	0.00
ATOM	1903	HB3	ALA	X	123	45.431	50.385	48.484	0.00	0.00
ATOM	1904	C	ALA	X	123	44.359	48.932	46.489	0.00	0.00
ATOM	1905	O	ALA	X	123	45.003	48.396	45.547	0.00	0.00
ATOM	1906	N	SER	X	124	43.404	49.811	46.201	0.00	0.00
ATOM	1907	H	SER	X	124	42.985	50.148	47.056	0.00	0.00
ATOM	1908	CA	SER	X	124	43.127	50.377	44.921	0.00	0.00
ATOM	1909	HA	SER	X	124	42.913	49.633	44.153	0.00	0.00
ATOM	1910	CB	SER	X	124	41.897	51.362	44.959	0.00	0.00
ATOM	1911	HB2	SER	X	124	41.736	51.855	44.000	0.00	0.00
ATOM	1912	HB3	SER	X	124	41.020	50.764	45.205	0.00	0.00
ATOM	1913	OG	SER	X	124	42.117	52.405	45.856	0.00	0.00
ATOM	1914	HG	SER	X	124	42.069	52.154	46.781	0.00	0.00
ATOM	1915	C	SER	X	124	44.219	51.151	44.229	0.00	0.00
ATOM	1916	O	SER	X	124	44.297	51.145	42.991	0.00	0.00
ATOM	1917	N	SER	X	125	45.051	51.703	45.064	0.00	0.00
ATOM	1918	H	SER	X	125	44.899	51.695	46.063	0.00	0.00
ATOM	1919	CA	SER	X	125	46.097	52.631	44.625	0.00	0.00
ATOM	1920	HA	SER	X	125	45.726	53.123	43.726	0.00	0.00
ATOM	1921	CB	SER	X	125	46.338	53.680	45.726	0.00	0.00
ATOM	1922	HB2	SER	X	125	47.184	54.333	45.514	0.00	0.00
ATOM	1923	HB3	SER	X	125	45.367	54.135	45.922	0.00	0.00
ATOM	1924	OG	SER	X	125	46.783	52.976	46.840	0.00	0.00
ATOM	1925	HG	SER	X	125	47.718	52.814	46.694	0.00	0.00
ATOM	1926	C	SER	X	125	47.386	52.056	43.972	0.00	0.00
ATOM	1927	O	SER	X	125	48.382	52.747	43.866	0.00	0.00
ATOM	1928	N	LEU	X	126	47.380	50.742	43.610	0.00	0.00
ATOM	1929	H	LEU	X	126	46.563	50.200	43.851	0.00	0.00
ATOM	1930	CA	LEU	X	126	48.571	50.035	43.182	0.00	0.00
ATOM	1931	HA	LEU	X	126	49.460	50.530	43.572	0.00	0.00
ATOM	1932	CB	LEU	X	126	48.367	48.575	43.640	0.00	0.00
ATOM	1933	HB2	LEU	X	126	47.475	48.160	43.170	0.00	0.00
ATOM	1934	HB3	LEU	X	126	49.251	48.038	43.297	0.00	0.00
ATOM	1935	CG	LEU	X	126	48.260	48.279	45.189	0.00	0.00
ATOM	1936	HG	LEU	X	126	47.492	48.893	45.658	0.00	0.00
ATOM	1937	CD1	LEU	X	126	48.124	46.803	45.473	0.00	0.00
ATOM	1938	HD11	LEU	X	126	47.149	46.439	45.149	0.00	0.00
ATOM	1939	HD12	LEU	X	126	48.997	46.326	45.028	0.00	0.00
ATOM	1940	HD13	LEU	X	126	48.160	46.640	46.550	0.00	0.00
ATOM	1941	CD2	LEU	X	126	49.537	48.689	45.915	0.00	0.00
ATOM	1942	HD21	LEU	X	126	49.809	49.730	45.741	0.00	0.00
ATOM	1943	HD22	LEU	X	126	49.437	48.481	46.980	0.00	0.00
ATOM	1944	HD23	LEU	X	126	50.466	48.225	45.582	0.00	0.00
ATOM	1945	C	LEU	X	126	48.912	50.148	41.700	0.00	0.00
ATOM	1946	O	LEU	X	126	48.054	50.518	40.893	0.00	0.00
ATOM	1947	N	ASP	X	127	50.106	49.853	41.254	0.00	0.00
ATOM	1948	H	ASP	X	127	50.789	49.475	41.895	0.00	0.00
ATOM	1949	CA	ASP	X	127	50.707	50.466	40.026	0.00	0.00
ATOM	1950	HA	ASP	X	127	50.567	51.538	40.162	0.00	0.00
ATOM	1951	CB	ASP	X	127	52.185	50.056	40.039	0.00	0.00
ATOM	1952	HB2	ASP	X	127	52.588	50.109	41.051	0.00	0.00
ATOM	1953	HB3	ASP	X	127	52.299	48.992	39.829	0.00	0.00
ATOM	1954	CG	ASP	X	127	52.995	50.949	39.122	0.00	0.00
ATOM	1955	OD1	ASP	X	127	53.466	50.452	38.088	0.00	0.00
ATOM	1956	OD2	ASP	X	127	53.129	52.137	39.448	0.00	0.00
ATOM	1957	C	ASP	X	127	50.007	49.983	38.753	0.00	0.00
ATOM	1958	O	ASP	X	127	49.549	50.743	37.898	0.00	0.00
ATOM	1959	N	VAL	X	128	49.823	48.690	38.726	0.00	0.00
ATOM	1960	H	VAL	X	128	50.131	48.086	39.474	0.00	0.00
ATOM	1961	CA	VAL	X	128	49.234	47.992	37.495	0.00	0.00
ATOM	1962	HA	VAL	X	128	49.682	48.506	36.644	0.00	0.00

ATOM	1963	CB	VAL	X	128	49.489	46.473	37.498	0.00	0.00
ATOM	1964	HB	VAL	X	128	49.108	46.075	38.438	0.00	0.00
ATOM	1965	CG1	VAL	X	128	48.840	45.498	36.427	0.00	0.00
ATOM	1966	HG11	VAL	X	128	48.881	46.020	35.471	0.00	0.00
ATOM	1967	HG12	VAL	X	128	49.333	44.526	36.414	0.00	0.00
ATOM	1968	HG13	VAL	X	128	47.811	45.243	36.681	0.00	0.00
ATOM	1969	CG2	VAL	X	128	50.976	46.119	37.513	0.00	0.00
ATOM	1970	HG21	VAL	X	128	51.514	46.414	36.612	0.00	0.00
ATOM	1971	HG22	VAL	X	128	51.489	46.674	38.300	0.00	0.00
ATOM	1972	HG23	VAL	X	128	50.975	45.049	37.720	0.00	0.00
ATOM	1973	C	VAL	X	128	47.762	48.285	37.422	0.00	0.00
ATOM	1974	O	VAL	X	128	47.196	48.340	36.336	0.00	0.00
ATOM	1975	N	TYR	X	129	47.113	48.569	38.576	0.00	0.00
ATOM	1976	H	TYR	X	129	47.683	48.735	39.393	0.00	0.00
ATOM	1977	CA	TYR	X	129	45.627	48.895	38.605	0.00	0.00
ATOM	1978	HA	TYR	X	129	45.126	48.243	37.890	0.00	0.00
ATOM	1979	CB	TYR	X	129	45.058	48.598	40.045	0.00	0.00
ATOM	1980	HB2	TYR	X	129	45.361	49.357	40.766	0.00	0.00
ATOM	1981	HB3	TYR	X	129	43.987	48.706	39.871	0.00	0.00
ATOM	1982	CG	TYR	X	129	45.326	47.308	40.794	0.00	0.00
ATOM	1983	CD1	TYR	X	129	45.695	46.159	40.037	0.00	0.00
ATOM	1984	HD1	TYR	X	129	45.923	46.241	38.985	0.00	0.00
ATOM	1985	CE1	TYR	X	129	45.880	44.978	40.711	0.00	0.00
ATOM	1986	HE1	TYR	X	129	46.094	44.034	40.233	0.00	0.00
ATOM	1987	CZ	TYR	X	129	45.481	44.817	42.043	0.00	0.00
ATOM	1988	OH	TYR	X	129	45.516	43.609	42.557	0.00	0.00
ATOM	1989	HH	TYR	X	129	45.440	42.935	41.877	0.00	0.00
ATOM	1990	CE2	TYR	X	129	45.174	45.982	42.801	0.00	0.00
ATOM	1991	HE2	TYR	X	129	44.800	45.820	43.802	0.00	0.00
ATOM	1992	CD2	TYR	X	129	45.103	47.242	42.161	0.00	0.00
ATOM	1993	HD2	TYR	X	129	44.867	48.109	42.761	0.00	0.00
ATOM	1994	C	TYR	X	129	45.323	50.344	38.228	0.00	0.00
ATOM	1995	O	TYR	X	129	44.173	50.745	38.398	0.00	0.00
ATOM	1996	N	ASP	X	130	46.259	51.147	37.704	0.00	0.00
ATOM	1997	H	ASP	X	130	47.168	50.710	37.646	0.00	0.00
ATOM	1998	CA	ASP	X	130	45.953	52.452	37.215	0.00	0.00
ATOM	1999	HA	ASP	X	130	45.212	52.899	37.877	0.00	0.00
ATOM	2000	CB	ASP	X	130	47.265	53.207	37.093	0.00	0.00
ATOM	2001	HB2	ASP	X	130	47.786	53.196	38.051	0.00	0.00
ATOM	2002	HB3	ASP	X	130	47.956	52.787	36.363	0.00	0.00
ATOM	2003	CG	ASP	X	130	47.048	54.688	36.903	0.00	0.00
ATOM	2004	OD1	ASP	X	130	46.818	55.114	35.767	0.00	0.00
ATOM	2005	OD2	ASP	X	130	47.216	55.545	37.840	0.00	0.00
ATOM	2006	C	ASP	X	130	45.279	52.430	35.792	0.00	0.00
ATOM	2007	O	ASP	X	130	45.661	51.617	34.947	0.00	0.00
ATOM	2008	N	GLY	X	131	44.359	53.307	35.582	0.00	0.00
ATOM	2009	H	GLY	X	131	44.183	53.872	36.400	0.00	0.00
ATOM	2010	CA	GLY	X	131	43.464	53.378	34.445	0.00	0.00
ATOM	2011	HA2	GLY	X	131	43.202	52.431	34.125	0.00	0.00
ATOM	2012	HA3	GLY	X	131	42.595	54.019	34.757	0.00	0.00
ATOM	2013	C	GLY	X	131	43.978	54.080	33.168	0.00	0.00
ATOM	2014	O	GLY	X	131	43.338	54.058	32.106	0.00	0.00
ATOM	2015	N	ARG	X	132	45.182	54.726	33.301	0.00	0.00
ATOM	2016	H	ARG	X	132	45.635	54.698	34.203	0.00	0.00
ATOM	2017	CA	ARG	X	132	45.616	55.683	32.351	0.00	0.00
ATOM	2018	HA	ARG	X	132	44.837	56.440	32.255	0.00	0.00
ATOM	2019	CB	ARG	X	132	46.924	56.360	32.887	0.00	0.00
ATOM	2020	HB2	ARG	X	132	47.085	57.294	32.350	0.00	0.00
ATOM	2021	HB3	ARG	X	132	46.728	56.543	33.944	0.00	0.00
ATOM	2022	CG	ARG	X	132	48.231	55.572	32.809	0.00	0.00
ATOM	2023	HG2	ARG	X	132	47.983	54.628	33.293	0.00	0.00
ATOM	2024	HG3	ARG	X	132	48.478	55.600	31.747	0.00	0.00
ATOM	2025	CD	ARG	X	132	49.508	56.051	33.549	0.00	0.00
ATOM	2026	HD2	ARG	X	132	50.355	55.450	33.216	0.00	0.00
ATOM	2027	HD3	ARG	X	132	49.667	57.091	33.264	0.00	0.00
ATOM	2028	NE	ARG	X	132	49.392	55.912	34.995	0.00	0.00
ATOM	2029	HE	ARG	X	132	48.482	55.674	35.364	0.00	0.00
ATOM	2030	CZ	ARG	X	132	50.109	56.576	35.878	0.00	0.00
ATOM	2031	NH1	ARG	X	132	51.252	57.100	35.492	0.00	0.00
ATOM	2032	HH11	ARG	X	132	51.613	56.822	34.590	0.00	0.00

ATOM	2033	HH12	ARG	X	132	51.666	57.794	36.098	0.00	0.00
ATOM	2034	NH2	ARG	X	132	49.714	56.695	37.139	0.00	0.00
ATOM	2035	HH21	ARG	X	132	48.860	56.193	37.338	0.00	0.00
ATOM	2036	HH22	ARG	X	132	50.240	57.162	37.864	0.00	0.00
ATOM	2037	C	ARG	X	132	45.804	55.206	30.923	0.00	0.00
ATOM	2038	O	ARG	X	132	45.172	55.771	30.058	0.00	0.00
ATOM	2039	N	PHE	X	133	46.577	54.150	30.686	0.00	0.00
ATOM	2040	H	PHE	X	133	46.793	53.528	31.451	0.00	0.00
ATOM	2041	CA	PHE	X	133	46.786	53.598	29.348	0.00	0.00
ATOM	2042	HA	PHE	X	133	47.094	54.388	28.662	0.00	0.00
ATOM	2043	CB	PHE	X	133	47.796	52.453	29.442	0.00	0.00
ATOM	2044	HB2	PHE	X	133	47.459	51.651	30.100	0.00	0.00
ATOM	2045	HB3	PHE	X	133	47.902	51.945	28.484	0.00	0.00
ATOM	2046	CG	PHE	X	133	49.200	52.825	29.998	0.00	0.00
ATOM	2047	CD1	PHE	X	133	49.648	52.596	31.346	0.00	0.00
ATOM	2048	HD1	PHE	X	133	49.014	51.939	31.923	0.00	0.00
ATOM	2049	CE1	PHE	X	133	50.833	53.081	31.854	0.00	0.00
ATOM	2050	HE1	PHE	X	133	50.964	53.027	32.924	0.00	0.00
ATOM	2051	CZ	PHE	X	133	51.565	53.902	30.995	0.00	0.00
ATOM	2052	HZ	PHE	X	133	52.440	54.365	31.428	0.00	0.00
ATOM	2053	CE2	PHE	X	133	51.206	54.143	29.653	0.00	0.00
ATOM	2054	HE2	PHE	X	133	51.866	54.734	29.035	0.00	0.00
ATOM	2055	CD2	PHE	X	133	49.880	53.734	29.304	0.00	0.00
ATOM	2056	HD2	PHE	X	133	49.507	54.002	28.326	0.00	0.00
ATOM	2057	C	PHE	X	133	45.453	53.135	28.755	0.00	0.00
ATOM	2058	O	PHE	X	133	45.284	53.275	27.540	0.00	0.00
ATOM	2059	N	LEU	X	134	44.575	52.569	29.541	0.00	0.00
ATOM	2060	H	LEU	X	134	44.999	52.384	30.439	0.00	0.00
ATOM	2061	CA	LEU	X	134	43.273	51.999	29.119	0.00	0.00
ATOM	2062	HA	LEU	X	134	43.520	51.337	28.289	0.00	0.00
ATOM	2063	CB	LEU	X	134	42.726	51.036	30.208	0.00	0.00
ATOM	2064	HB2	LEU	X	134	43.424	50.216	30.371	0.00	0.00
ATOM	2065	HB3	LEU	X	134	42.752	51.542	31.173	0.00	0.00
ATOM	2066	CG	LEU	X	134	41.304	50.461	30.067	0.00	0.00
ATOM	2067	HG	LEU	X	134	40.591	51.283	30.000	0.00	0.00
ATOM	2068	CD1	LEU	X	134	41.317	49.508	28.856	0.00	0.00
ATOM	2069	HD11	LEU	X	134	42.107	48.764	28.960	0.00	0.00
ATOM	2070	HD12	LEU	X	134	40.355	49.019	28.703	0.00	0.00
ATOM	2071	HD13	LEU	X	134	41.559	50.026	27.928	0.00	0.00
ATOM	2072	CD2	LEU	X	134	40.955	49.686	31.312	0.00	0.00
ATOM	2073	HD21	LEU	X	134	39.932	49.325	31.205	0.00	0.00
ATOM	2074	HD22	LEU	X	134	41.671	48.864	31.311	0.00	0.00
ATOM	2075	HD23	LEU	X	134	41.149	50.314	32.181	0.00	0.00
ATOM	2076	C	LEU	X	134	42.291	53.058	28.686	0.00	0.00
ATOM	2077	O	LEU	X	134	41.752	52.995	27.524	0.00	0.00
ATOM	2078	N	VAL	X	135	42.014	54.010	29.573	0.00	0.00
ATOM	2079	H	VAL	X	135	42.373	53.865	30.506	0.00	0.00
ATOM	2080	CA	VAL	X	135	41.254	55.143	29.211	0.00	0.00
ATOM	2081	HA	VAL	X	135	40.258	54.735	29.045	0.00	0.00
ATOM	2082	CB	VAL	X	135	41.215	56.108	30.385	0.00	0.00
ATOM	2083	HB	VAL	X	135	42.232	56.243	30.753	0.00	0.00
ATOM	2084	CG1	VAL	X	135	40.508	57.444	30.226	0.00	0.00
ATOM	2085	HG11	VAL	X	135	40.971	57.939	29.372	0.00	0.00
ATOM	2086	HG12	VAL	X	135	39.498	57.241	29.871	0.00	0.00
ATOM	2087	HG13	VAL	X	135	40.671	58.066	31.105	0.00	0.00
ATOM	2088	CG2	VAL	X	135	40.489	55.544	31.622	0.00	0.00
ATOM	2089	HG21	VAL	X	135	40.658	56.270	32.417	0.00	0.00
ATOM	2090	HG22	VAL	X	135	39.426	55.453	31.398	0.00	0.00
ATOM	2091	HG23	VAL	X	135	40.851	54.565	31.935	0.00	0.00
ATOM	2092	C	VAL	X	135	41.799	55.755	27.956	0.00	0.00
ATOM	2093	O	VAL	X	135	41.057	56.226	27.184	0.00	0.00
ATOM	2094	N	GLN	X	136	43.113	55.969	27.914	0.00	0.00
ATOM	2095	H	GLN	X	136	43.677	55.682	28.701	0.00	0.00
ATOM	2096	CA	GLN	X	136	43.735	56.442	26.650	0.00	0.00
ATOM	2097	HA	GLN	X	136	43.303	57.436	26.534	0.00	0.00
ATOM	2098	CB	GLN	X	136	45.292	56.609	26.794	0.00	0.00
ATOM	2099	HB2	GLN	X	136	45.519	57.054	27.763	0.00	0.00
ATOM	2100	HB3	GLN	X	136	45.735	55.632	26.988	0.00	0.00
ATOM	2101	CG	GLN	X	136	45.961	57.347	25.634	0.00	0.00
ATOM	2102	HG2	GLN	X	136	45.282	57.652	24.838	0.00	0.00

ATOM	2103	HG3	GLN	X	136	46.420	58.270	25.988	0.00	0.00
ATOM	2104	CD	GLN	X	136	47.146	56.596	25.022	0.00	0.00
ATOM	2105	OE1	GLN	X	136	48.296	56.757	25.317	0.00	0.00
ATOM	2106	NE2	GLN	X	136	47.039	55.709	24.044	0.00	0.00
ATOM	2107	HE21	GLN	X	136	47.827	55.387	23.500	0.00	0.00
ATOM	2108	HE22	GLN	X	136	46.112	55.458	23.732	0.00	0.00
ATOM	2109	C	GLN	X	136	43.382	55.608	25.335	0.00	0.00
ATOM	2110	O	GLN	X	136	42.820	56.063	24.343	0.00	0.00
ATOM	2111	N	ALA	X	137	43.678	54.259	25.270	0.00	0.00
ATOM	2112	H	ALA	X	137	44.201	53.810	26.008	0.00	0.00
ATOM	2113	CA	ALA	X	137	43.648	53.416	24.075	0.00	0.00
ATOM	2114	HA	ALA	X	137	44.008	54.039	23.256	0.00	0.00
ATOM	2115	CB	ALA	X	137	44.588	52.285	24.271	0.00	0.00
ATOM	2116	HB1	ALA	X	137	44.909	51.872	23.314	0.00	0.00
ATOM	2117	HB2	ALA	X	137	45.518	52.554	24.772	0.00	0.00
ATOM	2118	HB3	ALA	X	137	44.093	51.470	24.798	0.00	0.00
ATOM	2119	C	ALA	X	137	42.274	52.983	23.585	0.00	0.00
ATOM	2120	O	ALA	X	137	42.089	52.852	22.367	0.00	0.00
ATOM	2121	N	GLU	X	138	41.180	52.896	24.415	0.00	0.00
ATOM	2122	H	GLU	X	138	41.262	53.147	25.390	0.00	0.00
ATOM	2123	CA	GLU	X	138	39.888	52.445	24.031	0.00	0.00
ATOM	2124	HA	GLU	X	138	39.675	52.776	23.015	0.00	0.00
ATOM	2125	CB	GLU	X	138	39.694	50.947	24.432	0.00	0.00
ATOM	2126	HB2	GLU	X	138	40.021	50.780	25.458	0.00	0.00
ATOM	2127	HB3	GLU	X	138	38.648	50.683	24.278	0.00	0.00
ATOM	2128	CG	GLU	X	138	40.415	49.920	23.468	0.00	0.00
ATOM	2129	HG2	GLU	X	138	41.478	50.141	23.370	0.00	0.00
ATOM	2130	HG3	GLU	X	138	40.283	48.948	23.944	0.00	0.00
ATOM	2131	CD	GLU	X	138	39.927	49.891	22.010	0.00	0.00
ATOM	2132	OE1	GLU	X	138	38.711	49.929	21.792	0.00	0.00
ATOM	2133	OE2	GLU	X	138	40.686	49.777	21.039	0.00	0.00
ATOM	2134	C	GLU	X	138	38.753	53.238	24.693	0.00	0.00
ATOM	2135	O	GLU	X	138	37.552	53.073	24.387	0.00	0.00
ATOM	2136	N	ARG	X	139	39.035	54.222	25.586	0.00	0.00
ATOM	2137	H	ARG	X	139	40.017	54.263	25.822	0.00	0.00
ATOM	2138	CA	ARG	X	139	38.189	55.331	26.048	0.00	0.00
ATOM	2139	HA	ARG	X	139	38.867	55.919	26.668	0.00	0.00
ATOM	2140	CB	ARG	X	139	37.707	56.252	24.904	0.00	0.00
ATOM	2141	HB2	ARG	X	139	38.599	56.477	24.318	0.00	0.00
ATOM	2142	HB3	ARG	X	139	37.062	55.704	24.216	0.00	0.00
ATOM	2143	CG	ARG	X	139	37.042	57.553	25.295	0.00	0.00
ATOM	2144	HG2	ARG	X	139	35.984	57.415	25.521	0.00	0.00
ATOM	2145	HG3	ARG	X	139	37.551	57.969	26.164	0.00	0.00
ATOM	2146	CD	ARG	X	139	37.112	58.596	24.167	0.00	0.00
ATOM	2147	HD2	ARG	X	139	38.139	58.957	24.211	0.00	0.00
ATOM	2148	HD3	ARG	X	139	36.946	58.091	23.215	0.00	0.00
ATOM	2149	NE	ARG	X	139	36.231	59.717	24.439	0.00	0.00
ATOM	2150	HE	ARG	X	139	35.561	59.589	25.184	0.00	0.00
ATOM	2151	CZ	ARG	X	139	36.232	60.974	23.928	0.00	0.00
ATOM	2152	NH1	ARG	X	139	36.880	61.270	22.847	0.00	0.00
ATOM	2153	HH11	ARG	X	139	37.443	60.573	22.381	0.00	0.00
ATOM	2154	HH12	ARG	X	139	36.808	62.201	22.463	0.00	0.00
ATOM	2155	NH2	ARG	X	139	35.589	61.869	24.578	0.00	0.00
ATOM	2156	HH21	ARG	X	139	35.074	61.599	25.403	0.00	0.00
ATOM	2157	HH22	ARG	X	139	35.573	62.845	24.318	0.00	0.00
ATOM	2158	C	ARG	X	139	37.035	54.905	27.018	0.00	0.00
ATOM	2159	O	ARG	X	139	36.261	55.780	27.385	0.00	0.00
ATOM	2160	N	THR	X	140	37.007	53.640	27.460	0.00	0.00
ATOM	2161	H	THR	X	140	37.788	53.085	27.140	0.00	0.00
ATOM	2162	CA	THR	X	140	36.240	53.185	28.640	0.00	0.00
ATOM	2163	HA	THR	X	140	35.186	53.434	28.516	0.00	0.00
ATOM	2164	CB	THR	X	140	36.280	51.615	28.664	0.00	0.00
ATOM	2165	HB	THR	X	140	35.994	51.360	29.684	0.00	0.00
ATOM	2166	CG2	THR	X	140	35.478	50.892	27.592	0.00	0.00
ATOM	2167	HG21	THR	X	140	35.125	49.890	27.837	0.00	0.00
ATOM	2168	HG22	THR	X	140	34.608	51.516	27.390	0.00	0.00
ATOM	2169	HG23	THR	X	140	36.092	51.035	26.702	0.00	0.00
ATOM	2170	OG1	THR	X	140	37.665	51.301	28.605	0.00	0.00
ATOM	2171	HG1	THR	X	140	38.126	51.901	29.195	0.00	0.00
ATOM	2172	C	THR	X	140	36.822	53.715	29.874	0.00	0.00

ATOM	2173	O	THR	X	140	37.994	53.630	30.142	0.00	0.00
ATOM	2174	N	VAL	X	141	35.951	54.293	30.720	0.00	0.00
ATOM	2175	H	VAL	X	141	34.964	54.212	30.524	0.00	0.00
ATOM	2176	CA	VAL	X	141	36.291	54.937	31.940	0.00	0.00
ATOM	2177	HA	VAL	X	141	37.297	55.334	31.807	0.00	0.00
ATOM	2178	CB	VAL	X	141	35.280	55.959	32.493	0.00	0.00
ATOM	2179	HB	VAL	X	141	34.294	55.546	32.280	0.00	0.00
ATOM	2180	CG1	VAL	X	141	35.358	56.361	34.067	0.00	0.00
ATOM	2181	HG11	VAL	X	141	36.299	56.884	34.233	0.00	0.00
ATOM	2182	HG12	VAL	X	141	34.457	56.850	34.440	0.00	0.00
ATOM	2183	HG13	VAL	X	141	35.633	55.493	34.665	0.00	0.00
ATOM	2184	CG2	VAL	X	141	35.474	57.187	31.585	0.00	0.00
ATOM	2185	HG21	VAL	X	141	34.605	57.818	31.769	0.00	0.00
ATOM	2186	HG22	VAL	X	141	36.410	57.707	31.789	0.00	0.00
ATOM	2187	HG23	VAL	X	141	35.499	56.958	30.519	0.00	0.00
ATOM	2188	C	VAL	X	141	36.619	53.930	33.005	0.00	0.00
ATOM	2189	O	VAL	X	141	35.878	53.016	33.234	0.00	0.00
ATOM	2190	N	LEU	X	142	37.702	54.043	33.771	0.00	0.00
ATOM	2191	H	LEU	X	142	38.372	54.779	33.600	0.00	0.00
ATOM	2192	CA	LEU	X	142	38.131	53.041	34.803	0.00	0.00
ATOM	2193	HA	LEU	X	142	37.508	52.162	34.642	0.00	0.00
ATOM	2194	CB	LEU	X	142	39.584	52.653	34.558	0.00	0.00
ATOM	2195	HB2	LEU	X	142	39.585	52.129	33.603	0.00	0.00
ATOM	2196	HB3	LEU	X	142	40.321	53.444	34.414	0.00	0.00
ATOM	2197	CG	LEU	X	142	40.342	51.653	35.413	0.00	0.00
ATOM	2198	HG	LEU	X	142	41.235	51.425	34.831	0.00	0.00
ATOM	2199	CD1	LEU	X	142	40.777	52.120	36.760	0.00	0.00
ATOM	2200	HD11	LEU	X	142	41.262	53.076	36.566	0.00	0.00
ATOM	2201	HD12	LEU	X	142	39.945	52.148	37.464	0.00	0.00
ATOM	2202	HD13	LEU	X	142	41.472	51.384	37.165	0.00	0.00
ATOM	2203	CD2	LEU	X	142	39.573	50.284	35.561	0.00	0.00
ATOM	2204	HD21	LEU	X	142	40.275	49.558	35.969	0.00	0.00
ATOM	2205	HD22	LEU	X	142	38.832	50.486	36.335	0.00	0.00
ATOM	2206	HD23	LEU	X	142	39.160	50.095	34.570	0.00	0.00
ATOM	2207	C	LEU	X	142	37.829	53.698	36.244	0.00	0.00
ATOM	2208	O	LEU	X	142	38.231	54.800	36.548	0.00	0.00
ATOM	2209	N	VAL	X	143	37.121	52.912	37.073	0.00	0.00
ATOM	2210	H	VAL	X	143	36.924	51.967	36.774	0.00	0.00
ATOM	2211	CA	VAL	X	143	36.798	53.298	38.431	0.00	0.00
ATOM	2212	HA	VAL	X	143	37.307	54.216	38.725	0.00	0.00
ATOM	2213	CB	VAL	X	143	35.284	53.407	38.634	0.00	0.00
ATOM	2214	HB	VAL	X	143	34.834	52.570	38.100	0.00	0.00
ATOM	2215	CG1	VAL	X	143	34.785	53.338	40.066	0.00	0.00
ATOM	2216	HG11	VAL	X	143	34.814	52.311	40.431	0.00	0.00
ATOM	2217	HG12	VAL	X	143	35.275	54.014	40.767	0.00	0.00
ATOM	2218	HG13	VAL	X	143	33.741	53.639	39.978	0.00	0.00
ATOM	2219	CG2	VAL	X	143	34.883	54.686	38.004	0.00	0.00
ATOM	2220	HG21	VAL	X	143	35.293	55.549	38.530	0.00	0.00
ATOM	2221	HG22	VAL	X	143	35.187	54.772	36.961	0.00	0.00
ATOM	2222	HG23	VAL	X	143	33.795	54.743	38.020	0.00	0.00
ATOM	2223	C	VAL	X	143	37.331	52.201	39.426	0.00	0.00
ATOM	2224	O	VAL	X	143	37.216	50.993	39.134	0.00	0.00
ATOM	2225	N	SER	X	144	37.865	52.619	40.542	0.00	0.00
ATOM	2226	H	SER	X	144	37.859	53.602	40.770	0.00	0.00
ATOM	2227	CA	SER	X	144	38.443	51.731	41.579	0.00	0.00
ATOM	2228	HA	SER	X	144	37.878	50.800	41.561	0.00	0.00
ATOM	2229	CB	SER	X	144	39.889	51.461	41.183	0.00	0.00
ATOM	2230	HB2	SER	X	144	39.905	51.108	40.152	0.00	0.00
ATOM	2231	HB3	SER	X	144	40.395	52.418	41.307	0.00	0.00
ATOM	2232	OG	SER	X	144	40.454	50.466	42.001	0.00	0.00
ATOM	2233	HG	SER	X	144	41.337	50.481	41.624	0.00	0.00
ATOM	2234	C	SER	X	144	38.228	52.290	43.047	0.00	0.00
ATOM	2235	O	SER	X	144	38.425	53.512	43.248	0.00	0.00
ATOM	2236	N	MET	X	145	37.900	51.566	44.068	0.00	0.00
ATOM	2237	H	MET	X	145	37.766	50.584	43.874	0.00	0.00
ATOM	2238	CA	MET	X	145	37.606	51.928	45.464	0.00	0.00
ATOM	2239	HA	MET	X	145	37.863	52.987	45.489	0.00	0.00
ATOM	2240	CB	MET	X	145	36.128	51.828	45.759	0.00	0.00
ATOM	2241	HB2	MET	X	145	35.941	52.625	46.478	0.00	0.00
ATOM	2242	HB3	MET	X	145	35.524	52.068	44.884	0.00	0.00

ATOM	2243	CG	MET	X	145	35.616	50.445	46.251	0.00	0.00
ATOM	2244	HG2	MET	X	145	36.183	50.042	47.090	0.00	0.00
ATOM	2245	HG3	MET	X	145	34.577	50.523	46.569	0.00	0.00
ATOM	2246	SD	MET	X	145	35.517	49.158	44.944	0.00	0.00
ATOM	2247	CE	MET	X	145	34.673	50.030	43.635	0.00	0.00
ATOM	2248	HE1	MET	X	145	33.653	50.359	43.837	0.00	0.00
ATOM	2249	HE2	MET	X	145	35.245	50.893	43.295	0.00	0.00
ATOM	2250	HE3	MET	X	145	34.552	49.420	42.739	0.00	0.00
ATOM	2251	C	MET	X	145	38.415	51.063	46.465	0.00	0.00
ATOM	2252	O	MET	X	145	38.510	49.842	46.327	0.00	0.00
ATOM	2253	N	ASN	X	146	38.897	51.724	47.521	0.00	0.00
ATOM	2254	H	ASN	X	146	38.694	52.713	47.520	0.00	0.00
ATOM	2255	CA	ASN	X	146	39.342	51.074	48.809	0.00	0.00
ATOM	2256	HA	ASN	X	146	39.929	50.251	48.401	0.00	0.00
ATOM	2257	CB	ASN	X	146	40.117	52.091	49.607	0.00	0.00
ATOM	2258	HB2	ASN	X	146	39.602	53.051	49.567	0.00	0.00
ATOM	2259	HB3	ASN	X	146	40.249	51.687	50.610	0.00	0.00
ATOM	2260	CG	ASN	X	146	41.573	52.417	49.160	0.00	0.00
ATOM	2261	OD1	ASN	X	146	42.169	51.706	48.384	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.095	53.500	49.723	0.00	0.00
ATOM	2263	HD21	ASN	X	146	42.948	53.855	49.315	0.00	0.00
ATOM	2264	HD22	ASN	X	146	41.645	53.998	50.478	0.00	0.00
ATOM	2265	C	ASN	X	146	38.121	50.449	49.583	0.00	0.00
ATOM	2266	O	ASN	X	146	36.974	50.961	49.700	0.00	0.00
ATOM	2267	N	TYR	X	147	38.377	49.255	50.059	0.00	0.00
ATOM	2268	H	TYR	X	147	39.229	48.775	49.808	0.00	0.00
ATOM	2269	CA	TYR	X	147	37.466	48.508	50.938	0.00	0.00
ATOM	2270	HA	TYR	X	147	36.868	49.235	51.489	0.00	0.00
ATOM	2271	CB	TYR	X	147	36.496	47.647	50.180	0.00	0.00
ATOM	2272	HB2	TYR	X	147	35.812	47.190	50.895	0.00	0.00
ATOM	2273	HB3	TYR	X	147	35.910	48.320	49.554	0.00	0.00
ATOM	2274	CG	TYR	X	147	37.132	46.639	49.177	0.00	0.00
ATOM	2275	CD1	TYR	X	147	37.457	47.168	47.938	0.00	0.00
ATOM	2276	HD1	TYR	X	147	37.192	48.192	47.718	0.00	0.00
ATOM	2277	CE1	TYR	X	147	37.940	46.394	46.894	0.00	0.00
ATOM	2278	HE1	TYR	X	147	38.098	46.860	45.933	0.00	0.00
ATOM	2279	CZ	TYR	X	147	38.384	45.036	47.175	0.00	0.00
ATOM	2280	OH	TYR	X	147	39.012	44.283	46.276	0.00	0.00
ATOM	2281	HH	TYR	X	147	39.331	43.421	46.553	0.00	0.00
ATOM	2282	CE2	TYR	X	147	38.169	44.583	48.505	0.00	0.00
ATOM	2283	HE2	TYR	X	147	38.520	43.583	48.712	0.00	0.00
ATOM	2284	CD2	TYR	X	147	37.492	45.329	49.490	0.00	0.00
ATOM	2285	HD2	TYR	X	147	37.306	44.975	50.493	0.00	0.00
ATOM	2286	C	TYR	X	147	38.216	47.630	52.004	0.00	0.00
ATOM	2287	O	TYR	X	147	39.416	47.327	51.937	0.00	0.00
ATOM	2288	N	ARG	X	148	37.454	47.256	53.063	0.00	0.00
ATOM	2289	H	ARG	X	148	36.465	47.449	53.134	0.00	0.00
ATOM	2290	CA	ARG	X	148	38.014	46.642	54.250	0.00	0.00
ATOM	2291	HA	ARG	X	148	38.870	47.239	54.564	0.00	0.00
ATOM	2292	CB	ARG	X	148	37.052	46.763	55.434	0.00	0.00
ATOM	2293	HB2	ARG	X	148	36.093	46.274	55.262	0.00	0.00
ATOM	2294	HB3	ARG	X	148	37.430	46.210	56.294	0.00	0.00
ATOM	2295	CG	ARG	X	148	36.940	48.234	55.873	0.00	0.00
ATOM	2296	HG2	ARG	X	148	37.901	48.563	56.267	0.00	0.00
ATOM	2297	HG3	ARG	X	148	36.660	48.753	54.956	0.00	0.00
ATOM	2298	CD	ARG	X	148	35.835	48.382	56.986	0.00	0.00
ATOM	2299	HD2	ARG	X	148	35.891	47.502	57.627	0.00	0.00
ATOM	2300	HD3	ARG	X	148	36.008	49.308	57.533	0.00	0.00
ATOM	2301	NE	ARG	X	148	34.532	48.530	56.380	0.00	0.00
ATOM	2302	HE	ARG	X	148	34.535	48.370	55.383	0.00	0.00
ATOM	2303	CZ	ARG	X	148	33.434	48.540	57.181	0.00	0.00
ATOM	2304	NH1	ARG	X	148	33.509	48.386	58.520	0.00	0.00
ATOM	2305	HH11	ARG	X	148	34.357	48.086	58.979	0.00	0.00
ATOM	2306	HH12	ARG	X	148	32.629	48.516	58.999	0.00	0.00
ATOM	2307	NH2	ARG	X	148	32.252	48.552	56.503	0.00	0.00
ATOM	2308	HH21	ARG	X	148	32.340	48.541	55.497	0.00	0.00
ATOM	2309	HH22	ARG	X	148	31.378	48.525	57.007	0.00	0.00
ATOM	2310	C	ARG	X	148	38.401	45.160	53.990	0.00	0.00
ATOM	2311	O	ARG	X	148	37.745	44.263	54.486	0.00	0.00
ATOM	2312	N	VAL	X	149	39.395	44.935	53.181	0.00	0.00

ATOM	2313	H	VAL	X	149	39.791	45.742	52.721	0.00	0.00
ATOM	2314	CA	VAL	X	149	40.235	43.737	53.160	0.00	0.00
ATOM	2315	HA	VAL	X	149	39.611	42.894	52.865	0.00	0.00
ATOM	2316	CB	VAL	X	149	41.353	43.892	52.071	0.00	0.00
ATOM	2317	HB	VAL	X	149	42.025	43.047	52.225	0.00	0.00
ATOM	2318	CG1	VAL	X	149	40.632	43.922	50.691	0.00	0.00
ATOM	2319	HG11	VAL	X	149	41.450	43.844	49.974	0.00	0.00
ATOM	2320	HG12	VAL	X	149	39.923	43.100	50.589	0.00	0.00
ATOM	2321	HG13	VAL	X	149	40.196	44.918	50.611	0.00	0.00
ATOM	2322	CG2	VAL	X	149	42.183	45.177	52.253	0.00	0.00
ATOM	2323	HG21	VAL	X	149	42.742	45.147	53.188	0.00	0.00
ATOM	2324	HG22	VAL	X	149	42.851	45.187	51.392	0.00	0.00
ATOM	2325	HG23	VAL	X	149	41.603	46.093	52.361	0.00	0.00
ATOM	2326	C	VAL	X	149	40.776	43.501	54.569	0.00	0.00
ATOM	2327	O	VAL	X	149	41.256	44.467	55.175	0.00	0.00
ATOM	2328	N	GLY	X	150	40.766	42.307	55.135	0.00	0.00
ATOM	2329	H	GLY	X	150	40.181	41.703	54.576	0.00	0.00
ATOM	2330	CA	GLY	X	150	41.145	41.895	56.505	0.00	0.00
ATOM	2331	HA2	GLY	X	150	41.490	40.900	56.307	0.00	0.00
ATOM	2332	HA3	GLY	X	150	41.867	42.503	56.945	0.00	0.00
ATOM	2333	C	GLY	X	150	40.011	41.668	57.531	0.00	0.00
ATOM	2334	O	GLY	X	150	38.878	41.877	57.157	0.00	0.00
ATOM	2335	N	ALA	X	151	40.343	41.302	58.793	0.00	0.00
ATOM	2336	H	ALA	X	151	41.272	41.002	59.051	0.00	0.00
ATOM	2337	CA	ALA	X	151	39.345	41.055	59.847	0.00	0.00
ATOM	2338	HA	ALA	X	151	38.722	40.201	59.581	0.00	0.00
ATOM	2339	CB	ALA	X	151	40.122	40.790	61.178	0.00	0.00
ATOM	2340	HB1	ALA	X	151	41.044	41.361	61.076	0.00	0.00
ATOM	2341	HB2	ALA	X	151	39.541	41.147	62.028	0.00	0.00
ATOM	2342	HB3	ALA	X	151	40.286	39.720	61.310	0.00	0.00
ATOM	2343	C	ALA	X	151	38.399	42.249	60.058	0.00	0.00
ATOM	2344	O	ALA	X	151	37.228	42.062	60.359	0.00	0.00
ATOM	2345	N	PHE	X	152	38.822	43.426	59.658	0.00	0.00
ATOM	2346	H	PHE	X	152	39.705	43.448	59.168	0.00	0.00
ATOM	2347	CA	PHE	X	152	38.094	44.632	59.741	0.00	0.00
ATOM	2348	HA	PHE	X	152	37.991	44.848	60.804	0.00	0.00
ATOM	2349	CB	PHE	X	152	39.113	45.717	59.311	0.00	0.00
ATOM	2350	HB2	PHE	X	152	40.036	45.643	59.886	0.00	0.00
ATOM	2351	HB3	PHE	X	152	39.362	45.503	58.272	0.00	0.00
ATOM	2352	CG	PHE	X	152	38.627	47.176	59.411	0.00	0.00
ATOM	2353	CD1	PHE	X	152	37.567	47.569	60.301	0.00	0.00
ATOM	2354	HD1	PHE	X	152	37.049	46.880	60.952	0.00	0.00
ATOM	2355	CE1	PHE	X	152	37.140	48.895	60.342	0.00	0.00
ATOM	2356	HE1	PHE	X	152	36.292	49.247	60.911	0.00	0.00
ATOM	2357	CZ	PHE	X	152	37.743	49.852	59.548	0.00	0.00
ATOM	2358	HZ	PHE	X	152	37.271	50.823	59.532	0.00	0.00
ATOM	2359	CE2	PHE	X	152	38.759	49.529	58.635	0.00	0.00
ATOM	2360	HE2	PHE	X	152	39.232	50.181	57.916	0.00	0.00
ATOM	2361	CD2	PHE	X	152	39.190	48.175	58.564	0.00	0.00
ATOM	2362	HD2	PHE	X	152	39.983	47.858	57.903	0.00	0.00
ATOM	2363	C	PHE	X	152	36.767	44.743	58.910	0.00	0.00
ATOM	2364	O	PHE	X	152	35.768	45.287	59.363	0.00	0.00
ATOM	2365	N	GLY	X	153	36.654	44.090	57.721	0.00	0.00
ATOM	2366	H	GLY	X	153	37.516	43.689	57.379	0.00	0.00
ATOM	2367	CA	GLY	X	153	35.450	43.946	56.900	0.00	0.00
ATOM	2368	HA2	GLY	X	153	34.683	44.732	57.331	0.00	0.00
ATOM	2369	HA3	GLY	X	153	35.696	44.183	55.901	0.00	0.00
ATOM	2370	C	GLY	X	153	34.762	42.581	56.995	0.00	0.00
ATOM	2371	O	GLY	X	153	33.709	42.436	56.386	0.00	0.00
ATOM	2372	N	PHE	X	154	35.328	41.567	57.641	0.00	0.00
ATOM	2373	H	PHE	X	154	36.213	41.701	58.107	0.00	0.00
ATOM	2374	CA	PHE	X	154	34.880	40.223	57.449	0.00	0.00
ATOM	2375	HA	PHE	X	154	34.004	40.151	56.804	0.00	0.00
ATOM	2376	CB	PHE	X	154	35.949	39.488	56.609	0.00	0.00
ATOM	2377	HB2	PHE	X	154	36.982	39.675	56.901	0.00	0.00
ATOM	2378	HB3	PHE	X	154	35.702	38.431	56.505	0.00	0.00
ATOM	2379	CG	PHE	X	154	35.817	39.938	55.155	0.00	0.00
ATOM	2380	CD1	PHE	X	154	36.852	40.581	54.432	0.00	0.00
ATOM	2381	HD1	PHE	X	154	37.768	40.745	54.980	0.00	0.00
ATOM	2382	CE1	PHE	X	154	36.616	41.245	53.204	0.00	0.00

ATOM	2383	HE1	PHE	X	154	37.430	41.819	52.788	0.00	0.00
ATOM	2384	CZ	PHE	X	154	35.439	40.995	52.501	0.00	0.00
ATOM	2385	HZ	PHE	X	154	35.240	41.531	51.585	0.00	0.00
ATOM	2386	CE2	PHE	X	154	34.421	40.287	53.147	0.00	0.00
ATOM	2387	HE2	PHE	X	154	33.465	40.116	52.676	0.00	0.00
ATOM	2388	CD2	PHE	X	154	34.607	39.761	54.438	0.00	0.00
ATOM	2389	HD2	PHE	X	154	33.793	39.227	54.905	0.00	0.00
ATOM	2390	C	PHE	X	154	34.528	39.463	58.707	0.00	0.00
ATOM	2391	O	PHE	X	154	33.931	38.353	58.528	0.00	0.00
ATOM	2392	N	LEU	X	155	34.778	40.012	59.932	0.00	0.00
ATOM	2393	H	LEU	X	155	35.532	40.676	60.037	0.00	0.00
ATOM	2394	CA	LEU	X	155	34.265	39.400	61.181	0.00	0.00
ATOM	2395	HA	LEU	X	155	34.609	38.367	61.238	0.00	0.00
ATOM	2396	CB	LEU	X	155	34.845	40.196	62.300	0.00	0.00
ATOM	2397	HB2	LEU	X	155	35.859	40.559	62.131	0.00	0.00
ATOM	2398	HB3	LEU	X	155	34.221	41.077	62.449	0.00	0.00
ATOM	2399	CG	LEU	X	155	34.852	39.385	63.626	0.00	0.00
ATOM	2400	HG	LEU	X	155	35.001	38.308	63.549	0.00	0.00
ATOM	2401	CD1	LEU	X	155	35.989	39.975	64.491	0.00	0.00
ATOM	2402	HD11	LEU	X	155	35.807	41.020	64.739	0.00	0.00
ATOM	2403	HD12	LEU	X	155	36.076	39.347	65.379	0.00	0.00
ATOM	2404	HD13	LEU	X	155	36.958	40.023	63.994	0.00	0.00
ATOM	2405	CD2	LEU	X	155	33.507	39.665	64.388	0.00	0.00
ATOM	2406	HD21	LEU	X	155	33.431	40.724	64.635	0.00	0.00
ATOM	2407	HD22	LEU	X	155	32.670	39.372	63.755	0.00	0.00
ATOM	2408	HD23	LEU	X	155	33.475	39.050	65.288	0.00	0.00
ATOM	2409	C	LEU	X	155	32.772	39.261	61.120	0.00	0.00
ATOM	2410	O	LEU	X	155	32.017	40.210	60.772	0.00	0.00
ATOM	2411	N	ALA	X	156	32.261	38.088	61.545	0.00	0.00
ATOM	2412	H	ALA	X	156	32.890	37.375	61.887	0.00	0.00
ATOM	2413	CA	ALA	X	156	30.784	37.932	61.683	0.00	0.00
ATOM	2414	HA	ALA	X	156	30.329	38.922	61.658	0.00	0.00
ATOM	2415	CB	ALA	X	156	30.129	37.283	60.455	0.00	0.00
ATOM	2416	HB1	ALA	X	156	30.725	37.616	59.605	0.00	0.00
ATOM	2417	HB2	ALA	X	156	30.159	36.195	60.415	0.00	0.00
ATOM	2418	HB3	ALA	X	156	29.125	37.703	60.389	0.00	0.00
ATOM	2419	C	ALA	X	156	30.514	37.198	63.052	0.00	0.00
ATOM	2420	O	ALA	X	156	31.423	36.774	63.739	0.00	0.00
ATOM	2421	N	LEU	X	157	29.240	37.063	63.370	0.00	0.00
ATOM	2422	H	LEU	X	157	28.486	37.423	62.803	0.00	0.00
ATOM	2423	CA	LEU	X	157	28.743	36.486	64.667	0.00	0.00
ATOM	2424	HA	LEU	X	157	29.379	35.668	65.005	0.00	0.00
ATOM	2425	CB	LEU	X	157	28.851	37.677	65.621	0.00	0.00
ATOM	2426	HB2	LEU	X	157	29.776	38.252	65.562	0.00	0.00
ATOM	2427	HB3	LEU	X	157	28.115	38.463	65.451	0.00	0.00
ATOM	2428	CG	LEU	X	157	28.700	37.264	67.100	0.00	0.00
ATOM	2429	HG	LEU	X	157	27.749	36.774	67.308	0.00	0.00
ATOM	2430	CD1	LEU	X	157	29.820	36.424	67.679	0.00	0.00
ATOM	2431	HD11	LEU	X	157	29.962	35.462	67.186	0.00	0.00
ATOM	2432	HD12	LEU	X	157	30.732	37.022	67.689	0.00	0.00
ATOM	2433	HD13	LEU	X	157	29.636	36.166	68.722	0.00	0.00
ATOM	2434	CD2	LEU	X	157	28.515	38.455	67.989	0.00	0.00
ATOM	2435	HD21	LEU	X	157	27.738	39.170	67.720	0.00	0.00
ATOM	2436	HD22	LEU	X	157	28.320	38.124	69.009	0.00	0.00
ATOM	2437	HD23	LEU	X	157	29.474	38.971	68.033	0.00	0.00
ATOM	2438	C	LEU	X	157	27.282	36.005	64.586	0.00	0.00
ATOM	2439	O	LEU	X	157	26.403	36.770	64.108	0.00	0.00
ATOM	2440	N	PRO	X	158	26.869	34.863	65.187	0.00	0.00
ATOM	2441	CD	PRO	X	158	27.684	33.851	65.899	0.00	0.00
ATOM	2442	HD2	PRO	X	158	28.127	34.360	66.755	0.00	0.00
ATOM	2443	HD3	PRO	X	158	28.561	33.444	65.394	0.00	0.00
ATOM	2444	CG	PRO	X	158	26.689	32.741	66.342	0.00	0.00
ATOM	2445	HG2	PRO	X	158	26.301	32.985	67.331	0.00	0.00
ATOM	2446	HG3	PRO	X	158	27.156	31.756	66.358	0.00	0.00
ATOM	2447	CB	PRO	X	158	25.562	32.829	65.260	0.00	0.00
ATOM	2448	HB2	PRO	X	158	24.680	32.428	65.759	0.00	0.00
ATOM	2449	HB3	PRO	X	158	25.732	32.216	64.374	0.00	0.00
ATOM	2450	CA	PRO	X	158	25.551	34.319	64.866	0.00	0.00
ATOM	2451	HA	PRO	X	158	25.402	34.254	63.789	0.00	0.00
ATOM	2452	C	PRO	X	158	24.385	35.055	65.464	0.00	0.00

ATOM	2453	O	PRO	X	158	24.579	35.633	66.548	0.00	0.00
ATOM	2454	N	GLY	X	159	23.177	34.967	64.861	0.00	0.00
ATOM	2455	H	GLY	X	159	23.123	34.364	64.053	0.00	0.00
ATOM	2456	CA	GLY	X	159	21.898	35.238	65.495	0.00	0.00
ATOM	2457	HA2	GLY	X	159	21.214	34.981	64.677	0.00	0.00
ATOM	2458	HA3	GLY	X	159	21.709	34.542	66.280	0.00	0.00
ATOM	2459	C	GLY	X	159	21.584	36.714	66.043	0.00	0.00
ATOM	2460	O	GLY	X	159	20.940	36.904	67.062	0.00	0.00
ATOM	2461	N	SER	X	160	22.173	37.710	65.381	0.00	0.00
ATOM	2462	H	SER	X	160	22.738	37.538	64.562	0.00	0.00
ATOM	2463	CA	SER	X	160	22.170	39.100	65.838	0.00	0.00
ATOM	2464	HA	SER	X	160	21.128	39.343	66.047	0.00	0.00
ATOM	2465	CB	SER	X	160	22.945	39.241	67.161	0.00	0.00
ATOM	2466	HB2	SER	X	160	22.881	40.265	67.530	0.00	0.00
ATOM	2467	HB3	SER	X	160	22.419	38.599	67.868	0.00	0.00
ATOM	2468	OG	SER	X	160	24.387	38.941	67.026	0.00	0.00
ATOM	2469	HG	SER	X	160	24.678	38.730	67.916	0.00	0.00
ATOM	2470	C	SER	X	160	22.751	40.069	64.801	0.00	0.00
ATOM	2471	O	SER	X	160	22.986	39.795	63.615	0.00	0.00
ATOM	2472	N	ARG	X	161	23.122	41.308	65.303	0.00	0.00
ATOM	2473	H	ARG	X	161	23.051	41.405	66.306	0.00	0.00
ATOM	2474	CA	ARG	X	161	23.607	42.504	64.500	0.00	0.00
ATOM	2475	HA	ARG	X	161	24.022	42.102	63.576	0.00	0.00
ATOM	2476	CB	ARG	X	161	22.433	43.546	64.262	0.00	0.00
ATOM	2477	HB2	ARG	X	161	22.268	44.000	65.239	0.00	0.00
ATOM	2478	HB3	ARG	X	161	22.759	44.234	63.481	0.00	0.00
ATOM	2479	CG	ARG	X	161	21.074	42.963	63.760	0.00	0.00
ATOM	2480	HG2	ARG	X	161	21.180	42.845	62.681	0.00	0.00
ATOM	2481	HG3	ARG	X	161	20.808	42.059	64.307	0.00	0.00
ATOM	2482	CD	ARG	X	161	20.013	43.995	64.083	0.00	0.00
ATOM	2483	HD2	ARG	X	161	19.919	44.054	65.168	0.00	0.00
ATOM	2484	HD3	ARG	X	161	20.313	44.940	63.631	0.00	0.00
ATOM	2485	NE	ARG	X	161	18.728	43.602	63.511	0.00	0.00
ATOM	2486	HE	ARG	X	161	18.790	42.748	62.975	0.00	0.00
ATOM	2487	CZ	ARG	X	161	17.573	44.025	63.898	0.00	0.00
ATOM	2488	NH1	ARG	X	161	17.551	45.226	64.455	0.00	0.00
ATOM	2489	HH11	ARG	X	161	18.392	45.785	64.449	0.00	0.00
ATOM	2490	HH12	ARG	X	161	16.673	45.646	64.724	0.00	0.00
ATOM	2491	NH2	ARG	X	161	16.486	43.300	63.701	0.00	0.00
ATOM	2492	HH21	ARG	X	161	16.404	42.349	63.372	0.00	0.00
ATOM	2493	HH22	ARG	X	161	15.601	43.737	63.914	0.00	0.00
ATOM	2494	C	ARG	X	161	24.699	43.343	65.239	0.00	0.00
ATOM	2495	O	ARG	X	161	24.929	44.495	64.950	0.00	0.00
ATOM	2496	N	GLU	X	162	25.309	42.705	66.199	0.00	0.00
ATOM	2497	H	GLU	X	162	25.038	41.746	66.364	0.00	0.00
ATOM	2498	CA	GLU	X	162	26.527	43.299	66.735	0.00	0.00
ATOM	2499	HA	GLU	X	162	26.398	44.372	66.878	0.00	0.00
ATOM	2500	CB	GLU	X	162	26.987	42.561	68.033	0.00	0.00
ATOM	2501	HB2	GLU	X	162	27.277	41.541	67.781	0.00	0.00
ATOM	2502	HB3	GLU	X	162	27.869	43.079	68.410	0.00	0.00
ATOM	2503	CG	GLU	X	162	25.830	42.551	69.040	0.00	0.00
ATOM	2504	HG2	GLU	X	162	25.051	41.914	68.621	0.00	0.00
ATOM	2505	HG3	GLU	X	162	26.201	42.013	69.912	0.00	0.00
ATOM	2506	CD	GLU	X	162	25.392	43.996	69.349	0.00	0.00
ATOM	2507	OE1	GLU	X	162	24.242	44.331	69.152	0.00	0.00
ATOM	2508	OE2	GLU	X	162	26.345	44.809	69.614	0.00	0.00
ATOM	2509	C	GLU	X	162	27.623	43.245	65.690	0.00	0.00
ATOM	2510	O	GLU	X	162	28.190	44.274	65.335	0.00	0.00
ATOM	2511	N	ALA	X	163	28.020	42.128	65.080	0.00	0.00
ATOM	2512	H	ALA	X	163	27.412	41.353	65.307	0.00	0.00
ATOM	2513	CA	ALA	X	163	28.737	42.031	63.771	0.00	0.00
ATOM	2514	HA	ALA	X	163	28.897	43.036	63.380	0.00	0.00
ATOM	2515	CB	ALA	X	163	30.128	41.496	64.123	0.00	0.00
ATOM	2516	HB1	ALA	X	163	29.907	40.620	64.732	0.00	0.00
ATOM	2517	HB2	ALA	X	163	30.680	41.291	63.205	0.00	0.00
ATOM	2518	HB3	ALA	X	163	30.675	42.300	64.614	0.00	0.00
ATOM	2519	C	ALA	X	163	27.913	41.153	62.862	0.00	0.00
ATOM	2520	O	ALA	X	163	28.017	39.916	62.857	0.00	0.00
ATOM	2521	N	PRO	X	164	27.061	41.797	62.004	0.00	0.00
ATOM	2522	CD	PRO	X	164	26.794	43.252	61.922	0.00	0.00

ATOM	2523	HD2	PRO	X	164	27.750	43.744	61.740	0.00	0.00
ATOM	2524	HD3	PRO	X	164	26.174	43.637	62.731	0.00	0.00
ATOM	2525	CG	PRO	X	164	25.931	43.378	60.672	0.00	0.00
ATOM	2526	HG2	PRO	X	164	26.548	43.559	59.792	0.00	0.00
ATOM	2527	HG3	PRO	X	164	25.296	44.252	60.810	0.00	0.00
ATOM	2528	CB	PRO	X	164	25.285	42.042	60.558	0.00	0.00
ATOM	2529	HB2	PRO	X	164	24.959	41.828	59.541	0.00	0.00
ATOM	2530	HB3	PRO	X	164	24.437	42.001	61.242	0.00	0.00
ATOM	2531	CA	PRO	X	164	26.243	41.024	61.050	0.00	0.00
ATOM	2532	HA	PRO	X	164	25.734	40.164	61.485	0.00	0.00
ATOM	2533	C	PRO	X	164	26.946	40.392	59.861	0.00	0.00
ATOM	2534	O	PRO	X	164	26.214	39.774	59.069	0.00	0.00
ATOM	2535	N	GLY	X	165	28.295	40.520	59.681	0.00	0.00
ATOM	2536	H	GLY	X	165	28.818	40.942	60.435	0.00	0.00
ATOM	2537	CA	GLY	X	165	29.042	39.907	58.594	0.00	0.00
ATOM	2538	HA2	GLY	X	165	30.055	39.736	58.938	0.00	0.00
ATOM	2539	HA3	GLY	X	165	28.640	38.907	58.348	0.00	0.00
ATOM	2540	C	GLY	X	165	29.214	40.808	57.361	0.00	0.00
ATOM	2541	O	GLY	X	165	28.428	41.677	57.078	0.00	0.00
ATOM	2542	N	ASN	X	166	30.192	40.536	56.547	0.00	0.00
ATOM	2543	H	ASN	X	166	30.771	39.765	56.850	0.00	0.00
ATOM	2544	CA	ASN	X	166	30.250	40.755	55.099	0.00	0.00
ATOM	2545	HA	ASN	X	166	31.123	40.263	54.671	0.00	0.00
ATOM	2546	CB	ASN	X	166	28.956	40.205	54.308	0.00	0.00
ATOM	2547	HB2	ASN	X	166	28.017	40.574	54.720	0.00	0.00
ATOM	2548	HB3	ASN	X	166	29.078	40.476	53.259	0.00	0.00
ATOM	2549	CG	ASN	X	166	28.876	38.698	54.402	0.00	0.00
ATOM	2550	OD1	ASN	X	166	29.907	38.106	54.215	0.00	0.00
ATOM	2551	ND2	ASN	X	166	27.721	38.136	54.671	0.00	0.00
ATOM	2552	HD21	ASN	X	166	27.544	37.164	54.461	0.00	0.00
ATOM	2553	HD22	ASN	X	166	26.859	38.659	54.716	0.00	0.00
ATOM	2554	C	ASN	X	166	30.472	42.236	54.752	0.00	0.00
ATOM	2555	O	ASN	X	166	30.561	42.656	53.594	0.00	0.00
ATOM	2556	N	VAL	X	167	30.499	43.138	55.756	0.00	0.00
ATOM	2557	H	VAL	X	167	30.441	42.793	56.703	0.00	0.00
ATOM	2558	CA	VAL	X	167	30.576	44.588	55.563	0.00	0.00
ATOM	2559	HA	VAL	X	167	29.569	44.791	55.198	0.00	0.00
ATOM	2560	CB	VAL	X	167	30.722	45.296	56.877	0.00	0.00
ATOM	2561	HB	VAL	X	167	30.617	46.351	56.624	0.00	0.00
ATOM	2562	CG1	VAL	X	167	29.660	44.892	57.895	0.00	0.00
ATOM	2563	HG11	VAL	X	167	29.721	45.409	58.853	0.00	0.00
ATOM	2564	HG12	VAL	X	167	28.636	44.847	57.526	0.00	0.00
ATOM	2565	HG13	VAL	X	167	29.808	43.825	58.067	0.00	0.00
ATOM	2566	CG2	VAL	X	167	32.157	45.232	57.420	0.00	0.00
ATOM	2567	HG21	VAL	X	167	32.270	45.972	58.212	0.00	0.00
ATOM	2568	HG22	VAL	X	167	32.311	44.213	57.777	0.00	0.00
ATOM	2569	HG23	VAL	X	167	32.866	45.485	56.631	0.00	0.00
ATOM	2570	C	VAL	X	167	31.677	44.965	54.595	0.00	0.00
ATOM	2571	O	VAL	X	167	31.500	46.015	53.971	0.00	0.00
ATOM	2572	N	GLY	X	168	32.709	44.151	54.369	0.00	0.00
ATOM	2573	H	GLY	X	168	32.729	43.242	54.808	0.00	0.00
ATOM	2574	CA	GLY	X	168	33.888	44.509	53.467	0.00	0.00
ATOM	2575	HA2	GLY	X	168	34.251	45.566	53.675	0.00	0.00
ATOM	2576	HA3	GLY	X	168	34.742	43.841	53.527	0.00	0.00
ATOM	2577	C	GLY	X	168	33.529	44.430	51.986	0.00	0.00
ATOM	2578	O	GLY	X	168	34.281	44.943	51.061	0.00	0.00
ATOM	2579	N	LEU	X	169	32.406	43.690	51.668	0.00	0.00
ATOM	2580	H	LEU	X	169	32.104	43.117	52.443	0.00	0.00
ATOM	2581	CA	LEU	X	169	31.648	43.765	50.435	0.00	0.00
ATOM	2582	HA	LEU	X	169	32.345	44.075	49.656	0.00	0.00
ATOM	2583	CB	LEU	X	169	30.954	42.461	50.056	0.00	0.00
ATOM	2584	HB2	LEU	X	169	30.340	42.241	50.930	0.00	0.00
ATOM	2585	HB3	LEU	X	169	30.357	42.669	49.169	0.00	0.00
ATOM	2586	CG	LEU	X	169	31.796	41.215	49.770	0.00	0.00
ATOM	2587	HG	LEU	X	169	32.346	40.737	50.581	0.00	0.00
ATOM	2588	CD1	LEU	X	169	30.763	40.093	49.487	0.00	0.00
ATOM	2589	HD11	LEU	X	169	31.205	39.103	49.385	0.00	0.00
ATOM	2590	HD12	LEU	X	169	30.077	39.968	50.326	0.00	0.00
ATOM	2591	HD13	LEU	X	169	30.181	40.382	48.612	0.00	0.00
ATOM	2592	CD2	LEU	X	169	32.715	41.500	48.591	0.00	0.00

ATOM	2593	HD21	LEU	X	169	32.190	41.905	47.726	0.00	0.00
ATOM	2594	HD22	LEU	X	169	33.434	42.286	48.824	0.00	0.00
ATOM	2595	HD23	LEU	X	169	33.133	40.548	48.264	0.00	0.00
ATOM	2596	C	LEU	X	169	30.584	44.939	50.454	0.00	0.00
ATOM	2597	O	LEU	X	169	30.271	45.457	49.385	0.00	0.00
ATOM	2598	N	LEU	X	170	30.031	45.320	51.584	0.00	0.00
ATOM	2599	H	LEU	X	170	30.331	45.076	52.517	0.00	0.00
ATOM	2600	CA	LEU	X	170	29.023	46.432	51.633	0.00	0.00
ATOM	2601	HA	LEU	X	170	28.203	46.275	50.933	0.00	0.00
ATOM	2602	CB	LEU	X	170	28.249	46.483	52.965	0.00	0.00
ATOM	2603	HB2	LEU	X	170	28.996	46.565	53.754	0.00	0.00
ATOM	2604	HB3	LEU	X	170	27.583	47.344	52.906	0.00	0.00
ATOM	2605	CG	LEU	X	170	27.401	45.156	53.288	0.00	0.00
ATOM	2606	HG	LEU	X	170	27.960	44.230	53.423	0.00	0.00
ATOM	2607	CD1	LEU	X	170	26.856	45.304	54.716	0.00	0.00
ATOM	2608	HD11	LEU	X	170	26.353	46.253	54.901	0.00	0.00
ATOM	2609	HD12	LEU	X	170	26.201	44.450	54.887	0.00	0.00
ATOM	2610	HD13	LEU	X	170	27.694	45.234	55.410	0.00	0.00
ATOM	2611	CD2	LEU	X	170	26.366	44.757	52.244	0.00	0.00
ATOM	2612	HD21	LEU	X	170	25.701	45.598	52.044	0.00	0.00
ATOM	2613	HD22	LEU	X	170	27.012	44.324	51.480	0.00	0.00
ATOM	2614	HD23	LEU	X	170	25.719	43.973	52.638	0.00	0.00
ATOM	2615	C	LEU	X	170	29.720	47.758	51.331	0.00	0.00
ATOM	2616	O	LEU	X	170	29.079	48.656	50.801	0.00	0.00
ATOM	2617	N	ASP	X	171	30.961	47.889	51.636	0.00	0.00
ATOM	2618	H	ASP	X	171	31.308	47.245	52.332	0.00	0.00
ATOM	2619	CA	ASP	X	171	31.912	48.983	51.170	0.00	0.00
ATOM	2620	HA	ASP	X	171	31.591	49.899	51.665	0.00	0.00
ATOM	2621	CB	ASP	X	171	33.366	48.665	51.661	0.00	0.00
ATOM	2622	HB2	ASP	X	171	33.687	47.754	51.156	0.00	0.00
ATOM	2623	HB3	ASP	X	171	34.072	49.454	51.402	0.00	0.00
ATOM	2624	CG	ASP	X	171	33.557	48.580	53.143	0.00	0.00
ATOM	2625	OD1	ASP	X	171	32.650	49.084	53.830	0.00	0.00
ATOM	2626	OD2	ASP	X	171	34.535	47.949	53.593	0.00	0.00
ATOM	2627	C	ASP	X	171	31.886	49.101	49.646	0.00	0.00
ATOM	2628	O	ASP	X	171	31.588	50.169	49.151	0.00	0.00
ATOM	2629	N	GLN	X	172	32.138	48.006	48.900	0.00	0.00
ATOM	2630	H	GLN	X	172	32.247	47.136	49.401	0.00	0.00
ATOM	2631	CA	GLN	X	172	31.977	47.971	47.484	0.00	0.00
ATOM	2632	HA	GLN	X	172	32.656	48.701	47.045	0.00	0.00
ATOM	2633	CB	GLN	X	172	32.477	46.602	47.011	0.00	0.00
ATOM	2634	HB2	GLN	X	172	31.914	45.820	47.520	0.00	0.00
ATOM	2635	HB3	GLN	X	172	32.288	46.536	45.940	0.00	0.00
ATOM	2636	CG	GLN	X	172	33.941	46.198	47.370	0.00	0.00
ATOM	2637	HG2	GLN	X	172	34.628	46.872	46.859	0.00	0.00
ATOM	2638	HG3	GLN	X	172	34.162	46.454	48.406	0.00	0.00
ATOM	2639	CD	GLN	X	172	34.245	44.825	46.890	0.00	0.00
ATOM	2640	OE1	GLN	X	172	33.371	44.044	46.587	0.00	0.00
ATOM	2641	NE2	GLN	X	172	35.473	44.381	46.972	0.00	0.00
ATOM	2642	HE21	GLN	X	172	35.656	43.450	46.626	0.00	0.00
ATOM	2643	HE22	GLN	X	172	36.174	45.047	47.264	0.00	0.00
ATOM	2644	C	GLN	X	172	30.565	48.343	46.936	0.00	0.00
ATOM	2645	O	GLN	X	172	30.624	49.225	46.081	0.00	0.00
ATOM	2646	N	ARG	X	173	29.438	47.758	47.442	0.00	0.00
ATOM	2647	H	ARG	X	173	29.493	47.077	48.187	0.00	0.00
ATOM	2648	CA	ARG	X	173	28.004	48.163	47.039	0.00	0.00
ATOM	2649	HA	ARG	X	173	27.855	47.880	45.997	0.00	0.00
ATOM	2650	CB	ARG	X	173	27.010	47.473	47.902	0.00	0.00
ATOM	2651	HB2	ARG	X	173	27.259	46.415	47.983	0.00	0.00
ATOM	2652	HB3	ARG	X	173	27.059	47.932	48.890	0.00	0.00
ATOM	2653	CG	ARG	X	173	25.478	47.626	47.457	0.00	0.00
ATOM	2654	HG2	ARG	X	173	25.264	48.694	47.499	0.00	0.00
ATOM	2655	HG3	ARG	X	173	25.550	47.219	46.448	0.00	0.00
ATOM	2656	CD	ARG	X	173	24.415	47.025	48.441	0.00	0.00
ATOM	2657	HD2	ARG	X	173	24.606	47.265	49.487	0.00	0.00
ATOM	2658	HD3	ARG	X	173	23.403	47.292	48.137	0.00	0.00
ATOM	2659	NE	ARG	X	173	24.504	45.622	48.214	0.00	0.00
ATOM	2660	HE	ARG	X	173	24.916	45.267	47.363	0.00	0.00
ATOM	2661	CZ	ARG	X	173	24.205	44.772	49.180	0.00	0.00
ATOM	2662	NH1	ARG	X	173	23.478	45.080	50.238	0.00	0.00

ATOM	2663	HH11	ARG	X	173	23.041	45.991	50.233	0.00	0.00
ATOM	2664	HH12	ARG	X	173	23.298	44.390	50.954	0.00	0.00
ATOM	2665	NH2	ARG	X	173	24.614	43.468	49.076	0.00	0.00
ATOM	2666	HH21	ARG	X	173	24.773	43.136	48.136	0.00	0.00
ATOM	2667	HH22	ARG	X	173	24.245	42.754	49.688	0.00	0.00
ATOM	2668	C	ARG	X	173	27.842	49.695	47.196	0.00	0.00
ATOM	2669	O	ARG	X	173	27.132	50.336	46.372	0.00	0.00
ATOM	2670	N	LEU	X	174	28.305	50.334	48.282	0.00	0.00
ATOM	2671	H	LEU	X	174	28.735	49.719	48.958	0.00	0.00
ATOM	2672	CA	LEU	X	174	28.235	51.773	48.522	0.00	0.00
ATOM	2673	HA	LEU	X	174	27.202	52.116	48.472	0.00	0.00
ATOM	2674	CB	LEU	X	174	28.800	52.190	49.873	0.00	0.00
ATOM	2675	HB2	LEU	X	174	28.406	51.507	50.626	0.00	0.00
ATOM	2676	HB3	LEU	X	174	29.868	52.000	49.772	0.00	0.00
ATOM	2677	CG	LEU	X	174	28.577	53.555	50.382	0.00	0.00
ATOM	2678	HG	LEU	X	174	28.849	54.260	49.597	0.00	0.00
ATOM	2679	CD1	LEU	X	174	27.136	53.787	50.601	0.00	0.00
ATOM	2680	HD11	LEU	X	174	26.632	53.927	49.644	0.00	0.00
ATOM	2681	HD12	LEU	X	174	26.821	52.865	51.089	0.00	0.00
ATOM	2682	HD13	LEU	X	174	26.995	54.650	51.252	0.00	0.00
ATOM	2683	CD2	LEU	X	174	29.380	53.840	51.700	0.00	0.00
ATOM	2684	HD21	LEU	X	174	28.807	53.529	52.574	0.00	0.00
ATOM	2685	HD22	LEU	X	174	30.393	53.441	51.760	0.00	0.00
ATOM	2686	HD23	LEU	X	174	29.378	54.928	51.630	0.00	0.00
ATOM	2687	C	LEU	X	174	28.966	52.548	47.425	0.00	0.00
ATOM	2688	O	LEU	X	174	28.317	53.395	46.786	0.00	0.00
ATOM	2689	N	ALA	X	175	30.281	52.299	47.141	0.00	0.00
ATOM	2690	H	ALA	X	175	30.736	51.569	47.671	0.00	0.00
ATOM	2691	CA	ALA	X	175	30.907	52.862	46.007	0.00	0.00
ATOM	2692	HA	ALA	X	175	30.974	53.941	46.149	0.00	0.00
ATOM	2693	CB	ALA	X	175	32.389	52.268	45.890	0.00	0.00
ATOM	2694	HB1	ALA	X	175	32.941	52.674	45.042	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.032	52.447	46.751	0.00	0.00
ATOM	2696	HB3	ALA	X	175	32.405	51.182	45.796	0.00	0.00
ATOM	2697	C	ALA	X	175	30.213	52.564	44.661	0.00	0.00
ATOM	2698	O	ALA	X	175	29.989	53.481	43.876	0.00	0.00
ATOM	2699	N	LEU	X	176	29.698	51.340	44.431	0.00	0.00
ATOM	2700	H	LEU	X	176	29.883	50.639	45.135	0.00	0.00
ATOM	2701	CA	LEU	X	176	28.805	51.004	43.263	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.337	51.185	42.329	0.00	0.00
ATOM	2703	CB	LEU	X	176	28.396	49.541	43.239	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.093	49.176	44.221	0.00	0.00
ATOM	2705	HB3	LEU	X	176	27.632	49.510	42.462	0.00	0.00
ATOM	2706	CG	LEU	X	176	29.498	48.497	42.787	0.00	0.00
ATOM	2707	HG	LEU	X	176	30.324	48.635	43.485	0.00	0.00
ATOM	2708	CD1	LEU	X	176	28.863	47.141	42.934	0.00	0.00
ATOM	2709	HD11	LEU	X	176	27.838	47.150	42.561	0.00	0.00
ATOM	2710	HD12	LEU	X	176	29.476	46.406	42.412	0.00	0.00
ATOM	2711	HD13	LEU	X	176	28.826	46.775	43.960	0.00	0.00
ATOM	2712	CD2	LEU	X	176	30.137	48.652	41.387	0.00	0.00
ATOM	2713	HD21	LEU	X	176	29.484	48.561	40.519	0.00	0.00
ATOM	2714	HD22	LEU	X	176	30.572	49.647	41.298	0.00	0.00
ATOM	2715	HD23	LEU	X	176	30.969	47.952	41.466	0.00	0.00
ATOM	2716	C	LEU	X	176	27.559	51.979	43.120	0.00	0.00
ATOM	2717	O	LEU	X	176	27.232	52.279	42.020	0.00	0.00
ATOM	2718	N	GLN	X	177	26.928	52.345	44.241	0.00	0.00
ATOM	2719	H	GLN	X	177	27.278	51.962	45.108	0.00	0.00
ATOM	2720	CA	GLN	X	177	25.835	53.329	44.193	0.00	0.00
ATOM	2721	HA	GLN	X	177	25.159	53.111	43.366	0.00	0.00
ATOM	2722	CB	GLN	X	177	25.016	53.268	45.471	0.00	0.00
ATOM	2723	HB2	GLN	X	177	24.687	52.234	45.583	0.00	0.00
ATOM	2724	HB3	GLN	X	177	25.646	53.386	46.352	0.00	0.00
ATOM	2725	CG	GLN	X	177	23.768	54.214	45.438	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.114	55.212	45.708	0.00	0.00
ATOM	2727	HG3	GLN	X	177	23.268	54.161	44.471	0.00	0.00
ATOM	2728	CD	GLN	X	177	22.668	53.958	46.446	0.00	0.00
ATOM	2729	OE1	GLN	X	177	22.574	52.915	47.095	0.00	0.00
ATOM	2730	NE2	GLN	X	177	21.689	54.825	46.588	0.00	0.00
ATOM	2731	HE21	GLN	X	177	20.853	54.406	46.969	0.00	0.00
ATOM	2732	HE22	GLN	X	177	21.625	55.439	45.788	0.00	0.00

ATOM	2733	C	GLN	X	177	26.377	54.766	43.915	0.00	0.00
ATOM	2734	O	GLN	X	177	25.677	55.543	43.245	0.00	0.00
ATOM	2735	N	TRP	X	178	27.606	55.150	44.482	0.00	0.00
ATOM	2736	H	TRP	X	178	28.095	54.473	45.050	0.00	0.00
ATOM	2737	CA	TRP	X	178	28.347	56.435	44.207	0.00	0.00
ATOM	2738	HA	TRP	X	178	27.745	57.294	44.503	0.00	0.00
ATOM	2739	CB	TRP	X	178	29.626	56.426	45.039	0.00	0.00
ATOM	2740	HB2	TRP	X	178	29.344	56.214	46.071	0.00	0.00
ATOM	2741	HB3	TRP	X	178	30.303	55.660	44.660	0.00	0.00
ATOM	2742	CG	TRP	X	178	30.361	57.745	45.111	0.00	0.00
ATOM	2743	CD1	TRP	X	178	30.194	58.717	46.034	0.00	0.00
ATOM	2744	HD1	TRP	X	178	29.573	58.630	46.914	0.00	0.00
ATOM	2745	NE1	TRP	X	178	30.924	59.836	45.723	0.00	0.00
ATOM	2746	HE1	TRP	X	178	30.951	60.679	46.279	0.00	0.00
ATOM	2747	CE2	TRP	X	178	31.620	59.678	44.529	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	32.346	60.561	43.731	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	32.341	61.606	44.005	0.00	0.00
ATOM	2750	CH2	TRP	X	178	32.740	60.071	42.459	0.00	0.00
ATOM	2751	HH2	TRP	X	178	33.142	60.836	41.811	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	32.517	58.738	42.036	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	32.940	58.467	41.080	0.00	0.00
ATOM	2754	CE3	TRP	X	178	31.793	57.920	42.873	0.00	0.00
ATOM	2755	HE3	TRP	X	178	31.620	56.893	42.587	0.00	0.00
ATOM	2756	CD2	TRP	X	178	31.251	58.362	44.128	0.00	0.00
ATOM	2757	C	TRP	X	178	28.641	56.580	42.712	0.00	0.00
ATOM	2758	O	TRP	X	178	28.340	57.606	42.126	0.00	0.00
ATOM	2759	N	VAL	X	179	29.070	55.461	42.035	0.00	0.00
ATOM	2760	H	VAL	X	179	29.207	54.616	42.571	0.00	0.00
ATOM	2761	CA	VAL	X	179	29.240	55.460	40.580	0.00	0.00
ATOM	2762	HA	VAL	X	179	29.901	56.255	40.234	0.00	0.00
ATOM	2763	CB	VAL	X	179	29.801	54.057	40.026	0.00	0.00
ATOM	2764	HB	VAL	X	179	29.104	53.288	40.359	0.00	0.00
ATOM	2765	CG1	VAL	X	179	29.816	54.013	38.556	0.00	0.00
ATOM	2766	HG11	VAL	X	179	30.184	53.121	38.050	0.00	0.00
ATOM	2767	HG12	VAL	X	179	28.776	54.075	38.233	0.00	0.00
ATOM	2768	HG13	VAL	X	179	30.253	54.933	38.168	0.00	0.00
ATOM	2769	CG2	VAL	X	179	31.200	53.663	40.572	0.00	0.00
ATOM	2770	HG21	VAL	X	179	31.789	54.581	40.571	0.00	0.00
ATOM	2771	HG22	VAL	X	179	31.060	53.234	41.564	0.00	0.00
ATOM	2772	HG23	VAL	X	179	31.544	52.802	40.000	0.00	0.00
ATOM	2773	C	VAL	X	179	27.962	55.776	39.878	0.00	0.00
ATOM	2774	O	VAL	X	179	27.948	56.662	39.026	0.00	0.00
ATOM	2775	N	GLN	X	180	26.817	55.188	40.242	0.00	0.00
ATOM	2776	H	GLN	X	180	26.818	54.394	40.866	0.00	0.00
ATOM	2777	CA	GLN	X	180	25.480	55.421	39.745	0.00	0.00
ATOM	2778	HA	GLN	X	180	25.483	55.443	38.655	0.00	0.00
ATOM	2779	CB	GLN	X	180	24.488	54.267	40.107	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.481	54.111	41.186	0.00	0.00
ATOM	2781	HB3	GLN	X	180	23.445	54.493	39.885	0.00	0.00
ATOM	2782	CG	GLN	X	180	24.644	52.972	39.347	0.00	0.00
ATOM	2783	HG2	GLN	X	180	25.699	52.701	39.320	0.00	0.00
ATOM	2784	HG3	GLN	X	180	24.098	52.131	39.776	0.00	0.00
ATOM	2785	CD	GLN	X	180	24.192	53.263	37.894	0.00	0.00
ATOM	2786	OE1	GLN	X	180	23.430	54.140	37.560	0.00	0.00
ATOM	2787	NE2	GLN	X	180	24.678	52.480	36.969	0.00	0.00
ATOM	2788	HE21	GLN	X	180	24.157	52.669	36.125	0.00	0.00
ATOM	2789	HE22	GLN	X	180	25.117	51.613	37.243	0.00	0.00
ATOM	2790	C	GLN	X	180	24.930	56.782	39.967	0.00	0.00
ATOM	2791	O	GLN	X	180	23.854	57.077	39.407	0.00	0.00
ATOM	2792	N	GLU	X	181	25.478	57.673	40.858	0.00	0.00
ATOM	2793	H	GLU	X	181	26.359	57.437	41.293	0.00	0.00
ATOM	2794	CA	GLU	X	181	25.106	59.112	40.987	0.00	0.00
ATOM	2795	HA	GLU	X	181	24.111	59.153	40.545	0.00	0.00
ATOM	2796	CB	GLU	X	181	25.040	59.313	42.497	0.00	0.00
ATOM	2797	HB2	GLU	X	181	24.326	58.657	42.996	0.00	0.00
ATOM	2798	HB3	GLU	X	181	26.037	59.246	42.930	0.00	0.00
ATOM	2799	CG	GLU	X	181	24.596	60.776	42.915	0.00	0.00
ATOM	2800	HG2	GLU	X	181	24.742	60.964	43.978	0.00	0.00
ATOM	2801	HG3	GLU	X	181	25.216	61.533	42.435	0.00	0.00
ATOM	2802	CD	GLU	X	181	23.183	61.012	42.657	0.00	0.00

ATOM	2803	OE1	GLU	X	181	22.769	61.509	41.598	0.00	0.00
ATOM	2804	OE2	GLU	X	181	22.340	60.668	43.506	0.00	0.00
ATOM	2805	C	GLU	X	181	26.076	60.043	40.373	0.00	0.00
ATOM	2806	O	GLU	X	181	25.672	61.067	39.906	0.00	0.00
ATOM	2807	N	ASN	X	182	27.381	59.825	40.460	0.00	0.00
ATOM	2808	H	ASN	X	182	27.633	58.922	40.835	0.00	0.00
ATOM	2809	CA	ASN	X	182	28.416	60.808	40.164	0.00	0.00
ATOM	2810	HA	ASN	X	182	28.026	61.825	40.122	0.00	0.00
ATOM	2811	CB	ASN	X	182	29.284	60.855	41.434	0.00	0.00
ATOM	2812	HB2	ASN	X	182	29.902	59.983	41.651	0.00	0.00
ATOM	2813	HB3	ASN	X	182	30.011	61.664	41.362	0.00	0.00
ATOM	2814	CG	ASN	X	182	28.403	61.258	42.633	0.00	0.00
ATOM	2815	OD1	ASN	X	182	27.466	61.990	42.575	0.00	0.00
ATOM	2816	ND2	ASN	X	182	28.565	60.531	43.733	0.00	0.00
ATOM	2817	HD21	ASN	X	182	28.038	60.814	44.547	0.00	0.00
ATOM	2818	HD22	ASN	X	182	29.250	59.800	43.606	0.00	0.00
ATOM	2819	C	ASN	X	182	29.258	60.651	38.881	0.00	0.00
ATOM	2820	O	ASN	X	182	29.855	61.674	38.517	0.00	0.00
ATOM	2821	N	VAL	X	183	29.272	59.503	38.181	0.00	0.00
ATOM	2822	H	VAL	X	183	28.577	58.850	38.515	0.00	0.00
ATOM	2823	CA	VAL	X	183	30.197	59.134	37.091	0.00	0.00
ATOM	2824	HA	VAL	X	183	31.222	59.334	37.401	0.00	0.00
ATOM	2825	CB	VAL	X	183	30.135	57.602	36.847	0.00	0.00
ATOM	2826	HB	VAL	X	183	30.092	57.231	37.871	0.00	0.00
ATOM	2827	CG1	VAL	X	183	28.954	57.116	36.016	0.00	0.00
ATOM	2828	HG11	VAL	X	183	29.254	57.289	34.983	0.00	0.00
ATOM	2829	HG12	VAL	X	183	28.875	56.036	36.141	0.00	0.00
ATOM	2830	HG13	VAL	X	183	28.019	57.561	36.357	0.00	0.00
ATOM	2831	CG2	VAL	X	183	31.456	57.098	36.254	0.00	0.00
ATOM	2832	HG21	VAL	X	183	31.516	56.011	36.311	0.00	0.00
ATOM	2833	HG22	VAL	X	183	31.808	57.519	35.313	0.00	0.00
ATOM	2834	HG23	VAL	X	183	32.282	57.330	36.927	0.00	0.00
ATOM	2835	C	VAL	X	183	29.996	59.956	35.850	0.00	0.00
ATOM	2836	O	VAL	X	183	30.873	60.191	34.987	0.00	0.00
ATOM	2837	N	ALA	X	184	28.817	60.528	35.687	0.00	0.00
ATOM	2838	H	ALA	X	184	28.026	60.238	36.244	0.00	0.00
ATOM	2839	CA	ALA	X	184	28.494	61.383	34.505	0.00	0.00
ATOM	2840	HA	ALA	X	184	28.635	60.694	33.673	0.00	0.00
ATOM	2841	CB	ALA	X	184	26.977	61.585	34.534	0.00	0.00
ATOM	2842	HB1	ALA	X	184	26.572	61.885	33.568	0.00	0.00
ATOM	2843	HB2	ALA	X	184	26.419	60.664	34.704	0.00	0.00
ATOM	2844	HB3	ALA	X	184	26.655	62.362	35.227	0.00	0.00
ATOM	2845	C	ALA	X	184	29.378	62.610	34.309	0.00	0.00
ATOM	2846	O	ALA	X	184	29.502	63.121	33.216	0.00	0.00
ATOM	2847	N	ALA	X	185	29.808	63.108	35.482	0.00	0.00
ATOM	2848	H	ALA	X	185	29.529	62.634	36.330	0.00	0.00
ATOM	2849	CA	ALA	X	185	30.511	64.365	35.649	0.00	0.00
ATOM	2850	HA	ALA	X	185	30.065	65.174	35.069	0.00	0.00
ATOM	2851	CB	ALA	X	185	30.621	64.525	37.175	0.00	0.00
ATOM	2852	HB1	ALA	X	185	31.220	63.732	37.623	0.00	0.00
ATOM	2853	HB2	ALA	X	185	31.086	65.471	37.451	0.00	0.00
ATOM	2854	HB3	ALA	X	185	29.642	64.657	37.636	0.00	0.00
ATOM	2855	C	ALA	X	185	31.985	64.235	35.219	0.00	0.00
ATOM	2856	O	ALA	X	185	32.542	65.130	34.490	0.00	0.00
ATOM	2857	N	PHE	X	186	32.536	63.002	35.261	0.00	0.00
ATOM	2858	H	PHE	X	186	31.934	62.265	35.600	0.00	0.00
ATOM	2859	CA	PHE	X	186	33.786	62.537	34.668	0.00	0.00
ATOM	2860	HA	PHE	X	186	34.575	63.286	34.725	0.00	0.00
ATOM	2861	CB	PHE	X	186	34.355	61.308	35.403	0.00	0.00
ATOM	2862	HB2	PHE	X	186	33.626	60.502	35.324	0.00	0.00
ATOM	2863	HB3	PHE	X	186	35.193	60.790	34.936	0.00	0.00
ATOM	2864	CG	PHE	X	186	34.562	61.620	36.872	0.00	0.00
ATOM	2865	CD1	PHE	X	186	33.633	61.243	37.814	0.00	0.00
ATOM	2866	HD1	PHE	X	186	32.695	60.797	37.518	0.00	0.00
ATOM	2867	CE1	PHE	X	186	33.725	61.721	39.126	0.00	0.00
ATOM	2868	HE1	PHE	X	186	32.909	61.652	39.830	0.00	0.00
ATOM	2869	CZ	PHE	X	186	34.915	62.355	39.500	0.00	0.00
ATOM	2870	HZ	PHE	X	186	35.090	62.506	40.555	0.00	0.00
ATOM	2871	CE2	PHE	X	186	35.834	62.763	38.536	0.00	0.00
ATOM	2872	HE2	PHE	X	186	36.735	63.307	38.776	0.00	0.00

ATOM	2873	CD2	PHE	X	186	35.670	62.373	37.237	0.00	0.00
ATOM	2874	HD2	PHE	X	186	36.350	62.849	36.547	0.00	0.00
ATOM	2875	C	PHE	X	186	33.711	62.335	33.064	0.00	0.00
ATOM	2876	O	PHE	X	186	34.720	62.736	32.410	0.00	0.00
ATOM	2877	N	GLY	X	187	32.655	61.721	32.536	0.00	0.00
ATOM	2878	H	GLY	X	187	31.893	61.607	33.188	0.00	0.00
ATOM	2879	CA	GLY	X	187	32.397	61.157	31.163	0.00	0.00
ATOM	2880	HA2	GLY	X	187	31.545	61.660	30.676	0.00	0.00
ATOM	2881	HA3	GLY	X	187	33.254	61.484	30.542	0.00	0.00
ATOM	2882	C	GLY	X	187	32.225	59.622	31.075	0.00	0.00
ATOM	2883	O	GLY	X	187	32.328	59.014	29.991	0.00	0.00
ATOM	2884	N	GLY	X	188	32.027	58.974	32.198	0.00	0.00
ATOM	2885	H	GLY	X	188	31.886	59.480	33.061	0.00	0.00
ATOM	2886	CA	GLY	X	188	31.605	57.562	32.298	0.00	0.00
ATOM	2887	HA2	GLY	X	188	31.951	56.883	31.533	0.00	0.00
ATOM	2888	HA3	GLY	X	188	31.976	57.200	33.260	0.00	0.00
ATOM	2889	C	GLY	X	188	30.074	57.466	32.128	0.00	0.00
ATOM	2890	O	GLY	X	188	29.402	58.442	32.431	0.00	0.00
ATOM	2891	N	ASP	X	189	29.563	56.344	31.726	0.00	0.00
ATOM	2892	H	ASP	X	189	30.214	55.709	31.287	0.00	0.00
ATOM	2893	CA	ASP	X	189	28.127	56.210	31.332	0.00	0.00
ATOM	2894	HA	ASP	X	189	27.788	57.229	31.143	0.00	0.00
ATOM	2895	CB	ASP	X	189	27.962	55.478	29.986	0.00	0.00
ATOM	2896	HB2	ASP	X	189	28.566	55.943	29.207	0.00	0.00
ATOM	2897	HB3	ASP	X	189	28.389	54.492	30.169	0.00	0.00
ATOM	2898	CG	ASP	X	189	26.572	55.369	29.517	0.00	0.00
ATOM	2899	OD1	ASP	X	189	26.284	54.670	28.514	0.00	0.00
ATOM	2900	OD2	ASP	X	189	25.684	55.917	30.209	0.00	0.00
ATOM	2901	C	ASP	X	189	27.294	55.445	32.424	0.00	0.00
ATOM	2902	O	ASP	X	189	27.447	54.254	32.632	0.00	0.00
ATOM	2903	N	PRO	X	190	26.383	56.124	33.132	0.00	0.00
ATOM	2904	CD	PRO	X	190	26.061	57.580	33.244	0.00	0.00
ATOM	2905	HD2	PRO	X	190	25.328	57.929	32.517	0.00	0.00
ATOM	2906	HD3	PRO	X	190	27.000	58.099	33.048	0.00	0.00
ATOM	2907	CG	PRO	X	190	25.456	57.920	34.581	0.00	0.00
ATOM	2908	HG2	PRO	X	190	24.733	58.727	34.461	0.00	0.00
ATOM	2909	HG3	PRO	X	190	26.198	58.017	35.374	0.00	0.00
ATOM	2910	CB	PRO	X	190	24.718	56.590	34.783	0.00	0.00
ATOM	2911	HB2	PRO	X	190	23.740	56.545	34.302	0.00	0.00
ATOM	2912	HB3	PRO	X	190	24.621	56.398	35.851	0.00	0.00
ATOM	2913	CA	PRO	X	190	25.515	55.440	34.130	0.00	0.00
ATOM	2914	HA	PRO	X	190	26.079	54.896	34.888	0.00	0.00
ATOM	2915	C	PRO	X	190	24.662	54.314	33.484	0.00	0.00
ATOM	2916	O	PRO	X	190	24.292	53.397	34.281	0.00	0.00
ATOM	2917	N	THR	X	191	24.326	54.413	32.177	0.00	0.00
ATOM	2918	H	THR	X	191	24.597	55.162	31.555	0.00	0.00
ATOM	2919	CA	THR	X	191	23.533	53.448	31.510	0.00	0.00
ATOM	2920	HA	THR	X	191	22.807	53.076	32.234	0.00	0.00
ATOM	2921	CB	THR	X	191	22.776	54.030	30.294	0.00	0.00
ATOM	2922	HB	THR	X	191	22.075	53.242	30.020	0.00	0.00
ATOM	2923	CG2	THR	X	191	21.975	55.326	30.575	0.00	0.00
ATOM	2924	HG21	THR	X	191	21.375	55.143	31.466	0.00	0.00
ATOM	2925	HG22	THR	X	191	22.577	56.218	30.746	0.00	0.00
ATOM	2926	HG23	THR	X	191	21.308	55.402	29.717	0.00	0.00
ATOM	2927	OG1	THR	X	191	23.652	54.233	29.226	0.00	0.00
ATOM	2928	HG1	THR	X	191	24.348	54.816	29.539	0.00	0.00
ATOM	2929	C	THR	X	191	24.451	52.238	31.097	0.00	0.00
ATOM	2930	O	THR	X	191	23.946	51.277	30.549	0.00	0.00
ATOM	2931	N	SER	X	192	25.770	52.290	31.304	0.00	0.00
ATOM	2932	H	SER	X	192	26.147	53.077	31.812	0.00	0.00
ATOM	2933	CA	SER	X	192	26.660	51.201	30.740	0.00	0.00
ATOM	2934	HA	SER	X	192	26.185	50.222	30.676	0.00	0.00
ATOM	2935	CB	SER	X	192	27.085	51.560	29.318	0.00	0.00
ATOM	2936	HB2	SER	X	192	27.714	52.436	29.477	0.00	0.00
ATOM	2937	HB3	SER	X	192	27.810	50.867	28.890	0.00	0.00
ATOM	2938	OG	SER	X	192	26.022	51.858	28.376	0.00	0.00
ATOM	2939	HG	SER	X	192	25.928	52.812	28.330	0.00	0.00
ATOM	2940	C	SER	X	192	27.803	50.887	31.700	0.00	0.00
ATOM	2941	O	SER	X	192	28.994	51.179	31.416	0.00	0.00
ATOM	2942	N	VAL	X	193	27.502	50.408	32.914	0.00	0.00

ATOM	2943	H	VAL	X	193	26.532	50.176	33.071	0.00	0.00
ATOM	2944	CA	VAL	X	193	28.426	50.073	34.047	0.00	0.00
ATOM	2945	HA	VAL	X	193	29.300	50.702	33.880	0.00	0.00
ATOM	2946	CB	VAL	X	193	27.857	50.428	35.437	0.00	0.00
ATOM	2947	HB	VAL	X	193	26.903	49.927	35.598	0.00	0.00
ATOM	2948	CG1	VAL	X	193	28.866	49.960	36.547	0.00	0.00
ATOM	2949	HG11	VAL	X	193	28.384	50.149	37.506	0.00	0.00
ATOM	2950	HG12	VAL	X	193	29.026	48.889	36.420	0.00	0.00
ATOM	2951	HG13	VAL	X	193	29.858	50.388	36.399	0.00	0.00
ATOM	2952	CG2	VAL	X	193	27.658	51.992	35.576	0.00	0.00
ATOM	2953	HG21	VAL	X	193	26.828	52.288	34.935	0.00	0.00
ATOM	2954	HG22	VAL	X	193	27.421	52.183	36.622	0.00	0.00
ATOM	2955	HG23	VAL	X	193	28.578	52.530	35.345	0.00	0.00
ATOM	2956	C	VAL	X	193	28.637	48.607	33.880	0.00	0.00
ATOM	2957	O	VAL	X	193	27.678	47.835	33.855	0.00	0.00
ATOM	2958	N	THR	X	194	29.901	48.294	33.728	0.00	0.00
ATOM	2959	H	THR	X	194	30.585	49.030	33.619	0.00	0.00
ATOM	2960	CA	THR	X	194	30.433	46.897	33.879	0.00	0.00
ATOM	2961	HA	THR	X	194	29.575	46.254	34.077	0.00	0.00
ATOM	2962	CB	THR	X	194	31.020	46.596	32.535	0.00	0.00
ATOM	2963	HB	THR	X	194	31.818	47.309	32.327	0.00	0.00
ATOM	2964	CG2	THR	X	194	31.698	45.217	32.443	0.00	0.00
ATOM	2965	HG21	THR	X	194	30.915	44.498	32.685	0.00	0.00
ATOM	2966	HG22	THR	X	194	32.063	44.836	31.490	0.00	0.00
ATOM	2967	HG23	THR	X	194	32.527	45.089	33.139	0.00	0.00
ATOM	2968	OG1	THR	X	194	30.090	46.631	31.487	0.00	0.00
ATOM	2969	HG1	THR	X	194	29.863	47.542	31.290	0.00	0.00
ATOM	2970	C	THR	X	194	31.424	46.783	35.076	0.00	0.00
ATOM	2971	O	THR	X	194	32.077	47.768	35.455	0.00	0.00
ATOM	2972	N	LEU	X	195	31.536	45.548	35.601	0.00	0.00
ATOM	2973	H	LEU	X	195	30.993	44.819	35.161	0.00	0.00
ATOM	2974	CA	LEU	X	195	32.496	45.173	36.685	0.00	0.00
ATOM	2975	HA	LEU	X	195	32.917	46.015	37.234	0.00	0.00
ATOM	2976	CB	LEU	X	195	31.700	44.355	37.659	0.00	0.00
ATOM	2977	HB2	LEU	X	195	31.343	43.497	37.088	0.00	0.00
ATOM	2978	HB3	LEU	X	195	32.345	44.063	38.488	0.00	0.00
ATOM	2979	CG	LEU	X	195	30.489	44.914	38.292	0.00	0.00
ATOM	2980	HG	LEU	X	195	29.688	44.852	37.555	0.00	0.00
ATOM	2981	CD1	LEU	X	195	30.010	43.939	39.358	0.00	0.00
ATOM	2982	HD11	LEU	X	195	29.623	43.049	38.861	0.00	0.00
ATOM	2983	HD12	LEU	X	195	30.732	43.825	40.166	0.00	0.00
ATOM	2984	HD13	LEU	X	195	29.132	44.369	39.841	0.00	0.00
ATOM	2985	CD2	LEU	X	195	30.544	46.381	38.842	0.00	0.00
ATOM	2986	HD21	LEU	X	195	31.434	46.516	39.456	0.00	0.00
ATOM	2987	HD22	LEU	X	195	30.681	47.024	37.973	0.00	0.00
ATOM	2988	HD23	LEU	X	195	29.598	46.638	39.318	0.00	0.00
ATOM	2989	C	LEU	X	195	33.571	44.258	36.041	0.00	0.00
ATOM	2990	O	LEU	X	195	33.141	43.343	35.336	0.00	0.00
ATOM	2991	N	PHE	X	196	34.837	44.292	36.429	0.00	0.00
ATOM	2992	H	PHE	X	196	34.991	45.103	37.010	0.00	0.00
ATOM	2993	CA	PHE	X	196	35.902	43.350	36.261	0.00	0.00
ATOM	2994	HA	PHE	X	196	35.464	42.354	36.190	0.00	0.00
ATOM	2995	CB	PHE	X	196	36.618	43.757	34.956	0.00	0.00
ATOM	2996	HB2	PHE	X	196	36.975	42.852	34.465	0.00	0.00
ATOM	2997	HB3	PHE	X	196	35.910	44.208	34.260	0.00	0.00
ATOM	2998	CG	PHE	X	196	37.783	44.796	35.056	0.00	0.00
ATOM	2999	CD1	PHE	X	196	37.546	46.128	35.173	0.00	0.00
ATOM	3000	HD1	PHE	X	196	36.528	46.454	35.324	0.00	0.00
ATOM	3001	CE1	PHE	X	196	38.579	47.126	34.979	0.00	0.00
ATOM	3002	HE1	PHE	X	196	38.400	48.188	34.900	0.00	0.00
ATOM	3003	CZ	PHE	X	196	39.864	46.677	34.650	0.00	0.00
ATOM	3004	HZ	PHE	X	196	40.666	47.356	34.401	0.00	0.00
ATOM	3005	CE2	PHE	X	196	40.121	45.294	34.624	0.00	0.00
ATOM	3006	HE2	PHE	X	196	41.130	44.954	34.442	0.00	0.00
ATOM	3007	CD2	PHE	X	196	39.065	44.335	34.640	0.00	0.00
ATOM	3008	HD2	PHE	X	196	39.270	43.283	34.509	0.00	0.00
ATOM	3009	C	PHE	X	196	36.723	43.180	37.517	0.00	0.00
ATOM	3010	O	PHE	X	196	36.912	44.076	38.386	0.00	0.00
ATOM	3011	N	GLY	X	197	37.406	42.007	37.599	0.00	0.00
ATOM	3012	H	GLY	X	197	37.387	41.315	36.864	0.00	0.00

ATOM	3013	CA	GLY	X	197	38.213	41.738	38.782	0.00	0.00
ATOM	3014	HA2	GLY	X	197	38.853	42.597	39.012	0.00	0.00
ATOM	3015	HA3	GLY	X	197	37.456	41.637	39.555	0.00	0.00
ATOM	3016	C	GLY	X	197	39.082	40.406	38.786	0.00	0.00
ATOM	3017	O	GLY	X	197	38.847	39.549	37.938	0.00	0.00
ATOM	3018	N	GLU	X	198	40.170	40.338	39.628	0.00	0.00
ATOM	3019	H	GLU	X	198	40.452	41.184	40.103	0.00	0.00
ATOM	3020	CA	GLU	X	198	40.972	39.108	39.838	0.00	0.00
ATOM	3021	HA	GLU	X	198	40.636	38.424	39.058	0.00	0.00
ATOM	3022	CB	GLU	X	198	42.494	39.242	39.563	0.00	0.00
ATOM	3023	HB2	GLU	X	198	42.934	38.252	39.440	0.00	0.00
ATOM	3024	HB3	GLU	X	198	42.662	39.725	38.601	0.00	0.00
ATOM	3025	CG	GLU	X	198	43.263	39.967	40.760	0.00	0.00
ATOM	3026	HG2	GLU	X	198	42.631	40.812	41.033	0.00	0.00
ATOM	3027	HG3	GLU	X	198	43.343	39.375	41.671	0.00	0.00
ATOM	3028	CD	GLU	X	198	44.706	40.417	40.403	0.00	0.00
ATOM	3029	OE1	GLU	X	198	45.080	41.520	40.929	0.00	0.00
ATOM	3030	OE2	GLU	X	198	45.574	39.605	39.972	0.00	0.00
ATOM	3031	C	GLU	X	198	40.871	38.386	41.127	0.00	0.00
ATOM	3032	O	GLU	X	198	40.674	38.968	42.124	0.00	0.00
ATOM	3033	N	XA1	X	199	40.903	37.041	41.140	0.00	0.00
ATOM	3034	CA	XA1	X	199	40.977	36.212	42.353	0.00	0.00
ATOM	3035	C	XA1	X	199	39.905	36.577	43.491	0.00	0.00
ATOM	3036	O	XA1	X	199	38.730	36.256	43.275	0.00	0.00
ATOM	3037	CB	XA1	X	199	42.444	36.369	42.846	0.00	0.00
ATOM	3038	OG	XA1	X	199	42.766	35.283	43.851	0.00	0.00
ATOM	3039	P1	XA1	X	199	43.549	35.620	45.162	0.00	0.00
ATOM	3040	O1	XA1	X	199	43.285	36.987	45.732	0.00	0.00
ATOM	3041	O2	XA1	X	199	44.984	35.145	44.897	0.00	0.00
ATOM	3042	C1	XA1	X	199	42.612	34.447	46.096	0.00	0.00
ATOM	3043	H	XA1	X	199	40.895	36.537	40.265	0.00	0.00
ATOM	3044	HA	XA1	X	199	40.915	35.166	42.054	0.00	0.00
ATOM	3045	HB2	XA1	X	199	43.156	36.458	42.021	0.00	0.00
ATOM	3046	HB3	XA1	X	199	42.437	37.378	43.268	0.00	0.00
ATOM	3047	H11	XA1	X	199	41.664	34.906	46.384	0.00	0.00
ATOM	3048	H12	XA1	X	199	42.462	33.558	45.479	0.00	0.00
ATOM	3049	H13	XA1	X	199	43.188	34.127	46.967	0.00	0.00
ATOM	3050	N	ALA	X	200	40.294	37.234	44.630	0.00	0.00
ATOM	3051	H	ALA	X	200	41.284	37.323	44.806	0.00	0.00
ATOM	3052	CA	ALA	X	200	39.375	37.621	45.687	0.00	0.00
ATOM	3053	HA	ALA	X	200	38.679	36.812	45.908	0.00	0.00
ATOM	3054	CB	ALA	X	200	40.172	38.088	46.898	0.00	0.00
ATOM	3055	HB1	ALA	X	200	40.630	39.062	46.724	0.00	0.00
ATOM	3056	HB2	ALA	X	200	39.462	38.197	47.718	0.00	0.00
ATOM	3057	HB3	ALA	X	200	40.880	37.330	47.232	0.00	0.00
ATOM	3058	C	ALA	X	200	38.495	38.814	45.328	0.00	0.00
ATOM	3059	O	ALA	X	200	37.488	39.102	45.978	0.00	0.00
ATOM	3060	N	GLY	X	201	38.873	39.487	44.252	0.00	0.00
ATOM	3061	H	GLY	X	201	39.684	39.181	43.733	0.00	0.00
ATOM	3062	CA	GLY	X	201	38.090	40.588	43.558	0.00	0.00
ATOM	3063	HA2	GLY	X	201	37.662	41.252	44.334	0.00	0.00
ATOM	3064	HA3	GLY	X	201	38.766	41.115	43.059	0.00	0.00
ATOM	3065	C	GLY	X	201	37.173	39.985	42.565	0.00	0.00
ATOM	3066	O	GLY	X	201	35.948	40.280	42.621	0.00	0.00
ATOM	3067	N	ALA	X	202	37.611	39.119	41.655	0.00	0.00
ATOM	3068	H	ALA	X	202	38.595	38.902	41.725	0.00	0.00
ATOM	3069	CA	ALA	X	202	36.689	38.371	40.766	0.00	0.00
ATOM	3070	HA	ALA	X	202	36.185	39.108	40.140	0.00	0.00
ATOM	3071	CB	ALA	X	202	37.491	37.286	39.916	0.00	0.00
ATOM	3072	HB1	ALA	X	202	38.166	37.787	39.222	0.00	0.00
ATOM	3073	HB2	ALA	X	202	38.105	36.636	40.539	0.00	0.00
ATOM	3074	HB3	ALA	X	202	36.799	36.670	39.342	0.00	0.00
ATOM	3075	C	ALA	X	202	35.653	37.657	41.666	0.00	0.00
ATOM	3076	O	ALA	X	202	34.474	37.674	41.370	0.00	0.00
ATOM	3077	N	ALA	X	203	36.011	37.041	42.780	0.00	0.00
ATOM	3078	H	ALA	X	203	36.973	36.844	43.015	0.00	0.00
ATOM	3079	CA	ALA	X	203	35.086	36.425	43.706	0.00	0.00
ATOM	3080	HA	ALA	X	203	34.442	35.731	43.166	0.00	0.00
ATOM	3081	CB	ALA	X	203	35.787	35.647	44.743	0.00	0.00
ATOM	3082	HB1	ALA	X	203	36.184	34.752	44.262	0.00	0.00

ATOM	3083	HB2	ALA	X	203	36.626	36.203	45.160	0.00	0.00
ATOM	3084	HB3	ALA	X	203	35.159	35.362	45.587	0.00	0.00
ATOM	3085	C	ALA	X	203	34.148	37.488	44.407	0.00	0.00
ATOM	3086	O	ALA	X	203	32.931	37.285	44.390	0.00	0.00
ATOM	3087	N	SER	X	204	34.648	38.600	44.919	0.00	0.00
ATOM	3088	H	SER	X	204	35.620	38.771	44.705	0.00	0.00
ATOM	3089	CA	SER	X	204	33.855	39.799	45.260	0.00	0.00
ATOM	3090	HA	SER	X	204	33.286	39.552	46.157	0.00	0.00
ATOM	3091	CB	SER	X	204	34.703	41.047	45.584	0.00	0.00
ATOM	3092	HB2	SER	X	204	35.252	41.431	44.724	0.00	0.00
ATOM	3093	HB3	SER	X	204	33.949	41.791	45.840	0.00	0.00
ATOM	3094	OG	SER	X	204	35.590	40.857	46.668	0.00	0.00
ATOM	3095	HG	SER	X	204	36.200	40.172	46.388	0.00	0.00
ATOM	3096	C	SER	X	204	32.740	40.179	44.210	0.00	0.00
ATOM	3097	O	SER	X	204	31.556	40.195	44.522	0.00	0.00
ATOM	3098	N	VAL	X	205	33.134	40.256	42.950	0.00	0.00
ATOM	3099	H	VAL	X	205	34.122	40.395	42.794	0.00	0.00
ATOM	3100	CA	VAL	X	205	32.173	40.433	41.766	0.00	0.00
ATOM	3101	HA	VAL	X	205	31.532	41.303	41.906	0.00	0.00
ATOM	3102	CB	VAL	X	205	33.021	40.695	40.460	0.00	0.00
ATOM	3103	HB	VAL	X	205	33.726	39.877	40.311	0.00	0.00
ATOM	3104	CG1	VAL	X	205	32.130	40.773	39.193	0.00	0.00
ATOM	3105	HG11	VAL	X	205	31.555	41.698	39.157	0.00	0.00
ATOM	3106	HG12	VAL	X	205	32.686	40.663	38.261	0.00	0.00
ATOM	3107	HG13	VAL	X	205	31.415	39.951	39.207	0.00	0.00
ATOM	3108	CG2	VAL	X	205	33.835	41.987	40.574	0.00	0.00
ATOM	3109	HG21	VAL	X	205	34.667	41.876	41.269	0.00	0.00
ATOM	3110	HG22	VAL	X	205	34.197	42.307	39.597	0.00	0.00
ATOM	3111	HG23	VAL	X	205	33.217	42.862	40.774	0.00	0.00
ATOM	3112	C	VAL	X	205	31.163	39.289	41.520	0.00	0.00
ATOM	3113	O	VAL	X	205	29.975	39.549	41.332	0.00	0.00
ATOM	3114	N	GLY	X	206	31.636	38.063	41.716	0.00	0.00
ATOM	3115	H	GLY	X	206	32.637	37.934	41.734	0.00	0.00
ATOM	3116	CA	GLY	X	206	30.720	36.928	41.827	0.00	0.00
ATOM	3117	HA2	GLY	X	206	30.188	36.775	40.843	0.00	0.00
ATOM	3118	HA3	GLY	X	206	31.277	36.030	41.964	0.00	0.00
ATOM	3119	C	GLY	X	206	29.664	37.112	42.963	0.00	0.00
ATOM	3120	O	GLY	X	206	28.443	37.000	42.641	0.00	0.00
ATOM	3121	N	MET	X	207	30.074	37.434	44.193	0.00	0.00
ATOM	3122	H	MET	X	207	31.073	37.539	44.298	0.00	0.00
ATOM	3123	CA	MET	X	207	29.127	37.806	45.246	0.00	0.00
ATOM	3124	HA	MET	X	207	28.491	36.937	45.410	0.00	0.00
ATOM	3125	CB	MET	X	207	29.807	38.009	46.647	0.00	0.00
ATOM	3126	HB2	MET	X	207	30.239	39.009	46.678	0.00	0.00
ATOM	3127	HB3	MET	X	207	29.003	37.960	47.382	0.00	0.00
ATOM	3128	CG	MET	X	207	30.748	36.893	47.055	0.00	0.00
ATOM	3129	HG2	MET	X	207	31.482	36.762	46.260	0.00	0.00
ATOM	3130	HG3	MET	X	207	31.355	37.144	47.925	0.00	0.00
ATOM	3131	SD	MET	X	207	29.976	35.224	47.239	0.00	0.00
ATOM	3132	CE	MET	X	207	31.623	34.469	47.380	0.00	0.00
ATOM	3133	HE1	MET	X	207	31.394	33.494	47.810	0.00	0.00
ATOM	3134	HE2	MET	X	207	32.173	34.430	46.440	0.00	0.00
ATOM	3135	HE3	MET	X	207	32.191	35.028	48.124	0.00	0.00
ATOM	3136	C	MET	X	207	28.095	38.837	44.768	0.00	0.00
ATOM	3137	O	MET	X	207	26.864	38.667	44.885	0.00	0.00
ATOM	3138	N	HIE	X	208	28.601	39.941	44.142	0.00	0.00
ATOM	3139	H	HIE	X	208	29.604	40.045	44.197	0.00	0.00
ATOM	3140	CA	HIE	X	208	27.795	41.097	43.799	0.00	0.00
ATOM	3141	HA	HIE	X	208	27.216	41.412	44.668	0.00	0.00
ATOM	3142	CB	HIE	X	208	28.689	42.311	43.479	0.00	0.00
ATOM	3143	HB2	HIE	X	208	29.603	41.993	42.979	0.00	0.00
ATOM	3144	HB3	HIE	X	208	28.229	43.173	42.995	0.00	0.00
ATOM	3145	CG	HIE	X	208	29.171	42.964	44.761	0.00	0.00
ATOM	3146	ND1	HIE	X	208	28.399	43.651	45.686	0.00	0.00
ATOM	3147	CE1	HIE	X	208	29.263	44.191	46.552	0.00	0.00
ATOM	3148	HE1	HIE	X	208	28.902	44.702	47.432	0.00	0.00
ATOM	3149	NE2	HIE	X	208	30.503	43.761	46.322	0.00	0.00
ATOM	3150	HE2	HIE	X	208	31.339	43.880	46.877	0.00	0.00
ATOM	3151	CD2	HIE	X	208	30.463	43.034	45.170	0.00	0.00
ATOM	3152	HD2	HIE	X	208	31.305	42.672	44.599	0.00	0.00

ATOM	3153	C	HIE	X	208	26.829	40.868	42.657	0.00	0.00
ATOM	3154	O	HIE	X	208	25.800	41.506	42.703	0.00	0.00
ATOM	3155	N	LEU	X	209	27.111	39.817	41.807	0.00	0.00
ATOM	3156	H	LEU	X	209	28.023	39.390	41.879	0.00	0.00
ATOM	3157	CA	LEU	X	209	26.295	39.238	40.752	0.00	0.00
ATOM	3158	HA	LEU	X	209	25.853	40.077	40.214	0.00	0.00
ATOM	3159	CB	LEU	X	209	27.297	38.493	39.722	0.00	0.00
ATOM	3160	HB2	LEU	X	209	27.971	39.246	39.315	0.00	0.00
ATOM	3161	HB3	LEU	X	209	27.916	37.698	40.137	0.00	0.00
ATOM	3162	CG	LEU	X	209	26.545	37.925	38.453	0.00	0.00
ATOM	3163	HG	LEU	X	209	25.536	38.334	38.500	0.00	0.00
ATOM	3164	CD1	LEU	X	209	27.147	38.208	37.120	0.00	0.00
ATOM	3165	HD11	LEU	X	209	26.990	39.232	36.781	0.00	0.00
ATOM	3166	HD12	LEU	X	209	28.207	37.955	37.135	0.00	0.00
ATOM	3167	HD13	LEU	X	209	26.596	37.580	36.420	0.00	0.00
ATOM	3168	CD2	LEU	X	209	26.379	36.328	38.591	0.00	0.00
ATOM	3169	HD21	LEU	X	209	25.877	35.937	37.706	0.00	0.00
ATOM	3170	HD22	LEU	X	209	27.360	35.854	38.615	0.00	0.00
ATOM	3171	HD23	LEU	X	209	25.789	36.071	39.470	0.00	0.00
ATOM	3172	C	LEU	X	209	25.179	38.364	41.378	0.00	0.00
ATOM	3173	O	LEU	X	209	24.087	38.327	40.732	0.00	0.00
ATOM	3174	N	LEU	X	210	25.466	37.660	42.446	0.00	0.00
ATOM	3175	H	LEU	X	210	26.334	37.782	42.946	0.00	0.00
ATOM	3176	CA	LEU	X	210	24.521	36.852	43.289	0.00	0.00
ATOM	3177	HA	LEU	X	210	23.915	36.230	42.630	0.00	0.00
ATOM	3178	CB	LEU	X	210	25.440	35.920	44.093	0.00	0.00
ATOM	3179	HB2	LEU	X	210	26.412	36.387	44.248	0.00	0.00
ATOM	3180	HB3	LEU	X	210	25.052	35.884	45.111	0.00	0.00
ATOM	3181	CG	LEU	X	210	25.722	34.539	43.352	0.00	0.00
ATOM	3182	HG	LEU	X	210	26.196	34.776	42.400	0.00	0.00
ATOM	3183	CD1	LEU	X	210	26.671	33.811	44.246	0.00	0.00
ATOM	3184	HD11	LEU	X	210	26.219	33.535	45.199	0.00	0.00
ATOM	3185	HD12	LEU	X	210	27.183	33.089	43.609	0.00	0.00
ATOM	3186	HD13	LEU	X	210	27.502	34.494	44.420	0.00	0.00
ATOM	3187	CD2	LEU	X	210	24.437	33.728	43.096	0.00	0.00
ATOM	3188	HD21	LEU	X	210	23.830	34.107	42.274	0.00	0.00
ATOM	3189	HD22	LEU	X	210	24.817	32.739	42.839	0.00	0.00
ATOM	3190	HD23	LEU	X	210	23.806	33.742	43.985	0.00	0.00
ATOM	3191	C	LEU	X	210	23.524	37.634	44.198	0.00	0.00
ATOM	3192	O	LEU	X	210	22.440	37.136	44.464	0.00	0.00
ATOM	3193	N	SER	X	211	23.926	38.805	44.754	0.00	0.00
ATOM	3194	H	SER	X	211	24.866	39.088	44.519	0.00	0.00
ATOM	3195	CA	SER	X	211	23.169	39.738	45.656	0.00	0.00
ATOM	3196	HA	SER	X	211	22.595	39.106	46.333	0.00	0.00
ATOM	3197	CB	SER	X	211	24.209	40.527	46.437	0.00	0.00
ATOM	3198	HB2	SER	X	211	24.856	39.835	46.975	0.00	0.00
ATOM	3199	HB3	SER	X	211	24.755	41.196	45.771	0.00	0.00
ATOM	3200	OG	SER	X	211	23.640	41.385	47.391	0.00	0.00
ATOM	3201	HG	SER	X	211	23.074	40.843	47.945	0.00	0.00
ATOM	3202	C	SER	X	211	22.288	40.721	44.824	0.00	0.00
ATOM	3203	O	SER	X	211	22.863	41.534	44.068	0.00	0.00
ATOM	3204	N	PRO	X	212	20.929	40.657	44.785	0.00	0.00
ATOM	3205	CD	PRO	X	212	20.110	39.527	45.378	0.00	0.00
ATOM	3206	HD2	PRO	X	212	20.361	39.281	46.409	0.00	0.00
ATOM	3207	HD3	PRO	X	212	20.334	38.646	44.776	0.00	0.00
ATOM	3208	CG	PRO	X	212	18.659	39.909	45.174	0.00	0.00
ATOM	3209	HG2	PRO	X	212	18.119	40.218	46.068	0.00	0.00
ATOM	3210	HG3	PRO	X	212	18.081	39.036	44.870	0.00	0.00
ATOM	3211	CB	PRO	X	212	18.685	41.039	44.175	0.00	0.00
ATOM	3212	HB2	PRO	X	212	17.998	41.838	44.453	0.00	0.00
ATOM	3213	HB3	PRO	X	212	18.419	40.652	43.192	0.00	0.00
ATOM	3214	CA	PRO	X	212	20.095	41.591	44.049	0.00	0.00
ATOM	3215	HA	PRO	X	212	20.321	41.509	42.985	0.00	0.00
ATOM	3216	C	PRO	X	212	20.213	43.071	44.336	0.00	0.00
ATOM	3217	O	PRO	X	212	20.241	43.860	43.419	0.00	0.00
ATOM	3218	N	PRO	X	213	20.406	43.522	45.615	0.00	0.00
ATOM	3219	CD	PRO	X	213	20.059	42.749	46.855	0.00	0.00
ATOM	3220	HD2	PRO	X	213	20.828	41.991	46.999	0.00	0.00
ATOM	3221	HD3	PRO	X	213	19.066	42.302	46.803	0.00	0.00
ATOM	3222	CG	PRO	X	213	20.057	43.716	48.045	0.00	0.00

ATOM	3223	HG2	PRO	X	213	20.324	43.356	49.038	0.00	0.00
ATOM	3224	HG3	PRO	X	213	19.024	44.042	48.165	0.00	0.00
ATOM	3225	CB	PRO	X	213	20.897	44.868	47.471	0.00	0.00
ATOM	3226	HB2	PRO	X	213	21.931	44.751	47.796	0.00	0.00
ATOM	3227	HB3	PRO	X	213	20.633	45.865	47.824	0.00	0.00
ATOM	3228	CA	PRO	X	213	20.744	44.857	45.944	0.00	0.00
ATOM	3229	HA	PRO	X	213	19.841	45.385	45.639	0.00	0.00
ATOM	3230	C	PRO	X	213	22.052	45.402	45.389	0.00	0.00
ATOM	3231	O	PRO	X	213	22.281	46.598	45.328	0.00	0.00
ATOM	3232	N	SER	X	214	23.045	44.522	45.037	0.00	0.00
ATOM	3233	H	SER	X	214	22.806	43.542	45.072	0.00	0.00
ATOM	3234	CA	SER	X	214	24.138	45.001	44.220	0.00	0.00
ATOM	3235	HA	SER	X	214	24.254	46.050	44.495	0.00	0.00
ATOM	3236	CB	SER	X	214	25.467	44.258	44.557	0.00	0.00
ATOM	3237	HB2	SER	X	214	25.306	43.187	44.432	0.00	0.00
ATOM	3238	HB3	SER	X	214	26.162	44.563	43.775	0.00	0.00
ATOM	3239	OG	SER	X	214	25.832	44.523	45.911	0.00	0.00
ATOM	3240	HG	SER	X	214	26.679	44.116	46.108	0.00	0.00
ATOM	3241	C	SER	X	214	23.779	44.868	42.644	0.00	0.00
ATOM	3242	O	SER	X	214	24.376	45.611	41.770	0.00	0.00
ATOM	3243	N	ARG	X	215	23.015	43.880	42.346	0.00	0.00
ATOM	3244	H	ARG	X	215	22.810	43.229	43.091	0.00	0.00
ATOM	3245	CA	ARG	X	215	22.906	43.438	40.975	0.00	0.00
ATOM	3246	HA	ARG	X	215	23.910	43.289	40.576	0.00	0.00
ATOM	3247	CB	ARG	X	215	22.160	42.129	40.831	0.00	0.00
ATOM	3248	HB2	ARG	X	215	22.669	41.343	41.389	0.00	0.00
ATOM	3249	HB3	ARG	X	215	21.155	42.308	41.213	0.00	0.00
ATOM	3250	CG	ARG	X	215	22.148	41.629	39.417	0.00	0.00
ATOM	3251	HG2	ARG	X	215	21.534	42.276	38.790	0.00	0.00
ATOM	3252	HG3	ARG	X	215	23.164	41.653	39.023	0.00	0.00
ATOM	3253	CD	ARG	X	215	21.587	40.269	39.232	0.00	0.00
ATOM	3254	HD2	ARG	X	215	22.312	39.505	39.514	0.00	0.00
ATOM	3255	HD3	ARG	X	215	20.818	40.231	40.004	0.00	0.00
ATOM	3256	NE	ARG	X	215	20.944	39.980	37.945	0.00	0.00
ATOM	3257	HE	ARG	X	215	21.051	40.716	37.262	0.00	0.00
ATOM	3258	CZ	ARG	X	215	20.184	38.959	37.580	0.00	0.00
ATOM	3259	NH1	ARG	X	215	19.919	38.037	38.471	0.00	0.00
ATOM	3260	HH11	ARG	X	215	20.070	38.198	39.457	0.00	0.00
ATOM	3261	HH12	ARG	X	215	19.236	37.359	38.167	0.00	0.00
ATOM	3262	NH2	ARG	X	215	19.715	38.858	36.394	0.00	0.00
ATOM	3263	HH21	ARG	X	215	19.926	39.568	35.707	0.00	0.00
ATOM	3264	HH22	ARG	X	215	19.163	38.052	36.137	0.00	0.00
ATOM	3265	C	ARG	X	215	22.228	44.561	40.113	0.00	0.00
ATOM	3266	O	ARG	X	215	22.597	44.747	38.914	0.00	0.00
ATOM	3267	N	GLY	X	216	21.331	45.341	40.713	0.00	0.00
ATOM	3268	H	GLY	X	216	20.948	45.053	41.602	0.00	0.00
ATOM	3269	CA	GLY	X	216	20.571	46.378	40.006	0.00	0.00
ATOM	3270	HA2	GLY	X	216	20.296	46.001	39.007	0.00	0.00
ATOM	3271	HA3	GLY	X	216	19.719	46.472	40.523	0.00	0.00
ATOM	3272	C	GLY	X	216	21.268	47.717	39.825	0.00	0.00
ATOM	3273	O	GLY	X	216	20.692	48.669	39.548	0.00	0.00
ATOM	3274	N	LEU	X	217	22.636	47.705	39.969	0.00	0.00
ATOM	3275	H	LEU	X	217	23.048	46.801	40.153	0.00	0.00
ATOM	3276	CA	LEU	X	217	23.586	48.841	39.773	0.00	0.00
ATOM	3277	HA	LEU	X	217	22.963	49.702	39.530	0.00	0.00
ATOM	3278	CB	LEU	X	217	24.364	49.073	41.108	0.00	0.00
ATOM	3279	HB2	LEU	X	217	25.070	48.266	41.307	0.00	0.00
ATOM	3280	HB3	LEU	X	217	24.961	49.959	40.892	0.00	0.00
ATOM	3281	CG	LEU	X	217	23.520	49.223	42.372	0.00	0.00
ATOM	3282	HG	LEU	X	217	22.895	48.357	42.596	0.00	0.00
ATOM	3283	CD1	LEU	X	217	24.330	49.357	43.601	0.00	0.00
ATOM	3284	HD11	LEU	X	217	23.726	49.795	44.396	0.00	0.00
ATOM	3285	HD12	LEU	X	217	24.725	48.395	43.929	0.00	0.00
ATOM	3286	HD13	LEU	X	217	25.200	49.991	43.431	0.00	0.00
ATOM	3287	CD2	LEU	X	217	22.694	50.471	42.303	0.00	0.00
ATOM	3288	HD21	LEU	X	217	22.176	50.650	41.360	0.00	0.00
ATOM	3289	HD22	LEU	X	217	21.981	50.395	43.124	0.00	0.00
ATOM	3290	HD23	LEU	X	217	23.286	51.378	42.428	0.00	0.00
ATOM	3291	C	LEU	X	217	24.528	48.738	38.535	0.00	0.00
ATOM	3292	O	LEU	X	217	25.360	49.605	38.223	0.00	0.00

ATOM	3293	N	PHE	X	218	24.482	47.653	37.802	0.00	0.00
ATOM	3294	H	PHE	X	218	23.909	46.917	38.190	0.00	0.00
ATOM	3295	CA	PHE	X	218	25.335	47.326	36.676	0.00	0.00
ATOM	3296	HA	PHE	X	218	25.650	48.200	36.107	0.00	0.00
ATOM	3297	CB	PHE	X	218	26.713	46.746	37.126	0.00	0.00
ATOM	3298	HB2	PHE	X	218	27.430	46.663	36.309	0.00	0.00
ATOM	3299	HB3	PHE	X	218	27.109	47.515	37.789	0.00	0.00
ATOM	3300	CG	PHE	X	218	26.657	45.479	37.954	0.00	0.00
ATOM	3301	CD1	PHE	X	218	26.448	45.473	39.375	0.00	0.00
ATOM	3302	HD1	PHE	X	218	26.303	46.397	39.915	0.00	0.00
ATOM	3303	CE1	PHE	X	218	26.360	44.239	40.032	0.00	0.00
ATOM	3304	HE1	PHE	X	218	26.274	44.179	41.107	0.00	0.00
ATOM	3305	CZ	PHE	X	218	26.277	43.010	39.326	0.00	0.00
ATOM	3306	HZ	PHE	X	218	26.025	42.143	39.920	0.00	0.00
ATOM	3307	CE2	PHE	X	218	26.368	42.983	37.912	0.00	0.00
ATOM	3308	HE2	PHE	X	218	26.209	42.103	37.306	0.00	0.00
ATOM	3309	CD2	PHE	X	218	26.661	44.216	37.281	0.00	0.00
ATOM	3310	HD2	PHE	X	218	26.647	44.256	36.202	0.00	0.00
ATOM	3311	C	PHE	X	218	24.588	46.527	35.657	0.00	0.00
ATOM	3312	O	PHE	X	218	23.572	45.852	35.845	0.00	0.00
ATOM	3313	N	HIE	X	219	25.116	46.583	34.413	0.00	0.00
ATOM	3314	H	HIE	X	219	25.824	47.291	34.276	0.00	0.00
ATOM	3315	CA	HIE	X	219	24.553	45.972	33.164	0.00	0.00
ATOM	3316	HA	HIE	X	219	23.514	45.678	33.309	0.00	0.00
ATOM	3317	CB	HIE	X	219	24.692	46.921	31.938	0.00	0.00
ATOM	3318	HB2	HIE	X	219	25.759	47.102	31.807	0.00	0.00
ATOM	3319	HB3	HIE	X	219	24.153	46.548	31.067	0.00	0.00
ATOM	3320	CG	HIE	X	219	24.064	48.228	32.403	0.00	0.00
ATOM	3321	ND1	HIE	X	219	24.806	49.307	32.928	0.00	0.00
ATOM	3322	CE1	HIE	X	219	23.913	50.276	33.267	0.00	0.00
ATOM	3323	HE1	HIE	X	219	24.170	51.269	33.606	0.00	0.00
ATOM	3324	NE2	HIE	X	219	22.623	49.795	33.015	0.00	0.00
ATOM	3325	HE2	HIE	X	219	21.721	50.249	33.045	0.00	0.00
ATOM	3326	CD2	HIE	X	219	22.688	48.476	32.593	0.00	0.00
ATOM	3327	HD2	HIE	X	219	21.794	47.902	32.397	0.00	0.00
ATOM	3328	C	HIE	X	219	25.242	44.663	32.928	0.00	0.00
ATOM	3329	O	HIE	X	219	24.724	43.776	32.269	0.00	0.00
ATOM	3330	N	ARG	X	220	26.496	44.453	33.389	0.00	0.00
ATOM	3331	H	ARG	X	220	26.903	45.139	34.010	0.00	0.00
ATOM	3332	CA	ARG	X	220	27.465	43.388	32.929	0.00	0.00
ATOM	3333	HA	ARG	X	220	26.903	42.459	32.829	0.00	0.00
ATOM	3334	CB	ARG	X	220	28.109	43.669	31.569	0.00	0.00
ATOM	3335	HB2	ARG	X	220	28.728	44.557	31.698	0.00	0.00
ATOM	3336	HB3	ARG	X	220	28.875	42.926	31.347	0.00	0.00
ATOM	3337	CG	ARG	X	220	27.150	43.961	30.386	0.00	0.00
ATOM	3338	HG2	ARG	X	220	26.744	43.018	30.020	0.00	0.00
ATOM	3339	HG3	ARG	X	220	26.290	44.551	30.705	0.00	0.00
ATOM	3340	CD	ARG	X	220	27.883	44.575	29.174	0.00	0.00
ATOM	3341	HD2	ARG	X	220	28.499	45.418	29.486	0.00	0.00
ATOM	3342	HD3	ARG	X	220	28.530	43.773	28.817	0.00	0.00
ATOM	3343	NE	ARG	X	220	26.899	44.894	28.157	0.00	0.00
ATOM	3344	HE	ARG	X	220	26.559	44.068	27.686	0.00	0.00
ATOM	3345	CZ	ARG	X	220	26.374	46.120	27.922	0.00	0.00
ATOM	3346	NH1	ARG	X	220	26.659	47.191	28.527	0.00	0.00
ATOM	3347	HH11	ARG	X	220	27.311	47.181	29.298	0.00	0.00
ATOM	3348	HH12	ARG	X	220	26.111	47.999	28.268	0.00	0.00
ATOM	3349	NH2	ARG	X	220	25.374	46.118	27.087	0.00	0.00
ATOM	3350	HH21	ARG	X	220	24.994	45.310	26.615	0.00	0.00
ATOM	3351	HH22	ARG	X	220	24.881	46.973	26.871	0.00	0.00
ATOM	3352	C	ARG	X	220	28.542	43.169	34.040	0.00	0.00
ATOM	3353	O	ARG	X	220	28.903	43.991	34.868	0.00	0.00
ATOM	3354	N	ALA	X	221	29.152	42.006	33.932	0.00	0.00
ATOM	3355	H	ALA	X	221	28.907	41.443	33.130	0.00	0.00
ATOM	3356	CA	ALA	X	221	30.319	41.645	34.802	0.00	0.00
ATOM	3357	HA	ALA	X	221	30.895	42.540	35.034	0.00	0.00
ATOM	3358	CB	ALA	X	221	29.702	41.113	36.117	0.00	0.00
ATOM	3359	HB1	ALA	X	221	29.120	40.201	35.978	0.00	0.00
ATOM	3360	HB2	ALA	X	221	30.528	40.949	36.809	0.00	0.00
ATOM	3361	HB3	ALA	X	221	29.024	41.827	36.584	0.00	0.00
ATOM	3362	C	ALA	X	221	31.299	40.664	34.270	0.00	0.00

ATOM	3363	O	ALA	X	221	31.040	39.902	33.386	0.00	0.00
ATOM	3364	N	VAL	X	222	32.515	40.730	34.716	0.00	0.00
ATOM	3365	H	VAL	X	222	32.647	41.640	35.132	0.00	0.00
ATOM	3366	CA	VAL	X	222	33.717	39.962	34.303	0.00	0.00
ATOM	3367	HA	VAL	X	222	33.469	39.144	33.628	0.00	0.00
ATOM	3368	CB	VAL	X	222	34.736	40.874	33.507	0.00	0.00
ATOM	3369	HB	VAL	X	222	34.906	41.789	34.074	0.00	0.00
ATOM	3370	CG1	VAL	X	222	36.071	40.141	33.141	0.00	0.00
ATOM	3371	HG11	VAL	X	222	36.607	40.735	32.401	0.00	0.00
ATOM	3372	HG12	VAL	X	222	36.646	40.137	34.067	0.00	0.00
ATOM	3373	HG13	VAL	X	222	35.907	39.185	32.643	0.00	0.00
ATOM	3374	CG2	VAL	X	222	34.015	41.344	32.230	0.00	0.00
ATOM	3375	HG21	VAL	X	222	33.503	42.295	32.379	0.00	0.00
ATOM	3376	HG22	VAL	X	222	34.719	41.526	31.418	0.00	0.00
ATOM	3377	HG23	VAL	X	222	33.321	40.604	31.832	0.00	0.00
ATOM	3378	C	VAL	X	222	34.434	39.392	35.539	0.00	0.00
ATOM	3379	O	VAL	X	222	34.763	40.042	36.511	0.00	0.00
ATOM	3380	N	LEU	X	223	34.939	38.125	35.488	0.00	0.00
ATOM	3381	H	LEU	X	223	34.796	37.589	34.643	0.00	0.00
ATOM	3382	CA	LEU	X	223	35.600	37.419	36.552	0.00	0.00
ATOM	3383	HA	LEU	X	223	35.906	38.150	37.301	0.00	0.00
ATOM	3384	CB	LEU	X	223	34.537	36.460	37.123	0.00	0.00
ATOM	3385	HB2	LEU	X	223	34.132	35.811	36.346	0.00	0.00
ATOM	3386	HB3	LEU	X	223	35.069	35.828	37.834	0.00	0.00
ATOM	3387	CG	LEU	X	223	33.272	37.040	37.860	0.00	0.00
ATOM	3388	HG	LEU	X	223	33.625	37.818	38.537	0.00	0.00
ATOM	3389	CD1	LEU	X	223	32.166	37.682	36.962	0.00	0.00
ATOM	3390	HD11	LEU	X	223	31.213	37.765	37.485	0.00	0.00
ATOM	3391	HD12	LEU	X	223	32.372	38.640	36.485	0.00	0.00
ATOM	3392	HD13	LEU	X	223	31.924	37.092	36.077	0.00	0.00
ATOM	3393	CD2	LEU	X	223	32.755	35.870	38.689	0.00	0.00
ATOM	3394	HD21	LEU	X	223	32.566	34.993	38.071	0.00	0.00
ATOM	3395	HD22	LEU	X	223	33.477	35.615	39.465	0.00	0.00
ATOM	3396	HD23	LEU	X	223	31.893	36.242	39.243	0.00	0.00
ATOM	3397	C	LEU	X	223	36.898	36.624	36.115	0.00	0.00
ATOM	3398	O	LEU	X	223	36.922	35.702	35.344	0.00	0.00
ATOM	3399	N	GLN	X	224	38.049	37.000	36.648	0.00	0.00
ATOM	3400	H	GLN	X	224	38.012	37.758	37.314	0.00	0.00
ATOM	3401	CA	GLN	X	224	39.376	36.572	36.190	0.00	0.00
ATOM	3402	HA	GLN	X	224	39.216	35.856	35.383	0.00	0.00
ATOM	3403	CB	GLN	X	224	40.180	37.806	35.596	0.00	0.00
ATOM	3404	HB2	GLN	X	224	40.419	38.388	36.486	0.00	0.00
ATOM	3405	HB3	GLN	X	224	41.123	37.448	35.183	0.00	0.00
ATOM	3406	CG	GLN	X	224	39.334	38.677	34.597	0.00	0.00
ATOM	3407	HG2	GLN	X	224	38.830	38.038	33.872	0.00	0.00
ATOM	3408	HG3	GLN	X	224	38.522	39.173	35.130	0.00	0.00
ATOM	3409	CD	GLN	X	224	40.101	39.781	33.875	0.00	0.00
ATOM	3410	OE1	GLN	X	224	39.639	40.942	33.835	0.00	0.00
ATOM	3411	NE2	GLN	X	224	41.302	39.575	33.462	0.00	0.00
ATOM	3412	HE21	GLN	X	224	41.846	40.339	33.088	0.00	0.00
ATOM	3413	HE22	GLN	X	224	41.667	38.643	33.599	0.00	0.00
ATOM	3414	C	GLN	X	224	40.124	35.853	37.293	0.00	0.00
ATOM	3415	O	GLN	X	224	40.267	36.378	38.397	0.00	0.00
ATOM	3416	N	SER	X	225	40.574	34.653	37.067	0.00	0.00
ATOM	3417	H	SER	X	225	40.440	34.312	36.125	0.00	0.00
ATOM	3418	CA	SER	X	225	41.536	33.913	37.915	0.00	0.00
ATOM	3419	HA	SER	X	225	41.587	32.896	37.525	0.00	0.00
ATOM	3420	CB	SER	X	225	42.923	34.496	37.868	0.00	0.00
ATOM	3421	HB2	SER	X	225	42.855	35.582	37.924	0.00	0.00
ATOM	3422	HB3	SER	X	225	43.582	34.014	38.591	0.00	0.00
ATOM	3423	OG	SER	X	225	43.588	34.196	36.645	0.00	0.00
ATOM	3424	HG	SER	X	225	43.714	33.245	36.619	0.00	0.00
ATOM	3425	C	SER	X	225	41.000	33.636	39.328	0.00	0.00
ATOM	3426	O	SER	X	225	41.741	33.425	40.267	0.00	0.00
ATOM	3427	N	GLY	X	226	39.637	33.772	39.466	0.00	0.00
ATOM	3428	H	GLY	X	226	39.055	33.939	38.658	0.00	0.00
ATOM	3429	CA	GLY	X	226	38.835	33.429	40.634	0.00	0.00
ATOM	3430	HA2	GLY	X	226	39.334	32.626	41.081	0.00	0.00
ATOM	3431	HA3	GLY	X	226	38.749	34.216	41.401	0.00	0.00
ATOM	3432	C	GLY	X	226	37.383	32.929	40.383	0.00	0.00

ATOM	3433	O	GLY	X	226	36.986	32.701	39.229	0.00	0.00
ATOM	3434	N	ALA	X	227	36.589	32.718	41.462	0.00	0.00
ATOM	3435	H	ALA	X	227	36.972	32.847	42.388	0.00	0.00
ATOM	3436	CA	ALA	X	227	35.255	32.206	41.374	0.00	0.00
ATOM	3437	HA	ALA	X	227	34.752	32.808	40.617	0.00	0.00
ATOM	3438	CB	ALA	X	227	35.314	30.745	40.948	0.00	0.00
ATOM	3439	HB1	ALA	X	227	36.084	30.215	41.509	0.00	0.00
ATOM	3440	HB2	ALA	X	227	34.410	30.149	41.075	0.00	0.00
ATOM	3441	HB3	ALA	X	227	35.546	30.552	39.900	0.00	0.00
ATOM	3442	C	ALA	X	227	34.508	32.345	42.713	0.00	0.00
ATOM	3443	O	ALA	X	227	35.117	32.136	43.777	0.00	0.00
ATOM	3444	N	PRO	X	228	33.169	32.760	42.696	0.00	0.00
ATOM	3445	CD	PRO	X	228	32.455	33.317	41.541	0.00	0.00
ATOM	3446	HD2	PRO	X	228	32.597	32.699	40.654	0.00	0.00
ATOM	3447	HD3	PRO	X	228	32.586	34.375	41.316	0.00	0.00
ATOM	3448	CG	PRO	X	228	31.028	33.142	41.887	0.00	0.00
ATOM	3449	HG2	PRO	X	228	30.679	32.140	41.639	0.00	0.00
ATOM	3450	HG3	PRO	X	228	30.320	33.854	41.465	0.00	0.00
ATOM	3451	CB	PRO	X	228	31.002	33.248	43.379	0.00	0.00
ATOM	3452	HB2	PRO	X	228	30.175	32.686	43.811	0.00	0.00
ATOM	3453	HB3	PRO	X	228	30.875	34.258	43.770	0.00	0.00
ATOM	3454	CA	PRO	X	228	32.354	32.702	43.908	0.00	0.00
ATOM	3455	HA	PRO	X	228	32.773	33.463	44.567	0.00	0.00
ATOM	3456	C	PRO	X	228	32.243	31.313	44.471	0.00	0.00
ATOM	3457	O	PRO	X	228	32.213	31.234	45.643	0.00	0.00
ATOM	3458	N	ASN	X	229	32.262	30.291	43.629	0.00	0.00
ATOM	3459	H	ASN	X	229	32.180	30.547	42.655	0.00	0.00
ATOM	3460	CA	ASN	X	229	32.006	28.953	44.056	0.00	0.00
ATOM	3461	HA	ASN	X	229	31.437	29.017	44.983	0.00	0.00
ATOM	3462	CB	ASN	X	229	31.091	28.220	43.002	0.00	0.00
ATOM	3463	HB2	ASN	X	229	30.879	27.192	43.292	0.00	0.00
ATOM	3464	HB3	ASN	X	229	30.076	28.582	43.168	0.00	0.00
ATOM	3465	CG	ASN	X	229	31.415	28.417	41.508	0.00	0.00
ATOM	3466	OD1	ASN	X	229	31.628	29.555	41.041	0.00	0.00
ATOM	3467	ND2	ASN	X	229	31.643	27.345	40.791	0.00	0.00
ATOM	3468	HD21	ASN	X	229	31.971	27.490	39.847	0.00	0.00
ATOM	3469	HD22	ASN	X	229	31.608	26.450	41.257	0.00	0.00
ATOM	3470	C	ASN	X	229	33.188	28.108	44.313	0.00	0.00
ATOM	3471	O	ASN	X	229	33.076	26.924	44.510	0.00	0.00
ATOM	3472	N	GLY	X	230	34.404	28.732	44.326	0.00	0.00
ATOM	3473	H	GLY	X	230	34.470	29.733	44.213	0.00	0.00
ATOM	3474	CA	GLY	X	230	35.584	28.043	44.898	0.00	0.00
ATOM	3475	HA2	GLY	X	230	35.539	27.089	44.454	0.00	0.00
ATOM	3476	HA3	GLY	X	230	36.476	28.529	44.541	0.00	0.00
ATOM	3477	C	GLY	X	230	35.531	27.799	46.445	0.00	0.00
ATOM	3478	O	GLY	X	230	34.763	28.494	47.141	0.00	0.00
ATOM	3479	N	PRO	X	231	36.225	26.800	47.012	0.00	0.00
ATOM	3480	CD	PRO	X	231	37.153	25.933	46.384	0.00	0.00
ATOM	3481	HD2	PRO	X	231	37.987	26.490	45.959	0.00	0.00
ATOM	3482	HD3	PRO	X	231	36.646	25.345	45.619	0.00	0.00
ATOM	3483	CG	PRO	X	231	37.697	24.918	47.420	0.00	0.00
ATOM	3484	HG2	PRO	X	231	38.693	25.176	47.781	0.00	0.00
ATOM	3485	HG3	PRO	X	231	37.661	23.905	47.019	0.00	0.00
ATOM	3486	CB	PRO	X	231	36.549	24.962	48.502	0.00	0.00
ATOM	3487	HB2	PRO	X	231	36.729	24.761	49.558	0.00	0.00
ATOM	3488	HB3	PRO	X	231	35.809	24.261	48.116	0.00	0.00
ATOM	3489	CA	PRO	X	231	35.913	26.325	48.348	0.00	0.00
ATOM	3490	HA	PRO	X	231	34.838	26.175	48.446	0.00	0.00
ATOM	3491	C	PRO	X	231	36.425	27.264	49.411	0.00	0.00
ATOM	3492	O	PRO	X	231	35.965	27.206	50.535	0.00	0.00
ATOM	3493	N	TRP	X	232	37.521	28.054	49.154	0.00	0.00
ATOM	3494	H	TRP	X	232	37.992	27.900	48.274	0.00	0.00
ATOM	3495	CA	TRP	X	232	38.205	29.018	50.071	0.00	0.00
ATOM	3496	HA	TRP	X	232	38.403	28.570	51.045	0.00	0.00
ATOM	3497	CB	TRP	X	232	39.680	29.336	49.519	0.00	0.00
ATOM	3498	HB2	TRP	X	232	40.135	30.193	50.016	0.00	0.00
ATOM	3499	HB3	TRP	X	232	40.313	28.503	49.821	0.00	0.00
ATOM	3500	CG	TRP	X	232	39.636	29.645	48.008	0.00	0.00
ATOM	3501	CD1	TRP	X	232	39.810	28.672	47.042	0.00	0.00
ATOM	3502	HD1	TRP	X	232	39.950	27.627	47.276	0.00	0.00

ATOM	3503	NE1	TRP	X	232	39.630	29.245	45.781	0.00	0.00
ATOM	3504	HE1	TRP	X	232	39.493	28.667	44.964	0.00	0.00
ATOM	3505	CE2	TRP	X	232	39.432	30.604	45.892	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	39.344	31.650	44.953	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	39.493	31.519	43.892	0.00	0.00
ATOM	3508	CH2	TRP	X	232	39.023	32.958	45.348	0.00	0.00
ATOM	3509	HH2	TRP	X	232	38.920	33.750	44.620	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	38.857	33.181	46.712	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	38.691	34.195	47.043	0.00	0.00
ATOM	3512	CE3	TRP	X	232	39.189	32.253	47.696	0.00	0.00
ATOM	3513	HE3	TRP	X	232	39.282	32.629	48.704	0.00	0.00
ATOM	3514	CD2	TRP	X	232	39.396	30.887	47.314	0.00	0.00
ATOM	3515	C	TRP	X	232	37.322	30.345	50.179	0.00	0.00
ATOM	3516	O	TRP	X	232	37.717	31.267	50.939	0.00	0.00
ATOM	3517	N	ALA	X	233	36.261	30.566	49.426	0.00	0.00
ATOM	3518	H	ALA	X	233	35.781	29.832	48.924	0.00	0.00
ATOM	3519	CA	ALA	X	233	35.677	31.910	49.333	0.00	0.00
ATOM	3520	HA	ALA	X	233	36.417	32.709	49.384	0.00	0.00
ATOM	3521	CB	ALA	X	233	34.933	31.962	47.955	0.00	0.00
ATOM	3522	HB1	ALA	X	233	34.053	31.319	47.965	0.00	0.00
ATOM	3523	HB2	ALA	X	233	34.528	32.954	47.754	0.00	0.00
ATOM	3524	HB3	ALA	X	233	35.570	31.501	47.201	0.00	0.00
ATOM	3525	C	ALA	X	233	34.602	32.284	50.326	0.00	0.00
ATOM	3526	O	ALA	X	233	34.230	33.439	50.336	0.00	0.00
ATOM	3527	N	THR	X	234	34.013	31.301	51.068	0.00	0.00
ATOM	3528	H	THR	X	234	34.396	30.367	51.039	0.00	0.00
ATOM	3529	CA	THR	X	234	32.771	31.573	51.932	0.00	0.00
ATOM	3530	HA	THR	X	234	32.862	32.559	52.387	0.00	0.00
ATOM	3531	CB	THR	X	234	31.493	31.301	51.252	0.00	0.00
ATOM	3532	HB	THR	X	234	31.417	30.235	51.039	0.00	0.00
ATOM	3533	CG2	THR	X	234	30.265	31.721	52.051	0.00	0.00
ATOM	3534	HG21	THR	X	234	30.130	31.057	52.905	0.00	0.00
ATOM	3535	HG22	THR	X	234	30.298	32.786	52.281	0.00	0.00
ATOM	3536	HG23	THR	X	234	29.420	31.529	51.390	0.00	0.00
ATOM	3537	OG1	THR	X	234	31.365	31.961	50.017	0.00	0.00
ATOM	3538	HG1	THR	X	234	31.899	32.744	50.172	0.00	0.00
ATOM	3539	C	THR	X	234	32.943	30.659	53.083	0.00	0.00
ATOM	3540	O	THR	X	234	33.325	29.525	52.861	0.00	0.00
ATOM	3541	N	VAL	X	235	32.673	31.192	54.333	0.00	0.00
ATOM	3542	H	VAL	X	235	32.562	32.194	54.387	0.00	0.00
ATOM	3543	CA	VAL	X	235	32.641	30.419	55.593	0.00	0.00
ATOM	3544	HA	VAL	X	235	32.654	29.382	55.257	0.00	0.00
ATOM	3545	CB	VAL	X	235	33.923	30.584	56.417	0.00	0.00
ATOM	3546	HB	VAL	X	235	34.727	30.526	55.683	0.00	0.00
ATOM	3547	CG1	VAL	X	235	34.016	31.921	57.210	0.00	0.00
ATOM	3548	HG11	VAL	X	235	33.292	31.858	58.023	0.00	0.00
ATOM	3549	HG12	VAL	X	235	35.044	32.089	57.532	0.00	0.00
ATOM	3550	HG13	VAL	X	235	33.729	32.836	56.691	0.00	0.00
ATOM	3551	CG2	VAL	X	235	34.229	29.309	57.307	0.00	0.00
ATOM	3552	HG21	VAL	X	235	33.329	28.976	57.823	0.00	0.00
ATOM	3553	HG22	VAL	X	235	34.624	28.529	56.655	0.00	0.00
ATOM	3554	HG23	VAL	X	235	34.973	29.502	58.080	0.00	0.00
ATOM	3555	C	VAL	X	235	31.310	30.660	56.384	0.00	0.00
ATOM	3556	O	VAL	X	235	30.529	31.531	56.107	0.00	0.00
ATOM	3557	N	GLY	X	236	30.962	29.846	57.366	0.00	0.00
ATOM	3558	H	GLY	X	236	31.613	29.077	57.436	0.00	0.00
ATOM	3559	CA	GLY	X	236	29.860	30.040	58.305	0.00	0.00
ATOM	3560	HA2	GLY	X	236	29.101	30.616	57.753	0.00	0.00
ATOM	3561	HA3	GLY	X	236	29.437	29.139	58.698	0.00	0.00
ATOM	3562	C	GLY	X	236	30.082	30.916	59.613	0.00	0.00
ATOM	3563	O	GLY	X	236	31.250	31.015	60.019	0.00	0.00
ATOM	3564	N	MET	X	237	28.973	31.374	60.234	0.00	0.00
ATOM	3565	H	MET	X	237	28.115	30.991	59.864	0.00	0.00
ATOM	3566	CA	MET	X	237	28.932	32.076	61.467	0.00	0.00
ATOM	3567	HA	MET	X	237	29.459	33.030	61.458	0.00	0.00
ATOM	3568	CB	MET	X	237	27.531	32.415	61.992	0.00	0.00
ATOM	3569	HB2	MET	X	237	26.951	31.493	62.001	0.00	0.00
ATOM	3570	HB3	MET	X	237	27.650	32.714	63.033	0.00	0.00
ATOM	3571	CG	MET	X	237	26.748	33.381	61.108	0.00	0.00
ATOM	3572	HG2	MET	X	237	26.883	33.110	60.061	0.00	0.00

ATOM	3573	HG3	MET	X	237	25.690	33.289	61.354	0.00	0.00
ATOM	3574	SD	MET	X	237	27.273	35.122	61.130	0.00	0.00
ATOM	3575	CE	MET	X	237	26.326	35.751	59.766	0.00	0.00
ATOM	3576	HE1	MET	X	237	25.249	35.819	59.917	0.00	0.00
ATOM	3577	HE2	MET	X	237	26.623	36.792	59.644	0.00	0.00
ATOM	3578	HE3	MET	X	237	26.707	35.110	58.970	0.00	0.00
ATOM	3579	C	MET	X	237	29.713	31.366	62.574	0.00	0.00
ATOM	3580	O	MET	X	237	30.304	32.060	63.377	0.00	0.00
ATOM	3581	N	GLY	X	238	29.655	30.023	62.679	0.00	0.00
ATOM	3582	H	GLY	X	238	29.146	29.530	61.959	0.00	0.00
ATOM	3583	CA	GLY	X	238	30.277	29.280	63.770	0.00	0.00
ATOM	3584	HA2	GLY	X	238	29.764	29.588	64.607	0.00	0.00
ATOM	3585	HA3	GLY	X	238	29.983	28.255	63.710	0.00	0.00
ATOM	3586	C	GLY	X	238	31.830	29.462	63.774	0.00	0.00
ATOM	3587	O	GLY	X	238	32.417	29.757	64.825	0.00	0.00
ATOM	3588	N	GLU	X	239	32.451	29.298	62.587	0.00	0.00
ATOM	3589	H	GLU	X	239	31.865	29.020	61.813	0.00	0.00
ATOM	3590	CA	GLU	X	239	33.888	29.541	62.387	0.00	0.00
ATOM	3591	HA	GLU	X	239	34.365	28.910	63.136	0.00	0.00
ATOM	3592	CB	GLU	X	239	34.439	28.998	61.072	0.00	0.00
ATOM	3593	HB2	GLU	X	239	33.591	28.996	60.387	0.00	0.00
ATOM	3594	HB3	GLU	X	239	35.231	29.681	60.765	0.00	0.00
ATOM	3595	CG	GLU	X	239	35.067	27.595	61.115	0.00	0.00
ATOM	3596	HG2	GLU	X	239	34.361	26.828	61.435	0.00	0.00
ATOM	3597	HG3	GLU	X	239	35.409	27.218	60.151	0.00	0.00
ATOM	3598	CD	GLU	X	239	36.345	27.511	62.020	0.00	0.00
ATOM	3599	OE1	GLU	X	239	37.398	28.102	61.722	0.00	0.00
ATOM	3600	OE2	GLU	X	239	36.332	26.861	63.079	0.00	0.00
ATOM	3601	C	GLU	X	239	34.270	31.040	62.576	0.00	0.00
ATOM	3602	O	GLU	X	239	35.255	31.318	63.201	0.00	0.00
ATOM	3603	N	ALA	X	240	33.452	31.982	62.096	0.00	0.00
ATOM	3604	H	ALA	X	240	32.666	31.666	61.545	0.00	0.00
ATOM	3605	CA	ALA	X	240	33.555	33.466	62.389	0.00	0.00
ATOM	3606	HA	ALA	X	240	34.477	33.851	61.952	0.00	0.00
ATOM	3607	CB	ALA	X	240	32.500	34.154	61.557	0.00	0.00
ATOM	3608	HB1	ALA	X	240	31.569	33.676	61.862	0.00	0.00
ATOM	3609	HB2	ALA	X	240	32.362	35.204	61.815	0.00	0.00
ATOM	3610	HB3	ALA	X	240	32.733	34.061	60.496	0.00	0.00
ATOM	3611	C	ALA	X	240	33.567	33.828	63.872	0.00	0.00
ATOM	3612	O	ALA	X	240	34.507	34.493	64.341	0.00	0.00
ATOM	3613	N	ARG	X	241	32.636	33.268	64.620	0.00	0.00
ATOM	3614	H	ARG	X	241	31.882	32.741	64.204	0.00	0.00
ATOM	3615	CA	ARG	X	241	32.623	33.375	66.081	0.00	0.00
ATOM	3616	HA	ARG	X	241	32.594	34.418	66.396	0.00	0.00
ATOM	3617	CB	ARG	X	241	31.441	32.729	66.634	0.00	0.00
ATOM	3618	HB2	ARG	X	241	30.527	33.132	66.198	0.00	0.00
ATOM	3619	HB3	ARG	X	241	31.547	31.660	66.448	0.00	0.00
ATOM	3620	CG	ARG	X	241	31.311	32.827	68.108	0.00	0.00
ATOM	3621	HG2	ARG	X	241	32.223	32.506	68.610	0.00	0.00
ATOM	3622	HG3	ARG	X	241	31.239	33.904	68.260	0.00	0.00
ATOM	3623	CD	ARG	X	241	30.093	32.029	68.632	0.00	0.00
ATOM	3624	HD2	ARG	X	241	29.955	32.258	69.688	0.00	0.00
ATOM	3625	HD3	ARG	X	241	29.179	32.398	68.166	0.00	0.00
ATOM	3626	NE	ARG	X	241	30.295	30.577	68.551	0.00	0.00
ATOM	3627	HE	ARG	X	241	31.249	30.246	68.527	0.00	0.00
ATOM	3628	CZ	ARG	X	241	29.428	29.589	68.642	0.00	0.00
ATOM	3629	NH1	ARG	X	241	28.182	29.776	68.887	0.00	0.00
ATOM	3630	HH11	ARG	X	241	27.798	30.661	69.188	0.00	0.00
ATOM	3631	HH12	ARG	X	241	27.566	28.980	68.976	0.00	0.00
ATOM	3632	NH2	ARG	X	241	29.723	28.363	68.383	0.00	0.00
ATOM	3633	HH21	ARG	X	241	30.603	28.120	67.950	0.00	0.00
ATOM	3634	HH22	ARG	X	241	28.914	27.761	68.439	0.00	0.00
ATOM	3635	C	ARG	X	241	33.889	32.807	66.720	0.00	0.00
ATOM	3636	O	ARG	X	241	34.361	33.575	67.580	0.00	0.00
ATOM	3637	N	ARG	X	242	34.363	31.620	66.340	0.00	0.00
ATOM	3638	H	ARG	X	242	33.733	31.037	65.809	0.00	0.00
ATOM	3639	CA	ARG	X	242	35.575	30.940	66.953	0.00	0.00
ATOM	3640	HA	ARG	X	242	35.461	30.996	68.035	0.00	0.00
ATOM	3641	CB	ARG	X	242	35.797	29.487	66.444	0.00	0.00
ATOM	3642	HB2	ARG	X	242	34.940	28.855	66.681	0.00	0.00

ATOM	3643	HB3	ARG	X	242	35.961	29.444	65.367	0.00	0.00
ATOM	3644	CG	ARG	X	242	37.086	28.822	67.076	0.00	0.00
ATOM	3645	HG2	ARG	X	242	37.887	29.553	66.965	0.00	0.00
ATOM	3646	HG3	ARG	X	242	36.906	28.643	68.136	0.00	0.00
ATOM	3647	CD	ARG	X	242	37.558	27.546	66.342	0.00	0.00
ATOM	3648	HD2	ARG	X	242	38.339	27.015	66.887	0.00	0.00
ATOM	3649	HD3	ARG	X	242	36.710	26.892	66.138	0.00	0.00
ATOM	3650	NE	ARG	X	242	38.062	27.758	64.995	0.00	0.00
ATOM	3651	HE	ARG	X	242	37.535	27.377	64.223	0.00	0.00
ATOM	3652	CZ	ARG	X	242	39.219	28.338	64.711	0.00	0.00
ATOM	3653	NH1	ARG	X	242	39.993	28.907	65.612	0.00	0.00
ATOM	3654	HH11	ARG	X	242	39.606	29.048	66.534	0.00	0.00
ATOM	3655	HH12	ARG	X	242	40.957	29.163	65.451	0.00	0.00
ATOM	3656	NH2	ARG	X	242	39.696	28.290	63.533	0.00	0.00
ATOM	3657	HH21	ARG	X	242	39.145	28.162	62.696	0.00	0.00
ATOM	3658	HH22	ARG	X	242	40.680	28.499	63.447	0.00	0.00
ATOM	3659	C	ARG	X	242	36.782	31.844	66.775	0.00	0.00
ATOM	3660	O	ARG	X	242	37.401	32.240	67.769	0.00	0.00
ATOM	3661	N	ARG	X	243	37.089	32.214	65.518	0.00	0.00
ATOM	3662	H	ARG	X	243	36.497	31.893	64.765	0.00	0.00
ATOM	3663	CA	ARG	X	243	38.242	32.993	65.127	0.00	0.00
ATOM	3664	HA	ARG	X	243	39.130	32.466	65.474	0.00	0.00
ATOM	3665	CB	ARG	X	243	38.312	33.138	63.603	0.00	0.00
ATOM	3666	HB2	ARG	X	243	37.374	33.587	63.277	0.00	0.00
ATOM	3667	HB3	ARG	X	243	39.019	33.895	63.263	0.00	0.00
ATOM	3668	CG	ARG	X	243	38.612	31.810	62.830	0.00	0.00
ATOM	3669	HG2	ARG	X	243	39.569	31.442	63.198	0.00	0.00
ATOM	3670	HG3	ARG	X	243	37.871	31.077	63.149	0.00	0.00
ATOM	3671	CD	ARG	X	243	38.514	32.020	61.360	0.00	0.00
ATOM	3672	HD2	ARG	X	243	37.815	32.797	61.053	0.00	0.00
ATOM	3673	HD3	ARG	X	243	39.484	32.313	60.958	0.00	0.00
ATOM	3674	NE	ARG	X	243	38.203	30.705	60.714	0.00	0.00
ATOM	3675	HE	ARG	X	243	37.790	30.007	61.316	0.00	0.00
ATOM	3676	CZ	ARG	X	243	38.203	30.417	59.414	0.00	0.00
ATOM	3677	NH1	ARG	X	243	38.629	31.223	58.437	0.00	0.00
ATOM	3678	HH11	ARG	X	243	38.855	32.185	58.648	0.00	0.00
ATOM	3679	HH12	ARG	X	243	38.599	30.854	57.497	0.00	0.00
ATOM	3680	NH2	ARG	X	243	37.856	29.222	59.105	0.00	0.00
ATOM	3681	HH21	ARG	X	243	37.585	28.523	59.781	0.00	0.00
ATOM	3682	HH22	ARG	X	243	37.795	28.988	58.124	0.00	0.00
ATOM	3683	C	ARG	X	243	38.165	34.352	65.819	0.00	0.00
ATOM	3684	O	ARG	X	243	39.070	34.792	66.468	0.00	0.00
ATOM	3685	N	ALA	X	244	36.908	34.958	65.746	0.00	0.00
ATOM	3686	H	ALA	X	244	36.163	34.682	65.124	0.00	0.00
ATOM	3687	CA	ALA	X	244	36.597	36.180	66.527	0.00	0.00
ATOM	3688	HA	ALA	X	244	37.225	36.952	66.084	0.00	0.00
ATOM	3689	CB	ALA	X	244	35.199	36.616	66.257	0.00	0.00
ATOM	3690	HB1	ALA	X	244	35.096	36.843	65.196	0.00	0.00
ATOM	3691	HB2	ALA	X	244	34.402	35.934	66.553	0.00	0.00
ATOM	3692	HB3	ALA	X	244	35.106	37.583	66.752	0.00	0.00
ATOM	3693	C	ALA	X	244	36.831	36.160	68.039	0.00	0.00
ATOM	3694	O	ALA	X	244	37.433	37.085	68.588	0.00	0.00
ATOM	3695	N	THR	X	245	36.499	35.018	68.667	0.00	0.00
ATOM	3696	H	THR	X	245	35.980	34.354	68.110	0.00	0.00
ATOM	3697	CA	THR	X	245	36.569	34.854	70.165	0.00	0.00
ATOM	3698	HA	THR	X	245	36.005	35.705	70.546	0.00	0.00
ATOM	3699	CB	THR	X	245	35.673	33.691	70.454	0.00	0.00
ATOM	3700	HB	THR	X	245	35.961	32.799	69.897	0.00	0.00
ATOM	3701	CG2	THR	X	245	35.649	33.231	71.901	0.00	0.00
ATOM	3702	HG21	THR	X	245	34.757	32.619	72.029	0.00	0.00
ATOM	3703	HG22	THR	X	245	36.521	32.645	72.192	0.00	0.00
ATOM	3704	HG23	THR	X	245	35.540	34.092	72.560	0.00	0.00
ATOM	3705	OG1	THR	X	245	34.364	34.080	70.195	0.00	0.00
ATOM	3706	HG1	THR	X	245	34.287	34.099	69.238	0.00	0.00
ATOM	3707	C	THR	X	245	37.975	34.725	70.748	0.00	0.00
ATOM	3708	O	THR	X	245	38.342	35.386	71.700	0.00	0.00
ATOM	3709	N	GLN	X	246	38.814	33.926	70.033	0.00	0.00
ATOM	3710	H	GLN	X	246	38.441	33.357	69.287	0.00	0.00
ATOM	3711	CA	GLN	X	246	40.250	33.750	70.289	0.00	0.00
ATOM	3712	HA	GLN	X	246	40.450	33.596	71.349	0.00	0.00

ATOM	3713	CB	GLN	X	246	40.678	32.544	69.479	0.00	0.00
ATOM	3714	HB2	GLN	X	246	40.311	32.670	68.460	0.00	0.00
ATOM	3715	HB3	GLN	X	246	41.766	32.481	69.448	0.00	0.00
ATOM	3716	CG	GLN	X	246	40.103	31.208	69.935	0.00	0.00
ATOM	3717	HG2	GLN	X	246	40.183	31.046	71.010	0.00	0.00
ATOM	3718	HG3	GLN	X	246	39.069	31.278	69.597	0.00	0.00
ATOM	3719	CD	GLN	X	246	40.681	30.001	69.260	0.00	0.00
ATOM	3720	OE1	GLN	X	246	40.266	29.522	68.228	0.00	0.00
ATOM	3721	NE2	GLN	X	246	41.755	29.440	69.784	0.00	0.00
ATOM	3722	HE21	GLN	X	246	42.079	28.614	69.300	0.00	0.00
ATOM	3723	HE22	GLN	X	246	42.056	29.641	70.727	0.00	0.00
ATOM	3724	C	GLN	X	246	41.087	34.955	69.875	0.00	0.00
ATOM	3725	O	GLN	X	246	42.051	35.207	70.591	0.00	0.00
ATOM	3726	N	LEU	X	247	40.661	35.709	68.907	0.00	0.00
ATOM	3727	H	LEU	X	247	39.959	35.368	68.266	0.00	0.00
ATOM	3728	CA	LEU	X	247	41.122	37.079	68.641	0.00	0.00
ATOM	3729	HA	LEU	X	247	42.201	36.956	68.552	0.00	0.00
ATOM	3730	CB	LEU	X	247	40.622	37.511	67.230	0.00	0.00
ATOM	3731	HB2	LEU	X	247	40.690	36.594	66.644	0.00	0.00
ATOM	3732	HB3	LEU	X	247	39.550	37.696	67.300	0.00	0.00
ATOM	3733	CG	LEU	X	247	41.330	38.562	66.436	0.00	0.00
ATOM	3734	HG	LEU	X	247	41.306	39.547	66.902	0.00	0.00
ATOM	3735	CD1	LEU	X	247	42.763	38.234	66.171	0.00	0.00
ATOM	3736	HD11	LEU	X	247	43.190	38.971	65.491	0.00	0.00
ATOM	3737	HD12	LEU	X	247	43.205	38.235	67.168	0.00	0.00
ATOM	3738	HD13	LEU	X	247	42.740	37.290	65.627	0.00	0.00
ATOM	3739	CD2	LEU	X	247	40.500	38.840	65.150	0.00	0.00
ATOM	3740	HD21	LEU	X	247	39.626	39.474	65.295	0.00	0.00
ATOM	3741	HD22	LEU	X	247	41.097	39.433	64.457	0.00	0.00
ATOM	3742	HD23	LEU	X	247	40.243	37.935	64.599	0.00	0.00
ATOM	3743	C	LEU	X	247	40.850	37.994	69.772	0.00	0.00
ATOM	3744	O	LEU	X	247	41.756	38.668	70.227	0.00	0.00
ATOM	3745	N	ALA	X	248	39.609	37.993	70.257	0.00	0.00
ATOM	3746	H	ALA	X	248	38.879	37.471	69.793	0.00	0.00
ATOM	3747	CA	ALA	X	248	39.228	38.696	71.449	0.00	0.00
ATOM	3748	HA	ALA	X	248	39.481	39.750	71.332	0.00	0.00
ATOM	3749	CB	ALA	X	248	37.681	38.606	71.643	0.00	0.00
ATOM	3750	HB1	ALA	X	248	37.366	37.650	72.061	0.00	0.00
ATOM	3751	HB2	ALA	X	248	37.286	39.336	72.349	0.00	0.00
ATOM	3752	HB3	ALA	X	248	37.313	38.842	70.644	0.00	0.00
ATOM	3753	C	ALA	X	248	40.092	38.318	72.630	0.00	0.00
ATOM	3754	O	ALA	X	248	40.656	39.230	73.207	0.00	0.00
ATOM	3755	N	HIE	X	249	40.314	37.126	73.037	0.00	0.00
ATOM	3756	H	HIE	X	249	39.748	36.474	72.514	0.00	0.00
ATOM	3757	CA	HIE	X	249	41.244	36.761	74.069	0.00	0.00
ATOM	3758	HA	HIE	X	249	40.896	37.215	74.997	0.00	0.00
ATOM	3759	CB	HIE	X	249	41.201	35.186	74.164	0.00	0.00
ATOM	3760	HB2	HIE	X	249	40.204	34.748	74.121	0.00	0.00
ATOM	3761	HB3	HIE	X	249	41.731	34.759	73.313	0.00	0.00
ATOM	3762	CG	HIE	X	249	41.819	34.594	75.435	0.00	0.00
ATOM	3763	ND1	HIE	X	249	41.382	34.494	76.744	0.00	0.00
ATOM	3764	CE1	HIE	X	249	42.365	33.844	77.391	0.00	0.00
ATOM	3765	HE1	HIE	X	249	42.243	33.581	78.432	0.00	0.00
ATOM	3766	NE2	HIE	X	249	43.324	33.409	76.591	0.00	0.00
ATOM	3767	HE2	HIE	X	249	44.195	33.010	76.909	0.00	0.00
ATOM	3768	CD2	HIE	X	249	43.064	34.026	75.397	0.00	0.00
ATOM	3769	HD2	HIE	X	249	43.717	33.908	74.545	0.00	0.00
ATOM	3770	C	HIE	X	249	42.660	37.298	73.760	0.00	0.00
ATOM	3771	O	HIE	X	249	43.248	37.742	74.671	0.00	0.00
ATOM	3772	N	LEU	X	250	43.188	37.231	72.511	0.00	0.00
ATOM	3773	H	LEU	X	250	42.785	36.586	71.847	0.00	0.00
ATOM	3774	CA	LEU	X	250	44.540	37.725	72.190	0.00	0.00
ATOM	3775	HA	LEU	X	250	45.229	37.281	72.909	0.00	0.00
ATOM	3776	CB	LEU	X	250	44.937	37.184	70.800	0.00	0.00
ATOM	3777	HB2	LEU	X	250	44.204	37.412	70.026	0.00	0.00
ATOM	3778	HB3	LEU	X	250	45.776	37.753	70.398	0.00	0.00
ATOM	3779	CG	LEU	X	250	45.328	35.771	70.642	0.00	0.00
ATOM	3780	HG	LEU	X	250	44.625	35.123	71.166	0.00	0.00
ATOM	3781	CD1	LEU	X	250	45.292	35.438	69.114	0.00	0.00
ATOM	3782	HD11	LEU	X	250	46.086	35.932	68.553	0.00	0.00

ATOM	3783	HD12	LEU	X	250	45.423	34.361	69.005	0.00	0.00
ATOM	3784	HD13	LEU	X	250	44.289	35.588	68.715	0.00	0.00
ATOM	3785	CD2	LEU	X	250	46.723	35.430	71.165	0.00	0.00
ATOM	3786	HD21	LEU	X	250	47.344	36.168	70.658	0.00	0.00
ATOM	3787	HD22	LEU	X	250	46.789	35.672	72.226	0.00	0.00
ATOM	3788	HD23	LEU	X	250	47.117	34.433	70.966	0.00	0.00
ATOM	3789	C	LEU	X	250	44.717	39.204	72.271	0.00	0.00
ATOM	3790	O	LEU	X	250	45.832	39.608	72.609	0.00	0.00
ATOM	3791	N	VAL	X	251	43.672	40.018	71.945	0.00	0.00
ATOM	3792	H	VAL	X	251	42.884	39.606	71.466	0.00	0.00
ATOM	3793	CA	VAL	X	251	43.657	41.526	72.139	0.00	0.00
ATOM	3794	HA	VAL	X	251	44.677	41.882	71.992	0.00	0.00
ATOM	3795	CB	VAL	X	251	42.778	42.329	71.130	0.00	0.00
ATOM	3796	HB	VAL	X	251	42.960	43.400	71.212	0.00	0.00
ATOM	3797	CG1	VAL	X	251	43.238	41.965	69.695	0.00	0.00
ATOM	3798	HG11	VAL	X	251	43.209	40.885	69.553	0.00	0.00
ATOM	3799	HG12	VAL	X	251	42.649	42.386	68.879	0.00	0.00
ATOM	3800	HG13	VAL	X	251	44.263	42.329	69.635	0.00	0.00
ATOM	3801	CG2	VAL	X	251	41.319	42.052	71.372	0.00	0.00
ATOM	3802	HG21	VAL	X	251	41.038	41.015	71.186	0.00	0.00
ATOM	3803	HG22	VAL	X	251	41.030	42.241	72.406	0.00	0.00
ATOM	3804	HG23	VAL	X	251	40.724	42.780	70.822	0.00	0.00
ATOM	3805	C	VAL	X	251	43.377	41.970	73.608	0.00	0.00
ATOM	3806	O	VAL	X	251	43.684	43.118	73.944	0.00	0.00
ATOM	3807	N	GLY	X	252	42.827	41.135	74.492	0.00	0.00
ATOM	3808	H	GLY	X	252	42.458	40.308	74.045	0.00	0.00
ATOM	3809	CA	GLY	X	252	42.414	41.443	75.863	0.00	0.00
ATOM	3810	HA2	GLY	X	252	42.813	40.591	76.465	0.00	0.00
ATOM	3811	HA3	GLY	X	252	42.867	42.370	76.333	0.00	0.00
ATOM	3812	C	GLY	X	252	40.910	41.506	76.119	0.00	0.00
ATOM	3813	O	GLY	X	252	40.457	42.198	77.003	0.00	0.00
ATOM	3814	N	CYX	X	253	40.079	40.843	75.324	0.00	0.00
ATOM	3815	H	CYX	X	253	40.527	40.255	74.635	0.00	0.00
ATOM	3816	CA	CYX	X	253	38.593	40.907	75.439	0.00	0.00
ATOM	3817	HA	CYX	X	253	38.400	41.621	76.239	0.00	0.00
ATOM	3818	CB	CYX	X	253	38.212	41.459	74.046	0.00	0.00
ATOM	3819	HB2	CYX	X	253	38.455	40.824	73.194	0.00	0.00
ATOM	3820	HB3	CYX	X	253	37.128	41.437	73.937	0.00	0.00
ATOM	3821	SG	CYX	X	253	38.770	43.170	73.752	0.00	0.00
ATOM	3822	C	CYX	X	253	37.987	39.518	75.719	0.00	0.00
ATOM	3823	O	CYX	X	253	38.013	38.691	74.845	0.00	0.00
ATOM	3824	N	PRO	X	254	37.272	39.306	76.842	0.00	0.00
ATOM	3825	CD	PRO	X	254	36.389	38.131	76.956	0.00	0.00
ATOM	3826	HD2	PRO	X	254	36.869	37.203	76.643	0.00	0.00
ATOM	3827	HD3	PRO	X	254	35.506	38.252	76.329	0.00	0.00
ATOM	3828	CG	PRO	X	254	35.999	38.096	78.441	0.00	0.00
ATOM	3829	HG2	PRO	X	254	36.780	37.566	78.986	0.00	0.00
ATOM	3830	HG3	PRO	X	254	35.005	37.676	78.593	0.00	0.00
ATOM	3831	CB	PRO	X	254	36.070	39.567	78.799	0.00	0.00
ATOM	3832	HB2	PRO	X	254	36.307	39.718	79.852	0.00	0.00
ATOM	3833	HB3	PRO	X	254	35.148	40.054	78.482	0.00	0.00
ATOM	3834	CA	PRO	X	254	37.236	40.125	77.990	0.00	0.00
ATOM	3835	HA	PRO	X	254	36.971	41.123	77.642	0.00	0.00
ATOM	3836	C	PRO	X	254	38.627	40.132	78.732	0.00	0.00
ATOM	3837	O	PRO	X	254	39.280	39.079	78.693	0.00	0.00
ATOM	3838	N	PRO	X	255	38.926	41.162	79.488	0.00	0.00
ATOM	3839	CD	PRO	X	255	38.150	42.401	79.650	0.00	0.00
ATOM	3840	HD2	PRO	X	255	37.085	42.319	79.867	0.00	0.00
ATOM	3841	HD3	PRO	X	255	38.203	42.824	78.647	0.00	0.00
ATOM	3842	CG	PRO	X	255	38.786	43.249	80.682	0.00	0.00
ATOM	3843	HG2	PRO	X	255	38.237	43.190	81.622	0.00	0.00
ATOM	3844	HG3	PRO	X	255	38.934	44.284	80.373	0.00	0.00
ATOM	3845	CB	PRO	X	255	40.183	42.593	80.970	0.00	0.00
ATOM	3846	HB2	PRO	X	255	40.489	42.657	82.014	0.00	0.00
ATOM	3847	HB3	PRO	X	255	40.947	43.075	80.360	0.00	0.00
ATOM	3848	CA	PRO	X	255	40.056	41.135	80.476	0.00	0.00
ATOM	3849	HA	PRO	X	255	40.872	40.863	79.807	0.00	0.00
ATOM	3850	C	PRO	X	255	39.907	40.083	81.536	0.00	0.00
ATOM	3851	O	PRO	X	255	38.817	39.976	82.033	0.00	0.00
ATOM	3852	N	GLY	X	256	40.864	39.240	81.719	0.00	0.00

ATOM	3853	H	GLY	X	256	41.632	39.277	81.064	0.00	0.00
ATOM	3854	CA	GLY	X	256	40.892	38.145	82.769	0.00	0.00
ATOM	3855	HA2	GLY	X	256	41.913	37.839	83.102	0.00	0.00
ATOM	3856	HA3	GLY	X	256	40.462	38.534	83.700	0.00	0.00
ATOM	3857	C	GLY	X	256	40.144	36.836	82.404	0.00	0.00
ATOM	3858	O	GLY	X	256	40.083	35.944	83.279	0.00	0.00
ATOM	3859	N	GLY	X	257	39.647	36.667	81.157	0.00	0.00
ATOM	3860	H	GLY	X	257	39.860	37.391	80.487	0.00	0.00
ATOM	3861	CA	GLY	X	257	39.018	35.393	80.756	0.00	0.00
ATOM	3862	HA2	GLY	X	257	39.661	34.519	81.021	0.00	0.00
ATOM	3863	HA3	GLY	X	257	38.061	35.178	81.220	0.00	0.00
ATOM	3864	C	GLY	X	257	38.694	35.333	79.258	0.00	0.00
ATOM	3865	O	GLY	X	257	39.219	36.146	78.454	0.00	0.00
ATOM	3866	N	THR	X	258	37.861	34.313	78.857	0.00	0.00
ATOM	3867	H	THR	X	258	37.508	33.704	79.581	0.00	0.00
ATOM	3868	CA	THR	X	258	37.473	34.186	77.439	0.00	0.00
ATOM	3869	HA	THR	X	258	37.929	34.921	76.776	0.00	0.00
ATOM	3870	CB	THR	X	258	37.930	32.772	76.966	0.00	0.00
ATOM	3871	HB	THR	X	258	37.363	32.069	77.575	0.00	0.00
ATOM	3872	CG2	THR	X	258	37.956	32.520	75.426	0.00	0.00
ATOM	3873	HG21	THR	X	258	38.202	31.463	75.326	0.00	0.00
ATOM	3874	HG22	THR	X	258	36.982	32.784	75.013	0.00	0.00
ATOM	3875	HG23	THR	X	258	38.642	33.194	74.913	0.00	0.00
ATOM	3876	OG1	THR	X	258	39.281	32.578	77.304	0.00	0.00
ATOM	3877	HG1	THR	X	258	39.832	33.334	77.090	0.00	0.00
ATOM	3878	C	THR	X	258	35.954	34.318	77.271	0.00	0.00
ATOM	3879	O	THR	X	258	35.253	33.836	78.118	0.00	0.00
ATOM	3880	N	GLY	X	259	35.457	34.887	76.163	0.00	0.00
ATOM	3881	H	GLY	X	259	36.208	35.076	75.515	0.00	0.00
ATOM	3882	CA	GLY	X	259	34.081	34.877	75.689	0.00	0.00
ATOM	3883	HA2	GLY	X	259	33.907	35.160	74.703	0.00	0.00
ATOM	3884	HA3	GLY	X	259	33.788	33.915	75.686	0.00	0.00
ATOM	3885	C	GLY	X	259	33.225	35.670	76.628	0.00	0.00
ATOM	3886	O	GLY	X	259	33.278	36.902	76.544	0.00	0.00
ATOM	3887	N	GLY	X	260	32.326	35.069	77.309	0.00	0.00
ATOM	3888	H	GLY	X	260	32.428	34.064	77.308	0.00	0.00
ATOM	3889	CA	GLY	X	260	31.267	35.677	78.152	0.00	0.00
ATOM	3890	HA2	GLY	X	260	30.978	34.988	78.885	0.00	0.00
ATOM	3891	HA3	GLY	X	260	31.538	36.678	78.467	0.00	0.00
ATOM	3892	C	GLY	X	260	30.048	35.911	77.300	0.00	0.00
ATOM	3893	O	GLY	X	260	29.814	35.327	76.231	0.00	0.00
ATOM	3894	N	ASN	X	261	29.284	36.921	77.689	0.00	0.00
ATOM	3895	H	ASN	X	261	29.196	37.063	78.685	0.00	0.00
ATOM	3896	CA	ASN	X	261	28.349	37.681	76.859	0.00	0.00
ATOM	3897	HA	ASN	X	261	27.501	37.029	76.650	0.00	0.00
ATOM	3898	CB	ASN	X	261	27.829	38.931	77.608	0.00	0.00
ATOM	3899	HB2	ASN	X	261	27.473	38.747	78.621	0.00	0.00
ATOM	3900	HB3	ASN	X	261	28.728	39.536	77.723	0.00	0.00
ATOM	3901	CG	ASN	X	261	26.762	39.559	76.730	0.00	0.00
ATOM	3902	OD1	ASN	X	261	26.849	40.702	76.256	0.00	0.00
ATOM	3903	ND2	ASN	X	261	25.731	38.875	76.498	0.00	0.00
ATOM	3904	HD21	ASN	X	261	24.973	39.356	76.036	0.00	0.00
ATOM	3905	HD22	ASN	X	261	25.714	37.963	76.931	0.00	0.00
ATOM	3906	C	ASN	X	261	28.991	38.139	75.542	0.00	0.00
ATOM	3907	O	ASN	X	261	30.035	38.868	75.632	0.00	0.00
ATOM	3908	N	ASP	X	262	28.368	37.855	74.442	0.00	0.00
ATOM	3909	H	ASP	X	262	27.589	37.214	74.486	0.00	0.00
ATOM	3910	CA	ASP	X	262	28.952	38.048	73.097	0.00	0.00
ATOM	3911	HA	ASP	X	262	29.971	37.680	72.978	0.00	0.00
ATOM	3912	CB	ASP	X	262	28.262	37.182	72.006	0.00	0.00
ATOM	3913	HB2	ASP	X	262	27.234	37.543	72.048	0.00	0.00
ATOM	3914	HB3	ASP	X	262	28.692	37.500	71.055	0.00	0.00
ATOM	3915	CG	ASP	X	262	28.341	35.649	72.207	0.00	0.00
ATOM	3916	OD1	ASP	X	262	27.250	35.050	72.221	0.00	0.00
ATOM	3917	OD2	ASP	X	262	29.441	35.049	72.205	0.00	0.00
ATOM	3918	C	ASP	X	262	28.947	39.484	72.620	0.00	0.00
ATOM	3919	O	ASP	X	262	29.820	39.868	71.842	0.00	0.00
ATOM	3920	N	THR	X	263	27.870	40.202	72.978	0.00	0.00
ATOM	3921	H	THR	X	263	27.154	39.767	73.542	0.00	0.00
ATOM	3922	CA	THR	X	263	27.761	41.626	72.718	0.00	0.00

ATOM	3923	HA	THR	X	263	27.868	41.822	71.651	0.00	0.00
ATOM	3924	CB	THR	X	263	26.464	42.121	73.188	0.00	0.00
ATOM	3925	HB	THR	X	263	26.273	41.695	74.173	0.00	0.00
ATOM	3926	CG2	THR	X	263	26.285	43.618	73.022	0.00	0.00
ATOM	3927	HG21	THR	X	263	26.866	44.158	73.769	0.00	0.00
ATOM	3928	HG22	THR	X	263	26.609	43.990	72.051	0.00	0.00
ATOM	3929	HG23	THR	X	263	25.225	43.820	73.177	0.00	0.00
ATOM	3930	OG1	THR	X	263	25.482	41.471	72.388	0.00	0.00
ATOM	3931	HG1	THR	X	263	25.447	40.534	72.596	0.00	0.00
ATOM	3932	C	THR	X	263	28.856	42.386	73.463	0.00	0.00
ATOM	3933	O	THR	X	263	29.631	43.120	72.827	0.00	0.00
ATOM	3934	N	GLU	X	264	29.031	42.112	74.726	0.00	0.00
ATOM	3935	H	GLU	X	264	28.372	41.416	75.043	0.00	0.00
ATOM	3936	CA	GLU	X	264	30.100	42.587	75.574	0.00	0.00
ATOM	3937	HA	GLU	X	264	30.021	43.674	75.605	0.00	0.00
ATOM	3938	CB	GLU	X	264	29.756	42.144	77.015	0.00	0.00
ATOM	3939	HB2	GLU	X	264	28.701	42.298	77.243	0.00	0.00
ATOM	3940	HB3	GLU	X	264	29.997	41.096	77.197	0.00	0.00
ATOM	3941	CG	GLU	X	264	30.589	42.929	78.131	0.00	0.00
ATOM	3942	HG2	GLU	X	264	31.642	42.799	77.882	0.00	0.00
ATOM	3943	HG3	GLU	X	264	30.471	44.011	78.078	0.00	0.00
ATOM	3944	CD	GLU	X	264	30.334	42.358	79.496	0.00	0.00
ATOM	3945	OE1	GLU	X	264	31.313	41.872	80.092	0.00	0.00
ATOM	3946	OE2	GLU	X	264	29.213	42.428	80.049	0.00	0.00
ATOM	3947	C	GLU	X	264	31.534	42.223	75.133	0.00	0.00
ATOM	3948	O	GLU	X	264	32.495	42.981	75.273	0.00	0.00
ATOM	3949	N	LEU	X	265	31.593	41.063	74.492	0.00	0.00
ATOM	3950	H	LEU	X	265	30.707	40.597	74.352	0.00	0.00
ATOM	3951	CA	LEU	X	265	32.690	40.624	73.675	0.00	0.00
ATOM	3952	HA	LEU	X	265	33.570	40.681	74.315	0.00	0.00
ATOM	3953	CB	LEU	X	265	32.553	39.132	73.381	0.00	0.00
ATOM	3954	HB2	LEU	X	265	32.244	38.567	74.261	0.00	0.00
ATOM	3955	HB3	LEU	X	265	31.710	38.966	72.711	0.00	0.00
ATOM	3956	CG	LEU	X	265	33.808	38.560	72.696	0.00	0.00
ATOM	3957	HG	LEU	X	265	34.751	38.906	73.120	0.00	0.00
ATOM	3958	CD1	LEU	X	265	33.699	37.042	72.810	0.00	0.00
ATOM	3959	HD11	LEU	X	265	33.485	36.850	73.862	0.00	0.00
ATOM	3960	HD12	LEU	X	265	32.840	36.752	72.206	0.00	0.00
ATOM	3961	HD13	LEU	X	265	34.613	36.503	72.559	0.00	0.00
ATOM	3962	CD2	LEU	X	265	33.790	38.777	71.171	0.00	0.00
ATOM	3963	HD21	LEU	X	265	32.776	38.497	70.884	0.00	0.00
ATOM	3964	HD22	LEU	X	265	34.016	39.814	70.926	0.00	0.00
ATOM	3965	HD23	LEU	X	265	34.438	38.142	70.566	0.00	0.00
ATOM	3966	C	LEU	X	265	33.002	41.566	72.530	0.00	0.00
ATOM	3967	O	LEU	X	265	34.059	42.178	72.509	0.00	0.00
ATOM	3968	N	VAL	X	266	32.023	41.752	71.592	0.00	0.00
ATOM	3969	H	VAL	X	266	31.223	41.135	71.579	0.00	0.00
ATOM	3970	CA	VAL	X	266	32.229	42.506	70.395	0.00	0.00
ATOM	3971	HA	VAL	X	266	33.177	42.184	69.963	0.00	0.00
ATOM	3972	CB	VAL	X	266	31.060	42.459	69.375	0.00	0.00
ATOM	3973	HB	VAL	X	266	30.135	42.753	69.870	0.00	0.00
ATOM	3974	CG1	VAL	X	266	31.325	43.378	68.235	0.00	0.00
ATOM	3975	HG11	VAL	X	266	31.144	44.410	68.537	0.00	0.00
ATOM	3976	HG12	VAL	X	266	32.232	43.111	67.694	0.00	0.00
ATOM	3977	HG13	VAL	X	266	30.637	43.230	67.403	0.00	0.00
ATOM	3978	CG2	VAL	X	266	30.861	41.028	68.801	0.00	0.00
ATOM	3979	HG21	VAL	X	266	30.004	41.058	68.128	0.00	0.00
ATOM	3980	HG22	VAL	X	266	31.690	40.645	68.206	0.00	0.00
ATOM	3981	HG23	VAL	X	266	30.483	40.340	69.557	0.00	0.00
ATOM	3982	C	VAL	X	266	32.390	44.038	70.807	0.00	0.00
ATOM	3983	O	VAL	X	266	33.014	44.736	70.043	0.00	0.00
ATOM	3984	N	ALA	X	267	31.902	44.445	71.980	0.00	0.00
ATOM	3985	H	ALA	X	267	31.302	43.793	72.464	0.00	0.00
ATOM	3986	CA	ALA	X	267	32.044	45.779	72.510	0.00	0.00
ATOM	3987	HA	ALA	X	267	31.812	46.459	71.691	0.00	0.00
ATOM	3988	CB	ALA	X	267	31.014	45.806	73.624	0.00	0.00
ATOM	3989	HB1	ALA	X	267	30.058	45.432	73.258	0.00	0.00
ATOM	3990	HB2	ALA	X	267	31.365	45.193	74.454	0.00	0.00
ATOM	3991	HB3	ALA	X	267	30.750	46.833	73.877	0.00	0.00
ATOM	3992	C	ALA	X	267	33.518	46.157	72.877	0.00	0.00

ATOM	3993	O	ALA	X	267	33.924	47.282	72.589	0.00	0.00
ATOM	3994	N	CYX	X	268	34.255	45.192	73.364	0.00	0.00
ATOM	3995	H	CYX	X	268	33.864	44.281	73.557	0.00	0.00
ATOM	3996	CA	CYX	X	268	35.644	45.354	73.694	0.00	0.00
ATOM	3997	HA	CYX	X	268	35.742	46.364	74.092	0.00	0.00
ATOM	3998	CB	CYX	X	268	36.098	44.292	74.645	0.00	0.00
ATOM	3999	HB2	CYX	X	268	35.499	44.476	75.537	0.00	0.00
ATOM	4000	HB3	CYX	X	268	35.849	43.297	74.277	0.00	0.00
ATOM	4001	SG	CYX	X	268	37.843	44.309	75.097	0.00	0.00
ATOM	4002	C	CYX	X	268	36.446	45.343	72.419	0.00	0.00
ATOM	4003	O	CYX	X	268	37.372	46.195	72.228	0.00	0.00
ATOM	4004	N	LEU	X	269	36.142	44.369	71.543	0.00	0.00
ATOM	4005	H	LEU	X	269	35.467	43.653	71.773	0.00	0.00
ATOM	4006	CA	LEU	X	269	36.794	44.285	70.252	0.00	0.00
ATOM	4007	HA	LEU	X	269	37.836	43.971	70.320	0.00	0.00
ATOM	4008	CB	LEU	X	269	36.105	42.987	69.591	0.00	0.00
ATOM	4009	HB2	LEU	X	269	35.724	42.441	70.454	0.00	0.00
ATOM	4010	HB3	LEU	X	269	35.215	43.279	69.033	0.00	0.00
ATOM	4011	CG	LEU	X	269	36.980	42.147	68.706	0.00	0.00
ATOM	4012	HG	LEU	X	269	37.216	42.741	67.823	0.00	0.00
ATOM	4013	CD1	LEU	X	269	38.230	41.615	69.424	0.00	0.00
ATOM	4014	HD11	LEU	X	269	38.903	42.472	69.386	0.00	0.00
ATOM	4015	HD12	LEU	X	269	37.970	41.184	70.391	0.00	0.00
ATOM	4016	HD13	LEU	X	269	38.693	40.926	68.718	0.00	0.00
ATOM	4017	CD2	LEU	X	269	36.039	41.076	68.243	0.00	0.00
ATOM	4018	HD21	LEU	X	269	35.520	40.561	69.051	0.00	0.00
ATOM	4019	HD22	LEU	X	269	35.303	41.487	67.552	0.00	0.00
ATOM	4020	HD23	LEU	X	269	36.715	40.370	67.760	0.00	0.00
ATOM	4021	C	LEU	X	269	36.683	45.511	69.420	0.00	0.00
ATOM	4022	O	LEU	X	269	37.491	45.694	68.519	0.00	0.00
ATOM	4023	N	ARG	X	270	35.716	46.383	69.673	0.00	0.00
ATOM	4024	H	ARG	X	270	35.100	46.204	70.453	0.00	0.00
ATOM	4025	CA	ARG	X	270	35.576	47.774	69.077	0.00	0.00
ATOM	4026	HA	ARG	X	270	36.060	47.770	68.101	0.00	0.00
ATOM	4027	CB	ARG	X	270	34.101	48.127	68.819	0.00	0.00
ATOM	4028	HB2	ARG	X	270	33.450	47.958	69.676	0.00	0.00
ATOM	4029	HB3	ARG	X	270	34.144	49.157	68.466	0.00	0.00
ATOM	4030	CG	ARG	X	270	33.600	47.401	67.560	0.00	0.00
ATOM	4031	HG2	ARG	X	270	34.278	47.487	66.711	0.00	0.00
ATOM	4032	HG3	ARG	X	270	33.648	46.320	67.691	0.00	0.00
ATOM	4033	CD	ARG	X	270	32.269	47.907	67.152	0.00	0.00
ATOM	4034	HD2	ARG	X	270	32.172	48.915	67.555	0.00	0.00
ATOM	4035	HD3	ARG	X	270	32.289	47.925	66.062	0.00	0.00
ATOM	4036	NE	ARG	X	270	31.087	47.223	67.710	0.00	0.00
ATOM	4037	HE	ARG	X	270	30.678	47.473	68.599	0.00	0.00
ATOM	4038	CZ	ARG	X	270	30.229	46.472	66.966	0.00	0.00
ATOM	4039	NH1	ARG	X	270	30.380	46.092	65.684	0.00	0.00
ATOM	4040	HH11	ARG	X	270	31.214	46.381	65.192	0.00	0.00
ATOM	4041	HH12	ARG	X	270	29.651	45.551	65.241	0.00	0.00
ATOM	4042	NH2	ARG	X	270	29.135	45.990	67.553	0.00	0.00
ATOM	4043	HH21	ARG	X	270	29.053	45.813	68.544	0.00	0.00
ATOM	4044	HH22	ARG	X	270	28.647	45.355	66.938	0.00	0.00
ATOM	4045	C	ARG	X	270	36.284	48.878	69.964	0.00	0.00
ATOM	4046	O	ARG	X	270	36.860	49.739	69.284	0.00	0.00
ATOM	4047	N	THR	X	271	36.413	48.797	71.256	0.00	0.00
ATOM	4048	H	THR	X	271	35.950	48.006	71.681	0.00	0.00
ATOM	4049	CA	THR	X	271	37.029	49.843	72.070	0.00	0.00
ATOM	4050	HA	THR	X	271	36.745	50.776	71.584	0.00	0.00
ATOM	4051	CB	THR	X	271	36.419	49.854	73.456	0.00	0.00
ATOM	4052	HB	THR	X	271	36.586	48.889	73.935	0.00	0.00
ATOM	4053	CG2	THR	X	271	37.020	50.907	74.354	0.00	0.00
ATOM	4054	HG21	THR	X	271	36.645	51.920	74.207	0.00	0.00
ATOM	4055	HG22	THR	X	271	36.697	50.713	75.376	0.00	0.00
ATOM	4056	HG23	THR	X	271	38.109	50.907	74.323	0.00	0.00
ATOM	4057	OG1	THR	X	271	35.021	50.052	73.259	0.00	0.00
ATOM	4058	HG1	THR	X	271	34.596	50.174	74.111	0.00	0.00
ATOM	4059	C	THR	X	271	38.572	49.677	72.074	0.00	0.00
ATOM	4060	O	THR	X	271	39.245	50.732	72.130	0.00	0.00
ATOM	4061	N	ARG	X	272	39.131	48.497	71.801	0.00	0.00
ATOM	4062	H	ARG	X	272	38.421	47.781	71.727	0.00	0.00

ATOM	4063	CA	ARG	X	272	40.602	48.215	71.804	0.00	0.00
ATOM	4064	HA	ARG	X	272	41.158	48.794	72.542	0.00	0.00
ATOM	4065	CB	ARG	X	272	40.925	46.741	72.038	0.00	0.00
ATOM	4066	HB2	ARG	X	272	40.345	46.207	71.285	0.00	0.00
ATOM	4067	HB3	ARG	X	272	41.997	46.625	71.875	0.00	0.00
ATOM	4068	CG	ARG	X	272	40.581	46.129	73.386	0.00	0.00
ATOM	4069	HG2	ARG	X	272	39.553	46.381	73.645	0.00	0.00
ATOM	4070	HG3	ARG	X	272	40.634	45.048	73.258	0.00	0.00
ATOM	4071	CD	ARG	X	272	41.580	46.392	74.591	0.00	0.00
ATOM	4072	HD2	ARG	X	272	42.561	46.224	74.148	0.00	0.00
ATOM	4073	HD3	ARG	X	272	41.579	47.414	74.968	0.00	0.00
ATOM	4074	NE	ARG	X	272	41.230	45.483	75.711	0.00	0.00
ATOM	4075	HE	ARG	X	272	40.406	44.907	75.610	0.00	0.00
ATOM	4076	CZ	ARG	X	272	41.903	45.334	76.863	0.00	0.00
ATOM	4077	NH1	ARG	X	272	43.052	45.990	77.112	0.00	0.00
ATOM	4078	HH11	ARG	X	272	43.472	46.742	76.584	0.00	0.00
ATOM	4079	HH12	ARG	X	272	43.534	45.800	77.979	0.00	0.00
ATOM	4080	NH2	ARG	X	272	41.568	44.503	77.810	0.00	0.00
ATOM	4081	HH21	ARG	X	272	40.751	43.937	77.629	0.00	0.00
ATOM	4082	HH22	ARG	X	272	42.071	44.414	78.681	0.00	0.00
ATOM	4083	C	ARG	X	272	41.152	48.671	70.404	0.00	0.00
ATOM	4084	O	ARG	X	272	40.411	48.625	69.419	0.00	0.00
ATOM	4085	N	PRO	X	273	42.399	49.168	70.230	0.00	0.00
ATOM	4086	CD	PRO	X	273	43.327	49.335	71.288	0.00	0.00
ATOM	4087	HD2	PRO	X	273	43.528	48.363	71.740	0.00	0.00
ATOM	4088	HD3	PRO	X	273	42.821	50.051	71.936	0.00	0.00
ATOM	4089	CG	PRO	X	273	44.575	50.016	70.666	0.00	0.00
ATOM	4090	HG2	PRO	X	273	45.403	49.330	70.488	0.00	0.00
ATOM	4091	HG3	PRO	X	273	44.911	50.834	71.305	0.00	0.00
ATOM	4092	CB	PRO	X	273	44.128	50.417	69.278	0.00	0.00
ATOM	4093	HB2	PRO	X	273	44.955	50.293	68.579	0.00	0.00
ATOM	4094	HB3	PRO	X	273	43.941	51.489	69.217	0.00	0.00
ATOM	4095	CA	PRO	X	273	42.800	49.719	68.975	0.00	0.00
ATOM	4096	HA	PRO	X	273	42.143	50.553	68.730	0.00	0.00
ATOM	4097	C	PRO	X	273	42.917	48.732	67.778	0.00	0.00
ATOM	4098	O	PRO	X	273	43.085	47.562	67.914	0.00	0.00
ATOM	4099	N	ALA	X	274	42.817	49.278	66.530	0.00	0.00
ATOM	4100	H	ALA	X	274	42.699	50.268	66.367	0.00	0.00
ATOM	4101	CA	ALA	X	274	42.652	48.468	65.359	0.00	0.00
ATOM	4102	HA	ALA	X	274	41.851	47.740	65.488	0.00	0.00
ATOM	4103	CB	ALA	X	274	42.380	49.360	64.121	0.00	0.00
ATOM	4104	HB1	ALA	X	274	43.055	50.216	64.121	0.00	0.00
ATOM	4105	HB2	ALA	X	274	42.486	48.781	63.203	0.00	0.00
ATOM	4106	HB3	ALA	X	274	41.315	49.576	64.034	0.00	0.00
ATOM	4107	C	ALA	X	274	43.945	47.621	65.095	0.00	0.00
ATOM	4108	O	ALA	X	274	43.841	46.483	64.688	0.00	0.00
ATOM	4109	N	GLN	X	275	45.143	48.224	65.224	0.00	0.00
ATOM	4110	H	GLN	X	275	45.227	49.134	65.655	0.00	0.00
ATOM	4111	CA	GLN	X	275	46.361	47.565	64.817	0.00	0.00
ATOM	4112	HA	GLN	X	275	46.146	47.257	63.794	0.00	0.00
ATOM	4113	CB	GLN	X	275	47.479	48.590	64.755	0.00	0.00
ATOM	4114	HB2	GLN	X	275	47.309	49.427	64.077	0.00	0.00
ATOM	4115	HB3	GLN	X	275	47.470	49.068	65.735	0.00	0.00
ATOM	4116	CG	GLN	X	275	48.836	48.104	64.435	0.00	0.00
ATOM	4117	HG2	GLN	X	275	49.549	48.928	64.405	0.00	0.00
ATOM	4118	HG3	GLN	X	275	49.162	47.348	65.149	0.00	0.00
ATOM	4119	CD	GLN	X	275	48.938	47.526	63.016	0.00	0.00
ATOM	4120	OE1	GLN	X	275	49.303	48.214	62.025	0.00	0.00
ATOM	4121	NE2	GLN	X	275	48.497	46.299	62.817	0.00	0.00
ATOM	4122	HE21	GLN	X	275	48.569	46.025	61.848	0.00	0.00
ATOM	4123	HE22	GLN	X	275	47.949	45.768	63.479	0.00	0.00
ATOM	4124	C	GLN	X	275	46.680	46.215	65.566	0.00	0.00
ATOM	4125	O	GLN	X	275	46.903	45.192	64.862	0.00	0.00
ATOM	4126	N	VAL	X	276	46.782	46.134	66.926	0.00	0.00
ATOM	4127	H	VAL	X	276	46.641	47.025	67.380	0.00	0.00
ATOM	4128	CA	VAL	X	276	46.915	44.888	67.670	0.00	0.00
ATOM	4129	HA	VAL	X	276	47.871	44.459	67.367	0.00	0.00
ATOM	4130	CB	VAL	X	276	46.906	45.211	69.179	0.00	0.00
ATOM	4131	HB	VAL	X	276	47.778	45.856	69.288	0.00	0.00
ATOM	4132	CG1	VAL	X	276	45.630	45.940	69.704	0.00	0.00

ATOM	4133	HG11	VAL	X	276	44.763	45.282	69.755	0.00	0.00
ATOM	4134	HG12	VAL	X	276	45.740	46.140	70.770	0.00	0.00
ATOM	4135	HG13	VAL	X	276	45.475	46.879	69.173	0.00	0.00
ATOM	4136	CG2	VAL	X	276	47.232	44.018	70.004	0.00	0.00
ATOM	4137	HG21	VAL	X	276	47.255	44.331	71.048	0.00	0.00
ATOM	4138	HG22	VAL	X	276	46.597	43.132	70.015	0.00	0.00
ATOM	4139	HG23	VAL	X	276	48.237	43.658	69.786	0.00	0.00
ATOM	4140	C	VAL	X	276	45.825	43.898	67.309	0.00	0.00
ATOM	4141	O	VAL	X	276	46.140	42.745	67.171	0.00	0.00
ATOM	4142	N	LEU	X	277	44.655	44.342	66.893	0.00	0.00
ATOM	4143	H	LEU	X	277	44.478	45.336	66.896	0.00	0.00
ATOM	4144	CA	LEU	X	277	43.609	43.477	66.346	0.00	0.00
ATOM	4145	HA	LEU	X	277	43.694	42.672	67.077	0.00	0.00
ATOM	4146	CB	LEU	X	277	42.210	44.144	66.277	0.00	0.00
ATOM	4147	HB2	LEU	X	277	42.089	44.634	67.244	0.00	0.00
ATOM	4148	HB3	LEU	X	277	42.139	44.857	65.456	0.00	0.00
ATOM	4149	CG	LEU	X	277	41.104	43.164	66.041	0.00	0.00
ATOM	4150	HG	LEU	X	277	41.643	42.230	66.200	0.00	0.00
ATOM	4151	CD1	LEU	X	277	40.045	43.348	67.095	0.00	0.00
ATOM	4152	HD11	LEU	X	277	39.125	42.881	66.742	0.00	0.00
ATOM	4153	HD12	LEU	X	277	40.315	42.815	68.007	0.00	0.00
ATOM	4154	HD13	LEU	X	277	39.850	44.416	67.184	0.00	0.00
ATOM	4155	CD2	LEU	X	277	40.605	43.379	64.594	0.00	0.00
ATOM	4156	HD21	LEU	X	277	39.999	42.545	64.241	0.00	0.00
ATOM	4157	HD22	LEU	X	277	40.066	44.325	64.553	0.00	0.00
ATOM	4158	HD23	LEU	X	277	41.510	43.396	63.986	0.00	0.00
ATOM	4159	C	LEU	X	277	43.886	42.843	64.975	0.00	0.00
ATOM	4160	O	LEU	X	277	43.689	41.656	64.942	0.00	0.00
ATOM	4161	N	VAL	X	278	44.365	43.603	63.959	0.00	0.00
ATOM	4162	H	VAL	X	278	44.479	44.569	64.231	0.00	0.00
ATOM	4163	CA	VAL	X	278	44.654	42.998	62.715	0.00	0.00
ATOM	4164	HA	VAL	X	278	44.000	42.137	62.578	0.00	0.00
ATOM	4165	CB	VAL	X	278	44.389	43.940	61.572	0.00	0.00
ATOM	4166	HB	VAL	X	278	44.527	43.385	60.644	0.00	0.00
ATOM	4167	CG1	VAL	X	278	42.908	44.310	61.532	0.00	0.00
ATOM	4168	HG11	VAL	X	278	42.713	44.893	60.632	0.00	0.00
ATOM	4169	HG12	VAL	X	278	42.406	43.350	61.407	0.00	0.00
ATOM	4170	HG13	VAL	X	278	42.611	44.915	62.389	0.00	0.00
ATOM	4171	CG2	VAL	X	278	45.370	45.132	61.520	0.00	0.00
ATOM	4172	HG21	VAL	X	278	45.290	45.815	62.365	0.00	0.00
ATOM	4173	HG22	VAL	X	278	46.386	44.740	61.497	0.00	0.00
ATOM	4174	HG23	VAL	X	278	45.158	45.739	60.639	0.00	0.00
ATOM	4175	C	VAL	X	278	46.084	42.432	62.627	0.00	0.00
ATOM	4176	O	VAL	X	278	46.281	41.492	61.884	0.00	0.00
ATOM	4177	N	ASN	X	279	46.999	42.727	63.543	0.00	0.00
ATOM	4178	H	ASN	X	279	46.764	43.332	64.317	0.00	0.00
ATOM	4179	CA	ASN	X	279	48.301	42.060	63.634	0.00	0.00
ATOM	4180	HA	ASN	X	279	48.740	41.988	62.639	0.00	0.00
ATOM	4181	CB	ASN	X	279	49.258	42.792	64.586	0.00	0.00
ATOM	4182	HB2	ASN	X	279	49.484	43.755	64.127	0.00	0.00
ATOM	4183	HB3	ASN	X	279	48.859	42.897	65.595	0.00	0.00
ATOM	4184	CG	ASN	X	279	50.646	42.151	64.583	0.00	0.00
ATOM	4185	OD1	ASN	X	279	50.918	41.340	65.443	0.00	0.00
ATOM	4186	ND2	ASN	X	279	51.544	42.529	63.658	0.00	0.00
ATOM	4187	HD21	ASN	X	279	52.467	42.133	63.765	0.00	0.00
ATOM	4188	HD22	ASN	X	279	51.385	43.297	63.022	0.00	0.00
ATOM	4189	C	ASN	X	279	48.057	40.580	64.093	0.00	0.00
ATOM	4190	O	ASN	X	279	48.517	39.639	63.398	0.00	0.00
ATOM	4191	N	HIE	X	280	47.273	40.413	65.162	0.00	0.00
ATOM	4192	H	HIE	X	280	46.726	41.165	65.557	0.00	0.00
ATOM	4193	CA	HIE	X	280	46.908	39.067	65.624	0.00	0.00
ATOM	4194	HA	HIE	X	280	47.821	38.479	65.725	0.00	0.00
ATOM	4195	CB	HIE	X	280	46.309	39.098	67.015	0.00	0.00
ATOM	4196	HB2	HIE	X	280	45.406	39.704	66.932	0.00	0.00
ATOM	4197	HB3	HIE	X	280	46.072	38.087	67.346	0.00	0.00
ATOM	4198	CG	HIE	X	280	47.212	39.612	68.159	0.00	0.00
ATOM	4199	ND1	HIE	X	280	48.569	39.402	68.282	0.00	0.00
ATOM	4200	CE1	HIE	X	280	48.954	39.787	69.541	0.00	0.00
ATOM	4201	HE1	HIE	X	280	49.962	39.666	69.908	0.00	0.00
ATOM	4202	NE2	HIE	X	280	47.878	40.388	70.119	0.00	0.00

ATOM	4203	HE2	HIE	X	280	47.906	40.889	70.996	0.00	0.00
ATOM	4204	CD2	HIE	X	280	46.785	40.233	69.287	0.00	0.00
ATOM	4205	HD2	HIE	X	280	45.803	40.594	69.555	0.00	0.00
ATOM	4206	C	HIE	X	280	46.071	38.200	64.645	0.00	0.00
ATOM	4207	O	HIE	X	280	45.874	36.968	64.853	0.00	0.00
ATOM	4208	N	GLU	X	281	45.609	38.767	63.527	0.00	0.00
ATOM	4209	H	GLU	X	281	45.725	39.749	63.318	0.00	0.00
ATOM	4210	CA	GLU	X	281	44.655	38.086	62.646	0.00	0.00
ATOM	4211	HA	GLU	X	281	43.681	38.019	63.131	0.00	0.00
ATOM	4212	CB	GLU	X	281	44.385	38.958	61.462	0.00	0.00
ATOM	4213	HB2	GLU	X	281	44.195	39.995	61.738	0.00	0.00
ATOM	4214	HB3	GLU	X	281	45.316	38.934	60.896	0.00	0.00
ATOM	4215	CG	GLU	X	281	43.223	38.462	60.656	0.00	0.00
ATOM	4216	HG2	GLU	X	281	43.523	37.438	60.432	0.00	0.00
ATOM	4217	HG3	GLU	X	281	42.353	38.452	61.312	0.00	0.00
ATOM	4218	CD	GLU	X	281	43.055	39.193	59.317	0.00	0.00
ATOM	4219	OE1	GLU	X	281	42.818	40.438	59.365	0.00	0.00
ATOM	4220	OE2	GLU	X	281	42.982	38.522	58.278	0.00	0.00
ATOM	4221	C	GLU	X	281	45.061	36.670	62.266	0.00	0.00
ATOM	4222	O	GLU	X	281	44.480	35.623	62.650	0.00	0.00
ATOM	4223	N	TRP	X	282	46.120	36.551	61.456	0.00	0.00
ATOM	4224	H	TRP	X	282	46.497	37.408	61.077	0.00	0.00
ATOM	4225	CA	TRP	X	282	46.627	35.292	61.049	0.00	0.00
ATOM	4226	HA	TRP	X	282	45.873	34.702	60.527	0.00	0.00
ATOM	4227	CB	TRP	X	282	47.714	35.556	60.009	0.00	0.00
ATOM	4228	HB2	TRP	X	282	48.364	36.394	60.264	0.00	0.00
ATOM	4229	HB3	TRP	X	282	48.298	34.637	59.948	0.00	0.00
ATOM	4230	CG	TRP	X	282	47.218	35.646	58.611	0.00	0.00
ATOM	4231	CD1	TRP	X	282	46.062	36.363	58.247	0.00	0.00
ATOM	4232	HD1	TRP	X	282	45.377	36.851	58.926	0.00	0.00
ATOM	4233	NE1	TRP	X	282	45.998	36.360	56.847	0.00	0.00
ATOM	4234	HE1	TRP	X	282	45.266	36.843	56.346	0.00	0.00
ATOM	4235	CE2	TRP	X	282	47.192	35.830	56.259	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	47.472	35.706	54.876	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	46.765	35.882	54.079	0.00	0.00
ATOM	4238	CH2	TRP	X	282	48.682	35.059	54.675	0.00	0.00
ATOM	4239	HH2	TRP	X	282	48.996	34.910	53.653	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	49.509	34.639	55.693	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	50.376	34.049	55.438	0.00	0.00
ATOM	4242	CE3	TRP	X	282	49.232	34.879	57.052	0.00	0.00
ATOM	4243	HE3	TRP	X	282	49.890	34.618	57.868	0.00	0.00
ATOM	4244	CD2	TRP	X	282	47.956	35.498	57.370	0.00	0.00
ATOM	4245	C	TRP	X	282	47.144	34.414	62.176	0.00	0.00
ATOM	4246	O	TRP	X	282	47.129	33.231	61.852	0.00	0.00
ATOM	4247	N	HIE	X	283	47.204	34.771	63.507	0.00	0.00
ATOM	4248	H	HIE	X	283	47.170	35.741	63.785	0.00	0.00
ATOM	4249	CA	HIE	X	283	47.244	33.849	64.612	0.00	0.00
ATOM	4250	HA	HIE	X	283	48.079	33.177	64.409	0.00	0.00
ATOM	4251	CB	HIE	X	283	47.550	34.510	65.939	0.00	0.00
ATOM	4252	HB2	HIE	X	283	48.199	35.364	65.748	0.00	0.00
ATOM	4253	HB3	HIE	X	283	46.602	34.826	66.376	0.00	0.00
ATOM	4254	CG	HIE	X	283	48.418	33.857	66.892	0.00	0.00
ATOM	4255	ND1	HIE	X	283	49.332	32.897	66.568	0.00	0.00
ATOM	4256	CE1	HIE	X	283	50.107	32.693	67.593	0.00	0.00
ATOM	4257	HE1	HIE	X	283	50.942	32.014	67.682	0.00	0.00
ATOM	4258	NE2	HIE	X	283	49.752	33.558	68.556	0.00	0.00
ATOM	4259	HE2	HIE	X	283	50.342	33.731	69.357	0.00	0.00
ATOM	4260	CD2	HIE	X	283	48.661	34.224	68.231	0.00	0.00
ATOM	4261	HD2	HIE	X	283	48.173	34.936	68.880	0.00	0.00
ATOM	4262	C	HIE	X	283	45.955	32.951	64.602	0.00	0.00
ATOM	4263	O	HIE	X	283	46.087	31.857	65.165	0.00	0.00
ATOM	4264	N	VAL	X	284	44.825	33.305	63.934	0.00	0.00
ATOM	4265	H	VAL	X	284	44.958	34.204	63.492	0.00	0.00
ATOM	4266	CA	VAL	X	284	43.589	32.532	63.817	0.00	0.00
ATOM	4267	HA	VAL	X	284	43.659	31.488	64.123	0.00	0.00
ATOM	4268	CB	VAL	X	284	42.434	33.142	64.720	0.00	0.00
ATOM	4269	HB	VAL	X	284	41.557	32.499	64.649	0.00	0.00
ATOM	4270	CG1	VAL	X	284	43.045	33.047	66.188	0.00	0.00
ATOM	4271	HG11	VAL	X	284	43.453	32.054	66.376	0.00	0.00
ATOM	4272	HG12	VAL	X	284	43.744	33.868	66.347	0.00	0.00

ATOM	4273	HG13	VAL	X	284	42.178	33.342	66.780	0.00	0.00
ATOM	4274	CG2	VAL	X	284	42.043	34.584	64.407	0.00	0.00
ATOM	4275	HG21	VAL	X	284	42.905	35.207	64.648	0.00	0.00
ATOM	4276	HG22	VAL	X	284	41.920	34.649	63.326	0.00	0.00
ATOM	4277	HG23	VAL	X	284	41.135	34.962	64.876	0.00	0.00
ATOM	4278	C	VAL	X	284	43.172	32.343	62.312	0.00	0.00
ATOM	4279	O	VAL	X	284	42.001	32.166	61.927	0.00	0.00
ATOM	4280	N	LEU	X	285	44.179	32.158	61.521	0.00	0.00
ATOM	4281	H	LEU	X	285	45.136	32.210	61.840	0.00	0.00
ATOM	4282	CA	LEU	X	285	44.102	31.439	60.187	0.00	0.00
ATOM	4283	HA	LEU	X	285	43.234	31.826	59.654	0.00	0.00
ATOM	4284	CB	LEU	X	285	45.500	31.718	59.500	0.00	0.00
ATOM	4285	HB2	LEU	X	285	45.740	32.776	59.604	0.00	0.00
ATOM	4286	HB3	LEU	X	285	46.263	31.170	60.053	0.00	0.00
ATOM	4287	CG	LEU	X	285	45.726	31.349	57.980	0.00	0.00
ATOM	4288	HG	LEU	X	285	45.426	30.338	57.704	0.00	0.00
ATOM	4289	CD1	LEU	X	285	44.962	32.296	57.113	0.00	0.00
ATOM	4290	HD11	LEU	X	285	45.234	32.099	56.076	0.00	0.00
ATOM	4291	HD12	LEU	X	285	43.893	32.158	57.278	0.00	0.00
ATOM	4292	HD13	LEU	X	285	45.221	33.348	57.234	0.00	0.00
ATOM	4293	CD2	LEU	X	285	47.274	31.534	57.789	0.00	0.00
ATOM	4294	HD21	LEU	X	285	47.573	32.542	58.078	0.00	0.00
ATOM	4295	HD22	LEU	X	285	47.782	30.861	58.480	0.00	0.00
ATOM	4296	HD23	LEU	X	285	47.590	31.402	56.754	0.00	0.00
ATOM	4297	C	LEU	X	285	43.894	29.953	60.380	0.00	0.00
ATOM	4298	O	LEU	X	285	44.394	29.446	61.450	0.00	0.00
ATOM	4299	N	PRO	X	286	43.234	29.208	59.538	0.00	0.00
ATOM	4300	CD	PRO	X	286	42.430	29.759	58.461	0.00	0.00
ATOM	4301	HD2	PRO	X	286	42.921	30.474	57.802	0.00	0.00
ATOM	4302	HD3	PRO	X	286	41.566	30.277	58.878	0.00	0.00
ATOM	4303	CG	PRO	X	286	42.015	28.556	57.687	0.00	0.00
ATOM	4304	HG2	PRO	X	286	42.797	28.408	56.942	0.00	0.00
ATOM	4305	HG3	PRO	X	286	41.052	28.734	57.209	0.00	0.00
ATOM	4306	CB	PRO	X	286	41.947	27.402	58.737	0.00	0.00
ATOM	4307	HB2	PRO	X	286	41.815	26.452	58.219	0.00	0.00
ATOM	4308	HB3	PRO	X	286	41.064	27.529	59.363	0.00	0.00
ATOM	4309	CA	PRO	X	286	43.184	27.695	59.572	0.00	0.00
ATOM	4310	HA	PRO	X	286	43.095	27.224	60.551	0.00	0.00
ATOM	4311	C	PRO	X	286	44.499	27.184	58.931	0.00	0.00
ATOM	4312	O	PRO	X	286	44.942	27.570	57.844	0.00	0.00
ATOM	4313	N	GLN	X	287	45.072	26.271	59.703	0.00	0.00
ATOM	4314	H	GLN	X	287	44.642	25.904	60.541	0.00	0.00
ATOM	4315	CA	GLN	X	287	46.459	25.925	59.556	0.00	0.00
ATOM	4316	HA	GLN	X	287	47.006	26.657	58.961	0.00	0.00
ATOM	4317	CB	GLN	X	287	47.125	25.925	60.923	0.00	0.00
ATOM	4318	HB2	GLN	X	287	46.674	25.192	61.592	0.00	0.00
ATOM	4319	HB3	GLN	X	287	48.190	25.693	60.879	0.00	0.00
ATOM	4320	CG	GLN	X	287	47.025	27.308	61.540	0.00	0.00
ATOM	4321	HG2	GLN	X	287	46.021	27.599	61.848	0.00	0.00
ATOM	4322	HG3	GLN	X	287	47.497	27.242	62.521	0.00	0.00
ATOM	4323	CD	GLN	X	287	47.634	28.510	60.791	0.00	0.00
ATOM	4324	OE1	GLN	X	287	48.141	28.549	59.763	0.00	0.00
ATOM	4325	NE2	GLN	X	287	47.683	29.642	61.496	0.00	0.00
ATOM	4326	HE21	GLN	X	287	48.126	30.459	61.100	0.00	0.00
ATOM	4327	HE22	GLN	X	287	47.343	29.715	62.444	0.00	0.00
ATOM	4328	C	GLN	X	287	46.742	24.560	58.900	0.00	0.00
ATOM	4329	O	GLN	X	287	45.893	23.696	58.943	0.00	0.00
ATOM	4330	N	GLU	X	288	47.884	24.420	58.237	0.00	0.00
ATOM	4331	H	GLU	X	288	48.568	25.161	58.289	0.00	0.00
ATOM	4332	CA	GLU	X	288	48.355	23.311	57.437	0.00	0.00
ATOM	4333	HA	GLU	X	288	49.368	23.528	57.101	0.00	0.00
ATOM	4334	CB	GLU	X	288	48.429	22.027	58.341	0.00	0.00
ATOM	4335	HB2	GLU	X	288	47.488	21.641	58.735	0.00	0.00
ATOM	4336	HB3	GLU	X	288	48.746	21.134	57.803	0.00	0.00
ATOM	4337	CG	GLU	X	288	49.507	22.338	59.321	0.00	0.00
ATOM	4338	HG2	GLU	X	288	50.149	23.085	58.854	0.00	0.00
ATOM	4339	HG3	GLU	X	288	49.038	22.833	60.171	0.00	0.00
ATOM	4340	CD	GLU	X	288	50.258	21.093	59.800	0.00	0.00
ATOM	4341	OE1	GLU	X	288	49.916	20.529	60.844	0.00	0.00
ATOM	4342	OE2	GLU	X	288	51.237	20.699	59.135	0.00	0.00

ATOM	4343	C	GLU	X	288	47.520	22.975	56.186	0.00	0.00
ATOM	4344	O	GLU	X	288	48.033	22.441	55.245	0.00	0.00
ATOM	4345	N	SER	X	289	46.310	23.469	56.125	0.00	0.00
ATOM	4346	H	SER	X	289	46.049	23.967	56.964	0.00	0.00
ATOM	4347	CA	SER	X	289	45.552	23.645	54.836	0.00	0.00
ATOM	4348	HA	SER	X	289	45.616	22.783	54.171	0.00	0.00
ATOM	4349	CB	SER	X	289	44.073	23.846	55.077	0.00	0.00
ATOM	4350	HB2	SER	X	289	43.991	24.708	55.738	0.00	0.00
ATOM	4351	HB3	SER	X	289	43.504	23.997	54.160	0.00	0.00
ATOM	4352	OG	SER	X	289	43.549	22.806	55.842	0.00	0.00
ATOM	4353	HG	SER	X	289	42.609	22.810	55.648	0.00	0.00
ATOM	4354	C	SER	X	289	46.067	24.889	54.030	0.00	0.00
ATOM	4355	O	SER	X	289	45.865	26.030	54.434	0.00	0.00
ATOM	4356	N	VAL	X	290	46.664	24.655	52.880	0.00	0.00
ATOM	4357	H	VAL	X	290	46.604	23.686	52.599	0.00	0.00
ATOM	4358	CA	VAL	X	290	47.137	25.683	51.908	0.00	0.00
ATOM	4359	HA	VAL	X	290	47.626	26.482	52.465	0.00	0.00
ATOM	4360	CB	VAL	X	290	48.014	25.070	50.805	0.00	0.00
ATOM	4361	HB	VAL	X	290	47.354	24.285	50.437	0.00	0.00
ATOM	4362	CG1	VAL	X	290	48.341	26.090	49.618	0.00	0.00
ATOM	4363	HG11	VAL	X	290	49.174	25.682	49.046	0.00	0.00
ATOM	4364	HG12	VAL	X	290	47.509	26.264	48.936	0.00	0.00
ATOM	4365	HG13	VAL	X	290	48.670	26.974	50.164	0.00	0.00
ATOM	4366	CG2	VAL	X	290	49.314	24.393	51.296	0.00	0.00
ATOM	4367	HG21	VAL	X	290	49.101	23.495	51.875	0.00	0.00
ATOM	4368	HG22	VAL	X	290	49.861	24.002	50.438	0.00	0.00
ATOM	4369	HG23	VAL	X	290	49.855	25.161	51.850	0.00	0.00
ATOM	4370	C	VAL	X	290	45.863	26.350	51.325	0.00	0.00
ATOM	4371	O	VAL	X	290	44.869	25.679	51.090	0.00	0.00
ATOM	4372	N	PHE	X	291	46.002	27.630	50.961	0.00	0.00
ATOM	4373	H	PHE	X	291	46.936	27.969	51.143	0.00	0.00
ATOM	4374	CA	PHE	X	291	45.083	28.450	50.128	0.00	0.00
ATOM	4375	HA	PHE	X	291	45.491	29.460	50.097	0.00	0.00
ATOM	4376	CB	PHE	X	291	45.146	27.954	48.692	0.00	0.00
ATOM	4377	HB2	PHE	X	291	46.134	28.068	48.246	0.00	0.00
ATOM	4378	HB3	PHE	X	291	44.910	26.890	48.703	0.00	0.00
ATOM	4379	CG	PHE	X	291	44.336	28.624	47.581	0.00	0.00
ATOM	4380	CD1	PHE	X	291	43.781	29.861	47.749	0.00	0.00
ATOM	4381	HD1	PHE	X	291	43.856	30.388	48.689	0.00	0.00
ATOM	4382	CE1	PHE	X	291	43.102	30.503	46.687	0.00	0.00
ATOM	4383	HE1	PHE	X	291	42.646	31.457	46.905	0.00	0.00
ATOM	4384	CZ	PHE	X	291	42.950	29.898	45.425	0.00	0.00
ATOM	4385	HZ	PHE	X	291	42.474	30.403	44.597	0.00	0.00
ATOM	4386	CE2	PHE	X	291	43.519	28.631	45.262	0.00	0.00
ATOM	4387	HE2	PHE	X	291	43.409	28.151	44.301	0.00	0.00
ATOM	4388	CD2	PHE	X	291	44.276	28.034	46.293	0.00	0.00
ATOM	4389	HD2	PHE	X	291	44.691	27.043	46.188	0.00	0.00
ATOM	4390	C	PHE	X	291	43.636	28.514	50.777	0.00	0.00
ATOM	4391	O	PHE	X	291	42.617	28.153	50.174	0.00	0.00
ATOM	4392	N	ARG	X	292	43.603	28.792	52.093	0.00	0.00
ATOM	4393	H	ARG	X	292	44.508	28.928	52.519	0.00	0.00
ATOM	4394	CA	ARG	X	292	42.432	29.095	52.943	0.00	0.00
ATOM	4395	HA	ARG	X	292	41.567	29.339	52.326	0.00	0.00
ATOM	4396	CB	ARG	X	292	42.211	27.802	53.731	0.00	0.00
ATOM	4397	HB2	ARG	X	292	42.606	26.957	53.167	0.00	0.00
ATOM	4398	HB3	ARG	X	292	42.718	27.895	54.691	0.00	0.00
ATOM	4399	CG	ARG	X	292	40.728	27.523	53.880	0.00	0.00
ATOM	4400	HG2	ARG	X	292	40.525	27.273	54.921	0.00	0.00
ATOM	4401	HG3	ARG	X	292	40.095	28.371	53.618	0.00	0.00
ATOM	4402	CD	ARG	X	292	40.271	26.294	52.973	0.00	0.00
ATOM	4403	HD2	ARG	X	292	40.738	25.414	53.415	0.00	0.00
ATOM	4404	HD3	ARG	X	292	39.204	26.175	53.165	0.00	0.00
ATOM	4405	NE	ARG	X	292	40.716	26.503	51.567	0.00	0.00
ATOM	4406	HE	ARG	X	292	41.570	27.033	51.460	0.00	0.00
ATOM	4407	CZ	ARG	X	292	40.521	25.707	50.522	0.00	0.00
ATOM	4408	NH1	ARG	X	292	39.587	24.761	50.518	0.00	0.00
ATOM	4409	HH11	ARG	X	292	39.011	24.601	51.333	0.00	0.00
ATOM	4410	HH12	ARG	X	292	39.501	24.276	49.636	0.00	0.00
ATOM	4411	NH2	ARG	X	292	41.113	25.946	49.366	0.00	0.00
ATOM	4412	HH21	ARG	X	292	41.687	26.765	49.220	0.00	0.00

ATOM	4413	HH22	ARG	X	292	41.046	25.265	48.624	0.00	0.00
ATOM	4414	C	ARG	X	292	42.800	30.271	53.813	0.00	0.00
ATOM	4415	O	ARG	X	292	44.028	30.485	53.986	0.00	0.00
ATOM	4416	N	PHE	X	293	41.802	31.097	54.172	0.00	0.00
ATOM	4417	H	PHE	X	293	40.826	30.898	54.005	0.00	0.00
ATOM	4418	CA	PHE	X	293	42.105	32.403	54.734	0.00	0.00
ATOM	4419	HA	PHE	X	293	43.174	32.546	54.894	0.00	0.00
ATOM	4420	CB	PHE	X	293	41.639	33.464	53.689	0.00	0.00
ATOM	4421	HB2	PHE	X	293	40.578	33.307	53.496	0.00	0.00
ATOM	4422	HB3	PHE	X	293	41.867	34.441	54.116	0.00	0.00
ATOM	4423	CG	PHE	X	293	42.301	33.296	52.322	0.00	0.00
ATOM	4424	CD1	PHE	X	293	43.676	33.655	52.199	0.00	0.00
ATOM	4425	HD1	PHE	X	293	44.212	34.055	53.047	0.00	0.00
ATOM	4426	CE1	PHE	X	293	44.355	33.451	50.984	0.00	0.00
ATOM	4427	HE1	PHE	X	293	45.419	33.631	51.011	0.00	0.00
ATOM	4428	CZ	PHE	X	293	43.659	33.047	49.799	0.00	0.00
ATOM	4429	HZ	PHE	X	293	44.155	33.007	48.841	0.00	0.00
ATOM	4430	CE2	PHE	X	293	42.279	32.856	49.911	0.00	0.00
ATOM	4431	HE2	PHE	X	293	41.717	32.317	49.162	0.00	0.00
ATOM	4432	CD2	PHE	X	293	41.615	32.974	51.156	0.00	0.00
ATOM	4433	HD2	PHE	X	293	40.557	32.760	51.192	0.00	0.00
ATOM	4434	C	PHE	X	293	41.512	32.624	56.110	0.00	0.00
ATOM	4435	O	PHE	X	293	40.686	31.870	56.584	0.00	0.00
ATOM	4436	N	SER	X	294	41.940	33.686	56.766	0.00	0.00
ATOM	4437	H	SER	X	294	42.529	34.356	56.293	0.00	0.00
ATOM	4438	CA	SER	X	294	41.647	34.209	58.151	0.00	0.00
ATOM	4439	HA	SER	X	294	41.888	33.493	58.936	0.00	0.00
ATOM	4440	CB	SER	X	294	42.589	35.431	58.492	0.00	0.00
ATOM	4441	HB2	SER	X	294	41.982	35.984	59.209	0.00	0.00
ATOM	4442	HB3	SER	X	294	43.543	35.174	58.952	0.00	0.00
ATOM	4443	OG	SER	X	294	42.692	36.180	57.302	0.00	0.00
ATOM	4444	HG	SER	X	294	42.854	37.090	57.562	0.00	0.00
ATOM	4445	C	SER	X	294	40.111	34.538	58.297	0.00	0.00
ATOM	4446	O	SER	X	294	39.375	33.876	58.993	0.00	0.00
ATOM	4447	N	PHE	X	295	39.722	35.610	57.674	0.00	0.00
ATOM	4448	H	PHE	X	295	40.469	36.013	57.126	0.00	0.00
ATOM	4449	CA	PHE	X	295	38.397	36.120	57.494	0.00	0.00
ATOM	4450	HA	PHE	X	295	37.744	35.341	57.888	0.00	0.00
ATOM	4451	CB	PHE	X	295	38.159	37.333	58.344	0.00	0.00
ATOM	4452	HB2	PHE	X	295	38.802	38.160	58.043	0.00	0.00
ATOM	4453	HB3	PHE	X	295	37.106	37.579	58.212	0.00	0.00
ATOM	4454	CG	PHE	X	295	38.312	37.071	59.903	0.00	0.00
ATOM	4455	CD1	PHE	X	295	37.125	36.793	60.599	0.00	0.00
ATOM	4456	HD1	PHE	X	295	36.224	36.773	60.004	0.00	0.00
ATOM	4457	CE1	PHE	X	295	37.242	36.365	61.963	0.00	0.00
ATOM	4458	HE1	PHE	X	295	36.319	36.025	62.408	0.00	0.00
ATOM	4459	CZ	PHE	X	295	38.448	36.464	62.660	0.00	0.00
ATOM	4460	HZ	PHE	X	295	38.422	36.114	63.681	0.00	0.00
ATOM	4461	CE2	PHE	X	295	39.535	36.974	61.983	0.00	0.00
ATOM	4462	HE2	PHE	X	295	40.511	36.964	62.445	0.00	0.00
ATOM	4463	CD2	PHE	X	295	39.477	37.268	60.626	0.00	0.00
ATOM	4464	HD2	PHE	X	295	40.353	37.700	60.165	0.00	0.00
ATOM	4465	C	PHE	X	295	38.081	36.287	55.973	0.00	0.00
ATOM	4466	O	PHE	X	295	38.976	36.631	55.184	0.00	0.00
ATOM	4467	N	VAL	X	296	36.833	35.997	55.620	0.00	0.00
ATOM	4468	H	VAL	X	296	36.190	35.797	56.372	0.00	0.00
ATOM	4469	CA	VAL	X	296	36.167	35.911	54.257	0.00	0.00
ATOM	4470	HA	VAL	X	296	36.697	36.601	53.599	0.00	0.00
ATOM	4471	CB	VAL	X	296	36.371	34.480	53.611	0.00	0.00
ATOM	4472	HB	VAL	X	296	35.768	34.481	52.703	0.00	0.00
ATOM	4473	CG1	VAL	X	296	37.731	34.190	53.111	0.00	0.00
ATOM	4474	HG11	VAL	X	296	37.981	35.002	52.428	0.00	0.00
ATOM	4475	HG12	VAL	X	296	38.378	34.330	53.977	0.00	0.00
ATOM	4476	HG13	VAL	X	296	38.007	33.395	52.417	0.00	0.00
ATOM	4477	CG2	VAL	X	296	35.790	33.303	54.455	0.00	0.00
ATOM	4478	HG21	VAL	X	296	36.432	33.076	55.306	0.00	0.00
ATOM	4479	HG22	VAL	X	296	34.829	33.609	54.869	0.00	0.00
ATOM	4480	HG23	VAL	X	296	35.749	32.392	53.857	0.00	0.00
ATOM	4481	C	VAL	X	296	34.678	36.211	54.365	0.00	0.00
ATOM	4482	O	VAL	X	296	34.192	36.225	55.462	0.00	0.00

ATOM	4483	N	PRO	X	297	33.966	36.413	53.200	0.00	0.00
ATOM	4484	CD	PRO	X	297	34.511	36.656	51.865	0.00	0.00
ATOM	4485	HD2	PRO	X	297	34.709	35.686	51.409	0.00	0.00
ATOM	4486	HD3	PRO	X	297	35.452	37.206	51.856	0.00	0.00
ATOM	4487	CG	PRO	X	297	33.402	37.338	51.147	0.00	0.00
ATOM	4488	HG2	PRO	X	297	33.394	37.008	50.109	0.00	0.00
ATOM	4489	HG3	PRO	X	297	33.498	38.423	51.192	0.00	0.00
ATOM	4490	CB	PRO	X	297	32.074	36.862	51.848	0.00	0.00
ATOM	4491	HB2	PRO	X	297	31.791	35.959	51.306	0.00	0.00
ATOM	4492	HB3	PRO	X	297	31.259	37.584	51.800	0.00	0.00
ATOM	4493	CA	PRO	X	297	32.534	36.489	53.322	0.00	0.00
ATOM	4494	HA	PRO	X	297	32.179	37.305	53.952	0.00	0.00
ATOM	4495	C	PRO	X	297	31.846	35.266	53.876	0.00	0.00
ATOM	4496	O	PRO	X	297	32.353	34.129	53.886	0.00	0.00
ATOM	4497	N	VAL	X	298	30.599	35.466	54.364	0.00	0.00
ATOM	4498	H	VAL	X	298	30.233	36.404	54.286	0.00	0.00
ATOM	4499	CA	VAL	X	298	29.879	34.463	55.147	0.00	0.00
ATOM	4500	HA	VAL	X	298	30.343	33.514	54.880	0.00	0.00
ATOM	4501	CB	VAL	X	298	29.961	34.841	56.719	0.00	0.00
ATOM	4502	HB	VAL	X	298	29.362	34.083	57.224	0.00	0.00
ATOM	4503	CG1	VAL	X	298	31.450	34.736	57.193	0.00	0.00
ATOM	4504	HG11	VAL	X	298	32.046	35.416	56.584	0.00	0.00
ATOM	4505	HG12	VAL	X	298	31.501	34.942	58.262	0.00	0.00
ATOM	4506	HG13	VAL	X	298	31.758	33.724	56.930	0.00	0.00
ATOM	4507	CG2	VAL	X	298	29.344	36.259	57.007	0.00	0.00
ATOM	4508	HG21	VAL	X	298	29.340	36.385	58.090	0.00	0.00
ATOM	4509	HG22	VAL	X	298	29.822	37.135	56.568	0.00	0.00
ATOM	4510	HG23	VAL	X	298	28.315	36.242	56.648	0.00	0.00
ATOM	4511	C	VAL	X	298	28.436	34.421	54.662	0.00	0.00
ATOM	4512	O	VAL	X	298	27.908	35.410	54.214	0.00	0.00
ATOM	4513	N	VAL	X	299	27.892	33.246	54.931	0.00	0.00
ATOM	4514	H	VAL	X	299	28.492	32.553	55.354	0.00	0.00
ATOM	4515	CA	VAL	X	299	26.509	32.856	54.918	0.00	0.00
ATOM	4516	HA	VAL	X	299	25.950	33.155	54.032	0.00	0.00
ATOM	4517	CB	VAL	X	299	26.344	31.338	54.984	0.00	0.00
ATOM	4518	HB	VAL	X	299	26.710	30.986	55.949	0.00	0.00
ATOM	4519	CG1	VAL	X	299	24.913	30.934	54.930	0.00	0.00
ATOM	4520	HG11	VAL	X	299	24.782	29.884	55.190	0.00	0.00
ATOM	4521	HG12	VAL	X	299	24.512	31.525	55.753	0.00	0.00
ATOM	4522	HG13	VAL	X	299	24.513	31.224	53.958	0.00	0.00
ATOM	4523	CG2	VAL	X	299	27.095	30.520	53.868	0.00	0.00
ATOM	4524	HG21	VAL	X	299	26.777	29.479	53.927	0.00	0.00
ATOM	4525	HG22	VAL	X	299	26.955	30.872	52.846	0.00	0.00
ATOM	4526	HG23	VAL	X	299	28.154	30.692	54.061	0.00	0.00
ATOM	4527	C	VAL	X	299	25.872	33.571	56.139	0.00	0.00
ATOM	4528	O	VAL	X	299	25.892	33.099	57.264	0.00	0.00
ATOM	4529	N	ASP	X	300	25.113	34.688	55.896	0.00	0.00
ATOM	4530	H	ASP	X	300	25.091	34.945	54.919	0.00	0.00
ATOM	4531	CA	ASP	X	300	24.424	35.566	56.860	0.00	0.00
ATOM	4532	HA	ASP	X	300	24.543	35.132	57.854	0.00	0.00
ATOM	4533	CB	ASP	X	300	24.862	37.030	56.683	0.00	0.00
ATOM	4534	HB2	ASP	X	300	24.358	37.625	57.444	0.00	0.00
ATOM	4535	HB3	ASP	X	300	25.896	37.036	57.027	0.00	0.00
ATOM	4536	CG	ASP	X	300	24.732	37.716	55.287	0.00	0.00
ATOM	4537	OD1	ASP	X	300	24.614	36.950	54.346	0.00	0.00
ATOM	4538	OD2	ASP	X	300	25.031	38.934	55.242	0.00	0.00
ATOM	4539	C	ASP	X	300	22.929	35.477	56.636	0.00	0.00
ATOM	4540	O	ASP	X	300	22.121	35.811	57.565	0.00	0.00
ATOM	4541	N	GLY	X	301	22.396	35.005	55.506	0.00	0.00
ATOM	4542	H	GLY	X	301	23.026	34.738	54.763	0.00	0.00
ATOM	4543	CA	GLY	X	301	20.983	34.922	55.019	0.00	0.00
ATOM	4544	HA2	GLY	X	301	20.894	34.163	54.275	0.00	0.00
ATOM	4545	HA3	GLY	X	301	20.375	34.655	55.835	0.00	0.00
ATOM	4546	C	GLY	X	301	20.469	36.294	54.523	0.00	0.00
ATOM	4547	O	GLY	X	301	19.269	36.475	54.441	0.00	0.00
ATOM	4548	N	ASP	X	302	21.389	37.190	54.134	0.00	0.00
ATOM	4549	H	ASP	X	302	22.342	36.858	54.107	0.00	0.00
ATOM	4550	CA	ASP	X	302	21.151	38.545	53.661	0.00	0.00
ATOM	4551	HA	ASP	X	302	20.105	38.646	53.371	0.00	0.00
ATOM	4552	CB	ASP	X	302	21.329	39.588	54.843	0.00	0.00

ATOM	4553	HB2	ASP	X	302	20.536	39.399	55.567	0.00	0.00
ATOM	4554	HB3	ASP	X	302	22.227	39.406	55.433	0.00	0.00
ATOM	4555	CG	ASP	X	302	21.230	41.041	54.275	0.00	0.00
ATOM	4556	OD1	ASP	X	302	20.148	41.466	53.774	0.00	0.00
ATOM	4557	OD2	ASP	X	302	22.261	41.731	54.189	0.00	0.00
ATOM	4558	C	ASP	X	302	21.958	38.843	52.408	0.00	0.00
ATOM	4559	O	ASP	X	302	21.499	39.152	51.325	0.00	0.00
ATOM	4560	N	PHE	X	303	23.243	38.517	52.452	0.00	0.00
ATOM	4561	H	PHE	X	303	23.688	38.248	53.318	0.00	0.00
ATOM	4562	CA	PHE	X	303	24.154	38.639	51.299	0.00	0.00
ATOM	4563	HA	PHE	X	303	23.666	39.274	50.560	0.00	0.00
ATOM	4564	CB	PHE	X	303	25.535	39.250	51.792	0.00	0.00
ATOM	4565	HB2	PHE	X	303	25.297	40.001	52.544	0.00	0.00
ATOM	4566	HB3	PHE	X	303	26.192	38.556	52.316	0.00	0.00
ATOM	4567	CG	PHE	X	303	26.291	39.977	50.683	0.00	0.00
ATOM	4568	CD1	PHE	X	303	26.524	39.319	49.453	0.00	0.00
ATOM	4569	HD1	PHE	X	303	26.142	38.315	49.349	0.00	0.00
ATOM	4570	CE1	PHE	X	303	27.268	40.016	48.485	0.00	0.00
ATOM	4571	HE1	PHE	X	303	27.553	39.630	47.518	0.00	0.00
ATOM	4572	CZ	PHE	X	303	27.729	41.379	48.649	0.00	0.00
ATOM	4573	HZ	PHE	X	303	28.347	41.879	47.919	0.00	0.00
ATOM	4574	CE2	PHE	X	303	27.514	42.004	49.892	0.00	0.00
ATOM	4575	HE2	PHE	X	303	27.864	43.024	49.941	0.00	0.00
ATOM	4576	CD2	PHE	X	303	26.718	41.335	50.855	0.00	0.00
ATOM	4577	HD2	PHE	X	303	26.410	41.817	51.771	0.00	0.00
ATOM	4578	C	PHE	X	303	24.240	37.287	50.637	0.00	0.00
ATOM	4579	O	PHE	X	303	23.932	37.094	49.428	0.00	0.00
ATOM	4580	N	LEU	X	304	24.533	36.282	51.408	0.00	0.00
ATOM	4581	H	LEU	X	304	24.699	36.541	52.369	0.00	0.00
ATOM	4582	CA	LEU	X	304	24.591	34.876	50.978	0.00	0.00
ATOM	4583	HA	LEU	X	304	24.294	34.697	49.945	0.00	0.00
ATOM	4584	CB	LEU	X	304	26.017	34.343	51.235	0.00	0.00
ATOM	4585	HB2	LEU	X	304	26.358	34.546	52.251	0.00	0.00
ATOM	4586	HB3	LEU	X	304	26.069	33.262	51.103	0.00	0.00
ATOM	4587	CG	LEU	X	304	27.030	35.085	50.307	0.00	0.00
ATOM	4588	HG	LEU	X	304	27.107	36.137	50.581	0.00	0.00
ATOM	4589	CD1	LEU	X	304	28.437	34.544	50.491	0.00	0.00
ATOM	4590	HD11	LEU	X	304	28.779	34.857	51.478	0.00	0.00
ATOM	4591	HD12	LEU	X	304	28.358	33.459	50.425	0.00	0.00
ATOM	4592	HD13	LEU	X	304	29.191	34.843	49.763	0.00	0.00
ATOM	4593	CD2	LEU	X	304	26.680	35.068	48.862	0.00	0.00
ATOM	4594	HD21	LEU	X	304	27.287	35.854	48.412	0.00	0.00
ATOM	4595	HD22	LEU	X	304	27.035	34.153	48.387	0.00	0.00
ATOM	4596	HD23	LEU	X	304	25.637	35.095	48.545	0.00	0.00
ATOM	4597	C	LEU	X	304	23.575	34.090	51.853	0.00	0.00
ATOM	4598	O	LEU	X	304	23.711	33.949	53.067	0.00	0.00
ATOM	4599	N	SER	X	305	22.595	33.486	51.157	0.00	0.00
ATOM	4600	H	SER	X	305	22.393	33.754	50.205	0.00	0.00
ATOM	4601	CA	SER	X	305	21.571	32.720	51.841	0.00	0.00
ATOM	4602	HA	SER	X	305	21.603	33.034	52.884	0.00	0.00
ATOM	4603	CB	SER	X	305	20.160	33.134	51.278	0.00	0.00
ATOM	4604	HB2	SER	X	305	19.423	32.833	52.022	0.00	0.00
ATOM	4605	HB3	SER	X	305	20.127	34.218	51.172	0.00	0.00
ATOM	4606	OG	SER	X	305	19.830	32.644	50.006	0.00	0.00
ATOM	4607	HG	SER	X	305	19.771	31.687	50.059	0.00	0.00
ATOM	4608	C	SER	X	305	21.777	31.209	51.784	0.00	0.00
ATOM	4609	O	SER	X	305	20.904	30.430	52.235	0.00	0.00
ATOM	4610	N	ASP	X	306	22.908	30.773	51.227	0.00	0.00
ATOM	4611	H	ASP	X	306	23.549	31.347	50.698	0.00	0.00
ATOM	4612	CA	ASP	X	306	23.355	29.392	51.343	0.00	0.00
ATOM	4613	HA	ASP	X	306	23.209	29.112	52.387	0.00	0.00
ATOM	4614	CB	ASP	X	306	22.453	28.559	50.429	0.00	0.00
ATOM	4615	HB2	ASP	X	306	21.401	28.820	50.313	0.00	0.00
ATOM	4616	HB3	ASP	X	306	22.852	28.750	49.433	0.00	0.00
ATOM	4617	CG	ASP	X	306	22.524	27.066	50.810	0.00	0.00
ATOM	4618	OD1	ASP	X	306	23.210	26.733	51.763	0.00	0.00
ATOM	4619	OD2	ASP	X	306	21.876	26.285	50.074	0.00	0.00
ATOM	4620	C	ASP	X	306	24.810	29.393	50.846	0.00	0.00
ATOM	4621	O	ASP	X	306	25.394	30.461	50.665	0.00	0.00
ATOM	4622	N	THR	X	307	25.380	28.189	50.717	0.00	0.00

ATOM	4623	H	THR	X	307	24.808	27.414	51.020	0.00	0.00
ATOM	4624	CA	THR	X	307	26.606	27.867	49.890	0.00	0.00
ATOM	4625	HA	THR	X	307	27.473	28.233	50.441	0.00	0.00
ATOM	4626	CB	THR	X	307	26.629	26.338	49.735	0.00	0.00
ATOM	4627	HB	THR	X	307	25.703	26.000	49.268	0.00	0.00
ATOM	4628	CG2	THR	X	307	27.824	25.797	48.901	0.00	0.00
ATOM	4629	HG21	THR	X	307	27.771	26.346	47.961	0.00	0.00
ATOM	4630	HG22	THR	X	307	28.769	25.948	49.422	0.00	0.00
ATOM	4631	HG23	THR	X	307	27.615	24.731	48.803	0.00	0.00
ATOM	4632	OG1	THR	X	307	26.522	25.768	51.021	0.00	0.00
ATOM	4633	HG1	THR	X	307	25.756	25.192	51.078	0.00	0.00
ATOM	4634	C	THR	X	307	26.442	28.611	48.538	0.00	0.00
ATOM	4635	O	THR	X	307	25.507	28.278	47.865	0.00	0.00
ATOM	4636	N	PRO	X	308	27.342	29.477	48.068	0.00	0.00
ATOM	4637	CD	PRO	X	308	28.428	30.060	48.852	0.00	0.00
ATOM	4638	HD2	PRO	X	308	28.957	29.329	49.464	0.00	0.00
ATOM	4639	HD3	PRO	X	308	28.128	30.831	49.562	0.00	0.00
ATOM	4640	CG	PRO	X	308	29.346	30.882	47.984	0.00	0.00
ATOM	4641	HG2	PRO	X	308	30.277	30.359	47.766	0.00	0.00
ATOM	4642	HG3	PRO	X	308	29.555	31.911	48.276	0.00	0.00
ATOM	4643	CB	PRO	X	308	28.481	31.132	46.744	0.00	0.00
ATOM	4644	HB2	PRO	X	308	29.005	30.941	45.807	0.00	0.00
ATOM	4645	HB3	PRO	X	308	28.127	32.163	46.713	0.00	0.00
ATOM	4646	CA	PRO	X	308	27.344	30.155	46.769	0.00	0.00
ATOM	4647	HA	PRO	X	308	26.411	30.707	46.652	0.00	0.00
ATOM	4648	C	PRO	X	308	27.294	29.171	45.572	0.00	0.00
ATOM	4649	O	PRO	X	308	26.683	29.470	44.583	0.00	0.00
ATOM	4650	N	GLU	X	309	27.843	27.974	45.578	0.00	0.00
ATOM	4651	H	GLU	X	309	28.286	27.671	46.433	0.00	0.00
ATOM	4652	CA	GLU	X	309	27.614	26.900	44.580	0.00	0.00
ATOM	4653	HA	GLU	X	309	27.931	27.097	43.556	0.00	0.00
ATOM	4654	CB	GLU	X	309	28.451	25.711	45.040	0.00	0.00
ATOM	4655	HB2	GLU	X	309	29.472	26.065	45.182	0.00	0.00
ATOM	4656	HB3	GLU	X	309	28.110	25.175	45.926	0.00	0.00
ATOM	4657	CG	GLU	X	309	28.433	24.740	43.859	0.00	0.00
ATOM	4658	HG2	GLU	X	309	27.408	24.370	43.835	0.00	0.00
ATOM	4659	HG3	GLU	X	309	28.626	25.254	42.917	0.00	0.00
ATOM	4660	CD	GLU	X	309	29.326	23.530	44.034	0.00	0.00
ATOM	4661	OE1	GLU	X	309	28.763	22.450	44.361	0.00	0.00
ATOM	4662	OE2	GLU	X	309	30.563	23.594	43.928	0.00	0.00
ATOM	4663	C	GLU	X	309	26.131	26.577	44.501	0.00	0.00
ATOM	4664	O	GLU	X	309	25.646	26.484	43.370	0.00	0.00
ATOM	4665	N	ALA	X	310	25.359	26.451	45.597	0.00	0.00
ATOM	4666	H	ALA	X	310	25.836	26.561	46.481	0.00	0.00
ATOM	4667	CA	ALA	X	310	23.917	26.176	45.631	0.00	0.00
ATOM	4668	HA	ALA	X	310	23.704	25.333	44.973	0.00	0.00
ATOM	4669	CB	ALA	X	310	23.542	25.714	47.027	0.00	0.00
ATOM	4670	HB1	ALA	X	310	22.472	25.509	47.046	0.00	0.00
ATOM	4671	HB2	ALA	X	310	24.162	24.915	47.433	0.00	0.00
ATOM	4672	HB3	ALA	X	310	23.751	26.577	47.660	0.00	0.00
ATOM	4673	C	ALA	X	310	23.065	27.296	45.222	0.00	0.00
ATOM	4674	O	ALA	X	310	22.191	27.047	44.406	0.00	0.00
ATOM	4675	N	LEU	X	311	23.383	28.550	45.608	0.00	0.00
ATOM	4676	H	LEU	X	311	24.232	28.564	46.155	0.00	0.00
ATOM	4677	CA	LEU	X	311	22.950	29.836	45.020	0.00	0.00
ATOM	4678	HA	LEU	X	311	21.877	29.870	45.211	0.00	0.00
ATOM	4679	CB	LEU	X	311	23.609	30.992	45.819	0.00	0.00
ATOM	4680	HB2	LEU	X	311	24.678	30.975	45.606	0.00	0.00
ATOM	4681	HB3	LEU	X	311	23.248	31.981	45.535	0.00	0.00
ATOM	4682	CG	LEU	X	311	23.345	31.180	47.325	0.00	0.00
ATOM	4683	HG	LEU	X	311	23.761	30.304	47.822	0.00	0.00
ATOM	4684	CD1	LEU	X	311	24.136	32.281	47.986	0.00	0.00
ATOM	4685	HD11	LEU	X	311	23.937	33.184	47.410	0.00	0.00
ATOM	4686	HD12	LEU	X	311	23.769	32.402	49.005	0.00	0.00
ATOM	4687	HD13	LEU	X	311	25.215	32.130	47.941	0.00	0.00
ATOM	4688	CD2	LEU	X	311	21.888	31.384	47.664	0.00	0.00
ATOM	4689	HD21	LEU	X	311	21.763	31.076	48.703	0.00	0.00
ATOM	4690	HD22	LEU	X	311	21.620	32.426	47.491	0.00	0.00
ATOM	4691	HD23	LEU	X	311	21.249	30.681	47.130	0.00	0.00
ATOM	4692	C	LEU	X	311	23.110	30.015	43.601	0.00	0.00

ATOM	4693	O	LEU	X	311	22.091	30.400	42.976	0.00	0.00
ATOM	4694	N	ILE	X	312	24.259	29.707	42.968	0.00	0.00
ATOM	4695	H	ILE	X	312	24.964	29.168	43.450	0.00	0.00
ATOM	4696	CA	ILE	X	312	24.326	29.792	41.549	0.00	0.00
ATOM	4697	HA	ILE	X	312	24.001	30.781	41.226	0.00	0.00
ATOM	4698	CB	ILE	X	312	25.811	29.612	41.009	0.00	0.00
ATOM	4699	HB	ILE	X	312	26.160	28.714	41.519	0.00	0.00
ATOM	4700	CG2	ILE	X	312	25.866	29.438	39.414	0.00	0.00
ATOM	4701	HG21	ILE	X	312	25.631	28.442	39.037	0.00	0.00
ATOM	4702	HG22	ILE	X	312	25.258	30.116	38.816	0.00	0.00
ATOM	4703	HG23	ILE	X	312	26.905	29.566	39.108	0.00	0.00
ATOM	4704	CG1	ILE	X	312	26.747	30.719	41.420	0.00	0.00
ATOM	4705	HG12	ILE	X	312	26.754	31.495	40.656	0.00	0.00
ATOM	4706	HG13	ILE	X	312	26.642	31.198	42.394	0.00	0.00
ATOM	4707	CD1	ILE	X	312	28.141	30.041	41.607	0.00	0.00
ATOM	4708	HD11	ILE	X	312	28.803	30.844	41.932	0.00	0.00
ATOM	4709	HD12	ILE	X	312	28.201	29.266	42.370	0.00	0.00
ATOM	4710	HD13	ILE	X	312	28.491	29.650	40.652	0.00	0.00
ATOM	4711	C	ILE	X	312	23.300	28.891	40.929	0.00	0.00
ATOM	4712	O	ILE	X	312	22.463	29.348	40.161	0.00	0.00
ATOM	4713	N	ASN	X	313	23.235	27.592	41.315	0.00	0.00
ATOM	4714	H	ASN	X	313	23.957	27.203	41.905	0.00	0.00
ATOM	4715	CA	ASN	X	313	22.363	26.602	40.702	0.00	0.00
ATOM	4716	HA	ASN	X	313	22.499	26.704	39.625	0.00	0.00
ATOM	4717	CB	ASN	X	313	22.937	25.137	41.031	0.00	0.00
ATOM	4718	HB2	ASN	X	313	24.001	24.965	40.868	0.00	0.00
ATOM	4719	HB3	ASN	X	313	22.641	24.834	42.035	0.00	0.00
ATOM	4720	CG	ASN	X	313	22.207	24.016	40.198	0.00	0.00
ATOM	4721	OD1	ASN	X	313	22.175	22.873	40.602	0.00	0.00
ATOM	4722	ND2	ASN	X	313	21.962	24.266	38.936	0.00	0.00
ATOM	4723	HD21	ASN	X	313	21.318	23.625	38.496	0.00	0.00
ATOM	4724	HD22	ASN	X	313	22.083	25.219	38.623	0.00	0.00
ATOM	4725	C	ASN	X	313	20.854	26.821	41.007	0.00	0.00
ATOM	4726	O	ASN	X	313	19.980	26.340	40.317	0.00	0.00
ATOM	4727	N	ALA	X	314	20.528	27.460	42.120	0.00	0.00
ATOM	4728	H	ALA	X	314	21.307	27.713	42.711	0.00	0.00
ATOM	4729	CA	ALA	X	314	19.118	27.921	42.451	0.00	0.00
ATOM	4730	HA	ALA	X	314	18.450	27.132	42.104	0.00	0.00
ATOM	4731	CB	ALA	X	314	19.039	28.040	43.966	0.00	0.00
ATOM	4732	HB1	ALA	X	314	19.796	28.775	44.242	0.00	0.00
ATOM	4733	HB2	ALA	X	314	18.016	28.334	44.198	0.00	0.00
ATOM	4734	HB3	ALA	X	314	19.329	27.152	44.528	0.00	0.00
ATOM	4735	C	ALA	X	314	18.618	29.241	41.749	0.00	0.00
ATOM	4736	O	ALA	X	314	17.456	29.554	41.944	0.00	0.00
ATOM	4737	N	GLY	X	315	19.538	30.017	41.181	0.00	0.00
ATOM	4738	H	GLY	X	315	20.435	29.559	41.107	0.00	0.00
ATOM	4739	CA	GLY	X	315	19.364	31.345	40.564	0.00	0.00
ATOM	4740	HA2	GLY	X	315	18.730	31.980	41.236	0.00	0.00
ATOM	4741	HA3	GLY	X	315	20.345	31.778	40.595	0.00	0.00
ATOM	4742	C	GLY	X	315	18.839	31.411	39.124	0.00	0.00
ATOM	4743	O	GLY	X	315	18.322	30.461	38.479	0.00	0.00
ATOM	4744	N	ASP	X	316	18.773	32.655	38.664	0.00	0.00
ATOM	4745	H	ASP	X	316	19.097	33.434	39.219	0.00	0.00
ATOM	4746	CA	ASP	X	316	18.248	33.010	37.288	0.00	0.00
ATOM	4747	HA	ASP	X	316	18.569	32.235	36.593	0.00	0.00
ATOM	4748	CB	ASP	X	316	16.669	33.150	37.333	0.00	0.00
ATOM	4749	HB2	ASP	X	316	16.385	32.098	37.383	0.00	0.00
ATOM	4750	HB3	ASP	X	316	16.348	33.522	38.306	0.00	0.00
ATOM	4751	CG	ASP	X	316	15.948	33.778	36.115	0.00	0.00
ATOM	4752	OD1	ASP	X	316	15.932	35.014	35.964	0.00	0.00
ATOM	4753	OD2	ASP	X	316	15.610	32.992	35.241	0.00	0.00
ATOM	4754	C	ASP	X	316	18.900	34.288	36.850	0.00	0.00
ATOM	4755	O	ASP	X	316	19.000	35.231	37.675	0.00	0.00
ATOM	4756	N	PHE	X	317	19.426	34.266	35.636	0.00	0.00
ATOM	4757	H	PHE	X	317	19.156	33.506	35.028	0.00	0.00
ATOM	4758	CA	PHE	X	317	20.354	35.241	35.150	0.00	0.00
ATOM	4759	HA	PHE	X	317	20.281	36.174	35.708	0.00	0.00
ATOM	4760	CB	PHE	X	317	21.804	34.650	35.280	0.00	0.00
ATOM	4761	HB2	PHE	X	317	21.882	33.695	34.760	0.00	0.00
ATOM	4762	HB3	PHE	X	317	22.487	35.355	34.807	0.00	0.00

ATOM	4763	CG	PHE	X	317	22.209	34.514	36.720	0.00	0.00
ATOM	4764	CD1	PHE	X	317	22.434	35.632	37.513	0.00	0.00
ATOM	4765	HD1	PHE	X	317	22.133	36.582	37.097	0.00	0.00
ATOM	4766	CE1	PHE	X	317	22.562	35.399	38.914	0.00	0.00
ATOM	4767	HE1	PHE	X	317	22.539	36.309	39.496	0.00	0.00
ATOM	4768	CZ	PHE	X	317	22.564	34.058	39.409	0.00	0.00
ATOM	4769	HZ	PHE	X	317	22.577	33.843	40.467	0.00	0.00
ATOM	4770	CE2	PHE	X	317	22.401	32.949	38.558	0.00	0.00
ATOM	4771	HE2	PHE	X	317	22.502	31.950	38.957	0.00	0.00
ATOM	4772	CD2	PHE	X	317	22.246	33.222	37.179	0.00	0.00
ATOM	4773	HD2	PHE	X	317	22.165	32.363	36.529	0.00	0.00
ATOM	4774	C	PHE	X	317	19.929	35.553	33.681	0.00	0.00
ATOM	4775	O	PHE	X	317	20.786	35.866	32.860	0.00	0.00
ATOM	4776	N	HIE	X	318	18.693	35.322	33.300	0.00	0.00
ATOM	4777	H	HIE	X	318	18.024	35.145	34.036	0.00	0.00
ATOM	4778	CA	HIE	X	318	18.143	35.726	32.034	0.00	0.00
ATOM	4779	HA	HIE	X	318	18.532	35.026	31.295	0.00	0.00
ATOM	4780	CB	HIE	X	318	16.620	35.599	32.092	0.00	0.00
ATOM	4781	HB2	HIE	X	318	16.389	34.796	32.792	0.00	0.00
ATOM	4782	HB3	HIE	X	318	16.035	36.437	32.471	0.00	0.00
ATOM	4783	CG	HIE	X	318	16.064	35.346	30.712	0.00	0.00
ATOM	4784	ND1	HIE	X	318	15.171	36.208	30.080	0.00	0.00
ATOM	4785	CE1	HIE	X	318	14.923	35.683	28.833	0.00	0.00
ATOM	4786	HE1	HIE	X	318	14.219	36.084	28.119	0.00	0.00
ATOM	4787	NE2	HIE	X	318	15.413	34.465	28.745	0.00	0.00
ATOM	4788	HE2	HIE	X	318	15.346	33.865	27.936	0.00	0.00
ATOM	4789	CD2	HIE	X	318	16.209	34.283	29.863	0.00	0.00
ATOM	4790	HD2	HIE	X	318	16.915	33.484	30.037	0.00	0.00
ATOM	4791	C	HIE	X	318	18.610	37.112	31.586	0.00	0.00
ATOM	4792	O	HIE	X	318	18.532	38.069	32.384	0.00	0.00
ATOM	4793	N	GLY	X	319	19.078	37.214	30.335	0.00	0.00
ATOM	4794	H	GLY	X	319	19.245	36.364	29.816	0.00	0.00
ATOM	4795	CA	GLY	X	319	19.541	38.511	29.651	0.00	0.00
ATOM	4796	HA2	GLY	X	319	19.574	38.405	28.596	0.00	0.00
ATOM	4797	HA3	GLY	X	319	18.742	39.198	29.760	0.00	0.00
ATOM	4798	C	GLY	X	319	20.901	39.122	30.055	0.00	0.00
ATOM	4799	O	GLY	X	319	21.491	39.718	29.163	0.00	0.00
ATOM	4800	N	LEU	X	320	21.285	38.918	31.282	0.00	0.00
ATOM	4801	H	LEU	X	320	20.760	38.291	31.874	0.00	0.00
ATOM	4802	CA	LEU	X	320	22.587	39.416	31.797	0.00	0.00
ATOM	4803	HA	LEU	X	320	22.646	40.498	31.921	0.00	0.00
ATOM	4804	CB	LEU	X	320	22.670	38.849	33.235	0.00	0.00
ATOM	4805	HB2	LEU	X	320	21.740	39.044	33.769	0.00	0.00
ATOM	4806	HB3	LEU	X	320	22.657	37.761	33.166	0.00	0.00
ATOM	4807	CG	LEU	X	320	23.934	39.220	34.016	0.00	0.00
ATOM	4808	HG	LEU	X	320	24.824	38.695	33.669	0.00	0.00
ATOM	4809	CD1	LEU	X	320	24.483	40.735	33.893	0.00	0.00
ATOM	4810	HD11	LEU	X	320	23.652	41.436	33.980	0.00	0.00
ATOM	4811	HD12	LEU	X	320	25.293	40.880	34.608	0.00	0.00
ATOM	4812	HD13	LEU	X	320	24.893	40.958	32.908	0.00	0.00
ATOM	4813	CD2	LEU	X	320	23.759	38.975	35.535	0.00	0.00
ATOM	4814	HD21	LEU	X	320	22.864	39.405	35.984	0.00	0.00
ATOM	4815	HD22	LEU	X	320	23.605	37.897	35.566	0.00	0.00
ATOM	4816	HD23	LEU	X	320	24.575	39.136	36.239	0.00	0.00
ATOM	4817	C	LEU	X	320	23.721	38.875	30.919	0.00	0.00
ATOM	4818	O	LEU	X	320	23.822	37.684	30.607	0.00	0.00
ATOM	4819	N	GLN	X	321	24.736	39.702	30.553	0.00	0.00
ATOM	4820	H	GLN	X	321	24.687	40.691	30.752	0.00	0.00
ATOM	4821	CA	GLN	X	321	25.914	39.121	29.843	0.00	0.00
ATOM	4822	HA	GLN	X	321	25.713	38.106	29.498	0.00	0.00
ATOM	4823	CB	GLN	X	321	26.357	39.919	28.591	0.00	0.00
ATOM	4824	HB2	GLN	X	321	26.819	40.848	28.923	0.00	0.00
ATOM	4825	HB3	GLN	X	321	27.227	39.449	28.133	0.00	0.00
ATOM	4826	CG	GLN	X	321	25.293	40.262	27.517	0.00	0.00
ATOM	4827	HG2	GLN	X	321	25.828	40.392	26.576	0.00	0.00
ATOM	4828	HG3	GLN	X	321	24.482	39.535	27.531	0.00	0.00
ATOM	4829	CD	GLN	X	321	24.673	41.612	27.721	0.00	0.00
ATOM	4830	OE1	GLN	X	321	25.371	42.630	27.878	0.00	0.00
ATOM	4831	NE2	GLN	X	321	23.387	41.656	27.752	0.00	0.00
ATOM	4832	HE21	GLN	X	321	22.868	42.522	27.748	0.00	0.00

ATOM	4833	HE22	GLN	X	321	22.810	40.832	27.660	0.00	0.00
ATOM	4834	C	GLN	X	321	27.057	38.986	30.906	0.00	0.00
ATOM	4835	O	GLN	X	321	27.132	39.949	31.712	0.00	0.00
ATOM	4836	N	VAL	X	322	27.931	37.960	30.787	0.00	0.00
ATOM	4837	H	VAL	X	322	27.874	37.271	30.051	0.00	0.00
ATOM	4838	CA	VAL	X	322	29.109	37.750	31.701	0.00	0.00
ATOM	4839	HA	VAL	X	322	29.225	38.669	32.276	0.00	0.00
ATOM	4840	CB	VAL	X	322	28.873	36.647	32.705	0.00	0.00
ATOM	4841	HB	VAL	X	322	29.038	35.685	32.220	0.00	0.00
ATOM	4842	CG1	VAL	X	322	29.847	36.826	33.908	0.00	0.00
ATOM	4843	HG11	VAL	X	322	30.815	36.371	33.699	0.00	0.00
ATOM	4844	HG12	VAL	X	322	29.949	37.864	34.222	0.00	0.00
ATOM	4845	HG13	VAL	X	322	29.465	36.341	34.807	0.00	0.00
ATOM	4846	CG2	VAL	X	322	27.464	36.631	33.383	0.00	0.00
ATOM	4847	HG21	VAL	X	322	27.442	35.834	34.126	0.00	0.00
ATOM	4848	HG22	VAL	X	322	27.238	37.572	33.885	0.00	0.00
ATOM	4849	HG23	VAL	X	322	26.617	36.442	32.723	0.00	0.00
ATOM	4850	C	VAL	X	322	30.399	37.370	30.891	0.00	0.00
ATOM	4851	O	VAL	X	322	30.312	36.758	29.830	0.00	0.00
ATOM	4852	N	LEU	X	323	31.564	37.719	31.436	0.00	0.00
ATOM	4853	H	LEU	X	323	31.637	38.225	32.307	0.00	0.00
ATOM	4854	CA	LEU	X	323	32.895	37.190	30.929	0.00	0.00
ATOM	4855	HA	LEU	X	323	32.713	36.515	30.093	0.00	0.00
ATOM	4856	CB	LEU	X	323	33.739	38.342	30.403	0.00	0.00
ATOM	4857	HB2	LEU	X	323	33.002	39.048	30.021	0.00	0.00
ATOM	4858	HB3	LEU	X	323	34.379	38.627	31.239	0.00	0.00
ATOM	4859	CG	LEU	X	323	34.750	38.174	29.276	0.00	0.00
ATOM	4860	HG	LEU	X	323	34.530	37.226	28.784	0.00	0.00
ATOM	4861	CD1	LEU	X	323	34.638	39.177	28.139	0.00	0.00
ATOM	4862	HD11	LEU	X	323	33.619	38.924	27.845	0.00	0.00
ATOM	4863	HD12	LEU	X	323	34.836	40.205	28.445	0.00	0.00
ATOM	4864	HD13	LEU	X	323	35.216	38.848	27.276	0.00	0.00
ATOM	4865	CD2	LEU	X	323	36.199	38.207	29.688	0.00	0.00
ATOM	4866	HD21	LEU	X	323	36.447	37.364	30.332	0.00	0.00
ATOM	4867	HD22	LEU	X	323	36.922	38.009	28.896	0.00	0.00
ATOM	4868	HD23	LEU	X	323	36.281	39.113	30.287	0.00	0.00
ATOM	4869	C	LEU	X	323	33.506	36.445	32.112	0.00	0.00
ATOM	4870	O	LEU	X	323	33.255	36.772	33.294	0.00	0.00
ATOM	4871	N	VAL	X	324	34.253	35.353	31.887	0.00	0.00
ATOM	4872	H	VAL	X	324	34.454	35.036	30.949	0.00	0.00
ATOM	4873	CA	VAL	X	324	34.909	34.593	32.951	0.00	0.00
ATOM	4874	HA	VAL	X	324	35.208	35.247	33.771	0.00	0.00
ATOM	4875	CB	VAL	X	324	33.876	33.656	33.681	0.00	0.00
ATOM	4876	HB	VAL	X	324	33.006	34.269	33.917	0.00	0.00
ATOM	4877	CG1	VAL	X	324	33.243	32.578	32.865	0.00	0.00
ATOM	4878	HG11	VAL	X	324	32.923	33.039	31.931	0.00	0.00
ATOM	4879	HG12	VAL	X	324	33.962	31.807	32.587	0.00	0.00
ATOM	4880	HG13	VAL	X	324	32.372	32.120	33.333	0.00	0.00
ATOM	4881	CG2	VAL	X	324	34.360	33.210	35.126	0.00	0.00
ATOM	4882	HG21	VAL	X	324	35.013	32.350	34.977	0.00	0.00
ATOM	4883	HG22	VAL	X	324	34.977	33.929	35.665	0.00	0.00
ATOM	4884	HG23	VAL	X	324	33.492	32.839	35.671	0.00	0.00
ATOM	4885	C	VAL	X	324	36.144	33.744	32.479	0.00	0.00
ATOM	4886	O	VAL	X	324	36.223	33.465	31.284	0.00	0.00
ATOM	4887	N	GLY	X	325	37.082	33.356	33.378	0.00	0.00
ATOM	4888	H	GLY	X	325	36.900	33.609	34.339	0.00	0.00
ATOM	4889	CA	GLY	X	325	38.255	32.562	33.018	0.00	0.00
ATOM	4890	HA2	GLY	X	325	38.108	31.472	33.112	0.00	0.00
ATOM	4891	HA3	GLY	X	325	38.452	32.671	31.878	0.00	0.00
ATOM	4892	C	GLY	X	325	39.581	32.980	33.689	0.00	0.00
ATOM	4893	O	GLY	X	325	39.682	33.730	34.653	0.00	0.00
ATOM	4894	N	VAL	X	326	40.632	32.479	33.151	0.00	0.00
ATOM	4895	H	VAL	X	326	40.528	31.975	32.282	0.00	0.00
ATOM	4896	CA	VAL	X	326	41.806	32.103	33.991	0.00	0.00
ATOM	4897	HA	VAL	X	326	41.855	32.818	34.812	0.00	0.00
ATOM	4898	CB	VAL	X	326	41.534	30.733	34.685	0.00	0.00
ATOM	4899	HB	VAL	X	326	42.439	30.355	35.161	0.00	0.00
ATOM	4900	CG1	VAL	X	326	40.385	30.702	35.753	0.00	0.00
ATOM	4901	HG11	VAL	X	326	39.518	31.293	35.458	0.00	0.00
ATOM	4902	HG12	VAL	X	326	40.064	29.724	36.112	0.00	0.00

ATOM	4903	HG13	VAL	X	326	40.842	31.168	36.626	0.00	0.00
ATOM	4904	CG2	VAL	X	326	41.242	29.620	33.656	0.00	0.00
ATOM	4905	HG21	VAL	X	326	40.381	29.986	33.096	0.00	0.00
ATOM	4906	HG22	VAL	X	326	42.048	29.493	32.933	0.00	0.00
ATOM	4907	HG23	VAL	X	326	41.047	28.640	34.091	0.00	0.00
ATOM	4908	C	VAL	X	326	43.108	32.047	33.138	0.00	0.00
ATOM	4909	O	VAL	X	326	43.081	32.276	31.963	0.00	0.00
ATOM	4910	N	VAL	X	327	44.186	31.723	33.749	0.00	0.00
ATOM	4911	H	VAL	X	327	44.185	31.539	34.742	0.00	0.00
ATOM	4912	CA	VAL	X	327	45.524	31.442	33.132	0.00	0.00
ATOM	4913	HA	VAL	X	327	45.489	31.896	32.142	0.00	0.00
ATOM	4914	CB	VAL	X	327	46.762	32.131	33.733	0.00	0.00
ATOM	4915	HB	VAL	X	327	47.607	32.123	33.044	0.00	0.00
ATOM	4916	CG1	VAL	X	327	46.571	33.562	34.212	0.00	0.00
ATOM	4917	HG11	VAL	X	327	45.887	33.574	35.061	0.00	0.00
ATOM	4918	HG12	VAL	X	327	47.504	34.074	34.445	0.00	0.00
ATOM	4919	HG13	VAL	X	327	46.203	34.169	33.384	0.00	0.00
ATOM	4920	CG2	VAL	X	327	47.169	31.446	34.984	0.00	0.00
ATOM	4921	HG21	VAL	X	327	47.432	30.423	34.715	0.00	0.00
ATOM	4922	HG22	VAL	X	327	48.113	31.889	35.302	0.00	0.00
ATOM	4923	HG23	VAL	X	327	46.345	31.501	35.695	0.00	0.00
ATOM	4924	C	VAL	X	327	45.756	29.904	32.959	0.00	0.00
ATOM	4925	O	VAL	X	327	44.984	29.155	33.529	0.00	0.00
ATOM	4926	N	LYS	X	328	46.646	29.324	32.189	0.00	0.00
ATOM	4927	H	LYS	X	328	47.064	30.016	31.583	0.00	0.00
ATOM	4928	CA	LYS	X	328	47.040	27.961	32.072	0.00	0.00
ATOM	4929	HA	LYS	X	328	46.232	27.361	31.655	0.00	0.00
ATOM	4930	CB	LYS	X	328	48.153	28.003	30.933	0.00	0.00
ATOM	4931	HB2	LYS	X	328	47.789	28.531	30.052	0.00	0.00
ATOM	4932	HB3	LYS	X	328	48.981	28.552	31.381	0.00	0.00
ATOM	4933	CG	LYS	X	328	48.549	26.503	30.649	0.00	0.00
ATOM	4934	HG2	LYS	X	328	49.114	26.108	31.493	0.00	0.00
ATOM	4935	HG3	LYS	X	328	47.659	25.936	30.376	0.00	0.00
ATOM	4936	CD	LYS	X	328	49.508	26.462	29.436	0.00	0.00
ATOM	4937	HD2	LYS	X	328	49.038	26.762	28.500	0.00	0.00
ATOM	4938	HD3	LYS	X	328	50.297	27.201	29.574	0.00	0.00
ATOM	4939	CE	LYS	X	328	50.248	25.144	29.319	0.00	0.00
ATOM	4940	HE2	LYS	X	328	50.967	25.364	28.530	0.00	0.00
ATOM	4941	HE3	LYS	X	328	50.794	24.918	30.235	0.00	0.00
ATOM	4942	NZ	LYS	X	328	49.249	24.051	29.046	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	48.784	23.757	29.893	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	48.514	24.330	28.413	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	49.659	23.211	28.664	0.00	0.00
ATOM	4946	C	LYS	X	328	47.488	27.255	33.349	0.00	0.00
ATOM	4947	O	LYS	X	328	46.996	26.170	33.654	0.00	0.00
ATOM	4948	N	ASP	X	329	48.195	27.998	34.202	0.00	0.00
ATOM	4949	H	ASP	X	329	48.477	28.939	33.965	0.00	0.00
ATOM	4950	CA	ASP	X	329	48.715	27.509	35.477	0.00	0.00
ATOM	4951	HA	ASP	X	329	48.188	26.573	35.662	0.00	0.00
ATOM	4952	CB	ASP	X	329	50.254	27.247	35.401	0.00	0.00
ATOM	4953	HB2	ASP	X	329	50.761	28.207	35.495	0.00	0.00
ATOM	4954	HB3	ASP	X	329	50.540	26.656	36.271	0.00	0.00
ATOM	4955	CG	ASP	X	329	50.849	26.502	34.197	0.00	0.00
ATOM	4956	OD1	ASP	X	329	50.934	25.241	34.320	0.00	0.00
ATOM	4957	OD2	ASP	X	329	51.237	27.175	33.237	0.00	0.00
ATOM	4958	C	ASP	X	329	48.311	28.374	36.706	0.00	0.00
ATOM	4959	O	ASP	X	329	49.050	29.217	37.176	0.00	0.00
ATOM	4960	N	GLU	X	330	47.033	28.284	37.094	0.00	0.00
ATOM	4961	H	GLU	X	330	46.462	27.494	36.829	0.00	0.00
ATOM	4962	CA	GLU	X	330	46.566	28.899	38.313	0.00	0.00
ATOM	4963	HA	GLU	X	330	46.701	29.975	38.205	0.00	0.00
ATOM	4964	CB	GLU	X	330	45.076	28.748	38.591	0.00	0.00
ATOM	4965	HB2	GLU	X	330	44.938	27.668	38.643	0.00	0.00
ATOM	4966	HB3	GLU	X	330	44.775	29.227	39.523	0.00	0.00
ATOM	4967	CG	GLU	X	330	44.260	29.411	37.484	0.00	0.00
ATOM	4968	HG2	GLU	X	330	44.639	29.044	36.531	0.00	0.00
ATOM	4969	HG3	GLU	X	330	43.203	29.179	37.609	0.00	0.00
ATOM	4970	CD	GLU	X	330	44.285	30.891	37.554	0.00	0.00
ATOM	4971	OE1	GLU	X	330	44.660	31.446	38.587	0.00	0.00
ATOM	4972	OE2	GLU	X	330	43.952	31.571	36.547	0.00	0.00

ATOM	4973	C	GLU	X	330	47.356	28.391	39.534	0.00	0.00
ATOM	4974	O	GLU	X	330	47.700	29.141	40.408	0.00	0.00
ATOM	4975	N	GLY	X	331	47.722	27.093	39.568	0.00	0.00
ATOM	4976	H	GLY	X	331	47.706	26.645	38.663	0.00	0.00
ATOM	4977	CA	GLY	X	331	48.283	26.353	40.688	0.00	0.00
ATOM	4978	HA2	GLY	X	331	47.874	26.788	41.575	0.00	0.00
ATOM	4979	HA3	GLY	X	331	47.911	25.355	40.589	0.00	0.00
ATOM	4980	C	GLY	X	331	49.801	26.192	40.796	0.00	0.00
ATOM	4981	O	GLY	X	331	50.263	25.822	41.839	0.00	0.00
ATOM	4982	N	SER	X	332	50.642	26.550	39.810	0.00	0.00
ATOM	4983	H	SER	X	332	50.230	26.971	38.989	0.00	0.00
ATOM	4984	CA	SER	X	332	52.090	26.690	40.029	0.00	0.00
ATOM	4985	HA	SER	X	332	52.544	25.777	40.413	0.00	0.00
ATOM	4986	CB	SER	X	332	52.817	27.069	38.739	0.00	0.00
ATOM	4987	HB2	SER	X	332	53.787	27.459	39.045	0.00	0.00
ATOM	4988	HB3	SER	X	332	52.918	26.257	38.018	0.00	0.00
ATOM	4989	OG	SER	X	332	52.135	28.009	37.914	0.00	0.00
ATOM	4990	HG	SER	X	332	52.729	28.015	37.160	0.00	0.00
ATOM	4991	C	SER	X	332	52.326	27.855	41.098	0.00	0.00
ATOM	4992	O	SER	X	332	53.084	27.571	42.048	0.00	0.00
ATOM	4993	N	TYR	X	333	51.442	28.860	41.118	0.00	0.00
ATOM	4994	H	TYR	X	333	50.720	28.812	40.414	0.00	0.00
ATOM	4995	CA	TYR	X	333	51.395	30.034	42.044	0.00	0.00
ATOM	4996	HA	TYR	X	333	52.359	30.542	42.082	0.00	0.00
ATOM	4997	CB	TYR	X	333	50.413	31.011	41.450	0.00	0.00
ATOM	4998	HB2	TYR	X	333	50.712	31.160	40.412	0.00	0.00
ATOM	4999	HB3	TYR	X	333	49.388	30.641	41.416	0.00	0.00
ATOM	5000	CG	TYR	X	333	50.404	32.379	42.220	0.00	0.00
ATOM	5001	CD1	TYR	X	333	51.302	33.355	41.800	0.00	0.00
ATOM	5002	HD1	TYR	X	333	51.969	33.233	40.959	0.00	0.00
ATOM	5003	CE1	TYR	X	333	51.484	34.586	42.433	0.00	0.00
ATOM	5004	HE1	TYR	X	333	52.232	35.303	42.130	0.00	0.00
ATOM	5005	CZ	TYR	X	333	50.657	34.796	43.561	0.00	0.00
ATOM	5006	OH	TYR	X	333	50.719	36.030	44.160	0.00	0.00
ATOM	5007	HH	TYR	X	333	51.422	36.544	43.757	0.00	0.00
ATOM	5008	CE2	TYR	X	333	49.727	33.822	44.028	0.00	0.00
ATOM	5009	HE2	TYR	X	333	49.218	33.888	44.978	0.00	0.00
ATOM	5010	CD2	TYR	X	333	49.647	32.612	43.333	0.00	0.00
ATOM	5011	HD2	TYR	X	333	48.969	31.859	43.708	0.00	0.00
ATOM	5012	C	TYR	X	333	51.049	29.572	43.502	0.00	0.00
ATOM	5013	O	TYR	X	333	51.768	29.763	44.467	0.00	0.00
ATOM	5014	N	PHE	X	334	49.859	28.987	43.712	0.00	0.00
ATOM	5015	H	PHE	X	334	49.188	28.925	42.960	0.00	0.00
ATOM	5016	CA	PHE	X	334	49.370	28.339	44.924	0.00	0.00
ATOM	5017	HA	PHE	X	334	49.322	29.180	45.615	0.00	0.00
ATOM	5018	CB	PHE	X	334	47.925	27.829	44.778	0.00	0.00
ATOM	5019	HB2	PHE	X	334	48.096	26.893	44.245	0.00	0.00
ATOM	5020	HB3	PHE	X	334	47.578	27.740	45.807	0.00	0.00
ATOM	5021	CG	PHE	X	334	46.997	28.674	43.966	0.00	0.00
ATOM	5022	CD1	PHE	X	334	46.189	28.020	43.081	0.00	0.00
ATOM	5023	HD1	PHE	X	334	46.240	26.957	42.899	0.00	0.00
ATOM	5024	CE1	PHE	X	334	45.214	28.754	42.386	0.00	0.00
ATOM	5025	HE1	PHE	X	334	44.600	28.194	41.697	0.00	0.00
ATOM	5026	CZ	PHE	X	334	45.061	30.128	42.678	0.00	0.00
ATOM	5027	HZ	PHE	X	334	44.282	30.639	42.132	0.00	0.00
ATOM	5028	CE2	PHE	X	334	45.918	30.822	43.598	0.00	0.00
ATOM	5029	HE2	PHE	X	334	45.760	31.858	43.859	0.00	0.00
ATOM	5030	CD2	PHE	X	334	46.927	30.057	44.245	0.00	0.00
ATOM	5031	HD2	PHE	X	334	47.519	30.445	45.061	0.00	0.00
ATOM	5032	C	PHE	X	334	50.292	27.240	45.464	0.00	0.00
ATOM	5033	O	PHE	X	334	50.433	27.160	46.673	0.00	0.00
ATOM	5034	N	LEU	X	335	51.037	26.464	44.641	0.00	0.00
ATOM	5035	H	LEU	X	335	51.077	26.704	43.661	0.00	0.00
ATOM	5036	CA	LEU	X	335	52.200	25.647	45.091	0.00	0.00
ATOM	5037	HA	LEU	X	335	51.792	24.949	45.823	0.00	0.00
ATOM	5038	CB	LEU	X	335	52.696	24.799	43.989	0.00	0.00
ATOM	5039	HB2	LEU	X	335	52.781	25.351	43.053	0.00	0.00
ATOM	5040	HB3	LEU	X	335	53.603	24.340	44.383	0.00	0.00
ATOM	5041	CG	LEU	X	335	51.736	23.612	43.773	0.00	0.00
ATOM	5042	HG	LEU	X	335	50.694	23.870	43.580	0.00	0.00

ATOM	5043	CD1	LEU	X	335	52.165	22.766	42.538	0.00	0.00
ATOM	5044	HD11	LEU	X	335	52.026	23.316	41.608	0.00	0.00
ATOM	5045	HD12	LEU	X	335	53.174	22.418	42.758	0.00	0.00
ATOM	5046	HD13	LEU	X	335	51.630	21.820	42.454	0.00	0.00
ATOM	5047	CD2	LEU	X	335	51.757	22.639	44.979	0.00	0.00
ATOM	5048	HD21	LEU	X	335	51.381	23.123	45.880	0.00	0.00
ATOM	5049	HD22	LEU	X	335	51.069	21.831	44.728	0.00	0.00
ATOM	5050	HD23	LEU	X	335	52.733	22.183	45.149	0.00	0.00
ATOM	5051	C	LEU	X	335	53.254	26.582	45.743	0.00	0.00
ATOM	5052	O	LEU	X	335	53.431	26.511	46.904	0.00	0.00
ATOM	5053	N	VAL	X	336	54.041	27.312	44.941	0.00	0.00
ATOM	5054	H	VAL	X	336	53.902	27.230	43.944	0.00	0.00
ATOM	5055	CA	VAL	X	336	55.124	28.157	45.446	0.00	0.00
ATOM	5056	HA	VAL	X	336	55.797	27.427	45.895	0.00	0.00
ATOM	5057	CB	VAL	X	336	55.932	28.839	44.349	0.00	0.00
ATOM	5058	HB	VAL	X	336	56.846	29.189	44.828	0.00	0.00
ATOM	5059	CG1	VAL	X	336	56.539	27.774	43.327	0.00	0.00
ATOM	5060	HG11	VAL	X	336	57.335	28.305	42.805	0.00	0.00
ATOM	5061	HG12	VAL	X	336	56.994	26.956	43.885	0.00	0.00
ATOM	5062	HG13	VAL	X	336	55.824	27.424	42.582	0.00	0.00
ATOM	5063	CG2	VAL	X	336	55.247	29.931	43.516	0.00	0.00
ATOM	5064	HG21	VAL	X	336	54.611	30.611	44.083	0.00	0.00
ATOM	5065	HG22	VAL	X	336	56.021	30.464	42.964	0.00	0.00
ATOM	5066	HG23	VAL	X	336	54.649	29.466	42.732	0.00	0.00
ATOM	5067	C	VAL	X	336	54.744	29.126	46.588	0.00	0.00
ATOM	5068	O	VAL	X	336	55.551	29.351	47.490	0.00	0.00
ATOM	5069	N	TYR	X	337	53.565	29.765	46.629	0.00	0.00
ATOM	5070	H	TYR	X	337	52.951	29.502	45.872	0.00	0.00
ATOM	5071	CA	TYR	X	337	53.191	30.824	47.587	0.00	0.00
ATOM	5072	HA	TYR	X	337	54.101	31.400	47.757	0.00	0.00
ATOM	5073	CB	TYR	X	337	52.150	31.716	46.907	0.00	0.00
ATOM	5074	HB2	TYR	X	337	52.496	31.672	45.874	0.00	0.00
ATOM	5075	HB3	TYR	X	337	51.180	31.226	46.987	0.00	0.00
ATOM	5076	CG	TYR	X	337	52.098	33.204	47.269	0.00	0.00
ATOM	5077	CD1	TYR	X	337	51.241	33.660	48.334	0.00	0.00
ATOM	5078	HD1	TYR	X	337	50.760	32.918	48.955	0.00	0.00
ATOM	5079	CE1	TYR	X	337	51.262	34.991	48.778	0.00	0.00
ATOM	5080	HE1	TYR	X	337	50.723	35.296	49.663	0.00	0.00
ATOM	5081	CZ	TYR	X	337	51.976	35.924	48.045	0.00	0.00
ATOM	5082	OH	TYR	X	337	51.944	37.257	48.507	0.00	0.00
ATOM	5083	HH	TYR	X	337	51.485	37.451	49.328	0.00	0.00
ATOM	5084	CE2	TYR	X	337	52.724	35.571	46.888	0.00	0.00
ATOM	5085	HE2	TYR	X	337	53.332	36.229	46.284	0.00	0.00
ATOM	5086	CD2	TYR	X	337	52.815	34.184	46.578	0.00	0.00
ATOM	5087	HD2	TYR	X	337	53.490	33.832	45.812	0.00	0.00
ATOM	5088	C	TYR	X	337	52.485	30.233	48.891	0.00	0.00
ATOM	5089	O	TYR	X	337	52.181	30.963	49.841	0.00	0.00
ATOM	5090	N	GLY	X	338	52.132	28.978	48.827	0.00	0.00
ATOM	5091	H	GLY	X	338	52.353	28.589	47.922	0.00	0.00
ATOM	5092	CA	GLY	X	338	51.260	28.219	49.756	0.00	0.00
ATOM	5093	HA2	GLY	X	338	51.084	28.914	50.622	0.00	0.00
ATOM	5094	HA3	GLY	X	338	50.466	28.013	49.130	0.00	0.00
ATOM	5095	C	GLY	X	338	51.746	26.911	50.338	0.00	0.00
ATOM	5096	O	GLY	X	338	51.656	26.701	51.604	0.00	0.00
ATOM	5097	N	ALA	X	339	52.244	26.019	49.470	0.00	0.00
ATOM	5098	H	ALA	X	339	52.304	26.315	48.506	0.00	0.00
ATOM	5099	CA	ALA	X	339	52.815	24.693	49.897	0.00	0.00
ATOM	5100	HA	ALA	X	339	52.117	24.168	50.548	0.00	0.00
ATOM	5101	CB	ALA	X	339	52.939	23.828	48.643	0.00	0.00
ATOM	5102	HB1	ALA	X	339	53.714	24.071	47.915	0.00	0.00
ATOM	5103	HB2	ALA	X	339	53.095	22.801	48.973	0.00	0.00
ATOM	5104	HB3	ALA	X	339	52.037	23.828	48.032	0.00	0.00
ATOM	5105	C	ALA	X	339	54.122	24.674	50.781	0.00	0.00
ATOM	5106	O	ALA	X	339	54.939	25.497	50.471	0.00	0.00
ATOM	5107	N	PRO	X	340	54.431	23.688	51.630	0.00	0.00
ATOM	5108	CD	PRO	X	340	53.589	22.588	52.032	0.00	0.00
ATOM	5109	HD2	PRO	X	340	52.872	22.199	51.309	0.00	0.00
ATOM	5110	HD3	PRO	X	340	53.046	22.912	52.920	0.00	0.00
ATOM	5111	CG	PRO	X	340	54.463	21.450	52.424	0.00	0.00
ATOM	5112	HG2	PRO	X	340	54.626	20.864	51.520	0.00	0.00

ATOM	5113	HG3	PRO	X	340	53.996	20.781	53.147	0.00	0.00
ATOM	5114	CB	PRO	X	340	55.791	22.117	52.798	0.00	0.00
ATOM	5115	HB2	PRO	X	340	56.687	21.526	52.613	0.00	0.00
ATOM	5116	HB3	PRO	X	340	55.734	22.455	53.832	0.00	0.00
ATOM	5117	CA	PRO	X	340	55.904	23.409	52.029	0.00	0.00
ATOM	5118	HA	PRO	X	340	56.263	24.226	52.654	0.00	0.00
ATOM	5119	C	PRO	X	340	56.819	23.285	50.859	0.00	0.00
ATOM	5120	O	PRO	X	340	56.446	22.701	49.886	0.00	0.00
ATOM	5121	N	GLY	X	341	58.074	23.723	50.998	0.00	0.00
ATOM	5122	H	GLY	X	341	58.294	24.221	51.849	0.00	0.00
ATOM	5123	CA	GLY	X	341	59.248	23.434	50.153	0.00	0.00
ATOM	5124	HA2	GLY	X	341	60.117	23.967	50.614	0.00	0.00
ATOM	5125	HA3	GLY	X	341	59.485	22.338	50.088	0.00	0.00
ATOM	5126	C	GLY	X	341	59.146	23.813	48.677	0.00	0.00
ATOM	5127	O	GLY	X	341	60.096	23.743	47.948	0.00	0.00
ATOM	5128	N	PHE	X	342	57.969	24.238	48.219	0.00	0.00
ATOM	5129	H	PHE	X	342	57.215	24.401	48.870	0.00	0.00
ATOM	5130	CA	PHE	X	342	57.860	24.977	46.946	0.00	0.00
ATOM	5131	HA	PHE	X	342	58.595	24.552	46.262	0.00	0.00
ATOM	5132	CB	PHE	X	342	56.544	24.835	46.196	0.00	0.00
ATOM	5133	HB2	PHE	X	342	55.770	25.200	46.871	0.00	0.00
ATOM	5134	HB3	PHE	X	342	56.503	25.409	45.271	0.00	0.00
ATOM	5135	CG	PHE	X	342	56.030	23.422	45.801	0.00	0.00
ATOM	5136	CD1	PHE	X	342	56.055	23.186	44.439	0.00	0.00
ATOM	5137	HD1	PHE	X	342	56.420	23.960	43.780	0.00	0.00
ATOM	5138	CE1	PHE	X	342	55.756	21.932	43.930	0.00	0.00
ATOM	5139	HE1	PHE	X	342	55.827	21.622	42.898	0.00	0.00
ATOM	5140	CZ	PHE	X	342	55.322	20.986	44.860	0.00	0.00
ATOM	5141	HZ	PHE	X	342	55.089	19.983	44.532	0.00	0.00
ATOM	5142	CE2	PHE	X	342	55.228	21.214	46.228	0.00	0.00
ATOM	5143	HE2	PHE	X	342	55.001	20.451	46.958	0.00	0.00
ATOM	5144	CD2	PHE	X	342	55.589	22.497	46.737	0.00	0.00
ATOM	5145	HD2	PHE	X	342	55.439	22.670	47.792	0.00	0.00
ATOM	5146	C	PHE	X	342	58.221	26.463	47.131	0.00	0.00
ATOM	5147	O	PHE	X	342	57.862	27.049	48.173	0.00	0.00
ATOM	5148	N	SER	X	343	58.852	27.116	46.214	0.00	0.00
ATOM	5149	H	SER	X	343	59.118	26.567	45.409	0.00	0.00
ATOM	5150	CA	SER	X	343	59.248	28.520	46.245	0.00	0.00
ATOM	5151	HA	SER	X	343	58.397	29.152	46.497	0.00	0.00
ATOM	5152	CB	SER	X	343	60.319	28.730	47.397	0.00	0.00
ATOM	5153	HB2	SER	X	343	59.730	28.610	48.306	0.00	0.00
ATOM	5154	HB3	SER	X	343	61.210	28.103	47.353	0.00	0.00
ATOM	5155	OG	SER	X	343	60.748	30.047	47.371	0.00	0.00
ATOM	5156	HG	SER	X	343	61.009	30.252	48.271	0.00	0.00
ATOM	5157	C	SER	X	343	59.857	28.890	44.901	0.00	0.00
ATOM	5158	O	SER	X	343	60.191	28.087	44.017	0.00	0.00
ATOM	5159	N	LYS	X	344	59.951	30.228	44.667	0.00	0.00
ATOM	5160	H	LYS	X	344	59.600	30.910	45.323	0.00	0.00
ATOM	5161	CA	LYS	X	344	60.623	30.775	43.477	0.00	0.00
ATOM	5162	HA	LYS	X	344	60.105	30.393	42.597	0.00	0.00
ATOM	5163	CB	LYS	X	344	60.541	32.354	43.526	0.00	0.00
ATOM	5164	HB2	LYS	X	344	61.099	32.717	42.663	0.00	0.00
ATOM	5165	HB3	LYS	X	344	59.465	32.524	43.558	0.00	0.00
ATOM	5166	CG	LYS	X	344	61.279	32.954	44.767	0.00	0.00
ATOM	5167	HG2	LYS	X	344	60.812	32.622	45.694	0.00	0.00
ATOM	5168	HG3	LYS	X	344	62.343	32.721	44.811	0.00	0.00
ATOM	5169	CD	LYS	X	344	61.201	34.508	44.812	0.00	0.00
ATOM	5170	HD2	LYS	X	344	60.200	34.885	44.603	0.00	0.00
ATOM	5171	HD3	LYS	X	344	61.658	34.822	45.751	0.00	0.00
ATOM	5172	CE	LYS	X	344	62.077	35.167	43.741	0.00	0.00
ATOM	5173	HE2	LYS	X	344	61.888	34.744	42.755	0.00	0.00
ATOM	5174	HE3	LYS	X	344	61.623	36.128	43.503	0.00	0.00
ATOM	5175	NZ	LYS	X	344	63.486	35.267	44.021	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	63.882	35.892	43.333	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	63.642	35.772	44.882	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	63.923	34.374	43.848	0.00	0.00
ATOM	5179	C	LYS	X	344	62.056	30.235	43.320	0.00	0.00
ATOM	5180	O	LYS	X	344	62.641	30.197	42.227	0.00	0.00
ATOM	5181	N	ASP	X	345	62.672	29.889	44.501	0.00	0.00
ATOM	5182	H	ASP	X	345	62.083	29.953	45.320	0.00	0.00

ATOM	5183	CA	ASP	X	345	64.033	29.446	44.640	0.00	0.00
ATOM	5184	HA	ASP	X	345	64.672	29.967	43.928	0.00	0.00
ATOM	5185	CB	ASP	X	345	64.584	29.737	46.105	0.00	0.00
ATOM	5186	HB2	ASP	X	345	64.238	30.716	46.439	0.00	0.00
ATOM	5187	HB3	ASP	X	345	64.212	29.005	46.822	0.00	0.00
ATOM	5188	CG	ASP	X	345	66.104	29.833	46.167	0.00	0.00
ATOM	5189	OD1	ASP	X	345	66.655	30.578	45.350	0.00	0.00
ATOM	5190	OD2	ASP	X	345	66.699	29.188	47.109	0.00	0.00
ATOM	5191	C	ASP	X	345	64.344	27.984	44.313	0.00	0.00
ATOM	5192	O	ASP	X	345	65.500	27.554	44.385	0.00	0.00
ATOM	5193	N	ASN	X	346	63.333	27.149	43.966	0.00	0.00
ATOM	5194	H	ASN	X	346	62.366	27.393	44.128	0.00	0.00
ATOM	5195	CA	ASN	X	346	63.694	25.752	43.660	0.00	0.00
ATOM	5196	HA	ASN	X	346	64.744	25.686	43.374	0.00	0.00
ATOM	5197	CB	ASN	X	346	63.625	24.872	44.929	0.00	0.00
ATOM	5198	HB2	ASN	X	346	64.336	25.362	45.594	0.00	0.00
ATOM	5199	HB3	ASN	X	346	62.565	24.764	45.160	0.00	0.00
ATOM	5200	CG	ASN	X	346	64.283	23.512	44.769	0.00	0.00
ATOM	5201	OD1	ASN	X	346	64.769	23.142	43.750	0.00	0.00
ATOM	5202	ND2	ASN	X	346	64.089	22.663	45.759	0.00	0.00
ATOM	5203	HD21	ASN	X	346	64.522	21.750	45.737	0.00	0.00
ATOM	5204	HD22	ASN	X	346	63.738	22.919	46.670	0.00	0.00
ATOM	5205	C	ASN	X	346	62.780	25.137	42.589	0.00	0.00
ATOM	5206	O	ASN	X	346	61.580	24.969	42.767	0.00	0.00
ATOM	5207	N	GLU	X	347	63.301	24.717	41.391	0.00	0.00
ATOM	5208	H	GLU	X	347	64.279	24.875	41.192	0.00	0.00
ATOM	5209	CA	GLU	X	347	62.645	23.798	40.496	0.00	0.00
ATOM	5210	HA	GLU	X	347	61.599	24.090	40.413	0.00	0.00
ATOM	5211	CB	GLU	X	347	63.281	23.982	39.077	0.00	0.00
ATOM	5212	HB2	GLU	X	347	63.073	25.033	38.878	0.00	0.00
ATOM	5213	HB3	GLU	X	347	64.347	23.755	39.061	0.00	0.00
ATOM	5214	CG	GLU	X	347	62.637	23.179	38.026	0.00	0.00
ATOM	5215	HG2	GLU	X	347	62.896	22.132	38.190	0.00	0.00
ATOM	5216	HG3	GLU	X	347	61.553	23.094	38.110	0.00	0.00
ATOM	5217	CD	GLU	X	347	62.968	23.480	36.603	0.00	0.00
ATOM	5218	OE1	GLU	X	347	63.534	24.588	36.305	0.00	0.00
ATOM	5219	OE2	GLU	X	347	62.573	22.626	35.735	0.00	0.00
ATOM	5220	C	GLU	X	347	62.569	22.334	41.021	0.00	0.00
ATOM	5221	O	GLU	X	347	63.259	21.449	40.547	0.00	0.00
ATOM	5222	N	SER	X	348	61.795	22.156	42.079	0.00	0.00
ATOM	5223	H	SER	X	348	61.111	22.872	42.275	0.00	0.00
ATOM	5224	CA	SER	X	348	61.779	21.014	42.998	0.00	0.00
ATOM	5225	HA	SER	X	348	62.661	20.988	43.638	0.00	0.00
ATOM	5226	CB	SER	X	348	60.547	21.083	43.832	0.00	0.00
ATOM	5227	HB2	SER	X	348	59.689	21.085	43.159	0.00	0.00
ATOM	5228	HB3	SER	X	348	60.421	20.155	44.389	0.00	0.00
ATOM	5229	OG	SER	X	348	60.596	22.182	44.682	0.00	0.00
ATOM	5230	HG	SER	X	348	60.141	21.925	45.487	0.00	0.00
ATOM	5231	C	SER	X	348	61.644	19.647	42.301	0.00	0.00
ATOM	5232	O	SER	X	348	60.693	19.387	41.541	0.00	0.00
ATOM	5233	N	LEU	X	349	62.565	18.753	42.742	0.00	0.00
ATOM	5234	H	LEU	X	349	63.247	19.028	43.434	0.00	0.00
ATOM	5235	CA	LEU	X	349	62.559	17.321	42.330	0.00	0.00
ATOM	5236	HA	LEU	X	349	62.091	17.245	41.348	0.00	0.00
ATOM	5237	CB	LEU	X	349	63.989	16.832	42.264	0.00	0.00
ATOM	5238	HB2	LEU	X	349	64.406	16.985	43.260	0.00	0.00
ATOM	5239	HB3	LEU	X	349	63.916	15.761	42.075	0.00	0.00
ATOM	5240	CG	LEU	X	349	65.029	17.451	41.272	0.00	0.00
ATOM	5241	HG	LEU	X	349	65.060	18.538	41.342	0.00	0.00
ATOM	5242	CD1	LEU	X	349	66.465	16.979	41.499	0.00	0.00
ATOM	5243	HD11	LEU	X	349	67.273	17.383	40.890	0.00	0.00
ATOM	5244	HD12	LEU	X	349	66.708	17.012	42.561	0.00	0.00
ATOM	5245	HD13	LEU	X	349	66.523	15.912	41.283	0.00	0.00
ATOM	5246	CD2	LEU	X	349	64.551	17.078	39.872	0.00	0.00
ATOM	5247	HD21	LEU	X	349	64.490	15.994	39.775	0.00	0.00
ATOM	5248	HD22	LEU	X	349	63.689	17.702	39.636	0.00	0.00
ATOM	5249	HD23	LEU	X	349	65.392	17.365	39.240	0.00	0.00
ATOM	5250	C	LEU	X	349	61.678	16.506	43.406	0.00	0.00
ATOM	5251	O	LEU	X	349	61.658	16.834	44.639	0.00	0.00
ATOM	5252	N	ILE	X	350	60.899	15.579	42.819	0.00	0.00

ATOM	5253	H	ILE	X	350	61.120	15.334	41.865	0.00	0.00
ATOM	5254	CA	ILE	X	350	59.869	14.788	43.559	0.00	0.00
ATOM	5255	HA	ILE	X	350	60.166	14.608	44.592	0.00	0.00
ATOM	5256	CB	ILE	X	350	58.532	15.607	43.681	0.00	0.00
ATOM	5257	HB	ILE	X	350	57.863	14.951	44.238	0.00	0.00
ATOM	5258	CG2	ILE	X	350	58.672	16.797	44.640	0.00	0.00
ATOM	5259	HG21	ILE	X	350	59.085	16.339	45.539	0.00	0.00
ATOM	5260	HG22	ILE	X	350	59.332	17.576	44.257	0.00	0.00
ATOM	5261	HG23	ILE	X	350	57.659	17.152	44.824	0.00	0.00
ATOM	5262	CG1	ILE	X	350	57.832	15.855	42.358	0.00	0.00
ATOM	5263	HG12	ILE	X	350	58.564	16.194	41.624	0.00	0.00
ATOM	5264	HG13	ILE	X	350	57.462	14.916	41.947	0.00	0.00
ATOM	5265	CD1	ILE	X	350	56.731	16.923	42.299	0.00	0.00
ATOM	5266	HD11	ILE	X	350	55.986	16.794	43.084	0.00	0.00
ATOM	5267	HD12	ILE	X	350	57.127	17.937	42.346	0.00	0.00
ATOM	5268	HD13	ILE	X	350	56.322	16.958	41.289	0.00	0.00
ATOM	5269	C	ILE	X	350	59.694	13.421	42.913	0.00	0.00
ATOM	5270	O	ILE	X	350	59.734	13.265	41.682	0.00	0.00
ATOM	5271	N	SER	X	351	59.437	12.384	43.748	0.00	0.00
ATOM	5272	H	SER	X	351	59.496	12.480	44.752	0.00	0.00
ATOM	5273	CA	SER	X	351	59.145	10.988	43.254	0.00	0.00
ATOM	5274	HA	SER	X	351	59.450	10.757	42.233	0.00	0.00
ATOM	5275	CB	SER	X	351	59.855	9.987	44.253	0.00	0.00
ATOM	5276	HB2	SER	X	351	59.767	8.976	43.857	0.00	0.00
ATOM	5277	HB3	SER	X	351	60.916	10.228	44.187	0.00	0.00
ATOM	5278	OG	SER	X	351	59.408	10.030	45.576	0.00	0.00
ATOM	5279	HG	SER	X	351	59.826	10.839	45.879	0.00	0.00
ATOM	5280	C	SER	X	351	57.624	10.633	43.347	0.00	0.00
ATOM	5281	O	SER	X	351	56.892	11.475	43.796	0.00	0.00
ATOM	5282	N	ARG	X	352	57.160	9.436	42.983	0.00	0.00
ATOM	5283	H	ARG	X	352	57.750	8.884	42.377	0.00	0.00
ATOM	5284	CA	ARG	X	352	55.725	9.062	43.095	0.00	0.00
ATOM	5285	HA	ARG	X	352	55.136	9.820	42.579	0.00	0.00
ATOM	5286	CB	ARG	X	352	55.311	7.736	42.364	0.00	0.00
ATOM	5287	HB2	ARG	X	352	55.959	6.962	42.774	0.00	0.00
ATOM	5288	HB3	ARG	X	352	54.265	7.508	42.566	0.00	0.00
ATOM	5289	CG	ARG	X	352	55.493	7.767	40.844	0.00	0.00
ATOM	5290	HG2	ARG	X	352	54.911	8.635	40.534	0.00	0.00
ATOM	5291	HG3	ARG	X	352	56.495	8.014	40.491	0.00	0.00
ATOM	5292	CD	ARG	X	352	54.977	6.412	40.223	0.00	0.00
ATOM	5293	HD2	ARG	X	352	55.374	6.383	39.209	0.00	0.00
ATOM	5294	HD3	ARG	X	352	55.418	5.531	40.688	0.00	0.00
ATOM	5295	NE	ARG	X	352	53.503	6.276	40.244	0.00	0.00
ATOM	5296	HE	ARG	X	352	53.181	5.418	40.668	0.00	0.00
ATOM	5297	CZ	ARG	X	352	52.597	6.960	39.589	0.00	0.00
ATOM	5298	NH1	ARG	X	352	52.929	8.053	38.901	0.00	0.00
ATOM	5299	HH11	ARG	X	352	53.891	8.323	38.753	0.00	0.00
ATOM	5300	HH12	ARG	X	352	52.245	8.518	38.322	0.00	0.00
ATOM	5301	NH2	ARG	X	352	51.327	6.652	39.637	0.00	0.00
ATOM	5302	HH21	ARG	X	352	50.920	5.902	40.177	0.00	0.00
ATOM	5303	HH22	ARG	X	352	50.669	7.234	39.139	0.00	0.00
ATOM	5304	C	ARG	X	352	55.340	9.111	44.566	0.00	0.00
ATOM	5305	O	ARG	X	352	54.228	9.389	44.880	0.00	0.00
ATOM	5306	N	ALA	X	353	56.234	8.770	45.478	0.00	0.00
ATOM	5307	H	ALA	X	353	57.148	8.413	45.237	0.00	0.00
ATOM	5308	CA	ALA	X	353	55.989	8.941	46.934	0.00	0.00
ATOM	5309	HA	ALA	X	353	55.055	8.481	47.258	0.00	0.00
ATOM	5310	CB	ALA	X	353	57.164	8.142	47.622	0.00	0.00
ATOM	5311	HB1	ALA	X	353	57.179	8.353	48.692	0.00	0.00
ATOM	5312	HB2	ALA	X	353	57.011	7.074	47.470	0.00	0.00
ATOM	5313	HB3	ALA	X	353	58.155	8.358	47.221	0.00	0.00
ATOM	5314	C	ALA	X	353	55.774	10.365	47.313	0.00	0.00
ATOM	5315	O	ALA	X	353	55.193	10.568	48.365	0.00	0.00
ATOM	5316	N	GLU	X	354	56.104	11.352	46.553	0.00	0.00
ATOM	5317	H	GLU	X	354	56.479	11.160	45.635	0.00	0.00
ATOM	5318	CA	GLU	X	354	56.033	12.783	46.808	0.00	0.00
ATOM	5319	HA	GLU	X	354	55.703	12.915	47.838	0.00	0.00
ATOM	5320	CB	GLU	X	354	57.373	13.354	46.550	0.00	0.00
ATOM	5321	HB2	GLU	X	354	57.746	12.826	45.672	0.00	0.00
ATOM	5322	HB3	GLU	X	354	57.395	14.441	46.469	0.00	0.00

ATOM	5323	CG	GLU	X	354	58.258	12.952	47.700	0.00	0.00
ATOM	5324	HG2	GLU	X	354	58.081	13.416	48.671	0.00	0.00
ATOM	5325	HG3	GLU	X	354	58.063	11.914	47.970	0.00	0.00
ATOM	5326	CD	GLU	X	354	59.693	13.197	47.363	0.00	0.00
ATOM	5327	OE1	GLU	X	354	60.311	14.233	47.774	0.00	0.00
ATOM	5328	OE2	GLU	X	354	60.290	12.384	46.626	0.00	0.00
ATOM	5329	C	GLU	X	354	54.985	13.503	45.965	0.00	0.00
ATOM	5330	O	GLU	X	354	54.582	14.568	46.419	0.00	0.00
ATOM	5331	N	PHE	X	355	54.596	12.899	44.875	0.00	0.00
ATOM	5332	H	PHE	X	355	54.981	12.040	44.509	0.00	0.00
ATOM	5333	CA	PHE	X	355	53.348	13.225	44.278	0.00	0.00
ATOM	5334	HA	PHE	X	355	53.387	14.307	44.151	0.00	0.00
ATOM	5335	CB	PHE	X	355	53.232	12.613	42.923	0.00	0.00
ATOM	5336	HB2	PHE	X	355	54.060	12.978	42.316	0.00	0.00
ATOM	5337	HB3	PHE	X	355	53.159	11.530	43.021	0.00	0.00
ATOM	5338	CG	PHE	X	355	52.069	12.939	42.117	0.00	0.00
ATOM	5339	CD1	PHE	X	355	51.523	14.249	42.032	0.00	0.00
ATOM	5340	HD1	PHE	X	355	51.895	15.060	42.640	0.00	0.00
ATOM	5341	CE1	PHE	X	355	50.457	14.479	41.083	0.00	0.00
ATOM	5342	HE1	PHE	X	355	49.880	15.390	41.033	0.00	0.00
ATOM	5343	CZ	PHE	X	355	49.956	13.421	40.274	0.00	0.00
ATOM	5344	HZ	PHE	X	355	49.058	13.537	39.686	0.00	0.00
ATOM	5345	CE2	PHE	X	355	50.582	12.114	40.347	0.00	0.00
ATOM	5346	HE2	PHE	X	355	50.238	11.241	39.813	0.00	0.00
ATOM	5347	CD2	PHE	X	355	51.590	11.879	41.308	0.00	0.00
ATOM	5348	HD2	PHE	X	355	52.094	10.926	41.367	0.00	0.00
ATOM	5349	C	PHE	X	355	52.258	12.910	45.191	0.00	0.00
ATOM	5350	O	PHE	X	355	51.456	13.792	45.514	0.00	0.00
ATOM	5351	N	LEU	X	356	52.197	11.641	45.663	0.00	0.00
ATOM	5352	H	LEU	X	356	52.890	10.970	45.363	0.00	0.00
ATOM	5353	CA	LEU	X	356	51.177	11.253	46.652	0.00	0.00
ATOM	5354	HA	LEU	X	356	50.202	11.405	46.191	0.00	0.00
ATOM	5355	CB	LEU	X	356	51.374	9.729	46.893	0.00	0.00
ATOM	5356	HB2	LEU	X	356	51.663	9.178	45.998	0.00	0.00
ATOM	5357	HB3	LEU	X	356	52.282	9.722	47.495	0.00	0.00
ATOM	5358	CG	LEU	X	356	50.329	9.062	47.793	0.00	0.00
ATOM	5359	HG	LEU	X	356	50.241	9.715	48.662	0.00	0.00
ATOM	5360	CD1	LEU	X	356	48.903	8.989	47.165	0.00	0.00
ATOM	5361	HD11	LEU	X	356	48.245	8.418	47.820	0.00	0.00
ATOM	5362	HD12	LEU	X	356	48.502	9.997	47.062	0.00	0.00
ATOM	5363	HD13	LEU	X	356	49.032	8.566	46.168	0.00	0.00
ATOM	5364	CD2	LEU	X	356	50.739	7.630	48.139	0.00	0.00
ATOM	5365	HD21	LEU	X	356	51.719	7.691	48.613	0.00	0.00
ATOM	5366	HD22	LEU	X	356	50.164	7.115	48.908	0.00	0.00
ATOM	5367	HD23	LEU	X	356	50.763	6.995	47.253	0.00	0.00
ATOM	5368	C	LEU	X	356	51.087	12.136	47.860	0.00	0.00
ATOM	5369	O	LEU	X	356	50.052	12.674	48.182	0.00	0.00
ATOM	5370	N	ALA	X	357	52.170	12.387	48.560	0.00	0.00
ATOM	5371	H	ALA	X	357	52.984	11.803	48.434	0.00	0.00
ATOM	5372	CA	ALA	X	357	52.186	13.241	49.650	0.00	0.00
ATOM	5373	HA	ALA	X	357	51.431	12.927	50.371	0.00	0.00
ATOM	5374	CB	ALA	X	357	53.605	13.130	50.308	0.00	0.00
ATOM	5375	HB1	ALA	X	357	53.903	12.108	50.543	0.00	0.00
ATOM	5376	HB2	ALA	X	357	54.250	13.613	49.573	0.00	0.00
ATOM	5377	HB3	ALA	X	357	53.460	13.661	51.248	0.00	0.00
ATOM	5378	C	ALA	X	357	51.849	14.695	49.316	0.00	0.00
ATOM	5379	O	ALA	X	357	51.088	15.306	50.063	0.00	0.00
ATOM	5380	N	GLY	X	358	52.319	15.205	48.144	0.00	0.00
ATOM	5381	H	GLY	X	358	53.128	14.781	47.711	0.00	0.00
ATOM	5382	CA	GLY	X	358	52.072	16.553	47.673	0.00	0.00
ATOM	5383	HA2	GLY	X	358	52.433	17.318	48.237	0.00	0.00
ATOM	5384	HA3	GLY	X	358	52.618	16.639	46.729	0.00	0.00
ATOM	5385	C	GLY	X	358	50.582	16.826	47.261	0.00	0.00
ATOM	5386	O	GLY	X	358	50.034	17.834	47.623	0.00	0.00
ATOM	5387	N	VAL	X	359	49.809	15.915	46.686	0.00	0.00
ATOM	5388	H	VAL	X	359	50.290	15.107	46.319	0.00	0.00
ATOM	5389	CA	VAL	X	359	48.281	15.938	46.739	0.00	0.00
ATOM	5390	HA	VAL	X	359	47.990	16.864	46.244	0.00	0.00
ATOM	5391	CB	VAL	X	359	47.652	14.780	45.864	0.00	0.00
ATOM	5392	HB	VAL	X	359	48.118	13.804	45.996	0.00	0.00

ATOM	5393	CG1	VAL	X	359	46.101	14.734	45.921	0.00	0.00
ATOM	5394	HG11	VAL	X	359	45.683	15.628	45.458	0.00	0.00
ATOM	5395	HG12	VAL	X	359	45.737	13.869	45.365	0.00	0.00
ATOM	5396	HG13	VAL	X	359	45.739	14.682	46.948	0.00	0.00
ATOM	5397	CG2	VAL	X	359	48.026	14.927	44.349	0.00	0.00
ATOM	5398	HG21	VAL	X	359	47.713	13.996	43.877	0.00	0.00
ATOM	5399	HG22	VAL	X	359	47.451	15.736	43.899	0.00	0.00
ATOM	5400	HG23	VAL	X	359	49.095	15.110	44.242	0.00	0.00
ATOM	5401	C	VAL	X	359	47.725	16.060	48.160	0.00	0.00
ATOM	5402	O	VAL	X	359	46.983	17.018	48.412	0.00	0.00
ATOM	5403	N	ARG	X	360	48.238	15.294	49.132	0.00	0.00
ATOM	5404	H	ARG	X	360	48.923	14.558	49.038	0.00	0.00
ATOM	5405	CA	ARG	X	360	47.628	15.117	50.459	0.00	0.00
ATOM	5406	HA	ARG	X	360	46.546	15.092	50.325	0.00	0.00
ATOM	5407	CB	ARG	X	360	48.026	13.868	51.205	0.00	0.00
ATOM	5408	HB2	ARG	X	360	48.326	13.127	50.464	0.00	0.00
ATOM	5409	HB3	ARG	X	360	48.909	13.921	51.842	0.00	0.00
ATOM	5410	CG	ARG	X	360	46.900	13.308	52.116	0.00	0.00
ATOM	5411	HG2	ARG	X	360	46.722	14.044	52.901	0.00	0.00
ATOM	5412	HG3	ARG	X	360	46.017	13.177	51.490	0.00	0.00
ATOM	5413	CD	ARG	X	360	47.288	11.931	52.626	0.00	0.00
ATOM	5414	HD2	ARG	X	360	46.593	11.458	53.320	0.00	0.00
ATOM	5415	HD3	ARG	X	360	47.359	11.407	51.673	0.00	0.00
ATOM	5416	NE	ARG	X	360	48.575	11.990	53.300	0.00	0.00
ATOM	5417	HE	ARG	X	360	48.743	12.915	53.667	0.00	0.00
ATOM	5418	CZ	ARG	X	360	49.665	11.145	53.297	0.00	0.00
ATOM	5419	NH1	ARG	X	360	49.664	10.012	52.645	0.00	0.00
ATOM	5420	HH11	ARG	X	360	48.832	9.641	52.209	0.00	0.00
ATOM	5421	HH12	ARG	X	360	50.519	9.473	52.643	0.00	0.00
ATOM	5422	NH2	ARG	X	360	50.750	11.569	53.838	0.00	0.00
ATOM	5423	HH21	ARG	X	360	50.860	12.453	54.314	0.00	0.00
ATOM	5424	HH22	ARG	X	360	51.488	10.888	53.726	0.00	0.00
ATOM	5425	C	ARG	X	360	47.825	16.389	51.335	0.00	0.00
ATOM	5426	O	ARG	X	360	46.813	16.971	51.760	0.00	0.00
ATOM	5427	N	VAL	X	361	49.073	16.918	51.375	0.00	0.00
ATOM	5428	H	VAL	X	361	49.851	16.413	50.975	0.00	0.00
ATOM	5429	CA	VAL	X	361	49.345	18.234	51.946	0.00	0.00
ATOM	5430	HA	VAL	X	361	48.821	18.327	52.897	0.00	0.00
ATOM	5431	CB	VAL	X	361	50.797	18.318	52.490	0.00	0.00
ATOM	5432	HB	VAL	X	361	50.864	19.207	53.117	0.00	0.00
ATOM	5433	CG1	VAL	X	361	51.135	17.064	53.427	0.00	0.00
ATOM	5434	HG11	VAL	X	361	51.997	17.140	54.090	0.00	0.00
ATOM	5435	HG12	VAL	X	361	50.235	17.040	54.041	0.00	0.00
ATOM	5436	HG13	VAL	X	361	51.390	16.135	52.916	0.00	0.00
ATOM	5437	CG2	VAL	X	361	51.885	18.497	51.387	0.00	0.00
ATOM	5438	HG21	VAL	X	361	51.643	17.830	50.560	0.00	0.00
ATOM	5439	HG22	VAL	X	361	51.907	19.481	50.919	0.00	0.00
ATOM	5440	HG23	VAL	X	361	52.868	18.308	51.818	0.00	0.00
ATOM	5441	C	VAL	X	361	48.915	19.493	51.059	0.00	0.00
ATOM	5442	O	VAL	X	361	48.671	20.547	51.641	0.00	0.00
ATOM	5443	N	GLY	X	362	48.737	19.308	49.742	0.00	0.00
ATOM	5444	H	GLY	X	362	48.877	18.366	49.406	0.00	0.00
ATOM	5445	CA	GLY	X	362	48.437	20.337	48.709	0.00	0.00
ATOM	5446	HA2	GLY	X	362	49.015	21.267	48.767	0.00	0.00
ATOM	5447	HA3	GLY	X	362	48.628	19.883	47.764	0.00	0.00
ATOM	5448	C	GLY	X	362	46.924	20.731	48.740	0.00	0.00
ATOM	5449	O	GLY	X	362	46.621	21.756	49.303	0.00	0.00
ATOM	5450	N	VAL	X	363	46.019	19.853	48.329	0.00	0.00
ATOM	5451	H	VAL	X	363	46.255	18.872	48.292	0.00	0.00
ATOM	5452	CA	VAL	X	363	44.588	20.127	48.481	0.00	0.00
ATOM	5453	HA	VAL	X	363	44.445	21.184	48.255	0.00	0.00
ATOM	5454	CB	VAL	X	363	43.767	19.408	47.416	0.00	0.00
ATOM	5455	HB	VAL	X	363	44.003	18.353	47.558	0.00	0.00
ATOM	5456	CG1	VAL	X	363	42.287	19.657	47.531	0.00	0.00
ATOM	5457	HG11	VAL	X	363	41.870	19.493	48.524	0.00	0.00
ATOM	5458	HG12	VAL	X	363	42.222	20.742	47.448	0.00	0.00
ATOM	5459	HG13	VAL	X	363	41.687	19.326	46.683	0.00	0.00
ATOM	5460	CG2	VAL	X	363	44.156	19.730	45.981	0.00	0.00
ATOM	5461	HG21	VAL	X	363	45.131	19.283	45.788	0.00	0.00
ATOM	5462	HG22	VAL	X	363	43.385	19.454	45.261	0.00	0.00

ATOM	5463	HG23	VAL	X	363	44.349	20.789	45.807	0.00	0.00
ATOM	5464	C	VAL	X	363	44.173	19.828	49.906	0.00	0.00
ATOM	5465	O	VAL	X	363	44.541	18.692	50.299	0.00	0.00
ATOM	5466	N	PRO	X	364	43.425	20.714	50.577	0.00	0.00
ATOM	5467	CD	PRO	X	364	42.957	22.030	50.196	0.00	0.00
ATOM	5468	HD2	PRO	X	364	41.984	21.901	49.721	0.00	0.00
ATOM	5469	HD3	PRO	X	364	43.719	22.568	49.633	0.00	0.00
ATOM	5470	CG	PRO	X	364	42.811	22.781	51.547	0.00	0.00
ATOM	5471	HG2	PRO	X	364	42.142	23.641	51.587	0.00	0.00
ATOM	5472	HG3	PRO	X	364	43.791	23.131	51.870	0.00	0.00
ATOM	5473	CB	PRO	X	364	42.264	21.634	52.460	0.00	0.00
ATOM	5474	HB2	PRO	X	364	41.215	21.402	52.277	0.00	0.00
ATOM	5475	HB3	PRO	X	364	42.535	21.936	53.471	0.00	0.00
ATOM	5476	CA	PRO	X	364	43.053	20.386	51.995	0.00	0.00
ATOM	5477	HA	PRO	X	364	44.010	20.203	52.482	0.00	0.00
ATOM	5478	C	PRO	X	364	42.176	19.154	52.232	0.00	0.00
ATOM	5479	O	PRO	X	364	41.379	18.804	51.352	0.00	0.00
ATOM	5480	N	GLN	X	365	42.353	18.490	53.342	0.00	0.00
ATOM	5481	H	GLN	X	365	43.194	18.687	53.865	0.00	0.00
ATOM	5482	CA	GLN	X	365	41.428	17.488	53.858	0.00	0.00
ATOM	5483	HA	GLN	X	365	41.737	17.313	54.889	0.00	0.00
ATOM	5484	CB	GLN	X	365	39.950	17.958	54.048	0.00	0.00
ATOM	5485	HB2	GLN	X	365	39.511	18.151	53.069	0.00	0.00
ATOM	5486	HB3	GLN	X	365	39.410	17.166	54.568	0.00	0.00
ATOM	5487	CG	GLN	X	365	39.866	19.156	54.996	0.00	0.00
ATOM	5488	HG2	GLN	X	365	40.601	19.158	55.801	0.00	0.00
ATOM	5489	HG3	GLN	X	365	40.106	20.063	54.442	0.00	0.00
ATOM	5490	CD	GLN	X	365	38.496	19.258	55.709	0.00	0.00
ATOM	5491	OE1	GLN	X	365	38.319	18.752	56.811	0.00	0.00
ATOM	5492	NE2	GLN	X	365	37.553	19.973	55.096	0.00	0.00
ATOM	5493	HE21	GLN	X	365	36.749	20.357	55.572	0.00	0.00
ATOM	5494	HE22	GLN	X	365	37.740	20.334	54.171	0.00	0.00
ATOM	5495	C	GLN	X	365	41.485	16.141	53.103	0.00	0.00
ATOM	5496	O	GLN	X	365	41.215	15.120	53.726	0.00	0.00
ATOM	5497	N	VAL	X	366	41.816	16.160	51.801	0.00	0.00
ATOM	5498	H	VAL	X	366	41.718	17.058	51.350	0.00	0.00
ATOM	5499	CA	VAL	X	366	41.944	14.931	50.859	0.00	0.00
ATOM	5500	HA	VAL	X	366	40.941	14.593	50.599	0.00	0.00
ATOM	5501	CB	VAL	X	366	42.740	15.331	49.569	0.00	0.00
ATOM	5502	HB	VAL	X	366	43.776	15.591	49.790	0.00	0.00
ATOM	5503	CG1	VAL	X	366	42.769	14.106	48.534	0.00	0.00
ATOM	5504	HG11	VAL	X	366	41.770	13.722	48.331	0.00	0.00
ATOM	5505	HG12	VAL	X	366	43.233	14.463	47.615	0.00	0.00
ATOM	5506	HG13	VAL	X	366	43.407	13.261	48.792	0.00	0.00
ATOM	5507	CG2	VAL	X	366	41.929	16.472	48.898	0.00	0.00
ATOM	5508	HG21	VAL	X	366	42.221	17.462	49.251	0.00	0.00
ATOM	5509	HG22	VAL	X	366	42.056	16.344	47.823	0.00	0.00
ATOM	5510	HG23	VAL	X	366	40.883	16.550	49.193	0.00	0.00
ATOM	5511	C	VAL	X	366	42.666	13.791	51.506	0.00	0.00
ATOM	5512	O	VAL	X	366	43.735	14.000	52.053	0.00	0.00
ATOM	5513	N	SER	X	367	42.093	12.588	51.530	0.00	0.00
ATOM	5514	H	SER	X	367	41.162	12.521	51.146	0.00	0.00
ATOM	5515	CA	SER	X	367	42.524	11.354	52.230	0.00	0.00
ATOM	5516	HA	SER	X	367	43.010	11.666	53.155	0.00	0.00
ATOM	5517	CB	SER	X	367	41.251	10.408	52.487	0.00	0.00
ATOM	5518	HB2	SER	X	367	41.452	9.541	53.117	0.00	0.00
ATOM	5519	HB3	SER	X	367	40.605	11.052	53.084	0.00	0.00
ATOM	5520	OG	SER	X	367	40.567	10.055	51.270	0.00	0.00
ATOM	5521	HG	SER	X	367	39.866	9.454	51.534	0.00	0.00
ATOM	5522	C	SER	X	367	43.556	10.712	51.456	0.00	0.00
ATOM	5523	O	SER	X	367	43.662	10.776	50.218	0.00	0.00
ATOM	5524	N	ASP	X	368	44.482	9.957	52.126	0.00	0.00
ATOM	5525	H	ASP	X	368	44.432	9.782	53.119	0.00	0.00
ATOM	5526	CA	ASP	X	368	45.349	8.968	51.453	0.00	0.00
ATOM	5527	HA	ASP	X	368	46.053	9.586	50.896	0.00	0.00
ATOM	5528	CB	ASP	X	368	46.267	8.292	52.457	0.00	0.00
ATOM	5529	HB2	ASP	X	368	46.843	8.988	53.067	0.00	0.00
ATOM	5530	HB3	ASP	X	368	45.738	7.597	53.109	0.00	0.00
ATOM	5531	CG	ASP	X	368	47.377	7.509	51.780	0.00	0.00
ATOM	5532	OD1	ASP	X	368	48.109	8.023	50.939	0.00	0.00

ATOM	5533	OD2	ASP	X	368	47.551	6.320	52.162	0.00	0.00
ATOM	5534	C	ASP	X	368	44.630	8.059	50.432	0.00	0.00
ATOM	5535	O	ASP	X	368	45.199	7.665	49.411	0.00	0.00
ATOM	5536	N	LEU	X	369	43.362	7.672	50.656	0.00	0.00
ATOM	5537	H	LEU	X	369	42.890	7.925	51.513	0.00	0.00
ATOM	5538	CA	LEU	X	369	42.594	6.941	49.662	0.00	0.00
ATOM	5539	HA	LEU	X	369	43.259	6.165	49.281	0.00	0.00
ATOM	5540	CB	LEU	X	369	41.399	6.359	50.431	0.00	0.00
ATOM	5541	HB2	LEU	X	369	41.738	5.846	51.332	0.00	0.00
ATOM	5542	HB3	LEU	X	369	40.765	7.147	50.836	0.00	0.00
ATOM	5543	CG	LEU	X	369	40.588	5.272	49.729	0.00	0.00
ATOM	5544	HG	LEU	X	369	40.111	5.574	48.796	0.00	0.00
ATOM	5545	CD1	LEU	X	369	41.469	4.047	49.350	0.00	0.00
ATOM	5546	HD11	LEU	X	369	40.808	3.271	48.963	0.00	0.00
ATOM	5547	HD12	LEU	X	369	42.132	4.362	48.544	0.00	0.00
ATOM	5548	HD13	LEU	X	369	41.936	3.487	50.160	0.00	0.00
ATOM	5549	CD2	LEU	X	369	39.583	4.776	50.713	0.00	0.00
ATOM	5550	HD21	LEU	X	369	39.919	4.597	51.734	0.00	0.00
ATOM	5551	HD22	LEU	X	369	38.838	5.572	50.685	0.00	0.00
ATOM	5552	HD23	LEU	X	369	39.051	3.863	50.445	0.00	0.00
ATOM	5553	C	LEU	X	369	42.111	7.793	48.433	0.00	0.00
ATOM	5554	O	LEU	X	369	42.269	7.285	47.307	0.00	0.00
ATOM	5555	N	ALA	X	370	41.527	8.979	48.696	0.00	0.00
ATOM	5556	H	ALA	X	370	41.388	9.294	49.646	0.00	0.00
ATOM	5557	CA	ALA	X	370	41.301	9.934	47.599	0.00	0.00
ATOM	5558	HA	ALA	X	370	40.644	9.529	46.829	0.00	0.00
ATOM	5559	CB	ALA	X	370	40.666	11.192	48.210	0.00	0.00
ATOM	5560	HB1	ALA	X	370	40.339	11.855	47.410	0.00	0.00
ATOM	5561	HB2	ALA	X	370	39.763	10.870	48.729	0.00	0.00
ATOM	5562	HB3	ALA	X	370	41.273	11.796	48.884	0.00	0.00
ATOM	5563	C	ALA	X	370	42.609	10.228	46.905	0.00	0.00
ATOM	5564	O	ALA	X	370	42.613	10.312	45.708	0.00	0.00
ATOM	5565	N	ALA	X	371	43.797	10.436	47.541	0.00	0.00
ATOM	5566	H	ALA	X	371	43.745	10.437	48.549	0.00	0.00
ATOM	5567	CA	ALA	X	371	44.966	10.942	46.915	0.00	0.00
ATOM	5568	HA	ALA	X	371	44.695	11.901	46.474	0.00	0.00
ATOM	5569	CB	ALA	X	371	46.075	11.271	47.930	0.00	0.00
ATOM	5570	HB1	ALA	X	371	46.405	10.330	48.372	0.00	0.00
ATOM	5571	HB2	ALA	X	371	46.962	11.662	47.431	0.00	0.00
ATOM	5572	HB3	ALA	X	371	45.727	11.985	48.676	0.00	0.00
ATOM	5573	C	ALA	X	371	45.369	9.921	45.913	0.00	0.00
ATOM	5574	O	ALA	X	371	45.644	10.254	44.792	0.00	0.00
ATOM	5575	N	GLU	X	372	45.490	8.608	46.282	0.00	0.00
ATOM	5576	H	GLU	X	372	45.277	8.421	47.252	0.00	0.00
ATOM	5577	CA	GLU	X	372	45.888	7.547	45.309	0.00	0.00
ATOM	5578	HA	GLU	X	372	46.810	7.865	44.822	0.00	0.00
ATOM	5579	CB	GLU	X	372	46.201	6.202	45.956	0.00	0.00
ATOM	5580	HB2	GLU	X	372	46.958	6.403	46.714	0.00	0.00
ATOM	5581	HB3	GLU	X	372	45.326	5.903	46.533	0.00	0.00
ATOM	5582	CG	GLU	X	372	46.755	5.005	45.098	0.00	0.00
ATOM	5583	HG2	GLU	X	372	45.921	4.629	44.506	0.00	0.00
ATOM	5584	HG3	GLU	X	372	47.496	5.335	44.370	0.00	0.00
ATOM	5585	CD	GLU	X	372	47.182	3.697	45.806	0.00	0.00
ATOM	5586	OE1	GLU	X	372	46.338	2.943	46.309	0.00	0.00
ATOM	5587	OE2	GLU	X	372	48.413	3.422	45.871	0.00	0.00
ATOM	5588	C	GLU	X	372	44.840	7.403	44.231	0.00	0.00
ATOM	5589	O	GLU	X	372	45.202	6.915	43.099	0.00	0.00
ATOM	5590	N	ALA	X	373	43.612	7.915	44.356	0.00	0.00
ATOM	5591	H	ALA	X	373	43.328	8.243	45.268	0.00	0.00
ATOM	5592	CA	ALA	X	373	42.642	7.973	43.250	0.00	0.00
ATOM	5593	HA	ALA	X	373	42.792	7.157	42.543	0.00	0.00
ATOM	5594	CB	ALA	X	373	41.244	7.949	43.809	0.00	0.00
ATOM	5595	HB1	ALA	X	373	40.655	7.220	43.252	0.00	0.00
ATOM	5596	HB2	ALA	X	373	41.273	7.531	44.815	0.00	0.00
ATOM	5597	HB3	ALA	X	373	40.774	8.918	43.638	0.00	0.00
ATOM	5598	C	ALA	X	373	42.882	9.193	42.327	0.00	0.00
ATOM	5599	O	ALA	X	373	42.712	9.064	41.088	0.00	0.00
ATOM	5600	N	VAL	X	374	43.159	10.306	42.940	0.00	0.00
ATOM	5601	H	VAL	X	374	43.152	10.302	43.950	0.00	0.00
ATOM	5602	CA	VAL	X	374	43.622	11.628	42.283	0.00	0.00

ATOM	5603	HA	VAL	X	374	42.891	11.849	41.506	0.00	0.00
ATOM	5604	CB	VAL	X	374	43.824	12.739	43.265	0.00	0.00
ATOM	5605	HB	VAL	X	374	44.380	12.492	44.169	0.00	0.00
ATOM	5606	CG1	VAL	X	374	44.559	13.887	42.629	0.00	0.00
ATOM	5607	HG11	VAL	X	374	44.054	14.344	41.777	0.00	0.00
ATOM	5608	HG12	VAL	X	374	44.899	14.648	43.331	0.00	0.00
ATOM	5609	HG13	VAL	X	374	45.492	13.458	42.263	0.00	0.00
ATOM	5610	CG2	VAL	X	374	42.440	13.191	43.764	0.00	0.00
ATOM	5611	HG21	VAL	X	374	42.459	14.010	44.483	0.00	0.00
ATOM	5612	HG22	VAL	X	374	41.885	13.621	42.929	0.00	0.00
ATOM	5613	HG23	VAL	X	374	41.869	12.399	44.248	0.00	0.00
ATOM	5614	C	VAL	X	374	44.917	11.231	41.517	0.00	0.00
ATOM	5615	O	VAL	X	374	45.174	11.728	40.396	0.00	0.00
ATOM	5616	N	VAL	X	375	45.830	10.390	42.047	0.00	0.00
ATOM	5617	H	VAL	X	375	45.697	10.163	43.022	0.00	0.00
ATOM	5618	CA	VAL	X	375	47.066	10.043	41.454	0.00	0.00
ATOM	5619	HA	VAL	X	375	47.462	10.969	41.037	0.00	0.00
ATOM	5620	CB	VAL	X	375	48.054	9.312	42.419	0.00	0.00
ATOM	5621	HB	VAL	X	375	47.532	8.691	43.147	0.00	0.00
ATOM	5622	CG1	VAL	X	375	49.212	8.517	41.735	0.00	0.00
ATOM	5623	HG11	VAL	X	375	49.794	8.027	42.516	0.00	0.00
ATOM	5624	HG12	VAL	X	375	48.947	7.728	41.031	0.00	0.00
ATOM	5625	HG13	VAL	X	375	49.831	9.190	41.142	0.00	0.00
ATOM	5626	CG2	VAL	X	375	48.698	10.364	43.340	0.00	0.00
ATOM	5627	HG21	VAL	X	375	49.357	10.040	44.146	0.00	0.00
ATOM	5628	HG22	VAL	X	375	49.294	11.012	42.698	0.00	0.00
ATOM	5629	HG23	VAL	X	375	47.985	11.054	43.791	0.00	0.00
ATOM	5630	C	VAL	X	375	46.813	9.102	40.237	0.00	0.00
ATOM	5631	O	VAL	X	375	47.393	9.283	39.183	0.00	0.00
ATOM	5632	N	LEU	X	376	45.937	8.077	40.442	0.00	0.00
ATOM	5633	H	LEU	X	376	45.493	7.831	41.315	0.00	0.00
ATOM	5634	CA	LEU	X	376	45.411	7.233	39.328	0.00	0.00
ATOM	5635	HA	LEU	X	376	46.278	6.747	38.880	0.00	0.00
ATOM	5636	CB	LEU	X	376	44.381	6.318	39.956	0.00	0.00
ATOM	5637	HB2	LEU	X	376	44.738	5.835	40.866	0.00	0.00
ATOM	5638	HB3	LEU	X	376	43.500	6.869	40.284	0.00	0.00
ATOM	5639	CG	LEU	X	376	43.931	5.215	38.994	0.00	0.00
ATOM	5640	HG	LEU	X	376	43.512	5.686	38.105	0.00	0.00
ATOM	5641	CD1	LEU	X	376	45.044	4.368	38.586	0.00	0.00
ATOM	5642	HD11	LEU	X	376	45.828	4.908	38.054	0.00	0.00
ATOM	5643	HD12	LEU	X	376	45.435	3.860	39.467	0.00	0.00
ATOM	5644	HD13	LEU	X	376	44.766	3.582	37.883	0.00	0.00
ATOM	5645	CD2	LEU	X	376	42.804	4.259	39.494	0.00	0.00
ATOM	5646	HD21	LEU	X	376	41.947	4.708	39.995	0.00	0.00
ATOM	5647	HD22	LEU	X	376	42.407	3.644	38.686	0.00	0.00
ATOM	5648	HD23	LEU	X	376	43.225	3.607	40.260	0.00	0.00
ATOM	5649	C	LEU	X	376	44.923	7.904	38.100	0.00	0.00
ATOM	5650	O	LEU	X	376	45.256	7.528	36.953	0.00	0.00
ATOM	5651	N	HIE	X	377	44.280	9.018	38.329	0.00	0.00
ATOM	5652	H	HIE	X	377	44.004	9.041	39.300	0.00	0.00
ATOM	5653	CA	HIE	X	377	43.728	9.910	37.327	0.00	0.00
ATOM	5654	HA	HIE	X	377	43.233	9.245	36.618	0.00	0.00
ATOM	5655	CB	HIE	X	377	42.649	10.803	37.853	0.00	0.00
ATOM	5656	HB2	HIE	X	377	42.037	10.210	38.533	0.00	0.00
ATOM	5657	HB3	HIE	X	377	42.899	11.602	38.551	0.00	0.00
ATOM	5658	CG	HIE	X	377	41.661	11.287	36.841	0.00	0.00
ATOM	5659	ND1	HIE	X	377	40.690	10.482	36.324	0.00	0.00
ATOM	5660	CE1	HIE	X	377	39.938	11.285	35.523	0.00	0.00
ATOM	5661	HE1	HIE	X	377	39.130	10.880	34.932	0.00	0.00
ATOM	5662	NE2	HIE	X	377	40.439	12.555	35.494	0.00	0.00
ATOM	5663	HE2	HIE	X	377	40.064	13.236	34.850	0.00	0.00
ATOM	5664	CD2	HIE	X	377	41.542	12.550	36.347	0.00	0.00
ATOM	5665	HD2	HIE	X	377	42.261	13.331	36.544	0.00	0.00
ATOM	5666	C	HIE	X	377	44.758	10.649	36.490	0.00	0.00
ATOM	5667	O	HIE	X	377	44.710	10.680	35.227	0.00	0.00
ATOM	5668	N	TYR	X	378	45.681	11.362	37.175	0.00	0.00
ATOM	5669	H	TYR	X	378	45.620	11.396	38.182	0.00	0.00
ATOM	5670	CA	TYR	X	378	46.607	12.308	36.595	0.00	0.00
ATOM	5671	HA	TYR	X	378	46.128	12.693	35.694	0.00	0.00
ATOM	5672	CB	TYR	X	378	46.831	13.411	37.593	0.00	0.00

ATOM	5673	HB2	TYR	X	378	47.162	12.989	38.542	0.00	0.00
ATOM	5674	HB3	TYR	X	378	47.670	13.975	37.187	0.00	0.00
ATOM	5675	CG	TYR	X	378	45.624	14.386	37.674	0.00	0.00
ATOM	5676	CD1	TYR	X	378	45.714	15.729	37.164	0.00	0.00
ATOM	5677	HD1	TYR	X	378	46.665	16.051	36.764	0.00	0.00
ATOM	5678	CE1	TYR	X	378	44.711	16.705	37.321	0.00	0.00
ATOM	5679	HE1	TYR	X	378	44.833	17.724	36.984	0.00	0.00
ATOM	5680	CZ	TYR	X	378	43.508	16.314	37.908	0.00	0.00
ATOM	5681	OH	TYR	X	378	42.550	17.207	38.100	0.00	0.00
ATOM	5682	HH	TYR	X	378	42.643	18.059	37.668	0.00	0.00
ATOM	5683	CE2	TYR	X	378	43.345	14.976	38.398	0.00	0.00
ATOM	5684	HE2	TYR	X	378	42.397	14.647	38.796	0.00	0.00
ATOM	5685	CD2	TYR	X	378	44.326	14.072	38.272	0.00	0.00
ATOM	5686	HD2	TYR	X	378	44.240	13.195	38.898	0.00	0.00
ATOM	5687	C	TYR	X	378	47.906	11.753	36.194	0.00	0.00
ATOM	5688	O	TYR	X	378	48.679	12.273	35.414	0.00	0.00
ATOM	5689	N	THR	X	379	48.239	10.507	36.685	0.00	0.00
ATOM	5690	H	THR	X	379	47.555	9.920	37.140	0.00	0.00
ATOM	5691	CA	THR	X	379	49.441	9.751	36.255	0.00	0.00
ATOM	5692	HA	THR	X	379	50.360	10.232	36.591	0.00	0.00
ATOM	5693	CB	THR	X	379	49.375	8.389	36.801	0.00	0.00
ATOM	5694	HB	THR	X	379	48.351	8.023	36.736	0.00	0.00
ATOM	5695	CG2	THR	X	379	50.312	7.305	36.134	0.00	0.00
ATOM	5696	HG21	THR	X	379	51.329	7.567	36.425	0.00	0.00
ATOM	5697	HG22	THR	X	379	50.070	6.301	36.486	0.00	0.00
ATOM	5698	HG23	THR	X	379	50.173	7.311	35.053	0.00	0.00
ATOM	5699	OG1	THR	X	379	49.659	8.551	38.214	0.00	0.00
ATOM	5700	HG1	THR	X	379	48.834	8.784	38.646	0.00	0.00
ATOM	5701	C	THR	X	379	49.557	9.668	34.729	0.00	0.00
ATOM	5702	O	THR	X	379	48.564	9.509	33.921	0.00	0.00
ATOM	5703	N	ASP	X	380	50.889	9.707	34.411	0.00	0.00
ATOM	5704	H	ASP	X	380	51.524	9.939	35.161	0.00	0.00
ATOM	5705	CA	ASP	X	380	51.386	9.627	32.993	0.00	0.00
ATOM	5706	HA	ASP	X	380	50.600	10.060	32.373	0.00	0.00
ATOM	5707	CB	ASP	X	380	52.708	10.358	32.872	0.00	0.00
ATOM	5708	HB2	ASP	X	380	52.784	11.334	33.351	0.00	0.00
ATOM	5709	HB3	ASP	X	380	53.483	9.787	33.384	0.00	0.00
ATOM	5710	CG	ASP	X	380	53.065	10.398	31.388	0.00	0.00
ATOM	5711	OD1	ASP	X	380	52.304	11.189	30.741	0.00	0.00
ATOM	5712	OD2	ASP	X	380	53.785	9.571	30.801	0.00	0.00
ATOM	5713	C	ASP	X	380	51.534	8.114	32.597	0.00	0.00
ATOM	5714	O	ASP	X	380	52.200	7.279	33.314	0.00	0.00
ATOM	5715	N	TRP	X	381	50.997	7.751	31.398	0.00	0.00
ATOM	5716	H	TRP	X	381	50.596	8.460	30.801	0.00	0.00
ATOM	5717	CA	TRP	X	381	51.021	6.414	30.810	0.00	0.00
ATOM	5718	HA	TRP	X	381	50.621	5.698	31.528	0.00	0.00
ATOM	5719	CB	TRP	X	381	50.074	6.507	29.630	0.00	0.00
ATOM	5720	HB2	TRP	X	381	49.149	6.972	29.972	0.00	0.00
ATOM	5721	HB3	TRP	X	381	50.499	7.269	28.976	0.00	0.00
ATOM	5722	CG	TRP	X	381	49.819	5.272	28.868	0.00	0.00
ATOM	5723	CD1	TRP	X	381	50.489	4.838	27.790	0.00	0.00
ATOM	5724	HD1	TRP	X	381	51.377	5.285	27.367	0.00	0.00
ATOM	5725	NE1	TRP	X	381	49.976	3.611	27.347	0.00	0.00
ATOM	5726	HE1	TRP	X	381	50.304	3.115	26.531	0.00	0.00
ATOM	5727	CE2	TRP	X	381	48.809	3.302	28.004	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	47.886	2.254	27.850	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	48.010	1.549	27.042	0.00	0.00
ATOM	5730	CH2	TRP	X	381	46.753	2.266	28.726	0.00	0.00
ATOM	5731	HH2	TRP	X	381	46.012	1.480	28.736	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	46.646	3.280	29.687	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	45.779	3.324	30.329	0.00	0.00
ATOM	5734	CE3	TRP	X	381	47.602	4.322	29.861	0.00	0.00
ATOM	5735	HE3	TRP	X	381	47.533	4.932	30.750	0.00	0.00
ATOM	5736	CD2	TRP	X	381	48.689	4.324	29.035	0.00	0.00
ATOM	5737	C	TRP	X	381	52.416	5.789	30.436	0.00	0.00
ATOM	5738	O	TRP	X	381	52.579	4.557	30.519	0.00	0.00
ATOM	5739	N	LEU	X	382	53.464	6.540	30.032	0.00	0.00
ATOM	5740	H	LEU	X	382	53.358	7.544	30.026	0.00	0.00
ATOM	5741	CA	LEU	X	382	54.808	5.979	29.623	0.00	0.00
ATOM	5742	HA	LEU	X	382	54.734	4.894	29.699	0.00	0.00

ATOM	5743	CB	LEU	X	382	55.073	6.443	28.181	0.00	0.00
ATOM	5744	HB2	LEU	X	382	54.265	6.992	27.698	0.00	0.00
ATOM	5745	HB3	LEU	X	382	55.921	7.120	28.075	0.00	0.00
ATOM	5746	CG	LEU	X	382	55.588	5.289	27.299	0.00	0.00
ATOM	5747	HG	LEU	X	382	56.312	4.712	27.874	0.00	0.00
ATOM	5748	CD1	LEU	X	382	54.421	4.320	27.043	0.00	0.00
ATOM	5749	HD11	LEU	X	382	54.179	3.926	28.030	0.00	0.00
ATOM	5750	HD12	LEU	X	382	53.583	4.835	26.572	0.00	0.00
ATOM	5751	HD13	LEU	X	382	54.774	3.492	26.428	0.00	0.00
ATOM	5752	CD2	LEU	X	382	56.042	5.625	25.914	0.00	0.00
ATOM	5753	HD21	LEU	X	382	56.948	6.231	25.914	0.00	0.00
ATOM	5754	HD22	LEU	X	382	56.309	4.735	25.345	0.00	0.00
ATOM	5755	HD23	LEU	X	382	55.386	6.276	25.335	0.00	0.00
ATOM	5756	C	LEU	X	382	55.951	6.267	30.590	0.00	0.00
ATOM	5757	O	LEU	X	382	56.950	5.569	30.802	0.00	0.00
ATOM	5758	N	HIE	X	383	55.697	7.297	31.467	0.00	0.00
ATOM	5759	H	HIE	X	383	54.912	7.906	31.285	0.00	0.00
ATOM	5760	CA	HIE	X	383	56.740	7.811	32.393	0.00	0.00
ATOM	5761	HA	HIE	X	383	57.443	7.013	32.630	0.00	0.00
ATOM	5762	CB	HIE	X	383	57.388	9.005	31.734	0.00	0.00
ATOM	5763	HB2	HIE	X	383	56.610	9.685	31.389	0.00	0.00
ATOM	5764	HB3	HIE	X	383	57.914	9.592	32.487	0.00	0.00
ATOM	5765	CG	HIE	X	383	58.296	8.610	30.552	0.00	0.00
ATOM	5766	ND1	HIE	X	383	59.512	8.006	30.626	0.00	0.00
ATOM	5767	CE1	HIE	X	383	59.961	7.830	29.416	0.00	0.00
ATOM	5768	HE1	HIE	X	383	60.925	7.395	29.198	0.00	0.00
ATOM	5769	NE2	HIE	X	383	59.048	8.257	28.506	0.00	0.00
ATOM	5770	HE2	HIE	X	383	59.227	8.386	27.520	0.00	0.00
ATOM	5771	CD2	HIE	X	383	57.974	8.706	29.210	0.00	0.00
ATOM	5772	HD2	HIE	X	383	57.018	9.020	28.817	0.00	0.00
ATOM	5773	C	HIE	X	383	56.115	8.129	33.768	0.00	0.00
ATOM	5774	O	HIE	X	383	56.061	9.268	34.267	0.00	0.00
ATOM	5775	N	PRO	X	384	55.697	7.061	34.512	0.00	0.00
ATOM	5776	CD	PRO	X	384	55.481	5.615	34.163	0.00	0.00
ATOM	5777	HD2	PRO	X	384	56.352	5.134	33.719	0.00	0.00
ATOM	5778	HD3	PRO	X	384	54.648	5.544	33.464	0.00	0.00
ATOM	5779	CG	PRO	X	384	55.057	4.885	35.491	0.00	0.00
ATOM	5780	HG2	PRO	X	384	56.011	4.683	35.979	0.00	0.00
ATOM	5781	HG3	PRO	X	384	54.369	4.063	35.296	0.00	0.00
ATOM	5782	CB	PRO	X	384	54.465	6.011	36.344	0.00	0.00
ATOM	5783	HB2	PRO	X	384	54.887	5.862	37.338	0.00	0.00
ATOM	5784	HB3	PRO	X	384	53.379	6.075	36.407	0.00	0.00
ATOM	5785	CA	PRO	X	384	55.078	7.322	35.771	0.00	0.00
ATOM	5786	HA	PRO	X	384	54.244	7.986	35.543	0.00	0.00
ATOM	5787	C	PRO	X	384	55.902	8.039	36.877	0.00	0.00
ATOM	5788	O	PRO	X	384	55.268	8.644	37.741	0.00	0.00
ATOM	5789	N	GLU	X	385	57.236	7.989	36.870	0.00	0.00
ATOM	5790	H	GLU	X	385	57.707	7.424	36.178	0.00	0.00
ATOM	5791	CA	GLU	X	385	58.091	8.483	37.953	0.00	0.00
ATOM	5792	HA	GLU	X	385	57.532	8.642	38.875	0.00	0.00
ATOM	5793	CB	GLU	X	385	59.115	7.417	38.312	0.00	0.00
ATOM	5794	HB2	GLU	X	385	59.656	7.162	37.400	0.00	0.00
ATOM	5795	HB3	GLU	X	385	59.779	7.832	39.071	0.00	0.00
ATOM	5796	CG	GLU	X	385	58.569	6.136	38.867	0.00	0.00
ATOM	5797	HG2	GLU	X	385	58.203	6.397	39.861	0.00	0.00
ATOM	5798	HG3	GLU	X	385	57.781	5.677	38.270	0.00	0.00
ATOM	5799	CD	GLU	X	385	59.724	5.145	38.955	0.00	0.00
ATOM	5800	OE1	GLU	X	385	60.101	4.731	40.041	0.00	0.00
ATOM	5801	OE2	GLU	X	385	60.234	4.675	37.909	0.00	0.00
ATOM	5802	C	GLU	X	385	58.852	9.756	37.626	0.00	0.00
ATOM	5803	O	GLU	X	385	59.589	10.306	38.421	0.00	0.00
ATOM	5804	N	ASP	X	386	58.661	10.316	36.425	0.00	0.00
ATOM	5805	H	ASP	X	386	57.797	10.027	35.988	0.00	0.00
ATOM	5806	CA	ASP	X	386	59.388	11.473	35.954	0.00	0.00
ATOM	5807	HA	ASP	X	386	60.468	11.333	35.991	0.00	0.00
ATOM	5808	CB	ASP	X	386	59.086	11.790	34.492	0.00	0.00
ATOM	5809	HB2	ASP	X	386	59.436	10.965	33.871	0.00	0.00
ATOM	5810	HB3	ASP	X	386	57.999	11.861	34.455	0.00	0.00
ATOM	5811	CG	ASP	X	386	59.752	13.114	33.918	0.00	0.00
ATOM	5812	OD1	ASP	X	386	60.976	13.075	33.568	0.00	0.00

ATOM	5813	OD2	ASP	X	386	59.117	14.212	33.932	0.00	0.00
ATOM	5814	C	ASP	X	386	59.026	12.776	36.802	0.00	0.00
ATOM	5815	O	ASP	X	386	57.887	13.183	36.770	0.00	0.00
ATOM	5816	N	PRO	X	387	60.052	13.553	37.300	0.00	0.00
ATOM	5817	CD	PRO	X	387	61.509	13.379	36.987	0.00	0.00
ATOM	5818	HD2	PRO	X	387	61.684	13.417	35.912	0.00	0.00
ATOM	5819	HD3	PRO	X	387	61.879	12.458	37.439	0.00	0.00
ATOM	5820	CG	PRO	X	387	62.247	14.499	37.717	0.00	0.00
ATOM	5821	HG2	PRO	X	387	62.336	15.336	37.025	0.00	0.00
ATOM	5822	HG3	PRO	X	387	63.218	14.209	38.117	0.00	0.00
ATOM	5823	CB	PRO	X	387	61.246	14.882	38.763	0.00	0.00
ATOM	5824	HB2	PRO	X	387	61.410	15.947	38.923	0.00	0.00
ATOM	5825	HB3	PRO	X	387	61.420	14.346	39.696	0.00	0.00
ATOM	5826	CA	PRO	X	387	59.901	14.560	38.299	0.00	0.00
ATOM	5827	HA	PRO	X	387	59.372	14.213	39.187	0.00	0.00
ATOM	5828	C	PRO	X	387	59.154	15.882	37.816	0.00	0.00
ATOM	5829	O	PRO	X	387	58.661	16.680	38.651	0.00	0.00
ATOM	5830	N	ALA	X	388	59.029	16.047	36.524	0.00	0.00
ATOM	5831	H	ALA	X	388	59.321	15.314	35.893	0.00	0.00
ATOM	5832	CA	ALA	X	388	58.395	17.212	35.936	0.00	0.00
ATOM	5833	HA	ALA	X	388	58.580	18.086	36.559	0.00	0.00
ATOM	5834	CB	ALA	X	388	58.983	17.603	34.572	0.00	0.00
ATOM	5835	HB1	ALA	X	388	58.918	16.724	33.931	0.00	0.00
ATOM	5836	HB2	ALA	X	388	58.470	18.422	34.068	0.00	0.00
ATOM	5837	HB3	ALA	X	388	60.056	17.795	34.584	0.00	0.00
ATOM	5838	C	ALA	X	388	56.939	16.915	35.616	0.00	0.00
ATOM	5839	O	ALA	X	388	56.114	17.707	36.011	0.00	0.00
ATOM	5840	N	ARG	X	389	56.615	15.747	35.091	0.00	0.00
ATOM	5841	H	ARG	X	389	57.401	15.168	34.832	0.00	0.00
ATOM	5842	CA	ARG	X	389	55.240	15.274	34.857	0.00	0.00
ATOM	5843	HA	ARG	X	389	54.669	16.030	34.318	0.00	0.00
ATOM	5844	CB	ARG	X	389	55.252	13.941	34.095	0.00	0.00
ATOM	5845	HB2	ARG	X	389	55.803	13.177	34.642	0.00	0.00
ATOM	5846	HB3	ARG	X	389	54.217	13.617	33.993	0.00	0.00
ATOM	5847	CG	ARG	X	389	55.858	14.095	32.684	0.00	0.00
ATOM	5848	HG2	ARG	X	389	55.253	14.819	32.138	0.00	0.00
ATOM	5849	HG3	ARG	X	389	56.826	14.595	32.715	0.00	0.00
ATOM	5850	CD	ARG	X	389	55.868	12.756	31.992	0.00	0.00
ATOM	5851	HD2	ARG	X	389	56.103	12.008	32.749	0.00	0.00
ATOM	5852	HD3	ARG	X	389	54.825	12.593	31.721	0.00	0.00
ATOM	5853	NE	ARG	X	389	56.756	12.773	30.849	0.00	0.00
ATOM	5854	HE	ARG	X	389	57.693	13.107	31.022	0.00	0.00
ATOM	5855	CZ	ARG	X	389	56.484	12.350	29.602	0.00	0.00
ATOM	5856	NH1	ARG	X	389	55.413	11.639	29.308	0.00	0.00
ATOM	5857	HH11	ARG	X	389	54.836	11.327	30.075	0.00	0.00
ATOM	5858	HH12	ARG	X	389	55.150	11.317	28.387	0.00	0.00
ATOM	5859	NH2	ARG	X	389	57.346	12.629	28.704	0.00	0.00
ATOM	5860	HH21	ARG	X	389	58.190	13.177	28.790	0.00	0.00
ATOM	5861	HH22	ARG	X	389	57.204	12.204	27.799	0.00	0.00
ATOM	5862	C	ARG	X	389	54.433	15.151	36.160	0.00	0.00
ATOM	5863	O	ARG	X	389	53.258	15.468	36.269	0.00	0.00
ATOM	5864	N	LEU	X	390	55.078	14.707	37.258	0.00	0.00
ATOM	5865	H	LEU	X	390	56.051	14.453	37.163	0.00	0.00
ATOM	5866	CA	LEU	X	390	54.639	14.842	38.654	0.00	0.00
ATOM	5867	HA	LEU	X	390	53.651	14.386	38.721	0.00	0.00
ATOM	5868	CB	LEU	X	390	55.685	14.271	39.611	0.00	0.00
ATOM	5869	HB2	LEU	X	390	56.665	14.733	39.487	0.00	0.00
ATOM	5870	HB3	LEU	X	390	55.456	14.445	40.663	0.00	0.00
ATOM	5871	CG	LEU	X	390	55.807	12.726	39.359	0.00	0.00
ATOM	5872	HG	LEU	X	390	56.219	12.611	38.356	0.00	0.00
ATOM	5873	CD1	LEU	X	390	56.846	12.210	40.398	0.00	0.00
ATOM	5874	HD11	LEU	X	390	57.701	12.872	40.262	0.00	0.00
ATOM	5875	HD12	LEU	X	390	56.542	12.148	41.443	0.00	0.00
ATOM	5876	HD13	LEU	X	390	57.088	11.174	40.160	0.00	0.00
ATOM	5877	CD2	LEU	X	390	54.556	11.819	39.445	0.00	0.00
ATOM	5878	HD21	LEU	X	390	54.705	10.869	38.931	0.00	0.00
ATOM	5879	HD22	LEU	X	390	54.287	11.612	40.481	0.00	0.00
ATOM	5880	HD23	LEU	X	390	53.735	12.243	38.867	0.00	0.00
ATOM	5881	C	LEU	X	390	54.337	16.336	39.052	0.00	0.00
ATOM	5882	O	LEU	X	390	53.189	16.633	39.455	0.00	0.00

ATOM	5883	N	ARG	X	391	55.276	17.266	38.890	0.00	0.00
ATOM	5884	H	ARG	X	391	56.143	16.975	38.461	0.00	0.00
ATOM	5885	CA	ARG	X	391	55.203	18.740	39.151	0.00	0.00
ATOM	5886	HA	ARG	X	391	54.970	18.827	40.213	0.00	0.00
ATOM	5887	CB	ARG	X	391	56.536	19.398	38.971	0.00	0.00
ATOM	5888	HB2	ARG	X	391	57.320	18.736	39.339	0.00	0.00
ATOM	5889	HB3	ARG	X	391	56.723	19.531	37.906	0.00	0.00
ATOM	5890	CG	ARG	X	391	56.720	20.704	39.798	0.00	0.00
ATOM	5891	HG2	ARG	X	391	55.855	21.357	39.678	0.00	0.00
ATOM	5892	HG3	ARG	X	391	56.785	20.562	40.876	0.00	0.00
ATOM	5893	CD	ARG	X	391	57.929	21.442	39.410	0.00	0.00
ATOM	5894	HD2	ARG	X	391	57.637	21.955	38.494	0.00	0.00
ATOM	5895	HD3	ARG	X	391	58.130	22.280	40.077	0.00	0.00
ATOM	5896	NE	ARG	X	391	59.158	20.597	39.453	0.00	0.00
ATOM	5897	HE	ARG	X	391	59.405	20.166	40.333	0.00	0.00
ATOM	5898	CZ	ARG	X	391	60.084	20.541	38.494	0.00	0.00
ATOM	5899	NH1	ARG	X	391	59.909	20.923	37.268	0.00	0.00
ATOM	5900	HH11	ARG	X	391	59.051	21.364	36.969	0.00	0.00
ATOM	5901	HH12	ARG	X	391	60.640	20.627	36.636	0.00	0.00
ATOM	5902	NH2	ARG	X	391	61.249	19.971	38.820	0.00	0.00
ATOM	5903	HH21	ARG	X	391	61.376	19.639	39.765	0.00	0.00
ATOM	5904	HH22	ARG	X	391	62.065	20.034	38.227	0.00	0.00
ATOM	5905	C	ARG	X	391	54.037	19.434	38.353	0.00	0.00
ATOM	5906	O	ARG	X	391	53.238	20.171	38.976	0.00	0.00
ATOM	5907	N	GLU	X	392	53.983	19.129	37.106	0.00	0.00
ATOM	5908	H	GLU	X	392	54.737	18.561	36.747	0.00	0.00
ATOM	5909	CA	GLU	X	392	52.975	19.494	36.138	0.00	0.00
ATOM	5910	HA	GLU	X	392	52.942	20.568	35.955	0.00	0.00
ATOM	5911	CB	GLU	X	392	53.287	18.825	34.852	0.00	0.00
ATOM	5912	HB2	GLU	X	392	54.360	18.837	34.660	0.00	0.00
ATOM	5913	HB3	GLU	X	392	53.034	17.770	34.740	0.00	0.00
ATOM	5914	CG	GLU	X	392	52.700	19.660	33.727	0.00	0.00
ATOM	5915	HG2	GLU	X	392	51.619	19.756	33.824	0.00	0.00
ATOM	5916	HG3	GLU	X	392	53.061	20.688	33.683	0.00	0.00
ATOM	5917	CD	GLU	X	392	52.958	18.982	32.421	0.00	0.00
ATOM	5918	OE1	GLU	X	392	51.955	18.497	31.793	0.00	0.00
ATOM	5919	OE2	GLU	X	392	54.056	19.083	31.844	0.00	0.00
ATOM	5920	C	GLU	X	392	51.621	19.014	36.612	0.00	0.00
ATOM	5921	O	GLU	X	392	50.735	19.856	36.806	0.00	0.00
ATOM	5922	N	ALA	X	393	51.401	17.723	36.949	0.00	0.00
ATOM	5923	H	ALA	X	393	52.211	17.129	37.054	0.00	0.00
ATOM	5924	CA	ALA	X	393	50.102	17.221	37.526	0.00	0.00
ATOM	5925	HA	ALA	X	393	49.337	17.535	36.816	0.00	0.00
ATOM	5926	CB	ALA	X	393	50.200	15.774	37.588	0.00	0.00
ATOM	5927	HB1	ALA	X	393	50.669	15.466	36.653	0.00	0.00
ATOM	5928	HB2	ALA	X	393	50.903	15.485	38.370	0.00	0.00
ATOM	5929	HB3	ALA	X	393	49.218	15.312	37.689	0.00	0.00
ATOM	5930	C	ALA	X	393	49.672	17.875	38.829	0.00	0.00
ATOM	5931	O	ALA	X	393	48.486	18.198	38.985	0.00	0.00
ATOM	5932	N	LEU	X	394	50.689	18.094	39.671	0.00	0.00
ATOM	5933	H	LEU	X	394	51.624	17.781	39.452	0.00	0.00
ATOM	5934	CA	LEU	X	394	50.406	18.705	40.952	0.00	0.00
ATOM	5935	HA	LEU	X	394	49.598	18.202	41.483	0.00	0.00
ATOM	5936	CB	LEU	X	394	51.640	18.499	41.893	0.00	0.00
ATOM	5937	HB2	LEU	X	394	51.860	17.436	41.804	0.00	0.00
ATOM	5938	HB3	LEU	X	394	52.409	19.097	41.404	0.00	0.00
ATOM	5939	CG	LEU	X	394	51.460	18.827	43.392	0.00	0.00
ATOM	5940	HG	LEU	X	394	51.570	19.903	43.534	0.00	0.00
ATOM	5941	CD1	LEU	X	394	50.106	18.308	43.966	0.00	0.00
ATOM	5942	HD11	LEU	X	394	50.207	18.442	45.043	0.00	0.00
ATOM	5943	HD12	LEU	X	394	49.281	18.922	43.604	0.00	0.00
ATOM	5944	HD13	LEU	X	394	49.990	17.258	43.696	0.00	0.00
ATOM	5945	CD2	LEU	X	394	52.597	18.254	44.271	0.00	0.00
ATOM	5946	HD21	LEU	X	394	52.452	18.644	45.278	0.00	0.00
ATOM	5947	HD22	LEU	X	394	52.523	17.175	44.408	0.00	0.00
ATOM	5948	HD23	LEU	X	394	53.570	18.545	43.873	0.00	0.00
ATOM	5949	C	LEU	X	394	49.974	20.133	40.878	0.00	0.00
ATOM	5950	O	LEU	X	394	49.060	20.554	41.475	0.00	0.00
ATOM	5951	N	SER	X	395	50.614	20.875	39.954	0.00	0.00
ATOM	5952	H	SER	X	395	51.275	20.412	39.346	0.00	0.00

ATOM	5953	CA	SER	X	395	50.182	22.244	39.609	0.00	0.00
ATOM	5954	HA	SER	X	395	50.196	22.869	40.502	0.00	0.00
ATOM	5955	CB	SER	X	395	51.165	22.897	38.636	0.00	0.00
ATOM	5956	HB2	SER	X	395	51.059	22.492	37.630	0.00	0.00
ATOM	5957	HB3	SER	X	395	50.999	23.971	38.555	0.00	0.00
ATOM	5958	OG	SER	X	395	52.529	22.762	38.980	0.00	0.00
ATOM	5959	HG	SER	X	395	52.753	21.841	39.128	0.00	0.00
ATOM	5960	C	SER	X	395	48.786	22.197	39.023	0.00	0.00
ATOM	5961	O	SER	X	395	47.949	23.038	39.374	0.00	0.00
ATOM	5962	N	ASP	X	396	48.509	21.277	38.105	0.00	0.00
ATOM	5963	H	ASP	X	396	49.248	20.676	37.769	0.00	0.00
ATOM	5964	CA	ASP	X	396	47.190	21.092	37.547	0.00	0.00
ATOM	5965	HA	ASP	X	396	46.747	22.007	37.153	0.00	0.00
ATOM	5966	CB	ASP	X	396	47.331	20.054	36.489	0.00	0.00
ATOM	5967	HB2	ASP	X	396	48.344	19.933	36.104	0.00	0.00
ATOM	5968	HB3	ASP	X	396	47.085	19.066	36.879	0.00	0.00
ATOM	5969	CG	ASP	X	396	46.398	20.089	35.267	0.00	0.00
ATOM	5970	OD1	ASP	X	396	46.079	19.024	34.744	0.00	0.00
ATOM	5971	OD2	ASP	X	396	46.067	21.124	34.662	0.00	0.00
ATOM	5972	C	ASP	X	396	46.122	20.754	38.661	0.00	0.00
ATOM	5973	O	ASP	X	396	45.222	21.586	38.736	0.00	0.00
ATOM	5974	N	VAL	X	397	46.277	19.722	39.512	0.00	0.00
ATOM	5975	H	VAL	X	397	47.030	19.094	39.270	0.00	0.00
ATOM	5976	CA	VAL	X	397	45.452	19.422	40.762	0.00	0.00
ATOM	5977	HA	VAL	X	397	44.455	19.140	40.423	0.00	0.00
ATOM	5978	CB	VAL	X	397	45.950	18.160	41.447	0.00	0.00
ATOM	5979	HB	VAL	X	397	47.009	18.404	41.523	0.00	0.00
ATOM	5980	CG1	VAL	X	397	45.334	17.993	42.875	0.00	0.00
ATOM	5981	HG11	VAL	X	397	45.775	18.786	43.480	0.00	0.00
ATOM	5982	HG12	VAL	X	397	44.269	18.225	42.869	0.00	0.00
ATOM	5983	HG13	VAL	X	397	45.603	17.042	43.335	0.00	0.00
ATOM	5984	CG2	VAL	X	397	45.719	16.897	40.623	0.00	0.00
ATOM	5985	HG21	VAL	X	397	46.287	16.052	41.013	0.00	0.00
ATOM	5986	HG22	VAL	X	397	44.683	16.565	40.691	0.00	0.00
ATOM	5987	HG23	VAL	X	397	45.973	17.088	39.580	0.00	0.00
ATOM	5988	C	VAL	X	397	45.247	20.645	41.658	0.00	0.00
ATOM	5989	O	VAL	X	397	44.096	20.911	42.069	0.00	0.00
ATOM	5990	N	VAL	X	398	46.315	21.382	42.015	0.00	0.00
ATOM	5991	H	VAL	X	398	47.248	21.095	41.754	0.00	0.00
ATOM	5992	CA	VAL	X	398	46.150	22.478	42.931	0.00	0.00
ATOM	5993	HA	VAL	X	398	45.604	22.001	43.745	0.00	0.00
ATOM	5994	CB	VAL	X	398	47.540	22.889	43.414	0.00	0.00
ATOM	5995	HB	VAL	X	398	48.172	22.702	42.545	0.00	0.00
ATOM	5996	CG1	VAL	X	398	47.619	24.320	44.025	0.00	0.00
ATOM	5997	HG11	VAL	X	398	48.569	24.470	44.536	0.00	0.00
ATOM	5998	HG12	VAL	X	398	47.579	25.033	43.201	0.00	0.00
ATOM	5999	HG13	VAL	X	398	46.810	24.598	44.700	0.00	0.00
ATOM	6000	CG2	VAL	X	398	47.867	21.973	44.570	0.00	0.00
ATOM	6001	HG21	VAL	X	398	47.118	21.919	45.360	0.00	0.00
ATOM	6002	HG22	VAL	X	398	47.971	20.948	44.215	0.00	0.00
ATOM	6003	HG23	VAL	X	398	48.718	22.399	45.101	0.00	0.00
ATOM	6004	C	VAL	X	398	45.291	23.632	42.327	0.00	0.00
ATOM	6005	O	VAL	X	398	44.578	24.291	43.078	0.00	0.00
ATOM	6006	N	GLY	X	399	45.321	23.823	41.027	0.00	0.00
ATOM	6007	H	GLY	X	399	45.974	23.290	40.471	0.00	0.00
ATOM	6008	CA	GLY	X	399	44.559	24.779	40.238	0.00	0.00
ATOM	6009	HA2	GLY	X	399	44.473	25.745	40.907	0.00	0.00
ATOM	6010	HA3	GLY	X	399	44.929	24.821	39.229	0.00	0.00
ATOM	6011	C	GLY	X	399	43.087	24.382	40.062	0.00	0.00
ATOM	6012	O	GLY	X	399	42.225	25.152	40.423	0.00	0.00
ATOM	6013	N	ASP	X	400	42.919	23.172	39.614	0.00	0.00
ATOM	6014	H	ASP	X	400	43.719	22.723	39.191	0.00	0.00
ATOM	6015	CA	ASP	X	400	41.597	22.596	39.341	0.00	0.00
ATOM	6016	HA	ASP	X	400	41.200	23.146	38.487	0.00	0.00
ATOM	6017	CB	ASP	X	400	41.787	21.078	38.974	0.00	0.00
ATOM	6018	HB2	ASP	X	400	42.546	20.625	39.612	0.00	0.00
ATOM	6019	HB3	ASP	X	400	40.857	20.539	39.152	0.00	0.00
ATOM	6020	CG	ASP	X	400	42.083	20.852	37.507	0.00	0.00
ATOM	6021	OD1	ASP	X	400	41.881	21.751	36.676	0.00	0.00
ATOM	6022	OD2	ASP	X	400	42.369	19.687	37.158	0.00	0.00

ATOM	6023	C	ASP	X	400	40.499	22.642	40.443	0.00	0.00
ATOM	6024	O	ASP	X	400	39.648	23.493	40.340	0.00	0.00
ATOM	6025	N	HIE	X	401	40.493	21.763	41.469	0.00	0.00
ATOM	6026	H	HIE	X	401	41.271	21.135	41.612	0.00	0.00
ATOM	6027	CA	HIE	X	401	39.425	21.712	42.524	0.00	0.00
ATOM	6028	HA	HIE	X	401	38.428	21.470	42.155	0.00	0.00
ATOM	6029	CB	HIE	X	401	39.975	20.612	43.526	0.00	0.00
ATOM	6030	HB2	HIE	X	401	40.206	19.733	42.924	0.00	0.00
ATOM	6031	HB3	HIE	X	401	40.958	20.947	43.857	0.00	0.00
ATOM	6032	CG	HIE	X	401	39.079	20.369	44.728	0.00	0.00
ATOM	6033	ND1	HIE	X	401	39.398	20.611	46.050	0.00	0.00
ATOM	6034	CE1	HIE	X	401	38.259	20.457	46.727	0.00	0.00
ATOM	6035	HE1	HIE	X	401	38.202	20.546	47.802	0.00	0.00
ATOM	6036	NE2	HIE	X	401	37.272	20.112	45.925	0.00	0.00
ATOM	6037	HE2	HIE	X	401	36.348	19.848	46.237	0.00	0.00
ATOM	6038	CD2	HIE	X	401	37.791	19.941	44.676	0.00	0.00
ATOM	6039	HD2	HIE	X	401	37.177	19.685	43.825	0.00	0.00
ATOM	6040	C	HIE	X	401	39.188	23.047	43.205	0.00	0.00
ATOM	6041	O	HIE	X	401	38.063	23.458	43.489	0.00	0.00
ATOM	6042	N	ASN	X	402	40.255	23.804	43.415	0.00	0.00
ATOM	6043	H	ASN	X	402	41.169	23.505	43.108	0.00	0.00
ATOM	6044	CA	ASN	X	402	40.267	25.117	44.003	0.00	0.00
ATOM	6045	HA	ASN	X	402	39.645	24.965	44.885	0.00	0.00
ATOM	6046	CB	ASN	X	402	41.625	25.541	44.634	0.00	0.00
ATOM	6047	HB2	ASN	X	402	42.370	25.377	43.855	0.00	0.00
ATOM	6048	HB3	ASN	X	402	41.604	26.610	44.849	0.00	0.00
ATOM	6049	CG	ASN	X	402	42.067	24.834	45.907	0.00	0.00
ATOM	6050	OD1	ASN	X	402	41.477	25.070	46.965	0.00	0.00
ATOM	6051	ND2	ASN	X	402	43.176	24.075	45.881	0.00	0.00
ATOM	6052	HD21	ASN	X	402	43.441	23.548	46.701	0.00	0.00
ATOM	6053	HD22	ASN	X	402	43.653	23.799	45.035	0.00	0.00
ATOM	6054	C	ASN	X	402	39.639	26.256	43.160	0.00	0.00
ATOM	6055	O	ASN	X	402	38.860	27.008	43.786	0.00	0.00
ATOM	6056	N	VAL	X	403	40.020	26.316	41.902	0.00	0.00
ATOM	6057	H	VAL	X	403	40.650	25.616	41.537	0.00	0.00
ATOM	6058	CA	VAL	X	403	39.700	27.552	41.040	0.00	0.00
ATOM	6059	HA	VAL	X	403	38.859	28.036	41.537	0.00	0.00
ATOM	6060	CB	VAL	X	403	40.884	28.477	40.807	0.00	0.00
ATOM	6061	HB	VAL	X	403	41.771	27.877	40.602	0.00	0.00
ATOM	6062	CG1	VAL	X	403	40.513	29.541	39.784	0.00	0.00
ATOM	6063	HG11	VAL	X	403	41.312	30.281	39.735	0.00	0.00
ATOM	6064	HG12	VAL	X	403	40.314	29.090	38.812	0.00	0.00
ATOM	6065	HG13	VAL	X	403	39.620	30.017	40.187	0.00	0.00
ATOM	6066	CG2	VAL	X	403	41.202	29.012	42.182	0.00	0.00
ATOM	6067	HG21	VAL	X	403	41.637	28.210	42.779	0.00	0.00
ATOM	6068	HG22	VAL	X	403	41.760	29.939	42.053	0.00	0.00
ATOM	6069	HG23	VAL	X	403	40.370	29.426	42.751	0.00	0.00
ATOM	6070	C	VAL	X	403	39.113	27.149	39.670	0.00	0.00
ATOM	6071	O	VAL	X	403	37.972	27.523	39.286	0.00	0.00
ATOM	6072	N	VAL	X	404	39.874	26.261	38.966	0.00	0.00
ATOM	6073	H	VAL	X	404	40.795	26.036	39.315	0.00	0.00
ATOM	6074	CA	VAL	X	404	39.540	26.134	37.504	0.00	0.00
ATOM	6075	HA	VAL	X	404	39.356	27.125	37.090	0.00	0.00
ATOM	6076	CB	VAL	X	404	40.626	25.508	36.674	0.00	0.00
ATOM	6077	HB	VAL	X	404	40.899	24.524	37.055	0.00	0.00
ATOM	6078	CG1	VAL	X	404	40.256	25.372	35.226	0.00	0.00
ATOM	6079	HG11	VAL	X	404	39.804	26.346	35.037	0.00	0.00
ATOM	6080	HG12	VAL	X	404	41.048	25.051	34.549	0.00	0.00
ATOM	6081	HG13	VAL	X	404	39.543	24.563	35.067	0.00	0.00
ATOM	6082	CG2	VAL	X	404	41.856	26.474	36.709	0.00	0.00
ATOM	6083	HG21	VAL	X	404	41.609	27.487	36.391	0.00	0.00
ATOM	6084	HG22	VAL	X	404	42.366	26.419	37.671	0.00	0.00
ATOM	6085	HG23	VAL	X	404	42.580	26.107	35.981	0.00	0.00
ATOM	6086	C	VAL	X	404	38.276	25.260	37.298	0.00	0.00
ATOM	6087	O	VAL	X	404	37.379	25.608	36.513	0.00	0.00
ATOM	6088	N	CYX	X	405	38.050	24.237	38.128	0.00	0.00
ATOM	6089	H	CYX	X	405	38.857	23.885	38.624	0.00	0.00
ATOM	6090	CA	CYX	X	405	36.876	23.396	38.167	0.00	0.00
ATOM	6091	HA	CYX	X	405	36.716	23.189	37.109	0.00	0.00
ATOM	6092	CB	CYX	X	405	37.085	22.084	38.856	0.00	0.00

ATOM	6093	HB2	CYX	X	405	37.653	22.223	39.776	0.00	0.00
ATOM	6094	HB3	CYX	X	405	36.074	21.850	39.190	0.00	0.00
ATOM	6095	SG	CYX	X	405	37.843	20.695	37.852	0.00	0.00
ATOM	6096	C	CYX	X	405	35.622	24.106	38.577	0.00	0.00
ATOM	6097	O	CYX	X	405	34.510	23.827	38.033	0.00	0.00
ATOM	6098	N	PRO	X	406	35.685	24.935	39.642	0.00	0.00
ATOM	6099	CD	PRO	X	406	36.568	24.830	40.769	0.00	0.00
ATOM	6100	HD2	PRO	X	406	37.555	25.173	40.458	0.00	0.00
ATOM	6101	HD3	PRO	X	406	36.620	23.780	41.057	0.00	0.00
ATOM	6102	CG	PRO	X	406	36.072	25.774	41.823	0.00	0.00
ATOM	6103	HG2	PRO	X	406	36.823	26.284	42.427	0.00	0.00
ATOM	6104	HG3	PRO	X	406	35.448	25.220	42.524	0.00	0.00
ATOM	6105	CB	PRO	X	406	35.162	26.724	41.104	0.00	0.00
ATOM	6106	HB2	PRO	X	406	35.801	27.592	40.943	0.00	0.00
ATOM	6107	HB3	PRO	X	406	34.351	26.990	41.781	0.00	0.00
ATOM	6108	CA	PRO	X	406	34.631	25.980	39.923	0.00	0.00
ATOM	6109	HA	PRO	X	406	33.721	25.458	40.218	0.00	0.00
ATOM	6110	C	PRO	X	406	34.421	26.887	38.751	0.00	0.00
ATOM	6111	O	PRO	X	406	33.274	26.838	38.256	0.00	0.00
ATOM	6112	N	VAL	X	407	35.449	27.399	38.095	0.00	0.00
ATOM	6113	H	VAL	X	407	36.364	27.489	38.513	0.00	0.00
ATOM	6114	CA	VAL	X	407	35.301	28.330	36.900	0.00	0.00
ATOM	6115	HA	VAL	X	407	34.524	29.029	37.210	0.00	0.00
ATOM	6116	CB	VAL	X	407	36.705	28.928	36.536	0.00	0.00
ATOM	6117	HB	VAL	X	407	37.404	28.204	36.954	0.00	0.00
ATOM	6118	CG1	VAL	X	407	36.992	29.154	34.981	0.00	0.00
ATOM	6119	HG11	VAL	X	407	36.797	28.223	34.448	0.00	0.00
ATOM	6120	HG12	VAL	X	407	36.286	29.898	34.610	0.00	0.00
ATOM	6121	HG13	VAL	X	407	37.996	29.575	35.029	0.00	0.00
ATOM	6122	CG2	VAL	X	407	36.949	30.271	37.236	0.00	0.00
ATOM	6123	HG21	VAL	X	407	37.786	30.878	36.894	0.00	0.00
ATOM	6124	HG22	VAL	X	407	36.115	30.952	37.064	0.00	0.00
ATOM	6125	HG23	VAL	X	407	37.092	30.067	38.297	0.00	0.00
ATOM	6126	C	VAL	X	407	34.557	27.613	35.695	0.00	0.00
ATOM	6127	O	VAL	X	407	33.919	28.247	34.928	0.00	0.00
ATOM	6128	N	ALA	X	408	34.796	26.276	35.516	0.00	0.00
ATOM	6129	H	ALA	X	408	35.163	25.777	36.315	0.00	0.00
ATOM	6130	CA	ALA	X	408	34.088	25.486	34.531	0.00	0.00
ATOM	6131	HA	ALA	X	408	34.088	26.058	33.604	0.00	0.00
ATOM	6132	CB	ALA	X	408	34.828	24.209	34.290	0.00	0.00
ATOM	6133	HB1	ALA	X	408	35.888	24.457	34.243	0.00	0.00
ATOM	6134	HB2	ALA	X	408	34.756	23.518	35.130	0.00	0.00
ATOM	6135	HB3	ALA	X	408	34.524	23.752	33.348	0.00	0.00
ATOM	6136	C	ALA	X	408	32.562	25.342	34.796	0.00	0.00
ATOM	6137	O	ALA	X	408	31.756	25.691	33.939	0.00	0.00
ATOM	6138	N	GLN	X	409	32.217	24.878	36.000	0.00	0.00
ATOM	6139	H	GLN	X	409	32.913	24.467	36.606	0.00	0.00
ATOM	6140	CA	GLN	X	409	30.825	24.662	36.485	0.00	0.00
ATOM	6141	HA	GLN	X	409	30.170	24.146	35.784	0.00	0.00
ATOM	6142	CB	GLN	X	409	30.856	23.766	37.725	0.00	0.00
ATOM	6143	HB2	GLN	X	409	31.489	22.983	37.309	0.00	0.00
ATOM	6144	HB3	GLN	X	409	31.360	24.176	38.601	0.00	0.00
ATOM	6145	CG	GLN	X	409	29.552	23.134	38.218	0.00	0.00
ATOM	6146	HG2	GLN	X	409	28.899	23.872	38.684	0.00	0.00
ATOM	6147	HG3	GLN	X	409	29.007	22.683	37.388	0.00	0.00
ATOM	6148	CD	GLN	X	409	29.759	22.169	39.364	0.00	0.00
ATOM	6149	OE1	GLN	X	409	30.036	22.476	40.559	0.00	0.00
ATOM	6150	NE2	GLN	X	409	29.622	20.923	38.973	0.00	0.00
ATOM	6151	HE21	GLN	X	409	29.712	20.133	39.596	0.00	0.00
ATOM	6152	HE22	GLN	X	409	29.480	20.719	37.994	0.00	0.00
ATOM	6153	C	GLN	X	409	30.080	25.952	36.947	0.00	0.00
ATOM	6154	O	GLN	X	409	28.915	25.906	37.308	0.00	0.00
ATOM	6155	N	LEU	X	410	30.805	27.095	36.890	0.00	0.00
ATOM	6156	H	LEU	X	410	31.810	27.095	36.789	0.00	0.00
ATOM	6157	CA	LEU	X	410	30.206	28.404	36.967	0.00	0.00
ATOM	6158	HA	LEU	X	410	29.369	28.447	37.665	0.00	0.00
ATOM	6159	CB	LEU	X	410	31.338	29.346	37.432	0.00	0.00
ATOM	6160	HB2	LEU	X	410	31.662	28.978	38.406	0.00	0.00
ATOM	6161	HB3	LEU	X	410	32.142	29.244	36.703	0.00	0.00
ATOM	6162	CG	LEU	X	410	30.943	30.785	37.533	0.00	0.00

ATOM	6163	HG	LEU	X	410	30.681	31.219	36.569	0.00	0.00
ATOM	6164	CD1	LEU	X	410	29.809	31.069	38.511	0.00	0.00
ATOM	6165	HD11	LEU	X	410	28.844	30.601	38.317	0.00	0.00
ATOM	6166	HD12	LEU	X	410	30.184	30.705	39.468	0.00	0.00
ATOM	6167	HD13	LEU	X	410	29.726	32.143	38.673	0.00	0.00
ATOM	6168	CD2	LEU	X	410	32.258	31.539	37.964	0.00	0.00
ATOM	6169	HD21	LEU	X	410	32.080	32.613	37.913	0.00	0.00
ATOM	6170	HD22	LEU	X	410	32.522	31.270	38.987	0.00	0.00
ATOM	6171	HD23	LEU	X	410	33.062	31.323	37.261	0.00	0.00
ATOM	6172	C	LEU	X	410	29.568	28.732	35.579	0.00	0.00
ATOM	6173	O	LEU	X	410	28.363	28.935	35.504	0.00	0.00
ATOM	6174	N	ALA	X	411	30.359	28.733	34.496	0.00	0.00
ATOM	6175	H	ALA	X	411	31.344	28.610	34.680	0.00	0.00
ATOM	6176	CA	ALA	X	411	29.965	29.148	33.208	0.00	0.00
ATOM	6177	HA	ALA	X	411	29.711	30.206	33.275	0.00	0.00
ATOM	6178	CB	ALA	X	411	31.200	29.123	32.360	0.00	0.00
ATOM	6179	HB1	ALA	X	411	31.677	28.147	32.447	0.00	0.00
ATOM	6180	HB2	ALA	X	411	30.933	29.483	31.366	0.00	0.00
ATOM	6181	HB3	ALA	X	411	31.900	29.829	32.805	0.00	0.00
ATOM	6182	C	ALA	X	411	28.856	28.248	32.634	0.00	0.00
ATOM	6183	O	ALA	X	411	28.089	28.693	31.782	0.00	0.00
ATOM	6184	N	GLY	X	412	28.817	26.927	32.910	0.00	0.00
ATOM	6185	H	GLY	X	412	29.682	26.584	33.302	0.00	0.00
ATOM	6186	CA	GLY	X	412	27.712	25.995	32.420	0.00	0.00
ATOM	6187	HA2	GLY	X	412	27.598	26.089	31.314	0.00	0.00
ATOM	6188	HA3	GLY	X	412	28.025	25.076	32.777	0.00	0.00
ATOM	6189	C	GLY	X	412	26.425	26.512	32.974	0.00	0.00
ATOM	6190	O	GLY	X	412	25.626	27.037	32.258	0.00	0.00
ATOM	6191	N	ARG	X	413	26.226	26.424	34.258	0.00	0.00
ATOM	6192	H	ARG	X	413	26.907	25.975	34.854	0.00	0.00
ATOM	6193	CA	ARG	X	413	25.027	26.889	35.026	0.00	0.00
ATOM	6194	HA	ARG	X	413	24.181	26.347	34.601	0.00	0.00
ATOM	6195	CB	ARG	X	413	25.208	26.441	36.498	0.00	0.00
ATOM	6196	HB2	ARG	X	413	26.038	27.012	36.914	0.00	0.00
ATOM	6197	HB3	ARG	X	413	24.252	26.716	36.945	0.00	0.00
ATOM	6198	CG	ARG	X	413	25.344	24.942	36.713	0.00	0.00
ATOM	6199	HG2	ARG	X	413	24.372	24.525	36.449	0.00	0.00
ATOM	6200	HG3	ARG	X	413	26.208	24.629	36.126	0.00	0.00
ATOM	6201	CD	ARG	X	413	25.606	24.624	38.155	0.00	0.00
ATOM	6202	HD2	ARG	X	413	26.577	25.023	38.451	0.00	0.00
ATOM	6203	HD3	ARG	X	413	24.756	25.011	38.716	0.00	0.00
ATOM	6204	NE	ARG	X	413	25.516	23.160	38.410	0.00	0.00
ATOM	6205	HE	ARG	X	413	25.297	22.572	37.619	0.00	0.00
ATOM	6206	CZ	ARG	X	413	25.900	22.542	39.494	0.00	0.00
ATOM	6207	NH1	ARG	X	413	26.223	23.208	40.549	0.00	0.00
ATOM	6208	HH11	ARG	X	413	26.208	24.213	40.652	0.00	0.00
ATOM	6209	HH12	ARG	X	413	26.426	22.567	41.303	0.00	0.00
ATOM	6210	NH2	ARG	X	413	25.900	21.266	39.565	0.00	0.00
ATOM	6211	HH21	ARG	X	413	25.664	20.669	38.785	0.00	0.00
ATOM	6212	HH22	ARG	X	413	25.907	20.873	40.496	0.00	0.00
ATOM	6213	C	ARG	X	413	24.603	28.356	34.869	0.00	0.00
ATOM	6214	O	ARG	X	413	23.434	28.577	34.805	0.00	0.00
ATOM	6215	N	LEU	X	414	25.490	29.354	34.808	0.00	0.00
ATOM	6216	H	LEU	X	414	26.450	29.106	34.999	0.00	0.00
ATOM	6217	CA	LEU	X	414	25.071	30.763	34.526	0.00	0.00
ATOM	6218	HA	LEU	X	414	24.325	31.005	35.284	0.00	0.00
ATOM	6219	CB	LEU	X	414	26.256	31.732	34.456	0.00	0.00
ATOM	6220	HB2	LEU	X	414	27.072	31.356	33.839	0.00	0.00
ATOM	6221	HB3	LEU	X	414	25.855	32.632	33.989	0.00	0.00
ATOM	6222	CG	LEU	X	414	26.834	32.100	35.843	0.00	0.00
ATOM	6223	HG	LEU	X	414	26.967	31.242	36.501	0.00	0.00
ATOM	6224	CD1	LEU	X	414	28.187	32.799	35.680	0.00	0.00
ATOM	6225	HD11	LEU	X	414	28.019	33.662	35.036	0.00	0.00
ATOM	6226	HD12	LEU	X	414	28.585	33.019	36.670	0.00	0.00
ATOM	6227	HD13	LEU	X	414	28.928	32.160	35.200	0.00	0.00
ATOM	6228	CD2	LEU	X	414	25.737	32.968	36.613	0.00	0.00
ATOM	6229	HD21	LEU	X	414	24.929	32.330	36.969	0.00	0.00
ATOM	6230	HD22	LEU	X	414	26.305	33.382	37.447	0.00	0.00
ATOM	6231	HD23	LEU	X	414	25.495	33.722	35.864	0.00	0.00
ATOM	6232	C	LEU	X	414	24.433	30.839	33.072	0.00	0.00

ATOM	6233	O	LEU	X	414	23.264	31.128	32.903	0.00	0.00
ATOM	6234	N	ALA	X	415	25.120	30.351	32.012	0.00	0.00
ATOM	6235	H	ALA	X	415	26.052	29.985	32.146	0.00	0.00
ATOM	6236	CA	ALA	X	415	24.668	30.333	30.591	0.00	0.00
ATOM	6237	HA	ALA	X	415	24.425	31.361	30.320	0.00	0.00
ATOM	6238	CB	ALA	X	415	25.706	29.606	29.675	0.00	0.00
ATOM	6239	HB1	ALA	X	415	25.381	29.684	28.637	0.00	0.00
ATOM	6240	HB2	ALA	X	415	26.599	30.215	29.817	0.00	0.00
ATOM	6241	HB3	ALA	X	415	25.938	28.596	30.012	0.00	0.00
ATOM	6242	C	ALA	X	415	23.265	29.516	30.531	0.00	0.00
ATOM	6243	O	ALA	X	415	22.223	30.046	30.209	0.00	0.00
ATOM	6244	N	ALA	X	416	23.248	28.236	30.951	0.00	0.00
ATOM	6245	H	ALA	X	416	24.113	27.849	31.301	0.00	0.00
ATOM	6246	CA	ALA	X	416	22.022	27.329	30.986	0.00	0.00
ATOM	6247	HA	ALA	X	416	21.630	27.261	29.971	0.00	0.00
ATOM	6248	CB	ALA	X	416	22.432	25.993	31.481	0.00	0.00
ATOM	6249	HB1	ALA	X	416	22.774	26.206	32.494	0.00	0.00
ATOM	6250	HB2	ALA	X	416	21.611	25.280	31.406	0.00	0.00
ATOM	6251	HB3	ALA	X	416	23.261	25.643	30.866	0.00	0.00
ATOM	6252	C	ALA	X	416	20.856	27.914	31.798	0.00	0.00
ATOM	6253	O	ALA	X	416	19.706	27.407	31.563	0.00	0.00
ATOM	6254	N	GLN	X	417	21.088	28.825	32.692	0.00	0.00
ATOM	6255	H	GLN	X	417	22.002	29.246	32.778	0.00	0.00
ATOM	6256	CA	GLN	X	417	20.013	29.541	33.423	0.00	0.00
ATOM	6257	HA	GLN	X	417	19.106	28.956	33.270	0.00	0.00
ATOM	6258	CB	GLN	X	417	20.358	29.586	34.923	0.00	0.00
ATOM	6259	HB2	GLN	X	417	21.335	30.025	35.127	0.00	0.00
ATOM	6260	HB3	GLN	X	417	19.602	30.160	35.459	0.00	0.00
ATOM	6261	CG	GLN	X	417	20.445	28.196	35.540	0.00	0.00
ATOM	6262	HG2	GLN	X	417	19.441	27.789	35.666	0.00	0.00
ATOM	6263	HG3	GLN	X	417	20.978	27.428	34.981	0.00	0.00
ATOM	6264	CD	GLN	X	417	21.194	28.110	36.893	0.00	0.00
ATOM	6265	OE1	GLN	X	417	21.936	27.106	37.097	0.00	0.00
ATOM	6266	NE2	GLN	X	417	20.977	28.986	37.792	0.00	0.00
ATOM	6267	HE21	GLN	X	417	21.613	29.080	38.571	0.00	0.00
ATOM	6268	HE22	GLN	X	417	20.308	29.716	37.590	0.00	0.00
ATOM	6269	C	GLN	X	417	19.743	30.978	32.970	0.00	0.00
ATOM	6270	O	GLN	X	417	19.140	31.799	33.695	0.00	0.00
ATOM	6271	N	GLY	X	418	20.233	31.294	31.774	0.00	0.00
ATOM	6272	H	GLY	X	418	20.830	30.645	31.281	0.00	0.00
ATOM	6273	CA	GLY	X	418	19.887	32.443	30.929	0.00	0.00
ATOM	6274	HA2	GLY	X	418	19.456	32.106	30.028	0.00	0.00
ATOM	6275	HA3	GLY	X	418	19.181	33.087	31.392	0.00	0.00
ATOM	6276	C	GLY	X	418	20.850	33.570	30.594	0.00	0.00
ATOM	6277	O	GLY	X	418	20.436	34.550	29.961	0.00	0.00
ATOM	6278	N	ALA	X	419	22.081	33.454	31.143	0.00	0.00
ATOM	6279	H	ALA	X	419	22.357	32.576	31.559	0.00	0.00
ATOM	6280	CA	ALA	X	419	23.166	34.437	30.836	0.00	0.00
ATOM	6281	HA	ALA	X	419	22.659	35.397	30.933	0.00	0.00
ATOM	6282	CB	ALA	X	419	24.259	34.249	31.880	0.00	0.00
ATOM	6283	HB1	ALA	X	419	24.857	33.355	31.698	0.00	0.00
ATOM	6284	HB2	ALA	X	419	24.878	35.145	31.922	0.00	0.00
ATOM	6285	HB3	ALA	X	419	23.756	34.150	32.842	0.00	0.00
ATOM	6286	C	ALA	X	419	23.824	34.216	29.492	0.00	0.00
ATOM	6287	O	ALA	X	419	23.728	33.100	28.924	0.00	0.00
ATOM	6288	N	ARG	X	420	24.440	35.245	28.936	0.00	0.00
ATOM	6289	H	ARG	X	420	24.502	36.074	29.509	0.00	0.00
ATOM	6290	CA	ARG	X	420	25.416	35.149	27.794	0.00	0.00
ATOM	6291	HA	ARG	X	420	25.322	34.217	27.238	0.00	0.00
ATOM	6292	CB	ARG	X	420	25.138	36.334	26.825	0.00	0.00
ATOM	6293	HB2	ARG	X	420	24.151	36.176	26.391	0.00	0.00
ATOM	6294	HB3	ARG	X	420	25.350	37.313	27.253	0.00	0.00
ATOM	6295	CG	ARG	X	420	26.037	36.275	25.587	0.00	0.00
ATOM	6296	HG2	ARG	X	420	27.020	36.303	26.057	0.00	0.00
ATOM	6297	HG3	ARG	X	420	25.946	35.299	25.111	0.00	0.00
ATOM	6298	CD	ARG	X	420	25.605	37.345	24.523	0.00	0.00
ATOM	6299	HD2	ARG	X	420	24.552	37.233	24.263	0.00	0.00
ATOM	6300	HD3	ARG	X	420	25.784	38.354	24.893	0.00	0.00
ATOM	6301	NE	ARG	X	420	26.374	37.309	23.289	0.00	0.00
ATOM	6302	HE	ARG	X	420	27.195	37.890	23.188	0.00	0.00

ATOM	6303	CZ	ARG	X	420	25.918	36.544	22.258	0.00	0.00
ATOM	6304	NH1	ARG	X	420	24.925	35.625	22.263	0.00	0.00
ATOM	6305	HH11	ARG	X	420	24.387	35.403	23.088	0.00	0.00
ATOM	6306	HH12	ARG	X	420	24.604	35.297	21.363	0.00	0.00
ATOM	6307	NH2	ARG	X	420	26.388	36.706	21.097	0.00	0.00
ATOM	6308	HH21	ARG	X	420	26.823	37.601	20.924	0.00	0.00
ATOM	6309	HH22	ARG	X	420	26.366	36.000	20.374	0.00	0.00
ATOM	6310	C	ARG	X	420	26.813	35.217	28.395	0.00	0.00
ATOM	6311	O	ARG	X	420	27.175	36.187	28.946	0.00	0.00
ATOM	6312	N	VAL	X	421	27.616	34.116	28.341	0.00	0.00
ATOM	6313	H	VAL	X	421	27.206	33.268	27.976	0.00	0.00
ATOM	6314	CA	VAL	X	421	28.917	33.938	29.002	0.00	0.00
ATOM	6315	HA	VAL	X	421	29.103	34.812	29.627	0.00	0.00
ATOM	6316	CB	VAL	X	421	28.836	32.713	29.935	0.00	0.00
ATOM	6317	HB	VAL	X	421	28.729	31.778	29.384	0.00	0.00
ATOM	6318	CG1	VAL	X	421	30.046	32.499	30.908	0.00	0.00
ATOM	6319	HG11	VAL	X	421	30.961	32.460	30.316	0.00	0.00
ATOM	6320	HG12	VAL	X	421	30.013	33.371	31.561	0.00	0.00
ATOM	6321	HG13	VAL	X	421	29.922	31.516	31.361	0.00	0.00
ATOM	6322	CG2	VAL	X	421	27.590	32.741	30.812	0.00	0.00
ATOM	6323	HG21	VAL	X	421	26.776	32.513	30.123	0.00	0.00
ATOM	6324	HG22	VAL	X	421	27.576	32.088	31.685	0.00	0.00
ATOM	6325	HG23	VAL	X	421	27.403	33.689	31.315	0.00	0.00
ATOM	6326	C	VAL	X	421	29.998	33.829	27.989	0.00	0.00
ATOM	6327	O	VAL	X	421	29.699	33.410	26.865	0.00	0.00
ATOM	6328	N	TYR	X	422	31.176	34.305	28.336	0.00	0.00
ATOM	6329	H	TYR	X	422	31.275	34.897	29.148	0.00	0.00
ATOM	6330	CA	TYR	X	422	32.358	34.271	27.436	0.00	0.00
ATOM	6331	HA	TYR	X	422	32.124	33.645	26.575	0.00	0.00
ATOM	6332	CB	TYR	X	422	32.595	35.591	26.804	0.00	0.00
ATOM	6333	HB2	TYR	X	422	32.505	36.376	27.554	0.00	0.00
ATOM	6334	HB3	TYR	X	422	33.614	35.680	26.427	0.00	0.00
ATOM	6335	CG	TYR	X	422	31.595	35.915	25.774	0.00	0.00
ATOM	6336	CD1	TYR	X	422	31.905	35.596	24.481	0.00	0.00
ATOM	6337	HD1	TYR	X	422	32.782	35.017	24.231	0.00	0.00
ATOM	6338	CE1	TYR	X	422	31.065	36.061	23.441	0.00	0.00
ATOM	6339	HE1	TYR	X	422	31.349	35.735	22.452	0.00	0.00
ATOM	6340	CZ	TYR	X	422	29.929	36.809	23.687	0.00	0.00
ATOM	6341	OH	TYR	X	422	29.076	37.163	22.690	0.00	0.00
ATOM	6342	HH	TYR	X	422	29.372	36.846	21.833	0.00	0.00
ATOM	6343	CE2	TYR	X	422	29.692	37.172	25.027	0.00	0.00
ATOM	6344	HE2	TYR	X	422	28.820	37.761	25.268	0.00	0.00
ATOM	6345	CD2	TYR	X	422	30.488	36.690	26.068	0.00	0.00
ATOM	6346	HD2	TYR	X	422	30.275	37.021	27.073	0.00	0.00
ATOM	6347	C	TYR	X	422	33.610	33.749	28.073	0.00	0.00
ATOM	6348	O	TYR	X	422	34.083	34.414	28.928	0.00	0.00
ATOM	6349	N	ALA	X	423	34.148	32.585	27.764	0.00	0.00
ATOM	6350	H	ALA	X	423	33.637	31.923	27.196	0.00	0.00
ATOM	6351	CA	ALA	X	423	35.365	31.981	28.373	0.00	0.00
ATOM	6352	HA	ALA	X	423	35.539	32.474	29.330	0.00	0.00
ATOM	6353	CB	ALA	X	423	35.085	30.477	28.637	0.00	0.00
ATOM	6354	HB1	ALA	X	423	35.883	29.937	29.146	0.00	0.00
ATOM	6355	HB2	ALA	X	423	34.271	30.608	29.349	0.00	0.00
ATOM	6356	HB3	ALA	X	423	34.529	30.007	27.825	0.00	0.00
ATOM	6357	C	ALA	X	423	36.632	32.064	27.588	0.00	0.00
ATOM	6358	O	ALA	X	423	36.664	31.884	26.354	0.00	0.00
ATOM	6359	N	TYR	X	424	37.700	32.334	28.366	0.00	0.00
ATOM	6360	H	TYR	X	424	37.625	32.427	29.369	0.00	0.00
ATOM	6361	CA	TYR	X	424	39.139	32.369	27.896	0.00	0.00
ATOM	6362	HA	TYR	X	424	39.218	31.969	26.885	0.00	0.00
ATOM	6363	CB	TYR	X	424	39.703	33.782	27.841	0.00	0.00
ATOM	6364	HB2	TYR	X	424	40.646	33.794	27.295	0.00	0.00
ATOM	6365	HB3	TYR	X	424	39.039	34.317	27.162	0.00	0.00
ATOM	6366	CG	TYR	X	424	39.957	34.534	29.103	0.00	0.00
ATOM	6367	CD1	TYR	X	424	41.257	34.497	29.718	0.00	0.00
ATOM	6368	HD1	TYR	X	424	42.030	33.901	29.257	0.00	0.00
ATOM	6369	CE1	TYR	X	424	41.464	35.089	31.005	0.00	0.00
ATOM	6370	HE1	TYR	X	424	42.393	35.058	31.555	0.00	0.00
ATOM	6371	CZ	TYR	X	424	40.350	35.647	31.618	0.00	0.00
ATOM	6372	OH	TYR	X	424	40.566	36.216	32.823	0.00	0.00

ATOM	6373	HH	TYR	X	424	41.500	36.112	33.017	0.00	0.00
ATOM	6374	CE2	TYR	X	424	39.096	35.720	30.984	0.00	0.00
ATOM	6375	HE2	TYR	X	424	38.292	36.299	31.414	0.00	0.00
ATOM	6376	CD2	TYR	X	424	38.875	35.214	29.671	0.00	0.00
ATOM	6377	HD2	TYR	X	424	37.937	35.212	29.137	0.00	0.00
ATOM	6378	C	TYR	X	424	40.086	31.511	28.746	0.00	0.00
ATOM	6379	O	TYR	X	424	39.842	31.304	29.904	0.00	0.00
ATOM	6380	N	VAL	X	425	41.247	31.092	28.201	0.00	0.00
ATOM	6381	H	VAL	X	425	41.413	31.233	27.215	0.00	0.00
ATOM	6382	CA	VAL	X	425	42.438	30.794	28.908	0.00	0.00
ATOM	6383	HA	VAL	X	425	42.201	31.067	29.936	0.00	0.00
ATOM	6384	CB	VAL	X	425	42.818	29.253	28.885	0.00	0.00
ATOM	6385	HB	VAL	X	425	43.865	29.255	29.187	0.00	0.00
ATOM	6386	CG1	VAL	X	425	41.818	28.516	29.848	0.00	0.00
ATOM	6387	HG11	VAL	X	425	42.172	27.492	29.732	0.00	0.00
ATOM	6388	HG12	VAL	X	425	41.876	28.743	30.913	0.00	0.00
ATOM	6389	HG13	VAL	X	425	40.795	28.639	29.494	0.00	0.00
ATOM	6390	CG2	VAL	X	425	42.697	28.700	27.455	0.00	0.00
ATOM	6391	HG21	VAL	X	425	41.686	28.695	27.046	0.00	0.00
ATOM	6392	HG22	VAL	X	425	43.286	29.302	26.763	0.00	0.00
ATOM	6393	HG23	VAL	X	425	43.059	27.673	27.416	0.00	0.00
ATOM	6394	C	VAL	X	425	43.566	31.602	28.381	0.00	0.00
ATOM	6395	O	VAL	X	425	43.597	31.764	27.156	0.00	0.00
ATOM	6396	N	PHE	X	426	44.562	32.010	29.213	0.00	0.00
ATOM	6397	H	PHE	X	426	44.394	31.811	30.189	0.00	0.00
ATOM	6398	CA	PHE	X	426	45.660	32.832	28.737	0.00	0.00
ATOM	6399	HA	PHE	X	426	45.635	33.159	27.698	0.00	0.00
ATOM	6400	CB	PHE	X	426	45.750	34.063	29.616	0.00	0.00
ATOM	6401	HB2	PHE	X	426	44.817	34.626	29.633	0.00	0.00
ATOM	6402	HB3	PHE	X	426	45.721	33.640	30.620	0.00	0.00
ATOM	6403	CG	PHE	X	426	46.944	35.005	29.491	0.00	0.00
ATOM	6404	CD1	PHE	X	426	47.059	35.825	28.343	0.00	0.00
ATOM	6405	HD1	PHE	X	426	46.292	35.899	27.586	0.00	0.00
ATOM	6406	CE1	PHE	X	426	48.174	36.663	28.232	0.00	0.00
ATOM	6407	HE1	PHE	X	426	48.323	37.336	27.400	0.00	0.00
ATOM	6408	CZ	PHE	X	426	49.130	36.789	29.273	0.00	0.00
ATOM	6409	HZ	PHE	X	426	49.907	37.539	29.262	0.00	0.00
ATOM	6410	CE2	PHE	X	426	49.080	35.927	30.320	0.00	0.00
ATOM	6411	HE2	PHE	X	426	49.887	36.002	31.034	0.00	0.00
ATOM	6412	CD2	PHE	X	426	47.989	34.955	30.400	0.00	0.00
ATOM	6413	HD2	PHE	X	426	47.907	34.259	31.221	0.00	0.00
ATOM	6414	C	PHE	X	426	46.934	32.010	28.832	0.00	0.00
ATOM	6415	O	PHE	X	426	47.112	31.382	29.938	0.00	0.00
ATOM	6416	N	GLU	X	427	47.834	32.054	27.878	0.00	0.00
ATOM	6417	H	GLU	X	427	47.511	32.511	27.037	0.00	0.00
ATOM	6418	CA	GLU	X	427	48.959	31.181	27.752	0.00	0.00
ATOM	6419	HA	GLU	X	427	49.187	31.074	28.813	0.00	0.00
ATOM	6420	CB	GLU	X	427	48.521	29.833	27.171	0.00	0.00
ATOM	6421	HB2	GLU	X	427	49.255	29.038	27.297	0.00	0.00
ATOM	6422	HB3	GLU	X	427	47.598	29.487	27.637	0.00	0.00
ATOM	6423	CG	GLU	X	427	48.268	29.931	25.669	0.00	0.00
ATOM	6424	HG2	GLU	X	427	47.468	30.663	25.561	0.00	0.00
ATOM	6425	HG3	GLU	X	427	49.172	30.329	25.208	0.00	0.00
ATOM	6426	CD	GLU	X	427	47.754	28.559	25.092	0.00	0.00
ATOM	6427	OE1	GLU	X	427	48.521	27.807	24.465	0.00	0.00
ATOM	6428	OE2	GLU	X	427	46.567	28.264	25.235	0.00	0.00
ATOM	6429	C	GLU	X	427	50.168	31.881	27.236	0.00	0.00
ATOM	6430	O	GLU	X	427	51.155	31.180	27.047	0.00	0.00
ATOM	6431	N	HIE	X	428	50.154	33.180	27.033	0.00	0.00
ATOM	6432	H	HIE	X	428	49.415	33.712	27.469	0.00	0.00
ATOM	6433	CA	HIE	X	428	51.407	33.811	26.839	0.00	0.00
ATOM	6434	HA	HIE	X	428	52.055	33.267	26.152	0.00	0.00
ATOM	6435	CB	HIE	X	428	51.283	35.141	26.204	0.00	0.00
ATOM	6436	HB2	HIE	X	428	50.731	35.097	25.266	0.00	0.00
ATOM	6437	HB3	HIE	X	428	50.656	35.775	26.831	0.00	0.00
ATOM	6438	CG	HIE	X	428	52.549	35.839	25.852	0.00	0.00
ATOM	6439	ND1	HIE	X	428	53.544	35.306	25.020	0.00	0.00
ATOM	6440	CE1	HIE	X	428	54.346	36.361	24.777	0.00	0.00
ATOM	6441	HE1	HIE	X	428	55.204	36.356	24.121	0.00	0.00
ATOM	6442	NE2	HIE	X	428	54.022	37.418	25.446	0.00	0.00

ATOM	6443	HE2	HIE	X	428	54.597	38.248	25.419	0.00	0.00
ATOM	6444	CD2	HIE	X	428	52.884	37.143	26.153	0.00	0.00
ATOM	6445	HD2	HIE	X	428	52.364	37.901	26.720	0.00	0.00
ATOM	6446	C	HIE	X	428	52.194	34.011	28.171	0.00	0.00
ATOM	6447	O	HIE	X	428	51.826	34.790	29.046	0.00	0.00
ATOM	6448	N	ARG	X	429	53.326	33.416	28.356	0.00	0.00
ATOM	6449	H	ARG	X	429	53.585	32.809	27.591	0.00	0.00
ATOM	6450	CA	ARG	X	429	54.423	33.932	29.189	0.00	0.00
ATOM	6451	HA	ARG	X	429	54.022	34.126	30.184	0.00	0.00
ATOM	6452	CB	ARG	X	429	55.501	32.849	29.329	0.00	0.00
ATOM	6453	HB2	ARG	X	429	55.252	32.013	29.982	0.00	0.00
ATOM	6454	HB3	ARG	X	429	55.545	32.449	28.316	0.00	0.00
ATOM	6455	CG	ARG	X	429	56.853	33.252	29.907	0.00	0.00
ATOM	6456	HG2	ARG	X	429	57.314	34.005	29.267	0.00	0.00
ATOM	6457	HG3	ARG	X	429	56.605	33.715	30.862	0.00	0.00
ATOM	6458	CD	ARG	X	429	57.814	32.061	30.138	0.00	0.00
ATOM	6459	HD2	ARG	X	429	57.698	31.268	29.399	0.00	0.00
ATOM	6460	HD3	ARG	X	429	58.870	32.330	30.142	0.00	0.00
ATOM	6461	NE	ARG	X	429	57.612	31.481	31.449	0.00	0.00
ATOM	6462	HE	ARG	X	429	56.715	31.057	31.641	0.00	0.00
ATOM	6463	CZ	ARG	X	429	58.288	31.916	32.495	0.00	0.00
ATOM	6464	NH1	ARG	X	429	59.395	32.652	32.418	0.00	0.00
ATOM	6465	HH11	ARG	X	429	59.858	32.850	31.543	0.00	0.00
ATOM	6466	HH12	ARG	X	429	59.912	32.721	33.283	0.00	0.00
ATOM	6467	NH2	ARG	X	429	57.915	31.501	33.645	0.00	0.00
ATOM	6468	HH21	ARG	X	429	56.992	31.099	33.724	0.00	0.00
ATOM	6469	HH22	ARG	X	429	58.477	31.649	34.471	0.00	0.00
ATOM	6470	C	ARG	X	429	54.931	35.234	28.536	0.00	0.00
ATOM	6471	O	ARG	X	429	55.432	35.156	27.410	0.00	0.00
ATOM	6472	N	ALA	X	430	54.914	36.327	29.240	0.00	0.00
ATOM	6473	H	ALA	X	430	54.389	36.394	30.100	0.00	0.00
ATOM	6474	CA	ALA	X	430	55.513	37.593	28.703	0.00	0.00
ATOM	6475	HA	ALA	X	430	55.383	37.629	27.622	0.00	0.00
ATOM	6476	CB	ALA	X	430	54.828	38.812	29.309	0.00	0.00
ATOM	6477	HB1	ALA	X	430	53.757	38.779	29.108	0.00	0.00
ATOM	6478	HB2	ALA	X	430	55.121	39.042	30.333	0.00	0.00
ATOM	6479	HB3	ALA	X	430	55.225	39.656	28.746	0.00	0.00
ATOM	6480	C	ALA	X	430	57.055	37.572	28.968	0.00	0.00
ATOM	6481	O	ALA	X	430	57.629	36.867	29.832	0.00	0.00
ATOM	6482	N	SER	X	431	57.718	38.386	28.200	0.00	0.00
ATOM	6483	H	SER	X	431	57.150	38.888	27.534	0.00	0.00
ATOM	6484	CA	SER	X	431	59.193	38.446	28.180	0.00	0.00
ATOM	6485	HA	SER	X	431	59.697	37.520	27.906	0.00	0.00
ATOM	6486	CB	SER	X	431	59.478	39.444	26.987	0.00	0.00
ATOM	6487	HB2	SER	X	431	60.560	39.411	26.859	0.00	0.00
ATOM	6488	HB3	SER	X	431	59.083	39.055	26.048	0.00	0.00
ATOM	6489	OG	SER	X	431	59.047	40.740	27.259	0.00	0.00
ATOM	6490	HG	SER	X	431	58.232	40.776	26.753	0.00	0.00
ATOM	6491	C	SER	X	431	59.867	39.048	29.453	0.00	0.00
ATOM	6492	O	SER	X	431	61.051	39.006	29.588	0.00	0.00
ATOM	6493	N	THR	X	432	59.028	39.646	30.339	0.00	0.00
ATOM	6494	H	THR	X	432	58.070	39.701	30.025	0.00	0.00
ATOM	6495	CA	THR	X	432	59.421	40.259	31.633	0.00	0.00
ATOM	6496	HA	THR	X	432	60.452	40.614	31.642	0.00	0.00
ATOM	6497	CB	THR	X	432	58.514	41.535	31.801	0.00	0.00
ATOM	6498	HB	THR	X	432	58.670	41.976	32.785	0.00	0.00
ATOM	6499	CG2	THR	X	432	58.998	42.514	30.818	0.00	0.00
ATOM	6500	HG21	THR	X	432	60.043	42.756	31.014	0.00	0.00
ATOM	6501	HG22	THR	X	432	58.985	42.084	29.817	0.00	0.00
ATOM	6502	HG23	THR	X	432	58.440	43.450	30.856	0.00	0.00
ATOM	6503	OG1	THR	X	432	57.109	41.174	31.607	0.00	0.00
ATOM	6504	HG1	THR	X	432	56.524	41.694	32.163	0.00	0.00
ATOM	6505	C	THR	X	432	59.043	39.455	32.902	0.00	0.00
ATOM	6506	O	THR	X	432	59.435	39.971	33.995	0.00	0.00
ATOM	6507	N	LEU	X	433	58.411	38.264	32.733	0.00	0.00
ATOM	6508	H	LEU	X	433	58.201	37.849	31.837	0.00	0.00
ATOM	6509	CA	LEU	X	433	57.790	37.529	33.746	0.00	0.00
ATOM	6510	HA	LEU	X	433	57.246	38.280	34.320	0.00	0.00
ATOM	6511	CB	LEU	X	433	56.820	36.375	33.168	0.00	0.00
ATOM	6512	HB2	LEU	X	433	56.062	36.888	32.577	0.00	0.00

ATOM	6513	HB3	LEU	X	433	57.359	35.742	32.462	0.00	0.00
ATOM	6514	CG	LEU	X	433	56.115	35.441	34.243	0.00	0.00
ATOM	6515	HG	LEU	X	433	56.840	35.041	34.952	0.00	0.00
ATOM	6516	CD1	LEU	X	433	55.147	36.287	35.128	0.00	0.00
ATOM	6517	HD11	LEU	X	433	54.286	36.548	34.514	0.00	0.00
ATOM	6518	HD12	LEU	X	433	54.679	35.673	35.898	0.00	0.00
ATOM	6519	HD13	LEU	X	433	55.545	37.242	35.471	0.00	0.00
ATOM	6520	CD2	LEU	X	433	55.396	34.244	33.572	0.00	0.00
ATOM	6521	HD21	LEU	X	433	56.118	33.837	32.864	0.00	0.00
ATOM	6522	HD22	LEU	X	433	55.269	33.528	34.384	0.00	0.00
ATOM	6523	HD23	LEU	X	433	54.528	34.621	33.032	0.00	0.00
ATOM	6524	C	LEU	X	433	58.825	36.980	34.730	0.00	0.00
ATOM	6525	O	LEU	X	433	59.653	36.098	34.434	0.00	0.00
ATOM	6526	N	SER	X	434	58.816	37.493	35.931	0.00	0.00
ATOM	6527	H	SER	X	434	58.101	38.194	36.062	0.00	0.00
ATOM	6528	CA	SER	X	434	59.733	37.310	37.115	0.00	0.00
ATOM	6529	HA	SER	X	434	60.754	37.366	36.740	0.00	0.00
ATOM	6530	CB	SER	X	434	59.678	38.456	38.142	0.00	0.00
ATOM	6531	HB2	SER	X	434	60.306	38.339	39.024	0.00	0.00
ATOM	6532	HB3	SER	X	434	59.938	39.355	37.584	0.00	0.00
ATOM	6533	OG	SER	X	434	58.300	38.598	38.654	0.00	0.00
ATOM	6534	HG	SER	X	434	57.785	39.136	38.048	0.00	0.00
ATOM	6535	C	SER	X	434	59.694	35.972	37.788	0.00	0.00
ATOM	6536	O	SER	X	434	60.519	35.693	38.675	0.00	0.00
ATOM	6537	N	TRP	X	435	58.680	35.185	37.483	0.00	0.00
ATOM	6538	H	TRP	X	435	58.184	35.432	36.639	0.00	0.00
ATOM	6539	CA	TRP	X	435	58.531	33.832	37.966	0.00	0.00
ATOM	6540	HA	TRP	X	435	58.785	33.908	39.023	0.00	0.00
ATOM	6541	CB	TRP	X	435	57.046	33.540	38.002	0.00	0.00
ATOM	6542	HB2	TRP	X	435	56.613	33.699	37.015	0.00	0.00
ATOM	6543	HB3	TRP	X	435	56.879	32.485	38.221	0.00	0.00
ATOM	6544	CG	TRP	X	435	56.235	34.288	39.024	0.00	0.00
ATOM	6545	CD1	TRP	X	435	55.421	35.338	38.799	0.00	0.00
ATOM	6546	HD1	TRP	X	435	55.395	35.876	37.863	0.00	0.00
ATOM	6547	NE1	TRP	X	435	54.989	35.858	40.043	0.00	0.00
ATOM	6548	HE1	TRP	X	435	54.420	36.693	40.075	0.00	0.00
ATOM	6549	CE2	TRP	X	435	55.338	34.978	41.069	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	54.954	34.872	42.376	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	54.258	35.577	42.808	0.00	0.00
ATOM	6552	CH2	TRP	X	435	55.449	33.806	43.163	0.00	0.00
ATOM	6553	HH2	TRP	X	435	55.001	33.630	44.129	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	56.490	33.004	42.683	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	56.918	32.215	43.284	0.00	0.00
ATOM	6556	CE3	TRP	X	435	56.853	33.155	41.353	0.00	0.00
ATOM	6557	HE3	TRP	X	435	57.538	32.451	40.903	0.00	0.00
ATOM	6558	CD2	TRP	X	435	56.195	34.020	40.475	0.00	0.00
ATOM	6559	C	TRP	X	435	59.339	32.765	37.166	0.00	0.00
ATOM	6560	O	TRP	X	435	59.406	32.812	35.919	0.00	0.00
ATOM	6561	N	PRO	X	436	60.013	31.795	37.757	0.00	0.00
ATOM	6562	CD	PRO	X	436	59.930	31.562	39.180	0.00	0.00
ATOM	6563	HD2	PRO	X	436	58.966	31.495	39.684	0.00	0.00
ATOM	6564	HD3	PRO	X	436	60.639	32.173	39.738	0.00	0.00
ATOM	6565	CG	PRO	X	436	60.378	30.104	39.242	0.00	0.00
ATOM	6566	HG2	PRO	X	436	59.491	29.486	39.100	0.00	0.00
ATOM	6567	HG3	PRO	X	436	60.788	29.987	40.245	0.00	0.00
ATOM	6568	CB	PRO	X	436	61.476	29.926	38.143	0.00	0.00
ATOM	6569	HB2	PRO	X	436	61.620	28.922	37.741	0.00	0.00
ATOM	6570	HB3	PRO	X	436	62.430	30.354	38.450	0.00	0.00
ATOM	6571	CA	PRO	X	436	60.891	30.832	37.052	0.00	0.00
ATOM	6572	HA	PRO	X	436	61.781	31.273	36.604	0.00	0.00
ATOM	6573	C	PRO	X	436	60.097	30.106	35.972	0.00	0.00
ATOM	6574	O	PRO	X	436	58.889	29.926	36.106	0.00	0.00
ATOM	6575	N	LEU	X	437	60.748	29.704	34.926	0.00	0.00
ATOM	6576	H	LEU	X	437	61.752	29.769	35.021	0.00	0.00
ATOM	6577	CA	LEU	X	437	60.346	29.086	33.662	0.00	0.00
ATOM	6578	HA	LEU	X	437	59.706	29.787	33.127	0.00	0.00
ATOM	6579	CB	LEU	X	437	61.600	28.900	32.723	0.00	0.00
ATOM	6580	HB2	LEU	X	437	62.059	29.885	32.635	0.00	0.00
ATOM	6581	HB3	LEU	X	437	62.302	28.148	33.083	0.00	0.00
ATOM	6582	CG	LEU	X	437	61.165	28.294	31.297	0.00	0.00

ATOM	6583	HG	LEU	X	437	60.594	27.371	31.403	0.00	0.00
ATOM	6584	CD1	LEU	X	437	60.371	29.333	30.636	0.00	0.00
ATOM	6585	HD11	LEU	X	437	60.415	29.218	29.553	0.00	0.00
ATOM	6586	HD12	LEU	X	437	59.365	29.217	31.038	0.00	0.00
ATOM	6587	HD13	LEU	X	437	60.675	30.368	30.794	0.00	0.00
ATOM	6588	CD2	LEU	X	437	62.451	27.975	30.466	0.00	0.00
ATOM	6589	HD21	LEU	X	437	62.992	27.156	30.940	0.00	0.00
ATOM	6590	HD22	LEU	X	437	62.179	27.749	29.435	0.00	0.00
ATOM	6591	HD23	LEU	X	437	63.064	28.871	30.560	0.00	0.00
ATOM	6592	C	LEU	X	437	59.526	27.829	33.923	0.00	0.00
ATOM	6593	O	LEU	X	437	58.661	27.481	33.044	0.00	0.00
ATOM	6594	N	TRP	X	438	59.657	27.045	35.005	0.00	0.00
ATOM	6595	H	TRP	X	438	60.467	27.217	35.584	0.00	0.00
ATOM	6596	CA	TRP	X	438	58.926	25.764	35.164	0.00	0.00
ATOM	6597	HA	TRP	X	438	58.910	25.284	34.186	0.00	0.00
ATOM	6598	CB	TRP	X	438	59.608	24.776	36.147	0.00	0.00
ATOM	6599	HB2	TRP	X	438	59.128	23.799	36.083	0.00	0.00
ATOM	6600	HB3	TRP	X	438	60.625	24.696	35.762	0.00	0.00
ATOM	6601	CG	TRP	X	438	59.508	25.160	37.561	0.00	0.00
ATOM	6602	CD1	TRP	X	438	60.354	25.968	38.237	0.00	0.00
ATOM	6603	HD1	TRP	X	438	61.267	26.414	37.872	0.00	0.00
ATOM	6604	NE1	TRP	X	438	59.912	26.136	39.502	0.00	0.00
ATOM	6605	HE1	TRP	X	438	60.363	26.615	40.268	0.00	0.00
ATOM	6606	CE2	TRP	X	438	58.718	25.471	39.722	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	57.857	25.460	40.824	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	57.991	26.008	41.744	0.00	0.00
ATOM	6609	CH2	TRP	X	438	56.567	24.881	40.709	0.00	0.00
ATOM	6610	HH2	TRP	X	438	55.848	24.918	41.514	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	56.113	24.380	39.471	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	55.113	23.975	39.420	0.00	0.00
ATOM	6613	CE3	TRP	X	438	57.036	24.421	38.357	0.00	0.00
ATOM	6614	HE3	TRP	X	438	56.685	24.073	37.397	0.00	0.00
ATOM	6615	CD2	TRP	X	438	58.344	24.926	38.438	0.00	0.00
ATOM	6616	C	TRP	X	438	57.446	26.043	35.397	0.00	0.00
ATOM	6617	O	TRP	X	438	56.671	25.348	34.794	0.00	0.00
ATOM	6618	N	MET	X	439	57.126	27.122	36.126	0.00	0.00
ATOM	6619	H	MET	X	439	57.931	27.595	36.511	0.00	0.00
ATOM	6620	CA	MET	X	439	55.836	27.539	36.572	0.00	0.00
ATOM	6621	HA	MET	X	439	55.389	26.671	37.055	0.00	0.00
ATOM	6622	CB	MET	X	439	56.081	28.767	37.508	0.00	0.00
ATOM	6623	HB2	MET	X	439	56.781	29.465	37.050	0.00	0.00
ATOM	6624	HB3	MET	X	439	55.160	29.344	37.593	0.00	0.00
ATOM	6625	CG	MET	X	439	56.510	28.436	38.919	0.00	0.00
ATOM	6626	HG2	MET	X	439	55.932	27.583	39.274	0.00	0.00
ATOM	6627	HG3	MET	X	439	57.526	28.051	38.838	0.00	0.00
ATOM	6628	SD	MET	X	439	56.745	29.814	40.059	0.00	0.00
ATOM	6629	CE	MET	X	439	55.073	30.505	40.152	0.00	0.00
ATOM	6630	HE1	MET	X	439	55.180	31.441	40.700	0.00	0.00
ATOM	6631	HE2	MET	X	439	54.714	30.685	39.138	0.00	0.00
ATOM	6632	HE3	MET	X	439	54.396	29.812	40.651	0.00	0.00
ATOM	6633	C	MET	X	439	54.871	27.949	35.346	0.00	0.00
ATOM	6634	O	MET	X	439	53.695	28.212	35.634	0.00	0.00
ATOM	6635	N	GLY	X	440	55.373	28.059	34.120	0.00	0.00
ATOM	6636	H	GLY	X	440	56.367	27.906	34.026	0.00	0.00
ATOM	6637	CA	GLY	X	440	54.524	28.245	32.958	0.00	0.00
ATOM	6638	HA2	GLY	X	440	55.041	28.139	32.019	0.00	0.00
ATOM	6639	HA3	GLY	X	440	53.606	27.624	32.992	0.00	0.00
ATOM	6640	C	GLY	X	440	53.984	29.723	33.127	0.00	0.00
ATOM	6641	O	GLY	X	440	54.781	30.665	32.957	0.00	0.00
ATOM	6642	N	VAL	X	441	52.685	29.837	33.388	0.00	0.00
ATOM	6643	H	VAL	X	441	52.133	28.998	33.495	0.00	0.00
ATOM	6644	CA	VAL	X	441	51.965	31.171	33.352	0.00	0.00
ATOM	6645	HA	VAL	X	441	52.679	31.983	33.218	0.00	0.00
ATOM	6646	CB	VAL	X	441	51.071	31.279	32.050	0.00	0.00
ATOM	6647	HB	VAL	X	441	50.157	30.688	32.111	0.00	0.00
ATOM	6648	CG1	VAL	X	441	50.605	32.778	31.898	0.00	0.00
ATOM	6649	HG11	VAL	X	441	49.957	33.029	32.739	0.00	0.00
ATOM	6650	HG12	VAL	X	441	51.538	33.341	31.926	0.00	0.00
ATOM	6651	HG13	VAL	X	441	49.962	32.842	31.021	0.00	0.00
ATOM	6652	CG2	VAL	X	441	51.739	30.822	30.728	0.00	0.00

ATOM	6653	HG21	VAL	X	441	51.885	29.744	30.788	0.00	0.00
ATOM	6654	HG22	VAL	X	441	51.220	31.062	29.800	0.00	0.00
ATOM	6655	HG23	VAL	X	441	52.721	31.295	30.725	0.00	0.00
ATOM	6656	C	VAL	X	441	51.088	31.263	34.580	0.00	0.00
ATOM	6657	O	VAL	X	441	50.071	30.585	34.623	0.00	0.00
ATOM	6658	N	PRO	X	442	51.494	32.050	35.660	0.00	0.00
ATOM	6659	CD	PRO	X	442	52.561	33.013	35.477	0.00	0.00
ATOM	6660	HD2	PRO	X	442	52.269	33.908	34.926	0.00	0.00
ATOM	6661	HD3	PRO	X	442	53.351	32.479	34.949	0.00	0.00
ATOM	6662	CG	PRO	X	442	52.990	33.402	36.965	0.00	0.00
ATOM	6663	HG2	PRO	X	442	52.613	34.368	37.302	0.00	0.00
ATOM	6664	HG3	PRO	X	442	54.049	33.337	37.215	0.00	0.00
ATOM	6665	CB	PRO	X	442	52.227	32.441	37.791	0.00	0.00
ATOM	6666	HB2	PRO	X	442	52.027	32.832	38.789	0.00	0.00
ATOM	6667	HB3	PRO	X	442	52.972	31.649	37.876	0.00	0.00
ATOM	6668	CA	PRO	X	442	51.009	31.951	36.992	0.00	0.00
ATOM	6669	HA	PRO	X	442	50.716	30.937	37.264	0.00	0.00
ATOM	6670	C	PRO	X	442	49.786	32.871	37.209	0.00	0.00
ATOM	6671	O	PRO	X	442	49.725	33.912	36.511	0.00	0.00
ATOM	6672	N	HIP	X	443	48.852	32.467	38.064	0.00	0.00
ATOM	6673	H	HIP	X	443	48.982	31.505	38.347	0.00	0.00
ATOM	6674	CA	HIP	X	443	47.540	33.059	38.388	0.00	0.00
ATOM	6675	HA	HIP	X	443	46.743	32.543	37.852	0.00	0.00
ATOM	6676	CB	HIP	X	443	47.410	32.671	39.835	0.00	0.00
ATOM	6677	HB2	HIP	X	443	47.360	31.584	39.771	0.00	0.00
ATOM	6678	HB3	HIP	X	443	48.368	32.879	40.311	0.00	0.00
ATOM	6679	CG	HIP	X	443	46.380	33.252	40.705	0.00	0.00
ATOM	6680	ND1	HIP	X	443	45.013	33.020	40.678	0.00	0.00
ATOM	6681	HD1	HIP	X	443	44.600	32.417	39.980	0.00	0.00
ATOM	6682	CE1	HIP	X	443	44.471	33.779	41.616	0.00	0.00
ATOM	6683	HE1	HIP	X	443	43.411	33.888	41.787	0.00	0.00
ATOM	6684	NE2	HIP	X	443	45.448	34.380	42.337	0.00	0.00
ATOM	6685	HE2	HIP	X	443	45.378	34.936	43.177	0.00	0.00
ATOM	6686	CD2	HIP	X	443	46.640	33.972	41.857	0.00	0.00
ATOM	6687	HD2	HIP	X	443	47.621	34.163	42.266	0.00	0.00
ATOM	6688	C	HIP	X	443	47.439	34.659	38.132	0.00	0.00
ATOM	6689	O	HIP	X	443	48.243	35.422	38.668	0.00	0.00
ATOM	6690	N	GLY	X	444	46.414	35.078	37.369	0.00	0.00
ATOM	6691	H	GLY	X	444	45.894	34.361	36.883	0.00	0.00
ATOM	6692	CA	GLY	X	444	45.980	36.470	37.100	0.00	0.00
ATOM	6693	HA2	GLY	X	444	45.194	36.391	36.382	0.00	0.00
ATOM	6694	HA3	GLY	X	444	45.431	36.877	37.963	0.00	0.00
ATOM	6695	C	GLY	X	444	47.052	37.406	36.576	0.00	0.00
ATOM	6696	O	GLY	X	444	47.038	38.601	36.933	0.00	0.00
ATOM	6697	N	TYR	X	445	48.013	36.936	35.840	0.00	0.00
ATOM	6698	H	TYR	X	445	47.925	36.003	35.464	0.00	0.00
ATOM	6699	CA	TYR	X	445	48.974	37.837	35.044	0.00	0.00
ATOM	6700	HA	TYR	X	445	49.211	38.653	35.727	0.00	0.00
ATOM	6701	CB	TYR	X	445	50.391	37.107	34.944	0.00	0.00
ATOM	6702	HB2	TYR	X	445	50.360	36.018	34.935	0.00	0.00
ATOM	6703	HB3	TYR	X	445	50.929	37.444	34.058	0.00	0.00
ATOM	6704	CG	TYR	X	445	51.356	37.492	36.006	0.00	0.00
ATOM	6705	CD1	TYR	X	445	52.300	38.477	35.731	0.00	0.00
ATOM	6706	HD1	TYR	X	445	52.417	38.792	34.705	0.00	0.00
ATOM	6707	CE1	TYR	X	445	53.175	38.898	36.673	0.00	0.00
ATOM	6708	HE1	TYR	X	445	53.992	39.542	36.384	0.00	0.00
ATOM	6709	CZ	TYR	X	445	53.133	38.326	37.985	0.00	0.00
ATOM	6710	OH	TYR	X	445	53.907	38.741	39.005	0.00	0.00
ATOM	6711	HH	TYR	X	445	54.445	39.487	38.729	0.00	0.00
ATOM	6712	CE2	TYR	X	445	52.139	37.282	38.270	0.00	0.00
ATOM	6713	HE2	TYR	X	445	52.179	36.751	39.209	0.00	0.00
ATOM	6714	CD2	TYR	X	445	51.367	36.777	37.199	0.00	0.00
ATOM	6715	HD2	TYR	X	445	50.632	35.990	37.280	0.00	0.00
ATOM	6716	C	TYR	X	445	48.491	38.471	33.668	0.00	0.00
ATOM	6717	O	TYR	X	445	49.312	39.208	33.110	0.00	0.00
ATOM	6718	N	GLU	X	446	47.310	38.113	33.178	0.00	0.00
ATOM	6719	H	GLU	X	446	46.600	37.633	33.712	0.00	0.00
ATOM	6720	CA	GLU	X	446	46.821	38.709	31.941	0.00	0.00
ATOM	6721	HA	GLU	X	446	47.721	38.777	31.330	0.00	0.00
ATOM	6722	CB	GLU	X	446	45.855	37.712	31.256	0.00	0.00

ATOM	6723	HB2	GLU	X	446	45.792	37.722	30.168	0.00	0.00
ATOM	6724	HB3	GLU	X	446	46.281	36.723	31.422	0.00	0.00
ATOM	6725	CG	GLU	X	446	44.346	37.831	31.714	0.00	0.00
ATOM	6726	HG2	GLU	X	446	44.032	38.846	31.469	0.00	0.00
ATOM	6727	HG3	GLU	X	446	43.822	37.080	31.122	0.00	0.00
ATOM	6728	CD	GLU	X	446	44.001	37.628	33.194	0.00	0.00
ATOM	6729	OE1	GLU	X	446	44.898	37.670	34.009	0.00	0.00
ATOM	6730	OE2	GLU	X	446	42.799	37.292	33.444	0.00	0.00
ATOM	6731	C	GLU	X	446	46.291	40.151	32.105	0.00	0.00
ATOM	6732	O	GLU	X	446	46.381	40.883	31.147	0.00	0.00
ATOM	6733	N	ILE	X	447	46.063	40.548	33.380	0.00	0.00
ATOM	6734	H	ILE	X	447	45.770	39.829	34.025	0.00	0.00
ATOM	6735	CA	ILE	X	447	45.601	41.902	33.650	0.00	0.00
ATOM	6736	HA	ILE	X	447	44.736	42.027	32.999	0.00	0.00
ATOM	6737	CB	ILE	X	447	45.202	42.062	35.163	0.00	0.00
ATOM	6738	HB	ILE	X	447	44.545	42.931	35.206	0.00	0.00
ATOM	6739	CG2	ILE	X	447	44.383	40.772	35.551	0.00	0.00
ATOM	6740	HG21	ILE	X	447	43.914	40.857	36.531	0.00	0.00
ATOM	6741	HG22	ILE	X	447	43.651	40.563	34.771	0.00	0.00
ATOM	6742	HG23	ILE	X	447	45.103	39.984	35.774	0.00	0.00
ATOM	6743	CG1	ILE	X	447	46.428	42.305	36.123	0.00	0.00
ATOM	6744	HG12	ILE	X	447	46.838	41.296	36.155	0.00	0.00
ATOM	6745	HG13	ILE	X	447	47.169	42.948	35.647	0.00	0.00
ATOM	6746	CD1	ILE	X	447	46.098	42.741	37.512	0.00	0.00
ATOM	6747	HD11	ILE	X	447	45.653	43.736	37.523	0.00	0.00
ATOM	6748	HD12	ILE	X	447	45.427	41.994	37.935	0.00	0.00
ATOM	6749	HD13	ILE	X	447	46.910	42.833	38.234	0.00	0.00
ATOM	6750	C	ILE	X	447	46.590	42.940	33.157	0.00	0.00
ATOM	6751	O	ILE	X	447	46.116	43.968	32.627	0.00	0.00
ATOM	6752	N	GLU	X	448	47.917	42.632	33.146	0.00	0.00
ATOM	6753	H	GLU	X	448	48.255	41.706	33.367	0.00	0.00
ATOM	6754	CA	GLU	X	448	48.911	43.641	32.698	0.00	0.00
ATOM	6755	HA	GLU	X	448	48.855	44.465	33.409	0.00	0.00
ATOM	6756	CB	GLU	X	448	50.322	43.024	32.739	0.00	0.00
ATOM	6757	HB2	GLU	X	448	50.541	42.272	31.981	0.00	0.00
ATOM	6758	HB3	GLU	X	448	51.036	43.740	32.331	0.00	0.00
ATOM	6759	CG	GLU	X	448	50.840	42.542	34.092	0.00	0.00
ATOM	6760	HG2	GLU	X	448	50.889	43.441	34.705	0.00	0.00
ATOM	6761	HG3	GLU	X	448	50.290	41.759	34.615	0.00	0.00
ATOM	6762	CD	GLU	X	448	52.307	42.152	34.005	0.00	0.00
ATOM	6763	OE1	GLU	X	448	53.147	42.516	34.805	0.00	0.00
ATOM	6764	OE2	GLU	X	448	52.731	41.412	33.043	0.00	0.00
ATOM	6765	C	GLU	X	448	48.616	44.160	31.218	0.00	0.00
ATOM	6766	O	GLU	X	448	48.703	45.337	30.891	0.00	0.00
ATOM	6767	N	PHE	X	449	48.183	43.222	30.370	0.00	0.00
ATOM	6768	H	PHE	X	449	48.176	42.299	30.781	0.00	0.00
ATOM	6769	CA	PHE	X	449	47.809	43.429	28.989	0.00	0.00
ATOM	6770	HA	PHE	X	449	48.546	44.130	28.598	0.00	0.00
ATOM	6771	CB	PHE	X	449	47.866	42.121	28.274	0.00	0.00
ATOM	6772	HB2	PHE	X	449	47.329	41.496	28.988	0.00	0.00
ATOM	6773	HB3	PHE	X	449	47.265	42.112	27.365	0.00	0.00
ATOM	6774	CG	PHE	X	449	49.266	41.623	27.939	0.00	0.00
ATOM	6775	CD1	PHE	X	449	49.882	40.697	28.830	0.00	0.00
ATOM	6776	HD1	PHE	X	449	49.302	40.304	29.652	0.00	0.00
ATOM	6777	CE1	PHE	X	449	51.197	40.285	28.550	0.00	0.00
ATOM	6778	HE1	PHE	X	449	51.726	39.588	29.184	0.00	0.00
ATOM	6779	CZ	PHE	X	449	51.937	40.874	27.508	0.00	0.00
ATOM	6780	HZ	PHE	X	449	52.972	40.590	27.389	0.00	0.00
ATOM	6781	CE2	PHE	X	449	51.309	41.760	26.617	0.00	0.00
ATOM	6782	HE2	PHE	X	449	51.865	42.275	25.848	0.00	0.00
ATOM	6783	CD2	PHE	X	449	49.937	42.075	26.843	0.00	0.00
ATOM	6784	HD2	PHE	X	449	49.402	42.728	26.169	0.00	0.00
ATOM	6785	C	PHE	X	449	46.412	43.930	28.850	0.00	0.00
ATOM	6786	O	PHE	X	449	46.098	44.550	27.836	0.00	0.00
ATOM	6787	N	ILE	X	450	45.535	43.739	29.879	0.00	0.00
ATOM	6788	H	ILE	X	450	45.931	43.466	30.767	0.00	0.00
ATOM	6789	CA	ILE	X	450	44.186	44.342	29.909	0.00	0.00
ATOM	6790	HA	ILE	X	450	43.932	44.362	28.849	0.00	0.00
ATOM	6791	CB	ILE	X	450	43.095	43.503	30.603	0.00	0.00
ATOM	6792	HB	ILE	X	450	43.142	43.620	31.685	0.00	0.00

ATOM	6793	CG2	ILE	X	450	41.797	44.201	30.221	0.00	0.00
ATOM	6794	HG21	ILE	X	450	41.771	45.178	30.703	0.00	0.00
ATOM	6795	HG22	ILE	X	450	41.741	44.462	29.165	0.00	0.00
ATOM	6796	HG23	ILE	X	450	40.889	43.672	30.512	0.00	0.00
ATOM	6797	CG1	ILE	X	450	43.064	41.996	30.276	0.00	0.00
ATOM	6798	HG12	ILE	X	450	43.890	41.685	30.917	0.00	0.00
ATOM	6799	HG13	ILE	X	450	42.165	41.509	30.654	0.00	0.00
ATOM	6800	CD1	ILE	X	450	43.363	41.666	28.780	0.00	0.00
ATOM	6801	HD11	ILE	X	450	42.530	41.913	28.123	0.00	0.00
ATOM	6802	HD12	ILE	X	450	44.348	42.021	28.476	0.00	0.00
ATOM	6803	HD13	ILE	X	450	43.434	40.608	28.528	0.00	0.00
ATOM	6804	C	ILE	X	450	44.191	45.788	30.269	0.00	0.00
ATOM	6805	O	ILE	X	450	43.576	46.574	29.632	0.00	0.00
ATOM	6806	N	PHE	X	451	45.032	46.160	31.197	0.00	0.00
ATOM	6807	H	PHE	X	451	45.502	45.421	31.701	0.00	0.00
ATOM	6808	CA	PHE	X	451	45.352	47.501	31.645	0.00	0.00
ATOM	6809	HA	PHE	X	451	44.438	48.092	31.702	0.00	0.00
ATOM	6810	CB	PHE	X	451	45.902	47.352	33.091	0.00	0.00
ATOM	6811	HB2	PHE	X	451	46.481	46.432	33.167	0.00	0.00
ATOM	6812	HB3	PHE	X	451	46.491	48.240	33.320	0.00	0.00
ATOM	6813	CG	PHE	X	451	44.803	47.291	34.164	0.00	0.00
ATOM	6814	CD1	PHE	X	451	44.666	46.105	34.948	0.00	0.00
ATOM	6815	HD1	PHE	X	451	45.187	45.197	34.684	0.00	0.00
ATOM	6816	CE1	PHE	X	451	43.819	46.169	36.032	0.00	0.00
ATOM	6817	HE1	PHE	X	451	43.664	45.265	36.603	0.00	0.00
ATOM	6818	CZ	PHE	X	451	43.079	47.286	36.355	0.00	0.00
ATOM	6819	HZ	PHE	X	451	42.425	47.250	37.213	0.00	0.00
ATOM	6820	CE2	PHE	X	451	43.118	48.464	35.560	0.00	0.00
ATOM	6821	HE2	PHE	X	451	42.612	49.381	35.824	0.00	0.00
ATOM	6822	CD2	PHE	X	451	44.071	48.469	34.488	0.00	0.00
ATOM	6823	HD2	PHE	X	451	44.207	49.354	33.885	0.00	0.00
ATOM	6824	C	PHE	X	451	46.266	48.243	30.680	0.00	0.00
ATOM	6825	O	PHE	X	451	46.221	49.535	30.616	0.00	0.00
ATOM	6826	N	GLY	X	452	46.918	47.454	29.774	0.00	0.00
ATOM	6827	H	GLY	X	452	46.844	46.448	29.822	0.00	0.00
ATOM	6828	CA	GLY	X	452	47.906	48.047	28.880	0.00	0.00
ATOM	6829	HA2	GLY	X	452	48.227	47.250	28.125	0.00	0.00
ATOM	6830	HA3	GLY	X	452	47.351	48.864	28.450	0.00	0.00
ATOM	6831	C	GLY	X	452	49.173	48.659	29.600	0.00	0.00
ATOM	6832	O	GLY	X	452	49.686	49.732	29.255	0.00	0.00
ATOM	6833	N	ILE	X	453	49.642	48.037	30.712	0.00	0.00
ATOM	6834	H	ILE	X	453	49.173	47.163	30.904	0.00	0.00
ATOM	6835	CA	ILE	X	453	50.886	48.444	31.407	0.00	0.00
ATOM	6836	HA	ILE	X	453	50.781	49.528	31.432	0.00	0.00
ATOM	6837	CB	ILE	X	453	50.885	47.882	32.854	0.00	0.00
ATOM	6838	HB	ILE	X	453	49.833	47.638	33.006	0.00	0.00
ATOM	6839	CG2	ILE	X	453	51.642	46.563	33.060	0.00	0.00
ATOM	6840	HG21	ILE	X	453	50.989	45.750	32.742	0.00	0.00
ATOM	6841	HG22	ILE	X	453	52.562	46.603	32.476	0.00	0.00
ATOM	6842	HG23	ILE	X	453	51.933	46.409	34.099	0.00	0.00
ATOM	6843	CG1	ILE	X	453	51.086	48.902	33.992	0.00	0.00
ATOM	6844	HG12	ILE	X	453	50.482	49.789	33.797	0.00	0.00
ATOM	6845	HG13	ILE	X	453	50.688	48.472	34.912	0.00	0.00
ATOM	6846	CD1	ILE	X	453	52.562	49.291	34.140	0.00	0.00
ATOM	6847	HD11	ILE	X	453	53.177	48.479	34.527	0.00	0.00
ATOM	6848	HD12	ILE	X	453	52.969	49.606	33.179	0.00	0.00
ATOM	6849	HD13	ILE	X	453	52.580	50.146	34.816	0.00	0.00
ATOM	6850	C	ILE	X	453	52.176	48.219	30.441	0.00	0.00
ATOM	6851	O	ILE	X	453	53.219	48.877	30.684	0.00	0.00
ATOM	6852	N	PRO	X	454	52.203	47.473	29.309	0.00	0.00
ATOM	6853	CD	PRO	X	454	51.325	46.404	28.908	0.00	0.00
ATOM	6854	HD2	PRO	X	454	50.577	46.817	28.232	0.00	0.00
ATOM	6855	HD3	PRO	X	454	50.981	45.903	29.813	0.00	0.00
ATOM	6856	CG	PRO	X	454	52.185	45.449	28.176	0.00	0.00
ATOM	6857	HG2	PRO	X	454	51.476	44.809	27.651	0.00	0.00
ATOM	6858	HG3	PRO	X	454	52.787	44.920	28.915	0.00	0.00
ATOM	6859	CB	PRO	X	454	53.075	46.412	27.354	0.00	0.00
ATOM	6860	HB2	PRO	X	454	52.644	46.779	26.422	0.00	0.00
ATOM	6861	HB3	PRO	X	454	54.070	46.027	27.129	0.00	0.00
ATOM	6862	CA	PRO	X	454	53.291	47.553	28.375	0.00	0.00

ATOM	6863	HA	PRO	X	454	54.200	47.418	28.962	0.00	0.00
ATOM	6864	C	PRO	X	454	53.263	48.859	27.609	0.00	0.00
ATOM	6865	O	PRO	X	454	54.256	49.082	26.912	0.00	0.00
ATOM	6866	N	LEU	X	455	52.209	49.718	27.732	0.00	0.00
ATOM	6867	H	LEU	X	455	51.373	49.400	28.202	0.00	0.00
ATOM	6868	CA	LEU	X	455	52.336	51.163	27.153	0.00	0.00
ATOM	6869	HA	LEU	X	455	52.929	51.095	26.240	0.00	0.00
ATOM	6870	CB	LEU	X	455	50.937	51.700	26.813	0.00	0.00
ATOM	6871	HB2	LEU	X	455	50.374	51.806	27.740	0.00	0.00
ATOM	6872	HB3	LEU	X	455	51.112	52.718	26.465	0.00	0.00
ATOM	6873	CG	LEU	X	455	50.188	50.782	25.812	0.00	0.00
ATOM	6874	HG	LEU	X	455	49.984	49.788	26.208	0.00	0.00
ATOM	6875	CD1	LEU	X	455	48.762	51.412	25.507	0.00	0.00
ATOM	6876	HD11	LEU	X	455	48.190	51.340	26.432	0.00	0.00
ATOM	6877	HD12	LEU	X	455	48.780	52.467	25.231	0.00	0.00
ATOM	6878	HD13	LEU	X	455	48.307	50.873	24.677	0.00	0.00
ATOM	6879	CD2	LEU	X	455	50.830	50.716	24.438	0.00	0.00
ATOM	6880	HD21	LEU	X	455	51.048	51.710	24.046	0.00	0.00
ATOM	6881	HD22	LEU	X	455	51.797	50.220	24.515	0.00	0.00
ATOM	6882	HD23	LEU	X	455	50.200	50.143	23.757	0.00	0.00
ATOM	6883	C	LEU	X	455	53.265	52.020	28.020	0.00	0.00
ATOM	6884	O	LEU	X	455	53.500	53.163	27.592	0.00	0.00
ATOM	6885	N	ASP	X	456	53.903	51.621	29.144	0.00	0.00
ATOM	6886	H	ASP	X	456	53.720	50.735	29.592	0.00	0.00
ATOM	6887	CA	ASP	X	456	54.684	52.542	29.985	0.00	0.00
ATOM	6888	HA	ASP	X	456	54.228	53.515	30.170	0.00	0.00
ATOM	6889	CB	ASP	X	456	54.661	51.860	31.375	0.00	0.00
ATOM	6890	HB2	ASP	X	456	53.686	51.525	31.729	0.00	0.00
ATOM	6891	HB3	ASP	X	456	55.330	51.000	31.339	0.00	0.00
ATOM	6892	CG	ASP	X	456	55.243	52.841	32.366	0.00	0.00
ATOM	6893	OD1	ASP	X	456	56.504	52.979	32.496	0.00	0.00
ATOM	6894	OD2	ASP	X	456	54.355	53.519	32.969	0.00	0.00
ATOM	6895	C	ASP	X	456	56.079	52.746	29.390	0.00	0.00
ATOM	6896	O	ASP	X	456	56.736	51.838	28.868	0.00	0.00
ATOM	6897	N	PRO	X	457	56.678	53.987	29.430	0.00	0.00
ATOM	6898	CD	PRO	X	457	56.126	55.244	29.985	0.00	0.00
ATOM	6899	HD2	PRO	X	457	56.294	55.213	31.061	0.00	0.00
ATOM	6900	HD3	PRO	X	457	55.079	55.290	29.684	0.00	0.00
ATOM	6901	CG	PRO	X	457	56.945	56.435	29.434	0.00	0.00
ATOM	6902	HG2	PRO	X	457	56.926	57.372	29.990	0.00	0.00
ATOM	6903	HG3	PRO	X	457	56.496	56.530	28.446	0.00	0.00
ATOM	6904	CB	PRO	X	457	58.364	55.765	29.267	0.00	0.00
ATOM	6905	HB2	PRO	X	457	58.796	55.946	30.251	0.00	0.00
ATOM	6906	HB3	PRO	X	457	58.909	56.272	28.471	0.00	0.00
ATOM	6907	CA	PRO	X	457	58.068	54.276	29.030	0.00	0.00
ATOM	6908	HA	PRO	X	457	58.017	53.913	28.003	0.00	0.00
ATOM	6909	C	PRO	X	457	59.082	53.318	29.818	0.00	0.00
ATOM	6910	O	PRO	X	457	59.938	52.852	29.110	0.00	0.00
ATOM	6911	N	SER	X	458	58.932	53.211	31.162	0.00	0.00
ATOM	6912	H	SER	X	458	58.063	53.677	31.381	0.00	0.00
ATOM	6913	CA	SER	X	458	59.880	52.626	32.050	0.00	0.00
ATOM	6914	HA	SER	X	458	60.849	53.049	31.786	0.00	0.00
ATOM	6915	CB	SER	X	458	59.610	52.996	33.566	0.00	0.00
ATOM	6916	HB2	SER	X	458	60.394	52.524	34.157	0.00	0.00
ATOM	6917	HB3	SER	X	458	59.740	54.073	33.677	0.00	0.00
ATOM	6918	OG	SER	X	458	58.366	52.546	34.090	0.00	0.00
ATOM	6919	HG	SER	X	458	57.678	52.735	33.448	0.00	0.00
ATOM	6920	C	SER	X	458	59.825	51.147	31.965	0.00	0.00
ATOM	6921	O	SER	X	458	60.835	50.417	32.214	0.00	0.00
ATOM	6922	N	ARG	X	459	58.642	50.489	31.732	0.00	0.00
ATOM	6923	H	ARG	X	459	57.833	51.072	31.573	0.00	0.00
ATOM	6924	CA	ARG	X	459	58.512	49.018	31.569	0.00	0.00
ATOM	6925	HA	ARG	X	459	59.036	48.565	32.411	0.00	0.00
ATOM	6926	CB	ARG	X	459	57.007	48.717	31.772	0.00	0.00
ATOM	6927	HB2	ARG	X	459	56.568	49.022	30.823	0.00	0.00
ATOM	6928	HB3	ARG	X	459	56.833	47.641	31.754	0.00	0.00
ATOM	6929	CG	ARG	X	459	56.249	49.091	32.967	0.00	0.00
ATOM	6930	HG2	ARG	X	459	56.279	50.170	33.116	0.00	0.00
ATOM	6931	HG3	ARG	X	459	55.261	48.679	32.765	0.00	0.00
ATOM	6932	CD	ARG	X	459	56.866	48.581	34.187	0.00	0.00

ATOM	6933	HD2	ARG	X	459	57.167	47.541	34.060	0.00	0.00
ATOM	6934	HD3	ARG	X	459	57.737	49.176	34.459	0.00	0.00
ATOM	6935	NE	ARG	X	459	55.923	48.726	35.273	0.00	0.00
ATOM	6936	HE	ARG	X	459	55.472	49.609	35.464	0.00	0.00
ATOM	6937	CZ	ARG	X	459	55.715	47.833	36.258	0.00	0.00
ATOM	6938	NH1	ARG	X	459	56.509	46.830	36.430	0.00	0.00
ATOM	6939	HH11	ARG	X	459	57.319	46.747	35.832	0.00	0.00
ATOM	6940	HH12	ARG	X	459	56.399	46.212	37.221	0.00	0.00
ATOM	6941	NH2	ARG	X	459	54.746	47.948	37.112	0.00	0.00
ATOM	6942	HH21	ARG	X	459	54.201	48.798	37.102	0.00	0.00
ATOM	6943	HH22	ARG	X	459	54.570	47.098	37.627	0.00	0.00
ATOM	6944	C	ARG	X	459	59.149	48.445	30.317	0.00	0.00
ATOM	6945	O	ARG	X	459	59.555	49.233	29.455	0.00	0.00
ATOM	6946	N	ASN	X	460	59.377	47.115	30.359	0.00	0.00
ATOM	6947	H	ASN	X	460	58.931	46.630	31.124	0.00	0.00
ATOM	6948	CA	ASN	X	460	60.413	46.403	29.649	0.00	0.00
ATOM	6949	HA	ASN	X	460	60.913	47.180	29.070	0.00	0.00
ATOM	6950	CB	ASN	X	460	61.455	45.805	30.635	0.00	0.00
ATOM	6951	HB2	ASN	X	460	61.685	46.433	31.496	0.00	0.00
ATOM	6952	HB3	ASN	X	460	60.994	44.954	31.136	0.00	0.00
ATOM	6953	CG	ASN	X	460	62.791	45.442	29.913	0.00	0.00
ATOM	6954	OD1	ASN	X	460	63.158	44.232	29.764	0.00	0.00
ATOM	6955	ND2	ASN	X	460	63.609	46.389	29.427	0.00	0.00
ATOM	6956	HD21	ASN	X	460	64.357	46.122	28.803	0.00	0.00
ATOM	6957	HD22	ASN	X	460	63.290	47.344	29.506	0.00	0.00
ATOM	6958	C	ASN	X	460	59.837	45.329	28.716	0.00	0.00
ATOM	6959	O	ASN	X	460	60.334	44.229	28.826	0.00	0.00
ATOM	6960	N	TYR	X	461	58.805	45.584	27.953	0.00	0.00
ATOM	6961	H	TYR	X	461	58.307	46.462	27.913	0.00	0.00
ATOM	6962	CA	TYR	X	461	58.206	44.521	27.087	0.00	0.00
ATOM	6963	HA	TYR	X	461	58.540	43.567	27.494	0.00	0.00
ATOM	6964	CB	TYR	X	461	56.707	44.588	27.056	0.00	0.00
ATOM	6965	HB2	TYR	X	461	56.417	45.516	26.564	0.00	0.00
ATOM	6966	HB3	TYR	X	461	56.342	43.791	26.407	0.00	0.00
ATOM	6967	CG	TYR	X	461	55.933	44.362	28.355	0.00	0.00
ATOM	6968	CD1	TYR	X	461	55.953	45.297	29.422	0.00	0.00
ATOM	6969	HD1	TYR	X	461	56.530	46.210	29.390	0.00	0.00
ATOM	6970	CE1	TYR	X	461	55.256	44.947	30.612	0.00	0.00
ATOM	6971	HE1	TYR	X	461	55.273	45.607	31.466	0.00	0.00
ATOM	6972	CZ	TYR	X	461	54.686	43.701	30.816	0.00	0.00
ATOM	6973	OH	TYR	X	461	54.071	43.465	31.984	0.00	0.00
ATOM	6974	HH	TYR	X	461	53.585	42.637	31.976	0.00	0.00
ATOM	6975	CE2	TYR	X	461	54.756	42.733	29.805	0.00	0.00
ATOM	6976	HE2	TYR	X	461	54.292	41.781	30.018	0.00	0.00
ATOM	6977	CD2	TYR	X	461	55.322	43.104	28.546	0.00	0.00
ATOM	6978	HD2	TYR	X	461	55.284	42.473	27.671	0.00	0.00
ATOM	6979	C	TYR	X	461	58.784	44.701	25.673	0.00	0.00
ATOM	6980	O	TYR	X	461	59.585	45.643	25.422	0.00	0.00
ATOM	6981	N	THR	X	462	58.398	43.799	24.749	0.00	0.00
ATOM	6982	H	THR	X	462	57.650	43.147	24.935	0.00	0.00
ATOM	6983	CA	THR	X	462	58.716	44.024	23.275	0.00	0.00
ATOM	6984	HA	THR	X	462	59.525	44.755	23.247	0.00	0.00
ATOM	6985	CB	THR	X	462	59.094	42.757	22.556	0.00	0.00
ATOM	6986	HB	THR	X	462	59.316	43.047	21.529	0.00	0.00
ATOM	6987	CG2	THR	X	462	60.351	41.988	23.105	0.00	0.00
ATOM	6988	HG21	THR	X	462	60.328	40.933	22.829	0.00	0.00
ATOM	6989	HG22	THR	X	462	61.246	42.351	22.601	0.00	0.00
ATOM	6990	HG23	THR	X	462	60.543	42.244	24.147	0.00	0.00
ATOM	6991	OG1	THR	X	462	57.988	41.908	22.528	0.00	0.00
ATOM	6992	HG1	THR	X	462	57.739	41.721	23.437	0.00	0.00
ATOM	6993	C	THR	X	462	57.578	44.676	22.510	0.00	0.00
ATOM	6994	O	THR	X	462	56.453	44.740	22.944	0.00	0.00
ATOM	6995	N	ALA	X	463	57.879	45.275	21.321	0.00	0.00
ATOM	6996	H	ALA	X	463	58.801	45.193	20.916	0.00	0.00
ATOM	6997	CA	ALA	X	463	56.860	46.044	20.608	0.00	0.00
ATOM	6998	HA	ALA	X	463	56.621	46.841	21.311	0.00	0.00
ATOM	6999	CB	ALA	X	463	57.630	46.605	19.450	0.00	0.00
ATOM	7000	HB1	ALA	X	463	58.241	45.818	19.007	0.00	0.00
ATOM	7001	HB2	ALA	X	463	56.940	47.033	18.723	0.00	0.00
ATOM	7002	HB3	ALA	X	463	58.257	47.408	19.838	0.00	0.00

ATOM	7003	C	ALA	X	463	55.634	45.215	20.138	0.00	0.00
ATOM	7004	O	ALA	X	463	54.480	45.722	20.181	0.00	0.00
ATOM	7005	N	GLU	X	464	55.879	43.948	19.740	0.00	0.00
ATOM	7006	H	GLU	X	464	56.803	43.541	19.772	0.00	0.00
ATOM	7007	CA	GLU	X	464	54.836	43.061	19.342	0.00	0.00
ATOM	7008	HA	GLU	X	464	54.297	43.589	18.555	0.00	0.00
ATOM	7009	CB	GLU	X	464	55.454	41.839	18.727	0.00	0.00
ATOM	7010	HB2	GLU	X	464	54.621	41.139	18.653	0.00	0.00
ATOM	7011	HB3	GLU	X	464	55.912	42.202	17.808	0.00	0.00
ATOM	7012	CG	GLU	X	464	56.415	41.078	19.705	0.00	0.00
ATOM	7013	HG2	GLU	X	464	57.233	41.696	20.077	0.00	0.00
ATOM	7014	HG3	GLU	X	464	55.865	40.668	20.552	0.00	0.00
ATOM	7015	CD	GLU	X	464	57.151	39.881	19.028	0.00	0.00
ATOM	7016	OE1	GLU	X	464	58.132	39.459	19.711	0.00	0.00
ATOM	7017	OE2	GLU	X	464	56.923	39.571	17.821	0.00	0.00
ATOM	7018	C	GLU	X	464	53.914	42.719	20.527	0.00	0.00
ATOM	7019	O	GLU	X	464	52.708	42.661	20.301	0.00	0.00
ATOM	7020	N	GLU	X	465	54.432	42.692	21.769	0.00	0.00
ATOM	7021	H	GLU	X	465	55.347	43.119	21.773	0.00	0.00
ATOM	7022	CA	GLU	X	465	53.634	42.519	23.015	0.00	0.00
ATOM	7023	HA	GLU	X	465	52.877	41.760	22.813	0.00	0.00
ATOM	7024	CB	GLU	X	465	54.572	42.129	24.157	0.00	0.00
ATOM	7025	HB2	GLU	X	465	55.229	42.997	24.213	0.00	0.00
ATOM	7026	HB3	GLU	X	465	54.018	42.136	25.095	0.00	0.00
ATOM	7027	CG	GLU	X	465	55.190	40.745	24.015	0.00	0.00
ATOM	7028	HG2	GLU	X	465	54.430	39.974	24.139	0.00	0.00
ATOM	7029	HG3	GLU	X	465	55.615	40.526	23.035	0.00	0.00
ATOM	7030	CD	GLU	X	465	56.279	40.455	25.065	0.00	0.00
ATOM	7031	OE1	GLU	X	465	57.279	41.239	25.101	0.00	0.00
ATOM	7032	OE2	GLU	X	465	56.237	39.479	25.889	0.00	0.00
ATOM	7033	C	GLU	X	465	52.688	43.771	23.267	0.00	0.00
ATOM	7034	O	GLU	X	465	51.620	43.683	23.890	0.00	0.00
ATOM	7035	N	LYS	X	466	53.114	44.981	22.813	0.00	0.00
ATOM	7036	H	LYS	X	466	54.029	44.970	22.385	0.00	0.00
ATOM	7037	CA	LYS	X	466	52.342	46.232	22.936	0.00	0.00
ATOM	7038	HA	LYS	X	466	51.934	46.201	23.947	0.00	0.00
ATOM	7039	CB	LYS	X	466	53.237	47.411	22.566	0.00	0.00
ATOM	7040	HB2	LYS	X	466	53.437	47.358	21.496	0.00	0.00
ATOM	7041	HB3	LYS	X	466	52.667	48.332	22.689	0.00	0.00
ATOM	7042	CG	LYS	X	466	54.534	47.540	23.399	0.00	0.00
ATOM	7043	HG2	LYS	X	466	54.190	47.584	24.432	0.00	0.00
ATOM	7044	HG3	LYS	X	466	55.093	46.625	23.201	0.00	0.00
ATOM	7045	CD	LYS	X	466	55.256	48.749	22.975	0.00	0.00
ATOM	7046	HD2	LYS	X	466	55.652	48.651	21.964	0.00	0.00
ATOM	7047	HD3	LYS	X	466	54.633	49.644	22.964	0.00	0.00
ATOM	7048	CE	LYS	X	466	56.424	49.037	23.925	0.00	0.00
ATOM	7049	HE2	LYS	X	466	56.195	48.795	24.963	0.00	0.00
ATOM	7050	HE3	LYS	X	466	57.221	48.315	23.747	0.00	0.00
ATOM	7051	NZ	LYS	X	466	57.018	50.364	23.665	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	56.845	50.699	22.728	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	56.765	51.055	24.357	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	58.006	50.160	23.720	0.00	0.00
ATOM	7055	C	LYS	X	466	51.134	46.361	21.965	0.00	0.00
ATOM	7056	O	LYS	X	466	50.039	46.771	22.421	0.00	0.00
ATOM	7057	N	ILE	X	467	51.255	45.702	20.756	0.00	0.00
ATOM	7058	H	ILE	X	467	52.161	45.367	20.461	0.00	0.00
ATOM	7059	CA	ILE	X	467	50.146	45.195	19.906	0.00	0.00
ATOM	7060	HA	ILE	X	467	49.489	46.034	19.681	0.00	0.00
ATOM	7061	CB	ILE	X	467	50.673	44.762	18.488	0.00	0.00
ATOM	7062	HB	ILE	X	467	51.271	43.855	18.577	0.00	0.00
ATOM	7063	CG2	ILE	X	467	49.403	44.307	17.692	0.00	0.00
ATOM	7064	HG21	ILE	X	467	49.680	43.978	16.690	0.00	0.00
ATOM	7065	HG22	ILE	X	467	48.827	43.514	18.168	0.00	0.00
ATOM	7066	HG23	ILE	X	467	48.756	45.168	17.531	0.00	0.00
ATOM	7067	CG1	ILE	X	467	51.524	45.837	17.794	0.00	0.00
ATOM	7068	HG12	ILE	X	467	50.921	46.743	17.754	0.00	0.00
ATOM	7069	HG13	ILE	X	467	52.379	46.118	18.410	0.00	0.00
ATOM	7070	CD1	ILE	X	467	52.171	45.574	16.414	0.00	0.00
ATOM	7071	HD11	ILE	X	467	52.635	44.590	16.350	0.00	0.00
ATOM	7072	HD12	ILE	X	467	51.353	45.759	15.718	0.00	0.00

ATOM	7073	HD13	ILE	X	467	52.934	46.329	16.224	0.00	0.00
ATOM	7074	C	ILE	X	467	49.192	44.202	20.548	0.00	0.00
ATOM	7075	O	ILE	X	467	47.970	44.381	20.541	0.00	0.00
ATOM	7076	N	PHE	X	468	49.751	43.248	21.360	0.00	0.00
ATOM	7077	H	PHE	X	468	50.758	43.258	21.438	0.00	0.00
ATOM	7078	CA	PHE	X	468	49.052	42.277	22.160	0.00	0.00
ATOM	7079	HA	PHE	X	468	48.294	41.898	21.475	0.00	0.00
ATOM	7080	CB	PHE	X	468	50.099	41.244	22.531	0.00	0.00
ATOM	7081	HB2	PHE	X	468	50.699	41.032	21.646	0.00	0.00
ATOM	7082	HB3	PHE	X	468	50.791	41.730	23.218	0.00	0.00
ATOM	7083	CG	PHE	X	468	49.579	39.956	23.206	0.00	0.00
ATOM	7084	CD1	PHE	X	468	48.432	39.324	22.781	0.00	0.00
ATOM	7085	HD1	PHE	X	468	47.836	39.739	21.982	0.00	0.00
ATOM	7086	CE1	PHE	X	468	47.843	38.341	23.560	0.00	0.00
ATOM	7087	HE1	PHE	X	468	46.886	37.957	23.238	0.00	0.00
ATOM	7088	CZ	PHE	X	468	48.508	37.908	24.711	0.00	0.00
ATOM	7089	HZ	PHE	X	468	48.006	37.059	25.150	0.00	0.00
ATOM	7090	CE2	PHE	X	468	49.782	38.434	25.164	0.00	0.00
ATOM	7091	HE2	PHE	X	468	50.261	38.147	26.089	0.00	0.00
ATOM	7092	CD2	PHE	X	468	50.258	39.436	24.343	0.00	0.00
ATOM	7093	HD2	PHE	X	468	51.241	39.840	24.538	0.00	0.00
ATOM	7094	C	PHE	X	468	48.222	42.851	23.327	0.00	0.00
ATOM	7095	O	PHE	X	468	47.092	42.384	23.644	0.00	0.00
ATOM	7096	N	ALA	X	469	48.645	43.979	23.825	0.00	0.00
ATOM	7097	H	ALA	X	469	49.549	44.310	23.519	0.00	0.00
ATOM	7098	CA	ALA	X	469	47.866	44.762	24.826	0.00	0.00
ATOM	7099	HA	ALA	X	469	47.398	44.145	25.593	0.00	0.00
ATOM	7100	CB	ALA	X	469	48.855	45.846	25.371	0.00	0.00
ATOM	7101	HB1	ALA	X	469	49.470	46.257	24.570	0.00	0.00
ATOM	7102	HB2	ALA	X	469	48.397	46.726	25.823	0.00	0.00
ATOM	7103	HB3	ALA	X	469	49.536	45.374	26.079	0.00	0.00
ATOM	7104	C	ALA	X	469	46.701	45.391	24.061	0.00	0.00
ATOM	7105	O	ALA	X	469	45.515	45.133	24.317	0.00	0.00
ATOM	7106	N	GLN	X	470	46.961	46.222	23.063	0.00	0.00
ATOM	7107	H	GLN	X	470	47.930	46.451	22.896	0.00	0.00
ATOM	7108	CA	GLN	X	470	46.038	47.017	22.202	0.00	0.00
ATOM	7109	HA	GLN	X	470	45.334	47.559	22.833	0.00	0.00
ATOM	7110	CB	GLN	X	470	46.878	47.908	21.199	0.00	0.00
ATOM	7111	HB2	GLN	X	470	47.680	47.279	20.815	0.00	0.00
ATOM	7112	HB3	GLN	X	470	46.174	48.332	20.482	0.00	0.00
ATOM	7113	CG	GLN	X	470	47.396	49.084	22.075	0.00	0.00
ATOM	7114	HG2	GLN	X	470	46.540	49.640	22.458	0.00	0.00
ATOM	7115	HG3	GLN	X	470	48.078	48.773	22.867	0.00	0.00
ATOM	7116	CD	GLN	X	470	48.089	50.145	21.235	0.00	0.00
ATOM	7117	OE1	GLN	X	470	49.290	50.496	21.312	0.00	0.00
ATOM	7118	NE2	GLN	X	470	47.332	50.870	20.420	0.00	0.00
ATOM	7119	HE21	GLN	X	470	47.714	51.621	19.863	0.00	0.00
ATOM	7120	HE22	GLN	X	470	46.389	50.589	20.195	0.00	0.00
ATOM	7121	C	GLN	X	470	45.030	46.111	21.430	0.00	0.00
ATOM	7122	O	GLN	X	470	43.996	46.572	20.931	0.00	0.00
ATOM	7123	N	ARG	X	471	45.274	44.810	21.408	0.00	0.00
ATOM	7124	H	ARG	X	471	46.211	44.494	21.615	0.00	0.00
ATOM	7125	CA	ARG	X	471	44.484	43.694	20.892	0.00	0.00
ATOM	7126	HA	ARG	X	471	43.719	44.047	20.200	0.00	0.00
ATOM	7127	CB	ARG	X	471	45.441	42.687	20.130	0.00	0.00
ATOM	7128	HB2	ARG	X	471	46.015	43.139	19.321	0.00	0.00
ATOM	7129	HB3	ARG	X	471	46.147	42.216	20.814	0.00	0.00
ATOM	7130	CG	ARG	X	471	44.602	41.524	19.434	0.00	0.00
ATOM	7131	HG2	ARG	X	471	44.002	40.958	20.147	0.00	0.00
ATOM	7132	HG3	ARG	X	471	43.888	41.978	18.748	0.00	0.00
ATOM	7133	CD	ARG	X	471	45.492	40.621	18.653	0.00	0.00
ATOM	7134	HD2	ARG	X	471	45.536	40.937	17.611	0.00	0.00
ATOM	7135	HD3	ARG	X	471	46.490	40.717	19.079	0.00	0.00
ATOM	7136	NE	ARG	X	471	44.936	39.302	18.737	0.00	0.00
ATOM	7137	HE	ARG	X	471	44.106	39.141	18.184	0.00	0.00
ATOM	7138	CZ	ARG	X	471	45.434	38.224	19.326	0.00	0.00
ATOM	7139	NH1	ARG	X	471	46.615	38.229	19.914	0.00	0.00
ATOM	7140	HH11	ARG	X	471	47.241	39.007	19.764	0.00	0.00
ATOM	7141	HH12	ARG	X	471	46.981	37.335	20.206	0.00	0.00
ATOM	7142	NH2	ARG	X	471	44.761	37.082	19.289	0.00	0.00

ATOM	7143	HH21	ARG	X	471	43.866	37.011	18.826	0.00	0.00
ATOM	7144	HH22	ARG	X	471	45.110	36.348	19.888	0.00	0.00
ATOM	7145	C	ARG	X	471	43.523	43.047	21.864	0.00	0.00
ATOM	7146	O	ARG	X	471	42.321	42.808	21.649	0.00	0.00
ATOM	7147	N	LEU	X	472	44.032	42.851	23.099	0.00	0.00
ATOM	7148	H	LEU	X	472	45.031	42.862	23.246	0.00	0.00
ATOM	7149	CA	LEU	X	472	43.133	42.348	24.265	0.00	0.00
ATOM	7150	HA	LEU	X	472	42.438	41.585	23.916	0.00	0.00
ATOM	7151	CB	LEU	X	472	44.123	41.582	25.200	0.00	0.00
ATOM	7152	HB2	LEU	X	472	44.915	42.206	25.613	0.00	0.00
ATOM	7153	HB3	LEU	X	472	43.525	41.374	26.087	0.00	0.00
ATOM	7154	CG	LEU	X	472	44.696	40.241	24.680	0.00	0.00
ATOM	7155	HG	LEU	X	472	45.512	40.432	23.983	0.00	0.00
ATOM	7156	CD1	LEU	X	472	45.361	39.507	25.896	0.00	0.00
ATOM	7157	HD11	LEU	X	472	46.219	40.052	26.289	0.00	0.00
ATOM	7158	HD12	LEU	X	472	44.593	39.462	26.668	0.00	0.00
ATOM	7159	HD13	LEU	X	472	45.747	38.540	25.573	0.00	0.00
ATOM	7160	CD2	LEU	X	472	43.673	39.285	24.015	0.00	0.00
ATOM	7161	HD21	LEU	X	472	43.387	39.497	22.985	0.00	0.00
ATOM	7162	HD22	LEU	X	472	44.193	38.335	23.894	0.00	0.00
ATOM	7163	HD23	LEU	X	472	42.858	39.091	24.713	0.00	0.00
ATOM	7164	C	LEU	X	472	42.380	43.374	25.052	0.00	0.00
ATOM	7165	O	LEU	X	472	41.249	43.157	25.407	0.00	0.00
ATOM	7166	N	MET	X	473	42.858	44.602	25.130	0.00	0.00
ATOM	7167	H	MET	X	473	43.829	44.719	24.876	0.00	0.00
ATOM	7168	CA	MET	X	473	42.179	45.786	25.648	0.00	0.00
ATOM	7169	HA	MET	X	473	41.869	45.713	26.691	0.00	0.00
ATOM	7170	CB	MET	X	473	43.053	47.072	25.429	0.00	0.00
ATOM	7171	HB2	MET	X	473	43.396	47.152	24.397	0.00	0.00
ATOM	7172	HB3	MET	X	473	42.562	48.031	25.600	0.00	0.00
ATOM	7173	CG	MET	X	473	44.266	47.061	26.398	0.00	0.00
ATOM	7174	HG2	MET	X	473	43.927	47.250	27.417	0.00	0.00
ATOM	7175	HG3	MET	X	473	44.692	46.057	26.406	0.00	0.00
ATOM	7176	SD	MET	X	473	45.593	48.149	25.963	0.00	0.00
ATOM	7177	CE	MET	X	473	44.970	49.538	26.973	0.00	0.00
ATOM	7178	HE1	MET	X	473	43.917	49.822	26.969	0.00	0.00
ATOM	7179	HE2	MET	X	473	45.075	49.314	28.035	0.00	0.00
ATOM	7180	HE3	MET	X	473	45.461	50.451	26.637	0.00	0.00
ATOM	7181	C	MET	X	473	40.874	45.962	24.835	0.00	0.00
ATOM	7182	O	MET	X	473	39.847	46.424	25.375	0.00	0.00
ATOM	7183	N	ARG	X	474	40.948	45.683	23.526	0.00	0.00
ATOM	7184	H	ARG	X	474	41.638	44.994	23.259	0.00	0.00
ATOM	7185	CA	ARG	X	474	39.711	45.824	22.731	0.00	0.00
ATOM	7186	HA	ARG	X	474	39.318	46.829	22.886	0.00	0.00
ATOM	7187	CB	ARG	X	474	40.036	45.707	21.242	0.00	0.00
ATOM	7188	HB2	ARG	X	474	40.868	46.380	21.035	0.00	0.00
ATOM	7189	HB3	ARG	X	474	40.515	44.733	21.149	0.00	0.00
ATOM	7190	CG	ARG	X	474	38.969	45.845	20.197	0.00	0.00
ATOM	7191	HG2	ARG	X	474	39.359	45.663	19.195	0.00	0.00
ATOM	7192	HG3	ARG	X	474	38.166	45.151	20.445	0.00	0.00
ATOM	7193	CD	ARG	X	474	38.319	47.208	20.214	0.00	0.00
ATOM	7194	HD2	ARG	X	474	37.674	47.265	21.091	0.00	0.00
ATOM	7195	HD3	ARG	X	474	39.060	48.003	20.293	0.00	0.00
ATOM	7196	NE	ARG	X	474	37.456	47.461	19.021	0.00	0.00
ATOM	7197	HE	ARG	X	474	37.203	46.688	18.422	0.00	0.00
ATOM	7198	CZ	ARG	X	474	37.065	48.623	18.599	0.00	0.00
ATOM	7199	NH1	ARG	X	474	37.297	49.696	19.324	0.00	0.00
ATOM	7200	HH11	ARG	X	474	37.984	49.605	20.059	0.00	0.00
ATOM	7201	HH12	ARG	X	474	36.876	50.554	18.997	0.00	0.00
ATOM	7202	NH2	ARG	X	474	36.541	48.775	17.411	0.00	0.00
ATOM	7203	HH21	ARG	X	474	36.391	47.940	16.863	0.00	0.00
ATOM	7204	HH22	ARG	X	474	36.253	49.650	16.996	0.00	0.00
ATOM	7205	C	ARG	X	474	38.540	44.915	23.228	0.00	0.00
ATOM	7206	O	ARG	X	474	37.416	45.398	23.220	0.00	0.00
ATOM	7207	N	TYR	X	475	38.773	43.630	23.566	0.00	0.00
ATOM	7208	H	TYR	X	475	39.757	43.444	23.703	0.00	0.00
ATOM	7209	CA	TYR	X	475	37.679	42.704	23.880	0.00	0.00
ATOM	7210	HA	TYR	X	475	37.035	42.793	23.005	0.00	0.00
ATOM	7211	CB	TYR	X	475	38.202	41.317	23.999	0.00	0.00
ATOM	7212	HB2	TYR	X	475	38.906	41.327	24.831	0.00	0.00

ATOM	7213	HB3	TYR	X	475	37.362	40.728	24.367	0.00	0.00
ATOM	7214	CG	TYR	X	475	38.725	40.642	22.744	0.00	0.00
ATOM	7215	CD1	TYR	X	475	37.954	40.402	21.608	0.00	0.00
ATOM	7216	HD1	TYR	X	475	36.922	40.719	21.620	0.00	0.00
ATOM	7217	CE1	TYR	X	475	38.411	39.594	20.576	0.00	0.00
ATOM	7218	HE1	TYR	X	475	37.682	39.287	19.840	0.00	0.00
ATOM	7219	CZ	TYR	X	475	39.664	39.028	20.577	0.00	0.00
ATOM	7220	OH	TYR	X	475	39.967	38.097	19.616	0.00	0.00
ATOM	7221	HH	TYR	X	475	39.366	37.954	18.881	0.00	0.00
ATOM	7222	CE2	TYR	X	475	40.550	39.360	21.617	0.00	0.00
ATOM	7223	HE2	TYR	X	475	41.592	39.080	21.668	0.00	0.00
ATOM	7224	CD2	TYR	X	475	40.068	40.170	22.699	0.00	0.00
ATOM	7225	HD2	TYR	X	475	40.721	40.267	23.553	0.00	0.00
ATOM	7226	C	TYR	X	475	36.902	43.104	25.127	0.00	0.00
ATOM	7227	O	TYR	X	475	35.679	43.051	25.103	0.00	0.00
ATOM	7228	N	TRP	X	476	37.636	43.660	26.144	0.00	0.00
ATOM	7229	H	TRP	X	476	38.638	43.608	26.033	0.00	0.00
ATOM	7230	CA	TRP	X	476	36.955	44.009	27.420	0.00	0.00
ATOM	7231	HA	TRP	X	476	36.234	43.259	27.744	0.00	0.00
ATOM	7232	CB	TRP	X	476	37.976	44.181	28.558	0.00	0.00
ATOM	7233	HB2	TRP	X	476	38.839	44.790	28.286	0.00	0.00
ATOM	7234	HB3	TRP	X	476	37.493	44.836	29.282	0.00	0.00
ATOM	7235	CG	TRP	X	476	38.414	42.982	29.434	0.00	0.00
ATOM	7236	CD1	TRP	X	476	38.302	42.972	30.755	0.00	0.00
ATOM	7237	HD1	TRP	X	476	37.882	43.701	31.433	0.00	0.00
ATOM	7238	NE1	TRP	X	476	38.876	41.856	31.255	0.00	0.00
ATOM	7239	HE1	TRP	X	476	38.844	41.586	32.228	0.00	0.00
ATOM	7240	CE2	TRP	X	476	39.257	41.009	30.244	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	39.726	39.725	30.144	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	39.643	39.076	31.003	0.00	0.00
ATOM	7243	CH2	TRP	X	476	39.908	39.005	28.946	0.00	0.00
ATOM	7244	HH2	TRP	X	476	40.297	37.998	28.919	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	39.831	39.783	27.772	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	40.157	39.329	26.848	0.00	0.00
ATOM	7247	CE3	TRP	X	476	39.364	41.145	27.757	0.00	0.00
ATOM	7248	HE3	TRP	X	476	39.355	41.618	26.786	0.00	0.00
ATOM	7249	CD2	TRP	X	476	38.968	41.726	29.028	0.00	0.00
ATOM	7250	C	TRP	X	476	36.234	45.411	27.285	0.00	0.00
ATOM	7251	O	TRP	X	476	35.122	45.598	27.714	0.00	0.00
ATOM	7252	N	ALA	X	477	36.818	46.356	26.464	0.00	0.00
ATOM	7253	H	ALA	X	477	37.762	46.195	26.143	0.00	0.00
ATOM	7254	CA	ALA	X	477	36.124	47.579	26.055	0.00	0.00
ATOM	7255	HA	ALA	X	477	35.826	48.197	26.902	0.00	0.00
ATOM	7256	CB	ALA	X	477	37.126	48.464	25.317	0.00	0.00
ATOM	7257	HB1	ALA	X	477	37.950	48.678	25.998	0.00	0.00
ATOM	7258	HB2	ALA	X	477	37.506	47.996	24.408	0.00	0.00
ATOM	7259	HB3	ALA	X	477	36.688	49.424	25.044	0.00	0.00
ATOM	7260	C	ALA	X	477	34.854	47.323	25.264	0.00	0.00
ATOM	7261	O	ALA	X	477	33.727	47.885	25.617	0.00	0.00
ATOM	7262	N	ASN	X	478	34.798	46.386	24.269	0.00	0.00
ATOM	7263	H	ASN	X	478	35.572	45.768	24.074	0.00	0.00
ATOM	7264	CA	ASN	X	478	33.631	45.966	23.517	0.00	0.00
ATOM	7265	HA	ASN	X	478	33.088	46.875	23.259	0.00	0.00
ATOM	7266	CB	ASN	X	478	33.942	45.016	22.396	0.00	0.00
ATOM	7267	HB2	ASN	X	478	34.587	44.208	22.740	0.00	0.00
ATOM	7268	HB3	ASN	X	478	33.035	44.593	21.965	0.00	0.00
ATOM	7269	CG	ASN	X	478	34.729	45.590	21.182	0.00	0.00
ATOM	7270	OD1	ASN	X	478	34.982	46.753	20.978	0.00	0.00
ATOM	7271	ND2	ASN	X	478	35.279	44.718	20.305	0.00	0.00
ATOM	7272	HD21	ASN	X	478	35.751	45.063	19.482	0.00	0.00
ATOM	7273	HD22	ASN	X	478	35.179	43.723	20.448	0.00	0.00
ATOM	7274	C	ASN	X	478	32.587	45.273	24.483	0.00	0.00
ATOM	7275	O	ASN	X	478	31.412	45.648	24.355	0.00	0.00
ATOM	7276	N	PHE	X	479	32.941	44.346	25.378	0.00	0.00
ATOM	7277	H	PHE	X	479	33.931	44.155	25.317	0.00	0.00
ATOM	7278	CA	PHE	X	479	31.995	43.768	26.343	0.00	0.00
ATOM	7279	HA	PHE	X	479	31.122	43.460	25.767	0.00	0.00
ATOM	7280	CB	PHE	X	479	32.707	42.572	27.025	0.00	0.00
ATOM	7281	HB2	PHE	X	479	33.015	41.777	26.346	0.00	0.00
ATOM	7282	HB3	PHE	X	479	33.633	42.886	27.506	0.00	0.00

ATOM	7283	CG	PHE	X	479	31.941	41.908	28.153	0.00	0.00
ATOM	7284	CD1	PHE	X	479	31.028	40.863	27.830	0.00	0.00
ATOM	7285	HD1	PHE	X	479	30.974	40.418	26.848	0.00	0.00
ATOM	7286	CE1	PHE	X	479	30.295	40.248	28.885	0.00	0.00
ATOM	7287	HE1	PHE	X	479	29.574	39.510	28.566	0.00	0.00
ATOM	7288	CZ	PHE	X	479	30.313	40.788	30.120	0.00	0.00
ATOM	7289	HZ	PHE	X	479	29.766	40.296	30.910	0.00	0.00
ATOM	7290	CE2	PHE	X	479	31.258	41.821	30.427	0.00	0.00
ATOM	7291	HE2	PHE	X	479	31.408	42.162	31.441	0.00	0.00
ATOM	7292	CD2	PHE	X	479	32.097	42.270	29.481	0.00	0.00
ATOM	7293	HD2	PHE	X	479	32.773	43.071	29.745	0.00	0.00
ATOM	7294	C	PHE	X	479	31.415	44.879	27.254	0.00	0.00
ATOM	7295	O	PHE	X	479	30.281	44.662	27.624	0.00	0.00
ATOM	7296	N	ALA	X	480	32.052	46.032	27.470	0.00	0.00
ATOM	7297	H	ALA	X	480	32.998	46.129	27.130	0.00	0.00
ATOM	7298	CA	ALA	X	480	31.420	47.208	28.029	0.00	0.00
ATOM	7299	HA	ALA	X	480	30.987	46.809	28.947	0.00	0.00
ATOM	7300	CB	ALA	X	480	32.508	48.129	28.543	0.00	0.00
ATOM	7301	HB1	ALA	X	480	32.789	49.002	27.954	0.00	0.00
ATOM	7302	HB2	ALA	X	480	32.170	48.646	29.441	0.00	0.00
ATOM	7303	HB3	ALA	X	480	33.426	47.588	28.773	0.00	0.00
ATOM	7304	C	ALA	X	480	30.420	47.856	27.089	0.00	0.00
ATOM	7305	O	ALA	X	480	29.309	48.214	27.558	0.00	0.00
ATOM	7306	N	ARG	X	481	30.757	47.907	25.790	0.00	0.00
ATOM	7307	H	ARG	X	481	31.691	47.619	25.536	0.00	0.00
ATOM	7308	CA	ARG	X	481	29.980	48.493	24.689	0.00	0.00
ATOM	7309	HA	ARG	X	481	29.669	49.519	24.882	0.00	0.00
ATOM	7310	CB	ARG	X	481	30.731	48.601	23.349	0.00	0.00
ATOM	7311	HB2	ARG	X	481	31.033	47.588	23.083	0.00	0.00
ATOM	7312	HB3	ARG	X	481	29.994	48.871	22.593	0.00	0.00
ATOM	7313	CG	ARG	X	481	31.932	49.608	23.378	0.00	0.00
ATOM	7314	HG2	ARG	X	481	31.459	50.589	23.351	0.00	0.00
ATOM	7315	HG3	ARG	X	481	32.501	49.527	24.304	0.00	0.00
ATOM	7316	CD	ARG	X	481	32.738	49.668	22.099	0.00	0.00
ATOM	7317	HD2	ARG	X	481	33.171	48.689	21.896	0.00	0.00
ATOM	7318	HD3	ARG	X	481	32.157	50.125	21.298	0.00	0.00
ATOM	7319	NE	ARG	X	481	33.903	50.632	22.226	0.00	0.00
ATOM	7320	HE	ARG	X	481	33.726	51.595	21.981	0.00	0.00
ATOM	7321	CZ	ARG	X	481	35.205	50.370	22.369	0.00	0.00
ATOM	7322	NH1	ARG	X	481	35.806	49.147	22.443	0.00	0.00
ATOM	7323	HH11	ARG	X	481	35.337	48.252	22.435	0.00	0.00
ATOM	7324	HH12	ARG	X	481	36.812	49.118	22.362	0.00	0.00
ATOM	7325	NH2	ARG	X	481	36.045	51.381	22.493	0.00	0.00
ATOM	7326	HH21	ARG	X	481	35.617	52.292	22.568	0.00	0.00
ATOM	7327	HH22	ARG	X	481	37.047	51.261	22.460	0.00	0.00
ATOM	7328	C	ARG	X	481	28.606	47.815	24.435	0.00	0.00
ATOM	7329	O	ARG	X	481	27.571	48.474	24.384	0.00	0.00
ATOM	7330	N	THR	X	482	28.690	46.516	24.313	0.00	0.00
ATOM	7331	H	THR	X	482	29.632	46.153	24.356	0.00	0.00
ATOM	7332	CA	THR	X	482	27.647	45.651	23.758	0.00	0.00
ATOM	7333	HA	THR	X	482	26.691	46.174	23.735	0.00	0.00
ATOM	7334	CB	THR	X	482	27.953	45.269	22.286	0.00	0.00
ATOM	7335	HB	THR	X	482	27.247	44.476	22.041	0.00	0.00
ATOM	7336	CG2	THR	X	482	27.912	46.465	21.370	0.00	0.00
ATOM	7337	HG21	THR	X	482	28.727	47.172	21.520	0.00	0.00
ATOM	7338	HG22	THR	X	482	28.081	46.103	20.356	0.00	0.00
ATOM	7339	HG23	THR	X	482	26.971	46.995	21.519	0.00	0.00
ATOM	7340	OG1	THR	X	482	29.197	44.630	22.229	0.00	0.00
ATOM	7341	HG1	THR	X	482	29.505	44.414	21.346	0.00	0.00
ATOM	7342	C	THR	X	482	27.472	44.244	24.428	0.00	0.00
ATOM	7343	O	THR	X	482	26.380	43.702	24.393	0.00	0.00
ATOM	7344	N	GLY	X	483	28.495	43.698	25.007	0.00	0.00
ATOM	7345	H	GLY	X	483	29.330	44.267	25.026	0.00	0.00
ATOM	7346	CA	GLY	X	483	28.465	42.453	25.808	0.00	0.00
ATOM	7347	HA2	GLY	X	483	29.170	42.413	26.636	0.00	0.00
ATOM	7348	HA3	GLY	X	483	27.401	42.160	26.122	0.00	0.00
ATOM	7349	C	GLY	X	483	28.906	41.363	24.857	0.00	0.00
ATOM	7350	O	GLY	X	483	28.925	40.194	25.168	0.00	0.00
ATOM	7351	N	ASP	X	484	29.298	41.685	23.623	0.00	0.00
ATOM	7352	H	ASP	X	484	29.267	42.678	23.437	0.00	0.00

ATOM	7353	CA	ASP	X	484	29.907	40.770	22.694	0.00	0.00
ATOM	7354	HA	ASP	X	484	29.961	39.802	23.190	0.00	0.00
ATOM	7355	CB	ASP	X	484	29.180	40.647	21.351	0.00	0.00
ATOM	7356	HB2	ASP	X	484	28.828	41.646	21.090	0.00	0.00
ATOM	7357	HB3	ASP	X	484	29.890	40.431	20.553	0.00	0.00
ATOM	7358	CG	ASP	X	484	28.040	39.627	21.266	0.00	0.00
ATOM	7359	OD1	ASP	X	484	28.094	38.827	20.324	0.00	0.00
ATOM	7360	OD2	ASP	X	484	27.048	39.692	21.984	0.00	0.00
ATOM	7361	C	ASP	X	484	31.345	41.260	22.466	0.00	0.00
ATOM	7362	O	ASP	X	484	31.590	42.421	22.190	0.00	0.00
ATOM	7363	N	PRO	X	485	32.332	40.484	22.852	0.00	0.00
ATOM	7364	CD	PRO	X	485	32.238	39.131	23.408	0.00	0.00
ATOM	7365	HD2	PRO	X	485	31.731	38.415	22.760	0.00	0.00
ATOM	7366	HD3	PRO	X	485	31.800	39.151	24.406	0.00	0.00
ATOM	7367	CG	PRO	X	485	33.678	38.663	23.515	0.00	0.00
ATOM	7368	HG2	PRO	X	485	33.941	38.210	22.559	0.00	0.00
ATOM	7369	HG3	PRO	X	485	33.788	37.895	24.281	0.00	0.00
ATOM	7370	CB	PRO	X	485	34.461	39.852	23.716	0.00	0.00
ATOM	7371	HB2	PRO	X	485	35.462	39.710	23.310	0.00	0.00
ATOM	7372	HB3	PRO	X	485	34.427	39.958	24.801	0.00	0.00
ATOM	7373	CA	PRO	X	485	33.722	40.932	22.936	0.00	0.00
ATOM	7374	HA	PRO	X	485	33.725	41.904	23.429	0.00	0.00
ATOM	7375	C	PRO	X	485	34.331	41.119	21.600	0.00	0.00
ATOM	7376	O	PRO	X	485	35.133	42.019	21.428	0.00	0.00
ATOM	7377	N	ASN	X	486	33.933	40.295	20.611	0.00	0.00
ATOM	7378	H	ASN	X	486	33.276	39.552	20.802	0.00	0.00
ATOM	7379	CA	ASN	X	486	34.207	40.511	19.137	0.00	0.00
ATOM	7380	HA	ASN	X	486	35.263	40.406	18.886	0.00	0.00
ATOM	7381	CB	ASN	X	486	33.579	39.271	18.422	0.00	0.00
ATOM	7382	HB2	ASN	X	486	33.757	39.366	17.350	0.00	0.00
ATOM	7383	HB3	ASN	X	486	33.990	38.346	18.826	0.00	0.00
ATOM	7384	CG	ASN	X	486	32.096	39.185	18.683	0.00	0.00
ATOM	7385	OD1	ASN	X	486	31.597	38.671	19.661	0.00	0.00
ATOM	7386	ND2	ASN	X	486	31.326	39.767	17.738	0.00	0.00
ATOM	7387	HD21	ASN	X	486	30.390	40.079	17.957	0.00	0.00
ATOM	7388	HD22	ASN	X	486	31.744	40.194	16.925	0.00	0.00
ATOM	7389	C	ASN	X	486	33.767	41.775	18.489	0.00	0.00
ATOM	7390	O	ASN	X	486	32.901	42.502	19.019	0.00	0.00
ATOM	7391	N	GLU	X	487	34.360	42.090	17.293	0.00	0.00
ATOM	7392	H	GLU	X	487	35.092	41.475	16.967	0.00	0.00
ATOM	7393	CA	GLU	X	487	33.901	43.172	16.454	0.00	0.00
ATOM	7394	HA	GLU	X	487	33.805	44.046	17.099	0.00	0.00
ATOM	7395	CB	GLU	X	487	34.852	43.252	15.252	0.00	0.00
ATOM	7396	HB2	GLU	X	487	35.157	42.263	14.912	0.00	0.00
ATOM	7397	HB3	GLU	X	487	34.455	43.682	14.333	0.00	0.00
ATOM	7398	CG	GLU	X	487	36.125	44.047	15.646	0.00	0.00
ATOM	7399	HG2	GLU	X	487	36.731	43.602	16.435	0.00	0.00
ATOM	7400	HG3	GLU	X	487	36.705	44.183	14.733	0.00	0.00
ATOM	7401	CD	GLU	X	487	35.939	45.485	16.160	0.00	0.00
ATOM	7402	OE1	GLU	X	487	35.768	46.467	15.367	0.00	0.00
ATOM	7403	OE2	GLU	X	487	36.082	45.708	17.383	0.00	0.00
ATOM	7404	C	GLU	X	487	32.467	42.815	15.839	0.00	0.00
ATOM	7405	O	GLU	X	487	32.175	41.636	15.742	0.00	0.00
ATOM	7406	N	PRO	X	488	31.707	43.804	15.305	0.00	0.00
ATOM	7407	CD	PRO	X	488	32.175	45.190	15.276	0.00	0.00
ATOM	7408	HD2	PRO	X	488	33.110	45.297	14.727	0.00	0.00
ATOM	7409	HD3	PRO	X	488	32.323	45.606	16.273	0.00	0.00
ATOM	7410	CG	PRO	X	488	31.155	45.945	14.521	0.00	0.00
ATOM	7411	HG2	PRO	X	488	31.512	46.061	13.498	0.00	0.00
ATOM	7412	HG3	PRO	X	488	30.905	46.884	15.014	0.00	0.00
ATOM	7413	CB	PRO	X	488	29.829	45.108	14.553	0.00	0.00
ATOM	7414	HB2	PRO	X	488	29.343	45.271	13.592	0.00	0.00
ATOM	7415	HB3	PRO	X	488	29.160	45.449	15.343	0.00	0.00
ATOM	7416	CA	PRO	X	488	30.425	43.689	14.635	0.00	0.00
ATOM	7417	HA	PRO	X	488	29.749	43.057	15.211	0.00	0.00
ATOM	7418	C	PRO	X	488	30.530	43.069	13.202	0.00	0.00
ATOM	7419	O	PRO	X	488	29.548	42.392	12.882	0.00	0.00
ATOM	7420	N	ARG	X	489	31.628	43.293	12.472	0.00	0.00
ATOM	7421	H	ARG	X	489	32.375	43.810	12.913	0.00	0.00
ATOM	7422	CA	ARG	X	489	32.010	42.714	11.229	0.00	0.00

ATOM	7423	HA	ARG	X	489	31.322	41.897	11.011	0.00	0.00
ATOM	7424	CB	ARG	X	489	31.672	43.739	10.127	0.00	0.00
ATOM	7425	HB2	ARG	X	489	31.946	43.344	9.148	0.00	0.00
ATOM	7426	HB3	ARG	X	489	30.588	43.845	10.147	0.00	0.00
ATOM	7427	CG	ARG	X	489	32.501	44.966	10.160	0.00	0.00
ATOM	7428	HG2	ARG	X	489	32.315	45.486	11.100	0.00	0.00
ATOM	7429	HG3	ARG	X	489	33.554	44.684	10.173	0.00	0.00
ATOM	7430	CD	ARG	X	489	32.204	45.894	9.012	0.00	0.00
ATOM	7431	HD2	ARG	X	489	32.556	45.343	8.140	0.00	0.00
ATOM	7432	HD3	ARG	X	489	31.119	45.989	8.965	0.00	0.00
ATOM	7433	NE	ARG	X	489	32.792	47.179	9.308	0.00	0.00
ATOM	7434	HE	ARG	X	489	33.736	47.342	8.989	0.00	0.00
ATOM	7435	CZ	ARG	X	489	32.190	48.298	9.799	0.00	0.00
ATOM	7436	NH1	ARG	X	489	32.595	49.428	9.391	0.00	0.00
ATOM	7437	HH11	ARG	X	489	33.330	49.578	8.714	0.00	0.00
ATOM	7438	HH12	ARG	X	489	32.157	50.281	9.708	0.00	0.00
ATOM	7439	NH2	ARG	X	489	31.164	48.186	10.554	0.00	0.00
ATOM	7440	HH21	ARG	X	489	30.540	47.402	10.431	0.00	0.00
ATOM	7441	HH22	ARG	X	489	30.739	49.044	10.875	0.00	0.00
ATOM	7442	C	ARG	X	489	33.386	42.112	11.285	0.00	0.00
ATOM	7443	O	ARG	X	489	34.242	42.737	11.905	0.00	0.00
ATOM	7444	N	ASP	X	490	33.537	40.879	10.770	0.00	0.00
ATOM	7445	H	ASP	X	490	32.723	40.368	10.461	0.00	0.00
ATOM	7446	CA	ASP	X	490	34.705	40.065	11.021	0.00	0.00
ATOM	7447	HA	ASP	X	490	35.547	40.735	11.197	0.00	0.00
ATOM	7448	CB	ASP	X	490	34.536	39.166	12.227	0.00	0.00
ATOM	7449	HB2	ASP	X	490	35.434	38.594	12.458	0.00	0.00
ATOM	7450	HB3	ASP	X	490	34.326	39.804	13.086	0.00	0.00
ATOM	7451	CG	ASP	X	490	33.525	38.100	12.065	0.00	0.00
ATOM	7452	OD1	ASP	X	490	33.925	36.956	11.701	0.00	0.00
ATOM	7453	OD2	ASP	X	490	32.309	38.399	12.203	0.00	0.00
ATOM	7454	C	ASP	X	490	35.149	39.266	9.757	0.00	0.00
ATOM	7455	O	ASP	X	490	34.328	39.033	8.836	0.00	0.00
ATOM	7456	N	PRO	X	491	36.462	38.932	9.628	0.00	0.00
ATOM	7457	CD	PRO	X	491	37.557	39.336	10.515	0.00	0.00
ATOM	7458	HD2	PRO	X	491	37.501	38.882	11.504	0.00	0.00
ATOM	7459	HD3	PRO	X	491	37.541	40.425	10.473	0.00	0.00
ATOM	7460	CG	PRO	X	491	38.840	38.786	9.852	0.00	0.00
ATOM	7461	HG2	PRO	X	491	38.960	37.872	10.435	0.00	0.00
ATOM	7462	HG3	PRO	X	491	39.666	39.475	10.028	0.00	0.00
ATOM	7463	CB	PRO	X	491	38.532	38.537	8.367	0.00	0.00
ATOM	7464	HB2	PRO	X	491	39.077	37.718	7.897	0.00	0.00
ATOM	7465	HB3	PRO	X	491	38.597	39.509	7.879	0.00	0.00
ATOM	7466	CA	PRO	X	491	37.030	38.325	8.402	0.00	0.00
ATOM	7467	HA	PRO	X	491	36.665	38.903	7.552	0.00	0.00
ATOM	7468	C	PRO	X	491	36.670	36.808	8.339	0.00	0.00
ATOM	7469	O	PRO	X	491	36.044	36.313	9.263	0.00	0.00
ATOM	7470	N	LYS	X	492	37.334	35.995	7.433	0.00	0.00
ATOM	7471	H	LYS	X	492	37.885	36.358	6.669	0.00	0.00
ATOM	7472	CA	LYS	X	492	37.145	34.551	7.430	0.00	0.00
ATOM	7473	HA	LYS	X	492	36.091	34.353	7.624	0.00	0.00
ATOM	7474	CB	LYS	X	492	37.503	33.866	6.034	0.00	0.00
ATOM	7475	HB2	LYS	X	492	38.544	34.105	5.821	0.00	0.00
ATOM	7476	HB3	LYS	X	492	37.289	32.797	6.023	0.00	0.00
ATOM	7477	CG	LYS	X	492	36.647	34.422	4.924	0.00	0.00
ATOM	7478	HG2	LYS	X	492	35.664	34.648	5.338	0.00	0.00
ATOM	7479	HG3	LYS	X	492	37.045	35.395	4.636	0.00	0.00
ATOM	7480	CD	LYS	X	492	36.606	33.608	3.648	0.00	0.00
ATOM	7481	HD2	LYS	X	492	37.643	33.422	3.368	0.00	0.00
ATOM	7482	HD3	LYS	X	492	36.113	32.695	3.982	0.00	0.00
ATOM	7483	CE	LYS	X	492	35.752	34.238	2.547	0.00	0.00
ATOM	7484	HE2	LYS	X	492	34.723	34.355	2.890	0.00	0.00
ATOM	7485	HE3	LYS	X	492	36.101	35.240	2.296	0.00	0.00
ATOM	7486	NZ	LYS	X	492	35.660	33.310	1.441	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	35.371	33.808	0.611	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	36.553	32.853	1.327	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	34.981	32.616	1.716	0.00	0.00
ATOM	7490	C	LYS	X	492	37.769	33.792	8.587	0.00	0.00
ATOM	7491	O	LYS	X	492	37.812	32.575	8.620	0.00	0.00
ATOM	7492	N	ALA	X	493	38.260	34.531	9.547	0.00	0.00

ATOM	7493	H	ALA	X	493	38.133	35.532	9.519	0.00	0.00
ATOM	7494	CA	ALA	X	493	38.854	34.025	10.826	0.00	0.00
ATOM	7495	HA	ALA	X	493	39.328	33.054	10.683	0.00	0.00
ATOM	7496	CB	ALA	X	493	39.902	35.051	11.263	0.00	0.00
ATOM	7497	HB1	ALA	X	493	40.758	35.118	10.591	0.00	0.00
ATOM	7498	HB2	ALA	X	493	39.240	35.915	11.299	0.00	0.00
ATOM	7499	HB3	ALA	X	493	40.171	34.855	12.301	0.00	0.00
ATOM	7500	C	ALA	X	493	37.814	33.884	11.923	0.00	0.00
ATOM	7501	O	ALA	X	493	36.890	34.677	12.029	0.00	0.00
ATOM	7502	N	PRO	X	494	38.034	32.992	12.922	0.00	0.00
ATOM	7503	CD	PRO	X	494	39.151	32.013	13.031	0.00	0.00
ATOM	7504	HD2	PRO	X	494	40.143	32.442	12.891	0.00	0.00
ATOM	7505	HD3	PRO	X	494	39.027	31.258	12.254	0.00	0.00
ATOM	7506	CG	PRO	X	494	39.032	31.314	14.359	0.00	0.00
ATOM	7507	HG2	PRO	X	494	39.418	31.859	15.220	0.00	0.00
ATOM	7508	HG3	PRO	X	494	39.374	30.280	14.307	0.00	0.00
ATOM	7509	CB	PRO	X	494	37.499	31.289	14.452	0.00	0.00
ATOM	7510	HB2	PRO	X	494	37.109	31.023	15.435	0.00	0.00
ATOM	7511	HB3	PRO	X	494	37.066	30.617	13.711	0.00	0.00
ATOM	7512	CA	PRO	X	494	37.048	32.671	13.977	0.00	0.00
ATOM	7513	HA	PRO	X	494	36.032	32.597	13.589	0.00	0.00
ATOM	7514	C	PRO	X	494	37.082	33.746	15.042	0.00	0.00
ATOM	7515	O	PRO	X	494	38.066	34.443	15.186	0.00	0.00
ATOM	7516	N	GLN	X	495	35.993	33.787	15.794	0.00	0.00
ATOM	7517	H	GLN	X	495	35.251	33.109	15.696	0.00	0.00
ATOM	7518	CA	GLN	X	495	35.696	34.910	16.812	0.00	0.00
ATOM	7519	HA	GLN	X	495	36.605	35.496	16.949	0.00	0.00
ATOM	7520	CB	GLN	X	495	34.527	35.817	16.222	0.00	0.00
ATOM	7521	HB2	GLN	X	495	33.586	35.270	16.155	0.00	0.00
ATOM	7522	HB3	GLN	X	495	34.312	36.489	17.052	0.00	0.00
ATOM	7523	CG	GLN	X	495	34.711	36.667	14.967	0.00	0.00
ATOM	7524	HG2	GLN	X	495	34.791	36.108	14.035	0.00	0.00
ATOM	7525	HG3	GLN	X	495	33.888	37.382	14.961	0.00	0.00
ATOM	7526	CD	GLN	X	495	35.999	37.427	15.091	0.00	0.00
ATOM	7527	OE1	GLN	X	495	36.190	38.296	15.870	0.00	0.00
ATOM	7528	NE2	GLN	X	495	36.943	37.163	14.211	0.00	0.00
ATOM	7529	HE21	GLN	X	495	37.648	37.850	13.982	0.00	0.00
ATOM	7530	HE22	GLN	X	495	36.747	36.466	13.507	0.00	0.00
ATOM	7531	C	GLN	X	495	35.176	34.280	18.152	0.00	0.00
ATOM	7532	O	GLN	X	495	34.850	33.073	18.204	0.00	0.00
ATOM	7533	N	TRP	X	496	35.409	34.957	19.252	0.00	0.00
ATOM	7534	H	TRP	X	496	35.828	35.873	19.173	0.00	0.00
ATOM	7535	CA	TRP	X	496	35.123	34.473	20.599	0.00	0.00
ATOM	7536	HA	TRP	X	496	35.739	33.577	20.685	0.00	0.00
ATOM	7537	CB	TRP	X	496	35.688	35.492	21.629	0.00	0.00
ATOM	7538	HB2	TRP	X	496	36.686	35.865	21.396	0.00	0.00
ATOM	7539	HB3	TRP	X	496	35.009	36.342	21.577	0.00	0.00
ATOM	7540	CG	TRP	X	496	35.797	35.129	23.063	0.00	0.00
ATOM	7541	CD1	TRP	X	496	35.282	34.042	23.690	0.00	0.00
ATOM	7542	HD1	TRP	X	496	34.780	33.251	23.151	0.00	0.00
ATOM	7543	NE1	TRP	X	496	35.494	34.097	25.053	0.00	0.00
ATOM	7544	HE1	TRP	X	496	35.466	33.238	25.582	0.00	0.00
ATOM	7545	CE2	TRP	X	496	36.187	35.234	25.353	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	36.813	35.633	26.508	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	36.731	34.928	27.322	0.00	0.00
ATOM	7548	CH2	TRP	X	496	37.542	36.847	26.529	0.00	0.00
ATOM	7549	HH2	TRP	X	496	38.047	37.093	27.451	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	37.584	37.716	25.416	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	38.097	38.666	25.447	0.00	0.00
ATOM	7552	CE3	TRP	X	496	36.967	37.230	24.205	0.00	0.00
ATOM	7553	HE3	TRP	X	496	37.084	37.708	23.243	0.00	0.00
ATOM	7554	CD2	TRP	X	496	36.355	35.969	24.150	0.00	0.00
ATOM	7555	C	TRP	X	496	33.625	34.057	20.746	0.00	0.00
ATOM	7556	O	TRP	X	496	32.766	34.916	20.636	0.00	0.00
ATOM	7557	N	PRO	X	497	33.289	32.774	20.986	0.00	0.00
ATOM	7558	CD	PRO	X	497	34.158	31.656	21.031	0.00	0.00
ATOM	7559	HD2	PRO	X	497	34.955	31.798	21.760	0.00	0.00
ATOM	7560	HD3	PRO	X	497	34.663	31.657	20.065	0.00	0.00
ATOM	7561	CG	PRO	X	497	33.258	30.430	21.295	0.00	0.00
ATOM	7562	HG2	PRO	X	497	33.119	30.282	22.366	0.00	0.00

ATOM	7563	HG3	PRO	X	497	33.837	29.642	20.813	0.00	0.00
ATOM	7564	CB	PRO	X	497	31.972	30.789	20.570	0.00	0.00
ATOM	7565	HB2	PRO	X	497	31.165	30.169	20.959	0.00	0.00
ATOM	7566	HB3	PRO	X	497	32.076	30.858	19.487	0.00	0.00
ATOM	7567	CA	PRO	X	497	31.859	32.302	20.942	0.00	0.00
ATOM	7568	HA	PRO	X	497	31.290	32.796	20.154	0.00	0.00
ATOM	7569	C	PRO	X	497	31.192	32.381	22.340	0.00	0.00
ATOM	7570	O	PRO	X	497	31.890	32.541	23.308	0.00	0.00
ATOM	7571	N	PRO	X	498	29.791	32.320	22.423	0.00	0.00
ATOM	7572	CD	PRO	X	498	28.868	32.774	21.405	0.00	0.00
ATOM	7573	HD2	PRO	X	498	29.099	32.377	20.417	0.00	0.00
ATOM	7574	HD3	PRO	X	498	28.826	33.859	21.312	0.00	0.00
ATOM	7575	CG	PRO	X	498	27.412	32.422	21.899	0.00	0.00
ATOM	7576	HG2	PRO	X	498	27.117	31.373	21.869	0.00	0.00
ATOM	7577	HG3	PRO	X	498	26.636	33.109	21.560	0.00	0.00
ATOM	7578	CB	PRO	X	498	27.613	32.682	23.364	0.00	0.00
ATOM	7579	HB2	PRO	X	498	26.919	32.033	23.898	0.00	0.00
ATOM	7580	HB3	PRO	X	498	27.491	33.713	23.698	0.00	0.00
ATOM	7581	CA	PRO	X	498	29.067	32.256	23.663	0.00	0.00
ATOM	7582	HA	PRO	X	498	29.489	33.059	24.268	0.00	0.00
ATOM	7583	C	PRO	X	498	29.250	30.836	24.313	0.00	0.00
ATOM	7584	O	PRO	X	498	29.396	29.866	23.594	0.00	0.00
ATOM	7585	N	TYR	X	499	29.059	30.725	25.636	0.00	0.00
ATOM	7586	H	TYR	X	499	29.006	31.623	26.094	0.00	0.00
ATOM	7587	CA	TYR	X	499	29.103	29.403	26.323	0.00	0.00
ATOM	7588	HA	TYR	X	499	29.902	28.857	25.823	0.00	0.00
ATOM	7589	CB	TYR	X	499	29.606	29.591	27.764	0.00	0.00
ATOM	7590	HB2	TYR	X	499	30.227	30.483	27.847	0.00	0.00
ATOM	7591	HB3	TYR	X	499	28.801	29.879	28.441	0.00	0.00
ATOM	7592	CG	TYR	X	499	30.335	28.380	28.371	0.00	0.00
ATOM	7593	CD1	TYR	X	499	29.646	27.520	29.252	0.00	0.00
ATOM	7594	HD1	TYR	X	499	28.584	27.611	29.423	0.00	0.00
ATOM	7595	CE1	TYR	X	499	30.276	26.398	29.803	0.00	0.00
ATOM	7596	HE1	TYR	X	499	29.666	25.837	30.495	0.00	0.00
ATOM	7597	CZ	TYR	X	499	31.595	26.017	29.472	0.00	0.00
ATOM	7598	OH	TYR	X	499	32.174	24.899	30.007	0.00	0.00
ATOM	7599	HH	TYR	X	499	31.498	24.464	30.531	0.00	0.00
ATOM	7600	CE2	TYR	X	499	32.256	26.889	28.583	0.00	0.00
ATOM	7601	HE2	TYR	X	499	33.248	26.619	28.254	0.00	0.00
ATOM	7602	CD2	TYR	X	499	31.663	28.021	28.010	0.00	0.00
ATOM	7603	HD2	TYR	X	499	32.124	28.741	27.350	0.00	0.00
ATOM	7604	C	TYR	X	499	27.804	28.693	26.371	0.00	0.00
ATOM	7605	O	TYR	X	499	26.838	29.182	26.823	0.00	0.00
ATOM	7606	N	THR	X	500	27.896	27.386	26.047	0.00	0.00
ATOM	7607	H	THR	X	500	28.746	27.013	25.650	0.00	0.00
ATOM	7608	CA	THR	X	500	26.781	26.451	26.261	0.00	0.00
ATOM	7609	HA	THR	X	500	25.865	26.823	26.719	0.00	0.00
ATOM	7610	CB	THR	X	500	26.495	25.902	24.869	0.00	0.00
ATOM	7611	HB	THR	X	500	25.577	25.317	24.936	0.00	0.00
ATOM	7612	CG2	THR	X	500	26.220	26.998	23.776	0.00	0.00
ATOM	7613	HG21	THR	X	500	25.857	26.579	22.837	0.00	0.00
ATOM	7614	HG22	THR	X	500	25.377	27.576	24.156	0.00	0.00
ATOM	7615	HG23	THR	X	500	27.096	27.616	23.577	0.00	0.00
ATOM	7616	OG1	THR	X	500	27.621	25.279	24.333	0.00	0.00
ATOM	7617	HG1	THR	X	500	27.260	24.629	23.726	0.00	0.00
ATOM	7618	C	THR	X	500	27.292	25.341	27.105	0.00	0.00
ATOM	7619	O	THR	X	500	28.494	24.989	27.197	0.00	0.00
ATOM	7620	N	ALA	X	501	26.309	24.528	27.653	0.00	0.00
ATOM	7621	H	ALA	X	501	25.352	24.791	27.465	0.00	0.00
ATOM	7622	CA	ALA	X	501	26.491	23.373	28.418	0.00	0.00
ATOM	7623	HA	ALA	X	501	27.336	23.487	29.098	0.00	0.00
ATOM	7624	CB	ALA	X	501	25.159	23.217	29.247	0.00	0.00
ATOM	7625	HB1	ALA	X	501	24.391	22.808	28.591	0.00	0.00
ATOM	7626	HB2	ALA	X	501	25.413	22.473	30.003	0.00	0.00
ATOM	7627	HB3	ALA	X	501	24.793	24.196	29.556	0.00	0.00
ATOM	7628	C	ALA	X	501	26.800	22.082	27.552	0.00	0.00
ATOM	7629	O	ALA	X	501	27.275	21.161	28.187	0.00	0.00
ATOM	7630	N	GLY	X	502	26.475	22.074	26.272	0.00	0.00
ATOM	7631	H	GLY	X	502	26.050	22.910	25.899	0.00	0.00
ATOM	7632	CA	GLY	X	502	26.820	21.017	25.299	0.00	0.00

ATOM	7633	HA2	GLY	X	502	26.767	19.969	25.668	0.00	0.00
ATOM	7634	HA3	GLY	X	502	26.145	21.194	24.409	0.00	0.00
ATOM	7635	C	GLY	X	502	28.255	21.179	24.801	0.00	0.00
ATOM	7636	O	GLY	X	502	29.168	20.457	25.233	0.00	0.00
ATOM	7637	N	ALA	X	503	28.431	22.017	23.759	0.00	0.00
ATOM	7638	H	ALA	X	503	27.652	22.628	23.559	0.00	0.00
ATOM	7639	CA	ALA	X	503	29.694	22.280	23.087	0.00	0.00
ATOM	7640	HA	ALA	X	503	30.028	21.375	22.578	0.00	0.00
ATOM	7641	CB	ALA	X	503	29.356	23.225	21.936	0.00	0.00
ATOM	7642	HB1	ALA	X	503	28.983	24.210	22.214	0.00	0.00
ATOM	7643	HB2	ALA	X	503	30.235	23.551	21.380	0.00	0.00
ATOM	7644	HB3	ALA	X	503	28.635	22.788	21.245	0.00	0.00
ATOM	7645	C	ALA	X	503	30.811	22.844	24.009	0.00	0.00
ATOM	7646	O	ALA	X	503	32.000	22.485	23.923	0.00	0.00
ATOM	7647	N	GLN	X	504	30.456	23.724	24.964	0.00	0.00
ATOM	7648	H	GLN	X	504	29.486	24.002	24.938	0.00	0.00
ATOM	7649	CA	GLN	X	504	31.382	24.331	26.049	0.00	0.00
ATOM	7650	HA	GLN	X	504	30.867	25.081	26.648	0.00	0.00
ATOM	7651	CB	GLN	X	504	31.686	23.302	27.086	0.00	0.00
ATOM	7652	HB2	GLN	X	504	32.271	22.614	26.475	0.00	0.00
ATOM	7653	HB3	GLN	X	504	32.385	23.758	27.787	0.00	0.00
ATOM	7654	CG	GLN	X	504	30.513	22.595	27.762	0.00	0.00
ATOM	7655	HG2	GLN	X	504	30.105	23.362	28.420	0.00	0.00
ATOM	7656	HG3	GLN	X	504	29.710	22.365	27.062	0.00	0.00
ATOM	7657	CD	GLN	X	504	30.994	21.368	28.582	0.00	0.00
ATOM	7658	OE1	GLN	X	504	31.460	21.547	29.718	0.00	0.00
ATOM	7659	NE2	GLN	X	504	30.930	20.146	28.100	0.00	0.00
ATOM	7660	HE21	GLN	X	504	31.441	19.445	28.616	0.00	0.00
ATOM	7661	HE22	GLN	X	504	30.535	19.942	27.193	0.00	0.00
ATOM	7662	C	GLN	X	504	32.630	24.898	25.378	0.00	0.00
ATOM	7663	O	GLN	X	504	33.715	24.463	25.787	0.00	0.00
ATOM	7664	N	GLN	X	505	32.460	25.838	24.465	0.00	0.00
ATOM	7665	H	GLN	X	505	31.534	26.072	24.136	0.00	0.00
ATOM	7666	CA	GLN	X	505	33.568	26.446	23.718	0.00	0.00
ATOM	7667	HA	GLN	X	505	34.291	25.631	23.694	0.00	0.00
ATOM	7668	CB	GLN	X	505	33.018	26.868	22.359	0.00	0.00
ATOM	7669	HB2	GLN	X	505	32.376	27.740	22.485	0.00	0.00
ATOM	7670	HB3	GLN	X	505	33.931	27.105	21.812	0.00	0.00
ATOM	7671	CG	GLN	X	505	32.264	25.736	21.645	0.00	0.00
ATOM	7672	HG2	GLN	X	505	32.876	24.836	21.585	0.00	0.00
ATOM	7673	HG3	GLN	X	505	31.333	25.556	22.183	0.00	0.00
ATOM	7674	CD	GLN	X	505	31.991	26.120	20.157	0.00	0.00
ATOM	7675	OE1	GLN	X	505	32.483	25.512	19.279	0.00	0.00
ATOM	7676	NE2	GLN	X	505	31.166	27.123	19.940	0.00	0.00
ATOM	7677	HE21	GLN	X	505	30.958	27.499	19.026	0.00	0.00
ATOM	7678	HE22	GLN	X	505	30.578	27.430	20.702	0.00	0.00
ATOM	7679	C	GLN	X	505	34.276	27.592	24.415	0.00	0.00
ATOM	7680	O	GLN	X	505	33.698	28.325	25.209	0.00	0.00
ATOM	7681	N	TYR	X	506	35.559	27.795	24.108	0.00	0.00
ATOM	7682	H	TYR	X	506	35.863	27.443	23.211	0.00	0.00
ATOM	7683	CA	TYR	X	506	36.385	28.729	24.724	0.00	0.00
ATOM	7684	HA	TYR	X	506	35.871	29.670	24.921	0.00	0.00
ATOM	7685	CB	TYR	X	506	36.857	28.258	26.161	0.00	0.00
ATOM	7686	HB2	TYR	X	506	37.498	29.026	26.594	0.00	0.00
ATOM	7687	HB3	TYR	X	506	35.968	28.039	26.752	0.00	0.00
ATOM	7688	CG	TYR	X	506	37.773	27.058	26.032	0.00	0.00
ATOM	7689	CD1	TYR	X	506	37.202	25.791	25.857	0.00	0.00
ATOM	7690	HD1	TYR	X	506	36.137	25.751	25.677	0.00	0.00
ATOM	7691	CE1	TYR	X	506	37.998	24.664	25.796	0.00	0.00
ATOM	7692	HE1	TYR	X	506	37.569	23.704	25.552	0.00	0.00
ATOM	7693	CZ	TYR	X	506	39.375	24.736	26.104	0.00	0.00
ATOM	7694	OH	TYR	X	506	40.142	23.645	25.898	0.00	0.00
ATOM	7695	HH	TYR	X	506	39.604	22.885	25.666	0.00	0.00
ATOM	7696	CE2	TYR	X	506	39.927	25.955	26.434	0.00	0.00
ATOM	7697	HE2	TYR	X	506	40.985	26.094	26.602	0.00	0.00
ATOM	7698	CD2	TYR	X	506	39.113	27.113	26.348	0.00	0.00
ATOM	7699	HD2	TYR	X	506	39.444	28.113	26.588	0.00	0.00
ATOM	7700	C	TYR	X	506	37.644	29.205	23.868	0.00	0.00
ATOM	7701	O	TYR	X	506	38.053	28.522	22.925	0.00	0.00
ATOM	7702	N	VAL	X	507	38.109	30.439	24.163	0.00	0.00

ATOM	7703	H	VAL	X	507	37.618	30.975	24.864	0.00	0.00
ATOM	7704	CA	VAL	X	507	39.292	31.038	23.460	0.00	0.00
ATOM	7705	HA	VAL	X	507	39.499	30.542	22.511	0.00	0.00
ATOM	7706	CB	VAL	X	507	39.329	32.589	23.145	0.00	0.00
ATOM	7707	HB	VAL	X	507	40.264	32.812	22.632	0.00	0.00
ATOM	7708	CG1	VAL	X	507	38.117	32.871	22.155	0.00	0.00
ATOM	7709	HG11	VAL	X	507	38.008	33.954	22.211	0.00	0.00
ATOM	7710	HG12	VAL	X	507	38.347	32.571	21.133	0.00	0.00
ATOM	7711	HG13	VAL	X	507	37.188	32.401	22.477	0.00	0.00
ATOM	7712	CG2	VAL	X	507	39.232	33.511	24.380	0.00	0.00
ATOM	7713	HG21	VAL	X	507	38.289	33.433	24.920	0.00	0.00
ATOM	7714	HG22	VAL	X	507	40.066	33.341	25.060	0.00	0.00
ATOM	7715	HG23	VAL	X	507	39.408	34.527	24.025	0.00	0.00
ATOM	7716	C	VAL	X	507	40.654	30.645	24.154	0.00	0.00
ATOM	7717	O	VAL	X	507	40.759	30.555	25.368	0.00	0.00
ATOM	7718	N	SER	X	508	41.683	30.695	23.373	0.00	0.00
ATOM	7719	H	SER	X	508	41.517	30.834	22.386	0.00	0.00
ATOM	7720	CA	SER	X	508	43.024	30.701	23.884	0.00	0.00
ATOM	7721	HA	SER	X	508	43.109	30.806	24.965	0.00	0.00
ATOM	7722	CB	SER	X	508	43.777	29.468	23.446	0.00	0.00
ATOM	7723	HB2	SER	X	508	43.535	28.607	24.070	0.00	0.00
ATOM	7724	HB3	SER	X	508	43.487	29.217	22.426	0.00	0.00
ATOM	7725	OG	SER	X	508	45.211	29.666	23.481	0.00	0.00
ATOM	7726	HG	SER	X	508	45.616	29.305	24.273	0.00	0.00
ATOM	7727	C	SER	X	508	43.599	32.039	23.389	0.00	0.00
ATOM	7728	O	SER	X	508	43.674	32.311	22.199	0.00	0.00
ATOM	7729	N	LEU	X	509	43.923	32.850	24.362	0.00	0.00
ATOM	7730	H	LEU	X	509	43.970	32.366	25.248	0.00	0.00
ATOM	7731	CA	LEU	X	509	44.666	34.147	24.262	0.00	0.00
ATOM	7732	HA	LEU	X	509	44.580	34.587	23.269	0.00	0.00
ATOM	7733	CB	LEU	X	509	44.113	35.144	25.264	0.00	0.00
ATOM	7734	HB2	LEU	X	509	44.455	34.946	26.280	0.00	0.00
ATOM	7735	HB3	LEU	X	509	44.516	36.126	25.014	0.00	0.00
ATOM	7736	CG	LEU	X	509	42.604	35.252	25.245	0.00	0.00
ATOM	7737	HG	LEU	X	509	42.067	34.406	25.672	0.00	0.00
ATOM	7738	CD1	LEU	X	509	42.261	36.419	26.256	0.00	0.00
ATOM	7739	HD11	LEU	X	509	42.729	37.370	26.000	0.00	0.00
ATOM	7740	HD12	LEU	X	509	41.188	36.607	26.295	0.00	0.00
ATOM	7741	HD13	LEU	X	509	42.528	36.284	27.304	0.00	0.00
ATOM	7742	CD2	LEU	X	509	41.982	35.592	23.862	0.00	0.00
ATOM	7743	HD21	LEU	X	509	42.070	34.714	23.223	0.00	0.00
ATOM	7744	HD22	LEU	X	509	40.962	35.896	24.098	0.00	0.00
ATOM	7745	HD23	LEU	X	509	42.448	36.447	23.372	0.00	0.00
ATOM	7746	C	LEU	X	509	46.136	33.976	24.477	0.00	0.00
ATOM	7747	O	LEU	X	509	46.490	33.381	25.534	0.00	0.00
ATOM	7748	N	ASP	X	510	46.944	34.485	23.489	0.00	0.00
ATOM	7749	H	ASP	X	510	46.513	35.124	22.836	0.00	0.00
ATOM	7750	CA	ASP	X	510	48.328	34.136	23.202	0.00	0.00
ATOM	7751	HA	ASP	X	510	48.845	34.126	24.162	0.00	0.00
ATOM	7752	CB	ASP	X	510	48.409	32.684	22.692	0.00	0.00
ATOM	7753	HB2	ASP	X	510	47.895	32.019	23.385	0.00	0.00
ATOM	7754	HB3	ASP	X	510	47.989	32.683	21.686	0.00	0.00
ATOM	7755	CG	ASP	X	510	49.748	32.006	22.684	0.00	0.00
ATOM	7756	OD1	ASP	X	510	50.807	32.698	22.806	0.00	0.00
ATOM	7757	OD2	ASP	X	510	49.687	30.790	22.483	0.00	0.00
ATOM	7758	C	ASP	X	510	48.894	35.284	22.289	0.00	0.00
ATOM	7759	O	ASP	X	510	48.126	36.072	21.736	0.00	0.00
ATOM	7760	N	LEU	X	511	50.156	35.375	22.049	0.00	0.00
ATOM	7761	H	LEU	X	511	50.782	34.818	22.613	0.00	0.00
ATOM	7762	CA	LEU	X	511	50.864	36.309	21.150	0.00	0.00
ATOM	7763	HA	LEU	X	511	50.590	37.328	21.424	0.00	0.00
ATOM	7764	CB	LEU	X	511	52.390	36.323	21.449	0.00	0.00
ATOM	7765	HB2	LEU	X	511	52.423	36.651	22.488	0.00	0.00
ATOM	7766	HB3	LEU	X	511	52.693	35.277	21.509	0.00	0.00
ATOM	7767	CG	LEU	X	511	53.321	37.272	20.651	0.00	0.00
ATOM	7768	HG	LEU	X	511	53.173	37.088	19.587	0.00	0.00
ATOM	7769	CD1	LEU	X	511	53.103	38.811	21.068	0.00	0.00
ATOM	7770	HD11	LEU	X	511	53.602	39.546	20.436	0.00	0.00
ATOM	7771	HD12	LEU	X	511	52.027	38.974	21.009	0.00	0.00
ATOM	7772	HD13	LEU	X	511	53.414	38.879	22.110	0.00	0.00

ATOM	7773	CD2	LEU	X	511	54.844	36.972	20.830	0.00	0.00
ATOM	7774	HD21	LEU	X	511	54.878	35.912	20.577	0.00	0.00
ATOM	7775	HD22	LEU	X	511	55.467	37.555	20.152	0.00	0.00
ATOM	7776	HD23	LEU	X	511	55.099	37.182	21.869	0.00	0.00
ATOM	7777	C	LEU	X	511	50.506	36.111	19.704	0.00	0.00
ATOM	7778	O	LEU	X	511	50.618	36.955	18.850	0.00	0.00
ATOM	7779	N	ARG	X	512	50.066	34.880	19.466	0.00	0.00
ATOM	7780	H	ARG	X	512	49.982	34.349	20.321	0.00	0.00
ATOM	7781	CA	ARG	X	512	49.445	34.400	18.220	0.00	0.00
ATOM	7782	HA	ARG	X	512	50.049	34.727	17.373	0.00	0.00
ATOM	7783	CB	ARG	X	512	49.306	32.930	18.332	0.00	0.00
ATOM	7784	HB2	ARG	X	512	48.459	32.632	18.950	0.00	0.00
ATOM	7785	HB3	ARG	X	512	48.976	32.688	17.322	0.00	0.00
ATOM	7786	CG	ARG	X	512	50.555	32.149	18.785	0.00	0.00
ATOM	7787	HG2	ARG	X	512	51.324	32.397	18.054	0.00	0.00
ATOM	7788	HG3	ARG	X	512	51.053	32.446	19.708	0.00	0.00
ATOM	7789	CD	ARG	X	512	50.319	30.632	18.987	0.00	0.00
ATOM	7790	HD2	ARG	X	512	49.974	30.628	20.021	0.00	0.00
ATOM	7791	HD3	ARG	X	512	49.501	30.330	18.332	0.00	0.00
ATOM	7792	NE	ARG	X	512	51.546	29.876	18.800	0.00	0.00
ATOM	7793	HE	ARG	X	512	51.633	29.424	17.901	0.00	0.00
ATOM	7794	CZ	ARG	X	512	52.418	29.592	19.717	0.00	0.00
ATOM	7795	NH1	ARG	X	512	52.241	29.827	21.028	0.00	0.00
ATOM	7796	HH11	ARG	X	512	51.551	30.443	21.435	0.00	0.00
ATOM	7797	HH12	ARG	X	512	52.992	29.584	21.658	0.00	0.00
ATOM	7798	NH2	ARG	X	512	53.528	28.965	19.467	0.00	0.00
ATOM	7799	HH21	ARG	X	512	53.840	28.577	18.588	0.00	0.00
ATOM	7800	HH22	ARG	X	512	54.213	28.854	20.201	0.00	0.00
ATOM	7801	C	ARG	X	512	48.074	35.048	17.845	0.00	0.00
ATOM	7802	O	ARG	X	512	47.468	35.753	18.698	0.00	0.00
ATOM	7803	N	PRO	X	513	47.517	34.982	16.636	0.00	0.00
ATOM	7804	CD	PRO	X	513	48.220	34.555	15.398	0.00	0.00
ATOM	7805	HD2	PRO	X	513	48.065	33.476	15.396	0.00	0.00
ATOM	7806	HD3	PRO	X	513	49.258	34.887	15.420	0.00	0.00
ATOM	7807	CG	PRO	X	513	47.364	35.142	14.257	0.00	0.00
ATOM	7808	HG2	PRO	X	513	47.576	34.537	13.375	0.00	0.00
ATOM	7809	HG3	PRO	X	513	47.546	36.213	14.170	0.00	0.00
ATOM	7810	CB	PRO	X	513	46.005	34.893	14.872	0.00	0.00
ATOM	7811	HB2	PRO	X	513	45.714	33.846	14.787	0.00	0.00
ATOM	7812	HB3	PRO	X	513	45.333	35.569	14.344	0.00	0.00
ATOM	7813	CA	PRO	X	513	46.124	35.241	16.363	0.00	0.00
ATOM	7814	HA	PRO	X	513	45.865	36.293	16.490	0.00	0.00
ATOM	7815	C	PRO	X	513	45.167	34.408	17.163	0.00	0.00
ATOM	7816	O	PRO	X	513	45.565	33.485	17.869	0.00	0.00
ATOM	7817	N	LEU	X	514	43.887	34.699	17.296	0.00	0.00
ATOM	7818	H	LEU	X	514	43.662	35.529	16.766	0.00	0.00
ATOM	7819	CA	LEU	X	514	42.889	34.032	18.094	0.00	0.00
ATOM	7820	HA	LEU	X	514	43.378	34.016	19.068	0.00	0.00
ATOM	7821	CB	LEU	X	514	41.587	34.797	18.084	0.00	0.00
ATOM	7822	HB2	LEU	X	514	41.758	35.873	18.112	0.00	0.00
ATOM	7823	HB3	LEU	X	514	41.167	34.614	17.095	0.00	0.00
ATOM	7824	CG	LEU	X	514	40.611	34.407	19.145	0.00	0.00
ATOM	7825	HG	LEU	X	514	40.492	33.328	19.248	0.00	0.00
ATOM	7826	CD1	LEU	X	514	41.117	34.712	20.586	0.00	0.00
ATOM	7827	HD11	LEU	X	514	40.252	34.864	21.232	0.00	0.00
ATOM	7828	HD12	LEU	X	514	41.661	33.827	20.913	0.00	0.00
ATOM	7829	HD13	LEU	X	514	41.772	35.578	20.682	0.00	0.00
ATOM	7830	CD2	LEU	X	514	39.224	34.930	18.841	0.00	0.00
ATOM	7831	HD21	LEU	X	514	39.201	35.747	18.120	0.00	0.00
ATOM	7832	HD22	LEU	X	514	38.602	34.108	18.488	0.00	0.00
ATOM	7833	HD23	LEU	X	514	38.722	35.291	19.739	0.00	0.00
ATOM	7834	C	LEU	X	514	42.789	32.545	17.734	0.00	0.00
ATOM	7835	O	LEU	X	514	42.708	32.137	16.570	0.00	0.00
ATOM	7836	N	GLU	X	515	42.840	31.690	18.788	0.00	0.00
ATOM	7837	H	GLU	X	515	42.846	32.186	19.667	0.00	0.00
ATOM	7838	CA	GLU	X	515	42.455	30.279	18.683	0.00	0.00
ATOM	7839	HA	GLU	X	515	42.279	29.917	17.670	0.00	0.00
ATOM	7840	CB	GLU	X	515	43.642	29.466	19.247	0.00	0.00
ATOM	7841	HB2	GLU	X	515	44.527	29.948	18.832	0.00	0.00
ATOM	7842	HB3	GLU	X	515	43.504	29.531	20.327	0.00	0.00

ATOM	7843	CG	GLU	X	515	43.660	28.045	18.795	0.00	0.00
ATOM	7844	HG2	GLU	X	515	42.849	27.532	19.313	0.00	0.00
ATOM	7845	HG3	GLU	X	515	43.488	27.993	17.720	0.00	0.00
ATOM	7846	CD	GLU	X	515	44.921	27.261	19.114	0.00	0.00
ATOM	7847	OE1	GLU	X	515	45.140	26.820	20.246	0.00	0.00
ATOM	7848	OE2	GLU	X	515	45.857	27.166	18.261	0.00	0.00
ATOM	7849	C	GLU	X	515	41.171	30.023	19.441	0.00	0.00
ATOM	7850	O	GLU	X	515	40.963	30.726	20.419	0.00	0.00
ATOM	7851	N	VAL	X	516	40.423	29.003	18.986	0.00	0.00
ATOM	7852	H	VAL	X	516	40.619	28.611	18.076	0.00	0.00
ATOM	7853	CA	VAL	X	516	39.163	28.596	19.642	0.00	0.00
ATOM	7854	HA	VAL	X	516	39.011	29.118	20.586	0.00	0.00
ATOM	7855	CB	VAL	X	516	37.899	28.962	18.792	0.00	0.00
ATOM	7856	HB	VAL	X	516	37.737	28.335	17.915	0.00	0.00
ATOM	7857	CG1	VAL	X	516	36.620	28.720	19.659	0.00	0.00
ATOM	7858	HG11	VAL	X	516	35.756	29.185	19.184	0.00	0.00
ATOM	7859	HG12	VAL	X	516	36.449	27.648	19.762	0.00	0.00
ATOM	7860	HG13	VAL	X	516	36.739	29.044	20.693	0.00	0.00
ATOM	7861	CG2	VAL	X	516	38.005	30.454	18.449	0.00	0.00
ATOM	7862	HG21	VAL	X	516	38.270	31.033	19.334	0.00	0.00
ATOM	7863	HG22	VAL	X	516	38.714	30.673	17.651	0.00	0.00
ATOM	7864	HG23	VAL	X	516	37.009	30.748	18.119	0.00	0.00
ATOM	7865	C	VAL	X	516	39.228	27.086	19.744	0.00	0.00
ATOM	7866	O	VAL	X	516	39.558	26.394	18.802	0.00	0.00
ATOM	7867	N	ARG	X	517	38.821	26.684	20.948	0.00	0.00
ATOM	7868	H	ARG	X	517	38.396	27.393	21.528	0.00	0.00
ATOM	7869	CA	ARG	X	517	38.795	25.346	21.517	0.00	0.00
ATOM	7870	HA	ARG	X	517	38.971	24.611	20.731	0.00	0.00
ATOM	7871	CB	ARG	X	517	39.955	25.235	22.535	0.00	0.00
ATOM	7872	HB2	ARG	X	517	39.679	25.845	23.395	0.00	0.00
ATOM	7873	HB3	ARG	X	517	40.049	24.180	22.794	0.00	0.00
ATOM	7874	CG	ARG	X	517	41.423	25.524	22.070	0.00	0.00
ATOM	7875	HG2	ARG	X	517	41.681	24.790	21.307	0.00	0.00
ATOM	7876	HG3	ARG	X	517	41.491	26.540	21.682	0.00	0.00
ATOM	7877	CD	ARG	X	517	42.366	25.317	23.187	0.00	0.00
ATOM	7878	HD2	ARG	X	517	42.059	25.852	24.086	0.00	0.00
ATOM	7879	HD3	ARG	X	517	42.441	24.241	23.345	0.00	0.00
ATOM	7880	NE	ARG	X	517	43.743	25.627	22.733	0.00	0.00
ATOM	7881	HE	ARG	X	517	43.966	25.508	21.755	0.00	0.00
ATOM	7882	CZ	ARG	X	517	44.689	26.200	23.478	0.00	0.00
ATOM	7883	NH1	ARG	X	517	44.590	26.364	24.758	0.00	0.00
ATOM	7884	HH11	ARG	X	517	43.871	25.900	25.294	0.00	0.00
ATOM	7885	HH12	ARG	X	517	45.285	26.973	25.167	0.00	0.00
ATOM	7886	NH2	ARG	X	517	45.753	26.701	22.864	0.00	0.00
ATOM	7887	HH21	ARG	X	517	45.833	26.618	21.861	0.00	0.00
ATOM	7888	HH22	ARG	X	517	46.469	27.222	23.350	0.00	0.00
ATOM	7889	C	ARG	X	517	37.447	24.922	22.122	0.00	0.00
ATOM	7890	O	ARG	X	517	36.603	25.769	22.403	0.00	0.00
ATOM	7891	N	ARG	X	518	37.213	23.648	22.475	0.00	0.00
ATOM	7892	H	ARG	X	518	38.038	23.087	22.321	0.00	0.00
ATOM	7893	CA	ARG	X	518	35.936	23.085	22.847	0.00	0.00
ATOM	7894	HA	ARG	X	518	35.246	23.840	23.224	0.00	0.00
ATOM	7895	CB	ARG	X	518	35.163	22.578	21.601	0.00	0.00
ATOM	7896	HB2	ARG	X	518	34.163	22.326	21.954	0.00	0.00
ATOM	7897	HB3	ARG	X	518	35.095	23.381	20.866	0.00	0.00
ATOM	7898	CG	ARG	X	518	35.910	21.297	20.996	0.00	0.00
ATOM	7899	HG2	ARG	X	518	36.918	21.593	20.706	0.00	0.00
ATOM	7900	HG3	ARG	X	518	35.852	20.488	21.725	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.139	20.889	19.687	0.00	0.00
ATOM	7902	HD2	ARG	X	518	35.177	21.628	18.886	0.00	0.00
ATOM	7903	HD3	ARG	X	518	35.785	20.135	19.236	0.00	0.00
ATOM	7904	NE	ARG	X	518	33.761	20.495	19.861	0.00	0.00
ATOM	7905	HE	ARG	X	518	33.667	19.599	20.318	0.00	0.00
ATOM	7906	CZ	ARG	X	518	32.712	21.230	19.717	0.00	0.00
ATOM	7907	NH1	ARG	X	518	32.672	22.424	19.185	0.00	0.00
ATOM	7908	HH11	ARG	X	518	33.431	22.788	18.627	0.00	0.00
ATOM	7909	HH12	ARG	X	518	31.803	22.922	19.057	0.00	0.00
ATOM	7910	NH2	ARG	X	518	31.563	20.684	20.069	0.00	0.00
ATOM	7911	HH21	ARG	X	518	31.479	19.697	20.266	0.00	0.00
ATOM	7912	HH22	ARG	X	518	30.700	21.207	20.020	0.00	0.00

ATOM	7913	C	ARG	X	518	36.002	21.988	23.880	0.00	0.00
ATOM	7914	O	ARG	X	518	37.037	21.302	24.015	0.00	0.00
ATOM	7915	N	GLY	X	519	34.950	21.879	24.668	0.00	0.00
ATOM	7916	H	GLY	X	519	34.262	22.609	24.789	0.00	0.00
ATOM	7917	CA	GLY	X	519	34.981	20.857	25.722	0.00	0.00
ATOM	7918	HA2	GLY	X	519	33.976	20.730	26.060	0.00	0.00
ATOM	7919	HA3	GLY	X	519	35.261	19.916	25.296	0.00	0.00
ATOM	7920	C	GLY	X	519	35.739	21.295	27.045	0.00	0.00
ATOM	7921	O	GLY	X	519	36.308	20.403	27.707	0.00	0.00
ATOM	7922	N	LEU	X	520	35.617	22.529	27.475	0.00	0.00
ATOM	7923	H	LEU	X	520	35.079	23.111	26.849	0.00	0.00
ATOM	7924	CA	LEU	X	520	36.337	23.216	28.610	0.00	0.00
ATOM	7925	HA	LEU	X	520	37.379	23.415	28.359	0.00	0.00
ATOM	7926	CB	LEU	X	520	35.572	24.532	28.867	0.00	0.00
ATOM	7927	HB2	LEU	X	520	35.598	25.146	27.966	0.00	0.00
ATOM	7928	HB3	LEU	X	520	34.524	24.395	29.133	0.00	0.00
ATOM	7929	CG	LEU	X	520	36.356	25.335	29.948	0.00	0.00
ATOM	7930	HG	LEU	X	520	36.343	24.760	30.874	0.00	0.00
ATOM	7931	CD1	LEU	X	520	37.811	25.662	29.559	0.00	0.00
ATOM	7932	HD11	LEU	X	520	38.451	24.779	29.555	0.00	0.00
ATOM	7933	HD12	LEU	X	520	37.885	25.999	28.525	0.00	0.00
ATOM	7934	HD13	LEU	X	520	38.175	26.351	30.322	0.00	0.00
ATOM	7935	CD2	LEU	X	520	35.715	26.663	30.192	0.00	0.00
ATOM	7936	HD21	LEU	X	520	34.639	26.536	30.307	0.00	0.00
ATOM	7937	HD22	LEU	X	520	36.162	27.299	30.956	0.00	0.00
ATOM	7938	HD23	LEU	X	520	35.861	27.275	29.302	0.00	0.00
ATOM	7939	C	LEU	X	520	36.300	22.285	29.928	0.00	0.00
ATOM	7940	O	LEU	X	520	35.328	22.194	30.633	0.00	0.00
ATOM	7941	N	ARG	X	521	37.454	21.764	30.275	0.00	0.00
ATOM	7942	H	ARG	X	521	38.226	21.864	29.631	0.00	0.00
ATOM	7943	CA	ARG	X	521	37.745	20.973	31.536	0.00	0.00
ATOM	7944	HA	ARG	X	521	38.739	20.525	31.528	0.00	0.00
ATOM	7945	CB	ARG	X	521	37.681	21.859	32.776	0.00	0.00
ATOM	7946	HB2	ARG	X	521	37.744	22.898	32.454	0.00	0.00
ATOM	7947	HB3	ARG	X	521	36.673	21.819	33.190	0.00	0.00
ATOM	7948	CG	ARG	X	521	38.632	21.551	33.886	0.00	0.00
ATOM	7949	HG2	ARG	X	521	38.382	22.332	34.605	0.00	0.00
ATOM	7950	HG3	ARG	X	521	38.493	20.553	34.301	0.00	0.00
ATOM	7951	CD	ARG	X	521	40.044	21.862	33.404	0.00	0.00
ATOM	7952	HD2	ARG	X	521	40.192	21.644	32.346	0.00	0.00
ATOM	7953	HD3	ARG	X	521	40.152	22.936	33.557	0.00	0.00
ATOM	7954	NE	ARG	X	521	41.096	21.155	34.052	0.00	0.00
ATOM	7955	HE	ARG	X	521	41.105	21.314	35.049	0.00	0.00
ATOM	7956	CZ	ARG	X	521	42.219	20.722	33.478	0.00	0.00
ATOM	7957	NH1	ARG	X	521	42.457	20.780	32.197	0.00	0.00
ATOM	7958	HH11	ARG	X	521	41.838	21.069	31.453	0.00	0.00
ATOM	7959	HH12	ARG	X	521	43.363	20.436	31.913	0.00	0.00
ATOM	7960	NH2	ARG	X	521	43.191	20.191	34.224	0.00	0.00
ATOM	7961	HH21	ARG	X	521	43.018	20.133	35.218	0.00	0.00
ATOM	7962	HH22	ARG	X	521	44.069	19.833	33.878	0.00	0.00
ATOM	7963	C	ARG	X	521	36.809	19.785	31.811	0.00	0.00
ATOM	7964	O	ARG	X	521	36.604	19.350	32.965	0.00	0.00
ATOM	7965	N	ALA	X	522	36.275	19.095	30.791	0.00	0.00
ATOM	7966	H	ALA	X	522	36.553	19.369	29.859	0.00	0.00
ATOM	7967	CA	ALA	X	522	35.209	18.190	31.001	0.00	0.00
ATOM	7968	HA	ALA	X	522	34.543	18.630	31.744	0.00	0.00
ATOM	7969	CB	ALA	X	522	34.449	18.208	29.685	0.00	0.00
ATOM	7970	HB1	ALA	X	522	34.355	19.280	29.509	0.00	0.00
ATOM	7971	HB2	ALA	X	522	34.979	17.821	28.814	0.00	0.00
ATOM	7972	HB3	ALA	X	522	33.449	17.774	29.676	0.00	0.00
ATOM	7973	C	ALA	X	522	35.777	16.821	31.506	0.00	0.00
ATOM	7974	O	ALA	X	522	34.934	15.952	31.908	0.00	0.00
ATOM	7975	N	GLN	X	523	37.079	16.469	31.373	0.00	0.00
ATOM	7976	H	GLN	X	523	37.784	17.174	31.210	0.00	0.00
ATOM	7977	CA	GLN	X	523	37.575	15.170	31.834	0.00	0.00
ATOM	7978	HA	GLN	X	523	36.942	14.284	31.786	0.00	0.00
ATOM	7979	CB	GLN	X	523	38.823	14.689	31.005	0.00	0.00
ATOM	7980	HB2	GLN	X	523	39.628	15.409	30.861	0.00	0.00
ATOM	7981	HB3	GLN	X	523	39.238	13.823	31.520	0.00	0.00
ATOM	7982	CG	GLN	X	523	38.363	14.179	29.638	0.00	0.00

ATOM	7983	HG2	GLN	X	523	39.279	13.995	29.077	0.00	0.00
ATOM	7984	HG3	GLN	X	523	37.747	13.302	29.835	0.00	0.00
ATOM	7985	CD	GLN	X	523	37.606	15.206	28.768	0.00	0.00
ATOM	7986	OE1	GLN	X	523	36.480	14.912	28.446	0.00	0.00
ATOM	7987	NE2	GLN	X	523	38.202	16.309	28.250	0.00	0.00
ATOM	7988	HE21	GLN	X	523	37.820	16.705	27.403	0.00	0.00
ATOM	7989	HE22	GLN	X	523	39.122	16.583	28.565	0.00	0.00
ATOM	7990	C	GLN	X	523	37.983	15.251	33.351	0.00	0.00
ATOM	7991	O	GLN	X	523	37.623	14.379	34.135	0.00	0.00
ATOM	7992	N	ALA	X	524	38.748	16.296	33.649	0.00	0.00
ATOM	7993	H	ALA	X	524	38.990	16.946	32.915	0.00	0.00
ATOM	7994	CA	ALA	X	524	39.205	16.638	35.049	0.00	0.00
ATOM	7995	HA	ALA	X	524	39.848	15.829	35.396	0.00	0.00
ATOM	7996	CB	ALA	X	524	40.102	17.890	35.008	0.00	0.00
ATOM	7997	HB1	ALA	X	524	40.018	18.379	35.979	0.00	0.00
ATOM	7998	HB2	ALA	X	524	41.152	17.639	34.865	0.00	0.00
ATOM	7999	HB3	ALA	X	524	39.781	18.468	34.141	0.00	0.00
ATOM	8000	C	ALA	X	524	38.008	16.807	36.015	0.00	0.00
ATOM	8001	O	ALA	X	524	37.956	16.008	36.907	0.00	0.00
ATOM	8002	N	CYX	X	525	37.073	17.771	35.747	0.00	0.00
ATOM	8003	H	CYX	X	525	37.315	18.535	35.131	0.00	0.00
ATOM	8004	CA	CYX	X	525	36.105	18.038	36.764	0.00	0.00
ATOM	8005	HA	CYX	X	525	36.629	18.108	37.717	0.00	0.00
ATOM	8006	CB	CYX	X	525	35.433	19.383	36.503	0.00	0.00
ATOM	8007	HB2	CYX	X	525	34.702	19.380	35.694	0.00	0.00
ATOM	8008	HB3	CYX	X	525	35.025	19.643	37.479	0.00	0.00
ATOM	8009	SG	CYX	X	525	36.629	20.666	36.164	0.00	0.00
ATOM	8010	C	CYX	X	525	34.953	16.988	36.816	0.00	0.00
ATOM	8011	O	CYX	X	525	34.320	16.967	37.901	0.00	0.00
ATOM	8012	N	ALA	X	526	34.757	16.160	35.809	0.00	0.00
ATOM	8013	H	ALA	X	526	35.521	16.107	35.150	0.00	0.00
ATOM	8014	CA	ALA	X	526	33.771	15.083	35.932	0.00	0.00
ATOM	8015	HA	ALA	X	526	32.866	15.607	36.239	0.00	0.00
ATOM	8016	CB	ALA	X	526	33.599	14.427	34.603	0.00	0.00
ATOM	8017	HB1	ALA	X	526	34.514	14.126	34.092	0.00	0.00
ATOM	8018	HB2	ALA	X	526	33.108	13.466	34.756	0.00	0.00
ATOM	8019	HB3	ALA	X	526	33.086	15.124	33.942	0.00	0.00
ATOM	8020	C	ALA	X	526	34.101	14.023	36.935	0.00	0.00
ATOM	8021	O	ALA	X	526	33.294	13.700	37.817	0.00	0.00
ATOM	8022	N	PHE	X	527	35.349	13.503	36.912	0.00	0.00
ATOM	8023	H	PHE	X	527	35.973	13.811	36.180	0.00	0.00
ATOM	8024	CA	PHE	X	527	36.042	12.903	38.080	0.00	0.00
ATOM	8025	HA	PHE	X	527	35.682	11.900	38.309	0.00	0.00
ATOM	8026	CB	PHE	X	527	37.504	12.720	37.699	0.00	0.00
ATOM	8027	HB2	PHE	X	527	37.451	11.899	36.984	0.00	0.00
ATOM	8028	HB3	PHE	X	527	37.783	13.565	37.069	0.00	0.00
ATOM	8029	CG	PHE	X	527	38.449	12.535	38.809	0.00	0.00
ATOM	8030	CD1	PHE	X	527	38.457	11.382	39.597	0.00	0.00
ATOM	8031	HD1	PHE	X	527	37.909	10.506	39.282	0.00	0.00
ATOM	8032	CE1	PHE	X	527	39.316	11.250	40.673	0.00	0.00
ATOM	8033	HE1	PHE	X	527	39.335	10.342	41.256	0.00	0.00
ATOM	8034	CZ	PHE	X	527	40.075	12.310	41.079	0.00	0.00
ATOM	8035	HZ	PHE	X	527	40.704	12.070	41.924	0.00	0.00
ATOM	8036	CE2	PHE	X	527	39.977	13.475	40.306	0.00	0.00
ATOM	8037	HE2	PHE	X	527	40.577	14.314	40.626	0.00	0.00
ATOM	8038	CD2	PHE	X	527	39.180	13.635	39.200	0.00	0.00
ATOM	8039	HD2	PHE	X	527	39.063	14.595	38.719	0.00	0.00
ATOM	8040	C	PHE	X	527	35.814	13.719	39.375	0.00	0.00
ATOM	8041	O	PHE	X	527	35.091	13.192	40.213	0.00	0.00
ATOM	8042	N	TRP	X	528	36.251	14.958	39.500	0.00	0.00
ATOM	8043	H	TRP	X	528	36.731	15.344	38.700	0.00	0.00
ATOM	8044	CA	TRP	X	528	36.170	15.703	40.765	0.00	0.00
ATOM	8045	HA	TRP	X	528	36.738	15.104	41.477	0.00	0.00
ATOM	8046	CB	TRP	X	528	36.820	17.045	40.739	0.00	0.00
ATOM	8047	HB2	TRP	X	528	36.569	17.672	39.884	0.00	0.00
ATOM	8048	HB3	TRP	X	528	36.551	17.607	41.633	0.00	0.00
ATOM	8049	CG	TRP	X	528	38.330	16.983	40.698	0.00	0.00
ATOM	8050	CD1	TRP	X	528	39.151	17.101	39.713	0.00	0.00
ATOM	8051	HD1	TRP	X	528	38.826	17.127	38.684	0.00	0.00
ATOM	8052	NE1	TRP	X	528	40.464	16.928	40.120	0.00	0.00

ATOM	8053	HE1	TRP	X	528	41.208	17.210	39.499	0.00	0.00
ATOM	8054	CE2	TRP	X	528	40.573	17.029	41.415	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	41.660	17.000	42.329	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	42.673	17.106	41.970	0.00	0.00
ATOM	8057	CH2	TRP	X	528	41.417	17.090	43.694	0.00	0.00
ATOM	8058	HH2	TRP	X	528	42.203	17.245	44.419	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	40.098	17.078	44.190	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	39.836	16.976	45.233	0.00	0.00
ATOM	8061	CE3	TRP	X	528	38.994	17.038	43.291	0.00	0.00
ATOM	8062	HE3	TRP	X	528	38.013	17.116	43.736	0.00	0.00
ATOM	8063	CD2	TRP	X	528	39.228	17.019	41.882	0.00	0.00
ATOM	8064	C	TRP	X	528	34.694	15.949	41.308	0.00	0.00
ATOM	8065	O	TRP	X	528	34.520	16.256	42.526	0.00	0.00
ATOM	8066	N	ASN	X	529	33.698	15.895	40.459	0.00	0.00
ATOM	8067	H	ASN	X	529	33.914	15.675	39.497	0.00	0.00
ATOM	8068	CA	ASN	X	529	32.254	16.009	40.806	0.00	0.00
ATOM	8069	HA	ASN	X	529	32.204	16.627	41.702	0.00	0.00
ATOM	8070	CB	ASN	X	529	31.766	16.916	39.647	0.00	0.00
ATOM	8071	HB2	ASN	X	529	32.322	17.851	39.577	0.00	0.00
ATOM	8072	HB3	ASN	X	529	31.846	16.378	38.702	0.00	0.00
ATOM	8073	CG	ASN	X	529	30.281	17.146	39.742	0.00	0.00
ATOM	8074	OD1	ASN	X	529	29.549	16.593	38.957	0.00	0.00
ATOM	8075	ND2	ASN	X	529	29.863	18.036	40.660	0.00	0.00
ATOM	8076	HD21	ASN	X	529	28.893	18.132	40.924	0.00	0.00
ATOM	8077	HD22	ASN	X	529	30.567	18.424	41.272	0.00	0.00
ATOM	8078	C	ASN	X	529	31.522	14.650	41.122	0.00	0.00
ATOM	8079	O	ASN	X	529	30.785	14.449	42.104	0.00	0.00
ATOM	8080	N	ARG	X	530	31.669	13.661	40.261	0.00	0.00
ATOM	8081	H	ARG	X	530	32.139	13.923	39.406	0.00	0.00
ATOM	8082	CA	ARG	X	530	30.929	12.365	40.291	0.00	0.00
ATOM	8083	HA	ARG	X	530	29.965	12.528	40.772	0.00	0.00
ATOM	8084	CB	ARG	X	530	30.754	11.946	38.874	0.00	0.00
ATOM	8085	HB2	ARG	X	530	31.705	11.744	38.383	0.00	0.00
ATOM	8086	HB3	ARG	X	530	30.356	10.932	38.915	0.00	0.00
ATOM	8087	CG	ARG	X	530	29.971	12.929	37.875	0.00	0.00
ATOM	8088	HG2	ARG	X	530	28.951	12.966	38.258	0.00	0.00
ATOM	8089	HG3	ARG	X	530	30.461	13.901	37.824	0.00	0.00
ATOM	8090	CD	ARG	X	530	30.162	12.307	36.441	0.00	0.00
ATOM	8091	HD2	ARG	X	530	31.242	12.376	36.310	0.00	0.00
ATOM	8092	HD3	ARG	X	530	29.765	11.294	36.506	0.00	0.00
ATOM	8093	NE	ARG	X	530	29.565	13.247	35.433	0.00	0.00
ATOM	8094	HE	ARG	X	530	29.158	14.071	35.852	0.00	0.00
ATOM	8095	CZ	ARG	X	530	29.733	13.218	34.122	0.00	0.00
ATOM	8096	NH1	ARG	X	530	30.386	12.235	33.632	0.00	0.00
ATOM	8097	HH11	ARG	X	530	30.889	11.650	34.283	0.00	0.00
ATOM	8098	HH12	ARG	X	530	30.784	12.230	32.704	0.00	0.00
ATOM	8099	NH2	ARG	X	530	29.260	14.104	33.448	0.00	0.00
ATOM	8100	HH21	ARG	X	530	28.724	14.775	33.979	0.00	0.00
ATOM	8101	HH22	ARG	X	530	29.220	13.998	32.444	0.00	0.00
ATOM	8102	C	ARG	X	530	31.663	11.266	41.149	0.00	0.00
ATOM	8103	O	ARG	X	530	30.975	10.587	41.916	0.00	0.00
ATOM	8104	N	PHE	X	531	33.009	11.210	41.159	0.00	0.00
ATOM	8105	H	PHE	X	531	33.507	11.854	40.562	0.00	0.00
ATOM	8106	CA	PHE	X	531	33.804	10.060	41.628	0.00	0.00
ATOM	8107	HA	PHE	X	531	33.241	9.211	42.015	0.00	0.00
ATOM	8108	CB	PHE	X	531	34.689	9.652	40.480	0.00	0.00
ATOM	8109	HB2	PHE	X	531	34.148	9.525	39.543	0.00	0.00
ATOM	8110	HB3	PHE	X	531	35.395	10.480	40.413	0.00	0.00
ATOM	8111	CG	PHE	X	531	35.479	8.423	40.747	0.00	0.00
ATOM	8112	CD1	PHE	X	531	36.816	8.581	41.290	0.00	0.00
ATOM	8113	HD1	PHE	X	531	37.233	9.546	41.537	0.00	0.00
ATOM	8114	CE1	PHE	X	531	37.495	7.449	41.630	0.00	0.00
ATOM	8115	HE1	PHE	X	531	38.425	7.473	42.180	0.00	0.00
ATOM	8116	CZ	PHE	X	531	36.973	6.229	41.294	0.00	0.00
ATOM	8117	HZ	PHE	X	531	37.558	5.346	41.505	0.00	0.00
ATOM	8118	CE2	PHE	X	531	35.687	6.004	40.807	0.00	0.00
ATOM	8119	HE2	PHE	X	531	35.254	5.018	40.736	0.00	0.00
ATOM	8120	CD2	PHE	X	531	34.952	7.126	40.491	0.00	0.00
ATOM	8121	HD2	PHE	X	531	33.965	6.986	40.076	0.00	0.00
ATOM	8122	C	PHE	X	531	34.628	10.469	42.842	0.00	0.00

ATOM	8123	O	PHE	X	531	34.668	9.708	43.831	0.00	0.00
ATOM	8124	N	LEU	X	532	35.348	11.562	42.807	0.00	0.00
ATOM	8125	H	LEU	X	532	35.414	11.989	41.894	0.00	0.00
ATOM	8126	CA	LEU	X	532	36.279	11.862	43.905	0.00	0.00
ATOM	8127	HA	LEU	X	532	37.049	11.091	43.917	0.00	0.00
ATOM	8128	CB	LEU	X	532	37.032	13.198	43.589	0.00	0.00
ATOM	8129	HB2	LEU	X	532	37.299	13.251	42.534	0.00	0.00
ATOM	8130	HB3	LEU	X	532	36.508	14.152	43.651	0.00	0.00
ATOM	8131	CG	LEU	X	532	38.373	13.438	44.300	0.00	0.00
ATOM	8132	HG	LEU	X	532	39.021	13.868	43.536	0.00	0.00
ATOM	8133	CD1	LEU	X	532	38.142	14.379	45.507	0.00	0.00
ATOM	8134	HD11	LEU	X	532	39.108	14.750	45.850	0.00	0.00
ATOM	8135	HD12	LEU	X	532	37.614	15.309	45.296	0.00	0.00
ATOM	8136	HD13	LEU	X	532	37.709	13.853	46.357	0.00	0.00
ATOM	8137	CD2	LEU	X	532	39.002	12.125	44.809	0.00	0.00
ATOM	8138	HD21	LEU	X	532	39.981	12.344	45.237	0.00	0.00
ATOM	8139	HD22	LEU	X	532	38.359	11.499	45.427	0.00	0.00
ATOM	8140	HD23	LEU	X	532	39.220	11.506	43.939	0.00	0.00
ATOM	8141	C	LEU	X	532	35.476	11.957	45.234	0.00	0.00
ATOM	8142	O	LEU	X	532	35.868	11.365	46.262	0.00	0.00
ATOM	8143	N	PRO	X	533	34.313	12.699	45.338	0.00	0.00
ATOM	8144	CD	PRO	X	533	33.775	13.642	44.415	0.00	0.00
ATOM	8145	HD2	PRO	X	533	33.688	13.188	43.428	0.00	0.00
ATOM	8146	HD3	PRO	X	533	34.437	14.502	44.315	0.00	0.00
ATOM	8147	CG	PRO	X	533	32.525	14.145	44.962	0.00	0.00
ATOM	8148	HG2	PRO	X	533	31.738	13.405	44.818	0.00	0.00
ATOM	8149	HG3	PRO	X	533	32.308	15.100	44.484	0.00	0.00
ATOM	8150	CB	PRO	X	533	32.729	14.090	46.455	0.00	0.00
ATOM	8151	HB2	PRO	X	533	31.761	14.011	46.949	0.00	0.00
ATOM	8152	HB3	PRO	X	533	33.245	14.968	46.845	0.00	0.00
ATOM	8153	CA	PRO	X	533	33.623	12.861	46.616	0.00	0.00
ATOM	8154	HA	PRO	X	533	34.324	12.936	47.447	0.00	0.00
ATOM	8155	C	PRO	X	533	33.052	11.549	47.032	0.00	0.00
ATOM	8156	O	PRO	X	533	32.846	11.424	48.270	0.00	0.00
ATOM	8157	N	LYS	X	534	32.778	10.549	46.124	0.00	0.00
ATOM	8158	H	LYS	X	534	33.027	10.741	45.164	0.00	0.00
ATOM	8159	CA	LYS	X	534	32.201	9.274	46.405	0.00	0.00
ATOM	8160	HA	LYS	X	534	31.319	9.360	47.039	0.00	0.00
ATOM	8161	CB	LYS	X	534	31.688	8.812	44.987	0.00	0.00
ATOM	8162	HB2	LYS	X	534	31.075	9.605	44.560	0.00	0.00
ATOM	8163	HB3	LYS	X	534	32.565	8.634	44.365	0.00	0.00
ATOM	8164	CG	LYS	X	534	30.932	7.495	44.969	0.00	0.00
ATOM	8165	HG2	LYS	X	534	31.479	6.688	45.457	0.00	0.00
ATOM	8166	HG3	LYS	X	534	29.989	7.623	45.501	0.00	0.00
ATOM	8167	CD	LYS	X	534	30.612	7.180	43.523	0.00	0.00
ATOM	8168	HD2	LYS	X	534	30.023	8.034	43.188	0.00	0.00
ATOM	8169	HD3	LYS	X	534	31.564	7.026	43.016	0.00	0.00
ATOM	8170	CE	LYS	X	534	29.792	5.843	43.333	0.00	0.00
ATOM	8171	HE2	LYS	X	534	30.357	5.182	43.989	0.00	0.00
ATOM	8172	HE3	LYS	X	534	28.789	5.955	43.745	0.00	0.00
ATOM	8173	NZ	LYS	X	534	29.776	5.420	41.959	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	29.248	4.562	41.888	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	29.343	6.117	41.369	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	30.700	5.160	41.647	0.00	0.00
ATOM	8177	C	LYS	X	534	33.207	8.279	47.039	0.00	0.00
ATOM	8178	O	LYS	X	534	32.851	7.341	47.741	0.00	0.00
ATOM	8179	N	LEU	X	535	34.533	8.482	46.941	0.00	0.00
ATOM	8180	H	LEU	X	535	34.886	9.313	46.488	0.00	0.00
ATOM	8181	CA	LEU	X	535	35.615	7.684	47.681	0.00	0.00
ATOM	8182	HA	LEU	X	535	35.110	6.874	48.207	0.00	0.00
ATOM	8183	CB	LEU	X	535	36.824	7.326	46.707	0.00	0.00
ATOM	8184	HB2	LEU	X	535	37.056	8.120	45.997	0.00	0.00
ATOM	8185	HB3	LEU	X	535	37.723	7.148	47.298	0.00	0.00
ATOM	8186	CG	LEU	X	535	36.541	6.043	45.863	0.00	0.00
ATOM	8187	HG	LEU	X	535	36.586	5.158	46.498	0.00	0.00
ATOM	8188	CD1	LEU	X	535	35.286	6.080	44.973	0.00	0.00
ATOM	8189	HD11	LEU	X	535	35.330	6.910	44.268	0.00	0.00
ATOM	8190	HD12	LEU	X	535	35.176	5.217	44.316	0.00	0.00
ATOM	8191	HD13	LEU	X	535	34.359	6.201	45.533	0.00	0.00
ATOM	8192	CD2	LEU	X	535	37.774	5.858	44.924	0.00	0.00

ATOM	8193	HD21	LEU	X	535	37.519	5.123	44.161	0.00	0.00
ATOM	8194	HD22	LEU	X	535	37.946	6.792	44.389	0.00	0.00
ATOM	8195	HD23	LEU	X	535	38.633	5.589	45.538	0.00	0.00
ATOM	8196	C	LEU	X	535	36.065	8.349	49.009	0.00	0.00
ATOM	8197	O	LEU	X	535	36.445	7.667	49.938	0.00	0.00
ATOM	8198	N	LEU	X	536	36.054	9.704	48.969	0.00	0.00
ATOM	8199	H	LEU	X	536	36.030	10.219	48.100	0.00	0.00
ATOM	8200	CA	LEU	X	536	36.439	10.548	50.109	0.00	0.00
ATOM	8201	HA	LEU	X	536	37.398	10.247	50.531	0.00	0.00
ATOM	8202	CB	LEU	X	536	36.645	12.008	49.524	0.00	0.00
ATOM	8203	HB2	LEU	X	536	37.142	12.042	48.554	0.00	0.00
ATOM	8204	HB3	LEU	X	536	35.630	12.334	49.302	0.00	0.00
ATOM	8205	CG	LEU	X	536	37.321	13.017	50.471	0.00	0.00
ATOM	8206	HG	LEU	X	536	36.537	13.261	51.188	0.00	0.00
ATOM	8207	CD1	LEU	X	536	38.564	12.523	51.192	0.00	0.00
ATOM	8208	HD11	LEU	X	536	38.921	13.248	51.924	0.00	0.00
ATOM	8209	HD12	LEU	X	536	38.418	11.616	51.778	0.00	0.00
ATOM	8210	HD13	LEU	X	536	39.405	12.459	50.502	0.00	0.00
ATOM	8211	CD2	LEU	X	536	37.690	14.284	49.720	0.00	0.00
ATOM	8212	HD21	LEU	X	536	38.477	14.815	50.254	0.00	0.00
ATOM	8213	HD22	LEU	X	536	38.119	14.055	48.744	0.00	0.00
ATOM	8214	HD23	LEU	X	536	36.804	14.884	49.511	0.00	0.00
ATOM	8215	C	LEU	X	536	35.494	10.553	51.331	0.00	0.00
ATOM	8216	O	LEU	X	536	35.978	10.252	52.458	0.00	0.00
ATOM	8217	N	SER	X	537	34.164	10.591	51.069	0.00	0.00
ATOM	8218	H	SER	X	537	33.917	10.994	50.176	0.00	0.00
ATOM	8219	CA	SER	X	537	33.175	10.364	52.020	0.00	0.00
ATOM	8220	HA	SER	X	537	33.092	11.187	52.730	0.00	0.00
ATOM	8221	CB	SER	X	537	31.811	10.546	51.302	0.00	0.00
ATOM	8222	HB2	SER	X	537	30.962	10.387	51.967	0.00	0.00
ATOM	8223	HB3	SER	X	537	31.694	11.550	50.894	0.00	0.00
ATOM	8224	OG	SER	X	537	31.609	9.686	50.217	0.00	0.00
ATOM	8225	HG	SER	X	537	31.399	10.309	49.517	0.00	0.00
ATOM	8226	C	SER	X	537	33.330	9.031	52.655	0.00	0.00
ATOM	8227	O	SER	X	537	33.105	8.916	53.900	0.00	0.00
ATOM	8228	N	ALA	X	538	33.626	7.981	51.857	0.00	0.00
ATOM	8229	H	ALA	X	538	33.703	8.296	50.901	0.00	0.00
ATOM	8230	CA	ALA	X	538	33.512	6.528	52.114	0.00	0.00
ATOM	8231	HA	ALA	X	538	32.753	6.341	52.874	0.00	0.00
ATOM	8232	CB	ALA	X	538	33.264	5.816	50.753	0.00	0.00
ATOM	8233	HB1	ALA	X	538	32.989	4.798	51.029	0.00	0.00
ATOM	8234	HB2	ALA	X	538	32.366	6.184	50.256	0.00	0.00
ATOM	8235	HB3	ALA	X	538	34.177	5.891	50.162	0.00	0.00
ATOM	8236	C	ALA	X	538	34.778	6.028	52.802	0.00	0.00
ATOM	8237	O	ALA	X	538	34.956	4.859	52.989	0.00	0.00
ATOM	8238	N	THR	X	539	35.807	6.804	53.260	0.00	0.00
ATOM	8239	H	THR	X	539	35.780	7.781	53.007	0.00	0.00
ATOM	8240	CA	THR	X	539	37.115	6.370	53.691	0.00	0.00
ATOM	8241	HA	THR	X	539	37.431	5.583	53.006	0.00	0.00
ATOM	8242	CB	THR	X	539	38.233	7.472	53.695	0.00	0.00
ATOM	8243	HB	THR	X	539	38.009	8.310	54.355	0.00	0.00
ATOM	8244	CG2	THR	X	539	39.560	6.899	54.194	0.00	0.00
ATOM	8245	HG21	THR	X	539	39.739	6.030	53.561	0.00	0.00
ATOM	8246	HG22	THR	X	539	40.320	7.672	54.078	0.00	0.00
ATOM	8247	HG23	THR	X	539	39.495	6.619	55.245	0.00	0.00
ATOM	8248	OG1	THR	X	539	38.450	7.954	52.349	0.00	0.00
ATOM	8249	HG1	THR	X	539	37.819	7.621	51.706	0.00	0.00
ATOM	8250	C	THR	X	539	36.961	5.623	55.038	0.00	0.00
ATOM	8251	O	THR	X	539	36.427	6.212	56.030	0.00	0.00
ATOM	8252	OXT	THR	X	539	37.567	4.548	55.164	0.00	0.00
ATOM	8253	C	LIG	X	540	46.872	33.570	48.295	0.00	0.00
ATOM	8254	C1	LIG	X	540	47.569	33.353	49.443	0.00	0.00
ATOM	8255	C2	LIG	X	540	48.120	32.100	49.679	0.00	0.00
ATOM	8256	C3	LIG	X	540	47.807	30.986	48.905	0.00	0.00
ATOM	8257	C4	LIG	X	540	47.072	31.179	47.787	0.00	0.00
ATOM	8258	C5	LIG	X	540	46.639	32.491	47.416	0.00	0.00
ATOM	8259	C6	LIG	X	540	46.386	34.969	48.015	0.00	0.00
ATOM	8260	N	LIG	X	540	46.932	35.669	46.843	0.00	0.00
ATOM	8261	C7	LIG	X	540	48.468	35.688	46.876	0.00	0.00
ATOM	8262	H	LIG	X	540	46.548	35.252	45.979	0.00	0.00

ATOM	8263	C8	LIG	X	540	46.485	37.147	46.802	0.00	0.00
ATOM	8264	O	LIG	X	540	48.708	31.918	50.836	0.00	0.00
ATOM	8265	C9	LIG	X	540	48.710	32.787	52.001	0.00	0.00
ATOM	8266	O1	LIG	X	540	48.073	29.685	49.296	0.00	0.00
ATOM	8267	H1	LIG	X	540	48.593	29.753	50.117	0.00	0.00
ATOM	8268	H2	LIG	X	540	47.749	34.235	50.054	0.00	0.00
ATOM	8269	H3	LIG	X	540	46.806	30.268	47.257	0.00	0.00
ATOM	8270	H4	LIG	X	540	45.996	32.756	46.581	0.00	0.00
ATOM	8271	H5	LIG	X	540	46.657	35.636	48.834	0.00	0.00
ATOM	8272	H6	LIG	X	540	45.298	34.959	47.932	0.00	0.00
ATOM	8273	H7	LIG	X	540	46.950	37.682	47.631	0.00	0.00
ATOM	8274	H8	LIG	X	540	45.399	37.048	46.762	0.00	0.00
ATOM	8275	H9	LIG	X	540	46.852	37.538	45.852	0.00	0.00
ATOM	8276	H10	LIG	X	540	48.813	35.929	45.869	0.00	0.00
ATOM	8277	H11	LIG	X	540	48.813	36.428	47.599	0.00	0.00
ATOM	8278	H12	LIG	X	540	48.819	34.675	47.082	0.00	0.00
ATOM	8279	H13	LIG	X	540	47.707	33.063	52.339	0.00	0.00
ATOM	8280	H14	LIG	X	540	49.223	32.260	52.809	0.00	0.00
ATOM	8281	H15	LIG	X	540	49.274	33.687	51.743	0.00	0.00
ATOM	8282	Na+	Na+	X	541	53.148	53.826	37.744	0.00	0.00
ATOM	8283	Na+	Na+	X	542	74.705	0.850	9.281	0.00	0.00
ATOM	8284	Na+	Na+	X	543	34.790	-10.979	61.099	0.00	0.00
ATOM	8285	Na+	Na+	X	544	48.093	1.386	47.212	0.00	0.00
ATOM	8286	Na+	Na+	X	545	55.666	23.401	29.220	0.00	0.00
ATOM	8287	Na+	Na+	X	546	7.678	20.979	55.645	0.00	0.00
ATOM	8288	Na+	Na+	X	547	47.486	40.044	38.802	0.00	0.00

END

2-HCl

CRYST1	87.125	87.125	87.125	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	51.010	74.687	26.447	0.00	0.00
ATOM	2	H1	ASP	X	1	51.152	73.699	26.292	0.00	0.00
ATOM	3	H2	ASP	X	1	50.922	75.100	25.530	0.00	0.00
ATOM	4	H3	ASP	X	1	50.144	74.743	26.964	0.00	0.00
ATOM	5	CA	ASP	X	1	52.027	75.380	27.267	0.00	0.00
ATOM	6	HA	ASP	X	1	53.008	75.369	26.791	0.00	0.00
ATOM	7	CB	ASP	X	1	51.595	76.777	27.502	0.00	0.00
ATOM	8	HB2	ASP	X	1	51.157	77.180	26.588	0.00	0.00
ATOM	9	HB3	ASP	X	1	50.846	76.900	28.283	0.00	0.00
ATOM	10	CG	ASP	X	1	52.734	77.675	27.928	0.00	0.00
ATOM	11	OD1	ASP	X	1	53.586	78.171	27.123	0.00	0.00
ATOM	12	OD2	ASP	X	1	53.111	77.627	29.125	0.00	0.00
ATOM	13	C	ASP	X	1	52.216	74.654	28.641	0.00	0.00
ATOM	14	O	ASP	X	1	53.339	74.289	28.979	0.00	0.00
ATOM	15	N	ALA	X	2	51.219	74.593	29.482	0.00	0.00
ATOM	16	H	ALA	X	2	50.346	75.023	29.213	0.00	0.00
ATOM	17	CA	ALA	X	2	51.313	73.979	30.854	0.00	0.00
ATOM	18	HA	ALA	X	2	52.378	73.887	31.069	0.00	0.00
ATOM	19	CB	ALA	X	2	50.676	74.962	31.845	0.00	0.00
ATOM	20	HB1	ALA	X	2	50.993	74.536	32.797	0.00	0.00
ATOM	21	HB2	ALA	X	2	51.049	75.962	31.626	0.00	0.00
ATOM	22	HB3	ALA	X	2	49.586	74.936	31.820	0.00	0.00
ATOM	23	C	ALA	X	2	50.866	72.535	30.956	0.00	0.00
ATOM	24	O	ALA	X	2	50.148	72.074	31.843	0.00	0.00
ATOM	25	N	GLU	X	3	51.384	71.683	30.018	0.00	0.00
ATOM	26	H	GLU	X	3	51.904	72.029	29.224	0.00	0.00
ATOM	27	CA	GLU	X	3	51.000	70.253	29.987	0.00	0.00
ATOM	28	HA	GLU	X	3	49.915	70.182	30.060	0.00	0.00
ATOM	29	CB	GLU	X	3	51.408	69.630	28.634	0.00	0.00
ATOM	30	HB2	GLU	X	3	52.406	69.959	28.343	0.00	0.00
ATOM	31	HB3	GLU	X	3	51.356	68.542	28.680	0.00	0.00
ATOM	32	CG	GLU	X	3	50.448	70.088	27.495	0.00	0.00
ATOM	33	HG2	GLU	X	3	50.704	69.571	26.570	0.00	0.00
ATOM	34	HG3	GLU	X	3	49.411	69.854	27.737	0.00	0.00
ATOM	35	CD	GLU	X	3	50.571	71.551	27.206	0.00	0.00
ATOM	36	OE1	GLU	X	3	49.596	72.320	27.164	0.00	0.00
ATOM	37	OE2	GLU	X	3	51.688	72.008	26.805	0.00	0.00
ATOM	38	C	GLU	X	3	51.434	69.386	31.197	0.00	0.00
ATOM	39	O	GLU	X	3	50.914	68.239	31.272	0.00	0.00
ATOM	40	N	LEU	X	4	52.330	69.879	32.071	0.00	0.00
ATOM	41	H	LEU	X	4	52.805	70.744	31.854	0.00	0.00

ATOM	42	CA	LEU	X	4	52.666	69.236	33.480	0.00	0.00
ATOM	43	HA	LEU	X	4	52.356	68.196	33.381	0.00	0.00
ATOM	44	CB	LEU	X	4	54.192	69.215	33.610	0.00	0.00
ATOM	45	HB2	LEU	X	4	54.601	70.224	33.582	0.00	0.00
ATOM	46	HB3	LEU	X	4	54.490	68.849	34.592	0.00	0.00
ATOM	47	CG	LEU	X	4	54.892	68.404	32.527	0.00	0.00
ATOM	48	HG	LEU	X	4	54.769	68.917	31.573	0.00	0.00
ATOM	49	CD1	LEU	X	4	56.426	68.437	32.924	0.00	0.00
ATOM	50	HD11	LEU	X	4	57.012	68.182	32.041	0.00	0.00
ATOM	51	HD12	LEU	X	4	56.784	69.385	33.326	0.00	0.00
ATOM	52	HD13	LEU	X	4	56.525	67.642	33.664	0.00	0.00
ATOM	53	CD2	LEU	X	4	54.275	67.004	32.407	0.00	0.00
ATOM	54	HD21	LEU	X	4	54.855	66.388	31.720	0.00	0.00
ATOM	55	HD22	LEU	X	4	54.134	66.498	33.362	0.00	0.00
ATOM	56	HD23	LEU	X	4	53.279	66.981	31.963	0.00	0.00
ATOM	57	C	LEU	X	4	52.002	69.879	34.691	0.00	0.00
ATOM	58	O	LEU	X	4	52.079	69.419	35.776	0.00	0.00
ATOM	59	N	LEU	X	5	51.118	70.839	34.457	0.00	0.00
ATOM	60	H	LEU	X	5	51.034	71.113	33.489	0.00	0.00
ATOM	61	CA	LEU	X	5	50.112	71.276	35.397	0.00	0.00
ATOM	62	HA	LEU	X	5	50.360	70.923	36.398	0.00	0.00
ATOM	63	CB	LEU	X	5	50.043	72.810	35.371	0.00	0.00
ATOM	64	HB2	LEU	X	5	50.076	73.163	34.340	0.00	0.00
ATOM	65	HB3	LEU	X	5	49.053	73.073	35.743	0.00	0.00
ATOM	66	CG	LEU	X	5	50.991	73.695	36.210	0.00	0.00
ATOM	67	HG	LEU	X	5	50.589	74.708	36.252	0.00	0.00
ATOM	68	CD1	LEU	X	5	51.196	73.287	37.668	0.00	0.00
ATOM	69	HD11	LEU	X	5	50.236	73.415	38.168	0.00	0.00
ATOM	70	HD12	LEU	X	5	51.608	72.278	37.695	0.00	0.00
ATOM	71	HD13	LEU	X	5	51.913	73.980	38.107	0.00	0.00
ATOM	72	CD2	LEU	X	5	52.360	73.806	35.560	0.00	0.00
ATOM	73	HD21	LEU	X	5	52.940	72.884	35.576	0.00	0.00
ATOM	74	HD22	LEU	X	5	52.287	74.165	34.533	0.00	0.00
ATOM	75	HD23	LEU	X	5	53.000	74.560	36.020	0.00	0.00
ATOM	76	C	LEU	X	5	48.752	70.701	35.032	0.00	0.00
ATOM	77	O	LEU	X	5	48.546	70.532	33.837	0.00	0.00
ATOM	78	N	VAL	X	6	47.901	70.346	36.010	0.00	0.00
ATOM	79	H	VAL	X	6	48.152	70.437	36.984	0.00	0.00
ATOM	80	CA	VAL	X	6	46.567	69.831	35.638	0.00	0.00
ATOM	81	HA	VAL	X	6	46.283	70.395	34.749	0.00	0.00
ATOM	82	CB	VAL	X	6	46.578	68.335	35.301	0.00	0.00
ATOM	83	HB	VAL	X	6	47.444	68.056	34.700	0.00	0.00
ATOM	84	CG1	VAL	X	6	46.650	67.481	36.515	0.00	0.00
ATOM	85	HG11	VAL	X	6	45.733	67.402	37.100	0.00	0.00
ATOM	86	HG12	VAL	X	6	47.034	66.516	36.185	0.00	0.00
ATOM	87	HG13	VAL	X	6	47.469	67.820	37.149	0.00	0.00
ATOM	88	CG2	VAL	X	6	45.304	67.932	34.520	0.00	0.00
ATOM	89	HG21	VAL	X	6	44.405	67.920	35.135	0.00	0.00
ATOM	90	HG22	VAL	X	6	45.131	68.650	33.717	0.00	0.00
ATOM	91	HG23	VAL	X	6	45.400	66.926	34.111	0.00	0.00
ATOM	92	C	VAL	X	6	45.550	70.039	36.711	0.00	0.00
ATOM	93	O	VAL	X	6	45.976	70.080	37.867	0.00	0.00
ATOM	94	N	THR	X	7	44.311	70.435	36.351	0.00	0.00
ATOM	95	H	THR	X	7	44.114	70.462	35.361	0.00	0.00
ATOM	96	CA	THR	X	7	43.247	70.699	37.300	0.00	0.00
ATOM	97	HA	THR	X	7	43.741	70.721	38.272	0.00	0.00
ATOM	98	CB	THR	X	7	42.728	72.100	36.927	0.00	0.00
ATOM	99	HB	THR	X	7	42.185	71.929	35.998	0.00	0.00
ATOM	100	CG2	THR	X	7	41.745	72.580	37.961	0.00	0.00
ATOM	101	HG21	THR	X	7	42.183	72.595	38.959	0.00	0.00
ATOM	102	HG22	THR	X	7	41.395	73.579	37.700	0.00	0.00
ATOM	103	HG23	THR	X	7	40.898	71.894	37.966	0.00	0.00
ATOM	104	OG1	THR	X	7	43.753	73.017	36.887	0.00	0.00
ATOM	105	HG1	THR	X	7	43.409	73.894	36.703	0.00	0.00
ATOM	106	C	THR	X	7	42.201	69.586	37.376	0.00	0.00
ATOM	107	O	THR	X	7	41.960	68.930	36.385	0.00	0.00
ATOM	108	N	VAL	X	8	41.768	69.341	38.618	0.00	0.00
ATOM	109	H	VAL	X	8	41.978	69.993	39.360	0.00	0.00
ATOM	110	CA	VAL	X	8	40.659	68.393	38.978	0.00	0.00
ATOM	111	HA	VAL	X	8	40.162	68.227	38.022	0.00	0.00

ATOM	112	CB	VAL	X	8	41.268	67.107	39.571	0.00	0.00
ATOM	113	HB	VAL	X	8	40.506	66.410	39.921	0.00	0.00
ATOM	114	CG1	VAL	X	8	42.105	66.320	38.654	0.00	0.00
ATOM	115	HG11	VAL	X	8	42.254	65.332	39.089	0.00	0.00
ATOM	116	HG12	VAL	X	8	41.673	66.213	37.659	0.00	0.00
ATOM	117	HG13	VAL	X	8	43.074	66.799	38.514	0.00	0.00
ATOM	118	CG2	VAL	X	8	42.017	67.382	40.860	0.00	0.00
ATOM	119	HG21	VAL	X	8	42.793	68.134	40.717	0.00	0.00
ATOM	120	HG22	VAL	X	8	41.211	67.653	41.542	0.00	0.00
ATOM	121	HG23	VAL	X	8	42.514	66.462	41.169	0.00	0.00
ATOM	122	C	VAL	X	8	39.567	69.109	39.868	0.00	0.00
ATOM	123	O	VAL	X	8	39.796	70.183	40.374	0.00	0.00
ATOM	124	N	ARG	X	9	38.510	68.386	40.175	0.00	0.00
ATOM	125	H	ARG	X	9	38.290	67.577	39.612	0.00	0.00
ATOM	126	CA	ARG	X	9	37.490	68.881	41.082	0.00	0.00
ATOM	127	HA	ARG	X	9	36.952	69.556	40.416	0.00	0.00
ATOM	128	CB	ARG	X	9	36.648	67.729	41.535	0.00	0.00
ATOM	129	HB2	ARG	X	9	36.413	67.082	40.689	0.00	0.00
ATOM	130	HB3	ARG	X	9	37.233	67.042	42.147	0.00	0.00
ATOM	131	CG	ARG	X	9	35.379	68.220	42.267	0.00	0.00
ATOM	132	HG2	ARG	X	9	35.613	68.405	43.316	0.00	0.00
ATOM	133	HG3	ARG	X	9	34.975	69.148	41.862	0.00	0.00
ATOM	134	CD	ARG	X	9	34.292	67.189	42.254	0.00	0.00
ATOM	135	HD2	ARG	X	9	34.423	66.435	41.478	0.00	0.00
ATOM	136	HD3	ARG	X	9	34.303	66.573	43.153	0.00	0.00
ATOM	137	NE	ARG	X	9	32.945	67.751	42.050	0.00	0.00
ATOM	138	HE	ARG	X	9	32.947	68.731	41.806	0.00	0.00
ATOM	139	CZ	ARG	X	9	31.806	67.088	41.952	0.00	0.00
ATOM	140	NH1	ARG	X	9	31.738	65.876	42.167	0.00	0.00
ATOM	141	HH11	ARG	X	9	32.591	65.416	42.453	0.00	0.00
ATOM	142	HH12	ARG	X	9	30.868	65.368	42.096	0.00	0.00
ATOM	143	NH2	ARG	X	9	30.756	67.781	41.675	0.00	0.00
ATOM	144	HH21	ARG	X	9	30.831	68.778	41.529	0.00	0.00
ATOM	145	HH22	ARG	X	9	29.910	67.258	41.851	0.00	0.00
ATOM	146	C	ARG	X	9	38.003	69.588	42.322	0.00	0.00
ATOM	147	O	ARG	X	9	37.552	70.733	42.573	0.00	0.00
ATOM	148	N	GLY	X	10	38.992	68.910	42.975	0.00	0.00
ATOM	149	H	GLY	X	10	39.175	67.960	42.686	0.00	0.00
ATOM	150	CA	GLY	X	10	39.584	69.544	44.239	0.00	0.00
ATOM	151	HA2	GLY	X	10	38.788	69.830	44.875	0.00	0.00
ATOM	152	HA3	GLY	X	10	40.218	68.785	44.696	0.00	0.00
ATOM	153	C	GLY	X	10	40.466	70.814	43.940	0.00	0.00
ATOM	154	O	GLY	X	10	40.424	71.825	44.603	0.00	0.00
ATOM	155	N	GLY	X	11	41.343	70.690	42.949	0.00	0.00
ATOM	156	H	GLY	X	11	41.258	69.916	42.306	0.00	0.00
ATOM	157	CA	GLY	X	11	42.169	71.820	42.518	0.00	0.00
ATOM	158	HA2	GLY	X	11	41.592	72.512	42.000	0.00	0.00
ATOM	159	HA3	GLY	X	11	42.582	72.295	43.471	0.00	0.00
ATOM	160	C	GLY	X	11	43.342	71.458	41.640	0.00	0.00
ATOM	161	O	GLY	X	11	43.294	70.580	40.841	0.00	0.00
ATOM	162	N	ARG	X	12	44.435	72.281	41.709	0.00	0.00
ATOM	163	H	ARG	X	12	44.353	72.984	42.430	0.00	0.00
ATOM	164	CA	ARG	X	12	45.581	72.332	40.863	0.00	0.00
ATOM	165	HA	ARG	X	12	45.172	71.971	39.919	0.00	0.00
ATOM	166	CB	ARG	X	12	46.115	73.751	40.716	0.00	0.00
ATOM	167	HB2	ARG	X	12	46.804	74.045	41.508	0.00	0.00
ATOM	168	HB3	ARG	X	12	46.749	73.762	39.829	0.00	0.00
ATOM	169	CG	ARG	X	12	45.157	74.981	40.483	0.00	0.00
ATOM	170	HG2	ARG	X	12	44.629	74.625	39.598	0.00	0.00
ATOM	171	HG3	ARG	X	12	44.529	75.164	41.354	0.00	0.00
ATOM	172	CD	ARG	X	12	46.024	76.217	40.164	0.00	0.00
ATOM	173	HD2	ARG	X	12	45.367	77.087	40.194	0.00	0.00
ATOM	174	HD3	ARG	X	12	46.669	76.261	41.041	0.00	0.00
ATOM	175	NE	ARG	X	12	46.659	76.065	38.887	0.00	0.00
ATOM	176	HE	ARG	X	12	46.219	75.438	38.229	0.00	0.00
ATOM	177	CZ	ARG	X	12	47.781	76.607	38.392	0.00	0.00
ATOM	178	NH1	ARG	X	12	48.426	77.596	39.018	0.00	0.00
ATOM	179	HH11	ARG	X	12	47.991	77.995	39.838	0.00	0.00
ATOM	180	HH12	ARG	X	12	49.183	78.059	38.535	0.00	0.00
ATOM	181	NH2	ARG	X	12	48.141	76.149	37.234	0.00	0.00

ATOM	182	HH21	ARG	X	12	47.621	75.384	36.828	0.00	0.00
ATOM	183	HH22	ARG	X	12	48.711	76.732	36.638	0.00	0.00
ATOM	184	C	ARG	X	12	46.632	71.243	41.335	0.00	0.00
ATOM	185	O	ARG	X	12	47.030	71.171	42.502	0.00	0.00
ATOM	186	N	LEU	X	13	47.163	70.461	40.401	0.00	0.00
ATOM	187	H	LEU	X	13	46.834	70.695	39.475	0.00	0.00
ATOM	188	CA	LEU	X	13	48.220	69.415	40.519	0.00	0.00
ATOM	189	HA	LEU	X	13	48.601	69.435	41.540	0.00	0.00
ATOM	190	CB	LEU	X	13	47.445	68.117	40.209	0.00	0.00
ATOM	191	HB2	LEU	X	13	47.043	68.253	39.205	0.00	0.00
ATOM	192	HB3	LEU	X	13	48.239	67.411	40.452	0.00	0.00
ATOM	193	CG	LEU	X	13	46.248	67.758	41.122	0.00	0.00
ATOM	194	HG	LEU	X	13	45.605	68.637	41.171	0.00	0.00
ATOM	195	CD1	LEU	X	13	45.491	66.632	40.400	0.00	0.00
ATOM	196	HD11	LEU	X	13	46.057	65.815	39.953	0.00	0.00
ATOM	197	HD12	LEU	X	13	44.894	66.114	41.151	0.00	0.00
ATOM	198	HD13	LEU	X	13	44.996	67.222	39.628	0.00	0.00
ATOM	199	CD2	LEU	X	13	46.640	67.534	42.586	0.00	0.00
ATOM	200	HD21	LEU	X	13	45.722	67.235	43.092	0.00	0.00
ATOM	201	HD22	LEU	X	13	47.410	66.782	42.760	0.00	0.00
ATOM	202	HD23	LEU	X	13	47.112	68.390	43.069	0.00	0.00
ATOM	203	C	LEU	X	13	49.420	69.576	39.580	0.00	0.00
ATOM	204	O	LEU	X	13	49.240	69.959	38.405	0.00	0.00
ATOM	205	N	ARG	X	14	50.665	69.412	40.067	0.00	0.00
ATOM	206	H	ARG	X	14	50.766	69.152	41.037	0.00	0.00
ATOM	207	CA	ARG	X	14	51.859	69.370	39.234	0.00	0.00
ATOM	208	HA	ARG	X	14	51.678	69.630	38.191	0.00	0.00
ATOM	209	CB	ARG	X	14	52.859	70.402	39.730	0.00	0.00
ATOM	210	HB2	ARG	X	14	52.415	71.397	39.754	0.00	0.00
ATOM	211	HB3	ARG	X	14	53.037	70.063	40.750	0.00	0.00
ATOM	212	CG	ARG	X	14	54.185	70.440	39.008	0.00	0.00
ATOM	213	HG2	ARG	X	14	54.753	69.522	39.153	0.00	0.00
ATOM	214	HG3	ARG	X	14	54.067	70.674	37.950	0.00	0.00
ATOM	215	CD	ARG	X	14	55.083	71.456	39.628	0.00	0.00
ATOM	216	HD2	ARG	X	14	56.043	71.512	39.116	0.00	0.00
ATOM	217	HD3	ARG	X	14	54.800	72.500	39.493	0.00	0.00
ATOM	218	NE	ARG	X	14	55.257	71.272	41.159	0.00	0.00
ATOM	219	HE	ARG	X	14	55.353	70.298	41.410	0.00	0.00
ATOM	220	CZ	ARG	X	14	54.940	72.065	42.160	0.00	0.00
ATOM	221	NH1	ARG	X	14	54.484	73.233	41.942	0.00	0.00
ATOM	222	HH11	ARG	X	14	54.381	73.708	41.057	0.00	0.00
ATOM	223	HH12	ARG	X	14	54.358	73.752	42.800	0.00	0.00
ATOM	224	NH2	ARG	X	14	55.090	71.651	43.416	0.00	0.00
ATOM	225	HH21	ARG	X	14	55.426	70.718	43.609	0.00	0.00
ATOM	226	HH22	ARG	X	14	54.733	72.293	44.108	0.00	0.00
ATOM	227	C	ARG	X	14	52.469	67.946	39.158	0.00	0.00
ATOM	228	O	ARG	X	14	52.615	67.263	40.158	0.00	0.00
ATOM	229	N	GLY	X	15	52.750	67.542	37.920	0.00	0.00
ATOM	230	H	GLY	X	15	52.398	68.044	37.118	0.00	0.00
ATOM	231	CA	GLY	X	15	53.348	66.196	37.671	0.00	0.00
ATOM	232	HA2	GLY	X	15	53.549	65.617	38.580	0.00	0.00
ATOM	233	HA3	GLY	X	15	52.638	65.644	37.088	0.00	0.00
ATOM	234	C	GLY	X	15	54.667	66.386	36.891	0.00	0.00
ATOM	235	O	GLY	X	15	55.383	67.350	36.998	0.00	0.00
ATOM	236	N	ILE	X	16	54.984	65.445	36.059	0.00	0.00
ATOM	237	H	ILE	X	16	54.409	64.614	36.035	0.00	0.00
ATOM	238	CA	ILE	X	16	56.328	65.228	35.587	0.00	0.00
ATOM	239	HA	ILE	X	16	56.848	66.185	35.630	0.00	0.00
ATOM	240	CB	ILE	X	16	57.150	64.342	36.581	0.00	0.00
ATOM	241	HB	ILE	X	16	58.053	64.040	36.051	0.00	0.00
ATOM	242	CG2	ILE	X	16	57.569	65.081	37.813	0.00	0.00
ATOM	243	HG21	ILE	X	16	56.709	65.333	38.433	0.00	0.00
ATOM	244	HG22	ILE	X	16	58.345	64.502	38.313	0.00	0.00
ATOM	245	HG23	ILE	X	16	58.102	65.992	37.540	0.00	0.00
ATOM	246	CG1	ILE	X	16	56.417	62.966	36.923	0.00	0.00
ATOM	247	HG12	ILE	X	16	55.587	63.318	37.535	0.00	0.00
ATOM	248	HG13	ILE	X	16	55.869	62.654	36.033	0.00	0.00
ATOM	249	CD1	ILE	X	16	57.213	61.832	37.597	0.00	0.00
ATOM	250	HD11	ILE	X	16	58.162	61.741	37.067	0.00	0.00
ATOM	251	HD12	ILE	X	16	57.412	62.065	38.643	0.00	0.00

ATOM	252	HD13	ILE	X	16	56.638	60.911	37.692	0.00	0.00
ATOM	253	C	ILE	X	16	56.359	64.570	34.215	0.00	0.00
ATOM	254	O	ILE	X	16	55.543	63.725	33.805	0.00	0.00
ATOM	255	N	ARG	X	17	57.482	64.893	33.425	0.00	0.00
ATOM	256	H	ARG	X	17	58.066	65.654	33.742	0.00	0.00
ATOM	257	CA	ARG	X	17	57.865	64.087	32.256	0.00	0.00
ATOM	258	HA	ARG	X	17	56.947	63.795	31.746	0.00	0.00
ATOM	259	CB	ARG	X	17	58.800	64.872	31.320	0.00	0.00
ATOM	260	HB2	ARG	X	17	58.578	65.937	31.260	0.00	0.00
ATOM	261	HB3	ARG	X	17	59.821	64.760	31.685	0.00	0.00
ATOM	262	CG	ARG	X	17	58.920	64.248	29.941	0.00	0.00
ATOM	263	HG2	ARG	X	17	59.517	63.336	29.931	0.00	0.00
ATOM	264	HG3	ARG	X	17	57.900	64.007	29.639	0.00	0.00
ATOM	265	CD	ARG	X	17	59.546	65.225	28.934	0.00	0.00
ATOM	266	HD2	ARG	X	17	59.642	64.745	27.960	0.00	0.00
ATOM	267	HD3	ARG	X	17	58.752	65.965	28.826	0.00	0.00
ATOM	268	NE	ARG	X	17	60.814	65.845	29.478	0.00	0.00
ATOM	269	HE	ARG	X	17	61.502	65.194	29.828	0.00	0.00
ATOM	270	CZ	ARG	X	17	61.303	67.020	28.990	0.00	0.00
ATOM	271	NH1	ARG	X	17	60.564	67.876	28.326	0.00	0.00
ATOM	272	HH11	ARG	X	17	59.632	67.557	28.101	0.00	0.00
ATOM	273	HH12	ARG	X	17	60.927	68.693	27.857	0.00	0.00
ATOM	274	NH2	ARG	X	17	62.528	67.220	29.221	0.00	0.00
ATOM	275	HH21	ARG	X	17	63.163	66.578	29.673	0.00	0.00
ATOM	276	HH22	ARG	X	17	62.928	68.051	28.810	0.00	0.00
ATOM	277	C	ARG	X	17	58.504	62.807	32.690	0.00	0.00
ATOM	278	O	ARG	X	17	59.298	62.870	33.674	0.00	0.00
ATOM	279	N	LEU	X	18	58.238	61.699	31.964	0.00	0.00
ATOM	280	H	LEU	X	18	57.593	61.788	31.191	0.00	0.00
ATOM	281	CA	LEU	X	18	59.029	60.459	32.058	0.00	0.00
ATOM	282	HA	LEU	X	18	59.711	60.595	32.898	0.00	0.00
ATOM	283	CB	LEU	X	18	58.135	59.209	32.498	0.00	0.00
ATOM	284	HB2	LEU	X	18	57.323	59.140	31.775	0.00	0.00
ATOM	285	HB3	LEU	X	18	58.858	58.393	32.503	0.00	0.00
ATOM	286	CG	LEU	X	18	57.480	59.416	33.885	0.00	0.00
ATOM	287	HG	LEU	X	18	57.042	60.413	33.920	0.00	0.00
ATOM	288	CD1	LEU	X	18	56.320	58.408	33.951	0.00	0.00
ATOM	289	HD11	LEU	X	18	55.645	58.426	33.095	0.00	0.00
ATOM	290	HD12	LEU	X	18	56.716	57.395	34.015	0.00	0.00
ATOM	291	HD13	LEU	X	18	55.870	58.601	34.925	0.00	0.00
ATOM	292	CD2	LEU	X	18	58.507	59.352	35.038	0.00	0.00
ATOM	293	HD21	LEU	X	18	58.880	58.331	35.123	0.00	0.00
ATOM	294	HD22	LEU	X	18	59.217	60.149	34.817	0.00	0.00
ATOM	295	HD23	LEU	X	18	57.967	59.470	35.977	0.00	0.00
ATOM	296	C	LEU	X	18	59.840	60.080	30.766	0.00	0.00
ATOM	297	O	LEU	X	18	59.358	60.234	29.638	0.00	0.00
ATOM	298	N	LYS	X	19	61.034	59.558	30.933	0.00	0.00
ATOM	299	H	LYS	X	19	61.393	59.419	31.867	0.00	0.00
ATOM	300	CA	LYS	X	19	61.864	58.938	29.856	0.00	0.00
ATOM	301	HA	LYS	X	19	61.867	59.560	28.961	0.00	0.00
ATOM	302	CB	LYS	X	19	63.369	58.698	30.335	0.00	0.00
ATOM	303	HB2	LYS	X	19	63.310	58.230	31.317	0.00	0.00
ATOM	304	HB3	LYS	X	19	63.751	58.001	29.590	0.00	0.00
ATOM	305	CG	LYS	X	19	64.268	59.974	30.515	0.00	0.00
ATOM	306	HG2	LYS	X	19	64.258	60.516	29.569	0.00	0.00
ATOM	307	HG3	LYS	X	19	63.885	60.664	31.267	0.00	0.00
ATOM	308	CD	LYS	X	19	65.696	59.709	31.075	0.00	0.00
ATOM	309	HD2	LYS	X	19	66.222	59.027	30.406	0.00	0.00
ATOM	310	HD3	LYS	X	19	66.288	60.612	31.223	0.00	0.00
ATOM	311	CE	LYS	X	19	65.457	59.035	32.415	0.00	0.00
ATOM	312	HE2	LYS	X	19	64.843	59.581	33.131	0.00	0.00
ATOM	313	HE3	LYS	X	19	64.962	58.096	32.166	0.00	0.00
ATOM	314	NZ	LYS	X	19	66.716	58.708	33.133	0.00	0.00
ATOM	315	HZ1	LYS	X	19	67.054	59.547	33.581	0.00	0.00
ATOM	316	HZ2	LYS	X	19	66.405	58.133	33.904	0.00	0.00
ATOM	317	HZ3	LYS	X	19	67.460	58.227	32.649	0.00	0.00
ATOM	318	C	LYS	X	19	61.183	57.599	29.426	0.00	0.00
ATOM	319	O	LYS	X	19	60.581	56.846	30.180	0.00	0.00
ATOM	320	N	THR	X	20	61.306	57.285	28.106	0.00	0.00
ATOM	321	H	THR	X	20	61.528	58.077	27.520	0.00	0.00

ATOM	322	CA	THR	X	20	60.846	55.957	27.533	0.00	0.00
ATOM	323	HA	THR	X	20	61.053	55.130	28.212	0.00	0.00
ATOM	324	CB	THR	X	20	59.349	55.937	27.218	0.00	0.00
ATOM	325	HB	THR	X	20	59.042	55.785	26.184	0.00	0.00
ATOM	326	CG2	THR	X	20	58.614	54.952	28.109	0.00	0.00
ATOM	327	HG21	THR	X	20	59.079	54.960	29.095	0.00	0.00
ATOM	328	HG22	THR	X	20	57.554	55.209	28.089	0.00	0.00
ATOM	329	HG23	THR	X	20	58.728	53.930	27.747	0.00	0.00
ATOM	330	OG1	THR	X	20	58.780	57.182	27.555	0.00	0.00
ATOM	331	HG1	THR	X	20	58.723	57.541	26.667	0.00	0.00
ATOM	332	C	THR	X	20	61.527	55.762	26.144	0.00	0.00
ATOM	333	O	THR	X	20	61.806	56.788	25.482	0.00	0.00
ATOM	334	N	PRO	X	21	61.802	54.523	25.665	0.00	0.00
ATOM	335	CD	PRO	X	21	61.562	53.236	26.355	0.00	0.00
ATOM	336	HD2	PRO	X	21	60.488	53.059	26.424	0.00	0.00
ATOM	337	HD3	PRO	X	21	62.003	53.140	27.347	0.00	0.00
ATOM	338	CG	PRO	X	21	62.126	52.180	25.543	0.00	0.00
ATOM	339	HG2	PRO	X	21	61.406	51.696	24.883	0.00	0.00
ATOM	340	HG3	PRO	X	21	62.594	51.404	26.149	0.00	0.00
ATOM	341	CB	PRO	X	21	63.146	52.932	24.674	0.00	0.00
ATOM	342	HB2	PRO	X	21	63.308	52.513	23.681	0.00	0.00
ATOM	343	HB3	PRO	X	21	64.124	52.930	25.157	0.00	0.00
ATOM	344	CA	PRO	X	21	62.764	54.392	24.612	0.00	0.00
ATOM	345	HA	PRO	X	21	63.720	54.889	24.777	0.00	0.00
ATOM	346	C	PRO	X	21	62.330	54.870	23.175	0.00	0.00
ATOM	347	O	PRO	X	21	63.183	54.989	22.304	0.00	0.00
ATOM	348	N	GLY	X	22	61.023	54.922	23.027	0.00	0.00
ATOM	349	H	GLY	X	22	60.470	54.502	23.760	0.00	0.00
ATOM	350	CA	GLY	X	22	60.353	55.379	21.837	0.00	0.00
ATOM	351	HA2	GLY	X	22	60.993	55.388	20.953	0.00	0.00
ATOM	352	HA3	GLY	X	22	59.561	54.729	21.617	0.00	0.00
ATOM	353	C	GLY	X	22	59.895	56.841	22.010	0.00	0.00
ATOM	354	O	GLY	X	22	59.053	57.295	21.248	0.00	0.00
ATOM	355	N	GLY	X	23	60.429	57.576	22.996	0.00	0.00
ATOM	356	H	GLY	X	23	61.082	57.023	23.532	0.00	0.00
ATOM	357	CA	GLY	X	23	60.172	58.977	23.279	0.00	0.00
ATOM	358	HA2	GLY	X	23	61.115	59.535	23.362	0.00	0.00
ATOM	359	HA3	GLY	X	23	59.636	59.481	22.520	0.00	0.00
ATOM	360	C	GLY	X	23	59.277	59.169	24.539	0.00	0.00
ATOM	361	O	GLY	X	23	58.594	58.258	25.021	0.00	0.00
ATOM	362	N	PRO	X	24	59.467	60.355	25.193	0.00	0.00
ATOM	363	CD	PRO	X	24	60.081	61.599	24.677	0.00	0.00
ATOM	364	HD2	PRO	X	24	59.458	61.974	23.865	0.00	0.00
ATOM	365	HD3	PRO	X	24	61.088	61.543	24.263	0.00	0.00
ATOM	366	CG	PRO	X	24	60.062	62.590	25.813	0.00	0.00
ATOM	367	HG2	PRO	X	24	59.622	63.505	25.416	0.00	0.00
ATOM	368	HG3	PRO	X	24	61.051	62.997	26.024	0.00	0.00
ATOM	369	CB	PRO	X	24	59.438	61.998	27.008	0.00	0.00
ATOM	370	HB2	PRO	X	24	58.628	62.631	27.371	0.00	0.00
ATOM	371	HB3	PRO	X	24	60.241	61.737	27.697	0.00	0.00
ATOM	372	CA	PRO	X	24	58.946	60.572	26.509	0.00	0.00
ATOM	373	HA	PRO	X	24	59.387	59.809	27.152	0.00	0.00
ATOM	374	C	PRO	X	24	57.400	60.414	26.489	0.00	0.00
ATOM	375	O	PRO	X	24	56.763	60.594	25.482	0.00	0.00
ATOM	376	N	VAL	X	25	56.826	60.295	27.724	0.00	0.00
ATOM	377	H	VAL	X	25	57.574	60.389	28.395	0.00	0.00
ATOM	378	CA	VAL	X	25	55.444	60.424	28.190	0.00	0.00
ATOM	379	HA	VAL	X	25	54.951	60.968	27.384	0.00	0.00
ATOM	380	CB	VAL	X	25	54.875	58.947	28.424	0.00	0.00
ATOM	381	HB	VAL	X	25	53.789	58.966	28.517	0.00	0.00
ATOM	382	CG1	VAL	X	25	55.186	57.913	27.376	0.00	0.00
ATOM	383	HG11	VAL	X	25	54.700	56.968	27.619	0.00	0.00
ATOM	384	HG12	VAL	X	25	55.011	58.298	26.371	0.00	0.00
ATOM	385	HG13	VAL	X	25	56.246	57.664	27.330	0.00	0.00
ATOM	386	CG2	VAL	X	25	55.377	58.264	29.768	0.00	0.00
ATOM	387	HG21	VAL	X	25	54.982	58.738	30.666	0.00	0.00
ATOM	388	HG22	VAL	X	25	55.098	57.213	29.851	0.00	0.00
ATOM	389	HG23	VAL	X	25	56.466	58.302	29.766	0.00	0.00
ATOM	390	C	VAL	X	25	55.416	61.353	29.487	0.00	0.00
ATOM	391	O	VAL	X	25	56.443	61.999	29.755	0.00	0.00

ATOM	392	N	SER	X	26	54.355	61.375	30.337	0.00	0.00
ATOM	393	H	SER	X	26	53.495	60.862	30.199	0.00	0.00
ATOM	394	CA	SER	X	26	54.281	62.046	31.639	0.00	0.00
ATOM	395	HA	SER	X	26	55.293	62.131	32.034	0.00	0.00
ATOM	396	CB	SER	X	26	53.669	63.463	31.541	0.00	0.00
ATOM	397	HB2	SER	X	26	53.417	63.896	32.509	0.00	0.00
ATOM	398	HB3	SER	X	26	54.370	64.111	31.014	0.00	0.00
ATOM	399	OG	SER	X	26	52.457	63.451	30.831	0.00	0.00
ATOM	400	HG	SER	X	26	52.270	62.629	30.372	0.00	0.00
ATOM	401	C	SER	X	26	53.545	61.152	32.658	0.00	0.00
ATOM	402	O	SER	X	26	52.841	60.178	32.329	0.00	0.00
ATOM	403	N	ALA	X	27	53.670	61.572	33.931	0.00	0.00
ATOM	404	H	ALA	X	27	54.304	62.344	34.080	0.00	0.00
ATOM	405	CA	ALA	X	27	52.782	61.110	34.929	0.00	0.00
ATOM	406	HA	ALA	X	27	51.784	61.008	34.504	0.00	0.00
ATOM	407	CB	ALA	X	27	53.218	59.778	35.536	0.00	0.00
ATOM	408	HB1	ALA	X	27	54.263	59.835	35.842	0.00	0.00
ATOM	409	HB2	ALA	X	27	52.505	59.437	36.286	0.00	0.00
ATOM	410	HB3	ALA	X	27	53.123	59.073	34.710	0.00	0.00
ATOM	411	C	ALA	X	27	52.614	62.192	35.937	0.00	0.00
ATOM	412	O	ALA	X	27	53.193	63.305	35.815	0.00	0.00
ATOM	413	N	PHE	X	28	51.654	61.923	36.845	0.00	0.00
ATOM	414	H	PHE	X	28	51.072	61.116	36.670	0.00	0.00
ATOM	415	CA	PHE	X	28	51.325	62.705	38.048	0.00	0.00
ATOM	416	HA	PHE	X	28	52.232	63.283	38.224	0.00	0.00
ATOM	417	CB	PHE	X	28	50.082	63.538	37.744	0.00	0.00
ATOM	418	HB2	PHE	X	28	49.235	62.858	37.646	0.00	0.00
ATOM	419	HB3	PHE	X	28	49.884	64.022	38.701	0.00	0.00
ATOM	420	CG	PHE	X	28	50.084	64.662	36.656	0.00	0.00
ATOM	421	CD1	PHE	X	28	50.012	64.233	35.302	0.00	0.00
ATOM	422	HD1	PHE	X	28	49.937	63.185	35.050	0.00	0.00
ATOM	423	CE1	PHE	X	28	50.081	65.126	34.225	0.00	0.00
ATOM	424	HE1	PHE	X	28	50.055	64.761	33.209	0.00	0.00
ATOM	425	CZ	PHE	X	28	50.213	66.520	34.551	0.00	0.00
ATOM	426	HZ	PHE	X	28	50.420	67.271	33.802	0.00	0.00
ATOM	427	CE2	PHE	X	28	50.154	67.002	35.891	0.00	0.00
ATOM	428	HE2	PHE	X	28	49.994	68.039	36.147	0.00	0.00
ATOM	429	CD2	PHE	X	28	50.170	66.060	36.926	0.00	0.00
ATOM	430	HD2	PHE	X	28	50.042	66.376	37.951	0.00	0.00
ATOM	431	C	PHE	X	28	51.024	61.610	39.059	0.00	0.00
ATOM	432	O	PHE	X	28	50.311	60.641	38.709	0.00	0.00
ATOM	433	N	LEU	X	29	51.663	61.627	40.215	0.00	0.00
ATOM	434	H	LEU	X	29	52.320	62.363	40.431	0.00	0.00
ATOM	435	CA	LEU	X	29	51.738	60.535	41.099	0.00	0.00
ATOM	436	HA	LEU	X	29	51.075	59.732	40.778	0.00	0.00
ATOM	437	CB	LEU	X	29	53.156	60.089	41.014	0.00	0.00
ATOM	438	HB2	LEU	X	29	53.815	60.899	41.327	0.00	0.00
ATOM	439	HB3	LEU	X	29	53.250	59.224	41.672	0.00	0.00
ATOM	440	CG	LEU	X	29	53.764	59.676	39.708	0.00	0.00
ATOM	441	HG	LEU	X	29	53.584	60.420	38.932	0.00	0.00
ATOM	442	CD1	LEU	X	29	55.266	59.525	39.819	0.00	0.00
ATOM	443	HD11	LEU	X	29	55.497	58.921	40.697	0.00	0.00
ATOM	444	HD12	LEU	X	29	55.715	59.077	38.932	0.00	0.00
ATOM	445	HD13	LEU	X	29	55.758	60.483	39.985	0.00	0.00
ATOM	446	CD2	LEU	X	29	53.186	58.317	39.229	0.00	0.00
ATOM	447	HD21	LEU	X	29	52.113	58.408	39.059	0.00	0.00
ATOM	448	HD22	LEU	X	29	53.606	58.098	38.247	0.00	0.00
ATOM	449	HD23	LEU	X	29	53.450	57.524	39.929	0.00	0.00
ATOM	450	C	LEU	X	29	51.393	61.048	42.525	0.00	0.00
ATOM	451	O	LEU	X	29	51.825	62.172	42.785	0.00	0.00
ATOM	452	N	GLY	X	30	50.882	60.214	43.456	0.00	0.00
ATOM	453	H	GLY	X	30	50.625	59.261	43.242	0.00	0.00
ATOM	454	CA	GLY	X	30	50.709	60.658	44.861	0.00	0.00
ATOM	455	HA2	GLY	X	30	50.419	59.718	45.438	0.00	0.00
ATOM	456	HA3	GLY	X	30	51.547	61.100	45.326	0.00	0.00
ATOM	457	C	GLY	X	30	49.566	61.664	44.985	0.00	0.00
ATOM	458	O	GLY	X	30	49.605	62.468	45.935	0.00	0.00
ATOM	459	N	ILE	X	31	48.589	61.730	44.063	0.00	0.00
ATOM	460	H	ILE	X	31	48.705	61.066	43.310	0.00	0.00
ATOM	461	CA	ILE	X	31	47.420	62.524	44.058	0.00	0.00

ATOM	462	HA	ILE	X	31	47.735	63.562	44.171	0.00	0.00
ATOM	463	CB	ILE	X	31	46.768	62.473	42.708	0.00	0.00
ATOM	464	HB	ILE	X	31	46.469	61.445	42.502	0.00	0.00
ATOM	465	CG2	ILE	X	31	45.541	63.403	42.757	0.00	0.00
ATOM	466	HG21	ILE	X	31	45.758	64.438	43.019	0.00	0.00
ATOM	467	HG22	ILE	X	31	44.966	63.352	41.833	0.00	0.00
ATOM	468	HG23	ILE	X	31	44.880	62.977	43.512	0.00	0.00
ATOM	469	CG1	ILE	X	31	47.719	63.022	41.661	0.00	0.00
ATOM	470	HG12	ILE	X	31	47.818	64.107	41.695	0.00	0.00
ATOM	471	HG13	ILE	X	31	48.722	62.639	41.847	0.00	0.00
ATOM	472	CD1	ILE	X	31	47.240	62.725	40.167	0.00	0.00
ATOM	473	HD11	ILE	X	31	46.768	61.749	40.055	0.00	0.00
ATOM	474	HD12	ILE	X	31	46.527	63.510	39.916	0.00	0.00
ATOM	475	HD13	ILE	X	31	47.958	62.800	39.351	0.00	0.00
ATOM	476	C	ILE	X	31	46.416	62.175	45.164	0.00	0.00
ATOM	477	O	ILE	X	31	45.965	61.034	45.174	0.00	0.00
ATOM	478	N	PRO	X	32	45.960	63.095	46.041	0.00	0.00
ATOM	479	CD	PRO	X	32	46.434	64.503	46.137	0.00	0.00
ATOM	480	HD2	PRO	X	32	45.802	65.167	45.547	0.00	0.00
ATOM	481	HD3	PRO	X	32	47.503	64.540	45.926	0.00	0.00
ATOM	482	CG	PRO	X	32	46.354	64.874	47.552	0.00	0.00
ATOM	483	HG2	PRO	X	32	46.170	65.946	47.626	0.00	0.00
ATOM	484	HG3	PRO	X	32	47.272	64.536	48.032	0.00	0.00
ATOM	485	CB	PRO	X	32	45.077	64.145	47.986	0.00	0.00
ATOM	486	HB2	PRO	X	32	44.256	64.848	47.848	0.00	0.00
ATOM	487	HB3	PRO	X	32	45.040	63.856	49.037	0.00	0.00
ATOM	488	CA	PRO	X	32	44.921	62.918	47.049	0.00	0.00
ATOM	489	HA	PRO	X	32	45.119	61.989	47.583	0.00	0.00
ATOM	490	C	PRO	X	32	43.471	62.966	46.372	0.00	0.00
ATOM	491	O	PRO	X	32	42.958	63.920	45.823	0.00	0.00
ATOM	492	N	PHE	X	33	42.813	61.864	46.581	0.00	0.00
ATOM	493	H	PHE	X	33	43.304	61.034	46.880	0.00	0.00
ATOM	494	CA	PHE	X	33	41.364	61.568	46.272	0.00	0.00
ATOM	495	HA	PHE	X	33	40.958	62.335	45.612	0.00	0.00
ATOM	496	CB	PHE	X	33	41.282	60.275	45.409	0.00	0.00
ATOM	497	HB2	PHE	X	33	40.361	60.310	44.827	0.00	0.00
ATOM	498	HB3	PHE	X	33	42.080	60.100	44.687	0.00	0.00
ATOM	499	CG	PHE	X	33	41.438	59.004	46.181	0.00	0.00
ATOM	500	CD1	PHE	X	33	40.286	58.295	46.532	0.00	0.00
ATOM	501	HD1	PHE	X	33	39.305	58.706	46.345	0.00	0.00
ATOM	502	CE1	PHE	X	33	40.351	57.057	47.173	0.00	0.00
ATOM	503	HE1	PHE	X	33	39.420	56.574	47.429	0.00	0.00
ATOM	504	CZ	PHE	X	33	41.578	56.438	47.409	0.00	0.00
ATOM	505	HZ	PHE	X	33	41.602	55.456	47.858	0.00	0.00
ATOM	506	CE2	PHE	X	33	42.721	57.035	46.936	0.00	0.00
ATOM	507	HE2	PHE	X	33	43.705	56.621	47.104	0.00	0.00
ATOM	508	CD2	PHE	X	33	42.668	58.289	46.305	0.00	0.00
ATOM	509	HD2	PHE	X	33	43.617	58.662	45.948	0.00	0.00
ATOM	510	C	PHE	X	33	40.445	61.542	47.532	0.00	0.00
ATOM	511	O	PHE	X	33	39.243	61.782	47.427	0.00	0.00
ATOM	512	N	ALA	X	34	40.994	61.496	48.722	0.00	0.00
ATOM	513	H	ALA	X	34	42.003	61.512	48.760	0.00	0.00
ATOM	514	CA	ALA	X	34	40.318	61.449	50.025	0.00	0.00
ATOM	515	HA	ALA	X	34	39.348	61.925	49.878	0.00	0.00
ATOM	516	CB	ALA	X	34	40.236	59.955	50.413	0.00	0.00
ATOM	517	HB1	ALA	X	34	39.581	59.463	49.694	0.00	0.00
ATOM	518	HB2	ALA	X	34	41.234	59.516	50.449	0.00	0.00
ATOM	519	HB3	ALA	X	34	39.662	59.953	51.339	0.00	0.00
ATOM	520	C	ALA	X	34	40.997	62.162	51.275	0.00	0.00
ATOM	521	O	ALA	X	34	42.201	62.282	51.371	0.00	0.00
ATOM	522	N	GLU	X	35	40.200	62.399	52.322	0.00	0.00
ATOM	523	H	GLU	X	35	39.236	62.104	52.371	0.00	0.00
ATOM	524	CA	GLU	X	35	40.584	62.689	53.648	0.00	0.00
ATOM	525	HA	GLU	X	35	41.309	63.501	53.605	0.00	0.00
ATOM	526	CB	GLU	X	35	39.358	62.971	54.530	0.00	0.00
ATOM	527	HB2	GLU	X	35	38.621	62.178	54.656	0.00	0.00
ATOM	528	HB3	GLU	X	35	39.779	63.245	55.497	0.00	0.00
ATOM	529	CG	GLU	X	35	38.600	64.293	54.140	0.00	0.00
ATOM	530	HG2	GLU	X	35	37.980	64.281	53.245	0.00	0.00
ATOM	531	HG3	GLU	X	35	37.905	64.572	54.932	0.00	0.00

ATOM	532	CD	GLU	X	35	39.656	65.404	54.008	0.00	0.00
ATOM	533	OE1	GLU	X	35	40.198	65.565	52.888	0.00	0.00
ATOM	534	OE2	GLU	X	35	39.965	66.044	55.030	0.00	0.00
ATOM	535	C	GLU	X	35	41.348	61.506	54.268	0.00	0.00
ATOM	536	O	GLU	X	35	41.033	60.401	53.939	0.00	0.00
ATOM	537	N	PRO	X	36	42.437	61.718	55.041	0.00	0.00
ATOM	538	CD	PRO	X	36	42.856	63.012	55.501	0.00	0.00
ATOM	539	HD2	PRO	X	36	42.036	63.614	55.892	0.00	0.00
ATOM	540	HD3	PRO	X	36	43.426	63.546	54.741	0.00	0.00
ATOM	541	CG	PRO	X	36	43.630	62.746	56.798	0.00	0.00
ATOM	542	HG2	PRO	X	36	43.024	62.611	57.693	0.00	0.00
ATOM	543	HG3	PRO	X	36	44.503	63.382	56.947	0.00	0.00
ATOM	544	CB	PRO	X	36	44.220	61.382	56.459	0.00	0.00
ATOM	545	HB2	PRO	X	36	44.424	60.858	57.394	0.00	0.00
ATOM	546	HB3	PRO	X	36	45.138	61.466	55.877	0.00	0.00
ATOM	547	CA	PRO	X	36	43.169	60.582	55.628	0.00	0.00
ATOM	548	HA	PRO	X	36	43.591	60.076	54.760	0.00	0.00
ATOM	549	C	PRO	X	36	42.182	59.627	56.461	0.00	0.00
ATOM	550	O	PRO	X	36	41.201	60.083	57.080	0.00	0.00
ATOM	551	N	PRO	X	37	42.337	58.287	56.307	0.00	0.00
ATOM	552	CD	PRO	X	37	43.380	57.686	55.607	0.00	0.00
ATOM	553	HD2	PRO	X	37	44.338	57.829	56.108	0.00	0.00
ATOM	554	HD3	PRO	X	37	43.330	57.950	54.551	0.00	0.00
ATOM	555	CG	PRO	X	37	43.111	56.111	55.724	0.00	0.00
ATOM	556	HG2	PRO	X	37	43.696	55.700	56.546	0.00	0.00
ATOM	557	HG3	PRO	X	37	43.297	55.706	54.729	0.00	0.00
ATOM	558	CB	PRO	X	37	41.601	56.087	56.086	0.00	0.00
ATOM	559	HB2	PRO	X	37	41.305	55.126	56.508	0.00	0.00
ATOM	560	HB3	PRO	X	37	41.030	56.303	55.183	0.00	0.00
ATOM	561	CA	PRO	X	37	41.410	57.329	56.965	0.00	0.00
ATOM	562	HA	PRO	X	37	40.364	57.627	56.889	0.00	0.00
ATOM	563	C	PRO	X	37	41.845	57.000	58.360	0.00	0.00
ATOM	564	O	PRO	X	37	41.384	55.965	58.867	0.00	0.00
ATOM	565	N	MET	X	38	42.690	57.815	59.084	0.00	0.00
ATOM	566	H	MET	X	38	42.972	58.712	58.714	0.00	0.00
ATOM	567	CA	MET	X	38	43.304	57.345	60.329	0.00	0.00
ATOM	568	HA	MET	X	38	43.520	56.284	60.202	0.00	0.00
ATOM	569	CB	MET	X	38	44.674	58.037	60.553	0.00	0.00
ATOM	570	HB2	MET	X	38	45.200	57.585	61.394	0.00	0.00
ATOM	571	HB3	MET	X	38	45.210	58.059	59.605	0.00	0.00
ATOM	572	CG	MET	X	38	44.610	59.550	60.971	0.00	0.00
ATOM	573	HG2	MET	X	38	44.103	60.168	60.230	0.00	0.00
ATOM	574	HG3	MET	X	38	44.193	59.705	61.967	0.00	0.00
ATOM	575	SD	MET	X	38	46.311	60.149	61.157	0.00	0.00
ATOM	576	CE	MET	X	38	46.897	60.000	59.437	0.00	0.00
ATOM	577	HE1	MET	X	38	47.869	60.468	59.279	0.00	0.00
ATOM	578	HE2	MET	X	38	46.989	58.935	59.224	0.00	0.00
ATOM	579	HE3	MET	X	38	46.256	60.510	58.718	0.00	0.00
ATOM	580	C	MET	X	38	42.432	57.642	61.563	0.00	0.00
ATOM	581	O	MET	X	38	41.584	58.539	61.540	0.00	0.00
ATOM	582	N	GLY	X	39	42.721	56.997	62.693	0.00	0.00
ATOM	583	H	GLY	X	39	43.489	56.343	62.733	0.00	0.00
ATOM	584	CA	GLY	X	39	42.202	57.477	64.012	0.00	0.00
ATOM	585	HA2	GLY	X	39	42.618	56.859	64.808	0.00	0.00
ATOM	586	HA3	GLY	X	39	42.544	58.436	64.169	0.00	0.00
ATOM	587	C	GLY	X	39	40.686	57.429	64.133	0.00	0.00
ATOM	588	O	GLY	X	39	40.163	56.304	64.247	0.00	0.00
ATOM	589	N	PRO	X	40	39.897	58.497	63.974	0.00	0.00
ATOM	590	CD	PRO	X	40	40.288	59.921	64.022	0.00	0.00
ATOM	591	HD2	PRO	X	40	40.554	60.363	63.061	0.00	0.00
ATOM	592	HD3	PRO	X	40	41.111	60.053	64.725	0.00	0.00
ATOM	593	CG	PRO	X	40	39.016	60.648	64.566	0.00	0.00
ATOM	594	HG2	PRO	X	40	38.994	61.649	64.135	0.00	0.00
ATOM	595	HG3	PRO	X	40	39.108	60.777	65.645	0.00	0.00
ATOM	596	CB	PRO	X	40	37.875	59.778	64.171	0.00	0.00
ATOM	597	HB2	PRO	X	40	37.415	60.044	63.220	0.00	0.00
ATOM	598	HB3	PRO	X	40	37.153	59.976	64.964	0.00	0.00
ATOM	599	CA	PRO	X	40	38.437	58.370	64.188	0.00	0.00
ATOM	600	HA	PRO	X	40	38.269	57.967	65.186	0.00	0.00
ATOM	601	C	PRO	X	40	37.895	57.617	63.050	0.00	0.00

ATOM	602	O	PRO	X	40	36.924	56.935	63.284	0.00	0.00
ATOM	603	N	ARG	X	41	38.439	57.775	61.812	0.00	0.00
ATOM	604	H	ARG	X	41	39.213	58.392	61.612	0.00	0.00
ATOM	605	CA	ARG	X	41	37.956	57.098	60.606	0.00	0.00
ATOM	606	HA	ARG	X	41	36.870	57.059	60.688	0.00	0.00
ATOM	607	CB	ARG	X	41	38.246	57.861	59.265	0.00	0.00
ATOM	608	HB2	ARG	X	41	39.298	58.117	59.393	0.00	0.00
ATOM	609	HB3	ARG	X	41	38.160	57.119	58.471	0.00	0.00
ATOM	610	CG	ARG	X	41	37.314	59.060	59.129	0.00	0.00
ATOM	611	HG2	ARG	X	41	36.276	58.728	59.149	0.00	0.00
ATOM	612	HG3	ARG	X	41	37.513	59.860	59.843	0.00	0.00
ATOM	613	CD	ARG	X	41	37.673	59.614	57.701	0.00	0.00
ATOM	614	HD2	ARG	X	41	38.762	59.601	57.661	0.00	0.00
ATOM	615	HD3	ARG	X	41	37.249	58.938	56.958	0.00	0.00
ATOM	616	NE	ARG	X	41	37.175	60.997	57.550	0.00	0.00
ATOM	617	HE	ARG	X	41	36.177	61.140	57.500	0.00	0.00
ATOM	618	CZ	ARG	X	41	37.960	62.055	57.692	0.00	0.00
ATOM	619	NH1	ARG	X	41	39.257	61.959	57.807	0.00	0.00
ATOM	620	HH11	ARG	X	41	39.710	61.092	58.060	0.00	0.00
ATOM	621	HH12	ARG	X	41	39.783	62.815	57.913	0.00	0.00
ATOM	622	NH2	ARG	X	41	37.424	63.275	57.620	0.00	0.00
ATOM	623	HH21	ARG	X	41	36.503	63.332	57.211	0.00	0.00
ATOM	624	HH22	ARG	X	41	37.981	64.114	57.694	0.00	0.00
ATOM	625	C	ARG	X	41	38.469	55.696	60.560	0.00	0.00
ATOM	626	O	ARG	X	41	38.168	54.945	59.630	0.00	0.00
ATOM	627	N	ARG	X	42	39.351	55.204	61.491	0.00	0.00
ATOM	628	H	ARG	X	42	39.547	55.825	62.262	0.00	0.00
ATOM	629	CA	ARG	X	42	39.838	53.859	61.459	0.00	0.00
ATOM	630	HA	ARG	X	42	40.354	53.691	60.513	0.00	0.00
ATOM	631	CB	ARG	X	42	40.861	53.624	62.569	0.00	0.00
ATOM	632	HB2	ARG	X	42	41.461	54.534	62.602	0.00	0.00
ATOM	633	HB3	ARG	X	42	40.364	53.603	63.539	0.00	0.00
ATOM	634	CG	ARG	X	42	41.703	52.383	62.336	0.00	0.00
ATOM	635	HG2	ARG	X	42	41.153	51.486	62.052	0.00	0.00
ATOM	636	HG3	ARG	X	42	42.392	52.606	61.522	0.00	0.00
ATOM	637	CD	ARG	X	42	42.466	52.106	63.672	0.00	0.00
ATOM	638	HD2	ARG	X	42	41.740	52.307	64.460	0.00	0.00
ATOM	639	HD3	ARG	X	42	42.828	51.078	63.675	0.00	0.00
ATOM	640	NE	ARG	X	42	43.579	53.080	63.878	0.00	0.00
ATOM	641	HE	ARG	X	42	43.760	53.776	63.170	0.00	0.00
ATOM	642	CZ	ARG	X	42	44.390	53.126	64.903	0.00	0.00
ATOM	643	NH1	ARG	X	42	44.197	52.346	65.958	0.00	0.00
ATOM	644	HH11	ARG	X	42	43.623	51.517	65.896	0.00	0.00
ATOM	645	HH12	ARG	X	42	44.663	52.458	66.847	0.00	0.00
ATOM	646	NH2	ARG	X	42	45.316	54.061	64.954	0.00	0.00
ATOM	647	HH21	ARG	X	42	45.682	54.460	64.101	0.00	0.00
ATOM	648	HH22	ARG	X	42	45.746	54.365	65.815	0.00	0.00
ATOM	649	C	ARG	X	42	38.755	52.780	61.473	0.00	0.00
ATOM	650	O	ARG	X	42	37.752	52.923	62.214	0.00	0.00
ATOM	651	N	PHE	X	43	38.781	51.851	60.504	0.00	0.00
ATOM	652	H	PHE	X	43	39.648	51.904	59.988	0.00	0.00
ATOM	653	CA	PHE	X	43	37.828	50.857	60.084	0.00	0.00
ATOM	654	HA	PHE	X	43	38.271	50.222	59.316	0.00	0.00
ATOM	655	CB	PHE	X	43	37.490	49.932	61.248	0.00	0.00
ATOM	656	HB2	PHE	X	43	36.714	50.414	61.842	0.00	0.00
ATOM	657	HB3	PHE	X	43	37.061	49.010	60.856	0.00	0.00
ATOM	658	CG	PHE	X	43	38.575	49.522	62.138	0.00	0.00
ATOM	659	CD1	PHE	X	43	39.709	48.730	61.675	0.00	0.00
ATOM	660	HD1	PHE	X	43	39.762	48.376	60.656	0.00	0.00
ATOM	661	CE1	PHE	X	43	40.834	48.417	62.508	0.00	0.00
ATOM	662	HE1	PHE	X	43	41.714	47.905	62.149	0.00	0.00
ATOM	663	CZ	PHE	X	43	40.731	48.795	63.832	0.00	0.00
ATOM	664	HZ	PHE	X	43	41.561	48.480	64.447	0.00	0.00
ATOM	665	CE2	PHE	X	43	39.678	49.608	64.286	0.00	0.00
ATOM	666	HE2	PHE	X	43	39.579	49.832	65.338	0.00	0.00
ATOM	667	CD2	PHE	X	43	38.538	49.837	63.492	0.00	0.00
ATOM	668	HD2	PHE	X	43	37.768	50.459	63.923	0.00	0.00
ATOM	669	C	PHE	X	43	36.575	51.479	59.369	0.00	0.00
ATOM	670	O	PHE	X	43	35.815	50.666	58.844	0.00	0.00
ATOM	671	N	LEU	X	44	36.368	52.796	59.414	0.00	0.00

ATOM	672	H	LEU	X	44	37.025	53.378	59.914	0.00	0.00
ATOM	673	CA	LEU	X	44	35.123	53.414	58.888	0.00	0.00
ATOM	674	HA	LEU	X	44	34.296	52.706	58.941	0.00	0.00
ATOM	675	CB	LEU	X	44	34.718	54.722	59.708	0.00	0.00
ATOM	676	HB2	LEU	X	44	35.645	55.291	59.626	0.00	0.00
ATOM	677	HB3	LEU	X	44	33.934	55.305	59.225	0.00	0.00
ATOM	678	CG	LEU	X	44	34.324	54.525	61.181	0.00	0.00
ATOM	679	HG	LEU	X	44	35.226	54.099	61.620	0.00	0.00
ATOM	680	CD1	LEU	X	44	34.011	55.875	61.844	0.00	0.00
ATOM	681	HD11	LEU	X	44	33.007	56.215	61.590	0.00	0.00
ATOM	682	HD12	LEU	X	44	34.122	55.704	62.915	0.00	0.00
ATOM	683	HD13	LEU	X	44	34.753	56.606	61.521	0.00	0.00
ATOM	684	CD2	LEU	X	44	33.200	53.505	61.443	0.00	0.00
ATOM	685	HD21	LEU	X	44	33.586	52.493	61.326	0.00	0.00
ATOM	686	HD22	LEU	X	44	32.887	53.598	62.483	0.00	0.00
ATOM	687	HD23	LEU	X	44	32.263	53.626	60.900	0.00	0.00
ATOM	688	C	LEU	X	44	35.186	53.705	57.400	0.00	0.00
ATOM	689	O	LEU	X	44	36.257	53.666	56.834	0.00	0.00
ATOM	690	N	PRO	X	45	34.020	53.894	56.692	0.00	0.00
ATOM	691	CD	PRO	X	45	32.673	53.698	57.138	0.00	0.00
ATOM	692	HD2	PRO	X	45	32.557	53.900	58.203	0.00	0.00
ATOM	693	HD3	PRO	X	45	32.492	52.651	56.896	0.00	0.00
ATOM	694	CG	PRO	X	45	31.715	54.619	56.256	0.00	0.00
ATOM	695	HG2	PRO	X	45	31.668	55.663	56.565	0.00	0.00
ATOM	696	HG3	PRO	X	45	30.710	54.254	56.041	0.00	0.00
ATOM	697	CB	PRO	X	45	32.535	54.618	54.911	0.00	0.00
ATOM	698	HB2	PRO	X	45	32.555	55.553	54.351	0.00	0.00
ATOM	699	HB3	PRO	X	45	32.149	53.846	54.245	0.00	0.00
ATOM	700	CA	PRO	X	45	34.024	54.404	55.307	0.00	0.00
ATOM	701	HA	PRO	X	45	34.506	53.631	54.708	0.00	0.00
ATOM	702	C	PRO	X	45	34.862	55.652	55.081	0.00	0.00
ATOM	703	O	PRO	X	45	34.792	56.499	55.992	0.00	0.00
ATOM	704	N	PRO	X	46	35.524	55.944	53.954	0.00	0.00
ATOM	705	CD	PRO	X	46	35.590	55.014	52.785	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.663	54.672	52.326	0.00	0.00
ATOM	707	HD3	PRO	X	46	36.238	54.209	53.131	0.00	0.00
ATOM	708	CG	PRO	X	46	36.405	55.795	51.759	0.00	0.00
ATOM	709	HG2	PRO	X	46	35.738	56.288	51.051	0.00	0.00
ATOM	710	HG3	PRO	X	46	36.981	55.104	51.144	0.00	0.00
ATOM	711	CB	PRO	X	46	37.201	56.818	52.600	0.00	0.00
ATOM	712	HB2	PRO	X	46	37.508	57.685	52.015	0.00	0.00
ATOM	713	HB3	PRO	X	46	38.109	56.381	53.014	0.00	0.00
ATOM	714	CA	PRO	X	46	36.264	57.199	53.698	0.00	0.00
ATOM	715	HA	PRO	X	46	36.733	57.438	54.653	0.00	0.00
ATOM	716	C	PRO	X	46	35.331	58.375	53.328	0.00	0.00
ATOM	717	O	PRO	X	46	34.142	58.203	53.259	0.00	0.00
ATOM	718	N	GLU	X	47	35.911	59.507	52.932	0.00	0.00
ATOM	719	H	GLU	X	47	36.906	59.451	52.770	0.00	0.00
ATOM	720	CA	GLU	X	47	35.252	60.620	52.313	0.00	0.00
ATOM	721	HA	GLU	X	47	34.351	60.242	51.831	0.00	0.00
ATOM	722	CB	GLU	X	47	34.727	61.623	53.345	0.00	0.00
ATOM	723	HB2	GLU	X	47	34.180	62.426	52.851	0.00	0.00
ATOM	724	HB3	GLU	X	47	34.117	61.014	54.012	0.00	0.00
ATOM	725	CG	GLU	X	47	35.771	62.270	54.253	0.00	0.00
ATOM	726	HG2	GLU	X	47	36.275	61.501	54.838	0.00	0.00
ATOM	727	HG3	GLU	X	47	36.497	62.666	53.543	0.00	0.00
ATOM	728	CD	GLU	X	47	35.005	63.169	55.172	0.00	0.00
ATOM	729	OE1	GLU	X	47	35.080	62.922	56.390	0.00	0.00
ATOM	730	OE2	GLU	X	47	34.467	64.166	54.606	0.00	0.00
ATOM	731	C	GLU	X	47	36.194	61.288	51.328	0.00	0.00
ATOM	732	O	GLU	X	47	37.469	61.372	51.456	0.00	0.00
ATOM	733	N	PRO	X	48	35.603	61.906	50.270	0.00	0.00
ATOM	734	CD	PRO	X	48	34.256	61.821	49.753	0.00	0.00
ATOM	735	HD2	PRO	X	48	33.501	62.279	50.391	0.00	0.00
ATOM	736	HD3	PRO	X	48	34.003	60.763	49.684	0.00	0.00
ATOM	737	CG	PRO	X	48	34.219	62.502	48.343	0.00	0.00
ATOM	738	HG2	PRO	X	48	33.535	63.351	48.338	0.00	0.00
ATOM	739	HG3	PRO	X	48	33.957	61.696	47.658	0.00	0.00
ATOM	740	CB	PRO	X	48	35.574	62.870	48.093	0.00	0.00
ATOM	741	HB2	PRO	X	48	35.542	63.956	48.008	0.00	0.00

ATOM	742	HB3	PRO	X	48	36.085	62.506	47.202	0.00	0.00
ATOM	743	CA	PRO	X	48	36.376	62.549	49.246	0.00	0.00
ATOM	744	HA	PRO	X	48	37.107	61.865	48.813	0.00	0.00
ATOM	745	C	PRO	X	48	37.138	63.806	49.744	0.00	0.00
ATOM	746	O	PRO	X	48	36.604	64.620	50.381	0.00	0.00
ATOM	747	N	LYS	X	49	38.378	64.003	49.194	0.00	0.00
ATOM	748	H	LYS	X	49	38.795	63.270	48.638	0.00	0.00
ATOM	749	CA	LYS	X	49	39.295	65.143	49.438	0.00	0.00
ATOM	750	HA	LYS	X	49	39.927	64.874	50.284	0.00	0.00
ATOM	751	CB	LYS	X	49	40.301	65.131	48.315	0.00	0.00
ATOM	752	HB2	LYS	X	49	40.949	64.258	48.392	0.00	0.00
ATOM	753	HB3	LYS	X	49	39.830	64.931	47.352	0.00	0.00
ATOM	754	CG	LYS	X	49	41.375	66.255	48.255	0.00	0.00
ATOM	755	HG2	LYS	X	49	42.031	66.096	47.400	0.00	0.00
ATOM	756	HG3	LYS	X	49	40.860	67.162	47.941	0.00	0.00
ATOM	757	CD	LYS	X	49	42.112	66.535	49.563	0.00	0.00
ATOM	758	HD2	LYS	X	49	41.431	67.016	50.264	0.00	0.00
ATOM	759	HD3	LYS	X	49	42.488	65.627	50.034	0.00	0.00
ATOM	760	CE	LYS	X	49	43.231	67.498	49.376	0.00	0.00
ATOM	761	HE2	LYS	X	49	43.872	67.064	48.608	0.00	0.00
ATOM	762	HE3	LYS	X	49	42.989	68.493	49.003	0.00	0.00
ATOM	763	NZ	LYS	X	49	43.992	67.732	50.616	0.00	0.00
ATOM	764	HZ1	LYS	X	49	44.823	68.294	50.499	0.00	0.00
ATOM	765	HZ2	LYS	X	49	43.351	68.383	51.046	0.00	0.00
ATOM	766	HZ3	LYS	X	49	44.062	66.909	51.198	0.00	0.00
ATOM	767	C	LYS	X	49	38.602	66.481	49.637	0.00	0.00
ATOM	768	O	LYS	X	49	37.932	67.046	48.790	0.00	0.00
ATOM	769	N	GLN	X	50	38.765	67.146	50.820	0.00	0.00
ATOM	770	H	GLN	X	50	39.203	66.764	51.646	0.00	0.00
ATOM	771	CA	GLN	X	50	38.551	68.586	50.932	0.00	0.00
ATOM	772	HA	GLN	X	50	37.470	68.706	50.865	0.00	0.00
ATOM	773	CB	GLN	X	50	39.149	69.076	52.312	0.00	0.00
ATOM	774	HB2	GLN	X	50	40.015	68.447	52.520	0.00	0.00
ATOM	775	HB3	GLN	X	50	39.515	70.097	52.206	0.00	0.00
ATOM	776	CG	GLN	X	50	38.178	68.769	53.471	0.00	0.00
ATOM	777	HG2	GLN	X	50	37.165	69.147	53.331	0.00	0.00
ATOM	778	HG3	GLN	X	50	37.966	67.726	53.706	0.00	0.00
ATOM	779	CD	GLN	X	50	38.639	69.357	54.754	0.00	0.00
ATOM	780	OE1	GLN	X	50	38.406	70.567	55.032	0.00	0.00
ATOM	781	NE2	GLN	X	50	39.465	68.649	55.473	0.00	0.00
ATOM	782	HE21	GLN	X	50	39.847	69.044	56.321	0.00	0.00
ATOM	783	HE22	GLN	X	50	39.623	67.692	55.192	0.00	0.00
ATOM	784	C	GLN	X	50	39.295	69.400	49.840	0.00	0.00
ATOM	785	O	GLN	X	50	40.504	69.242	49.834	0.00	0.00
ATOM	786	N	PRO	X	51	38.701	70.277	49.013	0.00	0.00
ATOM	787	CD	PRO	X	51	37.225	70.390	48.795	0.00	0.00
ATOM	788	HD2	PRO	X	51	36.620	70.415	49.702	0.00	0.00
ATOM	789	HD3	PRO	X	51	36.765	69.591	48.213	0.00	0.00
ATOM	790	CG	PRO	X	51	37.023	71.733	48.117	0.00	0.00
ATOM	791	HG2	PRO	X	51	37.034	72.599	48.779	0.00	0.00
ATOM	792	HG3	PRO	X	51	36.128	71.877	47.511	0.00	0.00
ATOM	793	CB	PRO	X	51	38.300	71.983	47.306	0.00	0.00
ATOM	794	HB2	PRO	X	51	38.445	73.061	47.372	0.00	0.00
ATOM	795	HB3	PRO	X	51	38.289	71.665	46.263	0.00	0.00
ATOM	796	CA	PRO	X	51	39.398	71.210	48.103	0.00	0.00
ATOM	797	HA	PRO	X	51	39.957	70.562	47.428	0.00	0.00
ATOM	798	C	PRO	X	51	40.328	72.082	48.799	0.00	0.00
ATOM	799	O	PRO	X	51	40.264	72.313	49.975	0.00	0.00
ATOM	800	N	TRP	X	52	41.300	72.600	48.023	0.00	0.00
ATOM	801	H	TRP	X	52	41.358	72.280	47.067	0.00	0.00
ATOM	802	CA	TRP	X	52	42.455	73.404	48.453	0.00	0.00
ATOM	803	HA	TRP	X	52	42.232	73.776	49.453	0.00	0.00
ATOM	804	CB	TRP	X	52	43.807	72.582	48.451	0.00	0.00
ATOM	805	HB2	TRP	X	52	44.658	73.219	48.691	0.00	0.00
ATOM	806	HB3	TRP	X	52	43.703	71.755	49.154	0.00	0.00
ATOM	807	CG	TRP	X	52	44.146	72.005	47.146	0.00	0.00
ATOM	808	CD1	TRP	X	52	44.959	72.693	46.298	0.00	0.00
ATOM	809	HD1	TRP	X	52	45.374	73.665	46.523	0.00	0.00
ATOM	810	NE1	TRP	X	52	45.144	71.913	45.137	0.00	0.00
ATOM	811	HE1	TRP	X	52	45.853	72.117	44.448	0.00	0.00

ATOM	812	CE2	TRP	X	52	44.513	70.694	45.185	0.00	0.00
ATOM	813	CZ2	TRP	X	52	44.470	69.548	44.396	0.00	0.00
ATOM	814	HZ2	TRP	X	52	45.171	69.441	43.581	0.00	0.00
ATOM	815	CH2	TRP	X	52	43.490	68.541	44.630	0.00	0.00
ATOM	816	HH2	TRP	X	52	43.437	67.642	44.034	0.00	0.00
ATOM	817	CZ3	TRP	X	52	42.835	68.626	45.843	0.00	0.00
ATOM	818	HZ3	TRP	X	52	42.224	67.806	46.190	0.00	0.00
ATOM	819	CE3	TRP	X	52	42.975	69.729	46.759	0.00	0.00
ATOM	820	HE3	TRP	X	52	42.334	69.791	47.626	0.00	0.00
ATOM	821	CD2	TRP	X	52	43.872	70.723	46.473	0.00	0.00
ATOM	822	C	TRP	X	52	42.745	74.550	47.483	0.00	0.00
ATOM	823	O	TRP	X	52	42.260	74.685	46.347	0.00	0.00
ATOM	824	N	SER	X	53	43.570	75.481	47.872	0.00	0.00
ATOM	825	H	SER	X	53	43.971	75.432	48.797	0.00	0.00
ATOM	826	CA	SER	X	53	44.074	76.720	47.158	0.00	0.00
ATOM	827	HA	SER	X	53	43.258	76.915	46.463	0.00	0.00
ATOM	828	CB	SER	X	53	44.124	77.925	48.117	0.00	0.00
ATOM	829	HB2	SER	X	53	44.917	77.747	48.844	0.00	0.00
ATOM	830	HB3	SER	X	53	44.241	78.853	47.557	0.00	0.00
ATOM	831	OG	SER	X	53	42.907	78.187	48.811	0.00	0.00
ATOM	832	HG	SER	X	53	42.846	77.459	49.433	0.00	0.00
ATOM	833	C	SER	X	53	45.357	76.477	46.392	0.00	0.00
ATOM	834	O	SER	X	53	46.301	75.818	46.865	0.00	0.00
ATOM	835	N	GLY	X	54	45.539	76.939	45.142	0.00	0.00
ATOM	836	H	GLY	X	54	44.934	77.670	44.796	0.00	0.00
ATOM	837	CA	GLY	X	54	46.800	76.801	44.411	0.00	0.00
ATOM	838	HA2	GLY	X	54	46.665	77.369	43.408	0.00	0.00
ATOM	839	HA3	GLY	X	54	47.672	77.295	44.916	0.00	0.00
ATOM	840	C	GLY	X	54	47.115	75.337	44.114	0.00	0.00
ATOM	841	O	GLY	X	54	46.206	74.528	44.040	0.00	0.00
ATOM	842	N	VAL	X	55	48.361	75.036	43.901	0.00	0.00
ATOM	843	H	VAL	X	55	49.092	75.713	44.065	0.00	0.00
ATOM	844	CA	VAL	X	55	48.796	73.700	43.519	0.00	0.00
ATOM	845	HA	VAL	X	55	47.949	73.285	42.974	0.00	0.00
ATOM	846	CB	VAL	X	55	50.029	73.806	42.591	0.00	0.00
ATOM	847	HB	VAL	X	55	50.850	74.329	43.082	0.00	0.00
ATOM	848	CG1	VAL	X	55	50.522	72.438	42.197	0.00	0.00
ATOM	849	HG11	VAL	X	55	49.764	71.791	41.757	0.00	0.00
ATOM	850	HG12	VAL	X	55	51.309	72.560	41.453	0.00	0.00
ATOM	851	HG13	VAL	X	55	50.961	71.981	43.085	0.00	0.00
ATOM	852	CG2	VAL	X	55	49.757	74.584	41.252	0.00	0.00
ATOM	853	HG21	VAL	X	55	50.569	74.661	40.530	0.00	0.00
ATOM	854	HG22	VAL	X	55	48.843	74.257	40.756	0.00	0.00
ATOM	855	HG23	VAL	X	55	49.493	75.618	41.474	0.00	0.00
ATOM	856	C	VAL	X	55	49.077	72.845	44.733	0.00	0.00
ATOM	857	O	VAL	X	55	49.508	73.341	45.763	0.00	0.00
ATOM	858	N	VAL	X	56	48.763	71.603	44.598	0.00	0.00
ATOM	859	H	VAL	X	56	48.355	71.268	43.737	0.00	0.00
ATOM	860	CA	VAL	X	56	49.248	70.525	45.448	0.00	0.00
ATOM	861	HA	VAL	X	56	49.883	70.863	46.267	0.00	0.00
ATOM	862	CB	VAL	X	56	48.072	69.738	46.031	0.00	0.00
ATOM	863	HB	VAL	X	56	47.350	69.617	45.223	0.00	0.00
ATOM	864	CG1	VAL	X	56	48.400	68.325	46.546	0.00	0.00
ATOM	865	HG11	VAL	X	56	48.511	67.664	45.686	0.00	0.00
ATOM	866	HG12	VAL	X	56	49.314	68.393	47.136	0.00	0.00
ATOM	867	HG13	VAL	X	56	47.530	67.909	47.054	0.00	0.00
ATOM	868	CG2	VAL	X	56	47.466	70.509	47.165	0.00	0.00
ATOM	869	HG21	VAL	X	56	47.385	71.570	46.931	0.00	0.00
ATOM	870	HG22	VAL	X	56	46.437	70.199	47.351	0.00	0.00
ATOM	871	HG23	VAL	X	56	48.047	70.508	48.088	0.00	0.00
ATOM	872	C	VAL	X	56	50.160	69.636	44.595	0.00	0.00
ATOM	873	O	VAL	X	56	49.817	69.137	43.563	0.00	0.00
ATOM	874	N	ASP	X	57	51.450	69.609	44.905	0.00	0.00
ATOM	875	H	ASP	X	57	51.727	70.146	45.714	0.00	0.00
ATOM	876	CA	ASP	X	57	52.433	68.763	44.244	0.00	0.00
ATOM	877	HA	ASP	X	57	52.552	69.270	43.287	0.00	0.00
ATOM	878	CB	ASP	X	57	53.760	68.793	44.967	0.00	0.00
ATOM	879	HB2	ASP	X	57	54.041	69.824	45.183	0.00	0.00
ATOM	880	HB3	ASP	X	57	53.740	68.370	45.971	0.00	0.00
ATOM	881	CG	ASP	X	57	54.841	68.091	44.123	0.00	0.00

ATOM	882	OD1	ASP	X	57	54.961	66.853	44.171	0.00	0.00
ATOM	883	OD2	ASP	X	57	55.471	68.833	43.303	0.00	0.00
ATOM	884	C	ASP	X	57	52.032	67.230	44.166	0.00	0.00
ATOM	885	O	ASP	X	57	51.636	66.677	45.172	0.00	0.00
ATOM	886	N	ALA	X	58	52.161	66.627	42.976	0.00	0.00
ATOM	887	H	ALA	X	58	52.521	67.243	42.261	0.00	0.00
ATOM	888	CA	ALA	X	58	51.996	65.200	42.655	0.00	0.00
ATOM	889	HA	ALA	X	58	51.950	64.604	43.566	0.00	0.00
ATOM	890	CB	ALA	X	58	50.628	65.065	42.026	0.00	0.00
ATOM	891	HB1	ALA	X	58	50.644	65.711	41.149	0.00	0.00
ATOM	892	HB2	ALA	X	58	50.533	64.014	41.754	0.00	0.00
ATOM	893	HB3	ALA	X	58	49.922	65.383	42.794	0.00	0.00
ATOM	894	C	ALA	X	58	53.095	64.677	41.779	0.00	0.00
ATOM	895	O	ALA	X	58	52.859	64.119	40.722	0.00	0.00
ATOM	896	N	THR	X	59	54.274	65.120	41.972	0.00	0.00
ATOM	897	H	THR	X	59	54.407	65.782	42.723	0.00	0.00
ATOM	898	CA	THR	X	59	55.484	64.676	41.329	0.00	0.00
ATOM	899	HA	THR	X	59	55.328	64.585	40.254	0.00	0.00
ATOM	900	CB	THR	X	59	56.490	65.826	41.410	0.00	0.00
ATOM	901	HB	THR	X	59	57.393	65.536	40.873	0.00	0.00
ATOM	902	CG2	THR	X	59	56.146	67.101	40.733	0.00	0.00
ATOM	903	HG21	THR	X	59	56.946	67.826	40.882	0.00	0.00
ATOM	904	HG22	THR	X	59	56.049	66.855	39.676	0.00	0.00
ATOM	905	HG23	THR	X	59	55.285	67.664	41.095	0.00	0.00
ATOM	906	OG1	THR	X	59	56.923	66.046	42.783	0.00	0.00
ATOM	907	HG1	THR	X	59	56.145	66.298	43.285	0.00	0.00
ATOM	908	C	THR	X	59	56.170	63.428	41.767	0.00	0.00
ATOM	909	O	THR	X	59	57.218	63.105	41.233	0.00	0.00
ATOM	910	N	THR	X	60	55.630	62.806	42.781	0.00	0.00
ATOM	911	H	THR	X	60	54.827	63.289	43.156	0.00	0.00
ATOM	912	CA	THR	X	60	56.204	61.626	43.482	0.00	0.00
ATOM	913	HA	THR	X	60	56.352	60.819	42.765	0.00	0.00
ATOM	914	CB	THR	X	60	57.512	61.953	44.277	0.00	0.00
ATOM	915	HB	THR	X	60	58.157	62.265	43.456	0.00	0.00
ATOM	916	CG2	THR	X	60	57.406	63.019	45.399	0.00	0.00
ATOM	917	HG21	THR	X	60	56.944	63.928	45.011	0.00	0.00
ATOM	918	HG22	THR	X	60	56.882	62.654	46.282	0.00	0.00
ATOM	919	HG23	THR	X	60	58.440	63.217	45.680	0.00	0.00
ATOM	920	OG1	THR	X	60	57.882	60.763	44.866	0.00	0.00
ATOM	921	HG1	THR	X	60	57.995	60.047	44.236	0.00	0.00
ATOM	922	C	THR	X	60	55.150	61.101	44.510	0.00	0.00
ATOM	923	O	THR	X	60	54.301	61.889	44.906	0.00	0.00
ATOM	924	N	PHE	X	61	55.222	59.817	44.919	0.00	0.00
ATOM	925	H	PHE	X	61	55.986	59.253	44.575	0.00	0.00
ATOM	926	CA	PHE	X	61	54.169	59.169	45.780	0.00	0.00
ATOM	927	HA	PHE	X	61	53.249	59.642	45.437	0.00	0.00
ATOM	928	CB	PHE	X	61	54.344	57.659	45.560	0.00	0.00
ATOM	929	HB2	PHE	X	61	54.646	57.486	44.527	0.00	0.00
ATOM	930	HB3	PHE	X	61	55.139	57.293	46.209	0.00	0.00
ATOM	931	CG	PHE	X	61	53.141	56.981	45.954	0.00	0.00
ATOM	932	CD1	PHE	X	61	52.910	56.415	47.232	0.00	0.00
ATOM	933	HD1	PHE	X	61	53.628	56.472	48.036	0.00	0.00
ATOM	934	CE1	PHE	X	61	51.798	55.650	47.526	0.00	0.00
ATOM	935	HE1	PHE	X	61	51.724	55.156	48.483	0.00	0.00
ATOM	936	CZ	PHE	X	61	50.802	55.501	46.560	0.00	0.00
ATOM	937	HZ	PHE	X	61	49.911	54.965	46.852	0.00	0.00
ATOM	938	CE2	PHE	X	61	50.966	56.082	45.291	0.00	0.00
ATOM	939	HE2	PHE	X	61	50.204	55.908	44.546	0.00	0.00
ATOM	940	CD2	PHE	X	61	52.135	56.866	45.033	0.00	0.00
ATOM	941	HD2	PHE	X	61	52.274	57.341	44.073	0.00	0.00
ATOM	942	C	PHE	X	61	54.428	59.533	47.238	0.00	0.00
ATOM	943	O	PHE	X	61	55.459	60.161	47.649	0.00	0.00
ATOM	944	N	GLN	X	62	53.456	59.251	48.091	0.00	0.00
ATOM	945	H	GLN	X	62	52.713	58.655	47.756	0.00	0.00
ATOM	946	CA	GLN	X	62	53.482	59.678	49.517	0.00	0.00
ATOM	947	HA	GLN	X	62	54.212	60.479	49.636	0.00	0.00
ATOM	948	CB	GLN	X	62	52.111	60.188	49.920	0.00	0.00
ATOM	949	HB2	GLN	X	62	51.349	59.642	49.364	0.00	0.00
ATOM	950	HB3	GLN	X	62	51.960	60.128	50.997	0.00	0.00
ATOM	951	CG	GLN	X	62	51.949	61.682	49.535	0.00	0.00

ATOM	952	HG2	GLN	X	62	52.163	61.874	48.484	0.00	0.00
ATOM	953	HG3	GLN	X	62	50.959	62.088	49.747	0.00	0.00
ATOM	954	CD	GLN	X	62	52.938	62.533	50.310	0.00	0.00
ATOM	955	OE1	GLN	X	62	53.183	62.318	51.451	0.00	0.00
ATOM	956	NE2	GLN	X	62	53.678	63.344	49.556	0.00	0.00
ATOM	957	HE21	GLN	X	62	54.407	63.870	50.016	0.00	0.00
ATOM	958	HE22	GLN	X	62	53.422	63.477	48.588	0.00	0.00
ATOM	959	C	GLN	X	62	53.989	58.382	50.323	0.00	0.00
ATOM	960	O	GLN	X	62	54.818	57.641	49.774	0.00	0.00
ATOM	961	N	SER	X	63	53.404	58.069	51.482	0.00	0.00
ATOM	962	H	SER	X	63	52.658	58.631	51.868	0.00	0.00
ATOM	963	CA	SER	X	63	53.667	56.811	52.189	0.00	0.00
ATOM	964	HA	SER	X	63	54.598	56.432	51.768	0.00	0.00
ATOM	965	CB	SER	X	63	53.747	57.032	53.706	0.00	0.00
ATOM	966	HB2	SER	X	63	52.784	57.234	54.174	0.00	0.00
ATOM	967	HB3	SER	X	63	53.962	56.090	54.211	0.00	0.00
ATOM	968	OG	SER	X	63	54.701	58.096	53.963	0.00	0.00
ATOM	969	HG	SER	X	63	54.278	58.954	53.884	0.00	0.00
ATOM	970	C	SER	X	63	52.579	55.743	51.861	0.00	0.00
ATOM	971	O	SER	X	63	51.686	56.137	51.055	0.00	0.00
ATOM	972	N	VAL	X	64	52.573	54.530	52.358	0.00	0.00
ATOM	973	H	VAL	X	64	53.367	54.299	52.938	0.00	0.00
ATOM	974	CA	VAL	X	64	51.480	53.507	52.176	0.00	0.00
ATOM	975	HA	VAL	X	64	50.709	54.009	51.591	0.00	0.00
ATOM	976	CB	VAL	X	64	52.012	52.248	51.447	0.00	0.00
ATOM	977	HB	VAL	X	64	51.178	51.546	51.449	0.00	0.00
ATOM	978	CG1	VAL	X	64	52.334	52.579	49.979	0.00	0.00
ATOM	979	HG11	VAL	X	64	53.218	52.074	49.589	0.00	0.00
ATOM	980	HG12	VAL	X	64	51.449	52.273	49.422	0.00	0.00
ATOM	981	HG13	VAL	X	64	52.611	53.625	49.845	0.00	0.00
ATOM	982	CG2	VAL	X	64	53.216	51.555	52.066	0.00	0.00
ATOM	983	HG21	VAL	X	64	53.367	50.570	51.624	0.00	0.00
ATOM	984	HG22	VAL	X	64	54.176	52.008	51.819	0.00	0.00
ATOM	985	HG23	VAL	X	64	52.946	51.480	53.119	0.00	0.00
ATOM	986	C	VAL	X	64	50.894	53.112	53.484	0.00	0.00
ATOM	987	O	VAL	X	64	51.407	53.378	54.574	0.00	0.00
ATOM	988	N	CYX	X	65	49.789	52.310	53.421	0.00	0.00
ATOM	989	H	CYX	X	65	49.563	51.945	52.507	0.00	0.00
ATOM	990	CA	CYX	X	65	49.036	51.795	54.525	0.00	0.00
ATOM	991	HA	CYX	X	65	48.749	52.597	55.204	0.00	0.00
ATOM	992	CB	CYX	X	65	47.751	51.208	53.962	0.00	0.00
ATOM	993	HB2	CYX	X	65	47.908	50.240	53.486	0.00	0.00
ATOM	994	HB3	CYX	X	65	47.141	50.990	54.839	0.00	0.00
ATOM	995	SG	CYX	X	65	46.955	52.231	52.728	0.00	0.00
ATOM	996	C	CYX	X	65	49.876	50.708	55.305	0.00	0.00
ATOM	997	O	CYX	X	65	50.576	49.860	54.725	0.00	0.00
ATOM	998	N	TYR	X	66	49.901	50.798	56.624	0.00	0.00
ATOM	999	H	TYR	X	66	49.443	51.613	57.007	0.00	0.00
ATOM	1000	CA	TYR	X	66	50.428	49.714	57.504	0.00	0.00
ATOM	1001	HA	TYR	X	66	51.512	49.781	57.414	0.00	0.00
ATOM	1002	CB	TYR	X	66	49.978	49.987	58.933	0.00	0.00
ATOM	1003	HB2	TYR	X	66	48.976	50.416	58.931	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.851	49.102	59.555	0.00	0.00
ATOM	1005	CG	TYR	X	66	50.786	51.014	59.715	0.00	0.00
ATOM	1006	CD1	TYR	X	66	50.171	52.184	60.195	0.00	0.00
ATOM	1007	HD1	TYR	X	66	49.106	52.340	60.114	0.00	0.00
ATOM	1008	CE1	TYR	X	66	50.930	53.110	61.025	0.00	0.00
ATOM	1009	HE1	TYR	X	66	50.532	54.037	61.410	0.00	0.00
ATOM	1010	CZ	TYR	X	66	52.351	52.939	61.216	0.00	0.00
ATOM	1011	OH	TYR	X	66	53.071	53.985	61.762	0.00	0.00
ATOM	1012	HH	TYR	X	66	52.480	54.590	62.216	0.00	0.00
ATOM	1013	CE2	TYR	X	66	52.970	51.774	60.679	0.00	0.00
ATOM	1014	HE2	TYR	X	66	54.035	51.674	60.827	0.00	0.00
ATOM	1015	CD2	TYR	X	66	52.185	50.810	60.061	0.00	0.00
ATOM	1016	HD2	TYR	X	66	52.698	49.884	59.845	0.00	0.00
ATOM	1017	C	TYR	X	66	50.011	48.274	57.095	0.00	0.00
ATOM	1018	O	TYR	X	66	48.899	47.973	56.673	0.00	0.00
ATOM	1019	N	GLN	X	67	50.914	47.352	57.320	0.00	0.00
ATOM	1020	H	GLN	X	67	51.843	47.614	57.617	0.00	0.00
ATOM	1021	CA	GLN	X	67	50.866	45.973	56.857	0.00	0.00

ATOM	1022	HA	GLN	X	67	49.937	45.530	57.215	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.779	46.052	55.325	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.769	45.000	55.042	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.872	46.530	54.954	0.00	0.00
ATOM	1026	CG	GLN	X	67	51.976	46.759	54.701	0.00	0.00
ATOM	1027	HG2	GLN	X	67	52.112	47.748	55.140	0.00	0.00
ATOM	1028	HG3	GLN	X	67	52.893	46.257	55.009	0.00	0.00
ATOM	1029	CD	GLN	X	67	51.755	46.777	53.218	0.00	0.00
ATOM	1030	OE1	GLN	X	67	52.396	45.995	52.550	0.00	0.00
ATOM	1031	NE2	GLN	X	67	50.957	47.620	52.672	0.00	0.00
ATOM	1032	HE21	GLN	X	67	50.728	47.665	51.689	0.00	0.00
ATOM	1033	HE22	GLN	X	67	50.611	48.323	53.309	0.00	0.00
ATOM	1034	C	GLN	X	67	52.063	45.224	57.421	0.00	0.00
ATOM	1035	O	GLN	X	67	53.120	45.743	57.801	0.00	0.00
ATOM	1036	N	TYR	X	68	51.827	43.893	57.372	0.00	0.00
ATOM	1037	H	TYR	X	68	50.879	43.563	57.264	0.00	0.00
ATOM	1038	CA	TYR	X	68	52.890	42.971	57.672	0.00	0.00
ATOM	1039	HA	TYR	X	68	53.256	43.050	58.696	0.00	0.00
ATOM	1040	CB	TYR	X	68	52.360	41.518	57.610	0.00	0.00
ATOM	1041	HB2	TYR	X	68	51.555	41.579	58.342	0.00	0.00
ATOM	1042	HB3	TYR	X	68	51.920	41.399	56.620	0.00	0.00
ATOM	1043	CG	TYR	X	68	53.444	40.426	57.877	0.00	0.00
ATOM	1044	CD1	TYR	X	68	53.873	40.094	59.199	0.00	0.00
ATOM	1045	HD1	TYR	X	68	53.390	40.608	60.017	0.00	0.00
ATOM	1046	CE1	TYR	X	68	54.786	39.139	59.458	0.00	0.00
ATOM	1047	HE1	TYR	X	68	54.933	38.909	60.503	0.00	0.00
ATOM	1048	CZ	TYR	X	68	55.255	38.362	58.325	0.00	0.00
ATOM	1049	OH	TYR	X	68	56.024	37.287	58.529	0.00	0.00
ATOM	1050	HH	TYR	X	68	56.016	37.111	59.472	0.00	0.00
ATOM	1051	CE2	TYR	X	68	54.976	38.780	57.002	0.00	0.00
ATOM	1052	HE2	TYR	X	68	55.413	38.295	56.142	0.00	0.00
ATOM	1053	CD2	TYR	X	68	54.017	39.784	56.787	0.00	0.00
ATOM	1054	HD2	TYR	X	68	53.824	40.136	55.784	0.00	0.00
ATOM	1055	C	TYR	X	68	54.106	42.996	56.651	0.00	0.00
ATOM	1056	O	TYR	X	68	53.893	43.101	55.409	0.00	0.00
ATOM	1057	N	VAL	X	69	55.355	42.983	57.137	0.00	0.00
ATOM	1058	H	VAL	X	69	55.450	42.879	58.137	0.00	0.00
ATOM	1059	CA	VAL	X	69	56.636	43.024	56.329	0.00	0.00
ATOM	1060	HA	VAL	X	69	56.441	43.467	55.352	0.00	0.00
ATOM	1061	CB	VAL	X	69	57.746	43.985	56.915	0.00	0.00
ATOM	1062	HB	VAL	X	69	58.538	44.113	56.177	0.00	0.00
ATOM	1063	CG1	VAL	X	69	57.126	45.387	57.104	0.00	0.00
ATOM	1064	HG11	VAL	X	69	57.796	46.154	57.493	0.00	0.00
ATOM	1065	HG12	VAL	X	69	56.580	45.811	56.262	0.00	0.00
ATOM	1066	HG13	VAL	X	69	56.330	45.298	57.843	0.00	0.00
ATOM	1067	CG2	VAL	X	69	58.369	43.453	58.259	0.00	0.00
ATOM	1068	HG21	VAL	X	69	57.627	43.202	59.017	0.00	0.00
ATOM	1069	HG22	VAL	X	69	58.932	42.522	58.192	0.00	0.00
ATOM	1070	HG23	VAL	X	69	59.073	44.138	58.731	0.00	0.00
ATOM	1071	C	VAL	X	69	57.210	41.630	56.259	0.00	0.00
ATOM	1072	O	VAL	X	69	57.339	40.952	57.286	0.00	0.00
ATOM	1073	N	ASP	X	70	57.658	41.256	55.072	0.00	0.00
ATOM	1074	H	ASP	X	70	57.450	41.818	54.259	0.00	0.00
ATOM	1075	CA	ASP	X	70	58.505	40.079	54.883	0.00	0.00
ATOM	1076	HA	ASP	X	70	58.042	39.165	55.254	0.00	0.00
ATOM	1077	CB	ASP	X	70	58.890	39.902	53.449	0.00	0.00
ATOM	1078	HB2	ASP	X	70	58.032	39.589	52.855	0.00	0.00
ATOM	1079	HB3	ASP	X	70	59.241	40.858	53.059	0.00	0.00
ATOM	1080	CG	ASP	X	70	59.941	38.897	53.230	0.00	0.00
ATOM	1081	OD1	ASP	X	70	61.070	39.355	53.035	0.00	0.00
ATOM	1082	OD2	ASP	X	70	59.708	37.649	53.392	0.00	0.00
ATOM	1083	C	ASP	X	70	59.802	40.181	55.806	0.00	0.00
ATOM	1084	O	ASP	X	70	60.520	41.177	55.782	0.00	0.00
ATOM	1085	N	THR	X	71	60.082	39.092	56.484	0.00	0.00
ATOM	1086	H	THR	X	71	59.352	38.397	56.416	0.00	0.00
ATOM	1087	CA	THR	X	71	61.333	38.704	57.204	0.00	0.00
ATOM	1088	HA	THR	X	71	61.981	39.577	57.294	0.00	0.00
ATOM	1089	CB	THR	X	71	60.926	38.261	58.647	0.00	0.00
ATOM	1090	HB	THR	X	71	61.790	37.889	59.197	0.00	0.00
ATOM	1091	CG2	THR	X	71	60.392	39.481	59.358	0.00	0.00

ATOM	1092	HG21	THR	X	71	60.325	39.335	60.436	0.00	0.00
ATOM	1093	HG22	THR	X	71	61.069	40.317	59.182	0.00	0.00
ATOM	1094	HG23	THR	X	71	59.429	39.882	59.041	0.00	0.00
ATOM	1095	OG1	THR	X	71	59.955	37.225	58.668	0.00	0.00
ATOM	1096	HG1	THR	X	71	59.778	37.150	59.609	0.00	0.00
ATOM	1097	C	THR	X	71	62.061	37.488	56.535	0.00	0.00
ATOM	1098	O	THR	X	71	63.255	37.250	56.735	0.00	0.00
ATOM	1099	N	LEU	X	72	61.475	36.726	55.625	0.00	0.00
ATOM	1100	H	LEU	X	72	60.585	37.054	55.278	0.00	0.00
ATOM	1101	CA	LEU	X	72	62.085	35.547	55.026	0.00	0.00
ATOM	1102	HA	LEU	X	72	62.502	34.885	55.785	0.00	0.00
ATOM	1103	CB	LEU	X	72	60.873	34.716	54.452	0.00	0.00
ATOM	1104	HB2	LEU	X	72	59.992	34.793	55.089	0.00	0.00
ATOM	1105	HB3	LEU	X	72	60.617	35.083	53.458	0.00	0.00
ATOM	1106	CG	LEU	X	72	61.182	33.168	54.486	0.00	0.00
ATOM	1107	HG	LEU	X	72	62.149	33.050	53.996	0.00	0.00
ATOM	1108	CD1	LEU	X	72	61.405	32.662	55.985	0.00	0.00
ATOM	1109	HD11	LEU	X	72	61.637	31.598	55.938	0.00	0.00
ATOM	1110	HD12	LEU	X	72	62.404	32.943	56.319	0.00	0.00
ATOM	1111	HD13	LEU	X	72	60.563	32.897	56.637	0.00	0.00
ATOM	1112	CD2	LEU	X	72	60.150	32.357	53.687	0.00	0.00
ATOM	1113	HD21	LEU	X	72	59.702	32.905	52.857	0.00	0.00
ATOM	1114	HD22	LEU	X	72	60.572	31.407	53.359	0.00	0.00
ATOM	1115	HD23	LEU	X	72	59.222	32.248	54.248	0.00	0.00
ATOM	1116	C	LEU	X	72	63.019	35.773	53.882	0.00	0.00
ATOM	1117	O	LEU	X	72	64.022	35.044	53.815	0.00	0.00
ATOM	1118	N	TYR	X	73	62.745	36.730	53.020	0.00	0.00
ATOM	1119	H	TYR	X	73	61.818	37.117	53.118	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.650	37.055	51.915	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.584	36.536	52.132	0.00	0.00
ATOM	1122	CB	TYR	X	73	63.085	36.555	50.596	0.00	0.00
ATOM	1123	HB2	TYR	X	73	62.077	36.968	50.560	0.00	0.00
ATOM	1124	HB3	TYR	X	73	63.816	36.730	49.806	0.00	0.00
ATOM	1125	CG	TYR	X	73	62.923	35.043	50.591	0.00	0.00
ATOM	1126	CD1	TYR	X	73	64.090	34.206	50.361	0.00	0.00
ATOM	1127	HD1	TYR	X	73	65.083	34.606	50.217	0.00	0.00
ATOM	1128	CE1	TYR	X	73	63.870	32.837	50.233	0.00	0.00
ATOM	1129	HE1	TYR	X	73	64.698	32.164	50.070	0.00	0.00
ATOM	1130	CZ	TYR	X	73	62.608	32.325	50.099	0.00	0.00
ATOM	1131	OH	TYR	X	73	62.469	31.037	49.670	0.00	0.00
ATOM	1132	HH	TYR	X	73	61.549	30.768	49.720	0.00	0.00
ATOM	1133	CE2	TYR	X	73	61.490	33.128	50.377	0.00	0.00
ATOM	1134	HE2	TYR	X	73	60.492	32.787	50.145	0.00	0.00
ATOM	1135	CD2	TYR	X	73	61.633	34.517	50.612	0.00	0.00
ATOM	1136	HD2	TYR	X	73	60.738	35.122	50.616	0.00	0.00
ATOM	1137	C	TYR	X	73	64.037	38.553	51.807	0.00	0.00
ATOM	1138	O	TYR	X	73	63.626	39.207	50.852	0.00	0.00
ATOM	1139	N	PRO	X	74	64.807	39.019	52.808	0.00	0.00
ATOM	1140	CD	PRO	X	74	65.072	38.419	54.081	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.478	37.408	54.067	0.00	0.00
ATOM	1142	HD3	PRO	X	74	64.160	38.319	54.669	0.00	0.00
ATOM	1143	CG	PRO	X	74	66.052	39.371	54.783	0.00	0.00
ATOM	1144	HG2	PRO	X	74	67.096	39.133	54.577	0.00	0.00
ATOM	1145	HG3	PRO	X	74	65.836	39.506	55.843	0.00	0.00
ATOM	1146	CB	PRO	X	74	65.818	40.726	54.085	0.00	0.00
ATOM	1147	HB2	PRO	X	74	66.750	41.284	53.999	0.00	0.00
ATOM	1148	HB3	PRO	X	74	65.076	41.333	54.604	0.00	0.00
ATOM	1149	CA	PRO	X	74	65.392	40.277	52.628	0.00	0.00
ATOM	1150	HA	PRO	X	74	64.587	40.965	52.370	0.00	0.00
ATOM	1151	C	PRO	X	74	66.644	40.238	51.708	0.00	0.00
ATOM	1152	O	PRO	X	74	67.428	39.286	51.902	0.00	0.00
ATOM	1153	N	GLY	X	75	66.849	41.279	50.935	0.00	0.00
ATOM	1154	H	GLY	X	75	66.294	42.106	51.098	0.00	0.00
ATOM	1155	CA	GLY	X	75	67.888	41.581	50.023	0.00	0.00
ATOM	1156	HA2	GLY	X	75	68.042	42.669	49.881	0.00	0.00
ATOM	1157	HA3	GLY	X	75	68.779	41.258	50.501	0.00	0.00
ATOM	1158	C	GLY	X	75	67.893	40.766	48.766	0.00	0.00
ATOM	1159	O	GLY	X	75	68.613	41.035	47.845	0.00	0.00
ATOM	1160	N	PHE	X	76	67.009	39.813	48.570	0.00	0.00
ATOM	1161	H	PHE	X	76	66.375	39.537	49.306	0.00	0.00

ATOM	1162	CA	PHE	X	76	66.844	39.052	47.367	0.00	0.00
ATOM	1163	HA	PHE	X	76	67.815	38.888	46.898	0.00	0.00
ATOM	1164	CB	PHE	X	76	66.293	37.628	47.815	0.00	0.00
ATOM	1165	HB2	PHE	X	76	66.968	37.070	48.463	0.00	0.00
ATOM	1166	HB3	PHE	X	76	65.444	37.890	48.447	0.00	0.00
ATOM	1167	CG	PHE	X	76	65.826	36.736	46.717	0.00	0.00
ATOM	1168	CD1	PHE	X	76	66.698	36.330	45.756	0.00	0.00
ATOM	1169	HD1	PHE	X	76	67.758	36.520	45.840	0.00	0.00
ATOM	1170	CE1	PHE	X	76	66.231	35.646	44.646	0.00	0.00
ATOM	1171	HE1	PHE	X	76	66.821	35.370	43.784	0.00	0.00
ATOM	1172	CZ	PHE	X	76	64.886	35.204	44.606	0.00	0.00
ATOM	1173	HZ	PHE	X	76	64.479	34.726	43.727	0.00	0.00
ATOM	1174	CE2	PHE	X	76	64.028	35.530	45.684	0.00	0.00
ATOM	1175	HE2	PHE	X	76	63.018	35.158	45.771	0.00	0.00
ATOM	1176	CD2	PHE	X	76	64.509	36.355	46.723	0.00	0.00
ATOM	1177	HD2	PHE	X	76	63.768	36.522	47.491	0.00	0.00
ATOM	1178	C	PHE	X	76	65.814	39.748	46.422	0.00	0.00
ATOM	1179	O	PHE	X	76	64.681	40.038	46.774	0.00	0.00
ATOM	1180	N	GLU	X	77	66.189	40.002	45.126	0.00	0.00
ATOM	1181	H	GLU	X	77	67.160	39.836	44.905	0.00	0.00
ATOM	1182	CA	GLU	X	77	65.392	40.723	44.096	0.00	0.00
ATOM	1183	HA	GLU	X	77	65.336	41.703	44.570	0.00	0.00
ATOM	1184	CB	GLU	X	77	66.217	40.855	42.815	0.00	0.00
ATOM	1185	HB2	GLU	X	77	67.250	41.149	43.001	0.00	0.00
ATOM	1186	HB3	GLU	X	77	66.338	39.881	42.342	0.00	0.00
ATOM	1187	CG	GLU	X	77	65.655	41.868	41.746	0.00	0.00
ATOM	1188	HG2	GLU	X	77	65.896	41.497	40.750	0.00	0.00
ATOM	1189	HG3	GLU	X	77	64.584	42.074	41.748	0.00	0.00
ATOM	1190	CD	GLU	X	77	66.220	43.285	41.932	0.00	0.00
ATOM	1191	OE1	GLU	X	77	66.311	44.095	40.990	0.00	0.00
ATOM	1192	OE2	GLU	X	77	66.463	43.675	43.093	0.00	0.00
ATOM	1193	C	GLU	X	77	63.975	40.182	43.872	0.00	0.00
ATOM	1194	O	GLU	X	77	63.010	40.913	43.602	0.00	0.00
ATOM	1195	N	GLY	X	78	63.826	38.854	44.115	0.00	0.00
ATOM	1196	H	GLY	X	78	64.615	38.442	44.592	0.00	0.00
ATOM	1197	CA	GLY	X	78	62.563	38.129	44.111	0.00	0.00
ATOM	1198	HA2	GLY	X	78	61.953	38.382	43.163	0.00	0.00
ATOM	1199	HA3	GLY	X	78	62.796	37.099	44.098	0.00	0.00
ATOM	1200	C	GLY	X	78	61.559	38.443	45.191	0.00	0.00
ATOM	1201	O	GLY	X	78	60.434	37.979	45.039	0.00	0.00
ATOM	1202	N	THR	X	79	61.919	39.153	46.245	0.00	0.00
ATOM	1203	H	THR	X	79	62.911	39.339	46.257	0.00	0.00
ATOM	1204	CA	THR	X	79	61.058	39.721	47.320	0.00	0.00
ATOM	1205	HA	THR	X	79	60.048	39.552	46.948	0.00	0.00
ATOM	1206	CB	THR	X	79	61.207	38.872	48.594	0.00	0.00
ATOM	1207	HB	THR	X	79	62.267	38.707	48.789	0.00	0.00
ATOM	1208	CG2	THR	X	79	60.564	39.522	49.798	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.957	40.499	50.075	0.00	0.00
ATOM	1210	HG22	THR	X	79	59.487	39.645	49.678	0.00	0.00
ATOM	1211	HG23	THR	X	79	60.738	38.811	50.606	0.00	0.00
ATOM	1212	OG1	THR	X	79	60.623	37.636	48.332	0.00	0.00
ATOM	1213	HG1	THR	X	79	60.285	37.289	49.161	0.00	0.00
ATOM	1214	C	THR	X	79	61.244	41.194	47.480	0.00	0.00
ATOM	1215	O	THR	X	79	60.281	41.962	47.523	0.00	0.00
ATOM	1216	N	GLU	X	80	62.489	41.654	47.437	0.00	0.00
ATOM	1217	H	GLU	X	80	63.270	41.014	47.449	0.00	0.00
ATOM	1218	CA	GLU	X	80	62.773	43.065	47.527	0.00	0.00
ATOM	1219	HA	GLU	X	80	62.163	43.375	48.375	0.00	0.00
ATOM	1220	CB	GLU	X	80	64.276	43.199	47.811	0.00	0.00
ATOM	1221	HB2	GLU	X	80	64.525	42.436	48.548	0.00	0.00
ATOM	1222	HB3	GLU	X	80	64.815	42.915	46.907	0.00	0.00
ATOM	1223	CG	GLU	X	80	64.784	44.607	48.381	0.00	0.00
ATOM	1224	HG2	GLU	X	80	64.308	45.428	47.846	0.00	0.00
ATOM	1225	HG3	GLU	X	80	64.527	44.742	49.432	0.00	0.00
ATOM	1226	CD	GLU	X	80	66.280	44.824	48.254	0.00	0.00
ATOM	1227	OE1	GLU	X	80	66.936	45.010	49.250	0.00	0.00
ATOM	1228	OE2	GLU	X	80	66.815	44.797	47.091	0.00	0.00
ATOM	1229	C	GLU	X	80	62.231	44.029	46.424	0.00	0.00
ATOM	1230	O	GLU	X	80	62.128	45.199	46.699	0.00	0.00
ATOM	1231	N	MET	X	81	61.726	43.523	45.322	0.00	0.00

ATOM	1232	H	MET	X	81	61.910	42.545	45.145	0.00	0.00
ATOM	1233	CA	MET	X	81	60.961	44.282	44.275	0.00	0.00
ATOM	1234	HA	MET	X	81	61.140	45.357	44.258	0.00	0.00
ATOM	1235	CB	MET	X	81	61.158	43.745	42.849	0.00	0.00
ATOM	1236	HB2	MET	X	81	61.091	42.663	42.962	0.00	0.00
ATOM	1237	HB3	MET	X	81	60.327	44.040	42.208	0.00	0.00
ATOM	1238	CG	MET	X	81	62.488	44.232	42.238	0.00	0.00
ATOM	1239	HG2	MET	X	81	63.231	44.373	43.023	0.00	0.00
ATOM	1240	HG3	MET	X	81	62.813	43.499	41.499	0.00	0.00
ATOM	1241	SD	MET	X	81	62.447	45.803	41.306	0.00	0.00
ATOM	1242	CE	MET	X	81	61.241	45.478	40.078	0.00	0.00
ATOM	1243	HE1	MET	X	81	61.463	44.603	39.467	0.00	0.00
ATOM	1244	HE2	MET	X	81	60.246	45.291	40.481	0.00	0.00
ATOM	1245	HE3	MET	X	81	61.196	46.379	39.467	0.00	0.00
ATOM	1246	C	MET	X	81	59.443	44.322	44.623	0.00	0.00
ATOM	1247	O	MET	X	81	58.625	44.915	43.904	0.00	0.00
ATOM	1248	N	TRP	X	82	58.925	43.635	45.708	0.00	0.00
ATOM	1249	H	TRP	X	82	59.600	43.088	46.222	0.00	0.00
ATOM	1250	CA	TRP	X	82	57.507	43.455	46.049	0.00	0.00
ATOM	1251	HA	TRP	X	82	56.832	44.081	45.465	0.00	0.00
ATOM	1252	CB	TRP	X	82	57.215	41.898	45.740	0.00	0.00
ATOM	1253	HB2	TRP	X	82	57.729	41.273	46.470	0.00	0.00
ATOM	1254	HB3	TRP	X	82	56.133	41.784	45.791	0.00	0.00
ATOM	1255	CG	TRP	X	82	57.549	41.481	44.327	0.00	0.00
ATOM	1256	CD1	TRP	X	82	58.587	40.839	43.862	0.00	0.00
ATOM	1257	HD1	TRP	X	82	59.460	40.555	44.430	0.00	0.00
ATOM	1258	NE1	TRP	X	82	58.523	40.637	42.479	0.00	0.00
ATOM	1259	HE1	TRP	X	82	59.181	40.254	41.815	0.00	0.00
ATOM	1260	CE2	TRP	X	82	57.398	41.265	41.980	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	56.928	41.362	40.659	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	57.397	40.788	39.873	0.00	0.00
ATOM	1263	CH2	TRP	X	82	55.693	41.955	40.485	0.00	0.00
ATOM	1264	HH2	TRP	X	82	55.214	41.977	39.517	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	55.045	42.445	41.622	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	54.103	42.940	41.440	0.00	0.00
ATOM	1267	CE3	TRP	X	82	55.608	42.567	42.872	0.00	0.00
ATOM	1268	HE3	TRP	X	82	55.087	43.088	43.662	0.00	0.00
ATOM	1269	CD2	TRP	X	82	56.728	41.761	43.118	0.00	0.00
ATOM	1270	C	TRP	X	82	57.258	43.849	47.468	0.00	0.00
ATOM	1271	O	TRP	X	82	56.098	44.191	47.766	0.00	0.00
ATOM	1272	N	ASN	X	83	58.216	43.738	48.433	0.00	0.00
ATOM	1273	H	ASN	X	83	59.150	43.428	48.210	0.00	0.00
ATOM	1274	CA	ASN	X	83	58.065	44.433	49.735	0.00	0.00
ATOM	1275	HA	ASN	X	83	57.093	44.209	50.175	0.00	0.00
ATOM	1276	CB	ASN	X	83	59.201	43.987	50.688	0.00	0.00
ATOM	1277	HB2	ASN	X	83	59.114	42.918	50.882	0.00	0.00
ATOM	1278	HB3	ASN	X	83	60.200	44.276	50.363	0.00	0.00
ATOM	1279	CG	ASN	X	83	59.060	44.623	52.038	0.00	0.00
ATOM	1280	OD1	ASN	X	83	59.885	45.479	52.432	0.00	0.00
ATOM	1281	ND2	ASN	X	83	58.098	44.234	52.792	0.00	0.00
ATOM	1282	HD21	ASN	X	83	57.940	44.792	53.619	0.00	0.00
ATOM	1283	HD22	ASN	X	83	57.631	43.356	52.613	0.00	0.00
ATOM	1284	C	ASN	X	83	58.119	45.946	49.511	0.00	0.00
ATOM	1285	O	ASN	X	83	59.124	46.313	48.948	0.00	0.00
ATOM	1286	N	PRO	X	84	57.049	46.674	49.852	0.00	0.00
ATOM	1287	CD	PRO	X	84	55.978	46.343	50.813	0.00	0.00
ATOM	1288	HD2	PRO	X	84	56.329	45.901	51.746	0.00	0.00
ATOM	1289	HD3	PRO	X	84	55.156	45.827	50.318	0.00	0.00
ATOM	1290	CG	PRO	X	84	55.280	47.632	51.224	0.00	0.00
ATOM	1291	HG2	PRO	X	84	55.934	48.110	51.954	0.00	0.00
ATOM	1292	HG3	PRO	X	84	54.267	47.445	51.580	0.00	0.00
ATOM	1293	CB	PRO	X	84	55.353	48.443	49.922	0.00	0.00
ATOM	1294	HB2	PRO	X	84	55.373	49.464	50.303	0.00	0.00
ATOM	1295	HB3	PRO	X	84	54.517	48.166	49.280	0.00	0.00
ATOM	1296	CA	PRO	X	84	56.734	47.975	49.223	0.00	0.00
ATOM	1297	HA	PRO	X	84	56.556	47.871	48.153	0.00	0.00
ATOM	1298	C	PRO	X	84	57.811	48.989	49.520	0.00	0.00
ATOM	1299	O	PRO	X	84	58.409	48.926	50.650	0.00	0.00
ATOM	1300	N	ASN	X	85	58.112	49.914	48.603	0.00	0.00
ATOM	1301	H	ASN	X	85	57.518	49.994	47.790	0.00	0.00

ATOM	1302	CA	ASN	X	85	59.285	50.764	48.588	0.00	0.00
ATOM	1303	HA	ASN	X	85	60.119	50.322	49.134	0.00	0.00
ATOM	1304	CB	ASN	X	85	59.775	50.964	47.163	0.00	0.00
ATOM	1305	HB2	ASN	X	85	60.579	51.688	47.294	0.00	0.00
ATOM	1306	HB3	ASN	X	85	60.130	50.042	46.703	0.00	0.00
ATOM	1307	CG	ASN	X	85	58.674	51.532	46.256	0.00	0.00
ATOM	1308	OD1	ASN	X	85	57.652	52.133	46.668	0.00	0.00
ATOM	1309	ND2	ASN	X	85	58.849	51.432	44.977	0.00	0.00
ATOM	1310	HD21	ASN	X	85	58.135	51.833	44.385	0.00	0.00
ATOM	1311	HD22	ASN	X	85	59.516	50.767	44.613	0.00	0.00
ATOM	1312	C	ASN	X	85	59.022	52.095	49.307	0.00	0.00
ATOM	1313	O	ASN	X	85	60.008	52.794	49.481	0.00	0.00
ATOM	1314	N	ARG	X	86	57.818	52.274	49.867	0.00	0.00
ATOM	1315	H	ARG	X	86	57.148	51.525	49.762	0.00	0.00
ATOM	1316	CA	ARG	X	86	57.571	53.417	50.722	0.00	0.00
ATOM	1317	HA	ARG	X	86	58.364	54.165	50.740	0.00	0.00
ATOM	1318	CB	ARG	X	86	56.361	54.109	50.240	0.00	0.00
ATOM	1319	HB2	ARG	X	86	55.565	53.374	50.362	0.00	0.00
ATOM	1320	HB3	ARG	X	86	56.095	55.002	50.805	0.00	0.00
ATOM	1321	CG	ARG	X	86	56.354	54.488	48.726	0.00	0.00
ATOM	1322	HG2	ARG	X	86	56.434	53.510	48.251	0.00	0.00
ATOM	1323	HG3	ARG	X	86	55.454	55.077	48.548	0.00	0.00
ATOM	1324	CD	ARG	X	86	57.406	55.313	48.053	0.00	0.00
ATOM	1325	HD2	ARG	X	86	58.367	54.891	48.349	0.00	0.00
ATOM	1326	HD3	ARG	X	86	57.200	55.339	46.983	0.00	0.00
ATOM	1327	NE	ARG	X	86	57.497	56.633	48.693	0.00	0.00
ATOM	1328	HE	ARG	X	86	56.919	56.697	49.519	0.00	0.00
ATOM	1329	CZ	ARG	X	86	57.928	57.733	48.212	0.00	0.00
ATOM	1330	NH1	ARG	X	86	58.478	57.813	47.022	0.00	0.00
ATOM	1331	HH11	ARG	X	86	58.602	56.923	46.561	0.00	0.00
ATOM	1332	HH12	ARG	X	86	58.815	58.643	46.556	0.00	0.00
ATOM	1333	NH2	ARG	X	86	57.854	58.811	48.971	0.00	0.00
ATOM	1334	HH21	ARG	X	86	57.443	58.729	49.890	0.00	0.00
ATOM	1335	HH22	ARG	X	86	58.193	59.707	48.651	0.00	0.00
ATOM	1336	C	ARG	X	86	57.367	53.010	52.256	0.00	0.00
ATOM	1337	O	ARG	X	86	57.256	51.817	52.552	0.00	0.00
ATOM	1338	N	GLU	X	87	57.452	54.025	53.131	0.00	0.00
ATOM	1339	H	GLU	X	87	57.490	54.942	52.710	0.00	0.00
ATOM	1340	CA	GLU	X	87	57.252	53.971	54.552	0.00	0.00
ATOM	1341	HA	GLU	X	87	57.866	53.210	55.033	0.00	0.00
ATOM	1342	CB	GLU	X	87	57.644	55.339	55.263	0.00	0.00
ATOM	1343	HB2	GLU	X	87	57.030	56.160	54.893	0.00	0.00
ATOM	1344	HB3	GLU	X	87	57.335	55.102	56.281	0.00	0.00
ATOM	1345	CG	GLU	X	87	59.077	55.819	55.068	0.00	0.00
ATOM	1346	HG2	GLU	X	87	59.821	55.022	55.092	0.00	0.00
ATOM	1347	HG3	GLU	X	87	59.207	56.277	54.087	0.00	0.00
ATOM	1348	CD	GLU	X	87	59.450	56.837	56.113	0.00	0.00
ATOM	1349	OE1	GLU	X	87	59.646	56.554	57.293	0.00	0.00
ATOM	1350	OE2	GLU	X	87	59.328	58.087	55.807	0.00	0.00
ATOM	1351	C	GLU	X	87	55.772	53.601	54.884	0.00	0.00
ATOM	1352	O	GLU	X	87	54.834	53.750	54.046	0.00	0.00
ATOM	1353	N	LEU	X	88	55.518	53.075	56.079	0.00	0.00
ATOM	1354	H	LEU	X	88	56.219	53.115	56.805	0.00	0.00
ATOM	1355	CA	LEU	X	88	54.205	52.717	56.579	0.00	0.00
ATOM	1356	HA	LEU	X	88	53.580	52.508	55.710	0.00	0.00
ATOM	1357	CB	LEU	X	88	54.347	51.395	57.379	0.00	0.00
ATOM	1358	HB2	LEU	X	88	54.933	51.590	58.278	0.00	0.00
ATOM	1359	HB3	LEU	X	88	53.359	51.067	57.702	0.00	0.00
ATOM	1360	CG	LEU	X	88	55.119	50.201	56.753	0.00	0.00
ATOM	1361	HG	LEU	X	88	56.157	50.478	56.568	0.00	0.00
ATOM	1362	CD1	LEU	X	88	55.015	48.940	57.713	0.00	0.00
ATOM	1363	HD11	LEU	X	88	54.017	48.528	57.562	0.00	0.00
ATOM	1364	HD12	LEU	X	88	55.708	48.168	57.380	0.00	0.00
ATOM	1365	HD13	LEU	X	88	55.247	49.221	58.740	0.00	0.00
ATOM	1366	CD2	LEU	X	88	54.608	49.663	55.441	0.00	0.00
ATOM	1367	HD21	LEU	X	88	54.577	50.402	54.640	0.00	0.00
ATOM	1368	HD22	LEU	X	88	55.246	48.838	55.124	0.00	0.00
ATOM	1369	HD23	LEU	X	88	53.613	49.304	55.704	0.00	0.00
ATOM	1370	C	LEU	X	88	53.569	53.686	57.500	0.00	0.00
ATOM	1371	O	LEU	X	88	54.209	54.320	58.296	0.00	0.00

ATOM	1372	N	SER	X	89	52.271	53.892	57.235	0.00	0.00
ATOM	1373	H	SER	X	89	51.820	53.503	56.419	0.00	0.00
ATOM	1374	CA	SER	X	89	51.429	54.863	57.981	0.00	0.00
ATOM	1375	HA	SER	X	89	51.756	54.608	58.989	0.00	0.00
ATOM	1376	CB	SER	X	89	51.808	56.210	57.316	0.00	0.00
ATOM	1377	HB2	SER	X	89	52.890	56.331	57.259	0.00	0.00
ATOM	1378	HB3	SER	X	89	51.399	56.285	56.308	0.00	0.00
ATOM	1379	OG	SER	X	89	51.419	57.232	58.189	0.00	0.00
ATOM	1380	HG	SER	X	89	51.594	58.076	57.766	0.00	0.00
ATOM	1381	C	SER	X	89	49.964	54.609	57.908	0.00	0.00
ATOM	1382	O	SER	X	89	49.456	53.773	57.194	0.00	0.00
ATOM	1383	N	GLU	X	90	49.107	55.373	58.581	0.00	0.00
ATOM	1384	H	GLU	X	90	49.465	55.991	59.295	0.00	0.00
ATOM	1385	CA	GLU	X	90	47.613	55.420	58.388	0.00	0.00
ATOM	1386	HA	GLU	X	90	47.285	54.438	58.048	0.00	0.00
ATOM	1387	CB	GLU	X	90	46.891	55.776	59.722	0.00	0.00
ATOM	1388	HB2	GLU	X	90	47.275	56.715	60.121	0.00	0.00
ATOM	1389	HB3	GLU	X	90	45.830	55.848	59.486	0.00	0.00
ATOM	1390	CG	GLU	X	90	46.999	54.751	60.842	0.00	0.00
ATOM	1391	HG2	GLU	X	90	46.579	53.864	60.367	0.00	0.00
ATOM	1392	HG3	GLU	X	90	48.041	54.581	61.112	0.00	0.00
ATOM	1393	CD	GLU	X	90	46.206	55.137	62.037	0.00	0.00
ATOM	1394	OE1	GLU	X	90	44.969	54.898	62.034	0.00	0.00
ATOM	1395	OE2	GLU	X	90	46.835	55.629	63.037	0.00	0.00
ATOM	1396	C	GLU	X	90	47.257	56.368	57.221	0.00	0.00
ATOM	1397	O	GLU	X	90	46.164	56.207	56.742	0.00	0.00
ATOM	1398	N	ASP	X	91	48.169	57.313	56.791	0.00	0.00
ATOM	1399	H	ASP	X	91	48.985	57.426	57.375	0.00	0.00
ATOM	1400	CA	ASP	X	91	47.978	58.155	55.590	0.00	0.00
ATOM	1401	HA	ASP	X	91	46.904	58.334	55.542	0.00	0.00
ATOM	1402	CB	ASP	X	91	48.579	59.519	55.871	0.00	0.00
ATOM	1403	HB2	ASP	X	91	48.077	60.086	56.655	0.00	0.00
ATOM	1404	HB3	ASP	X	91	49.598	59.429	56.248	0.00	0.00
ATOM	1405	CG	ASP	X	91	48.471	60.466	54.712	0.00	0.00
ATOM	1406	OD1	ASP	X	91	47.307	60.708	54.367	0.00	0.00
ATOM	1407	OD2	ASP	X	91	49.455	60.963	54.165	0.00	0.00
ATOM	1408	C	ASP	X	91	48.541	57.473	54.303	0.00	0.00
ATOM	1409	O	ASP	X	91	49.771	57.331	54.201	0.00	0.00
ATOM	1410	N	CYX	X	92	47.625	57.155	53.370	0.00	0.00
ATOM	1411	H	CYX	X	92	46.643	57.205	53.598	0.00	0.00
ATOM	1412	CA	CYX	X	92	47.973	56.330	52.274	0.00	0.00
ATOM	1413	HA	CYX	X	92	48.947	56.678	51.930	0.00	0.00
ATOM	1414	CB	CYX	X	92	48.165	54.914	52.700	0.00	0.00
ATOM	1415	HB2	CYX	X	92	48.574	54.311	51.890	0.00	0.00
ATOM	1416	HB3	CYX	X	92	48.855	54.936	53.544	0.00	0.00
ATOM	1417	SG	CYX	X	92	46.610	54.178	53.335	0.00	0.00
ATOM	1418	C	CYX	X	92	47.044	56.381	51.057	0.00	0.00
ATOM	1419	O	CYX	X	92	47.136	55.612	50.114	0.00	0.00
ATOM	1420	N	LEU	X	93	45.949	57.156	51.113	0.00	0.00
ATOM	1421	H	LEU	X	93	45.902	57.748	51.930	0.00	0.00
ATOM	1422	CA	LEU	X	93	44.841	57.248	50.101	0.00	0.00
ATOM	1423	HA	LEU	X	93	44.761	56.292	49.583	0.00	0.00
ATOM	1424	CB	LEU	X	93	43.466	57.420	50.709	0.00	0.00
ATOM	1425	HB2	LEU	X	93	43.346	58.416	51.135	0.00	0.00
ATOM	1426	HB3	LEU	X	93	42.753	57.177	49.921	0.00	0.00
ATOM	1427	CG	LEU	X	93	43.115	56.382	51.807	0.00	0.00
ATOM	1428	HG	LEU	X	93	43.746	56.625	52.661	0.00	0.00
ATOM	1429	CD1	LEU	X	93	41.711	56.685	52.323	0.00	0.00
ATOM	1430	HD11	LEU	X	93	40.915	56.623	51.581	0.00	0.00
ATOM	1431	HD12	LEU	X	93	41.469	56.044	53.171	0.00	0.00
ATOM	1432	HD13	LEU	X	93	41.701	57.703	52.711	0.00	0.00
ATOM	1433	CD2	LEU	X	93	43.283	54.970	51.318	0.00	0.00
ATOM	1434	HD21	LEU	X	93	42.865	54.234	52.004	0.00	0.00
ATOM	1435	HD22	LEU	X	93	42.788	54.830	50.357	0.00	0.00
ATOM	1436	HD23	LEU	X	93	44.313	54.670	51.123	0.00	0.00
ATOM	1437	C	LEU	X	93	45.179	58.202	48.983	0.00	0.00
ATOM	1438	O	LEU	X	93	44.609	59.289	48.901	0.00	0.00
ATOM	1439	N	TYR	X	94	46.016	57.674	48.106	0.00	0.00
ATOM	1440	H	TYR	X	94	46.279	56.707	48.237	0.00	0.00
ATOM	1441	CA	TYR	X	94	46.615	58.365	46.966	0.00	0.00

ATOM	1442	HA	TYR	X	94	45.973	59.243	46.901	0.00	0.00
ATOM	1443	CB	TYR	X	94	48.005	58.787	47.263	0.00	0.00
ATOM	1444	HB2	TYR	X	94	48.669	57.925	47.311	0.00	0.00
ATOM	1445	HB3	TYR	X	94	48.411	59.355	46.426	0.00	0.00
ATOM	1446	CG	TYR	X	94	48.152	59.619	48.539	0.00	0.00
ATOM	1447	CD1	TYR	X	94	47.751	61.003	48.517	0.00	0.00
ATOM	1448	HD1	TYR	X	94	47.485	61.451	47.571	0.00	0.00
ATOM	1449	CE1	TYR	X	94	47.850	61.833	49.641	0.00	0.00
ATOM	1450	HE1	TYR	X	94	47.527	62.862	49.590	0.00	0.00
ATOM	1451	CZ	TYR	X	94	48.208	61.234	50.883	0.00	0.00
ATOM	1452	OH	TYR	X	94	48.181	61.981	51.948	0.00	0.00
ATOM	1453	HH	TYR	X	94	48.293	61.404	52.707	0.00	0.00
ATOM	1454	CE2	TYR	X	94	48.633	59.863	50.876	0.00	0.00
ATOM	1455	HE2	TYR	X	94	48.994	59.448	51.806	0.00	0.00
ATOM	1456	CD2	TYR	X	94	48.647	59.008	49.744	0.00	0.00
ATOM	1457	HD2	TYR	X	94	48.973	57.981	49.806	0.00	0.00
ATOM	1458	C	TYR	X	94	46.563	57.524	45.609	0.00	0.00
ATOM	1459	O	TYR	X	94	46.342	56.320	45.615	0.00	0.00
ATOM	1460	N	LEU	X	95	46.659	58.224	44.452	0.00	0.00
ATOM	1461	H	LEU	X	95	46.807	59.218	44.556	0.00	0.00
ATOM	1462	CA	LEU	X	95	46.574	57.628	43.103	0.00	0.00
ATOM	1463	HA	LEU	X	95	46.915	56.594	43.159	0.00	0.00
ATOM	1464	CB	LEU	X	95	45.152	57.541	42.606	0.00	0.00
ATOM	1465	HB2	LEU	X	95	45.082	57.077	41.623	0.00	0.00
ATOM	1466	HB3	LEU	X	95	44.672	56.957	43.391	0.00	0.00
ATOM	1467	CG	LEU	X	95	44.257	58.791	42.470	0.00	0.00
ATOM	1468	HG	LEU	X	95	44.481	59.545	43.225	0.00	0.00
ATOM	1469	CD1	LEU	X	95	44.714	59.440	41.150	0.00	0.00
ATOM	1470	HD11	LEU	X	95	45.772	59.705	41.146	0.00	0.00
ATOM	1471	HD12	LEU	X	95	44.493	58.668	40.413	0.00	0.00
ATOM	1472	HD13	LEU	X	95	44.032	60.285	41.060	0.00	0.00
ATOM	1473	CD2	LEU	X	95	42.770	58.428	42.437	0.00	0.00
ATOM	1474	HD21	LEU	X	95	42.491	57.906	43.352	0.00	0.00
ATOM	1475	HD22	LEU	X	95	42.093	59.272	42.303	0.00	0.00
ATOM	1476	HD23	LEU	X	95	42.716	57.791	41.554	0.00	0.00
ATOM	1477	C	LEU	X	95	47.632	58.364	42.168	0.00	0.00
ATOM	1478	O	LEU	X	95	48.273	59.379	42.469	0.00	0.00
ATOM	1479	N	ASN	X	96	47.831	57.607	41.092	0.00	0.00
ATOM	1480	H	ASN	X	96	47.237	56.797	40.991	0.00	0.00
ATOM	1481	CA	ASN	X	96	48.758	57.894	40.020	0.00	0.00
ATOM	1482	HA	ASN	X	96	49.115	58.916	40.145	0.00	0.00
ATOM	1483	CB	ASN	X	96	49.878	56.916	39.947	0.00	0.00
ATOM	1484	HB2	ASN	X	96	49.516	55.933	39.645	0.00	0.00
ATOM	1485	HB3	ASN	X	96	50.494	57.290	39.129	0.00	0.00
ATOM	1486	CG	ASN	X	96	50.712	56.662	41.140	0.00	0.00
ATOM	1487	OD1	ASN	X	96	51.185	57.602	41.790	0.00	0.00
ATOM	1488	ND2	ASN	X	96	50.981	55.409	41.586	0.00	0.00
ATOM	1489	HD21	ASN	X	96	51.519	55.322	42.436	0.00	0.00
ATOM	1490	HD22	ASN	X	96	50.593	54.594	41.133	0.00	0.00
ATOM	1491	C	ASN	X	96	47.944	57.991	38.715	0.00	0.00
ATOM	1492	O	ASN	X	96	46.943	57.336	38.471	0.00	0.00
ATOM	1493	N	VAL	X	97	48.466	58.806	37.788	0.00	0.00
ATOM	1494	H	VAL	X	97	49.308	59.330	37.974	0.00	0.00
ATOM	1495	CA	VAL	X	97	47.971	58.849	36.381	0.00	0.00
ATOM	1496	HA	VAL	X	97	47.487	57.893	36.184	0.00	0.00
ATOM	1497	CB	VAL	X	97	46.895	60.019	36.091	0.00	0.00
ATOM	1498	HB	VAL	X	97	47.413	60.972	36.198	0.00	0.00
ATOM	1499	CG1	VAL	X	97	46.303	59.887	34.648	0.00	0.00
ATOM	1500	HG11	VAL	X	97	45.952	58.878	34.430	0.00	0.00
ATOM	1501	HG12	VAL	X	97	45.494	60.610	34.536	0.00	0.00
ATOM	1502	HG13	VAL	X	97	47.183	60.061	34.029	0.00	0.00
ATOM	1503	CG2	VAL	X	97	45.696	60.228	37.035	0.00	0.00
ATOM	1504	HG21	VAL	X	97	44.987	59.406	36.932	0.00	0.00
ATOM	1505	HG22	VAL	X	97	46.025	60.378	38.063	0.00	0.00
ATOM	1506	HG23	VAL	X	97	45.263	61.190	36.761	0.00	0.00
ATOM	1507	C	VAL	X	97	49.103	58.988	35.443	0.00	0.00
ATOM	1508	O	VAL	X	97	49.990	59.873	35.677	0.00	0.00
ATOM	1509	N	TRP	X	98	49.229	58.199	34.366	0.00	0.00
ATOM	1510	H	TRP	X	98	48.529	57.513	34.126	0.00	0.00
ATOM	1511	CA	TRP	X	98	50.226	58.304	33.303	0.00	0.00

ATOM	1512	HA	TRP	X	98	50.950	59.047	33.638	0.00	0.00
ATOM	1513	CB	TRP	X	98	50.967	56.982	33.038	0.00	0.00
ATOM	1514	HB2	TRP	X	98	50.241	56.172	32.961	0.00	0.00
ATOM	1515	HB3	TRP	X	98	51.438	57.024	32.056	0.00	0.00
ATOM	1516	CG	TRP	X	98	52.028	56.632	33.969	0.00	0.00
ATOM	1517	CD1	TRP	X	98	53.374	56.740	33.676	0.00	0.00
ATOM	1518	HD1	TRP	X	98	53.721	57.117	32.726	0.00	0.00
ATOM	1519	NE1	TRP	X	98	54.078	56.192	34.749	0.00	0.00
ATOM	1520	HE1	TRP	X	98	55.054	55.940	34.694	0.00	0.00
ATOM	1521	CE2	TRP	X	98	53.308	55.868	35.791	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	53.607	55.457	37.043	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	54.599	55.430	37.470	0.00	0.00
ATOM	1524	CH2	TRP	X	98	52.593	54.943	37.863	0.00	0.00
ATOM	1525	HH2	TRP	X	98	52.792	54.482	38.819	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	51.286	55.012	37.438	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	50.460	54.645	38.029	0.00	0.00
ATOM	1528	CE3	TRP	X	98	50.999	55.519	36.158	0.00	0.00
ATOM	1529	HE3	TRP	X	98	50.014	55.606	35.724	0.00	0.00
ATOM	1530	CD2	TRP	X	98	51.995	56.048	35.283	0.00	0.00
ATOM	1531	C	TRP	X	98	49.540	58.789	32.044	0.00	0.00
ATOM	1532	O	TRP	X	98	48.450	58.358	31.774	0.00	0.00
ATOM	1533	N	THR	X	99	50.189	59.676	31.337	0.00	0.00
ATOM	1534	H	THR	X	99	51.091	59.952	31.696	0.00	0.00
ATOM	1535	CA	THR	X	99	49.546	60.306	30.125	0.00	0.00
ATOM	1536	HA	THR	X	99	48.976	59.508	29.649	0.00	0.00
ATOM	1537	CB	THR	X	99	48.426	61.384	30.462	0.00	0.00
ATOM	1538	HB	THR	X	99	47.715	60.969	31.176	0.00	0.00
ATOM	1539	CG2	THR	X	99	49.039	62.609	31.113	0.00	0.00
ATOM	1540	HG21	THR	X	99	49.556	63.199	30.356	0.00	0.00
ATOM	1541	HG22	THR	X	99	48.288	63.224	31.608	0.00	0.00
ATOM	1542	HG23	THR	X	99	49.770	62.214	31.818	0.00	0.00
ATOM	1543	OG1	THR	X	99	47.788	61.742	29.240	0.00	0.00
ATOM	1544	HG1	THR	X	99	47.033	62.268	29.515	0.00	0.00
ATOM	1545	C	THR	X	99	50.588	60.826	29.153	0.00	0.00
ATOM	1546	O	THR	X	99	51.629	61.279	29.616	0.00	0.00
ATOM	1547	N	PRO	X	100	50.343	60.688	27.821	0.00	0.00
ATOM	1548	CD	PRO	X	100	49.245	59.956	27.135	0.00	0.00
ATOM	1549	HD2	PRO	X	100	48.363	60.597	27.147	0.00	0.00
ATOM	1550	HD3	PRO	X	100	48.950	59.081	27.714	0.00	0.00
ATOM	1551	CG	PRO	X	100	49.673	59.652	25.683	0.00	0.00
ATOM	1552	HG2	PRO	X	100	48.783	59.668	25.055	0.00	0.00
ATOM	1553	HG3	PRO	X	100	50.128	58.662	25.639	0.00	0.00
ATOM	1554	CB	PRO	X	100	50.673	60.766	25.388	0.00	0.00
ATOM	1555	HB2	PRO	X	100	50.179	61.672	25.036	0.00	0.00
ATOM	1556	HB3	PRO	X	100	51.375	60.482	24.604	0.00	0.00
ATOM	1557	CA	PRO	X	100	51.359	61.055	26.811	0.00	0.00
ATOM	1558	HA	PRO	X	100	52.257	60.443	26.902	0.00	0.00
ATOM	1559	C	PRO	X	100	51.894	62.490	26.905	0.00	0.00
ATOM	1560	O	PRO	X	100	51.269	63.345	27.537	0.00	0.00
ATOM	1561	N	TYR	X	101	52.966	62.726	26.197	0.00	0.00
ATOM	1562	H	TYR	X	101	53.490	61.916	25.899	0.00	0.00
ATOM	1563	CA	TYR	X	101	53.704	63.981	26.093	0.00	0.00
ATOM	1564	HA	TYR	X	101	53.265	64.676	26.809	0.00	0.00
ATOM	1565	CB	TYR	X	101	55.112	63.700	26.591	0.00	0.00
ATOM	1566	HB2	TYR	X	101	55.025	63.093	27.492	0.00	0.00
ATOM	1567	HB3	TYR	X	101	55.803	63.188	25.922	0.00	0.00
ATOM	1568	CG	TYR	X	101	55.773	64.994	26.937	0.00	0.00
ATOM	1569	CD1	TYR	X	101	56.197	65.968	25.935	0.00	0.00
ATOM	1570	HD1	TYR	X	101	56.031	65.673	24.910	0.00	0.00
ATOM	1571	CE1	TYR	X	101	56.756	67.220	26.309	0.00	0.00
ATOM	1572	HE1	TYR	X	101	57.023	67.958	25.567	0.00	0.00
ATOM	1573	CZ	TYR	X	101	56.767	67.566	27.690	0.00	0.00
ATOM	1574	OH	TYR	X	101	57.211	68.753	28.166	0.00	0.00
ATOM	1575	HH	TYR	X	101	57.447	69.380	27.478	0.00	0.00
ATOM	1576	CE2	TYR	X	101	56.335	66.634	28.684	0.00	0.00
ATOM	1577	HE2	TYR	X	101	56.196	67.074	29.660	0.00	0.00
ATOM	1578	CD2	TYR	X	101	55.826	65.422	28.279	0.00	0.00
ATOM	1579	HD2	TYR	X	101	55.437	64.683	28.963	0.00	0.00
ATOM	1580	C	TYR	X	101	53.651	64.548	24.690	0.00	0.00
ATOM	1581	O	TYR	X	101	54.294	64.034	23.842	0.00	0.00

ATOM	1582	N	PRO	X	102	53.045	65.769	24.482	0.00	0.00
ATOM	1583	CD	PRO	X	102	53.147	66.448	23.142	0.00	0.00
ATOM	1584	HD2	PRO	X	102	52.805	65.806	22.331	0.00	0.00
ATOM	1585	HD3	PRO	X	102	54.207	66.676	23.027	0.00	0.00
ATOM	1586	CG	PRO	X	102	52.251	67.630	23.153	0.00	0.00
ATOM	1587	HG2	PRO	X	102	51.250	67.337	22.837	0.00	0.00
ATOM	1588	HG3	PRO	X	102	52.741	68.442	22.616	0.00	0.00
ATOM	1589	CB	PRO	X	102	52.286	67.913	24.630	0.00	0.00
ATOM	1590	HB2	PRO	X	102	51.385	68.462	24.904	0.00	0.00
ATOM	1591	HB3	PRO	X	102	53.183	68.503	24.815	0.00	0.00
ATOM	1592	CA	PRO	X	102	52.363	66.612	25.359	0.00	0.00
ATOM	1593	HA	PRO	X	102	52.835	66.744	26.332	0.00	0.00
ATOM	1594	C	PRO	X	102	51.015	66.032	25.648	0.00	0.00
ATOM	1595	O	PRO	X	102	50.527	65.068	25.077	0.00	0.00
ATOM	1596	N	ARG	X	103	50.375	66.618	26.658	0.00	0.00
ATOM	1597	H	ARG	X	103	50.759	67.464	27.054	0.00	0.00
ATOM	1598	CA	ARG	X	103	49.177	65.976	27.239	0.00	0.00
ATOM	1599	HA	ARG	X	103	49.306	64.916	27.458	0.00	0.00
ATOM	1600	CB	ARG	X	103	48.789	66.495	28.661	0.00	0.00
ATOM	1601	HB2	ARG	X	103	49.703	66.580	29.249	0.00	0.00
ATOM	1602	HB3	ARG	X	103	48.223	67.417	28.532	0.00	0.00
ATOM	1603	CG	ARG	X	103	47.888	65.525	29.394	0.00	0.00
ATOM	1604	HG2	ARG	X	103	46.978	65.228	28.873	0.00	0.00
ATOM	1605	HG3	ARG	X	103	48.541	64.662	29.525	0.00	0.00
ATOM	1606	CD	ARG	X	103	47.519	65.958	30.771	0.00	0.00
ATOM	1607	HD2	ARG	X	103	47.218	65.071	31.328	0.00	0.00
ATOM	1608	HD3	ARG	X	103	48.436	66.309	31.243	0.00	0.00
ATOM	1609	NE	ARG	X	103	46.482	66.957	31.008	0.00	0.00
ATOM	1610	HE	ARG	X	103	45.543	66.731	30.712	0.00	0.00
ATOM	1611	CZ	ARG	X	103	46.637	68.244	31.303	0.00	0.00
ATOM	1612	NH1	ARG	X	103	47.813	68.679	31.606	0.00	0.00
ATOM	1613	HH11	ARG	X	103	48.527	67.976	31.738	0.00	0.00
ATOM	1614	HH12	ARG	X	103	47.901	69.666	31.800	0.00	0.00
ATOM	1615	NH2	ARG	X	103	45.634	69.113	31.147	0.00	0.00
ATOM	1616	HH21	ARG	X	103	44.742	68.716	30.890	0.00	0.00
ATOM	1617	HH22	ARG	X	103	45.844	70.101	31.170	0.00	0.00
ATOM	1618	C	ARG	X	103	47.960	66.033	26.323	0.00	0.00
ATOM	1619	O	ARG	X	103	47.617	67.160	25.926	0.00	0.00
ATOM	1620	N	PRO	X	104	47.382	64.889	25.871	0.00	0.00
ATOM	1621	CD	PRO	X	104	47.825	63.502	26.176	0.00	0.00
ATOM	1622	HD2	PRO	X	104	48.187	63.308	27.186	0.00	0.00
ATOM	1623	HD3	PRO	X	104	48.701	63.284	25.565	0.00	0.00
ATOM	1624	CG	PRO	X	104	46.684	62.601	25.752	0.00	0.00
ATOM	1625	HG2	PRO	X	104	45.957	62.365	26.528	0.00	0.00
ATOM	1626	HG3	PRO	X	104	47.077	61.696	25.286	0.00	0.00
ATOM	1627	CB	PRO	X	104	46.080	63.426	24.648	0.00	0.00
ATOM	1628	HB2	PRO	X	104	45.072	63.068	24.440	0.00	0.00
ATOM	1629	HB3	PRO	X	104	46.492	63.171	23.671	0.00	0.00
ATOM	1630	CA	PRO	X	104	46.287	64.916	24.891	0.00	0.00
ATOM	1631	HA	PRO	X	104	46.749	65.288	23.976	0.00	0.00
ATOM	1632	C	PRO	X	104	45.025	65.623	25.364	0.00	0.00
ATOM	1633	O	PRO	X	104	44.807	65.698	26.570	0.00	0.00
ATOM	1634	N	THR	X	105	44.212	66.027	24.409	0.00	0.00
ATOM	1635	H	THR	X	105	44.566	65.954	23.465	0.00	0.00
ATOM	1636	CA	THR	X	105	42.812	66.440	24.558	0.00	0.00
ATOM	1637	HA	THR	X	105	42.571	66.257	25.606	0.00	0.00
ATOM	1638	CB	THR	X	105	42.529	67.868	24.257	0.00	0.00
ATOM	1639	HB	THR	X	105	41.475	68.140	24.194	0.00	0.00
ATOM	1640	CG2	THR	X	105	43.043	68.719	25.415	0.00	0.00
ATOM	1641	HG21	THR	X	105	43.883	68.248	25.925	0.00	0.00
ATOM	1642	HG22	THR	X	105	43.311	69.718	25.073	0.00	0.00
ATOM	1643	HG23	THR	X	105	42.295	68.868	26.194	0.00	0.00
ATOM	1644	OG1	THR	X	105	43.260	68.245	23.032	0.00	0.00
ATOM	1645	HG1	THR	X	105	42.765	68.967	22.638	0.00	0.00
ATOM	1646	C	THR	X	105	41.837	65.497	23.844	0.00	0.00
ATOM	1647	O	THR	X	105	40.656	65.426	24.243	0.00	0.00
ATOM	1648	N	SER	X	106	42.225	64.773	22.819	0.00	0.00
ATOM	1649	H	SER	X	106	43.183	64.884	22.518	0.00	0.00
ATOM	1650	CA	SER	X	106	41.571	63.607	22.280	0.00	0.00
ATOM	1651	HA	SER	X	106	40.666	63.862	21.728	0.00	0.00

ATOM	1652	CB	SER	X	106	42.424	62.878	21.178	0.00	0.00
ATOM	1653	HB2	SER	X	106	43.332	62.501	21.647	0.00	0.00
ATOM	1654	HB3	SER	X	106	41.923	61.997	20.776	0.00	0.00
ATOM	1655	OG	SER	X	106	42.886	63.753	20.139	0.00	0.00
ATOM	1656	HG	SER	X	106	42.166	64.262	19.757	0.00	0.00
ATOM	1657	C	SER	X	106	41.243	62.579	23.338	0.00	0.00
ATOM	1658	O	SER	X	106	42.151	62.450	24.238	0.00	0.00
ATOM	1659	N	PRO	X	107	40.169	61.725	23.214	0.00	0.00
ATOM	1660	CD	PRO	X	107	39.137	61.953	22.259	0.00	0.00
ATOM	1661	HD2	PRO	X	107	39.610	62.026	21.280	0.00	0.00
ATOM	1662	HD3	PRO	X	107	38.581	62.865	22.472	0.00	0.00
ATOM	1663	CG	PRO	X	107	38.182	60.768	22.426	0.00	0.00
ATOM	1664	HG2	PRO	X	107	38.309	59.986	21.678	0.00	0.00
ATOM	1665	HG3	PRO	X	107	37.180	61.190	22.347	0.00	0.00
ATOM	1666	CB	PRO	X	107	38.403	60.213	23.785	0.00	0.00
ATOM	1667	HB2	PRO	X	107	38.263	59.134	23.853	0.00	0.00
ATOM	1668	HB3	PRO	X	107	37.683	60.721	24.427	0.00	0.00
ATOM	1669	CA	PRO	X	107	39.865	60.597	24.078	0.00	0.00
ATOM	1670	HA	PRO	X	107	39.917	60.874	25.131	0.00	0.00
ATOM	1671	C	PRO	X	107	40.697	59.361	23.862	0.00	0.00
ATOM	1672	O	PRO	X	107	41.178	59.119	22.738	0.00	0.00
ATOM	1673	N	THR	X	108	40.894	58.489	24.864	0.00	0.00
ATOM	1674	H	THR	X	108	40.499	58.676	25.775	0.00	0.00
ATOM	1675	CA	THR	X	108	41.672	57.229	24.673	0.00	0.00
ATOM	1676	HA	THR	X	108	41.503	56.803	23.684	0.00	0.00
ATOM	1677	CB	THR	X	108	43.171	57.419	24.744	0.00	0.00
ATOM	1678	HB	THR	X	108	43.442	58.237	24.076	0.00	0.00
ATOM	1679	CG2	THR	X	108	43.695	57.741	26.217	0.00	0.00
ATOM	1680	HG21	THR	X	108	44.707	58.141	26.268	0.00	0.00
ATOM	1681	HG22	THR	X	108	43.086	58.555	26.610	0.00	0.00
ATOM	1682	HG23	THR	X	108	43.610	56.880	26.879	0.00	0.00
ATOM	1683	OG1	THR	X	108	43.744	56.198	24.417	0.00	0.00
ATOM	1684	HG1	THR	X	108	44.616	56.198	24.818	0.00	0.00
ATOM	1685	C	THR	X	108	41.188	56.206	25.745	0.00	0.00
ATOM	1686	O	THR	X	108	40.893	56.625	26.845	0.00	0.00
ATOM	1687	N	PRO	X	109	41.130	54.853	25.542	0.00	0.00
ATOM	1688	CD	PRO	X	109	41.298	54.190	24.332	0.00	0.00
ATOM	1689	HD2	PRO	X	109	42.348	54.131	24.048	0.00	0.00
ATOM	1690	HD3	PRO	X	109	40.672	54.690	23.592	0.00	0.00
ATOM	1691	CG	PRO	X	109	40.696	52.802	24.492	0.00	0.00
ATOM	1692	HG2	PRO	X	109	41.295	52.039	23.996	0.00	0.00
ATOM	1693	HG3	PRO	X	109	39.647	52.826	24.195	0.00	0.00
ATOM	1694	CB	PRO	X	109	40.598	52.573	26.044	0.00	0.00
ATOM	1695	HB2	PRO	X	109	41.286	51.783	26.346	0.00	0.00
ATOM	1696	HB3	PRO	X	109	39.590	52.275	26.330	0.00	0.00
ATOM	1697	CA	PRO	X	109	40.829	53.963	26.638	0.00	0.00
ATOM	1698	HA	PRO	X	109	39.855	54.270	27.019	0.00	0.00
ATOM	1699	C	PRO	X	109	41.791	53.964	27.791	0.00	0.00
ATOM	1700	O	PRO	X	109	42.949	54.258	27.720	0.00	0.00
ATOM	1701	N	VAL	X	110	41.194	53.742	28.997	0.00	0.00
ATOM	1702	H	VAL	X	110	40.237	53.425	29.051	0.00	0.00
ATOM	1703	CA	VAL	X	110	41.856	53.786	30.360	0.00	0.00
ATOM	1704	HA	VAL	X	110	42.874	54.138	30.190	0.00	0.00
ATOM	1705	CB	VAL	X	110	41.124	54.680	31.316	0.00	0.00
ATOM	1706	HB	VAL	X	110	40.151	54.243	31.545	0.00	0.00
ATOM	1707	CG1	VAL	X	110	41.739	54.878	32.758	0.00	0.00
ATOM	1708	HG11	VAL	X	110	42.627	55.505	32.827	0.00	0.00
ATOM	1709	HG12	VAL	X	110	40.960	55.430	33.283	0.00	0.00
ATOM	1710	HG13	VAL	X	110	41.740	53.914	33.267	0.00	0.00
ATOM	1711	CG2	VAL	X	110	40.804	56.045	30.790	0.00	0.00
ATOM	1712	HG21	VAL	X	110	39.856	56.364	31.223	0.00	0.00
ATOM	1713	HG22	VAL	X	110	41.589	56.775	30.991	0.00	0.00
ATOM	1714	HG23	VAL	X	110	40.600	56.047	29.720	0.00	0.00
ATOM	1715	C	VAL	X	110	42.008	52.369	30.909	0.00	0.00
ATOM	1716	O	VAL	X	110	41.052	51.645	30.835	0.00	0.00
ATOM	1717	N	LEU	X	111	43.142	52.044	31.482	0.00	0.00
ATOM	1718	H	LEU	X	111	43.921	52.683	31.409	0.00	0.00
ATOM	1719	CA	LEU	X	111	43.365	50.963	32.419	0.00	0.00
ATOM	1720	HA	LEU	X	111	42.487	50.316	32.420	0.00	0.00
ATOM	1721	CB	LEU	X	111	44.450	49.953	31.887	0.00	0.00

ATOM	1722	HB2	LEU	X	111	45.306	50.544	31.562	0.00	0.00
ATOM	1723	HB3	LEU	X	111	44.730	49.297	32.712	0.00	0.00
ATOM	1724	CG	LEU	X	111	44.003	48.969	30.744	0.00	0.00
ATOM	1725	HG	LEU	X	111	43.409	49.542	30.032	0.00	0.00
ATOM	1726	CD1	LEU	X	111	45.241	48.458	30.000	0.00	0.00
ATOM	1727	HD11	LEU	X	111	45.807	49.260	29.527	0.00	0.00
ATOM	1728	HD12	LEU	X	111	45.821	47.854	30.698	0.00	0.00
ATOM	1729	HD13	LEU	X	111	44.926	47.800	29.191	0.00	0.00
ATOM	1730	CD2	LEU	X	111	43.137	47.749	31.310	0.00	0.00
ATOM	1731	HD21	LEU	X	111	43.837	47.011	31.703	0.00	0.00
ATOM	1732	HD22	LEU	X	111	42.553	48.062	32.176	0.00	0.00
ATOM	1733	HD23	LEU	X	111	42.516	47.423	30.476	0.00	0.00
ATOM	1734	C	LEU	X	111	43.737	51.478	33.782	0.00	0.00
ATOM	1735	O	LEU	X	111	44.692	52.182	33.878	0.00	0.00
ATOM	1736	N	VAL	X	112	42.934	51.045	34.778	0.00	0.00
ATOM	1737	H	VAL	X	112	42.138	50.494	34.492	0.00	0.00
ATOM	1738	CA	VAL	X	112	43.266	51.252	36.173	0.00	0.00
ATOM	1739	HA	VAL	X	112	43.950	52.090	36.310	0.00	0.00
ATOM	1740	CB	VAL	X	112	42.040	51.766	36.996	0.00	0.00
ATOM	1741	HB	VAL	X	112	41.350	50.922	37.014	0.00	0.00
ATOM	1742	CG1	VAL	X	112	42.421	52.068	38.471	0.00	0.00
ATOM	1743	HG11	VAL	X	112	43.352	52.623	38.351	0.00	0.00
ATOM	1744	HG12	VAL	X	112	41.647	52.655	38.966	0.00	0.00
ATOM	1745	HG13	VAL	X	112	42.592	51.104	38.950	0.00	0.00
ATOM	1746	CG2	VAL	X	112	41.238	52.998	36.463	0.00	0.00
ATOM	1747	HG21	VAL	X	112	40.288	53.109	36.987	0.00	0.00
ATOM	1748	HG22	VAL	X	112	41.894	53.856	36.612	0.00	0.00
ATOM	1749	HG23	VAL	X	112	40.925	52.913	35.422	0.00	0.00
ATOM	1750	C	VAL	X	112	43.823	49.995	36.858	0.00	0.00
ATOM	1751	O	VAL	X	112	43.027	49.101	36.903	0.00	0.00
ATOM	1752	N	TRP	X	113	45.027	50.086	37.402	0.00	0.00
ATOM	1753	H	TRP	X	113	45.546	50.936	37.235	0.00	0.00
ATOM	1754	CA	TRP	X	113	45.628	49.015	38.182	0.00	0.00
ATOM	1755	HA	TRP	X	113	45.240	48.116	37.703	0.00	0.00
ATOM	1756	CB	TRP	X	113	47.106	49.219	38.113	0.00	0.00
ATOM	1757	HB2	TRP	X	113	47.477	49.248	37.088	0.00	0.00
ATOM	1758	HB3	TRP	X	113	47.276	50.198	38.561	0.00	0.00
ATOM	1759	CG	TRP	X	113	47.933	48.285	38.847	0.00	0.00
ATOM	1760	CD1	TRP	X	113	48.737	48.642	39.851	0.00	0.00
ATOM	1761	HD1	TRP	X	113	48.966	49.670	40.089	0.00	0.00
ATOM	1762	NE1	TRP	X	113	49.246	47.473	40.313	0.00	0.00
ATOM	1763	HE1	TRP	X	113	49.946	47.475	41.042	0.00	0.00
ATOM	1764	CE2	TRP	X	113	48.827	46.348	39.605	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	49.213	44.998	39.690	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	49.964	44.725	40.416	0.00	0.00
ATOM	1767	CH2	TRP	X	113	48.853	44.193	38.579	0.00	0.00
ATOM	1768	HH2	TRP	X	113	49.288	43.222	38.392	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	47.952	44.653	37.583	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	47.866	44.083	36.669	0.00	0.00
ATOM	1771	CE3	TRP	X	113	47.473	45.970	37.653	0.00	0.00
ATOM	1772	HE3	TRP	X	113	46.731	46.237	36.916	0.00	0.00
ATOM	1773	CD2	TRP	X	113	48.053	46.894	38.576	0.00	0.00
ATOM	1774	C	TRP	X	113	45.044	48.998	39.654	0.00	0.00
ATOM	1775	O	TRP	X	113	44.978	49.977	40.395	0.00	0.00
ATOM	1776	N	ILE	X	114	44.828	47.728	40.051	0.00	0.00
ATOM	1777	H	ILE	X	114	44.964	46.986	39.379	0.00	0.00
ATOM	1778	CA	ILE	X	114	44.537	47.404	41.516	0.00	0.00
ATOM	1779	HA	ILE	X	114	44.631	48.295	42.137	0.00	0.00
ATOM	1780	CB	ILE	X	114	43.084	46.886	41.592	0.00	0.00
ATOM	1781	HB	ILE	X	114	42.965	45.941	41.061	0.00	0.00
ATOM	1782	CG2	ILE	X	114	42.703	46.652	43.089	0.00	0.00
ATOM	1783	HG21	ILE	X	114	41.645	46.413	42.986	0.00	0.00
ATOM	1784	HG22	ILE	X	114	43.162	45.746	43.485	0.00	0.00
ATOM	1785	HG23	ILE	X	114	42.749	47.551	43.703	0.00	0.00
ATOM	1786	CG1	ILE	X	114	42.077	47.900	40.877	0.00	0.00
ATOM	1787	HG12	ILE	X	114	42.097	48.843	41.425	0.00	0.00
ATOM	1788	HG13	ILE	X	114	42.417	48.129	39.867	0.00	0.00
ATOM	1789	CD1	ILE	X	114	40.640	47.470	40.620	0.00	0.00
ATOM	1790	HD11	ILE	X	114	40.618	46.675	39.875	0.00	0.00
ATOM	1791	HD12	ILE	X	114	40.125	47.101	41.507	0.00	0.00

ATOM	1792	HD13	ILE	X	114	40.194	48.389	40.240	0.00	0.00
ATOM	1793	C	ILE	X	114	45.518	46.310	42.011	0.00	0.00
ATOM	1794	O	ILE	X	114	45.621	45.268	41.358	0.00	0.00
ATOM	1795	N	TYR	X	115	46.180	46.464	43.200	0.00	0.00
ATOM	1796	H	TYR	X	115	46.037	47.350	43.665	0.00	0.00
ATOM	1797	CA	TYR	X	115	47.383	45.725	43.621	0.00	0.00
ATOM	1798	HA	TYR	X	115	47.856	45.393	42.696	0.00	0.00
ATOM	1799	CB	TYR	X	115	48.372	46.743	44.360	0.00	0.00
ATOM	1800	HB2	TYR	X	115	49.290	46.161	44.445	0.00	0.00
ATOM	1801	HB3	TYR	X	115	48.548	47.597	43.706	0.00	0.00
ATOM	1802	CG	TYR	X	115	47.959	47.310	45.716	0.00	0.00
ATOM	1803	CD1	TYR	X	115	48.061	46.444	46.853	0.00	0.00
ATOM	1804	HD1	TYR	X	115	48.335	45.409	46.712	0.00	0.00
ATOM	1805	CE1	TYR	X	115	47.699	46.841	48.173	0.00	0.00
ATOM	1806	HE1	TYR	X	115	47.590	46.194	49.031	0.00	0.00
ATOM	1807	CZ	TYR	X	115	47.487	48.235	48.377	0.00	0.00
ATOM	1808	OH	TYR	X	115	47.143	48.694	49.584	0.00	0.00
ATOM	1809	HH	TYR	X	115	46.707	49.546	49.505	0.00	0.00
ATOM	1810	CE2	TYR	X	115	47.452	49.079	47.240	0.00	0.00
ATOM	1811	HE2	TYR	X	115	47.258	50.130	47.396	0.00	0.00
ATOM	1812	CD2	TYR	X	115	47.751	48.695	45.952	0.00	0.00
ATOM	1813	HD2	TYR	X	115	47.824	49.448	45.182	0.00	0.00
ATOM	1814	C	TYR	X	115	47.019	44.444	44.405	0.00	0.00
ATOM	1815	O	TYR	X	115	46.262	44.397	45.360	0.00	0.00
ATOM	1816	N	GLY	X	116	47.696	43.328	44.072	0.00	0.00
ATOM	1817	H	GLY	X	116	48.444	43.543	43.428	0.00	0.00
ATOM	1818	CA	GLY	X	116	47.816	42.090	44.907	0.00	0.00
ATOM	1819	HA2	GLY	X	116	46.780	41.816	45.169	0.00	0.00
ATOM	1820	HA3	GLY	X	116	48.337	41.306	44.297	0.00	0.00
ATOM	1821	C	GLY	X	116	48.574	42.260	46.221	0.00	0.00
ATOM	1822	O	GLY	X	116	49.283	43.254	46.323	0.00	0.00
ATOM	1823	N	GLY	X	117	48.421	41.260	47.114	0.00	0.00
ATOM	1824	H	GLY	X	117	47.753	40.550	46.850	0.00	0.00
ATOM	1825	CA	GLY	X	117	49.050	41.038	48.444	0.00	0.00
ATOM	1826	HA2	GLY	X	117	49.863	40.316	48.407	0.00	0.00
ATOM	1827	HA3	GLY	X	117	49.577	41.978	48.838	0.00	0.00
ATOM	1828	C	GLY	X	117	48.086	40.487	49.509	0.00	0.00
ATOM	1829	O	GLY	X	117	48.106	41.056	50.636	0.00	0.00
ATOM	1830	N	GLY	X	118	47.179	39.534	49.097	0.00	0.00
ATOM	1831	H	GLY	X	118	47.288	39.280	48.125	0.00	0.00
ATOM	1832	CA	GLY	X	118	46.203	38.854	49.875	0.00	0.00
ATOM	1833	HA2	GLY	X	118	45.556	38.251	49.247	0.00	0.00
ATOM	1834	HA3	GLY	X	118	46.771	38.204	50.559	0.00	0.00
ATOM	1835	C	GLY	X	118	45.238	39.739	50.692	0.00	0.00
ATOM	1836	O	GLY	X	118	44.736	39.279	51.745	0.00	0.00
ATOM	1837	N	PHE	X	119	45.122	40.994	50.281	0.00	0.00
ATOM	1838	H	PHE	X	119	45.735	41.215	49.509	0.00	0.00
ATOM	1839	CA	PHE	X	119	44.505	42.132	51.026	0.00	0.00
ATOM	1840	HA	PHE	X	119	44.655	43.047	50.454	0.00	0.00
ATOM	1841	CB	PHE	X	119	42.953	41.926	51.187	0.00	0.00
ATOM	1842	HB2	PHE	X	119	42.842	41.058	51.837	0.00	0.00
ATOM	1843	HB3	PHE	X	119	42.500	42.834	51.584	0.00	0.00
ATOM	1844	CG	PHE	X	119	42.150	41.623	49.847	0.00	0.00
ATOM	1845	CD1	PHE	X	119	41.442	42.518	49.106	0.00	0.00
ATOM	1846	HD1	PHE	X	119	41.586	43.570	49.302	0.00	0.00
ATOM	1847	CE1	PHE	X	119	40.501	42.138	48.174	0.00	0.00
ATOM	1848	HE1	PHE	X	119	39.826	42.873	47.761	0.00	0.00
ATOM	1849	CZ	PHE	X	119	40.225	40.756	47.976	0.00	0.00
ATOM	1850	HZ	PHE	X	119	39.367	40.475	47.384	0.00	0.00
ATOM	1851	CE2	PHE	X	119	41.076	39.844	48.580	0.00	0.00
ATOM	1852	HE2	PHE	X	119	40.814	38.819	48.361	0.00	0.00
ATOM	1853	CD2	PHE	X	119	42.013	40.248	49.539	0.00	0.00
ATOM	1854	HD2	PHE	X	119	42.629	39.497	50.013	0.00	0.00
ATOM	1855	C	PHE	X	119	45.102	42.517	52.380	0.00	0.00
ATOM	1856	O	PHE	X	119	44.665	43.493	52.968	0.00	0.00
ATOM	1857	N	TYR	X	120	46.133	41.825	52.850	0.00	0.00
ATOM	1858	H	TYR	X	120	46.203	40.905	52.439	0.00	0.00
ATOM	1859	CA	TYR	X	120	46.771	42.256	54.179	0.00	0.00
ATOM	1860	HA	TYR	X	120	46.017	42.679	54.842	0.00	0.00
ATOM	1861	CB	TYR	X	120	47.193	41.006	55.042	0.00	0.00

ATOM	1862	HB2	TYR	X	120	47.359	41.338	56.067	0.00	0.00
ATOM	1863	HB3	TYR	X	120	46.309	40.393	55.214	0.00	0.00
ATOM	1864	CG	TYR	X	120	48.372	40.080	54.665	0.00	0.00
ATOM	1865	CD1	TYR	X	120	49.533	39.905	55.483	0.00	0.00
ATOM	1866	HD1	TYR	X	120	49.698	40.513	56.361	0.00	0.00
ATOM	1867	CE1	TYR	X	120	50.518	38.986	55.036	0.00	0.00
ATOM	1868	HE1	TYR	X	120	51.467	38.876	55.540	0.00	0.00
ATOM	1869	CZ	TYR	X	120	50.231	38.051	53.987	0.00	0.00
ATOM	1870	OH	TYR	X	120	51.094	37.041	53.767	0.00	0.00
ATOM	1871	HH	TYR	X	120	51.808	37.052	54.409	0.00	0.00
ATOM	1872	CE2	TYR	X	120	49.038	38.231	53.232	0.00	0.00
ATOM	1873	HE2	TYR	X	120	48.904	37.649	52.332	0.00	0.00
ATOM	1874	CD2	TYR	X	120	48.099	39.221	53.635	0.00	0.00
ATOM	1875	HD2	TYR	X	120	47.194	39.234	53.046	0.00	0.00
ATOM	1876	C	TYR	X	120	47.930	43.222	53.997	0.00	0.00
ATOM	1877	O	TYR	X	120	48.573	43.600	55.020	0.00	0.00
ATOM	1878	N	SER	X	121	48.297	43.533	52.788	0.00	0.00
ATOM	1879	H	SER	X	121	47.782	43.116	52.026	0.00	0.00
ATOM	1880	CA	SER	X	121	49.627	44.053	52.378	0.00	0.00
ATOM	1881	HA	SER	X	121	49.860	44.949	52.953	0.00	0.00
ATOM	1882	CB	SER	X	121	50.719	43.054	52.607	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.713	43.443	52.384	0.00	0.00
ATOM	1884	HB3	SER	X	121	50.624	42.903	53.682	0.00	0.00
ATOM	1885	OG	SER	X	121	50.501	41.848	51.847	0.00	0.00
ATOM	1886	HG	SER	X	121	49.582	41.572	51.891	0.00	0.00
ATOM	1887	C	SER	X	121	49.565	44.433	50.845	0.00	0.00
ATOM	1888	O	SER	X	121	48.556	44.265	50.120	0.00	0.00
ATOM	1889	N	GLY	X	122	50.714	44.914	50.314	0.00	0.00
ATOM	1890	H	GLY	X	122	51.538	45.080	50.873	0.00	0.00
ATOM	1891	CA	GLY	X	122	50.823	45.567	49.017	0.00	0.00
ATOM	1892	HA2	GLY	X	122	51.764	45.261	48.430	0.00	0.00
ATOM	1893	HA3	GLY	X	122	50.039	45.307	48.314	0.00	0.00
ATOM	1894	C	GLY	X	122	50.694	47.080	48.985	0.00	0.00
ATOM	1895	O	GLY	X	122	50.269	47.782	49.931	0.00	0.00
ATOM	1896	N	ALA	X	123	51.094	47.622	47.837	0.00	0.00
ATOM	1897	H	ALA	X	123	51.483	47.053	47.098	0.00	0.00
ATOM	1898	CA	ALA	X	123	51.128	49.014	47.521	0.00	0.00
ATOM	1899	HA	ALA	X	123	50.252	49.492	47.960	0.00	0.00
ATOM	1900	CB	ALA	X	123	52.283	49.586	48.277	0.00	0.00
ATOM	1901	HB1	ALA	X	123	52.195	50.672	48.298	0.00	0.00
ATOM	1902	HB2	ALA	X	123	52.236	49.263	49.317	0.00	0.00
ATOM	1903	HB3	ALA	X	123	53.242	49.343	47.819	0.00	0.00
ATOM	1904	C	ALA	X	123	51.134	49.309	45.986	0.00	0.00
ATOM	1905	O	ALA	X	123	51.768	48.601	45.200	0.00	0.00
ATOM	1906	N	SER	X	124	50.653	50.469	45.549	0.00	0.00
ATOM	1907	H	SER	X	124	50.044	51.038	46.121	0.00	0.00
ATOM	1908	CA	SER	X	124	50.703	50.807	44.076	0.00	0.00
ATOM	1909	HA	SER	X	124	50.511	49.901	43.501	0.00	0.00
ATOM	1910	CB	SER	X	124	49.608	51.862	43.685	0.00	0.00
ATOM	1911	HB2	SER	X	124	49.223	52.385	44.561	0.00	0.00
ATOM	1912	HB3	SER	X	124	49.934	52.529	42.887	0.00	0.00
ATOM	1913	OG	SER	X	124	48.551	51.176	43.031	0.00	0.00
ATOM	1914	HG	SER	X	124	47.775	51.269	43.588	0.00	0.00
ATOM	1915	C	SER	X	124	52.039	51.458	43.658	0.00	0.00
ATOM	1916	O	SER	X	124	52.326	51.551	42.451	0.00	0.00
ATOM	1917	N	SER	X	125	52.765	51.925	44.670	0.00	0.00
ATOM	1918	H	SER	X	125	52.438	51.672	45.591	0.00	0.00
ATOM	1919	CA	SER	X	125	53.995	52.720	44.471	0.00	0.00
ATOM	1920	HA	SER	X	125	53.956	53.510	43.722	0.00	0.00
ATOM	1921	CB	SER	X	125	54.292	53.318	45.850	0.00	0.00
ATOM	1922	HB2	SER	X	125	55.214	53.858	45.635	0.00	0.00
ATOM	1923	HB3	SER	X	125	53.446	53.943	46.139	0.00	0.00
ATOM	1924	OG	SER	X	125	54.548	52.387	46.873	0.00	0.00
ATOM	1925	HG	SER	X	125	55.486	52.196	46.951	0.00	0.00
ATOM	1926	C	SER	X	125	55.246	51.907	43.924	0.00	0.00
ATOM	1927	O	SER	X	125	56.346	52.428	43.780	0.00	0.00
ATOM	1928	N	LEU	X	126	54.975	50.580	43.591	0.00	0.00
ATOM	1929	H	LEU	X	126	54.034	50.225	43.680	0.00	0.00
ATOM	1930	CA	LEU	X	126	56.005	49.595	43.140	0.00	0.00
ATOM	1931	HA	LEU	X	126	56.755	49.774	43.910	0.00	0.00

ATOM	1932	CB	LEU	X	126	55.521	48.187	43.108	0.00	0.00
ATOM	1933	HB2	LEU	X	126	54.804	48.085	42.293	0.00	0.00
ATOM	1934	HB3	LEU	X	126	56.343	47.541	42.799	0.00	0.00
ATOM	1935	CG	LEU	X	126	55.049	47.526	44.432	0.00	0.00
ATOM	1936	HG	LEU	X	126	54.091	47.945	44.739	0.00	0.00
ATOM	1937	CD1	LEU	X	126	54.913	46.013	44.202	0.00	0.00
ATOM	1938	HD11	LEU	X	126	54.454	45.477	45.033	0.00	0.00
ATOM	1939	HD12	LEU	X	126	54.459	45.788	43.237	0.00	0.00
ATOM	1940	HD13	LEU	X	126	55.948	45.698	44.063	0.00	0.00
ATOM	1941	CD2	LEU	X	126	55.997	47.773	45.618	0.00	0.00
ATOM	1942	HD21	LEU	X	126	56.952	47.316	45.357	0.00	0.00
ATOM	1943	HD22	LEU	X	126	56.061	48.835	45.851	0.00	0.00
ATOM	1944	HD23	LEU	X	126	55.703	47.232	46.518	0.00	0.00
ATOM	1945	C	LEU	X	126	56.553	50.108	41.790	0.00	0.00
ATOM	1946	O	LEU	X	126	55.752	50.617	41.022	0.00	0.00
ATOM	1947	N	ASP	X	127	57.800	49.861	41.492	0.00	0.00
ATOM	1948	H	ASP	X	127	58.352	49.283	42.109	0.00	0.00
ATOM	1949	CA	ASP	X	127	58.347	50.203	40.167	0.00	0.00
ATOM	1950	HA	ASP	X	127	57.983	51.212	39.974	0.00	0.00
ATOM	1951	CB	ASP	X	127	59.870	50.143	40.299	0.00	0.00
ATOM	1952	HB2	ASP	X	127	60.137	50.823	41.108	0.00	0.00
ATOM	1953	HB3	ASP	X	127	60.187	49.160	40.646	0.00	0.00
ATOM	1954	CG	ASP	X	127	60.569	50.702	39.111	0.00	0.00
ATOM	1955	OD1	ASP	X	127	60.499	51.899	38.798	0.00	0.00
ATOM	1956	OD2	ASP	X	127	61.203	49.806	38.473	0.00	0.00
ATOM	1957	C	ASP	X	127	57.944	49.165	39.065	0.00	0.00
ATOM	1958	O	ASP	X	127	58.071	49.435	37.834	0.00	0.00
ATOM	1959	N	VAL	X	128	57.429	48.030	39.463	0.00	0.00
ATOM	1960	H	VAL	X	128	57.455	47.835	40.454	0.00	0.00
ATOM	1961	CA	VAL	X	128	56.870	47.038	38.555	0.00	0.00
ATOM	1962	HA	VAL	X	128	57.546	47.038	37.700	0.00	0.00
ATOM	1963	CB	VAL	X	128	56.924	45.685	39.232	0.00	0.00
ATOM	1964	HB	VAL	X	128	57.929	45.537	39.627	0.00	0.00
ATOM	1965	CG1	VAL	X	128	55.895	45.586	40.375	0.00	0.00
ATOM	1966	HG11	VAL	X	128	55.557	46.552	40.750	0.00	0.00
ATOM	1967	HG12	VAL	X	128	55.067	44.941	40.082	0.00	0.00
ATOM	1968	HG13	VAL	X	128	56.375	45.123	41.237	0.00	0.00
ATOM	1969	CG2	VAL	X	128	56.786	44.516	38.298	0.00	0.00
ATOM	1970	HG21	VAL	X	128	57.031	43.599	38.834	0.00	0.00
ATOM	1971	HG22	VAL	X	128	55.749	44.392	37.985	0.00	0.00
ATOM	1972	HG23	VAL	X	128	57.502	44.647	37.487	0.00	0.00
ATOM	1973	C	VAL	X	128	55.466	47.372	38.090	0.00	0.00
ATOM	1974	O	VAL	X	128	54.950	46.750	37.142	0.00	0.00
ATOM	1975	N	TYR	X	129	54.817	48.395	38.717	0.00	0.00
ATOM	1976	H	TYR	X	129	55.301	48.860	39.472	0.00	0.00
ATOM	1977	CA	TYR	X	129	53.515	48.944	38.307	0.00	0.00
ATOM	1978	HA	TYR	X	129	53.116	48.303	37.521	0.00	0.00
ATOM	1979	CB	TYR	X	129	52.629	48.927	39.584	0.00	0.00
ATOM	1980	HB2	TYR	X	129	53.095	49.657	40.246	0.00	0.00
ATOM	1981	HB3	TYR	X	129	51.622	49.265	39.342	0.00	0.00
ATOM	1982	CG	TYR	X	129	52.404	47.706	40.526	0.00	0.00
ATOM	1983	CD1	TYR	X	129	52.434	46.390	40.063	0.00	0.00
ATOM	1984	HD1	TYR	X	129	52.654	46.216	39.020	0.00	0.00
ATOM	1985	CE1	TYR	X	129	52.438	45.268	40.880	0.00	0.00
ATOM	1986	HE1	TYR	X	129	52.456	44.273	40.461	0.00	0.00
ATOM	1987	CZ	TYR	X	129	52.016	45.484	42.269	0.00	0.00
ATOM	1988	OH	TYR	X	129	51.822	44.385	43.080	0.00	0.00
ATOM	1989	HH	TYR	X	129	51.885	43.556	42.601	0.00	0.00
ATOM	1990	CE2	TYR	X	129	51.832	46.804	42.670	0.00	0.00
ATOM	1991	HE2	TYR	X	129	51.483	46.921	43.686	0.00	0.00
ATOM	1992	CD2	TYR	X	129	52.243	47.898	41.898	0.00	0.00
ATOM	1993	HD2	TYR	X	129	52.070	48.898	42.268	0.00	0.00
ATOM	1994	C	TYR	X	129	53.523	50.350	37.674	0.00	0.00
ATOM	1995	O	TYR	X	129	52.543	51.036	37.396	0.00	0.00
ATOM	1996	N	ASP	X	130	54.741	50.764	37.252	0.00	0.00
ATOM	1997	H	ASP	X	130	55.485	50.094	37.387	0.00	0.00
ATOM	1998	CA	ASP	X	130	54.969	52.049	36.464	0.00	0.00
ATOM	1999	HA	ASP	X	130	54.323	52.849	36.827	0.00	0.00
ATOM	2000	CB	ASP	X	130	56.405	52.432	36.479	0.00	0.00
ATOM	2001	HB2	ASP	X	130	56.741	52.372	37.514	0.00	0.00

ATOM	2002	HB3	ASP	X	130	56.924	51.736	35.820	0.00	0.00
ATOM	2003	CG	ASP	X	130	56.510	53.922	35.924	0.00	0.00
ATOM	2004	OD1	ASP	X	130	56.214	54.278	34.759	0.00	0.00
ATOM	2005	OD2	ASP	X	130	56.838	54.737	36.773	0.00	0.00
ATOM	2006	C	ASP	X	130	54.429	51.887	34.967	0.00	0.00
ATOM	2007	O	ASP	X	130	54.913	51.032	34.203	0.00	0.00
ATOM	2008	N	GLY	X	131	53.414	52.733	34.650	0.00	0.00
ATOM	2009	H	GLY	X	131	53.050	53.456	35.255	0.00	0.00
ATOM	2010	CA	GLY	X	131	52.686	52.728	33.355	0.00	0.00
ATOM	2011	HA2	GLY	X	131	52.401	51.668	33.097	0.00	0.00
ATOM	2012	HA3	GLY	X	131	51.875	53.299	33.486	0.00	0.00
ATOM	2013	C	GLY	X	131	53.411	53.391	32.097	0.00	0.00
ATOM	2014	O	GLY	X	131	52.723	53.468	31.089	0.00	0.00
ATOM	2015	N	ARG	X	132	54.653	53.825	32.260	0.00	0.00
ATOM	2016	H	ARG	X	132	55.047	53.871	33.189	0.00	0.00
ATOM	2017	CA	ARG	X	132	55.311	54.631	31.174	0.00	0.00
ATOM	2018	HA	ARG	X	132	54.697	55.522	31.043	0.00	0.00
ATOM	2019	CB	ARG	X	132	56.716	55.042	31.664	0.00	0.00
ATOM	2020	HB2	ARG	X	132	57.098	55.735	30.914	0.00	0.00
ATOM	2021	HB3	ARG	X	132	56.515	55.687	32.520	0.00	0.00
ATOM	2022	CG	ARG	X	132	57.838	54.060	31.925	0.00	0.00
ATOM	2023	HG2	ARG	X	132	57.437	53.326	32.624	0.00	0.00
ATOM	2024	HG3	ARG	X	132	57.981	53.508	30.996	0.00	0.00
ATOM	2025	CD	ARG	X	132	59.044	54.843	32.551	0.00	0.00
ATOM	2026	HD2	ARG	X	132	59.927	54.204	32.566	0.00	0.00
ATOM	2027	HD3	ARG	X	132	59.268	55.657	31.862	0.00	0.00
ATOM	2028	NE	ARG	X	132	58.777	55.253	33.927	0.00	0.00
ATOM	2029	HE	ARG	X	132	57.827	55.130	34.245	0.00	0.00
ATOM	2030	CZ	ARG	X	132	59.725	55.584	34.765	0.00	0.00
ATOM	2031	NH1	ARG	X	132	60.953	55.754	34.459	0.00	0.00
ATOM	2032	HH11	ARG	X	132	61.322	55.563	33.539	0.00	0.00
ATOM	2033	HH12	ARG	X	132	61.610	56.065	35.160	0.00	0.00
ATOM	2034	NH2	ARG	X	132	59.401	55.791	36.069	0.00	0.00
ATOM	2035	HH21	ARG	X	132	58.428	55.624	36.283	0.00	0.00
ATOM	2036	HH22	ARG	X	132	59.996	56.293	36.713	0.00	0.00
ATOM	2037	C	ARG	X	132	55.370	53.827	29.900	0.00	0.00
ATOM	2038	O	ARG	X	132	55.201	54.342	28.834	0.00	0.00
ATOM	2039	N	PHE	X	133	55.563	52.525	29.950	0.00	0.00
ATOM	2040	H	PHE	X	133	55.533	52.048	30.840	0.00	0.00
ATOM	2041	CA	PHE	X	133	55.851	51.672	28.756	0.00	0.00
ATOM	2042	HA	PHE	X	133	56.393	52.310	28.057	0.00	0.00
ATOM	2043	CB	PHE	X	133	56.753	50.492	29.178	0.00	0.00
ATOM	2044	HB2	PHE	X	133	56.200	49.777	29.787	0.00	0.00
ATOM	2045	HB3	PHE	X	133	57.105	49.913	28.324	0.00	0.00
ATOM	2046	CG	PHE	X	133	58.097	50.838	29.869	0.00	0.00
ATOM	2047	CD1	PHE	X	133	58.365	50.458	31.249	0.00	0.00
ATOM	2048	HD1	PHE	X	133	57.579	49.901	31.735	0.00	0.00
ATOM	2049	CE1	PHE	X	133	59.506	50.887	31.909	0.00	0.00
ATOM	2050	HE1	PHE	X	133	59.668	50.624	32.944	0.00	0.00
ATOM	2051	CZ	PHE	X	133	60.467	51.631	31.181	0.00	0.00
ATOM	2052	HZ	PHE	X	133	61.305	52.054	31.715	0.00	0.00
ATOM	2053	CE2	PHE	X	133	60.204	52.096	29.859	0.00	0.00
ATOM	2054	HE2	PHE	X	133	60.867	52.674	29.232	0.00	0.00
ATOM	2055	CD2	PHE	X	133	59.071	51.592	29.158	0.00	0.00
ATOM	2056	HD2	PHE	X	133	58.939	51.782	28.104	0.00	0.00
ATOM	2057	C	PHE	X	133	54.653	51.294	27.937	0.00	0.00
ATOM	2058	O	PHE	X	133	54.681	51.251	26.715	0.00	0.00
ATOM	2059	N	LEU	X	134	53.541	51.001	28.648	0.00	0.00
ATOM	2060	H	LEU	X	134	53.531	51.143	29.648	0.00	0.00
ATOM	2061	CA	LEU	X	134	52.215	50.732	28.007	0.00	0.00
ATOM	2062	HA	LEU	X	134	52.390	50.043	27.181	0.00	0.00
ATOM	2063	CB	LEU	X	134	51.298	50.159	29.121	0.00	0.00
ATOM	2064	HB2	LEU	X	134	51.835	49.350	29.616	0.00	0.00
ATOM	2065	HB3	LEU	X	134	50.936	51.016	29.689	0.00	0.00
ATOM	2066	CG	LEU	X	134	50.024	49.533	28.526	0.00	0.00
ATOM	2067	HG	LEU	X	134	49.438	50.304	28.027	0.00	0.00
ATOM	2068	CD1	LEU	X	134	50.370	48.482	27.377	0.00	0.00
ATOM	2069	HD11	LEU	X	134	51.021	47.698	27.766	0.00	0.00
ATOM	2070	HD12	LEU	X	134	49.393	48.089	27.095	0.00	0.00
ATOM	2071	HD13	LEU	X	134	50.826	49.002	26.535	0.00	0.00

ATOM	2072	CD2	LEU	X	134	49.069	48.929	29.569	0.00	0.00
ATOM	2073	HD21	LEU	X	134	48.214	48.393	29.157	0.00	0.00
ATOM	2074	HD22	LEU	X	134	49.647	48.175	30.103	0.00	0.00
ATOM	2075	HD23	LEU	X	134	48.862	49.620	30.387	0.00	0.00
ATOM	2076	C	LEU	X	134	51.620	51.972	27.266	0.00	0.00
ATOM	2077	O	LEU	X	134	51.251	51.785	26.120	0.00	0.00
ATOM	2078	N	VAL	X	135	51.595	53.140	27.998	0.00	0.00
ATOM	2079	H	VAL	X	135	51.877	53.077	28.965	0.00	0.00
ATOM	2080	CA	VAL	X	135	51.124	54.408	27.414	0.00	0.00
ATOM	2081	HA	VAL	X	135	50.078	54.360	27.110	0.00	0.00
ATOM	2082	CB	VAL	X	135	51.240	55.532	28.505	0.00	0.00
ATOM	2083	HB	VAL	X	135	52.178	55.504	29.060	0.00	0.00
ATOM	2084	CG1	VAL	X	135	50.985	56.985	27.973	0.00	0.00
ATOM	2085	HG11	VAL	X	135	50.196	56.911	27.225	0.00	0.00
ATOM	2086	HG12	VAL	X	135	50.590	57.661	28.732	0.00	0.00
ATOM	2087	HG13	VAL	X	135	51.940	57.318	27.566	0.00	0.00
ATOM	2088	CG2	VAL	X	135	50.174	55.338	29.612	0.00	0.00
ATOM	2089	HG21	VAL	X	135	50.248	55.993	30.480	0.00	0.00
ATOM	2090	HG22	VAL	X	135	49.211	55.588	29.167	0.00	0.00
ATOM	2091	HG23	VAL	X	135	50.211	54.274	29.847	0.00	0.00
ATOM	2092	C	VAL	X	135	51.997	54.841	26.234	0.00	0.00
ATOM	2093	O	VAL	X	135	51.483	55.417	25.292	0.00	0.00
ATOM	2094	N	GLN	X	136	53.280	54.490	26.262	0.00	0.00
ATOM	2095	H	GLN	X	136	53.621	54.085	27.122	0.00	0.00
ATOM	2096	CA	GLN	X	136	54.193	54.812	25.128	0.00	0.00
ATOM	2097	HA	GLN	X	136	53.996	55.781	24.669	0.00	0.00
ATOM	2098	CB	GLN	X	136	55.620	54.748	25.618	0.00	0.00
ATOM	2099	HB2	GLN	X	136	55.762	55.396	26.483	0.00	0.00
ATOM	2100	HB3	GLN	X	136	55.827	53.692	25.795	0.00	0.00
ATOM	2101	CG	GLN	X	136	56.716	55.259	24.626	0.00	0.00
ATOM	2102	HG2	GLN	X	136	56.223	55.710	23.765	0.00	0.00
ATOM	2103	HG3	GLN	X	136	57.402	55.999	25.038	0.00	0.00
ATOM	2104	CD	GLN	X	136	57.541	54.101	24.113	0.00	0.00
ATOM	2105	OE1	GLN	X	136	58.612	53.770	24.591	0.00	0.00
ATOM	2106	NE2	GLN	X	136	57.031	53.246	23.195	0.00	0.00
ATOM	2107	HE21	GLN	X	136	57.650	52.489	22.943	0.00	0.00
ATOM	2108	HE22	GLN	X	136	56.069	53.321	22.899	0.00	0.00
ATOM	2109	C	GLN	X	136	53.954	53.916	23.877	0.00	0.00
ATOM	2110	O	GLN	X	136	53.732	54.439	22.735	0.00	0.00
ATOM	2111	N	ALA	X	137	54.144	52.601	23.928	0.00	0.00
ATOM	2112	H	ALA	X	137	54.360	52.125	24.792	0.00	0.00
ATOM	2113	CA	ALA	X	137	53.898	51.699	22.777	0.00	0.00
ATOM	2114	HA	ALA	X	137	54.582	51.988	21.979	0.00	0.00
ATOM	2115	CB	ALA	X	137	54.168	50.218	23.136	0.00	0.00
ATOM	2116	HB1	ALA	X	137	55.220	50.214	23.424	0.00	0.00
ATOM	2117	HB2	ALA	X	137	53.560	49.798	23.937	0.00	0.00
ATOM	2118	HB3	ALA	X	137	53.918	49.660	22.234	0.00	0.00
ATOM	2119	C	ALA	X	137	52.471	51.701	22.198	0.00	0.00
ATOM	2120	O	ALA	X	137	52.274	51.588	21.015	0.00	0.00
ATOM	2121	N	GLU	X	138	51.410	51.790	23.079	0.00	0.00
ATOM	2122	H	GLU	X	138	51.727	51.996	24.016	0.00	0.00
ATOM	2123	CA	GLU	X	138	49.955	51.586	22.778	0.00	0.00
ATOM	2124	HA	GLU	X	138	49.957	51.714	21.695	0.00	0.00
ATOM	2125	CB	GLU	X	138	49.541	50.240	23.280	0.00	0.00
ATOM	2126	HB2	GLU	X	138	49.452	50.207	24.366	0.00	0.00
ATOM	2127	HB3	GLU	X	138	48.540	50.002	22.920	0.00	0.00
ATOM	2128	CG	GLU	X	138	50.370	49.030	22.806	0.00	0.00
ATOM	2129	HG2	GLU	X	138	51.402	48.989	23.156	0.00	0.00
ATOM	2130	HG3	GLU	X	138	49.924	48.141	23.251	0.00	0.00
ATOM	2131	CD	GLU	X	138	50.362	48.807	21.326	0.00	0.00
ATOM	2132	OE1	GLU	X	138	49.451	49.091	20.558	0.00	0.00
ATOM	2133	OE2	GLU	X	138	51.333	48.181	20.956	0.00	0.00
ATOM	2134	C	GLU	X	138	48.942	52.673	23.258	0.00	0.00
ATOM	2135	O	GLU	X	138	47.761	52.606	22.855	0.00	0.00
ATOM	2136	N	ARG	X	139	49.288	53.770	23.899	0.00	0.00
ATOM	2137	H	ARG	X	139	50.291	53.844	23.994	0.00	0.00
ATOM	2138	CA	ARG	X	139	48.491	55.029	24.043	0.00	0.00
ATOM	2139	HA	ARG	X	139	49.057	55.573	24.799	0.00	0.00
ATOM	2140	CB	ARG	X	139	48.409	55.720	22.656	0.00	0.00
ATOM	2141	HB2	ARG	X	139	49.457	55.884	22.403	0.00	0.00

ATOM	2142	HB3	ARG	X	139	47.898	54.960	22.067	0.00	0.00
ATOM	2143	CG	ARG	X	139	47.582	56.959	22.614	0.00	0.00
ATOM	2144	HG2	ARG	X	139	46.519	56.723	22.648	0.00	0.00
ATOM	2145	HG3	ARG	X	139	47.897	57.613	23.428	0.00	0.00
ATOM	2146	CD	ARG	X	139	47.903	57.738	21.279	0.00	0.00
ATOM	2147	HD2	ARG	X	139	48.274	57.043	20.526	0.00	0.00
ATOM	2148	HD3	ARG	X	139	46.957	58.138	20.915	0.00	0.00
ATOM	2149	NE	ARG	X	139	49.040	58.671	21.487	0.00	0.00
ATOM	2150	HE	ARG	X	139	49.951	58.240	21.420	0.00	0.00
ATOM	2151	CZ	ARG	X	139	48.967	60.027	21.426	0.00	0.00
ATOM	2152	NH1	ARG	X	139	47.809	60.678	21.453	0.00	0.00
ATOM	2153	HH11	ARG	X	139	46.968	60.119	21.471	0.00	0.00
ATOM	2154	HH12	ARG	X	139	47.851	61.687	21.472	0.00	0.00
ATOM	2155	NH2	ARG	X	139	50.124	60.673	21.339	0.00	0.00
ATOM	2156	HH21	ARG	X	139	50.892	60.050	21.136	0.00	0.00
ATOM	2157	HH22	ARG	X	139	50.189	61.681	21.371	0.00	0.00
ATOM	2158	C	ARG	X	139	47.189	54.869	24.818	0.00	0.00
ATOM	2159	O	ARG	X	139	46.425	55.739	25.071	0.00	0.00
ATOM	2160	N	THR	X	140	46.852	53.596	25.101	0.00	0.00
ATOM	2161	H	THR	X	140	47.453	52.881	24.718	0.00	0.00
ATOM	2162	CA	THR	X	140	45.862	53.236	26.153	0.00	0.00
ATOM	2163	HA	THR	X	140	44.929	53.788	26.030	0.00	0.00
ATOM	2164	CB	THR	X	140	45.648	51.710	26.130	0.00	0.00
ATOM	2165	HB	THR	X	140	45.015	51.362	26.946	0.00	0.00
ATOM	2166	CG2	THR	X	140	45.044	51.307	24.851	0.00	0.00
ATOM	2167	HG21	THR	X	140	44.224	51.992	24.633	0.00	0.00
ATOM	2168	HG22	THR	X	140	45.829	51.287	24.095	0.00	0.00
ATOM	2169	HG23	THR	X	140	44.620	50.315	25.005	0.00	0.00
ATOM	2170	OG1	THR	X	140	46.982	51.140	26.233	0.00	0.00
ATOM	2171	HG1	THR	X	140	47.374	51.752	26.860	0.00	0.00
ATOM	2172	C	THR	X	140	46.467	53.732	27.458	0.00	0.00
ATOM	2173	O	THR	X	140	47.657	53.544	27.706	0.00	0.00
ATOM	2174	N	VAL	X	141	45.661	54.422	28.313	0.00	0.00
ATOM	2175	H	VAL	X	141	44.662	54.486	28.183	0.00	0.00
ATOM	2176	CA	VAL	X	141	46.152	55.219	29.405	0.00	0.00
ATOM	2177	HA	VAL	X	141	47.173	55.469	29.117	0.00	0.00
ATOM	2178	CB	VAL	X	141	45.286	56.450	29.621	0.00	0.00
ATOM	2179	HB	VAL	X	141	44.396	56.265	29.019	0.00	0.00
ATOM	2180	CG1	VAL	X	141	44.827	56.850	31.035	0.00	0.00
ATOM	2181	HG11	VAL	X	141	44.011	57.571	31.074	0.00	0.00
ATOM	2182	HG12	VAL	X	141	44.603	55.935	31.583	0.00	0.00
ATOM	2183	HG13	VAL	X	141	45.682	57.191	31.618	0.00	0.00
ATOM	2184	CG2	VAL	X	141	46.031	57.658	29.022	0.00	0.00
ATOM	2185	HG21	VAL	X	141	45.914	57.592	27.940	0.00	0.00
ATOM	2186	HG22	VAL	X	141	45.598	58.609	29.331	0.00	0.00
ATOM	2187	HG23	VAL	X	141	47.099	57.627	29.238	0.00	0.00
ATOM	2188	C	VAL	X	141	46.273	54.382	30.661	0.00	0.00
ATOM	2189	O	VAL	X	141	45.438	53.452	30.843	0.00	0.00
ATOM	2190	N	LEU	X	142	47.283	54.582	31.529	0.00	0.00
ATOM	2191	H	LEU	X	142	47.953	55.329	31.414	0.00	0.00
ATOM	2192	CA	LEU	X	142	47.517	53.793	32.739	0.00	0.00
ATOM	2193	HA	LEU	X	142	46.853	52.930	32.706	0.00	0.00
ATOM	2194	CB	LEU	X	142	48.945	53.266	32.765	0.00	0.00
ATOM	2195	HB2	LEU	X	142	49.138	52.865	31.770	0.00	0.00
ATOM	2196	HB3	LEU	X	142	49.714	54.035	32.853	0.00	0.00
ATOM	2197	CG	LEU	X	142	49.296	51.975	33.655	0.00	0.00
ATOM	2198	HG	LEU	X	142	50.330	51.692	33.457	0.00	0.00
ATOM	2199	CD1	LEU	X	142	49.297	52.324	35.130	0.00	0.00
ATOM	2200	HD11	LEU	X	142	48.347	52.804	35.365	0.00	0.00
ATOM	2201	HD12	LEU	X	142	49.433	51.359	35.618	0.00	0.00
ATOM	2202	HD13	LEU	X	142	50.131	52.958	35.430	0.00	0.00
ATOM	2203	CD2	LEU	X	142	48.337	50.795	33.431	0.00	0.00
ATOM	2204	HD21	LEU	X	142	48.811	49.925	33.885	0.00	0.00
ATOM	2205	HD22	LEU	X	142	47.427	51.061	33.969	0.00	0.00
ATOM	2206	HD23	LEU	X	142	48.069	50.718	32.378	0.00	0.00
ATOM	2207	C	LEU	X	142	47.239	54.724	33.950	0.00	0.00
ATOM	2208	O	LEU	X	142	47.834	55.804	34.112	0.00	0.00
ATOM	2209	N	VAL	X	143	46.326	54.343	34.792	0.00	0.00
ATOM	2210	H	VAL	X	143	45.798	53.529	34.511	0.00	0.00
ATOM	2211	CA	VAL	X	143	46.027	54.919	36.208	0.00	0.00

ATOM	2212	HA	VAL	X	143	46.725	55.745	36.344	0.00	0.00
ATOM	2213	CB	VAL	X	143	44.516	55.415	36.317	0.00	0.00
ATOM	2214	HB	VAL	X	143	43.867	54.564	36.112	0.00	0.00
ATOM	2215	CG1	VAL	X	143	44.067	55.838	37.756	0.00	0.00
ATOM	2216	HG11	VAL	X	143	44.405	56.845	38.001	0.00	0.00
ATOM	2217	HG12	VAL	X	143	42.981	55.912	37.817	0.00	0.00
ATOM	2218	HG13	VAL	X	143	44.334	55.042	38.451	0.00	0.00
ATOM	2219	CG2	VAL	X	143	44.207	56.428	35.266	0.00	0.00
ATOM	2220	HG21	VAL	X	143	44.406	56.011	34.279	0.00	0.00
ATOM	2221	HG22	VAL	X	143	43.123	56.538	35.241	0.00	0.00
ATOM	2222	HG23	VAL	X	143	44.727	57.354	35.516	0.00	0.00
ATOM	2223	C	VAL	X	143	46.441	53.830	37.241	0.00	0.00
ATOM	2224	O	VAL	X	143	46.540	52.663	36.888	0.00	0.00
ATOM	2225	N	SER	X	144	46.693	54.137	38.503	0.00	0.00
ATOM	2226	H	SER	X	144	46.612	55.133	38.650	0.00	0.00
ATOM	2227	CA	SER	X	144	46.900	53.272	39.651	0.00	0.00
ATOM	2228	HA	SER	X	144	46.278	52.388	39.515	0.00	0.00
ATOM	2229	CB	SER	X	144	48.262	52.672	39.718	0.00	0.00
ATOM	2230	HB2	SER	X	144	48.171	51.840	40.416	0.00	0.00
ATOM	2231	HB3	SER	X	144	48.589	52.254	38.766	0.00	0.00
ATOM	2232	OG	SER	X	144	49.301	53.530	40.147	0.00	0.00
ATOM	2233	HG	SER	X	144	50.105	53.213	39.727	0.00	0.00
ATOM	2234	C	SER	X	144	46.368	53.889	40.870	0.00	0.00
ATOM	2235	O	SER	X	144	46.284	55.118	40.956	0.00	0.00
ATOM	2236	N	MET	X	145	45.861	53.089	41.827	0.00	0.00
ATOM	2237	H	MET	X	145	45.722	52.127	41.556	0.00	0.00
ATOM	2238	CA	MET	X	145	45.337	53.589	43.106	0.00	0.00
ATOM	2239	HA	MET	X	145	45.496	54.668	43.111	0.00	0.00
ATOM	2240	CB	MET	X	145	43.805	53.460	43.176	0.00	0.00
ATOM	2241	HB2	MET	X	145	43.414	53.736	44.155	0.00	0.00
ATOM	2242	HB3	MET	X	145	43.397	54.193	42.480	0.00	0.00
ATOM	2243	CG	MET	X	145	43.410	51.977	42.788	0.00	0.00
ATOM	2244	HG2	MET	X	145	43.479	51.782	41.718	0.00	0.00
ATOM	2245	HG3	MET	X	145	44.099	51.268	43.248	0.00	0.00
ATOM	2246	SD	MET	X	145	41.733	51.444	43.320	0.00	0.00
ATOM	2247	CE	MET	X	145	40.783	52.274	42.051	0.00	0.00
ATOM	2248	HE1	MET	X	145	41.107	53.310	41.947	0.00	0.00
ATOM	2249	HE2	MET	X	145	40.911	51.721	41.121	0.00	0.00
ATOM	2250	HE3	MET	X	145	39.729	52.172	42.308	0.00	0.00
ATOM	2251	C	MET	X	145	45.977	52.928	44.336	0.00	0.00
ATOM	2252	O	MET	X	145	46.479	51.833	44.294	0.00	0.00
ATOM	2253	N	ASN	X	146	45.726	53.567	45.533	0.00	0.00
ATOM	2254	H	ASN	X	146	45.297	54.480	45.470	0.00	0.00
ATOM	2255	CA	ASN	X	146	46.029	52.994	46.801	0.00	0.00
ATOM	2256	HA	ASN	X	146	46.348	51.959	46.674	0.00	0.00
ATOM	2257	CB	ASN	X	146	47.298	53.743	47.281	0.00	0.00
ATOM	2258	HB2	ASN	X	146	47.835	54.108	46.405	0.00	0.00
ATOM	2259	HB3	ASN	X	146	47.047	54.584	47.927	0.00	0.00
ATOM	2260	CG	ASN	X	146	48.164	52.753	47.996	0.00	0.00
ATOM	2261	OD1	ASN	X	146	48.962	52.027	47.345	0.00	0.00
ATOM	2262	ND2	ASN	X	146	48.019	52.645	49.294	0.00	0.00
ATOM	2263	HD21	ASN	X	146	48.565	51.924	49.744	0.00	0.00
ATOM	2264	HD22	ASN	X	146	47.467	53.295	49.836	0.00	0.00
ATOM	2265	C	ASN	X	146	44.742	53.061	47.689	0.00	0.00
ATOM	2266	O	ASN	X	146	43.796	53.790	47.507	0.00	0.00
ATOM	2267	N	TYR	X	147	44.725	52.187	48.745	0.00	0.00
ATOM	2268	H	TYR	X	147	45.577	51.653	48.847	0.00	0.00
ATOM	2269	CA	TYR	X	147	43.576	51.792	49.579	0.00	0.00
ATOM	2270	HA	TYR	X	147	43.033	52.645	49.986	0.00	0.00
ATOM	2271	CB	TYR	X	147	42.619	51.002	48.576	0.00	0.00
ATOM	2272	HB2	TYR	X	147	41.997	50.391	49.230	0.00	0.00
ATOM	2273	HB3	TYR	X	147	41.984	51.651	47.974	0.00	0.00
ATOM	2274	CG	TYR	X	147	43.305	49.959	47.766	0.00	0.00
ATOM	2275	CD1	TYR	X	147	43.604	50.163	46.413	0.00	0.00
ATOM	2276	HD1	TYR	X	147	43.393	51.095	45.911	0.00	0.00
ATOM	2277	CE1	TYR	X	147	44.315	49.182	45.735	0.00	0.00
ATOM	2278	HE1	TYR	X	147	44.527	49.204	44.677	0.00	0.00
ATOM	2279	CZ	TYR	X	147	44.484	47.867	46.381	0.00	0.00
ATOM	2280	OH	TYR	X	147	44.781	46.856	45.558	0.00	0.00
ATOM	2281	HH	TYR	X	147	44.834	46.058	46.089	0.00	0.00

ATOM	2282	CE2	TYR	X	147	44.178	47.711	47.742	0.00	0.00
ATOM	2283	HE2	TYR	X	147	44.369	46.691	48.044	0.00	0.00
ATOM	2284	CD2	TYR	X	147	43.577	48.681	48.444	0.00	0.00
ATOM	2285	HD2	TYR	X	147	43.308	48.558	49.482	0.00	0.00
ATOM	2286	C	TYR	X	147	44.016	51.006	50.782	0.00	0.00
ATOM	2287	O	TYR	X	147	45.041	50.384	50.876	0.00	0.00
ATOM	2288	N	ARG	X	148	43.204	50.998	51.875	0.00	0.00
ATOM	2289	H	ARG	X	148	42.341	51.523	51.869	0.00	0.00
ATOM	2290	CA	ARG	X	148	43.497	50.264	53.157	0.00	0.00
ATOM	2291	HA	ARG	X	148	44.501	50.621	53.388	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.503	50.605	54.334	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.476	50.384	54.046	0.00	0.00
ATOM	2294	HB3	ARG	X	148	42.863	50.091	55.226	0.00	0.00
ATOM	2295	CG	ARG	X	148	42.634	52.080	54.707	0.00	0.00
ATOM	2296	HG2	ARG	X	148	43.562	52.252	55.251	0.00	0.00
ATOM	2297	HG3	ARG	X	148	42.604	52.712	53.820	0.00	0.00
ATOM	2298	CD	ARG	X	148	41.600	52.551	55.755	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.557	51.688	56.419	0.00	0.00
ATOM	2300	HD3	ARG	X	148	42.011	53.378	56.334	0.00	0.00
ATOM	2301	NE	ARG	X	148	40.402	52.939	54.983	0.00	0.00
ATOM	2302	HE	ARG	X	148	40.484	52.848	53.980	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.286	53.435	55.510	0.00	0.00
ATOM	2304	NH1	ARG	X	148	39.078	53.624	56.802	0.00	0.00
ATOM	2305	HH11	ARG	X	148	39.914	53.749	57.354	0.00	0.00
ATOM	2306	HH12	ARG	X	148	38.154	53.774	57.182	0.00	0.00
ATOM	2307	NH2	ARG	X	148	38.266	53.737	54.745	0.00	0.00
ATOM	2308	HH21	ARG	X	148	38.416	53.724	53.746	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.331	53.845	55.111	0.00	0.00
ATOM	2310	C	ARG	X	148	43.575	48.768	52.963	0.00	0.00
ATOM	2311	O	ARG	X	148	42.737	48.093	52.387	0.00	0.00
ATOM	2312	N	VAL	X	149	44.495	48.194	53.716	0.00	0.00
ATOM	2313	H	VAL	X	149	45.144	48.750	54.254	0.00	0.00
ATOM	2314	CA	VAL	X	149	44.867	46.762	53.638	0.00	0.00
ATOM	2315	HA	VAL	X	149	44.083	46.256	53.073	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.145	46.486	52.832	0.00	0.00
ATOM	2317	HB	VAL	X	149	46.541	45.532	53.180	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.834	46.153	51.351	0.00	0.00
ATOM	2319	HG11	VAL	X	149	45.342	46.953	50.799	0.00	0.00
ATOM	2320	HG12	VAL	X	149	46.767	45.791	50.919	0.00	0.00
ATOM	2321	HG13	VAL	X	149	45.343	45.180	51.301	0.00	0.00
ATOM	2322	CG2	VAL	X	149	47.238	47.552	53.116	0.00	0.00
ATOM	2323	HG21	VAL	X	149	46.961	48.542	52.754	0.00	0.00
ATOM	2324	HG22	VAL	X	149	47.503	47.679	54.165	0.00	0.00
ATOM	2325	HG23	VAL	X	149	48.176	47.350	52.599	0.00	0.00
ATOM	2326	C	VAL	X	149	45.003	46.279	55.087	0.00	0.00
ATOM	2327	O	VAL	X	149	45.279	47.115	55.955	0.00	0.00
ATOM	2328	N	GLY	X	150	44.797	44.997	55.341	0.00	0.00
ATOM	2329	H	GLY	X	150	44.636	44.442	54.512	0.00	0.00
ATOM	2330	CA	GLY	X	150	44.722	44.407	56.683	0.00	0.00
ATOM	2331	HA2	GLY	X	150	44.643	43.321	56.638	0.00	0.00
ATOM	2332	HA3	GLY	X	150	45.620	44.672	57.209	0.00	0.00
ATOM	2333	C	GLY	X	150	43.571	44.833	57.520	0.00	0.00
ATOM	2334	O	GLY	X	150	42.550	45.283	57.053	0.00	0.00
ATOM	2335	N	ALA	X	151	43.724	44.627	58.832	0.00	0.00
ATOM	2336	H	ALA	X	151	44.576	44.175	59.132	0.00	0.00
ATOM	2337	CA	ALA	X	151	42.765	45.033	59.881	0.00	0.00
ATOM	2338	HA	ALA	X	151	41.969	44.293	59.963	0.00	0.00
ATOM	2339	CB	ALA	X	151	43.383	45.083	61.308	0.00	0.00
ATOM	2340	HB1	ALA	X	151	42.625	45.314	62.056	0.00	0.00
ATOM	2341	HB2	ALA	X	151	43.857	44.126	61.529	0.00	0.00
ATOM	2342	HB3	ALA	X	151	44.089	45.909	61.394	0.00	0.00
ATOM	2343	C	ALA	X	151	42.160	46.421	59.696	0.00	0.00
ATOM	2344	O	ALA	X	151	40.958	46.554	59.792	0.00	0.00
ATOM	2345	N	PHE	X	152	42.972	47.461	59.474	0.00	0.00
ATOM	2346	H	PHE	X	152	43.927	47.135	59.474	0.00	0.00
ATOM	2347	CA	PHE	X	152	42.605	48.895	59.253	0.00	0.00
ATOM	2348	HA	PHE	X	152	42.393	49.251	60.262	0.00	0.00
ATOM	2349	CB	PHE	X	152	43.874	49.548	58.718	0.00	0.00
ATOM	2350	HB2	PHE	X	152	44.193	48.979	57.845	0.00	0.00
ATOM	2351	HB3	PHE	X	152	43.739	50.595	58.445	0.00	0.00

ATOM	2352	CG	PHE	X	152	45.039	49.599	59.667	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.966	48.520	59.789	0.00	0.00
ATOM	2354	HD1	PHE	X	152	45.764	47.674	59.149	0.00	0.00
ATOM	2355	CE1	PHE	X	152	46.915	48.534	60.828	0.00	0.00
ATOM	2356	HE1	PHE	X	152	47.505	47.645	60.993	0.00	0.00
ATOM	2357	CZ	PHE	X	152	47.099	49.675	61.546	0.00	0.00
ATOM	2358	HZ	PHE	X	152	47.910	49.791	62.249	0.00	0.00
ATOM	2359	CE2	PHE	X	152	46.243	50.849	61.321	0.00	0.00
ATOM	2360	HE2	PHE	X	152	46.479	51.743	61.879	0.00	0.00
ATOM	2361	CD2	PHE	X	152	45.195	50.789	60.430	0.00	0.00
ATOM	2362	HD2	PHE	X	152	44.445	51.563	60.355	0.00	0.00
ATOM	2363	C	PHE	X	152	41.534	49.075	58.162	0.00	0.00
ATOM	2364	O	PHE	X	152	40.796	50.067	58.343	0.00	0.00
ATOM	2365	N	GLY	X	153	41.397	48.223	57.135	0.00	0.00
ATOM	2366	H	GLY	X	153	41.863	47.329	57.197	0.00	0.00
ATOM	2367	CA	GLY	X	153	40.495	48.257	56.036	0.00	0.00
ATOM	2368	HA2	GLY	X	153	39.946	49.240	55.916	0.00	0.00
ATOM	2369	HA3	GLY	X	153	41.085	48.174	55.071	0.00	0.00
ATOM	2370	C	GLY	X	153	39.407	47.147	55.968	0.00	0.00
ATOM	2371	O	GLY	X	153	38.561	47.181	55.080	0.00	0.00
ATOM	2372	N	PHE	X	154	39.424	46.157	56.841	0.00	0.00
ATOM	2373	H	PHE	X	154	40.110	46.123	57.582	0.00	0.00
ATOM	2374	CA	PHE	X	154	38.584	44.922	56.591	0.00	0.00
ATOM	2375	HA	PHE	X	154	37.736	45.064	55.921	0.00	0.00
ATOM	2376	CB	PHE	X	154	39.504	43.914	55.871	0.00	0.00
ATOM	2377	HB2	PHE	X	154	40.435	43.945	56.436	0.00	0.00
ATOM	2378	HB3	PHE	X	154	38.982	42.957	55.852	0.00	0.00
ATOM	2379	CG	PHE	X	154	39.820	44.351	54.426	0.00	0.00
ATOM	2380	CD1	PHE	X	154	41.110	44.624	53.993	0.00	0.00
ATOM	2381	HD1	PHE	X	154	41.927	44.402	54.664	0.00	0.00
ATOM	2382	CE1	PHE	X	154	41.427	45.130	52.731	0.00	0.00
ATOM	2383	HE1	PHE	X	154	42.438	45.226	52.365	0.00	0.00
ATOM	2384	CZ	PHE	X	154	40.389	45.246	51.820	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.551	45.513	50.786	0.00	0.00
ATOM	2386	CE2	PHE	X	154	39.118	44.855	52.106	0.00	0.00
ATOM	2387	HE2	PHE	X	154	38.358	45.006	51.354	0.00	0.00
ATOM	2388	CD2	PHE	X	154	38.832	44.397	53.392	0.00	0.00
ATOM	2389	HD2	PHE	X	154	37.842	44.315	53.816	0.00	0.00
ATOM	2390	C	PHE	X	154	37.929	44.387	57.868	0.00	0.00
ATOM	2391	O	PHE	X	154	37.287	43.274	57.835	0.00	0.00
ATOM	2392	N	LEU	X	155	38.052	44.933	59.057	0.00	0.00
ATOM	2393	H	LEU	X	155	38.504	45.835	59.084	0.00	0.00
ATOM	2394	CA	LEU	X	155	37.517	44.433	60.303	0.00	0.00
ATOM	2395	HA	LEU	X	155	37.522	43.344	60.264	0.00	0.00
ATOM	2396	CB	LEU	X	155	38.454	44.883	61.460	0.00	0.00
ATOM	2397	HB2	LEU	X	155	39.449	44.495	61.242	0.00	0.00
ATOM	2398	HB3	LEU	X	155	38.528	45.970	61.504	0.00	0.00
ATOM	2399	CG	LEU	X	155	38.199	44.469	62.898	0.00	0.00
ATOM	2400	HG	LEU	X	155	38.130	43.381	62.900	0.00	0.00
ATOM	2401	CD1	LEU	X	155	39.407	44.880	63.773	0.00	0.00
ATOM	2402	HD11	LEU	X	155	40.240	44.299	63.378	0.00	0.00
ATOM	2403	HD12	LEU	X	155	39.588	45.941	63.601	0.00	0.00
ATOM	2404	HD13	LEU	X	155	39.192	44.781	64.837	0.00	0.00
ATOM	2405	CD2	LEU	X	155	36.979	45.096	63.538	0.00	0.00
ATOM	2406	HD21	LEU	X	155	36.054	44.680	63.140	0.00	0.00
ATOM	2407	HD22	LEU	X	155	36.959	44.844	64.599	0.00	0.00
ATOM	2408	HD23	LEU	X	155	37.003	46.182	63.440	0.00	0.00
ATOM	2409	C	LEU	X	155	36.059	44.855	60.451	0.00	0.00
ATOM	2410	O	LEU	X	155	35.695	45.976	60.331	0.00	0.00
ATOM	2411	N	ALA	X	156	35.313	43.827	60.862	0.00	0.00
ATOM	2412	H	ALA	X	156	35.701	42.895	60.825	0.00	0.00
ATOM	2413	CA	ALA	X	156	33.911	43.925	61.191	0.00	0.00
ATOM	2414	HA	ALA	X	156	33.642	44.956	61.419	0.00	0.00
ATOM	2415	CB	ALA	X	156	33.024	43.473	60.032	0.00	0.00
ATOM	2416	HB1	ALA	X	156	32.028	43.256	60.418	0.00	0.00
ATOM	2417	HB2	ALA	X	156	32.994	44.234	59.252	0.00	0.00
ATOM	2418	HB3	ALA	X	156	33.435	42.499	59.766	0.00	0.00
ATOM	2419	C	ALA	X	156	33.570	43.111	62.425	0.00	0.00
ATOM	2420	O	ALA	X	156	34.052	42.024	62.644	0.00	0.00
ATOM	2421	N	LEU	X	157	32.544	43.580	63.129	0.00	0.00

ATOM	2422	H	LEU	X	157	32.283	44.554	63.058	0.00	0.00
ATOM	2423	CA	LEU	X	157	31.838	42.788	64.099	0.00	0.00
ATOM	2424	HA	LEU	X	157	32.249	41.779	64.138	0.00	0.00
ATOM	2425	CB	LEU	X	157	31.906	43.632	65.377	0.00	0.00
ATOM	2426	HB2	LEU	X	157	31.655	44.669	65.153	0.00	0.00
ATOM	2427	HB3	LEU	X	157	31.144	43.292	66.078	0.00	0.00
ATOM	2428	CG	LEU	X	157	33.223	43.680	66.156	0.00	0.00
ATOM	2429	HG	LEU	X	157	33.869	43.997	65.337	0.00	0.00
ATOM	2430	CD1	LEU	X	157	33.133	44.617	67.321	0.00	0.00
ATOM	2431	HD11	LEU	X	157	32.286	44.330	67.945	0.00	0.00
ATOM	2432	HD12	LEU	X	157	34.077	44.509	67.856	0.00	0.00
ATOM	2433	HD13	LEU	X	157	33.013	45.670	67.067	0.00	0.00
ATOM	2434	CD2	LEU	X	157	33.766	42.364	66.770	0.00	0.00
ATOM	2435	HD21	LEU	X	157	33.156	42.005	67.598	0.00	0.00
ATOM	2436	HD22	LEU	X	157	33.819	41.642	65.956	0.00	0.00
ATOM	2437	HD23	LEU	X	157	34.741	42.434	67.252	0.00	0.00
ATOM	2438	C	LEU	X	157	30.369	42.701	63.636	0.00	0.00
ATOM	2439	O	LEU	X	157	29.905	43.597	62.908	0.00	0.00
ATOM	2440	N	PRO	X	158	29.652	41.672	64.076	0.00	0.00
ATOM	2441	CD	PRO	X	158	30.158	40.778	65.181	0.00	0.00
ATOM	2442	HD2	PRO	X	158	30.514	41.364	66.028	0.00	0.00
ATOM	2443	HD3	PRO	X	158	31.041	40.265	64.801	0.00	0.00
ATOM	2444	CG	PRO	X	158	28.972	39.869	65.439	0.00	0.00
ATOM	2445	HG2	PRO	X	158	28.429	40.239	66.309	0.00	0.00
ATOM	2446	HG3	PRO	X	158	29.396	38.871	65.555	0.00	0.00
ATOM	2447	CB	PRO	X	158	27.970	40.005	64.290	0.00	0.00
ATOM	2448	HB2	PRO	X	158	26.938	39.884	64.618	0.00	0.00
ATOM	2449	HB3	PRO	X	158	28.222	39.191	63.611	0.00	0.00
ATOM	2450	CA	PRO	X	158	28.265	41.369	63.663	0.00	0.00
ATOM	2451	HA	PRO	X	158	28.178	41.201	62.589	0.00	0.00
ATOM	2452	C	PRO	X	158	27.295	42.425	64.081	0.00	0.00
ATOM	2453	O	PRO	X	158	27.281	42.692	65.261	0.00	0.00
ATOM	2454	N	GLY	X	159	26.561	43.025	63.126	0.00	0.00
ATOM	2455	H	GLY	X	159	26.698	42.753	62.163	0.00	0.00
ATOM	2456	CA	GLY	X	159	25.549	44.104	63.420	0.00	0.00
ATOM	2457	HA2	GLY	X	159	24.836	44.328	62.584	0.00	0.00
ATOM	2458	HA3	GLY	X	159	25.007	43.881	64.325	0.00	0.00
ATOM	2459	C	GLY	X	159	26.190	45.487	63.674	0.00	0.00
ATOM	2460	O	GLY	X	159	25.521	46.429	63.939	0.00	0.00
ATOM	2461	N	SER	X	160	27.475	45.540	63.552	0.00	0.00
ATOM	2462	H	SER	X	160	27.967	44.701	63.277	0.00	0.00
ATOM	2463	CA	SER	X	160	28.232	46.776	63.891	0.00	0.00
ATOM	2464	HA	SER	X	160	27.896	47.226	64.826	0.00	0.00
ATOM	2465	CB	SER	X	160	29.669	46.403	64.089	0.00	0.00
ATOM	2466	HB2	SER	X	160	29.758	45.467	64.642	0.00	0.00
ATOM	2467	HB3	SER	X	160	30.114	46.224	63.110	0.00	0.00
ATOM	2468	OG	SER	X	160	30.370	47.353	64.838	0.00	0.00
ATOM	2469	HG	SER	X	160	30.376	47.035	65.744	0.00	0.00
ATOM	2470	C	SER	X	160	28.265	47.899	62.775	0.00	0.00
ATOM	2471	O	SER	X	160	28.609	47.635	61.619	0.00	0.00
ATOM	2472	N	ARG	X	161	28.142	49.132	63.179	0.00	0.00
ATOM	2473	H	ARG	X	161	27.805	49.247	64.124	0.00	0.00
ATOM	2474	CA	ARG	X	161	28.520	50.277	62.408	0.00	0.00
ATOM	2475	HA	ARG	X	161	28.648	50.120	61.337	0.00	0.00
ATOM	2476	CB	ARG	X	161	27.498	51.428	62.696	0.00	0.00
ATOM	2477	HB2	ARG	X	161	27.685	51.851	63.683	0.00	0.00
ATOM	2478	HB3	ARG	X	161	27.907	52.193	62.037	0.00	0.00
ATOM	2479	CG	ARG	X	161	26.014	51.173	62.511	0.00	0.00
ATOM	2480	HG2	ARG	X	161	25.783	50.697	61.559	0.00	0.00
ATOM	2481	HG3	ARG	X	161	25.696	50.417	63.229	0.00	0.00
ATOM	2482	CD	ARG	X	161	25.232	52.488	62.717	0.00	0.00
ATOM	2483	HD2	ARG	X	161	25.420	53.152	61.873	0.00	0.00
ATOM	2484	HD3	ARG	X	161	24.176	52.227	62.780	0.00	0.00
ATOM	2485	NE	ARG	X	161	25.567	53.272	63.904	0.00	0.00
ATOM	2486	HE	ARG	X	161	26.344	52.978	64.478	0.00	0.00
ATOM	2487	CZ	ARG	X	161	24.924	54.389	64.342	0.00	0.00
ATOM	2488	NH1	ARG	X	161	23.829	54.818	63.735	0.00	0.00
ATOM	2489	HH11	ARG	X	161	23.613	54.397	62.842	0.00	0.00
ATOM	2490	HH12	ARG	X	161	23.162	55.456	64.145	0.00	0.00
ATOM	2491	NH2	ARG	X	161	25.406	55.110	65.356	0.00	0.00

ATOM	2492	HH21	ARG	X	161	26.168	54.675	65.856	0.00	0.00
ATOM	2493	HH22	ARG	X	161	24.912	55.795	65.910	0.00	0.00
ATOM	2494	C	ARG	X	161	29.926	50.778	62.956	0.00	0.00
ATOM	2495	O	ARG	X	161	30.585	51.473	62.182	0.00	0.00
ATOM	2496	N	GLU	X	162	30.292	50.474	64.251	0.00	0.00
ATOM	2497	H	GLU	X	162	29.540	50.158	64.848	0.00	0.00
ATOM	2498	CA	GLU	X	162	31.622	50.764	64.860	0.00	0.00
ATOM	2499	HA	GLU	X	162	31.777	51.843	64.849	0.00	0.00
ATOM	2500	CB	GLU	X	162	31.772	50.294	66.342	0.00	0.00
ATOM	2501	HB2	GLU	X	162	31.772	49.208	66.437	0.00	0.00
ATOM	2502	HB3	GLU	X	162	32.754	50.607	66.697	0.00	0.00
ATOM	2503	CG	GLU	X	162	30.895	50.916	67.397	0.00	0.00
ATOM	2504	HG2	GLU	X	162	31.438	51.094	68.326	0.00	0.00
ATOM	2505	HG3	GLU	X	162	30.571	51.884	67.014	0.00	0.00
ATOM	2506	CD	GLU	X	162	29.699	50.043	67.668	0.00	0.00
ATOM	2507	OE1	GLU	X	162	28.847	49.825	66.768	0.00	0.00
ATOM	2508	OE2	GLU	X	162	29.592	49.416	68.754	0.00	0.00
ATOM	2509	C	GLU	X	162	32.737	50.168	64.050	0.00	0.00
ATOM	2510	O	GLU	X	162	33.644	50.868	63.626	0.00	0.00
ATOM	2511	N	ALA	X	163	32.647	48.868	63.675	0.00	0.00
ATOM	2512	H	ALA	X	163	31.846	48.368	64.032	0.00	0.00
ATOM	2513	CA	ALA	X	163	33.433	48.150	62.651	0.00	0.00
ATOM	2514	HA	ALA	X	163	34.200	48.828	62.278	0.00	0.00
ATOM	2515	CB	ALA	X	163	34.096	46.981	63.280	0.00	0.00
ATOM	2516	HB1	ALA	X	163	33.320	46.275	63.574	0.00	0.00
ATOM	2517	HB2	ALA	X	163	34.856	46.672	62.561	0.00	0.00
ATOM	2518	HB3	ALA	X	163	34.588	47.295	64.200	0.00	0.00
ATOM	2519	C	ALA	X	163	32.524	47.735	61.434	0.00	0.00
ATOM	2520	O	ALA	X	163	31.962	46.653	61.420	0.00	0.00
ATOM	2521	N	PRO	X	164	32.451	48.654	60.384	0.00	0.00
ATOM	2522	CD	PRO	X	164	32.907	50.040	60.360	0.00	0.00
ATOM	2523	HD2	PRO	X	164	33.989	50.000	60.482	0.00	0.00
ATOM	2524	HD3	PRO	X	164	32.610	50.654	61.210	0.00	0.00
ATOM	2525	CG	PRO	X	164	32.338	50.604	59.058	0.00	0.00
ATOM	2526	HG2	PRO	X	164	33.131	50.417	58.334	0.00	0.00
ATOM	2527	HG3	PRO	X	164	32.156	51.679	59.063	0.00	0.00
ATOM	2528	CB	PRO	X	164	31.155	49.760	58.701	0.00	0.00
ATOM	2529	HB2	PRO	X	164	31.007	49.830	57.623	0.00	0.00
ATOM	2530	HB3	PRO	X	164	30.241	50.172	59.127	0.00	0.00
ATOM	2531	CA	PRO	X	164	31.580	48.406	59.292	0.00	0.00
ATOM	2532	HA	PRO	X	164	30.710	47.877	59.681	0.00	0.00
ATOM	2533	C	PRO	X	164	31.997	47.421	58.193	0.00	0.00
ATOM	2534	O	PRO	X	164	31.182	47.123	57.317	0.00	0.00
ATOM	2535	N	GLY	X	165	33.291	47.017	58.129	0.00	0.00
ATOM	2536	H	GLY	X	165	33.864	47.243	58.930	0.00	0.00
ATOM	2537	CA	GLY	X	165	33.716	45.893	57.249	0.00	0.00
ATOM	2538	HA2	GLY	X	165	34.323	45.160	57.830	0.00	0.00
ATOM	2539	HA3	GLY	X	165	32.845	45.354	56.845	0.00	0.00
ATOM	2540	C	GLY	X	165	34.653	46.329	56.134	0.00	0.00
ATOM	2541	O	GLY	X	165	35.747	46.781	56.418	0.00	0.00
ATOM	2542	N	ASN	X	166	34.226	46.151	54.881	0.00	0.00
ATOM	2543	H	ASN	X	166	33.273	45.884	54.678	0.00	0.00
ATOM	2544	CA	ASN	X	166	35.149	46.169	53.703	0.00	0.00
ATOM	2545	HA	ASN	X	166	36.089	45.687	53.969	0.00	0.00
ATOM	2546	CB	ASN	X	166	34.471	45.379	52.504	0.00	0.00
ATOM	2547	HB2	ASN	X	166	33.560	45.848	52.132	0.00	0.00
ATOM	2548	HB3	ASN	X	166	35.224	45.411	51.716	0.00	0.00
ATOM	2549	CG	ASN	X	166	34.188	43.963	52.735	0.00	0.00
ATOM	2550	OD1	ASN	X	166	34.852	43.355	53.556	0.00	0.00
ATOM	2551	ND2	ASN	X	166	33.324	43.243	52.043	0.00	0.00
ATOM	2552	HD21	ASN	X	166	33.084	42.275	52.205	0.00	0.00
ATOM	2553	HD22	ASN	X	166	32.625	43.691	51.467	0.00	0.00
ATOM	2554	C	ASN	X	166	35.652	47.628	53.334	0.00	0.00
ATOM	2555	O	ASN	X	166	35.601	47.921	52.133	0.00	0.00
ATOM	2556	N	VAL	X	167	35.993	48.564	54.226	0.00	0.00
ATOM	2557	H	VAL	X	167	36.172	48.278	55.178	0.00	0.00
ATOM	2558	CA	VAL	X	167	36.226	49.964	53.903	0.00	0.00
ATOM	2559	HA	VAL	X	167	35.376	50.315	53.318	0.00	0.00
ATOM	2560	CB	VAL	X	167	36.224	50.821	55.188	0.00	0.00
ATOM	2561	HB	VAL	X	167	36.312	51.865	54.888	0.00	0.00

ATOM	2562	CG1	VAL	X	167	34.791	50.663	55.756	0.00	0.00
ATOM	2563	HG11	VAL	X	167	34.902	51.108	56.745	0.00	0.00
ATOM	2564	HG12	VAL	X	167	34.125	51.269	55.143	0.00	0.00
ATOM	2565	HG13	VAL	X	167	34.632	49.603	55.952	0.00	0.00
ATOM	2566	CG2	VAL	X	167	37.498	50.386	56.043	0.00	0.00
ATOM	2567	HG21	VAL	X	167	37.592	50.905	56.996	0.00	0.00
ATOM	2568	HG22	VAL	X	167	37.385	49.312	56.190	0.00	0.00
ATOM	2569	HG23	VAL	X	167	38.434	50.573	55.517	0.00	0.00
ATOM	2570	C	VAL	X	167	37.404	50.112	52.949	0.00	0.00
ATOM	2571	O	VAL	X	167	37.594	51.053	52.229	0.00	0.00
ATOM	2572	N	GLY	X	168	38.292	49.079	52.906	0.00	0.00
ATOM	2573	H	GLY	X	168	38.247	48.309	53.558	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.331	48.957	51.804	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.783	49.944	51.742	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.068	48.161	52.157	0.00	0.00
ATOM	2577	C	GLY	X	168	38.885	48.605	50.402	0.00	0.00
ATOM	2578	O	GLY	X	168	39.514	48.948	49.397	0.00	0.00
ATOM	2579	N	LEU	X	169	37.613	48.061	50.220	0.00	0.00
ATOM	2580	H	LEU	X	169	37.008	47.850	51.000	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.039	48.111	48.902	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.781	48.014	48.109	0.00	0.00
ATOM	2583	CB	LEU	X	169	35.983	46.923	48.820	0.00	0.00
ATOM	2584	HB2	LEU	X	169	35.414	46.842	49.747	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.318	47.149	47.987	0.00	0.00
ATOM	2586	CG	LEU	X	169	36.623	45.513	48.509	0.00	0.00
ATOM	2587	HG	LEU	X	169	37.503	45.298	49.115	0.00	0.00
ATOM	2588	CD1	LEU	X	169	35.634	44.402	48.848	0.00	0.00
ATOM	2589	HD11	LEU	X	169	35.348	44.525	49.892	0.00	0.00
ATOM	2590	HD12	LEU	X	169	34.780	44.381	48.171	0.00	0.00
ATOM	2591	HD13	LEU	X	169	36.069	43.406	48.769	0.00	0.00
ATOM	2592	CD2	LEU	X	169	36.974	45.424	47.028	0.00	0.00
ATOM	2593	HD21	LEU	X	169	37.506	44.492	46.838	0.00	0.00
ATOM	2594	HD22	LEU	X	169	36.105	45.544	46.381	0.00	0.00
ATOM	2595	HD23	LEU	X	169	37.642	46.231	46.725	0.00	0.00
ATOM	2596	C	LEU	X	169	36.367	49.491	48.719	0.00	0.00
ATOM	2597	O	LEU	X	169	36.304	50.028	47.614	0.00	0.00
ATOM	2598	N	LEU	X	170	35.726	50.005	49.794	0.00	0.00
ATOM	2599	H	LEU	X	170	35.750	49.491	50.663	0.00	0.00
ATOM	2600	CA	LEU	X	170	35.182	51.368	49.721	0.00	0.00
ATOM	2601	HA	LEU	X	170	34.407	51.414	48.956	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.439	51.683	50.968	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.154	51.777	51.785	0.00	0.00
ATOM	2604	HB3	LEU	X	170	34.080	52.679	50.707	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.297	50.704	51.372	0.00	0.00
ATOM	2606	HG	LEU	X	170	33.689	49.892	51.984	0.00	0.00
ATOM	2607	CD1	LEU	X	170	32.360	51.563	52.188	0.00	0.00
ATOM	2608	HD11	LEU	X	170	32.057	52.502	51.724	0.00	0.00
ATOM	2609	HD12	LEU	X	170	31.369	51.121	52.287	0.00	0.00
ATOM	2610	HD13	LEU	X	170	32.715	51.598	53.218	0.00	0.00
ATOM	2611	CD2	LEU	X	170	32.401	50.318	50.175	0.00	0.00
ATOM	2612	HD21	LEU	X	170	32.873	49.587	49.518	0.00	0.00
ATOM	2613	HD22	LEU	X	170	31.517	49.860	50.618	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.244	51.162	49.504	0.00	0.00
ATOM	2615	C	LEU	X	170	36.176	52.406	49.292	0.00	0.00
ATOM	2616	O	LEU	X	170	35.823	53.254	48.464	0.00	0.00
ATOM	2617	N	ASP	X	171	37.420	52.425	49.805	0.00	0.00
ATOM	2618	H	ASP	X	171	37.635	51.791	50.562	0.00	0.00
ATOM	2619	CA	ASP	X	171	38.461	53.211	49.205	0.00	0.00
ATOM	2620	HA	ASP	X	171	38.251	54.247	49.472	0.00	0.00
ATOM	2621	CB	ASP	X	171	39.750	52.898	50.018	0.00	0.00
ATOM	2622	HB2	ASP	X	171	40.055	51.860	49.889	0.00	0.00
ATOM	2623	HB3	ASP	X	171	40.601	53.425	49.587	0.00	0.00
ATOM	2624	CG	ASP	X	171	39.842	53.180	51.550	0.00	0.00
ATOM	2625	OD1	ASP	X	171	38.922	53.833	52.028	0.00	0.00
ATOM	2626	OD2	ASP	X	171	40.820	52.790	52.257	0.00	0.00
ATOM	2627	C	ASP	X	171	38.766	53.061	47.758	0.00	0.00
ATOM	2628	O	ASP	X	171	38.989	54.028	47.026	0.00	0.00
ATOM	2629	N	GLN	X	172	38.669	51.841	47.223	0.00	0.00
ATOM	2630	H	GLN	X	172	38.296	51.123	47.828	0.00	0.00
ATOM	2631	CA	GLN	X	172	38.891	51.544	45.814	0.00	0.00

ATOM	2632	HA	GLN	X	172	39.746	52.060	45.378	0.00	0.00
ATOM	2633	CB	GLN	X	172	38.977	50.026	45.595	0.00	0.00
ATOM	2634	HB2	GLN	X	172	38.160	49.599	46.178	0.00	0.00
ATOM	2635	HB3	GLN	X	172	38.756	49.835	44.545	0.00	0.00
ATOM	2636	CG	GLN	X	172	40.297	49.483	46.105	0.00	0.00
ATOM	2637	HG2	GLN	X	172	41.105	49.913	45.513	0.00	0.00
ATOM	2638	HG3	GLN	X	172	40.411	49.708	47.165	0.00	0.00
ATOM	2639	CD	GLN	X	172	40.362	47.997	45.911	0.00	0.00
ATOM	2640	OE1	GLN	X	172	39.900	47.450	44.927	0.00	0.00
ATOM	2641	NE2	GLN	X	172	41.065	47.305	46.731	0.00	0.00
ATOM	2642	HE21	GLN	X	172	41.052	46.321	46.503	0.00	0.00
ATOM	2643	HE22	GLN	X	172	41.588	47.807	47.434	0.00	0.00
ATOM	2644	C	GLN	X	172	37.734	52.152	44.947	0.00	0.00
ATOM	2645	O	GLN	X	172	38.024	52.800	43.940	0.00	0.00
ATOM	2646	N	ARG	X	173	36.504	51.912	45.353	0.00	0.00
ATOM	2647	H	ARG	X	173	36.363	51.371	46.194	0.00	0.00
ATOM	2648	CA	ARG	X	173	35.278	52.513	44.755	0.00	0.00
ATOM	2649	HA	ARG	X	173	35.251	52.302	43.686	0.00	0.00
ATOM	2650	CB	ARG	X	173	34.024	51.967	45.401	0.00	0.00
ATOM	2651	HB2	ARG	X	173	34.090	50.894	45.580	0.00	0.00
ATOM	2652	HB3	ARG	X	173	33.969	52.496	46.352	0.00	0.00
ATOM	2653	CG	ARG	X	173	32.734	52.309	44.632	0.00	0.00
ATOM	2654	HG2	ARG	X	173	32.783	53.344	44.294	0.00	0.00
ATOM	2655	HG3	ARG	X	173	32.692	51.793	43.672	0.00	0.00
ATOM	2656	CD	ARG	X	173	31.492	52.138	45.490	0.00	0.00
ATOM	2657	HD2	ARG	X	173	31.670	52.511	46.499	0.00	0.00
ATOM	2658	HD3	ARG	X	173	30.751	52.770	44.999	0.00	0.00
ATOM	2659	NE	ARG	X	173	31.123	50.727	45.724	0.00	0.00
ATOM	2660	HE	ARG	X	173	31.356	50.129	44.944	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.385	50.157	46.749	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.938	50.935	47.655	0.00	0.00
ATOM	2663	HH11	ARG	X	173	30.170	51.917	47.608	0.00	0.00
ATOM	2664	HH12	ARG	X	173	29.281	50.639	48.363	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.132	48.899	46.730	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.362	48.324	45.932	0.00	0.00
ATOM	2667	HH22	ARG	X	173	29.593	48.549	47.509	0.00	0.00
ATOM	2668	C	ARG	X	173	35.310	54.058	44.799	0.00	0.00
ATOM	2669	O	ARG	X	173	34.908	54.679	43.865	0.00	0.00
ATOM	2670	N	LEU	X	174	35.769	54.597	45.912	0.00	0.00
ATOM	2671	H	LEU	X	174	36.072	53.995	46.665	0.00	0.00
ATOM	2672	CA	LEU	X	174	35.991	56.058	46.059	0.00	0.00
ATOM	2673	HA	LEU	X	174	35.128	56.663	45.781	0.00	0.00
ATOM	2674	CB	LEU	X	174	36.210	56.359	47.581	0.00	0.00
ATOM	2675	HB2	LEU	X	174	35.524	55.712	48.128	0.00	0.00
ATOM	2676	HB3	LEU	X	174	37.209	56.154	47.966	0.00	0.00
ATOM	2677	CG	LEU	X	174	35.773	57.789	47.994	0.00	0.00
ATOM	2678	HG	LEU	X	174	35.726	58.364	47.069	0.00	0.00
ATOM	2679	CD1	LEU	X	174	34.382	57.857	48.622	0.00	0.00
ATOM	2680	HD11	LEU	X	174	33.781	57.191	48.003	0.00	0.00
ATOM	2681	HD12	LEU	X	174	34.479	57.352	49.583	0.00	0.00
ATOM	2682	HD13	LEU	X	174	34.019	58.885	48.624	0.00	0.00
ATOM	2683	CD2	LEU	X	174	36.800	58.463	48.938	0.00	0.00
ATOM	2684	HD21	LEU	X	174	36.424	59.482	49.024	0.00	0.00
ATOM	2685	HD22	LEU	X	174	36.899	58.000	49.920	0.00	0.00
ATOM	2686	HD23	LEU	X	174	37.759	58.532	48.425	0.00	0.00
ATOM	2687	C	LEU	X	174	37.140	56.558	45.210	0.00	0.00
ATOM	2688	O	LEU	X	174	37.088	57.666	44.676	0.00	0.00
ATOM	2689	N	ALA	X	175	38.157	55.729	44.909	0.00	0.00
ATOM	2690	H	ALA	X	175	38.226	54.824	45.352	0.00	0.00
ATOM	2691	CA	ALA	X	175	39.145	55.996	43.875	0.00	0.00
ATOM	2692	HA	ALA	X	175	39.595	56.972	44.060	0.00	0.00
ATOM	2693	CB	ALA	X	175	40.321	55.069	43.991	0.00	0.00
ATOM	2694	HB1	ALA	X	175	40.867	55.260	43.068	0.00	0.00
ATOM	2695	HB2	ALA	X	175	40.965	55.302	44.839	0.00	0.00
ATOM	2696	HB3	ALA	X	175	39.978	54.038	44.078	0.00	0.00
ATOM	2697	C	ALA	X	175	38.455	56.031	42.443	0.00	0.00
ATOM	2698	O	ALA	X	175	38.679	56.907	41.660	0.00	0.00
ATOM	2699	N	LEU	X	176	37.656	54.978	42.158	0.00	0.00
ATOM	2700	H	LEU	X	176	37.959	54.151	42.652	0.00	0.00
ATOM	2701	CA	LEU	X	176	36.899	54.947	40.906	0.00	0.00

ATOM	2702	HA	LEU	X	176	37.620	55.109	40.105	0.00	0.00
ATOM	2703	CB	LEU	X	176	36.115	53.598	40.789	0.00	0.00
ATOM	2704	HB2	LEU	X	176	35.614	53.471	41.749	0.00	0.00
ATOM	2705	HB3	LEU	X	176	35.350	53.704	40.019	0.00	0.00
ATOM	2706	CG	LEU	X	176	37.120	52.499	40.373	0.00	0.00
ATOM	2707	HG	LEU	X	176	37.657	52.170	41.262	0.00	0.00
ATOM	2708	CD1	LEU	X	176	36.354	51.384	39.633	0.00	0.00
ATOM	2709	HD11	LEU	X	176	35.440	51.097	40.153	0.00	0.00
ATOM	2710	HD12	LEU	X	176	35.916	51.795	38.724	0.00	0.00
ATOM	2711	HD13	LEU	X	176	36.972	50.487	39.577	0.00	0.00
ATOM	2712	CD2	LEU	X	176	38.272	52.872	39.429	0.00	0.00
ATOM	2713	HD21	LEU	X	176	39.051	53.382	39.996	0.00	0.00
ATOM	2714	HD22	LEU	X	176	38.688	51.965	38.990	0.00	0.00
ATOM	2715	HD23	LEU	X	176	37.967	53.454	38.559	0.00	0.00
ATOM	2716	C	LEU	X	176	35.961	56.121	40.699	0.00	0.00
ATOM	2717	O	LEU	X	176	35.892	56.587	39.566	0.00	0.00
ATOM	2718	N	GLN	X	177	35.301	56.602	41.749	0.00	0.00
ATOM	2719	H	GLN	X	177	35.382	56.121	42.634	0.00	0.00
ATOM	2720	CA	GLN	X	177	34.425	57.748	41.719	0.00	0.00
ATOM	2721	HA	GLN	X	177	33.759	57.625	40.864	0.00	0.00
ATOM	2722	CB	GLN	X	177	33.586	57.804	42.989	0.00	0.00
ATOM	2723	HB2	GLN	X	177	34.339	57.776	43.777	0.00	0.00
ATOM	2724	HB3	GLN	X	177	33.154	58.797	43.110	0.00	0.00
ATOM	2725	CG	GLN	X	177	32.517	56.733	43.241	0.00	0.00
ATOM	2726	HG2	GLN	X	177	31.634	57.087	42.708	0.00	0.00
ATOM	2727	HG3	GLN	X	177	32.829	55.725	42.969	0.00	0.00
ATOM	2728	CD	GLN	X	177	32.125	56.751	44.730	0.00	0.00
ATOM	2729	OE1	GLN	X	177	32.687	56.011	45.562	0.00	0.00
ATOM	2730	NE2	GLN	X	177	31.211	57.645	45.246	0.00	0.00
ATOM	2731	HE21	GLN	X	177	31.059	57.590	46.243	0.00	0.00
ATOM	2732	HE22	GLN	X	177	30.715	58.284	44.641	0.00	0.00
ATOM	2733	C	GLN	X	177	35.218	59.025	41.431	0.00	0.00
ATOM	2734	O	GLN	X	177	34.631	59.920	40.857	0.00	0.00
ATOM	2735	N	TRP	X	178	36.528	59.089	41.807	0.00	0.00
ATOM	2736	H	TRP	X	178	36.962	58.296	42.258	0.00	0.00
ATOM	2737	CA	TRP	X	178	37.524	60.041	41.275	0.00	0.00
ATOM	2738	HA	TRP	X	178	37.059	61.026	41.308	0.00	0.00
ATOM	2739	CB	TRP	X	178	38.793	60.066	42.198	0.00	0.00
ATOM	2740	HB2	TRP	X	178	38.584	60.234	43.255	0.00	0.00
ATOM	2741	HB3	TRP	X	178	39.316	59.134	41.980	0.00	0.00
ATOM	2742	CG	TRP	X	178	39.785	61.074	41.769	0.00	0.00
ATOM	2743	CD1	TRP	X	178	39.977	62.306	42.360	0.00	0.00
ATOM	2744	HD1	TRP	X	178	39.455	62.763	43.187	0.00	0.00
ATOM	2745	NE1	TRP	X	178	41.035	62.955	41.740	0.00	0.00
ATOM	2746	HE1	TRP	X	178	41.209	63.948	41.807	0.00	0.00
ATOM	2747	CE2	TRP	X	178	41.593	62.172	40.783	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	42.520	62.534	39.818	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	43.106	63.438	39.899	0.00	0.00
ATOM	2750	CH2	TRP	X	178	42.831	61.543	38.821	0.00	0.00
ATOM	2751	HH2	TRP	X	178	43.532	61.739	38.023	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	42.199	60.338	38.763	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	42.383	59.689	37.919	0.00	0.00
ATOM	2754	CE3	TRP	X	178	41.303	59.973	39.797	0.00	0.00
ATOM	2755	HE3	TRP	X	178	40.918	58.966	39.874	0.00	0.00
ATOM	2756	CD2	TRP	X	178	40.813	60.933	40.730	0.00	0.00
ATOM	2757	C	TRP	X	178	37.807	59.860	39.790	0.00	0.00
ATOM	2758	O	TRP	X	178	37.534	60.857	39.092	0.00	0.00
ATOM	2759	N	VAL	X	179	38.178	58.654	39.375	0.00	0.00
ATOM	2760	H	VAL	X	179	38.153	57.862	40.002	0.00	0.00
ATOM	2761	CA	VAL	X	179	38.615	58.443	37.972	0.00	0.00
ATOM	2762	HA	VAL	X	179	39.412	59.185	37.909	0.00	0.00
ATOM	2763	CB	VAL	X	179	39.014	57.029	37.641	0.00	0.00
ATOM	2764	HB	VAL	X	179	38.224	56.322	37.895	0.00	0.00
ATOM	2765	CG1	VAL	X	179	39.300	56.744	36.162	0.00	0.00
ATOM	2766	HG11	VAL	X	179	40.178	57.315	35.861	0.00	0.00
ATOM	2767	HG12	VAL	X	179	39.596	55.707	36.005	0.00	0.00
ATOM	2768	HG13	VAL	X	179	38.421	56.992	35.567	0.00	0.00
ATOM	2769	CG2	VAL	X	179	40.243	56.641	38.471	0.00	0.00
ATOM	2770	HG21	VAL	X	179	40.533	55.610	38.269	0.00	0.00
ATOM	2771	HG22	VAL	X	179	41.140	57.230	38.279	0.00	0.00

ATOM	2772	HG23	VAL	X	179	40.109	56.635	39.553	0.00	0.00
ATOM	2773	C	VAL	X	179	37.592	58.969	36.979	0.00	0.00
ATOM	2774	O	VAL	X	179	37.903	59.707	36.055	0.00	0.00
ATOM	2775	N	GLN	X	180	36.342	58.629	37.201	0.00	0.00
ATOM	2776	H	GLN	X	180	36.279	58.049	38.025	0.00	0.00
ATOM	2777	CA	GLN	X	180	35.149	58.936	36.405	0.00	0.00
ATOM	2778	HA	GLN	X	180	35.257	58.541	35.395	0.00	0.00
ATOM	2779	CB	GLN	X	180	33.828	58.302	36.964	0.00	0.00
ATOM	2780	HB2	GLN	X	180	33.765	58.428	38.044	0.00	0.00
ATOM	2781	HB3	GLN	X	180	33.011	58.952	36.649	0.00	0.00
ATOM	2782	CG	GLN	X	180	33.403	56.900	36.465	0.00	0.00
ATOM	2783	HG2	GLN	X	180	34.109	56.087	36.633	0.00	0.00
ATOM	2784	HG3	GLN	X	180	32.501	56.638	37.017	0.00	0.00
ATOM	2785	CD	GLN	X	180	33.084	56.889	34.974	0.00	0.00
ATOM	2786	OE1	GLN	X	180	32.877	57.935	34.377	0.00	0.00
ATOM	2787	NE2	GLN	X	180	33.287	55.798	34.222	0.00	0.00
ATOM	2788	HE21	GLN	X	180	33.146	55.791	33.222	0.00	0.00
ATOM	2789	HE22	GLN	X	180	33.549	54.920	34.647	0.00	0.00
ATOM	2790	C	GLN	X	180	35.084	60.482	36.340	0.00	0.00
ATOM	2791	O	GLN	X	180	34.891	60.986	35.246	0.00	0.00
ATOM	2792	N	GLU	X	181	35.189	61.235	37.406	0.00	0.00
ATOM	2793	H	GLU	X	181	35.472	60.775	38.259	0.00	0.00
ATOM	2794	CA	GLU	X	181	34.922	62.649	37.519	0.00	0.00
ATOM	2795	HA	GLU	X	181	34.110	63.088	36.941	0.00	0.00
ATOM	2796	CB	GLU	X	181	34.567	62.837	39.036	0.00	0.00
ATOM	2797	HB2	GLU	X	181	33.711	62.182	39.197	0.00	0.00
ATOM	2798	HB3	GLU	X	181	35.327	62.434	39.706	0.00	0.00
ATOM	2799	CG	GLU	X	181	34.154	64.296	39.352	0.00	0.00
ATOM	2800	HG2	GLU	X	181	33.786	64.346	40.377	0.00	0.00
ATOM	2801	HG3	GLU	X	181	35.044	64.919	39.435	0.00	0.00
ATOM	2802	CD	GLU	X	181	33.042	64.866	38.492	0.00	0.00
ATOM	2803	OE1	GLU	X	181	33.027	66.085	38.251	0.00	0.00
ATOM	2804	OE2	GLU	X	181	32.139	64.060	38.203	0.00	0.00
ATOM	2805	C	GLU	X	181	36.116	63.461	37.008	0.00	0.00
ATOM	2806	O	GLU	X	181	35.850	64.580	36.699	0.00	0.00
ATOM	2807	N	ASN	X	182	37.371	63.015	36.946	0.00	0.00
ATOM	2808	H	ASN	X	182	37.370	62.115	37.404	0.00	0.00
ATOM	2809	CA	ASN	X	182	38.528	63.774	36.639	0.00	0.00
ATOM	2810	HA	ASN	X	182	38.268	64.804	36.396	0.00	0.00
ATOM	2811	CB	ASN	X	182	39.236	63.927	38.005	0.00	0.00
ATOM	2812	HB2	ASN	X	182	39.422	62.913	38.360	0.00	0.00
ATOM	2813	HB3	ASN	X	182	40.164	64.470	37.823	0.00	0.00
ATOM	2814	CG	ASN	X	182	38.400	64.644	39.109	0.00	0.00
ATOM	2815	OD1	ASN	X	182	37.917	65.722	38.885	0.00	0.00
ATOM	2816	ND2	ASN	X	182	38.159	63.927	40.158	0.00	0.00
ATOM	2817	HD21	ASN	X	182	37.637	64.261	40.956	0.00	0.00
ATOM	2818	HD22	ASN	X	182	38.500	62.977	40.186	0.00	0.00
ATOM	2819	C	ASN	X	182	39.445	63.343	35.510	0.00	0.00
ATOM	2820	O	ASN	X	182	40.179	64.194	35.034	0.00	0.00
ATOM	2821	N	VAL	X	183	39.465	62.065	35.069	0.00	0.00
ATOM	2822	H	VAL	X	183	38.865	61.377	35.501	0.00	0.00
ATOM	2823	CA	VAL	X	183	40.453	61.522	34.096	0.00	0.00
ATOM	2824	HA	VAL	X	183	41.451	61.758	34.467	0.00	0.00
ATOM	2825	CB	VAL	X	183	40.452	60.002	34.027	0.00	0.00
ATOM	2826	HB	VAL	X	183	40.289	59.631	35.039	0.00	0.00
ATOM	2827	CG1	VAL	X	183	39.292	59.438	33.198	0.00	0.00
ATOM	2828	HG11	VAL	X	183	38.394	59.983	33.490	0.00	0.00
ATOM	2829	HG12	VAL	X	183	39.542	59.510	32.139	0.00	0.00
ATOM	2830	HG13	VAL	X	183	39.101	58.371	33.313	0.00	0.00
ATOM	2831	CG2	VAL	X	183	41.757	59.424	33.521	0.00	0.00
ATOM	2832	HG21	VAL	X	183	42.467	59.626	34.323	0.00	0.00
ATOM	2833	HG22	VAL	X	183	41.566	58.351	33.499	0.00	0.00
ATOM	2834	HG23	VAL	X	183	41.979	59.819	32.529	0.00	0.00
ATOM	2835	C	VAL	X	183	40.446	62.161	32.755	0.00	0.00
ATOM	2836	O	VAL	X	183	41.418	62.318	31.971	0.00	0.00
ATOM	2837	N	ALA	X	184	39.242	62.674	32.327	0.00	0.00
ATOM	2838	H	ALA	X	184	38.456	62.529	32.944	0.00	0.00
ATOM	2839	CA	ALA	X	184	38.988	63.504	31.145	0.00	0.00
ATOM	2840	HA	ALA	X	184	39.207	62.936	30.241	0.00	0.00
ATOM	2841	CB	ALA	X	184	37.557	63.930	31.131	0.00	0.00

ATOM	2842	HB1	ALA	X	184	37.375	64.459	32.067	0.00	0.00
ATOM	2843	HB2	ALA	X	184	37.338	64.620	30.316	0.00	0.00
ATOM	2844	HB3	ALA	X	184	36.972	63.030	30.941	0.00	0.00
ATOM	2845	C	ALA	X	184	39.954	64.685	31.109	0.00	0.00
ATOM	2846	O	ALA	X	184	40.478	65.036	30.018	0.00	0.00
ATOM	2847	N	ALA	X	185	40.451	65.266	32.209	0.00	0.00
ATOM	2848	H	ALA	X	185	40.087	65.052	33.127	0.00	0.00
ATOM	2849	CA	ALA	X	185	41.359	66.431	32.232	0.00	0.00
ATOM	2850	HA	ALA	X	185	41.095	67.103	31.415	0.00	0.00
ATOM	2851	CB	ALA	X	185	41.241	67.342	33.450	0.00	0.00
ATOM	2852	HB1	ALA	X	185	42.057	68.049	33.297	0.00	0.00
ATOM	2853	HB2	ALA	X	185	40.299	67.877	33.572	0.00	0.00
ATOM	2854	HB3	ALA	X	185	41.471	66.798	34.366	0.00	0.00
ATOM	2855	C	ALA	X	185	42.834	66.010	32.082	0.00	0.00
ATOM	2856	O	ALA	X	185	43.526	66.756	31.433	0.00	0.00
ATOM	2857	N	PHE	X	186	43.200	64.758	32.407	0.00	0.00
ATOM	2858	H	PHE	X	186	42.648	64.259	33.090	0.00	0.00
ATOM	2859	CA	PHE	X	186	44.469	64.102	32.073	0.00	0.00
ATOM	2860	HA	PHE	X	186	45.241	64.861	32.197	0.00	0.00
ATOM	2861	CB	PHE	X	186	44.710	62.886	33.068	0.00	0.00
ATOM	2862	HB2	PHE	X	186	43.852	62.229	32.928	0.00	0.00
ATOM	2863	HB3	PHE	X	186	45.573	62.303	32.747	0.00	0.00
ATOM	2864	CG	PHE	X	186	44.873	63.281	34.536	0.00	0.00
ATOM	2865	CD1	PHE	X	186	43.721	63.603	35.260	0.00	0.00
ATOM	2866	HD1	PHE	X	186	42.746	63.448	34.823	0.00	0.00
ATOM	2867	CE1	PHE	X	186	43.815	64.195	36.489	0.00	0.00
ATOM	2868	HE1	PHE	X	186	42.881	64.556	36.894	0.00	0.00
ATOM	2869	CZ	PHE	X	186	45.040	64.400	37.080	0.00	0.00
ATOM	2870	HZ	PHE	X	186	45.104	64.746	38.102	0.00	0.00
ATOM	2871	CE2	PHE	X	186	46.260	64.125	36.342	0.00	0.00
ATOM	2872	HE2	PHE	X	186	47.245	64.313	36.742	0.00	0.00
ATOM	2873	CD2	PHE	X	186	46.113	63.609	35.033	0.00	0.00
ATOM	2874	HD2	PHE	X	186	46.958	63.429	34.385	0.00	0.00
ATOM	2875	C	PHE	X	186	44.607	63.570	30.599	0.00	0.00
ATOM	2876	O	PHE	X	186	45.696	63.298	30.092	0.00	0.00
ATOM	2877	N	GLY	X	187	43.481	63.519	29.904	0.00	0.00
ATOM	2878	H	GLY	X	187	42.588	63.707	30.336	0.00	0.00
ATOM	2879	CA	GLY	X	187	43.345	63.165	28.513	0.00	0.00
ATOM	2880	HA2	GLY	X	187	42.723	63.847	27.905	0.00	0.00
ATOM	2881	HA3	GLY	X	187	44.298	63.178	27.971	0.00	0.00
ATOM	2882	C	GLY	X	187	42.742	61.776	28.276	0.00	0.00
ATOM	2883	O	GLY	X	187	42.726	61.334	27.165	0.00	0.00
ATOM	2884	N	GLY	X	188	42.388	60.943	29.282	0.00	0.00
ATOM	2885	H	GLY	X	188	42.503	61.309	30.216	0.00	0.00
ATOM	2886	CA	GLY	X	188	41.841	59.610	29.215	0.00	0.00
ATOM	2887	HA2	GLY	X	188	42.271	59.005	28.416	0.00	0.00
ATOM	2888	HA3	GLY	X	188	42.147	59.110	30.135	0.00	0.00
ATOM	2889	C	GLY	X	188	40.329	59.624	29.105	0.00	0.00
ATOM	2890	O	GLY	X	188	39.707	60.647	29.542	0.00	0.00
ATOM	2891	N	ASP	X	189	39.717	58.576	28.535	0.00	0.00
ATOM	2892	H	ASP	X	189	40.296	57.779	28.314	0.00	0.00
ATOM	2893	CA	ASP	X	189	38.263	58.440	28.314	0.00	0.00
ATOM	2894	HA	ASP	X	189	37.922	59.463	28.154	0.00	0.00
ATOM	2895	CB	ASP	X	189	38.028	57.770	26.989	0.00	0.00
ATOM	2896	HB2	ASP	X	189	38.578	58.341	26.241	0.00	0.00
ATOM	2897	HB3	ASP	X	189	38.403	56.746	26.997	0.00	0.00
ATOM	2898	CG	ASP	X	189	36.503	57.684	26.615	0.00	0.00
ATOM	2899	OD1	ASP	X	189	35.835	58.722	26.711	0.00	0.00
ATOM	2900	OD2	ASP	X	189	35.949	56.627	26.243	0.00	0.00
ATOM	2901	C	ASP	X	189	37.492	57.827	29.496	0.00	0.00
ATOM	2902	O	ASP	X	189	37.669	56.640	29.701	0.00	0.00
ATOM	2903	N	PRO	X	190	36.599	58.558	30.223	0.00	0.00
ATOM	2904	CD	PRO	X	190	36.450	59.993	30.204	0.00	0.00
ATOM	2905	HD2	PRO	X	190	36.310	60.390	29.199	0.00	0.00
ATOM	2906	HD3	PRO	X	190	37.362	60.430	30.610	0.00	0.00
ATOM	2907	CG	PRO	X	190	35.246	60.347	31.101	0.00	0.00
ATOM	2908	HG2	PRO	X	190	34.274	60.236	30.619	0.00	0.00
ATOM	2909	HG3	PRO	X	190	35.475	61.279	31.618	0.00	0.00
ATOM	2910	CB	PRO	X	190	35.302	59.161	32.046	0.00	0.00
ATOM	2911	HB2	PRO	X	190	34.352	59.039	32.567	0.00	0.00

ATOM	2912	HB3	PRO	X	190	36.075	59.252	32.810	0.00	0.00
ATOM	2913	CA	PRO	X	190	35.679	57.987	31.163	0.00	0.00
ATOM	2914	HA	PRO	X	190	36.258	57.354	31.836	0.00	0.00
ATOM	2915	C	PRO	X	190	34.457	57.171	30.647	0.00	0.00
ATOM	2916	O	PRO	X	190	33.825	56.505	31.403	0.00	0.00
ATOM	2917	N	THR	X	191	34.360	57.066	29.279	0.00	0.00
ATOM	2918	H	THR	X	191	34.809	57.647	28.586	0.00	0.00
ATOM	2919	CA	THR	X	191	33.441	56.084	28.640	0.00	0.00
ATOM	2920	HA	THR	X	191	32.749	55.783	29.426	0.00	0.00
ATOM	2921	CB	THR	X	191	32.626	56.746	27.498	0.00	0.00
ATOM	2922	HB	THR	X	191	32.807	56.196	26.575	0.00	0.00
ATOM	2923	CG2	THR	X	191	31.124	56.771	27.688	0.00	0.00
ATOM	2924	HG21	THR	X	191	30.808	55.767	27.970	0.00	0.00
ATOM	2925	HG22	THR	X	191	30.990	57.380	28.582	0.00	0.00
ATOM	2926	HG23	THR	X	191	30.585	57.176	26.832	0.00	0.00
ATOM	2927	OG1	THR	X	191	32.980	58.157	27.371	0.00	0.00
ATOM	2928	HG1	THR	X	191	33.838	58.110	26.943	0.00	0.00
ATOM	2929	C	THR	X	191	34.209	54.777	28.159	0.00	0.00
ATOM	2930	O	THR	X	191	33.573	53.950	27.474	0.00	0.00
ATOM	2931	N	SER	X	192	35.454	54.674	28.527	0.00	0.00
ATOM	2932	H	SER	X	192	35.971	55.376	29.036	0.00	0.00
ATOM	2933	CA	SER	X	192	36.274	53.484	28.205	0.00	0.00
ATOM	2934	HA	SER	X	192	35.636	52.602	28.143	0.00	0.00
ATOM	2935	CB	SER	X	192	36.979	53.814	26.888	0.00	0.00
ATOM	2936	HB2	SER	X	192	37.674	54.641	27.030	0.00	0.00
ATOM	2937	HB3	SER	X	192	37.537	52.944	26.541	0.00	0.00
ATOM	2938	OG	SER	X	192	36.149	54.137	25.835	0.00	0.00
ATOM	2939	HG	SER	X	192	35.958	55.058	26.027	0.00	0.00
ATOM	2940	C	SER	X	192	37.323	53.186	29.346	0.00	0.00
ATOM	2941	O	SER	X	192	38.515	52.908	29.003	0.00	0.00
ATOM	2942	N	VAL	X	193	36.832	53.145	30.600	0.00	0.00
ATOM	2943	H	VAL	X	193	35.881	53.396	30.826	0.00	0.00
ATOM	2944	CA	VAL	X	193	37.574	52.603	31.697	0.00	0.00
ATOM	2945	HA	VAL	X	193	38.606	52.836	31.436	0.00	0.00
ATOM	2946	CB	VAL	X	193	37.071	53.239	33.032	0.00	0.00
ATOM	2947	HB	VAL	X	193	35.995	53.062	33.059	0.00	0.00
ATOM	2948	CG1	VAL	X	193	37.791	52.672	34.282	0.00	0.00
ATOM	2949	HG11	VAL	X	193	38.874	52.678	34.155	0.00	0.00
ATOM	2950	HG12	VAL	X	193	37.553	53.260	35.169	0.00	0.00
ATOM	2951	HG13	VAL	X	193	37.383	51.676	34.454	0.00	0.00
ATOM	2952	CG2	VAL	X	193	37.242	54.758	32.920	0.00	0.00
ATOM	2953	HG21	VAL	X	193	38.289	54.955	32.693	0.00	0.00
ATOM	2954	HG22	VAL	X	193	36.675	55.178	32.090	0.00	0.00
ATOM	2955	HG23	VAL	X	193	36.957	55.224	33.864	0.00	0.00
ATOM	2956	C	VAL	X	193	37.487	51.070	31.764	0.00	0.00
ATOM	2957	O	VAL	X	193	36.420	50.537	32.036	0.00	0.00
ATOM	2958	N	THR	X	194	38.658	50.396	31.767	0.00	0.00
ATOM	2959	H	THR	X	194	39.523	50.854	31.519	0.00	0.00
ATOM	2960	CA	THR	X	194	38.961	48.975	32.249	0.00	0.00
ATOM	2961	HA	THR	X	194	37.954	48.559	32.275	0.00	0.00
ATOM	2962	CB	THR	X	194	39.698	48.175	31.173	0.00	0.00
ATOM	2963	HB	THR	X	194	40.623	48.686	30.904	0.00	0.00
ATOM	2964	CG2	THR	X	194	39.957	46.726	31.523	0.00	0.00
ATOM	2965	HG21	THR	X	194	40.614	46.578	32.380	0.00	0.00
ATOM	2966	HG22	THR	X	194	39.021	46.233	31.786	0.00	0.00
ATOM	2967	HG23	THR	X	194	40.389	46.320	30.609	0.00	0.00
ATOM	2968	OG1	THR	X	194	38.954	48.149	29.992	0.00	0.00
ATOM	2969	HG1	THR	X	194	39.069	48.985	29.535	0.00	0.00
ATOM	2970	C	THR	X	194	39.667	48.941	33.597	0.00	0.00
ATOM	2971	O	THR	X	194	40.517	49.783	33.838	0.00	0.00
ATOM	2972	N	LEU	X	195	39.288	47.988	34.473	0.00	0.00
ATOM	2973	H	LEU	X	195	38.597	47.324	34.152	0.00	0.00
ATOM	2974	CA	LEU	X	195	39.965	47.740	35.726	0.00	0.00
ATOM	2975	HA	LEU	X	195	40.697	48.484	36.039	0.00	0.00
ATOM	2976	CB	LEU	X	195	38.972	47.412	36.827	0.00	0.00
ATOM	2977	HB2	LEU	X	195	38.457	46.473	36.623	0.00	0.00
ATOM	2978	HB3	LEU	X	195	39.491	47.183	37.757	0.00	0.00
ATOM	2979	CG	LEU	X	195	37.880	48.480	37.138	0.00	0.00
ATOM	2980	HG	LEU	X	195	37.340	48.557	36.195	0.00	0.00
ATOM	2981	CD1	LEU	X	195	37.051	48.055	38.344	0.00	0.00

ATOM	2982	HD11	LEU	X	195	37.661	47.955	39.243	0.00	0.00
ATOM	2983	HD12	LEU	X	195	36.237	48.749	38.550	0.00	0.00
ATOM	2984	HD13	LEU	X	195	36.721	47.020	38.250	0.00	0.00
ATOM	2985	CD2	LEU	X	195	38.424	49.832	37.296	0.00	0.00
ATOM	2986	HD21	LEU	X	195	39.036	50.036	38.176	0.00	0.00
ATOM	2987	HD22	LEU	X	195	38.976	50.140	36.408	0.00	0.00
ATOM	2988	HD23	LEU	X	195	37.624	50.566	37.387	0.00	0.00
ATOM	2989	C	LEU	X	195	40.796	46.424	35.539	0.00	0.00
ATOM	2990	O	LEU	X	195	40.265	45.406	35.040	0.00	0.00
ATOM	2991	N	PHE	X	196	42.029	46.390	35.992	0.00	0.00
ATOM	2992	H	PHE	X	196	42.369	47.177	36.527	0.00	0.00
ATOM	2993	CA	PHE	X	196	42.869	45.195	36.030	0.00	0.00
ATOM	2994	HA	PHE	X	196	42.149	44.376	36.013	0.00	0.00
ATOM	2995	CB	PHE	X	196	43.761	45.102	34.706	0.00	0.00
ATOM	2996	HB2	PHE	X	196	43.933	44.054	34.460	0.00	0.00
ATOM	2997	HB3	PHE	X	196	43.205	45.486	33.851	0.00	0.00
ATOM	2998	CG	PHE	X	196	45.157	45.807	34.760	0.00	0.00
ATOM	2999	CD1	PHE	X	196	45.314	47.162	34.697	0.00	0.00
ATOM	3000	HD1	PHE	X	196	44.440	47.797	34.712	0.00	0.00
ATOM	3001	CE1	PHE	X	196	46.567	47.759	34.575	0.00	0.00
ATOM	3002	HE1	PHE	X	196	46.636	48.826	34.427	0.00	0.00
ATOM	3003	CZ	PHE	X	196	47.713	47.034	34.514	0.00	0.00
ATOM	3004	HZ	PHE	X	196	48.647	47.540	34.319	0.00	0.00
ATOM	3005	CE2	PHE	X	196	47.600	45.608	34.459	0.00	0.00
ATOM	3006	HE2	PHE	X	196	48.434	44.971	34.205	0.00	0.00
ATOM	3007	CD2	PHE	X	196	46.344	44.955	34.684	0.00	0.00
ATOM	3008	HD2	PHE	X	196	46.268	43.878	34.721	0.00	0.00
ATOM	3009	C	PHE	X	196	43.752	45.105	37.304	0.00	0.00
ATOM	3010	O	PHE	X	196	44.067	46.103	37.891	0.00	0.00
ATOM	3011	N	GLY	X	197	44.279	43.902	37.569	0.00	0.00
ATOM	3012	H	GLY	X	197	44.005	43.079	37.052	0.00	0.00
ATOM	3013	CA	GLY	X	197	44.948	43.612	38.821	0.00	0.00
ATOM	3014	HA2	GLY	X	197	45.740	44.256	39.036	0.00	0.00
ATOM	3015	HA3	GLY	X	197	44.241	43.806	39.668	0.00	0.00
ATOM	3016	C	GLY	X	197	45.421	42.156	38.994	0.00	0.00
ATOM	3017	O	GLY	X	197	44.539	41.329	38.708	0.00	0.00
ATOM	3018	N	GLU	X	198	46.556	41.870	39.588	0.00	0.00
ATOM	3019	H	GLU	X	198	47.136	42.667	39.810	0.00	0.00
ATOM	3020	CA	GLU	X	198	46.922	40.536	40.155	0.00	0.00
ATOM	3021	HA	GLU	X	198	46.644	39.826	39.376	0.00	0.00
ATOM	3022	CB	GLU	X	198	48.448	40.448	40.313	0.00	0.00
ATOM	3023	HB2	GLU	X	198	48.583	39.503	40.839	0.00	0.00
ATOM	3024	HB3	GLU	X	198	48.930	40.288	39.348	0.00	0.00
ATOM	3025	CG	GLU	X	198	49.103	41.647	41.085	0.00	0.00
ATOM	3026	HG2	GLU	X	198	49.418	42.440	40.406	0.00	0.00
ATOM	3027	HG3	GLU	X	198	48.436	42.221	41.728	0.00	0.00
ATOM	3028	CD	GLU	X	198	50.278	41.321	42.023	0.00	0.00
ATOM	3029	OE1	GLU	X	198	51.396	41.861	41.921	0.00	0.00
ATOM	3030	OE2	GLU	X	198	50.080	40.441	42.849	0.00	0.00
ATOM	3031	C	GLU	X	198	46.193	40.188	41.470	0.00	0.00
ATOM	3032	O	GLU	X	198	46.136	40.985	42.396	0.00	0.00
ATOM	3033	N	XA1	X	199	45.679	38.942	41.592	0.00	0.00
ATOM	3034	CA	XA1	X	199	45.581	38.224	42.860	0.00	0.00
ATOM	3035	C	XA1	X	199	44.522	38.939	43.743	0.00	0.00
ATOM	3036	O	XA1	X	199	43.355	39.053	43.333	0.00	0.00
ATOM	3037	CB	XA1	X	199	46.942	37.930	43.506	0.00	0.00
ATOM	3038	OG	XA1	X	199	46.869	36.971	44.533	0.00	0.00
ATOM	3039	P1	XA1	X	199	47.388	37.411	45.930	0.00	0.00
ATOM	3040	O1	XA1	X	199	47.436	38.804	46.302	0.00	0.00
ATOM	3041	O2	XA1	X	199	48.700	36.820	46.312	0.00	0.00
ATOM	3042	C1	XA1	X	199	46.090	36.510	46.715	0.00	0.00
ATOM	3043	H	XA1	X	199	45.649	38.380	40.753	0.00	0.00
ATOM	3044	HA	XA1	X	199	45.193	37.253	42.550	0.00	0.00
ATOM	3045	HB2	XA1	X	199	47.553	37.650	42.644	0.00	0.00
ATOM	3046	HB3	XA1	X	199	47.165	38.912	43.932	0.00	0.00
ATOM	3047	H11	XA1	X	199	45.982	35.518	46.269	0.00	0.00
ATOM	3048	H12	XA1	X	199	46.256	36.536	47.794	0.00	0.00
ATOM	3049	H13	XA1	X	199	45.157	37.065	46.601	0.00	0.00
ATOM	3050	N	ALA	X	200	44.859	39.448	44.989	0.00	0.00
ATOM	3051	H	ALA	X	200	45.827	39.340	45.258	0.00	0.00

ATOM	3052	CA	ALA	X	200	43.986	40.277	45.792	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.087	39.732	46.081	0.00	0.00
ATOM	3054	CB	ALA	X	200	44.591	40.720	47.116	0.00	0.00
ATOM	3055	HB1	ALA	X	200	43.714	41.111	47.630	0.00	0.00
ATOM	3056	HB2	ALA	X	200	44.883	39.832	47.678	0.00	0.00
ATOM	3057	HB3	ALA	X	200	45.416	41.422	46.995	0.00	0.00
ATOM	3058	C	ALA	X	200	43.433	41.435	44.971	0.00	0.00
ATOM	3059	O	ALA	X	200	42.363	41.996	45.282	0.00	0.00
ATOM	3060	N	GLY	X	201	44.110	41.857	43.915	0.00	0.00
ATOM	3061	H	GLY	X	201	44.949	41.357	43.655	0.00	0.00
ATOM	3062	CA	GLY	X	201	43.496	42.853	43.009	0.00	0.00
ATOM	3063	HA2	GLY	X	201	42.973	43.568	43.603	0.00	0.00
ATOM	3064	HA3	GLY	X	201	44.232	43.246	42.412	0.00	0.00
ATOM	3065	C	GLY	X	201	42.517	42.308	41.987	0.00	0.00
ATOM	3066	O	GLY	X	201	41.464	42.913	41.683	0.00	0.00
ATOM	3067	N	ALA	X	202	42.842	41.069	41.450	0.00	0.00
ATOM	3068	H	ALA	X	202	43.678	40.548	41.674	0.00	0.00
ATOM	3069	CA	ALA	X	202	41.810	40.297	40.699	0.00	0.00
ATOM	3070	HA	ALA	X	202	41.609	40.932	39.836	0.00	0.00
ATOM	3071	CB	ALA	X	202	42.459	39.017	40.116	0.00	0.00
ATOM	3072	HB1	ALA	X	202	42.866	38.562	41.019	0.00	0.00
ATOM	3073	HB2	ALA	X	202	41.812	38.414	39.478	0.00	0.00
ATOM	3074	HB3	ALA	X	202	43.276	39.194	39.417	0.00	0.00
ATOM	3075	C	ALA	X	202	40.581	39.955	41.450	0.00	0.00
ATOM	3076	O	ALA	X	202	39.504	40.243	40.992	0.00	0.00
ATOM	3077	N	ALA	X	203	40.634	39.455	42.738	0.00	0.00
ATOM	3078	H	ALA	X	203	41.565	39.188	43.025	0.00	0.00
ATOM	3079	CA	ALA	X	203	39.566	39.360	43.708	0.00	0.00
ATOM	3080	HA	ALA	X	203	38.693	38.824	43.335	0.00	0.00
ATOM	3081	CB	ALA	X	203	40.028	38.592	44.946	0.00	0.00
ATOM	3082	HB1	ALA	X	203	39.180	38.517	45.626	0.00	0.00
ATOM	3083	HB2	ALA	X	203	40.403	37.643	44.564	0.00	0.00
ATOM	3084	HB3	ALA	X	203	40.837	39.159	45.406	0.00	0.00
ATOM	3085	C	ALA	X	203	38.943	40.734	44.064	0.00	0.00
ATOM	3086	O	ALA	X	203	37.661	40.845	44.182	0.00	0.00
ATOM	3087	N	SER	X	204	39.689	41.809	44.198	0.00	0.00
ATOM	3088	H	SER	X	204	40.693	41.770	44.295	0.00	0.00
ATOM	3089	CA	SER	X	204	39.093	43.126	44.205	0.00	0.00
ATOM	3090	HA	SER	X	204	38.446	43.077	45.080	0.00	0.00
ATOM	3091	CB	SER	X	204	40.163	44.239	44.424	0.00	0.00
ATOM	3092	HB2	SER	X	204	40.974	44.068	43.716	0.00	0.00
ATOM	3093	HB3	SER	X	204	39.763	45.213	44.141	0.00	0.00
ATOM	3094	OG	SER	X	204	40.642	44.324	45.764	0.00	0.00
ATOM	3095	HG	SER	X	204	41.311	43.637	45.814	0.00	0.00
ATOM	3096	C	SER	X	204	38.228	43.408	42.960	0.00	0.00
ATOM	3097	O	SER	X	204	37.094	43.782	43.051	0.00	0.00
ATOM	3098	N	VAL	X	205	38.703	43.064	41.729	0.00	0.00
ATOM	3099	H	VAL	X	205	39.664	42.754	41.705	0.00	0.00
ATOM	3100	CA	VAL	X	205	38.131	43.351	40.432	0.00	0.00
ATOM	3101	HA	VAL	X	205	38.054	44.434	40.330	0.00	0.00
ATOM	3102	CB	VAL	X	205	39.108	42.978	39.293	0.00	0.00
ATOM	3103	HB	VAL	X	205	39.742	42.128	39.543	0.00	0.00
ATOM	3104	CG1	VAL	X	205	38.512	42.637	37.893	0.00	0.00
ATOM	3105	HG11	VAL	X	205	39.337	42.320	37.255	0.00	0.00
ATOM	3106	HG12	VAL	X	205	37.857	41.768	37.960	0.00	0.00
ATOM	3107	HG13	VAL	X	205	38.094	43.541	37.450	0.00	0.00
ATOM	3108	CG2	VAL	X	205	40.140	44.136	39.110	0.00	0.00
ATOM	3109	HG21	VAL	X	205	39.659	44.989	38.632	0.00	0.00
ATOM	3110	HG22	VAL	X	205	40.615	44.495	40.022	0.00	0.00
ATOM	3111	HG23	VAL	X	205	40.905	43.811	38.404	0.00	0.00
ATOM	3112	C	VAL	X	205	36.758	42.684	40.289	0.00	0.00
ATOM	3113	O	VAL	X	205	35.944	43.309	39.721	0.00	0.00
ATOM	3114	N	GLY	X	206	36.556	41.459	40.771	0.00	0.00
ATOM	3115	H	GLY	X	206	37.411	41.060	41.130	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.327	40.704	40.677	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.931	41.012	39.680	0.00	0.00
ATOM	3118	HA3	GLY	X	206	35.520	39.642	40.724	0.00	0.00
ATOM	3119	C	GLY	X	206	34.348	41.129	41.787	0.00	0.00
ATOM	3120	O	GLY	X	206	33.226	41.212	41.367	0.00	0.00
ATOM	3121	N	MET	X	207	34.716	41.304	43.083	0.00	0.00

ATOM	3122	H	MET	X	207	35.698	41.140	43.252	0.00	0.00
ATOM	3123	CA	MET	X	207	33.858	41.887	44.151	0.00	0.00
ATOM	3124	HA	MET	X	207	32.955	41.283	44.238	0.00	0.00
ATOM	3125	CB	MET	X	207	34.547	42.058	45.504	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.396	42.741	45.531	0.00	0.00
ATOM	3127	HB3	MET	X	207	33.882	42.482	46.257	0.00	0.00
ATOM	3128	CG	MET	X	207	35.106	40.703	46.002	0.00	0.00
ATOM	3129	HG2	MET	X	207	34.246	40.046	46.131	0.00	0.00
ATOM	3130	HG3	MET	X	207	35.809	40.335	45.255	0.00	0.00
ATOM	3131	SD	MET	X	207	35.950	40.841	47.673	0.00	0.00
ATOM	3132	CE	MET	X	207	36.591	39.167	47.625	0.00	0.00
ATOM	3133	HE1	MET	X	207	37.158	39.002	48.541	0.00	0.00
ATOM	3134	HE2	MET	X	207	35.846	38.384	47.492	0.00	0.00
ATOM	3135	HE3	MET	X	207	37.372	39.055	46.873	0.00	0.00
ATOM	3136	C	MET	X	207	33.261	43.199	43.610	0.00	0.00
ATOM	3137	O	MET	X	207	32.041	43.360	43.799	0.00	0.00
ATOM	3138	N	HIE	X	208	34.083	44.039	42.958	0.00	0.00
ATOM	3139	H	HIE	X	208	35.062	43.792	42.914	0.00	0.00
ATOM	3140	CA	HIE	X	208	33.567	45.231	42.180	0.00	0.00
ATOM	3141	HA	HIE	X	208	33.033	45.844	42.906	0.00	0.00
ATOM	3142	CB	HIE	X	208	34.711	46.110	41.542	0.00	0.00
ATOM	3143	HB2	HIE	X	208	35.274	45.475	40.858	0.00	0.00
ATOM	3144	HB3	HIE	X	208	34.318	46.955	40.976	0.00	0.00
ATOM	3145	CG	HIE	X	208	35.557	46.773	42.621	0.00	0.00
ATOM	3146	ND1	HIE	X	208	35.000	47.624	43.621	0.00	0.00
ATOM	3147	CE1	HIE	X	208	36.091	48.024	44.315	0.00	0.00
ATOM	3148	HE1	HIE	X	208	36.171	48.774	45.088	0.00	0.00
ATOM	3149	NE2	HIE	X	208	37.207	47.484	43.841	0.00	0.00
ATOM	3150	HE2	HIE	X	208	38.140	47.665	44.181	0.00	0.00
ATOM	3151	CD2	HIE	X	208	36.932	46.759	42.743	0.00	0.00
ATOM	3152	HD2	HIE	X	208	37.665	46.283	42.109	0.00	0.00
ATOM	3153	C	HIE	X	208	32.558	44.970	40.991	0.00	0.00
ATOM	3154	O	HIE	X	208	31.632	45.718	40.800	0.00	0.00
ATOM	3155	N	LEU	X	209	32.709	43.842	40.220	0.00	0.00
ATOM	3156	H	LEU	X	209	33.525	43.276	40.403	0.00	0.00
ATOM	3157	CA	LEU	X	209	31.769	43.380	39.219	0.00	0.00
ATOM	3158	HA	LEU	X	209	31.454	44.253	38.648	0.00	0.00
ATOM	3159	CB	LEU	X	209	32.502	42.266	38.367	0.00	0.00
ATOM	3160	HB2	LEU	X	209	33.519	42.597	38.157	0.00	0.00
ATOM	3161	HB3	LEU	X	209	32.602	41.359	38.962	0.00	0.00
ATOM	3162	CG	LEU	X	209	31.909	41.825	37.019	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.147	41.063	37.186	0.00	0.00
ATOM	3164	CD1	LEU	X	209	31.241	42.995	36.212	0.00	0.00
ATOM	3165	HD11	LEU	X	209	31.030	42.510	35.259	0.00	0.00
ATOM	3166	HD12	LEU	X	209	30.270	43.401	36.497	0.00	0.00
ATOM	3167	HD13	LEU	X	209	32.017	43.668	35.849	0.00	0.00
ATOM	3168	CD2	LEU	X	209	32.942	40.944	36.263	0.00	0.00
ATOM	3169	HD21	LEU	X	209	33.690	41.592	35.806	0.00	0.00
ATOM	3170	HD22	LEU	X	209	33.419	40.122	36.797	0.00	0.00
ATOM	3171	HD23	LEU	X	209	32.428	40.379	35.485	0.00	0.00
ATOM	3172	C	LEU	X	209	30.521	42.668	39.764	0.00	0.00
ATOM	3173	O	LEU	X	209	29.505	42.620	39.091	0.00	0.00
ATOM	3174	N	LEU	X	210	30.640	42.136	41.002	0.00	0.00
ATOM	3175	H	LEU	X	210	31.486	42.267	41.539	0.00	0.00
ATOM	3176	CA	LEU	X	210	29.493	41.573	41.805	0.00	0.00
ATOM	3177	HA	LEU	X	210	28.769	41.165	41.099	0.00	0.00
ATOM	3178	CB	LEU	X	210	29.933	40.456	42.802	0.00	0.00
ATOM	3179	HB2	LEU	X	210	30.668	40.960	43.430	0.00	0.00
ATOM	3180	HB3	LEU	X	210	29.109	40.147	43.444	0.00	0.00
ATOM	3181	CG	LEU	X	210	30.549	39.186	42.091	0.00	0.00
ATOM	3182	HG	LEU	X	210	31.349	39.426	41.391	0.00	0.00
ATOM	3183	CD1	LEU	X	210	31.274	38.193	43.049	0.00	0.00
ATOM	3184	HD11	LEU	X	210	31.666	37.275	42.610	0.00	0.00
ATOM	3185	HD12	LEU	X	210	32.180	38.583	43.512	0.00	0.00
ATOM	3186	HD13	LEU	X	210	30.590	37.891	43.842	0.00	0.00
ATOM	3187	CD2	LEU	X	210	29.399	38.418	41.401	0.00	0.00
ATOM	3188	HD21	LEU	X	210	29.916	37.620	40.867	0.00	0.00
ATOM	3189	HD22	LEU	X	210	28.597	38.056	42.044	0.00	0.00
ATOM	3190	HD23	LEU	X	210	29.037	39.047	40.588	0.00	0.00
ATOM	3191	C	LEU	X	210	28.755	42.607	42.592	0.00	0.00

ATOM	3192	O	LEU	X	210	27.641	42.268	42.981	0.00	0.00
ATOM	3193	N	SER	X	211	29.289	43.788	42.865	0.00	0.00
ATOM	3194	H	SER	X	211	30.276	43.916	42.695	0.00	0.00
ATOM	3195	CA	SER	X	211	28.594	44.861	43.657	0.00	0.00
ATOM	3196	HA	SER	X	211	27.836	44.264	44.163	0.00	0.00
ATOM	3197	CB	SER	X	211	29.427	45.537	44.719	0.00	0.00
ATOM	3198	HB2	SER	X	211	29.892	44.747	45.309	0.00	0.00
ATOM	3199	HB3	SER	X	211	30.269	46.117	44.341	0.00	0.00
ATOM	3200	OG	SER	X	211	28.586	46.378	45.534	0.00	0.00
ATOM	3201	HG	SER	X	211	27.870	45.860	45.907	0.00	0.00
ATOM	3202	C	SER	X	211	28.009	45.890	42.657	0.00	0.00
ATOM	3203	O	SER	X	211	28.774	46.610	42.019	0.00	0.00
ATOM	3204	N	PRO	X	212	26.641	46.000	42.537	0.00	0.00
ATOM	3205	CD	PRO	X	212	25.672	45.026	43.103	0.00	0.00
ATOM	3206	HD2	PRO	X	212	25.597	45.296	44.156	0.00	0.00
ATOM	3207	HD3	PRO	X	212	25.825	43.952	42.998	0.00	0.00
ATOM	3208	CG	PRO	X	212	24.353	45.278	42.370	0.00	0.00
ATOM	3209	HG2	PRO	X	212	23.426	45.160	42.931	0.00	0.00
ATOM	3210	HG3	PRO	X	212	24.297	44.744	41.421	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.486	46.781	42.031	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.198	47.389	42.887	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.933	47.061	41.134	0.00	0.00
ATOM	3214	CA	PRO	X	212	25.947	46.995	41.667	0.00	0.00
ATOM	3215	HA	PRO	X	212	26.034	46.681	40.627	0.00	0.00
ATOM	3216	C	PRO	X	212	26.539	48.457	41.799	0.00	0.00
ATOM	3217	O	PRO	X	212	26.927	48.953	40.738	0.00	0.00
ATOM	3218	N	PRO	X	213	26.769	49.040	43.031	0.00	0.00
ATOM	3219	CD	PRO	X	213	26.222	48.534	44.289	0.00	0.00
ATOM	3220	HD2	PRO	X	213	26.470	47.482	44.429	0.00	0.00
ATOM	3221	HD3	PRO	X	213	25.148	48.722	44.313	0.00	0.00
ATOM	3222	CG	PRO	X	213	26.892	49.423	45.374	0.00	0.00
ATOM	3223	HG2	PRO	X	213	27.922	49.175	45.630	0.00	0.00
ATOM	3224	HG3	PRO	X	213	26.221	49.425	46.233	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.850	50.799	44.722	0.00	0.00
ATOM	3226	HB2	PRO	X	213	27.408	51.639	45.135	0.00	0.00
ATOM	3227	HB3	PRO	X	213	25.781	51.005	44.678	0.00	0.00
ATOM	3228	CA	PRO	X	213	27.285	50.469	43.239	0.00	0.00
ATOM	3229	HA	PRO	X	213	26.714	51.093	42.550	0.00	0.00
ATOM	3230	C	PRO	X	213	28.866	50.569	43.031	0.00	0.00
ATOM	3231	O	PRO	X	213	29.452	51.652	43.149	0.00	0.00
ATOM	3232	N	SER	X	214	29.504	49.430	42.757	0.00	0.00
ATOM	3233	H	SER	X	214	28.987	48.570	42.638	0.00	0.00
ATOM	3234	CA	SER	X	214	30.787	49.491	41.985	0.00	0.00
ATOM	3235	HA	SER	X	214	31.203	50.498	42.029	0.00	0.00
ATOM	3236	CB	SER	X	214	31.743	48.418	42.505	0.00	0.00
ATOM	3237	HB2	SER	X	214	31.242	47.481	42.752	0.00	0.00
ATOM	3238	HB3	SER	X	214	32.620	48.187	41.900	0.00	0.00
ATOM	3239	OG	SER	X	214	32.255	48.929	43.705	0.00	0.00
ATOM	3240	HG	SER	X	214	33.061	48.457	43.926	0.00	0.00
ATOM	3241	C	SER	X	214	30.694	49.329	40.503	0.00	0.00
ATOM	3242	O	SER	X	214	31.274	50.139	39.806	0.00	0.00
ATOM	3243	N	ARG	X	215	30.023	48.272	39.980	0.00	0.00
ATOM	3244	H	ARG	X	215	29.544	47.758	40.705	0.00	0.00
ATOM	3245	CA	ARG	X	215	29.853	47.930	38.567	0.00	0.00
ATOM	3246	HA	ARG	X	215	30.797	47.689	38.077	0.00	0.00
ATOM	3247	CB	ARG	X	215	28.853	46.697	38.513	0.00	0.00
ATOM	3248	HB2	ARG	X	215	29.198	45.852	39.109	0.00	0.00
ATOM	3249	HB3	ARG	X	215	27.958	46.879	39.108	0.00	0.00
ATOM	3250	CG	ARG	X	215	28.504	46.113	37.169	0.00	0.00
ATOM	3251	HG2	ARG	X	215	27.990	46.843	36.544	0.00	0.00
ATOM	3252	HG3	ARG	X	215	29.428	45.844	36.658	0.00	0.00
ATOM	3253	CD	ARG	X	215	27.634	44.897	37.239	0.00	0.00
ATOM	3254	HD2	ARG	X	215	28.181	44.018	37.582	0.00	0.00
ATOM	3255	HD3	ARG	X	215	26.895	45.174	37.990	0.00	0.00
ATOM	3256	NE	ARG	X	215	26.839	44.681	36.069	0.00	0.00
ATOM	3257	HE	ARG	X	215	26.978	45.410	35.383	0.00	0.00
ATOM	3258	CZ	ARG	X	215	26.096	43.598	35.837	0.00	0.00
ATOM	3259	NH1	ARG	X	215	25.881	42.645	36.728	0.00	0.00
ATOM	3260	HH11	ARG	X	215	26.212	42.656	37.682	0.00	0.00
ATOM	3261	HH12	ARG	X	215	25.373	41.823	36.436	0.00	0.00

ATOM	3262	NH2	ARG	X	215	25.522	43.489	34.694	0.00	0.00
ATOM	3263	HH21	ARG	X	215	25.451	44.342	34.158	0.00	0.00
ATOM	3264	HH22	ARG	X	215	24.912	42.726	34.437	0.00	0.00
ATOM	3265	C	ARG	X	215	29.344	49.179	37.727	0.00	0.00
ATOM	3266	O	ARG	X	215	29.511	49.109	36.491	0.00	0.00
ATOM	3267	N	GLY	X	216	28.829	50.241	38.299	0.00	0.00
ATOM	3268	H	GLY	X	216	28.992	50.267	39.296	0.00	0.00
ATOM	3269	CA	GLY	X	216	28.498	51.553	37.636	0.00	0.00
ATOM	3270	HA2	GLY	X	216	28.017	51.403	36.659	0.00	0.00
ATOM	3271	HA3	GLY	X	216	27.894	52.191	38.247	0.00	0.00
ATOM	3272	C	GLY	X	216	29.678	52.435	37.208	0.00	0.00
ATOM	3273	O	GLY	X	216	29.524	53.427	36.573	0.00	0.00
ATOM	3274	N	LEU	X	217	30.880	52.078	37.599	0.00	0.00
ATOM	3275	H	LEU	X	217	30.909	51.387	38.335	0.00	0.00
ATOM	3276	CA	LEU	X	217	31.998	52.993	37.475	0.00	0.00
ATOM	3277	HA	LEU	X	217	31.670	53.992	37.190	0.00	0.00
ATOM	3278	CB	LEU	X	217	32.657	53.042	38.868	0.00	0.00
ATOM	3279	HB2	LEU	X	217	32.891	52.068	39.296	0.00	0.00
ATOM	3280	HB3	LEU	X	217	33.632	53.530	38.857	0.00	0.00
ATOM	3281	CG	LEU	X	217	31.830	53.719	39.961	0.00	0.00
ATOM	3282	HG	LEU	X	217	30.836	53.274	40.016	0.00	0.00
ATOM	3283	CD1	LEU	X	217	32.450	53.482	41.350	0.00	0.00
ATOM	3284	HD11	LEU	X	217	33.395	54.024	41.382	0.00	0.00
ATOM	3285	HD12	LEU	X	217	31.774	53.870	42.111	0.00	0.00
ATOM	3286	HD13	LEU	X	217	32.617	52.427	41.565	0.00	0.00
ATOM	3287	CD2	LEU	X	217	31.716	55.216	39.732	0.00	0.00
ATOM	3288	HD21	LEU	X	217	32.703	55.600	39.472	0.00	0.00
ATOM	3289	HD22	LEU	X	217	31.025	55.299	38.893	0.00	0.00
ATOM	3290	HD23	LEU	X	217	31.228	55.685	40.586	0.00	0.00
ATOM	3291	C	LEU	X	217	33.094	52.589	36.423	0.00	0.00
ATOM	3292	O	LEU	X	217	34.019	53.424	36.205	0.00	0.00
ATOM	3293	N	PHE	X	218	32.876	51.513	35.674	0.00	0.00
ATOM	3294	H	PHE	X	218	32.029	51.031	35.940	0.00	0.00
ATOM	3295	CA	PHE	X	218	33.731	50.870	34.703	0.00	0.00
ATOM	3296	HA	PHE	X	218	34.286	51.701	34.268	0.00	0.00
ATOM	3297	CB	PHE	X	218	34.792	50.005	35.446	0.00	0.00
ATOM	3298	HB2	PHE	X	218	35.423	49.574	34.668	0.00	0.00
ATOM	3299	HB3	PHE	X	218	35.461	50.656	36.008	0.00	0.00
ATOM	3300	CG	PHE	X	218	34.187	48.841	36.287	0.00	0.00
ATOM	3301	CD1	PHE	X	218	33.903	49.070	37.623	0.00	0.00
ATOM	3302	HD1	PHE	X	218	33.949	50.107	37.920	0.00	0.00
ATOM	3303	CE1	PHE	X	218	33.538	48.023	38.483	0.00	0.00
ATOM	3304	HE1	PHE	X	218	33.317	48.253	39.515	0.00	0.00
ATOM	3305	CZ	PHE	X	218	33.508	46.693	38.048	0.00	0.00
ATOM	3306	HZ	PHE	X	218	33.293	45.831	38.663	0.00	0.00
ATOM	3307	CE2	PHE	X	218	33.856	46.488	36.712	0.00	0.00
ATOM	3308	HE2	PHE	X	218	33.832	45.470	36.353	0.00	0.00
ATOM	3309	CD2	PHE	X	218	34.156	47.528	35.860	0.00	0.00
ATOM	3310	HD2	PHE	X	218	34.439	47.365	34.831	0.00	0.00
ATOM	3311	C	PHE	X	218	32.983	50.051	33.612	0.00	0.00
ATOM	3312	O	PHE	X	218	31.855	49.575	33.830	0.00	0.00
ATOM	3313	N	HIE	X	219	33.664	49.971	32.466	0.00	0.00
ATOM	3314	H	HIE	X	219	34.455	50.598	32.433	0.00	0.00
ATOM	3315	CA	HIE	X	219	33.244	49.331	31.286	0.00	0.00
ATOM	3316	HA	HIE	X	219	32.157	49.311	31.201	0.00	0.00
ATOM	3317	CB	HIE	X	219	33.710	50.232	30.122	0.00	0.00
ATOM	3318	HB2	HIE	X	219	34.788	50.389	30.077	0.00	0.00
ATOM	3319	HB3	HIE	X	219	33.563	49.783	29.140	0.00	0.00
ATOM	3320	CG	HIE	X	219	33.053	51.566	30.162	0.00	0.00
ATOM	3321	ND1	HIE	X	219	33.626	52.617	30.827	0.00	0.00
ATOM	3322	CE1	HIE	X	219	32.633	53.452	31.024	0.00	0.00
ATOM	3323	HE1	HIE	X	219	32.616	54.293	31.701	0.00	0.00
ATOM	3324	NE2	HIE	X	219	31.432	52.958	30.590	0.00	0.00
ATOM	3325	HE2	HIE	X	219	30.508	53.237	30.886	0.00	0.00
ATOM	3326	CD2	HIE	X	219	31.641	51.775	30.045	0.00	0.00
ATOM	3327	HD2	HIE	X	219	30.914	51.103	29.612	0.00	0.00
ATOM	3328	C	HIE	X	219	33.627	47.861	31.089	0.00	0.00
ATOM	3329	O	HIE	X	219	32.855	47.123	30.495	0.00	0.00
ATOM	3330	N	ARG	X	220	34.799	47.461	31.630	0.00	0.00
ATOM	3331	H	ARG	X	220	35.282	48.182	32.145	0.00	0.00

ATOM	3332	CA	ARG	X	220	35.457	46.160	31.400	0.00	0.00
ATOM	3333	HA	ARG	X	220	34.745	45.341	31.300	0.00	0.00
ATOM	3334	CB	ARG	X	220	36.358	46.106	30.184	0.00	0.00
ATOM	3335	HB2	ARG	X	220	37.197	46.763	30.415	0.00	0.00
ATOM	3336	HB3	ARG	X	220	36.743	45.107	29.979	0.00	0.00
ATOM	3337	CG	ARG	X	220	35.723	46.546	28.875	0.00	0.00
ATOM	3338	HG2	ARG	X	220	34.776	46.049	28.665	0.00	0.00
ATOM	3339	HG3	ARG	X	220	35.649	47.633	28.894	0.00	0.00
ATOM	3340	CD	ARG	X	220	36.606	46.207	27.734	0.00	0.00
ATOM	3341	HD2	ARG	X	220	37.574	46.684	27.893	0.00	0.00
ATOM	3342	HD3	ARG	X	220	36.703	45.122	27.730	0.00	0.00
ATOM	3343	NE	ARG	X	220	35.980	46.726	26.528	0.00	0.00
ATOM	3344	HE	ARG	X	220	35.161	46.238	26.195	0.00	0.00
ATOM	3345	CZ	ARG	X	220	36.229	47.872	25.891	0.00	0.00
ATOM	3346	NH1	ARG	X	220	37.033	48.770	26.345	0.00	0.00
ATOM	3347	HH11	ARG	X	220	37.530	48.649	27.216	0.00	0.00
ATOM	3348	HH12	ARG	X	220	37.329	49.476	25.686	0.00	0.00
ATOM	3349	NH2	ARG	X	220	35.601	48.084	24.707	0.00	0.00
ATOM	3350	HH21	ARG	X	220	35.069	47.293	24.374	0.00	0.00
ATOM	3351	HH22	ARG	X	220	35.679	48.862	24.068	0.00	0.00
ATOM	3352	C	ARG	X	220	36.368	45.753	32.677	0.00	0.00
ATOM	3353	O	ARG	X	220	36.828	46.589	33.456	0.00	0.00
ATOM	3354	N	ALA	X	221	36.667	44.459	32.814	0.00	0.00
ATOM	3355	H	ALA	X	221	36.511	43.933	31.967	0.00	0.00
ATOM	3356	CA	ALA	X	221	37.349	43.941	34.018	0.00	0.00
ATOM	3357	HA	ALA	X	221	37.899	44.795	34.414	0.00	0.00
ATOM	3358	CB	ALA	X	221	36.399	43.293	35.086	0.00	0.00
ATOM	3359	HB1	ALA	X	221	35.626	43.912	35.541	0.00	0.00
ATOM	3360	HB2	ALA	X	221	35.857	42.463	34.633	0.00	0.00
ATOM	3361	HB3	ALA	X	221	36.892	42.748	35.892	0.00	0.00
ATOM	3362	C	ALA	X	221	38.341	42.911	33.540	0.00	0.00
ATOM	3363	O	ALA	X	221	38.009	42.085	32.688	0.00	0.00
ATOM	3364	N	VAL	X	222	39.527	42.785	34.147	0.00	0.00
ATOM	3365	H	VAL	X	222	39.691	43.575	34.755	0.00	0.00
ATOM	3366	CA	VAL	X	222	40.639	41.932	33.700	0.00	0.00
ATOM	3367	HA	VAL	X	222	40.300	41.225	32.942	0.00	0.00
ATOM	3368	CB	VAL	X	222	41.798	42.665	33.051	0.00	0.00
ATOM	3369	HB	VAL	X	222	41.921	43.560	33.662	0.00	0.00
ATOM	3370	CG1	VAL	X	222	43.181	41.886	32.860	0.00	0.00
ATOM	3371	HG11	VAL	X	222	43.547	41.427	33.779	0.00	0.00
ATOM	3372	HG12	VAL	X	222	42.927	41.076	32.177	0.00	0.00
ATOM	3373	HG13	VAL	X	222	43.951	42.501	32.394	0.00	0.00
ATOM	3374	CG2	VAL	X	222	41.376	43.168	31.675	0.00	0.00
ATOM	3375	HG21	VAL	X	222	42.167	43.778	31.239	0.00	0.00
ATOM	3376	HG22	VAL	X	222	41.166	42.431	30.900	0.00	0.00
ATOM	3377	HG23	VAL	X	222	40.401	43.655	31.673	0.00	0.00
ATOM	3378	C	VAL	X	222	41.174	41.289	34.958	0.00	0.00
ATOM	3379	O	VAL	X	222	41.748	42.019	35.792	0.00	0.00
ATOM	3380	N	LEU	X	223	40.938	39.992	35.063	0.00	0.00
ATOM	3381	H	LEU	X	223	40.550	39.517	34.261	0.00	0.00
ATOM	3382	CA	LEU	X	223	41.422	39.195	36.136	0.00	0.00
ATOM	3383	HA	LEU	X	223	41.589	39.890	36.958	0.00	0.00
ATOM	3384	CB	LEU	X	223	40.390	38.139	36.592	0.00	0.00
ATOM	3385	HB2	LEU	X	223	40.094	37.499	35.760	0.00	0.00
ATOM	3386	HB3	LEU	X	223	40.779	37.504	37.388	0.00	0.00
ATOM	3387	CG	LEU	X	223	39.130	38.837	37.216	0.00	0.00
ATOM	3388	HG	LEU	X	223	39.473	39.784	37.634	0.00	0.00
ATOM	3389	CD1	LEU	X	223	37.920	39.059	36.212	0.00	0.00
ATOM	3390	HD11	LEU	X	223	38.178	39.720	35.385	0.00	0.00
ATOM	3391	HD12	LEU	X	223	37.461	38.160	35.800	0.00	0.00
ATOM	3392	HD13	LEU	X	223	37.027	39.324	36.778	0.00	0.00
ATOM	3393	CD2	LEU	X	223	38.621	37.948	38.371	0.00	0.00
ATOM	3394	HD21	LEU	X	223	39.297	37.970	39.225	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.636	38.244	38.733	0.00	0.00
ATOM	3396	HD23	LEU	X	223	38.584	36.900	38.072	0.00	0.00
ATOM	3397	C	LEU	X	223	42.812	38.516	35.775	0.00	0.00
ATOM	3398	O	LEU	X	223	42.901	38.037	34.658	0.00	0.00
ATOM	3399	N	GLN	X	224	43.777	38.512	36.702	0.00	0.00
ATOM	3400	H	GLN	X	224	43.595	38.937	37.600	0.00	0.00
ATOM	3401	CA	GLN	X	224	45.048	37.739	36.615	0.00	0.00

ATOM	3402	HA	GLN	X	224	44.832	36.956	35.888	0.00	0.00
ATOM	3403	CB	GLN	X	224	46.135	38.708	36.137	0.00	0.00
ATOM	3404	HB2	GLN	X	224	46.361	39.343	36.994	0.00	0.00
ATOM	3405	HB3	GLN	X	224	46.979	38.052	35.924	0.00	0.00
ATOM	3406	CG	GLN	X	224	45.988	39.532	34.882	0.00	0.00
ATOM	3407	HG2	GLN	X	224	45.597	38.864	34.114	0.00	0.00
ATOM	3408	HG3	GLN	X	224	45.309	40.358	35.093	0.00	0.00
ATOM	3409	CD	GLN	X	224	47.226	40.201	34.273	0.00	0.00
ATOM	3410	OE1	GLN	X	224	47.243	41.339	33.924	0.00	0.00
ATOM	3411	NE2	GLN	X	224	48.273	39.439	34.110	0.00	0.00
ATOM	3412	HE21	GLN	X	224	49.073	39.916	33.719	0.00	0.00
ATOM	3413	HE22	GLN	X	224	48.308	38.540	34.569	0.00	0.00
ATOM	3414	C	GLN	X	224	45.547	37.118	37.996	0.00	0.00
ATOM	3415	O	GLN	X	224	45.288	37.797	39.022	0.00	0.00
ATOM	3416	N	SER	X	225	46.122	35.944	38.039	0.00	0.00
ATOM	3417	H	SER	X	225	46.201	35.461	37.156	0.00	0.00
ATOM	3418	CA	SER	X	225	46.511	35.072	39.167	0.00	0.00
ATOM	3419	HA	SER	X	225	46.453	34.068	38.746	0.00	0.00
ATOM	3420	CB	SER	X	225	47.963	35.331	39.568	0.00	0.00
ATOM	3421	HB2	SER	X	225	48.132	36.400	39.702	0.00	0.00
ATOM	3422	HB3	SER	X	225	48.202	34.830	40.505	0.00	0.00
ATOM	3423	OG	SER	X	225	48.850	35.022	38.539	0.00	0.00
ATOM	3424	HG	SER	X	225	48.865	34.071	38.408	0.00	0.00
ATOM	3425	C	SER	X	225	45.531	35.162	40.455	0.00	0.00
ATOM	3426	O	SER	X	225	45.963	35.071	41.577	0.00	0.00
ATOM	3427	N	GLY	X	226	44.253	35.373	40.236	0.00	0.00
ATOM	3428	H	GLY	X	226	44.020	35.364	39.253	0.00	0.00
ATOM	3429	CA	GLY	X	226	43.318	35.694	41.347	0.00	0.00
ATOM	3430	HA2	GLY	X	226	43.578	35.009	42.157	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.351	36.699	41.676	0.00	0.00
ATOM	3432	C	GLY	X	226	41.821	35.619	40.921	0.00	0.00
ATOM	3433	O	GLY	X	226	41.348	35.540	39.772	0.00	0.00
ATOM	3434	N	ALA	X	227	40.957	35.737	41.999	0.00	0.00
ATOM	3435	H	ALA	X	227	41.321	35.713	42.941	0.00	0.00
ATOM	3436	CA	ALA	X	227	39.477	35.524	41.792	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.272	36.261	41.015	0.00	0.00
ATOM	3438	CB	ALA	X	227	39.115	34.166	41.228	0.00	0.00
ATOM	3439	HB1	ALA	X	227	38.100	34.243	40.837	0.00	0.00
ATOM	3440	HB2	ALA	X	227	39.757	33.954	40.373	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.218	33.328	41.917	0.00	0.00
ATOM	3442	C	ALA	X	227	38.682	35.719	43.132	0.00	0.00
ATOM	3443	O	ALA	X	227	39.152	35.347	44.256	0.00	0.00
ATOM	3444	N	PRO	X	228	37.476	36.374	43.150	0.00	0.00
ATOM	3445	CD	PRO	X	228	36.749	36.798	42.030	0.00	0.00
ATOM	3446	HD2	PRO	X	228	36.647	35.877	41.456	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.209	37.608	41.463	0.00	0.00
ATOM	3448	CG	PRO	X	228	35.360	37.215	42.542	0.00	0.00
ATOM	3449	HG2	PRO	X	228	34.599	36.442	42.434	0.00	0.00
ATOM	3450	HG3	PRO	X	228	35.055	38.068	41.936	0.00	0.00
ATOM	3451	CB	PRO	X	228	35.660	37.680	43.957	0.00	0.00
ATOM	3452	HB2	PRO	X	228	34.813	37.724	44.642	0.00	0.00
ATOM	3453	HB3	PRO	X	228	36.011	38.705	43.847	0.00	0.00
ATOM	3454	CA	PRO	X	228	36.798	36.697	44.368	0.00	0.00
ATOM	3455	HA	PRO	X	228	37.418	37.161	45.135	0.00	0.00
ATOM	3456	C	PRO	X	228	36.119	35.491	44.982	0.00	0.00
ATOM	3457	O	PRO	X	228	35.993	35.382	46.176	0.00	0.00
ATOM	3458	N	ASN	X	229	35.704	34.497	44.134	0.00	0.00
ATOM	3459	H	ASN	X	229	35.709	34.689	43.142	0.00	0.00
ATOM	3460	CA	ASN	X	229	35.189	33.172	44.468	0.00	0.00
ATOM	3461	HA	ASN	X	229	34.623	33.238	45.397	0.00	0.00
ATOM	3462	CB	ASN	X	229	34.242	32.538	43.387	0.00	0.00
ATOM	3463	HB2	ASN	X	229	33.972	31.517	43.657	0.00	0.00
ATOM	3464	HB3	ASN	X	229	33.315	33.101	43.277	0.00	0.00
ATOM	3465	CG	ASN	X	229	34.899	32.450	42.064	0.00	0.00
ATOM	3466	OD1	ASN	X	229	35.312	33.451	41.601	0.00	0.00
ATOM	3467	ND2	ASN	X	229	34.856	31.359	41.225	0.00	0.00
ATOM	3468	HD21	ASN	X	229	35.366	31.465	40.360	0.00	0.00
ATOM	3469	HD22	ASN	X	229	34.425	30.484	41.485	0.00	0.00
ATOM	3470	C	ASN	X	229	36.348	32.195	44.811	0.00	0.00
ATOM	3471	O	ASN	X	229	36.158	30.961	44.773	0.00	0.00

ATOM	3472	N	GLY	X	230	37.526	32.722	45.137	0.00	0.00
ATOM	3473	H	GLY	X	230	37.653	33.718	45.245	0.00	0.00
ATOM	3474	CA	GLY	X	230	38.642	32.083	45.689	0.00	0.00
ATOM	3475	HA2	GLY	X	230	38.759	31.170	45.064	0.00	0.00
ATOM	3476	HA3	GLY	X	230	39.496	32.799	45.767	0.00	0.00
ATOM	3477	C	GLY	X	230	38.368	31.706	47.219	0.00	0.00
ATOM	3478	O	GLY	X	230	37.796	32.557	47.890	0.00	0.00
ATOM	3479	N	PRO	X	231	38.826	30.525	47.642	0.00	0.00
ATOM	3480	CD	PRO	X	231	39.382	29.413	46.830	0.00	0.00
ATOM	3481	HD2	PRO	X	231	40.341	29.629	46.358	0.00	0.00
ATOM	3482	HD3	PRO	X	231	38.579	29.084	46.170	0.00	0.00
ATOM	3483	CG	PRO	X	231	39.587	28.217	47.787	0.00	0.00
ATOM	3484	HG2	PRO	X	231	40.587	28.207	48.222	0.00	0.00
ATOM	3485	HG3	PRO	X	231	39.364	27.272	47.292	0.00	0.00
ATOM	3486	CB	PRO	X	231	38.631	28.560	48.865	0.00	0.00
ATOM	3487	HB2	PRO	X	231	38.824	28.039	49.803	0.00	0.00
ATOM	3488	HB3	PRO	X	231	37.648	28.204	48.556	0.00	0.00
ATOM	3489	CA	PRO	X	231	38.575	30.093	48.994	0.00	0.00
ATOM	3490	HA	PRO	X	231	37.565	30.309	49.340	0.00	0.00
ATOM	3491	C	PRO	X	231	39.505	30.752	50.030	0.00	0.00
ATOM	3492	O	PRO	X	231	39.153	30.918	51.189	0.00	0.00
ATOM	3493	N	TRP	X	232	40.564	31.426	49.551	0.00	0.00
ATOM	3494	H	TRP	X	232	40.836	31.290	48.588	0.00	0.00
ATOM	3495	CA	TRP	X	232	41.407	32.290	50.341	0.00	0.00
ATOM	3496	HA	TRP	X	232	41.680	31.810	51.281	0.00	0.00
ATOM	3497	CB	TRP	X	232	42.802	32.370	49.690	0.00	0.00
ATOM	3498	HB2	TRP	X	232	43.439	32.957	50.353	0.00	0.00
ATOM	3499	HB3	TRP	X	232	43.317	31.410	49.652	0.00	0.00
ATOM	3500	CG	TRP	X	232	42.719	32.936	48.315	0.00	0.00
ATOM	3501	CD1	TRP	X	232	42.579	32.114	47.187	0.00	0.00
ATOM	3502	HD1	TRP	X	232	42.618	31.035	47.147	0.00	0.00
ATOM	3503	NE1	TRP	X	232	42.628	32.871	46.050	0.00	0.00
ATOM	3504	HE1	TRP	X	232	42.659	32.438	45.138	0.00	0.00
ATOM	3505	CE2	TRP	X	232	42.625	34.195	46.356	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	42.716	35.323	45.599	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	42.761	35.217	44.525	0.00	0.00
ATOM	3508	CH2	TRP	X	232	42.738	36.600	46.158	0.00	0.00
ATOM	3509	HH2	TRP	X	232	42.918	37.424	45.483	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	42.798	36.791	47.557	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	43.001	37.769	47.968	0.00	0.00
ATOM	3512	CE3	TRP	X	232	42.774	35.609	48.380	0.00	0.00
ATOM	3513	HE3	TRP	X	232	42.777	35.726	49.454	0.00	0.00
ATOM	3514	CD2	TRP	X	232	42.622	34.259	47.796	0.00	0.00
ATOM	3515	C	TRP	X	232	40.827	33.683	50.654	0.00	0.00
ATOM	3516	O	TRP	X	232	41.317	34.339	51.599	0.00	0.00
ATOM	3517	N	ALA	X	233	39.921	34.114	49.779	0.00	0.00
ATOM	3518	H	ALA	X	233	39.739	33.371	49.119	0.00	0.00
ATOM	3519	CA	ALA	X	233	39.539	35.493	49.363	0.00	0.00
ATOM	3520	HA	ALA	X	233	40.338	36.227	49.462	0.00	0.00
ATOM	3521	CB	ALA	X	233	39.197	35.505	47.854	0.00	0.00
ATOM	3522	HB1	ALA	X	233	38.200	35.089	47.709	0.00	0.00
ATOM	3523	HB2	ALA	X	233	39.295	36.550	47.560	0.00	0.00
ATOM	3524	HB3	ALA	X	233	39.922	34.912	47.298	0.00	0.00
ATOM	3525	C	ALA	X	233	38.325	36.066	50.072	0.00	0.00
ATOM	3526	O	ALA	X	233	38.110	37.253	49.849	0.00	0.00
ATOM	3527	N	THR	X	234	37.630	35.361	50.921	0.00	0.00
ATOM	3528	H	THR	X	234	37.797	34.366	50.962	0.00	0.00
ATOM	3529	CA	THR	X	234	36.474	35.930	51.664	0.00	0.00
ATOM	3530	HA	THR	X	234	36.709	36.932	52.025	0.00	0.00
ATOM	3531	CB	THR	X	234	35.157	35.916	50.852	0.00	0.00
ATOM	3532	HB	THR	X	234	34.717	34.936	51.036	0.00	0.00
ATOM	3533	CG2	THR	X	234	34.196	36.999	51.367	0.00	0.00
ATOM	3534	HG21	THR	X	234	34.688	37.927	51.079	0.00	0.00
ATOM	3535	HG22	THR	X	234	33.301	36.773	50.787	0.00	0.00
ATOM	3536	HG23	THR	X	234	33.985	36.910	52.433	0.00	0.00
ATOM	3537	OG1	THR	X	234	35.403	36.189	49.465	0.00	0.00
ATOM	3538	HG1	THR	X	234	36.014	36.930	49.465	0.00	0.00
ATOM	3539	C	THR	X	234	36.381	35.265	53.007	0.00	0.00
ATOM	3540	O	THR	X	234	36.950	34.177	53.221	0.00	0.00
ATOM	3541	N	VAL	X	235	35.618	35.855	53.950	0.00	0.00

ATOM	3542	H	VAL	X	235	35.367	36.803	53.707	0.00	0.00
ATOM	3543	CA	VAL	X	235	35.286	35.419	55.313	0.00	0.00
ATOM	3544	HA	VAL	X	235	35.264	34.330	55.258	0.00	0.00
ATOM	3545	CB	VAL	X	235	36.334	35.798	56.305	0.00	0.00
ATOM	3546	HB	VAL	X	235	37.304	35.665	55.828	0.00	0.00
ATOM	3547	CG1	VAL	X	235	36.200	37.257	56.692	0.00	0.00
ATOM	3548	HG11	VAL	X	235	35.831	37.802	55.823	0.00	0.00
ATOM	3549	HG12	VAL	X	235	35.522	37.392	57.535	0.00	0.00
ATOM	3550	HG13	VAL	X	235	37.136	37.710	57.018	0.00	0.00
ATOM	3551	CG2	VAL	X	235	36.390	34.847	57.511	0.00	0.00
ATOM	3552	HG21	VAL	X	235	35.486	35.031	58.092	0.00	0.00
ATOM	3553	HG22	VAL	X	235	36.484	33.826	57.141	0.00	0.00
ATOM	3554	HG23	VAL	X	235	37.214	35.161	58.152	0.00	0.00
ATOM	3555	C	VAL	X	235	33.911	35.829	55.757	0.00	0.00
ATOM	3556	O	VAL	X	235	33.281	36.647	55.118	0.00	0.00
ATOM	3557	N	GLY	X	236	33.425	35.299	56.918	0.00	0.00
ATOM	3558	H	GLY	X	236	33.924	34.600	57.450	0.00	0.00
ATOM	3559	CA	GLY	X	236	32.128	35.737	57.487	0.00	0.00
ATOM	3560	HA2	GLY	X	236	31.649	36.550	56.857	0.00	0.00
ATOM	3561	HA3	GLY	X	236	31.525	34.801	57.441	0.00	0.00
ATOM	3562	C	GLY	X	236	32.220	36.176	58.972	0.00	0.00
ATOM	3563	O	GLY	X	236	33.262	36.145	59.617	0.00	0.00
ATOM	3564	N	MET	X	237	31.126	36.699	59.457	0.00	0.00
ATOM	3565	H	MET	X	237	30.251	36.665	58.953	0.00	0.00
ATOM	3566	CA	MET	X	237	31.122	37.614	60.706	0.00	0.00
ATOM	3567	HA	MET	X	237	31.800	38.439	60.487	0.00	0.00
ATOM	3568	CB	MET	X	237	29.685	38.153	60.921	0.00	0.00
ATOM	3569	HB2	MET	X	237	29.018	37.291	60.883	0.00	0.00
ATOM	3570	HB3	MET	X	237	29.607	38.749	61.830	0.00	0.00
ATOM	3571	CG	MET	X	237	29.371	39.158	59.836	0.00	0.00
ATOM	3572	HG2	MET	X	237	29.900	38.852	58.934	0.00	0.00
ATOM	3573	HG3	MET	X	237	28.308	39.204	59.600	0.00	0.00
ATOM	3574	SD	MET	X	237	29.956	40.861	60.193	0.00	0.00
ATOM	3575	CE	MET	X	237	29.976	41.507	58.455	0.00	0.00
ATOM	3576	HE1	MET	X	237	28.955	41.777	58.185	0.00	0.00
ATOM	3577	HE2	MET	X	237	30.535	42.443	58.435	0.00	0.00
ATOM	3578	HE3	MET	X	237	30.503	40.709	57.932	0.00	0.00
ATOM	3579	C	MET	X	237	31.622	36.961	62.028	0.00	0.00
ATOM	3580	O	MET	X	237	32.176	37.700	62.862	0.00	0.00
ATOM	3581	N	GLY	X	238	31.444	35.636	62.141	0.00	0.00
ATOM	3582	H	GLY	X	238	31.180	35.091	61.332	0.00	0.00
ATOM	3583	CA	GLY	X	238	31.930	34.820	63.252	0.00	0.00
ATOM	3584	HA2	GLY	X	238	31.562	35.152	64.278	0.00	0.00
ATOM	3585	HA3	GLY	X	238	31.527	33.827	63.119	0.00	0.00
ATOM	3586	C	GLY	X	238	33.477	34.859	63.326	0.00	0.00
ATOM	3587	O	GLY	X	238	34.071	35.347	64.251	0.00	0.00
ATOM	3588	N	GLU	X	239	34.166	34.533	62.252	0.00	0.00
ATOM	3589	H	GLU	X	239	33.709	34.127	61.448	0.00	0.00
ATOM	3590	CA	GLU	X	239	35.631	34.707	62.140	0.00	0.00
ATOM	3591	HA	GLU	X	239	36.083	34.188	62.985	0.00	0.00
ATOM	3592	CB	GLU	X	239	36.126	33.983	60.856	0.00	0.00
ATOM	3593	HB2	GLU	X	239	35.306	33.956	60.138	0.00	0.00
ATOM	3594	HB3	GLU	X	239	36.973	34.514	60.422	0.00	0.00
ATOM	3595	CG	GLU	X	239	36.382	32.540	61.066	0.00	0.00
ATOM	3596	HG2	GLU	X	239	35.598	31.990	61.585	0.00	0.00
ATOM	3597	HG3	GLU	X	239	36.337	31.988	60.127	0.00	0.00
ATOM	3598	CD	GLU	X	239	37.704	32.349	61.785	0.00	0.00
ATOM	3599	OE1	GLU	X	239	37.686	31.917	62.935	0.00	0.00
ATOM	3600	OE2	GLU	X	239	38.826	32.650	61.263	0.00	0.00
ATOM	3601	C	GLU	X	239	36.111	36.154	62.161	0.00	0.00
ATOM	3602	O	GLU	X	239	37.195	36.401	62.642	0.00	0.00
ATOM	3603	N	ALA	X	240	35.327	37.187	61.706	0.00	0.00
ATOM	3604	H	ALA	X	240	34.459	36.930	61.258	0.00	0.00
ATOM	3605	CA	ALA	X	240	35.619	38.584	61.804	0.00	0.00
ATOM	3606	HA	ALA	X	240	36.599	38.864	61.417	0.00	0.00
ATOM	3607	CB	ALA	X	240	34.729	39.360	60.752	0.00	0.00
ATOM	3608	HB1	ALA	X	240	34.691	40.443	60.871	0.00	0.00
ATOM	3609	HB2	ALA	X	240	35.115	39.109	59.764	0.00	0.00
ATOM	3610	HB3	ALA	X	240	33.729	38.941	60.864	0.00	0.00
ATOM	3611	C	ALA	X	240	35.578	38.973	63.353	0.00	0.00

ATOM	3612	O	ALA	X	240	36.463	39.650	63.915	0.00	0.00
ATOM	3613	N	ARG	X	241	34.604	38.387	64.017	0.00	0.00
ATOM	3614	H	ARG	X	241	33.901	37.840	63.542	0.00	0.00
ATOM	3615	CA	ARG	X	241	34.456	38.653	65.438	0.00	0.00
ATOM	3616	HA	ARG	X	241	34.438	39.735	65.564	0.00	0.00
ATOM	3617	CB	ARG	X	241	33.202	38.069	65.952	0.00	0.00
ATOM	3618	HB2	ARG	X	241	32.395	38.402	65.300	0.00	0.00
ATOM	3619	HB3	ARG	X	241	33.207	36.980	65.903	0.00	0.00
ATOM	3620	CG	ARG	X	241	32.903	38.520	67.390	0.00	0.00
ATOM	3621	HG2	ARG	X	241	33.759	38.369	68.047	0.00	0.00
ATOM	3622	HG3	ARG	X	241	32.792	39.601	67.311	0.00	0.00
ATOM	3623	CD	ARG	X	241	31.570	37.932	67.942	0.00	0.00
ATOM	3624	HD2	ARG	X	241	30.861	37.833	67.119	0.00	0.00
ATOM	3625	HD3	ARG	X	241	31.821	36.937	68.309	0.00	0.00
ATOM	3626	NE	ARG	X	241	30.984	38.789	68.957	0.00	0.00
ATOM	3627	HE	ARG	X	241	31.650	39.307	69.512	0.00	0.00
ATOM	3628	CZ	ARG	X	241	29.732	39.037	69.168	0.00	0.00
ATOM	3629	NH1	ARG	X	241	28.722	38.276	68.842	0.00	0.00
ATOM	3630	HH11	ARG	X	241	28.854	37.483	68.231	0.00	0.00
ATOM	3631	HH12	ARG	X	241	27.789	38.492	69.165	0.00	0.00
ATOM	3632	NH2	ARG	X	241	29.454	40.088	69.874	0.00	0.00
ATOM	3633	HH21	ARG	X	241	30.166	40.576	70.398	0.00	0.00
ATOM	3634	HH22	ARG	X	241	28.467	40.281	69.962	0.00	0.00
ATOM	3635	C	ARG	X	241	35.609	38.184	66.279	0.00	0.00
ATOM	3636	O	ARG	X	241	36.088	38.980	67.064	0.00	0.00
ATOM	3637	N	ARG	X	242	35.965	36.906	66.022	0.00	0.00
ATOM	3638	H	ARG	X	242	35.459	36.417	65.298	0.00	0.00
ATOM	3639	CA	ARG	X	242	37.162	36.247	66.555	0.00	0.00
ATOM	3640	HA	ARG	X	242	37.190	36.230	67.644	0.00	0.00
ATOM	3641	CB	ARG	X	242	37.280	34.779	66.117	0.00	0.00
ATOM	3642	HB2	ARG	X	242	36.391	34.314	66.544	0.00	0.00
ATOM	3643	HB3	ARG	X	242	37.326	34.819	65.029	0.00	0.00
ATOM	3644	CG	ARG	X	242	38.509	34.125	66.728	0.00	0.00
ATOM	3645	HG2	ARG	X	242	39.383	34.765	66.605	0.00	0.00
ATOM	3646	HG3	ARG	X	242	38.442	34.150	67.816	0.00	0.00
ATOM	3647	CD	ARG	X	242	38.973	32.767	66.210	0.00	0.00
ATOM	3648	HD2	ARG	X	242	39.771	32.363	66.832	0.00	0.00
ATOM	3649	HD3	ARG	X	242	38.053	32.182	66.222	0.00	0.00
ATOM	3650	NE	ARG	X	242	39.397	32.906	64.771	0.00	0.00
ATOM	3651	HE	ARG	X	242	38.658	32.646	64.133	0.00	0.00
ATOM	3652	CZ	ARG	X	242	40.650	33.075	64.288	0.00	0.00
ATOM	3653	NH1	ARG	X	242	41.701	33.271	65.080	0.00	0.00
ATOM	3654	HH11	ARG	X	242	41.495	33.602	66.012	0.00	0.00
ATOM	3655	HH12	ARG	X	242	42.666	33.215	64.788	0.00	0.00
ATOM	3656	NH2	ARG	X	242	40.816	32.997	63.007	0.00	0.00
ATOM	3657	HH21	ARG	X	242	40.002	32.761	62.457	0.00	0.00
ATOM	3658	HH22	ARG	X	242	41.711	33.312	62.660	0.00	0.00
ATOM	3659	C	ARG	X	242	38.437	37.078	66.353	0.00	0.00
ATOM	3660	O	ARG	X	242	38.985	37.613	67.348	0.00	0.00
ATOM	3661	N	ARG	X	243	38.722	37.282	65.086	0.00	0.00
ATOM	3662	H	ARG	X	243	38.263	36.785	64.336	0.00	0.00
ATOM	3663	CA	ARG	X	243	39.935	38.017	64.693	0.00	0.00
ATOM	3664	HA	ARG	X	243	40.790	37.496	65.123	0.00	0.00
ATOM	3665	CB	ARG	X	243	39.979	38.046	63.223	0.00	0.00
ATOM	3666	HB2	ARG	X	243	38.957	38.279	62.925	0.00	0.00
ATOM	3667	HB3	ARG	X	243	40.652	38.820	62.852	0.00	0.00
ATOM	3668	CG	ARG	X	243	40.258	36.650	62.658	0.00	0.00
ATOM	3669	HG2	ARG	X	243	41.250	36.337	62.983	0.00	0.00
ATOM	3670	HG3	ARG	X	243	39.531	35.909	62.988	0.00	0.00
ATOM	3671	CD	ARG	X	243	40.158	36.687	61.090	0.00	0.00
ATOM	3672	HD2	ARG	X	243	39.332	37.316	60.759	0.00	0.00
ATOM	3673	HD3	ARG	X	243	41.181	36.963	60.833	0.00	0.00
ATOM	3674	NE	ARG	X	243	39.941	35.301	60.630	0.00	0.00
ATOM	3675	HE	ARG	X	243	39.484	34.675	61.277	0.00	0.00
ATOM	3676	CZ	ARG	X	243	40.193	34.941	59.363	0.00	0.00
ATOM	3677	NH1	ARG	X	243	40.713	35.747	58.520	0.00	0.00
ATOM	3678	HH11	ARG	X	243	41.058	36.661	58.774	0.00	0.00
ATOM	3679	HH12	ARG	X	243	40.846	35.368	57.593	0.00	0.00
ATOM	3680	NH2	ARG	X	243	39.884	33.767	58.976	0.00	0.00
ATOM	3681	HH21	ARG	X	243	39.538	33.105	59.655	0.00	0.00

ATOM	3682	HH22	ARG	X	243	40.082	33.500	58.022	0.00	0.00
ATOM	3683	C	ARG	X	243	40.036	39.432	65.229	0.00	0.00
ATOM	3684	O	ARG	X	243	41.119	39.908	65.580	0.00	0.00
ATOM	3685	N	ALA	X	244	38.872	40.172	65.294	0.00	0.00
ATOM	3686	H	ALA	X	244	38.023	39.723	64.980	0.00	0.00
ATOM	3687	CA	ALA	X	244	38.752	41.409	66.074	0.00	0.00
ATOM	3688	HA	ALA	X	244	39.445	42.174	65.723	0.00	0.00
ATOM	3689	CB	ALA	X	244	37.358	41.987	65.851	0.00	0.00
ATOM	3690	HB1	ALA	X	244	37.114	42.149	64.801	0.00	0.00
ATOM	3691	HB2	ALA	X	244	36.622	41.371	66.368	0.00	0.00
ATOM	3692	HB3	ALA	X	244	37.272	42.950	66.355	0.00	0.00
ATOM	3693	C	ALA	X	244	39.114	41.397	67.574	0.00	0.00
ATOM	3694	O	ALA	X	244	40.070	42.061	67.975	0.00	0.00
ATOM	3695	N	THR	X	245	38.459	40.521	68.341	0.00	0.00
ATOM	3696	H	THR	X	245	37.750	39.951	67.903	0.00	0.00
ATOM	3697	CA	THR	X	245	38.781	40.217	69.796	0.00	0.00
ATOM	3698	HA	THR	X	245	38.566	41.174	70.271	0.00	0.00
ATOM	3699	CB	THR	X	245	37.771	39.140	70.332	0.00	0.00
ATOM	3700	HB	THR	X	245	37.979	38.176	69.868	0.00	0.00
ATOM	3701	CG2	THR	X	245	37.926	38.952	71.852	0.00	0.00
ATOM	3702	HG21	THR	X	245	36.943	38.680	72.235	0.00	0.00
ATOM	3703	HG22	THR	X	245	38.619	38.168	72.159	0.00	0.00
ATOM	3704	HG23	THR	X	245	38.254	39.886	72.310	0.00	0.00
ATOM	3705	OG1	THR	X	245	36.433	39.559	70.081	0.00	0.00
ATOM	3706	HG1	THR	X	245	35.940	38.766	69.860	0.00	0.00
ATOM	3707	C	THR	X	245	40.290	39.868	70.040	0.00	0.00
ATOM	3708	O	THR	X	245	40.751	40.357	71.044	0.00	0.00
ATOM	3709	N	GLN	X	246	40.904	39.124	69.081	0.00	0.00
ATOM	3710	H	GLN	X	246	40.275	38.952	68.310	0.00	0.00
ATOM	3711	CA	GLN	X	246	42.240	38.621	69.138	0.00	0.00
ATOM	3712	HA	GLN	X	246	42.507	38.523	70.190	0.00	0.00
ATOM	3713	CB	GLN	X	246	42.365	37.235	68.568	0.00	0.00
ATOM	3714	HB2	GLN	X	246	42.118	37.244	67.506	0.00	0.00
ATOM	3715	HB3	GLN	X	246	43.404	37.008	68.805	0.00	0.00
ATOM	3716	CG	GLN	X	246	41.500	36.223	69.298	0.00	0.00
ATOM	3717	HG2	GLN	X	246	41.752	36.309	70.355	0.00	0.00
ATOM	3718	HG3	GLN	X	246	40.461	36.418	69.034	0.00	0.00
ATOM	3719	CD	GLN	X	246	41.840	34.811	68.854	0.00	0.00
ATOM	3720	OE1	GLN	X	246	41.720	34.482	67.672	0.00	0.00
ATOM	3721	NE2	GLN	X	246	42.092	33.888	69.695	0.00	0.00
ATOM	3722	HE21	GLN	X	246	41.875	33.014	69.238	0.00	0.00
ATOM	3723	HE22	GLN	X	246	41.872	34.006	70.673	0.00	0.00
ATOM	3724	C	GLN	X	246	43.307	39.655	68.605	0.00	0.00
ATOM	3725	O	GLN	X	246	44.442	39.530	69.059	0.00	0.00
ATOM	3726	N	LEU	X	247	42.971	40.715	67.824	0.00	0.00
ATOM	3727	H	LEU	X	247	41.987	40.882	67.666	0.00	0.00
ATOM	3728	CA	LEU	X	247	43.929	41.823	67.726	0.00	0.00
ATOM	3729	HA	LEU	X	247	44.960	41.553	67.497	0.00	0.00
ATOM	3730	CB	LEU	X	247	43.525	42.587	66.464	0.00	0.00
ATOM	3731	HB2	LEU	X	247	43.414	41.890	65.633	0.00	0.00
ATOM	3732	HB3	LEU	X	247	42.539	42.995	66.684	0.00	0.00
ATOM	3733	CG	LEU	X	247	44.479	43.697	65.999	0.00	0.00
ATOM	3734	HG	LEU	X	247	44.374	44.569	66.645	0.00	0.00
ATOM	3735	CD1	LEU	X	247	45.885	43.113	65.889	0.00	0.00
ATOM	3736	HD11	LEU	X	247	46.379	43.110	66.861	0.00	0.00
ATOM	3737	HD12	LEU	X	247	45.882	42.121	65.437	0.00	0.00
ATOM	3738	HD13	LEU	X	247	46.521	43.758	65.283	0.00	0.00
ATOM	3739	CD2	LEU	X	247	44.003	44.028	64.556	0.00	0.00
ATOM	3740	HD21	LEU	X	247	44.199	43.297	63.771	0.00	0.00
ATOM	3741	HD22	LEU	X	247	42.916	44.077	64.622	0.00	0.00
ATOM	3742	HD23	LEU	X	247	44.330	45.010	64.213	0.00	0.00
ATOM	3743	C	LEU	X	247	43.828	42.708	68.952	0.00	0.00
ATOM	3744	O	LEU	X	247	44.830	43.079	69.556	0.00	0.00
ATOM	3745	N	ALA	X	248	42.559	42.980	69.342	0.00	0.00
ATOM	3746	H	ALA	X	248	41.800	42.649	68.764	0.00	0.00
ATOM	3747	CA	ALA	X	248	42.210	43.735	70.531	0.00	0.00
ATOM	3748	HA	ALA	X	248	42.605	44.733	70.343	0.00	0.00
ATOM	3749	CB	ALA	X	248	40.712	43.758	70.542	0.00	0.00
ATOM	3750	HB1	ALA	X	248	40.285	44.087	69.594	0.00	0.00
ATOM	3751	HB2	ALA	X	248	40.171	42.883	70.902	0.00	0.00

ATOM	3752	HB3	ALA	X	248	40.502	44.535	71.277	0.00	0.00
ATOM	3753	C	ALA	X	248	42.851	43.208	71.821	0.00	0.00
ATOM	3754	O	ALA	X	248	43.374	43.972	72.669	0.00	0.00
ATOM	3755	N	HIE	X	249	42.852	41.935	72.023	0.00	0.00
ATOM	3756	H	HIE	X	249	42.435	41.444	71.244	0.00	0.00
ATOM	3757	CA	HIE	X	249	43.604	41.176	73.017	0.00	0.00
ATOM	3758	HA	HIE	X	249	43.010	41.230	73.930	0.00	0.00
ATOM	3759	CB	HIE	X	249	43.608	39.679	72.707	0.00	0.00
ATOM	3760	HB2	HIE	X	249	42.564	39.367	72.686	0.00	0.00
ATOM	3761	HB3	HIE	X	249	44.042	39.389	71.750	0.00	0.00
ATOM	3762	CG	HIE	X	249	44.301	38.877	73.760	0.00	0.00
ATOM	3763	ND1	HIE	X	249	45.097	37.747	73.421	0.00	0.00
ATOM	3764	CE1	HIE	X	249	45.370	37.143	74.604	0.00	0.00
ATOM	3765	HE1	HIE	X	249	45.967	36.255	74.750	0.00	0.00
ATOM	3766	NE2	HIE	X	249	44.845	37.858	75.622	0.00	0.00
ATOM	3767	HE2	HIE	X	249	44.957	37.535	76.573	0.00	0.00
ATOM	3768	CD2	HIE	X	249	44.199	38.937	75.100	0.00	0.00
ATOM	3769	HD2	HIE	X	249	43.562	39.655	75.595	0.00	0.00
ATOM	3770	C	HIE	X	249	45.042	41.676	73.227	0.00	0.00
ATOM	3771	O	HIE	X	249	45.379	42.141	74.339	0.00	0.00
ATOM	3772	N	LEU	X	250	45.857	41.614	72.112	0.00	0.00
ATOM	3773	H	LEU	X	250	45.417	41.232	71.287	0.00	0.00
ATOM	3774	CA	LEU	X	250	47.271	41.898	72.029	0.00	0.00
ATOM	3775	HA	LEU	X	250	47.687	41.429	72.920	0.00	0.00
ATOM	3776	CB	LEU	X	250	47.813	41.211	70.750	0.00	0.00
ATOM	3777	HB2	LEU	X	250	47.257	41.571	69.884	0.00	0.00
ATOM	3778	HB3	LEU	X	250	48.855	41.511	70.636	0.00	0.00
ATOM	3779	CG	LEU	X	250	47.846	39.691	70.672	0.00	0.00
ATOM	3780	HG	LEU	X	250	46.846	39.308	70.874	0.00	0.00
ATOM	3781	CD1	LEU	X	250	48.392	39.275	69.274	0.00	0.00
ATOM	3782	HD11	LEU	X	250	48.058	39.871	68.425	0.00	0.00
ATOM	3783	HD12	LEU	X	250	49.478	39.334	69.346	0.00	0.00
ATOM	3784	HD13	LEU	X	250	48.203	38.204	69.189	0.00	0.00
ATOM	3785	CD2	LEU	X	250	48.730	39.141	71.800	0.00	0.00
ATOM	3786	HD21	LEU	X	250	48.229	39.154	72.768	0.00	0.00
ATOM	3787	HD22	LEU	X	250	48.821	38.087	71.535	0.00	0.00
ATOM	3788	HD23	LEU	X	250	49.681	39.655	71.934	0.00	0.00
ATOM	3789	C	LEU	X	250	47.478	43.423	72.149	0.00	0.00
ATOM	3790	O	LEU	X	250	48.269	43.818	72.974	0.00	0.00
ATOM	3791	N	VAL	X	251	46.723	44.175	71.421	0.00	0.00
ATOM	3792	H	VAL	X	251	45.988	43.693	70.923	0.00	0.00
ATOM	3793	CA	VAL	X	251	46.773	45.692	71.375	0.00	0.00
ATOM	3794	HA	VAL	X	251	47.810	45.945	71.154	0.00	0.00
ATOM	3795	CB	VAL	X	251	45.858	46.252	70.279	0.00	0.00
ATOM	3796	HB	VAL	X	251	44.868	45.917	70.591	0.00	0.00
ATOM	3797	CG1	VAL	X	251	45.849	47.806	70.265	0.00	0.00
ATOM	3798	HG11	VAL	X	251	46.851	48.214	70.395	0.00	0.00
ATOM	3799	HG12	VAL	X	251	45.340	48.020	69.325	0.00	0.00
ATOM	3800	HG13	VAL	X	251	45.168	48.213	71.012	0.00	0.00
ATOM	3801	CG2	VAL	X	251	46.311	45.808	68.896	0.00	0.00
ATOM	3802	HG21	VAL	X	251	45.619	45.967	68.068	0.00	0.00
ATOM	3803	HG22	VAL	X	251	47.183	46.422	68.672	0.00	0.00
ATOM	3804	HG23	VAL	X	251	46.718	44.797	68.887	0.00	0.00
ATOM	3805	C	VAL	X	251	46.509	46.504	72.689	0.00	0.00
ATOM	3806	O	VAL	X	251	47.048	47.585	72.957	0.00	0.00
ATOM	3807	N	GLY	X	252	45.820	45.866	73.663	0.00	0.00
ATOM	3808	H	GLY	X	252	45.315	45.020	73.441	0.00	0.00
ATOM	3809	CA	GLY	X	252	45.584	46.426	75.036	0.00	0.00
ATOM	3810	HA2	GLY	X	252	45.693	45.583	75.667	0.00	0.00
ATOM	3811	HA3	GLY	X	252	46.382	47.256	75.213	0.00	0.00
ATOM	3812	C	GLY	X	252	44.150	46.845	75.251	0.00	0.00
ATOM	3813	O	GLY	X	252	43.914	47.755	76.036	0.00	0.00
ATOM	3814	N	CYX	X	253	43.230	46.255	74.442	0.00	0.00
ATOM	3815	H	CYX	X	253	43.602	45.522	73.855	0.00	0.00
ATOM	3816	CA	CYX	X	253	41.816	46.531	74.451	0.00	0.00
ATOM	3817	HA	CYX	X	253	41.585	47.332	75.153	0.00	0.00
ATOM	3818	CB	CYX	X	253	41.479	46.858	72.997	0.00	0.00
ATOM	3819	HB2	CYX	X	253	41.509	45.991	72.337	0.00	0.00
ATOM	3820	HB3	CYX	X	253	40.422	47.084	73.138	0.00	0.00
ATOM	3821	SG	CYX	X	253	42.441	48.236	72.354	0.00	0.00

ATOM	3822	C	CYX	X	253	40.993	45.266	74.815	0.00	0.00
ATOM	3823	O	CYX	X	253	40.755	44.403	73.948	0.00	0.00
ATOM	3824	N	PRO	X	254	40.472	45.235	76.052	0.00	0.00
ATOM	3825	CD	PRO	X	254	39.572	44.202	76.510	0.00	0.00
ATOM	3826	HD2	PRO	X	254	40.092	43.249	76.410	0.00	0.00
ATOM	3827	HD3	PRO	X	254	38.621	44.065	75.995	0.00	0.00
ATOM	3828	CG	PRO	X	254	39.323	44.418	78.015	0.00	0.00
ATOM	3829	HG2	PRO	X	254	40.214	43.960	78.444	0.00	0.00
ATOM	3830	HG3	PRO	X	254	38.368	44.030	78.370	0.00	0.00
ATOM	3831	CB	PRO	X	254	39.572	45.885	78.164	0.00	0.00
ATOM	3832	HB2	PRO	X	254	39.799	46.089	79.211	0.00	0.00
ATOM	3833	HB3	PRO	X	254	38.656	46.353	77.803	0.00	0.00
ATOM	3834	CA	PRO	X	254	40.782	46.102	77.225	0.00	0.00
ATOM	3835	HA	PRO	X	254	40.741	47.144	76.908	0.00	0.00
ATOM	3836	C	PRO	X	254	42.105	45.689	77.909	0.00	0.00
ATOM	3837	O	PRO	X	254	42.552	44.553	77.728	0.00	0.00
ATOM	3838	N	PRO	X	255	42.704	46.595	78.734	0.00	0.00
ATOM	3839	CD	PRO	X	255	42.101	47.913	79.038	0.00	0.00
ATOM	3840	HD2	PRO	X	255	41.158	47.866	79.583	0.00	0.00
ATOM	3841	HD3	PRO	X	255	41.965	48.409	78.077	0.00	0.00
ATOM	3842	CG	PRO	X	255	43.143	48.682	79.814	0.00	0.00
ATOM	3843	HG2	PRO	X	255	42.647	49.154	80.663	0.00	0.00
ATOM	3844	HG3	PRO	X	255	43.552	49.466	79.176	0.00	0.00
ATOM	3845	CB	PRO	X	255	44.106	47.627	80.317	0.00	0.00
ATOM	3846	HB2	PRO	X	255	43.839	47.456	81.360	0.00	0.00
ATOM	3847	HB3	PRO	X	255	45.118	48.018	80.218	0.00	0.00
ATOM	3848	CA	PRO	X	255	43.905	46.382	79.477	0.00	0.00
ATOM	3849	HA	PRO	X	255	44.745	46.305	78.787	0.00	0.00
ATOM	3850	C	PRO	X	255	43.774	45.075	80.364	0.00	0.00
ATOM	3851	O	PRO	X	255	42.705	44.902	80.915	0.00	0.00
ATOM	3852	N	GLY	X	256	44.820	44.251	80.475	0.00	0.00
ATOM	3853	H	GLY	X	256	45.552	44.241	79.778	0.00	0.00
ATOM	3854	CA	GLY	X	256	44.648	43.116	81.344	0.00	0.00
ATOM	3855	HA2	GLY	X	256	45.620	42.581	81.534	0.00	0.00
ATOM	3856	HA3	GLY	X	256	44.222	43.575	82.227	0.00	0.00
ATOM	3857	C	GLY	X	256	43.580	42.111	80.966	0.00	0.00
ATOM	3858	O	GLY	X	256	43.260	41.295	81.810	0.00	0.00
ATOM	3859	N	GLY	X	257	42.817	42.221	79.794	0.00	0.00
ATOM	3860	H	GLY	X	257	43.023	42.940	79.115	0.00	0.00
ATOM	3861	CA	GLY	X	257	41.634	41.427	79.563	0.00	0.00
ATOM	3862	HA2	GLY	X	257	41.614	40.455	80.058	0.00	0.00
ATOM	3863	HA3	GLY	X	257	40.791	41.950	79.999	0.00	0.00
ATOM	3864	C	GLY	X	257	41.360	41.185	78.033	0.00	0.00
ATOM	3865	O	GLY	X	257	42.110	41.591	77.154	0.00	0.00
ATOM	3866	N	THR	X	258	40.226	40.502	77.810	0.00	0.00
ATOM	3867	H	THR	X	258	39.769	40.024	78.574	0.00	0.00
ATOM	3868	CA	THR	X	258	39.745	40.228	76.432	0.00	0.00
ATOM	3869	HA	THR	X	258	40.240	40.832	75.671	0.00	0.00
ATOM	3870	CB	THR	X	258	39.866	38.720	76.126	0.00	0.00
ATOM	3871	HB	THR	X	258	39.088	38.246	76.724	0.00	0.00
ATOM	3872	CG2	THR	X	258	39.743	38.409	74.651	0.00	0.00
ATOM	3873	HG21	THR	X	258	39.844	39.394	74.195	0.00	0.00
ATOM	3874	HG22	THR	X	258	40.594	37.823	74.304	0.00	0.00
ATOM	3875	HG23	THR	X	258	38.776	38.006	74.348	0.00	0.00
ATOM	3876	OG1	THR	X	258	41.102	38.270	76.425	0.00	0.00
ATOM	3877	HG1	THR	X	258	41.632	38.044	75.657	0.00	0.00
ATOM	3878	C	THR	X	258	38.276	40.437	76.354	0.00	0.00
ATOM	3879	O	THR	X	258	37.577	40.129	77.304	0.00	0.00
ATOM	3880	N	GLY	X	259	37.745	41.145	75.376	0.00	0.00
ATOM	3881	H	GLY	X	259	38.415	41.514	74.717	0.00	0.00
ATOM	3882	CA	GLY	X	259	36.310	41.431	75.246	0.00	0.00
ATOM	3883	HA2	GLY	X	259	36.212	41.764	74.234	0.00	0.00
ATOM	3884	HA3	GLY	X	259	35.695	40.562	75.465	0.00	0.00
ATOM	3885	C	GLY	X	259	35.797	42.597	75.977	0.00	0.00
ATOM	3886	O	GLY	X	259	36.229	43.733	75.646	0.00	0.00
ATOM	3887	N	GLY	X	260	34.809	42.268	76.865	0.00	0.00
ATOM	3888	H	GLY	X	260	34.533	41.303	76.979	0.00	0.00
ATOM	3889	CA	GLY	X	260	33.986	43.373	77.462	0.00	0.00
ATOM	3890	HA2	GLY	X	260	33.516	43.193	78.396	0.00	0.00
ATOM	3891	HA3	GLY	X	260	34.741	44.228	77.630	0.00	0.00

ATOM	3892	C	GLY	X	260	32.933	43.868	76.510	0.00	0.00
ATOM	3893	O	GLY	X	260	32.534	43.175	75.549	0.00	0.00
ATOM	3894	N	ASN	X	261	32.627	45.125	76.603	0.00	0.00
ATOM	3895	H	ASN	X	261	33.188	45.673	77.240	0.00	0.00
ATOM	3896	CA	ASN	X	261	31.731	45.856	75.688	0.00	0.00
ATOM	3897	HA	ASN	X	261	30.776	45.354	75.535	0.00	0.00
ATOM	3898	CB	ASN	X	261	31.363	47.213	76.305	0.00	0.00
ATOM	3899	HB2	ASN	X	261	30.704	47.105	77.167	0.00	0.00
ATOM	3900	HB3	ASN	X	261	32.289	47.738	76.543	0.00	0.00
ATOM	3901	CG	ASN	X	261	30.568	48.034	75.360	0.00	0.00
ATOM	3902	OD1	ASN	X	261	31.071	48.782	74.512	0.00	0.00
ATOM	3903	ND2	ASN	X	261	29.228	47.966	75.381	0.00	0.00
ATOM	3904	HD21	ASN	X	261	28.696	48.393	74.636	0.00	0.00
ATOM	3905	HD22	ASN	X	261	28.680	47.306	75.915	0.00	0.00
ATOM	3906	C	ASN	X	261	32.406	46.118	74.285	0.00	0.00
ATOM	3907	O	ASN	X	261	33.598	46.543	74.216	0.00	0.00
ATOM	3908	N	ASP	X	262	31.661	45.874	73.103	0.00	0.00
ATOM	3909	H	ASP	X	262	30.671	45.758	73.267	0.00	0.00
ATOM	3910	CA	ASP	X	262	32.128	45.787	71.746	0.00	0.00
ATOM	3911	HA	ASP	X	262	32.941	45.067	71.651	0.00	0.00
ATOM	3912	CB	ASP	X	262	31.006	45.309	70.767	0.00	0.00
ATOM	3913	HB2	ASP	X	262	30.059	45.806	70.978	0.00	0.00
ATOM	3914	HB3	ASP	X	262	31.369	45.464	69.751	0.00	0.00
ATOM	3915	CG	ASP	X	262	30.750	43.769	70.924	0.00	0.00
ATOM	3916	OD1	ASP	X	262	29.603	43.357	70.648	0.00	0.00
ATOM	3917	OD2	ASP	X	262	31.649	43.073	71.376	0.00	0.00
ATOM	3918	C	ASP	X	262	32.534	47.162	71.203	0.00	0.00
ATOM	3919	O	ASP	X	262	33.554	47.258	70.581	0.00	0.00
ATOM	3920	N	THR	X	263	31.767	48.167	71.610	0.00	0.00
ATOM	3921	H	THR	X	263	31.128	47.959	72.364	0.00	0.00
ATOM	3922	CA	THR	X	263	32.026	49.600	71.317	0.00	0.00
ATOM	3923	HA	THR	X	263	32.158	49.609	70.235	0.00	0.00
ATOM	3924	CB	THR	X	263	30.889	50.487	71.777	0.00	0.00
ATOM	3925	HB	THR	X	263	30.845	50.559	72.863	0.00	0.00
ATOM	3926	CG2	THR	X	263	31.208	51.903	71.373	0.00	0.00
ATOM	3927	HG21	THR	X	263	31.471	51.979	70.317	0.00	0.00
ATOM	3928	HG22	THR	X	263	30.425	52.613	71.639	0.00	0.00
ATOM	3929	HG23	THR	X	263	32.048	52.313	71.933	0.00	0.00
ATOM	3930	OG1	THR	X	263	29.674	50.041	71.208	0.00	0.00
ATOM	3931	HG1	THR	X	263	29.847	49.995	70.265	0.00	0.00
ATOM	3932	C	THR	X	263	33.388	49.997	71.942	0.00	0.00
ATOM	3933	O	THR	X	263	34.227	50.585	71.285	0.00	0.00
ATOM	3934	N	GLU	X	264	33.643	49.604	73.190	0.00	0.00
ATOM	3935	H	GLU	X	264	32.938	49.195	73.786	0.00	0.00
ATOM	3936	CA	GLU	X	264	34.863	50.104	73.930	0.00	0.00
ATOM	3937	HA	GLU	X	264	34.996	51.180	73.815	0.00	0.00
ATOM	3938	CB	GLU	X	264	34.766	49.941	75.426	0.00	0.00
ATOM	3939	HB2	GLU	X	264	34.198	49.024	75.580	0.00	0.00
ATOM	3940	HB3	GLU	X	264	35.760	49.773	75.841	0.00	0.00
ATOM	3941	CG	GLU	X	264	34.040	51.080	76.183	0.00	0.00
ATOM	3942	HG2	GLU	X	264	33.075	51.212	75.693	0.00	0.00
ATOM	3943	HG3	GLU	X	264	33.848	50.832	77.227	0.00	0.00
ATOM	3944	CD	GLU	X	264	34.986	52.371	76.049	0.00	0.00
ATOM	3945	OE1	GLU	X	264	34.497	53.414	75.508	0.00	0.00
ATOM	3946	OE2	GLU	X	264	36.125	52.316	76.544	0.00	0.00
ATOM	3947	C	GLU	X	264	36.100	49.381	73.391	0.00	0.00
ATOM	3948	O	GLU	X	264	37.247	49.827	73.509	0.00	0.00
ATOM	3949	N	LEU	X	265	35.909	48.150	72.818	0.00	0.00
ATOM	3950	H	LEU	X	265	34.967	47.795	72.891	0.00	0.00
ATOM	3951	CA	LEU	X	265	36.974	47.358	72.208	0.00	0.00
ATOM	3952	HA	LEU	X	265	37.846	47.239	72.852	0.00	0.00
ATOM	3953	CB	LEU	X	265	36.351	45.971	72.029	0.00	0.00
ATOM	3954	HB2	LEU	X	265	36.141	45.695	73.062	0.00	0.00
ATOM	3955	HB3	LEU	X	265	35.430	46.007	71.447	0.00	0.00
ATOM	3956	CG	LEU	X	265	37.233	44.894	71.362	0.00	0.00
ATOM	3957	HG	LEU	X	265	38.246	45.027	71.742	0.00	0.00
ATOM	3958	CD1	LEU	X	265	36.781	43.474	71.603	0.00	0.00
ATOM	3959	HD11	LEU	X	265	35.720	43.329	71.395	0.00	0.00
ATOM	3960	HD12	LEU	X	265	37.418	42.704	71.168	0.00	0.00
ATOM	3961	HD13	LEU	X	265	36.769	43.386	72.689	0.00	0.00

ATOM	3962	CD2	LEU	X	265	37.224	45.004	69.815	0.00	0.00
ATOM	3963	HD21	LEU	X	265	37.634	44.050	69.483	0.00	0.00
ATOM	3964	HD22	LEU	X	265	36.271	45.317	69.387	0.00	0.00
ATOM	3965	HD23	LEU	X	265	37.984	45.747	69.570	0.00	0.00
ATOM	3966	C	LEU	X	265	37.426	47.963	70.868	0.00	0.00
ATOM	3967	O	LEU	X	265	38.580	48.243	70.669	0.00	0.00
ATOM	3968	N	VAL	X	266	36.455	48.312	70.050	0.00	0.00
ATOM	3969	H	VAL	X	266	35.535	47.951	70.261	0.00	0.00
ATOM	3970	CA	VAL	X	266	36.697	49.011	68.798	0.00	0.00
ATOM	3971	HA	VAL	X	266	37.524	48.529	68.277	0.00	0.00
ATOM	3972	CB	VAL	X	266	35.581	48.881	67.836	0.00	0.00
ATOM	3973	HB	VAL	X	266	34.683	49.377	68.203	0.00	0.00
ATOM	3974	CG1	VAL	X	266	35.866	49.581	66.529	0.00	0.00
ATOM	3975	HG11	VAL	X	266	36.115	50.636	66.642	0.00	0.00
ATOM	3976	HG12	VAL	X	266	36.633	49.118	65.908	0.00	0.00
ATOM	3977	HG13	VAL	X	266	34.962	49.548	65.920	0.00	0.00
ATOM	3978	CG2	VAL	X	266	35.321	47.420	67.434	0.00	0.00
ATOM	3979	HG21	VAL	X	266	34.532	47.393	66.684	0.00	0.00
ATOM	3980	HG22	VAL	X	266	36.183	46.823	67.135	0.00	0.00
ATOM	3981	HG23	VAL	X	266	34.813	46.949	68.275	0.00	0.00
ATOM	3982	C	VAL	X	266	37.114	50.490	68.983	0.00	0.00
ATOM	3983	O	VAL	X	266	38.016	51.014	68.253	0.00	0.00
ATOM	3984	N	ALA	X	267	36.680	51.149	70.073	0.00	0.00
ATOM	3985	H	ALA	X	267	35.987	50.650	70.612	0.00	0.00
ATOM	3986	CA	ALA	X	267	37.112	52.422	70.544	0.00	0.00
ATOM	3987	HA	ALA	X	267	37.028	53.126	69.716	0.00	0.00
ATOM	3988	CB	ALA	X	267	36.187	52.926	71.692	0.00	0.00
ATOM	3989	HB1	ALA	X	267	36.252	52.180	72.484	0.00	0.00
ATOM	3990	HB2	ALA	X	267	36.655	53.741	72.243	0.00	0.00
ATOM	3991	HB3	ALA	X	267	35.204	53.234	71.334	0.00	0.00
ATOM	3992	C	ALA	X	267	38.561	52.504	71.017	0.00	0.00
ATOM	3993	O	ALA	X	267	39.268	53.447	70.633	0.00	0.00
ATOM	3994	N	CYX	X	268	38.989	51.555	71.899	0.00	0.00
ATOM	3995	H	CYX	X	268	38.233	50.960	72.207	0.00	0.00
ATOM	3996	CA	CYX	X	268	40.396	51.299	72.211	0.00	0.00
ATOM	3997	HA	CYX	X	268	40.742	52.215	72.690	0.00	0.00
ATOM	3998	CB	CYX	X	268	40.495	50.180	73.154	0.00	0.00
ATOM	3999	HB2	CYX	X	268	39.949	50.420	74.067	0.00	0.00
ATOM	4000	HB3	CYX	X	268	40.036	49.277	72.753	0.00	0.00
ATOM	4001	SG	CYX	X	268	42.123	49.750	73.701	0.00	0.00
ATOM	4002	C	CYX	X	268	41.223	50.999	71.005	0.00	0.00
ATOM	4003	O	CYX	X	268	42.330	51.588	70.870	0.00	0.00
ATOM	4004	N	LEU	X	269	40.695	50.136	70.122	0.00	0.00
ATOM	4005	H	LEU	X	269	39.769	49.749	70.228	0.00	0.00
ATOM	4006	CA	LEU	X	269	41.416	49.758	68.953	0.00	0.00
ATOM	4007	HA	LEU	X	269	42.470	49.667	69.215	0.00	0.00
ATOM	4008	CB	LEU	X	269	40.765	48.423	68.530	0.00	0.00
ATOM	4009	HB2	LEU	X	269	40.789	47.760	69.395	0.00	0.00
ATOM	4010	HB3	LEU	X	269	39.706	48.533	68.298	0.00	0.00
ATOM	4011	CG	LEU	X	269	41.407	47.608	67.428	0.00	0.00
ATOM	4012	HG	LEU	X	269	41.711	48.361	66.702	0.00	0.00
ATOM	4013	CD1	LEU	X	269	42.626	46.853	67.934	0.00	0.00
ATOM	4014	HD11	LEU	X	269	43.035	46.244	67.128	0.00	0.00
ATOM	4015	HD12	LEU	X	269	43.426	47.569	68.126	0.00	0.00
ATOM	4016	HD13	LEU	X	269	42.313	46.375	68.862	0.00	0.00
ATOM	4017	CD2	LEU	X	269	40.300	46.681	66.840	0.00	0.00
ATOM	4018	HD21	LEU	X	269	40.695	46.318	65.892	0.00	0.00
ATOM	4019	HD22	LEU	X	269	39.994	45.931	67.570	0.00	0.00
ATOM	4020	HD23	LEU	X	269	39.426	47.278	66.579	0.00	0.00
ATOM	4021	C	LEU	X	269	41.328	50.834	67.891	0.00	0.00
ATOM	4022	O	LEU	X	269	41.847	50.709	66.801	0.00	0.00
ATOM	4023	N	ARG	X	270	40.882	52.073	68.249	0.00	0.00
ATOM	4024	H	ARG	X	270	40.275	52.136	69.053	0.00	0.00
ATOM	4025	CA	ARG	X	270	41.106	53.302	67.439	0.00	0.00
ATOM	4026	HA	ARG	X	270	41.581	53.093	66.481	0.00	0.00
ATOM	4027	CB	ARG	X	270	39.690	53.837	67.165	0.00	0.00
ATOM	4028	HB2	ARG	X	270	39.024	53.731	68.022	0.00	0.00
ATOM	4029	HB3	ARG	X	270	39.809	54.913	67.038	0.00	0.00
ATOM	4030	CG	ARG	X	270	39.000	53.245	65.972	0.00	0.00
ATOM	4031	HG2	ARG	X	270	39.787	53.082	65.236	0.00	0.00

ATOM	4032	HG3	ARG	X	270	38.584	52.277	66.250	0.00	0.00
ATOM	4033	CD	ARG	X	270	37.989	54.259	65.411	0.00	0.00
ATOM	4034	HD2	ARG	X	270	38.309	55.293	65.545	0.00	0.00
ATOM	4035	HD3	ARG	X	270	38.109	54.061	64.345	0.00	0.00
ATOM	4036	NE	ARG	X	270	36.557	54.025	65.878	0.00	0.00
ATOM	4037	HE	ARG	X	270	36.251	54.364	66.779	0.00	0.00
ATOM	4038	CZ	ARG	X	270	35.578	53.273	65.339	0.00	0.00
ATOM	4039	NH1	ARG	X	270	35.655	52.695	64.197	0.00	0.00
ATOM	4040	HH11	ARG	X	270	36.511	52.813	63.673	0.00	0.00
ATOM	4041	HH12	ARG	X	270	34.897	52.112	63.873	0.00	0.00
ATOM	4042	NH2	ARG	X	270	34.465	53.055	66.050	0.00	0.00
ATOM	4043	HH21	ARG	X	270	34.455	53.373	67.008	0.00	0.00
ATOM	4044	HH22	ARG	X	270	33.874	52.255	65.869	0.00	0.00
ATOM	4045	C	ARG	X	270	41.989	54.226	68.196	0.00	0.00
ATOM	4046	O	ARG	X	270	42.854	54.945	67.659	0.00	0.00
ATOM	4047	N	THR	X	271	41.819	54.383	69.555	0.00	0.00
ATOM	4048	H	THR	X	271	41.026	53.938	69.995	0.00	0.00
ATOM	4049	CA	THR	X	271	42.671	55.234	70.417	0.00	0.00
ATOM	4050	HA	THR	X	271	42.682	56.223	69.958	0.00	0.00
ATOM	4051	CB	THR	X	271	42.081	55.197	71.846	0.00	0.00
ATOM	4052	HB	THR	X	271	42.012	54.234	72.351	0.00	0.00
ATOM	4053	CG2	THR	X	271	42.838	56.117	72.780	0.00	0.00
ATOM	4054	HG21	THR	X	271	43.826	55.659	72.834	0.00	0.00
ATOM	4055	HG22	THR	X	271	42.767	57.108	72.331	0.00	0.00
ATOM	4056	HG23	THR	X	271	42.395	56.173	73.774	0.00	0.00
ATOM	4057	OG1	THR	X	271	40.824	55.779	71.819	0.00	0.00
ATOM	4058	HG1	THR	X	271	40.479	55.689	72.710	0.00	0.00
ATOM	4059	C	THR	X	271	44.107	54.711	70.408	0.00	0.00
ATOM	4060	O	THR	X	271	45.050	55.537	70.288	0.00	0.00
ATOM	4061	N	ARG	X	272	44.372	53.399	70.604	0.00	0.00
ATOM	4062	H	ARG	X	272	43.607	52.742	70.550	0.00	0.00
ATOM	4063	CA	ARG	X	272	45.689	52.811	70.638	0.00	0.00
ATOM	4064	HA	ARG	X	272	46.167	53.348	71.457	0.00	0.00
ATOM	4065	CB	ARG	X	272	45.715	51.289	71.129	0.00	0.00
ATOM	4066	HB2	ARG	X	272	45.082	50.691	70.475	0.00	0.00
ATOM	4067	HB3	ARG	X	272	46.699	50.840	70.997	0.00	0.00
ATOM	4068	CG	ARG	X	272	45.076	51.103	72.536	0.00	0.00
ATOM	4069	HG2	ARG	X	272	44.153	51.680	72.575	0.00	0.00
ATOM	4070	HG3	ARG	X	272	44.772	50.062	72.643	0.00	0.00
ATOM	4071	CD	ARG	X	272	46.015	51.378	73.666	0.00	0.00
ATOM	4072	HD2	ARG	X	272	46.898	50.746	73.562	0.00	0.00
ATOM	4073	HD3	ARG	X	272	46.331	52.419	73.737	0.00	0.00
ATOM	4074	NE	ARG	X	272	45.510	50.943	74.918	0.00	0.00
ATOM	4075	HE	ARG	X	272	44.533	50.691	74.937	0.00	0.00
ATOM	4076	CZ	ARG	X	272	46.174	50.463	75.985	0.00	0.00
ATOM	4077	NH1	ARG	X	272	47.402	50.875	76.141	0.00	0.00
ATOM	4078	HH11	ARG	X	272	47.797	51.649	75.627	0.00	0.00
ATOM	4079	HH12	ARG	X	272	47.927	50.581	76.952	0.00	0.00
ATOM	4080	NH2	ARG	X	272	45.599	49.833	76.986	0.00	0.00
ATOM	4081	HH21	ARG	X	272	44.659	49.475	76.896	0.00	0.00
ATOM	4082	HH22	ARG	X	272	46.115	49.544	77.805	0.00	0.00
ATOM	4083	C	ARG	X	272	46.517	52.949	69.284	0.00	0.00
ATOM	4084	O	ARG	X	272	45.965	52.769	68.158	0.00	0.00
ATOM	4085	N	PRO	X	273	47.789	53.165	69.303	0.00	0.00
ATOM	4086	CD	PRO	X	273	48.663	53.081	70.448	0.00	0.00
ATOM	4087	HD2	PRO	X	273	49.088	52.084	70.334	0.00	0.00
ATOM	4088	HD3	PRO	X	273	48.100	53.274	71.361	0.00	0.00
ATOM	4089	CG	PRO	X	273	49.759	54.089	70.255	0.00	0.00
ATOM	4090	HG2	PRO	X	273	50.621	53.857	70.881	0.00	0.00
ATOM	4091	HG3	PRO	X	273	49.410	55.096	70.482	0.00	0.00
ATOM	4092	CB	PRO	X	273	49.999	53.959	68.737	0.00	0.00
ATOM	4093	HB2	PRO	X	273	50.764	53.206	68.548	0.00	0.00
ATOM	4094	HB3	PRO	X	273	50.409	54.819	68.207	0.00	0.00
ATOM	4095	CA	PRO	X	273	48.661	53.454	68.153	0.00	0.00
ATOM	4096	HA	PRO	X	273	48.350	54.344	67.607	0.00	0.00
ATOM	4097	C	PRO	X	273	48.856	52.331	67.158	0.00	0.00
ATOM	4098	O	PRO	X	273	49.105	51.245	67.630	0.00	0.00
ATOM	4099	N	ALA	X	274	48.785	52.622	65.893	0.00	0.00
ATOM	4100	H	ALA	X	274	48.570	53.590	65.703	0.00	0.00
ATOM	4101	CA	ALA	X	274	48.855	51.713	64.727	0.00	0.00

ATOM	4102	HA	ALA	X	274	47.965	51.084	64.751	0.00	0.00
ATOM	4103	CB	ALA	X	274	49.003	52.543	63.469	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.141	51.941	62.571	0.00	0.00
ATOM	4105	HB2	ALA	X	274	48.141	53.158	63.211	0.00	0.00
ATOM	4106	HB3	ALA	X	274	49.837	53.240	63.556	0.00	0.00
ATOM	4107	C	ALA	X	274	50.108	50.792	64.759	0.00	0.00
ATOM	4108	O	ALA	X	274	50.058	49.590	64.413	0.00	0.00
ATOM	4109	N	GLN	X	275	51.152	51.347	65.355	0.00	0.00
ATOM	4110	H	GLN	X	275	51.154	52.323	65.614	0.00	0.00
ATOM	4111	CA	GLN	X	275	52.450	50.557	65.432	0.00	0.00
ATOM	4112	HA	GLN	X	275	52.682	50.077	64.481	0.00	0.00
ATOM	4113	CB	GLN	X	275	53.673	51.492	65.739	0.00	0.00
ATOM	4114	HB2	GLN	X	275	53.349	52.076	66.600	0.00	0.00
ATOM	4115	HB3	GLN	X	275	54.533	50.902	66.055	0.00	0.00
ATOM	4116	CG	GLN	X	275	53.973	52.440	64.567	0.00	0.00
ATOM	4117	HG2	GLN	X	275	54.462	51.851	63.792	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.112	53.002	64.205	0.00	0.00
ATOM	4119	CD	GLN	X	275	54.995	53.490	65.018	0.00	0.00
ATOM	4120	OE1	GLN	X	275	56.003	53.624	64.385	0.00	0.00
ATOM	4121	NE2	GLN	X	275	54.885	54.147	66.152	0.00	0.00
ATOM	4122	HE21	GLN	X	275	55.447	54.962	66.355	0.00	0.00
ATOM	4123	HE22	GLN	X	275	54.045	54.076	66.709	0.00	0.00
ATOM	4124	C	GLN	X	275	52.265	49.320	66.387	0.00	0.00
ATOM	4125	O	GLN	X	275	52.980	48.357	66.332	0.00	0.00
ATOM	4126	N	VAL	X	276	51.270	49.411	67.308	0.00	0.00
ATOM	4127	H	VAL	X	276	50.786	50.285	67.459	0.00	0.00
ATOM	4128	CA	VAL	X	276	50.869	48.253	68.179	0.00	0.00
ATOM	4129	HA	VAL	X	276	51.858	47.864	68.424	0.00	0.00
ATOM	4130	CB	VAL	X	276	50.254	48.832	69.450	0.00	0.00
ATOM	4131	HB	VAL	X	276	49.239	49.159	69.224	0.00	0.00
ATOM	4132	CG1	VAL	X	276	50.083	47.695	70.564	0.00	0.00
ATOM	4133	HG11	VAL	X	276	51.040	47.239	70.816	0.00	0.00
ATOM	4134	HG12	VAL	X	276	49.560	48.238	71.352	0.00	0.00
ATOM	4135	HG13	VAL	X	276	49.448	46.846	70.311	0.00	0.00
ATOM	4136	CG2	VAL	X	276	50.880	50.131	70.076	0.00	0.00
ATOM	4137	HG21	VAL	X	276	51.053	50.880	69.303	0.00	0.00
ATOM	4138	HG22	VAL	X	276	50.294	50.489	70.922	0.00	0.00
ATOM	4139	HG23	VAL	X	276	51.905	49.916	70.378	0.00	0.00
ATOM	4140	C	VAL	X	276	49.907	47.223	67.420	0.00	0.00
ATOM	4141	O	VAL	X	276	50.110	46.046	67.529	0.00	0.00
ATOM	4142	N	LEU	X	277	49.112	47.767	66.460	0.00	0.00
ATOM	4143	H	LEU	X	277	49.236	48.753	66.278	0.00	0.00
ATOM	4144	CA	LEU	X	277	48.256	46.950	65.574	0.00	0.00
ATOM	4145	HA	LEU	X	277	47.750	46.217	66.201	0.00	0.00
ATOM	4146	CB	LEU	X	277	47.204	47.778	64.758	0.00	0.00
ATOM	4147	HB2	LEU	X	277	47.752	48.638	64.371	0.00	0.00
ATOM	4148	HB3	LEU	X	277	46.873	47.102	63.970	0.00	0.00
ATOM	4149	CG	LEU	X	277	45.984	48.363	65.523	0.00	0.00
ATOM	4150	HG	LEU	X	277	45.319	47.554	65.825	0.00	0.00
ATOM	4151	CD1	LEU	X	277	46.239	49.339	66.724	0.00	0.00
ATOM	4152	HD11	LEU	X	277	47.012	50.029	66.384	0.00	0.00
ATOM	4153	HD12	LEU	X	277	45.294	49.727	67.104	0.00	0.00
ATOM	4154	HD13	LEU	X	277	46.618	48.721	67.538	0.00	0.00
ATOM	4155	CD2	LEU	X	277	45.192	49.193	64.491	0.00	0.00
ATOM	4156	HD21	LEU	X	277	45.038	48.581	63.603	0.00	0.00
ATOM	4157	HD22	LEU	X	277	44.231	49.420	64.952	0.00	0.00
ATOM	4158	HD23	LEU	X	277	45.693	50.122	64.221	0.00	0.00
ATOM	4159	C	LEU	X	277	49.136	46.188	64.556	0.00	0.00
ATOM	4160	O	LEU	X	277	48.980	44.969	64.421	0.00	0.00
ATOM	4161	N	VAL	X	278	50.063	46.834	63.810	0.00	0.00
ATOM	4162	H	VAL	X	278	50.190	47.818	63.999	0.00	0.00
ATOM	4163	CA	VAL	X	278	50.904	46.226	62.739	0.00	0.00
ATOM	4164	HA	VAL	X	278	50.148	45.703	62.153	0.00	0.00
ATOM	4165	CB	VAL	X	278	51.544	47.413	61.899	0.00	0.00
ATOM	4166	HB	VAL	X	278	50.882	48.279	61.879	0.00	0.00
ATOM	4167	CG1	VAL	X	278	52.882	47.964	62.531	0.00	0.00
ATOM	4168	HG11	VAL	X	278	52.761	48.211	63.585	0.00	0.00
ATOM	4169	HG12	VAL	X	278	53.570	47.129	62.401	0.00	0.00
ATOM	4170	HG13	VAL	X	278	53.324	48.778	61.956	0.00	0.00
ATOM	4171	CG2	VAL	X	278	51.740	46.925	60.492	0.00	0.00

ATOM	4172	HG21	VAL	X	278	50.807	47.028	59.938	0.00	0.00
ATOM	4173	HG22	VAL	X	278	52.469	47.548	59.974	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.100	45.901	60.392	0.00	0.00
ATOM	4175	C	VAL	X	278	51.911	45.242	63.253	0.00	0.00
ATOM	4176	O	VAL	X	278	52.187	44.319	62.484	0.00	0.00
ATOM	4177	N	ASN	X	279	52.304	45.426	64.508	0.00	0.00
ATOM	4178	H	ASN	X	279	51.937	46.168	65.087	0.00	0.00
ATOM	4179	CA	ASN	X	279	53.044	44.415	65.219	0.00	0.00
ATOM	4180	HA	ASN	X	279	53.905	44.185	64.590	0.00	0.00
ATOM	4181	CB	ASN	X	279	53.527	45.052	66.509	0.00	0.00
ATOM	4182	HB2	ASN	X	279	54.158	45.908	66.266	0.00	0.00
ATOM	4183	HB3	ASN	X	279	52.818	45.377	67.270	0.00	0.00
ATOM	4184	CG	ASN	X	279	54.369	44.114	67.350	0.00	0.00
ATOM	4185	OD1	ASN	X	279	55.579	43.895	67.028	0.00	0.00
ATOM	4186	ND2	ASN	X	279	53.819	43.529	68.385	0.00	0.00
ATOM	4187	HD21	ASN	X	279	54.290	42.742	68.807	0.00	0.00
ATOM	4188	HD22	ASN	X	279	52.881	43.737	68.699	0.00	0.00
ATOM	4189	C	ASN	X	279	52.275	43.109	65.456	0.00	0.00
ATOM	4190	O	ASN	X	279	52.652	41.998	65.129	0.00	0.00
ATOM	4191	N	HIE	X	280	51.008	43.301	65.915	0.00	0.00
ATOM	4192	H	HIE	X	280	50.562	44.205	65.985	0.00	0.00
ATOM	4193	CA	HIE	X	280	50.265	42.209	66.557	0.00	0.00
ATOM	4194	HA	HIE	X	280	50.958	41.508	67.022	0.00	0.00
ATOM	4195	CB	HIE	X	280	49.404	42.851	67.612	0.00	0.00
ATOM	4196	HB2	HIE	X	280	48.722	43.642	67.297	0.00	0.00
ATOM	4197	HB3	HIE	X	280	48.727	42.079	67.978	0.00	0.00
ATOM	4198	CG	HIE	X	280	50.106	43.194	68.891	0.00	0.00
ATOM	4199	ND1	HIE	X	280	51.011	42.357	69.464	0.00	0.00
ATOM	4200	CE1	HIE	X	280	51.277	42.980	70.652	0.00	0.00
ATOM	4201	HE1	HIE	X	280	52.047	42.674	71.346	0.00	0.00
ATOM	4202	NE2	HIE	X	280	50.485	44.029	70.797	0.00	0.00
ATOM	4203	HE2	HIE	X	280	50.708	44.856	71.333	0.00	0.00
ATOM	4204	CD2	HIE	X	280	49.648	44.095	69.767	0.00	0.00
ATOM	4205	HD2	HIE	X	280	48.775	44.720	69.651	0.00	0.00
ATOM	4206	C	HIE	X	280	49.331	41.379	65.567	0.00	0.00
ATOM	4207	O	HIE	X	280	48.848	40.346	65.963	0.00	0.00
ATOM	4208	N	GLU	X	281	49.161	41.875	64.325	0.00	0.00
ATOM	4209	H	GLU	X	281	49.644	42.722	64.062	0.00	0.00
ATOM	4210	CA	GLU	X	281	48.396	41.102	63.333	0.00	0.00
ATOM	4211	HA	GLU	X	281	47.388	40.851	63.665	0.00	0.00
ATOM	4212	CB	GLU	X	281	48.245	41.902	62.045	0.00	0.00
ATOM	4213	HB2	GLU	X	281	48.351	42.942	62.354	0.00	0.00
ATOM	4214	HB3	GLU	X	281	49.072	41.657	61.379	0.00	0.00
ATOM	4215	CG	GLU	X	281	46.905	41.709	61.280	0.00	0.00
ATOM	4216	HG2	GLU	X	281	46.594	40.664	61.282	0.00	0.00
ATOM	4217	HG3	GLU	X	281	46.158	42.277	61.835	0.00	0.00
ATOM	4218	CD	GLU	X	281	46.873	42.234	59.843	0.00	0.00
ATOM	4219	OE1	GLU	X	281	46.202	43.267	59.563	0.00	0.00
ATOM	4220	OE2	GLU	X	281	47.456	41.554	58.980	0.00	0.00
ATOM	4221	C	GLU	X	281	49.088	39.733	62.914	0.00	0.00
ATOM	4222	O	GLU	X	281	48.457	38.792	62.432	0.00	0.00
ATOM	4223	N	TRP	X	282	50.428	39.573	63.175	0.00	0.00
ATOM	4224	H	TRP	X	282	50.981	40.284	63.630	0.00	0.00
ATOM	4225	CA	TRP	X	282	51.108	38.330	62.688	0.00	0.00
ATOM	4226	HA	TRP	X	282	50.827	38.265	61.637	0.00	0.00
ATOM	4227	CB	TRP	X	282	52.694	38.486	62.795	0.00	0.00
ATOM	4228	HB2	TRP	X	282	53.001	39.398	62.282	0.00	0.00
ATOM	4229	HB3	TRP	X	282	52.803	38.731	63.851	0.00	0.00
ATOM	4230	CG	TRP	X	282	53.471	37.316	62.457	0.00	0.00
ATOM	4231	CD1	TRP	X	282	53.370	36.638	61.284	0.00	0.00
ATOM	4232	HD1	TRP	X	282	52.782	36.839	60.400	0.00	0.00
ATOM	4233	NE1	TRP	X	282	54.265	35.656	61.233	0.00	0.00
ATOM	4234	HE1	TRP	X	282	54.344	34.980	60.486	0.00	0.00
ATOM	4235	CE2	TRP	X	282	55.004	35.595	62.400	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	56.000	34.750	62.799	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	56.168	33.892	62.165	0.00	0.00
ATOM	4238	CH2	TRP	X	282	56.604	34.944	64.077	0.00	0.00
ATOM	4239	HH2	TRP	X	282	57.395	34.270	64.371	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	56.165	36.032	64.885	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	56.566	36.082	65.886	0.00	0.00

ATOM	4242	CE3	TRP	X	282	55.129	36.882	64.467	0.00	0.00
ATOM	4243	HE3	TRP	X	282	54.860	37.716	65.099	0.00	0.00
ATOM	4244	CD2	TRP	X	282	54.553	36.698	63.204	0.00	0.00
ATOM	4245	C	TRP	X	282	50.581	36.981	63.360	0.00	0.00
ATOM	4246	O	TRP	X	282	50.770	35.902	62.772	0.00	0.00
ATOM	4247	N	HIE	X	283	49.853	37.174	64.481	0.00	0.00
ATOM	4248	H	HIE	X	283	49.845	38.119	64.838	0.00	0.00
ATOM	4249	CA	HIE	X	283	49.078	36.101	65.186	0.00	0.00
ATOM	4250	HA	HIE	X	283	49.554	35.127	65.072	0.00	0.00
ATOM	4251	CB	HIE	X	283	49.039	36.485	66.724	0.00	0.00
ATOM	4252	HB2	HIE	X	283	50.056	36.525	67.113	0.00	0.00
ATOM	4253	HB3	HIE	X	283	48.514	37.434	66.834	0.00	0.00
ATOM	4254	CG	HIE	X	283	48.328	35.416	67.599	0.00	0.00
ATOM	4255	ND1	HIE	X	283	48.821	34.132	67.858	0.00	0.00
ATOM	4256	CE1	HIE	X	283	47.828	33.566	68.586	0.00	0.00
ATOM	4257	HE1	HIE	X	283	47.787	32.509	68.804	0.00	0.00
ATOM	4258	NE2	HIE	X	283	46.794	34.375	68.833	0.00	0.00
ATOM	4259	HE2	HIE	X	283	45.940	34.221	69.349	0.00	0.00
ATOM	4260	CD2	HIE	X	283	47.075	35.526	68.144	0.00	0.00
ATOM	4261	HD2	HIE	X	283	46.399	36.354	67.985	0.00	0.00
ATOM	4262	C	HIE	X	283	47.628	35.902	64.628	0.00	0.00
ATOM	4263	O	HIE	X	283	46.928	34.928	64.862	0.00	0.00
ATOM	4264	N	VAL	X	284	47.165	36.934	63.953	0.00	0.00
ATOM	4265	H	VAL	X	284	47.775	37.703	63.713	0.00	0.00
ATOM	4266	CA	VAL	X	284	45.849	36.933	63.226	0.00	0.00
ATOM	4267	HA	VAL	X	284	45.173	36.249	63.739	0.00	0.00
ATOM	4268	CB	VAL	X	284	45.159	38.263	63.206	0.00	0.00
ATOM	4269	HB	VAL	X	284	45.704	38.915	62.524	0.00	0.00
ATOM	4270	CG1	VAL	X	284	43.732	38.083	62.684	0.00	0.00
ATOM	4271	HG11	VAL	X	284	43.194	37.346	63.281	0.00	0.00
ATOM	4272	HG12	VAL	X	284	43.179	39.017	62.780	0.00	0.00
ATOM	4273	HG13	VAL	X	284	43.683	37.833	61.624	0.00	0.00
ATOM	4274	CG2	VAL	X	284	45.260	39.065	64.509	0.00	0.00
ATOM	4275	HG21	VAL	X	284	44.638	39.947	64.355	0.00	0.00
ATOM	4276	HG22	VAL	X	284	44.925	38.506	65.383	0.00	0.00
ATOM	4277	HG23	VAL	X	284	46.277	39.318	64.807	0.00	0.00
ATOM	4278	C	VAL	X	284	46.118	36.374	61.856	0.00	0.00
ATOM	4279	O	VAL	X	284	45.200	35.826	61.183	0.00	0.00
ATOM	4280	N	LEU	X	285	47.376	36.336	61.302	0.00	0.00
ATOM	4281	H	LEU	X	285	48.135	36.848	61.729	0.00	0.00
ATOM	4282	CA	LEU	X	285	47.780	35.559	60.077	0.00	0.00
ATOM	4283	HA	LEU	X	285	46.951	35.808	59.415	0.00	0.00
ATOM	4284	CB	LEU	X	285	49.056	36.188	59.496	0.00	0.00
ATOM	4285	HB2	LEU	X	285	48.858	37.259	59.474	0.00	0.00
ATOM	4286	HB3	LEU	X	285	49.887	36.075	60.193	0.00	0.00
ATOM	4287	CG	LEU	X	285	49.634	35.721	58.104	0.00	0.00
ATOM	4288	HG	LEU	X	285	49.443	34.650	58.035	0.00	0.00
ATOM	4289	CD1	LEU	X	285	48.968	36.440	56.951	0.00	0.00
ATOM	4290	HD11	LEU	X	285	47.897	36.259	57.051	0.00	0.00
ATOM	4291	HD12	LEU	X	285	49.185	37.508	56.916	0.00	0.00
ATOM	4292	HD13	LEU	X	285	49.220	36.034	55.971	0.00	0.00
ATOM	4293	CD2	LEU	X	285	51.145	36.001	57.839	0.00	0.00
ATOM	4294	HD21	LEU	X	285	51.296	35.897	56.765	0.00	0.00
ATOM	4295	HD22	LEU	X	285	51.419	36.980	58.231	0.00	0.00
ATOM	4296	HD23	LEU	X	285	51.757	35.312	58.422	0.00	0.00
ATOM	4297	C	LEU	X	285	47.874	34.119	60.484	0.00	0.00
ATOM	4298	O	LEU	X	285	48.498	33.906	61.526	0.00	0.00
ATOM	4299	N	PRO	X	286	47.210	33.227	59.764	0.00	0.00
ATOM	4300	CD	PRO	X	286	46.374	33.558	58.641	0.00	0.00
ATOM	4301	HD2	PRO	X	286	47.008	33.915	57.830	0.00	0.00
ATOM	4302	HD3	PRO	X	286	45.693	34.404	58.739	0.00	0.00
ATOM	4303	CG	PRO	X	286	45.650	32.231	58.266	0.00	0.00
ATOM	4304	HG2	PRO	X	286	46.011	31.911	57.289	0.00	0.00
ATOM	4305	HG3	PRO	X	286	44.595	32.394	58.047	0.00	0.00
ATOM	4306	CB	PRO	X	286	45.924	31.259	59.426	0.00	0.00
ATOM	4307	HB2	PRO	X	286	46.108	30.275	58.996	0.00	0.00
ATOM	4308	HB3	PRO	X	286	45.050	31.278	60.077	0.00	0.00
ATOM	4309	CA	PRO	X	286	47.055	31.804	60.230	0.00	0.00
ATOM	4310	HA	PRO	X	286	46.812	31.820	61.292	0.00	0.00
ATOM	4311	C	PRO	X	286	48.333	30.962	60.005	0.00	0.00

ATOM	4312	O	PRO	X	286	49.314	31.468	59.436	0.00	0.00
ATOM	4313	N	GLN	X	287	48.393	29.802	60.636	0.00	0.00
ATOM	4314	H	GLN	X	287	47.512	29.492	61.021	0.00	0.00
ATOM	4315	CA	GLN	X	287	49.538	28.898	60.829	0.00	0.00
ATOM	4316	HA	GLN	X	287	50.429	29.146	60.252	0.00	0.00
ATOM	4317	CB	GLN	X	287	49.917	28.936	62.345	0.00	0.00
ATOM	4318	HB2	GLN	X	287	49.015	28.835	62.948	0.00	0.00
ATOM	4319	HB3	GLN	X	287	50.495	28.025	62.500	0.00	0.00
ATOM	4320	CG	GLN	X	287	50.716	30.025	63.008	0.00	0.00
ATOM	4321	HG2	GLN	X	287	51.631	30.156	62.431	0.00	0.00
ATOM	4322	HG3	GLN	X	287	50.167	30.967	62.992	0.00	0.00
ATOM	4323	CD	GLN	X	287	51.134	29.747	64.461	0.00	0.00
ATOM	4324	OE1	GLN	X	287	50.535	29.066	65.262	0.00	0.00
ATOM	4325	NE2	GLN	X	287	52.229	30.325	64.984	0.00	0.00
ATOM	4326	HE21	GLN	X	287	52.484	30.117	65.939	0.00	0.00
ATOM	4327	HE22	GLN	X	287	52.597	31.086	64.431	0.00	0.00
ATOM	4328	C	GLN	X	287	49.106	27.533	60.363	0.00	0.00
ATOM	4329	O	GLN	X	287	47.945	27.112	60.612	0.00	0.00
ATOM	4330	N	GLU	X	288	49.985	26.779	59.726	0.00	0.00
ATOM	4331	H	GLU	X	288	50.972	26.986	59.792	0.00	0.00
ATOM	4332	CA	GLU	X	288	49.728	25.382	59.227	0.00	0.00
ATOM	4333	HA	GLU	X	288	50.616	25.209	58.620	0.00	0.00
ATOM	4334	CB	GLU	X	288	49.658	24.348	60.304	0.00	0.00
ATOM	4335	HB2	GLU	X	288	48.768	24.508	60.913	0.00	0.00
ATOM	4336	HB3	GLU	X	288	49.553	23.364	59.847	0.00	0.00
ATOM	4337	CG	GLU	X	288	50.907	24.472	61.263	0.00	0.00
ATOM	4338	HG2	GLU	X	288	51.790	24.371	60.633	0.00	0.00
ATOM	4339	HG3	GLU	X	288	50.836	25.391	61.845	0.00	0.00
ATOM	4340	CD	GLU	X	288	50.944	23.360	62.346	0.00	0.00
ATOM	4341	OE1	GLU	X	288	51.259	23.681	63.552	0.00	0.00
ATOM	4342	OE2	GLU	X	288	50.619	22.207	61.994	0.00	0.00
ATOM	4343	C	GLU	X	288	48.805	25.287	58.050	0.00	0.00
ATOM	4344	O	GLU	X	288	48.037	24.310	57.933	0.00	0.00
ATOM	4345	N	SER	X	289	48.762	26.297	57.191	0.00	0.00
ATOM	4346	H	SER	X	289	49.262	27.134	57.455	0.00	0.00
ATOM	4347	CA	SER	X	289	47.676	26.498	56.198	0.00	0.00
ATOM	4348	HA	SER	X	289	47.381	25.496	55.886	0.00	0.00
ATOM	4349	CB	SER	X	289	46.482	27.344	56.635	0.00	0.00
ATOM	4350	HB2	SER	X	289	46.048	26.783	57.463	0.00	0.00
ATOM	4351	HB3	SER	X	289	46.773	28.265	57.141	0.00	0.00
ATOM	4352	OG	SER	X	289	45.383	27.374	55.757	0.00	0.00
ATOM	4353	HG	SER	X	289	44.600	27.539	56.289	0.00	0.00
ATOM	4354	C	SER	X	289	48.343	27.378	55.066	0.00	0.00
ATOM	4355	O	SER	X	289	48.803	28.488	55.319	0.00	0.00
ATOM	4356	N	VAL	X	290	48.368	26.943	53.837	0.00	0.00
ATOM	4357	H	VAL	X	290	47.880	26.074	53.671	0.00	0.00
ATOM	4358	CA	VAL	X	290	49.175	27.638	52.800	0.00	0.00
ATOM	4359	HA	VAL	X	290	49.820	28.376	53.277	0.00	0.00
ATOM	4360	CB	VAL	X	290	50.077	26.658	52.036	0.00	0.00
ATOM	4361	HB	VAL	X	290	49.432	25.896	51.599	0.00	0.00
ATOM	4362	CG1	VAL	X	290	50.878	27.317	50.873	0.00	0.00
ATOM	4363	HG11	VAL	X	290	51.395	28.203	51.242	0.00	0.00
ATOM	4364	HG12	VAL	X	290	51.428	26.520	50.371	0.00	0.00
ATOM	4365	HG13	VAL	X	290	50.185	27.663	50.106	0.00	0.00
ATOM	4366	CG2	VAL	X	290	51.137	26.036	52.954	0.00	0.00
ATOM	4367	HG21	VAL	X	290	51.518	25.185	52.388	0.00	0.00
ATOM	4368	HG22	VAL	X	290	51.899	26.774	53.204	0.00	0.00
ATOM	4369	HG23	VAL	X	290	50.618	25.620	53.818	0.00	0.00
ATOM	4370	C	VAL	X	290	48.104	28.378	51.994	0.00	0.00
ATOM	4371	O	VAL	X	290	47.119	27.820	51.533	0.00	0.00
ATOM	4372	N	PHE	X	291	48.342	29.653	51.682	0.00	0.00
ATOM	4373	H	PHE	X	291	49.142	30.135	52.067	0.00	0.00
ATOM	4374	CA	PHE	X	291	47.515	30.536	50.877	0.00	0.00
ATOM	4375	HA	PHE	X	291	48.070	31.471	50.796	0.00	0.00
ATOM	4376	CB	PHE	X	291	47.222	29.960	49.465	0.00	0.00
ATOM	4377	HB2	PHE	X	291	48.055	29.323	49.169	0.00	0.00
ATOM	4378	HB3	PHE	X	291	46.246	29.484	49.375	0.00	0.00
ATOM	4379	CG	PHE	X	291	47.322	30.916	48.315	0.00	0.00
ATOM	4380	CD1	PHE	X	291	46.463	31.942	48.270	0.00	0.00
ATOM	4381	HD1	PHE	X	291	45.779	32.125	49.086	0.00	0.00

ATOM	4382	CE1	PHE	X	291	46.386	32.686	47.093	0.00	0.00
ATOM	4383	HE1	PHE	X	291	45.735	33.541	46.978	0.00	0.00
ATOM	4384	CZ	PHE	X	291	47.084	32.313	45.912	0.00	0.00
ATOM	4385	HZ	PHE	X	291	46.962	32.900	45.014	0.00	0.00
ATOM	4386	CE2	PHE	X	291	47.898	31.189	45.897	0.00	0.00
ATOM	4387	HE2	PHE	X	291	48.337	30.739	45.019	0.00	0.00
ATOM	4388	CD2	PHE	X	291	48.024	30.516	47.131	0.00	0.00
ATOM	4389	HD2	PHE	X	291	48.477	29.537	47.089	0.00	0.00
ATOM	4390	C	PHE	X	291	46.291	30.988	51.671	0.00	0.00
ATOM	4391	O	PHE	X	291	45.180	30.961	51.113	0.00	0.00
ATOM	4392	N	ARG	X	292	46.489	31.285	52.942	0.00	0.00
ATOM	4393	H	ARG	X	292	47.385	31.021	53.327	0.00	0.00
ATOM	4394	CA	ARG	X	292	45.407	31.887	53.833	0.00	0.00
ATOM	4395	HA	ARG	X	292	44.782	32.431	53.124	0.00	0.00
ATOM	4396	CB	ARG	X	292	44.725	30.786	54.615	0.00	0.00
ATOM	4397	HB2	ARG	X	292	45.519	30.335	55.210	0.00	0.00
ATOM	4398	HB3	ARG	X	292	43.993	31.247	55.278	0.00	0.00
ATOM	4399	CG	ARG	X	292	44.114	29.611	53.861	0.00	0.00
ATOM	4400	HG2	ARG	X	292	44.866	29.260	53.155	0.00	0.00
ATOM	4401	HG3	ARG	X	292	43.788	28.856	54.577	0.00	0.00
ATOM	4402	CD	ARG	X	292	42.876	29.957	53.095	0.00	0.00
ATOM	4403	HD2	ARG	X	292	42.025	29.849	53.767	0.00	0.00
ATOM	4404	HD3	ARG	X	292	42.893	31.039	52.961	0.00	0.00
ATOM	4405	NE	ARG	X	292	42.726	29.135	51.827	0.00	0.00
ATOM	4406	HE	ARG	X	292	43.404	29.318	51.101	0.00	0.00
ATOM	4407	CZ	ARG	X	292	41.736	28.246	51.587	0.00	0.00
ATOM	4408	NH1	ARG	X	292	40.865	27.902	52.499	0.00	0.00
ATOM	4409	HH11	ARG	X	292	41.020	28.220	53.445	0.00	0.00
ATOM	4410	HH12	ARG	X	292	39.982	27.469	52.267	0.00	0.00
ATOM	4411	NH2	ARG	X	292	41.715	27.561	50.489	0.00	0.00
ATOM	4412	HH21	ARG	X	292	42.345	27.695	49.710	0.00	0.00
ATOM	4413	HH22	ARG	X	292	41.120	26.754	50.367	0.00	0.00
ATOM	4414	C	ARG	X	292	45.994	32.978	54.739	0.00	0.00
ATOM	4415	O	ARG	X	292	47.137	32.975	55.144	0.00	0.00
ATOM	4416	N	PHE	X	293	45.069	33.871	55.104	0.00	0.00
ATOM	4417	H	PHE	X	293	44.145	33.603	54.799	0.00	0.00
ATOM	4418	CA	PHE	X	293	45.319	35.296	55.481	0.00	0.00
ATOM	4419	HA	PHE	X	293	46.370	35.521	55.662	0.00	0.00
ATOM	4420	CB	PHE	X	293	45.041	36.125	54.205	0.00	0.00
ATOM	4421	HB2	PHE	X	293	43.971	36.305	54.094	0.00	0.00
ATOM	4422	HB3	PHE	X	293	45.411	37.147	54.281	0.00	0.00
ATOM	4423	CG	PHE	X	293	45.708	35.605	52.910	0.00	0.00
ATOM	4424	CD1	PHE	X	293	47.070	35.338	52.967	0.00	0.00
ATOM	4425	HD1	PHE	X	293	47.635	35.593	53.852	0.00	0.00
ATOM	4426	CE1	PHE	X	293	47.845	34.856	51.847	0.00	0.00
ATOM	4427	HE1	PHE	X	293	48.904	34.648	51.806	0.00	0.00
ATOM	4428	CZ	PHE	X	293	47.126	34.645	50.675	0.00	0.00
ATOM	4429	HZ	PHE	X	293	47.591	34.204	49.806	0.00	0.00
ATOM	4430	CE2	PHE	X	293	45.727	34.902	50.570	0.00	0.00
ATOM	4431	HE2	PHE	X	293	45.263	34.513	49.676	0.00	0.00
ATOM	4432	CD2	PHE	X	293	45.060	35.351	51.715	0.00	0.00
ATOM	4433	HD2	PHE	X	293	43.983	35.414	51.648	0.00	0.00
ATOM	4434	C	PHE	X	293	44.641	35.850	56.711	0.00	0.00
ATOM	4435	O	PHE	X	293	43.612	35.316	57.121	0.00	0.00
ATOM	4436	N	SER	X	294	45.121	36.967	57.266	0.00	0.00
ATOM	4437	H	SER	X	294	45.820	37.488	56.755	0.00	0.00
ATOM	4438	CA	SER	X	294	44.625	37.744	58.398	0.00	0.00
ATOM	4439	HA	SER	X	294	44.503	37.060	59.238	0.00	0.00
ATOM	4440	CB	SER	X	294	45.714	38.734	58.821	0.00	0.00
ATOM	4441	HB2	SER	X	294	45.347	39.296	59.679	0.00	0.00
ATOM	4442	HB3	SER	X	294	46.621	38.174	59.049	0.00	0.00
ATOM	4443	OG	SER	X	294	46.091	39.584	57.748	0.00	0.00
ATOM	4444	HG	SER	X	294	46.737	40.244	58.008	0.00	0.00
ATOM	4445	C	SER	X	294	43.311	38.420	58.143	0.00	0.00
ATOM	4446	O	SER	X	294	42.300	37.943	58.709	0.00	0.00
ATOM	4447	N	PHE	X	295	43.278	39.401	57.288	0.00	0.00
ATOM	4448	H	PHE	X	295	44.004	39.508	56.594	0.00	0.00
ATOM	4449	CA	PHE	X	295	42.032	40.120	57.008	0.00	0.00
ATOM	4450	HA	PHE	X	295	41.222	39.621	57.540	0.00	0.00
ATOM	4451	CB	PHE	X	295	42.061	41.523	57.623	0.00	0.00

ATOM	4452	HB2	PHE	X	295	42.990	42.035	57.370	0.00	0.00
ATOM	4453	HB3	PHE	X	295	41.206	42.074	57.230	0.00	0.00
ATOM	4454	CG	PHE	X	295	41.885	41.427	59.156	0.00	0.00
ATOM	4455	CD1	PHE	X	295	40.654	41.759	59.698	0.00	0.00
ATOM	4456	HD1	PHE	X	295	39.782	41.930	59.083	0.00	0.00
ATOM	4457	CE1	PHE	X	295	40.441	41.697	61.083	0.00	0.00
ATOM	4458	HE1	PHE	X	295	39.491	41.792	61.588	0.00	0.00
ATOM	4459	CZ	PHE	X	295	41.560	41.564	61.981	0.00	0.00
ATOM	4460	HZ	PHE	X	295	41.475	41.727	63.045	0.00	0.00
ATOM	4461	CE2	PHE	X	295	42.839	41.334	61.357	0.00	0.00
ATOM	4462	HE2	PHE	X	295	43.646	41.241	62.068	0.00	0.00
ATOM	4463	CD2	PHE	X	295	42.976	41.167	59.956	0.00	0.00
ATOM	4464	HD2	PHE	X	295	43.948	41.039	59.502	0.00	0.00
ATOM	4465	C	PHE	X	295	41.747	40.308	55.485	0.00	0.00
ATOM	4466	O	PHE	X	295	42.405	41.104	54.785	0.00	0.00
ATOM	4467	N	VAL	X	296	40.793	39.486	55.024	0.00	0.00
ATOM	4468	H	VAL	X	296	40.260	38.941	55.686	0.00	0.00
ATOM	4469	CA	VAL	X	296	40.210	39.573	53.692	0.00	0.00
ATOM	4470	HA	VAL	X	296	40.721	40.280	53.040	0.00	0.00
ATOM	4471	CB	VAL	X	296	40.203	38.134	52.954	0.00	0.00
ATOM	4472	HB	VAL	X	296	39.787	38.250	51.953	0.00	0.00
ATOM	4473	CG1	VAL	X	296	41.598	37.619	52.797	0.00	0.00
ATOM	4474	HG11	VAL	X	296	42.215	38.444	52.441	0.00	0.00
ATOM	4475	HG12	VAL	X	296	41.972	37.244	53.749	0.00	0.00
ATOM	4476	HG13	VAL	X	296	41.578	36.896	51.982	0.00	0.00
ATOM	4477	CG2	VAL	X	296	39.487	37.098	53.770	0.00	0.00
ATOM	4478	HG21	VAL	X	296	39.577	36.091	53.362	0.00	0.00
ATOM	4479	HG22	VAL	X	296	39.916	37.099	54.772	0.00	0.00
ATOM	4480	HG23	VAL	X	296	38.448	37.403	53.895	0.00	0.00
ATOM	4481	C	VAL	X	296	38.792	40.070	53.897	0.00	0.00
ATOM	4482	O	VAL	X	296	38.278	39.895	54.989	0.00	0.00
ATOM	4483	N	PRO	X	297	38.105	40.535	52.805	0.00	0.00
ATOM	4484	CD	PRO	X	297	38.722	40.783	51.496	0.00	0.00
ATOM	4485	HD2	PRO	X	297	39.052	39.841	51.058	0.00	0.00
ATOM	4486	HD3	PRO	X	297	39.681	41.287	51.619	0.00	0.00
ATOM	4487	CG	PRO	X	297	37.681	41.441	50.614	0.00	0.00
ATOM	4488	HG2	PRO	X	297	37.908	41.344	49.552	0.00	0.00
ATOM	4489	HG3	PRO	X	297	37.705	42.508	50.839	0.00	0.00
ATOM	4490	CB	PRO	X	297	36.409	40.876	51.165	0.00	0.00
ATOM	4491	HB2	PRO	X	297	36.222	39.840	50.882	0.00	0.00
ATOM	4492	HB3	PRO	X	297	35.520	41.415	50.836	0.00	0.00
ATOM	4493	CA	PRO	X	297	36.685	40.827	52.686	0.00	0.00
ATOM	4494	HA	PRO	X	297	36.566	41.832	53.091	0.00	0.00
ATOM	4495	C	PRO	X	297	35.744	39.905	53.496	0.00	0.00
ATOM	4496	O	PRO	X	297	35.720	38.674	53.364	0.00	0.00
ATOM	4497	N	VAL	X	298	34.919	40.563	54.315	0.00	0.00
ATOM	4498	H	VAL	X	298	34.998	41.569	54.367	0.00	0.00
ATOM	4499	CA	VAL	X	298	33.725	39.997	54.898	0.00	0.00
ATOM	4500	HA	VAL	X	298	34.133	39.017	55.148	0.00	0.00
ATOM	4501	CB	VAL	X	298	33.362	40.726	56.224	0.00	0.00
ATOM	4502	HB	VAL	X	298	32.410	40.384	56.630	0.00	0.00
ATOM	4503	CG1	VAL	X	298	34.390	40.475	57.375	0.00	0.00
ATOM	4504	HG11	VAL	X	298	35.343	40.975	57.199	0.00	0.00
ATOM	4505	HG12	VAL	X	298	34.018	40.736	58.365	0.00	0.00
ATOM	4506	HG13	VAL	X	298	34.605	39.407	57.424	0.00	0.00
ATOM	4507	CG2	VAL	X	298	33.104	42.231	56.023	0.00	0.00
ATOM	4508	HG21	VAL	X	298	32.317	42.319	55.274	0.00	0.00
ATOM	4509	HG22	VAL	X	298	32.742	42.605	56.981	0.00	0.00
ATOM	4510	HG23	VAL	X	298	34.013	42.798	55.819	0.00	0.00
ATOM	4511	C	VAL	X	298	32.542	39.893	53.901	0.00	0.00
ATOM	4512	O	VAL	X	298	32.314	40.765	53.057	0.00	0.00
ATOM	4513	N	VAL	X	299	31.810	38.780	54.047	0.00	0.00
ATOM	4514	H	VAL	X	299	32.206	38.003	54.556	0.00	0.00
ATOM	4515	CA	VAL	X	299	30.471	38.733	53.440	0.00	0.00
ATOM	4516	HA	VAL	X	299	30.514	39.259	52.487	0.00	0.00
ATOM	4517	CB	VAL	X	299	29.851	37.332	53.274	0.00	0.00
ATOM	4518	HB	VAL	X	299	29.898	36.867	54.259	0.00	0.00
ATOM	4519	CG1	VAL	X	299	28.341	37.350	52.849	0.00	0.00
ATOM	4520	HG11	VAL	X	299	27.656	37.588	53.662	0.00	0.00
ATOM	4521	HG12	VAL	X	299	28.156	37.820	51.883	0.00	0.00

ATOM	4522	HG13	VAL	X	299	28.044	36.313	52.692	0.00	0.00
ATOM	4523	CG2	VAL	X	299	30.528	36.549	52.146	0.00	0.00
ATOM	4524	HG21	VAL	X	299	30.086	35.559	52.036	0.00	0.00
ATOM	4525	HG22	VAL	X	299	30.525	37.093	51.202	0.00	0.00
ATOM	4526	HG23	VAL	X	299	31.557	36.439	52.489	0.00	0.00
ATOM	4527	C	VAL	X	299	29.542	39.615	54.291	0.00	0.00
ATOM	4528	O	VAL	X	299	29.090	39.162	55.332	0.00	0.00
ATOM	4529	N	ASP	X	300	29.242	40.823	53.811	0.00	0.00
ATOM	4530	H	ASP	X	300	29.597	41.110	52.911	0.00	0.00
ATOM	4531	CA	ASP	X	300	28.634	41.909	54.619	0.00	0.00
ATOM	4532	HA	ASP	X	300	28.783	41.737	55.685	0.00	0.00
ATOM	4533	CB	ASP	X	300	29.411	43.213	54.306	0.00	0.00
ATOM	4534	HB2	ASP	X	300	29.330	43.907	55.142	0.00	0.00
ATOM	4535	HB3	ASP	X	300	30.465	42.936	54.292	0.00	0.00
ATOM	4536	CG	ASP	X	300	29.107	44.000	53.043	0.00	0.00
ATOM	4537	OD1	ASP	X	300	29.035	43.328	51.999	0.00	0.00
ATOM	4538	OD2	ASP	X	300	28.922	45.253	53.096	0.00	0.00
ATOM	4539	C	ASP	X	300	27.116	42.188	54.387	0.00	0.00
ATOM	4540	O	ASP	X	300	26.422	42.883	55.150	0.00	0.00
ATOM	4541	N	GLY	X	301	26.588	41.746	53.244	0.00	0.00
ATOM	4542	H	GLY	X	301	27.019	41.015	52.697	0.00	0.00
ATOM	4543	CA	GLY	X	301	25.203	41.905	52.916	0.00	0.00
ATOM	4544	HA2	GLY	X	301	24.899	41.039	52.268	0.00	0.00
ATOM	4545	HA3	GLY	X	301	24.475	41.867	53.735	0.00	0.00
ATOM	4546	C	GLY	X	301	24.835	43.120	52.101	0.00	0.00
ATOM	4547	O	GLY	X	301	23.639	43.449	51.921	0.00	0.00
ATOM	4548	N	ASP	X	302	25.773	43.895	51.517	0.00	0.00
ATOM	4549	H	ASP	X	302	26.718	43.657	51.782	0.00	0.00
ATOM	4550	CA	ASP	X	302	25.629	45.115	50.717	0.00	0.00
ATOM	4551	HA	ASP	X	302	24.662	45.146	50.215	0.00	0.00
ATOM	4552	CB	ASP	X	302	25.579	46.370	51.689	0.00	0.00
ATOM	4553	HB2	ASP	X	302	24.666	46.398	52.282	0.00	0.00
ATOM	4554	HB3	ASP	X	302	26.381	46.171	52.401	0.00	0.00
ATOM	4555	CG	ASP	X	302	25.660	47.732	50.896	0.00	0.00
ATOM	4556	OD1	ASP	X	302	26.766	48.217	50.650	0.00	0.00
ATOM	4557	OD2	ASP	X	302	24.622	48.350	50.619	0.00	0.00
ATOM	4558	C	ASP	X	302	26.814	45.307	49.663	0.00	0.00
ATOM	4559	O	ASP	X	302	26.545	45.718	48.519	0.00	0.00
ATOM	4560	N	PHE	X	303	28.094	45.007	49.971	0.00	0.00
ATOM	4561	H	PHE	X	303	28.467	44.868	50.899	0.00	0.00
ATOM	4562	CA	PHE	X	303	29.196	44.835	48.974	0.00	0.00
ATOM	4563	HA	PHE	X	303	29.009	45.580	48.200	0.00	0.00
ATOM	4564	CB	PHE	X	303	30.523	45.206	49.541	0.00	0.00
ATOM	4565	HB2	PHE	X	303	30.443	45.939	50.343	0.00	0.00
ATOM	4566	HB3	PHE	X	303	30.920	44.284	49.966	0.00	0.00
ATOM	4567	CG	PHE	X	303	31.502	45.738	48.497	0.00	0.00
ATOM	4568	CD1	PHE	X	303	31.930	44.972	47.361	0.00	0.00
ATOM	4569	HD1	PHE	X	303	31.429	44.017	47.301	0.00	0.00
ATOM	4570	CE1	PHE	X	303	32.880	45.538	46.459	0.00	0.00
ATOM	4571	HE1	PHE	X	303	33.278	44.979	45.625	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.164	46.921	46.609	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.811	47.406	45.893	0.00	0.00
ATOM	4574	CE2	PHE	X	303	32.814	47.601	47.756	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.031	48.658	47.729	0.00	0.00
ATOM	4576	CD2	PHE	X	303	32.073	47.000	48.755	0.00	0.00
ATOM	4577	HD2	PHE	X	303	31.858	47.559	49.654	0.00	0.00
ATOM	4578	C	PHE	X	303	29.089	43.354	48.400	0.00	0.00
ATOM	4579	O	PHE	X	303	29.191	43.174	47.146	0.00	0.00
ATOM	4580	N	LEU	X	304	28.919	42.381	49.286	0.00	0.00
ATOM	4581	H	LEU	X	304	28.857	42.703	50.241	0.00	0.00
ATOM	4582	CA	LEU	X	304	28.682	40.948	48.993	0.00	0.00
ATOM	4583	HA	LEU	X	304	28.512	40.803	47.927	0.00	0.00
ATOM	4584	CB	LEU	X	304	29.926	40.136	49.459	0.00	0.00
ATOM	4585	HB2	LEU	X	304	30.095	40.154	50.535	0.00	0.00
ATOM	4586	HB3	LEU	X	304	29.618	39.109	49.266	0.00	0.00
ATOM	4587	CG	LEU	X	304	31.346	40.471	48.819	0.00	0.00
ATOM	4588	HG	LEU	X	304	31.532	41.538	48.942	0.00	0.00
ATOM	4589	CD1	LEU	X	304	32.357	39.533	49.486	0.00	0.00
ATOM	4590	HD11	LEU	X	304	32.929	39.946	50.317	0.00	0.00
ATOM	4591	HD12	LEU	X	304	31.847	38.643	49.855	0.00	0.00

ATOM	4592	HD13	LEU	X	304	33.189	39.386	48.798	0.00	0.00
ATOM	4593	CD2	LEU	X	304	31.250	40.143	47.360	0.00	0.00
ATOM	4594	HD21	LEU	X	304	31.079	39.074	47.230	0.00	0.00
ATOM	4595	HD22	LEU	X	304	30.474	40.730	46.869	0.00	0.00
ATOM	4596	HD23	LEU	X	304	32.218	40.488	46.997	0.00	0.00
ATOM	4597	C	LEU	X	304	27.371	40.609	49.680	0.00	0.00
ATOM	4598	O	LEU	X	304	27.352	40.296	50.880	0.00	0.00
ATOM	4599	N	SER	X	305	26.287	40.542	48.893	0.00	0.00
ATOM	4600	H	SER	X	305	26.259	40.904	47.950	0.00	0.00
ATOM	4601	CA	SER	X	305	24.972	40.000	49.389	0.00	0.00
ATOM	4602	HA	SER	X	305	24.642	40.624	50.220	0.00	0.00
ATOM	4603	CB	SER	X	305	23.900	40.154	48.350	0.00	0.00
ATOM	4604	HB2	SER	X	305	24.141	39.439	47.563	0.00	0.00
ATOM	4605	HB3	SER	X	305	22.911	39.806	48.647	0.00	0.00
ATOM	4606	OG	SER	X	305	23.824	41.493	47.919	0.00	0.00
ATOM	4607	HG	SER	X	305	23.050	41.751	48.425	0.00	0.00
ATOM	4608	C	SER	X	305	25.018	38.598	49.955	0.00	0.00
ATOM	4609	O	SER	X	305	24.132	38.328	50.791	0.00	0.00
ATOM	4610	N	ASP	X	306	25.974	37.751	49.463	0.00	0.00
ATOM	4611	H	ASP	X	306	26.708	38.162	48.904	0.00	0.00
ATOM	4612	CA	ASP	X	306	26.154	36.373	49.823	0.00	0.00
ATOM	4613	HA	ASP	X	306	26.159	36.418	50.912	0.00	0.00
ATOM	4614	CB	ASP	X	306	25.060	35.415	49.305	0.00	0.00
ATOM	4615	HB2	ASP	X	306	24.097	35.726	49.711	0.00	0.00
ATOM	4616	HB3	ASP	X	306	24.997	35.462	48.218	0.00	0.00
ATOM	4617	CG	ASP	X	306	25.179	33.939	49.900	0.00	0.00
ATOM	4618	OD1	ASP	X	306	24.869	33.015	49.135	0.00	0.00
ATOM	4619	OD2	ASP	X	306	25.644	33.822	51.021	0.00	0.00
ATOM	4620	C	ASP	X	306	27.578	35.939	49.411	0.00	0.00
ATOM	4621	O	ASP	X	306	28.221	36.697	48.713	0.00	0.00
ATOM	4622	N	THR	X	307	27.993	34.725	49.744	0.00	0.00
ATOM	4623	H	THR	X	307	27.351	34.344	50.424	0.00	0.00
ATOM	4624	CA	THR	X	307	29.296	34.099	49.456	0.00	0.00
ATOM	4625	HA	THR	X	307	30.070	34.725	49.900	0.00	0.00
ATOM	4626	CB	THR	X	307	29.470	32.677	50.047	0.00	0.00
ATOM	4627	HB	THR	X	307	28.763	32.073	49.477	0.00	0.00
ATOM	4628	CG2	THR	X	307	30.815	32.063	49.747	0.00	0.00
ATOM	4629	HG21	THR	X	307	31.010	31.127	50.271	0.00	0.00
ATOM	4630	HG22	THR	X	307	30.899	31.909	48.671	0.00	0.00
ATOM	4631	HG23	THR	X	307	31.642	32.672	50.110	0.00	0.00
ATOM	4632	OG1	THR	X	307	29.331	32.716	51.379	0.00	0.00
ATOM	4633	HG1	THR	X	307	29.147	31.820	51.670	0.00	0.00
ATOM	4634	C	THR	X	307	29.617	34.211	47.989	0.00	0.00
ATOM	4635	O	THR	X	307	28.814	33.648	47.289	0.00	0.00
ATOM	4636	N	PRO	X	308	30.781	34.844	47.586	0.00	0.00
ATOM	4637	CD	PRO	X	308	31.847	35.484	48.355	0.00	0.00
ATOM	4638	HD2	PRO	X	308	32.361	34.676	48.875	0.00	0.00
ATOM	4639	HD3	PRO	X	308	31.245	36.105	49.018	0.00	0.00
ATOM	4640	CG	PRO	X	308	32.719	36.231	47.401	0.00	0.00
ATOM	4641	HG2	PRO	X	308	33.753	36.119	47.726	0.00	0.00
ATOM	4642	HG3	PRO	X	308	32.424	37.275	47.297	0.00	0.00
ATOM	4643	CB	PRO	X	308	32.470	35.447	46.148	0.00	0.00
ATOM	4644	HB2	PRO	X	308	33.024	34.512	46.070	0.00	0.00
ATOM	4645	HB3	PRO	X	308	32.731	36.051	45.279	0.00	0.00
ATOM	4646	CA	PRO	X	308	31.047	35.057	46.179	0.00	0.00
ATOM	4647	HA	PRO	X	308	30.500	35.862	45.688	0.00	0.00
ATOM	4648	C	PRO	X	308	30.813	33.772	45.279	0.00	0.00
ATOM	4649	O	PRO	X	308	30.390	33.926	44.142	0.00	0.00
ATOM	4650	N	GLU	X	309	31.113	32.492	45.687	0.00	0.00
ATOM	4651	H	GLU	X	309	31.583	32.310	46.563	0.00	0.00
ATOM	4652	CA	GLU	X	309	30.844	31.294	44.869	0.00	0.00
ATOM	4653	HA	GLU	X	309	31.396	31.458	43.943	0.00	0.00
ATOM	4654	CB	GLU	X	309	31.450	30.010	45.501	0.00	0.00
ATOM	4655	HB2	GLU	X	309	32.491	30.293	45.654	0.00	0.00
ATOM	4656	HB3	GLU	X	309	30.955	29.863	46.461	0.00	0.00
ATOM	4657	CG	GLU	X	309	31.531	28.808	44.551	0.00	0.00
ATOM	4658	HG2	GLU	X	309	30.528	28.401	44.431	0.00	0.00
ATOM	4659	HG3	GLU	X	309	32.051	29.051	43.624	0.00	0.00
ATOM	4660	CD	GLU	X	309	32.207	27.669	45.216	0.00	0.00
ATOM	4661	OE1	GLU	X	309	31.580	26.663	45.498	0.00	0.00

ATOM	4662	OE2	GLU	X	309	33.471	27.702	45.389	0.00	0.00
ATOM	4663	C	GLU	X	309	29.306	31.094	44.545	0.00	0.00
ATOM	4664	O	GLU	X	309	28.920	30.548	43.506	0.00	0.00
ATOM	4665	N	ALA	X	310	28.474	31.608	45.378	0.00	0.00
ATOM	4666	H	ALA	X	310	28.781	31.951	46.278	0.00	0.00
ATOM	4667	CA	ALA	X	310	27.074	31.764	45.168	0.00	0.00
ATOM	4668	HA	ALA	X	310	26.792	30.880	44.596	0.00	0.00
ATOM	4669	CB	ALA	X	310	26.303	31.670	46.496	0.00	0.00
ATOM	4670	HB1	ALA	X	310	26.187	32.650	46.960	0.00	0.00
ATOM	4671	HB2	ALA	X	310	25.335	31.206	46.308	0.00	0.00
ATOM	4672	HB3	ALA	X	310	26.856	31.152	47.279	0.00	0.00
ATOM	4673	C	ALA	X	310	26.683	32.915	44.219	0.00	0.00
ATOM	4674	O	ALA	X	310	25.782	32.775	43.350	0.00	0.00
ATOM	4675	N	LEU	X	311	27.341	34.048	44.343	0.00	0.00
ATOM	4676	H	LEU	X	311	28.200	33.947	44.864	0.00	0.00
ATOM	4677	CA	LEU	X	311	27.020	35.300	43.676	0.00	0.00
ATOM	4678	HA	LEU	X	311	25.941	35.434	43.757	0.00	0.00
ATOM	4679	CB	LEU	X	311	27.687	36.515	44.240	0.00	0.00
ATOM	4680	HB2	LEU	X	311	28.762	36.397	44.105	0.00	0.00
ATOM	4681	HB3	LEU	X	311	27.385	37.373	43.639	0.00	0.00
ATOM	4682	CG	LEU	X	311	27.367	36.929	45.675	0.00	0.00
ATOM	4683	HG	LEU	X	311	27.643	36.106	46.335	0.00	0.00
ATOM	4684	CD1	LEU	X	311	28.237	38.081	46.115	0.00	0.00
ATOM	4685	HD11	LEU	X	311	29.289	37.796	46.105	0.00	0.00
ATOM	4686	HD12	LEU	X	311	28.142	38.888	45.389	0.00	0.00
ATOM	4687	HD13	LEU	X	311	27.853	38.513	47.039	0.00	0.00
ATOM	4688	CD2	LEU	X	311	25.885	37.211	45.780	0.00	0.00
ATOM	4689	HD21	LEU	X	311	25.353	36.262	45.839	0.00	0.00
ATOM	4690	HD22	LEU	X	311	25.797	37.713	46.744	0.00	0.00
ATOM	4691	HD23	LEU	X	311	25.585	37.996	45.086	0.00	0.00
ATOM	4692	C	LEU	X	311	27.420	35.138	42.196	0.00	0.00
ATOM	4693	O	LEU	X	311	26.681	35.639	41.353	0.00	0.00
ATOM	4694	N	ILE	X	312	28.481	34.446	41.894	0.00	0.00
ATOM	4695	H	ILE	X	312	29.125	34.243	42.646	0.00	0.00
ATOM	4696	CA	ILE	X	312	28.912	34.346	40.462	0.00	0.00
ATOM	4697	HA	ILE	X	312	28.826	35.373	40.107	0.00	0.00
ATOM	4698	CB	ILE	X	312	30.389	33.936	40.397	0.00	0.00
ATOM	4699	HB	ILE	X	312	30.981	34.710	40.886	0.00	0.00
ATOM	4700	CG2	ILE	X	312	30.708	32.568	40.993	0.00	0.00
ATOM	4701	HG21	ILE	X	312	30.136	32.259	41.868	0.00	0.00
ATOM	4702	HG22	ILE	X	312	30.452	31.802	40.261	0.00	0.00
ATOM	4703	HG23	ILE	X	312	31.786	32.597	41.145	0.00	0.00
ATOM	4704	CG1	ILE	X	312	30.965	34.044	38.963	0.00	0.00
ATOM	4705	HG12	ILE	X	312	31.953	33.585	39.006	0.00	0.00
ATOM	4706	HG13	ILE	X	312	30.286	33.470	38.332	0.00	0.00
ATOM	4707	CD1	ILE	X	312	31.208	35.511	38.554	0.00	0.00
ATOM	4708	HD11	ILE	X	312	31.321	35.581	37.472	0.00	0.00
ATOM	4709	HD12	ILE	X	312	30.322	36.138	38.650	0.00	0.00
ATOM	4710	HD13	ILE	X	312	32.138	35.876	38.992	0.00	0.00
ATOM	4711	C	ILE	X	312	27.917	33.490	39.625	0.00	0.00
ATOM	4712	O	ILE	X	312	27.915	33.731	38.363	0.00	0.00
ATOM	4713	N	ASN	X	313	26.990	32.704	40.199	0.00	0.00
ATOM	4714	H	ASN	X	313	27.025	32.618	41.205	0.00	0.00
ATOM	4715	CA	ASN	X	313	25.896	32.113	39.364	0.00	0.00
ATOM	4716	HA	ASN	X	313	26.058	32.004	38.291	0.00	0.00
ATOM	4717	CB	ASN	X	313	25.596	30.691	39.954	0.00	0.00
ATOM	4718	HB2	ASN	X	313	26.432	30.005	39.814	0.00	0.00
ATOM	4719	HB3	ASN	X	313	25.302	30.792	40.999	0.00	0.00
ATOM	4720	CG	ASN	X	313	24.304	30.165	39.258	0.00	0.00
ATOM	4721	OD1	ASN	X	313	24.223	29.917	38.023	0.00	0.00
ATOM	4722	ND2	ASN	X	313	23.144	30.232	39.910	0.00	0.00
ATOM	4723	HD21	ASN	X	313	22.304	30.134	39.358	0.00	0.00
ATOM	4724	HD22	ASN	X	313	23.133	30.446	40.897	0.00	0.00
ATOM	4725	C	ASN	X	313	24.560	33.009	39.325	0.00	0.00
ATOM	4726	O	ASN	X	313	23.797	33.069	38.353	0.00	0.00
ATOM	4727	N	ALA	X	314	24.355	33.740	40.383	0.00	0.00
ATOM	4728	H	ALA	X	314	25.173	33.862	40.962	0.00	0.00
ATOM	4729	CA	ALA	X	314	23.132	34.570	40.689	0.00	0.00
ATOM	4730	HA	ALA	X	314	22.266	33.909	40.660	0.00	0.00
ATOM	4731	CB	ALA	X	314	23.320	35.047	42.181	0.00	0.00

ATOM	4732	HB1	ALA	X	314	22.431	35.575	42.526	0.00	0.00
ATOM	4733	HB2	ALA	X	314	23.481	34.208	42.858	0.00	0.00
ATOM	4734	HB3	ALA	X	314	24.208	35.665	42.319	0.00	0.00
ATOM	4735	C	ALA	X	314	22.955	35.779	39.785	0.00	0.00
ATOM	4736	O	ALA	X	314	21.865	36.408	39.810	0.00	0.00
ATOM	4737	N	GLY	X	315	23.963	36.315	39.097	0.00	0.00
ATOM	4738	H	GLY	X	315	24.874	35.902	39.236	0.00	0.00
ATOM	4739	CA	GLY	X	315	24.021	37.668	38.403	0.00	0.00
ATOM	4740	HA2	GLY	X	315	23.243	38.323	38.855	0.00	0.00
ATOM	4741	HA3	GLY	X	315	25.009	38.099	38.456	0.00	0.00
ATOM	4742	C	GLY	X	315	23.701	37.539	36.906	0.00	0.00
ATOM	4743	O	GLY	X	315	24.178	36.688	36.169	0.00	0.00
ATOM	4744	N	ASP	X	316	23.069	38.555	36.450	0.00	0.00
ATOM	4745	H	ASP	X	316	22.722	39.173	37.170	0.00	0.00
ATOM	4746	CA	ASP	X	316	22.981	38.959	35.012	0.00	0.00
ATOM	4747	HA	ASP	X	316	23.013	38.023	34.454	0.00	0.00
ATOM	4748	CB	ASP	X	316	21.645	39.612	34.743	0.00	0.00
ATOM	4749	HB2	ASP	X	316	20.834	39.131	35.290	0.00	0.00
ATOM	4750	HB3	ASP	X	316	21.659	40.647	35.086	0.00	0.00
ATOM	4751	CG	ASP	X	316	21.175	39.525	33.252	0.00	0.00
ATOM	4752	OD1	ASP	X	316	21.861	40.166	32.396	0.00	0.00
ATOM	4753	OD2	ASP	X	316	20.213	38.806	32.881	0.00	0.00
ATOM	4754	C	ASP	X	316	24.178	39.775	34.523	0.00	0.00
ATOM	4755	O	ASP	X	316	24.565	40.675	35.271	0.00	0.00
ATOM	4756	N	PHE	X	317	24.821	39.452	33.414	0.00	0.00
ATOM	4757	H	PHE	X	317	24.356	38.800	32.799	0.00	0.00
ATOM	4758	CA	PHE	X	317	26.095	40.086	32.881	0.00	0.00
ATOM	4759	HA	PHE	X	317	26.260	41.098	33.251	0.00	0.00
ATOM	4760	CB	PHE	X	317	27.259	39.170	33.340	0.00	0.00
ATOM	4761	HB2	PHE	X	317	26.935	38.224	32.908	0.00	0.00
ATOM	4762	HB3	PHE	X	317	28.178	39.496	32.854	0.00	0.00
ATOM	4763	CG	PHE	X	317	27.482	39.009	34.726	0.00	0.00
ATOM	4764	CD1	PHE	X	317	27.985	40.017	35.566	0.00	0.00
ATOM	4765	HD1	PHE	X	317	28.108	41.042	35.246	0.00	0.00
ATOM	4766	CE1	PHE	X	317	28.134	39.787	36.912	0.00	0.00
ATOM	4767	HE1	PHE	X	317	28.513	40.571	37.550	0.00	0.00
ATOM	4768	CZ	PHE	X	317	27.917	38.511	37.494	0.00	0.00
ATOM	4769	HZ	PHE	X	317	28.054	38.401	38.559	0.00	0.00
ATOM	4770	CE2	PHE	X	317	27.368	37.547	36.671	0.00	0.00
ATOM	4771	HE2	PHE	X	317	27.131	36.571	37.067	0.00	0.00
ATOM	4772	CD2	PHE	X	317	27.195	37.749	35.325	0.00	0.00
ATOM	4773	HD2	PHE	X	317	26.674	37.045	34.693	0.00	0.00
ATOM	4774	C	PHE	X	317	26.050	40.347	31.401	0.00	0.00
ATOM	4775	O	PHE	X	317	26.999	40.081	30.692	0.00	0.00
ATOM	4776	N	HIE	X	318	24.838	40.637	30.878	0.00	0.00
ATOM	4777	H	HIE	X	318	24.164	40.878	31.590	0.00	0.00
ATOM	4778	CA	HIE	X	318	24.627	40.823	29.464	0.00	0.00
ATOM	4779	HA	HIE	X	318	24.799	39.844	29.016	0.00	0.00
ATOM	4780	CB	HIE	X	318	23.172	41.099	29.125	0.00	0.00
ATOM	4781	HB2	HIE	X	318	22.440	40.392	29.516	0.00	0.00
ATOM	4782	HB3	HIE	X	318	22.835	41.984	29.663	0.00	0.00
ATOM	4783	CG	HIE	X	318	23.015	41.191	27.665	0.00	0.00
ATOM	4784	ND1	HIE	X	318	23.445	40.181	26.789	0.00	0.00
ATOM	4785	CE1	HIE	X	318	23.235	40.741	25.577	0.00	0.00
ATOM	4786	HE1	HIE	X	318	23.155	40.230	24.629	0.00	0.00
ATOM	4787	NE2	HIE	X	318	22.857	42.015	25.653	0.00	0.00
ATOM	4788	HE2	HIE	X	318	22.619	42.598	24.864	0.00	0.00
ATOM	4789	CD2	HIE	X	318	22.713	42.312	26.961	0.00	0.00
ATOM	4790	HD2	HIE	X	318	22.343	43.271	27.293	0.00	0.00
ATOM	4791	C	HIE	X	318	25.661	41.922	28.839	0.00	0.00
ATOM	4792	O	HIE	X	318	25.902	43.025	29.394	0.00	0.00
ATOM	4793	N	GLY	X	319	26.127	41.793	27.624	0.00	0.00
ATOM	4794	H	GLY	X	319	25.913	40.950	27.112	0.00	0.00
ATOM	4795	CA	GLY	X	319	26.887	42.859	26.841	0.00	0.00
ATOM	4796	HA2	GLY	X	319	26.896	42.556	25.788	0.00	0.00
ATOM	4797	HA3	GLY	X	319	26.369	43.787	26.840	0.00	0.00
ATOM	4798	C	GLY	X	319	28.351	43.046	27.197	0.00	0.00
ATOM	4799	O	GLY	X	319	28.969	44.014	26.764	0.00	0.00
ATOM	4800	N	LEU	X	320	28.873	42.298	28.232	0.00	0.00
ATOM	4801	H	LEU	X	320	28.325	41.503	28.527	0.00	0.00

ATOM	4802	CA	LEU	X	320	30.141	42.608	28.870	0.00	0.00
ATOM	4803	HA	LEU	X	320	30.380	43.671	28.815	0.00	0.00
ATOM	4804	CB	LEU	X	320	30.188	42.203	30.355	0.00	0.00
ATOM	4805	HB2	LEU	X	320	29.844	41.178	30.492	0.00	0.00
ATOM	4806	HB3	LEU	X	320	31.176	42.235	30.813	0.00	0.00
ATOM	4807	CG	LEU	X	320	29.146	42.994	31.197	0.00	0.00
ATOM	4808	HG	LEU	X	320	28.129	42.768	30.876	0.00	0.00
ATOM	4809	CD1	LEU	X	320	29.026	42.712	32.686	0.00	0.00
ATOM	4810	HD11	LEU	X	320	29.910	43.134	33.163	0.00	0.00
ATOM	4811	HD12	LEU	X	320	28.127	43.148	33.122	0.00	0.00
ATOM	4812	HD13	LEU	X	320	28.883	41.650	32.885	0.00	0.00
ATOM	4813	CD2	LEU	X	320	29.484	44.495	31.057	0.00	0.00
ATOM	4814	HD21	LEU	X	320	30.547	44.736	31.014	0.00	0.00
ATOM	4815	HD22	LEU	X	320	28.945	44.884	30.194	0.00	0.00
ATOM	4816	HD23	LEU	X	320	29.006	45.074	31.848	0.00	0.00
ATOM	4817	C	LEU	X	320	31.258	42.011	28.099	0.00	0.00
ATOM	4818	O	LEU	X	320	31.053	40.993	27.458	0.00	0.00
ATOM	4819	N	GLN	X	321	32.455	42.589	28.234	0.00	0.00
ATOM	4820	H	GLN	X	321	32.511	43.491	28.684	0.00	0.00
ATOM	4821	CA	GLN	X	321	33.748	41.958	27.809	0.00	0.00
ATOM	4822	HA	GLN	X	321	33.549	41.032	27.269	0.00	0.00
ATOM	4823	CB	GLN	X	321	34.429	42.957	26.852	0.00	0.00
ATOM	4824	HB2	GLN	X	321	34.295	43.964	27.247	0.00	0.00
ATOM	4825	HB3	GLN	X	321	35.499	42.810	26.706	0.00	0.00
ATOM	4826	CG	GLN	X	321	33.646	43.024	25.537	0.00	0.00
ATOM	4827	HG2	GLN	X	321	34.173	42.615	24.674	0.00	0.00
ATOM	4828	HG3	GLN	X	321	32.733	42.433	25.611	0.00	0.00
ATOM	4829	CD	GLN	X	321	33.083	44.401	25.247	0.00	0.00
ATOM	4830	OE1	GLN	X	321	33.789	45.422	25.245	0.00	0.00
ATOM	4831	NE2	GLN	X	321	31.810	44.518	25.189	0.00	0.00
ATOM	4832	HE21	GLN	X	321	31.262	45.366	25.200	0.00	0.00
ATOM	4833	HE22	GLN	X	321	31.347	43.627	25.079	0.00	0.00
ATOM	4834	C	GLN	X	321	34.584	41.662	29.055	0.00	0.00
ATOM	4835	O	GLN	X	321	34.423	42.288	30.088	0.00	0.00
ATOM	4836	N	VAL	X	322	35.428	40.633	29.096	0.00	0.00
ATOM	4837	H	VAL	X	322	35.460	40.044	28.276	0.00	0.00
ATOM	4838	CA	VAL	X	322	36.152	40.189	30.278	0.00	0.00
ATOM	4839	HA	VAL	X	322	36.599	40.944	30.925	0.00	0.00
ATOM	4840	CB	VAL	X	322	35.372	39.231	31.268	0.00	0.00
ATOM	4841	HB	VAL	X	322	35.474	38.216	30.884	0.00	0.00
ATOM	4842	CG1	VAL	X	322	35.972	39.281	32.719	0.00	0.00
ATOM	4843	HG11	VAL	X	322	35.567	38.525	33.393	0.00	0.00
ATOM	4844	HG12	VAL	X	322	37.059	39.228	32.662	0.00	0.00
ATOM	4845	HG13	VAL	X	322	35.734	40.292	33.049	0.00	0.00
ATOM	4846	CG2	VAL	X	322	33.834	39.345	31.449	0.00	0.00
ATOM	4847	HG21	VAL	X	322	33.633	40.263	32.002	0.00	0.00
ATOM	4848	HG22	VAL	X	322	33.174	39.488	30.593	0.00	0.00
ATOM	4849	HG23	VAL	X	322	33.500	38.568	32.137	0.00	0.00
ATOM	4850	C	VAL	X	322	37.405	39.403	29.824	0.00	0.00
ATOM	4851	O	VAL	X	322	37.458	38.855	28.737	0.00	0.00
ATOM	4852	N	LEU	X	323	38.520	39.445	30.517	0.00	0.00
ATOM	4853	H	LEU	X	323	38.492	40.107	31.279	0.00	0.00
ATOM	4854	CA	LEU	X	323	39.746	38.703	30.291	0.00	0.00
ATOM	4855	HA	LEU	X	323	39.689	37.905	29.552	0.00	0.00
ATOM	4856	CB	LEU	X	323	40.847	39.662	29.801	0.00	0.00
ATOM	4857	HB2	LEU	X	323	40.321	40.451	29.264	0.00	0.00
ATOM	4858	HB3	LEU	X	323	41.238	40.193	30.669	0.00	0.00
ATOM	4859	CG	LEU	X	323	42.015	39.023	28.945	0.00	0.00
ATOM	4860	HG	LEU	X	323	41.512	38.490	28.137	0.00	0.00
ATOM	4861	CD1	LEU	X	323	42.845	40.205	28.393	0.00	0.00
ATOM	4862	HD11	LEU	X	323	42.245	40.934	27.849	0.00	0.00
ATOM	4863	HD12	LEU	X	323	43.319	40.725	29.225	0.00	0.00
ATOM	4864	HD13	LEU	X	323	43.525	39.851	27.617	0.00	0.00
ATOM	4865	CD2	LEU	X	323	42.961	38.157	29.790	0.00	0.00
ATOM	4866	HD21	LEU	X	323	43.954	38.036	29.358	0.00	0.00
ATOM	4867	HD22	LEU	X	323	42.976	38.494	30.826	0.00	0.00
ATOM	4868	HD23	LEU	X	323	42.446	37.196	29.807	0.00	0.00
ATOM	4869	C	LEU	X	323	40.019	38.050	31.623	0.00	0.00
ATOM	4870	O	LEU	X	323	39.800	38.638	32.708	0.00	0.00
ATOM	4871	N	VAL	X	324	40.516	36.803	31.559	0.00	0.00

ATOM	4872	H	VAL	X	324	40.834	36.503	30.649	0.00	0.00
ATOM	4873	CA	VAL	X	324	40.756	35.929	32.687	0.00	0.00
ATOM	4874	HA	VAL	X	324	40.660	36.465	33.631	0.00	0.00
ATOM	4875	CB	VAL	X	324	39.540	35.004	32.952	0.00	0.00
ATOM	4876	HB	VAL	X	324	39.910	34.370	33.758	0.00	0.00
ATOM	4877	CG1	VAL	X	324	38.246	35.673	33.387	0.00	0.00
ATOM	4878	HG11	VAL	X	324	37.646	34.877	33.826	0.00	0.00
ATOM	4879	HG12	VAL	X	324	38.327	36.529	34.057	0.00	0.00
ATOM	4880	HG13	VAL	X	324	37.705	35.975	32.491	0.00	0.00
ATOM	4881	CG2	VAL	X	324	39.223	34.135	31.729	0.00	0.00
ATOM	4882	HG21	VAL	X	324	40.102	33.572	31.414	0.00	0.00
ATOM	4883	HG22	VAL	X	324	38.368	33.478	31.885	0.00	0.00
ATOM	4884	HG23	VAL	X	324	38.892	34.727	30.876	0.00	0.00
ATOM	4885	C	VAL	X	324	42.136	35.246	32.528	0.00	0.00
ATOM	4886	O	VAL	X	324	42.638	35.106	31.486	0.00	0.00
ATOM	4887	N	GLY	X	325	42.663	34.695	33.621	0.00	0.00
ATOM	4888	H	GLY	X	325	42.391	35.158	34.477	0.00	0.00
ATOM	4889	CA	GLY	X	325	43.705	33.633	33.506	0.00	0.00
ATOM	4890	HA2	GLY	X	325	43.248	32.689	33.298	0.00	0.00
ATOM	4891	HA3	GLY	X	325	44.295	33.950	32.719	0.00	0.00
ATOM	4892	C	GLY	X	325	44.731	33.525	34.620	0.00	0.00
ATOM	4893	O	GLY	X	325	44.504	33.883	35.755	0.00	0.00
ATOM	4894	N	VAL	X	326	45.926	32.909	34.353	0.00	0.00
ATOM	4895	H	VAL	X	326	46.164	32.694	33.395	0.00	0.00
ATOM	4896	CA	VAL	X	326	46.916	32.447	35.368	0.00	0.00
ATOM	4897	HA	VAL	X	326	47.019	33.224	36.125	0.00	0.00
ATOM	4898	CB	VAL	X	326	46.465	31.124	36.050	0.00	0.00
ATOM	4899	HB	VAL	X	326	47.262	30.836	36.735	0.00	0.00
ATOM	4900	CG1	VAL	X	326	45.281	31.139	37.028	0.00	0.00
ATOM	4901	HG11	VAL	X	326	44.321	31.450	36.615	0.00	0.00
ATOM	4902	HG12	VAL	X	326	45.245	30.138	37.457	0.00	0.00
ATOM	4903	HG13	VAL	X	326	45.653	31.932	37.677	0.00	0.00
ATOM	4904	CG2	VAL	X	326	46.345	30.060	35.027	0.00	0.00
ATOM	4905	HG21	VAL	X	326	45.523	30.309	34.355	0.00	0.00
ATOM	4906	HG22	VAL	X	326	47.349	29.946	34.619	0.00	0.00
ATOM	4907	HG23	VAL	X	326	46.074	29.119	35.506	0.00	0.00
ATOM	4908	C	VAL	X	326	48.312	32.253	34.861	0.00	0.00
ATOM	4909	O	VAL	X	326	48.460	32.281	33.619	0.00	0.00
ATOM	4910	N	VAL	X	327	49.328	32.093	35.725	0.00	0.00
ATOM	4911	H	VAL	X	327	49.124	32.095	36.715	0.00	0.00
ATOM	4912	CA	VAL	X	327	50.666	31.661	35.311	0.00	0.00
ATOM	4913	HA	VAL	X	327	50.853	31.919	34.268	0.00	0.00
ATOM	4914	CB	VAL	X	327	51.808	32.300	36.133	0.00	0.00
ATOM	4915	HB	VAL	X	327	52.755	31.953	35.721	0.00	0.00
ATOM	4916	CG1	VAL	X	327	51.988	33.805	36.234	0.00	0.00
ATOM	4917	HG11	VAL	X	327	51.667	34.297	35.316	0.00	0.00
ATOM	4918	HG12	VAL	X	327	51.352	34.227	37.013	0.00	0.00
ATOM	4919	HG13	VAL	X	327	53.010	34.174	36.315	0.00	0.00
ATOM	4920	CG2	VAL	X	327	51.926	31.764	37.518	0.00	0.00
ATOM	4921	HG21	VAL	X	327	51.021	31.980	38.085	0.00	0.00
ATOM	4922	HG22	VAL	X	327	52.150	30.698	37.551	0.00	0.00
ATOM	4923	HG23	VAL	X	327	52.701	32.271	38.093	0.00	0.00
ATOM	4924	C	VAL	X	327	50.802	30.153	35.412	0.00	0.00
ATOM	4925	O	VAL	X	327	49.930	29.449	36.051	0.00	0.00
ATOM	4926	N	LYS	X	328	51.820	29.590	34.821	0.00	0.00
ATOM	4927	H	LYS	X	328	52.501	30.227	34.432	0.00	0.00
ATOM	4928	CA	LYS	X	328	52.001	28.112	34.855	0.00	0.00
ATOM	4929	HA	LYS	X	328	51.089	27.861	34.313	0.00	0.00
ATOM	4930	CB	LYS	X	328	53.220	27.757	34.018	0.00	0.00
ATOM	4931	HB2	LYS	X	328	53.252	28.364	33.113	0.00	0.00
ATOM	4932	HB3	LYS	X	328	54.157	27.974	34.531	0.00	0.00
ATOM	4933	CG	LYS	X	328	53.189	26.271	33.617	0.00	0.00
ATOM	4934	HG2	LYS	X	328	53.275	25.649	34.508	0.00	0.00
ATOM	4935	HG3	LYS	X	328	52.249	26.213	33.068	0.00	0.00
ATOM	4936	CD	LYS	X	328	54.391	26.083	32.681	0.00	0.00
ATOM	4937	HD2	LYS	X	328	54.102	25.255	32.033	0.00	0.00
ATOM	4938	HD3	LYS	X	328	54.510	26.940	32.018	0.00	0.00
ATOM	4939	CE	LYS	X	328	55.736	25.742	33.399	0.00	0.00
ATOM	4940	HE2	LYS	X	328	56.500	25.533	32.651	0.00	0.00
ATOM	4941	HE3	LYS	X	328	56.109	26.620	33.925	0.00	0.00

ATOM	4942	NZ	LYS	X	328	55.670	24.582	34.315	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	55.203	24.824	35.177	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	55.285	23.765	33.862	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	56.617	24.415	34.626	0.00	0.00
ATOM	4946	C	LYS	X	328	51.921	27.547	36.294	0.00	0.00
ATOM	4947	O	LYS	X	328	51.233	26.526	36.473	0.00	0.00
ATOM	4948	N	ASP	X	329	52.669	28.114	37.249	0.00	0.00
ATOM	4949	H	ASP	X	329	53.331	28.820	36.959	0.00	0.00
ATOM	4950	CA	ASP	X	329	52.986	27.383	38.541	0.00	0.00
ATOM	4951	HA	ASP	X	329	52.238	26.591	38.558	0.00	0.00
ATOM	4952	CB	ASP	X	329	54.458	26.799	38.501	0.00	0.00
ATOM	4953	HB2	ASP	X	329	55.228	27.528	38.751	0.00	0.00
ATOM	4954	HB3	ASP	X	329	54.428	25.996	39.238	0.00	0.00
ATOM	4955	CG	ASP	X	329	54.838	26.174	37.132	0.00	0.00
ATOM	4956	OD1	ASP	X	329	54.650	24.984	36.899	0.00	0.00
ATOM	4957	OD2	ASP	X	329	55.399	26.948	36.342	0.00	0.00
ATOM	4958	C	ASP	X	329	52.672	28.184	39.763	0.00	0.00
ATOM	4959	O	ASP	X	329	53.371	28.131	40.755	0.00	0.00
ATOM	4960	N	GLU	X	330	51.519	28.894	39.822	0.00	0.00
ATOM	4961	H	GLU	X	330	50.944	28.790	38.999	0.00	0.00
ATOM	4962	CA	GLU	X	330	50.905	29.617	40.987	0.00	0.00
ATOM	4963	HA	GLU	X	330	51.254	30.648	40.931	0.00	0.00
ATOM	4964	CB	GLU	X	330	49.376	29.660	40.839	0.00	0.00
ATOM	4965	HB2	GLU	X	330	48.936	28.665	40.779	0.00	0.00
ATOM	4966	HB3	GLU	X	330	48.936	30.142	41.712	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.727	30.331	39.587	0.00	0.00
ATOM	4968	HG2	GLU	X	330	49.064	29.856	38.666	0.00	0.00
ATOM	4969	HG3	GLU	X	330	47.648	30.175	39.614	0.00	0.00
ATOM	4970	CD	GLU	X	330	48.912	31.880	39.518	0.00	0.00
ATOM	4971	OE1	GLU	X	330	49.426	32.499	40.499	0.00	0.00
ATOM	4972	OE2	GLU	X	330	48.614	32.436	38.420	0.00	0.00
ATOM	4973	C	GLU	X	330	51.220	29.039	42.400	0.00	0.00
ATOM	4974	O	GLU	X	330	51.441	29.876	43.321	0.00	0.00
ATOM	4975	N	GLY	X	331	51.273	27.688	42.580	0.00	0.00
ATOM	4976	H	GLY	X	331	51.192	27.119	41.750	0.00	0.00
ATOM	4977	CA	GLY	X	331	51.543	27.044	43.833	0.00	0.00
ATOM	4978	HA2	GLY	X	331	51.248	27.744	44.593	0.00	0.00
ATOM	4979	HA3	GLY	X	331	51.068	26.007	43.863	0.00	0.00
ATOM	4980	C	GLY	X	331	52.969	26.727	44.175	0.00	0.00
ATOM	4981	O	GLY	X	331	53.191	26.316	45.308	0.00	0.00
ATOM	4982	N	SER	X	332	53.944	26.928	43.269	0.00	0.00
ATOM	4983	H	SER	X	332	53.677	27.184	42.330	0.00	0.00
ATOM	4984	CA	SER	X	332	55.371	26.887	43.644	0.00	0.00
ATOM	4985	HA	SER	X	332	55.628	25.925	44.087	0.00	0.00
ATOM	4986	CB	SER	X	332	56.234	26.977	42.337	0.00	0.00
ATOM	4987	HB2	SER	X	332	56.089	27.920	41.810	0.00	0.00
ATOM	4988	HB3	SER	X	332	57.270	26.957	42.675	0.00	0.00
ATOM	4989	OG	SER	X	332	56.023	25.886	41.409	0.00	0.00
ATOM	4990	HG	SER	X	332	55.640	26.254	40.609	0.00	0.00
ATOM	4991	C	SER	X	332	55.785	27.965	44.665	0.00	0.00
ATOM	4992	O	SER	X	332	56.340	27.671	45.700	0.00	0.00
ATOM	4993	N	TYR	X	333	55.384	29.202	44.368	0.00	0.00
ATOM	4994	H	TYR	X	333	54.713	29.302	43.619	0.00	0.00
ATOM	4995	CA	TYR	X	333	55.654	30.386	45.143	0.00	0.00
ATOM	4996	HA	TYR	X	333	56.693	30.710	45.089	0.00	0.00
ATOM	4997	CB	TYR	X	333	54.858	31.551	44.463	0.00	0.00
ATOM	4998	HB2	TYR	X	333	55.071	31.664	43.400	0.00	0.00
ATOM	4999	HB3	TYR	X	333	53.802	31.287	44.534	0.00	0.00
ATOM	5000	CG	TYR	X	333	55.118	32.946	45.022	0.00	0.00
ATOM	5001	CD1	TYR	X	333	56.329	33.616	44.705	0.00	0.00
ATOM	5002	HD1	TYR	X	333	57.051	33.112	44.080	0.00	0.00
ATOM	5003	CE1	TYR	X	333	56.501	34.943	45.123	0.00	0.00
ATOM	5004	HE1	TYR	X	333	57.373	35.484	44.786	0.00	0.00
ATOM	5005	CZ	TYR	X	333	55.557	35.610	45.830	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.791	36.866	46.194	0.00	0.00
ATOM	5007	HH	TYR	X	333	56.438	37.322	45.650	0.00	0.00
ATOM	5008	CE2	TYR	X	333	54.359	34.923	46.197	0.00	0.00
ATOM	5009	HE2	TYR	X	333	53.688	35.459	46.853	0.00	0.00
ATOM	5010	CD2	TYR	X	333	54.187	33.549	45.860	0.00	0.00
ATOM	5011	HD2	TYR	X	333	53.280	33.050	46.169	0.00	0.00

ATOM	5012	C	TYR	X	333	55.289	30.329	46.607	0.00	0.00
ATOM	5013	O	TYR	X	333	56.168	30.663	47.377	0.00	0.00
ATOM	5014	N	PHE	X	334	54.038	29.976	46.999	0.00	0.00
ATOM	5015	H	PHE	X	334	53.338	29.781	46.297	0.00	0.00
ATOM	5016	CA	PHE	X	334	53.750	29.873	48.467	0.00	0.00
ATOM	5017	HA	PHE	X	334	54.151	30.789	48.901	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.247	29.983	48.732	0.00	0.00
ATOM	5019	HB2	PHE	X	334	51.790	29.180	48.155	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.021	29.795	49.782	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.676	31.335	48.370	0.00	0.00
ATOM	5022	CD1	PHE	X	334	51.043	31.560	47.156	0.00	0.00
ATOM	5023	HD1	PHE	X	334	50.943	30.701	46.508	0.00	0.00
ATOM	5024	CE1	PHE	X	334	50.439	32.779	46.850	0.00	0.00
ATOM	5025	HE1	PHE	X	334	50.061	32.946	45.852	0.00	0.00
ATOM	5026	CZ	PHE	X	334	50.469	33.829	47.763	0.00	0.00
ATOM	5027	HZ	PHE	X	334	50.050	34.751	47.386	0.00	0.00
ATOM	5028	CE2	PHE	X	334	51.095	33.671	49.005	0.00	0.00
ATOM	5029	HE2	PHE	X	334	51.242	34.479	49.706	0.00	0.00
ATOM	5030	CD2	PHE	X	334	51.722	32.421	49.297	0.00	0.00
ATOM	5031	HD2	PHE	X	334	52.263	32.391	50.232	0.00	0.00
ATOM	5032	C	PHE	X	334	54.421	28.707	49.154	0.00	0.00
ATOM	5033	O	PHE	X	334	54.692	28.876	50.395	0.00	0.00
ATOM	5034	N	LEU	X	335	54.798	27.600	48.496	0.00	0.00
ATOM	5035	H	LEU	X	335	54.592	27.519	47.510	0.00	0.00
ATOM	5036	CA	LEU	X	335	55.541	26.432	49.050	0.00	0.00
ATOM	5037	HA	LEU	X	335	54.989	25.972	49.869	0.00	0.00
ATOM	5038	CB	LEU	X	335	55.764	25.294	48.059	0.00	0.00
ATOM	5039	HB2	LEU	X	335	55.777	25.751	47.069	0.00	0.00
ATOM	5040	HB3	LEU	X	335	56.692	24.775	48.298	0.00	0.00
ATOM	5041	CG	LEU	X	335	54.568	24.278	48.047	0.00	0.00
ATOM	5042	HG	LEU	X	335	53.599	24.756	47.898	0.00	0.00
ATOM	5043	CD1	LEU	X	335	54.667	23.418	46.742	0.00	0.00
ATOM	5044	HD11	LEU	X	335	55.429	22.644	46.830	0.00	0.00
ATOM	5045	HD12	LEU	X	335	53.681	23.032	46.483	0.00	0.00
ATOM	5046	HD13	LEU	X	335	55.002	24.134	45.991	0.00	0.00
ATOM	5047	CD2	LEU	X	335	54.428	23.465	49.241	0.00	0.00
ATOM	5048	HD21	LEU	X	335	53.590	22.786	49.083	0.00	0.00
ATOM	5049	HD22	LEU	X	335	55.346	22.903	49.415	0.00	0.00
ATOM	5050	HD23	LEU	X	335	54.456	24.064	50.152	0.00	0.00
ATOM	5051	C	LEU	X	335	56.901	26.974	49.583	0.00	0.00
ATOM	5052	O	LEU	X	335	57.167	26.737	50.733	0.00	0.00
ATOM	5053	N	VAL	X	336	57.711	27.620	48.764	0.00	0.00
ATOM	5054	H	VAL	X	336	57.451	27.678	47.790	0.00	0.00
ATOM	5055	CA	VAL	X	336	58.998	28.321	49.218	0.00	0.00
ATOM	5056	HA	VAL	X	336	59.585	27.534	49.692	0.00	0.00
ATOM	5057	CB	VAL	X	336	59.907	28.758	48.019	0.00	0.00
ATOM	5058	HB	VAL	X	336	60.835	29.097	48.478	0.00	0.00
ATOM	5059	CG1	VAL	X	336	60.273	27.595	47.135	0.00	0.00
ATOM	5060	HG11	VAL	X	336	60.755	26.797	47.700	0.00	0.00
ATOM	5061	HG12	VAL	X	336	59.440	27.161	46.582	0.00	0.00
ATOM	5062	HG13	VAL	X	336	60.988	27.817	46.343	0.00	0.00
ATOM	5063	CG2	VAL	X	336	59.246	29.914	47.264	0.00	0.00
ATOM	5064	HG21	VAL	X	336	58.290	29.688	46.792	0.00	0.00
ATOM	5065	HG22	VAL	X	336	59.136	30.782	47.914	0.00	0.00
ATOM	5066	HG23	VAL	X	336	60.118	30.142	46.650	0.00	0.00
ATOM	5067	C	VAL	X	336	58.786	29.408	50.264	0.00	0.00
ATOM	5068	O	VAL	X	336	59.746	30.089	50.655	0.00	0.00
ATOM	5069	N	TYR	X	337	57.547	29.623	50.803	0.00	0.00
ATOM	5070	H	TYR	X	337	56.739	29.244	50.330	0.00	0.00
ATOM	5071	CA	TYR	X	337	57.126	30.722	51.671	0.00	0.00
ATOM	5072	HA	TYR	X	337	58.058	31.160	52.028	0.00	0.00
ATOM	5073	CB	TYR	X	337	56.452	31.735	50.759	0.00	0.00
ATOM	5074	HB2	TYR	X	337	56.717	31.357	49.771	0.00	0.00
ATOM	5075	HB3	TYR	X	337	55.369	31.754	50.880	0.00	0.00
ATOM	5076	CG	TYR	X	337	57.067	33.107	50.778	0.00	0.00
ATOM	5077	CD1	TYR	X	337	57.324	33.793	51.992	0.00	0.00
ATOM	5078	HD1	TYR	X	337	57.248	33.431	53.006	0.00	0.00
ATOM	5079	CE1	TYR	X	337	57.985	35.036	51.936	0.00	0.00
ATOM	5080	HE1	TYR	X	337	58.265	35.487	52.877	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.188	35.711	50.734	0.00	0.00

ATOM	5082	OH	TYR	X	337	58.914	36.816	50.828	0.00	0.00
ATOM	5083	HH	TYR	X	337	59.126	37.105	51.718	0.00	0.00
ATOM	5084	CE2	TYR	X	337	57.890	35.044	49.537	0.00	0.00
ATOM	5085	HE2	TYR	X	337	58.189	35.478	48.594	0.00	0.00
ATOM	5086	CD2	TYR	X	337	57.222	33.811	49.585	0.00	0.00
ATOM	5087	HD2	TYR	X	337	56.916	33.277	48.698	0.00	0.00
ATOM	5088	C	TYR	X	337	56.275	30.313	52.950	0.00	0.00
ATOM	5089	O	TYR	X	337	55.883	31.142	53.735	0.00	0.00
ATOM	5090	N	GLY	X	338	55.987	28.987	53.037	0.00	0.00
ATOM	5091	H	GLY	X	338	56.249	28.351	52.297	0.00	0.00
ATOM	5092	CA	GLY	X	338	54.970	28.504	53.975	0.00	0.00
ATOM	5093	HA2	GLY	X	338	55.142	28.971	54.971	0.00	0.00
ATOM	5094	HA3	GLY	X	338	53.990	28.924	53.607	0.00	0.00
ATOM	5095	C	GLY	X	338	54.810	27.018	54.191	0.00	0.00
ATOM	5096	O	GLY	X	338	54.041	26.649	55.092	0.00	0.00
ATOM	5097	N	ALA	X	339	55.499	26.135	53.477	0.00	0.00
ATOM	5098	H	ALA	X	339	56.117	26.543	52.791	0.00	0.00
ATOM	5099	CA	ALA	X	339	55.658	24.792	53.923	0.00	0.00
ATOM	5100	HA	ALA	X	339	54.943	24.631	54.729	0.00	0.00
ATOM	5101	CB	ALA	X	339	55.497	23.782	52.857	0.00	0.00
ATOM	5102	HB1	ALA	X	339	56.242	23.911	52.071	0.00	0.00
ATOM	5103	HB2	ALA	X	339	55.623	22.818	53.350	0.00	0.00
ATOM	5104	HB3	ALA	X	339	54.510	23.750	52.397	0.00	0.00
ATOM	5105	C	ALA	X	339	56.988	24.674	54.601	0.00	0.00
ATOM	5106	O	ALA	X	339	57.944	25.240	54.156	0.00	0.00
ATOM	5107	N	PRO	X	340	57.077	23.922	55.721	0.00	0.00
ATOM	5108	CD	PRO	X	340	56.076	23.295	56.505	0.00	0.00
ATOM	5109	HD2	PRO	X	340	55.333	22.762	55.912	0.00	0.00
ATOM	5110	HD3	PRO	X	340	55.598	24.119	57.035	0.00	0.00
ATOM	5111	CG	PRO	X	340	56.774	22.268	57.447	0.00	0.00
ATOM	5112	HG2	PRO	X	340	56.684	21.299	56.957	0.00	0.00
ATOM	5113	HG3	PRO	X	340	56.320	22.131	58.428	0.00	0.00
ATOM	5114	CB	PRO	X	340	58.163	22.795	57.554	0.00	0.00
ATOM	5115	HB2	PRO	X	340	58.927	22.019	57.545	0.00	0.00
ATOM	5116	HB3	PRO	X	340	58.284	23.478	58.396	0.00	0.00
ATOM	5117	CA	PRO	X	340	58.370	23.539	56.299	0.00	0.00
ATOM	5118	HA	PRO	X	340	58.853	24.498	56.484	0.00	0.00
ATOM	5119	C	PRO	X	340	59.218	22.765	55.288	0.00	0.00
ATOM	5120	O	PRO	X	340	58.699	22.075	54.384	0.00	0.00
ATOM	5121	N	GLY	X	341	60.586	22.867	55.299	0.00	0.00
ATOM	5122	H	GLY	X	341	60.962	23.280	56.140	0.00	0.00
ATOM	5123	CA	GLY	X	341	61.534	22.281	54.422	0.00	0.00
ATOM	5124	HA2	GLY	X	341	62.496	22.284	54.919	0.00	0.00
ATOM	5125	HA3	GLY	X	341	61.368	21.243	54.341	0.00	0.00
ATOM	5126	C	GLY	X	341	61.692	22.946	53.045	0.00	0.00
ATOM	5127	O	GLY	X	341	62.777	23.231	52.550	0.00	0.00
ATOM	5128	N	PHE	X	342	60.592	23.292	52.360	0.00	0.00
ATOM	5129	H	PHE	X	342	59.704	22.913	52.656	0.00	0.00
ATOM	5130	CA	PHE	X	342	60.533	24.059	51.142	0.00	0.00
ATOM	5131	HA	PHE	X	342	61.064	23.488	50.381	0.00	0.00
ATOM	5132	CB	PHE	X	342	59.122	24.309	50.668	0.00	0.00
ATOM	5133	HB2	PHE	X	342	58.609	24.605	51.584	0.00	0.00
ATOM	5134	HB3	PHE	X	342	59.103	25.178	50.011	0.00	0.00
ATOM	5135	CG	PHE	X	342	58.407	23.131	50.062	0.00	0.00
ATOM	5136	CD1	PHE	X	342	58.476	22.972	48.695	0.00	0.00
ATOM	5137	HD1	PHE	X	342	59.031	23.709	48.133	0.00	0.00
ATOM	5138	CE1	PHE	X	342	57.962	21.893	48.020	0.00	0.00
ATOM	5139	HE1	PHE	X	342	57.956	21.877	46.940	0.00	0.00
ATOM	5140	CZ	PHE	X	342	57.314	20.931	48.800	0.00	0.00
ATOM	5141	HZ	PHE	X	342	56.816	20.128	48.277	0.00	0.00
ATOM	5142	CE2	PHE	X	342	57.254	21.014	50.182	0.00	0.00
ATOM	5143	HE2	PHE	X	342	56.637	20.300	50.707	0.00	0.00
ATOM	5144	CD2	PHE	X	342	57.828	22.120	50.826	0.00	0.00
ATOM	5145	HD2	PHE	X	342	57.651	22.317	51.873	0.00	0.00
ATOM	5146	C	PHE	X	342	61.254	25.365	51.267	0.00	0.00
ATOM	5147	O	PHE	X	342	61.076	26.141	52.201	0.00	0.00
ATOM	5148	N	SER	X	343	62.098	25.728	50.291	0.00	0.00
ATOM	5149	H	SER	X	343	62.309	25.124	49.510	0.00	0.00
ATOM	5150	CA	SER	X	343	62.737	27.078	50.231	0.00	0.00
ATOM	5151	HA	SER	X	343	62.004	27.872	50.380	0.00	0.00

ATOM	5152	CB	SER	X	343	63.947	27.188	51.222	0.00	0.00
ATOM	5153	HB2	SER	X	343	63.740	26.676	52.161	0.00	0.00
ATOM	5154	HB3	SER	X	343	64.877	26.804	50.802	0.00	0.00
ATOM	5155	OG	SER	X	343	63.984	28.561	51.461	0.00	0.00
ATOM	5156	HG	SER	X	343	64.376	28.707	52.326	0.00	0.00
ATOM	5157	C	SER	X	343	63.383	27.320	48.856	0.00	0.00
ATOM	5158	O	SER	X	343	63.582	26.360	48.122	0.00	0.00
ATOM	5159	N	LYS	X	344	63.654	28.560	48.408	0.00	0.00
ATOM	5160	H	LYS	X	344	63.490	29.382	48.972	0.00	0.00
ATOM	5161	CA	LYS	X	344	64.438	28.661	47.151	0.00	0.00
ATOM	5162	HA	LYS	X	344	63.933	28.075	46.384	0.00	0.00
ATOM	5163	CB	LYS	X	344	64.438	30.083	46.571	0.00	0.00
ATOM	5164	HB2	LYS	X	344	64.763	30.177	45.535	0.00	0.00
ATOM	5165	HB3	LYS	X	344	63.409	30.430	46.473	0.00	0.00
ATOM	5166	CG	LYS	X	344	65.375	31.046	47.309	0.00	0.00
ATOM	5167	HG2	LYS	X	344	65.040	31.108	48.345	0.00	0.00
ATOM	5168	HG3	LYS	X	344	66.384	30.632	47.298	0.00	0.00
ATOM	5169	CD	LYS	X	344	65.333	32.405	46.708	0.00	0.00
ATOM	5170	HD2	LYS	X	344	65.267	32.413	45.620	0.00	0.00
ATOM	5171	HD3	LYS	X	344	64.475	32.890	47.172	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.514	33.331	47.128	0.00	0.00
ATOM	5173	HE2	LYS	X	344	66.355	34.351	46.778	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.567	33.451	48.210	0.00	0.00
ATOM	5175	NZ	LYS	X	344	67.726	32.779	46.597	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	67.799	32.805	45.590	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	68.465	33.385	46.924	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	67.985	31.857	46.920	0.00	0.00
ATOM	5179	C	LYS	X	344	65.924	28.103	47.194	0.00	0.00
ATOM	5180	O	LYS	X	344	66.502	27.743	46.141	0.00	0.00
ATOM	5181	N	ASP	X	345	66.448	28.016	48.450	0.00	0.00
ATOM	5182	H	ASP	X	345	65.950	28.552	49.147	0.00	0.00
ATOM	5183	CA	ASP	X	345	67.755	27.360	48.848	0.00	0.00
ATOM	5184	HA	ASP	X	345	68.550	27.882	48.316	0.00	0.00
ATOM	5185	CB	ASP	X	345	67.823	27.588	50.372	0.00	0.00
ATOM	5186	HB2	ASP	X	345	67.651	28.627	50.655	0.00	0.00
ATOM	5187	HB3	ASP	X	345	67.073	26.908	50.775	0.00	0.00
ATOM	5188	CG	ASP	X	345	69.214	27.292	50.969	0.00	0.00
ATOM	5189	OD1	ASP	X	345	69.511	26.089	51.301	0.00	0.00
ATOM	5190	OD2	ASP	X	345	70.084	28.132	50.920	0.00	0.00
ATOM	5191	C	ASP	X	345	67.868	25.855	48.566	0.00	0.00
ATOM	5192	O	ASP	X	345	69.047	25.332	48.465	0.00	0.00
ATOM	5193	N	ASN	X	346	66.717	25.114	48.476	0.00	0.00
ATOM	5194	H	ASN	X	346	65.851	25.631	48.429	0.00	0.00
ATOM	5195	CA	ASN	X	346	66.724	23.694	48.281	0.00	0.00
ATOM	5196	HA	ASN	X	346	67.708	23.246	48.141	0.00	0.00
ATOM	5197	CB	ASN	X	346	66.097	23.135	49.644	0.00	0.00
ATOM	5198	HB2	ASN	X	346	66.649	23.533	50.496	0.00	0.00
ATOM	5199	HB3	ASN	X	346	65.058	23.455	49.735	0.00	0.00
ATOM	5200	CG	ASN	X	346	66.219	21.660	49.610	0.00	0.00
ATOM	5201	OD1	ASN	X	346	65.232	20.978	49.449	0.00	0.00
ATOM	5202	ND2	ASN	X	346	67.455	21.047	49.578	0.00	0.00
ATOM	5203	HD21	ASN	X	346	67.529	20.044	49.479	0.00	0.00
ATOM	5204	HD22	ASN	X	346	68.305	21.591	49.605	0.00	0.00
ATOM	5205	C	ASN	X	346	65.774	23.276	47.118	0.00	0.00
ATOM	5206	O	ASN	X	346	64.714	23.785	46.918	0.00	0.00
ATOM	5207	N	GLU	X	347	66.197	22.243	46.365	0.00	0.00
ATOM	5208	H	GLU	X	347	67.067	21.756	46.523	0.00	0.00
ATOM	5209	CA	GLU	X	347	65.391	21.666	45.271	0.00	0.00
ATOM	5210	HA	GLU	X	347	65.177	22.467	44.564	0.00	0.00
ATOM	5211	CB	GLU	X	347	66.099	20.639	44.327	0.00	0.00
ATOM	5212	HB2	GLU	X	347	66.366	19.791	44.957	0.00	0.00
ATOM	5213	HB3	GLU	X	347	65.422	20.278	43.553	0.00	0.00
ATOM	5214	CG	GLU	X	347	67.425	21.199	43.589	0.00	0.00
ATOM	5215	HG2	GLU	X	347	67.765	20.273	43.124	0.00	0.00
ATOM	5216	HG3	GLU	X	347	67.199	22.032	42.922	0.00	0.00
ATOM	5217	CD	GLU	X	347	68.576	21.661	44.526	0.00	0.00
ATOM	5218	OE1	GLU	X	347	68.662	21.318	45.708	0.00	0.00
ATOM	5219	OE2	GLU	X	347	69.288	22.624	44.090	0.00	0.00
ATOM	5220	C	GLU	X	347	64.009	21.117	45.740	0.00	0.00
ATOM	5221	O	GLU	X	347	63.133	20.897	44.937	0.00	0.00

ATOM	5222	N	SER	X	348	63.796	20.886	47.005	0.00	0.00
ATOM	5223	H	SER	X	348	64.559	20.833	47.665	0.00	0.00
ATOM	5224	CA	SER	X	348	62.469	20.696	47.621	0.00	0.00
ATOM	5225	HA	SER	X	348	62.596	20.668	48.703	0.00	0.00
ATOM	5226	CB	SER	X	348	61.660	21.983	47.371	0.00	0.00
ATOM	5227	HB2	SER	X	348	61.650	22.142	46.293	0.00	0.00
ATOM	5228	HB3	SER	X	348	60.613	21.834	47.637	0.00	0.00
ATOM	5229	OG	SER	X	348	62.093	23.178	47.950	0.00	0.00
ATOM	5230	HG	SER	X	348	62.833	23.547	47.462	0.00	0.00
ATOM	5231	C	SER	X	348	61.706	19.394	47.249	0.00	0.00
ATOM	5232	O	SER	X	348	60.505	19.299	47.219	0.00	0.00
ATOM	5233	N	LEU	X	349	62.422	18.347	46.952	0.00	0.00
ATOM	5234	H	LEU	X	349	63.423	18.410	46.836	0.00	0.00
ATOM	5235	CA	LEU	X	349	61.845	16.964	46.771	0.00	0.00
ATOM	5236	HA	LEU	X	349	61.156	17.028	45.928	0.00	0.00
ATOM	5237	CB	LEU	X	349	62.946	16.046	46.322	0.00	0.00
ATOM	5238	HB2	LEU	X	349	63.569	15.980	47.214	0.00	0.00
ATOM	5239	HB3	LEU	X	349	62.602	15.026	46.152	0.00	0.00
ATOM	5240	CG	LEU	X	349	63.842	16.416	45.113	0.00	0.00
ATOM	5241	HG	LEU	X	349	64.147	17.452	45.260	0.00	0.00
ATOM	5242	CD1	LEU	X	349	65.079	15.488	45.147	0.00	0.00
ATOM	5243	HD11	LEU	X	349	65.825	15.833	44.431	0.00	0.00
ATOM	5244	HD12	LEU	X	349	65.513	15.495	46.147	0.00	0.00
ATOM	5245	HD13	LEU	X	349	64.743	14.472	44.940	0.00	0.00
ATOM	5246	CD2	LEU	X	349	63.212	16.357	43.670	0.00	0.00
ATOM	5247	HD21	LEU	X	349	62.699	15.413	43.489	0.00	0.00
ATOM	5248	HD22	LEU	X	349	62.381	17.031	43.462	0.00	0.00
ATOM	5249	HD23	LEU	X	349	63.978	16.380	42.894	0.00	0.00
ATOM	5250	C	LEU	X	349	61.112	16.434	48.003	0.00	0.00
ATOM	5251	O	LEU	X	349	61.501	16.754	49.132	0.00	0.00
ATOM	5252	N	ILE	X	350	60.163	15.513	47.774	0.00	0.00
ATOM	5253	H	ILE	X	350	59.866	15.356	46.821	0.00	0.00
ATOM	5254	CA	ILE	X	350	59.135	15.111	48.819	0.00	0.00
ATOM	5255	HA	ILE	X	350	59.636	15.132	49.787	0.00	0.00
ATOM	5256	CB	ILE	X	350	57.907	16.057	48.923	0.00	0.00
ATOM	5257	HB	ILE	X	350	57.114	15.595	49.511	0.00	0.00
ATOM	5258	CG2	ILE	X	350	58.367	17.404	49.515	0.00	0.00
ATOM	5259	HG21	ILE	X	350	58.989	17.915	48.780	0.00	0.00
ATOM	5260	HG22	ILE	X	350	57.480	18.037	49.564	0.00	0.00
ATOM	5261	HG23	ILE	X	350	58.924	17.184	50.425	0.00	0.00
ATOM	5262	CG1	ILE	X	350	57.299	16.334	47.578	0.00	0.00
ATOM	5263	HG12	ILE	X	350	57.843	17.095	47.019	0.00	0.00
ATOM	5264	HG13	ILE	X	350	57.223	15.437	46.963	0.00	0.00
ATOM	5265	CD1	ILE	X	350	55.796	16.778	47.746	0.00	0.00
ATOM	5266	HD11	ILE	X	350	55.296	15.947	48.244	0.00	0.00
ATOM	5267	HD12	ILE	X	350	55.639	17.667	48.357	0.00	0.00
ATOM	5268	HD13	ILE	X	350	55.297	17.037	46.812	0.00	0.00
ATOM	5269	C	ILE	X	350	58.707	13.632	48.621	0.00	0.00
ATOM	5270	O	ILE	X	350	58.426	13.132	47.520	0.00	0.00
ATOM	5271	N	SER	X	351	58.571	12.911	49.698	0.00	0.00
ATOM	5272	H	SER	X	351	58.958	13.235	50.573	0.00	0.00
ATOM	5273	CA	SER	X	351	58.046	11.502	49.609	0.00	0.00
ATOM	5274	HA	SER	X	351	58.332	11.111	48.633	0.00	0.00
ATOM	5275	CB	SER	X	351	58.653	10.693	50.693	0.00	0.00
ATOM	5276	HB2	SER	X	351	58.459	9.652	50.433	0.00	0.00
ATOM	5277	HB3	SER	X	351	59.742	10.719	50.690	0.00	0.00
ATOM	5278	OG	SER	X	351	58.262	10.889	52.052	0.00	0.00
ATOM	5279	HG	SER	X	351	58.899	11.478	52.462	0.00	0.00
ATOM	5280	C	SER	X	351	56.484	11.491	49.680	0.00	0.00
ATOM	5281	O	SER	X	351	55.803	12.362	50.108	0.00	0.00
ATOM	5282	N	ARG	X	352	55.863	10.348	49.280	0.00	0.00
ATOM	5283	H	ARG	X	352	56.388	9.562	48.925	0.00	0.00
ATOM	5284	CA	ARG	X	352	54.376	10.253	49.241	0.00	0.00
ATOM	5285	HA	ARG	X	352	53.978	10.986	48.539	0.00	0.00
ATOM	5286	CB	ARG	X	352	53.969	8.869	48.709	0.00	0.00
ATOM	5287	HB2	ARG	X	352	54.657	8.702	47.881	0.00	0.00
ATOM	5288	HB3	ARG	X	352	54.282	8.081	49.395	0.00	0.00
ATOM	5289	CG	ARG	X	352	52.472	8.754	48.239	0.00	0.00
ATOM	5290	HG2	ARG	X	352	51.770	9.130	48.983	0.00	0.00
ATOM	5291	HG3	ARG	X	352	52.498	9.287	47.288	0.00	0.00

ATOM	5292	CD	ARG	X	352	52.169	7.232	48.170	0.00	0.00
ATOM	5293	HD2	ARG	X	352	52.628	6.742	47.311	0.00	0.00
ATOM	5294	HD3	ARG	X	352	52.348	6.682	49.093	0.00	0.00
ATOM	5295	NE	ARG	X	352	50.730	7.082	47.854	0.00	0.00
ATOM	5296	HE	ARG	X	352	50.471	7.066	46.878	0.00	0.00
ATOM	5297	CZ	ARG	X	352	49.752	7.154	48.733	0.00	0.00
ATOM	5298	NH1	ARG	X	352	50.022	7.178	49.959	0.00	0.00
ATOM	5299	HH11	ARG	X	352	50.955	7.011	50.309	0.00	0.00
ATOM	5300	HH12	ARG	X	352	49.204	7.187	50.551	0.00	0.00
ATOM	5301	NH2	ARG	X	352	48.531	7.079	48.335	0.00	0.00
ATOM	5302	HH21	ARG	X	352	48.332	7.273	47.364	0.00	0.00
ATOM	5303	HH22	ARG	X	352	47.771	7.138	48.998	0.00	0.00
ATOM	5304	C	ARG	X	352	53.744	10.589	50.612	0.00	0.00
ATOM	5305	O	ARG	X	352	52.787	11.372	50.699	0.00	0.00
ATOM	5306	N	ALA	X	353	54.244	10.057	51.763	0.00	0.00
ATOM	5307	H	ALA	X	353	54.988	9.374	51.726	0.00	0.00
ATOM	5308	CA	ALA	X	353	53.832	10.428	53.141	0.00	0.00
ATOM	5309	HA	ALA	X	353	52.821	10.022	53.161	0.00	0.00
ATOM	5310	CB	ALA	X	353	54.608	9.608	54.183	0.00	0.00
ATOM	5311	HB1	ALA	X	353	54.486	8.545	53.979	0.00	0.00
ATOM	5312	HB2	ALA	X	353	55.650	9.915	54.092	0.00	0.00
ATOM	5313	HB3	ALA	X	353	54.132	9.823	55.140	0.00	0.00
ATOM	5314	C	ALA	X	353	53.787	11.979	53.441	0.00	0.00
ATOM	5315	O	ALA	X	353	52.956	12.488	54.192	0.00	0.00
ATOM	5316	N	GLU	X	354	54.753	12.660	52.740	0.00	0.00
ATOM	5317	H	GLU	X	354	55.248	12.105	52.057	0.00	0.00
ATOM	5318	CA	GLU	X	354	55.082	14.082	52.752	0.00	0.00
ATOM	5319	HA	GLU	X	354	54.752	14.458	53.721	0.00	0.00
ATOM	5320	CB	GLU	X	354	56.625	14.274	52.589	0.00	0.00
ATOM	5321	HB2	GLU	X	354	56.923	13.919	51.603	0.00	0.00
ATOM	5322	HB3	GLU	X	354	56.834	15.343	52.544	0.00	0.00
ATOM	5323	CG	GLU	X	354	57.375	13.552	53.754	0.00	0.00
ATOM	5324	HG2	GLU	X	354	57.142	13.990	54.724	0.00	0.00
ATOM	5325	HG3	GLU	X	354	57.102	12.498	53.811	0.00	0.00
ATOM	5326	CD	GLU	X	354	58.873	13.643	53.518	0.00	0.00
ATOM	5327	OE1	GLU	X	354	59.373	13.395	52.387	0.00	0.00
ATOM	5328	OE2	GLU	X	354	59.606	13.859	54.530	0.00	0.00
ATOM	5329	C	GLU	X	354	54.317	14.879	51.753	0.00	0.00
ATOM	5330	O	GLU	X	354	54.100	16.064	51.911	0.00	0.00
ATOM	5331	N	PHE	X	355	53.769	14.201	50.715	0.00	0.00
ATOM	5332	H	PHE	X	355	54.048	13.241	50.570	0.00	0.00
ATOM	5333	CA	PHE	X	355	52.694	14.698	49.771	0.00	0.00
ATOM	5334	HA	PHE	X	355	52.899	15.738	49.516	0.00	0.00
ATOM	5335	CB	PHE	X	355	52.788	13.937	48.488	0.00	0.00
ATOM	5336	HB2	PHE	X	355	53.832	14.069	48.201	0.00	0.00
ATOM	5337	HB3	PHE	X	355	52.583	12.874	48.617	0.00	0.00
ATOM	5338	CG	PHE	X	355	51.800	14.354	47.363	0.00	0.00
ATOM	5339	CD1	PHE	X	355	51.633	15.719	47.137	0.00	0.00
ATOM	5340	HD1	PHE	X	355	52.296	16.457	47.564	0.00	0.00
ATOM	5341	CE1	PHE	X	355	50.608	16.171	46.346	0.00	0.00
ATOM	5342	HE1	PHE	X	355	50.421	17.226	46.206	0.00	0.00
ATOM	5343	CZ	PHE	X	355	49.807	15.207	45.655	0.00	0.00
ATOM	5344	HZ	PHE	X	355	48.915	15.527	45.136	0.00	0.00
ATOM	5345	CE2	PHE	X	355	50.083	13.835	45.832	0.00	0.00
ATOM	5346	HE2	PHE	X	355	49.486	13.129	45.274	0.00	0.00
ATOM	5347	CD2	PHE	X	355	51.021	13.389	46.783	0.00	0.00
ATOM	5348	HD2	PHE	X	355	51.315	12.382	47.042	0.00	0.00
ATOM	5349	C	PHE	X	355	51.379	14.757	50.437	0.00	0.00
ATOM	5350	O	PHE	X	355	50.720	15.844	50.331	0.00	0.00
ATOM	5351	N	LEU	X	356	50.994	13.681	51.128	0.00	0.00
ATOM	5352	H	LEU	X	356	51.554	12.841	51.146	0.00	0.00
ATOM	5353	CA	LEU	X	356	49.898	13.652	52.073	0.00	0.00
ATOM	5354	HA	LEU	X	356	49.022	13.752	51.433	0.00	0.00
ATOM	5355	CB	LEU	X	356	49.787	12.283	52.730	0.00	0.00
ATOM	5356	HB2	LEU	X	356	49.944	11.510	51.977	0.00	0.00
ATOM	5357	HB3	LEU	X	356	50.608	12.240	53.447	0.00	0.00
ATOM	5358	CG	LEU	X	356	48.449	12.045	53.492	0.00	0.00
ATOM	5359	HG	LEU	X	356	48.567	11.085	53.996	0.00	0.00
ATOM	5360	CD1	LEU	X	356	48.094	13.032	54.516	0.00	0.00
ATOM	5361	HD11	LEU	X	356	48.883	13.143	55.259	0.00	0.00

ATOM	5362	HD12	LEU	X	356	47.652	13.940	54.107	0.00	0.00
ATOM	5363	HD13	LEU	X	356	47.162	12.715	54.982	0.00	0.00
ATOM	5364	CD2	LEU	X	356	47.234	11.730	52.546	0.00	0.00
ATOM	5365	HD21	LEU	X	356	47.114	12.564	51.854	0.00	0.00
ATOM	5366	HD22	LEU	X	356	47.359	10.832	51.940	0.00	0.00
ATOM	5367	HD23	LEU	X	356	46.328	11.475	53.096	0.00	0.00
ATOM	5368	C	LEU	X	356	49.972	14.759	53.088	0.00	0.00
ATOM	5369	O	LEU	X	356	49.117	15.714	53.110	0.00	0.00
ATOM	5370	N	ALA	X	357	50.961	14.813	53.964	0.00	0.00
ATOM	5371	H	ALA	X	357	51.671	14.095	53.922	0.00	0.00
ATOM	5372	CA	ALA	X	357	51.184	15.924	54.834	0.00	0.00
ATOM	5373	HA	ALA	X	357	50.323	15.890	55.502	0.00	0.00
ATOM	5374	CB	ALA	X	357	52.476	15.743	55.690	0.00	0.00
ATOM	5375	HB1	ALA	X	357	52.584	14.727	56.070	0.00	0.00
ATOM	5376	HB2	ALA	X	357	53.380	15.926	55.108	0.00	0.00
ATOM	5377	HB3	ALA	X	357	52.282	16.333	56.585	0.00	0.00
ATOM	5378	C	ALA	X	357	51.065	17.319	54.198	0.00	0.00
ATOM	5379	O	ALA	X	357	50.536	18.272	54.761	0.00	0.00
ATOM	5380	N	GLY	X	358	51.604	17.455	52.964	0.00	0.00
ATOM	5381	H	GLY	X	358	52.219	16.766	52.555	0.00	0.00
ATOM	5382	CA	GLY	X	358	51.600	18.758	52.291	0.00	0.00
ATOM	5383	HA2	GLY	X	358	52.049	19.473	52.943	0.00	0.00
ATOM	5384	HA3	GLY	X	358	52.309	18.616	51.469	0.00	0.00
ATOM	5385	C	GLY	X	358	50.260	19.178	51.756	0.00	0.00
ATOM	5386	O	GLY	X	358	49.824	20.273	52.107	0.00	0.00
ATOM	5387	N	VAL	X	359	49.452	18.256	51.213	0.00	0.00
ATOM	5388	H	VAL	X	359	49.908	17.409	50.905	0.00	0.00
ATOM	5389	CA	VAL	X	359	48.014	18.378	50.992	0.00	0.00
ATOM	5390	HA	VAL	X	359	47.913	19.144	50.223	0.00	0.00
ATOM	5391	CB	VAL	X	359	47.373	17.098	50.521	0.00	0.00
ATOM	5392	HB	VAL	X	359	47.898	16.339	51.102	0.00	0.00
ATOM	5393	CG1	VAL	X	359	45.881	16.930	50.735	0.00	0.00
ATOM	5394	HG11	VAL	X	359	45.577	15.889	50.627	0.00	0.00
ATOM	5395	HG12	VAL	X	359	45.683	17.066	51.799	0.00	0.00
ATOM	5396	HG13	VAL	X	359	45.284	17.563	50.078	0.00	0.00
ATOM	5397	CG2	VAL	X	359	47.786	16.848	49.063	0.00	0.00
ATOM	5398	HG21	VAL	X	359	48.064	15.800	48.956	0.00	0.00
ATOM	5399	HG22	VAL	X	359	47.033	17.014	48.292	0.00	0.00
ATOM	5400	HG23	VAL	X	359	48.718	17.300	48.724	0.00	0.00
ATOM	5401	C	VAL	X	359	47.283	18.896	52.220	0.00	0.00
ATOM	5402	O	VAL	X	359	46.529	19.865	52.172	0.00	0.00
ATOM	5403	N	ARG	X	360	47.579	18.309	53.407	0.00	0.00
ATOM	5404	H	ARG	X	360	48.328	17.633	53.452	0.00	0.00
ATOM	5405	CA	ARG	X	360	46.916	18.711	54.667	0.00	0.00
ATOM	5406	HA	ARG	X	360	45.839	18.737	54.506	0.00	0.00
ATOM	5407	CB	ARG	X	360	47.235	17.675	55.789	0.00	0.00
ATOM	5408	HB2	ARG	X	360	48.234	17.285	55.596	0.00	0.00
ATOM	5409	HB3	ARG	X	360	47.127	18.100	56.787	0.00	0.00
ATOM	5410	CG	ARG	X	360	46.326	16.484	55.690	0.00	0.00
ATOM	5411	HG2	ARG	X	360	45.276	16.772	55.735	0.00	0.00
ATOM	5412	HG3	ARG	X	360	46.584	16.009	54.744	0.00	0.00
ATOM	5413	CD	ARG	X	360	46.545	15.435	56.753	0.00	0.00
ATOM	5414	HD2	ARG	X	360	47.213	14.704	56.296	0.00	0.00
ATOM	5415	HD3	ARG	X	360	47.112	15.855	57.583	0.00	0.00
ATOM	5416	NE	ARG	X	360	45.271	14.782	57.168	0.00	0.00
ATOM	5417	HE	ARG	X	360	45.069	13.828	56.904	0.00	0.00
ATOM	5418	CZ	ARG	X	360	44.248	15.261	57.867	0.00	0.00
ATOM	5419	NH1	ARG	X	360	44.191	16.442	58.408	0.00	0.00
ATOM	5420	HH11	ARG	X	360	44.867	17.161	58.192	0.00	0.00
ATOM	5421	HH12	ARG	X	360	43.392	16.576	59.011	0.00	0.00
ATOM	5422	NH2	ARG	X	360	43.224	14.438	57.997	0.00	0.00
ATOM	5423	HH21	ARG	X	360	43.302	13.537	57.547	0.00	0.00
ATOM	5424	HH22	ARG	X	360	42.414	14.774	58.498	0.00	0.00
ATOM	5425	C	ARG	X	360	47.249	20.136	55.186	0.00	0.00
ATOM	5426	O	ARG	X	360	46.405	20.649	55.840	0.00	0.00
ATOM	5427	N	VAL	X	361	48.401	20.695	54.734	0.00	0.00
ATOM	5428	H	VAL	X	361	48.993	20.128	54.144	0.00	0.00
ATOM	5429	CA	VAL	X	361	48.665	22.119	54.942	0.00	0.00
ATOM	5430	HA	VAL	X	361	48.094	22.291	55.855	0.00	0.00
ATOM	5431	CB	VAL	X	361	50.154	22.387	55.408	0.00	0.00

ATOM	5432	HB	VAL	X	361	50.170	23.417	55.763	0.00	0.00
ATOM	5433	CG1	VAL	X	361	50.478	21.512	56.597	0.00	0.00
ATOM	5434	HG11	VAL	X	361	51.322	21.907	57.163	0.00	0.00
ATOM	5435	HG12	VAL	X	361	49.617	21.469	57.263	0.00	0.00
ATOM	5436	HG13	VAL	X	361	50.726	20.485	56.331	0.00	0.00
ATOM	5437	CG2	VAL	X	361	51.232	22.375	54.298	0.00	0.00
ATOM	5438	HG21	VAL	X	361	52.222	22.620	54.685	0.00	0.00
ATOM	5439	HG22	VAL	X	361	51.210	21.380	53.854	0.00	0.00
ATOM	5440	HG23	VAL	X	361	50.957	23.053	53.490	0.00	0.00
ATOM	5441	C	VAL	X	361	48.279	23.109	53.776	0.00	0.00
ATOM	5442	O	VAL	X	361	48.491	24.306	53.952	0.00	0.00
ATOM	5443	N	GLY	X	362	47.720	22.588	52.629	0.00	0.00
ATOM	5444	H	GLY	X	362	47.595	21.590	52.546	0.00	0.00
ATOM	5445	CA	GLY	X	362	47.153	23.377	51.559	0.00	0.00
ATOM	5446	HA2	GLY	X	362	47.418	24.443	51.585	0.00	0.00
ATOM	5447	HA3	GLY	X	362	47.417	22.895	50.663	0.00	0.00
ATOM	5448	C	GLY	X	362	45.670	23.352	51.585	0.00	0.00
ATOM	5449	O	GLY	X	362	45.124	24.176	50.865	0.00	0.00
ATOM	5450	N	VAL	X	363	45.013	22.443	52.292	0.00	0.00
ATOM	5451	H	VAL	X	363	45.544	21.623	52.546	0.00	0.00
ATOM	5452	CA	VAL	X	363	43.499	22.477	52.510	0.00	0.00
ATOM	5453	HA	VAL	X	363	43.138	23.425	52.110	0.00	0.00
ATOM	5454	CB	VAL	X	363	42.700	21.336	51.848	0.00	0.00
ATOM	5455	HB	VAL	X	363	41.782	21.211	52.422	0.00	0.00
ATOM	5456	CG1	VAL	X	363	42.273	21.836	50.422	0.00	0.00
ATOM	5457	HG11	VAL	X	363	43.153	22.172	49.873	0.00	0.00
ATOM	5458	HG12	VAL	X	363	41.702	21.125	49.824	0.00	0.00
ATOM	5459	HG13	VAL	X	363	41.525	22.622	50.531	0.00	0.00
ATOM	5460	CG2	VAL	X	363	43.378	19.995	51.607	0.00	0.00
ATOM	5461	HG21	VAL	X	363	42.739	19.329	51.027	0.00	0.00
ATOM	5462	HG22	VAL	X	363	44.302	20.067	51.034	0.00	0.00
ATOM	5463	HG23	VAL	X	363	43.693	19.475	52.512	0.00	0.00
ATOM	5464	C	VAL	X	363	43.242	22.444	53.978	0.00	0.00
ATOM	5465	O	VAL	X	363	43.584	21.520	54.685	0.00	0.00
ATOM	5466	N	PRO	X	364	42.622	23.484	54.603	0.00	0.00
ATOM	5467	CD	PRO	X	364	42.196	24.806	53.959	0.00	0.00
ATOM	5468	HD2	PRO	X	364	41.622	24.631	53.049	0.00	0.00
ATOM	5469	HD3	PRO	X	364	43.062	25.430	53.738	0.00	0.00
ATOM	5470	CG	PRO	X	364	41.422	25.512	55.006	0.00	0.00
ATOM	5471	HG2	PRO	X	364	40.341	25.442	54.887	0.00	0.00
ATOM	5472	HG3	PRO	X	364	41.706	26.565	55.003	0.00	0.00
ATOM	5473	CB	PRO	X	364	41.821	24.962	56.389	0.00	0.00
ATOM	5474	HB2	PRO	X	364	41.009	24.911	57.115	0.00	0.00
ATOM	5475	HB3	PRO	X	364	42.620	25.557	56.831	0.00	0.00
ATOM	5476	CA	PRO	X	364	42.393	23.583	56.066	0.00	0.00
ATOM	5477	HA	PRO	X	364	43.268	23.292	56.648	0.00	0.00
ATOM	5478	C	PRO	X	364	41.383	22.591	56.444	0.00	0.00
ATOM	5479	O	PRO	X	364	40.452	22.365	55.727	0.00	0.00
ATOM	5480	N	GLN	X	365	41.548	22.051	57.680	0.00	0.00
ATOM	5481	H	GLN	X	365	42.426	22.342	58.086	0.00	0.00
ATOM	5482	CA	GLN	X	365	40.621	21.161	58.448	0.00	0.00
ATOM	5483	HA	GLN	X	365	41.225	20.786	59.274	0.00	0.00
ATOM	5484	CB	GLN	X	365	39.479	21.983	59.083	0.00	0.00
ATOM	5485	HB2	GLN	X	365	38.742	22.390	58.390	0.00	0.00
ATOM	5486	HB3	GLN	X	365	39.025	21.442	59.912	0.00	0.00
ATOM	5487	CG	GLN	X	365	39.986	23.295	59.776	0.00	0.00
ATOM	5488	HG2	GLN	X	365	40.734	22.816	60.407	0.00	0.00
ATOM	5489	HG3	GLN	X	365	40.530	23.885	59.038	0.00	0.00
ATOM	5490	CD	GLN	X	365	38.987	24.085	60.632	0.00	0.00
ATOM	5491	OE1	GLN	X	365	37.861	23.657	60.895	0.00	0.00
ATOM	5492	NE2	GLN	X	365	39.347	25.256	61.035	0.00	0.00
ATOM	5493	HE21	GLN	X	365	38.656	25.744	61.587	0.00	0.00
ATOM	5494	HE22	GLN	X	365	40.161	25.740	60.683	0.00	0.00
ATOM	5495	C	GLN	X	365	40.070	20.007	57.656	0.00	0.00
ATOM	5496	O	GLN	X	365	38.825	19.754	57.590	0.00	0.00
ATOM	5497	N	VAL	X	366	40.908	19.312	56.908	0.00	0.00
ATOM	5498	H	VAL	X	366	41.879	19.591	56.921	0.00	0.00
ATOM	5499	CA	VAL	X	366	40.471	18.378	55.818	0.00	0.00
ATOM	5500	HA	VAL	X	366	39.522	18.737	55.418	0.00	0.00
ATOM	5501	CB	VAL	X	366	41.446	18.272	54.622	0.00	0.00

ATOM	5502	HB	VAL	X	366	41.807	19.280	54.419	0.00	0.00
ATOM	5503	CG1	VAL	X	366	42.652	17.409	54.866	0.00	0.00
ATOM	5504	HG11	VAL	X	366	43.211	17.589	55.784	0.00	0.00
ATOM	5505	HG12	VAL	X	366	42.450	16.339	54.897	0.00	0.00
ATOM	5506	HG13	VAL	X	366	43.338	17.684	54.065	0.00	0.00
ATOM	5507	CG2	VAL	X	366	40.888	17.649	53.317	0.00	0.00
ATOM	5508	HG21	VAL	X	366	40.650	16.591	53.424	0.00	0.00
ATOM	5509	HG22	VAL	X	366	40.054	18.258	52.970	0.00	0.00
ATOM	5510	HG23	VAL	X	366	41.722	17.752	52.623	0.00	0.00
ATOM	5511	C	VAL	X	366	40.233	17.043	56.408	0.00	0.00
ATOM	5512	O	VAL	X	366	40.867	16.645	57.380	0.00	0.00
ATOM	5513	N	SER	X	367	39.263	16.286	55.843	0.00	0.00
ATOM	5514	H	SER	X	367	38.800	16.611	55.006	0.00	0.00
ATOM	5515	CA	SER	X	367	39.175	14.887	56.203	0.00	0.00
ATOM	5516	HA	SER	X	367	39.138	14.871	57.292	0.00	0.00
ATOM	5517	CB	SER	X	367	37.826	14.224	55.766	0.00	0.00
ATOM	5518	HB2	SER	X	367	37.759	14.146	54.681	0.00	0.00
ATOM	5519	HB3	SER	X	367	37.772	13.268	56.288	0.00	0.00
ATOM	5520	OG	SER	X	367	36.759	15.088	56.201	0.00	0.00
ATOM	5521	HG	SER	X	367	35.883	14.701	56.132	0.00	0.00
ATOM	5522	C	SER	X	367	40.317	14.101	55.680	0.00	0.00
ATOM	5523	O	SER	X	367	40.718	14.211	54.500	0.00	0.00
ATOM	5524	N	ASP	X	368	40.818	13.162	56.411	0.00	0.00
ATOM	5525	H	ASP	X	368	40.411	13.163	57.336	0.00	0.00
ATOM	5526	CA	ASP	X	368	41.602	12.104	56.018	0.00	0.00
ATOM	5527	HA	ASP	X	368	42.657	12.347	55.886	0.00	0.00
ATOM	5528	CB	ASP	X	368	41.667	11.137	57.236	0.00	0.00
ATOM	5529	HB2	ASP	X	368	42.242	11.545	58.067	0.00	0.00
ATOM	5530	HB3	ASP	X	368	40.675	10.852	57.587	0.00	0.00
ATOM	5531	CG	ASP	X	368	42.330	9.743	57.039	0.00	0.00
ATOM	5532	OD1	ASP	X	368	41.803	8.649	57.423	0.00	0.00
ATOM	5533	OD2	ASP	X	368	43.463	9.740	56.512	0.00	0.00
ATOM	5534	C	ASP	X	368	41.071	11.355	54.826	0.00	0.00
ATOM	5535	O	ASP	X	368	41.809	11.046	53.886	0.00	0.00
ATOM	5536	N	LEU	X	369	39.809	10.969	54.788	0.00	0.00
ATOM	5537	H	LEU	X	369	39.329	10.984	55.676	0.00	0.00
ATOM	5538	CA	LEU	X	369	39.139	10.314	53.579	0.00	0.00
ATOM	5539	HA	LEU	X	369	39.747	9.437	53.357	0.00	0.00
ATOM	5540	CB	LEU	X	369	37.702	9.906	53.840	0.00	0.00
ATOM	5541	HB2	LEU	X	369	37.618	9.346	54.771	0.00	0.00
ATOM	5542	HB3	LEU	X	369	37.188	10.839	54.071	0.00	0.00
ATOM	5543	CG	LEU	X	369	37.049	9.158	52.689	0.00	0.00
ATOM	5544	HG	LEU	X	369	37.351	9.609	51.744	0.00	0.00
ATOM	5545	CD1	LEU	X	369	37.512	7.680	52.616	0.00	0.00
ATOM	5546	HD11	LEU	X	369	37.063	7.178	53.474	0.00	0.00
ATOM	5547	HD12	LEU	X	369	37.097	7.299	51.683	0.00	0.00
ATOM	5548	HD13	LEU	X	369	38.595	7.558	52.637	0.00	0.00
ATOM	5549	CD2	LEU	X	369	35.458	9.161	52.691	0.00	0.00
ATOM	5550	HD21	LEU	X	369	35.082	9.101	51.670	0.00	0.00
ATOM	5551	HD22	LEU	X	369	35.235	8.321	53.349	0.00	0.00
ATOM	5552	HD23	LEU	X	369	35.041	10.074	53.115	0.00	0.00
ATOM	5553	C	LEU	X	369	39.267	11.200	52.309	0.00	0.00
ATOM	5554	O	LEU	X	369	39.569	10.707	51.189	0.00	0.00
ATOM	5555	N	ALA	X	370	39.157	12.529	52.457	0.00	0.00
ATOM	5556	H	ALA	X	370	39.152	12.899	53.397	0.00	0.00
ATOM	5557	CA	ALA	X	370	39.238	13.533	51.417	0.00	0.00
ATOM	5558	HA	ALA	X	370	38.681	13.069	50.602	0.00	0.00
ATOM	5559	CB	ALA	X	370	38.642	14.889	51.897	0.00	0.00
ATOM	5560	HB1	ALA	X	370	38.912	15.147	52.920	0.00	0.00
ATOM	5561	HB2	ALA	X	370	39.064	15.614	51.201	0.00	0.00
ATOM	5562	HB3	ALA	X	370	37.566	14.967	51.739	0.00	0.00
ATOM	5563	C	ALA	X	370	40.742	13.650	50.971	0.00	0.00
ATOM	5564	O	ALA	X	370	40.946	13.496	49.760	0.00	0.00
ATOM	5565	N	ALA	X	371	41.731	13.843	51.823	0.00	0.00
ATOM	5566	H	ALA	X	371	41.454	13.992	52.782	0.00	0.00
ATOM	5567	CA	ALA	X	371	43.186	13.864	51.652	0.00	0.00
ATOM	5568	HA	ALA	X	371	43.408	14.756	51.066	0.00	0.00
ATOM	5569	CB	ALA	X	371	43.719	14.121	53.075	0.00	0.00
ATOM	5570	HB1	ALA	X	371	44.787	14.309	52.962	0.00	0.00
ATOM	5571	HB2	ALA	X	371	43.159	14.915	53.569	0.00	0.00

ATOM	5572	HB3	ALA	X	371	43.647	13.214	53.675	0.00	0.00
ATOM	5573	C	ALA	X	371	43.727	12.625	50.969	0.00	0.00
ATOM	5574	O	ALA	X	371	44.399	12.698	49.972	0.00	0.00
ATOM	5575	N	GLU	X	372	43.264	11.455	51.320	0.00	0.00
ATOM	5576	H	GLU	X	372	42.497	11.423	51.976	0.00	0.00
ATOM	5577	CA	GLU	X	372	43.580	10.197	50.585	0.00	0.00
ATOM	5578	HA	GLU	X	372	44.656	10.032	50.650	0.00	0.00
ATOM	5579	CB	GLU	X	372	43.057	9.010	51.366	0.00	0.00
ATOM	5580	HB2	GLU	X	372	43.067	9.176	52.443	0.00	0.00
ATOM	5581	HB3	GLU	X	372	41.984	8.944	51.186	0.00	0.00
ATOM	5582	CG	GLU	X	372	43.725	7.670	51.144	0.00	0.00
ATOM	5583	HG2	GLU	X	372	43.191	6.935	51.747	0.00	0.00
ATOM	5584	HG3	GLU	X	372	43.654	7.289	50.125	0.00	0.00
ATOM	5585	CD	GLU	X	372	45.177	7.586	51.601	0.00	0.00
ATOM	5586	OE1	GLU	X	372	45.946	7.199	50.683	0.00	0.00
ATOM	5587	OE2	GLU	X	372	45.530	7.902	52.778	0.00	0.00
ATOM	5588	C	GLU	X	372	43.083	10.141	49.150	0.00	0.00
ATOM	5589	O	GLU	X	372	43.778	9.651	48.285	0.00	0.00
ATOM	5590	N	ALA	X	373	41.878	10.758	48.868	0.00	0.00
ATOM	5591	H	ALA	X	373	41.214	10.840	49.626	0.00	0.00
ATOM	5592	CA	ALA	X	373	41.338	10.796	47.500	0.00	0.00
ATOM	5593	HA	ALA	X	373	41.370	9.772	47.127	0.00	0.00
ATOM	5594	CB	ALA	X	373	39.836	11.197	47.514	0.00	0.00
ATOM	5595	HB1	ALA	X	373	39.266	10.288	47.706	0.00	0.00
ATOM	5596	HB2	ALA	X	373	39.580	11.900	48.307	0.00	0.00
ATOM	5597	HB3	ALA	X	373	39.494	11.591	46.557	0.00	0.00
ATOM	5598	C	ALA	X	373	42.101	11.774	46.636	0.00	0.00
ATOM	5599	O	ALA	X	373	42.532	11.516	45.548	0.00	0.00
ATOM	5600	N	VAL	X	374	42.326	12.965	47.210	0.00	0.00
ATOM	5601	H	VAL	X	374	41.951	12.998	48.147	0.00	0.00
ATOM	5602	CA	VAL	X	374	43.210	14.002	46.678	0.00	0.00
ATOM	5603	HA	VAL	X	374	42.726	14.425	45.798	0.00	0.00
ATOM	5604	CB	VAL	X	374	43.401	15.129	47.686	0.00	0.00
ATOM	5605	HB	VAL	X	374	43.699	14.668	48.628	0.00	0.00
ATOM	5606	CG1	VAL	X	374	44.604	16.040	47.116	0.00	0.00
ATOM	5607	HG11	VAL	X	374	45.545	15.620	47.470	0.00	0.00
ATOM	5608	HG12	VAL	X	374	44.494	16.246	46.051	0.00	0.00
ATOM	5609	HG13	VAL	X	374	44.522	17.014	47.598	0.00	0.00
ATOM	5610	CG2	VAL	X	374	42.111	15.916	47.852	0.00	0.00
ATOM	5611	HG21	VAL	X	374	41.219	15.291	47.901	0.00	0.00
ATOM	5612	HG22	VAL	X	374	42.008	16.638	48.662	0.00	0.00
ATOM	5613	HG23	VAL	X	374	41.945	16.555	46.985	0.00	0.00
ATOM	5614	C	VAL	X	374	44.544	13.368	46.249	0.00	0.00
ATOM	5615	O	VAL	X	374	44.888	13.433	45.031	0.00	0.00
ATOM	5616	N	VAL	X	375	45.281	12.731	47.117	0.00	0.00
ATOM	5617	H	VAL	X	375	44.972	12.698	48.078	0.00	0.00
ATOM	5618	CA	VAL	X	375	46.613	12.095	46.771	0.00	0.00
ATOM	5619	HA	VAL	X	375	47.223	12.936	46.443	0.00	0.00
ATOM	5620	CB	VAL	X	375	47.289	11.462	47.959	0.00	0.00
ATOM	5621	HB	VAL	X	375	46.536	10.855	48.462	0.00	0.00
ATOM	5622	CG1	VAL	X	375	48.422	10.536	47.564	0.00	0.00
ATOM	5623	HG11	VAL	X	375	47.999	9.744	46.946	0.00	0.00
ATOM	5624	HG12	VAL	X	375	49.209	10.974	46.949	0.00	0.00
ATOM	5625	HG13	VAL	X	375	48.854	10.038	48.432	0.00	0.00
ATOM	5626	CG2	VAL	X	375	47.863	12.470	48.958	0.00	0.00
ATOM	5627	HG21	VAL	X	375	48.389	11.977	49.776	0.00	0.00
ATOM	5628	HG22	VAL	X	375	48.529	13.068	48.336	0.00	0.00
ATOM	5629	HG23	VAL	X	375	47.075	13.007	49.486	0.00	0.00
ATOM	5630	C	VAL	X	375	46.522	11.170	45.539	0.00	0.00
ATOM	5631	O	VAL	X	375	47.419	11.325	44.718	0.00	0.00
ATOM	5632	N	LEU	X	376	45.506	10.291	45.447	0.00	0.00
ATOM	5633	H	LEU	X	376	44.771	10.288	46.140	0.00	0.00
ATOM	5634	CA	LEU	X	376	45.277	9.441	44.306	0.00	0.00
ATOM	5635	HA	LEU	X	376	46.152	8.832	44.077	0.00	0.00
ATOM	5636	CB	LEU	X	376	44.038	8.537	44.596	0.00	0.00
ATOM	5637	HB2	LEU	X	376	44.187	7.886	45.457	0.00	0.00
ATOM	5638	HB3	LEU	X	376	43.225	9.189	44.916	0.00	0.00
ATOM	5639	CG	LEU	X	376	43.519	7.504	43.577	0.00	0.00
ATOM	5640	HG	LEU	X	376	43.038	8.124	42.820	0.00	0.00
ATOM	5641	CD1	LEU	X	376	44.631	6.637	43.027	0.00	0.00

ATOM	5642	HD11	LEU	X	376	44.197	5.731	42.604	0.00	0.00
ATOM	5643	HD12	LEU	X	376	45.197	7.138	42.242	0.00	0.00
ATOM	5644	HD13	LEU	X	376	45.353	6.377	43.801	0.00	0.00
ATOM	5645	CD2	LEU	X	376	42.394	6.668	44.132	0.00	0.00
ATOM	5646	HD21	LEU	X	376	41.999	5.962	43.402	0.00	0.00
ATOM	5647	HD22	LEU	X	376	42.790	6.086	44.964	0.00	0.00
ATOM	5648	HD23	LEU	X	376	41.687	7.329	44.634	0.00	0.00
ATOM	5649	C	LEU	X	376	45.109	10.225	42.998	0.00	0.00
ATOM	5650	O	LEU	X	376	45.824	9.972	42.047	0.00	0.00
ATOM	5651	N	HIE	X	377	44.301	11.253	43.012	0.00	0.00
ATOM	5652	H	HIE	X	377	43.662	11.412	43.778	0.00	0.00
ATOM	5653	CA	HIE	X	377	43.898	12.101	41.882	0.00	0.00
ATOM	5654	HA	HIE	X	377	43.589	11.538	41.001	0.00	0.00
ATOM	5655	CB	HIE	X	377	42.684	12.952	42.381	0.00	0.00
ATOM	5656	HB2	HIE	X	377	41.792	12.335	42.489	0.00	0.00
ATOM	5657	HB3	HIE	X	377	43.019	13.411	43.311	0.00	0.00
ATOM	5658	CG	HIE	X	377	42.385	14.068	41.408	0.00	0.00
ATOM	5659	ND1	HIE	X	377	41.905	13.950	40.121	0.00	0.00
ATOM	5660	CE1	HIE	X	377	41.722	15.237	39.747	0.00	0.00
ATOM	5661	HE1	HIE	X	377	41.394	15.583	38.779	0.00	0.00
ATOM	5662	NE2	HIE	X	377	41.974	16.099	40.706	0.00	0.00
ATOM	5663	HE2	HIE	X	377	41.976	17.101	40.579	0.00	0.00
ATOM	5664	CD2	HIE	X	377	42.284	15.364	41.746	0.00	0.00
ATOM	5665	HD2	HIE	X	377	42.612	15.709	42.715	0.00	0.00
ATOM	5666	C	HIE	X	377	45.114	12.944	41.393	0.00	0.00
ATOM	5667	O	HIE	X	377	44.951	13.508	40.299	0.00	0.00
ATOM	5668	N	TYR	X	378	46.318	12.973	41.992	0.00	0.00
ATOM	5669	H	TYR	X	378	46.422	12.472	42.863	0.00	0.00
ATOM	5670	CA	TYR	X	378	47.498	13.639	41.509	0.00	0.00
ATOM	5671	HA	TYR	X	378	47.303	13.954	40.484	0.00	0.00
ATOM	5672	CB	TYR	X	378	47.803	14.804	42.480	0.00	0.00
ATOM	5673	HB2	TYR	X	378	47.697	14.427	43.497	0.00	0.00
ATOM	5674	HB3	TYR	X	378	48.844	15.127	42.502	0.00	0.00
ATOM	5675	CG	TYR	X	378	46.928	16.021	42.287	0.00	0.00
ATOM	5676	CD1	TYR	X	378	47.414	17.043	41.513	0.00	0.00
ATOM	5677	HD1	TYR	X	378	48.349	16.973	40.978	0.00	0.00
ATOM	5678	CE1	TYR	X	378	46.790	18.262	41.471	0.00	0.00
ATOM	5679	HE1	TYR	X	378	47.214	19.080	40.908	0.00	0.00
ATOM	5680	CZ	TYR	X	378	45.542	18.354	42.107	0.00	0.00
ATOM	5681	OH	TYR	X	378	44.821	19.471	42.009	0.00	0.00
ATOM	5682	HH	TYR	X	378	45.343	20.107	41.515	0.00	0.00
ATOM	5683	CE2	TYR	X	378	44.979	17.287	42.834	0.00	0.00
ATOM	5684	HE2	TYR	X	378	44.080	17.444	43.411	0.00	0.00
ATOM	5685	CD2	TYR	X	378	45.671	16.091	42.827	0.00	0.00
ATOM	5686	HD2	TYR	X	378	45.311	15.254	43.407	0.00	0.00
ATOM	5687	C	TYR	X	378	48.714	12.747	41.428	0.00	0.00
ATOM	5688	O	TYR	X	378	49.807	13.221	41.109	0.00	0.00
ATOM	5689	N	THR	X	379	48.466	11.452	41.786	0.00	0.00
ATOM	5690	H	THR	X	379	47.509	11.200	41.990	0.00	0.00
ATOM	5691	CA	THR	X	379	49.442	10.372	41.729	0.00	0.00
ATOM	5692	HA	THR	X	379	50.388	10.769	42.095	0.00	0.00
ATOM	5693	CB	THR	X	379	49.031	9.200	42.594	0.00	0.00
ATOM	5694	HB	THR	X	379	47.963	8.991	42.540	0.00	0.00
ATOM	5695	CG2	THR	X	379	49.706	7.847	42.257	0.00	0.00
ATOM	5696	HG21	THR	X	379	49.434	7.536	41.248	0.00	0.00
ATOM	5697	HG22	THR	X	379	50.788	7.928	42.366	0.00	0.00
ATOM	5698	HG23	THR	X	379	49.333	7.031	42.876	0.00	0.00
ATOM	5699	OG1	THR	X	379	49.362	9.493	43.926	0.00	0.00
ATOM	5700	HG1	THR	X	379	48.716	10.149	44.198	0.00	0.00
ATOM	5701	C	THR	X	379	49.655	9.972	40.268	0.00	0.00
ATOM	5702	O	THR	X	379	48.712	9.711	39.593	0.00	0.00
ATOM	5703	N	ASP	X	380	50.860	10.043	39.757	0.00	0.00
ATOM	5704	H	ASP	X	380	51.574	10.288	40.427	0.00	0.00
ATOM	5705	CA	ASP	X	380	51.219	9.778	38.358	0.00	0.00
ATOM	5706	HA	ASP	X	380	50.531	10.343	37.730	0.00	0.00
ATOM	5707	CB	ASP	X	380	52.690	10.215	38.110	0.00	0.00
ATOM	5708	HB2	ASP	X	380	52.872	11.118	38.693	0.00	0.00
ATOM	5709	HB3	ASP	X	380	53.361	9.460	38.520	0.00	0.00
ATOM	5710	CG	ASP	X	380	52.809	10.431	36.591	0.00	0.00
ATOM	5711	OD1	ASP	X	380	53.448	9.625	35.899	0.00	0.00

ATOM	5712	OD2	ASP	X	380	52.292	11.459	36.178	0.00	0.00
ATOM	5713	C	ASP	X	380	51.075	8.345	37.851	0.00	0.00
ATOM	5714	O	ASP	X	380	51.397	7.417	38.550	0.00	0.00
ATOM	5715	N	TRP	X	381	50.550	8.068	36.650	0.00	0.00
ATOM	5716	H	TRP	X	381	50.610	8.870	36.040	0.00	0.00
ATOM	5717	CA	TRP	X	381	50.242	6.752	36.047	0.00	0.00
ATOM	5718	HA	TRP	X	381	49.744	6.229	36.863	0.00	0.00
ATOM	5719	CB	TRP	X	381	49.194	6.935	34.920	0.00	0.00
ATOM	5720	HB2	TRP	X	381	48.377	7.594	35.214	0.00	0.00
ATOM	5721	HB3	TRP	X	381	49.755	7.464	34.150	0.00	0.00
ATOM	5722	CG	TRP	X	381	48.552	5.661	34.337	0.00	0.00
ATOM	5723	CD1	TRP	X	381	47.469	4.975	34.806	0.00	0.00
ATOM	5724	HD1	TRP	X	381	46.899	5.299	35.665	0.00	0.00
ATOM	5725	NE1	TRP	X	381	47.309	3.779	34.076	0.00	0.00
ATOM	5726	HE1	TRP	X	381	46.558	3.124	34.240	0.00	0.00
ATOM	5727	CE2	TRP	X	381	48.350	3.596	33.149	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	48.777	2.545	32.390	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	48.187	1.641	32.379	0.00	0.00
ATOM	5730	CH2	TRP	X	381	49.983	2.668	31.691	0.00	0.00
ATOM	5731	HH2	TRP	X	381	50.461	1.858	31.160	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	50.787	3.809	31.826	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	51.764	3.806	31.365	0.00	0.00
ATOM	5734	CE3	TRP	X	381	50.374	4.840	32.626	0.00	0.00
ATOM	5735	HE3	TRP	X	381	51.089	5.649	32.653	0.00	0.00
ATOM	5736	CD2	TRP	X	381	49.186	4.757	33.394	0.00	0.00
ATOM	5737	C	TRP	X	381	51.572	5.941	35.746	0.00	0.00
ATOM	5738	O	TRP	X	381	51.447	4.708	35.574	0.00	0.00
ATOM	5739	N	LEU	X	382	52.763	6.573	35.718	0.00	0.00
ATOM	5740	H	LEU	X	382	52.867	7.531	36.020	0.00	0.00
ATOM	5741	CA	LEU	X	382	54.116	5.955	35.463	0.00	0.00
ATOM	5742	HA	LEU	X	382	53.958	4.877	35.441	0.00	0.00
ATOM	5743	CB	LEU	X	382	54.475	6.461	34.026	0.00	0.00
ATOM	5744	HB2	LEU	X	382	53.644	6.178	33.380	0.00	0.00
ATOM	5745	HB3	LEU	X	382	54.548	7.542	33.904	0.00	0.00
ATOM	5746	CG	LEU	X	382	55.737	5.764	33.446	0.00	0.00
ATOM	5747	HG	LEU	X	382	56.611	6.225	33.905	0.00	0.00
ATOM	5748	CD1	LEU	X	382	55.899	4.252	33.572	0.00	0.00
ATOM	5749	HD11	LEU	X	382	56.532	3.926	34.397	0.00	0.00
ATOM	5750	HD12	LEU	X	382	54.910	3.815	33.711	0.00	0.00
ATOM	5751	HD13	LEU	X	382	56.285	3.881	32.623	0.00	0.00
ATOM	5752	CD2	LEU	X	382	55.729	6.227	31.920	0.00	0.00
ATOM	5753	HD21	LEU	X	382	56.615	5.886	31.385	0.00	0.00
ATOM	5754	HD22	LEU	X	382	54.898	5.753	31.399	0.00	0.00
ATOM	5755	HD23	LEU	X	382	55.714	7.317	31.931	0.00	0.00
ATOM	5756	C	LEU	X	382	55.252	6.188	36.463	0.00	0.00
ATOM	5757	O	LEU	X	382	56.095	5.338	36.629	0.00	0.00
ATOM	5758	N	HIE	X	383	55.213	7.293	37.239	0.00	0.00
ATOM	5759	H	HIE	X	383	54.468	7.943	37.032	0.00	0.00
ATOM	5760	CA	HIE	X	383	56.150	7.646	38.251	0.00	0.00
ATOM	5761	HA	HIE	X	383	56.895	6.876	38.452	0.00	0.00
ATOM	5762	CB	HIE	X	383	56.917	8.861	37.757	0.00	0.00
ATOM	5763	HB2	HIE	X	383	56.262	9.732	37.755	0.00	0.00
ATOM	5764	HB3	HIE	X	383	57.656	9.102	38.521	0.00	0.00
ATOM	5765	CG	HIE	X	383	57.726	8.606	36.494	0.00	0.00
ATOM	5766	ND1	HIE	X	383	59.056	8.205	36.445	0.00	0.00
ATOM	5767	CE1	HIE	X	383	59.417	8.273	35.149	0.00	0.00
ATOM	5768	HE1	HIE	X	383	60.420	8.092	34.792	0.00	0.00
ATOM	5769	NE2	HIE	X	383	58.400	8.666	34.387	0.00	0.00
ATOM	5770	HE2	HIE	X	383	58.405	8.745	33.380	0.00	0.00
ATOM	5771	CD2	HIE	X	383	57.281	8.827	35.206	0.00	0.00
ATOM	5772	HD2	HIE	X	383	56.281	9.128	34.933	0.00	0.00
ATOM	5773	C	HIE	X	383	55.470	7.868	39.680	0.00	0.00
ATOM	5774	O	HIE	X	383	55.598	9.027	40.186	0.00	0.00
ATOM	5775	N	PRO	X	384	54.744	6.906	40.246	0.00	0.00
ATOM	5776	CD	PRO	X	384	54.657	5.492	39.834	0.00	0.00
ATOM	5777	HD2	PRO	X	384	55.627	5.082	39.554	0.00	0.00
ATOM	5778	HD3	PRO	X	384	54.043	5.249	38.967	0.00	0.00
ATOM	5779	CG	PRO	X	384	54.120	4.797	41.109	0.00	0.00
ATOM	5780	HG2	PRO	X	384	54.922	4.767	41.847	0.00	0.00
ATOM	5781	HG3	PRO	X	384	53.729	3.803	40.894	0.00	0.00

ATOM	5782	CB	PRO	X	384	52.995	5.783	41.493	0.00	0.00
ATOM	5783	HB2	PRO	X	384	52.751	5.623	42.543	0.00	0.00
ATOM	5784	HB3	PRO	X	384	52.201	5.730	40.748	0.00	0.00
ATOM	5785	CA	PRO	X	384	53.766	7.149	41.308	0.00	0.00
ATOM	5786	HA	PRO	X	384	52.942	7.819	41.064	0.00	0.00
ATOM	5787	C	PRO	X	384	54.309	7.617	42.591	0.00	0.00
ATOM	5788	O	PRO	X	384	53.565	8.038	43.445	0.00	0.00
ATOM	5789	N	GLU	X	385	55.586	7.406	42.816	0.00	0.00
ATOM	5790	H	GLU	X	385	56.197	7.047	42.096	0.00	0.00
ATOM	5791	CA	GLU	X	385	56.271	7.860	44.065	0.00	0.00
ATOM	5792	HA	GLU	X	385	55.669	8.641	44.529	0.00	0.00
ATOM	5793	CB	GLU	X	385	56.400	6.710	45.106	0.00	0.00
ATOM	5794	HB2	GLU	X	385	57.235	6.075	44.810	0.00	0.00
ATOM	5795	HB3	GLU	X	385	56.696	7.241	46.011	0.00	0.00
ATOM	5796	CG	GLU	X	385	55.119	5.955	45.508	0.00	0.00
ATOM	5797	HG2	GLU	X	385	54.356	6.674	45.808	0.00	0.00
ATOM	5798	HG3	GLU	X	385	54.732	5.477	44.608	0.00	0.00
ATOM	5799	CD	GLU	X	385	55.428	4.927	46.606	0.00	0.00
ATOM	5800	OE1	GLU	X	385	55.616	5.305	47.786	0.00	0.00
ATOM	5801	OE2	GLU	X	385	55.453	3.744	46.255	0.00	0.00
ATOM	5802	C	GLU	X	385	57.655	8.537	43.848	0.00	0.00
ATOM	5803	O	GLU	X	385	58.426	8.747	44.767	0.00	0.00
ATOM	5804	N	ASP	X	386	57.985	8.894	42.618	0.00	0.00
ATOM	5805	H	ASP	X	386	57.263	8.813	41.918	0.00	0.00
ATOM	5806	CA	ASP	X	386	59.100	9.750	42.242	0.00	0.00
ATOM	5807	HA	ASP	X	386	60.042	9.226	42.402	0.00	0.00
ATOM	5808	CB	ASP	X	386	58.980	10.052	40.753	0.00	0.00
ATOM	5809	HB2	ASP	X	386	59.138	9.063	40.322	0.00	0.00
ATOM	5810	HB3	ASP	X	386	57.993	10.489	40.604	0.00	0.00
ATOM	5811	CG	ASP	X	386	60.148	10.914	40.236	0.00	0.00
ATOM	5812	OD1	ASP	X	386	61.285	10.578	40.628	0.00	0.00
ATOM	5813	OD2	ASP	X	386	59.823	11.900	39.543	0.00	0.00
ATOM	5814	C	ASP	X	386	59.041	11.168	42.948	0.00	0.00
ATOM	5815	O	ASP	X	386	58.116	11.947	42.689	0.00	0.00
ATOM	5816	N	PRO	X	387	60.073	11.562	43.732	0.00	0.00
ATOM	5817	CD	PRO	X	387	61.192	10.691	44.039	0.00	0.00
ATOM	5818	HD2	PRO	X	387	61.874	10.657	43.189	0.00	0.00
ATOM	5819	HD3	PRO	X	387	60.926	9.703	44.416	0.00	0.00
ATOM	5820	CG	PRO	X	387	62.023	11.325	45.174	0.00	0.00
ATOM	5821	HG2	PRO	X	387	63.071	11.162	44.923	0.00	0.00
ATOM	5822	HG3	PRO	X	387	61.613	10.912	46.096	0.00	0.00
ATOM	5823	CB	PRO	X	387	61.602	12.875	45.074	0.00	0.00
ATOM	5824	HB2	PRO	X	387	62.320	13.306	44.375	0.00	0.00
ATOM	5825	HB3	PRO	X	387	61.540	13.390	46.032	0.00	0.00
ATOM	5826	CA	PRO	X	387	60.147	12.817	44.480	0.00	0.00
ATOM	5827	HA	PRO	X	387	59.370	12.759	45.241	0.00	0.00
ATOM	5828	C	PRO	X	387	59.872	14.109	43.741	0.00	0.00
ATOM	5829	O	PRO	X	387	59.258	15.042	44.298	0.00	0.00
ATOM	5830	N	ALA	X	388	60.212	14.192	42.455	0.00	0.00
ATOM	5831	H	ALA	X	388	60.803	13.507	42.007	0.00	0.00
ATOM	5832	CA	ALA	X	388	59.921	15.355	41.561	0.00	0.00
ATOM	5833	HA	ALA	X	388	60.079	16.228	42.195	0.00	0.00
ATOM	5834	CB	ALA	X	388	60.984	15.291	40.439	0.00	0.00
ATOM	5835	HB1	ALA	X	388	61.103	16.219	39.880	0.00	0.00
ATOM	5836	HB2	ALA	X	388	61.874	14.937	40.959	0.00	0.00
ATOM	5837	HB3	ALA	X	388	60.618	14.537	39.741	0.00	0.00
ATOM	5838	C	ALA	X	388	58.458	15.393	41.051	0.00	0.00
ATOM	5839	O	ALA	X	388	57.863	16.480	40.965	0.00	0.00
ATOM	5840	N	ARG	X	389	57.797	14.290	40.756	0.00	0.00
ATOM	5841	H	ARG	X	389	58.341	13.439	40.737	0.00	0.00
ATOM	5842	CA	ARG	X	389	56.440	14.206	40.339	0.00	0.00
ATOM	5843	HA	ARG	X	389	56.218	14.930	39.555	0.00	0.00
ATOM	5844	CB	ARG	X	389	56.026	12.799	39.849	0.00	0.00
ATOM	5845	HB2	ARG	X	389	56.627	11.971	40.226	0.00	0.00
ATOM	5846	HB3	ARG	X	389	55.046	12.566	40.264	0.00	0.00
ATOM	5847	CG	ARG	X	389	56.068	12.766	38.342	0.00	0.00
ATOM	5848	HG2	ARG	X	389	55.484	11.894	38.048	0.00	0.00
ATOM	5849	HG3	ARG	X	389	55.687	13.682	37.891	0.00	0.00
ATOM	5850	CD	ARG	X	389	57.451	12.529	37.796	0.00	0.00
ATOM	5851	HD2	ARG	X	389	58.063	13.391	38.064	0.00	0.00

ATOM	5852	HD3	ARG	X	389	57.841	11.610	38.234	0.00	0.00
ATOM	5853	NE	ARG	X	389	57.533	12.487	36.395	0.00	0.00
ATOM	5854	HE	ARG	X	389	56.680	12.201	35.936	0.00	0.00
ATOM	5855	CZ	ARG	X	389	58.606	12.390	35.638	0.00	0.00
ATOM	5856	NH1	ARG	X	389	59.841	12.631	36.046	0.00	0.00
ATOM	5857	HH11	ARG	X	389	60.034	12.705	37.035	0.00	0.00
ATOM	5858	HH12	ARG	X	389	60.547	12.656	35.325	0.00	0.00
ATOM	5859	NH2	ARG	X	389	58.440	12.034	34.386	0.00	0.00
ATOM	5860	HH21	ARG	X	389	57.471	11.964	34.110	0.00	0.00
ATOM	5861	HH22	ARG	X	389	59.209	11.956	33.736	0.00	0.00
ATOM	5862	C	ARG	X	389	55.578	14.636	41.546	0.00	0.00
ATOM	5863	O	ARG	X	389	54.567	15.299	41.316	0.00	0.00
ATOM	5864	N	LEU	X	390	55.914	14.061	42.731	0.00	0.00
ATOM	5865	H	LEU	X	390	56.738	13.478	42.738	0.00	0.00
ATOM	5866	CA	LEU	X	390	55.279	14.515	44.013	0.00	0.00
ATOM	5867	HA	LEU	X	390	54.217	14.290	43.913	0.00	0.00
ATOM	5868	CB	LEU	X	390	55.922	13.690	45.135	0.00	0.00
ATOM	5869	HB2	LEU	X	390	57.005	13.800	45.074	0.00	0.00
ATOM	5870	HB3	LEU	X	390	55.485	14.084	46.053	0.00	0.00
ATOM	5871	CG	LEU	X	390	55.533	12.196	45.063	0.00	0.00
ATOM	5872	HG	LEU	X	390	55.920	11.867	44.099	0.00	0.00
ATOM	5873	CD1	LEU	X	390	56.321	11.453	46.159	0.00	0.00
ATOM	5874	HD11	LEU	X	390	57.375	11.627	45.943	0.00	0.00
ATOM	5875	HD12	LEU	X	390	56.189	11.874	47.156	0.00	0.00
ATOM	5876	HD13	LEU	X	390	56.153	10.387	46.005	0.00	0.00
ATOM	5877	CD2	LEU	X	390	54.010	11.818	45.204	0.00	0.00
ATOM	5878	HD21	LEU	X	390	53.896	10.745	45.045	0.00	0.00
ATOM	5879	HD22	LEU	X	390	53.760	12.013	46.247	0.00	0.00
ATOM	5880	HD23	LEU	X	390	53.410	12.417	44.518	0.00	0.00
ATOM	5881	C	LEU	X	390	55.350	16.019	44.285	0.00	0.00
ATOM	5882	O	LEU	X	390	54.347	16.676	44.589	0.00	0.00
ATOM	5883	N	ARG	X	391	56.582	16.604	44.222	0.00	0.00
ATOM	5884	H	ARG	X	391	57.379	16.001	44.076	0.00	0.00
ATOM	5885	CA	ARG	X	391	56.889	18.021	44.484	0.00	0.00
ATOM	5886	HA	ARG	X	391	56.535	18.367	45.454	0.00	0.00
ATOM	5887	CB	ARG	X	391	58.428	18.250	44.322	0.00	0.00
ATOM	5888	HB2	ARG	X	391	58.900	17.518	44.978	0.00	0.00
ATOM	5889	HB3	ARG	X	391	58.786	18.036	43.315	0.00	0.00
ATOM	5890	CG	ARG	X	391	58.749	19.717	44.629	0.00	0.00
ATOM	5891	HG2	ARG	X	391	57.939	20.315	44.210	0.00	0.00
ATOM	5892	HG3	ARG	X	391	58.712	19.851	45.710	0.00	0.00
ATOM	5893	CD	ARG	X	391	60.146	20.264	44.209	0.00	0.00
ATOM	5894	HD2	ARG	X	391	60.202	21.334	44.407	0.00	0.00
ATOM	5895	HD3	ARG	X	391	60.889	19.708	44.782	0.00	0.00
ATOM	5896	NE	ARG	X	391	60.370	20.070	42.764	0.00	0.00
ATOM	5897	HE	ARG	X	391	61.259	19.638	42.559	0.00	0.00
ATOM	5898	CZ	ARG	X	391	59.560	20.416	41.745	0.00	0.00
ATOM	5899	NH1	ARG	X	391	58.497	21.114	41.911	0.00	0.00
ATOM	5900	HH11	ARG	X	391	58.150	21.300	42.842	0.00	0.00
ATOM	5901	HH12	ARG	X	391	58.030	21.525	41.115	0.00	0.00
ATOM	5902	NH2	ARG	X	391	59.765	20.109	40.507	0.00	0.00
ATOM	5903	HH21	ARG	X	391	60.629	19.630	40.295	0.00	0.00
ATOM	5904	HH22	ARG	X	391	59.050	20.456	39.884	0.00	0.00
ATOM	5905	C	ARG	X	391	56.060	18.816	43.559	0.00	0.00
ATOM	5906	O	ARG	X	391	55.542	19.884	43.981	0.00	0.00
ATOM	5907	N	GLU	X	392	55.951	18.397	42.319	0.00	0.00
ATOM	5908	H	GLU	X	392	56.548	17.628	42.051	0.00	0.00
ATOM	5909	CA	GLU	X	392	55.350	19.225	41.261	0.00	0.00
ATOM	5910	HA	GLU	X	392	55.669	20.263	41.353	0.00	0.00
ATOM	5911	CB	GLU	X	392	55.831	18.705	39.950	0.00	0.00
ATOM	5912	HB2	GLU	X	392	56.916	18.627	40.020	0.00	0.00
ATOM	5913	HB3	GLU	X	392	55.275	17.771	39.867	0.00	0.00
ATOM	5914	CG	GLU	X	392	55.505	19.687	38.748	0.00	0.00
ATOM	5915	HG2	GLU	X	392	55.719	19.238	37.778	0.00	0.00
ATOM	5916	HG3	GLU	X	392	54.430	19.863	38.792	0.00	0.00
ATOM	5917	CD	GLU	X	392	56.309	20.994	38.861	0.00	0.00
ATOM	5918	OE1	GLU	X	392	55.702	22.077	38.826	0.00	0.00
ATOM	5919	OE2	GLU	X	392	57.526	20.915	38.981	0.00	0.00
ATOM	5920	C	GLU	X	392	53.847	19.125	41.352	0.00	0.00
ATOM	5921	O	GLU	X	392	53.197	20.128	41.099	0.00	0.00

ATOM	5922	N	ALA	X	393	53.248	17.990	41.686	0.00	0.00
ATOM	5923	H	ALA	X	393	53.751	17.122	41.804	0.00	0.00
ATOM	5924	CA	ALA	X	393	51.842	17.854	42.023	0.00	0.00
ATOM	5925	HA	ALA	X	393	51.264	18.355	41.246	0.00	0.00
ATOM	5926	CB	ALA	X	393	51.403	16.462	42.026	0.00	0.00
ATOM	5927	HB1	ALA	X	393	50.314	16.445	41.997	0.00	0.00
ATOM	5928	HB2	ALA	X	393	51.685	16.029	41.066	0.00	0.00
ATOM	5929	HB3	ALA	X	393	51.816	15.791	42.781	0.00	0.00
ATOM	5930	C	ALA	X	393	51.431	18.764	43.189	0.00	0.00
ATOM	5931	O	ALA	X	393	50.446	19.509	43.131	0.00	0.00
ATOM	5932	N	LEU	X	394	52.244	18.829	44.235	0.00	0.00
ATOM	5933	H	LEU	X	394	52.979	18.144	44.332	0.00	0.00
ATOM	5934	CA	LEU	X	394	51.926	19.781	45.291	0.00	0.00
ATOM	5935	HA	LEU	X	394	50.903	19.698	45.657	0.00	0.00
ATOM	5936	CB	LEU	X	394	52.849	19.360	46.436	0.00	0.00
ATOM	5937	HB2	LEU	X	394	52.881	18.270	46.459	0.00	0.00
ATOM	5938	HB3	LEU	X	394	53.847	19.643	46.100	0.00	0.00
ATOM	5939	CG	LEU	X	394	52.522	20.078	47.781	0.00	0.00
ATOM	5940	HG	LEU	X	394	52.654	21.154	47.665	0.00	0.00
ATOM	5941	CD1	LEU	X	394	51.129	19.919	48.419	0.00	0.00
ATOM	5942	HD11	LEU	X	394	50.434	20.192	47.626	0.00	0.00
ATOM	5943	HD12	LEU	X	394	50.723	18.925	48.603	0.00	0.00
ATOM	5944	HD13	LEU	X	394	50.932	20.562	49.277	0.00	0.00
ATOM	5945	CD2	LEU	X	394	53.443	19.549	48.874	0.00	0.00
ATOM	5946	HD21	LEU	X	394	54.469	19.794	48.597	0.00	0.00
ATOM	5947	HD22	LEU	X	394	53.191	20.014	49.826	0.00	0.00
ATOM	5948	HD23	LEU	X	394	53.325	18.470	48.980	0.00	0.00
ATOM	5949	C	LEU	X	394	51.968	21.279	44.947	0.00	0.00
ATOM	5950	O	LEU	X	394	51.051	22.041	45.302	0.00	0.00
ATOM	5951	N	SER	X	395	52.867	21.670	44.050	0.00	0.00
ATOM	5952	H	SER	X	395	53.703	21.167	43.792	0.00	0.00
ATOM	5953	CA	SER	X	395	52.894	22.977	43.550	0.00	0.00
ATOM	5954	HA	SER	X	395	52.868	23.631	44.422	0.00	0.00
ATOM	5955	CB	SER	X	395	54.232	23.332	42.828	0.00	0.00
ATOM	5956	HB2	SER	X	395	54.130	23.122	41.764	0.00	0.00
ATOM	5957	HB3	SER	X	395	54.443	24.400	42.884	0.00	0.00
ATOM	5958	OG	SER	X	395	55.433	22.727	43.254	0.00	0.00
ATOM	5959	HG	SER	X	395	56.063	22.823	42.536	0.00	0.00
ATOM	5960	C	SER	X	395	51.750	23.117	42.522	0.00	0.00
ATOM	5961	O	SER	X	395	51.391	24.241	42.185	0.00	0.00
ATOM	5962	N	ASP	X	396	51.236	22.066	41.937	0.00	0.00
ATOM	5963	H	ASP	X	396	51.677	21.158	41.977	0.00	0.00
ATOM	5964	CA	ASP	X	396	49.935	22.170	41.264	0.00	0.00
ATOM	5965	HA	ASP	X	396	50.082	23.040	40.623	0.00	0.00
ATOM	5966	CB	ASP	X	396	49.693	20.922	40.356	0.00	0.00
ATOM	5967	HB2	ASP	X	396	50.023	19.997	40.828	0.00	0.00
ATOM	5968	HB3	ASP	X	396	48.615	20.879	40.200	0.00	0.00
ATOM	5969	CG	ASP	X	396	50.146	20.935	38.862	0.00	0.00
ATOM	5970	OD1	ASP	X	396	49.751	21.833	38.079	0.00	0.00
ATOM	5971	OD2	ASP	X	396	50.630	19.858	38.499	0.00	0.00
ATOM	5972	C	ASP	X	396	48.750	22.292	42.243	0.00	0.00
ATOM	5973	O	ASP	X	396	47.950	23.215	42.057	0.00	0.00
ATOM	5974	N	VAL	X	397	48.661	21.445	43.213	0.00	0.00
ATOM	5975	H	VAL	X	397	49.245	20.627	43.311	0.00	0.00
ATOM	5976	CA	VAL	X	397	47.542	21.509	44.223	0.00	0.00
ATOM	5977	HA	VAL	X	397	46.559	21.308	43.797	0.00	0.00
ATOM	5978	CB	VAL	X	397	47.625	20.546	45.459	0.00	0.00
ATOM	5979	HB	VAL	X	397	48.582	20.836	45.892	0.00	0.00
ATOM	5980	CG1	VAL	X	397	46.525	20.764	46.521	0.00	0.00
ATOM	5981	HG11	VAL	X	397	46.658	21.765	46.931	0.00	0.00
ATOM	5982	HG12	VAL	X	397	45.512	20.632	46.141	0.00	0.00
ATOM	5983	HG13	VAL	X	397	46.759	20.163	47.400	0.00	0.00
ATOM	5984	CG2	VAL	X	397	47.756	19.078	45.174	0.00	0.00
ATOM	5985	HG21	VAL	X	397	48.374	18.497	45.859	0.00	0.00
ATOM	5986	HG22	VAL	X	397	46.778	18.640	44.976	0.00	0.00
ATOM	5987	HG23	VAL	X	397	48.287	18.936	44.232	0.00	0.00
ATOM	5988	C	VAL	X	397	47.426	22.954	44.821	0.00	0.00
ATOM	5989	O	VAL	X	397	46.342	23.509	44.759	0.00	0.00
ATOM	5990	N	VAL	X	398	48.491	23.502	45.435	0.00	0.00
ATOM	5991	H	VAL	X	398	49.415	23.095	45.431	0.00	0.00

ATOM	5992	CA	VAL	X	398	48.428	24.858	46.108	0.00	0.00
ATOM	5993	HA	VAL	X	398	47.745	24.782	46.954	0.00	0.00
ATOM	5994	CB	VAL	X	398	49.845	25.193	46.583	0.00	0.00
ATOM	5995	HB	VAL	X	398	50.580	25.033	45.794	0.00	0.00
ATOM	5996	CG1	VAL	X	398	50.007	26.474	47.388	0.00	0.00
ATOM	5997	HG11	VAL	X	398	49.236	26.409	48.155	0.00	0.00
ATOM	5998	HG12	VAL	X	398	51.033	26.450	47.756	0.00	0.00
ATOM	5999	HG13	VAL	X	398	49.761	27.392	46.853	0.00	0.00
ATOM	6000	CG2	VAL	X	398	50.313	24.068	47.584	0.00	0.00
ATOM	6001	HG21	VAL	X	398	50.159	23.039	47.258	0.00	0.00
ATOM	6002	HG22	VAL	X	398	51.355	24.313	47.789	0.00	0.00
ATOM	6003	HG23	VAL	X	398	49.723	24.157	48.496	0.00	0.00
ATOM	6004	C	VAL	X	398	47.943	25.974	45.238	0.00	0.00
ATOM	6005	O	VAL	X	398	47.265	26.875	45.695	0.00	0.00
ATOM	6006	N	GLY	X	399	48.121	25.882	43.921	0.00	0.00
ATOM	6007	H	GLY	X	399	48.529	25.031	43.562	0.00	0.00
ATOM	6008	CA	GLY	X	399	47.516	26.862	42.932	0.00	0.00
ATOM	6009	HA2	GLY	X	399	47.499	27.835	43.348	0.00	0.00
ATOM	6010	HA3	GLY	X	399	48.154	26.880	42.040	0.00	0.00
ATOM	6011	C	GLY	X	399	46.152	26.394	42.456	0.00	0.00
ATOM	6012	O	GLY	X	399	45.329	27.283	42.142	0.00	0.00
ATOM	6013	N	ASP	X	400	45.733	25.177	42.476	0.00	0.00
ATOM	6014	H	ASP	X	400	46.334	24.393	42.686	0.00	0.00
ATOM	6015	CA	ASP	X	400	44.528	24.742	41.701	0.00	0.00
ATOM	6016	HA	ASP	X	400	44.562	25.241	40.732	0.00	0.00
ATOM	6017	CB	ASP	X	400	44.371	23.251	41.315	0.00	0.00
ATOM	6018	HB2	ASP	X	400	44.495	22.673	42.230	0.00	0.00
ATOM	6019	HB3	ASP	X	400	43.414	23.023	40.844	0.00	0.00
ATOM	6020	CG	ASP	X	400	45.320	22.689	40.263	0.00	0.00
ATOM	6021	OD1	ASP	X	400	45.640	23.516	39.354	0.00	0.00
ATOM	6022	OD2	ASP	X	400	45.812	21.590	40.416	0.00	0.00
ATOM	6023	C	ASP	X	400	43.206	25.276	42.326	0.00	0.00
ATOM	6024	O	ASP	X	400	42.486	26.115	41.743	0.00	0.00
ATOM	6025	N	HIE	X	401	42.968	24.860	43.574	0.00	0.00
ATOM	6026	H	HIE	X	401	43.689	24.359	44.073	0.00	0.00
ATOM	6027	CA	HIE	X	401	41.751	25.086	44.374	0.00	0.00
ATOM	6028	HA	HIE	X	401	40.926	24.981	43.669	0.00	0.00
ATOM	6029	CB	HIE	X	401	41.595	24.080	45.524	0.00	0.00
ATOM	6030	HB2	HIE	X	401	40.546	24.128	45.815	0.00	0.00
ATOM	6031	HB3	HIE	X	401	41.820	23.064	45.199	0.00	0.00
ATOM	6032	CG	HIE	X	401	42.333	24.405	46.747	0.00	0.00
ATOM	6033	ND1	HIE	X	401	41.769	24.783	48.005	0.00	0.00
ATOM	6034	CE1	HIE	X	401	42.807	24.943	48.834	0.00	0.00
ATOM	6035	HE1	HIE	X	401	42.664	25.158	49.883	0.00	0.00
ATOM	6036	NE2	HIE	X	401	43.952	24.618	48.261	0.00	0.00
ATOM	6037	HE2	HIE	X	401	44.874	24.553	48.668	0.00	0.00
ATOM	6038	CD2	HIE	X	401	43.626	24.233	46.999	0.00	0.00
ATOM	6039	HD2	HIE	X	401	44.305	23.902	46.228	0.00	0.00
ATOM	6040	C	HIE	X	401	41.666	26.555	44.797	0.00	0.00
ATOM	6041	O	HIE	X	401	40.604	27.174	44.921	0.00	0.00
ATOM	6042	N	ASN	X	402	42.822	27.202	44.918	0.00	0.00
ATOM	6043	H	ASN	X	402	43.642	26.652	45.131	0.00	0.00
ATOM	6044	CA	ASN	X	402	42.934	28.624	45.298	0.00	0.00
ATOM	6045	HA	ASN	X	402	42.126	28.841	45.996	0.00	0.00
ATOM	6046	CB	ASN	X	402	44.226	28.794	46.090	0.00	0.00
ATOM	6047	HB2	ASN	X	402	45.042	28.323	45.541	0.00	0.00
ATOM	6048	HB3	ASN	X	402	44.518	29.841	46.173	0.00	0.00
ATOM	6049	CG	ASN	X	402	44.221	28.232	47.491	0.00	0.00
ATOM	6050	OD1	ASN	X	402	43.319	28.493	48.311	0.00	0.00
ATOM	6051	ND2	ASN	X	402	45.208	27.449	47.833	0.00	0.00
ATOM	6052	HD21	ASN	X	402	45.310	27.111	48.780	0.00	0.00
ATOM	6053	HD22	ASN	X	402	45.887	27.286	47.102	0.00	0.00
ATOM	6054	C	ASN	X	402	42.771	29.578	44.128	0.00	0.00
ATOM	6055	O	ASN	X	402	42.254	30.705	44.330	0.00	0.00
ATOM	6056	N	VAL	X	403	43.292	29.198	42.991	0.00	0.00
ATOM	6057	H	VAL	X	403	43.688	28.273	42.905	0.00	0.00
ATOM	6058	CA	VAL	X	403	43.623	30.079	41.852	0.00	0.00
ATOM	6059	HA	VAL	X	403	43.130	31.028	42.064	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.132	30.533	41.641	0.00	0.00
ATOM	6061	HB	VAL	X	403	45.767	29.685	41.381	0.00	0.00

ATOM	6062	CG1	VAL	X	403	45.115	31.530	40.413	0.00	0.00
ATOM	6063	HG11	VAL	X	403	44.267	32.211	40.490	0.00	0.00
ATOM	6064	HG12	VAL	X	403	46.056	32.078	40.352	0.00	0.00
ATOM	6065	HG13	VAL	X	403	44.951	30.899	39.539	0.00	0.00
ATOM	6066	CG2	VAL	X	403	45.758	31.351	42.826	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.792	31.608	42.597	0.00	0.00
ATOM	6068	HG22	VAL	X	403	45.117	32.215	43.001	0.00	0.00
ATOM	6069	HG23	VAL	X	403	45.688	30.674	43.677	0.00	0.00
ATOM	6070	C	VAL	X	403	43.001	29.536	40.512	0.00	0.00
ATOM	6071	O	VAL	X	403	41.919	30.056	40.212	0.00	0.00
ATOM	6072	N	VAL	X	404	43.496	28.467	39.977	0.00	0.00
ATOM	6073	H	VAL	X	404	44.235	27.998	40.480	0.00	0.00
ATOM	6074	CA	VAL	X	404	43.298	28.166	38.542	0.00	0.00
ATOM	6075	HA	VAL	X	404	43.381	29.014	37.862	0.00	0.00
ATOM	6076	CB	VAL	X	404	44.155	26.995	38.029	0.00	0.00
ATOM	6077	HB	VAL	X	404	43.634	26.177	38.528	0.00	0.00
ATOM	6078	CG1	VAL	X	404	44.063	26.791	36.562	0.00	0.00
ATOM	6079	HG11	VAL	X	404	44.591	25.870	36.315	0.00	0.00
ATOM	6080	HG12	VAL	X	404	43.033	26.539	36.311	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.251	27.707	36.002	0.00	0.00
ATOM	6082	CG2	VAL	X	404	45.631	26.954	38.469	0.00	0.00
ATOM	6083	HG21	VAL	X	404	45.715	27.067	39.550	0.00	0.00
ATOM	6084	HG22	VAL	X	404	46.010	25.947	38.296	0.00	0.00
ATOM	6085	HG23	VAL	X	404	46.239	27.751	38.040	0.00	0.00
ATOM	6086	C	VAL	X	404	41.848	27.736	38.424	0.00	0.00
ATOM	6087	O	VAL	X	404	41.190	28.067	37.459	0.00	0.00
ATOM	6088	N	CYX	X	405	41.295	27.059	39.459	0.00	0.00
ATOM	6089	H	CYX	X	405	41.838	26.827	40.278	0.00	0.00
ATOM	6090	CA	CYX	X	405	39.914	26.549	39.363	0.00	0.00
ATOM	6091	HA	CYX	X	405	39.838	26.284	38.309	0.00	0.00
ATOM	6092	CB	CYX	X	405	39.800	25.195	40.138	0.00	0.00
ATOM	6093	HB2	CYX	X	405	40.154	25.238	41.168	0.00	0.00
ATOM	6094	HB3	CYX	X	405	38.778	24.862	39.955	0.00	0.00
ATOM	6095	SG	CYX	X	405	40.868	23.977	39.372	0.00	0.00
ATOM	6096	C	CYX	X	405	38.830	27.576	39.660	0.00	0.00
ATOM	6097	O	CYX	X	405	37.771	27.543	39.036	0.00	0.00
ATOM	6098	N	PRO	X	406	38.983	28.470	40.693	0.00	0.00
ATOM	6099	CD	PRO	X	406	39.680	28.297	41.948	0.00	0.00
ATOM	6100	HD2	PRO	X	406	40.745	28.495	41.822	0.00	0.00
ATOM	6101	HD3	PRO	X	406	39.640	27.235	42.194	0.00	0.00
ATOM	6102	CG	PRO	X	406	39.035	29.236	42.959	0.00	0.00
ATOM	6103	HG2	PRO	X	406	39.753	29.743	43.604	0.00	0.00
ATOM	6104	HG3	PRO	X	406	38.299	28.612	43.465	0.00	0.00
ATOM	6105	CB	PRO	X	406	38.293	30.295	42.182	0.00	0.00
ATOM	6106	HB2	PRO	X	406	38.908	31.138	41.867	0.00	0.00
ATOM	6107	HB3	PRO	X	406	37.364	30.555	42.690	0.00	0.00
ATOM	6108	CA	PRO	X	406	38.003	29.572	40.874	0.00	0.00
ATOM	6109	HA	PRO	X	406	37.042	29.063	40.958	0.00	0.00
ATOM	6110	C	PRO	X	406	38.057	30.525	39.647	0.00	0.00
ATOM	6111	O	PRO	X	406	36.975	31.008	39.250	0.00	0.00
ATOM	6112	N	VAL	X	407	39.215	30.710	38.956	0.00	0.00
ATOM	6113	H	VAL	X	407	40.074	30.431	39.407	0.00	0.00
ATOM	6114	CA	VAL	X	407	39.273	31.347	37.631	0.00	0.00
ATOM	6115	HA	VAL	X	407	38.802	32.327	37.708	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.761	31.573	37.260	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.222	30.614	37.492	0.00	0.00
ATOM	6118	CG1	VAL	X	407	40.932	31.804	35.761	0.00	0.00
ATOM	6119	HG11	VAL	X	407	40.715	30.867	35.247	0.00	0.00
ATOM	6120	HG12	VAL	X	407	40.238	32.612	35.532	0.00	0.00
ATOM	6121	HG13	VAL	X	407	41.976	32.039	35.550	0.00	0.00
ATOM	6122	CG2	VAL	X	407	41.607	32.628	37.965	0.00	0.00
ATOM	6123	HG21	VAL	X	407	41.381	32.535	39.027	0.00	0.00
ATOM	6124	HG22	VAL	X	407	42.686	32.604	37.809	0.00	0.00
ATOM	6125	HG23	VAL	X	407	41.261	33.551	37.500	0.00	0.00
ATOM	6126	C	VAL	X	407	38.471	30.513	36.538	0.00	0.00
ATOM	6127	O	VAL	X	407	37.806	31.137	35.760	0.00	0.00
ATOM	6128	N	ALA	X	408	38.693	29.223	36.427	0.00	0.00
ATOM	6129	H	ALA	X	408	39.271	28.697	37.066	0.00	0.00
ATOM	6130	CA	ALA	X	408	38.142	28.398	35.374	0.00	0.00
ATOM	6131	HA	ALA	X	408	38.339	29.044	34.518	0.00	0.00

ATOM	6132	CB	ALA	X	408	38.838	27.000	35.324	0.00	0.00
ATOM	6133	HB1	ALA	X	408	38.554	26.432	36.210	0.00	0.00
ATOM	6134	HB2	ALA	X	408	38.509	26.485	34.422	0.00	0.00
ATOM	6135	HB3	ALA	X	408	39.912	27.114	35.470	0.00	0.00
ATOM	6136	C	ALA	X	408	36.531	28.345	35.522	0.00	0.00
ATOM	6137	O	ALA	X	408	35.822	28.637	34.572	0.00	0.00
ATOM	6138	N	GLN	X	409	36.085	28.188	36.752	0.00	0.00
ATOM	6139	H	GLN	X	409	36.757	27.986	37.479	0.00	0.00
ATOM	6140	CA	GLN	X	409	34.733	28.362	37.162	0.00	0.00
ATOM	6141	HA	GLN	X	409	34.116	27.682	36.575	0.00	0.00
ATOM	6142	CB	GLN	X	409	34.603	28.007	38.592	0.00	0.00
ATOM	6143	HB2	GLN	X	409	35.209	27.113	38.735	0.00	0.00
ATOM	6144	HB3	GLN	X	409	35.131	28.777	39.155	0.00	0.00
ATOM	6145	CG	GLN	X	409	33.110	27.901	38.981	0.00	0.00
ATOM	6146	HG2	GLN	X	409	32.488	28.750	38.697	0.00	0.00
ATOM	6147	HG3	GLN	X	409	32.763	26.991	38.491	0.00	0.00
ATOM	6148	CD	GLN	X	409	33.003	27.706	40.436	0.00	0.00
ATOM	6149	OE1	GLN	X	409	33.760	28.221	41.282	0.00	0.00
ATOM	6150	NE2	GLN	X	409	31.994	26.940	40.905	0.00	0.00
ATOM	6151	HE21	GLN	X	409	31.977	26.719	41.891	0.00	0.00
ATOM	6152	HE22	GLN	X	409	31.482	26.290	40.326	0.00	0.00
ATOM	6153	C	GLN	X	409	34.166	29.808	36.968	0.00	0.00
ATOM	6154	O	GLN	X	409	33.102	29.962	36.352	0.00	0.00
ATOM	6155	N	LEU	X	410	34.869	30.912	37.261	0.00	0.00
ATOM	6156	H	LEU	X	410	35.781	30.784	37.676	0.00	0.00
ATOM	6157	CA	LEU	X	410	34.413	32.316	37.087	0.00	0.00
ATOM	6158	HA	LEU	X	410	33.376	32.498	37.370	0.00	0.00
ATOM	6159	CB	LEU	X	410	35.394	33.301	37.834	0.00	0.00
ATOM	6160	HB2	LEU	X	410	35.036	33.230	38.861	0.00	0.00
ATOM	6161	HB3	LEU	X	410	36.415	32.924	37.772	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.380	34.820	37.459	0.00	0.00
ATOM	6163	HG	LEU	X	410	34.366	35.153	37.237	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.666	35.724	38.719	0.00	0.00
ATOM	6165	HD11	LEU	X	410	34.980	35.367	39.487	0.00	0.00
ATOM	6166	HD12	LEU	X	410	36.700	35.469	38.948	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.540	36.788	38.517	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.262	35.196	36.272	0.00	0.00
ATOM	6169	HD21	LEU	X	410	35.937	36.168	35.899	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.285	35.399	36.590	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.175	34.355	35.585	0.00	0.00
ATOM	6172	C	LEU	X	410	34.232	32.667	35.564	0.00	0.00
ATOM	6173	O	LEU	X	410	33.207	33.223	35.157	0.00	0.00
ATOM	6174	N	ALA	X	411	35.169	32.234	34.723	0.00	0.00
ATOM	6175	H	ALA	X	411	35.963	31.783	35.154	0.00	0.00
ATOM	6176	CA	ALA	X	411	35.143	32.544	33.308	0.00	0.00
ATOM	6177	HA	ALA	X	411	34.968	33.617	33.229	0.00	0.00
ATOM	6178	CB	ALA	X	411	36.473	32.052	32.851	0.00	0.00
ATOM	6179	HB1	ALA	X	411	37.247	32.431	33.517	0.00	0.00
ATOM	6180	HB2	ALA	X	411	36.476	30.963	32.807	0.00	0.00
ATOM	6181	HB3	ALA	X	411	36.685	32.289	31.808	0.00	0.00
ATOM	6182	C	ALA	X	411	34.018	31.839	32.560	0.00	0.00
ATOM	6183	O	ALA	X	411	33.405	32.374	31.727	0.00	0.00
ATOM	6184	N	GLY	X	412	33.692	30.614	32.996	0.00	0.00
ATOM	6185	H	GLY	X	412	34.265	30.154	33.689	0.00	0.00
ATOM	6186	CA	GLY	X	412	32.589	29.799	32.470	0.00	0.00
ATOM	6187	HA2	GLY	X	412	32.505	29.736	31.383	0.00	0.00
ATOM	6188	HA3	GLY	X	412	32.430	28.827	32.948	0.00	0.00
ATOM	6189	C	GLY	X	412	31.333	30.586	32.855	0.00	0.00
ATOM	6190	O	GLY	X	412	30.515	30.825	31.977	0.00	0.00
ATOM	6191	N	ARG	X	413	31.090	30.997	34.132	0.00	0.00
ATOM	6192	H	ARG	X	413	31.739	30.578	34.783	0.00	0.00
ATOM	6193	CA	ARG	X	413	29.856	31.637	34.678	0.00	0.00
ATOM	6194	HA	ARG	X	413	28.972	31.023	34.508	0.00	0.00
ATOM	6195	CB	ARG	X	413	30.084	31.834	36.189	0.00	0.00
ATOM	6196	HB2	ARG	X	413	31.056	32.305	36.337	0.00	0.00
ATOM	6197	HB3	ARG	X	413	29.350	32.572	36.513	0.00	0.00
ATOM	6198	CG	ARG	X	413	30.086	30.532	37.052	0.00	0.00
ATOM	6199	HG2	ARG	X	413	30.627	29.733	36.543	0.00	0.00
ATOM	6200	HG3	ARG	X	413	30.769	30.738	37.876	0.00	0.00
ATOM	6201	CD	ARG	X	413	28.751	30.089	37.618	0.00	0.00

ATOM	6202	HD2	ARG	X	413	28.250	30.936	38.087	0.00	0.00
ATOM	6203	HD3	ARG	X	413	28.108	29.707	36.826	0.00	0.00
ATOM	6204	NE	ARG	X	413	28.968	29.163	38.712	0.00	0.00
ATOM	6205	HE	ARG	X	413	28.802	29.500	39.649	0.00	0.00
ATOM	6206	CZ	ARG	X	413	29.069	27.851	38.539	0.00	0.00
ATOM	6207	NH1	ARG	X	413	29.159	27.264	37.374	0.00	0.00
ATOM	6208	HH11	ARG	X	413	28.912	27.731	36.514	0.00	0.00
ATOM	6209	HH12	ARG	X	413	29.259	26.262	37.290	0.00	0.00
ATOM	6210	NH2	ARG	X	413	29.139	27.118	39.621	0.00	0.00
ATOM	6211	HH21	ARG	X	413	29.011	27.439	40.570	0.00	0.00
ATOM	6212	HH22	ARG	X	413	29.197	26.110	39.575	0.00	0.00
ATOM	6213	C	ARG	X	413	29.652	32.938	33.982	0.00	0.00
ATOM	6214	O	ARG	X	413	28.570	33.212	33.370	0.00	0.00
ATOM	6215	N	LEU	X	414	30.663	33.777	33.858	0.00	0.00
ATOM	6216	H	LEU	X	414	31.513	33.527	34.342	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.564	35.049	33.066	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.685	35.571	33.443	0.00	0.00
ATOM	6219	CB	LEU	X	414	31.862	35.926	33.231	0.00	0.00
ATOM	6220	HB2	LEU	X	414	32.688	35.264	32.972	0.00	0.00
ATOM	6221	HB3	LEU	X	414	31.917	36.662	32.430	0.00	0.00
ATOM	6222	CG	LEU	X	414	32.077	36.574	34.563	0.00	0.00
ATOM	6223	HG	LEU	X	414	32.165	35.707	35.218	0.00	0.00
ATOM	6224	CD1	LEU	X	414	33.478	37.284	34.666	0.00	0.00
ATOM	6225	HD11	LEU	X	414	33.710	37.324	35.731	0.00	0.00
ATOM	6226	HD12	LEU	X	414	34.230	36.636	34.216	0.00	0.00
ATOM	6227	HD13	LEU	X	414	33.540	38.240	34.146	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.889	37.398	35.155	0.00	0.00
ATOM	6229	HD21	LEU	X	414	31.269	38.239	35.735	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.133	37.545	34.385	0.00	0.00
ATOM	6231	HD23	LEU	X	414	30.310	36.771	35.832	0.00	0.00
ATOM	6232	C	LEU	X	414	30.296	34.827	31.557	0.00	0.00
ATOM	6233	O	LEU	X	414	29.374	35.498	31.094	0.00	0.00
ATOM	6234	N	ALA	X	415	30.926	33.847	30.913	0.00	0.00
ATOM	6235	H	ALA	X	415	31.507	33.143	31.344	0.00	0.00
ATOM	6236	CA	ALA	X	415	30.514	33.504	29.523	0.00	0.00
ATOM	6237	HA	ALA	X	415	30.597	34.437	28.965	0.00	0.00
ATOM	6238	CB	ALA	X	415	31.585	32.550	28.970	0.00	0.00
ATOM	6239	HB1	ALA	X	415	31.397	32.520	27.897	0.00	0.00
ATOM	6240	HB2	ALA	X	415	32.622	32.825	29.163	0.00	0.00
ATOM	6241	HB3	ALA	X	415	31.442	31.513	29.272	0.00	0.00
ATOM	6242	C	ALA	X	415	29.041	33.011	29.324	0.00	0.00
ATOM	6243	O	ALA	X	415	28.440	33.242	28.233	0.00	0.00
ATOM	6244	N	ALA	X	416	28.496	32.328	30.349	0.00	0.00
ATOM	6245	H	ALA	X	416	29.119	32.159	31.126	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.140	31.707	30.445	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.035	31.149	29.515	0.00	0.00
ATOM	6248	CB	ALA	X	416	27.159	30.779	31.640	0.00	0.00
ATOM	6249	HB1	ALA	X	416	26.174	30.314	31.668	0.00	0.00
ATOM	6250	HB2	ALA	X	416	27.978	30.070	31.518	0.00	0.00
ATOM	6251	HB3	ALA	X	416	27.308	31.304	32.583	0.00	0.00
ATOM	6252	C	ALA	X	416	26.031	32.727	30.522	0.00	0.00
ATOM	6253	O	ALA	X	416	24.971	32.662	29.855	0.00	0.00
ATOM	6254	N	GLN	X	417	26.356	33.751	31.291	0.00	0.00
ATOM	6255	H	GLN	X	417	27.291	33.729	31.671	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.376	34.664	31.853	0.00	0.00
ATOM	6257	HA	GLN	X	417	24.396	34.205	31.722	0.00	0.00
ATOM	6258	CB	GLN	X	417	25.638	34.787	33.367	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.675	34.965	33.654	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.000	35.556	33.803	0.00	0.00
ATOM	6261	CG	GLN	X	417	25.242	33.530	34.140	0.00	0.00
ATOM	6262	HG2	GLN	X	417	24.166	33.626	34.285	0.00	0.00
ATOM	6263	HG3	GLN	X	417	25.384	32.649	33.514	0.00	0.00
ATOM	6264	CD	GLN	X	417	25.961	33.410	35.473	0.00	0.00
ATOM	6265	OE1	GLN	X	417	26.619	32.443	35.727	0.00	0.00
ATOM	6266	NE2	GLN	X	417	25.938	34.404	36.345	0.00	0.00
ATOM	6267	HE21	GLN	X	417	26.543	34.045	37.069	0.00	0.00
ATOM	6268	HE22	GLN	X	417	25.466	35.297	36.362	0.00	0.00
ATOM	6269	C	GLN	X	417	25.287	35.966	31.100	0.00	0.00
ATOM	6270	O	GLN	X	417	24.577	36.873	31.552	0.00	0.00
ATOM	6271	N	GLY	X	418	26.117	36.119	30.060	0.00	0.00

ATOM	6272	H	GLY	X	418	26.858	35.435	29.998	0.00	0.00
ATOM	6273	CA	GLY	X	418	25.968	37.139	29.018	0.00	0.00
ATOM	6274	HA2	GLY	X	418	25.627	36.633	28.105	0.00	0.00
ATOM	6275	HA3	GLY	X	418	25.372	37.988	29.363	0.00	0.00
ATOM	6276	C	GLY	X	418	27.245	37.797	28.585	0.00	0.00
ATOM	6277	O	GLY	X	418	27.178	38.695	27.770	0.00	0.00
ATOM	6278	N	ALA	X	419	28.408	37.409	29.104	0.00	0.00
ATOM	6279	H	ALA	X	419	28.412	36.720	29.843	0.00	0.00
ATOM	6280	CA	ALA	X	419	29.619	38.090	28.799	0.00	0.00
ATOM	6281	HA	ALA	X	419	29.455	39.147	28.590	0.00	0.00
ATOM	6282	CB	ALA	X	419	30.537	38.142	30.065	0.00	0.00
ATOM	6283	HB1	ALA	X	419	29.967	38.589	30.879	0.00	0.00
ATOM	6284	HB2	ALA	X	419	30.827	37.110	30.262	0.00	0.00
ATOM	6285	HB3	ALA	X	419	31.406	38.774	29.880	0.00	0.00
ATOM	6286	C	ALA	X	419	30.260	37.469	27.576	0.00	0.00
ATOM	6287	O	ALA	X	419	29.957	36.314	27.205	0.00	0.00
ATOM	6288	N	ARG	X	420	31.178	38.225	26.995	0.00	0.00
ATOM	6289	H	ARG	X	420	31.342	39.179	27.281	0.00	0.00
ATOM	6290	CA	ARG	X	420	32.301	37.629	26.210	0.00	0.00
ATOM	6291	HA	ARG	X	420	32.029	36.576	26.136	0.00	0.00
ATOM	6292	CB	ARG	X	420	32.383	38.347	24.818	0.00	0.00
ATOM	6293	HB2	ARG	X	420	32.380	39.427	24.962	0.00	0.00
ATOM	6294	HB3	ARG	X	420	33.366	38.129	24.399	0.00	0.00
ATOM	6295	CG	ARG	X	420	31.301	38.012	23.881	0.00	0.00
ATOM	6296	HG2	ARG	X	420	31.518	37.023	23.478	0.00	0.00
ATOM	6297	HG3	ARG	X	420	30.365	37.978	24.439	0.00	0.00
ATOM	6298	CD	ARG	X	420	31.110	38.868	22.589	0.00	0.00
ATOM	6299	HD2	ARG	X	420	30.423	38.373	21.903	0.00	0.00
ATOM	6300	HD3	ARG	X	420	30.705	39.817	22.940	0.00	0.00
ATOM	6301	NE	ARG	X	420	32.381	39.089	21.778	0.00	0.00
ATOM	6302	HE	ARG	X	420	32.686	38.318	21.202	0.00	0.00
ATOM	6303	CZ	ARG	X	420	33.167	40.179	21.802	0.00	0.00
ATOM	6304	NH1	ARG	X	420	32.990	41.096	22.761	0.00	0.00
ATOM	6305	HH11	ARG	X	420	32.098	41.077	23.233	0.00	0.00
ATOM	6306	HH12	ARG	X	420	33.552	41.935	22.749	0.00	0.00
ATOM	6307	NH2	ARG	X	420	34.162	40.274	20.925	0.00	0.00
ATOM	6308	HH21	ARG	X	420	34.387	39.620	20.189	0.00	0.00
ATOM	6309	HH22	ARG	X	420	34.815	40.985	21.223	0.00	0.00
ATOM	6310	C	ARG	X	420	33.670	37.676	26.955	0.00	0.00
ATOM	6311	O	ARG	X	420	33.972	38.630	27.683	0.00	0.00
ATOM	6312	N	VAL	X	421	34.453	36.622	26.798	0.00	0.00
ATOM	6313	H	VAL	X	421	34.094	35.929	26.157	0.00	0.00
ATOM	6314	CA	VAL	X	421	35.563	36.256	27.770	0.00	0.00
ATOM	6315	HA	VAL	X	421	35.921	37.162	28.260	0.00	0.00
ATOM	6316	CB	VAL	X	421	35.121	35.138	28.764	0.00	0.00
ATOM	6317	HB	VAL	X	421	34.744	34.246	28.263	0.00	0.00
ATOM	6318	CG1	VAL	X	421	36.185	34.795	29.845	0.00	0.00
ATOM	6319	HG11	VAL	X	421	36.964	34.240	29.323	0.00	0.00
ATOM	6320	HG12	VAL	X	421	36.708	35.699	30.160	0.00	0.00
ATOM	6321	HG13	VAL	X	421	35.817	34.149	30.642	0.00	0.00
ATOM	6322	CG2	VAL	X	421	34.003	35.646	29.677	0.00	0.00
ATOM	6323	HG21	VAL	X	421	33.660	34.738	30.174	0.00	0.00
ATOM	6324	HG22	VAL	X	421	34.454	36.369	30.356	0.00	0.00
ATOM	6325	HG23	VAL	X	421	33.204	35.993	29.022	0.00	0.00
ATOM	6326	C	VAL	X	421	36.836	35.678	26.990	0.00	0.00
ATOM	6327	O	VAL	X	421	36.549	34.973	25.970	0.00	0.00
ATOM	6328	N	TYR	X	422	38.057	35.828	27.480	0.00	0.00
ATOM	6329	H	TYR	X	422	38.148	36.434	28.283	0.00	0.00
ATOM	6330	CA	TYR	X	422	39.296	35.453	26.849	0.00	0.00
ATOM	6331	HA	TYR	X	422	39.197	34.560	26.232	0.00	0.00
ATOM	6332	CB	TYR	X	422	39.808	36.580	25.978	0.00	0.00
ATOM	6333	HB2	TYR	X	422	39.921	37.478	26.585	0.00	0.00
ATOM	6334	HB3	TYR	X	422	40.831	36.371	25.666	0.00	0.00
ATOM	6335	CG	TYR	X	422	39.026	36.902	24.750	0.00	0.00
ATOM	6336	CD1	TYR	X	422	39.229	36.165	23.557	0.00	0.00
ATOM	6337	HD1	TYR	X	422	39.943	35.355	23.540	0.00	0.00
ATOM	6338	CE1	TYR	X	422	38.423	36.377	22.448	0.00	0.00
ATOM	6339	HE1	TYR	X	422	38.519	35.733	21.587	0.00	0.00
ATOM	6340	CZ	TYR	X	422	37.409	37.369	22.494	0.00	0.00
ATOM	6341	OH	TYR	X	422	36.605	37.616	21.380	0.00	0.00

ATOM	6342	HH	TYR	X	422	36.646	36.951	20.689	0.00	0.00
ATOM	6343	CE2	TYR	X	422	37.184	38.139	23.686	0.00	0.00
ATOM	6344	HE2	TYR	X	422	36.487	38.960	23.764	0.00	0.00
ATOM	6345	CD2	TYR	X	422	38.041	37.939	24.792	0.00	0.00
ATOM	6346	HD2	TYR	X	422	37.791	38.517	25.669	0.00	0.00
ATOM	6347	C	TYR	X	422	40.301	35.023	27.878	0.00	0.00
ATOM	6348	O	TYR	X	422	40.597	35.838	28.747	0.00	0.00
ATOM	6349	N	ALA	X	423	40.746	33.779	27.876	0.00	0.00
ATOM	6350	H	ALA	X	423	40.520	33.248	27.047	0.00	0.00
ATOM	6351	CA	ALA	X	423	41.627	33.121	28.829	0.00	0.00
ATOM	6352	HA	ALA	X	423	41.704	33.831	29.652	0.00	0.00
ATOM	6353	CB	ALA	X	423	40.928	31.780	29.259	0.00	0.00
ATOM	6354	HB1	ALA	X	423	40.907	31.035	28.463	0.00	0.00
ATOM	6355	HB2	ALA	X	423	41.598	31.322	29.986	0.00	0.00
ATOM	6356	HB3	ALA	X	423	39.929	31.936	29.668	0.00	0.00
ATOM	6357	C	ALA	X	423	43.066	32.913	28.339	0.00	0.00
ATOM	6358	O	ALA	X	423	43.230	32.450	27.199	0.00	0.00
ATOM	6359	N	TYR	X	424	44.093	33.003	29.184	0.00	0.00
ATOM	6360	H	TYR	X	424	43.843	33.447	30.056	0.00	0.00
ATOM	6361	CA	TYR	X	424	45.462	32.616	28.984	0.00	0.00
ATOM	6362	HA	TYR	X	424	45.434	32.037	28.060	0.00	0.00
ATOM	6363	CB	TYR	X	424	46.363	33.802	28.871	0.00	0.00
ATOM	6364	HB2	TYR	X	424	47.313	33.348	28.588	0.00	0.00
ATOM	6365	HB3	TYR	X	424	45.976	34.349	28.011	0.00	0.00
ATOM	6366	CG	TYR	X	424	46.507	34.594	30.175	0.00	0.00
ATOM	6367	CD1	TYR	X	424	47.679	34.294	30.984	0.00	0.00
ATOM	6368	HD1	TYR	X	424	48.476	33.608	30.735	0.00	0.00
ATOM	6369	CE1	TYR	X	424	47.781	35.139	32.195	0.00	0.00
ATOM	6370	HE1	TYR	X	424	48.654	35.056	32.825	0.00	0.00
ATOM	6371	CZ	TYR	X	424	46.782	35.943	32.594	0.00	0.00
ATOM	6372	OH	TYR	X	424	46.729	36.548	33.817	0.00	0.00
ATOM	6373	HH	TYR	X	424	47.592	36.471	34.230	0.00	0.00
ATOM	6374	CE2	TYR	X	424	45.576	36.036	31.822	0.00	0.00
ATOM	6375	HE2	TYR	X	424	44.737	36.501	32.319	0.00	0.00
ATOM	6376	CD2	TYR	X	424	45.452	35.394	30.621	0.00	0.00
ATOM	6377	HD2	TYR	X	424	44.515	35.494	30.094	0.00	0.00
ATOM	6378	C	TYR	X	424	45.968	31.621	30.118	0.00	0.00
ATOM	6379	O	TYR	X	424	45.452	31.469	31.250	0.00	0.00
ATOM	6380	N	VAL	X	425	47.074	30.938	29.769	0.00	0.00
ATOM	6381	H	VAL	X	425	47.353	31.033	28.803	0.00	0.00
ATOM	6382	CA	VAL	X	425	47.961	30.313	30.730	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.831	30.635	31.764	0.00	0.00
ATOM	6384	CB	VAL	X	425	47.935	28.757	30.837	0.00	0.00
ATOM	6385	HB	VAL	X	425	48.037	28.366	29.825	0.00	0.00
ATOM	6386	CG1	VAL	X	425	48.867	28.075	31.819	0.00	0.00
ATOM	6387	HG11	VAL	X	425	49.820	28.594	31.716	0.00	0.00
ATOM	6388	HG12	VAL	X	425	48.564	28.020	32.864	0.00	0.00
ATOM	6389	HG13	VAL	X	425	48.958	27.057	31.441	0.00	0.00
ATOM	6390	CG2	VAL	X	425	46.555	28.434	31.372	0.00	0.00
ATOM	6391	HG21	VAL	X	425	46.443	27.354	31.468	0.00	0.00
ATOM	6392	HG22	VAL	X	425	46.445	28.818	32.387	0.00	0.00
ATOM	6393	HG23	VAL	X	425	45.792	28.783	30.676	0.00	0.00
ATOM	6394	C	VAL	X	425	49.293	30.745	30.187	0.00	0.00
ATOM	6395	O	VAL	X	425	49.651	30.477	29.054	0.00	0.00
ATOM	6396	N	PHE	X	426	50.024	31.499	31.024	0.00	0.00
ATOM	6397	H	PHE	X	426	49.578	31.677	31.912	0.00	0.00
ATOM	6398	CA	PHE	X	426	51.329	32.045	30.715	0.00	0.00
ATOM	6399	HA	PHE	X	426	51.492	32.292	29.666	0.00	0.00
ATOM	6400	CB	PHE	X	426	51.465	33.383	31.520	0.00	0.00
ATOM	6401	HB2	PHE	X	426	50.763	34.103	31.098	0.00	0.00
ATOM	6402	HB3	PHE	X	426	51.194	33.167	32.553	0.00	0.00
ATOM	6403	CG	PHE	X	426	52.860	33.984	31.479	0.00	0.00
ATOM	6404	CD1	PHE	X	426	53.234	34.781	30.371	0.00	0.00
ATOM	6405	HD1	PHE	X	426	52.536	34.830	29.549	0.00	0.00
ATOM	6406	CE1	PHE	X	426	54.538	35.236	30.324	0.00	0.00
ATOM	6407	HE1	PHE	X	426	54.835	35.892	29.519	0.00	0.00
ATOM	6408	CZ	PHE	X	426	55.514	34.966	31.271	0.00	0.00
ATOM	6409	HZ	PHE	X	426	56.541	35.236	31.072	0.00	0.00
ATOM	6410	CE2	PHE	X	426	55.114	34.319	32.428	0.00	0.00
ATOM	6411	HE2	PHE	X	426	55.790	34.223	33.265	0.00	0.00

ATOM	6412	CD2	PHE	X	426	53.820	33.743	32.472	0.00	0.00
ATOM	6413	HD2	PHE	X	426	53.453	33.215	33.340	0.00	0.00
ATOM	6414	C	PHE	X	426	52.469	31.082	31.194	0.00	0.00
ATOM	6415	O	PHE	X	426	52.520	30.592	32.266	0.00	0.00
ATOM	6416	N	GLU	X	427	53.482	30.929	30.277	0.00	0.00
ATOM	6417	H	GLU	X	427	53.382	31.479	29.435	0.00	0.00
ATOM	6418	CA	GLU	X	427	54.436	29.782	30.337	0.00	0.00
ATOM	6419	HA	GLU	X	427	54.463	29.345	31.335	0.00	0.00
ATOM	6420	CB	GLU	X	427	54.089	28.738	29.368	0.00	0.00
ATOM	6421	HB2	GLU	X	427	54.406	29.052	28.373	0.00	0.00
ATOM	6422	HB3	GLU	X	427	54.801	27.947	29.603	0.00	0.00
ATOM	6423	CG	GLU	X	427	52.720	28.031	29.471	0.00	0.00
ATOM	6424	HG2	GLU	X	427	52.571	27.868	30.539	0.00	0.00
ATOM	6425	HG3	GLU	X	427	52.004	28.752	29.077	0.00	0.00
ATOM	6426	CD	GLU	X	427	52.686	26.734	28.690	0.00	0.00
ATOM	6427	OE1	GLU	X	427	53.023	26.612	27.511	0.00	0.00
ATOM	6428	OE2	GLU	X	427	52.324	25.727	29.333	0.00	0.00
ATOM	6429	C	GLU	X	427	55.921	30.096	30.147	0.00	0.00
ATOM	6430	O	GLU	X	427	56.751	29.186	30.180	0.00	0.00
ATOM	6431	N	HIE	X	428	56.434	31.347	30.078	0.00	0.00
ATOM	6432	H	HIE	X	428	55.791	32.125	30.105	0.00	0.00
ATOM	6433	CA	HIE	X	428	57.835	31.672	29.964	0.00	0.00
ATOM	6434	HA	HIE	X	428	58.396	30.862	29.497	0.00	0.00
ATOM	6435	CB	HIE	X	428	57.962	32.912	29.067	0.00	0.00
ATOM	6436	HB2	HIE	X	428	57.534	32.639	28.102	0.00	0.00
ATOM	6437	HB3	HIE	X	428	57.279	33.670	29.449	0.00	0.00
ATOM	6438	CG	HIE	X	428	59.308	33.422	28.917	0.00	0.00
ATOM	6439	ND1	HIE	X	428	60.372	32.671	28.393	0.00	0.00
ATOM	6440	CE1	HIE	X	428	61.421	33.462	28.484	0.00	0.00
ATOM	6441	HE1	HIE	X	428	62.475	33.286	28.330	0.00	0.00
ATOM	6442	NE2	HIE	X	428	61.114	34.643	29.061	0.00	0.00
ATOM	6443	HE2	HIE	X	428	61.799	35.340	29.314	0.00	0.00
ATOM	6444	CD2	HIE	X	428	59.761	34.649	29.317	0.00	0.00
ATOM	6445	HD2	HIE	X	428	59.194	35.337	29.927	0.00	0.00
ATOM	6446	C	HIE	X	428	58.459	32.088	31.347	0.00	0.00
ATOM	6447	O	HIE	X	428	58.041	33.098	31.857	0.00	0.00
ATOM	6448	N	ARG	X	429	59.614	31.557	31.786	0.00	0.00
ATOM	6449	H	ARG	X	429	60.059	30.890	31.172	0.00	0.00
ATOM	6450	CA	ARG	X	429	60.475	32.042	32.819	0.00	0.00
ATOM	6451	HA	ARG	X	429	59.954	32.540	33.637	0.00	0.00
ATOM	6452	CB	ARG	X	429	61.205	30.861	33.548	0.00	0.00
ATOM	6453	HB2	ARG	X	429	60.440	30.258	34.037	0.00	0.00
ATOM	6454	HB3	ARG	X	429	61.767	30.277	32.820	0.00	0.00
ATOM	6455	CG	ARG	X	429	62.185	31.349	34.600	0.00	0.00
ATOM	6456	HG2	ARG	X	429	63.049	31.565	33.972	0.00	0.00
ATOM	6457	HG3	ARG	X	429	61.792	32.266	35.037	0.00	0.00
ATOM	6458	CD	ARG	X	429	62.677	30.211	35.541	0.00	0.00
ATOM	6459	HD2	ARG	X	429	61.872	29.898	36.206	0.00	0.00
ATOM	6460	HD3	ARG	X	429	62.997	29.365	34.932	0.00	0.00
ATOM	6461	NE	ARG	X	429	63.822	30.471	36.495	0.00	0.00
ATOM	6462	HE	ARG	X	429	63.538	30.628	37.452	0.00	0.00
ATOM	6463	CZ	ARG	X	429	65.148	30.502	36.288	0.00	0.00
ATOM	6464	NH1	ARG	X	429	65.674	30.098	35.127	0.00	0.00
ATOM	6465	HH11	ARG	X	429	65.104	29.782	34.355	0.00	0.00
ATOM	6466	HH12	ARG	X	429	66.680	30.078	35.040	0.00	0.00
ATOM	6467	NH2	ARG	X	429	66.030	30.871	37.205	0.00	0.00
ATOM	6468	HH21	ARG	X	429	65.757	31.444	37.990	0.00	0.00
ATOM	6469	HH22	ARG	X	429	67.011	30.639	37.140	0.00	0.00
ATOM	6470	C	ARG	X	429	61.573	32.997	32.245	0.00	0.00
ATOM	6471	O	ARG	X	429	62.423	32.591	31.450	0.00	0.00
ATOM	6472	N	ALA	X	430	61.632	34.272	32.600	0.00	0.00
ATOM	6473	H	ALA	X	430	60.883	34.642	33.167	0.00	0.00
ATOM	6474	CA	ALA	X	430	62.604	35.162	31.939	0.00	0.00
ATOM	6475	HA	ALA	X	430	62.695	34.974	30.869	0.00	0.00
ATOM	6476	CB	ALA	X	430	61.913	36.534	32.113	0.00	0.00
ATOM	6477	HB1	ALA	X	430	61.749	36.778	33.163	0.00	0.00
ATOM	6478	HB2	ALA	X	430	62.438	37.275	31.511	0.00	0.00
ATOM	6479	HB3	ALA	X	430	60.935	36.422	31.645	0.00	0.00
ATOM	6480	C	ALA	X	430	64.022	35.251	32.544	0.00	0.00
ATOM	6481	O	ALA	X	430	64.334	34.789	33.608	0.00	0.00

ATOM	6482	N	SER	X	431	64.945	35.834	31.726	0.00	0.00
ATOM	6483	H	SER	X	431	64.581	36.167	30.845	0.00	0.00
ATOM	6484	CA	SER	X	431	66.350	36.092	32.134	0.00	0.00
ATOM	6485	HA	SER	X	431	66.912	35.173	32.304	0.00	0.00
ATOM	6486	CB	SER	X	431	67.016	36.840	30.939	0.00	0.00
ATOM	6487	HB2	SER	X	431	68.056	37.063	31.178	0.00	0.00
ATOM	6488	HB3	SER	X	431	67.058	36.187	30.067	0.00	0.00
ATOM	6489	OG	SER	X	431	66.515	38.099	30.511	0.00	0.00
ATOM	6490	HG	SER	X	431	65.925	37.933	29.772	0.00	0.00
ATOM	6491	C	SER	X	431	66.431	36.930	33.394	0.00	0.00
ATOM	6492	O	SER	X	431	67.446	36.776	34.091	0.00	0.00
ATOM	6493	N	THR	X	432	65.452	37.756	33.746	0.00	0.00
ATOM	6494	H	THR	X	432	64.755	38.038	33.072	0.00	0.00
ATOM	6495	CA	THR	X	432	65.350	38.634	34.883	0.00	0.00
ATOM	6496	HA	THR	X	432	66.295	38.974	35.307	0.00	0.00
ATOM	6497	CB	THR	X	432	64.452	39.832	34.577	0.00	0.00
ATOM	6498	HB	THR	X	432	63.430	39.456	34.640	0.00	0.00
ATOM	6499	CG2	THR	X	432	64.652	40.920	35.644	0.00	0.00
ATOM	6500	HG21	THR	X	432	63.798	41.597	35.669	0.00	0.00
ATOM	6501	HG22	THR	X	432	64.697	40.471	36.636	0.00	0.00
ATOM	6502	HG23	THR	X	432	65.578	41.465	35.464	0.00	0.00
ATOM	6503	OG1	THR	X	432	64.808	40.368	33.347	0.00	0.00
ATOM	6504	HG1	THR	X	432	64.024	40.811	33.015	0.00	0.00
ATOM	6505	C	THR	X	432	64.734	37.844	36.097	0.00	0.00
ATOM	6506	O	THR	X	432	64.949	38.171	37.203	0.00	0.00
ATOM	6507	N	LEU	X	433	64.050	36.760	35.888	0.00	0.00
ATOM	6508	H	LEU	X	433	64.178	36.363	34.968	0.00	0.00
ATOM	6509	CA	LEU	X	433	63.203	36.041	36.908	0.00	0.00
ATOM	6510	HA	LEU	X	433	62.672	36.820	37.456	0.00	0.00
ATOM	6511	CB	LEU	X	433	62.050	35.217	36.269	0.00	0.00
ATOM	6512	HB2	LEU	X	433	61.685	35.775	35.406	0.00	0.00
ATOM	6513	HB3	LEU	X	433	62.403	34.288	35.821	0.00	0.00
ATOM	6514	CG	LEU	X	433	60.782	34.984	37.135	0.00	0.00
ATOM	6515	HG	LEU	X	433	60.351	35.937	37.440	0.00	0.00
ATOM	6516	CD1	LEU	X	433	59.695	34.275	36.391	0.00	0.00
ATOM	6517	HD11	LEU	X	433	58.833	33.995	36.997	0.00	0.00
ATOM	6518	HD12	LEU	X	433	59.289	34.883	35.583	0.00	0.00
ATOM	6519	HD13	LEU	X	433	60.040	33.327	35.977	0.00	0.00
ATOM	6520	CD2	LEU	X	433	61.071	34.201	38.439	0.00	0.00
ATOM	6521	HD21	LEU	X	433	60.167	33.913	38.975	0.00	0.00
ATOM	6522	HD22	LEU	X	433	61.624	33.286	38.228	0.00	0.00
ATOM	6523	HD23	LEU	X	433	61.592	34.925	39.065	0.00	0.00
ATOM	6524	C	LEU	X	433	64.061	35.199	37.897	0.00	0.00
ATOM	6525	O	LEU	X	433	64.548	34.133	37.613	0.00	0.00
ATOM	6526	N	SER	X	434	64.335	35.806	39.087	0.00	0.00
ATOM	6527	H	SER	X	434	64.202	36.807	39.090	0.00	0.00
ATOM	6528	CA	SER	X	434	65.290	35.261	40.107	0.00	0.00
ATOM	6529	HA	SER	X	434	66.194	34.969	39.572	0.00	0.00
ATOM	6530	CB	SER	X	434	65.625	36.318	41.113	0.00	0.00
ATOM	6531	HB2	SER	X	434	66.272	35.881	41.873	0.00	0.00
ATOM	6532	HB3	SER	X	434	66.160	37.052	40.511	0.00	0.00
ATOM	6533	OG	SER	X	434	64.440	36.810	41.649	0.00	0.00
ATOM	6534	HG	SER	X	434	63.999	37.431	41.064	0.00	0.00
ATOM	6535	C	SER	X	434	64.902	33.928	40.835	0.00	0.00
ATOM	6536	O	SER	X	434	65.778	33.271	41.378	0.00	0.00
ATOM	6537	N	TRP	X	435	63.616	33.485	40.763	0.00	0.00
ATOM	6538	H	TRP	X	435	62.893	34.138	40.499	0.00	0.00
ATOM	6539	CA	TRP	X	435	63.314	32.220	41.531	0.00	0.00
ATOM	6540	HA	TRP	X	435	63.771	32.370	42.509	0.00	0.00
ATOM	6541	CB	TRP	X	435	61.792	32.067	41.798	0.00	0.00
ATOM	6542	HB2	TRP	X	435	61.217	32.017	40.873	0.00	0.00
ATOM	6543	HB3	TRP	X	435	61.631	31.084	42.240	0.00	0.00
ATOM	6544	CG	TRP	X	435	61.156	33.104	42.627	0.00	0.00
ATOM	6545	CD1	TRP	X	435	60.711	34.319	42.207	0.00	0.00
ATOM	6546	HD1	TRP	X	435	60.565	34.616	41.178	0.00	0.00
ATOM	6547	NE1	TRP	X	435	60.284	35.002	43.304	0.00	0.00
ATOM	6548	HE1	TRP	X	435	59.968	35.959	43.238	0.00	0.00
ATOM	6549	CE2	TRP	X	435	60.479	34.376	44.494	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	60.152	34.652	45.823	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	59.510	35.481	46.082	0.00	0.00

ATOM	6552	CH2	TRP	X	435	60.373	33.641	46.810	0.00	0.00
ATOM	6553	HH2	TRP	X	435	60.053	33.847	47.820	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	61.136	32.504	46.420	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	61.502	31.810	47.163	0.00	0.00
ATOM	6556	CE3	TRP	X	435	61.519	32.285	45.097	0.00	0.00
ATOM	6557	HE3	TRP	X	435	61.955	31.363	44.742	0.00	0.00
ATOM	6558	CD2	TRP	X	435	61.136	33.142	44.107	0.00	0.00
ATOM	6559	C	TRP	X	435	63.958	31.047	40.737	0.00	0.00
ATOM	6560	O	TRP	X	435	63.965	31.085	39.522	0.00	0.00
ATOM	6561	N	PRO	X	436	64.556	30.092	41.417	0.00	0.00
ATOM	6562	CD	PRO	X	436	64.565	30.011	42.886	0.00	0.00
ATOM	6563	HD2	PRO	X	436	63.528	29.833	43.171	0.00	0.00
ATOM	6564	HD3	PRO	X	436	64.871	30.980	43.280	0.00	0.00
ATOM	6565	CG	PRO	X	436	65.486	28.848	43.272	0.00	0.00
ATOM	6566	HG2	PRO	X	436	65.240	28.358	44.214	0.00	0.00
ATOM	6567	HG3	PRO	X	436	66.486	29.282	43.287	0.00	0.00
ATOM	6568	CB	PRO	X	436	65.371	27.918	42.098	0.00	0.00
ATOM	6569	HB2	PRO	X	436	64.436	27.366	42.198	0.00	0.00
ATOM	6570	HB3	PRO	X	436	66.244	27.266	42.124	0.00	0.00
ATOM	6571	CA	PRO	X	436	65.307	28.893	40.927	0.00	0.00
ATOM	6572	HA	PRO	X	436	66.301	29.215	40.617	0.00	0.00
ATOM	6573	C	PRO	X	436	64.521	28.257	39.769	0.00	0.00
ATOM	6574	O	PRO	X	436	63.274	28.265	39.756	0.00	0.00
ATOM	6575	N	LEU	X	437	65.246	27.820	38.657	0.00	0.00
ATOM	6576	H	LEU	X	437	66.249	27.714	38.707	0.00	0.00
ATOM	6577	CA	LEU	X	437	64.783	27.179	37.419	0.00	0.00
ATOM	6578	HA	LEU	X	437	64.381	27.986	36.806	0.00	0.00
ATOM	6579	CB	LEU	X	437	66.018	26.561	36.771	0.00	0.00
ATOM	6580	HB2	LEU	X	437	66.581	27.456	36.509	0.00	0.00
ATOM	6581	HB3	LEU	X	437	66.658	25.940	37.397	0.00	0.00
ATOM	6582	CG	LEU	X	437	65.843	25.659	35.480	0.00	0.00
ATOM	6583	HG	LEU	X	437	65.226	24.779	35.659	0.00	0.00
ATOM	6584	CD1	LEU	X	437	65.296	26.409	34.323	0.00	0.00
ATOM	6585	HD11	LEU	X	437	64.270	26.716	34.525	0.00	0.00
ATOM	6586	HD12	LEU	X	437	65.935	27.270	34.129	0.00	0.00
ATOM	6587	HD13	LEU	X	437	65.266	25.877	33.372	0.00	0.00
ATOM	6588	CD2	LEU	X	437	67.249	25.187	35.086	0.00	0.00
ATOM	6589	HD21	LEU	X	437	67.329	24.540	34.212	0.00	0.00
ATOM	6590	HD22	LEU	X	437	68.026	25.942	34.969	0.00	0.00
ATOM	6591	HD23	LEU	X	437	67.739	24.627	35.882	0.00	0.00
ATOM	6592	C	LEU	X	437	63.659	26.113	37.628	0.00	0.00
ATOM	6593	O	LEU	X	437	62.755	26.053	36.784	0.00	0.00
ATOM	6594	N	TRP	X	438	63.766	25.358	38.734	0.00	0.00
ATOM	6595	H	TRP	X	438	64.578	25.480	39.323	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.799	24.295	39.074	0.00	0.00
ATOM	6597	HA	TRP	X	438	62.843	23.513	38.316	0.00	0.00
ATOM	6598	CB	TRP	X	438	63.247	23.556	40.321	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.723	22.602	40.273	0.00	0.00
ATOM	6600	HB3	TRP	X	438	64.320	23.385	40.234	0.00	0.00
ATOM	6601	CG	TRP	X	438	62.985	24.063	41.778	0.00	0.00
ATOM	6602	CD1	TRP	X	438	63.943	24.366	42.633	0.00	0.00
ATOM	6603	HD1	TRP	X	438	64.974	24.189	42.367	0.00	0.00
ATOM	6604	NE1	TRP	X	438	63.482	24.793	43.836	0.00	0.00
ATOM	6605	HE1	TRP	X	438	64.131	25.102	44.544	0.00	0.00
ATOM	6606	CE2	TRP	X	438	62.109	24.606	43.882	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	61.118	24.808	44.858	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	61.401	25.165	45.836	0.00	0.00
ATOM	6609	CH2	TRP	X	438	59.748	24.506	44.515	0.00	0.00
ATOM	6610	HH2	TRP	X	438	58.993	24.623	45.279	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	59.416	23.975	43.272	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	58.403	23.652	43.080	0.00	0.00
ATOM	6613	CE3	TRP	X	438	60.370	23.842	42.311	0.00	0.00
ATOM	6614	HE3	TRP	X	438	60.085	23.322	41.408	0.00	0.00
ATOM	6615	CD2	TRP	X	438	61.741	24.222	42.563	0.00	0.00
ATOM	6616	C	TRP	X	438	61.313	24.714	39.166	0.00	0.00
ATOM	6617	O	TRP	X	438	60.420	23.943	38.913	0.00	0.00
ATOM	6618	N	MET	X	439	61.096	25.966	39.603	0.00	0.00
ATOM	6619	H	MET	X	439	61.904	26.545	39.784	0.00	0.00
ATOM	6620	CA	MET	X	439	59.808	26.387	39.992	0.00	0.00
ATOM	6621	HA	MET	X	439	59.238	25.622	40.519	0.00	0.00

ATOM	6622	CB	MET	X	439	59.987	27.747	40.790	0.00	0.00
ATOM	6623	HB2	MET	X	439	60.898	28.253	40.470	0.00	0.00
ATOM	6624	HB3	MET	X	439	59.047	28.248	40.557	0.00	0.00
ATOM	6625	CG	MET	X	439	60.255	27.399	42.228	0.00	0.00
ATOM	6626	HG2	MET	X	439	59.428	26.889	42.722	0.00	0.00
ATOM	6627	HG3	MET	X	439	61.169	26.812	42.317	0.00	0.00
ATOM	6628	SD	MET	X	439	60.557	28.775	43.357	0.00	0.00
ATOM	6629	CE	MET	X	439	58.871	29.374	43.485	0.00	0.00
ATOM	6630	HE1	MET	X	439	58.203	28.683	44.001	0.00	0.00
ATOM	6631	HE2	MET	X	439	58.867	30.259	44.121	0.00	0.00
ATOM	6632	HE3	MET	X	439	58.561	29.541	42.453	0.00	0.00
ATOM	6633	C	MET	X	439	58.939	26.584	38.725	0.00	0.00
ATOM	6634	O	MET	X	439	57.745	26.638	38.829	0.00	0.00
ATOM	6635	N	GLY	X	440	59.508	26.731	37.521	0.00	0.00
ATOM	6636	H	GLY	X	440	60.507	26.581	37.539	0.00	0.00
ATOM	6637	CA	GLY	X	440	58.788	27.079	36.359	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.283	27.067	35.355	0.00	0.00
ATOM	6639	HA3	GLY	X	440	57.831	26.564	36.310	0.00	0.00
ATOM	6640	C	GLY	X	440	58.499	28.551	36.513	0.00	0.00
ATOM	6641	O	GLY	X	440	59.377	29.406	36.477	0.00	0.00
ATOM	6642	N	VAL	X	441	57.194	28.868	36.684	0.00	0.00
ATOM	6643	H	VAL	X	441	56.536	28.103	36.691	0.00	0.00
ATOM	6644	CA	VAL	X	441	56.668	30.206	36.653	0.00	0.00
ATOM	6645	HA	VAL	X	441	57.514	30.888	36.580	0.00	0.00
ATOM	6646	CB	VAL	X	441	55.781	30.533	35.336	0.00	0.00
ATOM	6647	HB	VAL	X	441	54.781	30.136	35.511	0.00	0.00
ATOM	6648	CG1	VAL	X	441	55.727	32.016	35.169	0.00	0.00
ATOM	6649	HG11	VAL	X	441	55.359	32.517	36.064	0.00	0.00
ATOM	6650	HG12	VAL	X	441	56.694	32.494	35.014	0.00	0.00
ATOM	6651	HG13	VAL	X	441	55.136	32.314	34.303	0.00	0.00
ATOM	6652	CG2	VAL	X	441	56.282	29.872	33.956	0.00	0.00
ATOM	6653	HG21	VAL	X	441	56.490	28.806	34.050	0.00	0.00
ATOM	6654	HG22	VAL	X	441	55.531	29.947	33.170	0.00	0.00
ATOM	6655	HG23	VAL	X	441	57.187	30.407	33.668	0.00	0.00
ATOM	6656	C	VAL	X	441	55.857	30.473	37.931	0.00	0.00
ATOM	6657	O	VAL	X	441	54.732	29.961	38.059	0.00	0.00
ATOM	6658	N	PRO	X	442	56.369	31.247	38.880	0.00	0.00
ATOM	6659	CD	PRO	X	442	57.701	31.804	38.871	0.00	0.00
ATOM	6660	HD2	PRO	X	442	57.722	32.457	37.998	0.00	0.00
ATOM	6661	HD3	PRO	X	442	58.432	30.996	38.845	0.00	0.00
ATOM	6662	CG	PRO	X	442	57.930	32.565	40.219	0.00	0.00
ATOM	6663	HG2	PRO	X	442	57.694	33.627	40.163	0.00	0.00
ATOM	6664	HG3	PRO	X	442	58.967	32.435	40.527	0.00	0.00
ATOM	6665	CB	PRO	X	442	56.939	31.814	41.081	0.00	0.00
ATOM	6666	HB2	PRO	X	442	56.672	32.323	42.007	0.00	0.00
ATOM	6667	HB3	PRO	X	442	57.385	30.858	41.353	0.00	0.00
ATOM	6668	CA	PRO	X	442	55.810	31.508	40.184	0.00	0.00
ATOM	6669	HA	PRO	X	442	55.339	30.588	40.528	0.00	0.00
ATOM	6670	C	PRO	X	442	54.665	32.585	40.105	0.00	0.00
ATOM	6671	O	PRO	X	442	54.668	33.476	39.278	0.00	0.00
ATOM	6672	N	HIP	X	443	53.728	32.495	41.067	0.00	0.00
ATOM	6673	H	HIP	X	443	53.772	31.710	41.700	0.00	0.00
ATOM	6674	CA	HIP	X	443	52.510	33.310	41.225	0.00	0.00
ATOM	6675	HA	HIP	X	443	51.765	32.745	40.663	0.00	0.00
ATOM	6676	CB	HIP	X	443	52.229	33.295	42.736	0.00	0.00
ATOM	6677	HB2	HIP	X	443	52.100	32.281	43.114	0.00	0.00
ATOM	6678	HB3	HIP	X	443	53.075	33.738	43.261	0.00	0.00
ATOM	6679	CG	HIP	X	443	51.018	34.029	43.233	0.00	0.00
ATOM	6680	ND1	HIP	X	443	49.784	33.994	42.755	0.00	0.00
ATOM	6681	HD1	HIP	X	443	49.435	33.361	42.049	0.00	0.00
ATOM	6682	CE1	HIP	X	443	48.994	34.952	43.340	0.00	0.00
ATOM	6683	HE1	HIP	X	443	47.924	35.074	43.260	0.00	0.00
ATOM	6684	NE2	HIP	X	443	49.777	35.549	44.281	0.00	0.00
ATOM	6685	HE2	HIP	X	443	49.427	36.091	45.058	0.00	0.00
ATOM	6686	CD2	HIP	X	443	51.061	34.960	44.233	0.00	0.00
ATOM	6687	HD2	HIP	X	443	52.005	35.230	44.683	0.00	0.00
ATOM	6688	C	HIP	X	443	52.639	34.726	40.588	0.00	0.00
ATOM	6689	O	HIP	X	443	53.356	35.593	41.116	0.00	0.00
ATOM	6690	N	GLY	X	444	51.872	34.967	39.552	0.00	0.00
ATOM	6691	H	GLY	X	444	51.324	34.250	39.099	0.00	0.00

ATOM	6692	CA	GLY	X	444	51.637	36.413	39.060	0.00	0.00
ATOM	6693	HA2	GLY	X	444	50.768	36.430	38.345	0.00	0.00
ATOM	6694	HA3	GLY	X	444	51.238	36.987	39.861	0.00	0.00
ATOM	6695	C	GLY	X	444	52.811	37.182	38.363	0.00	0.00
ATOM	6696	O	GLY	X	444	52.820	38.401	38.465	0.00	0.00
ATOM	6697	N	TYR	X	445	53.752	36.409	37.816	0.00	0.00
ATOM	6698	H	TYR	X	445	53.742	35.411	37.974	0.00	0.00
ATOM	6699	CA	TYR	X	445	55.035	37.041	37.433	0.00	0.00
ATOM	6700	HA	TYR	X	445	55.274	37.869	38.100	0.00	0.00
ATOM	6701	CB	TYR	X	445	56.248	36.086	37.594	0.00	0.00
ATOM	6702	HB2	TYR	X	445	55.838	35.128	37.916	0.00	0.00
ATOM	6703	HB3	TYR	X	445	56.747	36.001	36.628	0.00	0.00
ATOM	6704	CG	TYR	X	445	57.186	36.505	38.701	0.00	0.00
ATOM	6705	CD1	TYR	X	445	58.274	37.492	38.434	0.00	0.00
ATOM	6706	HD1	TYR	X	445	58.323	37.944	37.454	0.00	0.00
ATOM	6707	CE1	TYR	X	445	59.117	37.878	39.470	0.00	0.00
ATOM	6708	HE1	TYR	X	445	59.863	38.618	39.221	0.00	0.00
ATOM	6709	CZ	TYR	X	445	58.904	37.489	40.806	0.00	0.00
ATOM	6710	OH	TYR	X	445	59.818	37.816	41.826	0.00	0.00
ATOM	6711	HH	TYR	X	445	60.499	38.425	41.531	0.00	0.00
ATOM	6712	CE2	TYR	X	445	57.786	36.577	41.016	0.00	0.00
ATOM	6713	HE2	TYR	X	445	57.504	36.379	42.040	0.00	0.00
ATOM	6714	CD2	TYR	X	445	56.886	36.160	40.001	0.00	0.00
ATOM	6715	HD2	TYR	X	445	56.063	35.491	40.206	0.00	0.00
ATOM	6716	C	TYR	X	445	54.904	37.610	35.985	0.00	0.00
ATOM	6717	O	TYR	X	445	55.824	38.207	35.463	0.00	0.00
ATOM	6718	N	GLU	X	446	53.746	37.469	35.312	0.00	0.00
ATOM	6719	H	GLU	X	446	52.975	37.063	35.823	0.00	0.00
ATOM	6720	CA	GLU	X	446	53.513	37.709	33.888	0.00	0.00
ATOM	6721	HA	GLU	X	446	54.494	37.529	33.449	0.00	0.00
ATOM	6722	CB	GLU	X	446	52.480	36.685	33.371	0.00	0.00
ATOM	6723	HB2	GLU	X	446	52.632	36.567	32.298	0.00	0.00
ATOM	6724	HB3	GLU	X	446	52.569	35.756	33.934	0.00	0.00
ATOM	6725	CG	GLU	X	446	50.990	37.014	33.340	0.00	0.00
ATOM	6726	HG2	GLU	X	446	50.712	37.973	32.903	0.00	0.00
ATOM	6727	HG3	GLU	X	446	50.512	36.227	32.757	0.00	0.00
ATOM	6728	CD	GLU	X	446	50.335	36.982	34.782	0.00	0.00
ATOM	6729	OE1	GLU	X	446	51.036	37.254	35.814	0.00	0.00
ATOM	6730	OE2	GLU	X	446	49.139	36.720	34.840	0.00	0.00
ATOM	6731	C	GLU	X	446	53.169	39.218	33.578	0.00	0.00
ATOM	6732	O	GLU	X	446	53.537	39.759	32.505	0.00	0.00
ATOM	6733	N	ILE	X	447	52.475	39.882	34.584	0.00	0.00
ATOM	6734	H	ILE	X	447	52.088	39.305	35.317	0.00	0.00
ATOM	6735	CA	ILE	X	447	52.203	41.341	34.701	0.00	0.00
ATOM	6736	HA	ILE	X	447	51.464	41.574	33.934	0.00	0.00
ATOM	6737	CB	ILE	X	447	51.746	41.697	36.095	0.00	0.00
ATOM	6738	HB	ILE	X	447	51.558	42.770	36.108	0.00	0.00
ATOM	6739	CG2	ILE	X	447	50.395	40.935	36.262	0.00	0.00
ATOM	6740	HG21	ILE	X	447	49.710	41.047	35.422	0.00	0.00
ATOM	6741	HG22	ILE	X	447	50.450	39.854	36.390	0.00	0.00
ATOM	6742	HG23	ILE	X	447	49.911	41.241	37.190	0.00	0.00
ATOM	6743	CG1	ILE	X	447	52.680	41.348	37.232	0.00	0.00
ATOM	6744	HG12	ILE	X	447	53.153	40.368	37.168	0.00	0.00
ATOM	6745	HG13	ILE	X	447	53.522	42.034	37.321	0.00	0.00
ATOM	6746	CD1	ILE	X	447	52.135	41.629	38.653	0.00	0.00
ATOM	6747	HD11	ILE	X	447	51.504	40.799	38.969	0.00	0.00
ATOM	6748	HD12	ILE	X	447	52.939	41.642	39.389	0.00	0.00
ATOM	6749	HD13	ILE	X	447	51.671	42.611	38.561	0.00	0.00
ATOM	6750	C	ILE	X	447	53.447	42.216	34.386	0.00	0.00
ATOM	6751	O	ILE	X	447	53.302	43.282	33.769	0.00	0.00
ATOM	6752	N	GLU	X	448	54.690	41.748	34.627	0.00	0.00
ATOM	6753	H	GLU	X	448	54.692	40.799	34.971	0.00	0.00
ATOM	6754	CA	GLU	X	448	55.914	42.523	34.213	0.00	0.00
ATOM	6755	HA	GLU	X	448	55.927	43.519	34.657	0.00	0.00
ATOM	6756	CB	GLU	X	448	57.199	41.830	34.733	0.00	0.00
ATOM	6757	HB2	GLU	X	448	57.373	40.992	34.058	0.00	0.00
ATOM	6758	HB3	GLU	X	448	58.125	42.390	34.601	0.00	0.00
ATOM	6759	CG	GLU	X	448	57.199	41.332	36.208	0.00	0.00
ATOM	6760	HG2	GLU	X	448	56.854	42.180	36.799	0.00	0.00
ATOM	6761	HG3	GLU	X	448	56.555	40.454	36.271	0.00	0.00

ATOM	6762	CD	GLU	X	448	58.655	40.922	36.532	0.00	0.00
ATOM	6763	OE1	GLU	X	448	59.392	41.642	37.242	0.00	0.00
ATOM	6764	OE2	GLU	X	448	59.020	39.810	36.126	0.00	0.00
ATOM	6765	C	GLU	X	448	55.955	42.771	32.721	0.00	0.00
ATOM	6766	O	GLU	X	448	56.352	43.812	32.202	0.00	0.00
ATOM	6767	N	PHE	X	449	55.519	41.811	31.936	0.00	0.00
ATOM	6768	H	PHE	X	449	55.035	41.017	32.330	0.00	0.00
ATOM	6769	CA	PHE	X	449	55.443	41.864	30.468	0.00	0.00
ATOM	6770	HA	PHE	X	449	56.300	42.413	30.078	0.00	0.00
ATOM	6771	CB	PHE	X	449	55.437	40.467	29.835	0.00	0.00
ATOM	6772	HB2	PHE	X	449	54.707	39.772	30.251	0.00	0.00
ATOM	6773	HB3	PHE	X	449	55.265	40.620	28.770	0.00	0.00
ATOM	6774	CG	PHE	X	449	56.779	39.766	29.895	0.00	0.00
ATOM	6775	CD1	PHE	X	449	57.201	39.089	31.051	0.00	0.00
ATOM	6776	HD1	PHE	X	449	56.595	38.819	31.903	0.00	0.00
ATOM	6777	CE1	PHE	X	449	58.477	38.489	31.009	0.00	0.00
ATOM	6778	HE1	PHE	X	449	58.971	38.020	31.847	0.00	0.00
ATOM	6779	CZ	PHE	X	449	59.309	38.550	29.871	0.00	0.00
ATOM	6780	HZ	PHE	X	449	60.339	38.227	29.832	0.00	0.00
ATOM	6781	CE2	PHE	X	449	58.859	39.180	28.741	0.00	0.00
ATOM	6782	HE2	PHE	X	449	59.585	39.106	27.944	0.00	0.00
ATOM	6783	CD2	PHE	X	449	57.621	39.813	28.764	0.00	0.00
ATOM	6784	HD2	PHE	X	449	57.213	40.242	27.861	0.00	0.00
ATOM	6785	C	PHE	X	449	54.165	42.658	29.991	0.00	0.00
ATOM	6786	O	PHE	X	449	54.106	43.053	28.789	0.00	0.00
ATOM	6787	N	ILE	X	450	53.248	43.094	30.875	0.00	0.00
ATOM	6788	H	ILE	X	450	53.519	42.821	31.808	0.00	0.00
ATOM	6789	CA	ILE	X	450	51.986	43.897	30.691	0.00	0.00
ATOM	6790	HA	ILE	X	450	51.585	43.698	29.698	0.00	0.00
ATOM	6791	CB	ILE	X	450	50.853	43.385	31.591	0.00	0.00
ATOM	6792	HB	ILE	X	450	51.089	43.636	32.625	0.00	0.00
ATOM	6793	CG2	ILE	X	450	49.502	44.087	31.424	0.00	0.00
ATOM	6794	HG21	ILE	X	450	48.694	43.604	31.972	0.00	0.00
ATOM	6795	HG22	ILE	X	450	49.563	45.095	31.835	0.00	0.00
ATOM	6796	HG23	ILE	X	450	49.166	44.299	30.409	0.00	0.00
ATOM	6797	CG1	ILE	X	450	50.505	41.897	31.507	0.00	0.00
ATOM	6798	HG12	ILE	X	450	51.469	41.412	31.660	0.00	0.00
ATOM	6799	HG13	ILE	X	450	49.667	41.569	32.122	0.00	0.00
ATOM	6800	CD1	ILE	X	450	50.255	41.417	30.046	0.00	0.00
ATOM	6801	HD11	ILE	X	450	51.160	41.368	29.442	0.00	0.00
ATOM	6802	HD12	ILE	X	450	49.878	40.394	30.058	0.00	0.00
ATOM	6803	HD13	ILE	X	450	49.490	42.054	29.602	0.00	0.00
ATOM	6804	C	ILE	X	450	52.378	45.269	30.865	0.00	0.00
ATOM	6805	O	ILE	X	450	52.269	46.097	29.951	0.00	0.00
ATOM	6806	N	PHE	X	451	53.026	45.583	31.985	0.00	0.00
ATOM	6807	H	PHE	X	451	53.220	44.870	32.673	0.00	0.00
ATOM	6808	CA	PHE	X	451	53.701	46.880	32.280	0.00	0.00
ATOM	6809	HA	PHE	X	451	52.978	47.677	32.104	0.00	0.00
ATOM	6810	CB	PHE	X	451	54.023	46.831	33.759	0.00	0.00
ATOM	6811	HB2	PHE	X	451	54.515	45.906	34.061	0.00	0.00
ATOM	6812	HB3	PHE	X	451	54.703	47.672	33.898	0.00	0.00
ATOM	6813	CG	PHE	X	451	52.827	47.131	34.700	0.00	0.00
ATOM	6814	CD1	PHE	X	451	52.265	46.177	35.608	0.00	0.00
ATOM	6815	HD1	PHE	X	451	52.657	45.171	35.633	0.00	0.00
ATOM	6816	CE1	PHE	X	451	51.115	46.537	36.269	0.00	0.00
ATOM	6817	HE1	PHE	X	451	50.534	45.819	36.828	0.00	0.00
ATOM	6818	CZ	PHE	X	451	50.579	47.866	36.196	0.00	0.00
ATOM	6819	HZ	PHE	X	451	49.679	48.084	36.751	0.00	0.00
ATOM	6820	CE2	PHE	X	451	51.132	48.781	35.305	0.00	0.00
ATOM	6821	HE2	PHE	X	451	50.801	49.808	35.293	0.00	0.00
ATOM	6822	CD2	PHE	X	451	52.277	48.391	34.608	0.00	0.00
ATOM	6823	HD2	PHE	X	451	52.736	49.158	34.002	0.00	0.00
ATOM	6824	C	PHE	X	451	54.936	47.099	31.397	0.00	0.00
ATOM	6825	O	PHE	X	451	55.640	48.069	31.584	0.00	0.00
ATOM	6826	N	GLY	X	452	55.270	46.186	30.589	0.00	0.00
ATOM	6827	H	GLY	X	452	54.620	45.450	30.351	0.00	0.00
ATOM	6828	CA	GLY	X	452	56.229	46.337	29.519	0.00	0.00
ATOM	6829	HA2	GLY	X	452	56.318	45.513	28.793	0.00	0.00
ATOM	6830	HA3	GLY	X	452	55.999	47.265	28.890	0.00	0.00
ATOM	6831	C	GLY	X	452	57.701	46.555	29.978	0.00	0.00

ATOM	6832	O	GLY	X	452	58.424	47.210	29.257	0.00	0.00
ATOM	6833	N	ILE	X	453	58.050	45.974	31.100	0.00	0.00
ATOM	6834	H	ILE	X	453	57.415	45.414	31.650	0.00	0.00
ATOM	6835	CA	ILE	X	453	59.382	46.169	31.657	0.00	0.00
ATOM	6836	HA	ILE	X	453	59.537	47.244	31.745	0.00	0.00
ATOM	6837	CB	ILE	X	453	59.523	45.698	33.072	0.00	0.00
ATOM	6838	HB	ILE	X	453	59.708	44.625	33.032	0.00	0.00
ATOM	6839	CG2	ILE	X	453	60.744	46.367	33.779	0.00	0.00
ATOM	6840	HG21	ILE	X	453	60.925	45.911	34.752	0.00	0.00
ATOM	6841	HG22	ILE	X	453	61.671	46.274	33.213	0.00	0.00
ATOM	6842	HG23	ILE	X	453	60.681	47.444	33.938	0.00	0.00
ATOM	6843	CG1	ILE	X	453	58.328	45.961	34.088	0.00	0.00
ATOM	6844	HG12	ILE	X	453	57.461	45.447	33.672	0.00	0.00
ATOM	6845	HG13	ILE	X	453	58.568	45.457	35.024	0.00	0.00
ATOM	6846	CD1	ILE	X	453	57.809	47.411	34.250	0.00	0.00
ATOM	6847	HD11	ILE	X	453	58.603	48.002	34.707	0.00	0.00
ATOM	6848	HD12	ILE	X	453	57.416	47.911	33.365	0.00	0.00
ATOM	6849	HD13	ILE	X	453	57.061	47.371	35.042	0.00	0.00
ATOM	6850	C	ILE	X	453	60.555	45.812	30.771	0.00	0.00
ATOM	6851	O	ILE	X	453	61.521	46.538	30.677	0.00	0.00
ATOM	6852	N	PRO	X	454	60.468	44.721	29.964	0.00	0.00
ATOM	6853	CD	PRO	X	454	59.564	43.573	30.220	0.00	0.00
ATOM	6854	HD2	PRO	X	454	58.574	43.780	29.814	0.00	0.00
ATOM	6855	HD3	PRO	X	454	59.574	43.384	31.294	0.00	0.00
ATOM	6856	CG	PRO	X	454	60.227	42.403	29.416	0.00	0.00
ATOM	6857	HG2	PRO	X	454	59.482	41.721	29.006	0.00	0.00
ATOM	6858	HG3	PRO	X	454	60.869	41.834	30.088	0.00	0.00
ATOM	6859	CB	PRO	X	454	60.980	43.094	28.311	0.00	0.00
ATOM	6860	HB2	PRO	X	454	60.194	43.370	27.608	0.00	0.00
ATOM	6861	HB3	PRO	X	454	61.722	42.442	27.850	0.00	0.00
ATOM	6862	CA	PRO	X	454	61.489	44.390	28.914	0.00	0.00
ATOM	6863	HA	PRO	X	454	62.436	44.179	29.412	0.00	0.00
ATOM	6864	C	PRO	X	454	61.566	45.477	27.767	0.00	0.00
ATOM	6865	O	PRO	X	454	62.535	45.242	27.026	0.00	0.00
ATOM	6866	N	LEU	X	455	60.676	46.440	27.659	0.00	0.00
ATOM	6867	H	LEU	X	455	59.888	46.443	28.291	0.00	0.00
ATOM	6868	CA	LEU	X	455	60.832	47.533	26.706	0.00	0.00
ATOM	6869	HA	LEU	X	455	61.112	46.994	25.800	0.00	0.00
ATOM	6870	CB	LEU	X	455	59.562	48.451	26.506	0.00	0.00
ATOM	6871	HB2	LEU	X	455	58.704	47.804	26.685	0.00	0.00
ATOM	6872	HB3	LEU	X	455	59.474	49.194	27.298	0.00	0.00
ATOM	6873	CG	LEU	X	455	59.520	49.009	25.076	0.00	0.00
ATOM	6874	HG	LEU	X	455	60.489	49.464	24.871	0.00	0.00
ATOM	6875	CD1	LEU	X	455	59.241	47.990	23.936	0.00	0.00
ATOM	6876	HD11	LEU	X	455	59.930	47.145	23.927	0.00	0.00
ATOM	6877	HD12	LEU	X	455	58.270	47.529	24.123	0.00	0.00
ATOM	6878	HD13	LEU	X	455	59.252	48.603	23.035	0.00	0.00
ATOM	6879	CD2	LEU	X	455	58.322	50.007	25.166	0.00	0.00
ATOM	6880	HD21	LEU	X	455	58.425	50.388	24.150	0.00	0.00
ATOM	6881	HD22	LEU	X	455	57.365	49.495	25.263	0.00	0.00
ATOM	6882	HD23	LEU	X	455	58.483	50.800	25.897	0.00	0.00
ATOM	6883	C	LEU	X	455	62.115	48.378	26.991	0.00	0.00
ATOM	6884	O	LEU	X	455	62.634	48.905	25.979	0.00	0.00
ATOM	6885	N	ASP	X	456	62.644	48.483	28.236	0.00	0.00
ATOM	6886	H	ASP	X	456	62.101	48.051	28.969	0.00	0.00
ATOM	6887	CA	ASP	X	456	63.568	49.554	28.607	0.00	0.00
ATOM	6888	HA	ASP	X	456	63.362	50.426	27.987	0.00	0.00
ATOM	6889	CB	ASP	X	456	63.331	49.986	30.063	0.00	0.00
ATOM	6890	HB2	ASP	X	456	62.291	50.290	30.178	0.00	0.00
ATOM	6891	HB3	ASP	X	456	63.467	49.139	30.735	0.00	0.00
ATOM	6892	CG	ASP	X	456	64.342	51.169	30.381	0.00	0.00
ATOM	6893	OD1	ASP	X	456	65.311	50.837	31.121	0.00	0.00
ATOM	6894	OD2	ASP	X	456	64.169	52.323	29.890	0.00	0.00
ATOM	6895	C	ASP	X	456	65.087	49.072	28.420	0.00	0.00
ATOM	6896	O	ASP	X	456	65.394	47.973	28.916	0.00	0.00
ATOM	6897	N	PRO	X	457	65.983	49.827	27.846	0.00	0.00
ATOM	6898	CD	PRO	X	457	65.704	51.078	27.161	0.00	0.00
ATOM	6899	HD2	PRO	X	457	65.680	51.833	27.948	0.00	0.00
ATOM	6900	HD3	PRO	X	457	64.772	50.928	26.617	0.00	0.00
ATOM	6901	CG	PRO	X	457	66.806	51.256	26.118	0.00	0.00

ATOM	6902	HG2	PRO	X	457	66.936	52.326	25.954	0.00	0.00
ATOM	6903	HG3	PRO	X	457	66.579	50.784	25.163	0.00	0.00
ATOM	6904	CB	PRO	X	457	68.014	50.621	26.781	0.00	0.00
ATOM	6905	HB2	PRO	X	457	68.401	51.347	27.495	0.00	0.00
ATOM	6906	HB3	PRO	X	457	68.814	50.260	26.135	0.00	0.00
ATOM	6907	CA	PRO	X	457	67.409	49.508	27.612	0.00	0.00
ATOM	6908	HA	PRO	X	457	67.439	48.632	26.964	0.00	0.00
ATOM	6909	C	PRO	X	457	68.193	49.206	28.884	0.00	0.00
ATOM	6910	O	PRO	X	457	69.123	48.418	28.781	0.00	0.00
ATOM	6911	N	SER	X	458	67.920	49.808	30.079	0.00	0.00
ATOM	6912	H	SER	X	458	67.055	50.328	30.112	0.00	0.00
ATOM	6913	CA	SER	X	458	68.689	49.534	31.358	0.00	0.00
ATOM	6914	HA	SER	X	458	69.766	49.452	31.210	0.00	0.00
ATOM	6915	CB	SER	X	458	68.537	50.790	32.343	0.00	0.00
ATOM	6916	HB2	SER	X	458	69.279	50.742	33.139	0.00	0.00
ATOM	6917	HB3	SER	X	458	68.600	51.790	31.913	0.00	0.00
ATOM	6918	OG	SER	X	458	67.188	50.694	32.920	0.00	0.00
ATOM	6919	HG	SER	X	458	66.632	50.750	32.139	0.00	0.00
ATOM	6920	C	SER	X	458	68.274	48.161	31.997	0.00	0.00
ATOM	6921	O	SER	X	458	69.026	47.755	32.836	0.00	0.00
ATOM	6922	N	ARG	X	459	67.265	47.450	31.535	0.00	0.00
ATOM	6923	H	ARG	X	459	66.795	47.775	30.703	0.00	0.00
ATOM	6924	CA	ARG	X	459	66.768	46.257	32.115	0.00	0.00
ATOM	6925	HA	ARG	X	459	66.974	46.308	33.184	0.00	0.00
ATOM	6926	CB	ARG	X	459	65.312	46.166	31.879	0.00	0.00
ATOM	6927	HB2	ARG	X	459	65.066	46.152	30.818	0.00	0.00
ATOM	6928	HB3	ARG	X	459	64.884	45.180	32.061	0.00	0.00
ATOM	6929	CG	ARG	X	459	64.567	47.305	32.586	0.00	0.00
ATOM	6930	HG2	ARG	X	459	65.169	48.213	32.613	0.00	0.00
ATOM	6931	HG3	ARG	X	459	63.625	47.574	32.108	0.00	0.00
ATOM	6932	CD	ARG	X	459	64.287	47.042	34.033	0.00	0.00
ATOM	6933	HD2	ARG	X	459	63.645	46.161	34.060	0.00	0.00
ATOM	6934	HD3	ARG	X	459	65.172	46.689	34.562	0.00	0.00
ATOM	6935	NE	ARG	X	459	63.655	48.177	34.636	0.00	0.00
ATOM	6936	HE	ARG	X	459	63.596	48.988	34.037	0.00	0.00
ATOM	6937	CZ	ARG	X	459	63.007	48.154	35.800	0.00	0.00
ATOM	6938	NH1	ARG	X	459	62.853	47.078	36.569	0.00	0.00
ATOM	6939	HH11	ARG	X	459	63.427	46.258	36.433	0.00	0.00
ATOM	6940	HH12	ARG	X	459	62.017	46.976	37.126	0.00	0.00
ATOM	6941	NH2	ARG	X	459	62.489	49.360	36.077	0.00	0.00
ATOM	6942	HH21	ARG	X	459	62.730	50.170	35.525	0.00	0.00
ATOM	6943	HH22	ARG	X	459	61.944	49.457	36.922	0.00	0.00
ATOM	6944	C	ARG	X	459	67.591	45.149	31.505	0.00	0.00
ATOM	6945	O	ARG	X	459	68.180	45.259	30.426	0.00	0.00
ATOM	6946	N	ASN	X	460	67.598	44.007	32.251	0.00	0.00
ATOM	6947	H	ASN	X	460	67.003	44.015	33.067	0.00	0.00
ATOM	6948	CA	ASN	X	460	68.393	42.807	32.081	0.00	0.00
ATOM	6949	HA	ASN	X	460	69.451	43.017	31.924	0.00	0.00
ATOM	6950	CB	ASN	X	460	68.360	41.965	33.388	0.00	0.00
ATOM	6951	HB2	ASN	X	460	68.895	42.512	34.165	0.00	0.00
ATOM	6952	HB3	ASN	X	460	67.333	41.987	33.753	0.00	0.00
ATOM	6953	CG	ASN	X	460	68.946	40.619	33.273	0.00	0.00
ATOM	6954	OD1	ASN	X	460	70.131	40.487	33.356	0.00	0.00
ATOM	6955	ND2	ASN	X	460	68.317	39.617	32.936	0.00	0.00
ATOM	6956	HD21	ASN	X	460	68.711	38.707	33.126	0.00	0.00
ATOM	6957	HD22	ASN	X	460	67.337	39.710	32.712	0.00	0.00
ATOM	6958	C	ASN	X	460	67.914	41.989	30.842	0.00	0.00
ATOM	6959	O	ASN	X	460	68.725	41.279	30.207	0.00	0.00
ATOM	6960	N	TYR	X	461	66.612	42.130	30.594	0.00	0.00
ATOM	6961	H	TYR	X	461	66.035	42.698	31.197	0.00	0.00
ATOM	6962	CA	TYR	X	461	65.805	41.377	29.520	0.00	0.00
ATOM	6963	HA	TYR	X	461	65.729	40.331	29.818	0.00	0.00
ATOM	6964	CB	TYR	X	461	64.376	41.821	29.475	0.00	0.00
ATOM	6965	HB2	TYR	X	461	64.352	42.897	29.298	0.00	0.00
ATOM	6966	HB3	TYR	X	461	63.874	41.252	28.693	0.00	0.00
ATOM	6967	CG	TYR	X	461	63.536	41.637	30.763	0.00	0.00
ATOM	6968	CD1	TYR	X	461	63.220	42.724	31.618	0.00	0.00
ATOM	6969	HD1	TYR	X	461	63.659	43.692	31.425	0.00	0.00
ATOM	6970	CE1	TYR	X	461	62.239	42.568	32.624	0.00	0.00
ATOM	6971	HE1	TYR	X	461	62.056	43.342	33.356	0.00	0.00

ATOM	6972	CZ	TYR	X	461	61.565	41.369	32.855	0.00	0.00
ATOM	6973	OH	TYR	X	461	60.787	41.158	33.910	0.00	0.00
ATOM	6974	HH	TYR	X	461	60.651	40.215	34.034	0.00	0.00
ATOM	6975	CE2	TYR	X	461	61.870	40.264	31.972	0.00	0.00
ATOM	6976	HE2	TYR	X	461	61.382	39.306	32.076	0.00	0.00
ATOM	6977	CD2	TYR	X	461	62.849	40.402	30.949	0.00	0.00
ATOM	6978	HD2	TYR	X	461	63.171	39.547	30.373	0.00	0.00
ATOM	6979	C	TYR	X	461	66.386	41.382	28.120	0.00	0.00
ATOM	6980	O	TYR	X	461	66.934	42.410	27.709	0.00	0.00
ATOM	6981	N	THR	X	462	66.317	40.277	27.424	0.00	0.00
ATOM	6982	H	THR	X	462	65.943	39.463	27.891	0.00	0.00
ATOM	6983	CA	THR	X	462	66.878	40.018	26.052	0.00	0.00
ATOM	6984	HA	THR	X	462	67.811	40.572	25.947	0.00	0.00
ATOM	6985	CB	THR	X	462	67.357	38.613	25.882	0.00	0.00
ATOM	6986	HB	THR	X	462	67.809	38.520	24.895	0.00	0.00
ATOM	6987	CG2	THR	X	462	68.466	38.114	26.781	0.00	0.00
ATOM	6988	HG21	THR	X	462	69.380	38.706	26.721	0.00	0.00
ATOM	6989	HG22	THR	X	462	68.068	38.057	27.794	0.00	0.00
ATOM	6990	HG23	THR	X	462	68.711	37.110	26.436	0.00	0.00
ATOM	6991	OG1	THR	X	462	66.341	37.755	25.907	0.00	0.00
ATOM	6992	HG1	THR	X	462	66.076	37.672	26.825	0.00	0.00
ATOM	6993	C	THR	X	462	65.916	40.504	25.001	0.00	0.00
ATOM	6994	O	THR	X	462	64.708	40.657	25.265	0.00	0.00
ATOM	6995	N	ALA	X	463	66.421	40.780	23.811	0.00	0.00
ATOM	6996	H	ALA	X	463	67.398	40.539	23.723	0.00	0.00
ATOM	6997	CA	ALA	X	463	65.742	41.310	22.638	0.00	0.00
ATOM	6998	HA	ALA	X	463	65.444	42.341	22.828	0.00	0.00
ATOM	6999	CB	ALA	X	463	66.702	41.434	21.423	0.00	0.00
ATOM	7000	HB1	ALA	X	463	66.300	42.062	20.628	0.00	0.00
ATOM	7001	HB2	ALA	X	463	67.638	41.847	21.798	0.00	0.00
ATOM	7002	HB3	ALA	X	463	66.895	40.412	21.097	0.00	0.00
ATOM	7003	C	ALA	X	463	64.419	40.459	22.345	0.00	0.00
ATOM	7004	O	ALA	X	463	63.395	41.040	21.946	0.00	0.00
ATOM	7005	N	GLU	X	464	64.525	39.129	22.572	0.00	0.00
ATOM	7006	H	GLU	X	464	65.429	38.767	22.838	0.00	0.00
ATOM	7007	CA	GLU	X	464	63.415	38.183	22.392	0.00	0.00
ATOM	7008	HA	GLU	X	464	62.888	38.408	21.465	0.00	0.00
ATOM	7009	CB	GLU	X	464	63.969	36.709	22.260	0.00	0.00
ATOM	7010	HB2	GLU	X	464	63.072	36.101	22.138	0.00	0.00
ATOM	7011	HB3	GLU	X	464	64.607	36.683	21.377	0.00	0.00
ATOM	7012	CG	GLU	X	464	64.873	36.174	23.436	0.00	0.00
ATOM	7013	HG2	GLU	X	464	65.787	36.762	23.360	0.00	0.00
ATOM	7014	HG3	GLU	X	464	64.286	36.325	24.342	0.00	0.00
ATOM	7015	CD	GLU	X	464	65.290	34.728	23.203	0.00	0.00
ATOM	7016	OE1	GLU	X	464	66.259	34.249	23.809	0.00	0.00
ATOM	7017	OE2	GLU	X	464	64.511	34.007	22.589	0.00	0.00
ATOM	7018	C	GLU	X	464	62.289	38.276	23.402	0.00	0.00
ATOM	7019	O	GLU	X	464	61.088	38.146	23.080	0.00	0.00
ATOM	7020	N	GLU	X	465	62.736	38.614	24.631	0.00	0.00
ATOM	7021	H	GLU	X	465	63.664	39.009	24.687	0.00	0.00
ATOM	7022	CA	GLU	X	465	61.822	38.870	25.750	0.00	0.00
ATOM	7023	HA	GLU	X	465	60.992	38.165	25.800	0.00	0.00
ATOM	7024	CB	GLU	X	465	62.563	38.823	27.077	0.00	0.00
ATOM	7025	HB2	GLU	X	465	63.281	39.641	27.145	0.00	0.00
ATOM	7026	HB3	GLU	X	465	61.779	38.825	27.834	0.00	0.00
ATOM	7027	CG	GLU	X	465	63.144	37.359	27.225	0.00	0.00
ATOM	7028	HG2	GLU	X	465	62.389	36.613	27.475	0.00	0.00
ATOM	7029	HG3	GLU	X	465	63.560	37.023	26.275	0.00	0.00
ATOM	7030	CD	GLU	X	465	64.112	37.197	28.376	0.00	0.00
ATOM	7031	OE1	GLU	X	465	65.209	37.740	28.278	0.00	0.00
ATOM	7032	OE2	GLU	X	465	63.714	36.504	29.341	0.00	0.00
ATOM	7033	C	GLU	X	465	61.248	40.274	25.635	0.00	0.00
ATOM	7034	O	GLU	X	465	60.098	40.444	25.897	0.00	0.00
ATOM	7035	N	LYS	X	466	62.047	41.190	25.104	0.00	0.00
ATOM	7036	H	LYS	X	466	62.979	40.880	24.869	0.00	0.00
ATOM	7037	CA	LYS	X	466	61.602	42.531	24.645	0.00	0.00
ATOM	7038	HA	LYS	X	466	61.168	43.021	25.517	0.00	0.00
ATOM	7039	CB	LYS	X	466	62.793	43.510	24.183	0.00	0.00
ATOM	7040	HB2	LYS	X	466	63.570	43.649	24.935	0.00	0.00
ATOM	7041	HB3	LYS	X	466	63.261	43.087	23.295	0.00	0.00

ATOM	7042	CG	LYS	X	466	62.193	44.810	23.657	0.00	0.00
ATOM	7043	HG2	LYS	X	466	61.864	44.664	22.629	0.00	0.00
ATOM	7044	HG3	LYS	X	466	61.369	45.077	24.319	0.00	0.00
ATOM	7045	CD	LYS	X	466	63.202	45.840	23.362	0.00	0.00
ATOM	7046	HD2	LYS	X	466	63.695	46.123	24.293	0.00	0.00
ATOM	7047	HD3	LYS	X	466	63.972	45.536	22.653	0.00	0.00
ATOM	7048	CE	LYS	X	466	62.503	47.074	22.851	0.00	0.00
ATOM	7049	HE2	LYS	X	466	61.711	47.260	23.576	0.00	0.00
ATOM	7050	HE3	LYS	X	466	63.148	47.951	22.895	0.00	0.00
ATOM	7051	NZ	LYS	X	466	62.063	46.918	21.476	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	62.650	46.305	20.928	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	61.104	46.602	21.436	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	62.134	47.777	20.950	0.00	0.00
ATOM	7055	C	LYS	X	466	60.449	42.317	23.566	0.00	0.00
ATOM	7056	O	LYS	X	466	59.486	43.076	23.654	0.00	0.00
ATOM	7057	N	ILE	X	467	60.606	41.502	22.583	0.00	0.00
ATOM	7058	H	ILE	X	467	61.388	40.864	22.637	0.00	0.00
ATOM	7059	CA	ILE	X	467	59.684	41.307	21.452	0.00	0.00
ATOM	7060	HA	ILE	X	467	59.344	42.284	21.108	0.00	0.00
ATOM	7061	CB	ILE	X	467	60.505	40.574	20.325	0.00	0.00
ATOM	7062	HB	ILE	X	467	61.368	40.118	20.809	0.00	0.00
ATOM	7063	CG2	ILE	X	467	59.794	39.459	19.520	0.00	0.00
ATOM	7064	HG21	ILE	X	467	60.426	38.927	18.808	0.00	0.00
ATOM	7065	HG22	ILE	X	467	59.563	38.665	20.230	0.00	0.00
ATOM	7066	HG23	ILE	X	467	58.813	39.786	19.176	0.00	0.00
ATOM	7067	CG1	ILE	X	467	60.979	41.677	19.378	0.00	0.00
ATOM	7068	HG12	ILE	X	467	60.128	42.065	18.819	0.00	0.00
ATOM	7069	HG13	ILE	X	467	61.503	42.418	19.982	0.00	0.00
ATOM	7070	CD1	ILE	X	467	62.170	41.170	18.485	0.00	0.00
ATOM	7071	HD11	ILE	X	467	61.750	40.492	17.742	0.00	0.00
ATOM	7072	HD12	ILE	X	467	62.727	41.974	18.004	0.00	0.00
ATOM	7073	HD13	ILE	X	467	62.807	40.623	19.181	0.00	0.00
ATOM	7074	C	ILE	X	467	58.449	40.577	21.926	0.00	0.00
ATOM	7075	O	ILE	X	467	57.389	41.129	21.513	0.00	0.00
ATOM	7076	N	PHE	X	468	58.548	39.633	22.853	0.00	0.00
ATOM	7077	H	PHE	X	468	59.430	39.197	23.081	0.00	0.00
ATOM	7078	CA	PHE	X	468	57.379	39.074	23.494	0.00	0.00
ATOM	7079	HA	PHE	X	468	56.659	38.628	22.808	0.00	0.00
ATOM	7080	CB	PHE	X	468	57.858	37.897	24.306	0.00	0.00
ATOM	7081	HB2	PHE	X	468	58.266	37.150	23.625	0.00	0.00
ATOM	7082	HB3	PHE	X	468	58.653	38.245	24.966	0.00	0.00
ATOM	7083	CG	PHE	X	468	56.733	37.123	25.068	0.00	0.00
ATOM	7084	CD1	PHE	X	468	55.452	36.749	24.608	0.00	0.00
ATOM	7085	HD1	PHE	X	468	55.187	37.056	23.607	0.00	0.00
ATOM	7086	CE1	PHE	X	468	54.595	35.985	25.458	0.00	0.00
ATOM	7087	HE1	PHE	X	468	53.607	35.848	25.043	0.00	0.00
ATOM	7088	CZ	PHE	X	468	55.066	35.505	26.669	0.00	0.00
ATOM	7089	HZ	PHE	X	468	54.444	34.887	27.299	0.00	0.00
ATOM	7090	CE2	PHE	X	468	56.374	35.781	27.092	0.00	0.00
ATOM	7091	HE2	PHE	X	468	56.781	35.253	27.942	0.00	0.00
ATOM	7092	CD2	PHE	X	468	57.144	36.610	26.272	0.00	0.00
ATOM	7093	HD2	PHE	X	468	58.144	36.798	26.633	0.00	0.00
ATOM	7094	C	PHE	X	468	56.651	40.122	24.380	0.00	0.00
ATOM	7095	O	PHE	X	468	55.394	40.142	24.317	0.00	0.00
ATOM	7096	N	ALA	X	469	57.340	40.903	25.187	0.00	0.00
ATOM	7097	H	ALA	X	469	58.337	40.752	25.236	0.00	0.00
ATOM	7098	CA	ALA	X	469	56.638	42.031	25.944	0.00	0.00
ATOM	7099	HA	ALA	X	469	56.061	41.365	26.585	0.00	0.00
ATOM	7100	CB	ALA	X	469	57.583	42.954	26.740	0.00	0.00
ATOM	7101	HB1	ALA	X	469	57.085	43.894	26.977	0.00	0.00
ATOM	7102	HB2	ALA	X	469	58.074	42.467	27.582	0.00	0.00
ATOM	7103	HB3	ALA	X	469	58.351	43.270	26.033	0.00	0.00
ATOM	7104	C	ALA	X	469	55.745	42.885	25.048	0.00	0.00
ATOM	7105	O	ALA	X	469	54.543	43.070	25.407	0.00	0.00
ATOM	7106	N	GLN	X	470	56.178	43.348	23.919	0.00	0.00
ATOM	7107	H	GLN	X	470	57.161	43.340	23.687	0.00	0.00
ATOM	7108	CA	GLN	X	470	55.307	44.114	22.978	0.00	0.00
ATOM	7109	HA	GLN	X	470	54.890	44.950	23.539	0.00	0.00
ATOM	7110	CB	GLN	X	470	56.207	44.608	21.841	0.00	0.00
ATOM	7111	HB2	GLN	X	470	56.672	43.809	21.263	0.00	0.00

ATOM	7112	HB3	GLN	X	470	55.610	45.182	21.133	0.00	0.00
ATOM	7113	CG	GLN	X	470	57.301	45.546	22.342	0.00	0.00
ATOM	7114	HG2	GLN	X	470	56.813	46.445	22.717	0.00	0.00
ATOM	7115	HG3	GLN	X	470	57.866	45.124	23.173	0.00	0.00
ATOM	7116	CD	GLN	X	470	58.381	45.996	21.306	0.00	0.00
ATOM	7117	OE1	GLN	X	470	59.457	45.417	21.307	0.00	0.00
ATOM	7118	NE2	GLN	X	470	58.091	46.977	20.449	0.00	0.00
ATOM	7119	HE21	GLN	X	470	58.729	47.040	19.669	0.00	0.00
ATOM	7120	HE22	GLN	X	470	57.134	47.278	20.331	0.00	0.00
ATOM	7121	C	GLN	X	470	54.103	43.372	22.454	0.00	0.00
ATOM	7122	O	GLN	X	470	53.153	44.000	21.981	0.00	0.00
ATOM	7123	N	ARG	X	471	54.098	42.030	22.392	0.00	0.00
ATOM	7124	H	ARG	X	471	54.997	41.571	22.416	0.00	0.00
ATOM	7125	CA	ARG	X	471	52.931	41.233	22.258	0.00	0.00
ATOM	7126	HA	ARG	X	471	52.376	41.597	21.393	0.00	0.00
ATOM	7127	CB	ARG	X	471	53.279	39.751	21.983	0.00	0.00
ATOM	7128	HB2	ARG	X	471	54.195	39.498	22.518	0.00	0.00
ATOM	7129	HB3	ARG	X	471	52.464	39.200	22.451	0.00	0.00
ATOM	7130	CG	ARG	X	471	53.498	39.489	20.498	0.00	0.00
ATOM	7131	HG2	ARG	X	471	52.524	39.582	20.018	0.00	0.00
ATOM	7132	HG3	ARG	X	471	54.188	40.240	20.114	0.00	0.00
ATOM	7133	CD	ARG	X	471	54.111	38.106	20.256	0.00	0.00
ATOM	7134	HD2	ARG	X	471	54.538	37.969	19.263	0.00	0.00
ATOM	7135	HD3	ARG	X	471	54.806	38.078	21.095	0.00	0.00
ATOM	7136	NE	ARG	X	471	53.134	37.088	20.456	0.00	0.00
ATOM	7137	HE	ARG	X	471	52.267	37.261	19.968	0.00	0.00
ATOM	7138	CZ	ARG	X	471	53.262	35.964	21.113	0.00	0.00
ATOM	7139	NH1	ARG	X	471	54.425	35.521	21.515	0.00	0.00
ATOM	7140	HH11	ARG	X	471	55.200	36.080	21.187	0.00	0.00
ATOM	7141	HH12	ARG	X	471	54.673	34.606	21.862	0.00	0.00
ATOM	7142	NH2	ARG	X	471	52.233	35.231	21.299	0.00	0.00
ATOM	7143	HH21	ARG	X	471	51.307	35.507	21.008	0.00	0.00
ATOM	7144	HH22	ARG	X	471	52.305	34.291	21.662	0.00	0.00
ATOM	7145	C	ARG	X	471	52.017	41.426	23.443	0.00	0.00
ATOM	7146	O	ARG	X	471	50.875	41.886	23.246	0.00	0.00
ATOM	7147	N	LEU	X	472	52.392	41.045	24.640	0.00	0.00
ATOM	7148	H	LEU	X	472	53.314	40.655	24.775	0.00	0.00
ATOM	7149	CA	LEU	X	472	51.425	41.029	25.779	0.00	0.00
ATOM	7150	HA	LEU	X	472	50.566	40.404	25.534	0.00	0.00
ATOM	7151	CB	LEU	X	472	51.948	40.265	26.978	0.00	0.00
ATOM	7152	HB2	LEU	X	472	52.590	40.925	27.561	0.00	0.00
ATOM	7153	HB3	LEU	X	472	51.069	40.162	27.615	0.00	0.00
ATOM	7154	CG	LEU	X	472	52.516	38.852	26.743	0.00	0.00
ATOM	7155	HG	LEU	X	472	53.401	39.071	26.144	0.00	0.00
ATOM	7156	CD1	LEU	X	472	53.003	38.186	28.052	0.00	0.00
ATOM	7157	HD11	LEU	X	472	53.811	38.830	28.401	0.00	0.00
ATOM	7158	HD12	LEU	X	472	52.214	38.180	28.804	0.00	0.00
ATOM	7159	HD13	LEU	X	472	53.357	37.182	27.822	0.00	0.00
ATOM	7160	CD2	LEU	X	472	51.695	37.935	25.856	0.00	0.00
ATOM	7161	HD21	LEU	X	472	50.657	37.834	26.174	0.00	0.00
ATOM	7162	HD22	LEU	X	472	51.750	38.322	24.839	0.00	0.00
ATOM	7163	HD23	LEU	X	472	52.112	36.937	25.988	0.00	0.00
ATOM	7164	C	LEU	X	472	50.907	42.384	26.146	0.00	0.00
ATOM	7165	O	LEU	X	472	49.728	42.499	26.399	0.00	0.00
ATOM	7166	N	MET	X	473	51.654	43.453	26.034	0.00	0.00
ATOM	7167	H	MET	X	473	52.625	43.204	25.909	0.00	0.00
ATOM	7168	CA	MET	X	473	51.269	44.834	25.800	0.00	0.00
ATOM	7169	HA	MET	X	473	50.872	45.207	26.744	0.00	0.00
ATOM	7170	CB	MET	X	473	52.508	45.668	25.392	0.00	0.00
ATOM	7171	HB2	MET	X	473	52.908	45.291	24.450	0.00	0.00
ATOM	7172	HB3	MET	X	473	52.136	46.679	25.225	0.00	0.00
ATOM	7173	CG	MET	X	473	53.626	45.814	26.369	0.00	0.00
ATOM	7174	HG2	MET	X	473	53.139	46.285	27.222	0.00	0.00
ATOM	7175	HG3	MET	X	473	53.812	44.818	26.770	0.00	0.00
ATOM	7176	SD	MET	X	473	55.124	46.741	25.938	0.00	0.00
ATOM	7177	CE	MET	X	473	54.574	48.353	26.410	0.00	0.00
ATOM	7178	HE1	MET	X	473	55.414	48.979	26.108	0.00	0.00
ATOM	7179	HE2	MET	X	473	53.668	48.652	25.883	0.00	0.00
ATOM	7180	HE3	MET	X	473	54.355	48.350	27.478	0.00	0.00
ATOM	7181	C	MET	X	473	50.153	45.010	24.757	0.00	0.00

ATOM	7182	O	MET	X	473	49.104	45.481	25.101	0.00	0.00
ATOM	7183	N	ARG	X	474	50.367	44.569	23.503	0.00	0.00
ATOM	7184	H	ARG	X	474	51.270	44.212	23.225	0.00	0.00
ATOM	7185	CA	ARG	X	474	49.389	44.681	22.388	0.00	0.00
ATOM	7186	HA	ARG	X	474	49.200	45.754	22.356	0.00	0.00
ATOM	7187	CB	ARG	X	474	50.105	44.278	21.058	0.00	0.00
ATOM	7188	HB2	ARG	X	474	51.015	44.849	20.875	0.00	0.00
ATOM	7189	HB3	ARG	X	474	50.359	43.218	21.084	0.00	0.00
ATOM	7190	CG	ARG	X	474	49.178	44.498	19.853	0.00	0.00
ATOM	7191	HG2	ARG	X	474	49.835	44.285	19.010	0.00	0.00
ATOM	7192	HG3	ARG	X	474	48.434	43.701	19.860	0.00	0.00
ATOM	7193	CD	ARG	X	474	48.636	45.926	19.672	0.00	0.00
ATOM	7194	HD2	ARG	X	474	47.889	46.063	20.454	0.00	0.00
ATOM	7195	HD3	ARG	X	474	49.524	46.549	19.775	0.00	0.00
ATOM	7196	NE	ARG	X	474	47.970	46.192	18.380	0.00	0.00
ATOM	7197	HE	ARG	X	474	47.605	45.342	17.975	0.00	0.00
ATOM	7198	CZ	ARG	X	474	47.969	47.271	17.671	0.00	0.00
ATOM	7199	NH1	ARG	X	474	48.476	48.334	18.185	0.00	0.00
ATOM	7200	HH11	ARG	X	474	48.960	48.325	19.072	0.00	0.00
ATOM	7201	HH12	ARG	X	474	48.396	49.212	17.692	0.00	0.00
ATOM	7202	NH2	ARG	X	474	47.483	47.308	16.517	0.00	0.00
ATOM	7203	HH21	ARG	X	474	47.277	46.409	16.105	0.00	0.00
ATOM	7204	HH22	ARG	X	474	47.289	48.175	16.037	0.00	0.00
ATOM	7205	C	ARG	X	474	48.158	43.951	22.709	0.00	0.00
ATOM	7206	O	ARG	X	474	47.076	44.380	22.256	0.00	0.00
ATOM	7207	N	TYR	X	475	48.168	42.749	23.314	0.00	0.00
ATOM	7208	H	TYR	X	475	49.046	42.337	23.596	0.00	0.00
ATOM	7209	CA	TYR	X	475	46.946	42.001	23.677	0.00	0.00
ATOM	7210	HA	TYR	X	475	46.341	42.024	22.771	0.00	0.00
ATOM	7211	CB	TYR	X	475	47.304	40.515	23.961	0.00	0.00
ATOM	7212	HB2	TYR	X	475	47.826	40.343	24.902	0.00	0.00
ATOM	7213	HB3	TYR	X	475	46.307	40.107	24.129	0.00	0.00
ATOM	7214	CG	TYR	X	475	48.124	39.689	22.969	0.00	0.00
ATOM	7215	CD1	TYR	X	475	47.934	39.885	21.567	0.00	0.00
ATOM	7216	HD1	TYR	X	475	47.318	40.685	21.184	0.00	0.00
ATOM	7217	CE1	TYR	X	475	48.559	39.116	20.632	0.00	0.00
ATOM	7218	HE1	TYR	X	475	48.345	39.354	19.601	0.00	0.00
ATOM	7219	CZ	TYR	X	475	49.548	38.190	21.009	0.00	0.00
ATOM	7220	OH	TYR	X	475	50.072	37.361	20.064	0.00	0.00
ATOM	7221	HH	TYR	X	475	49.699	37.509	19.191	0.00	0.00
ATOM	7222	CE2	TYR	X	475	49.677	37.900	22.432	0.00	0.00
ATOM	7223	HE2	TYR	X	475	50.458	37.208	22.713	0.00	0.00
ATOM	7224	CD2	TYR	X	475	48.927	38.577	23.399	0.00	0.00
ATOM	7225	HD2	TYR	X	475	49.045	38.205	24.406	0.00	0.00
ATOM	7226	C	TYR	X	475	46.111	42.576	24.769	0.00	0.00
ATOM	7227	O	TYR	X	475	44.905	42.543	24.681	0.00	0.00
ATOM	7228	N	TRP	X	476	46.660	43.081	25.912	0.00	0.00
ATOM	7229	H	TRP	X	476	47.644	42.994	26.120	0.00	0.00
ATOM	7230	CA	TRP	X	476	45.813	43.730	26.924	0.00	0.00
ATOM	7231	HA	TRP	X	476	44.945	43.100	27.117	0.00	0.00
ATOM	7232	CB	TRP	X	476	46.695	43.868	28.204	0.00	0.00
ATOM	7233	HB2	TRP	X	476	47.701	44.017	27.813	0.00	0.00
ATOM	7234	HB3	TRP	X	476	46.507	44.825	28.690	0.00	0.00
ATOM	7235	CG	TRP	X	476	46.593	42.717	29.199	0.00	0.00
ATOM	7236	CD1	TRP	X	476	46.381	42.964	30.536	0.00	0.00
ATOM	7237	HD1	TRP	X	476	46.041	43.887	30.982	0.00	0.00
ATOM	7238	NE1	TRP	X	476	46.462	41.719	31.254	0.00	0.00
ATOM	7239	HE1	TRP	X	476	46.415	41.730	32.263	0.00	0.00
ATOM	7240	CE2	TRP	X	476	46.772	40.671	30.426	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	46.977	39.310	30.677	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	46.834	38.842	31.640	0.00	0.00
ATOM	7243	CH2	TRP	X	476	47.415	38.491	29.663	0.00	0.00
ATOM	7244	HH2	TRP	X	476	47.584	37.456	29.922	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	47.608	39.002	28.345	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	47.950	38.353	27.552	0.00	0.00
ATOM	7247	CE3	TRP	X	476	47.340	40.330	28.081	0.00	0.00
ATOM	7248	HE3	TRP	X	476	47.532	40.636	27.063	0.00	0.00
ATOM	7249	CD2	TRP	X	476	46.854	41.266	29.126	0.00	0.00
ATOM	7250	C	TRP	X	476	45.457	45.173	26.448	0.00	0.00
ATOM	7251	O	TRP	X	476	44.343	45.625	26.650	0.00	0.00

ATOM	7252	N	ALA	X	477	46.335	45.900	25.728	0.00	0.00
ATOM	7253	H	ALA	X	477	47.250	45.478	25.656	0.00	0.00
ATOM	7254	CA	ALA	X	477	45.872	47.123	24.916	0.00	0.00
ATOM	7255	HA	ALA	X	477	45.471	47.805	25.667	0.00	0.00
ATOM	7256	CB	ALA	X	477	46.991	47.728	24.176	0.00	0.00
ATOM	7257	HB1	ALA	X	477	46.736	48.631	23.622	0.00	0.00
ATOM	7258	HB2	ALA	X	477	47.824	47.987	24.829	0.00	0.00
ATOM	7259	HB3	ALA	X	477	47.399	47.037	23.438	0.00	0.00
ATOM	7260	C	ALA	X	477	44.710	46.884	23.982	0.00	0.00
ATOM	7261	O	ALA	X	477	43.704	47.560	24.044	0.00	0.00
ATOM	7262	N	ASN	X	478	44.707	45.742	23.291	0.00	0.00
ATOM	7263	H	ASN	X	478	45.568	45.216	23.239	0.00	0.00
ATOM	7264	CA	ASN	X	478	43.644	45.440	22.284	0.00	0.00
ATOM	7265	HA	ASN	X	478	43.477	46.295	21.629	0.00	0.00
ATOM	7266	CB	ASN	X	478	44.021	44.275	21.307	0.00	0.00
ATOM	7267	HB2	ASN	X	478	44.564	43.467	21.798	0.00	0.00
ATOM	7268	HB3	ASN	X	478	43.115	43.883	20.845	0.00	0.00
ATOM	7269	CG	ASN	X	478	44.909	44.746	20.200	0.00	0.00
ATOM	7270	OD1	ASN	X	478	45.034	45.931	19.821	0.00	0.00
ATOM	7271	ND2	ASN	X	478	45.500	43.822	19.488	0.00	0.00
ATOM	7272	HD21	ASN	X	478	46.072	44.054	18.689	0.00	0.00
ATOM	7273	HD22	ASN	X	478	45.475	42.883	19.860	0.00	0.00
ATOM	7274	C	ASN	X	478	42.344	45.161	23.030	0.00	0.00
ATOM	7275	O	ASN	X	478	41.342	45.805	22.876	0.00	0.00
ATOM	7276	N	PHE	X	479	42.320	44.423	24.165	0.00	0.00
ATOM	7277	H	PHE	X	479	43.125	43.842	24.352	0.00	0.00
ATOM	7278	CA	PHE	X	479	41.163	44.268	25.002	0.00	0.00
ATOM	7279	HA	PHE	X	479	40.331	44.138	24.310	0.00	0.00
ATOM	7280	CB	PHE	X	479	41.495	43.120	25.958	0.00	0.00
ATOM	7281	HB2	PHE	X	479	41.615	42.205	25.378	0.00	0.00
ATOM	7282	HB3	PHE	X	479	42.475	43.342	26.381	0.00	0.00
ATOM	7283	CG	PHE	X	479	40.409	42.933	27.077	0.00	0.00
ATOM	7284	CD1	PHE	X	479	39.394	42.007	26.868	0.00	0.00
ATOM	7285	HD1	PHE	X	479	39.306	41.486	25.926	0.00	0.00
ATOM	7286	CE1	PHE	X	479	38.266	42.030	27.739	0.00	0.00
ATOM	7287	HE1	PHE	X	479	37.543	41.230	27.664	0.00	0.00
ATOM	7288	CZ	PHE	X	479	38.188	42.912	28.806	0.00	0.00
ATOM	7289	HZ	PHE	X	479	37.377	42.932	29.519	0.00	0.00
ATOM	7290	CE2	PHE	X	479	39.247	43.788	29.014	0.00	0.00
ATOM	7291	HE2	PHE	X	479	39.301	44.351	29.934	0.00	0.00
ATOM	7292	CD2	PHE	X	479	40.418	43.787	28.187	0.00	0.00
ATOM	7293	HD2	PHE	X	479	41.253	44.418	28.454	0.00	0.00
ATOM	7294	C	PHE	X	479	40.871	45.624	25.668	0.00	0.00
ATOM	7295	O	PHE	X	479	39.664	45.812	25.854	0.00	0.00
ATOM	7296	N	ALA	X	480	41.802	46.528	25.981	0.00	0.00
ATOM	7297	H	ALA	X	480	42.774	46.325	25.798	0.00	0.00
ATOM	7298	CA	ALA	X	480	41.471	47.884	26.492	0.00	0.00
ATOM	7299	HA	ALA	X	480	40.767	47.745	27.312	0.00	0.00
ATOM	7300	CB	ALA	X	480	42.671	48.567	27.097	0.00	0.00
ATOM	7301	HB1	ALA	X	480	42.473	49.476	27.664	0.00	0.00
ATOM	7302	HB2	ALA	X	480	43.105	47.873	27.816	0.00	0.00
ATOM	7303	HB3	ALA	X	480	43.426	48.638	26.314	0.00	0.00
ATOM	7304	C	ALA	X	480	40.724	48.787	25.479	0.00	0.00
ATOM	7305	O	ALA	X	480	39.831	49.563	25.881	0.00	0.00
ATOM	7306	N	ARG	X	481	41.003	48.596	24.170	0.00	0.00
ATOM	7307	H	ARG	X	481	41.590	47.788	24.019	0.00	0.00
ATOM	7308	CA	ARG	X	481	40.366	49.193	22.966	0.00	0.00
ATOM	7309	HA	ARG	X	481	40.241	50.253	23.187	0.00	0.00
ATOM	7310	CB	ARG	X	481	41.305	48.961	21.761	0.00	0.00
ATOM	7311	HB2	ARG	X	481	41.625	47.920	21.742	0.00	0.00
ATOM	7312	HB3	ARG	X	481	40.793	49.256	20.845	0.00	0.00
ATOM	7313	CG	ARG	X	481	42.549	49.827	22.015	0.00	0.00
ATOM	7314	HG2	ARG	X	481	42.383	50.871	21.751	0.00	0.00
ATOM	7315	HG3	ARG	X	481	42.830	49.874	23.067	0.00	0.00
ATOM	7316	CD	ARG	X	481	43.692	49.269	21.139	0.00	0.00
ATOM	7317	HD2	ARG	X	481	44.000	48.317	21.572	0.00	0.00
ATOM	7318	HD3	ARG	X	481	43.338	48.952	20.158	0.00	0.00
ATOM	7319	NE	ARG	X	481	44.807	50.224	20.999	0.00	0.00
ATOM	7320	HE	ARG	X	481	44.618	51.183	21.254	0.00	0.00
ATOM	7321	CZ	ARG	X	481	46.067	49.924	20.611	0.00	0.00

ATOM	7322	NH1	ARG	X	481	46.378	48.665	20.376	0.00	0.00
ATOM	7323	HH11	ARG	X	481	45.753	47.874	20.433	0.00	0.00
ATOM	7324	HH12	ARG	X	481	47.301	48.534	19.988	0.00	0.00
ATOM	7325	NH2	ARG	X	481	47.040	50.775	20.581	0.00	0.00
ATOM	7326	HH21	ARG	X	481	46.763	51.728	20.771	0.00	0.00
ATOM	7327	HH22	ARG	X	481	47.973	50.393	20.531	0.00	0.00
ATOM	7328	C	ARG	X	481	38.965	48.647	22.691	0.00	0.00
ATOM	7329	O	ARG	X	481	37.979	49.369	22.890	0.00	0.00
ATOM	7330	N	THR	X	482	38.844	47.402	22.266	0.00	0.00
ATOM	7331	H	THR	X	482	39.618	46.764	22.147	0.00	0.00
ATOM	7332	CA	THR	X	482	37.602	46.843	21.677	0.00	0.00
ATOM	7333	HA	THR	X	482	36.915	47.658	21.449	0.00	0.00
ATOM	7334	CB	THR	X	482	37.864	45.985	20.419	0.00	0.00
ATOM	7335	HB	THR	X	482	36.935	45.540	20.061	0.00	0.00
ATOM	7336	CG2	THR	X	482	38.406	46.852	19.264	0.00	0.00
ATOM	7337	HG21	THR	X	482	38.541	46.310	18.328	0.00	0.00
ATOM	7338	HG22	THR	X	482	37.803	47.748	19.110	0.00	0.00
ATOM	7339	HG23	THR	X	482	39.411	47.123	19.585	0.00	0.00
ATOM	7340	OG1	THR	X	482	38.751	45.035	20.845	0.00	0.00
ATOM	7341	HG1	THR	X	482	38.577	44.280	20.278	0.00	0.00
ATOM	7342	C	THR	X	482	36.908	45.970	22.766	0.00	0.00
ATOM	7343	O	THR	X	482	35.671	45.825	22.716	0.00	0.00
ATOM	7344	N	GLY	X	483	37.584	45.441	23.771	0.00	0.00
ATOM	7345	H	GLY	X	483	38.572	45.653	23.785	0.00	0.00
ATOM	7346	CA	GLY	X	483	37.014	44.294	24.579	0.00	0.00
ATOM	7347	HA2	GLY	X	483	37.374	44.460	25.646	0.00	0.00
ATOM	7348	HA3	GLY	X	483	35.893	44.303	24.657	0.00	0.00
ATOM	7349	C	GLY	X	483	37.477	42.918	24.120	0.00	0.00
ATOM	7350	O	GLY	X	483	36.978	41.957	24.683	0.00	0.00
ATOM	7351	N	ASP	X	484	38.347	42.736	23.094	0.00	0.00
ATOM	7352	H	ASP	X	484	38.736	43.560	22.660	0.00	0.00
ATOM	7353	CA	ASP	X	484	38.777	41.471	22.490	0.00	0.00
ATOM	7354	HA	ASP	X	484	38.776	40.716	23.276	0.00	0.00
ATOM	7355	CB	ASP	X	484	37.762	40.888	21.423	0.00	0.00
ATOM	7356	HB2	ASP	X	484	38.070	39.904	21.068	0.00	0.00
ATOM	7357	HB3	ASP	X	484	36.942	40.635	22.095	0.00	0.00
ATOM	7358	CG	ASP	X	484	37.206	41.915	20.374	0.00	0.00
ATOM	7359	OD1	ASP	X	484	37.959	42.400	19.451	0.00	0.00
ATOM	7360	OD2	ASP	X	484	35.994	42.249	20.612	0.00	0.00
ATOM	7361	C	ASP	X	484	40.249	41.626	21.988	0.00	0.00
ATOM	7362	O	ASP	X	484	40.627	42.706	21.582	0.00	0.00
ATOM	7363	N	PRO	X	485	41.086	40.601	22.110	0.00	0.00
ATOM	7364	CD	PRO	X	485	40.841	39.301	22.851	0.00	0.00
ATOM	7365	HD2	PRO	X	485	40.113	38.659	22.354	0.00	0.00
ATOM	7366	HD3	PRO	X	485	40.759	39.454	23.927	0.00	0.00
ATOM	7367	CG	PRO	X	485	42.246	38.633	22.786	0.00	0.00
ATOM	7368	HG2	PRO	X	485	42.507	38.202	21.819	0.00	0.00
ATOM	7369	HG3	PRO	X	485	42.536	37.938	23.575	0.00	0.00
ATOM	7370	CB	PRO	X	485	43.188	39.764	22.928	0.00	0.00
ATOM	7371	HB2	PRO	X	485	44.206	39.579	22.586	0.00	0.00
ATOM	7372	HB3	PRO	X	485	43.232	40.048	23.979	0.00	0.00
ATOM	7373	CA	PRO	X	485	42.583	40.844	22.018	0.00	0.00
ATOM	7374	HA	PRO	X	485	42.742	41.857	22.387	0.00	0.00
ATOM	7375	C	PRO	X	485	43.116	40.665	20.568	0.00	0.00
ATOM	7376	O	PRO	X	485	44.301	40.953	20.463	0.00	0.00
ATOM	7377	N	ASN	X	486	42.326	40.293	19.553	0.00	0.00
ATOM	7378	H	ASN	X	486	41.410	40.008	19.868	0.00	0.00
ATOM	7379	CA	ASN	X	486	42.697	40.295	18.141	0.00	0.00
ATOM	7380	HA	ASN	X	486	43.575	39.664	17.999	0.00	0.00
ATOM	7381	CB	ASN	X	486	41.563	39.641	17.323	0.00	0.00
ATOM	7382	HB2	ASN	X	486	41.834	39.625	16.268	0.00	0.00
ATOM	7383	HB3	ASN	X	486	41.349	38.621	17.643	0.00	0.00
ATOM	7384	CG	ASN	X	486	40.313	40.488	17.296	0.00	0.00
ATOM	7385	OD1	ASN	X	486	40.223	41.393	16.468	0.00	0.00
ATOM	7386	ND2	ASN	X	486	39.422	40.339	18.257	0.00	0.00
ATOM	7387	HD21	ASN	X	486	38.605	40.917	18.129	0.00	0.00
ATOM	7388	HD22	ASN	X	486	39.427	39.553	18.891	0.00	0.00
ATOM	7389	C	ASN	X	486	43.142	41.674	17.599	0.00	0.00
ATOM	7390	O	ASN	X	486	43.059	42.694	18.248	0.00	0.00
ATOM	7391	N	GLU	X	487	43.499	41.751	16.309	0.00	0.00

ATOM	7392	H	GLU	X	487	43.744	40.893	15.835	0.00	0.00
ATOM	7393	CA	GLU	X	487	43.542	42.879	15.370	0.00	0.00
ATOM	7394	HA	GLU	X	487	43.809	43.821	15.849	0.00	0.00
ATOM	7395	CB	GLU	X	487	44.685	42.765	14.347	0.00	0.00
ATOM	7396	HB2	GLU	X	487	44.553	41.776	13.908	0.00	0.00
ATOM	7397	HB3	GLU	X	487	44.560	43.530	13.581	0.00	0.00
ATOM	7398	CG	GLU	X	487	46.118	42.870	14.996	0.00	0.00
ATOM	7399	HG2	GLU	X	487	46.223	42.048	15.705	0.00	0.00
ATOM	7400	HG3	GLU	X	487	46.923	42.848	14.261	0.00	0.00
ATOM	7401	CD	GLU	X	487	46.358	44.188	15.797	0.00	0.00
ATOM	7402	OE1	GLU	X	487	46.674	44.192	16.998	0.00	0.00
ATOM	7403	OE2	GLU	X	487	46.230	45.286	15.198	0.00	0.00
ATOM	7404	C	GLU	X	487	42.204	43.043	14.647	0.00	0.00
ATOM	7405	O	GLU	X	487	41.860	42.026	14.002	0.00	0.00
ATOM	7406	N	PRO	X	488	41.454	44.141	14.729	0.00	0.00
ATOM	7407	CD	PRO	X	488	41.626	45.286	15.552	0.00	0.00
ATOM	7408	HD2	PRO	X	488	42.446	45.938	15.251	0.00	0.00
ATOM	7409	HD3	PRO	X	488	41.936	45.058	16.572	0.00	0.00
ATOM	7410	CG	PRO	X	488	40.317	46.070	15.577	0.00	0.00
ATOM	7411	HG2	PRO	X	488	40.498	47.144	15.533	0.00	0.00
ATOM	7412	HG3	PRO	X	488	39.715	45.817	16.449	0.00	0.00
ATOM	7413	CB	PRO	X	488	39.560	45.726	14.253	0.00	0.00
ATOM	7414	HB2	PRO	X	488	40.018	46.270	13.426	0.00	0.00
ATOM	7415	HB3	PRO	X	488	38.486	45.909	14.288	0.00	0.00
ATOM	7416	CA	PRO	X	488	40.100	44.250	14.111	0.00	0.00
ATOM	7417	HA	PRO	X	488	39.509	43.543	14.694	0.00	0.00
ATOM	7418	C	PRO	X	488	40.023	43.776	12.684	0.00	0.00
ATOM	7419	O	PRO	X	488	39.097	42.965	12.371	0.00	0.00
ATOM	7420	N	ARG	X	489	40.905	44.242	11.805	0.00	0.00
ATOM	7421	H	ARG	X	489	41.535	44.938	12.176	0.00	0.00
ATOM	7422	CA	ARG	X	489	40.928	43.949	10.302	0.00	0.00
ATOM	7423	HA	ARG	X	489	40.008	44.383	9.910	0.00	0.00
ATOM	7424	CB	ARG	X	489	41.989	44.814	9.542	0.00	0.00
ATOM	7425	HB2	ARG	X	489	41.897	44.580	8.482	0.00	0.00
ATOM	7426	HB3	ARG	X	489	41.734	45.866	9.674	0.00	0.00
ATOM	7427	CG	ARG	X	489	43.461	44.505	10.026	0.00	0.00
ATOM	7428	HG2	ARG	X	489	43.424	44.362	11.106	0.00	0.00
ATOM	7429	HG3	ARG	X	489	43.911	43.633	9.550	0.00	0.00
ATOM	7430	CD	ARG	X	489	44.511	45.620	9.722	0.00	0.00
ATOM	7431	HD2	ARG	X	489	44.726	45.669	8.654	0.00	0.00
ATOM	7432	HD3	ARG	X	489	43.952	46.513	10.003	0.00	0.00
ATOM	7433	NE	ARG	X	489	45.784	45.461	10.354	0.00	0.00
ATOM	7434	HE	ARG	X	489	46.534	45.361	9.686	0.00	0.00
ATOM	7435	CZ	ARG	X	489	46.172	45.581	11.602	0.00	0.00
ATOM	7436	NH1	ARG	X	489	47.464	45.480	11.850	0.00	0.00
ATOM	7437	HH11	ARG	X	489	48.146	45.411	11.108	0.00	0.00
ATOM	7438	HH12	ARG	X	489	47.847	45.558	12.782	0.00	0.00
ATOM	7439	NH2	ARG	X	489	45.272	45.665	12.591	0.00	0.00
ATOM	7440	HH21	ARG	X	489	44.321	45.873	12.320	0.00	0.00
ATOM	7441	HH22	ARG	X	489	45.608	45.566	13.538	0.00	0.00
ATOM	7442	C	ARG	X	489	41.008	42.465	9.966	0.00	0.00
ATOM	7443	O	ARG	X	489	40.935	42.145	8.748	0.00	0.00
ATOM	7444	N	ASP	X	490	41.395	41.586	10.813	0.00	0.00
ATOM	7445	H	ASP	X	490	41.417	41.959	11.751	0.00	0.00
ATOM	7446	CA	ASP	X	490	41.397	40.111	10.600	0.00	0.00
ATOM	7447	HA	ASP	X	490	41.555	39.597	11.548	0.00	0.00
ATOM	7448	CB	ASP	X	490	39.976	39.654	10.116	0.00	0.00
ATOM	7449	HB2	ASP	X	490	39.290	40.150	10.803	0.00	0.00
ATOM	7450	HB3	ASP	X	490	39.918	39.959	9.071	0.00	0.00
ATOM	7451	CG	ASP	X	490	39.877	38.099	10.080	0.00	0.00
ATOM	7452	OD1	ASP	X	490	39.142	37.677	10.986	0.00	0.00
ATOM	7453	OD2	ASP	X	490	40.378	37.420	9.145	0.00	0.00
ATOM	7454	C	ASP	X	490	42.596	39.749	9.564	0.00	0.00
ATOM	7455	O	ASP	X	490	42.281	39.404	8.447	0.00	0.00
ATOM	7456	N	PRO	X	491	43.847	39.863	9.980	0.00	0.00
ATOM	7457	CD	PRO	X	491	44.231	40.130	11.377	0.00	0.00
ATOM	7458	HD2	PRO	X	491	43.782	39.305	11.932	0.00	0.00
ATOM	7459	HD3	PRO	X	491	43.811	41.100	11.642	0.00	0.00
ATOM	7460	CG	PRO	X	491	45.730	40.188	11.368	0.00	0.00
ATOM	7461	HG2	PRO	X	491	45.943	39.275	11.925	0.00	0.00

ATOM	7462	HG3	PRO	X	491	46.174	41.022	11.912	0.00	0.00
ATOM	7463	CB	PRO	X	491	46.182	40.074	9.928	0.00	0.00
ATOM	7464	HB2	PRO	X	491	47.099	39.523	9.721	0.00	0.00
ATOM	7465	HB3	PRO	X	491	46.242	41.057	9.460	0.00	0.00
ATOM	7466	CA	PRO	X	491	44.995	39.459	9.177	0.00	0.00
ATOM	7467	HA	PRO	X	491	44.931	39.887	8.177	0.00	0.00
ATOM	7468	C	PRO	X	491	45.144	37.893	9.138	0.00	0.00
ATOM	7469	O	PRO	X	491	44.698	37.124	10.014	0.00	0.00
ATOM	7470	N	LYS	X	492	45.823	37.417	8.108	0.00	0.00
ATOM	7471	H	LYS	X	492	46.220	38.103	7.482	0.00	0.00
ATOM	7472	CA	LYS	X	492	46.133	35.977	7.967	0.00	0.00
ATOM	7473	HA	LYS	X	492	45.226	35.376	8.024	0.00	0.00
ATOM	7474	CB	LYS	X	492	46.810	35.606	6.580	0.00	0.00
ATOM	7475	HB2	LYS	X	492	47.859	35.903	6.574	0.00	0.00
ATOM	7476	HB3	LYS	X	492	46.734	34.551	6.318	0.00	0.00
ATOM	7477	CG	LYS	X	492	46.259	36.355	5.376	0.00	0.00
ATOM	7478	HG2	LYS	X	492	45.185	36.167	5.400	0.00	0.00
ATOM	7479	HG3	LYS	X	492	46.386	37.421	5.563	0.00	0.00
ATOM	7480	CD	LYS	X	492	46.899	35.871	4.032	0.00	0.00
ATOM	7481	HD2	LYS	X	492	47.927	36.218	3.933	0.00	0.00
ATOM	7482	HD3	LYS	X	492	46.917	34.783	4.102	0.00	0.00
ATOM	7483	CE	LYS	X	492	46.071	36.358	2.907	0.00	0.00
ATOM	7484	HE2	LYS	X	492	45.103	35.857	2.878	0.00	0.00
ATOM	7485	HE3	LYS	X	492	45.798	37.410	2.977	0.00	0.00
ATOM	7486	NZ	LYS	X	492	46.716	36.166	1.602	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	46.826	35.208	1.302	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	46.274	36.561	0.784	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	47.653	36.538	1.533	0.00	0.00
ATOM	7490	C	LYS	X	492	46.900	35.415	9.197	0.00	0.00
ATOM	7491	O	LYS	X	492	46.779	34.254	9.559	0.00	0.00
ATOM	7492	N	ALA	X	493	47.705	36.255	9.824	0.00	0.00
ATOM	7493	H	ALA	X	493	47.941	37.071	9.277	0.00	0.00
ATOM	7494	CA	ALA	X	493	48.319	36.148	11.192	0.00	0.00
ATOM	7495	HA	ALA	X	493	49.186	35.535	10.945	0.00	0.00
ATOM	7496	CB	ALA	X	493	48.919	37.546	11.582	0.00	0.00
ATOM	7497	HB1	ALA	X	493	48.132	38.294	11.484	0.00	0.00
ATOM	7498	HB2	ALA	X	493	49.371	37.632	12.571	0.00	0.00
ATOM	7499	HB3	ALA	X	493	49.688	37.801	10.853	0.00	0.00
ATOM	7500	C	ALA	X	493	47.443	35.575	12.341	0.00	0.00
ATOM	7501	O	ALA	X	493	46.261	35.926	12.392	0.00	0.00
ATOM	7502	N	PRO	X	494	47.997	34.697	13.269	0.00	0.00
ATOM	7503	CD	PRO	X	494	49.452	34.393	13.343	0.00	0.00
ATOM	7504	HD2	PRO	X	494	49.932	35.367	13.248	0.00	0.00
ATOM	7505	HD3	PRO	X	494	49.624	33.523	12.710	0.00	0.00
ATOM	7506	CG	PRO	X	494	49.578	34.009	14.853	0.00	0.00
ATOM	7507	HG2	PRO	X	494	49.702	34.893	15.478	0.00	0.00
ATOM	7508	HG3	PRO	X	494	50.398	33.294	14.932	0.00	0.00
ATOM	7509	CB	PRO	X	494	48.223	33.328	15.190	0.00	0.00
ATOM	7510	HB2	PRO	X	494	48.102	33.238	16.270	0.00	0.00
ATOM	7511	HB3	PRO	X	494	48.345	32.356	14.712	0.00	0.00
ATOM	7512	CA	PRO	X	494	47.224	34.134	14.424	0.00	0.00
ATOM	7513	HA	PRO	X	494	46.569	33.383	13.983	0.00	0.00
ATOM	7514	C	PRO	X	494	46.513	35.193	15.308	0.00	0.00
ATOM	7515	O	PRO	X	494	47.112	36.227	15.646	0.00	0.00
ATOM	7516	N	GLN	X	495	45.252	34.871	15.617	0.00	0.00
ATOM	7517	H	GLN	X	495	44.843	34.007	15.291	0.00	0.00
ATOM	7518	CA	GLN	X	495	44.515	35.683	16.602	0.00	0.00
ATOM	7519	HA	GLN	X	495	45.157	36.390	17.130	0.00	0.00
ATOM	7520	CB	GLN	X	495	43.322	36.347	16.006	0.00	0.00
ATOM	7521	HB2	GLN	X	495	42.493	35.644	15.927	0.00	0.00
ATOM	7522	HB3	GLN	X	495	42.949	37.079	16.722	0.00	0.00
ATOM	7523	CG	GLN	X	495	43.618	37.067	14.673	0.00	0.00
ATOM	7524	HG2	GLN	X	495	44.109	36.394	13.970	0.00	0.00
ATOM	7525	HG3	GLN	X	495	42.700	37.518	14.296	0.00	0.00
ATOM	7526	CD	GLN	X	495	44.587	38.263	14.777	0.00	0.00
ATOM	7527	OE1	GLN	X	495	44.439	39.110	15.646	0.00	0.00
ATOM	7528	NE2	GLN	X	495	45.659	38.255	13.974	0.00	0.00
ATOM	7529	HE21	GLN	X	495	46.303	39.030	14.051	0.00	0.00
ATOM	7530	HE22	GLN	X	495	45.819	37.520	13.300	0.00	0.00
ATOM	7531	C	GLN	X	495	44.127	34.761	17.757	0.00	0.00

ATOM	7532	O	GLN	X	495	43.804	33.576	17.595	0.00	0.00
ATOM	7533	N	TRP	X	496	44.143	35.337	18.956	0.00	0.00
ATOM	7534	H	TRP	X	496	44.253	36.341	18.950	0.00	0.00
ATOM	7535	CA	TRP	X	496	43.773	34.722	20.293	0.00	0.00
ATOM	7536	HA	TRP	X	496	44.328	33.801	20.469	0.00	0.00
ATOM	7537	CB	TRP	X	496	44.320	35.553	21.473	0.00	0.00
ATOM	7538	HB2	TRP	X	496	45.409	35.535	21.429	0.00	0.00
ATOM	7539	HB3	TRP	X	496	43.977	36.583	21.377	0.00	0.00
ATOM	7540	CG	TRP	X	496	44.021	35.278	22.888	0.00	0.00
ATOM	7541	CD1	TRP	X	496	43.045	34.389	23.345	0.00	0.00
ATOM	7542	HD1	TRP	X	496	42.409	33.696	22.814	0.00	0.00
ATOM	7543	NE1	TRP	X	496	43.134	34.479	24.745	0.00	0.00
ATOM	7544	HE1	TRP	X	496	42.673	33.802	25.336	0.00	0.00
ATOM	7545	CE2	TRP	X	496	43.926	35.417	25.234	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	44.169	35.937	26.512	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	43.572	35.629	27.358	0.00	0.00
ATOM	7548	CH2	TRP	X	496	45.362	36.724	26.677	0.00	0.00
ATOM	7549	HH2	TRP	X	496	45.609	36.941	27.706	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	46.102	37.200	25.530	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	46.913	37.884	25.736	0.00	0.00
ATOM	7552	CE3	TRP	X	496	45.650	36.776	24.259	0.00	0.00
ATOM	7553	HE3	TRP	X	496	46.104	37.226	23.388	0.00	0.00
ATOM	7554	CD2	TRP	X	496	44.613	35.900	24.053	0.00	0.00
ATOM	7555	C	TRP	X	496	42.220	34.475	20.354	0.00	0.00
ATOM	7556	O	TRP	X	496	41.512	35.463	20.503	0.00	0.00
ATOM	7557	N	PRO	X	497	41.754	33.212	20.311	0.00	0.00
ATOM	7558	CD	PRO	X	497	42.431	31.956	20.177	0.00	0.00
ATOM	7559	HD2	PRO	X	497	42.925	31.667	21.105	0.00	0.00
ATOM	7560	HD3	PRO	X	497	43.040	32.006	19.275	0.00	0.00
ATOM	7561	CG	PRO	X	497	41.378	30.862	19.974	0.00	0.00
ATOM	7562	HG2	PRO	X	497	41.118	30.520	20.975	0.00	0.00
ATOM	7563	HG3	PRO	X	497	41.734	30.090	19.292	0.00	0.00
ATOM	7564	CB	PRO	X	497	40.187	31.681	19.513	0.00	0.00
ATOM	7565	HB2	PRO	X	497	39.266	31.115	19.654	0.00	0.00
ATOM	7566	HB3	PRO	X	497	40.339	31.788	18.439	0.00	0.00
ATOM	7567	CA	PRO	X	497	40.294	32.987	20.242	0.00	0.00
ATOM	7568	HA	PRO	X	497	39.860	33.725	19.567	0.00	0.00
ATOM	7569	C	PRO	X	497	39.506	32.959	21.507	0.00	0.00
ATOM	7570	O	PRO	X	497	40.067	32.820	22.590	0.00	0.00
ATOM	7571	N	PRO	X	498	38.140	33.067	21.422	0.00	0.00
ATOM	7572	CD	PRO	X	498	37.383	33.240	20.220	0.00	0.00
ATOM	7573	HD2	PRO	X	498	37.335	32.341	19.605	0.00	0.00
ATOM	7574	HD3	PRO	X	498	37.767	34.052	19.602	0.00	0.00
ATOM	7575	CG	PRO	X	498	35.925	33.555	20.662	0.00	0.00
ATOM	7576	HG2	PRO	X	498	35.250	32.733	20.420	0.00	0.00
ATOM	7577	HG3	PRO	X	498	35.598	34.505	20.241	0.00	0.00
ATOM	7578	CB	PRO	X	498	35.925	33.775	22.116	0.00	0.00
ATOM	7579	HB2	PRO	X	498	35.084	33.208	22.515	0.00	0.00
ATOM	7580	HB3	PRO	X	498	35.941	34.843	22.335	0.00	0.00
ATOM	7581	CA	PRO	X	498	37.258	33.268	22.605	0.00	0.00
ATOM	7582	HA	PRO	X	498	37.694	33.963	23.323	0.00	0.00
ATOM	7583	C	PRO	X	498	37.066	31.980	23.486	0.00	0.00
ATOM	7584	O	PRO	X	498	37.196	30.824	23.041	0.00	0.00
ATOM	7585	N	TYR	X	499	36.751	32.201	24.815	0.00	0.00
ATOM	7586	H	TYR	X	499	36.772	33.187	25.035	0.00	0.00
ATOM	7587	CA	TYR	X	499	36.464	31.192	25.877	0.00	0.00
ATOM	7588	HA	TYR	X	499	36.809	30.191	25.618	0.00	0.00
ATOM	7589	CB	TYR	X	499	37.156	31.542	27.187	0.00	0.00
ATOM	7590	HB2	TYR	X	499	38.202	31.759	26.973	0.00	0.00
ATOM	7591	HB3	TYR	X	499	36.743	32.466	27.591	0.00	0.00
ATOM	7592	CG	TYR	X	499	37.104	30.528	28.284	0.00	0.00
ATOM	7593	CD1	TYR	X	499	36.017	30.300	29.126	0.00	0.00
ATOM	7594	HD1	TYR	X	499	35.131	30.852	28.851	0.00	0.00
ATOM	7595	CE1	TYR	X	499	36.133	29.677	30.398	0.00	0.00
ATOM	7596	HE1	TYR	X	499	35.335	29.682	31.125	0.00	0.00
ATOM	7597	CZ	TYR	X	499	37.309	28.978	30.707	0.00	0.00
ATOM	7598	OH	TYR	X	499	37.412	28.185	31.808	0.00	0.00
ATOM	7599	HH	TYR	X	499	36.556	28.079	32.228	0.00	0.00
ATOM	7600	CE2	TYR	X	499	38.293	28.903	29.705	0.00	0.00
ATOM	7601	HE2	TYR	X	499	39.161	28.265	29.793	0.00	0.00

ATOM	7602	CD2	TYR	X	499	38.229	29.735	28.596	0.00	0.00
ATOM	7603	HD2	TYR	X	499	39.054	29.785	27.900	0.00	0.00
ATOM	7604	C	TYR	X	499	34.978	31.149	26.113	0.00	0.00
ATOM	7605	O	TYR	X	499	34.340	32.131	26.518	0.00	0.00
ATOM	7606	N	THR	X	500	34.333	30.005	25.812	0.00	0.00
ATOM	7607	H	THR	X	500	34.892	29.213	25.530	0.00	0.00
ATOM	7608	CA	THR	X	500	32.867	29.793	26.020	0.00	0.00
ATOM	7609	HA	THR	X	500	32.472	30.769	26.302	0.00	0.00
ATOM	7610	CB	THR	X	500	32.223	29.229	24.701	0.00	0.00
ATOM	7611	HB	THR	X	500	31.148	29.199	24.877	0.00	0.00
ATOM	7612	CG2	THR	X	500	32.471	30.025	23.399	0.00	0.00
ATOM	7613	HG21	THR	X	500	32.058	29.383	22.621	0.00	0.00
ATOM	7614	HG22	THR	X	500	31.906	30.953	23.492	0.00	0.00
ATOM	7615	HG23	THR	X	500	33.522	30.171	23.152	0.00	0.00
ATOM	7616	OG1	THR	X	500	32.686	27.910	24.605	0.00	0.00
ATOM	7617	HG1	THR	X	500	32.388	27.601	23.746	0.00	0.00
ATOM	7618	C	THR	X	500	32.694	28.757	27.174	0.00	0.00
ATOM	7619	O	THR	X	500	33.554	27.988	27.472	0.00	0.00
ATOM	7620	N	ALA	X	501	31.555	28.876	27.865	0.00	0.00
ATOM	7621	H	ALA	X	501	30.954	29.664	27.671	0.00	0.00
ATOM	7622	CA	ALA	X	501	31.277	28.061	29.097	0.00	0.00
ATOM	7623	HA	ALA	X	501	32.032	28.446	29.783	0.00	0.00
ATOM	7624	CB	ALA	X	501	29.933	28.498	29.645	0.00	0.00
ATOM	7625	HB1	ALA	X	501	29.607	28.042	30.580	0.00	0.00
ATOM	7626	HB2	ALA	X	501	29.853	29.579	29.754	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.148	28.224	28.940	0.00	0.00
ATOM	7628	C	ALA	X	501	31.436	26.564	28.989	0.00	0.00
ATOM	7629	O	ALA	X	501	31.946	26.007	29.928	0.00	0.00
ATOM	7630	N	GLY	X	502	31.177	25.886	27.920	0.00	0.00
ATOM	7631	H	GLY	X	502	30.830	26.362	27.099	0.00	0.00
ATOM	7632	CA	GLY	X	502	31.451	24.439	27.732	0.00	0.00
ATOM	7633	HA2	GLY	X	502	31.187	23.923	28.664	0.00	0.00
ATOM	7634	HA3	GLY	X	502	30.741	23.872	27.076	0.00	0.00
ATOM	7635	C	GLY	X	502	32.827	24.179	27.252	0.00	0.00
ATOM	7636	O	GLY	X	502	33.538	23.435	27.908	0.00	0.00
ATOM	7637	N	ALA	X	503	33.300	24.748	26.131	0.00	0.00
ATOM	7638	H	ALA	X	503	32.663	25.374	25.659	0.00	0.00
ATOM	7639	CA	ALA	X	503	34.559	24.376	25.529	0.00	0.00
ATOM	7640	HA	ALA	X	503	34.633	23.289	25.498	0.00	0.00
ATOM	7641	CB	ALA	X	503	34.549	24.813	24.114	0.00	0.00
ATOM	7642	HB1	ALA	X	503	35.447	24.337	23.722	0.00	0.00
ATOM	7643	HB2	ALA	X	503	33.627	24.433	23.673	0.00	0.00
ATOM	7644	HB3	ALA	X	503	34.505	25.898	24.024	0.00	0.00
ATOM	7645	C	ALA	X	503	35.817	24.976	26.214	0.00	0.00
ATOM	7646	O	ALA	X	503	36.915	24.348	26.120	0.00	0.00
ATOM	7647	N	GLN	X	504	35.760	26.103	26.949	0.00	0.00
ATOM	7648	H	GLN	X	504	34.864	26.569	26.921	0.00	0.00
ATOM	7649	CA	GLN	X	504	36.726	26.597	27.866	0.00	0.00
ATOM	7650	HA	GLN	X	504	36.397	27.560	28.258	0.00	0.00
ATOM	7651	CB	GLN	X	504	36.713	25.763	29.188	0.00	0.00
ATOM	7652	HB2	GLN	X	504	36.994	24.743	28.927	0.00	0.00
ATOM	7653	HB3	GLN	X	504	37.513	26.137	29.827	0.00	0.00
ATOM	7654	CG	GLN	X	504	35.292	25.958	29.907	0.00	0.00
ATOM	7655	HG2	GLN	X	504	35.220	26.958	30.336	0.00	0.00
ATOM	7656	HG3	GLN	X	504	34.528	25.878	29.135	0.00	0.00
ATOM	7657	CD	GLN	X	504	35.030	25.059	31.096	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.961	24.391	31.610	0.00	0.00
ATOM	7659	NE2	GLN	X	504	33.808	24.951	31.484	0.00	0.00
ATOM	7660	HE21	GLN	X	504	33.521	24.219	32.117	0.00	0.00
ATOM	7661	HE22	GLN	X	504	33.097	25.372	30.904	0.00	0.00
ATOM	7662	C	GLN	X	504	38.118	26.616	27.214	0.00	0.00
ATOM	7663	O	GLN	X	504	39.138	26.090	27.682	0.00	0.00
ATOM	7664	N	GLN	X	505	38.217	27.254	26.068	0.00	0.00
ATOM	7665	H	GLN	X	505	37.396	27.652	25.635	0.00	0.00
ATOM	7666	CA	GLN	X	505	39.341	27.345	25.114	0.00	0.00
ATOM	7667	HA	GLN	X	505	39.867	26.395	25.021	0.00	0.00
ATOM	7668	CB	GLN	X	505	38.811	27.690	23.741	0.00	0.00
ATOM	7669	HB2	GLN	X	505	38.071	26.928	23.496	0.00	0.00
ATOM	7670	HB3	GLN	X	505	38.224	28.605	23.814	0.00	0.00
ATOM	7671	CG	GLN	X	505	39.936	27.769	22.699	0.00	0.00

ATOM	7672	HG2	GLN	X	505	40.528	28.653	22.937	0.00	0.00
ATOM	7673	HG3	GLN	X	505	40.615	26.920	22.624	0.00	0.00
ATOM	7674	CD	GLN	X	505	39.251	27.854	21.358	0.00	0.00
ATOM	7675	OE1	GLN	X	505	39.450	27.034	20.500	0.00	0.00
ATOM	7676	NE2	GLN	X	505	38.685	28.962	21.033	0.00	0.00
ATOM	7677	HE21	GLN	X	505	38.355	29.002	20.079	0.00	0.00
ATOM	7678	HE22	GLN	X	505	38.566	29.700	21.712	0.00	0.00
ATOM	7679	C	GLN	X	505	40.281	28.432	25.626	0.00	0.00
ATOM	7680	O	GLN	X	505	39.956	29.575	25.686	0.00	0.00
ATOM	7681	N	TYR	X	506	41.512	28.123	25.880	0.00	0.00
ATOM	7682	H	TYR	X	506	41.821	27.168	25.774	0.00	0.00
ATOM	7683	CA	TYR	X	506	42.584	28.962	26.453	0.00	0.00
ATOM	7684	HA	TYR	X	506	42.176	29.972	26.499	0.00	0.00
ATOM	7685	CB	TYR	X	506	42.886	28.453	27.847	0.00	0.00
ATOM	7686	HB2	TYR	X	506	43.443	29.245	28.348	0.00	0.00
ATOM	7687	HB3	TYR	X	506	41.995	28.283	28.452	0.00	0.00
ATOM	7688	CG	TYR	X	506	43.633	27.146	27.943	0.00	0.00
ATOM	7689	CD1	TYR	X	506	42.999	25.973	27.741	0.00	0.00
ATOM	7690	HD1	TYR	X	506	41.977	25.924	27.396	0.00	0.00
ATOM	7691	CE1	TYR	X	506	43.685	24.803	28.089	0.00	0.00
ATOM	7692	HE1	TYR	X	506	43.171	23.902	27.788	0.00	0.00
ATOM	7693	CZ	TYR	X	506	44.938	24.748	28.641	0.00	0.00
ATOM	7694	OH	TYR	X	506	45.551	23.615	29.012	0.00	0.00
ATOM	7695	HH	TYR	X	506	46.445	23.789	29.316	0.00	0.00
ATOM	7696	CE2	TYR	X	506	45.576	25.967	28.847	0.00	0.00
ATOM	7697	HE2	TYR	X	506	46.570	25.931	29.267	0.00	0.00
ATOM	7698	CD2	TYR	X	506	44.924	27.168	28.576	0.00	0.00
ATOM	7699	HD2	TYR	X	506	45.460	28.095	28.716	0.00	0.00
ATOM	7700	C	TYR	X	506	43.843	29.006	25.588	0.00	0.00
ATOM	7701	O	TYR	X	506	44.141	27.991	25.030	0.00	0.00
ATOM	7702	N	VAL	X	507	44.597	30.116	25.498	0.00	0.00
ATOM	7703	H	VAL	X	507	44.266	30.900	26.042	0.00	0.00
ATOM	7704	CA	VAL	X	507	45.894	30.114	24.790	0.00	0.00
ATOM	7705	HA	VAL	X	507	45.847	29.256	24.120	0.00	0.00
ATOM	7706	CB	VAL	X	507	46.127	31.370	23.893	0.00	0.00
ATOM	7707	HB	VAL	X	507	47.129	31.314	23.468	0.00	0.00
ATOM	7708	CG1	VAL	X	507	45.011	31.454	22.815	0.00	0.00
ATOM	7709	HG11	VAL	X	507	45.220	30.658	22.101	0.00	0.00
ATOM	7710	HG12	VAL	X	507	44.047	31.223	23.269	0.00	0.00
ATOM	7711	HG13	VAL	X	507	45.002	32.401	22.275	0.00	0.00
ATOM	7712	CG2	VAL	X	507	46.005	32.678	24.705	0.00	0.00
ATOM	7713	HG21	VAL	X	507	46.815	32.624	25.431	0.00	0.00
ATOM	7714	HG22	VAL	X	507	45.906	33.588	24.113	0.00	0.00
ATOM	7715	HG23	VAL	X	507	45.042	32.630	25.212	0.00	0.00
ATOM	7716	C	VAL	X	507	47.072	30.005	25.812	0.00	0.00
ATOM	7717	O	VAL	X	507	46.987	30.511	26.912	0.00	0.00
ATOM	7718	N	SER	X	508	48.173	29.321	25.390	0.00	0.00
ATOM	7719	H	SER	X	508	47.996	29.097	24.421	0.00	0.00
ATOM	7720	CA	SER	X	508	49.500	29.545	25.931	0.00	0.00
ATOM	7721	HA	SER	X	508	49.494	29.826	26.984	0.00	0.00
ATOM	7722	CB	SER	X	508	50.510	28.357	25.780	0.00	0.00
ATOM	7723	HB2	SER	X	508	50.068	27.436	26.162	0.00	0.00
ATOM	7724	HB3	SER	X	508	50.782	28.179	24.739	0.00	0.00
ATOM	7725	OG	SER	X	508	51.705	28.649	26.466	0.00	0.00
ATOM	7726	HG	SER	X	508	52.202	27.856	26.678	0.00	0.00
ATOM	7727	C	SER	X	508	50.122	30.862	25.381	0.00	0.00
ATOM	7728	O	SER	X	508	50.187	31.151	24.168	0.00	0.00
ATOM	7729	N	LEU	X	509	50.624	31.697	26.283	0.00	0.00
ATOM	7730	H	LEU	X	509	50.583	31.312	27.216	0.00	0.00
ATOM	7731	CA	LEU	X	509	51.598	32.695	26.101	0.00	0.00
ATOM	7732	HA	LEU	X	509	51.645	33.060	25.075	0.00	0.00
ATOM	7733	CB	LEU	X	509	51.142	33.890	26.930	0.00	0.00
ATOM	7734	HB2	LEU	X	509	51.166	33.476	27.938	0.00	0.00
ATOM	7735	HB3	LEU	X	509	51.882	34.688	26.886	0.00	0.00
ATOM	7736	CG	LEU	X	509	49.661	34.375	26.561	0.00	0.00
ATOM	7737	HG	LEU	X	509	48.916	33.583	26.635	0.00	0.00
ATOM	7738	CD1	LEU	X	509	49.196	35.418	27.598	0.00	0.00
ATOM	7739	HD11	LEU	X	509	49.865	36.251	27.814	0.00	0.00
ATOM	7740	HD12	LEU	X	509	48.276	35.888	27.250	0.00	0.00
ATOM	7741	HD13	LEU	X	509	49.045	34.797	28.481	0.00	0.00

ATOM	7742	CD2	LEU	X	509	49.547	34.932	25.111	0.00	0.00
ATOM	7743	HD21	LEU	X	509	50.259	35.749	25.000	0.00	0.00
ATOM	7744	HD22	LEU	X	509	49.819	34.164	24.387	0.00	0.00
ATOM	7745	HD23	LEU	X	509	48.510	35.228	24.951	0.00	0.00
ATOM	7746	C	LEU	X	509	52.964	32.223	26.510	0.00	0.00
ATOM	7747	O	LEU	X	509	53.241	31.814	27.637	0.00	0.00
ATOM	7748	N	ASP	X	510	53.854	32.489	25.568	0.00	0.00
ATOM	7749	H	ASP	X	510	53.495	32.883	24.710	0.00	0.00
ATOM	7750	CA	ASP	X	510	55.198	32.122	25.607	0.00	0.00
ATOM	7751	HA	ASP	X	510	55.601	32.521	26.538	0.00	0.00
ATOM	7752	CB	ASP	X	510	55.347	30.479	25.552	0.00	0.00
ATOM	7753	HB2	ASP	X	510	54.709	30.152	26.374	0.00	0.00
ATOM	7754	HB3	ASP	X	510	54.898	30.091	24.638	0.00	0.00
ATOM	7755	CG	ASP	X	510	56.758	29.925	25.530	0.00	0.00
ATOM	7756	OD1	ASP	X	510	57.570	30.234	26.443	0.00	0.00
ATOM	7757	OD2	ASP	X	510	57.100	29.212	24.634	0.00	0.00
ATOM	7758	C	ASP	X	510	55.943	32.887	24.431	0.00	0.00
ATOM	7759	O	ASP	X	510	55.311	33.609	23.625	0.00	0.00
ATOM	7760	N	LEU	X	511	57.250	32.781	24.405	0.00	0.00
ATOM	7761	H	LEU	X	511	57.690	32.382	25.222	0.00	0.00
ATOM	7762	CA	LEU	X	511	58.086	33.364	23.283	0.00	0.00
ATOM	7763	HA	LEU	X	511	57.905	34.438	23.256	0.00	0.00
ATOM	7764	CB	LEU	X	511	59.571	32.925	23.484	0.00	0.00
ATOM	7765	HB2	LEU	X	511	59.496	31.844	23.607	0.00	0.00
ATOM	7766	HB3	LEU	X	511	60.111	33.159	22.567	0.00	0.00
ATOM	7767	CG	LEU	X	511	60.366	33.565	24.616	0.00	0.00
ATOM	7768	HG	LEU	X	511	59.828	33.215	25.498	0.00	0.00
ATOM	7769	CD1	LEU	X	511	61.745	32.970	24.746	0.00	0.00
ATOM	7770	HD11	LEU	X	511	62.182	33.567	25.546	0.00	0.00
ATOM	7771	HD12	LEU	X	511	61.683	31.910	24.990	0.00	0.00
ATOM	7772	HD13	LEU	X	511	62.331	33.133	23.841	0.00	0.00
ATOM	7773	CD2	LEU	X	511	60.335	35.091	24.548	0.00	0.00
ATOM	7774	HD21	LEU	X	511	60.973	35.545	25.307	0.00	0.00
ATOM	7775	HD22	LEU	X	511	60.786	35.428	23.615	0.00	0.00
ATOM	7776	HD23	LEU	X	511	59.385	35.572	24.780	0.00	0.00
ATOM	7777	C	LEU	X	511	57.531	32.918	21.987	0.00	0.00
ATOM	7778	O	LEU	X	511	57.677	33.546	20.896	0.00	0.00
ATOM	7779	N	ARG	X	512	57.044	31.713	21.925	0.00	0.00
ATOM	7780	H	ARG	X	512	56.757	31.381	22.835	0.00	0.00
ATOM	7781	CA	ARG	X	512	56.498	31.110	20.736	0.00	0.00
ATOM	7782	HA	ARG	X	512	57.310	30.990	20.019	0.00	0.00
ATOM	7783	CB	ARG	X	512	56.233	29.583	21.060	0.00	0.00
ATOM	7784	HB2	ARG	X	512	55.523	29.481	21.880	0.00	0.00
ATOM	7785	HB3	ARG	X	512	55.725	29.253	20.154	0.00	0.00
ATOM	7786	CG	ARG	X	512	57.494	28.724	21.324	0.00	0.00
ATOM	7787	HG2	ARG	X	512	58.018	28.626	20.374	0.00	0.00
ATOM	7788	HG3	ARG	X	512	58.219	29.165	22.009	0.00	0.00
ATOM	7789	CD	ARG	X	512	57.008	27.283	21.648	0.00	0.00
ATOM	7790	HD2	ARG	X	512	56.369	27.411	22.522	0.00	0.00
ATOM	7791	HD3	ARG	X	512	56.385	26.855	20.863	0.00	0.00
ATOM	7792	NE	ARG	X	512	58.095	26.360	22.005	0.00	0.00
ATOM	7793	HE	ARG	X	512	58.438	25.860	21.198	0.00	0.00
ATOM	7794	CZ	ARG	X	512	58.536	26.107	23.206	0.00	0.00
ATOM	7795	NH1	ARG	X	512	58.040	26.673	24.328	0.00	0.00
ATOM	7796	HH11	ARG	X	512	57.499	27.523	24.261	0.00	0.00
ATOM	7797	HH12	ARG	X	512	58.346	26.307	25.218	0.00	0.00
ATOM	7798	NH2	ARG	X	512	59.429	25.165	23.350	0.00	0.00
ATOM	7799	HH21	ARG	X	512	59.812	24.752	22.512	0.00	0.00
ATOM	7800	HH22	ARG	X	512	59.919	24.954	24.208	0.00	0.00
ATOM	7801	C	ARG	X	512	55.260	31.900	20.328	0.00	0.00
ATOM	7802	O	ARG	X	512	54.646	32.650	21.085	0.00	0.00
ATOM	7803	N	PRO	X	513	54.674	31.653	19.137	0.00	0.00
ATOM	7804	CD	PRO	X	513	55.327	30.975	18.006	0.00	0.00
ATOM	7805	HD2	PRO	X	513	55.811	30.049	18.316	0.00	0.00
ATOM	7806	HD3	PRO	X	513	56.141	31.486	17.491	0.00	0.00
ATOM	7807	CG	PRO	X	513	54.262	30.769	16.906	0.00	0.00
ATOM	7808	HG2	PRO	X	513	53.692	29.864	17.119	0.00	0.00
ATOM	7809	HG3	PRO	X	513	54.682	30.722	15.901	0.00	0.00
ATOM	7810	CB	PRO	X	513	53.345	31.949	17.106	0.00	0.00
ATOM	7811	HB2	PRO	X	513	52.372	31.734	16.665	0.00	0.00

ATOM	7812	HB3	PRO	X	513	53.727	32.870	16.666	0.00	0.00
ATOM	7813	CA	PRO	X	513	53.354	32.183	18.620	0.00	0.00
ATOM	7814	HA	PRO	X	513	53.176	33.234	18.851	0.00	0.00
ATOM	7815	C	PRO	X	513	52.180	31.408	19.317	0.00	0.00
ATOM	7816	O	PRO	X	513	52.224	30.307	19.935	0.00	0.00
ATOM	7817	N	LEU	X	514	51.005	32.052	19.318	0.00	0.00
ATOM	7818	H	LEU	X	514	51.037	33.004	18.982	0.00	0.00
ATOM	7819	CA	LEU	X	514	49.770	31.658	20.070	0.00	0.00
ATOM	7820	HA	LEU	X	514	50.005	31.767	21.129	0.00	0.00
ATOM	7821	CB	LEU	X	514	48.641	32.613	19.612	0.00	0.00
ATOM	7822	HB2	LEU	X	514	48.430	32.500	18.549	0.00	0.00
ATOM	7823	HB3	LEU	X	514	47.752	32.222	20.107	0.00	0.00
ATOM	7824	CG	LEU	X	514	48.724	34.080	20.107	0.00	0.00
ATOM	7825	HG	LEU	X	514	49.630	34.476	19.649	0.00	0.00
ATOM	7826	CD1	LEU	X	514	47.607	34.944	19.546	0.00	0.00
ATOM	7827	HD11	LEU	X	514	47.432	34.987	18.471	0.00	0.00
ATOM	7828	HD12	LEU	X	514	46.663	34.676	20.019	0.00	0.00
ATOM	7829	HD13	LEU	X	514	47.747	35.999	19.784	0.00	0.00
ATOM	7830	CD2	LEU	X	514	48.811	34.332	21.578	0.00	0.00
ATOM	7831	HD21	LEU	X	514	48.359	35.282	21.864	0.00	0.00
ATOM	7832	HD22	LEU	X	514	48.349	33.482	22.081	0.00	0.00
ATOM	7833	HD23	LEU	X	514	49.859	34.411	21.865	0.00	0.00
ATOM	7834	C	LEU	X	514	49.464	30.222	19.766	0.00	0.00
ATOM	7835	O	LEU	X	514	49.314	29.811	18.602	0.00	0.00
ATOM	7836	N	GLU	X	515	49.478	29.384	20.814	0.00	0.00
ATOM	7837	H	GLU	X	515	49.807	29.797	21.676	0.00	0.00
ATOM	7838	CA	GLU	X	515	49.077	27.971	20.833	0.00	0.00
ATOM	7839	HA	GLU	X	515	49.112	27.620	19.802	0.00	0.00
ATOM	7840	CB	GLU	X	515	50.195	27.082	21.591	0.00	0.00
ATOM	7841	HB2	GLU	X	515	51.126	27.108	21.025	0.00	0.00
ATOM	7842	HB3	GLU	X	515	50.319	27.349	22.640	0.00	0.00
ATOM	7843	CG	GLU	X	515	49.774	25.626	21.538	0.00	0.00
ATOM	7844	HG2	GLU	X	515	48.754	25.486	21.896	0.00	0.00
ATOM	7845	HG3	GLU	X	515	49.799	25.261	20.512	0.00	0.00
ATOM	7846	CD	GLU	X	515	50.654	24.700	22.384	0.00	0.00
ATOM	7847	OE1	GLU	X	515	50.204	23.822	23.192	0.00	0.00
ATOM	7848	OE2	GLU	X	515	51.876	24.875	22.226	0.00	0.00
ATOM	7849	C	GLU	X	515	47.684	27.915	21.534	0.00	0.00
ATOM	7850	O	GLU	X	515	47.547	28.498	22.616	0.00	0.00
ATOM	7851	N	VAL	X	516	46.733	27.180	21.021	0.00	0.00
ATOM	7852	H	VAL	X	516	46.774	26.976	20.032	0.00	0.00
ATOM	7853	CA	VAL	X	516	45.396	27.147	21.569	0.00	0.00
ATOM	7854	HA	VAL	X	516	45.215	27.927	22.309	0.00	0.00
ATOM	7855	CB	VAL	X	516	44.260	27.432	20.511	0.00	0.00
ATOM	7856	HB	VAL	X	516	44.380	26.787	19.640	0.00	0.00
ATOM	7857	CG1	VAL	X	516	42.852	27.074	21.016	0.00	0.00
ATOM	7858	HG11	VAL	X	516	42.094	27.289	20.263	0.00	0.00
ATOM	7859	HG12	VAL	X	516	42.912	26.012	21.255	0.00	0.00
ATOM	7860	HG13	VAL	X	516	42.584	27.630	21.914	0.00	0.00
ATOM	7861	CG2	VAL	X	516	44.206	28.918	20.082	0.00	0.00
ATOM	7862	HG21	VAL	X	516	43.750	29.535	20.857	0.00	0.00
ATOM	7863	HG22	VAL	X	516	45.243	29.216	19.932	0.00	0.00
ATOM	7864	HG23	VAL	X	516	43.492	28.869	19.260	0.00	0.00
ATOM	7865	C	VAL	X	516	45.255	25.697	22.175	0.00	0.00
ATOM	7866	O	VAL	X	516	45.465	24.648	21.549	0.00	0.00
ATOM	7867	N	ARG	X	517	44.741	25.628	23.437	0.00	0.00
ATOM	7868	H	ARG	X	517	44.397	26.478	23.860	0.00	0.00
ATOM	7869	CA	ARG	X	517	44.444	24.442	24.126	0.00	0.00
ATOM	7870	HA	ARG	X	517	44.532	23.476	23.629	0.00	0.00
ATOM	7871	CB	ARG	X	517	45.452	24.328	25.309	0.00	0.00
ATOM	7872	HB2	ARG	X	517	45.290	25.171	25.980	0.00	0.00
ATOM	7873	HB3	ARG	X	517	45.190	23.462	25.916	0.00	0.00
ATOM	7874	CG	ARG	X	517	46.959	24.338	24.892	0.00	0.00
ATOM	7875	HG2	ARG	X	517	47.070	23.466	24.248	0.00	0.00
ATOM	7876	HG3	ARG	X	517	47.266	25.246	24.373	0.00	0.00
ATOM	7877	CD	ARG	X	517	47.878	24.249	26.052	0.00	0.00
ATOM	7878	HD2	ARG	X	517	47.579	24.975	26.809	0.00	0.00
ATOM	7879	HD3	ARG	X	517	47.800	23.251	26.483	0.00	0.00
ATOM	7880	NE	ARG	X	517	49.261	24.469	25.619	0.00	0.00
ATOM	7881	HE	ARG	X	517	49.448	24.160	24.676	0.00	0.00

ATOM	7882	CZ	ARG	X	517	50.358	24.727	26.278	0.00	0.00
ATOM	7883	NH1	ARG	X	517	50.376	24.989	27.571	0.00	0.00
ATOM	7884	HH11	ARG	X	517	49.549	25.091	28.141	0.00	0.00
ATOM	7885	HH12	ARG	X	517	51.296	25.038	27.986	0.00	0.00
ATOM	7886	NH2	ARG	X	517	51.528	24.734	25.629	0.00	0.00
ATOM	7887	HH21	ARG	X	517	51.490	24.564	24.634	0.00	0.00
ATOM	7888	HH22	ARG	X	517	52.368	25.179	25.969	0.00	0.00
ATOM	7889	C	ARG	X	517	42.972	24.521	24.617	0.00	0.00
ATOM	7890	O	ARG	X	517	42.392	25.568	24.522	0.00	0.00
ATOM	7891	N	ARG	X	518	42.390	23.416	25.151	0.00	0.00
ATOM	7892	H	ARG	X	518	42.962	22.619	25.389	0.00	0.00
ATOM	7893	CA	ARG	X	518	40.955	23.373	25.489	0.00	0.00
ATOM	7894	HA	ARG	X	518	40.695	24.394	25.768	0.00	0.00
ATOM	7895	CB	ARG	X	518	40.095	22.824	24.373	0.00	0.00
ATOM	7896	HB2	ARG	X	518	40.262	21.766	24.167	0.00	0.00
ATOM	7897	HB3	ARG	X	518	39.059	22.937	24.691	0.00	0.00
ATOM	7898	CG	ARG	X	518	40.348	23.553	23.110	0.00	0.00
ATOM	7899	HG2	ARG	X	518	40.225	24.632	23.202	0.00	0.00
ATOM	7900	HG3	ARG	X	518	41.388	23.451	22.799	0.00	0.00
ATOM	7901	CD	ARG	X	518	39.501	23.056	21.923	0.00	0.00
ATOM	7902	HD2	ARG	X	518	40.032	22.227	21.455	0.00	0.00
ATOM	7903	HD3	ARG	X	518	38.548	22.682	22.298	0.00	0.00
ATOM	7904	NE	ARG	X	518	39.392	23.991	20.833	0.00	0.00
ATOM	7905	HE	ARG	X	518	39.529	24.984	20.954	0.00	0.00
ATOM	7906	CZ	ARG	X	518	38.826	23.731	19.665	0.00	0.00
ATOM	7907	NH1	ARG	X	518	38.395	22.509	19.399	0.00	0.00
ATOM	7908	HH11	ARG	X	518	38.516	21.769	20.076	0.00	0.00
ATOM	7909	HH12	ARG	X	518	38.347	22.256	18.422	0.00	0.00
ATOM	7910	NH2	ARG	X	518	38.732	24.674	18.802	0.00	0.00
ATOM	7911	HH21	ARG	X	518	39.108	25.583	19.029	0.00	0.00
ATOM	7912	HH22	ARG	X	518	38.205	24.495	17.959	0.00	0.00
ATOM	7913	C	ARG	X	518	40.743	22.573	26.839	0.00	0.00
ATOM	7914	O	ARG	X	518	41.454	21.679	27.171	0.00	0.00
ATOM	7915	N	GLY	X	519	39.739	23.131	27.549	0.00	0.00
ATOM	7916	H	GLY	X	519	39.293	23.989	27.255	0.00	0.00
ATOM	7917	CA	GLY	X	519	39.303	22.610	28.843	0.00	0.00
ATOM	7918	HA2	GLY	X	519	38.261	22.777	29.029	0.00	0.00
ATOM	7919	HA3	GLY	X	519	39.460	21.514	28.633	0.00	0.00
ATOM	7920	C	GLY	X	519	40.269	22.913	29.932	0.00	0.00
ATOM	7921	O	GLY	X	519	40.517	22.080	30.787	0.00	0.00
ATOM	7922	N	LEU	X	520	40.599	24.190	30.139	0.00	0.00
ATOM	7923	H	LEU	X	520	40.224	24.824	29.448	0.00	0.00
ATOM	7924	CA	LEU	X	520	41.567	24.770	31.050	0.00	0.00
ATOM	7925	HA	LEU	X	520	42.526	24.646	30.547	0.00	0.00
ATOM	7926	CB	LEU	X	520	41.238	26.351	30.973	0.00	0.00
ATOM	7927	HB2	LEU	X	520	41.545	26.759	30.010	0.00	0.00
ATOM	7928	HB3	LEU	X	520	40.169	26.481	31.144	0.00	0.00
ATOM	7929	CG	LEU	X	520	41.888	27.292	32.046	0.00	0.00
ATOM	7930	HG	LEU	X	520	41.639	26.910	33.036	0.00	0.00
ATOM	7931	CD1	LEU	X	520	43.396	27.300	32.091	0.00	0.00
ATOM	7932	HD11	LEU	X	520	43.747	26.304	32.362	0.00	0.00
ATOM	7933	HD12	LEU	X	520	43.799	27.669	31.148	0.00	0.00
ATOM	7934	HD13	LEU	X	520	43.805	28.065	32.751	0.00	0.00
ATOM	7935	CD2	LEU	X	520	41.320	28.668	31.864	0.00	0.00
ATOM	7936	HD21	LEU	X	520	41.729	29.404	32.557	0.00	0.00
ATOM	7937	HD22	LEU	X	520	41.591	29.005	30.863	0.00	0.00
ATOM	7938	HD23	LEU	X	520	40.236	28.648	31.975	0.00	0.00
ATOM	7939	C	LEU	X	520	41.483	24.152	32.521	0.00	0.00
ATOM	7940	O	LEU	X	520	40.609	24.512	33.316	0.00	0.00
ATOM	7941	N	ARG	X	521	42.405	23.198	32.769	0.00	0.00
ATOM	7942	H	ARG	X	521	43.146	23.125	32.088	0.00	0.00
ATOM	7943	CA	ARG	X	521	42.583	22.571	34.097	0.00	0.00
ATOM	7944	HA	ARG	X	521	43.310	21.805	33.826	0.00	0.00
ATOM	7945	CB	ARG	X	521	43.196	23.491	35.123	0.00	0.00
ATOM	7946	HB2	ARG	X	521	43.770	24.304	34.680	0.00	0.00
ATOM	7947	HB3	ARG	X	521	42.443	24.125	35.591	0.00	0.00
ATOM	7948	CG	ARG	X	521	43.889	22.894	36.280	0.00	0.00
ATOM	7949	HG2	ARG	X	521	44.540	23.661	36.700	0.00	0.00
ATOM	7950	HG3	ARG	X	521	43.141	22.753	37.060	0.00	0.00
ATOM	7951	CD	ARG	X	521	44.643	21.588	36.010	0.00	0.00

ATOM	7952	HD2	ARG	X	521	43.951	20.809	35.691	0.00	0.00
ATOM	7953	HD3	ARG	X	521	45.330	21.853	35.206	0.00	0.00
ATOM	7954	NE	ARG	X	521	45.432	21.086	37.173	0.00	0.00
ATOM	7955	HE	ARG	X	521	45.195	21.619	37.997	0.00	0.00
ATOM	7956	CZ	ARG	X	521	46.337	20.120	37.354	0.00	0.00
ATOM	7957	NH1	ARG	X	521	46.557	19.329	36.326	0.00	0.00
ATOM	7958	HH11	ARG	X	521	46.030	19.323	35.464	0.00	0.00
ATOM	7959	HH12	ARG	X	521	47.410	18.788	36.303	0.00	0.00
ATOM	7960	NH2	ARG	X	521	46.951	19.887	38.527	0.00	0.00
ATOM	7961	HH21	ARG	X	521	46.580	20.454	39.276	0.00	0.00
ATOM	7962	HH22	ARG	X	521	47.758	19.281	38.487	0.00	0.00
ATOM	7963	C	ARG	X	521	41.363	21.690	34.578	0.00	0.00
ATOM	7964	O	ARG	X	521	41.398	21.103	35.661	0.00	0.00
ATOM	7965	N	ALA	X	522	40.291	21.601	33.766	0.00	0.00
ATOM	7966	H	ALA	X	522	40.428	22.250	33.005	0.00	0.00
ATOM	7967	CA	ALA	X	522	39.013	20.983	34.009	0.00	0.00
ATOM	7968	HA	ALA	X	522	38.611	21.569	34.835	0.00	0.00
ATOM	7969	CB	ALA	X	522	38.114	21.117	32.770	0.00	0.00
ATOM	7970	HB1	ALA	X	522	37.952	22.138	32.425	0.00	0.00
ATOM	7971	HB2	ALA	X	522	38.447	20.461	31.965	0.00	0.00
ATOM	7972	HB3	ALA	X	522	37.094	20.828	33.021	0.00	0.00
ATOM	7973	C	ALA	X	522	39.099	19.494	34.480	0.00	0.00
ATOM	7974	O	ALA	X	522	38.176	18.979	35.123	0.00	0.00
ATOM	7975	N	GLN	X	523	40.151	18.759	34.131	0.00	0.00
ATOM	7976	H	GLN	X	523	40.873	19.168	33.555	0.00	0.00
ATOM	7977	CA	GLN	X	523	40.385	17.370	34.543	0.00	0.00
ATOM	7978	HA	GLN	X	523	39.527	16.747	34.291	0.00	0.00
ATOM	7979	CB	GLN	X	523	41.543	16.683	33.744	0.00	0.00
ATOM	7980	HB2	GLN	X	523	41.449	16.907	32.681	0.00	0.00
ATOM	7981	HB3	GLN	X	523	42.429	17.151	34.174	0.00	0.00
ATOM	7982	CG	GLN	X	523	41.615	15.128	33.930	0.00	0.00
ATOM	7983	HG2	GLN	X	523	41.850	14.966	34.982	0.00	0.00
ATOM	7984	HG3	GLN	X	523	40.644	14.706	33.672	0.00	0.00
ATOM	7985	CD	GLN	X	523	42.691	14.488	33.107	0.00	0.00
ATOM	7986	OE1	GLN	X	523	42.636	14.157	31.894	0.00	0.00
ATOM	7987	NE2	GLN	X	523	43.851	14.226	33.762	0.00	0.00
ATOM	7988	HE21	GLN	X	523	44.510	13.882	33.077	0.00	0.00
ATOM	7989	HE22	GLN	X	523	44.044	14.450	34.727	0.00	0.00
ATOM	7990	C	GLN	X	523	40.660	17.316	36.119	0.00	0.00
ATOM	7991	O	GLN	X	523	40.358	16.304	36.735	0.00	0.00
ATOM	7992	N	ALA	X	524	41.168	18.410	36.660	0.00	0.00
ATOM	7993	H	ALA	X	524	41.397	19.105	35.964	0.00	0.00
ATOM	7994	CA	ALA	X	524	41.250	18.719	38.112	0.00	0.00
ATOM	7995	HA	ALA	X	524	41.333	17.789	38.675	0.00	0.00
ATOM	7996	CB	ALA	X	524	42.491	19.475	38.488	0.00	0.00
ATOM	7997	HB1	ALA	X	524	43.372	18.881	38.244	0.00	0.00
ATOM	7998	HB2	ALA	X	524	42.460	20.382	37.884	0.00	0.00
ATOM	7999	HB3	ALA	X	524	42.651	19.636	39.554	0.00	0.00
ATOM	8000	C	ALA	X	524	40.000	19.422	38.563	0.00	0.00
ATOM	8001	O	ALA	X	524	39.447	19.025	39.633	0.00	0.00
ATOM	8002	N	CYX	X	525	39.572	20.482	37.933	0.00	0.00
ATOM	8003	H	CYX	X	525	39.918	20.617	36.994	0.00	0.00
ATOM	8004	CA	CYX	X	525	38.631	21.489	38.547	0.00	0.00
ATOM	8005	HA	CYX	X	525	39.069	21.839	39.482	0.00	0.00
ATOM	8006	CB	CYX	X	525	38.549	22.751	37.678	0.00	0.00
ATOM	8007	HB2	CYX	X	525	38.194	22.420	36.702	0.00	0.00
ATOM	8008	HB3	CYX	X	525	37.863	23.457	38.148	0.00	0.00
ATOM	8009	SG	CYX	X	525	40.090	23.580	37.439	0.00	0.00
ATOM	8010	C	CYX	X	525	37.295	20.890	38.916	0.00	0.00
ATOM	8011	O	CYX	X	525	36.785	21.261	39.974	0.00	0.00
ATOM	8012	N	ALA	X	526	36.756	19.869	38.226	0.00	0.00
ATOM	8013	H	ALA	X	526	37.246	19.659	37.368	0.00	0.00
ATOM	8014	CA	ALA	X	526	35.533	19.134	38.589	0.00	0.00
ATOM	8015	HA	ALA	X	526	34.723	19.856	38.687	0.00	0.00
ATOM	8016	CB	ALA	X	526	35.108	18.313	37.378	0.00	0.00
ATOM	8017	HB1	ALA	X	526	35.039	18.879	36.449	0.00	0.00
ATOM	8018	HB2	ALA	X	526	35.799	17.470	37.361	0.00	0.00
ATOM	8019	HB3	ALA	X	526	34.188	17.803	37.663	0.00	0.00
ATOM	8020	C	ALA	X	526	35.458	18.361	39.883	0.00	0.00
ATOM	8021	O	ALA	X	526	34.443	18.250	40.546	0.00	0.00

ATOM	8022	N	PHE	X	527	36.687	17.827	40.181	0.00	0.00
ATOM	8023	H	PHE	X	527	37.482	17.973	39.576	0.00	0.00
ATOM	8024	CA	PHE	X	527	36.846	17.087	41.444	0.00	0.00
ATOM	8025	HA	PHE	X	527	36.066	16.328	41.491	0.00	0.00
ATOM	8026	CB	PHE	X	527	38.196	16.322	41.364	0.00	0.00
ATOM	8027	HB2	PHE	X	527	37.986	15.449	40.746	0.00	0.00
ATOM	8028	HB3	PHE	X	527	38.992	16.895	40.889	0.00	0.00
ATOM	8029	CG	PHE	X	527	38.828	15.792	42.666	0.00	0.00
ATOM	8030	CD1	PHE	X	527	38.610	14.482	43.045	0.00	0.00
ATOM	8031	HD1	PHE	X	527	37.896	13.920	42.461	0.00	0.00
ATOM	8032	CE1	PHE	X	527	39.272	13.888	44.154	0.00	0.00
ATOM	8033	HE1	PHE	X	527	39.038	12.849	44.334	0.00	0.00
ATOM	8034	CZ	PHE	X	527	40.103	14.691	45.042	0.00	0.00
ATOM	8035	HZ	PHE	X	527	40.503	14.191	45.912	0.00	0.00
ATOM	8036	CE2	PHE	X	527	40.243	16.028	44.666	0.00	0.00
ATOM	8037	HE2	PHE	X	527	40.907	16.687	45.206	0.00	0.00
ATOM	8038	CD2	PHE	X	527	39.647	16.584	43.476	0.00	0.00
ATOM	8039	HD2	PHE	X	527	39.860	17.623	43.275	0.00	0.00
ATOM	8040	C	PHE	X	527	36.788	18.084	42.609	0.00	0.00
ATOM	8041	O	PHE	X	527	35.922	17.879	43.484	0.00	0.00
ATOM	8042	N	TRP	X	528	37.529	19.163	42.509	0.00	0.00
ATOM	8043	H	TRP	X	528	38.110	19.191	41.684	0.00	0.00
ATOM	8044	CA	TRP	X	528	37.500	20.365	43.466	0.00	0.00
ATOM	8045	HA	TRP	X	528	37.759	19.907	44.420	0.00	0.00
ATOM	8046	CB	TRP	X	528	38.551	21.364	43.018	0.00	0.00
ATOM	8047	HB2	TRP	X	528	38.395	21.618	41.970	0.00	0.00
ATOM	8048	HB3	TRP	X	528	38.384	22.245	43.639	0.00	0.00
ATOM	8049	CG	TRP	X	528	39.995	20.978	43.158	0.00	0.00
ATOM	8050	CD1	TRP	X	528	40.922	20.827	42.155	0.00	0.00
ATOM	8051	HD1	TRP	X	528	40.675	20.965	41.112	0.00	0.00
ATOM	8052	NE1	TRP	X	528	42.119	20.454	42.660	0.00	0.00
ATOM	8053	HE1	TRP	X	528	42.838	20.027	42.094	0.00	0.00
ATOM	8054	CE2	TRP	X	528	42.129	20.288	44.012	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	43.057	19.818	44.949	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	44.027	19.488	44.607	0.00	0.00
ATOM	8057	CH2	TRP	X	528	42.769	19.894	46.276	0.00	0.00
ATOM	8058	HH2	TRP	X	528	43.405	19.411	47.003	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	41.530	20.413	46.715	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	41.454	20.446	47.792	0.00	0.00
ATOM	8061	CE3	TRP	X	528	40.475	20.694	45.780	0.00	0.00
ATOM	8062	HE3	TRP	X	528	39.506	21.007	46.141	0.00	0.00
ATOM	8063	CD2	TRP	X	528	40.755	20.619	44.366	0.00	0.00
ATOM	8064	C	TRP	X	528	36.108	20.883	43.650	0.00	0.00
ATOM	8065	O	TRP	X	528	35.836	21.262	44.763	0.00	0.00
ATOM	8066	N	ASN	X	529	35.305	21.065	42.623	0.00	0.00
ATOM	8067	H	ASN	X	529	35.759	20.980	41.725	0.00	0.00
ATOM	8068	CA	ASN	X	529	33.952	21.687	42.594	0.00	0.00
ATOM	8069	HA	ASN	X	529	34.023	22.476	43.343	0.00	0.00
ATOM	8070	CB	ASN	X	529	33.758	22.446	41.309	0.00	0.00
ATOM	8071	HB2	ASN	X	529	34.116	21.931	40.418	0.00	0.00
ATOM	8072	HB3	ASN	X	529	32.679	22.518	41.171	0.00	0.00
ATOM	8073	CG	ASN	X	529	34.375	23.843	41.355	0.00	0.00
ATOM	8074	OD1	ASN	X	529	35.490	24.074	40.911	0.00	0.00
ATOM	8075	ND2	ASN	X	529	33.824	24.738	42.163	0.00	0.00
ATOM	8076	HD21	ASN	X	529	34.317	25.613	42.272	0.00	0.00
ATOM	8077	HD22	ASN	X	529	32.902	24.628	42.559	0.00	0.00
ATOM	8078	C	ASN	X	529	32.799	20.797	43.064	0.00	0.00
ATOM	8079	O	ASN	X	529	31.741	21.285	43.376	0.00	0.00
ATOM	8080	N	ARG	X	530	33.007	19.497	43.079	0.00	0.00
ATOM	8081	H	ARG	X	530	33.888	19.180	42.700	0.00	0.00
ATOM	8082	CA	ARG	X	530	31.942	18.499	43.265	0.00	0.00
ATOM	8083	HA	ARG	X	530	31.175	18.952	43.894	0.00	0.00
ATOM	8084	CB	ARG	X	530	31.375	18.137	41.869	0.00	0.00
ATOM	8085	HB2	ARG	X	530	32.181	17.872	41.185	0.00	0.00
ATOM	8086	HB3	ARG	X	530	30.809	17.206	41.859	0.00	0.00
ATOM	8087	CG	ARG	X	530	30.434	19.196	41.268	0.00	0.00
ATOM	8088	HG2	ARG	X	530	29.757	19.410	42.095	0.00	0.00
ATOM	8089	HG3	ARG	X	530	30.989	20.120	41.104	0.00	0.00
ATOM	8090	CD	ARG	X	530	29.679	18.852	39.958	0.00	0.00
ATOM	8091	HD2	ARG	X	530	29.203	17.880	40.083	0.00	0.00

ATOM	8092	HD3	ARG	X	530	28.928	19.622	39.779	0.00	0.00
ATOM	8093	NE	ARG	X	530	30.570	18.721	38.868	0.00	0.00
ATOM	8094	HE	ARG	X	530	30.467	17.842	38.381	0.00	0.00
ATOM	8095	CZ	ARG	X	530	31.319	19.705	38.376	0.00	0.00
ATOM	8096	NH1	ARG	X	530	31.403	20.917	38.862	0.00	0.00
ATOM	8097	HH11	ARG	X	530	30.714	21.289	39.501	0.00	0.00
ATOM	8098	HH12	ARG	X	530	31.954	21.618	38.388	0.00	0.00
ATOM	8099	NH2	ARG	X	530	32.068	19.465	37.340	0.00	0.00
ATOM	8100	HH21	ARG	X	530	32.180	18.520	37.003	0.00	0.00
ATOM	8101	HH22	ARG	X	530	32.605	20.238	36.974	0.00	0.00
ATOM	8102	C	ARG	X	530	32.389	17.300	44.054	0.00	0.00
ATOM	8103	O	ARG	X	530	31.898	17.082	45.136	0.00	0.00
ATOM	8104	N	PHE	X	531	33.278	16.414	43.536	0.00	0.00
ATOM	8105	H	PHE	X	531	33.783	16.648	42.693	0.00	0.00
ATOM	8106	CA	PHE	X	531	33.570	15.156	44.235	0.00	0.00
ATOM	8107	HA	PHE	X	531	32.651	14.574	44.301	0.00	0.00
ATOM	8108	CB	PHE	X	531	34.563	14.285	43.420	0.00	0.00
ATOM	8109	HB2	PHE	X	531	34.163	14.083	42.427	0.00	0.00
ATOM	8110	HB3	PHE	X	531	35.542	14.744	43.284	0.00	0.00
ATOM	8111	CG	PHE	X	531	34.664	12.915	44.043	0.00	0.00
ATOM	8112	CD1	PHE	X	531	33.702	11.946	43.779	0.00	0.00
ATOM	8113	HD1	PHE	X	531	32.887	12.195	43.115	0.00	0.00
ATOM	8114	CE1	PHE	X	531	33.903	10.609	44.157	0.00	0.00
ATOM	8115	HE1	PHE	X	531	33.040	9.961	44.152	0.00	0.00
ATOM	8116	CZ	PHE	X	531	35.060	10.252	44.908	0.00	0.00
ATOM	8117	HZ	PHE	X	531	35.260	9.292	45.362	0.00	0.00
ATOM	8118	CE2	PHE	X	531	36.032	11.202	45.190	0.00	0.00
ATOM	8119	HE2	PHE	X	531	36.882	10.989	45.821	0.00	0.00
ATOM	8120	CD2	PHE	X	531	35.860	12.539	44.679	0.00	0.00
ATOM	8121	HD2	PHE	X	531	36.722	13.174	44.825	0.00	0.00
ATOM	8122	C	PHE	X	531	34.085	15.392	45.669	0.00	0.00
ATOM	8123	O	PHE	X	531	33.775	14.791	46.656	0.00	0.00
ATOM	8124	N	LEU	X	532	35.065	16.336	45.723	0.00	0.00
ATOM	8125	H	LEU	X	532	35.280	16.875	44.897	0.00	0.00
ATOM	8126	CA	LEU	X	532	35.891	16.589	46.924	0.00	0.00
ATOM	8127	HA	LEU	X	532	36.234	15.641	47.339	0.00	0.00
ATOM	8128	CB	LEU	X	532	37.036	17.432	46.395	0.00	0.00
ATOM	8129	HB2	LEU	X	532	37.471	16.866	45.572	0.00	0.00
ATOM	8130	HB3	LEU	X	532	36.670	18.287	45.825	0.00	0.00
ATOM	8131	CG	LEU	X	532	38.120	17.895	47.420	0.00	0.00
ATOM	8132	HG	LEU	X	532	38.964	18.161	46.783	0.00	0.00
ATOM	8133	CD1	LEU	X	532	37.717	19.219	48.034	0.00	0.00
ATOM	8134	HD11	LEU	X	532	37.077	18.990	48.886	0.00	0.00
ATOM	8135	HD12	LEU	X	532	38.583	19.770	48.402	0.00	0.00
ATOM	8136	HD13	LEU	X	532	37.263	19.926	47.340	0.00	0.00
ATOM	8137	CD2	LEU	X	532	38.485	16.721	48.285	0.00	0.00
ATOM	8138	HD21	LEU	X	532	38.665	15.828	47.686	0.00	0.00
ATOM	8139	HD22	LEU	X	532	39.324	16.975	48.933	0.00	0.00
ATOM	8140	HD23	LEU	X	532	37.672	16.464	48.964	0.00	0.00
ATOM	8141	C	LEU	X	532	35.055	17.231	48.154	0.00	0.00
ATOM	8142	O	LEU	X	532	35.233	16.709	49.201	0.00	0.00
ATOM	8143	N	PRO	X	533	34.196	18.234	47.960	0.00	0.00
ATOM	8144	CD	PRO	X	533	34.055	19.261	46.904	0.00	0.00
ATOM	8145	HD2	PRO	X	533	34.100	18.731	45.953	0.00	0.00
ATOM	8146	HD3	PRO	X	533	34.817	20.038	46.953	0.00	0.00
ATOM	8147	CG	PRO	X	533	32.755	19.988	46.958	0.00	0.00
ATOM	8148	HG2	PRO	X	533	31.912	19.409	46.582	0.00	0.00
ATOM	8149	HG3	PRO	X	533	32.714	20.929	46.409	0.00	0.00
ATOM	8150	CB	PRO	X	533	32.671	20.045	48.518	0.00	0.00
ATOM	8151	HB2	PRO	X	533	31.658	20.193	48.892	0.00	0.00
ATOM	8152	HB3	PRO	X	533	33.385	20.783	48.884	0.00	0.00
ATOM	8153	CA	PRO	X	533	33.320	18.786	48.999	0.00	0.00
ATOM	8154	HA	PRO	X	533	33.991	18.928	49.846	0.00	0.00
ATOM	8155	C	PRO	X	533	32.304	17.676	49.419	0.00	0.00
ATOM	8156	O	PRO	X	533	31.995	17.526	50.592	0.00	0.00
ATOM	8157	N	LYS	X	534	31.806	16.957	48.454	0.00	0.00
ATOM	8158	H	LYS	X	534	31.939	17.280	47.506	0.00	0.00
ATOM	8159	CA	LYS	X	534	30.984	15.780	48.718	0.00	0.00
ATOM	8160	HA	LYS	X	534	30.163	16.056	49.380	0.00	0.00
ATOM	8161	CB	LYS	X	534	30.450	15.271	47.413	0.00	0.00

ATOM	8162	HB2	LYS	X	534	31.294	15.285	46.722	0.00	0.00
ATOM	8163	HB3	LYS	X	534	30.030	14.282	47.594	0.00	0.00
ATOM	8164	CG	LYS	X	534	29.395	16.222	46.923	0.00	0.00
ATOM	8165	HG2	LYS	X	534	28.570	16.287	47.631	0.00	0.00
ATOM	8166	HG3	LYS	X	534	29.745	17.253	46.888	0.00	0.00
ATOM	8167	CD	LYS	X	534	28.847	15.804	45.548	0.00	0.00
ATOM	8168	HD2	LYS	X	534	29.674	15.663	44.851	0.00	0.00
ATOM	8169	HD3	LYS	X	534	28.477	14.784	45.646	0.00	0.00
ATOM	8170	CE	LYS	X	534	27.635	16.623	45.100	0.00	0.00
ATOM	8171	HE2	LYS	X	534	27.941	17.652	45.288	0.00	0.00
ATOM	8172	HE3	LYS	X	534	27.479	16.420	44.041	0.00	0.00
ATOM	8173	NZ	LYS	X	534	26.445	16.314	45.964	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	25.644	15.979	45.448	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	26.837	15.567	46.520	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	26.214	17.150	46.481	0.00	0.00
ATOM	8177	C	LYS	X	534	31.569	14.658	49.628	0.00	0.00
ATOM	8178	O	LYS	X	534	30.874	14.077	50.523	0.00	0.00
ATOM	8179	N	LEU	X	535	32.896	14.459	49.536	0.00	0.00
ATOM	8180	H	LEU	X	535	33.439	15.065	48.939	0.00	0.00
ATOM	8181	CA	LEU	X	535	33.612	13.576	50.412	0.00	0.00
ATOM	8182	HA	LEU	X	535	32.997	12.706	50.641	0.00	0.00
ATOM	8183	CB	LEU	X	535	34.917	13.191	49.677	0.00	0.00
ATOM	8184	HB2	LEU	X	535	35.146	13.910	48.890	0.00	0.00
ATOM	8185	HB3	LEU	X	535	35.629	13.424	50.468	0.00	0.00
ATOM	8186	CG	LEU	X	535	34.979	11.732	49.325	0.00	0.00
ATOM	8187	HG	LEU	X	535	34.917	11.047	50.170	0.00	0.00
ATOM	8188	CD1	LEU	X	535	33.960	11.244	48.320	0.00	0.00
ATOM	8189	HD11	LEU	X	535	33.963	11.818	47.393	0.00	0.00
ATOM	8190	HD12	LEU	X	535	33.958	10.182	48.076	0.00	0.00
ATOM	8191	HD13	LEU	X	535	32.982	11.463	48.747	0.00	0.00
ATOM	8192	CD2	LEU	X	535	36.458	11.603	48.849	0.00	0.00
ATOM	8193	HD21	LEU	X	535	36.632	12.280	48.013	0.00	0.00
ATOM	8194	HD22	LEU	X	535	37.171	11.943	49.600	0.00	0.00
ATOM	8195	HD23	LEU	X	535	36.533	10.582	48.474	0.00	0.00
ATOM	8196	C	LEU	X	535	33.811	14.165	51.767	0.00	0.00
ATOM	8197	O	LEU	X	535	33.731	13.353	52.719	0.00	0.00
ATOM	8198	N	LEU	X	536	33.898	15.461	51.904	0.00	0.00
ATOM	8199	H	LEU	X	536	33.815	15.985	51.044	0.00	0.00
ATOM	8200	CA	LEU	X	536	33.896	16.126	53.151	0.00	0.00
ATOM	8201	HA	LEU	X	536	34.522	15.560	53.841	0.00	0.00
ATOM	8202	CB	LEU	X	536	34.402	17.522	53.029	0.00	0.00
ATOM	8203	HB2	LEU	X	536	33.766	18.098	52.356	0.00	0.00
ATOM	8204	HB3	LEU	X	536	34.161	18.020	53.969	0.00	0.00
ATOM	8205	CG	LEU	X	536	35.893	17.654	52.748	0.00	0.00
ATOM	8206	HG	LEU	X	536	36.063	17.163	51.790	0.00	0.00
ATOM	8207	CD1	LEU	X	536	36.218	19.132	52.594	0.00	0.00
ATOM	8208	HD11	LEU	X	536	37.259	19.319	52.328	0.00	0.00
ATOM	8209	HD12	LEU	X	536	35.537	19.585	51.874	0.00	0.00
ATOM	8210	HD13	LEU	X	536	36.009	19.702	53.499	0.00	0.00
ATOM	8211	CD2	LEU	X	536	36.703	17.038	53.889	0.00	0.00
ATOM	8212	HD21	LEU	X	536	37.758	17.232	53.692	0.00	0.00
ATOM	8213	HD22	LEU	X	536	36.402	17.537	54.810	0.00	0.00
ATOM	8214	HD23	LEU	X	536	36.600	15.953	53.906	0.00	0.00
ATOM	8215	C	LEU	X	536	32.519	16.090	53.803	0.00	0.00
ATOM	8216	O	LEU	X	536	32.330	16.086	54.995	0.00	0.00
ATOM	8217	N	SER	X	537	31.478	16.222	52.951	0.00	0.00
ATOM	8218	H	SER	X	537	31.624	16.453	51.979	0.00	0.00
ATOM	8219	CA	SER	X	537	30.085	16.221	53.384	0.00	0.00
ATOM	8220	HA	SER	X	537	30.029	16.994	54.150	0.00	0.00
ATOM	8221	CB	SER	X	537	29.132	16.585	52.246	0.00	0.00
ATOM	8222	HB2	SER	X	537	29.186	15.865	51.430	0.00	0.00
ATOM	8223	HB3	SER	X	537	28.125	16.510	52.657	0.00	0.00
ATOM	8224	OG	SER	X	537	29.233	17.837	51.696	0.00	0.00
ATOM	8225	HG	SER	X	537	30.053	17.934	51.206	0.00	0.00
ATOM	8226	C	SER	X	537	29.721	14.863	53.955	0.00	0.00
ATOM	8227	O	SER	X	537	28.710	14.664	54.593	0.00	0.00
ATOM	8228	N	ALA	X	538	30.594	13.817	53.684	0.00	0.00
ATOM	8229	H	ALA	X	538	31.357	13.933	53.032	0.00	0.00
ATOM	8230	CA	ALA	X	538	30.369	12.383	54.059	0.00	0.00
ATOM	8231	HA	ALA	X	538	29.312	12.298	54.311	0.00	0.00

ATOM	8232	CB	ALA	X	538	30.795	11.489	52.846	0.00	0.00
ATOM	8233	HB1	ALA	X	538	30.597	10.454	53.127	0.00	0.00
ATOM	8234	HB2	ALA	X	538	30.269	11.717	51.919	0.00	0.00
ATOM	8235	HB3	ALA	X	538	31.874	11.548	52.703	0.00	0.00
ATOM	8236	C	ALA	X	538	31.107	11.943	55.344	0.00	0.00
ATOM	8237	O	ALA	X	538	30.995	10.749	55.754	0.00	0.00
ATOM	8238	N	THR	X	539	31.818	12.855	55.930	0.00	0.00
ATOM	8239	H	THR	X	539	31.413	13.773	55.810	0.00	0.00
ATOM	8240	CA	THR	X	539	32.723	12.763	57.082	0.00	0.00
ATOM	8241	HA	THR	X	539	32.606	11.811	57.600	0.00	0.00
ATOM	8242	CB	THR	X	539	34.185	12.724	56.643	0.00	0.00
ATOM	8243	HB	THR	X	539	34.842	12.831	57.506	0.00	0.00
ATOM	8244	CG2	THR	X	539	34.586	11.479	55.887	0.00	0.00
ATOM	8245	HG21	THR	X	539	34.106	10.626	56.366	0.00	0.00
ATOM	8246	HG22	THR	X	539	34.266	11.413	54.847	0.00	0.00
ATOM	8247	HG23	THR	X	539	35.655	11.329	56.039	0.00	0.00
ATOM	8248	OG1	THR	X	539	34.535	13.734	55.759	0.00	0.00
ATOM	8249	HG1	THR	X	539	34.130	13.612	54.897	0.00	0.00
ATOM	8250	C	THR	X	539	32.369	13.781	58.116	0.00	0.00
ATOM	8251	O	THR	X	539	33.070	13.986	59.125	0.00	0.00
ATOM	8252	OXT	THR	X	539	31.219	14.244	58.165	0.00	0.00
ATOM	8253	C	LIG	X	540	52.602	41.998	46.081	0.00	0.00
ATOM	8254	C1	LIG	X	540	53.455	40.989	45.686	0.00	0.00
ATOM	8255	C2	LIG	X	540	54.153	40.324	46.691	0.00	0.00
ATOM	8256	C3	LIG	X	540	54.033	40.638	48.053	0.00	0.00
ATOM	8257	C4	LIG	X	540	53.001	41.596	48.435	0.00	0.00
ATOM	8258	C5	LIG	X	540	52.380	42.308	47.407	0.00	0.00
ATOM	8259	C6	LIG	X	540	53.604	40.779	44.234	0.00	0.00
ATOM	8260	N	LIG	X	540	52.694	39.799	43.551	0.00	0.00
ATOM	8261	H	LIG	X	540	51.713	40.124	43.561	0.00	0.00
ATOM	8262	C7	LIG	X	540	52.996	38.457	44.144	0.00	0.00
ATOM	8263	C8	LIG	X	540	54.176	37.763	43.339	0.00	0.00
ATOM	8264	C9	LIG	X	540	54.256	38.577	42.064	0.00	0.00
ATOM	8265	C10	LIG	X	540	53.190	39.604	42.130	0.00	0.00
ATOM	8266	O	LIG	X	540	54.934	40.116	49.007	0.00	0.00
ATOM	8267	C11	LIG	X	540	56.362	40.383	48.904	0.00	0.00
ATOM	8268	O1	LIG	X	540	52.613	41.820	49.712	0.00	0.00
ATOM	8269	H1	LIG	X	540	52.876	41.049	50.246	0.00	0.00
ATOM	8270	H2	LIG	X	540	52.084	42.491	45.262	0.00	0.00
ATOM	8271	H3	LIG	X	540	54.886	39.588	46.371	0.00	0.00
ATOM	8272	H4	LIG	X	540	51.629	43.000	47.781	0.00	0.00
ATOM	8273	H5	LIG	X	540	54.589	40.336	44.084	0.00	0.00
ATOM	8274	H6	LIG	X	540	53.518	41.760	43.764	0.00	0.00
ATOM	8275	H7	LIG	X	540	53.163	38.603	45.212	0.00	0.00
ATOM	8276	H8	LIG	X	540	52.166	37.787	43.913	0.00	0.00
ATOM	8277	H9	LIG	X	540	53.943	36.704	43.210	0.00	0.00
ATOM	8278	H10	LIG	X	540	55.092	37.909	43.914	0.00	0.00
ATOM	8279	H11	LIG	X	540	55.226	39.050	41.904	0.00	0.00
ATOM	8280	H12	LIG	X	540	54.029	37.933	41.212	0.00	0.00
ATOM	8281	H13	LIG	X	540	52.371	39.255	41.499	0.00	0.00
ATOM	8282	H14	LIG	X	540	53.394	40.598	41.728	0.00	0.00
ATOM	8283	H15	LIG	X	540	56.901	40.025	49.785	0.00	0.00
ATOM	8284	H16	LIG	X	540	56.599	41.440	48.762	0.00	0.00
ATOM	8285	H17	LIG	X	540	56.578	39.724	48.059	0.00	0.00
ATOM	8286	Na+	Na+	X	541	66.854	76.478	50.735	0.00	0.00
ATOM	8287	Na+	Na+	X	542	57.962	31.996	60.856	0.00	0.00
ATOM	8288	Na+	Na+	X	543	29.010	18.595	56.711	0.00	0.00
ATOM	8289	Na+	Na+	X	544	53.536	22.830	37.375	0.00	0.00
ATOM	8290	Na+	Na+	X	545	51.594	0.886	51.014	0.00	0.00
ATOM	8291	Na+	Na+	X	546	68.707	45.872	47.661	0.00	0.00

END

3-HCl

CRYST1	85.092	85.092	85.092	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	41.693	76.156	30.872	0.00	0.00
ATOM	2	H1	ASP	X	1	42.622	76.551	30.896	0.00	0.00
ATOM	3	H2	ASP	X	1	41.066	76.901	30.602	0.00	0.00
ATOM	4	H3	ASP	X	1	41.639	75.399	30.205	0.00	0.00
ATOM	5	CA	ASP	X	1	41.426	75.669	32.260	0.00	0.00
ATOM	6	HA	ASP	X	1	42.370	75.177	32.496	0.00	0.00
ATOM	7	CB	ASP	X	1	41.233	76.822	33.158	0.00	0.00

ATOM	8	HB2	ASP	X	1	41.922	77.657	33.034	0.00	0.00
ATOM	9	HB3	ASP	X	1	40.230	77.188	32.937	0.00	0.00
ATOM	10	CG	ASP	X	1	41.220	76.307	34.593	0.00	0.00
ATOM	11	OD1	ASP	X	1	40.254	76.593	35.327	0.00	0.00
ATOM	12	OD2	ASP	X	1	42.258	75.655	35.009	0.00	0.00
ATOM	13	C	ASP	X	1	40.332	74.547	32.371	0.00	0.00
ATOM	14	O	ASP	X	1	40.557	73.465	32.870	0.00	0.00
ATOM	15	N	ALA	X	2	39.158	74.945	31.933	0.00	0.00
ATOM	16	H	ALA	X	2	39.087	75.885	31.571	0.00	0.00
ATOM	17	CA	ALA	X	2	37.827	74.337	31.931	0.00	0.00
ATOM	18	HA	ALA	X	2	37.381	74.462	32.918	0.00	0.00
ATOM	19	CB	ALA	X	2	37.014	75.162	30.920	0.00	0.00
ATOM	20	HB1	ALA	X	2	37.392	74.996	29.911	0.00	0.00
ATOM	21	HB2	ALA	X	2	36.020	74.717	30.921	0.00	0.00
ATOM	22	HB3	ALA	X	2	37.022	76.249	30.998	0.00	0.00
ATOM	23	C	ALA	X	2	37.775	72.840	31.534	0.00	0.00
ATOM	24	O	ALA	X	2	36.841	72.154	31.938	0.00	0.00
ATOM	25	N	GLU	X	3	38.631	72.405	30.679	0.00	0.00
ATOM	26	H	GLU	X	3	39.325	73.004	30.256	0.00	0.00
ATOM	27	CA	GLU	X	3	38.593	70.942	30.305	0.00	0.00
ATOM	28	HA	GLU	X	3	37.557	70.612	30.384	0.00	0.00
ATOM	29	CB	GLU	X	3	39.035	70.752	28.859	0.00	0.00
ATOM	30	HB2	GLU	X	3	39.996	71.244	28.705	0.00	0.00
ATOM	31	HB3	GLU	X	3	39.191	69.687	28.684	0.00	0.00
ATOM	32	CG	GLU	X	3	37.991	71.229	27.748	0.00	0.00
ATOM	33	HG2	GLU	X	3	38.340	70.765	26.825	0.00	0.00
ATOM	34	HG3	GLU	X	3	36.986	70.892	28.004	0.00	0.00
ATOM	35	CD	GLU	X	3	37.807	72.742	27.634	0.00	0.00
ATOM	36	OE1	GLU	X	3	38.798	73.484	27.482	0.00	0.00
ATOM	37	OE2	GLU	X	3	36.648	73.201	27.499	0.00	0.00
ATOM	38	C	GLU	X	3	39.340	70.039	31.293	0.00	0.00
ATOM	39	O	GLU	X	3	38.985	68.842	31.379	0.00	0.00
ATOM	40	N	LEU	X	4	40.055	70.671	32.166	0.00	0.00
ATOM	41	H	LEU	X	4	40.147	71.667	32.025	0.00	0.00
ATOM	42	CA	LEU	X	4	40.744	70.034	33.336	0.00	0.00
ATOM	43	HA	LEU	X	4	40.606	68.952	33.327	0.00	0.00
ATOM	44	CB	LEU	X	4	42.245	70.463	33.421	0.00	0.00
ATOM	45	HB2	LEU	X	4	42.344	71.535	33.588	0.00	0.00
ATOM	46	HB3	LEU	X	4	42.746	69.947	34.240	0.00	0.00
ATOM	47	CG	LEU	X	4	43.075	70.119	32.141	0.00	0.00
ATOM	48	HG	LEU	X	4	42.536	70.610	31.331	0.00	0.00
ATOM	49	CD1	LEU	X	4	44.460	70.652	32.028	0.00	0.00
ATOM	50	HD11	LEU	X	4	45.002	70.231	32.875	0.00	0.00
ATOM	51	HD12	LEU	X	4	44.876	70.302	31.083	0.00	0.00
ATOM	52	HD13	LEU	X	4	44.376	71.738	31.990	0.00	0.00
ATOM	53	CD2	LEU	X	4	43.045	68.621	31.864	0.00	0.00
ATOM	54	HD21	LEU	X	4	43.437	68.203	32.792	0.00	0.00
ATOM	55	HD22	LEU	X	4	42.028	68.264	31.709	0.00	0.00
ATOM	56	HD23	LEU	X	4	43.645	68.361	30.992	0.00	0.00
ATOM	57	C	LEU	X	4	40.007	70.341	34.610	0.00	0.00
ATOM	58	O	LEU	X	4	40.155	69.620	35.593	0.00	0.00
ATOM	59	N	LEU	X	5	39.288	71.430	34.663	0.00	0.00
ATOM	60	H	LEU	X	5	39.143	72.021	33.856	0.00	0.00
ATOM	61	CA	LEU	X	5	38.527	71.831	35.806	0.00	0.00
ATOM	62	HA	LEU	X	5	39.087	71.485	36.675	0.00	0.00
ATOM	63	CB	LEU	X	5	38.520	73.369	35.827	0.00	0.00
ATOM	64	HB2	LEU	X	5	39.576	73.637	35.795	0.00	0.00
ATOM	65	HB3	LEU	X	5	38.141	73.716	34.866	0.00	0.00
ATOM	66	CG	LEU	X	5	37.690	74.113	36.939	0.00	0.00
ATOM	67	HG	LEU	X	5	37.932	75.152	36.714	0.00	0.00
ATOM	68	CD1	LEU	X	5	36.114	73.917	36.740	0.00	0.00
ATOM	69	HD11	LEU	X	5	35.778	74.823	37.245	0.00	0.00
ATOM	70	HD12	LEU	X	5	35.943	74.001	35.666	0.00	0.00
ATOM	71	HD13	LEU	X	5	35.682	73.077	37.284	0.00	0.00
ATOM	72	CD2	LEU	X	5	38.083	73.681	38.318	0.00	0.00
ATOM	73	HD21	LEU	X	5	37.764	72.674	38.588	0.00	0.00
ATOM	74	HD22	LEU	X	5	39.155	73.854	38.407	0.00	0.00
ATOM	75	HD23	LEU	X	5	37.632	74.352	39.049	0.00	0.00
ATOM	76	C	LEU	X	5	37.148	71.186	35.666	0.00	0.00
ATOM	77	O	LEU	X	5	36.524	71.349	34.618	0.00	0.00

ATOM	78	N	VAL	X	6	36.619	70.598	36.699	0.00	0.00
ATOM	79	H	VAL	X	6	37.110	70.635	37.581	0.00	0.00
ATOM	80	CA	VAL	X	6	35.291	69.786	36.719	0.00	0.00
ATOM	81	HA	VAL	X	6	34.594	70.196	35.988	0.00	0.00
ATOM	82	CB	VAL	X	6	35.615	68.331	36.274	0.00	0.00
ATOM	83	HB	VAL	X	6	36.307	68.449	35.439	0.00	0.00
ATOM	84	CG1	VAL	X	6	36.293	67.426	37.338	0.00	0.00
ATOM	85	HG11	VAL	X	6	37.247	67.895	37.581	0.00	0.00
ATOM	86	HG12	VAL	X	6	35.665	67.449	38.229	0.00	0.00
ATOM	87	HG13	VAL	X	6	36.456	66.416	36.964	0.00	0.00
ATOM	88	CG2	VAL	X	6	34.450	67.572	35.548	0.00	0.00
ATOM	89	HG21	VAL	X	6	34.061	68.118	34.687	0.00	0.00
ATOM	90	HG22	VAL	X	6	34.900	66.676	35.121	0.00	0.00
ATOM	91	HG23	VAL	X	6	33.692	67.205	36.240	0.00	0.00
ATOM	92	C	VAL	X	6	34.692	69.734	38.071	0.00	0.00
ATOM	93	O	VAL	X	6	35.387	70.105	39.047	0.00	0.00
ATOM	94	N	THR	X	7	33.376	69.466	38.244	0.00	0.00
ATOM	95	H	THR	X	7	32.936	69.076	37.423	0.00	0.00
ATOM	96	CA	THR	X	7	32.666	69.446	39.588	0.00	0.00
ATOM	97	HA	THR	X	7	33.445	69.495	40.348	0.00	0.00
ATOM	98	CB	THR	X	7	31.687	70.550	39.773	0.00	0.00
ATOM	99	HB	THR	X	7	30.878	70.276	39.096	0.00	0.00
ATOM	100	CG2	THR	X	7	31.238	70.814	41.157	0.00	0.00
ATOM	101	HG21	THR	X	7	30.592	71.688	41.240	0.00	0.00
ATOM	102	HG22	THR	X	7	30.762	69.899	41.509	0.00	0.00
ATOM	103	HG23	THR	X	7	32.052	71.120	41.815	0.00	0.00
ATOM	104	OG1	THR	X	7	32.267	71.717	39.193	0.00	0.00
ATOM	105	HG1	THR	X	7	31.549	72.107	38.689	0.00	0.00
ATOM	106	C	THR	X	7	32.039	68.074	39.832	0.00	0.00
ATOM	107	O	THR	X	7	31.377	67.504	38.957	0.00	0.00
ATOM	108	N	VAL	X	8	32.256	67.561	41.050	0.00	0.00
ATOM	109	H	VAL	X	8	32.660	68.201	41.719	0.00	0.00
ATOM	110	CA	VAL	X	8	31.580	66.253	41.426	0.00	0.00
ATOM	111	HA	VAL	X	8	30.905	65.892	40.651	0.00	0.00
ATOM	112	CB	VAL	X	8	32.517	65.101	41.790	0.00	0.00
ATOM	113	HB	VAL	X	8	32.003	64.179	42.060	0.00	0.00
ATOM	114	CG1	VAL	X	8	33.294	64.765	40.538	0.00	0.00
ATOM	115	HG11	VAL	X	8	33.812	65.695	40.302	0.00	0.00
ATOM	116	HG12	VAL	X	8	34.046	64.015	40.784	0.00	0.00
ATOM	117	HG13	VAL	X	8	32.757	64.420	39.655	0.00	0.00
ATOM	118	CG2	VAL	X	8	33.521	65.534	42.808	0.00	0.00
ATOM	119	HG21	VAL	X	8	34.179	64.710	43.084	0.00	0.00
ATOM	120	HG22	VAL	X	8	34.151	66.387	42.558	0.00	0.00
ATOM	121	HG23	VAL	X	8	33.174	65.838	43.795	0.00	0.00
ATOM	122	C	VAL	X	8	30.692	66.625	42.629	0.00	0.00
ATOM	123	O	VAL	X	8	30.692	67.793	43.051	0.00	0.00
ATOM	124	N	ARG	X	9	29.925	65.651	43.130	0.00	0.00
ATOM	125	H	ARG	X	9	30.117	64.732	42.756	0.00	0.00
ATOM	126	CA	ARG	X	9	28.856	65.925	44.115	0.00	0.00
ATOM	127	HA	ARG	X	9	28.267	66.768	43.753	0.00	0.00
ATOM	128	CB	ARG	X	9	27.921	64.728	44.360	0.00	0.00
ATOM	129	HB2	ARG	X	9	27.795	64.205	43.412	0.00	0.00
ATOM	130	HB3	ARG	X	9	28.321	64.024	45.090	0.00	0.00
ATOM	131	CG	ARG	X	9	26.483	65.217	44.752	0.00	0.00
ATOM	132	HG2	ARG	X	9	26.319	65.423	45.809	0.00	0.00
ATOM	133	HG3	ARG	X	9	26.125	66.034	44.125	0.00	0.00
ATOM	134	CD	ARG	X	9	25.591	63.984	44.526	0.00	0.00
ATOM	135	HD2	ARG	X	9	25.586	63.691	43.476	0.00	0.00
ATOM	136	HD3	ARG	X	9	25.943	63.093	45.047	0.00	0.00
ATOM	137	NE	ARG	X	9	24.232	64.199	45.070	0.00	0.00
ATOM	138	HE	ARG	X	9	23.943	65.149	45.255	0.00	0.00
ATOM	139	CZ	ARG	X	9	23.338	63.448	45.655	0.00	0.00
ATOM	140	NH1	ARG	X	9	23.479	62.147	45.767	0.00	0.00
ATOM	141	HH11	ARG	X	9	24.265	61.662	45.359	0.00	0.00
ATOM	142	HH12	ARG	X	9	22.900	61.604	46.392	0.00	0.00
ATOM	143	NH2	ARG	X	9	22.342	64.077	46.254	0.00	0.00
ATOM	144	HH21	ARG	X	9	22.224	65.072	46.124	0.00	0.00
ATOM	145	HH22	ARG	X	9	21.589	63.590	46.718	0.00	0.00
ATOM	146	C	ARG	X	9	29.397	66.409	45.472	0.00	0.00
ATOM	147	O	ARG	X	9	28.647	66.908	46.270	0.00	0.00

ATOM	148	N	GLY	X	10	30.700	66.341	45.749	0.00	0.00
ATOM	149	H	GLY	X	10	31.174	65.599	45.254	0.00	0.00
ATOM	150	CA	GLY	X	10	31.353	66.965	46.894	0.00	0.00
ATOM	151	HA2	GLY	X	10	30.599	66.971	47.656	0.00	0.00
ATOM	152	HA3	GLY	X	10	32.259	66.423	47.050	0.00	0.00
ATOM	153	C	GLY	X	10	31.829	68.431	46.682	0.00	0.00
ATOM	154	O	GLY	X	10	31.958	69.169	47.658	0.00	0.00
ATOM	155	N	GLY	X	11	32.136	68.817	45.424	0.00	0.00
ATOM	156	H	GLY	X	11	31.974	68.163	44.672	0.00	0.00
ATOM	157	CA	GLY	X	11	32.772	70.082	44.999	0.00	0.00
ATOM	158	HA2	GLY	X	11	32.038	70.854	44.922	0.00	0.00
ATOM	159	HA3	GLY	X	11	33.385	70.352	45.702	0.00	0.00
ATOM	160	C	GLY	X	11	33.551	70.092	43.707	0.00	0.00
ATOM	161	O	GLY	X	11	33.581	69.208	42.899	0.00	0.00
ATOM	162	N	ARG	X	12	34.456	71.106	43.658	0.00	0.00
ATOM	163	H	ARG	X	12	34.372	71.801	44.387	0.00	0.00
ATOM	164	CA	ARG	X	12	35.243	71.320	42.460	0.00	0.00
ATOM	165	HA	ARG	X	12	34.777	70.910	41.563	0.00	0.00
ATOM	166	CB	ARG	X	12	35.473	72.739	42.154	0.00	0.00
ATOM	167	HB2	ARG	X	12	36.103	73.127	42.954	0.00	0.00
ATOM	168	HB3	ARG	X	12	35.942	72.838	41.176	0.00	0.00
ATOM	169	CG	ARG	X	12	34.161	73.568	42.133	0.00	0.00
ATOM	170	HG2	ARG	X	12	33.651	73.292	41.210	0.00	0.00
ATOM	171	HG3	ARG	X	12	33.554	73.386	43.020	0.00	0.00
ATOM	172	CD	ARG	X	12	34.503	75.078	42.068	0.00	0.00
ATOM	173	HD2	ARG	X	12	34.925	75.422	43.012	0.00	0.00
ATOM	174	HD3	ARG	X	12	35.284	75.216	41.319	0.00	0.00
ATOM	175	NE	ARG	X	12	33.233	75.795	41.769	0.00	0.00
ATOM	176	HE	ARG	X	12	32.450	75.591	42.374	0.00	0.00
ATOM	177	CZ	ARG	X	12	32.998	76.683	40.784	0.00	0.00
ATOM	178	NH1	ARG	X	12	33.930	77.159	39.980	0.00	0.00
ATOM	179	HH11	ARG	X	12	34.914	76.937	40.024	0.00	0.00
ATOM	180	HH12	ARG	X	12	33.605	77.831	39.300	0.00	0.00
ATOM	181	NH2	ARG	X	12	31.744	77.135	40.669	0.00	0.00
ATOM	182	HH21	ARG	X	12	31.129	76.816	41.404	0.00	0.00
ATOM	183	HH22	ARG	X	12	31.396	77.764	39.959	0.00	0.00
ATOM	184	C	ARG	X	12	36.597	70.604	42.557	0.00	0.00
ATOM	185	O	ARG	X	12	37.183	70.602	43.636	0.00	0.00
ATOM	186	N	LEU	X	13	37.016	70.056	41.452	0.00	0.00
ATOM	187	H	LEU	X	13	36.498	70.338	40.632	0.00	0.00
ATOM	188	CA	LEU	X	13	38.321	69.513	41.235	0.00	0.00
ATOM	189	HA	LEU	X	13	39.011	69.706	42.056	0.00	0.00
ATOM	190	CB	LEU	X	13	38.172	67.995	41.074	0.00	0.00
ATOM	191	HB2	LEU	X	13	37.560	67.918	40.176	0.00	0.00
ATOM	192	HB3	LEU	X	13	39.186	67.614	40.953	0.00	0.00
ATOM	193	CG	LEU	X	13	37.551	67.066	42.194	0.00	0.00
ATOM	194	HG	LEU	X	13	36.599	67.472	42.537	0.00	0.00
ATOM	195	CD1	LEU	X	13	37.326	65.729	41.523	0.00	0.00
ATOM	196	HD11	LEU	X	13	37.082	64.931	42.224	0.00	0.00
ATOM	197	HD12	LEU	X	13	36.635	65.818	40.685	0.00	0.00
ATOM	198	HD13	LEU	X	13	38.240	65.389	41.035	0.00	0.00
ATOM	199	CD2	LEU	X	13	38.447	66.984	43.433	0.00	0.00
ATOM	200	HD21	LEU	X	13	39.277	66.302	43.247	0.00	0.00
ATOM	201	HD22	LEU	X	13	38.873	67.953	43.692	0.00	0.00
ATOM	202	HD23	LEU	X	13	37.743	66.562	44.150	0.00	0.00
ATOM	203	C	LEU	X	13	38.976	70.028	39.988	0.00	0.00
ATOM	204	O	LEU	X	13	38.289	70.189	38.951	0.00	0.00
ATOM	205	N	ARG	X	14	40.295	69.953	40.039	0.00	0.00
ATOM	206	H	ARG	X	14	40.792	69.812	40.906	0.00	0.00
ATOM	207	CA	ARG	X	14	41.145	70.223	38.922	0.00	0.00
ATOM	208	HA	ARG	X	14	40.539	70.106	38.023	0.00	0.00
ATOM	209	CB	ARG	X	14	41.591	71.712	38.930	0.00	0.00
ATOM	210	HB2	ARG	X	14	40.751	72.405	38.889	0.00	0.00
ATOM	211	HB3	ARG	X	14	42.262	71.828	39.780	0.00	0.00
ATOM	212	CG	ARG	X	14	42.328	72.081	37.646	0.00	0.00
ATOM	213	HG2	ARG	X	14	43.126	71.346	37.538	0.00	0.00
ATOM	214	HG3	ARG	X	14	41.732	72.047	36.735	0.00	0.00
ATOM	215	CD	ARG	X	14	43.120	73.459	37.580	0.00	0.00
ATOM	216	HD2	ARG	X	14	43.992	73.577	38.223	0.00	0.00
ATOM	217	HD3	ARG	X	14	43.596	73.489	36.600	0.00	0.00

ATOM	218	NE	ARG	X	14	42.155	74.629	37.510	0.00	0.00
ATOM	219	HE	ARG	X	14	41.813	74.938	36.611	0.00	0.00
ATOM	220	CZ	ARG	X	14	41.770	75.414	38.493	0.00	0.00
ATOM	221	NH1	ARG	X	14	42.244	75.344	39.711	0.00	0.00
ATOM	222	HH11	ARG	X	14	42.910	74.608	39.897	0.00	0.00
ATOM	223	HH12	ARG	X	14	42.047	76.051	40.404	0.00	0.00
ATOM	224	NH2	ARG	X	14	40.947	76.387	38.169	0.00	0.00
ATOM	225	HH21	ARG	X	14	40.559	76.471	37.240	0.00	0.00
ATOM	226	HH22	ARG	X	14	40.626	77.070	38.839	0.00	0.00
ATOM	227	C	ARG	X	14	42.263	69.222	38.728	0.00	0.00
ATOM	228	O	ARG	X	14	43.106	69.089	39.596	0.00	0.00
ATOM	229	N	GLY	X	15	42.290	68.749	37.487	0.00	0.00
ATOM	230	H	GLY	X	15	41.610	69.140	36.852	0.00	0.00
ATOM	231	CA	GLY	X	15	43.299	67.778	37.077	0.00	0.00
ATOM	232	HA2	GLY	X	15	43.783	67.398	38.027	0.00	0.00
ATOM	233	HA3	GLY	X	15	42.709	67.069	36.564	0.00	0.00
ATOM	234	C	GLY	X	15	44.318	68.311	36.062	0.00	0.00
ATOM	235	O	GLY	X	15	44.801	69.481	35.944	0.00	0.00
ATOM	236	N	ILE	X	16	44.823	67.333	35.251	0.00	0.00
ATOM	237	H	ILE	X	16	44.644	66.347	35.376	0.00	0.00
ATOM	238	CA	ILE	X	16	45.941	67.530	34.350	0.00	0.00
ATOM	239	HA	ILE	X	16	45.957	68.605	34.171	0.00	0.00
ATOM	240	CB	ILE	X	16	47.166	67.041	35.147	0.00	0.00
ATOM	241	HB	ILE	X	16	48.041	67.152	34.507	0.00	0.00
ATOM	242	CG2	ILE	X	16	47.506	68.016	36.296	0.00	0.00
ATOM	243	HG21	ILE	X	16	46.948	67.531	37.098	0.00	0.00
ATOM	244	HG22	ILE	X	16	48.560	68.072	36.566	0.00	0.00
ATOM	245	HG23	ILE	X	16	47.204	69.047	36.112	0.00	0.00
ATOM	246	CG1	ILE	X	16	47.075	65.600	35.633	0.00	0.00
ATOM	247	HG12	ILE	X	16	46.264	65.354	36.319	0.00	0.00
ATOM	248	HG13	ILE	X	16	46.808	64.967	34.786	0.00	0.00
ATOM	249	CD1	ILE	X	16	48.407	65.043	36.152	0.00	0.00
ATOM	250	HD11	ILE	X	16	48.768	65.699	36.944	0.00	0.00
ATOM	251	HD12	ILE	X	16	48.307	64.042	36.571	0.00	0.00
ATOM	252	HD13	ILE	X	16	49.174	65.026	35.378	0.00	0.00
ATOM	253	C	ILE	X	16	45.883	66.924	32.982	0.00	0.00
ATOM	254	O	ILE	X	16	45.282	65.865	32.801	0.00	0.00
ATOM	255	N	ARG	X	17	46.675	67.441	32.032	0.00	0.00
ATOM	256	H	ARG	X	17	47.193	68.305	32.100	0.00	0.00
ATOM	257	CA	ARG	X	17	46.881	66.728	30.849	0.00	0.00
ATOM	258	HA	ARG	X	17	46.073	66.034	30.620	0.00	0.00
ATOM	259	CB	ARG	X	17	46.911	67.736	29.692	0.00	0.00
ATOM	260	HB2	ARG	X	17	46.000	68.328	29.779	0.00	0.00
ATOM	261	HB3	ARG	X	17	47.693	68.467	29.897	0.00	0.00
ATOM	262	CG	ARG	X	17	47.011	67.119	28.286	0.00	0.00
ATOM	263	HG2	ARG	X	17	47.916	66.535	28.116	0.00	0.00
ATOM	264	HG3	ARG	X	17	46.252	66.357	28.110	0.00	0.00
ATOM	265	CD	ARG	X	17	46.846	68.181	27.205	0.00	0.00
ATOM	266	HD2	ARG	X	17	46.590	67.707	26.258	0.00	0.00
ATOM	267	HD3	ARG	X	17	46.088	68.911	27.489	0.00	0.00
ATOM	268	NE	ARG	X	17	48.137	68.872	27.037	0.00	0.00
ATOM	269	HE	ARG	X	17	48.280	69.833	27.310	0.00	0.00
ATOM	270	CZ	ARG	X	17	49.239	68.353	26.410	0.00	0.00
ATOM	271	NH1	ARG	X	17	49.300	67.092	26.035	0.00	0.00
ATOM	272	HH11	ARG	X	17	48.430	66.588	25.931	0.00	0.00
ATOM	273	HH12	ARG	X	17	50.152	66.771	25.600	0.00	0.00
ATOM	274	NH2	ARG	X	17	50.264	69.115	26.088	0.00	0.00
ATOM	275	HH21	ARG	X	17	50.344	70.073	26.396	0.00	0.00
ATOM	276	HH22	ARG	X	17	50.991	68.751	25.489	0.00	0.00
ATOM	277	C	ARG	X	17	48.097	65.753	30.989	0.00	0.00
ATOM	278	O	ARG	X	17	49.251	66.192	31.325	0.00	0.00
ATOM	279	N	LEU	X	18	47.996	64.460	30.568	0.00	0.00
ATOM	280	H	LEU	X	18	47.072	64.201	30.252	0.00	0.00
ATOM	281	CA	LEU	X	18	49.102	63.478	30.431	0.00	0.00
ATOM	282	HA	LEU	X	18	50.040	63.828	30.863	0.00	0.00
ATOM	283	CB	LEU	X	18	48.676	62.155	31.074	0.00	0.00
ATOM	284	HB2	LEU	X	18	47.729	61.863	30.620	0.00	0.00
ATOM	285	HB3	LEU	X	18	49.367	61.352	30.817	0.00	0.00
ATOM	286	CG	LEU	X	18	48.417	61.993	32.547	0.00	0.00
ATOM	287	HG	LEU	X	18	47.365	62.257	32.655	0.00	0.00

ATOM	288	CD1	LEU	X	18	48.553	60.466	32.813	0.00	0.00
ATOM	289	HD11	LEU	X	18	47.777	59.965	32.235	0.00	0.00
ATOM	290	HD12	LEU	X	18	49.485	60.031	32.453	0.00	0.00
ATOM	291	HD13	LEU	X	18	48.413	60.263	33.875	0.00	0.00
ATOM	292	CD2	LEU	X	18	49.303	62.866	33.332	0.00	0.00
ATOM	293	HD21	LEU	X	18	49.144	63.935	33.192	0.00	0.00
ATOM	294	HD22	LEU	X	18	48.942	62.781	34.357	0.00	0.00
ATOM	295	HD23	LEU	X	18	50.300	62.438	33.221	0.00	0.00
ATOM	296	C	LEU	X	18	49.563	63.321	28.956	0.00	0.00
ATOM	297	O	LEU	X	18	48.700	63.302	28.049	0.00	0.00
ATOM	298	N	LYS	X	19	50.869	63.116	28.737	0.00	0.00
ATOM	299	H	LYS	X	19	51.482	63.107	29.540	0.00	0.00
ATOM	300	CA	LYS	X	19	51.568	62.994	27.423	0.00	0.00
ATOM	301	HA	LYS	X	19	50.865	63.252	26.630	0.00	0.00
ATOM	302	CB	LYS	X	19	52.815	63.934	27.376	0.00	0.00
ATOM	303	HB2	LYS	X	19	53.544	63.775	28.171	0.00	0.00
ATOM	304	HB3	LYS	X	19	53.443	63.649	26.531	0.00	0.00
ATOM	305	CG	LYS	X	19	52.612	65.456	27.231	0.00	0.00
ATOM	306	HG2	LYS	X	19	53.599	65.791	26.913	0.00	0.00
ATOM	307	HG3	LYS	X	19	51.996	65.902	26.450	0.00	0.00
ATOM	308	CD	LYS	X	19	52.347	66.224	28.515	0.00	0.00
ATOM	309	HD2	LYS	X	19	52.171	67.203	28.070	0.00	0.00
ATOM	310	HD3	LYS	X	19	51.461	65.813	28.998	0.00	0.00
ATOM	311	CE	LYS	X	19	53.471	66.251	29.597	0.00	0.00
ATOM	312	HE2	LYS	X	19	53.659	65.258	30.004	0.00	0.00
ATOM	313	HE3	LYS	X	19	54.364	66.672	29.134	0.00	0.00
ATOM	314	NZ	LYS	X	19	53.148	67.058	30.714	0.00	0.00
ATOM	315	HZ1	LYS	X	19	53.871	67.148	31.414	0.00	0.00
ATOM	316	HZ2	LYS	X	19	52.944	68.003	30.419	0.00	0.00
ATOM	317	HZ3	LYS	X	19	52.489	66.632	31.349	0.00	0.00
ATOM	318	C	LYS	X	19	51.965	61.535	27.086	0.00	0.00
ATOM	319	O	LYS	X	19	52.601	60.845	27.904	0.00	0.00
ATOM	320	N	THR	X	20	51.584	61.007	25.937	0.00	0.00
ATOM	321	H	THR	X	20	50.845	61.417	25.383	0.00	0.00
ATOM	322	CA	THR	X	20	51.750	59.596	25.550	0.00	0.00
ATOM	323	HA	THR	X	20	52.680	59.190	25.949	0.00	0.00
ATOM	324	CB	THR	X	20	50.602	58.799	26.152	0.00	0.00
ATOM	325	HB	THR	X	20	50.623	57.838	25.639	0.00	0.00
ATOM	326	CG2	THR	X	20	50.667	58.534	27.734	0.00	0.00
ATOM	327	HG21	THR	X	20	51.642	58.293	28.157	0.00	0.00
ATOM	328	HG22	THR	X	20	50.341	59.414	28.288	0.00	0.00
ATOM	329	HG23	THR	X	20	50.019	57.674	27.904	0.00	0.00
ATOM	330	OG1	THR	X	20	49.327	59.315	25.970	0.00	0.00
ATOM	331	HG1	THR	X	20	48.928	58.806	25.261	0.00	0.00
ATOM	332	C	THR	X	20	51.842	59.546	24.026	0.00	0.00
ATOM	333	O	THR	X	20	51.282	60.450	23.428	0.00	0.00
ATOM	334	N	PRO	X	21	52.526	58.589	23.385	0.00	0.00
ATOM	335	CD	PRO	X	21	53.039	57.446	24.061	0.00	0.00
ATOM	336	HD2	PRO	X	21	52.211	56.874	24.479	0.00	0.00
ATOM	337	HD3	PRO	X	21	53.752	57.669	24.854	0.00	0.00
ATOM	338	CG	PRO	X	21	53.690	56.587	23.038	0.00	0.00
ATOM	339	HG2	PRO	X	21	53.003	55.767	22.831	0.00	0.00
ATOM	340	HG3	PRO	X	21	54.673	56.305	23.416	0.00	0.00
ATOM	341	CB	PRO	X	21	53.802	57.465	21.763	0.00	0.00
ATOM	342	HB2	PRO	X	21	53.193	56.958	21.015	0.00	0.00
ATOM	343	HB3	PRO	X	21	54.832	57.540	21.415	0.00	0.00
ATOM	344	CA	PRO	X	21	52.980	58.711	21.994	0.00	0.00
ATOM	345	HA	PRO	X	21	53.661	59.562	21.962	0.00	0.00
ATOM	346	C	PRO	X	21	51.918	58.958	20.926	0.00	0.00
ATOM	347	O	PRO	X	21	52.370	59.492	19.882	0.00	0.00
ATOM	348	N	GLY	X	22	50.678	58.558	21.143	0.00	0.00
ATOM	349	H	GLY	X	22	50.487	58.073	22.008	0.00	0.00
ATOM	350	CA	GLY	X	22	49.689	58.439	20.096	0.00	0.00
ATOM	351	HA2	GLY	X	22	50.019	58.933	19.163	0.00	0.00
ATOM	352	HA3	GLY	X	22	49.450	57.408	19.871	0.00	0.00
ATOM	353	C	GLY	X	22	48.362	59.167	20.453	0.00	0.00
ATOM	354	O	GLY	X	22	47.384	58.862	19.852	0.00	0.00
ATOM	355	N	GLY	X	23	48.412	60.052	21.486	0.00	0.00
ATOM	356	H	GLY	X	23	49.276	60.152	22.001	0.00	0.00
ATOM	357	CA	GLY	X	23	47.335	60.997	21.652	0.00	0.00

ATOM	358	HA2	GLY	X	23	47.554	61.920	21.115	0.00	0.00
ATOM	359	HA3	GLY	X	23	46.392	60.488	21.412	0.00	0.00
ATOM	360	C	GLY	X	23	47.198	61.338	23.163	0.00	0.00
ATOM	361	O	GLY	X	23	47.314	60.455	23.988	0.00	0.00
ATOM	362	N	PRO	X	24	46.862	62.581	23.540	0.00	0.00
ATOM	363	CD	PRO	X	24	46.403	63.664	22.640	0.00	0.00
ATOM	364	HD2	PRO	X	24	45.495	63.274	22.179	0.00	0.00
ATOM	365	HD3	PRO	X	24	47.142	64.003	21.914	0.00	0.00
ATOM	366	CG	PRO	X	24	45.988	64.831	23.582	0.00	0.00
ATOM	367	HG2	PRO	X	24	44.924	64.637	23.723	0.00	0.00
ATOM	368	HG3	PRO	X	24	46.164	65.825	23.170	0.00	0.00
ATOM	369	CB	PRO	X	24	46.707	64.596	24.862	0.00	0.00
ATOM	370	HB2	PRO	X	24	46.131	64.902	25.736	0.00	0.00
ATOM	371	HB3	PRO	X	24	47.688	65.071	24.858	0.00	0.00
ATOM	372	CA	PRO	X	24	46.862	63.017	24.902	0.00	0.00
ATOM	373	HA	PRO	X	24	47.812	62.696	25.330	0.00	0.00
ATOM	374	C	PRO	X	24	45.679	62.477	25.686	0.00	0.00
ATOM	375	O	PRO	X	24	44.574	62.310	25.130	0.00	0.00
ATOM	376	N	VAL	X	25	45.813	62.170	26.965	0.00	0.00
ATOM	377	H	VAL	X	25	46.713	62.343	27.389	0.00	0.00
ATOM	378	CA	VAL	X	25	44.903	61.642	27.949	0.00	0.00
ATOM	379	HA	VAL	X	25	43.891	61.504	27.568	0.00	0.00
ATOM	380	CB	VAL	X	25	45.445	60.286	28.468	0.00	0.00
ATOM	381	HB	VAL	X	25	46.528	60.342	28.579	0.00	0.00
ATOM	382	CG1	VAL	X	25	44.785	59.682	29.711	0.00	0.00
ATOM	383	HG11	VAL	X	25	44.886	60.463	30.464	0.00	0.00
ATOM	384	HG12	VAL	X	25	43.696	59.646	29.709	0.00	0.00
ATOM	385	HG13	VAL	X	25	45.172	58.697	29.975	0.00	0.00
ATOM	386	CG2	VAL	X	25	45.234	59.348	27.334	0.00	0.00
ATOM	387	HG21	VAL	X	25	45.494	58.313	27.557	0.00	0.00
ATOM	388	HG22	VAL	X	25	44.246	59.453	26.886	0.00	0.00
ATOM	389	HG23	VAL	X	25	45.921	59.476	26.498	0.00	0.00
ATOM	390	C	VAL	X	25	44.812	62.688	29.092	0.00	0.00
ATOM	391	O	VAL	X	25	45.681	63.499	29.342	0.00	0.00
ATOM	392	N	SER	X	26	43.678	62.741	29.771	0.00	0.00
ATOM	393	H	SER	X	26	42.872	62.155	29.611	0.00	0.00
ATOM	394	CA	SER	X	26	43.426	63.509	30.998	0.00	0.00
ATOM	395	HA	SER	X	26	44.027	64.399	31.181	0.00	0.00
ATOM	396	CB	SER	X	26	41.939	64.163	31.030	0.00	0.00
ATOM	397	HB2	SER	X	26	41.200	63.406	31.293	0.00	0.00
ATOM	398	HB3	SER	X	26	41.793	64.810	31.895	0.00	0.00
ATOM	399	OG	SER	X	26	41.498	64.718	29.825	0.00	0.00
ATOM	400	HG	SER	X	26	41.438	63.955	29.245	0.00	0.00
ATOM	401	C	SER	X	26	43.605	62.558	32.198	0.00	0.00
ATOM	402	O	SER	X	26	43.346	61.358	32.031	0.00	0.00
ATOM	403	N	ALA	X	27	44.082	63.019	33.386	0.00	0.00
ATOM	404	H	ALA	X	27	44.425	63.968	33.425	0.00	0.00
ATOM	405	CA	ALA	X	27	44.169	62.204	34.602	0.00	0.00
ATOM	406	HA	ALA	X	27	43.379	61.465	34.467	0.00	0.00
ATOM	407	CB	ALA	X	27	45.555	61.624	34.676	0.00	0.00
ATOM	408	HB1	ALA	X	27	45.792	60.920	33.878	0.00	0.00
ATOM	409	HB2	ALA	X	27	46.321	62.400	34.701	0.00	0.00
ATOM	410	HB3	ALA	X	27	45.695	60.966	35.533	0.00	0.00
ATOM	411	C	ALA	X	27	43.809	63.052	35.834	0.00	0.00
ATOM	412	O	ALA	X	27	43.855	64.309	35.793	0.00	0.00
ATOM	413	N	PHE	X	28	43.270	62.457	36.881	0.00	0.00
ATOM	414	H	PHE	X	28	43.300	61.447	36.884	0.00	0.00
ATOM	415	CA	PHE	X	28	42.409	62.989	37.896	0.00	0.00
ATOM	416	HA	PHE	X	28	42.730	63.986	38.196	0.00	0.00
ATOM	417	CB	PHE	X	28	40.955	63.192	37.439	0.00	0.00
ATOM	418	HB2	PHE	X	28	40.651	62.247	36.988	0.00	0.00
ATOM	419	HB3	PHE	X	28	40.193	63.289	38.212	0.00	0.00
ATOM	420	CG	PHE	X	28	40.594	64.315	36.499	0.00	0.00
ATOM	421	CD1	PHE	X	28	40.501	63.987	35.139	0.00	0.00
ATOM	422	HD1	PHE	X	28	40.607	62.981	34.759	0.00	0.00
ATOM	423	CE1	PHE	X	28	40.091	64.968	34.217	0.00	0.00
ATOM	424	HE1	PHE	X	28	39.946	64.707	33.179	0.00	0.00
ATOM	425	CZ	PHE	X	28	39.656	66.217	34.713	0.00	0.00
ATOM	426	HZ	PHE	X	28	39.289	66.846	33.915	0.00	0.00
ATOM	427	CE2	PHE	X	28	39.820	66.566	36.050	0.00	0.00

ATOM	428	HE2	PHE	X	28	39.435	67.530	36.347	0.00	0.00
ATOM	429	CD2	PHE	X	28	40.323	65.596	36.945	0.00	0.00
ATOM	430	HD2	PHE	X	28	40.395	65.757	38.010	0.00	0.00
ATOM	431	C	PHE	X	28	42.573	62.177	39.186	0.00	0.00
ATOM	432	O	PHE	X	28	41.974	61.114	39.284	0.00	0.00
ATOM	433	N	LEU	X	29	43.465	62.544	40.098	0.00	0.00
ATOM	434	H	LEU	X	29	44.053	63.295	39.767	0.00	0.00
ATOM	435	CA	LEU	X	29	44.078	61.602	41.101	0.00	0.00
ATOM	436	HA	LEU	X	29	43.675	60.589	41.071	0.00	0.00
ATOM	437	CB	LEU	X	29	45.565	61.612	40.858	0.00	0.00
ATOM	438	HB2	LEU	X	29	45.922	62.638	40.945	0.00	0.00
ATOM	439	HB3	LEU	X	29	46.010	60.919	41.573	0.00	0.00
ATOM	440	CG	LEU	X	29	45.985	61.240	39.423	0.00	0.00
ATOM	441	HG	LEU	X	29	45.576	61.954	38.708	0.00	0.00
ATOM	442	CD1	LEU	X	29	47.496	61.474	39.353	0.00	0.00
ATOM	443	HD11	LEU	X	29	47.996	60.865	40.106	0.00	0.00
ATOM	444	HD12	LEU	X	29	47.869	61.192	38.368	0.00	0.00
ATOM	445	HD13	LEU	X	29	47.659	62.548	39.447	0.00	0.00
ATOM	446	CD2	LEU	X	29	45.592	59.870	38.849	0.00	0.00
ATOM	447	HD21	LEU	X	29	46.107	59.060	39.363	0.00	0.00
ATOM	448	HD22	LEU	X	29	44.506	59.793	38.913	0.00	0.00
ATOM	449	HD23	LEU	X	29	45.934	59.893	37.814	0.00	0.00
ATOM	450	C	LEU	X	29	43.859	62.087	42.525	0.00	0.00
ATOM	451	O	LEU	X	29	43.919	63.241	42.948	0.00	0.00
ATOM	452	N	GLY	X	30	43.679	61.067	43.376	0.00	0.00
ATOM	453	H	GLY	X	30	43.715	60.132	42.996	0.00	0.00
ATOM	454	CA	GLY	X	30	43.526	61.281	44.811	0.00	0.00
ATOM	455	HA2	GLY	X	30	43.598	60.418	45.379	0.00	0.00
ATOM	456	HA3	GLY	X	30	44.203	62.038	45.227	0.00	0.00
ATOM	457	C	GLY	X	30	42.216	61.916	45.263	0.00	0.00
ATOM	458	O	GLY	X	30	42.241	62.665	46.229	0.00	0.00
ATOM	459	N	ILE	X	31	41.168	61.717	44.511	0.00	0.00
ATOM	460	H	ILE	X	31	41.267	61.128	43.697	0.00	0.00
ATOM	461	CA	ILE	X	31	39.885	62.349	44.730	0.00	0.00
ATOM	462	HA	ILE	X	31	39.990	63.424	44.580	0.00	0.00
ATOM	463	CB	ILE	X	31	38.916	61.922	43.566	0.00	0.00
ATOM	464	HB	ILE	X	31	38.929	60.832	43.559	0.00	0.00
ATOM	465	CG2	ILE	X	31	37.488	62.356	43.991	0.00	0.00
ATOM	466	HG21	ILE	X	31	37.126	61.921	44.923	0.00	0.00
ATOM	467	HG22	ILE	X	31	37.386	63.440	43.948	0.00	0.00
ATOM	468	HG23	ILE	X	31	36.761	62.033	43.247	0.00	0.00
ATOM	469	CG1	ILE	X	31	39.506	62.537	42.198	0.00	0.00
ATOM	470	HG12	ILE	X	31	39.392	63.621	42.172	0.00	0.00
ATOM	471	HG13	ILE	X	31	40.492	62.089	42.077	0.00	0.00
ATOM	472	CD1	ILE	X	31	38.710	62.076	40.955	0.00	0.00
ATOM	473	HD11	ILE	X	31	38.869	62.780	40.138	0.00	0.00
ATOM	474	HD12	ILE	X	31	39.174	61.135	40.660	0.00	0.00
ATOM	475	HD13	ILE	X	31	37.626	62.084	41.066	0.00	0.00
ATOM	476	C	ILE	X	31	39.356	61.908	46.156	0.00	0.00
ATOM	477	O	ILE	X	31	39.292	60.691	46.331	0.00	0.00
ATOM	478	N	PRO	X	32	39.114	62.760	47.153	0.00	0.00
ATOM	479	CD	PRO	X	32	39.050	64.208	47.004	0.00	0.00
ATOM	480	HD2	PRO	X	32	38.555	64.535	46.089	0.00	0.00
ATOM	481	HD3	PRO	X	32	40.080	64.564	47.010	0.00	0.00
ATOM	482	CG	PRO	X	32	38.375	64.665	48.308	0.00	0.00
ATOM	483	HG2	PRO	X	32	37.311	64.778	48.100	0.00	0.00
ATOM	484	HG3	PRO	X	32	38.809	65.621	48.602	0.00	0.00
ATOM	485	CB	PRO	X	32	38.748	63.508	49.239	0.00	0.00
ATOM	486	HB2	PRO	X	32	38.094	63.463	50.109	0.00	0.00
ATOM	487	HB3	PRO	X	32	39.781	63.593	49.576	0.00	0.00
ATOM	488	CA	PRO	X	32	38.560	62.294	48.451	0.00	0.00
ATOM	489	HA	PRO	X	32	39.193	61.475	48.791	0.00	0.00
ATOM	490	C	PRO	X	32	37.114	61.785	48.389	0.00	0.00
ATOM	491	O	PRO	X	32	36.162	62.440	47.890	0.00	0.00
ATOM	492	N	PHE	X	33	36.786	60.682	48.990	0.00	0.00
ATOM	493	H	PHE	X	33	37.463	60.058	49.405	0.00	0.00
ATOM	494	CA	PHE	X	33	35.511	60.022	48.650	0.00	0.00
ATOM	495	HA	PHE	X	33	34.867	60.834	48.314	0.00	0.00
ATOM	496	CB	PHE	X	33	35.717	58.990	47.514	0.00	0.00
ATOM	497	HB2	PHE	X	33	34.774	58.926	46.971	0.00	0.00

ATOM	498	HB3	PHE	X	33	36.436	59.375	46.791	0.00	0.00
ATOM	499	CG	PHE	X	33	36.194	57.581	48.016	0.00	0.00
ATOM	500	CD1	PHE	X	33	35.229	56.598	48.311	0.00	0.00
ATOM	501	HD1	PHE	X	33	34.184	56.866	48.259	0.00	0.00
ATOM	502	CE1	PHE	X	33	35.691	55.280	48.530	0.00	0.00
ATOM	503	HE1	PHE	X	33	34.938	54.536	48.745	0.00	0.00
ATOM	504	CZ	PHE	X	33	37.066	54.915	48.483	0.00	0.00
ATOM	505	HZ	PHE	X	33	37.353	53.899	48.712	0.00	0.00
ATOM	506	CE2	PHE	X	33	38.021	55.896	48.171	0.00	0.00
ATOM	507	HE2	PHE	X	33	39.064	55.632	48.266	0.00	0.00
ATOM	508	CD2	PHE	X	33	37.583	57.202	47.909	0.00	0.00
ATOM	509	HD2	PHE	X	33	38.347	57.945	47.732	0.00	0.00
ATOM	510	C	PHE	X	33	34.800	59.395	49.811	0.00	0.00
ATOM	511	O	PHE	X	33	33.538	59.541	49.826	0.00	0.00
ATOM	512	N	ALA	X	34	35.532	58.884	50.786	0.00	0.00
ATOM	513	H	ALA	X	34	36.538	58.870	50.697	0.00	0.00
ATOM	514	CA	ALA	X	34	35.037	58.761	52.132	0.00	0.00
ATOM	515	HA	ALA	X	34	33.954	58.864	52.073	0.00	0.00
ATOM	516	CB	ALA	X	34	35.266	57.288	52.657	0.00	0.00
ATOM	517	HB1	ALA	X	34	36.329	57.061	52.734	0.00	0.00
ATOM	518	HB2	ALA	X	34	34.815	57.247	53.649	0.00	0.00
ATOM	519	HB3	ALA	X	34	34.842	56.652	51.879	0.00	0.00
ATOM	520	C	ALA	X	34	35.553	59.902	53.086	0.00	0.00
ATOM	521	O	ALA	X	34	36.468	60.622	52.796	0.00	0.00
ATOM	522	N	GLU	X	35	34.984	59.992	54.254	0.00	0.00
ATOM	523	H	GLU	X	35	34.132	59.469	54.392	0.00	0.00
ATOM	524	CA	GLU	X	35	35.597	60.682	55.378	0.00	0.00
ATOM	525	HA	GLU	X	35	35.880	61.696	55.095	0.00	0.00
ATOM	526	CB	GLU	X	35	34.651	60.792	56.539	0.00	0.00
ATOM	527	HB2	GLU	X	35	34.330	59.768	56.733	0.00	0.00
ATOM	528	HB3	GLU	X	35	35.185	61.224	57.385	0.00	0.00
ATOM	529	CG	GLU	X	35	33.419	61.691	56.248	0.00	0.00
ATOM	530	HG2	GLU	X	35	33.020	61.402	55.276	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.676	61.510	57.025	0.00	0.00
ATOM	532	CD	GLU	X	35	33.821	63.179	56.316	0.00	0.00
ATOM	533	OE1	GLU	X	35	34.088	63.794	55.266	0.00	0.00
ATOM	534	OE2	GLU	X	35	34.011	63.703	57.434	0.00	0.00
ATOM	535	C	GLU	X	35	36.813	59.878	55.831	0.00	0.00
ATOM	536	O	GLU	X	35	36.816	58.636	55.713	0.00	0.00
ATOM	537	N	PRO	X	36	37.868	60.490	56.358	0.00	0.00
ATOM	538	CD	PRO	X	36	38.069	61.898	56.641	0.00	0.00
ATOM	539	HD2	PRO	X	36	37.351	62.228	57.392	0.00	0.00
ATOM	540	HD3	PRO	X	36	38.141	62.516	55.747	0.00	0.00
ATOM	541	CG	PRO	X	36	39.416	62.124	57.361	0.00	0.00
ATOM	542	HG2	PRO	X	36	39.396	62.928	58.097	0.00	0.00
ATOM	543	HG3	PRO	X	36	40.227	62.358	56.670	0.00	0.00
ATOM	544	CB	PRO	X	36	39.699	60.757	57.945	0.00	0.00
ATOM	545	HB2	PRO	X	36	39.278	60.756	58.951	0.00	0.00
ATOM	546	HB3	PRO	X	36	40.740	60.439	58.013	0.00	0.00
ATOM	547	CA	PRO	X	36	38.935	59.703	57.112	0.00	0.00
ATOM	548	HA	PRO	X	36	39.560	59.254	56.340	0.00	0.00
ATOM	549	C	PRO	X	36	38.412	58.551	57.935	0.00	0.00
ATOM	550	O	PRO	X	36	37.587	58.802	58.865	0.00	0.00
ATOM	551	N	PRO	X	37	38.736	57.265	57.604	0.00	0.00
ATOM	552	CD	PRO	X	37	39.580	56.793	56.597	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.569	57.245	56.674	0.00	0.00
ATOM	554	HD3	PRO	X	37	39.222	57.036	55.597	0.00	0.00
ATOM	555	CG	PRO	X	37	39.732	55.308	56.677	0.00	0.00
ATOM	556	HG2	PRO	X	37	40.636	55.039	57.223	0.00	0.00
ATOM	557	HG3	PRO	X	37	39.759	54.727	55.754	0.00	0.00
ATOM	558	CB	PRO	X	37	38.437	54.870	57.457	0.00	0.00
ATOM	559	HB2	PRO	X	37	38.555	53.856	57.840	0.00	0.00
ATOM	560	HB3	PRO	X	37	37.547	54.895	56.829	0.00	0.00
ATOM	561	CA	PRO	X	37	38.395	56.076	58.436	0.00	0.00
ATOM	562	HA	PRO	X	37	37.364	56.112	58.790	0.00	0.00
ATOM	563	C	PRO	X	37	39.390	55.846	59.634	0.00	0.00
ATOM	564	O	PRO	X	37	39.634	54.712	60.078	0.00	0.00
ATOM	565	N	MET	X	38	40.035	56.918	60.114	0.00	0.00
ATOM	566	H	MET	X	38	39.611	57.805	59.884	0.00	0.00
ATOM	567	CA	MET	X	38	41.021	56.942	61.194	0.00	0.00

ATOM	568	HA	MET	X	38	41.516	55.971	61.162	0.00	0.00
ATOM	569	CB	MET	X	38	41.973	58.115	60.909	0.00	0.00
ATOM	570	HB2	MET	X	38	42.835	58.022	61.570	0.00	0.00
ATOM	571	HB3	MET	X	38	42.421	57.999	59.922	0.00	0.00
ATOM	572	CG	MET	X	38	41.335	59.534	61.303	0.00	0.00
ATOM	573	HG2	MET	X	38	40.320	59.505	60.907	0.00	0.00
ATOM	574	HG3	MET	X	38	41.373	59.654	62.386	0.00	0.00
ATOM	575	SD	MET	X	38	42.315	60.888	60.577	0.00	0.00
ATOM	576	CE	MET	X	38	41.597	62.207	61.646	0.00	0.00
ATOM	577	HE1	MET	X	38	41.824	63.249	61.419	0.00	0.00
ATOM	578	HE2	MET	X	38	40.530	62.147	61.434	0.00	0.00
ATOM	579	HE3	MET	X	38	41.704	62.140	62.729	0.00	0.00
ATOM	580	C	MET	X	38	40.364	57.057	62.567	0.00	0.00
ATOM	581	O	MET	X	38	39.283	57.617	62.727	0.00	0.00
ATOM	582	N	GLY	X	39	41.128	56.579	63.584	0.00	0.00
ATOM	583	H	GLY	X	39	41.945	56.064	63.289	0.00	0.00
ATOM	584	CA	GLY	X	39	40.864	56.623	65.069	0.00	0.00
ATOM	585	HA2	GLY	X	39	41.485	55.904	65.498	0.00	0.00
ATOM	586	HA3	GLY	X	39	40.962	57.591	65.511	0.00	0.00
ATOM	587	C	GLY	X	39	39.497	56.076	65.506	0.00	0.00
ATOM	588	O	GLY	X	39	39.286	54.834	65.333	0.00	0.00
ATOM	589	N	PRO	X	40	38.517	56.859	65.959	0.00	0.00
ATOM	590	CD	PRO	X	40	38.779	58.136	66.361	0.00	0.00
ATOM	591	HD2	PRO	X	40	38.959	58.768	65.492	0.00	0.00
ATOM	592	HD3	PRO	X	40	39.641	58.289	67.010	0.00	0.00
ATOM	593	CG	PRO	X	40	37.590	58.595	67.173	0.00	0.00
ATOM	594	HG2	PRO	X	40	37.335	59.631	66.950	0.00	0.00
ATOM	595	HG3	PRO	X	40	37.799	58.464	68.235	0.00	0.00
ATOM	596	CB	PRO	X	40	36.472	57.711	66.699	0.00	0.00
ATOM	597	HB2	PRO	X	40	35.855	58.187	65.936	0.00	0.00
ATOM	598	HB3	PRO	X	40	35.795	57.438	67.508	0.00	0.00
ATOM	599	CA	PRO	X	40	37.124	56.480	66.191	0.00	0.00
ATOM	600	HA	PRO	X	40	37.147	55.744	66.994	0.00	0.00
ATOM	601	C	PRO	X	40	36.402	55.794	64.975	0.00	0.00
ATOM	602	O	PRO	X	40	35.333	55.156	65.121	0.00	0.00
ATOM	603	N	ARG	X	41	36.993	55.863	63.803	0.00	0.00
ATOM	604	H	ARG	X	41	37.874	56.356	63.785	0.00	0.00
ATOM	605	CA	ARG	X	41	36.516	55.217	62.590	0.00	0.00
ATOM	606	HA	ARG	X	41	35.550	54.752	62.787	0.00	0.00
ATOM	607	CB	ARG	X	41	36.149	56.358	61.601	0.00	0.00
ATOM	608	HB2	ARG	X	41	35.480	57.075	62.075	0.00	0.00
ATOM	609	HB3	ARG	X	41	37.099	56.759	61.247	0.00	0.00
ATOM	610	CG	ARG	X	41	35.276	55.821	60.450	0.00	0.00
ATOM	611	HG2	ARG	X	41	35.917	55.073	59.985	0.00	0.00
ATOM	612	HG3	ARG	X	41	34.406	55.336	60.892	0.00	0.00
ATOM	613	CD	ARG	X	41	34.919	56.813	59.336	0.00	0.00
ATOM	614	HD2	ARG	X	41	35.806	57.388	59.070	0.00	0.00
ATOM	615	HD3	ARG	X	41	34.626	56.437	58.355	0.00	0.00
ATOM	616	NE	ARG	X	41	33.861	57.730	59.783	0.00	0.00
ATOM	617	HE	ARG	X	41	32.890	57.451	59.748	0.00	0.00
ATOM	618	CZ	ARG	X	41	34.046	58.962	60.095	0.00	0.00
ATOM	619	NH1	ARG	X	41	35.235	59.522	60.180	0.00	0.00
ATOM	620	HH11	ARG	X	41	35.970	59.051	59.671	0.00	0.00
ATOM	621	HH12	ARG	X	41	35.299	60.516	60.346	0.00	0.00
ATOM	622	NH2	ARG	X	41	33.018	59.600	60.409	0.00	0.00
ATOM	623	HH21	ARG	X	41	32.143	59.135	60.605	0.00	0.00
ATOM	624	HH22	ARG	X	41	33.179	60.594	60.485	0.00	0.00
ATOM	625	C	ARG	X	41	37.284	53.934	62.120	0.00	0.00
ATOM	626	O	ARG	X	41	36.944	53.291	61.149	0.00	0.00
ATOM	627	N	ARG	X	42	38.407	53.649	62.748	0.00	0.00
ATOM	628	H	ARG	X	42	38.684	54.200	63.547	0.00	0.00
ATOM	629	CA	ARG	X	42	39.242	52.486	62.465	0.00	0.00
ATOM	630	HA	ARG	X	42	39.727	52.616	61.497	0.00	0.00
ATOM	631	CB	ARG	X	42	40.521	52.607	63.324	0.00	0.00
ATOM	632	HB2	ARG	X	42	40.885	53.627	63.192	0.00	0.00
ATOM	633	HB3	ARG	X	42	40.232	52.451	64.363	0.00	0.00
ATOM	634	CG	ARG	X	42	41.636	51.648	62.906	0.00	0.00
ATOM	635	HG2	ARG	X	42	41.196	50.655	62.820	0.00	0.00
ATOM	636	HG3	ARG	X	42	42.068	51.938	61.948	0.00	0.00
ATOM	637	CD	ARG	X	42	42.780	51.409	63.925	0.00	0.00

ATOM	638	HD2	ARG	X	42	42.359	51.273	64.921	0.00	0.00
ATOM	639	HD3	ARG	X	42	43.353	50.523	63.653	0.00	0.00
ATOM	640	NE	ARG	X	42	43.671	52.608	63.927	0.00	0.00
ATOM	641	HE	ARG	X	42	43.388	53.328	63.277	0.00	0.00
ATOM	642	CZ	ARG	X	42	44.471	53.080	64.811	0.00	0.00
ATOM	643	NH1	ARG	X	42	44.884	52.302	65.780	0.00	0.00
ATOM	644	HH11	ARG	X	42	44.538	51.369	65.955	0.00	0.00
ATOM	645	HH12	ARG	X	42	45.452	52.669	66.530	0.00	0.00
ATOM	646	NH2	ARG	X	42	44.818	54.307	64.666	0.00	0.00
ATOM	647	HH21	ARG	X	42	44.647	54.819	63.812	0.00	0.00
ATOM	648	HH22	ARG	X	42	45.175	54.742	65.504	0.00	0.00
ATOM	649	C	ARG	X	42	38.402	51.205	62.514	0.00	0.00
ATOM	650	O	ARG	X	42	37.622	51.170	63.474	0.00	0.00
ATOM	651	N	PHE	X	43	38.522	50.191	61.643	0.00	0.00
ATOM	652	H	PHE	X	43	39.177	50.343	60.890	0.00	0.00
ATOM	653	CA	PHE	X	43	37.717	48.991	61.567	0.00	0.00
ATOM	654	HA	PHE	X	43	38.052	48.539	60.633	0.00	0.00
ATOM	655	CB	PHE	X	43	38.090	48.021	62.762	0.00	0.00
ATOM	656	HB2	PHE	X	43	37.411	48.183	63.600	0.00	0.00
ATOM	657	HB3	PHE	X	43	37.907	47.009	62.401	0.00	0.00
ATOM	658	CG	PHE	X	43	39.519	48.066	63.249	0.00	0.00
ATOM	659	CD1	PHE	X	43	40.569	47.724	62.397	0.00	0.00
ATOM	660	HD1	PHE	X	43	40.352	47.396	61.391	0.00	0.00
ATOM	661	CE1	PHE	X	43	41.935	47.647	62.890	0.00	0.00
ATOM	662	HE1	PHE	X	43	42.729	47.379	62.208	0.00	0.00
ATOM	663	CZ	PHE	X	43	42.181	47.950	64.227	0.00	0.00
ATOM	664	HZ	PHE	X	43	43.156	47.812	64.672	0.00	0.00
ATOM	665	CE2	PHE	X	43	41.162	48.286	65.083	0.00	0.00
ATOM	666	HE2	PHE	X	43	41.369	48.536	66.113	0.00	0.00
ATOM	667	CD2	PHE	X	43	39.866	48.429	64.595	0.00	0.00
ATOM	668	HD2	PHE	X	43	39.108	48.733	65.302	0.00	0.00
ATOM	669	C	PHE	X	43	36.162	49.142	61.420	0.00	0.00
ATOM	670	O	PHE	X	43	35.534	48.107	61.170	0.00	0.00
ATOM	671	N	LEU	X	44	35.558	50.340	61.406	0.00	0.00
ATOM	672	H	LEU	X	44	36.083	51.165	61.660	0.00	0.00
ATOM	673	CA	LEU	X	44	34.069	50.521	61.221	0.00	0.00
ATOM	674	HA	LEU	X	44	33.479	49.676	61.576	0.00	0.00
ATOM	675	CB	LEU	X	44	33.684	51.849	62.031	0.00	0.00
ATOM	676	HB2	LEU	X	44	34.470	52.600	61.952	0.00	0.00
ATOM	677	HB3	LEU	X	44	32.833	52.394	61.622	0.00	0.00
ATOM	678	CG	LEU	X	44	33.500	51.364	63.512	0.00	0.00
ATOM	679	HG	LEU	X	44	34.244	50.609	63.765	0.00	0.00
ATOM	680	CD1	LEU	X	44	33.704	52.501	64.435	0.00	0.00
ATOM	681	HD11	LEU	X	44	33.507	52.243	65.476	0.00	0.00
ATOM	682	HD12	LEU	X	44	34.729	52.843	64.293	0.00	0.00
ATOM	683	HD13	LEU	X	44	33.017	53.303	64.165	0.00	0.00
ATOM	684	CD2	LEU	X	44	32.168	50.596	63.785	0.00	0.00
ATOM	685	HD21	LEU	X	44	32.080	49.726	63.135	0.00	0.00
ATOM	686	HD22	LEU	X	44	32.053	50.422	64.855	0.00	0.00
ATOM	687	HD23	LEU	X	44	31.435	51.358	63.521	0.00	0.00
ATOM	688	C	LEU	X	44	33.814	50.704	59.646	0.00	0.00
ATOM	689	O	LEU	X	44	34.783	50.966	58.993	0.00	0.00
ATOM	690	N	PRO	X	45	32.541	50.649	59.226	0.00	0.00
ATOM	691	CD	PRO	X	45	31.401	49.996	59.884	0.00	0.00
ATOM	692	HD2	PRO	X	45	30.926	50.528	60.708	0.00	0.00
ATOM	693	HD3	PRO	X	45	31.567	48.951	60.147	0.00	0.00
ATOM	694	CG	PRO	X	45	30.310	49.962	58.784	0.00	0.00
ATOM	695	HG2	PRO	X	45	29.298	50.073	59.172	0.00	0.00
ATOM	696	HG3	PRO	X	45	30.409	48.971	58.342	0.00	0.00
ATOM	697	CB	PRO	X	45	30.630	50.993	57.735	0.00	0.00
ATOM	698	HB2	PRO	X	45	30.194	51.951	58.019	0.00	0.00
ATOM	699	HB3	PRO	X	45	30.263	50.664	56.763	0.00	0.00
ATOM	700	CA	PRO	X	45	32.159	51.066	57.888	0.00	0.00
ATOM	701	HA	PRO	X	45	32.544	50.390	57.124	0.00	0.00
ATOM	702	C	PRO	X	45	32.528	52.585	57.580	0.00	0.00
ATOM	703	O	PRO	X	45	32.600	53.382	58.517	0.00	0.00
ATOM	704	N	PRO	X	46	32.729	52.913	56.264	0.00	0.00
ATOM	705	CD	PRO	X	46	32.851	51.982	55.145	0.00	0.00
ATOM	706	HD2	PRO	X	46	31.890	51.498	54.969	0.00	0.00
ATOM	707	HD3	PRO	X	46	33.624	51.263	55.414	0.00	0.00

ATOM	708	CG	PRO	X	46	33.190	52.785	53.881	0.00	0.00
ATOM	709	HG2	PRO	X	46	32.291	53.058	53.328	0.00	0.00
ATOM	710	HG3	PRO	X	46	33.884	52.163	53.316	0.00	0.00
ATOM	711	CB	PRO	X	46	33.823	54.004	54.488	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.646	54.836	53.807	0.00	0.00
ATOM	713	HB3	PRO	X	46	34.836	53.828	54.852	0.00	0.00
ATOM	714	CA	PRO	X	46	33.037	54.235	55.798	0.00	0.00
ATOM	715	HA	PRO	X	46	33.718	54.752	56.474	0.00	0.00
ATOM	716	C	PRO	X	46	31.825	55.088	55.558	0.00	0.00
ATOM	717	O	PRO	X	46	30.675	54.633	55.389	0.00	0.00
ATOM	718	N	GLU	X	47	32.081	56.374	55.553	0.00	0.00
ATOM	719	H	GLU	X	47	33.019	56.748	55.570	0.00	0.00
ATOM	720	CA	GLU	X	47	30.985	57.308	55.311	0.00	0.00
ATOM	721	HA	GLU	X	47	30.102	56.746	55.008	0.00	0.00
ATOM	722	CB	GLU	X	47	30.835	57.997	56.646	0.00	0.00
ATOM	723	HB2	GLU	X	47	31.761	58.506	56.915	0.00	0.00
ATOM	724	HB3	GLU	X	47	30.055	58.729	56.435	0.00	0.00
ATOM	725	CG	GLU	X	47	30.395	57.061	57.788	0.00	0.00
ATOM	726	HG2	GLU	X	47	29.489	56.502	57.552	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.136	56.272	57.917	0.00	0.00
ATOM	728	CD	GLU	X	47	30.309	57.695	59.114	0.00	0.00
ATOM	729	OE1	GLU	X	47	29.580	58.658	59.310	0.00	0.00
ATOM	730	OE2	GLU	X	47	30.928	57.229	60.087	0.00	0.00
ATOM	731	C	GLU	X	47	31.310	58.395	54.205	0.00	0.00
ATOM	732	O	GLU	X	47	32.463	58.807	54.097	0.00	0.00
ATOM	733	N	PRO	X	48	30.269	58.821	53.461	0.00	0.00
ATOM	734	CD	PRO	X	48	28.917	58.441	53.631	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.614	58.763	54.628	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.736	57.383	53.441	0.00	0.00
ATOM	737	CG	PRO	X	48	28.106	59.374	52.720	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.918	60.329	53.211	0.00	0.00
ATOM	739	HG3	PRO	X	48	27.150	58.960	52.399	0.00	0.00
ATOM	740	CB	PRO	X	48	29.042	59.652	51.571	0.00	0.00
ATOM	741	HB2	PRO	X	48	28.889	60.636	51.127	0.00	0.00
ATOM	742	HB3	PRO	X	48	28.947	58.898	50.790	0.00	0.00
ATOM	743	CA	PRO	X	48	30.440	59.592	52.270	0.00	0.00
ATOM	744	HA	PRO	X	48	31.125	59.055	51.615	0.00	0.00
ATOM	745	C	PRO	X	48	31.165	60.883	52.612	0.00	0.00
ATOM	746	O	PRO	X	48	30.894	61.514	53.631	0.00	0.00
ATOM	747	N	LYS	X	49	32.061	61.332	51.775	0.00	0.00
ATOM	748	H	LYS	X	49	32.396	60.802	50.983	0.00	0.00
ATOM	749	CA	LYS	X	49	32.983	62.478	52.048	0.00	0.00
ATOM	750	HA	LYS	X	49	33.496	62.278	52.989	0.00	0.00
ATOM	751	CB	LYS	X	49	34.052	62.568	50.935	0.00	0.00
ATOM	752	HB2	LYS	X	49	34.861	61.861	51.115	0.00	0.00
ATOM	753	HB3	LYS	X	49	33.514	62.399	50.002	0.00	0.00
ATOM	754	CG	LYS	X	49	34.722	63.879	50.746	0.00	0.00
ATOM	755	HG2	LYS	X	49	35.382	63.884	49.879	0.00	0.00
ATOM	756	HG3	LYS	X	49	33.985	64.642	50.497	0.00	0.00
ATOM	757	CD	LYS	X	49	35.645	64.267	51.909	0.00	0.00
ATOM	758	HD2	LYS	X	49	35.015	64.484	52.772	0.00	0.00
ATOM	759	HD3	LYS	X	49	36.342	63.461	52.140	0.00	0.00
ATOM	760	CE	LYS	X	49	36.373	65.489	51.529	0.00	0.00
ATOM	761	HE2	LYS	X	49	37.029	65.367	50.667	0.00	0.00
ATOM	762	HE3	LYS	X	49	35.553	66.169	51.299	0.00	0.00
ATOM	763	NZ	LYS	X	49	37.217	65.958	52.646	0.00	0.00
ATOM	764	HZ1	LYS	X	49	38.107	65.485	52.702	0.00	0.00
ATOM	765	HZ2	LYS	X	49	37.460	66.922	52.465	0.00	0.00
ATOM	766	HZ3	LYS	X	49	36.806	65.967	53.568	0.00	0.00
ATOM	767	C	LYS	X	49	32.191	63.731	52.201	0.00	0.00
ATOM	768	O	LYS	X	49	31.454	64.142	51.252	0.00	0.00
ATOM	769	N	GLN	X	50	32.355	64.478	53.294	0.00	0.00
ATOM	770	H	GLN	X	50	32.972	64.124	54.011	0.00	0.00
ATOM	771	CA	GLN	X	50	31.645	65.790	53.470	0.00	0.00
ATOM	772	HA	GLN	X	50	30.589	65.650	53.237	0.00	0.00
ATOM	773	CB	GLN	X	50	31.545	66.157	54.927	0.00	0.00
ATOM	774	HB2	GLN	X	50	32.545	66.256	55.348	0.00	0.00
ATOM	775	HB3	GLN	X	50	31.004	67.102	54.957	0.00	0.00
ATOM	776	CG	GLN	X	50	30.868	65.182	55.868	0.00	0.00
ATOM	777	HG2	GLN	X	50	29.836	65.181	55.515	0.00	0.00

ATOM	778	HG3	GLN	X	50	31.274	64.171	55.860	0.00	0.00
ATOM	779	CD	GLN	X	50	30.923	65.720	57.298	0.00	0.00
ATOM	780	OE1	GLN	X	50	29.959	66.332	57.761	0.00	0.00
ATOM	781	NE2	GLN	X	50	32.037	65.607	58.064	0.00	0.00
ATOM	782	HE21	GLN	X	50	32.021	66.035	58.980	0.00	0.00
ATOM	783	HE22	GLN	X	50	32.843	65.102	57.725	0.00	0.00
ATOM	784	C	GLN	X	50	32.188	66.804	52.461	0.00	0.00
ATOM	785	O	GLN	X	50	33.397	66.823	52.087	0.00	0.00
ATOM	786	N	PRO	X	51	31.345	67.728	52.012	0.00	0.00
ATOM	787	CD	PRO	X	51	29.830	67.715	52.166	0.00	0.00
ATOM	788	HD2	PRO	X	51	29.630	67.817	53.233	0.00	0.00
ATOM	789	HD3	PRO	X	51	29.510	66.765	51.738	0.00	0.00
ATOM	790	CG	PRO	X	51	29.330	68.877	51.364	0.00	0.00
ATOM	791	HG2	PRO	X	51	29.337	69.800	51.944	0.00	0.00
ATOM	792	HG3	PRO	X	51	28.301	68.774	51.022	0.00	0.00
ATOM	793	CB	PRO	X	51	30.265	68.914	50.194	0.00	0.00
ATOM	794	HB2	PRO	X	51	30.213	69.870	49.672	0.00	0.00
ATOM	795	HB3	PRO	X	51	29.867	68.122	49.559	0.00	0.00
ATOM	796	CA	PRO	X	51	31.665	68.496	50.820	0.00	0.00
ATOM	797	HA	PRO	X	51	32.208	67.904	50.083	0.00	0.00
ATOM	798	C	PRO	X	51	32.478	69.843	51.195	0.00	0.00
ATOM	799	O	PRO	X	51	32.473	70.295	52.338	0.00	0.00
ATOM	800	N	TRP	X	52	33.064	70.466	50.208	0.00	0.00
ATOM	801	H	TRP	X	52	32.866	70.203	49.253	0.00	0.00
ATOM	802	CA	TRP	X	52	34.144	71.522	50.412	0.00	0.00
ATOM	803	HA	TRP	X	52	34.196	71.829	51.457	0.00	0.00
ATOM	804	CB	TRP	X	52	35.535	70.928	49.962	0.00	0.00
ATOM	805	HB2	TRP	X	52	36.361	71.604	50.179	0.00	0.00
ATOM	806	HB3	TRP	X	52	35.506	70.050	50.607	0.00	0.00
ATOM	807	CG	TRP	X	52	35.666	70.465	48.587	0.00	0.00
ATOM	808	CD1	TRP	X	52	35.932	71.277	47.502	0.00	0.00
ATOM	809	HD1	TRP	X	52	36.146	72.335	47.521	0.00	0.00
ATOM	810	NE1	TRP	X	52	36.017	70.500	46.347	0.00	0.00
ATOM	811	HE1	TRP	X	52	36.343	70.849	45.457	0.00	0.00
ATOM	812	CE2	TRP	X	52	35.634	69.182	46.616	0.00	0.00
ATOM	813	CZ2	TRP	X	52	35.487	68.019	45.837	0.00	0.00
ATOM	814	HZ2	TRP	X	52	35.693	68.197	44.792	0.00	0.00
ATOM	815	CH2	TRP	X	52	35.022	66.846	46.377	0.00	0.00
ATOM	816	HH2	TRP	X	52	34.783	65.975	45.783	0.00	0.00
ATOM	817	CZ3	TRP	X	52	34.923	66.756	47.760	0.00	0.00
ATOM	818	HZ3	TRP	X	52	34.412	65.885	48.144	0.00	0.00
ATOM	819	CE3	TRP	X	52	35.059	67.841	48.622	0.00	0.00
ATOM	820	HE3	TRP	X	52	34.844	67.837	49.681	0.00	0.00
ATOM	821	CD2	TRP	X	52	35.432	69.135	48.065	0.00	0.00
ATOM	822	C	TRP	X	52	33.799	72.826	49.600	0.00	0.00
ATOM	823	O	TRP	X	52	33.229	72.806	48.476	0.00	0.00
ATOM	824	N	SER	X	53	34.178	73.974	50.131	0.00	0.00
ATOM	825	H	SER	X	53	34.596	73.982	51.050	0.00	0.00
ATOM	826	CA	SER	X	53	34.246	75.219	49.330	0.00	0.00
ATOM	827	HA	SER	X	53	33.381	75.224	48.666	0.00	0.00
ATOM	828	CB	SER	X	53	34.224	76.452	50.235	0.00	0.00
ATOM	829	HB2	SER	X	53	35.178	76.280	50.733	0.00	0.00
ATOM	830	HB3	SER	X	53	34.409	77.316	49.597	0.00	0.00
ATOM	831	OG	SER	X	53	33.184	76.796	51.186	0.00	0.00
ATOM	832	HG	SER	X	53	33.354	76.279	51.977	0.00	0.00
ATOM	833	C	SER	X	53	35.455	75.180	48.423	0.00	0.00
ATOM	834	O	SER	X	53	36.513	74.555	48.739	0.00	0.00
ATOM	835	N	GLY	X	54	35.359	75.865	47.241	0.00	0.00
ATOM	836	H	GLY	X	54	34.484	76.319	47.020	0.00	0.00
ATOM	837	CA	GLY	X	54	36.468	76.089	46.285	0.00	0.00
ATOM	838	HA2	GLY	X	54	36.183	76.782	45.543	0.00	0.00
ATOM	839	HA3	GLY	X	54	37.356	76.484	46.795	0.00	0.00
ATOM	840	C	GLY	X	54	37.016	74.862	45.592	0.00	0.00
ATOM	841	O	GLY	X	54	36.154	74.009	45.354	0.00	0.00
ATOM	842	N	VAL	X	55	38.322	74.860	45.271	0.00	0.00
ATOM	843	H	VAL	X	55	38.851	75.701	45.452	0.00	0.00
ATOM	844	CA	VAL	X	55	38.897	73.867	44.363	0.00	0.00
ATOM	845	HA	VAL	X	55	38.052	73.270	44.021	0.00	0.00
ATOM	846	CB	VAL	X	55	39.331	74.534	42.929	0.00	0.00
ATOM	847	HB	VAL	X	55	40.296	75.042	42.929	0.00	0.00

ATOM	848	CG1	VAL	X	55	39.801	73.489	41.817	0.00	0.00
ATOM	849	HG11	VAL	X	55	38.895	72.931	41.581	0.00	0.00
ATOM	850	HG12	VAL	X	55	40.176	74.010	40.936	0.00	0.00
ATOM	851	HG13	VAL	X	55	40.570	72.852	42.253	0.00	0.00
ATOM	852	CG2	VAL	X	55	38.316	75.506	42.318	0.00	0.00
ATOM	853	HG21	VAL	X	55	38.008	76.279	43.022	0.00	0.00
ATOM	854	HG22	VAL	X	55	38.724	75.942	41.407	0.00	0.00
ATOM	855	HG23	VAL	X	55	37.427	74.923	42.077	0.00	0.00
ATOM	856	C	VAL	X	55	39.943	72.977	44.940	0.00	0.00
ATOM	857	O	VAL	X	55	40.924	73.554	45.393	0.00	0.00
ATOM	858	N	VAL	X	56	39.708	71.676	44.808	0.00	0.00
ATOM	859	H	VAL	X	56	38.821	71.405	44.408	0.00	0.00
ATOM	860	CA	VAL	X	56	40.629	70.684	45.466	0.00	0.00
ATOM	861	HA	VAL	X	56	41.329	71.240	46.089	0.00	0.00
ATOM	862	CB	VAL	X	56	39.825	69.844	46.499	0.00	0.00
ATOM	863	HB	VAL	X	56	38.894	69.540	46.022	0.00	0.00
ATOM	864	CG1	VAL	X	56	40.472	68.510	46.872	0.00	0.00
ATOM	865	HG11	VAL	X	56	41.320	68.663	47.539	0.00	0.00
ATOM	866	HG12	VAL	X	56	39.713	67.877	47.332	0.00	0.00
ATOM	867	HG13	VAL	X	56	40.881	68.029	45.983	0.00	0.00
ATOM	868	CG2	VAL	X	56	39.474	70.615	47.752	0.00	0.00
ATOM	869	HG21	VAL	X	56	40.273	71.270	48.100	0.00	0.00
ATOM	870	HG22	VAL	X	56	38.753	71.404	47.536	0.00	0.00
ATOM	871	HG23	VAL	X	56	38.877	70.043	48.463	0.00	0.00
ATOM	872	C	VAL	X	56	41.373	69.903	44.379	0.00	0.00
ATOM	873	O	VAL	X	56	40.838	69.499	43.353	0.00	0.00
ATOM	874	N	ASP	X	57	42.654	69.780	44.580	0.00	0.00
ATOM	875	H	ASP	X	57	42.971	70.100	45.484	0.00	0.00
ATOM	876	CA	ASP	X	57	43.734	69.337	43.678	0.00	0.00
ATOM	877	HA	ASP	X	57	43.622	69.962	42.792	0.00	0.00
ATOM	878	CB	ASP	X	57	44.949	69.658	44.428	0.00	0.00
ATOM	879	HB2	ASP	X	57	45.047	70.679	44.798	0.00	0.00
ATOM	880	HB3	ASP	X	57	44.990	69.123	45.377	0.00	0.00
ATOM	881	CG	ASP	X	57	46.262	69.426	43.682	0.00	0.00
ATOM	882	OD1	ASP	X	57	46.664	68.281	43.380	0.00	0.00
ATOM	883	OD2	ASP	X	57	46.935	70.404	43.287	0.00	0.00
ATOM	884	C	ASP	X	57	43.594	67.823	43.401	0.00	0.00
ATOM	885	O	ASP	X	57	43.541	66.986	44.350	0.00	0.00
ATOM	886	N	ALA	X	58	43.371	67.575	42.094	0.00	0.00
ATOM	887	H	ALA	X	58	43.458	68.354	41.457	0.00	0.00
ATOM	888	CA	ALA	X	58	43.367	66.224	41.541	0.00	0.00
ATOM	889	HA	ALA	X	58	43.522	65.545	42.380	0.00	0.00
ATOM	890	CB	ALA	X	58	41.969	65.988	40.891	0.00	0.00
ATOM	891	HB1	ALA	X	58	41.943	64.957	40.537	0.00	0.00
ATOM	892	HB2	ALA	X	58	41.239	65.960	41.700	0.00	0.00
ATOM	893	HB3	ALA	X	58	41.772	66.763	40.151	0.00	0.00
ATOM	894	C	ALA	X	58	44.582	65.870	40.683	0.00	0.00
ATOM	895	O	ALA	X	58	44.465	65.060	39.831	0.00	0.00
ATOM	896	N	THR	X	59	45.663	66.623	40.911	0.00	0.00
ATOM	897	H	THR	X	59	45.711	67.229	41.718	0.00	0.00
ATOM	898	CA	THR	X	59	46.866	66.532	40.142	0.00	0.00
ATOM	899	HA	THR	X	59	46.638	66.322	39.097	0.00	0.00
ATOM	900	CB	THR	X	59	47.650	67.819	40.112	0.00	0.00
ATOM	901	HB	THR	X	59	48.497	67.684	39.439	0.00	0.00
ATOM	902	CG2	THR	X	59	46.738	69.006	39.617	0.00	0.00
ATOM	903	HG21	THR	X	59	45.903	69.114	40.309	0.00	0.00
ATOM	904	HG22	THR	X	59	47.340	69.914	39.611	0.00	0.00
ATOM	905	HG23	THR	X	59	46.194	68.811	38.693	0.00	0.00
ATOM	906	OG1	THR	X	59	48.323	68.100	41.311	0.00	0.00
ATOM	907	HG1	THR	X	59	47.725	68.317	42.030	0.00	0.00
ATOM	908	C	THR	X	59	47.795	65.405	40.534	0.00	0.00
ATOM	909	O	THR	X	59	48.756	65.192	39.819	0.00	0.00
ATOM	910	N	THR	X	60	47.733	64.834	41.738	0.00	0.00
ATOM	911	H	THR	X	60	47.023	65.143	42.387	0.00	0.00
ATOM	912	CA	THR	X	60	48.644	63.858	42.270	0.00	0.00
ATOM	913	HA	THR	X	60	49.072	63.242	41.479	0.00	0.00
ATOM	914	CB	THR	X	60	49.980	64.517	42.722	0.00	0.00
ATOM	915	HB	THR	X	60	50.374	65.198	41.967	0.00	0.00
ATOM	916	CG2	THR	X	60	49.926	65.341	43.987	0.00	0.00
ATOM	917	HG21	THR	X	60	49.290	64.886	44.747	0.00	0.00

ATOM	918	HG22	THR	X	60	50.931	65.525	44.366	0.00	0.00
ATOM	919	HG23	THR	X	60	49.403	66.289	43.864	0.00	0.00
ATOM	920	OG1	THR	X	60	50.883	63.524	42.921	0.00	0.00
ATOM	921	HG1	THR	X	60	51.653	64.038	43.176	0.00	0.00
ATOM	922	C	THR	X	60	47.956	62.948	43.286	0.00	0.00
ATOM	923	O	THR	X	60	46.776	63.127	43.603	0.00	0.00
ATOM	924	N	PHE	X	61	48.636	61.916	43.755	0.00	0.00
ATOM	925	H	PHE	X	61	49.594	61.802	43.455	0.00	0.00
ATOM	926	CA	PHE	X	61	48.080	61.000	44.743	0.00	0.00
ATOM	927	HA	PHE	X	61	47.100	60.588	44.499	0.00	0.00
ATOM	928	CB	PHE	X	61	48.956	59.760	44.788	0.00	0.00
ATOM	929	HB2	PHE	X	61	50.003	60.039	44.674	0.00	0.00
ATOM	930	HB3	PHE	X	61	48.960	59.290	45.772	0.00	0.00
ATOM	931	CG	PHE	X	61	48.619	58.794	43.696	0.00	0.00
ATOM	932	CD1	PHE	X	61	47.531	57.932	43.735	0.00	0.00
ATOM	933	HD1	PHE	X	61	46.832	57.835	44.552	0.00	0.00
ATOM	934	CE1	PHE	X	61	47.253	57.069	42.701	0.00	0.00
ATOM	935	HE1	PHE	X	61	46.526	56.275	42.786	0.00	0.00
ATOM	936	CZ	PHE	X	61	47.951	57.111	41.518	0.00	0.00
ATOM	937	HZ	PHE	X	61	47.723	56.358	40.779	0.00	0.00
ATOM	938	CE2	PHE	X	61	49.069	57.935	41.421	0.00	0.00
ATOM	939	HE2	PHE	X	61	49.646	57.985	40.509	0.00	0.00
ATOM	940	CD2	PHE	X	61	49.387	58.780	42.486	0.00	0.00
ATOM	941	HD2	PHE	X	61	50.224	59.440	42.311	0.00	0.00
ATOM	942	C	PHE	X	61	48.033	61.770	46.101	0.00	0.00
ATOM	943	O	PHE	X	61	48.723	62.785	46.287	0.00	0.00
ATOM	944	N	GLN	X	62	47.400	61.282	47.186	0.00	0.00
ATOM	945	H	GLN	X	62	46.743	60.528	47.044	0.00	0.00
ATOM	946	CA	GLN	X	62	47.617	61.731	48.639	0.00	0.00
ATOM	947	HA	GLN	X	62	48.357	62.528	48.725	0.00	0.00
ATOM	948	CB	GLN	X	62	46.263	62.237	49.102	0.00	0.00
ATOM	949	HB2	GLN	X	62	45.600	61.468	48.706	0.00	0.00
ATOM	950	HB3	GLN	X	62	46.107	62.164	50.178	0.00	0.00
ATOM	951	CG	GLN	X	62	45.866	63.670	48.659	0.00	0.00
ATOM	952	HG2	GLN	X	62	45.998	63.700	47.577	0.00	0.00
ATOM	953	HG3	GLN	X	62	44.816	63.767	48.936	0.00	0.00
ATOM	954	CD	GLN	X	62	46.652	64.688	49.350	0.00	0.00
ATOM	955	OE1	GLN	X	62	47.663	64.458	50.012	0.00	0.00
ATOM	956	NE2	GLN	X	62	46.341	65.928	49.109	0.00	0.00
ATOM	957	HE21	GLN	X	62	46.761	66.530	49.803	0.00	0.00
ATOM	958	HE22	GLN	X	62	45.553	66.084	48.498	0.00	0.00
ATOM	959	C	GLN	X	62	48.276	60.533	49.378	0.00	0.00
ATOM	960	O	GLN	X	62	49.064	59.823	48.726	0.00	0.00
ATOM	961	N	SER	X	63	47.920	60.226	50.643	0.00	0.00
ATOM	962	H	SER	X	63	47.195	60.712	51.152	0.00	0.00
ATOM	963	CA	SER	X	63	48.442	59.058	51.255	0.00	0.00
ATOM	964	HA	SER	X	63	49.496	58.874	51.042	0.00	0.00
ATOM	965	CB	SER	X	63	48.227	58.986	52.788	0.00	0.00
ATOM	966	HB2	SER	X	63	47.160	58.880	52.985	0.00	0.00
ATOM	967	HB3	SER	X	63	48.852	58.150	53.103	0.00	0.00
ATOM	968	OG	SER	X	63	48.692	60.094	53.569	0.00	0.00
ATOM	969	HG	SER	X	63	48.820	59.701	54.436	0.00	0.00
ATOM	970	C	SER	X	63	47.759	57.734	50.692	0.00	0.00
ATOM	971	O	SER	X	63	46.707	57.725	50.097	0.00	0.00
ATOM	972	N	VAL	X	64	48.287	56.537	51.040	0.00	0.00
ATOM	973	H	VAL	X	64	49.157	56.521	51.552	0.00	0.00
ATOM	974	CA	VAL	X	64	47.642	55.222	50.754	0.00	0.00
ATOM	975	HA	VAL	X	64	46.660	55.438	50.331	0.00	0.00
ATOM	976	CB	VAL	X	64	48.414	54.433	49.656	0.00	0.00
ATOM	977	HB	VAL	X	64	47.717	53.663	49.325	0.00	0.00
ATOM	978	CG1	VAL	X	64	48.946	55.407	48.511	0.00	0.00
ATOM	979	HG11	VAL	X	64	48.111	55.898	48.011	0.00	0.00
ATOM	980	HG12	VAL	X	64	49.519	56.197	48.995	0.00	0.00
ATOM	981	HG13	VAL	X	64	49.586	54.876	47.807	0.00	0.00
ATOM	982	CG2	VAL	X	64	49.640	53.695	50.206	0.00	0.00
ATOM	983	HG21	VAL	X	64	49.148	52.972	50.856	0.00	0.00
ATOM	984	HG22	VAL	X	64	50.093	53.085	49.425	0.00	0.00
ATOM	985	HG23	VAL	X	64	50.413	54.398	50.517	0.00	0.00
ATOM	986	C	VAL	X	64	47.467	54.534	52.030	0.00	0.00
ATOM	987	O	VAL	X	64	47.963	54.981	53.072	0.00	0.00

ATOM	988	N	CYX	X	65	46.673	53.546	52.021	0.00	0.00
ATOM	989	H	CYX	X	65	46.215	53.338	51.146	0.00	0.00
ATOM	990	CA	CYX	X	65	46.207	52.949	53.301	0.00	0.00
ATOM	991	HA	CYX	X	65	46.008	53.750	54.012	0.00	0.00
ATOM	992	CB	CYX	X	65	44.956	52.074	53.058	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.102	51.217	52.400	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.666	51.682	54.033	0.00	0.00
ATOM	995	SG	CYX	X	65	43.513	53.012	52.518	0.00	0.00
ATOM	996	C	CYX	X	65	47.253	52.052	54.078	0.00	0.00
ATOM	997	O	CYX	X	65	48.128	51.390	53.480	0.00	0.00
ATOM	998	N	TYR	X	66	47.154	52.037	55.379	0.00	0.00
ATOM	999	H	TYR	X	66	46.489	52.605	55.885	0.00	0.00
ATOM	1000	CA	TYR	X	66	48.171	51.316	56.123	0.00	0.00
ATOM	1001	HA	TYR	X	66	49.175	51.680	55.901	0.00	0.00
ATOM	1002	CB	TYR	X	66	47.884	51.397	57.641	0.00	0.00
ATOM	1003	HB2	TYR	X	66	46.823	51.499	57.867	0.00	0.00
ATOM	1004	HB3	TYR	X	66	48.099	50.435	58.106	0.00	0.00
ATOM	1005	CG	TYR	X	66	48.635	52.500	58.400	0.00	0.00
ATOM	1006	CD1	TYR	X	66	48.002	53.538	59.117	0.00	0.00
ATOM	1007	HD1	TYR	X	66	46.933	53.652	59.224	0.00	0.00
ATOM	1008	CE1	TYR	X	66	48.791	54.571	59.599	0.00	0.00
ATOM	1009	HE1	TYR	X	66	48.385	55.428	60.115	0.00	0.00
ATOM	1010	CZ	TYR	X	66	50.138	54.603	59.361	0.00	0.00
ATOM	1011	OH	TYR	X	66	50.892	55.638	59.720	0.00	0.00
ATOM	1012	HH	TYR	X	66	50.441	56.306	60.242	0.00	0.00
ATOM	1013	CE2	TYR	X	66	50.788	53.557	58.771	0.00	0.00
ATOM	1014	HE2	TYR	X	66	51.839	53.653	58.539	0.00	0.00
ATOM	1015	CD2	TYR	X	66	50.016	52.522	58.234	0.00	0.00
ATOM	1016	HD2	TYR	X	66	50.606	51.770	57.730	0.00	0.00
ATOM	1017	C	TYR	X	66	48.266	49.795	55.772	0.00	0.00
ATOM	1018	O	TYR	X	66	47.256	49.085	55.584	0.00	0.00
ATOM	1019	N	GLN	X	67	49.463	49.180	55.800	0.00	0.00
ATOM	1020	H	GLN	X	67	50.269	49.750	56.015	0.00	0.00
ATOM	1021	CA	GLN	X	67	49.773	47.875	55.201	0.00	0.00
ATOM	1022	HA	GLN	X	67	49.086	47.068	55.458	0.00	0.00
ATOM	1023	CB	GLN	X	67	49.759	48.004	53.668	0.00	0.00
ATOM	1024	HB2	GLN	X	67	49.996	47.059	53.179	0.00	0.00
ATOM	1025	HB3	GLN	X	67	48.731	48.211	53.372	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.612	49.033	52.992	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.444	50.021	53.421	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.628	48.721	53.233	0.00	0.00
ATOM	1029	CD	GLN	X	67	50.352	49.035	51.543	0.00	0.00
ATOM	1030	OE1	GLN	X	67	50.949	48.352	50.716	0.00	0.00
ATOM	1031	NE2	GLN	X	67	49.328	49.791	51.220	0.00	0.00
ATOM	1032	HE21	GLN	X	67	49.177	49.652	50.231	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.765	50.320	51.870	0.00	0.00
ATOM	1034	C	GLN	X	67	51.189	47.460	55.587	0.00	0.00
ATOM	1035	O	GLN	X	67	51.984	48.317	55.958	0.00	0.00
ATOM	1036	N	TYR	X	68	51.562	46.174	55.511	0.00	0.00
ATOM	1037	H	TYR	X	68	50.901	45.522	55.112	0.00	0.00
ATOM	1038	CA	TYR	X	68	52.962	45.771	55.817	0.00	0.00
ATOM	1039	HA	TYR	X	68	53.406	46.554	56.432	0.00	0.00
ATOM	1040	CB	TYR	X	68	52.955	44.450	56.628	0.00	0.00
ATOM	1041	HB2	TYR	X	68	52.330	44.676	57.492	0.00	0.00
ATOM	1042	HB3	TYR	X	68	52.446	43.671	56.060	0.00	0.00
ATOM	1043	CG	TYR	X	68	54.313	43.930	57.149	0.00	0.00
ATOM	1044	CD1	TYR	X	68	54.720	44.114	58.524	0.00	0.00
ATOM	1045	HD1	TYR	X	68	54.046	44.614	59.203	0.00	0.00
ATOM	1046	CE1	TYR	X	68	55.942	43.628	58.996	0.00	0.00
ATOM	1047	HE1	TYR	X	68	56.092	43.530	60.061	0.00	0.00
ATOM	1048	CZ	TYR	X	68	56.726	42.921	58.090	0.00	0.00
ATOM	1049	OH	TYR	X	68	57.945	42.362	58.393	0.00	0.00
ATOM	1050	HH	TYR	X	68	58.117	42.129	59.308	0.00	0.00
ATOM	1051	CE2	TYR	X	68	56.377	42.905	56.748	0.00	0.00
ATOM	1052	HE2	TYR	X	68	57.056	42.448	56.044	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.182	43.416	56.247	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.867	43.204	55.236	0.00	0.00
ATOM	1055	C	TYR	X	68	53.751	45.860	54.533	0.00	0.00
ATOM	1056	O	TYR	X	68	53.226	45.391	53.489	0.00	0.00
ATOM	1057	N	VAL	X	69	55.009	46.290	54.520	0.00	0.00

ATOM	1058	H	VAL	X	69	55.407	46.500	55.424	0.00	0.00
ATOM	1059	CA	VAL	X	69	55.850	46.172	53.338	0.00	0.00
ATOM	1060	HA	VAL	X	69	55.256	46.118	52.425	0.00	0.00
ATOM	1061	CB	VAL	X	69	56.857	47.384	53.128	0.00	0.00
ATOM	1062	HB	VAL	X	69	57.601	47.391	53.924	0.00	0.00
ATOM	1063	CG1	VAL	X	69	57.461	47.318	51.733	0.00	0.00
ATOM	1064	HG11	VAL	X	69	56.674	47.225	50.985	0.00	0.00
ATOM	1065	HG12	VAL	X	69	57.940	48.242	51.409	0.00	0.00
ATOM	1066	HG13	VAL	X	69	58.270	46.594	51.831	0.00	0.00
ATOM	1067	CG2	VAL	X	69	56.231	48.826	53.213	0.00	0.00
ATOM	1068	HG21	VAL	X	69	56.910	49.678	53.222	0.00	0.00
ATOM	1069	HG22	VAL	X	69	55.613	49.045	52.342	0.00	0.00
ATOM	1070	HG23	VAL	X	69	55.641	48.944	54.122	0.00	0.00
ATOM	1071	C	VAL	X	69	56.656	44.844	53.449	0.00	0.00
ATOM	1072	O	VAL	X	69	57.464	44.769	54.370	0.00	0.00
ATOM	1073	N	ASP	X	70	56.316	43.874	52.626	0.00	0.00
ATOM	1074	H	ASP	X	70	55.672	44.196	51.918	0.00	0.00
ATOM	1075	CA	ASP	X	70	56.958	42.626	52.404	0.00	0.00
ATOM	1076	HA	ASP	X	70	56.696	41.923	53.195	0.00	0.00
ATOM	1077	CB	ASP	X	70	56.334	42.247	51.049	0.00	0.00
ATOM	1078	HB2	ASP	X	70	55.254	42.179	51.177	0.00	0.00
ATOM	1079	HB3	ASP	X	70	56.641	42.936	50.262	0.00	0.00
ATOM	1080	CG	ASP	X	70	56.726	40.832	50.562	0.00	0.00
ATOM	1081	OD1	ASP	X	70	57.864	40.323	50.802	0.00	0.00
ATOM	1082	OD2	ASP	X	70	55.850	40.248	49.955	0.00	0.00
ATOM	1083	C	ASP	X	70	58.508	42.823	52.422	0.00	0.00
ATOM	1084	O	ASP	X	70	59.081	43.565	51.580	0.00	0.00
ATOM	1085	N	THR	X	71	59.187	42.091	53.291	0.00	0.00
ATOM	1086	H	THR	X	71	58.588	41.502	53.852	0.00	0.00
ATOM	1087	CA	THR	X	71	60.613	42.119	53.533	0.00	0.00
ATOM	1088	HA	THR	X	71	61.026	42.711	52.716	0.00	0.00
ATOM	1089	CB	THR	X	71	60.892	42.696	54.966	0.00	0.00
ATOM	1090	HB	THR	X	71	61.830	42.437	55.457	0.00	0.00
ATOM	1091	CG2	THR	X	71	61.008	44.242	54.893	0.00	0.00
ATOM	1092	HG21	THR	X	71	61.188	44.651	55.888	0.00	0.00
ATOM	1093	HG22	THR	X	71	61.885	44.367	54.257	0.00	0.00
ATOM	1094	HG23	THR	X	71	60.138	44.671	54.397	0.00	0.00
ATOM	1095	OG1	THR	X	71	59.825	42.470	55.836	0.00	0.00
ATOM	1096	HG1	THR	X	71	59.444	43.334	56.008	0.00	0.00
ATOM	1097	C	THR	X	71	61.428	40.839	53.310	0.00	0.00
ATOM	1098	O	THR	X	71	62.632	40.857	53.533	0.00	0.00
ATOM	1099	N	LEU	X	72	60.861	39.734	52.842	0.00	0.00
ATOM	1100	H	LEU	X	72	59.922	39.813	52.477	0.00	0.00
ATOM	1101	CA	LEU	X	72	61.594	38.452	52.637	0.00	0.00
ATOM	1102	HA	LEU	X	72	62.082	38.378	53.609	0.00	0.00
ATOM	1103	CB	LEU	X	72	60.557	37.321	52.415	0.00	0.00
ATOM	1104	HB2	LEU	X	72	59.742	37.414	53.132	0.00	0.00
ATOM	1105	HB3	LEU	X	72	60.091	37.652	51.486	0.00	0.00
ATOM	1106	CG	LEU	X	72	61.009	35.911	52.262	0.00	0.00
ATOM	1107	HG	LEU	X	72	61.767	35.993	51.483	0.00	0.00
ATOM	1108	CD1	LEU	X	72	61.691	35.453	53.577	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.536	36.122	53.743	0.00	0.00
ATOM	1110	HD12	LEU	X	72	61.011	35.505	54.427	0.00	0.00
ATOM	1111	HD13	LEU	X	72	61.949	34.397	53.497	0.00	0.00
ATOM	1112	CD2	LEU	X	72	59.920	34.889	51.849	0.00	0.00
ATOM	1113	HD21	LEU	X	72	60.434	33.985	51.523	0.00	0.00
ATOM	1114	HD22	LEU	X	72	59.262	34.607	52.671	0.00	0.00
ATOM	1115	HD23	LEU	X	72	59.418	35.376	51.013	0.00	0.00
ATOM	1116	C	LEU	X	72	62.626	38.496	51.501	0.00	0.00
ATOM	1117	O	LEU	X	72	63.730	38.176	51.744	0.00	0.00
ATOM	1118	N	TYR	X	73	62.257	38.997	50.304	0.00	0.00
ATOM	1119	H	TYR	X	73	61.284	39.042	50.036	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.223	39.307	49.140	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.268	39.117	49.385	0.00	0.00
ATOM	1122	CB	TYR	X	73	62.867	38.442	47.941	0.00	0.00
ATOM	1123	HB2	TYR	X	73	61.848	38.695	47.648	0.00	0.00
ATOM	1124	HB3	TYR	X	73	63.629	38.609	47.180	0.00	0.00
ATOM	1125	CG	TYR	X	73	62.761	36.940	48.169	0.00	0.00
ATOM	1126	CD1	TYR	X	73	63.894	36.219	48.647	0.00	0.00
ATOM	1127	HD1	TYR	X	73	64.839	36.706	48.833	0.00	0.00

ATOM	1128	CE1	TYR	X	73	63.838	34.878	48.938	0.00	0.00
ATOM	1129	HE1	TYR	X	73	64.743	34.427	49.320	0.00	0.00
ATOM	1130	CZ	TYR	X	73	62.581	34.210	48.915	0.00	0.00
ATOM	1131	OH	TYR	X	73	62.541	32.873	49.189	0.00	0.00
ATOM	1132	HH	TYR	X	73	61.676	32.561	49.466	0.00	0.00
ATOM	1133	CE2	TYR	X	73	61.429	34.874	48.374	0.00	0.00
ATOM	1134	HE2	TYR	X	73	60.478	34.364	48.422	0.00	0.00
ATOM	1135	CD2	TYR	X	73	61.552	36.245	47.980	0.00	0.00
ATOM	1136	HD2	TYR	X	73	60.695	36.757	47.568	0.00	0.00
ATOM	1137	C	TYR	X	73	63.233	40.761	48.724	0.00	0.00
ATOM	1138	O	TYR	X	73	62.707	41.092	47.678	0.00	0.00
ATOM	1139	N	PRO	X	74	63.843	41.618	49.560	0.00	0.00
ATOM	1140	CD	PRO	X	74	64.482	41.350	50.846	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.441	40.890	50.606	0.00	0.00
ATOM	1142	HD3	PRO	X	74	63.906	40.704	51.509	0.00	0.00
ATOM	1143	CG	PRO	X	74	64.630	42.720	51.502	0.00	0.00
ATOM	1144	HG2	PRO	X	74	65.620	43.129	51.300	0.00	0.00
ATOM	1145	HG3	PRO	X	74	64.441	42.597	52.569	0.00	0.00
ATOM	1146	CB	PRO	X	74	63.709	43.676	50.754	0.00	0.00
ATOM	1147	HB2	PRO	X	74	63.985	44.728	50.837	0.00	0.00
ATOM	1148	HB3	PRO	X	74	62.692	43.516	51.111	0.00	0.00
ATOM	1149	CA	PRO	X	74	63.647	43.029	49.365	0.00	0.00
ATOM	1150	HA	PRO	X	74	62.620	43.134	49.015	0.00	0.00
ATOM	1151	C	PRO	X	74	64.690	43.723	48.451	0.00	0.00
ATOM	1152	O	PRO	X	74	65.807	43.203	48.350	0.00	0.00
ATOM	1153	N	GLY	X	75	64.355	44.890	47.840	0.00	0.00
ATOM	1154	H	GLY	X	75	63.468	45.312	48.074	0.00	0.00
ATOM	1155	CA	GLY	X	75	65.239	45.746	46.932	0.00	0.00
ATOM	1156	HA2	GLY	X	75	64.810	46.808	46.959	0.00	0.00
ATOM	1157	HA3	GLY	X	75	66.232	45.704	47.345	0.00	0.00
ATOM	1158	C	GLY	X	75	65.336	45.148	45.534	0.00	0.00
ATOM	1159	O	GLY	X	75	65.834	45.809	44.662	0.00	0.00
ATOM	1160	N	PHE	X	76	64.918	43.917	45.355	0.00	0.00
ATOM	1161	H	PHE	X	76	64.580	43.462	46.191	0.00	0.00
ATOM	1162	CA	PHE	X	76	64.834	43.095	44.074	0.00	0.00
ATOM	1163	HA	PHE	X	76	65.818	43.199	43.616	0.00	0.00
ATOM	1164	CB	PHE	X	76	64.458	41.599	44.423	0.00	0.00
ATOM	1165	HB2	PHE	X	76	65.247	41.192	45.056	0.00	0.00
ATOM	1166	HB3	PHE	X	76	63.519	41.602	44.976	0.00	0.00
ATOM	1167	CG	PHE	X	76	64.397	40.629	43.286	0.00	0.00
ATOM	1168	CD1	PHE	X	76	65.549	40.386	42.488	0.00	0.00
ATOM	1169	HD1	PHE	X	76	66.476	40.915	42.654	0.00	0.00
ATOM	1170	CE1	PHE	X	76	65.394	39.599	41.344	0.00	0.00
ATOM	1171	HE1	PHE	X	76	66.214	39.636	40.642	0.00	0.00
ATOM	1172	CZ	PHE	X	76	64.255	38.839	41.183	0.00	0.00
ATOM	1173	HZ	PHE	X	76	64.170	38.199	40.317	0.00	0.00
ATOM	1174	CE2	PHE	X	76	63.149	38.998	41.989	0.00	0.00
ATOM	1175	HE2	PHE	X	76	62.181	38.539	41.856	0.00	0.00
ATOM	1176	CD2	PHE	X	76	63.151	39.926	42.993	0.00	0.00
ATOM	1177	HD2	PHE	X	76	62.294	40.205	43.589	0.00	0.00
ATOM	1178	C	PHE	X	76	64.017	43.671	42.950	0.00	0.00
ATOM	1179	O	PHE	X	76	62.904	44.158	43.155	0.00	0.00
ATOM	1180	N	GLU	X	77	64.470	43.514	41.696	0.00	0.00
ATOM	1181	H	GLU	X	77	65.370	43.079	41.547	0.00	0.00
ATOM	1182	CA	GLU	X	77	63.752	43.821	40.454	0.00	0.00
ATOM	1183	HA	GLU	X	77	63.497	44.881	40.438	0.00	0.00
ATOM	1184	CB	GLU	X	77	64.690	43.568	39.288	0.00	0.00
ATOM	1185	HB2	GLU	X	77	65.276	42.658	39.417	0.00	0.00
ATOM	1186	HB3	GLU	X	77	64.164	43.265	38.383	0.00	0.00
ATOM	1187	CG	GLU	X	77	65.656	44.723	38.971	0.00	0.00
ATOM	1188	HG2	GLU	X	77	64.976	45.522	38.673	0.00	0.00
ATOM	1189	HG3	GLU	X	77	66.309	44.941	39.816	0.00	0.00
ATOM	1190	CD	GLU	X	77	66.499	44.341	37.815	0.00	0.00
ATOM	1191	OE1	GLU	X	77	67.043	43.206	37.748	0.00	0.00
ATOM	1192	OE2	GLU	X	77	66.663	45.190	36.861	0.00	0.00
ATOM	1193	C	GLU	X	77	62.394	43.099	40.284	0.00	0.00
ATOM	1194	O	GLU	X	77	61.477	43.556	39.628	0.00	0.00
ATOM	1195	N	GLY	X	78	62.183	41.915	40.898	0.00	0.00
ATOM	1196	H	GLY	X	78	62.920	41.611	41.518	0.00	0.00
ATOM	1197	CA	GLY	X	78	60.813	41.352	41.059	0.00	0.00

ATOM	1198	HA2	GLY	X	78	60.247	41.731	40.181	0.00	0.00
ATOM	1199	HA3	GLY	X	78	60.833	40.247	41.127	0.00	0.00
ATOM	1200	C	GLY	X	78	59.996	41.884	42.219	0.00	0.00
ATOM	1201	O	GLY	X	78	58.831	41.507	42.337	0.00	0.00
ATOM	1202	N	THR	X	79	60.392	42.775	43.072	0.00	0.00
ATOM	1203	H	THR	X	79	61.360	43.043	42.968	0.00	0.00
ATOM	1204	CA	THR	X	79	59.563	43.200	44.255	0.00	0.00
ATOM	1205	HA	THR	X	79	58.526	42.988	43.996	0.00	0.00
ATOM	1206	CB	THR	X	79	60.004	42.433	45.523	0.00	0.00
ATOM	1207	HB	THR	X	79	59.561	43.005	46.338	0.00	0.00
ATOM	1208	CG2	THR	X	79	59.664	40.902	45.591	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.019	40.521	46.549	0.00	0.00
ATOM	1210	HG22	THR	X	79	58.591	40.848	45.408	0.00	0.00
ATOM	1211	HG23	THR	X	79	60.187	40.479	44.734	0.00	0.00
ATOM	1212	OG1	THR	X	79	61.403	42.698	45.607	0.00	0.00
ATOM	1213	HG1	THR	X	79	61.771	41.956	46.091	0.00	0.00
ATOM	1214	C	THR	X	79	59.404	44.654	44.533	0.00	0.00
ATOM	1215	O	THR	X	79	58.410	45.059	45.174	0.00	0.00
ATOM	1216	N	GLU	X	80	60.251	45.514	44.027	0.00	0.00
ATOM	1217	H	GLU	X	80	61.094	45.138	43.615	0.00	0.00
ATOM	1218	CA	GLU	X	80	60.136	46.967	44.341	0.00	0.00
ATOM	1219	HA	GLU	X	80	60.079	46.956	45.430	0.00	0.00
ATOM	1220	CB	GLU	X	80	61.396	47.790	43.946	0.00	0.00
ATOM	1221	HB2	GLU	X	80	61.610	47.744	42.878	0.00	0.00
ATOM	1222	HB3	GLU	X	80	61.082	48.803	44.200	0.00	0.00
ATOM	1223	CG	GLU	X	80	62.609	47.483	44.873	0.00	0.00
ATOM	1224	HG2	GLU	X	80	62.154	47.285	45.844	0.00	0.00
ATOM	1225	HG3	GLU	X	80	63.093	46.549	44.587	0.00	0.00
ATOM	1226	CD	GLU	X	80	63.644	48.642	44.892	0.00	0.00
ATOM	1227	OE1	GLU	X	80	64.171	48.824	43.785	0.00	0.00
ATOM	1228	OE2	GLU	X	80	63.983	49.258	45.937	0.00	0.00
ATOM	1229	C	GLU	X	80	58.934	47.653	43.838	0.00	0.00
ATOM	1230	O	GLU	X	80	58.485	48.640	44.339	0.00	0.00
ATOM	1231	N	MET	X	81	58.399	47.137	42.698	0.00	0.00
ATOM	1232	H	MET	X	81	58.814	46.380	42.175	0.00	0.00
ATOM	1233	CA	MET	X	81	57.251	47.710	41.916	0.00	0.00
ATOM	1234	HA	MET	X	81	57.363	48.722	41.528	0.00	0.00
ATOM	1235	CB	MET	X	81	57.130	46.969	40.527	0.00	0.00
ATOM	1236	HB2	MET	X	81	56.419	47.353	39.796	0.00	0.00
ATOM	1237	HB3	MET	X	81	58.104	47.138	40.067	0.00	0.00
ATOM	1238	CG	MET	X	81	56.970	45.418	40.706	0.00	0.00
ATOM	1239	HG2	MET	X	81	57.904	44.922	40.968	0.00	0.00
ATOM	1240	HG3	MET	X	81	56.159	45.104	41.364	0.00	0.00
ATOM	1241	SD	MET	X	81	56.462	44.656	39.145	0.00	0.00
ATOM	1242	CE	MET	X	81	54.634	44.801	39.122	0.00	0.00
ATOM	1243	HE1	MET	X	81	54.355	45.827	39.361	0.00	0.00
ATOM	1244	HE2	MET	X	81	54.344	44.395	38.153	0.00	0.00
ATOM	1245	HE3	MET	X	81	54.249	44.157	39.913	0.00	0.00
ATOM	1246	C	MET	X	81	55.923	47.573	42.666	0.00	0.00
ATOM	1247	O	MET	X	81	54.958	48.177	42.358	0.00	0.00
ATOM	1248	N	TRP	X	82	55.874	46.799	43.827	0.00	0.00
ATOM	1249	H	TRP	X	82	56.760	46.353	44.020	0.00	0.00
ATOM	1250	CA	TRP	X	82	54.752	46.530	44.771	0.00	0.00
ATOM	1251	HA	TRP	X	82	53.749	46.796	44.438	0.00	0.00
ATOM	1252	CB	TRP	X	82	54.725	45.022	45.043	0.00	0.00
ATOM	1253	HB2	TRP	X	82	55.679	44.678	45.440	0.00	0.00
ATOM	1254	HB3	TRP	X	82	54.002	44.953	45.855	0.00	0.00
ATOM	1255	CG	TRP	X	82	54.378	44.035	43.936	0.00	0.00
ATOM	1256	CD1	TRP	X	82	55.231	43.367	43.231	0.00	0.00
ATOM	1257	HD1	TRP	X	82	56.305	43.454	43.304	0.00	0.00
ATOM	1258	NE1	TRP	X	82	54.525	42.537	42.381	0.00	0.00
ATOM	1259	HE1	TRP	X	82	55.031	41.999	41.692	0.00	0.00
ATOM	1260	CE2	TRP	X	82	53.184	42.528	42.635	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	52.124	41.885	42.045	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	52.218	41.033	41.388	0.00	0.00
ATOM	1263	CH2	TRP	X	82	50.826	42.255	42.475	0.00	0.00
ATOM	1264	HH2	TRP	X	82	49.871	41.782	42.295	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	50.656	43.307	43.388	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	49.693	43.602	43.777	0.00	0.00
ATOM	1267	CE3	TRP	X	82	51.756	43.940	44.022	0.00	0.00

ATOM	1268	HE3	TRP	X	82	51.761	44.640	44.844	0.00	0.00
ATOM	1269	CD2	TRP	X	82	53.022	43.577	43.581	0.00	0.00
ATOM	1270	C	TRP	X	82	55.017	47.242	46.057	0.00	0.00
ATOM	1271	O	TRP	X	82	54.017	47.560	46.690	0.00	0.00
ATOM	1272	N	ASN	X	83	56.285	47.689	46.391	0.00	0.00
ATOM	1273	H	ASN	X	83	56.992	47.645	45.671	0.00	0.00
ATOM	1274	CA	ASN	X	83	56.521	48.597	47.468	0.00	0.00
ATOM	1275	HA	ASN	X	83	56.191	48.097	48.378	0.00	0.00
ATOM	1276	CB	ASN	X	83	57.978	48.947	47.681	0.00	0.00
ATOM	1277	HB2	ASN	X	83	58.411	49.234	46.722	0.00	0.00
ATOM	1278	HB3	ASN	X	83	58.119	49.806	48.336	0.00	0.00
ATOM	1279	CG	ASN	X	83	58.816	47.828	48.313	0.00	0.00
ATOM	1280	OD1	ASN	X	83	59.768	48.013	49.140	0.00	0.00
ATOM	1281	ND2	ASN	X	83	58.716	46.608	47.835	0.00	0.00
ATOM	1282	HD21	ASN	X	83	59.313	45.858	48.153	0.00	0.00
ATOM	1283	HD22	ASN	X	83	57.972	46.378	47.191	0.00	0.00
ATOM	1284	C	ASN	X	83	55.678	49.875	47.296	0.00	0.00
ATOM	1285	O	ASN	X	83	55.677	50.379	46.196	0.00	0.00
ATOM	1286	N	PRO	X	84	55.042	50.451	48.373	0.00	0.00
ATOM	1287	CD	PRO	X	84	54.815	49.855	49.745	0.00	0.00
ATOM	1288	HD2	PRO	X	84	55.735	49.460	50.176	0.00	0.00
ATOM	1289	HD3	PRO	X	84	54.109	49.030	49.655	0.00	0.00
ATOM	1290	CG	PRO	X	84	54.156	50.924	50.611	0.00	0.00
ATOM	1291	HG2	PRO	X	84	54.836	51.488	51.250	0.00	0.00
ATOM	1292	HG3	PRO	X	84	53.480	50.373	51.265	0.00	0.00
ATOM	1293	CB	PRO	X	84	53.488	51.773	49.533	0.00	0.00
ATOM	1294	HB2	PRO	X	84	53.559	52.829	49.797	0.00	0.00
ATOM	1295	HB3	PRO	X	84	52.460	51.425	49.437	0.00	0.00
ATOM	1296	CA	PRO	X	84	54.262	51.638	48.262	0.00	0.00
ATOM	1297	HA	PRO	X	84	53.604	51.338	47.447	0.00	0.00
ATOM	1298	C	PRO	X	84	55.068	52.808	47.943	0.00	0.00
ATOM	1299	O	PRO	X	84	55.936	53.179	48.746	0.00	0.00
ATOM	1300	N	ASN	X	85	54.886	53.458	46.762	0.00	0.00
ATOM	1301	H	ASN	X	85	54.200	53.124	46.100	0.00	0.00
ATOM	1302	CA	ASN	X	85	55.610	54.636	46.370	0.00	0.00
ATOM	1303	HA	ASN	X	85	56.600	54.615	46.824	0.00	0.00
ATOM	1304	CB	ASN	X	85	55.811	54.677	44.836	0.00	0.00
ATOM	1305	HB2	ASN	X	85	56.366	55.574	44.563	0.00	0.00
ATOM	1306	HB3	ASN	X	85	56.439	53.851	44.501	0.00	0.00
ATOM	1307	CG	ASN	X	85	54.594	54.763	43.965	0.00	0.00
ATOM	1308	OD1	ASN	X	85	53.470	54.741	44.438	0.00	0.00
ATOM	1309	ND2	ASN	X	85	54.763	54.858	42.689	0.00	0.00
ATOM	1310	HD21	ASN	X	85	53.908	54.950	42.160	0.00	0.00
ATOM	1311	HD22	ASN	X	85	55.728	54.857	42.388	0.00	0.00
ATOM	1312	C	ASN	X	85	54.933	55.922	46.842	0.00	0.00
ATOM	1313	O	ASN	X	85	54.967	56.982	46.242	0.00	0.00
ATOM	1314	N	ARG	X	86	54.389	55.880	48.050	0.00	0.00
ATOM	1315	H	ARG	X	86	54.475	54.970	48.479	0.00	0.00
ATOM	1316	CA	ARG	X	86	53.662	56.907	48.728	0.00	0.00
ATOM	1317	HA	ARG	X	86	54.073	57.883	48.471	0.00	0.00
ATOM	1318	CB	ARG	X	86	52.136	56.793	48.387	0.00	0.00
ATOM	1319	HB2	ARG	X	86	51.863	55.740	48.446	0.00	0.00
ATOM	1320	HB3	ARG	X	86	51.552	57.455	49.027	0.00	0.00
ATOM	1321	CG	ARG	X	86	51.813	57.313	47.025	0.00	0.00
ATOM	1322	HG2	ARG	X	86	52.285	56.654	46.296	0.00	0.00
ATOM	1323	HG3	ARG	X	86	50.729	57.287	46.919	0.00	0.00
ATOM	1324	CD	ARG	X	86	52.359	58.765	46.611	0.00	0.00
ATOM	1325	HD2	ARG	X	86	53.443	58.855	46.680	0.00	0.00
ATOM	1326	HD3	ARG	X	86	52.115	58.874	45.554	0.00	0.00
ATOM	1327	NE	ARG	X	86	51.879	59.935	47.455	0.00	0.00
ATOM	1328	HE	ARG	X	86	51.646	59.797	48.428	0.00	0.00
ATOM	1329	CZ	ARG	X	86	51.663	61.167	47.055	0.00	0.00
ATOM	1330	NH1	ARG	X	86	51.763	61.552	45.755	0.00	0.00
ATOM	1331	HH11	ARG	X	86	51.974	60.903	45.011	0.00	0.00
ATOM	1332	HH12	ARG	X	86	51.720	62.540	45.551	0.00	0.00
ATOM	1333	NH2	ARG	X	86	51.364	62.030	48.007	0.00	0.00
ATOM	1334	HH21	ARG	X	86	51.354	61.680	48.955	0.00	0.00
ATOM	1335	HH22	ARG	X	86	51.134	63.013	47.965	0.00	0.00
ATOM	1336	C	ARG	X	86	53.836	56.759	50.248	0.00	0.00
ATOM	1337	O	ARG	X	86	54.472	55.792	50.704	0.00	0.00

ATOM	1338	N	GLU	X	87	53.326	57.750	51.037	0.00	0.00
ATOM	1339	H	GLU	X	87	52.854	58.526	50.593	0.00	0.00
ATOM	1340	CA	GLU	X	87	53.076	57.703	52.480	0.00	0.00
ATOM	1341	HA	GLU	X	87	53.954	57.283	52.971	0.00	0.00
ATOM	1342	CB	GLU	X	87	52.949	59.103	53.074	0.00	0.00
ATOM	1343	HB2	GLU	X	87	52.865	59.021	54.158	0.00	0.00
ATOM	1344	HB3	GLU	X	87	53.851	59.508	52.616	0.00	0.00
ATOM	1345	CG	GLU	X	87	51.725	60.053	52.591	0.00	0.00
ATOM	1346	HG2	GLU	X	87	50.851	59.417	52.733	0.00	0.00
ATOM	1347	HG3	GLU	X	87	51.659	60.856	53.326	0.00	0.00
ATOM	1348	CD	GLU	X	87	51.727	60.657	51.176	0.00	0.00
ATOM	1349	OE1	GLU	X	87	51.393	61.865	51.100	0.00	0.00
ATOM	1350	OE2	GLU	X	87	52.192	59.998	50.228	0.00	0.00
ATOM	1351	C	GLU	X	87	51.931	56.795	52.976	0.00	0.00
ATOM	1352	O	GLU	X	87	50.794	56.879	52.438	0.00	0.00
ATOM	1353	N	LEU	X	88	52.208	56.073	54.096	0.00	0.00
ATOM	1354	H	LEU	X	88	53.091	56.079	54.587	0.00	0.00
ATOM	1355	CA	LEU	X	88	51.201	55.283	54.757	0.00	0.00
ATOM	1356	HA	LEU	X	88	50.464	55.006	54.004	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.831	53.991	55.295	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.536	54.391	56.023	0.00	0.00
ATOM	1359	HB3	LEU	X	88	51.094	53.498	55.929	0.00	0.00
ATOM	1360	CG	LEU	X	88	52.556	53.029	54.274	0.00	0.00
ATOM	1361	HG	LEU	X	88	53.494	53.477	53.946	0.00	0.00
ATOM	1362	CD1	LEU	X	88	52.699	51.645	55.026	0.00	0.00
ATOM	1363	HD11	LEU	X	88	52.704	50.735	54.427	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.622	51.810	55.583	0.00	0.00
ATOM	1365	HD13	LEU	X	88	51.871	51.578	55.731	0.00	0.00
ATOM	1366	CD2	LEU	X	88	51.594	52.781	53.079	0.00	0.00
ATOM	1367	HD21	LEU	X	88	52.060	52.057	52.410	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.650	52.395	53.463	0.00	0.00
ATOM	1369	HD23	LEU	X	88	51.392	53.651	52.453	0.00	0.00
ATOM	1370	C	LEU	X	88	50.420	56.056	55.840	0.00	0.00
ATOM	1371	O	LEU	X	88	50.991	56.837	56.514	0.00	0.00
ATOM	1372	N	SER	X	89	49.085	55.967	55.773	0.00	0.00
ATOM	1373	H	SER	X	89	48.684	55.226	55.215	0.00	0.00
ATOM	1374	CA	SER	X	89	48.172	56.668	56.657	0.00	0.00
ATOM	1375	HA	SER	X	89	48.668	56.740	57.625	0.00	0.00
ATOM	1376	CB	SER	X	89	47.929	58.105	56.179	0.00	0.00
ATOM	1377	HB2	SER	X	89	47.270	58.221	55.318	0.00	0.00
ATOM	1378	HB3	SER	X	89	47.411	58.594	57.005	0.00	0.00
ATOM	1379	OG	SER	X	89	49.171	58.821	56.128	0.00	0.00
ATOM	1380	HG	SER	X	89	49.835	58.128	56.106	0.00	0.00
ATOM	1381	C	SER	X	89	46.893	55.902	56.847	0.00	0.00
ATOM	1382	O	SER	X	89	46.438	55.121	55.980	0.00	0.00
ATOM	1383	N	GLU	X	90	46.157	56.164	57.924	0.00	0.00
ATOM	1384	H	GLU	X	90	46.395	56.938	58.528	0.00	0.00
ATOM	1385	CA	GLU	X	90	44.760	55.728	58.088	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.577	54.716	57.725	0.00	0.00
ATOM	1387	CB	GLU	X	90	44.154	55.961	59.442	0.00	0.00
ATOM	1388	HB2	GLU	X	90	44.206	57.014	59.719	0.00	0.00
ATOM	1389	HB3	GLU	X	90	43.090	55.729	59.382	0.00	0.00
ATOM	1390	CG	GLU	X	90	44.865	55.142	60.506	0.00	0.00
ATOM	1391	HG2	GLU	X	90	44.618	54.086	60.400	0.00	0.00
ATOM	1392	HG3	GLU	X	90	45.949	55.205	60.403	0.00	0.00
ATOM	1393	CD	GLU	X	90	44.457	55.630	61.873	0.00	0.00
ATOM	1394	OE1	GLU	X	90	43.396	55.156	62.342	0.00	0.00
ATOM	1395	OE2	GLU	X	90	45.212	56.315	62.598	0.00	0.00
ATOM	1396	C	GLU	X	90	43.878	56.628	57.104	0.00	0.00
ATOM	1397	O	GLU	X	90	42.931	56.178	56.446	0.00	0.00
ATOM	1398	N	ASP	X	91	44.162	57.951	57.134	0.00	0.00
ATOM	1399	H	ASP	X	91	44.849	58.265	57.804	0.00	0.00
ATOM	1400	CA	ASP	X	91	43.445	58.881	56.244	0.00	0.00
ATOM	1401	HA	ASP	X	91	42.415	58.529	56.185	0.00	0.00
ATOM	1402	CB	ASP	X	91	43.543	60.261	56.882	0.00	0.00
ATOM	1403	HB2	ASP	X	91	43.114	60.140	57.877	0.00	0.00
ATOM	1404	HB3	ASP	X	91	44.564	60.553	57.127	0.00	0.00
ATOM	1405	CG	ASP	X	91	42.863	61.397	56.118	0.00	0.00
ATOM	1406	OD1	ASP	X	91	41.939	61.046	55.315	0.00	0.00
ATOM	1407	OD2	ASP	X	91	43.104	62.582	56.262	0.00	0.00

ATOM	1408	C	ASP	X	91	43.993	58.632	54.764	0.00	0.00
ATOM	1409	O	ASP	X	91	45.164	58.901	54.443	0.00	0.00
ATOM	1410	N	CYX	X	92	43.158	57.908	53.969	0.00	0.00
ATOM	1411	H	CYX	X	92	42.235	57.730	54.338	0.00	0.00
ATOM	1412	CA	CYX	X	92	43.688	57.091	52.817	0.00	0.00
ATOM	1413	HA	CYX	X	92	44.364	57.708	52.225	0.00	0.00
ATOM	1414	CB	CYX	X	92	44.385	55.838	53.296	0.00	0.00
ATOM	1415	HB2	CYX	X	92	44.821	55.439	52.381	0.00	0.00
ATOM	1416	HB3	CYX	X	92	45.218	56.036	53.970	0.00	0.00
ATOM	1417	SG	CYX	X	92	43.345	54.492	53.908	0.00	0.00
ATOM	1418	C	CYX	X	92	42.640	56.816	51.725	0.00	0.00
ATOM	1419	O	CYX	X	92	42.985	56.192	50.721	0.00	0.00
ATOM	1420	N	LEU	X	93	41.317	57.066	52.014	0.00	0.00
ATOM	1421	H	LEU	X	93	41.153	57.565	52.877	0.00	0.00
ATOM	1422	CA	LEU	X	93	40.134	56.756	51.156	0.00	0.00
ATOM	1423	HA	LEU	X	93	40.281	55.874	50.531	0.00	0.00
ATOM	1424	CB	LEU	X	93	38.862	56.521	52.074	0.00	0.00
ATOM	1425	HB2	LEU	X	93	38.891	57.378	52.747	0.00	0.00
ATOM	1426	HB3	LEU	X	93	38.007	56.595	51.402	0.00	0.00
ATOM	1427	CG	LEU	X	93	38.830	55.137	52.770	0.00	0.00
ATOM	1428	HG	LEU	X	93	39.751	55.138	53.354	0.00	0.00
ATOM	1429	CD1	LEU	X	93	37.584	54.903	53.718	0.00	0.00
ATOM	1430	HD11	LEU	X	93	37.492	55.734	54.417	0.00	0.00
ATOM	1431	HD12	LEU	X	93	36.685	54.870	53.102	0.00	0.00
ATOM	1432	HD13	LEU	X	93	37.631	53.930	54.207	0.00	0.00
ATOM	1433	CD2	LEU	X	93	38.862	53.940	51.796	0.00	0.00
ATOM	1434	HD21	LEU	X	93	37.921	53.674	51.314	0.00	0.00
ATOM	1435	HD22	LEU	X	93	39.681	54.083	51.090	0.00	0.00
ATOM	1436	HD23	LEU	X	93	39.153	53.096	52.421	0.00	0.00
ATOM	1437	C	LEU	X	93	40.051	57.905	50.081	0.00	0.00
ATOM	1438	O	LEU	X	93	39.167	58.807	50.087	0.00	0.00
ATOM	1439	N	TYR	X	94	40.944	57.737	49.102	0.00	0.00
ATOM	1440	H	TYR	X	94	41.554	56.939	49.210	0.00	0.00
ATOM	1441	CA	TYR	X	94	41.232	58.553	47.920	0.00	0.00
ATOM	1442	HA	TYR	X	94	40.417	59.277	47.918	0.00	0.00
ATOM	1443	CB	TYR	X	94	42.546	59.288	47.986	0.00	0.00
ATOM	1444	HB2	TYR	X	94	43.437	58.661	47.940	0.00	0.00
ATOM	1445	HB3	TYR	X	94	42.507	59.955	47.124	0.00	0.00
ATOM	1446	CG	TYR	X	94	42.718	60.108	49.270	0.00	0.00
ATOM	1447	CD1	TYR	X	94	42.098	61.401	49.386	0.00	0.00
ATOM	1448	HD1	TYR	X	94	41.568	61.874	48.573	0.00	0.00
ATOM	1449	CE1	TYR	X	94	42.333	62.164	50.589	0.00	0.00
ATOM	1450	HE1	TYR	X	94	41.854	63.132	50.619	0.00	0.00
ATOM	1451	CZ	TYR	X	94	43.192	61.685	51.593	0.00	0.00
ATOM	1452	OH	TYR	X	94	43.389	62.420	52.734	0.00	0.00
ATOM	1453	HH	TYR	X	94	43.915	61.907	53.351	0.00	0.00
ATOM	1454	CE2	TYR	X	94	43.791	60.401	51.471	0.00	0.00
ATOM	1455	HE2	TYR	X	94	44.407	60.227	52.341	0.00	0.00
ATOM	1456	CD2	TYR	X	94	43.544	59.646	50.290	0.00	0.00
ATOM	1457	HD2	TYR	X	94	44.043	58.696	50.166	0.00	0.00
ATOM	1458	C	TYR	X	94	41.058	57.812	46.590	0.00	0.00
ATOM	1459	O	TYR	X	94	41.330	56.614	46.497	0.00	0.00
ATOM	1460	N	LEU	X	95	40.508	58.429	45.526	0.00	0.00
ATOM	1461	H	LEU	X	95	40.151	59.370	45.609	0.00	0.00
ATOM	1462	CA	LEU	X	95	40.251	57.689	44.277	0.00	0.00
ATOM	1463	HA	LEU	X	95	40.924	56.832	44.267	0.00	0.00
ATOM	1464	CB	LEU	X	95	38.771	57.083	44.173	0.00	0.00
ATOM	1465	HB2	LEU	X	95	38.778	56.289	43.426	0.00	0.00
ATOM	1466	HB3	LEU	X	95	38.636	56.557	45.118	0.00	0.00
ATOM	1467	CG	LEU	X	95	37.580	57.963	43.935	0.00	0.00
ATOM	1468	HG	LEU	X	95	37.706	58.802	44.619	0.00	0.00
ATOM	1469	CD1	LEU	X	95	37.502	58.604	42.555	0.00	0.00
ATOM	1470	HD11	LEU	X	95	36.761	59.399	42.647	0.00	0.00
ATOM	1471	HD12	LEU	X	95	38.489	58.964	42.266	0.00	0.00
ATOM	1472	HD13	LEU	X	95	37.130	57.884	41.826	0.00	0.00
ATOM	1473	CD2	LEU	X	95	36.279	57.136	44.299	0.00	0.00
ATOM	1474	HD21	LEU	X	95	36.344	56.582	45.236	0.00	0.00
ATOM	1475	HD22	LEU	X	95	35.498	57.885	44.426	0.00	0.00
ATOM	1476	HD23	LEU	X	95	36.086	56.383	43.534	0.00	0.00
ATOM	1477	C	LEU	X	95	40.845	58.240	42.933	0.00	0.00

ATOM	1478	O	LEU	X	95	41.306	59.345	43.032	0.00	0.00
ATOM	1479	N	ASN	X	96	40.747	57.640	41.750	0.00	0.00
ATOM	1480	H	ASN	X	96	40.456	56.679	41.856	0.00	0.00
ATOM	1481	CA	ASN	X	96	41.463	58.061	40.568	0.00	0.00
ATOM	1482	HA	ASN	X	96	41.725	59.120	40.555	0.00	0.00
ATOM	1483	CB	ASN	X	96	42.798	57.444	40.529	0.00	0.00
ATOM	1484	HB2	ASN	X	96	42.710	56.369	40.367	0.00	0.00
ATOM	1485	HB3	ASN	X	96	43.470	57.834	39.764	0.00	0.00
ATOM	1486	CG	ASN	X	96	43.569	57.490	41.828	0.00	0.00
ATOM	1487	OD1	ASN	X	96	44.342	58.399	42.027	0.00	0.00
ATOM	1488	ND2	ASN	X	96	43.447	56.517	42.715	0.00	0.00
ATOM	1489	HD21	ASN	X	96	44.241	56.355	43.317	0.00	0.00
ATOM	1490	HD22	ASN	X	96	42.731	55.846	42.478	0.00	0.00
ATOM	1491	C	ASN	X	96	40.734	57.747	39.232	0.00	0.00
ATOM	1492	O	ASN	X	96	40.175	56.706	39.108	0.00	0.00
ATOM	1493	N	VAL	X	97	40.756	58.714	38.301	0.00	0.00
ATOM	1494	H	VAL	X	97	41.295	59.538	38.523	0.00	0.00
ATOM	1495	CA	VAL	X	97	40.101	58.660	36.989	0.00	0.00
ATOM	1496	HA	VAL	X	97	39.614	57.687	36.917	0.00	0.00
ATOM	1497	CB	VAL	X	97	38.962	59.635	37.000	0.00	0.00
ATOM	1498	HB	VAL	X	97	39.389	60.597	37.283	0.00	0.00
ATOM	1499	CG1	VAL	X	97	38.321	59.707	35.618	0.00	0.00
ATOM	1500	HG11	VAL	X	97	39.055	59.913	34.838	0.00	0.00
ATOM	1501	HG12	VAL	X	97	37.724	58.805	35.484	0.00	0.00
ATOM	1502	HG13	VAL	X	97	37.661	60.571	35.549	0.00	0.00
ATOM	1503	CG2	VAL	X	97	37.829	59.277	38.029	0.00	0.00
ATOM	1504	HG21	VAL	X	97	36.956	59.929	38.048	0.00	0.00
ATOM	1505	HG22	VAL	X	97	37.580	58.226	37.882	0.00	0.00
ATOM	1506	HG23	VAL	X	97	38.206	59.336	39.050	0.00	0.00
ATOM	1507	C	VAL	X	97	41.233	58.908	35.926	0.00	0.00
ATOM	1508	O	VAL	X	97	42.195	59.637	36.279	0.00	0.00
ATOM	1509	N	TRP	X	98	41.123	58.178	34.848	0.00	0.00
ATOM	1510	H	TRP	X	98	40.331	57.566	34.715	0.00	0.00
ATOM	1511	CA	TRP	X	98	41.893	58.530	33.646	0.00	0.00
ATOM	1512	HA	TRP	X	98	42.341	59.491	33.897	0.00	0.00
ATOM	1513	CB	TRP	X	98	43.026	57.464	33.292	0.00	0.00
ATOM	1514	HB2	TRP	X	98	42.674	56.433	33.248	0.00	0.00
ATOM	1515	HB3	TRP	X	98	43.461	57.756	32.336	0.00	0.00
ATOM	1516	CG	TRP	X	98	44.311	57.386	34.273	0.00	0.00
ATOM	1517	CD1	TRP	X	98	45.605	57.445	33.955	0.00	0.00
ATOM	1518	HD1	TRP	X	98	46.017	57.724	32.997	0.00	0.00
ATOM	1519	NE1	TRP	X	98	46.416	57.149	35.018	0.00	0.00
ATOM	1520	HE1	TRP	X	98	47.405	57.338	34.942	0.00	0.00
ATOM	1521	CE2	TRP	X	98	45.670	56.844	36.167	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	46.020	56.555	37.547	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	47.032	56.646	37.912	0.00	0.00
ATOM	1524	CH2	TRP	X	98	45.064	55.842	38.307	0.00	0.00
ATOM	1525	HH2	TRP	X	98	45.221	55.491	39.316	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	43.794	55.846	37.773	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	43.023	55.316	38.312	0.00	0.00
ATOM	1528	CE3	TRP	X	98	43.398	56.514	36.561	0.00	0.00
ATOM	1529	HE3	TRP	X	98	42.371	56.470	36.230	0.00	0.00
ATOM	1530	CD2	TRP	X	98	44.353	56.868	35.605	0.00	0.00
ATOM	1531	C	TRP	X	98	40.925	58.539	32.403	0.00	0.00
ATOM	1532	O	TRP	X	98	40.203	57.576	32.195	0.00	0.00
ATOM	1533	N	THR	X	99	40.936	59.543	31.564	0.00	0.00
ATOM	1534	H	THR	X	99	41.575	60.320	31.656	0.00	0.00
ATOM	1535	CA	THR	X	99	39.871	59.838	30.532	0.00	0.00
ATOM	1536	HA	THR	X	99	39.514	58.888	30.133	0.00	0.00
ATOM	1537	CB	THR	X	99	38.559	60.464	31.117	0.00	0.00
ATOM	1538	HB	THR	X	99	38.079	59.781	31.819	0.00	0.00
ATOM	1539	CG2	THR	X	99	38.749	61.781	31.794	0.00	0.00
ATOM	1540	HG21	THR	X	99	37.822	61.981	32.332	0.00	0.00
ATOM	1541	HG22	THR	X	99	39.558	61.784	32.525	0.00	0.00
ATOM	1542	HG23	THR	X	99	38.943	62.513	31.010	0.00	0.00
ATOM	1543	OG1	THR	X	99	37.701	60.684	30.110	0.00	0.00
ATOM	1544	HG1	THR	X	99	37.000	61.308	30.312	0.00	0.00
ATOM	1545	C	THR	X	99	40.426	60.713	29.407	0.00	0.00
ATOM	1546	O	THR	X	99	41.224	61.548	29.727	0.00	0.00
ATOM	1547	N	PRO	X	100	40.228	60.437	28.077	0.00	0.00

ATOM	1548	CD	PRO	X	100	39.372	59.468	27.534	0.00	0.00
ATOM	1549	HD2	PRO	X	100	38.368	59.477	27.958	0.00	0.00
ATOM	1550	HD3	PRO	X	100	39.815	58.473	27.498	0.00	0.00
ATOM	1551	CG	PRO	X	100	39.186	59.987	26.085	0.00	0.00
ATOM	1552	HG2	PRO	X	100	38.497	60.831	26.046	0.00	0.00
ATOM	1553	HG3	PRO	X	100	38.774	59.153	25.517	0.00	0.00
ATOM	1554	CB	PRO	X	100	40.563	60.311	25.703	0.00	0.00
ATOM	1555	HB2	PRO	X	100	40.573	60.948	24.818	0.00	0.00
ATOM	1556	HB3	PRO	X	100	41.152	59.424	25.466	0.00	0.00
ATOM	1557	CA	PRO	X	100	40.960	61.085	27.036	0.00	0.00
ATOM	1558	HA	PRO	X	100	42.020	60.849	27.134	0.00	0.00
ATOM	1559	C	PRO	X	100	40.896	62.633	26.956	0.00	0.00
ATOM	1560	O	PRO	X	100	40.031	63.207	27.512	0.00	0.00
ATOM	1561	N	TYR	X	101	41.857	63.231	26.369	0.00	0.00
ATOM	1562	H	TYR	X	101	42.584	62.784	25.828	0.00	0.00
ATOM	1563	CA	TYR	X	101	41.928	64.756	26.272	0.00	0.00
ATOM	1564	HA	TYR	X	101	41.157	65.149	26.935	0.00	0.00
ATOM	1565	CB	TYR	X	101	43.334	65.164	26.746	0.00	0.00
ATOM	1566	HB2	TYR	X	101	43.489	64.852	27.779	0.00	0.00
ATOM	1567	HB3	TYR	X	101	44.121	64.779	26.097	0.00	0.00
ATOM	1568	CG	TYR	X	101	43.476	66.625	26.819	0.00	0.00
ATOM	1569	CD1	TYR	X	101	43.994	67.343	25.774	0.00	0.00
ATOM	1570	HD1	TYR	X	101	43.994	66.925	24.778	0.00	0.00
ATOM	1571	CE1	TYR	X	101	43.907	68.772	25.793	0.00	0.00
ATOM	1572	HE1	TYR	X	101	44.171	69.374	24.936	0.00	0.00
ATOM	1573	CZ	TYR	X	101	43.481	69.451	27.002	0.00	0.00
ATOM	1574	OH	TYR	X	101	43.572	70.779	27.063	0.00	0.00
ATOM	1575	HH	TYR	X	101	43.450	71.129	26.177	0.00	0.00
ATOM	1576	CE2	TYR	X	101	43.176	68.687	28.154	0.00	0.00
ATOM	1577	HE2	TYR	X	101	42.866	69.157	29.075	0.00	0.00
ATOM	1578	CD2	TYR	X	101	43.080	67.286	28.019	0.00	0.00
ATOM	1579	HD2	TYR	X	101	42.753	66.768	28.909	0.00	0.00
ATOM	1580	C	TYR	X	101	41.623	65.379	24.875	0.00	0.00
ATOM	1581	O	TYR	X	101	42.221	64.887	23.921	0.00	0.00
ATOM	1582	N	PRO	X	102	41.036	66.579	24.738	0.00	0.00
ATOM	1583	CD	PRO	X	102	40.876	67.305	23.502	0.00	0.00
ATOM	1584	HD2	PRO	X	102	40.090	66.745	22.995	0.00	0.00
ATOM	1585	HD3	PRO	X	102	41.766	67.342	22.875	0.00	0.00
ATOM	1586	CG	PRO	X	102	40.501	68.704	23.971	0.00	0.00
ATOM	1587	HG2	PRO	X	102	40.048	69.344	23.214	0.00	0.00
ATOM	1588	HG3	PRO	X	102	41.369	69.282	24.289	0.00	0.00
ATOM	1589	CB	PRO	X	102	39.635	68.434	25.177	0.00	0.00
ATOM	1590	HB2	PRO	X	102	38.581	68.347	24.912	0.00	0.00
ATOM	1591	HB3	PRO	X	102	39.665	69.110	26.032	0.00	0.00
ATOM	1592	CA	PRO	X	102	40.162	67.139	25.736	0.00	0.00
ATOM	1593	HA	PRO	X	102	40.829	67.418	26.552	0.00	0.00
ATOM	1594	C	PRO	X	102	39.042	66.203	26.183	0.00	0.00
ATOM	1595	O	PRO	X	102	38.639	65.207	25.557	0.00	0.00
ATOM	1596	N	ARG	X	103	38.482	66.481	27.394	0.00	0.00
ATOM	1597	H	ARG	X	103	38.986	67.194	27.903	0.00	0.00
ATOM	1598	CA	ARG	X	103	37.712	65.611	28.243	0.00	0.00
ATOM	1599	HA	ARG	X	103	38.241	64.658	28.276	0.00	0.00
ATOM	1600	CB	ARG	X	103	37.784	66.219	29.691	0.00	0.00
ATOM	1601	HB2	ARG	X	103	38.825	66.521	29.811	0.00	0.00
ATOM	1602	HB3	ARG	X	103	37.125	67.084	29.631	0.00	0.00
ATOM	1603	CG	ARG	X	103	37.256	65.340	30.797	0.00	0.00
ATOM	1604	HG2	ARG	X	103	36.412	64.745	30.448	0.00	0.00
ATOM	1605	HG3	ARG	X	103	38.010	64.592	31.042	0.00	0.00
ATOM	1606	CD	ARG	X	103	36.889	66.073	32.107	0.00	0.00
ATOM	1607	HD2	ARG	X	103	36.799	65.296	32.866	0.00	0.00
ATOM	1608	HD3	ARG	X	103	37.728	66.658	32.483	0.00	0.00
ATOM	1609	NE	ARG	X	103	35.697	66.919	31.996	0.00	0.00
ATOM	1610	HE	ARG	X	103	34.903	66.488	31.543	0.00	0.00
ATOM	1611	CZ	ARG	X	103	35.564	68.223	32.331	0.00	0.00
ATOM	1612	NH1	ARG	X	103	36.549	68.995	32.718	0.00	0.00
ATOM	1613	HH11	ARG	X	103	37.484	68.783	32.398	0.00	0.00
ATOM	1614	HH12	ARG	X	103	36.298	69.886	33.122	0.00	0.00
ATOM	1615	NH2	ARG	X	103	34.285	68.674	32.224	0.00	0.00
ATOM	1616	HH21	ARG	X	103	33.581	68.064	31.834	0.00	0.00
ATOM	1617	HH22	ARG	X	103	34.147	69.672	32.142	0.00	0.00

ATOM	1618	C	ARG	X	103	36.272	65.464	27.725	0.00	0.00
ATOM	1619	O	ARG	X	103	35.567	66.451	27.741	0.00	0.00
ATOM	1620	N	PRO	X	104	35.761	64.262	27.251	0.00	0.00
ATOM	1621	CD	PRO	X	104	36.536	63.076	27.057	0.00	0.00
ATOM	1622	HD2	PRO	X	104	36.832	62.676	28.027	0.00	0.00
ATOM	1623	HD3	PRO	X	104	37.421	63.145	26.424	0.00	0.00
ATOM	1624	CG	PRO	X	104	35.522	62.067	26.559	0.00	0.00
ATOM	1625	HG2	PRO	X	104	35.151	61.678	27.507	0.00	0.00
ATOM	1626	HG3	PRO	X	104	35.968	61.360	25.859	0.00	0.00
ATOM	1627	CB	PRO	X	104	34.347	62.853	25.897	0.00	0.00
ATOM	1628	HB2	PRO	X	104	33.400	62.398	26.186	0.00	0.00
ATOM	1629	HB3	PRO	X	104	34.470	62.879	24.814	0.00	0.00
ATOM	1630	CA	PRO	X	104	34.474	64.235	26.570	0.00	0.00
ATOM	1631	HA	PRO	X	104	34.566	65.039	25.839	0.00	0.00
ATOM	1632	C	PRO	X	104	33.340	64.489	27.625	0.00	0.00
ATOM	1633	O	PRO	X	104	33.504	64.124	28.733	0.00	0.00
ATOM	1634	N	THR	X	105	32.216	65.064	27.130	0.00	0.00
ATOM	1635	H	THR	X	105	32.285	65.151	26.126	0.00	0.00
ATOM	1636	CA	THR	X	105	30.947	65.242	27.868	0.00	0.00
ATOM	1637	HA	THR	X	105	31.281	65.183	28.904	0.00	0.00
ATOM	1638	CB	THR	X	105	30.349	66.614	27.591	0.00	0.00
ATOM	1639	HB	THR	X	105	29.313	66.568	27.925	0.00	0.00
ATOM	1640	CG2	THR	X	105	31.057	67.645	28.325	0.00	0.00
ATOM	1641	HG21	THR	X	105	30.847	67.619	29.395	0.00	0.00
ATOM	1642	HG22	THR	X	105	32.146	67.632	28.297	0.00	0.00
ATOM	1643	HG23	THR	X	105	30.734	68.598	27.906	0.00	0.00
ATOM	1644	OG1	THR	X	105	30.398	66.860	26.205	0.00	0.00
ATOM	1645	HG1	THR	X	105	29.972	67.694	25.995	0.00	0.00
ATOM	1646	C	THR	X	105	29.937	64.068	27.510	0.00	0.00
ATOM	1647	O	THR	X	105	29.090	63.694	28.291	0.00	0.00
ATOM	1648	N	SER	X	106	30.061	63.559	26.298	0.00	0.00
ATOM	1649	H	SER	X	106	30.667	64.126	25.722	0.00	0.00
ATOM	1650	CA	SER	X	106	29.477	62.321	25.807	0.00	0.00
ATOM	1651	HA	SER	X	106	28.391	62.306	25.892	0.00	0.00
ATOM	1652	CB	SER	X	106	29.740	62.286	24.230	0.00	0.00
ATOM	1653	HB2	SER	X	106	29.259	63.175	23.822	0.00	0.00
ATOM	1654	HB3	SER	X	106	30.806	62.271	24.003	0.00	0.00
ATOM	1655	OG	SER	X	106	29.075	61.123	23.600	0.00	0.00
ATOM	1656	HG	SER	X	106	28.261	61.460	23.219	0.00	0.00
ATOM	1657	C	SER	X	106	29.994	61.127	26.519	0.00	0.00
ATOM	1658	O	SER	X	106	31.214	60.878	26.384	0.00	0.00
ATOM	1659	N	PRO	X	107	29.233	60.377	27.310	0.00	0.00
ATOM	1660	CD	PRO	X	107	27.758	60.617	27.537	0.00	0.00
ATOM	1661	HD2	PRO	X	107	27.078	60.349	26.728	0.00	0.00
ATOM	1662	HD3	PRO	X	107	27.574	61.637	27.875	0.00	0.00
ATOM	1663	CG	PRO	X	107	27.355	59.807	28.741	0.00	0.00
ATOM	1664	HG2	PRO	X	107	26.301	59.537	28.801	0.00	0.00
ATOM	1665	HG3	PRO	X	107	27.680	60.340	29.635	0.00	0.00
ATOM	1666	CB	PRO	X	107	28.235	58.566	28.587	0.00	0.00
ATOM	1667	HB2	PRO	X	107	27.698	58.050	27.791	0.00	0.00
ATOM	1668	HB3	PRO	X	107	28.379	57.883	29.424	0.00	0.00
ATOM	1669	CA	PRO	X	107	29.583	59.149	28.052	0.00	0.00
ATOM	1670	HA	PRO	X	107	30.074	59.454	28.976	0.00	0.00
ATOM	1671	C	PRO	X	107	30.318	57.988	27.373	0.00	0.00
ATOM	1672	O	PRO	X	107	30.040	57.704	26.183	0.00	0.00
ATOM	1673	N	THR	X	108	31.316	57.385	28.059	0.00	0.00
ATOM	1674	H	THR	X	108	31.477	57.592	29.034	0.00	0.00
ATOM	1675	CA	THR	X	108	32.199	56.311	27.551	0.00	0.00
ATOM	1676	HA	THR	X	108	31.746	55.984	26.615	0.00	0.00
ATOM	1677	CB	THR	X	108	33.647	56.809	27.337	0.00	0.00
ATOM	1678	HB	THR	X	108	34.310	56.578	28.170	0.00	0.00
ATOM	1679	CG2	THR	X	108	34.247	56.115	26.139	0.00	0.00
ATOM	1680	HG21	THR	X	108	35.285	56.362	25.914	0.00	0.00
ATOM	1681	HG22	THR	X	108	34.370	55.091	26.492	0.00	0.00
ATOM	1682	HG23	THR	X	108	33.608	56.257	25.267	0.00	0.00
ATOM	1683	OG1	THR	X	108	33.795	58.203	27.087	0.00	0.00
ATOM	1684	HG1	THR	X	108	33.124	58.590	27.654	0.00	0.00
ATOM	1685	C	THR	X	108	32.275	55.186	28.606	0.00	0.00
ATOM	1686	O	THR	X	108	32.410	55.444	29.793	0.00	0.00
ATOM	1687	N	PRO	X	109	32.310	53.897	28.168	0.00	0.00

ATOM	1688	CD	PRO	X	109	32.245	53.360	26.837	0.00	0.00
ATOM	1689	HD2	PRO	X	109	33.224	53.333	26.358	0.00	0.00
ATOM	1690	HD3	PRO	X	109	31.561	53.859	26.151	0.00	0.00
ATOM	1691	CG	PRO	X	109	31.714	51.956	26.983	0.00	0.00
ATOM	1692	HG2	PRO	X	109	31.902	51.255	26.169	0.00	0.00
ATOM	1693	HG3	PRO	X	109	30.664	52.077	27.250	0.00	0.00
ATOM	1694	CB	PRO	X	109	32.291	51.433	28.301	0.00	0.00
ATOM	1695	HB2	PRO	X	109	33.280	50.984	28.211	0.00	0.00
ATOM	1696	HB3	PRO	X	109	31.522	50.710	28.572	0.00	0.00
ATOM	1697	CA	PRO	X	109	32.258	52.729	29.094	0.00	0.00
ATOM	1698	HA	PRO	X	109	31.406	52.904	29.752	0.00	0.00
ATOM	1699	C	PRO	X	109	33.402	52.743	30.093	0.00	0.00
ATOM	1700	O	PRO	X	109	34.431	53.323	29.788	0.00	0.00
ATOM	1701	N	VAL	X	110	33.302	52.004	31.225	0.00	0.00
ATOM	1702	H	VAL	X	110	32.369	51.656	31.391	0.00	0.00
ATOM	1703	CA	VAL	X	110	34.148	52.174	32.434	0.00	0.00
ATOM	1704	HA	VAL	X	110	34.890	52.912	32.131	0.00	0.00
ATOM	1705	CB	VAL	X	110	33.332	52.917	33.606	0.00	0.00
ATOM	1706	HB	VAL	X	110	32.547	52.251	33.966	0.00	0.00
ATOM	1707	CG1	VAL	X	110	34.150	53.348	34.800	0.00	0.00
ATOM	1708	HG11	VAL	X	110	34.970	53.998	34.492	0.00	0.00
ATOM	1709	HG12	VAL	X	110	33.439	53.777	35.506	0.00	0.00
ATOM	1710	HG13	VAL	X	110	34.568	52.448	35.250	0.00	0.00
ATOM	1711	CG2	VAL	X	110	32.511	54.080	33.043	0.00	0.00
ATOM	1712	HG21	VAL	X	110	33.165	54.809	32.564	0.00	0.00
ATOM	1713	HG22	VAL	X	110	31.714	53.746	32.379	0.00	0.00
ATOM	1714	HG23	VAL	X	110	32.029	54.623	33.856	0.00	0.00
ATOM	1715	C	VAL	X	110	34.770	50.812	32.800	0.00	0.00
ATOM	1716	O	VAL	X	110	34.324	49.748	32.425	0.00	0.00
ATOM	1717	N	LEU	X	111	35.964	50.871	33.331	0.00	0.00
ATOM	1718	H	LEU	X	111	36.326	51.812	33.404	0.00	0.00
ATOM	1719	CA	LEU	X	111	36.947	49.793	33.612	0.00	0.00
ATOM	1720	HA	LEU	X	111	36.308	48.912	33.674	0.00	0.00
ATOM	1721	CB	LEU	X	111	37.997	49.709	32.457	0.00	0.00
ATOM	1722	HB2	LEU	X	111	38.167	50.721	32.089	0.00	0.00
ATOM	1723	HB3	LEU	X	111	38.929	49.291	32.840	0.00	0.00
ATOM	1724	CG	LEU	X	111	37.672	48.756	31.182	0.00	0.00
ATOM	1725	HG	LEU	X	111	36.837	49.312	30.755	0.00	0.00
ATOM	1726	CD1	LEU	X	111	38.767	48.757	30.096	0.00	0.00
ATOM	1727	HD11	LEU	X	111	39.680	48.607	30.674	0.00	0.00
ATOM	1728	HD12	LEU	X	111	38.550	48.033	29.311	0.00	0.00
ATOM	1729	HD13	LEU	X	111	38.710	49.776	29.713	0.00	0.00
ATOM	1730	CD2	LEU	X	111	37.310	47.309	31.692	0.00	0.00
ATOM	1731	HD21	LEU	X	111	36.408	47.320	32.304	0.00	0.00
ATOM	1732	HD22	LEU	X	111	37.294	46.572	30.889	0.00	0.00
ATOM	1733	HD23	LEU	X	111	38.170	47.034	32.302	0.00	0.00
ATOM	1734	C	LEU	X	111	37.589	49.993	34.976	0.00	0.00
ATOM	1735	O	LEU	X	111	38.424	50.887	35.074	0.00	0.00
ATOM	1736	N	VAL	X	112	37.050	49.357	36.004	0.00	0.00
ATOM	1737	H	VAL	X	112	36.383	48.625	35.809	0.00	0.00
ATOM	1738	CA	VAL	X	112	37.390	49.534	37.409	0.00	0.00
ATOM	1739	HA	VAL	X	112	37.940	50.461	37.571	0.00	0.00
ATOM	1740	CB	VAL	X	112	36.098	49.621	38.160	0.00	0.00
ATOM	1741	HB	VAL	X	112	35.602	48.653	38.087	0.00	0.00
ATOM	1742	CG1	VAL	X	112	36.335	50.311	39.557	0.00	0.00
ATOM	1743	HG11	VAL	X	112	37.090	49.806	40.160	0.00	0.00
ATOM	1744	HG12	VAL	X	112	36.641	51.351	39.445	0.00	0.00
ATOM	1745	HG13	VAL	X	112	35.386	50.366	40.090	0.00	0.00
ATOM	1746	CG2	VAL	X	112	35.027	50.574	37.535	0.00	0.00
ATOM	1747	HG21	VAL	X	112	34.264	50.769	38.289	0.00	0.00
ATOM	1748	HG22	VAL	X	112	35.525	51.483	37.199	0.00	0.00
ATOM	1749	HG23	VAL	X	112	34.492	50.225	36.651	0.00	0.00
ATOM	1750	C	VAL	X	112	38.257	48.436	37.980	0.00	0.00
ATOM	1751	O	VAL	X	112	37.858	47.336	38.007	0.00	0.00
ATOM	1752	N	TRP	X	113	39.401	48.883	38.460	0.00	0.00
ATOM	1753	H	TRP	X	113	39.562	49.866	38.289	0.00	0.00
ATOM	1754	CA	TRP	X	113	40.507	47.927	38.841	0.00	0.00
ATOM	1755	HA	TRP	X	113	40.540	46.982	38.299	0.00	0.00
ATOM	1756	CB	TRP	X	113	41.760	48.698	38.366	0.00	0.00
ATOM	1757	HB2	TRP	X	113	41.740	48.815	37.283	0.00	0.00

ATOM	1758	HB3	TRP	X	113	41.762	49.694	38.808	0.00	0.00
ATOM	1759	CG	TRP	X	113	43.018	47.954	38.766	0.00	0.00
ATOM	1760	CD1	TRP	X	113	43.921	48.439	39.712	0.00	0.00
ATOM	1761	HD1	TRP	X	113	43.749	49.390	40.194	0.00	0.00
ATOM	1762	NE1	TRP	X	113	44.950	47.518	39.749	0.00	0.00
ATOM	1763	HE1	TRP	X	113	45.683	47.425	40.437	0.00	0.00
ATOM	1764	CE2	TRP	X	113	44.674	46.411	39.007	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	45.345	45.185	38.790	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	46.305	45.039	39.264	0.00	0.00
ATOM	1767	CH2	TRP	X	113	44.872	44.261	37.826	0.00	0.00
ATOM	1768	HH2	TRP	X	113	45.437	43.349	37.703	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	43.684	44.518	37.137	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	43.166	43.818	36.499	0.00	0.00
ATOM	1771	CE3	TRP	X	113	43.013	45.704	37.351	0.00	0.00
ATOM	1772	HE3	TRP	X	113	42.147	45.825	36.716	0.00	0.00
ATOM	1773	CD2	TRP	X	113	43.451	46.666	38.308	0.00	0.00
ATOM	1774	C	TRP	X	113	40.512	47.654	40.367	0.00	0.00
ATOM	1775	O	TRP	X	113	40.373	48.628	41.145	0.00	0.00
ATOM	1776	N	ILE	X	114	40.563	46.332	40.693	0.00	0.00
ATOM	1777	H	ILE	X	114	40.481	45.672	39.933	0.00	0.00
ATOM	1778	CA	ILE	X	114	40.737	45.912	42.076	0.00	0.00
ATOM	1779	HA	ILE	X	114	40.897	46.797	42.692	0.00	0.00
ATOM	1780	CB	ILE	X	114	39.479	45.160	42.662	0.00	0.00
ATOM	1781	HB	ILE	X	114	39.285	44.179	42.227	0.00	0.00
ATOM	1782	CG2	ILE	X	114	39.670	44.996	44.181	0.00	0.00
ATOM	1783	HG21	ILE	X	114	38.917	44.323	44.593	0.00	0.00
ATOM	1784	HG22	ILE	X	114	40.668	44.566	44.262	0.00	0.00
ATOM	1785	HG23	ILE	X	114	39.782	45.923	44.742	0.00	0.00
ATOM	1786	CG1	ILE	X	114	38.168	46.010	42.453	0.00	0.00
ATOM	1787	HG12	ILE	X	114	38.259	47.028	42.830	0.00	0.00
ATOM	1788	HG13	ILE	X	114	37.942	46.225	41.408	0.00	0.00
ATOM	1789	CD1	ILE	X	114	36.823	45.500	42.966	0.00	0.00
ATOM	1790	HD11	ILE	X	114	36.007	46.150	42.651	0.00	0.00
ATOM	1791	HD12	ILE	X	114	36.640	44.508	42.553	0.00	0.00
ATOM	1792	HD13	ILE	X	114	36.782	45.387	44.049	0.00	0.00
ATOM	1793	C	ILE	X	114	42.103	45.118	42.188	0.00	0.00
ATOM	1794	O	ILE	X	114	42.216	43.989	41.676	0.00	0.00
ATOM	1795	N	TYR	X	115	43.125	45.698	42.905	0.00	0.00
ATOM	1796	H	TYR	X	115	42.915	46.533	43.433	0.00	0.00
ATOM	1797	CA	TYR	X	115	44.559	45.192	42.979	0.00	0.00
ATOM	1798	HA	TYR	X	115	44.847	44.819	41.997	0.00	0.00
ATOM	1799	CB	TYR	X	115	45.589	46.381	43.151	0.00	0.00
ATOM	1800	HB2	TYR	X	115	46.496	45.932	43.557	0.00	0.00
ATOM	1801	HB3	TYR	X	115	45.805	46.875	42.204	0.00	0.00
ATOM	1802	CG	TYR	X	115	45.211	47.501	44.078	0.00	0.00
ATOM	1803	CD1	TYR	X	115	45.513	47.350	45.467	0.00	0.00
ATOM	1804	HD1	TYR	X	115	46.152	46.546	45.801	0.00	0.00
ATOM	1805	CE1	TYR	X	115	45.166	48.431	46.376	0.00	0.00
ATOM	1806	HE1	TYR	X	115	45.342	48.304	47.434	0.00	0.00
ATOM	1807	CZ	TYR	X	115	44.340	49.523	45.907	0.00	0.00
ATOM	1808	OH	TYR	X	115	43.776	50.363	46.825	0.00	0.00
ATOM	1809	HH	TYR	X	115	43.225	51.004	46.369	0.00	0.00
ATOM	1810	CE2	TYR	X	115	44.176	49.663	44.547	0.00	0.00
ATOM	1811	HE2	TYR	X	115	43.511	50.413	44.146	0.00	0.00
ATOM	1812	CD2	TYR	X	115	44.690	48.712	43.659	0.00	0.00
ATOM	1813	HD2	TYR	X	115	44.490	48.800	42.601	0.00	0.00
ATOM	1814	C	TYR	X	115	44.757	44.054	43.937	0.00	0.00
ATOM	1815	O	TYR	X	115	44.291	44.096	45.126	0.00	0.00
ATOM	1816	N	GLY	X	116	45.616	43.079	43.541	0.00	0.00
ATOM	1817	H	GLY	X	116	45.970	42.972	42.601	0.00	0.00
ATOM	1818	CA	GLY	X	116	46.257	42.184	44.505	0.00	0.00
ATOM	1819	HA2	GLY	X	116	45.492	41.738	45.228	0.00	0.00
ATOM	1820	HA3	GLY	X	116	46.636	41.293	44.012	0.00	0.00
ATOM	1821	C	GLY	X	116	47.469	42.730	45.279	0.00	0.00
ATOM	1822	O	GLY	X	116	47.804	43.918	45.345	0.00	0.00
ATOM	1823	N	GLY	X	117	48.053	41.819	45.979	0.00	0.00
ATOM	1824	H	GLY	X	117	47.713	40.879	45.835	0.00	0.00
ATOM	1825	CA	GLY	X	117	48.965	41.974	47.060	0.00	0.00
ATOM	1826	HA2	GLY	X	117	49.871	41.605	46.739	0.00	0.00
ATOM	1827	HA3	GLY	X	117	49.030	43.055	47.187	0.00	0.00

ATOM	1828	C	GLY	X	117	48.631	41.165	48.301	0.00	0.00
ATOM	1829	O	GLY	X	117	49.175	41.373	49.369	0.00	0.00
ATOM	1830	N	GLY	X	118	47.619	40.245	48.244	0.00	0.00
ATOM	1831	H	GLY	X	118	47.089	40.153	47.389	0.00	0.00
ATOM	1832	CA	GLY	X	118	47.192	39.337	49.322	0.00	0.00
ATOM	1833	HA2	GLY	X	118	46.646	38.543	48.808	0.00	0.00
ATOM	1834	HA3	GLY	X	118	48.113	38.951	49.823	0.00	0.00
ATOM	1835	C	GLY	X	118	46.273	39.790	50.419	0.00	0.00
ATOM	1836	O	GLY	X	118	46.221	39.287	51.527	0.00	0.00
ATOM	1837	N	PHE	X	119	45.596	40.909	50.239	0.00	0.00
ATOM	1838	H	PHE	X	119	45.797	41.426	49.395	0.00	0.00
ATOM	1839	CA	PHE	X	119	44.684	41.540	51.203	0.00	0.00
ATOM	1840	HA	PHE	X	119	44.117	42.279	50.637	0.00	0.00
ATOM	1841	CB	PHE	X	119	43.583	40.545	51.847	0.00	0.00
ATOM	1842	HB2	PHE	X	119	44.086	39.860	52.530	0.00	0.00
ATOM	1843	HB3	PHE	X	119	42.926	41.151	52.471	0.00	0.00
ATOM	1844	CG	PHE	X	119	42.675	39.757	50.896	0.00	0.00
ATOM	1845	CD1	PHE	X	119	41.647	40.389	50.153	0.00	0.00
ATOM	1846	HD1	PHE	X	119	41.476	41.453	50.225	0.00	0.00
ATOM	1847	CE1	PHE	X	119	40.894	39.626	49.247	0.00	0.00
ATOM	1848	HE1	PHE	X	119	40.177	40.189	48.668	0.00	0.00
ATOM	1849	CZ	PHE	X	119	41.042	38.240	49.212	0.00	0.00
ATOM	1850	HZ	PHE	X	119	40.334	37.661	48.636	0.00	0.00
ATOM	1851	CE2	PHE	X	119	41.947	37.597	50.006	0.00	0.00
ATOM	1852	HE2	PHE	X	119	42.072	36.524	50.006	0.00	0.00
ATOM	1853	CD2	PHE	X	119	42.802	38.370	50.807	0.00	0.00
ATOM	1854	HD2	PHE	X	119	43.611	37.918	51.362	0.00	0.00
ATOM	1855	C	PHE	X	119	45.389	42.397	52.281	0.00	0.00
ATOM	1856	O	PHE	X	119	44.672	42.989	53.076	0.00	0.00
ATOM	1857	N	TYR	X	120	46.737	42.304	52.399	0.00	0.00
ATOM	1858	H	TYR	X	120	47.252	41.663	51.812	0.00	0.00
ATOM	1859	CA	TYR	X	120	47.519	42.944	53.496	0.00	0.00
ATOM	1860	HA	TYR	X	120	46.811	43.477	54.130	0.00	0.00
ATOM	1861	CB	TYR	X	120	48.304	41.865	54.327	0.00	0.00
ATOM	1862	HB2	TYR	X	120	48.552	42.319	55.287	0.00	0.00
ATOM	1863	HB3	TYR	X	120	47.693	40.967	54.417	0.00	0.00
ATOM	1864	CG	TYR	X	120	49.574	41.404	53.600	0.00	0.00
ATOM	1865	CD1	TYR	X	120	50.735	42.108	53.782	0.00	0.00
ATOM	1866	HD1	TYR	X	120	50.701	42.817	54.596	0.00	0.00
ATOM	1867	CE1	TYR	X	120	51.873	41.834	52.994	0.00	0.00
ATOM	1868	HE1	TYR	X	120	52.759	42.435	53.129	0.00	0.00
ATOM	1869	CZ	TYR	X	120	51.763	40.815	52.041	0.00	0.00
ATOM	1870	OH	TYR	X	120	52.804	40.734	51.215	0.00	0.00
ATOM	1871	HH	TYR	X	120	53.367	41.492	51.393	0.00	0.00
ATOM	1872	CE2	TYR	X	120	50.599	40.005	51.933	0.00	0.00
ATOM	1873	HE2	TYR	X	120	50.561	39.230	51.182	0.00	0.00
ATOM	1874	CD2	TYR	X	120	49.472	40.336	52.673	0.00	0.00
ATOM	1875	HD2	TYR	X	120	48.525	39.826	52.569	0.00	0.00
ATOM	1876	C	TYR	X	120	48.547	43.957	52.891	0.00	0.00
ATOM	1877	O	TYR	X	120	49.310	44.597	53.564	0.00	0.00
ATOM	1878	N	SER	X	121	48.524	44.188	51.616	0.00	0.00
ATOM	1879	H	SER	X	121	47.881	43.686	51.021	0.00	0.00
ATOM	1880	CA	SER	X	121	49.313	45.206	50.869	0.00	0.00
ATOM	1881	HA	SER	X	121	49.181	46.146	51.404	0.00	0.00
ATOM	1882	CB	SER	X	121	50.816	44.859	50.895	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.410	45.647	50.433	0.00	0.00
ATOM	1884	HB3	SER	X	121	51.161	44.690	51.916	0.00	0.00
ATOM	1885	OG	SER	X	121	51.144	43.628	50.187	0.00	0.00
ATOM	1886	HG	SER	X	121	50.508	42.916	50.286	0.00	0.00
ATOM	1887	C	SER	X	121	48.803	45.519	49.465	0.00	0.00
ATOM	1888	O	SER	X	121	47.814	44.894	49.145	0.00	0.00
ATOM	1889	N	GLY	X	122	49.453	46.446	48.692	0.00	0.00
ATOM	1890	H	GLY	X	122	50.303	46.848	49.060	0.00	0.00
ATOM	1891	CA	GLY	X	122	49.017	46.903	47.400	0.00	0.00
ATOM	1892	HA2	GLY	X	122	49.849	47.001	46.666	0.00	0.00
ATOM	1893	HA3	GLY	X	122	48.259	46.258	47.066	0.00	0.00
ATOM	1894	C	GLY	X	122	48.355	48.317	47.518	0.00	0.00
ATOM	1895	O	GLY	X	122	47.931	48.689	48.594	0.00	0.00
ATOM	1896	N	ALA	X	123	48.297	49.101	46.451	0.00	0.00
ATOM	1897	H	ALA	X	123	48.524	48.727	45.540	0.00	0.00

ATOM	1898	CA	ALA	X	123	47.855	50.512	46.430	0.00	0.00
ATOM	1899	HA	ALA	X	123	47.039	50.801	47.092	0.00	0.00
ATOM	1900	CB	ALA	X	123	49.000	51.412	47.046	0.00	0.00
ATOM	1901	HB1	ALA	X	123	48.799	52.480	47.122	0.00	0.00
ATOM	1902	HB2	ALA	X	123	49.437	51.198	48.022	0.00	0.00
ATOM	1903	HB3	ALA	X	123	49.744	51.160	46.291	0.00	0.00
ATOM	1904	C	ALA	X	123	47.562	51.027	44.945	0.00	0.00
ATOM	1905	O	ALA	X	123	48.108	50.505	43.989	0.00	0.00
ATOM	1906	N	SER	X	124	46.607	52.037	44.846	0.00	0.00
ATOM	1907	H	SER	X	124	46.244	52.434	45.701	0.00	0.00
ATOM	1908	CA	SER	X	124	46.301	52.610	43.477	0.00	0.00
ATOM	1909	HA	SER	X	124	46.194	51.681	42.915	0.00	0.00
ATOM	1910	CB	SER	X	124	45.020	53.460	43.561	0.00	0.00
ATOM	1911	HB2	SER	X	124	44.657	53.691	42.560	0.00	0.00
ATOM	1912	HB3	SER	X	124	44.238	52.813	43.960	0.00	0.00
ATOM	1913	OG	SER	X	124	45.221	54.685	44.266	0.00	0.00
ATOM	1914	HG	SER	X	124	45.018	54.550	45.195	0.00	0.00
ATOM	1915	C	SER	X	124	47.506	53.301	42.786	0.00	0.00
ATOM	1916	O	SER	X	124	47.601	53.455	41.577	0.00	0.00
ATOM	1917	N	SER	X	125	48.424	53.884	43.566	0.00	0.00
ATOM	1918	H	SER	X	125	48.373	53.680	44.554	0.00	0.00
ATOM	1919	CA	SER	X	125	49.552	54.686	43.033	0.00	0.00
ATOM	1920	HA	SER	X	125	49.183	55.169	42.129	0.00	0.00
ATOM	1921	CB	SER	X	125	50.091	55.670	44.123	0.00	0.00
ATOM	1922	HB2	SER	X	125	50.805	56.361	43.673	0.00	0.00
ATOM	1923	HB3	SER	X	125	49.365	56.367	44.543	0.00	0.00
ATOM	1924	OG	SER	X	125	50.687	54.869	45.151	0.00	0.00
ATOM	1925	HG	SER	X	125	51.629	54.825	44.973	0.00	0.00
ATOM	1926	C	SER	X	125	50.722	53.906	42.524	0.00	0.00
ATOM	1927	O	SER	X	125	51.695	54.499	42.037	0.00	0.00
ATOM	1928	N	LEU	X	126	50.777	52.593	42.574	0.00	0.00
ATOM	1929	H	LEU	X	126	50.109	52.078	43.129	0.00	0.00
ATOM	1930	CA	LEU	X	126	51.844	51.846	41.913	0.00	0.00
ATOM	1931	HA	LEU	X	126	52.714	52.236	42.441	0.00	0.00
ATOM	1932	CB	LEU	X	126	51.693	50.333	42.186	0.00	0.00
ATOM	1933	HB2	LEU	X	126	50.737	50.095	41.719	0.00	0.00
ATOM	1934	HB3	LEU	X	126	52.506	49.739	41.767	0.00	0.00
ATOM	1935	CG	LEU	X	126	51.629	49.976	43.717	0.00	0.00
ATOM	1936	HG	LEU	X	126	50.760	50.430	44.194	0.00	0.00
ATOM	1937	CD1	LEU	X	126	51.295	48.417	43.859	0.00	0.00
ATOM	1938	HD11	LEU	X	126	52.139	47.870	43.439	0.00	0.00
ATOM	1939	HD12	LEU	X	126	51.251	48.082	44.896	0.00	0.00
ATOM	1940	HD13	LEU	X	126	50.309	48.265	43.421	0.00	0.00
ATOM	1941	CD2	LEU	X	126	52.798	50.314	44.578	0.00	0.00
ATOM	1942	HD21	LEU	X	126	52.737	50.088	45.643	0.00	0.00
ATOM	1943	HD22	LEU	X	126	53.613	49.751	44.124	0.00	0.00
ATOM	1944	HD23	LEU	X	126	53.090	51.346	44.383	0.00	0.00
ATOM	1945	C	LEU	X	126	51.882	52.095	40.411	0.00	0.00
ATOM	1946	O	LEU	X	126	50.808	52.138	39.828	0.00	0.00
ATOM	1947	N	ASP	X	127	53.034	52.394	39.893	0.00	0.00
ATOM	1948	H	ASP	X	127	53.840	52.405	40.502	0.00	0.00
ATOM	1949	CA	ASP	X	127	53.141	53.026	38.548	0.00	0.00
ATOM	1950	HA	ASP	X	127	52.522	53.924	38.566	0.00	0.00
ATOM	1951	CB	ASP	X	127	54.566	53.576	38.498	0.00	0.00
ATOM	1952	HB2	ASP	X	127	54.750	54.298	39.293	0.00	0.00
ATOM	1953	HB3	ASP	X	127	55.266	52.763	38.692	0.00	0.00
ATOM	1954	CG	ASP	X	127	54.846	54.344	37.264	0.00	0.00
ATOM	1955	OD1	ASP	X	127	54.499	55.523	37.278	0.00	0.00
ATOM	1956	OD2	ASP	X	127	55.259	53.737	36.286	0.00	0.00
ATOM	1957	C	ASP	X	127	52.862	52.085	37.345	0.00	0.00
ATOM	1958	O	ASP	X	127	52.722	52.441	36.182	0.00	0.00
ATOM	1959	N	VAL	X	128	52.768	50.814	37.607	0.00	0.00
ATOM	1960	H	VAL	X	128	53.174	50.567	38.498	0.00	0.00
ATOM	1961	CA	VAL	X	128	52.220	49.695	36.778	0.00	0.00
ATOM	1962	HA	VAL	X	128	52.628	49.920	35.792	0.00	0.00
ATOM	1963	CB	VAL	X	128	52.777	48.312	37.286	0.00	0.00
ATOM	1964	HB	VAL	X	128	53.846	48.432	37.460	0.00	0.00
ATOM	1965	CG1	VAL	X	128	52.205	48.007	38.749	0.00	0.00
ATOM	1966	HG11	VAL	X	128	52.745	47.141	39.133	0.00	0.00
ATOM	1967	HG12	VAL	X	128	52.282	48.821	39.470	0.00	0.00

ATOM	1968	HG13	VAL	X	128	51.186	47.620	38.749	0.00	0.00
ATOM	1969	CG2	VAL	X	128	52.518	47.061	36.349	0.00	0.00
ATOM	1970	HG21	VAL	X	128	51.471	46.784	36.220	0.00	0.00
ATOM	1971	HG22	VAL	X	128	52.867	47.137	35.320	0.00	0.00
ATOM	1972	HG23	VAL	X	128	52.992	46.174	36.769	0.00	0.00
ATOM	1973	C	VAL	X	128	50.725	49.668	36.600	0.00	0.00
ATOM	1974	O	VAL	X	128	50.182	49.289	35.564	0.00	0.00
ATOM	1975	N	TYR	X	129	50.031	50.180	37.620	0.00	0.00
ATOM	1976	H	TYR	X	129	50.506	50.348	38.496	0.00	0.00
ATOM	1977	CA	TYR	X	129	48.559	50.190	37.607	0.00	0.00
ATOM	1978	HA	TYR	X	129	48.130	49.477	36.905	0.00	0.00
ATOM	1979	CB	TYR	X	129	47.950	49.832	39.047	0.00	0.00
ATOM	1980	HB2	TYR	X	129	48.185	50.660	39.715	0.00	0.00
ATOM	1981	HB3	TYR	X	129	46.867	49.740	38.970	0.00	0.00
ATOM	1982	CG	TYR	X	129	48.373	48.516	39.660	0.00	0.00
ATOM	1983	CD1	TYR	X	129	48.446	47.348	38.768	0.00	0.00
ATOM	1984	HD1	TYR	X	129	48.385	47.413	37.692	0.00	0.00
ATOM	1985	CE1	TYR	X	129	48.559	46.083	39.321	0.00	0.00
ATOM	1986	HE1	TYR	X	129	48.628	45.188	38.721	0.00	0.00
ATOM	1987	CZ	TYR	X	129	48.601	45.876	40.736	0.00	0.00
ATOM	1988	OH	TYR	X	129	48.506	44.649	41.280	0.00	0.00
ATOM	1989	HH	TYR	X	129	48.332	43.927	40.672	0.00	0.00
ATOM	1990	CE2	TYR	X	129	48.535	46.979	41.597	0.00	0.00
ATOM	1991	HE2	TYR	X	129	48.471	46.774	42.655	0.00	0.00
ATOM	1992	CD2	TYR	X	129	48.423	48.319	41.081	0.00	0.00
ATOM	1993	HD2	TYR	X	129	48.293	49.106	41.810	0.00	0.00
ATOM	1994	C	TYR	X	129	47.969	51.448	36.903	0.00	0.00
ATOM	1995	O	TYR	X	129	46.764	51.709	37.090	0.00	0.00
ATOM	1996	N	ASP	X	130	48.743	52.286	36.298	0.00	0.00
ATOM	1997	H	ASP	X	130	49.694	51.946	36.308	0.00	0.00
ATOM	1998	CA	ASP	X	130	48.477	53.589	35.657	0.00	0.00
ATOM	1999	HA	ASP	X	130	47.731	54.107	36.261	0.00	0.00
ATOM	2000	CB	ASP	X	130	49.750	54.414	35.787	0.00	0.00
ATOM	2001	HB2	ASP	X	130	50.147	54.353	36.801	0.00	0.00
ATOM	2002	HB3	ASP	X	130	50.562	54.033	35.167	0.00	0.00
ATOM	2003	CG	ASP	X	130	49.528	55.943	35.456	0.00	0.00
ATOM	2004	OD1	ASP	X	130	50.052	56.807	36.215	0.00	0.00
ATOM	2005	OD2	ASP	X	130	48.927	56.275	34.395	0.00	0.00
ATOM	2006	C	ASP	X	130	48.026	53.335	34.261	0.00	0.00
ATOM	2007	O	ASP	X	130	48.733	52.953	33.318	0.00	0.00
ATOM	2008	N	GLY	X	131	46.683	53.458	34.077	0.00	0.00
ATOM	2009	H	GLY	X	131	46.183	53.680	34.926	0.00	0.00
ATOM	2010	CA	GLY	X	131	45.942	53.316	32.863	0.00	0.00
ATOM	2011	HA2	GLY	X	131	46.233	52.289	32.534	0.00	0.00
ATOM	2012	HA3	GLY	X	131	44.919	53.333	33.101	0.00	0.00
ATOM	2013	C	GLY	X	131	46.221	54.252	31.605	0.00	0.00
ATOM	2014	O	GLY	X	131	45.392	54.136	30.693	0.00	0.00
ATOM	2015	N	ARG	X	132	47.214	55.170	31.582	0.00	0.00
ATOM	2016	H	ARG	X	132	47.881	55.281	32.332	0.00	0.00
ATOM	2017	CA	ARG	X	132	47.392	56.286	30.611	0.00	0.00
ATOM	2018	HA	ARG	X	132	46.480	56.875	30.704	0.00	0.00
ATOM	2019	CB	ARG	X	132	48.614	57.137	30.997	0.00	0.00
ATOM	2020	HB2	ARG	X	132	48.681	57.969	30.295	0.00	0.00
ATOM	2021	HB3	ARG	X	132	48.387	57.485	32.005	0.00	0.00
ATOM	2022	CG	ARG	X	132	49.960	56.392	31.037	0.00	0.00
ATOM	2023	HG2	ARG	X	132	49.831	55.530	31.691	0.00	0.00
ATOM	2024	HG3	ARG	X	132	50.236	56.104	30.023	0.00	0.00
ATOM	2025	CD	ARG	X	132	51.059	57.325	31.571	0.00	0.00
ATOM	2026	HD2	ARG	X	132	51.988	56.755	31.550	0.00	0.00
ATOM	2027	HD3	ARG	X	132	51.151	58.208	30.939	0.00	0.00
ATOM	2028	NE	ARG	X	132	50.850	57.691	33.008	0.00	0.00
ATOM	2029	HE	ARG	X	132	50.053	57.212	33.402	0.00	0.00
ATOM	2030	CZ	ARG	X	132	51.504	58.616	33.749	0.00	0.00
ATOM	2031	NH1	ARG	X	132	52.534	59.304	33.313	0.00	0.00
ATOM	2032	HH11	ARG	X	132	52.914	59.052	32.412	0.00	0.00
ATOM	2033	HH12	ARG	X	132	53.237	59.679	33.934	0.00	0.00
ATOM	2034	NH2	ARG	X	132	51.255	58.894	35.024	0.00	0.00
ATOM	2035	HH21	ARG	X	132	50.497	58.420	35.494	0.00	0.00
ATOM	2036	HH22	ARG	X	132	51.848	59.548	35.514	0.00	0.00
ATOM	2037	C	ARG	X	132	47.438	55.760	29.210	0.00	0.00

ATOM	2038	O	ARG	X	132	46.825	56.349	28.327	0.00	0.00
ATOM	2039	N	PHE	X	133	48.088	54.625	28.963	0.00	0.00
ATOM	2040	H	PHE	X	133	48.322	54.050	29.759	0.00	0.00
ATOM	2041	CA	PHE	X	133	48.411	54.082	27.644	0.00	0.00
ATOM	2042	HA	PHE	X	133	48.581	54.916	26.964	0.00	0.00
ATOM	2043	CB	PHE	X	133	49.748	53.222	27.773	0.00	0.00
ATOM	2044	HB2	PHE	X	133	49.643	52.326	28.384	0.00	0.00
ATOM	2045	HB3	PHE	X	133	49.937	52.664	26.856	0.00	0.00
ATOM	2046	CG	PHE	X	133	50.970	53.976	28.276	0.00	0.00
ATOM	2047	CD1	PHE	X	133	51.488	53.845	29.571	0.00	0.00
ATOM	2048	HD1	PHE	X	133	50.916	53.232	30.250	0.00	0.00
ATOM	2049	CE1	PHE	X	133	52.703	54.436	29.975	0.00	0.00
ATOM	2050	HE1	PHE	X	133	53.069	54.090	30.930	0.00	0.00
ATOM	2051	CZ	PHE	X	133	53.412	55.264	29.067	0.00	0.00
ATOM	2052	HZ	PHE	X	133	54.277	55.806	29.421	0.00	0.00
ATOM	2053	CE2	PHE	X	133	52.813	55.480	27.748	0.00	0.00
ATOM	2054	HE2	PHE	X	133	53.325	56.087	27.016	0.00	0.00
ATOM	2055	CD2	PHE	X	133	51.741	54.731	27.323	0.00	0.00
ATOM	2056	HD2	PHE	X	133	51.205	54.911	26.403	0.00	0.00
ATOM	2057	C	PHE	X	133	47.174	53.355	27.177	0.00	0.00
ATOM	2058	O	PHE	X	133	46.761	53.455	26.074	0.00	0.00
ATOM	2059	N	LEU	X	134	46.470	52.636	28.086	0.00	0.00
ATOM	2060	H	LEU	X	134	46.931	52.589	28.983	0.00	0.00
ATOM	2061	CA	LEU	X	134	45.182	51.975	27.800	0.00	0.00
ATOM	2062	HA	LEU	X	134	45.330	51.353	26.917	0.00	0.00
ATOM	2063	CB	LEU	X	134	44.733	51.194	29.041	0.00	0.00
ATOM	2064	HB2	LEU	X	134	45.401	50.350	29.210	0.00	0.00
ATOM	2065	HB3	LEU	X	134	44.928	51.768	29.948	0.00	0.00
ATOM	2066	CG	LEU	X	134	43.238	50.676	29.070	0.00	0.00
ATOM	2067	HG	LEU	X	134	42.573	51.528	28.930	0.00	0.00
ATOM	2068	CD1	LEU	X	134	42.990	49.753	27.923	0.00	0.00
ATOM	2069	HD11	LEU	X	134	43.199	50.189	26.946	0.00	0.00
ATOM	2070	HD12	LEU	X	134	43.596	48.866	28.113	0.00	0.00
ATOM	2071	HD13	LEU	X	134	41.993	49.332	28.051	0.00	0.00
ATOM	2072	CD2	LEU	X	134	42.850	49.963	30.338	0.00	0.00
ATOM	2073	HD21	LEU	X	134	43.123	50.636	31.151	0.00	0.00
ATOM	2074	HD22	LEU	X	134	41.805	49.741	30.554	0.00	0.00
ATOM	2075	HD23	LEU	X	134	43.429	49.052	30.483	0.00	0.00
ATOM	2076	C	LEU	X	134	44.192	53.021	27.353	0.00	0.00
ATOM	2077	O	LEU	X	134	43.593	52.938	26.242	0.00	0.00
ATOM	2078	N	VAL	X	135	43.956	54.045	28.105	0.00	0.00
ATOM	2079	H	VAL	X	135	44.392	54.112	29.013	0.00	0.00
ATOM	2080	CA	VAL	X	135	43.006	55.086	27.784	0.00	0.00
ATOM	2081	HA	VAL	X	135	42.034	54.655	27.546	0.00	0.00
ATOM	2082	CB	VAL	X	135	42.835	55.915	29.137	0.00	0.00
ATOM	2083	HB	VAL	X	135	43.856	56.230	29.353	0.00	0.00
ATOM	2084	CG1	VAL	X	135	41.933	57.094	29.013	0.00	0.00
ATOM	2085	HG11	VAL	X	135	40.902	56.806	28.808	0.00	0.00
ATOM	2086	HG12	VAL	X	135	41.988	57.750	29.883	0.00	0.00
ATOM	2087	HG13	VAL	X	135	42.314	57.600	28.126	0.00	0.00
ATOM	2088	CG2	VAL	X	135	42.304	55.041	30.329	0.00	0.00
ATOM	2089	HG21	VAL	X	135	41.284	55.396	30.483	0.00	0.00
ATOM	2090	HG22	VAL	X	135	42.504	54.003	30.067	0.00	0.00
ATOM	2091	HG23	VAL	X	135	42.877	55.283	31.224	0.00	0.00
ATOM	2092	C	VAL	X	135	43.408	55.979	26.560	0.00	0.00
ATOM	2093	O	VAL	X	135	42.640	56.640	25.947	0.00	0.00
ATOM	2094	N	GLN	X	136	44.662	56.094	26.158	0.00	0.00
ATOM	2095	H	GLN	X	136	45.408	55.635	26.660	0.00	0.00
ATOM	2096	CA	GLN	X	136	45.037	56.670	24.823	0.00	0.00
ATOM	2097	HA	GLN	X	136	44.608	57.646	24.595	0.00	0.00
ATOM	2098	CB	GLN	X	136	46.585	56.826	24.705	0.00	0.00
ATOM	2099	HB2	GLN	X	136	46.946	57.759	25.136	0.00	0.00
ATOM	2100	HB3	GLN	X	136	47.110	56.120	25.349	0.00	0.00
ATOM	2101	CG	GLN	X	136	47.143	56.808	23.193	0.00	0.00
ATOM	2102	HG2	GLN	X	136	46.751	55.956	22.637	0.00	0.00
ATOM	2103	HG3	GLN	X	136	46.751	57.698	22.701	0.00	0.00
ATOM	2104	CD	GLN	X	136	48.635	56.613	23.111	0.00	0.00
ATOM	2105	OE1	GLN	X	136	49.415	57.487	23.575	0.00	0.00
ATOM	2106	NE2	GLN	X	136	49.096	55.540	22.597	0.00	0.00
ATOM	2107	HE21	GLN	X	136	50.095	55.465	22.467	0.00	0.00

ATOM	2108	HE22	GLN	X	136	48.502	54.945	22.039	0.00	0.00
ATOM	2109	C	GLN	X	136	44.554	55.660	23.757	0.00	0.00
ATOM	2110	O	GLN	X	136	43.936	56.071	22.779	0.00	0.00
ATOM	2111	N	ALA	X	137	44.764	54.360	23.895	0.00	0.00
ATOM	2112	H	ALA	X	137	45.298	54.041	24.692	0.00	0.00
ATOM	2113	CA	ALA	X	137	44.433	53.333	22.854	0.00	0.00
ATOM	2114	HA	ALA	X	137	44.820	53.676	21.895	0.00	0.00
ATOM	2115	CB	ALA	X	137	45.225	52.073	23.234	0.00	0.00
ATOM	2116	HB1	ALA	X	137	46.307	52.205	23.245	0.00	0.00
ATOM	2117	HB2	ALA	X	137	44.941	51.657	24.201	0.00	0.00
ATOM	2118	HB3	ALA	X	137	44.986	51.297	22.507	0.00	0.00
ATOM	2119	C	ALA	X	137	42.985	52.957	22.680	0.00	0.00
ATOM	2120	O	ALA	X	137	42.562	52.631	21.554	0.00	0.00
ATOM	2121	N	GLU	X	138	42.160	52.912	23.735	0.00	0.00
ATOM	2122	H	GLU	X	138	42.631	53.148	24.596	0.00	0.00
ATOM	2123	CA	GLU	X	138	40.758	52.458	23.829	0.00	0.00
ATOM	2124	HA	GLU	X	138	40.417	52.322	22.802	0.00	0.00
ATOM	2125	CB	GLU	X	138	40.478	51.102	24.465	0.00	0.00
ATOM	2126	HB2	GLU	X	138	40.960	51.166	25.440	0.00	0.00
ATOM	2127	HB3	GLU	X	138	39.429	50.827	24.574	0.00	0.00
ATOM	2128	CG	GLU	X	138	41.233	49.913	23.772	0.00	0.00
ATOM	2129	HG2	GLU	X	138	42.303	50.116	23.747	0.00	0.00
ATOM	2130	HG3	GLU	X	138	41.021	48.991	24.313	0.00	0.00
ATOM	2131	CD	GLU	X	138	40.748	49.655	22.316	0.00	0.00
ATOM	2132	OE1	GLU	X	138	39.502	49.485	22.057	0.00	0.00
ATOM	2133	OE2	GLU	X	138	41.690	49.711	21.458	0.00	0.00
ATOM	2134	C	GLU	X	138	39.754	53.489	24.455	0.00	0.00
ATOM	2135	O	GLU	X	138	38.542	53.275	24.311	0.00	0.00
ATOM	2136	N	ARG	X	139	40.247	54.518	25.137	0.00	0.00
ATOM	2137	H	ARG	X	139	41.252	54.585	25.210	0.00	0.00
ATOM	2138	CA	ARG	X	139	39.471	55.676	25.568	0.00	0.00
ATOM	2139	HA	ARG	X	139	40.105	56.409	26.065	0.00	0.00
ATOM	2140	CB	ARG	X	139	38.888	56.413	24.302	0.00	0.00
ATOM	2141	HB2	ARG	X	139	38.096	55.759	23.937	0.00	0.00
ATOM	2142	HB3	ARG	X	139	38.364	57.224	24.807	0.00	0.00
ATOM	2143	CG	ARG	X	139	39.887	56.875	23.266	0.00	0.00
ATOM	2144	HG2	ARG	X	139	40.577	57.587	23.718	0.00	0.00
ATOM	2145	HG3	ARG	X	139	40.551	56.060	22.976	0.00	0.00
ATOM	2146	CD	ARG	X	139	39.284	57.361	21.970	0.00	0.00
ATOM	2147	HD2	ARG	X	139	40.128	57.585	21.319	0.00	0.00
ATOM	2148	HD3	ARG	X	139	38.604	56.657	21.488	0.00	0.00
ATOM	2149	NE	ARG	X	139	38.496	58.636	22.120	0.00	0.00
ATOM	2150	HE	ARG	X	139	37.493	58.537	22.184	0.00	0.00
ATOM	2151	CZ	ARG	X	139	38.964	59.928	22.281	0.00	0.00
ATOM	2152	NH1	ARG	X	139	40.290	60.262	22.285	0.00	0.00
ATOM	2153	HH11	ARG	X	139	40.997	59.548	22.179	0.00	0.00
ATOM	2154	HH12	ARG	X	139	40.561	61.182	22.601	0.00	0.00
ATOM	2155	NH2	ARG	X	139	38.164	60.898	22.589	0.00	0.00
ATOM	2156	HH21	ARG	X	139	37.164	60.885	22.444	0.00	0.00
ATOM	2157	HH22	ARG	X	139	38.554	61.812	22.773	0.00	0.00
ATOM	2158	C	ARG	X	139	38.410	55.444	26.614	0.00	0.00
ATOM	2159	O	ARG	X	139	38.029	56.442	27.213	0.00	0.00
ATOM	2160	N	THR	X	140	37.946	54.232	26.864	0.00	0.00
ATOM	2161	H	THR	X	140	38.271	53.489	26.262	0.00	0.00
ATOM	2162	CA	THR	X	140	37.163	53.668	27.956	0.00	0.00
ATOM	2163	HA	THR	X	140	36.151	54.036	27.783	0.00	0.00
ATOM	2164	CB	THR	X	140	37.172	52.165	28.031	0.00	0.00
ATOM	2165	HB	THR	X	140	36.847	51.821	29.013	0.00	0.00
ATOM	2166	CG2	THR	X	140	36.127	51.635	27.021	0.00	0.00
ATOM	2167	HG21	THR	X	140	36.336	51.855	25.974	0.00	0.00
ATOM	2168	HG22	THR	X	140	36.106	50.548	27.092	0.00	0.00
ATOM	2169	HG23	THR	X	140	35.151	52.061	27.256	0.00	0.00
ATOM	2170	OG1	THR	X	140	38.468	51.723	27.719	0.00	0.00
ATOM	2171	HG1	THR	X	140	39.053	52.089	28.386	0.00	0.00
ATOM	2172	C	THR	X	140	37.785	54.219	29.214	0.00	0.00
ATOM	2173	O	THR	X	140	39.012	54.170	29.367	0.00	0.00
ATOM	2174	N	VAL	X	141	36.955	54.724	30.113	0.00	0.00
ATOM	2175	H	VAL	X	141	35.970	54.558	29.958	0.00	0.00
ATOM	2176	CA	VAL	X	141	37.444	55.312	31.411	0.00	0.00
ATOM	2177	HA	VAL	X	141	38.197	56.024	31.073	0.00	0.00

ATOM	2178	CB	VAL	X	141	36.314	56.115	32.078	0.00	0.00
ATOM	2179	HB	VAL	X	141	35.452	55.453	32.150	0.00	0.00
ATOM	2180	CG1	VAL	X	141	36.741	56.776	33.401	0.00	0.00
ATOM	2181	HG11	VAL	X	141	37.036	56.095	34.199	0.00	0.00
ATOM	2182	HG12	VAL	X	141	37.652	57.350	33.234	0.00	0.00
ATOM	2183	HG13	VAL	X	141	35.844	57.321	33.694	0.00	0.00
ATOM	2184	CG2	VAL	X	141	35.928	57.303	31.084	0.00	0.00
ATOM	2185	HG21	VAL	X	141	36.764	57.997	30.994	0.00	0.00
ATOM	2186	HG22	VAL	X	141	35.679	56.891	30.106	0.00	0.00
ATOM	2187	HG23	VAL	X	141	35.083	57.905	31.418	0.00	0.00
ATOM	2188	C	VAL	X	141	38.042	54.253	32.212	0.00	0.00
ATOM	2189	O	VAL	X	141	37.457	53.208	32.402	0.00	0.00
ATOM	2190	N	LEU	X	142	39.292	54.402	32.736	0.00	0.00
ATOM	2191	H	LEU	X	142	39.839	55.155	32.343	0.00	0.00
ATOM	2192	CA	LEU	X	142	40.001	53.484	33.681	0.00	0.00
ATOM	2193	HA	LEU	X	142	39.479	52.530	33.754	0.00	0.00
ATOM	2194	CB	LEU	X	142	41.420	53.275	33.125	0.00	0.00
ATOM	2195	HB2	LEU	X	142	41.285	52.685	32.219	0.00	0.00
ATOM	2196	HB3	LEU	X	142	41.917	54.217	32.895	0.00	0.00
ATOM	2197	CG	LEU	X	142	42.339	52.403	34.018	0.00	0.00
ATOM	2198	HG	LEU	X	142	43.194	52.043	33.444	0.00	0.00
ATOM	2199	CD1	LEU	X	142	42.957	53.261	35.167	0.00	0.00
ATOM	2200	HD11	LEU	X	142	43.140	54.300	34.894	0.00	0.00
ATOM	2201	HD12	LEU	X	142	42.228	53.239	35.977	0.00	0.00
ATOM	2202	HD13	LEU	X	142	43.902	52.804	35.458	0.00	0.00
ATOM	2203	CD2	LEU	X	142	41.675	51.083	34.480	0.00	0.00
ATOM	2204	HD21	LEU	X	142	42.471	50.657	35.090	0.00	0.00
ATOM	2205	HD22	LEU	X	142	40.809	51.242	35.122	0.00	0.00
ATOM	2206	HD23	LEU	X	142	41.362	50.503	33.612	0.00	0.00
ATOM	2207	C	LEU	X	142	39.895	54.186	35.022	0.00	0.00
ATOM	2208	O	LEU	X	142	40.135	55.346	35.232	0.00	0.00
ATOM	2209	N	VAL	X	143	39.461	53.445	36.049	0.00	0.00
ATOM	2210	H	VAL	X	143	39.112	52.528	35.806	0.00	0.00
ATOM	2211	CA	VAL	X	143	39.187	53.940	37.423	0.00	0.00
ATOM	2212	HA	VAL	X	143	39.590	54.935	37.612	0.00	0.00
ATOM	2213	CB	VAL	X	143	37.687	54.018	37.745	0.00	0.00
ATOM	2214	HB	VAL	X	143	37.281	53.038	37.998	0.00	0.00
ATOM	2215	CG1	VAL	X	143	37.509	54.907	39.013	0.00	0.00
ATOM	2216	HG11	VAL	X	143	37.956	54.274	39.780	0.00	0.00
ATOM	2217	HG12	VAL	X	143	37.999	55.876	38.920	0.00	0.00
ATOM	2218	HG13	VAL	X	143	36.452	55.046	39.241	0.00	0.00
ATOM	2219	CG2	VAL	X	143	36.868	54.830	36.763	0.00	0.00
ATOM	2220	HG21	VAL	X	143	37.080	54.369	35.798	0.00	0.00
ATOM	2221	HG22	VAL	X	143	35.836	54.898	37.105	0.00	0.00
ATOM	2222	HG23	VAL	X	143	37.296	55.831	36.723	0.00	0.00
ATOM	2223	C	VAL	X	143	39.961	53.009	38.347	0.00	0.00
ATOM	2224	O	VAL	X	143	40.171	51.816	38.125	0.00	0.00
ATOM	2225	N	SER	X	144	40.428	53.578	39.426	0.00	0.00
ATOM	2226	H	SER	X	144	40.433	54.571	39.609	0.00	0.00
ATOM	2227	CA	SER	X	144	41.181	52.840	40.452	0.00	0.00
ATOM	2228	HA	SER	X	144	40.743	51.846	40.540	0.00	0.00
ATOM	2229	CB	SER	X	144	42.708	52.841	40.089	0.00	0.00
ATOM	2230	HB2	SER	X	144	42.845	52.929	39.011	0.00	0.00
ATOM	2231	HB3	SER	X	144	43.117	53.785	40.447	0.00	0.00
ATOM	2232	OG	SER	X	144	43.436	51.671	40.556	0.00	0.00
ATOM	2233	HG	SER	X	144	44.371	51.745	40.351	0.00	0.00
ATOM	2234	C	SER	X	144	40.986	53.483	41.857	0.00	0.00
ATOM	2235	O	SER	X	144	41.075	54.710	41.940	0.00	0.00
ATOM	2236	N	MET	X	145	40.782	52.750	42.982	0.00	0.00
ATOM	2237	H	MET	X	145	40.694	51.744	43.023	0.00	0.00
ATOM	2238	CA	MET	X	145	40.674	53.435	44.271	0.00	0.00
ATOM	2239	HA	MET	X	145	41.012	54.471	44.241	0.00	0.00
ATOM	2240	CB	MET	X	145	39.210	53.407	44.750	0.00	0.00
ATOM	2241	HB2	MET	X	145	39.068	53.782	45.764	0.00	0.00
ATOM	2242	HB3	MET	X	145	38.595	54.046	44.116	0.00	0.00
ATOM	2243	CG	MET	X	145	38.580	52.003	44.754	0.00	0.00
ATOM	2244	HG2	MET	X	145	39.356	51.257	44.924	0.00	0.00
ATOM	2245	HG3	MET	X	145	37.942	51.933	45.635	0.00	0.00
ATOM	2246	SD	MET	X	145	37.742	51.397	43.258	0.00	0.00
ATOM	2247	CE	MET	X	145	37.360	49.677	43.674	0.00	0.00

ATOM	2248	HE1	MET	X	145	38.304	49.416	44.154	0.00	0.00
ATOM	2249	HE2	MET	X	145	36.560	49.613	44.412	0.00	0.00
ATOM	2250	HE3	MET	X	145	37.292	49.042	42.791	0.00	0.00
ATOM	2251	C	MET	X	145	41.476	52.803	45.395	0.00	0.00
ATOM	2252	O	MET	X	145	41.805	51.610	45.400	0.00	0.00
ATOM	2253	N	ASN	X	146	41.910	53.711	46.288	0.00	0.00
ATOM	2254	H	ASN	X	146	41.825	54.703	46.117	0.00	0.00
ATOM	2255	CA	ASN	X	146	42.380	53.166	47.591	0.00	0.00
ATOM	2256	HA	ASN	X	146	43.226	52.509	47.391	0.00	0.00
ATOM	2257	CB	ASN	X	146	43.064	54.301	48.383	0.00	0.00
ATOM	2258	HB2	ASN	X	146	42.445	55.199	48.374	0.00	0.00
ATOM	2259	HB3	ASN	X	146	43.182	54.024	49.431	0.00	0.00
ATOM	2260	CG	ASN	X	146	44.433	54.727	47.815	0.00	0.00
ATOM	2261	OD1	ASN	X	146	44.983	54.056	46.939	0.00	0.00
ATOM	2262	ND2	ASN	X	146	45.043	55.640	48.496	0.00	0.00
ATOM	2263	HD21	ASN	X	146	46.038	55.758	48.368	0.00	0.00
ATOM	2264	HD22	ASN	X	146	44.548	56.042	49.279	0.00	0.00
ATOM	2265	C	ASN	X	146	41.260	52.454	48.353	0.00	0.00
ATOM	2266	O	ASN	X	146	40.047	52.774	48.191	0.00	0.00
ATOM	2267	N	TYR	X	147	41.742	51.611	49.286	0.00	0.00
ATOM	2268	H	TYR	X	147	42.734	51.480	49.428	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.938	50.973	50.316	0.00	0.00
ATOM	2270	HA	TYR	X	147	40.316	51.659	50.891	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.952	49.920	49.789	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.346	49.530	50.606	0.00	0.00
ATOM	2273	HB3	TYR	X	147	39.288	50.597	49.251	0.00	0.00
ATOM	2274	CG	TYR	X	147	40.496	48.962	48.763	0.00	0.00
ATOM	2275	CD1	TYR	X	147	40.376	49.267	47.402	0.00	0.00
ATOM	2276	HD1	TYR	X	147	39.797	50.144	47.152	0.00	0.00
ATOM	2277	CE1	TYR	X	147	40.997	48.378	46.457	0.00	0.00
ATOM	2278	HE1	TYR	X	147	40.985	48.550	45.391	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.750	47.256	46.868	0.00	0.00
ATOM	2280	OH	TYR	X	147	42.443	46.481	45.969	0.00	0.00
ATOM	2281	HH	TYR	X	147	43.071	45.877	46.371	0.00	0.00
ATOM	2282	CE2	TYR	X	147	41.841	46.985	48.288	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.510	46.210	48.631	0.00	0.00
ATOM	2284	CD2	TYR	X	147	41.142	47.793	49.219	0.00	0.00
ATOM	2285	HD2	TYR	X	147	41.278	47.736	50.289	0.00	0.00
ATOM	2286	C	TYR	X	147	41.818	50.322	51.444	0.00	0.00
ATOM	2287	O	TYR	X	147	42.964	49.901	51.127	0.00	0.00
ATOM	2288	N	ARG	X	148	41.292	50.110	52.635	0.00	0.00
ATOM	2289	H	ARG	X	148	40.328	50.399	52.720	0.00	0.00
ATOM	2290	CA	ARG	X	148	41.936	49.497	53.768	0.00	0.00
ATOM	2291	HA	ARG	X	148	42.858	50.069	53.873	0.00	0.00
ATOM	2292	CB	ARG	X	148	41.017	49.773	55.019	0.00	0.00
ATOM	2293	HB2	ARG	X	148	40.041	49.349	54.782	0.00	0.00
ATOM	2294	HB3	ARG	X	148	41.223	49.141	55.883	0.00	0.00
ATOM	2295	CG	ARG	X	148	40.920	51.246	55.487	0.00	0.00
ATOM	2296	HG2	ARG	X	148	41.951	51.484	55.745	0.00	0.00
ATOM	2297	HG3	ARG	X	148	40.569	51.865	54.661	0.00	0.00
ATOM	2298	CD	ARG	X	148	39.904	51.435	56.613	0.00	0.00
ATOM	2299	HD2	ARG	X	148	40.168	50.771	57.436	0.00	0.00
ATOM	2300	HD3	ARG	X	148	39.872	52.495	56.864	0.00	0.00
ATOM	2301	NE	ARG	X	148	38.576	51.239	56.141	0.00	0.00
ATOM	2302	HE	ARG	X	148	38.256	51.364	55.191	0.00	0.00
ATOM	2303	CZ	ARG	X	148	37.525	51.279	56.934	0.00	0.00
ATOM	2304	NH1	ARG	X	148	37.585	51.235	58.232	0.00	0.00
ATOM	2305	HH11	ARG	X	148	38.493	51.260	58.675	0.00	0.00
ATOM	2306	HH12	ARG	X	148	36.752	51.296	58.799	0.00	0.00
ATOM	2307	NH2	ARG	X	148	36.324	51.204	56.488	0.00	0.00
ATOM	2308	HH21	ARG	X	148	36.293	51.226	55.479	0.00	0.00
ATOM	2309	HH22	ARG	X	148	35.633	51.043	57.207	0.00	0.00
ATOM	2310	C	ARG	X	148	42.250	48.022	53.540	0.00	0.00
ATOM	2311	O	ARG	X	148	41.441	47.308	53.014	0.00	0.00
ATOM	2312	N	VAL	X	149	43.398	47.575	54.008	0.00	0.00
ATOM	2313	H	VAL	X	149	43.928	48.246	54.546	0.00	0.00
ATOM	2314	CA	VAL	X	149	43.943	46.215	53.860	0.00	0.00
ATOM	2315	HA	VAL	X	149	43.158	45.476	53.694	0.00	0.00
ATOM	2316	CB	VAL	X	149	44.886	46.107	52.663	0.00	0.00
ATOM	2317	HB	VAL	X	149	45.480	45.197	52.742	0.00	0.00

ATOM	2318	CG1	VAL	X	149	44.160	46.171	51.315	0.00	0.00
ATOM	2319	HG11	VAL	X	149	43.868	47.200	51.101	0.00	0.00
ATOM	2320	HG12	VAL	X	149	44.944	45.820	50.644	0.00	0.00
ATOM	2321	HG13	VAL	X	149	43.262	45.556	51.254	0.00	0.00
ATOM	2322	CG2	VAL	X	149	45.877	47.241	52.536	0.00	0.00
ATOM	2323	HG21	VAL	X	149	46.523	47.266	53.413	0.00	0.00
ATOM	2324	HG22	VAL	X	149	46.525	47.051	51.680	0.00	0.00
ATOM	2325	HG23	VAL	X	149	45.430	48.235	52.519	0.00	0.00
ATOM	2326	C	VAL	X	149	44.602	45.898	55.172	0.00	0.00
ATOM	2327	O	VAL	X	149	44.804	46.795	56.020	0.00	0.00
ATOM	2328	N	GLY	X	150	44.979	44.613	55.382	0.00	0.00
ATOM	2329	H	GLY	X	150	44.715	43.928	54.688	0.00	0.00
ATOM	2330	CA	GLY	X	150	45.484	44.178	56.675	0.00	0.00
ATOM	2331	HA2	GLY	X	150	45.717	43.147	56.614	0.00	0.00
ATOM	2332	HA3	GLY	X	150	46.224	44.738	57.118	0.00	0.00
ATOM	2333	C	GLY	X	150	44.323	44.019	57.733	0.00	0.00
ATOM	2334	O	GLY	X	150	43.189	44.165	57.334	0.00	0.00
ATOM	2335	N	ALA	X	151	44.616	43.940	59.026	0.00	0.00
ATOM	2336	H	ALA	X	151	45.573	43.843	59.332	0.00	0.00
ATOM	2337	CA	ALA	X	151	43.580	44.191	60.037	0.00	0.00
ATOM	2338	HA	ALA	X	151	42.853	43.383	60.118	0.00	0.00
ATOM	2339	CB	ALA	X	151	44.449	44.298	61.390	0.00	0.00
ATOM	2340	HB1	ALA	X	151	43.904	44.301	62.334	0.00	0.00
ATOM	2341	HB2	ALA	X	151	45.137	43.453	61.423	0.00	0.00
ATOM	2342	HB3	ALA	X	151	45.063	45.191	61.506	0.00	0.00
ATOM	2343	C	ALA	X	151	42.772	45.489	59.845	0.00	0.00
ATOM	2344	O	ALA	X	151	41.605	45.447	60.306	0.00	0.00
ATOM	2345	N	PHE	X	152	43.217	46.576	59.173	0.00	0.00
ATOM	2346	H	PHE	X	152	44.109	46.424	58.725	0.00	0.00
ATOM	2347	CA	PHE	X	152	42.505	47.797	58.970	0.00	0.00
ATOM	2348	HA	PHE	X	152	42.227	48.191	59.947	0.00	0.00
ATOM	2349	CB	PHE	X	152	43.414	48.859	58.436	0.00	0.00
ATOM	2350	HB2	PHE	X	152	43.623	48.539	57.415	0.00	0.00
ATOM	2351	HB3	PHE	X	152	42.815	49.768	58.399	0.00	0.00
ATOM	2352	CG	PHE	X	152	44.646	49.198	59.169	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.751	48.260	59.156	0.00	0.00
ATOM	2354	HD1	PHE	X	152	45.739	47.610	58.294	0.00	0.00
ATOM	2355	CE1	PHE	X	152	46.775	48.356	60.082	0.00	0.00
ATOM	2356	HE1	PHE	X	152	47.604	47.673	59.963	0.00	0.00
ATOM	2357	CZ	PHE	X	152	46.771	49.431	61.022	0.00	0.00
ATOM	2358	HZ	PHE	X	152	47.536	49.515	61.780	0.00	0.00
ATOM	2359	CE2	PHE	X	152	45.809	50.432	61.034	0.00	0.00
ATOM	2360	HE2	PHE	X	152	45.787	51.250	61.739	0.00	0.00
ATOM	2361	CD2	PHE	X	152	44.706	50.234	60.124	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.793	50.795	60.252	0.00	0.00
ATOM	2363	C	PHE	X	152	41.175	47.657	58.233	0.00	0.00
ATOM	2364	O	PHE	X	152	40.185	48.330	58.548	0.00	0.00
ATOM	2365	N	GLY	X	153	41.209	46.664	57.317	0.00	0.00
ATOM	2366	H	GLY	X	153	42.106	46.225	57.168	0.00	0.00
ATOM	2367	CA	GLY	X	153	40.016	46.294	56.483	0.00	0.00
ATOM	2368	HA2	GLY	X	153	39.300	47.148	56.389	0.00	0.00
ATOM	2369	HA3	GLY	X	153	40.232	46.255	55.438	0.00	0.00
ATOM	2370	C	GLY	X	153	39.292	45.022	56.835	0.00	0.00
ATOM	2371	O	GLY	X	153	38.155	44.791	56.410	0.00	0.00
ATOM	2372	N	PHE	X	154	39.803	44.170	57.771	0.00	0.00
ATOM	2373	H	PHE	X	154	40.653	44.345	58.289	0.00	0.00
ATOM	2374	CA	PHE	X	154	39.479	42.745	57.770	0.00	0.00
ATOM	2375	HA	PHE	X	154	38.471	42.525	57.420	0.00	0.00
ATOM	2376	CB	PHE	X	154	40.458	42.050	56.825	0.00	0.00
ATOM	2377	HB2	PHE	X	154	41.509	42.323	56.919	0.00	0.00
ATOM	2378	HB3	PHE	X	154	40.278	40.994	57.026	0.00	0.00
ATOM	2379	CG	PHE	X	154	40.047	42.171	55.409	0.00	0.00
ATOM	2380	CD1	PHE	X	154	40.805	42.901	54.463	0.00	0.00
ATOM	2381	HD1	PHE	X	154	41.690	43.388	54.844	0.00	0.00
ATOM	2382	CE1	PHE	X	154	40.393	42.973	53.114	0.00	0.00
ATOM	2383	HE1	PHE	X	154	41.056	43.477	52.426	0.00	0.00
ATOM	2384	CZ	PHE	X	154	39.178	42.499	52.686	0.00	0.00
ATOM	2385	HZ	PHE	X	154	38.750	42.714	51.718	0.00	0.00
ATOM	2386	CE2	PHE	X	154	38.367	41.878	53.681	0.00	0.00
ATOM	2387	HE2	PHE	X	154	37.387	41.534	53.386	0.00	0.00

ATOM	2388	CD2	PHE	X	154	38.853	41.546	54.942	0.00	0.00
ATOM	2389	HD2	PHE	X	154	38.207	41.038	55.642	0.00	0.00
ATOM	2390	C	PHE	X	154	39.355	42.112	59.248	0.00	0.00
ATOM	2391	O	PHE	X	154	39.089	40.903	59.374	0.00	0.00
ATOM	2392	N	LEU	X	155	39.534	42.965	60.300	0.00	0.00
ATOM	2393	H	LEU	X	155	39.800	43.921	60.110	0.00	0.00
ATOM	2394	CA	LEU	X	155	39.402	42.639	61.785	0.00	0.00
ATOM	2395	HA	LEU	X	155	39.978	41.715	61.828	0.00	0.00
ATOM	2396	CB	LEU	X	155	40.188	43.667	62.572	0.00	0.00
ATOM	2397	HB2	LEU	X	155	41.200	43.771	62.181	0.00	0.00
ATOM	2398	HB3	LEU	X	155	39.605	44.587	62.578	0.00	0.00
ATOM	2399	CG	LEU	X	155	40.365	43.374	64.042	0.00	0.00
ATOM	2400	HG	LEU	X	155	40.045	42.333	64.104	0.00	0.00
ATOM	2401	CD1	LEU	X	155	41.906	43.441	64.478	0.00	0.00
ATOM	2402	HD11	LEU	X	155	42.475	42.756	63.850	0.00	0.00
ATOM	2403	HD12	LEU	X	155	42.204	44.486	64.383	0.00	0.00
ATOM	2404	HD13	LEU	X	155	42.106	43.161	65.512	0.00	0.00
ATOM	2405	CD2	LEU	X	155	39.693	44.208	65.051	0.00	0.00
ATOM	2406	HD21	LEU	X	155	40.127	44.074	66.042	0.00	0.00
ATOM	2407	HD22	LEU	X	155	39.867	45.251	64.787	0.00	0.00
ATOM	2408	HD23	LEU	X	155	38.610	44.089	65.090	0.00	0.00
ATOM	2409	C	LEU	X	155	37.935	42.448	62.110	0.00	0.00
ATOM	2410	O	LEU	X	155	37.137	43.362	61.866	0.00	0.00
ATOM	2411	N	ALA	X	156	37.575	41.288	62.554	0.00	0.00
ATOM	2412	H	ALA	X	156	38.235	40.537	62.698	0.00	0.00
ATOM	2413	CA	ALA	X	156	36.200	40.932	62.820	0.00	0.00
ATOM	2414	HA	ALA	X	156	35.609	41.848	62.827	0.00	0.00
ATOM	2415	CB	ALA	X	156	35.736	39.967	61.710	0.00	0.00
ATOM	2416	HB1	ALA	X	156	36.259	39.018	61.821	0.00	0.00
ATOM	2417	HB2	ALA	X	156	34.646	39.953	61.702	0.00	0.00
ATOM	2418	HB3	ALA	X	156	35.974	40.332	60.711	0.00	0.00
ATOM	2419	C	ALA	X	156	36.040	40.378	64.299	0.00	0.00
ATOM	2420	O	ALA	X	156	36.833	39.468	64.634	0.00	0.00
ATOM	2421	N	LEU	X	157	35.079	40.919	65.005	0.00	0.00
ATOM	2422	H	LEU	X	157	34.546	41.736	64.742	0.00	0.00
ATOM	2423	CA	LEU	X	157	34.741	40.298	66.259	0.00	0.00
ATOM	2424	HA	LEU	X	157	35.495	39.553	66.511	0.00	0.00
ATOM	2425	CB	LEU	X	157	34.838	41.271	67.513	0.00	0.00
ATOM	2426	HB2	LEU	X	157	34.087	42.042	67.343	0.00	0.00
ATOM	2427	HB3	LEU	X	157	34.571	40.758	68.437	0.00	0.00
ATOM	2428	CG	LEU	X	157	36.245	41.905	67.743	0.00	0.00
ATOM	2429	HG	LEU	X	157	36.512	42.327	66.774	0.00	0.00
ATOM	2430	CD1	LEU	X	157	36.276	43.036	68.798	0.00	0.00
ATOM	2431	HD11	LEU	X	157	35.461	43.735	68.608	0.00	0.00
ATOM	2432	HD12	LEU	X	157	36.420	42.635	69.801	0.00	0.00
ATOM	2433	HD13	LEU	X	157	37.152	43.671	68.668	0.00	0.00
ATOM	2434	CD2	LEU	X	157	37.262	40.851	68.151	0.00	0.00
ATOM	2435	HD21	LEU	X	157	37.457	40.110	67.376	0.00	0.00
ATOM	2436	HD22	LEU	X	157	38.201	41.371	68.340	0.00	0.00
ATOM	2437	HD23	LEU	X	157	36.924	40.217	68.971	0.00	0.00
ATOM	2438	C	LEU	X	157	33.277	39.811	65.947	0.00	0.00
ATOM	2439	O	LEU	X	157	32.517	40.681	65.576	0.00	0.00
ATOM	2440	N	PRO	X	158	32.895	38.496	66.052	0.00	0.00
ATOM	2441	CD	PRO	X	158	33.778	37.407	66.623	0.00	0.00
ATOM	2442	HD2	PRO	X	158	33.920	37.611	67.684	0.00	0.00
ATOM	2443	HD3	PRO	X	158	34.693	37.387	66.031	0.00	0.00
ATOM	2444	CG	PRO	X	158	33.179	36.045	66.366	0.00	0.00
ATOM	2445	HG2	PRO	X	158	33.310	35.381	67.219	0.00	0.00
ATOM	2446	HG3	PRO	X	158	33.582	35.544	65.486	0.00	0.00
ATOM	2447	CB	PRO	X	158	31.684	36.411	66.189	0.00	0.00
ATOM	2448	HB2	PRO	X	158	31.292	36.382	67.206	0.00	0.00
ATOM	2449	HB3	PRO	X	158	31.161	35.675	65.579	0.00	0.00
ATOM	2450	CA	PRO	X	158	31.595	37.857	65.746	0.00	0.00
ATOM	2451	HA	PRO	X	158	31.516	37.917	64.661	0.00	0.00
ATOM	2452	C	PRO	X	158	30.432	38.702	66.262	0.00	0.00
ATOM	2453	O	PRO	X	158	30.230	38.857	67.491	0.00	0.00
ATOM	2454	N	GLY	X	159	29.797	39.341	65.309	0.00	0.00
ATOM	2455	H	GLY	X	159	29.993	38.933	64.406	0.00	0.00
ATOM	2456	CA	GLY	X	159	28.564	40.104	65.569	0.00	0.00
ATOM	2457	HA2	GLY	X	159	28.180	40.420	64.523	0.00	0.00

ATOM	2458	HA3	GLY	X	159	27.777	39.405	65.938	0.00	0.00
ATOM	2459	C	GLY	X	159	28.536	41.326	66.479	0.00	0.00
ATOM	2460	O	GLY	X	159	27.435	41.621	67.012	0.00	0.00
ATOM	2461	N	SER	X	160	29.676	41.989	66.585	0.00	0.00
ATOM	2462	H	SER	X	160	30.367	41.696	65.909	0.00	0.00
ATOM	2463	CA	SER	X	160	29.926	43.223	67.360	0.00	0.00
ATOM	2464	HA	SER	X	160	29.123	43.321	68.090	0.00	0.00
ATOM	2465	CB	SER	X	160	31.308	43.013	68.053	0.00	0.00
ATOM	2466	HB2	SER	X	160	31.556	41.962	68.201	0.00	0.00
ATOM	2467	HB3	SER	X	160	32.091	43.401	67.402	0.00	0.00
ATOM	2468	OG	SER	X	160	31.427	43.763	69.258	0.00	0.00
ATOM	2469	HG	SER	X	160	31.210	44.689	69.123	0.00	0.00
ATOM	2470	C	SER	X	160	29.968	44.453	66.443	0.00	0.00
ATOM	2471	O	SER	X	160	30.907	44.733	65.648	0.00	0.00
ATOM	2472	N	ARG	X	161	28.891	45.266	66.447	0.00	0.00
ATOM	2473	H	ARG	X	161	28.244	44.955	67.158	0.00	0.00
ATOM	2474	CA	ARG	X	161	28.712	46.553	65.789	0.00	0.00
ATOM	2475	HA	ARG	X	161	28.652	46.309	64.728	0.00	0.00
ATOM	2476	CB	ARG	X	161	27.491	47.222	66.304	0.00	0.00
ATOM	2477	HB2	ARG	X	161	27.433	46.993	67.368	0.00	0.00
ATOM	2478	HB3	ARG	X	161	27.608	48.292	66.135	0.00	0.00
ATOM	2479	CG	ARG	X	161	26.178	46.762	65.665	0.00	0.00
ATOM	2480	HG2	ARG	X	161	26.171	46.940	64.589	0.00	0.00
ATOM	2481	HG3	ARG	X	161	25.992	45.701	65.834	0.00	0.00
ATOM	2482	CD	ARG	X	161	24.974	47.597	66.150	0.00	0.00
ATOM	2483	HD2	ARG	X	161	24.935	47.399	67.221	0.00	0.00
ATOM	2484	HD3	ARG	X	161	25.181	48.632	65.878	0.00	0.00
ATOM	2485	NE	ARG	X	161	23.690	47.102	65.548	0.00	0.00
ATOM	2486	HE	ARG	X	161	23.810	46.240	65.036	0.00	0.00
ATOM	2487	CZ	ARG	X	161	22.501	47.630	65.528	0.00	0.00
ATOM	2488	NH1	ARG	X	161	22.143	48.687	66.165	0.00	0.00
ATOM	2489	HH11	ARG	X	161	22.796	49.306	66.623	0.00	0.00
ATOM	2490	HH12	ARG	X	161	21.168	48.950	66.130	0.00	0.00
ATOM	2491	NH2	ARG	X	161	21.449	46.996	65.121	0.00	0.00
ATOM	2492	HH21	ARG	X	161	21.608	46.028	64.879	0.00	0.00
ATOM	2493	HH22	ARG	X	161	20.542	47.425	65.230	0.00	0.00
ATOM	2494	C	ARG	X	161	29.977	47.501	65.721	0.00	0.00
ATOM	2495	O	ARG	X	161	29.986	48.384	64.834	0.00	0.00
ATOM	2496	N	GLU	X	162	31.033	47.297	66.527	0.00	0.00
ATOM	2497	H	GLU	X	162	30.906	46.576	67.223	0.00	0.00
ATOM	2498	CA	GLU	X	162	32.154	48.193	66.820	0.00	0.00
ATOM	2499	HA	GLU	X	162	31.866	49.239	66.716	0.00	0.00
ATOM	2500	CB	GLU	X	162	32.740	47.818	68.216	0.00	0.00
ATOM	2501	HB2	GLU	X	162	33.138	46.815	68.372	0.00	0.00
ATOM	2502	HB3	GLU	X	162	33.571	48.503	68.382	0.00	0.00
ATOM	2503	CG	GLU	X	162	31.886	48.211	69.388	0.00	0.00
ATOM	2504	HG2	GLU	X	162	32.510	48.126	70.277	0.00	0.00
ATOM	2505	HG3	GLU	X	162	31.540	49.216	69.142	0.00	0.00
ATOM	2506	CD	GLU	X	162	30.665	47.357	69.469	0.00	0.00
ATOM	2507	OE1	GLU	X	162	30.744	46.133	69.153	0.00	0.00
ATOM	2508	OE2	GLU	X	162	29.540	47.778	69.747	0.00	0.00
ATOM	2509	C	GLU	X	162	33.347	47.903	65.902	0.00	0.00
ATOM	2510	O	GLU	X	162	34.247	48.705	65.794	0.00	0.00
ATOM	2511	N	ALA	X	163	33.325	46.692	65.278	0.00	0.00
ATOM	2512	H	ALA	X	163	32.550	46.071	65.462	0.00	0.00
ATOM	2513	CA	ALA	X	163	34.308	46.111	64.393	0.00	0.00
ATOM	2514	HA	ALA	X	163	34.486	46.881	63.642	0.00	0.00
ATOM	2515	CB	ALA	X	163	35.701	45.924	65.015	0.00	0.00
ATOM	2516	HB1	ALA	X	163	36.384	45.542	64.256	0.00	0.00
ATOM	2517	HB2	ALA	X	163	36.045	46.879	65.412	0.00	0.00
ATOM	2518	HB3	ALA	X	163	35.723	45.273	65.889	0.00	0.00
ATOM	2519	C	ALA	X	163	33.819	44.881	63.640	0.00	0.00
ATOM	2520	O	ALA	X	163	34.286	43.779	63.912	0.00	0.00
ATOM	2521	N	PRO	X	164	32.897	44.982	62.661	0.00	0.00
ATOM	2522	CD	PRO	X	164	32.472	46.224	62.002	0.00	0.00
ATOM	2523	HD2	PRO	X	164	33.323	46.548	61.403	0.00	0.00
ATOM	2524	HD3	PRO	X	164	31.956	46.870	62.713	0.00	0.00
ATOM	2525	CG	PRO	X	164	31.383	45.814	61.058	0.00	0.00
ATOM	2526	HG2	PRO	X	164	31.668	45.725	60.010	0.00	0.00
ATOM	2527	HG3	PRO	X	164	30.588	46.558	61.109	0.00	0.00

ATOM	2528	CB	PRO	X	164	30.808	44.481	61.497	0.00	0.00
ATOM	2529	HB2	PRO	X	164	30.438	43.867	60.676	0.00	0.00
ATOM	2530	HB3	PRO	X	164	29.946	44.671	62.136	0.00	0.00
ATOM	2531	CA	PRO	X	164	32.088	43.889	62.153	0.00	0.00
ATOM	2532	HA	PRO	X	164	31.782	43.279	63.003	0.00	0.00
ATOM	2533	C	PRO	X	164	32.808	42.968	61.144	0.00	0.00
ATOM	2534	O	PRO	X	164	32.223	41.997	60.780	0.00	0.00
ATOM	2535	N	GLY	X	165	34.047	43.309	60.671	0.00	0.00
ATOM	2536	H	GLY	X	165	34.504	44.179	60.907	0.00	0.00
ATOM	2537	CA	GLY	X	165	34.731	42.437	59.607	0.00	0.00
ATOM	2538	HA2	GLY	X	165	35.764	42.716	59.739	0.00	0.00
ATOM	2539	HA3	GLY	X	165	34.382	41.349	59.747	0.00	0.00
ATOM	2540	C	GLY	X	165	34.441	42.986	58.197	0.00	0.00
ATOM	2541	O	GLY	X	165	33.690	44.001	58.013	0.00	0.00
ATOM	2542	N	ASN	X	166	35.320	42.654	57.255	0.00	0.00
ATOM	2543	H	ASN	X	166	36.067	42.034	57.534	0.00	0.00
ATOM	2544	CA	ASN	X	166	35.248	42.931	55.794	0.00	0.00
ATOM	2545	HA	ASN	X	166	35.976	42.299	55.285	0.00	0.00
ATOM	2546	CB	ASN	X	166	33.936	42.297	55.226	0.00	0.00
ATOM	2547	HB2	ASN	X	166	33.083	42.771	55.710	0.00	0.00
ATOM	2548	HB3	ASN	X	166	33.840	42.499	54.160	0.00	0.00
ATOM	2549	CG	ASN	X	166	33.789	40.776	55.348	0.00	0.00
ATOM	2550	OD1	ASN	X	166	34.451	40.033	54.625	0.00	0.00
ATOM	2551	ND2	ASN	X	166	32.866	40.317	56.176	0.00	0.00
ATOM	2552	HD21	ASN	X	166	32.711	39.319	56.156	0.00	0.00
ATOM	2553	HD22	ASN	X	166	32.260	40.935	56.696	0.00	0.00
ATOM	2554	C	ASN	X	166	35.246	44.378	55.303	0.00	0.00
ATOM	2555	O	ASN	X	166	35.072	44.636	54.109	0.00	0.00
ATOM	2556	N	VAL	X	167	35.312	45.346	56.197	0.00	0.00
ATOM	2557	H	VAL	X	167	35.284	45.136	57.185	0.00	0.00
ATOM	2558	CA	VAL	X	167	35.078	46.767	55.870	0.00	0.00
ATOM	2559	HA	VAL	X	167	34.084	46.692	55.428	0.00	0.00
ATOM	2560	CB	VAL	X	167	35.108	47.666	57.147	0.00	0.00
ATOM	2561	HB	VAL	X	167	34.727	48.655	56.891	0.00	0.00
ATOM	2562	CG1	VAL	X	167	33.965	47.299	58.056	0.00	0.00
ATOM	2563	HG11	VAL	X	167	33.071	47.021	57.497	0.00	0.00
ATOM	2564	HG12	VAL	X	167	34.313	46.595	58.812	0.00	0.00
ATOM	2565	HG13	VAL	X	167	33.804	48.216	58.622	0.00	0.00
ATOM	2566	CG2	VAL	X	167	36.572	47.814	57.842	0.00	0.00
ATOM	2567	HG21	VAL	X	167	37.203	48.252	57.068	0.00	0.00
ATOM	2568	HG22	VAL	X	167	36.476	48.516	58.670	0.00	0.00
ATOM	2569	HG23	VAL	X	167	37.057	46.856	58.029	0.00	0.00
ATOM	2570	C	VAL	X	167	36.004	47.403	54.817	0.00	0.00
ATOM	2571	O	VAL	X	167	35.726	48.521	54.352	0.00	0.00
ATOM	2572	N	GLY	X	168	37.074	46.686	54.389	0.00	0.00
ATOM	2573	H	GLY	X	168	37.110	45.713	54.658	0.00	0.00
ATOM	2574	CA	GLY	X	168	37.919	47.209	53.302	0.00	0.00
ATOM	2575	HA2	GLY	X	168	37.899	48.241	53.542	0.00	0.00
ATOM	2576	HA3	GLY	X	168	38.935	46.810	53.278	0.00	0.00
ATOM	2577	C	GLY	X	168	37.278	46.980	51.886	0.00	0.00
ATOM	2578	O	GLY	X	168	37.571	47.638	50.861	0.00	0.00
ATOM	2579	N	LEU	X	169	36.308	46.061	51.803	0.00	0.00
ATOM	2580	H	LEU	X	169	36.101	45.472	52.598	0.00	0.00
ATOM	2581	CA	LEU	X	169	35.319	45.825	50.714	0.00	0.00
ATOM	2582	HA	LEU	X	169	35.776	45.857	49.725	0.00	0.00
ATOM	2583	CB	LEU	X	169	34.730	44.399	50.851	0.00	0.00
ATOM	2584	HB2	LEU	X	169	34.049	44.367	51.702	0.00	0.00
ATOM	2585	HB3	LEU	X	169	34.111	44.192	49.978	0.00	0.00
ATOM	2586	CG	LEU	X	169	35.827	43.304	50.890	0.00	0.00
ATOM	2587	HG	LEU	X	169	36.384	43.358	51.826	0.00	0.00
ATOM	2588	CD1	LEU	X	169	35.197	41.865	51.077	0.00	0.00
ATOM	2589	HD11	LEU	X	169	34.586	41.545	50.233	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.039	41.184	51.206	0.00	0.00
ATOM	2591	HD13	LEU	X	169	34.604	41.951	51.988	0.00	0.00
ATOM	2592	CD2	LEU	X	169	36.827	43.394	49.747	0.00	0.00
ATOM	2593	HD21	LEU	X	169	36.356	43.376	48.764	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.431	44.297	49.837	0.00	0.00
ATOM	2595	HD23	LEU	X	169	37.568	42.606	49.885	0.00	0.00
ATOM	2596	C	LEU	X	169	34.164	46.860	50.689	0.00	0.00
ATOM	2597	O	LEU	X	169	33.610	47.086	49.621	0.00	0.00

ATOM	2598	N	LEU	X	170	33.795	47.432	51.883	0.00	0.00
ATOM	2599	H	LEU	X	170	34.074	46.904	52.698	0.00	0.00
ATOM	2600	CA	LEU	X	170	32.758	48.493	52.037	0.00	0.00
ATOM	2601	HA	LEU	X	170	31.934	48.354	51.337	0.00	0.00
ATOM	2602	CB	LEU	X	170	32.127	48.570	53.482	0.00	0.00
ATOM	2603	HB2	LEU	X	170	32.950	48.696	54.186	0.00	0.00
ATOM	2604	HB3	LEU	X	170	31.537	49.484	53.548	0.00	0.00
ATOM	2605	CG	LEU	X	170	31.269	47.418	53.801	0.00	0.00
ATOM	2606	HG	LEU	X	170	31.828	46.494	53.650	0.00	0.00
ATOM	2607	CD1	LEU	X	170	30.782	47.523	55.314	0.00	0.00
ATOM	2608	HD11	LEU	X	170	31.693	47.597	55.909	0.00	0.00
ATOM	2609	HD12	LEU	X	170	30.113	48.377	55.422	0.00	0.00
ATOM	2610	HD13	LEU	X	170	30.401	46.581	55.708	0.00	0.00
ATOM	2611	CD2	LEU	X	170	30.073	47.269	52.832	0.00	0.00
ATOM	2612	HD21	LEU	X	170	30.434	46.852	51.891	0.00	0.00
ATOM	2613	HD22	LEU	X	170	29.455	46.503	53.300	0.00	0.00
ATOM	2614	HD23	LEU	X	170	29.497	48.189	52.733	0.00	0.00
ATOM	2615	C	LEU	X	170	33.302	49.839	51.637	0.00	0.00
ATOM	2616	O	LEU	X	170	32.580	50.661	51.060	0.00	0.00
ATOM	2617	N	ASP	X	171	34.631	49.955	51.620	0.00	0.00
ATOM	2618	H	ASP	X	171	35.204	49.265	52.085	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.425	51.073	51.094	0.00	0.00
ATOM	2620	HA	ASP	X	171	35.069	52.059	51.396	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.869	50.928	51.520	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.098	49.888	51.284	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.586	51.529	50.962	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.140	51.126	52.999	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.339	51.683	53.777	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.252	50.733	53.340	0.00	0.00
ATOM	2627	C	ASP	X	171	35.349	50.943	49.561	0.00	0.00
ATOM	2628	O	ASP	X	171	34.999	51.864	48.812	0.00	0.00
ATOM	2629	N	GLN	X	172	35.609	49.792	48.960	0.00	0.00
ATOM	2630	H	GLN	X	172	35.801	48.990	49.543	0.00	0.00
ATOM	2631	CA	GLN	X	172	35.408	49.509	47.515	0.00	0.00
ATOM	2632	HA	GLN	X	172	36.020	50.095	46.830	0.00	0.00
ATOM	2633	CB	GLN	X	172	35.774	48.028	47.189	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.371	47.363	47.954	0.00	0.00
ATOM	2635	HB3	GLN	X	172	35.372	47.706	46.228	0.00	0.00
ATOM	2636	CG	GLN	X	172	37.324	47.791	47.276	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.707	48.287	46.384	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.671	48.238	48.207	0.00	0.00
ATOM	2639	CD	GLN	X	172	37.754	46.310	47.198	0.00	0.00
ATOM	2640	OE1	GLN	X	172	36.883	45.442	47.100	0.00	0.00
ATOM	2641	NE2	GLN	X	172	38.990	45.954	47.311	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.257	44.985	47.217	0.00	0.00
ATOM	2643	HE22	GLN	X	172	39.607	46.684	47.636	0.00	0.00
ATOM	2644	C	GLN	X	172	33.962	49.747	47.157	0.00	0.00
ATOM	2645	O	GLN	X	172	33.646	50.488	46.236	0.00	0.00
ATOM	2646	N	ARG	X	173	33.083	49.102	47.880	0.00	0.00
ATOM	2647	H	ARG	X	173	33.370	48.532	48.662	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.680	49.340	47.584	0.00	0.00
ATOM	2649	HA	ARG	X	173	31.561	49.027	46.547	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.735	48.455	48.500	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.027	47.416	48.651	0.00	0.00
ATOM	2652	HB3	ARG	X	173	30.846	48.978	49.450	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.228	48.473	48.220	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.939	49.523	48.168	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.062	48.044	47.232	0.00	0.00
ATOM	2656	CD	ARG	X	173	28.406	47.818	49.334	0.00	0.00
ATOM	2657	HD2	ARG	X	173	28.917	48.012	50.277	0.00	0.00
ATOM	2658	HD3	ARG	X	173	27.404	48.246	49.311	0.00	0.00
ATOM	2659	NE	ARG	X	173	28.256	46.382	49.045	0.00	0.00
ATOM	2660	HE	ARG	X	173	28.574	46.066	48.140	0.00	0.00
ATOM	2661	CZ	ARG	X	173	28.073	45.498	49.929	0.00	0.00
ATOM	2662	NH1	ARG	X	173	27.671	45.775	51.160	0.00	0.00
ATOM	2663	HH11	ARG	X	173	27.364	46.686	51.469	0.00	0.00
ATOM	2664	HH12	ARG	X	173	27.733	44.991	51.794	0.00	0.00
ATOM	2665	NH2	ARG	X	173	28.365	44.233	49.602	0.00	0.00
ATOM	2666	HH21	ARG	X	173	28.729	44.001	48.688	0.00	0.00
ATOM	2667	HH22	ARG	X	173	28.263	43.495	50.283	0.00	0.00

ATOM	2668	C	ARG	X	173	31.273	50.840	47.588	0.00	0.00
ATOM	2669	O	ARG	X	173	30.573	51.307	46.636	0.00	0.00
ATOM	2670	N	LEU	X	174	31.714	51.694	48.517	0.00	0.00
ATOM	2671	H	LEU	X	174	32.216	51.222	49.256	0.00	0.00
ATOM	2672	CA	LEU	X	174	31.383	53.103	48.520	0.00	0.00
ATOM	2673	HA	LEU	X	174	30.313	53.276	48.403	0.00	0.00
ATOM	2674	CB	LEU	X	174	31.765	53.829	49.808	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.385	53.158	50.579	0.00	0.00
ATOM	2676	HB3	LEU	X	174	32.840	53.960	49.937	0.00	0.00
ATOM	2677	CG	LEU	X	174	31.187	55.251	49.948	0.00	0.00
ATOM	2678	HG	LEU	X	174	31.431	55.835	49.061	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.650	55.256	50.087	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.123	54.874	49.213	0.00	0.00
ATOM	2681	HD12	LEU	X	174	29.283	54.614	50.888	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.317	56.280	50.252	0.00	0.00
ATOM	2683	CD2	LEU	X	174	31.771	55.967	51.184	0.00	0.00
ATOM	2684	HD21	LEU	X	174	31.286	56.938	51.283	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.598	55.391	52.093	0.00	0.00
ATOM	2686	HD23	LEU	X	174	32.854	56.093	51.169	0.00	0.00
ATOM	2687	C	LEU	X	174	32.015	53.744	47.249	0.00	0.00
ATOM	2688	O	LEU	X	174	31.511	54.715	46.682	0.00	0.00
ATOM	2689	N	ALA	X	175	33.248	53.385	46.842	0.00	0.00
ATOM	2690	H	ALA	X	175	33.719	52.687	47.401	0.00	0.00
ATOM	2691	CA	ALA	X	175	33.954	53.853	45.627	0.00	0.00
ATOM	2692	HA	ALA	X	175	34.089	54.932	45.712	0.00	0.00
ATOM	2693	CB	ALA	X	175	35.359	53.324	45.530	0.00	0.00
ATOM	2694	HB1	ALA	X	175	35.814	53.641	44.592	0.00	0.00
ATOM	2695	HB2	ALA	X	175	36.082	53.664	46.272	0.00	0.00
ATOM	2696	HB3	ALA	X	175	35.306	52.236	45.496	0.00	0.00
ATOM	2697	C	ALA	X	175	33.134	53.531	44.380	0.00	0.00
ATOM	2698	O	ALA	X	175	32.934	54.374	43.483	0.00	0.00
ATOM	2699	N	LEU	X	176	32.543	52.344	44.296	0.00	0.00
ATOM	2700	H	LEU	X	176	32.471	51.696	45.067	0.00	0.00
ATOM	2701	CA	LEU	X	176	31.659	52.049	43.104	0.00	0.00
ATOM	2702	HA	LEU	X	176	32.255	52.263	42.217	0.00	0.00
ATOM	2703	CB	LEU	X	176	31.399	50.551	43.125	0.00	0.00
ATOM	2704	HB2	LEU	X	176	30.985	50.263	44.092	0.00	0.00
ATOM	2705	HB3	LEU	X	176	30.678	50.326	42.339	0.00	0.00
ATOM	2706	CG	LEU	X	176	32.528	49.545	42.884	0.00	0.00
ATOM	2707	HG	LEU	X	176	33.317	49.851	43.570	0.00	0.00
ATOM	2708	CD1	LEU	X	176	32.156	48.074	43.237	0.00	0.00
ATOM	2709	HD11	LEU	X	176	33.063	47.519	43.476	0.00	0.00
ATOM	2710	HD12	LEU	X	176	31.459	48.095	44.074	0.00	0.00
ATOM	2711	HD13	LEU	X	176	31.668	47.647	42.361	0.00	0.00
ATOM	2712	CD2	LEU	X	176	33.146	49.742	41.434	0.00	0.00
ATOM	2713	HD21	LEU	X	176	33.494	50.774	41.480	0.00	0.00
ATOM	2714	HD22	LEU	X	176	33.870	48.976	41.155	0.00	0.00
ATOM	2715	HD23	LEU	X	176	32.263	49.526	40.832	0.00	0.00
ATOM	2716	C	LEU	X	176	30.394	52.912	43.097	0.00	0.00
ATOM	2717	O	LEU	X	176	29.787	53.264	42.091	0.00	0.00
ATOM	2718	N	GLN	X	177	29.846	53.135	44.326	0.00	0.00
ATOM	2719	H	GLN	X	177	30.247	52.676	45.132	0.00	0.00
ATOM	2720	CA	GLN	X	177	28.724	54.088	44.508	0.00	0.00
ATOM	2721	HA	GLN	X	177	27.861	53.615	44.041	0.00	0.00
ATOM	2722	CB	GLN	X	177	28.225	54.099	45.939	0.00	0.00
ATOM	2723	HB2	GLN	X	177	28.144	53.112	46.395	0.00	0.00
ATOM	2724	HB3	GLN	X	177	29.023	54.574	46.509	0.00	0.00
ATOM	2725	CG	GLN	X	177	26.846	54.799	46.161	0.00	0.00
ATOM	2726	HG2	GLN	X	177	26.930	55.829	45.812	0.00	0.00
ATOM	2727	HG3	GLN	X	177	26.139	54.265	45.526	0.00	0.00
ATOM	2728	CD	GLN	X	177	26.302	54.666	47.536	0.00	0.00
ATOM	2729	OE1	GLN	X	177	25.878	53.578	47.934	0.00	0.00
ATOM	2730	NE2	GLN	X	177	26.411	55.670	48.307	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.950	55.684	49.205	0.00	0.00
ATOM	2732	HE22	GLN	X	177	26.735	56.531	47.888	0.00	0.00
ATOM	2733	C	GLN	X	177	29.065	55.446	43.871	0.00	0.00
ATOM	2734	O	GLN	X	177	28.282	55.963	43.042	0.00	0.00
ATOM	2735	N	TRP	X	178	30.205	55.995	44.258	0.00	0.00
ATOM	2736	H	TRP	X	178	30.675	55.476	44.986	0.00	0.00
ATOM	2737	CA	TRP	X	178	30.747	57.222	43.698	0.00	0.00

ATOM	2738	HA	TRP	X	178	30.018	57.986	43.967	0.00	0.00
ATOM	2739	CB	TRP	X	178	32.080	57.505	44.414	0.00	0.00
ATOM	2740	HB2	TRP	X	178	32.024	57.505	45.503	0.00	0.00
ATOM	2741	HB3	TRP	X	178	32.854	56.765	44.211	0.00	0.00
ATOM	2742	CG	TRP	X	178	32.742	58.845	44.010	0.00	0.00
ATOM	2743	CD1	TRP	X	178	32.643	59.991	44.676	0.00	0.00
ATOM	2744	HD1	TRP	X	178	32.263	60.081	45.683	0.00	0.00
ATOM	2745	NE1	TRP	X	178	33.189	61.018	43.937	0.00	0.00
ATOM	2746	HE1	TRP	X	178	33.247	61.968	44.278	0.00	0.00
ATOM	2747	CE2	TRP	X	178	33.745	60.613	42.757	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	34.516	61.271	41.770	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	34.695	62.336	41.770	0.00	0.00
ATOM	2750	CH2	TRP	X	178	35.036	60.423	40.774	0.00	0.00
ATOM	2751	HH2	TRP	X	178	35.731	60.778	40.027	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	34.594	59.066	40.653	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	35.006	58.420	39.891	0.00	0.00
ATOM	2754	CE3	TRP	X	178	33.875	58.413	41.676	0.00	0.00
ATOM	2755	HE3	TRP	X	178	33.866	57.334	41.716	0.00	0.00
ATOM	2756	CD2	TRP	X	178	33.437	59.208	42.780	0.00	0.00
ATOM	2757	C	TRP	X	178	30.900	57.166	42.140	0.00	0.00
ATOM	2758	O	TRP	X	178	30.575	58.248	41.553	0.00	0.00
ATOM	2759	N	VAL	X	179	31.391	56.075	41.569	0.00	0.00
ATOM	2760	H	VAL	X	179	31.768	55.342	42.154	0.00	0.00
ATOM	2761	CA	VAL	X	179	31.424	55.939	40.112	0.00	0.00
ATOM	2762	HA	VAL	X	179	32.109	56.661	39.668	0.00	0.00
ATOM	2763	CB	VAL	X	179	32.135	54.601	39.798	0.00	0.00
ATOM	2764	HB	VAL	X	179	31.655	53.879	40.459	0.00	0.00
ATOM	2765	CG1	VAL	X	179	32.028	54.192	38.313	0.00	0.00
ATOM	2766	HG11	VAL	X	179	32.551	53.251	38.145	0.00	0.00
ATOM	2767	HG12	VAL	X	179	30.995	54.129	37.974	0.00	0.00
ATOM	2768	HG13	VAL	X	179	32.549	54.908	37.677	0.00	0.00
ATOM	2769	CG2	VAL	X	179	33.613	54.606	40.304	0.00	0.00
ATOM	2770	HG21	VAL	X	179	34.122	53.827	39.737	0.00	0.00
ATOM	2771	HG22	VAL	X	179	34.035	55.601	40.161	0.00	0.00
ATOM	2772	HG23	VAL	X	179	33.633	54.311	41.353	0.00	0.00
ATOM	2773	C	VAL	X	179	30.020	56.078	39.482	0.00	0.00
ATOM	2774	O	VAL	X	179	29.818	56.844	38.558	0.00	0.00
ATOM	2775	N	GLN	X	180	28.984	55.384	40.099	0.00	0.00
ATOM	2776	H	GLN	X	180	29.116	54.730	40.857	0.00	0.00
ATOM	2777	CA	GLN	X	180	27.612	55.492	39.648	0.00	0.00
ATOM	2778	HA	GLN	X	180	27.500	55.018	38.673	0.00	0.00
ATOM	2779	CB	GLN	X	180	26.688	54.666	40.618	0.00	0.00
ATOM	2780	HB2	GLN	X	180	26.967	54.771	41.666	0.00	0.00
ATOM	2781	HB3	GLN	X	180	25.627	54.861	40.461	0.00	0.00
ATOM	2782	CG	GLN	X	180	26.528	53.164	40.396	0.00	0.00
ATOM	2783	HG2	GLN	X	180	27.442	52.677	40.737	0.00	0.00
ATOM	2784	HG3	GLN	X	180	25.752	52.897	41.113	0.00	0.00
ATOM	2785	CD	GLN	X	180	26.111	52.794	38.922	0.00	0.00
ATOM	2786	OE1	GLN	X	180	24.935	52.900	38.465	0.00	0.00
ATOM	2787	NE2	GLN	X	180	26.910	52.232	38.136	0.00	0.00
ATOM	2788	HE21	GLN	X	180	26.592	52.214	37.177	0.00	0.00
ATOM	2789	HE22	GLN	X	180	27.913	52.309	38.226	0.00	0.00
ATOM	2790	C	GLN	X	180	27.130	56.998	39.605	0.00	0.00
ATOM	2791	O	GLN	X	180	26.334	57.406	38.748	0.00	0.00
ATOM	2792	N	GLU	X	181	27.640	57.815	40.564	0.00	0.00
ATOM	2793	H	GLU	X	181	28.030	57.341	41.366	0.00	0.00
ATOM	2794	CA	GLU	X	181	27.084	59.132	40.793	0.00	0.00
ATOM	2795	HA	GLU	X	181	26.039	59.206	40.491	0.00	0.00
ATOM	2796	CB	GLU	X	181	27.061	59.309	42.355	0.00	0.00
ATOM	2797	HB2	GLU	X	181	26.586	58.465	42.856	0.00	0.00
ATOM	2798	HB3	GLU	X	181	28.059	59.330	42.792	0.00	0.00
ATOM	2799	CG	GLU	X	181	26.274	60.456	42.887	0.00	0.00
ATOM	2800	HG2	GLU	X	181	26.519	61.413	42.426	0.00	0.00
ATOM	2801	HG3	GLU	X	181	25.207	60.278	42.758	0.00	0.00
ATOM	2802	CD	GLU	X	181	26.534	60.741	44.422	0.00	0.00
ATOM	2803	OE1	GLU	X	181	27.633	61.169	44.921	0.00	0.00
ATOM	2804	OE2	GLU	X	181	25.584	60.489	45.138	0.00	0.00
ATOM	2805	C	GLU	X	181	27.900	60.268	40.192	0.00	0.00
ATOM	2806	O	GLU	X	181	27.387	61.367	40.077	0.00	0.00
ATOM	2807	N	ASN	X	182	29.049	59.907	39.636	0.00	0.00

ATOM	2808	H	ASN	X	182	29.480	59.027	39.880	0.00	0.00
ATOM	2809	CA	ASN	X	182	30.044	60.951	39.376	0.00	0.00
ATOM	2810	HA	ASN	X	182	29.503	61.889	39.255	0.00	0.00
ATOM	2811	CB	ASN	X	182	31.035	61.180	40.595	0.00	0.00
ATOM	2812	HB2	ASN	X	182	31.597	60.270	40.803	0.00	0.00
ATOM	2813	HB3	ASN	X	182	31.810	61.918	40.390	0.00	0.00
ATOM	2814	CG	ASN	X	182	30.247	61.651	41.807	0.00	0.00
ATOM	2815	OD1	ASN	X	182	29.649	62.699	41.816	0.00	0.00
ATOM	2816	ND2	ASN	X	182	30.235	60.862	42.899	0.00	0.00
ATOM	2817	HD21	ASN	X	182	29.613	61.084	43.662	0.00	0.00
ATOM	2818	HD22	ASN	X	182	30.696	59.963	42.890	0.00	0.00
ATOM	2819	C	ASN	X	182	30.871	60.712	38.080	0.00	0.00
ATOM	2820	O	ASN	X	182	31.237	61.663	37.506	0.00	0.00
ATOM	2821	N	VAL	X	183	30.977	59.485	37.621	0.00	0.00
ATOM	2822	H	VAL	X	183	30.601	58.770	38.227	0.00	0.00
ATOM	2823	CA	VAL	X	183	31.870	59.034	36.542	0.00	0.00
ATOM	2824	HA	VAL	X	183	32.896	59.334	36.753	0.00	0.00
ATOM	2825	CB	VAL	X	183	32.112	57.496	36.446	0.00	0.00
ATOM	2826	HB	VAL	X	183	32.151	57.208	37.497	0.00	0.00
ATOM	2827	CG1	VAL	X	183	30.987	56.681	35.779	0.00	0.00
ATOM	2828	HG11	VAL	X	183	30.004	56.952	36.163	0.00	0.00
ATOM	2829	HG12	VAL	X	183	31.090	56.860	34.708	0.00	0.00
ATOM	2830	HG13	VAL	X	183	31.175	55.637	36.029	0.00	0.00
ATOM	2831	CG2	VAL	X	183	33.513	57.229	35.864	0.00	0.00
ATOM	2832	HG21	VAL	X	183	33.783	56.184	36.019	0.00	0.00
ATOM	2833	HG22	VAL	X	183	33.458	57.424	34.793	0.00	0.00
ATOM	2834	HG23	VAL	X	183	34.247	57.904	36.303	0.00	0.00
ATOM	2835	C	VAL	X	183	31.549	59.746	35.222	0.00	0.00
ATOM	2836	O	VAL	X	183	32.506	60.107	34.551	0.00	0.00
ATOM	2837	N	ALA	X	184	30.253	60.089	34.946	0.00	0.00
ATOM	2838	H	ALA	X	184	29.562	59.788	35.618	0.00	0.00
ATOM	2839	CA	ALA	X	184	29.815	60.918	33.730	0.00	0.00
ATOM	2840	HA	ALA	X	184	30.135	60.493	32.779	0.00	0.00
ATOM	2841	CB	ALA	X	184	28.319	60.929	33.790	0.00	0.00
ATOM	2842	HB1	ALA	X	184	27.867	59.941	33.875	0.00	0.00
ATOM	2843	HB2	ALA	X	184	28.047	61.443	34.711	0.00	0.00
ATOM	2844	HB3	ALA	X	184	27.980	61.393	32.863	0.00	0.00
ATOM	2845	C	ALA	X	184	30.357	62.419	33.790	0.00	0.00
ATOM	2846	O	ALA	X	184	30.535	63.005	32.770	0.00	0.00
ATOM	2847	N	ALA	X	185	30.772	62.981	34.945	0.00	0.00
ATOM	2848	H	ALA	X	185	30.651	62.396	35.759	0.00	0.00
ATOM	2849	CA	ALA	X	185	31.326	64.288	35.055	0.00	0.00
ATOM	2850	HA	ALA	X	185	30.603	65.045	34.750	0.00	0.00
ATOM	2851	CB	ALA	X	185	31.849	64.523	36.518	0.00	0.00
ATOM	2852	HB1	ALA	X	185	32.348	65.487	36.620	0.00	0.00
ATOM	2853	HB2	ALA	X	185	31.005	64.528	37.207	0.00	0.00
ATOM	2854	HB3	ALA	X	185	32.612	63.789	36.778	0.00	0.00
ATOM	2855	C	ALA	X	185	32.649	64.291	34.207	0.00	0.00
ATOM	2856	O	ALA	X	185	32.860	65.237	33.469	0.00	0.00
ATOM	2857	N	PHE	X	186	33.343	63.141	34.139	0.00	0.00
ATOM	2858	H	PHE	X	186	33.006	62.385	34.718	0.00	0.00
ATOM	2859	CA	PHE	X	186	34.618	62.859	33.504	0.00	0.00
ATOM	2860	HA	PHE	X	186	35.093	63.839	33.456	0.00	0.00
ATOM	2861	CB	PHE	X	186	35.469	61.899	34.361	0.00	0.00
ATOM	2862	HB2	PHE	X	186	34.940	60.952	34.465	0.00	0.00
ATOM	2863	HB3	PHE	X	186	36.387	61.742	33.795	0.00	0.00
ATOM	2864	CG	PHE	X	186	35.807	62.448	35.700	0.00	0.00
ATOM	2865	CD1	PHE	X	186	34.897	62.128	36.738	0.00	0.00
ATOM	2866	HD1	PHE	X	186	34.048	61.497	36.523	0.00	0.00
ATOM	2867	CE1	PHE	X	186	35.194	62.613	38.048	0.00	0.00
ATOM	2868	HE1	PHE	X	186	34.501	62.244	38.789	0.00	0.00
ATOM	2869	CZ	PHE	X	186	36.311	63.457	38.380	0.00	0.00
ATOM	2870	HZ	PHE	X	186	36.452	63.863	39.371	0.00	0.00
ATOM	2871	CE2	PHE	X	186	37.133	63.812	37.314	0.00	0.00
ATOM	2872	HE2	PHE	X	186	38.045	64.359	37.502	0.00	0.00
ATOM	2873	CD2	PHE	X	186	36.877	63.350	35.995	0.00	0.00
ATOM	2874	HD2	PHE	X	186	37.492	63.611	35.146	0.00	0.00
ATOM	2875	C	PHE	X	186	34.445	62.320	32.021	0.00	0.00
ATOM	2876	O	PHE	X	186	35.479	62.082	31.396	0.00	0.00
ATOM	2877	N	GLY	X	187	33.266	62.269	31.479	0.00	0.00

ATOM	2878	H	GLY	X	187	32.481	62.752	31.893	0.00	0.00
ATOM	2879	CA	GLY	X	187	33.057	61.589	30.221	0.00	0.00
ATOM	2880	HA2	GLY	X	187	32.227	62.082	29.819	0.00	0.00
ATOM	2881	HA3	GLY	X	187	33.908	61.629	29.583	0.00	0.00
ATOM	2882	C	GLY	X	187	32.745	60.168	30.334	0.00	0.00
ATOM	2883	O	GLY	X	187	32.596	59.538	29.270	0.00	0.00
ATOM	2884	N	GLY	X	188	32.631	59.616	31.540	0.00	0.00
ATOM	2885	H	GLY	X	188	32.582	60.250	32.325	0.00	0.00
ATOM	2886	CA	GLY	X	188	32.435	58.144	31.671	0.00	0.00
ATOM	2887	HA2	GLY	X	188	33.041	57.633	30.921	0.00	0.00
ATOM	2888	HA3	GLY	X	188	32.740	57.842	32.662	0.00	0.00
ATOM	2889	C	GLY	X	188	31.015	57.698	31.534	0.00	0.00
ATOM	2890	O	GLY	X	188	30.176	58.579	31.196	0.00	0.00
ATOM	2891	N	ASP	X	189	30.645	56.459	31.742	0.00	0.00
ATOM	2892	H	ASP	X	189	31.338	55.726	31.792	0.00	0.00
ATOM	2893	CA	ASP	X	189	29.278	55.888	31.692	0.00	0.00
ATOM	2894	HA	ASP	X	189	28.559	56.706	31.716	0.00	0.00
ATOM	2895	CB	ASP	X	189	29.153	55.112	30.436	0.00	0.00
ATOM	2896	HB2	ASP	X	189	29.604	55.705	29.641	0.00	0.00
ATOM	2897	HB3	ASP	X	189	29.762	54.209	30.422	0.00	0.00
ATOM	2898	CG	ASP	X	189	27.701	54.702	30.003	0.00	0.00
ATOM	2899	OD1	ASP	X	189	27.393	54.254	28.894	0.00	0.00
ATOM	2900	OD2	ASP	X	189	26.888	54.723	30.954	0.00	0.00
ATOM	2901	C	ASP	X	189	28.935	55.022	32.907	0.00	0.00
ATOM	2902	O	ASP	X	189	29.483	53.961	33.075	0.00	0.00
ATOM	2903	N	PRO	X	190	28.093	55.401	33.860	0.00	0.00
ATOM	2904	CD	PRO	X	190	27.337	56.632	33.869	0.00	0.00
ATOM	2905	HD2	PRO	X	190	26.786	56.843	32.952	0.00	0.00
ATOM	2906	HD3	PRO	X	190	28.010	57.467	34.066	0.00	0.00
ATOM	2907	CG	PRO	X	190	26.340	56.593	34.991	0.00	0.00
ATOM	2908	HG2	PRO	X	190	25.378	56.183	34.682	0.00	0.00
ATOM	2909	HG3	PRO	X	190	26.171	57.562	35.462	0.00	0.00
ATOM	2910	CB	PRO	X	190	27.059	55.613	35.915	0.00	0.00
ATOM	2911	HB2	PRO	X	190	26.385	55.210	36.671	0.00	0.00
ATOM	2912	HB3	PRO	X	190	27.774	56.264	36.419	0.00	0.00
ATOM	2913	CA	PRO	X	190	27.721	54.670	35.016	0.00	0.00
ATOM	2914	HA	PRO	X	190	28.552	54.178	35.523	0.00	0.00
ATOM	2915	C	PRO	X	190	26.638	53.577	34.714	0.00	0.00
ATOM	2916	O	PRO	X	190	26.322	52.764	35.568	0.00	0.00
ATOM	2917	N	THR	X	191	26.095	53.507	33.506	0.00	0.00
ATOM	2918	H	THR	X	191	26.397	54.148	32.785	0.00	0.00
ATOM	2919	CA	THR	X	191	25.346	52.402	32.924	0.00	0.00
ATOM	2920	HA	THR	X	191	24.794	51.918	33.729	0.00	0.00
ATOM	2921	CB	THR	X	191	24.211	52.785	31.941	0.00	0.00
ATOM	2922	HB	THR	X	191	23.566	51.917	31.809	0.00	0.00
ATOM	2923	CG2	THR	X	191	23.353	53.930	32.488	0.00	0.00
ATOM	2924	HG21	THR	X	191	22.375	54.012	32.015	0.00	0.00
ATOM	2925	HG22	THR	X	191	23.276	53.877	33.574	0.00	0.00
ATOM	2926	HG23	THR	X	191	23.855	54.878	32.294	0.00	0.00
ATOM	2927	OG1	THR	X	191	24.629	53.290	30.708	0.00	0.00
ATOM	2928	HG1	THR	X	191	25.400	53.840	30.862	0.00	0.00
ATOM	2929	C	THR	X	191	26.197	51.388	32.183	0.00	0.00
ATOM	2930	O	THR	X	191	25.621	50.431	31.629	0.00	0.00
ATOM	2931	N	SER	X	192	27.522	51.558	31.995	0.00	0.00
ATOM	2932	H	SER	X	192	27.843	52.459	32.319	0.00	0.00
ATOM	2933	CA	SER	X	192	28.335	50.688	31.095	0.00	0.00
ATOM	2934	HA	SER	X	192	27.895	49.701	30.954	0.00	0.00
ATOM	2935	CB	SER	X	192	28.522	51.298	29.676	0.00	0.00
ATOM	2936	HB2	SER	X	192	29.121	52.205	29.759	0.00	0.00
ATOM	2937	HB3	SER	X	192	29.101	50.587	29.086	0.00	0.00
ATOM	2938	OG	SER	X	192	27.362	51.641	28.998	0.00	0.00
ATOM	2939	HG	SER	X	192	27.238	52.592	29.027	0.00	0.00
ATOM	2940	C	SER	X	192	29.683	50.379	31.701	0.00	0.00
ATOM	2941	O	SER	X	192	30.700	50.590	31.127	0.00	0.00
ATOM	2942	N	VAL	X	193	29.654	49.897	33.021	0.00	0.00
ATOM	2943	H	VAL	X	193	28.735	49.955	33.435	0.00	0.00
ATOM	2944	CA	VAL	X	193	30.757	49.747	33.969	0.00	0.00
ATOM	2945	HA	VAL	X	193	31.627	50.319	33.646	0.00	0.00
ATOM	2946	CB	VAL	X	193	30.424	50.280	35.486	0.00	0.00
ATOM	2947	HB	VAL	X	193	29.568	49.680	35.793	0.00	0.00

ATOM	2948	CG1	VAL	X	193	31.548	50.081	36.494	0.00	0.00
ATOM	2949	HG11	VAL	X	193	31.407	50.636	37.421	0.00	0.00
ATOM	2950	HG12	VAL	X	193	31.783	49.048	36.749	0.00	0.00
ATOM	2951	HG13	VAL	X	193	32.488	50.397	36.041	0.00	0.00
ATOM	2952	CG2	VAL	X	193	29.888	51.780	35.474	0.00	0.00
ATOM	2953	HG21	VAL	X	193	29.224	51.862	34.613	0.00	0.00
ATOM	2954	HG22	VAL	X	193	29.395	52.071	36.402	0.00	0.00
ATOM	2955	HG23	VAL	X	193	30.731	52.421	35.220	0.00	0.00
ATOM	2956	C	VAL	X	193	31.110	48.236	34.065	0.00	0.00
ATOM	2957	O	VAL	X	193	30.262	47.381	34.180	0.00	0.00
ATOM	2958	N	THR	X	194	32.421	47.884	34.093	0.00	0.00
ATOM	2959	H	THR	X	194	33.087	48.644	34.091	0.00	0.00
ATOM	2960	CA	THR	X	194	33.043	46.561	34.151	0.00	0.00
ATOM	2961	HA	THR	X	194	32.316	45.798	34.430	0.00	0.00
ATOM	2962	CB	THR	X	194	33.770	46.217	32.859	0.00	0.00
ATOM	2963	HB	THR	X	194	34.261	47.103	32.454	0.00	0.00
ATOM	2964	CG2	THR	X	194	34.783	45.082	32.912	0.00	0.00
ATOM	2965	HG21	THR	X	194	35.652	45.267	33.544	0.00	0.00
ATOM	2966	HG22	THR	X	194	34.384	44.212	33.433	0.00	0.00
ATOM	2967	HG23	THR	X	194	35.057	44.724	31.920	0.00	0.00
ATOM	2968	OG1	THR	X	194	32.907	45.680	31.915	0.00	0.00
ATOM	2969	HG1	THR	X	194	32.525	46.396	31.401	0.00	0.00
ATOM	2970	C	THR	X	194	34.111	46.697	35.309	0.00	0.00
ATOM	2971	O	THR	X	194	34.900	47.670	35.338	0.00	0.00
ATOM	2972	N	LEU	X	195	34.098	45.644	36.132	0.00	0.00
ATOM	2973	H	LEU	X	195	33.337	45.012	35.929	0.00	0.00
ATOM	2974	CA	LEU	X	195	35.041	45.318	37.164	0.00	0.00
ATOM	2975	HA	LEU	X	195	35.400	46.226	37.649	0.00	0.00
ATOM	2976	CB	LEU	X	195	34.390	44.497	38.287	0.00	0.00
ATOM	2977	HB2	LEU	X	195	33.873	43.603	37.938	0.00	0.00
ATOM	2978	HB3	LEU	X	195	35.203	44.125	38.909	0.00	0.00
ATOM	2979	CG	LEU	X	195	33.437	45.368	39.156	0.00	0.00
ATOM	2980	HG	LEU	X	195	32.629	45.697	38.502	0.00	0.00
ATOM	2981	CD1	LEU	X	195	32.807	44.522	40.281	0.00	0.00
ATOM	2982	HD11	LEU	X	195	32.000	45.124	40.700	0.00	0.00
ATOM	2983	HD12	LEU	X	195	32.470	43.531	39.976	0.00	0.00
ATOM	2984	HD13	LEU	X	195	33.520	44.332	41.083	0.00	0.00
ATOM	2985	CD2	LEU	X	195	34.061	46.519	39.856	0.00	0.00
ATOM	2986	HD21	LEU	X	195	34.298	47.336	39.175	0.00	0.00
ATOM	2987	HD22	LEU	X	195	33.494	46.839	40.730	0.00	0.00
ATOM	2988	HD23	LEU	X	195	35.024	46.119	40.175	0.00	0.00
ATOM	2989	C	LEU	X	195	36.211	44.449	36.572	0.00	0.00
ATOM	2990	O	LEU	X	195	35.977	43.452	35.890	0.00	0.00
ATOM	2991	N	PHE	X	196	37.407	44.787	36.901	0.00	0.00
ATOM	2992	H	PHE	X	196	37.505	45.706	37.309	0.00	0.00
ATOM	2993	CA	PHE	X	196	38.541	43.873	36.619	0.00	0.00
ATOM	2994	HA	PHE	X	196	38.272	42.822	36.516	0.00	0.00
ATOM	2995	CB	PHE	X	196	39.225	44.102	35.207	0.00	0.00
ATOM	2996	HB2	PHE	X	196	39.622	43.158	34.832	0.00	0.00
ATOM	2997	HB3	PHE	X	196	38.302	44.180	34.632	0.00	0.00
ATOM	2998	CG	PHE	X	196	40.166	45.315	34.977	0.00	0.00
ATOM	2999	CD1	PHE	X	196	39.790	46.604	35.356	0.00	0.00
ATOM	3000	HD1	PHE	X	196	38.776	46.732	35.704	0.00	0.00
ATOM	3001	CE1	PHE	X	196	40.678	47.637	35.202	0.00	0.00
ATOM	3002	HE1	PHE	X	196	40.309	48.627	35.424	0.00	0.00
ATOM	3003	CZ	PHE	X	196	41.974	47.459	34.657	0.00	0.00
ATOM	3004	HZ	PHE	X	196	42.639	48.303	34.556	0.00	0.00
ATOM	3005	CE2	PHE	X	196	42.381	46.175	34.239	0.00	0.00
ATOM	3006	HE2	PHE	X	196	43.361	46.031	33.809	0.00	0.00
ATOM	3007	CD2	PHE	X	196	41.504	45.074	34.402	0.00	0.00
ATOM	3008	HD2	PHE	X	196	41.817	44.076	34.135	0.00	0.00
ATOM	3009	C	PHE	X	196	39.589	43.895	37.764	0.00	0.00
ATOM	3010	O	PHE	X	196	39.474	44.727	38.619	0.00	0.00
ATOM	3011	N	GLY	X	197	40.471	42.921	37.861	0.00	0.00
ATOM	3012	H	GLY	X	197	40.392	42.222	37.136	0.00	0.00
ATOM	3013	CA	GLY	X	197	41.452	42.812	38.919	0.00	0.00
ATOM	3014	HA2	GLY	X	197	42.058	43.607	38.742	0.00	0.00
ATOM	3015	HA3	GLY	X	197	40.982	42.965	39.915	0.00	0.00
ATOM	3016	C	GLY	X	197	42.230	41.481	38.877	0.00	0.00
ATOM	3017	O	GLY	X	197	41.856	40.498	38.277	0.00	0.00

ATOM	3018	N	GLU	X	198	43.245	41.333	39.744	0.00	0.00
ATOM	3019	H	GLU	X	198	43.233	42.120	40.378	0.00	0.00
ATOM	3020	CA	GLU	X	198	44.194	40.211	39.858	0.00	0.00
ATOM	3021	HA	GLU	X	198	43.919	39.376	39.214	0.00	0.00
ATOM	3022	CB	GLU	X	198	45.646	40.461	39.555	0.00	0.00
ATOM	3023	HB2	GLU	X	198	46.158	39.516	39.739	0.00	0.00
ATOM	3024	HB3	GLU	X	198	45.687	40.813	38.524	0.00	0.00
ATOM	3025	CG	GLU	X	198	46.371	41.563	40.371	0.00	0.00
ATOM	3026	HG2	GLU	X	198	45.919	42.549	40.264	0.00	0.00
ATOM	3027	HG3	GLU	X	198	46.261	41.247	41.408	0.00	0.00
ATOM	3028	CD	GLU	X	198	47.860	41.522	39.832	0.00	0.00
ATOM	3029	OE1	GLU	X	198	48.429	42.555	39.425	0.00	0.00
ATOM	3030	OE2	GLU	X	198	48.563	40.493	40.001	0.00	0.00
ATOM	3031	C	GLU	X	198	43.969	39.571	41.239	0.00	0.00
ATOM	3032	O	GLU	X	198	43.903	40.317	42.216	0.00	0.00
ATOM	3033	N	XA1	X	199	43.890	38.218	41.420	0.00	0.00
ATOM	3034	CA	XA1	X	199	44.397	37.612	42.683	0.00	0.00
ATOM	3035	C	XA1	X	199	43.415	37.724	43.883	0.00	0.00
ATOM	3036	O	XA1	X	199	42.280	37.340	43.750	0.00	0.00
ATOM	3037	CB	XA1	X	199	45.789	38.236	43.100	0.00	0.00
ATOM	3038	OG	XA1	X	199	46.529	37.442	44.086	0.00	0.00
ATOM	3039	P1	XA1	X	199	47.526	38.162	45.106	0.00	0.00
ATOM	3040	O1	XA1	X	199	46.699	39.174	45.798	0.00	0.00
ATOM	3041	O2	XA1	X	199	48.826	38.595	44.527	0.00	0.00
ATOM	3042	C1	XA1	X	199	47.879	36.921	46.292	0.00	0.00
ATOM	3043	H	XA1	X	199	43.854	37.684	40.563	0.00	0.00
ATOM	3044	HA	XA1	X	199	44.571	36.546	42.537	0.00	0.00
ATOM	3045	HB2	XA1	X	199	46.430	38.238	42.215	0.00	0.00
ATOM	3046	HB3	XA1	X	199	45.712	39.285	43.398	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.888	36.507	46.225	0.00	0.00
ATOM	3048	H12	XA1	X	199	47.758	37.325	47.299	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.196	36.091	46.099	0.00	0.00
ATOM	3050	N	ALA	X	200	43.802	38.276	45.048	0.00	0.00
ATOM	3051	H	ALA	X	200	44.772	38.494	45.229	0.00	0.00
ATOM	3052	CA	ALA	X	200	42.921	38.727	46.078	0.00	0.00
ATOM	3053	HA	ALA	X	200	42.471	37.837	46.519	0.00	0.00
ATOM	3054	CB	ALA	X	200	43.837	39.288	47.221	0.00	0.00
ATOM	3055	HB1	ALA	X	200	44.735	38.698	47.401	0.00	0.00
ATOM	3056	HB2	ALA	X	200	44.290	40.249	46.979	0.00	0.00
ATOM	3057	HB3	ALA	X	200	43.328	39.383	48.181	0.00	0.00
ATOM	3058	C	ALA	X	200	41.854	39.727	45.592	0.00	0.00
ATOM	3059	O	ALA	X	200	40.715	39.811	46.046	0.00	0.00
ATOM	3060	N	GLY	X	201	42.243	40.614	44.688	0.00	0.00
ATOM	3061	H	GLY	X	201	43.237	40.651	44.509	0.00	0.00
ATOM	3062	CA	GLY	X	201	41.408	41.656	44.078	0.00	0.00
ATOM	3063	HA2	GLY	X	201	40.731	42.098	44.891	0.00	0.00
ATOM	3064	HA3	GLY	X	201	41.982	42.399	43.645	0.00	0.00
ATOM	3065	C	GLY	X	201	40.491	41.102	42.988	0.00	0.00
ATOM	3066	O	GLY	X	201	39.341	41.479	42.989	0.00	0.00
ATOM	3067	N	ALA	X	202	40.910	40.048	42.239	0.00	0.00
ATOM	3068	H	ALA	X	202	41.858	39.726	42.374	0.00	0.00
ATOM	3069	CA	ALA	X	202	39.998	39.288	41.380	0.00	0.00
ATOM	3070	HA	ALA	X	202	39.427	39.903	40.684	0.00	0.00
ATOM	3071	CB	ALA	X	202	40.816	38.156	40.631	0.00	0.00
ATOM	3072	HB1	ALA	X	202	40.163	37.392	40.211	0.00	0.00
ATOM	3073	HB2	ALA	X	202	41.504	38.548	39.881	0.00	0.00
ATOM	3074	HB3	ALA	X	202	41.315	37.584	41.413	0.00	0.00
ATOM	3075	C	ALA	X	202	38.999	38.608	42.309	0.00	0.00
ATOM	3076	O	ALA	X	202	37.780	38.826	42.127	0.00	0.00
ATOM	3077	N	ALA	X	203	39.470	37.925	43.414	0.00	0.00
ATOM	3078	H	ALA	X	203	40.450	37.684	43.415	0.00	0.00
ATOM	3079	CA	ALA	X	203	38.498	37.299	44.319	0.00	0.00
ATOM	3080	HA	ALA	X	203	37.878	36.626	43.728	0.00	0.00
ATOM	3081	CB	ALA	X	203	39.405	36.596	45.325	0.00	0.00
ATOM	3082	HB1	ALA	X	203	39.897	35.749	44.848	0.00	0.00
ATOM	3083	HB2	ALA	X	203	40.230	37.253	45.601	0.00	0.00
ATOM	3084	HB3	ALA	X	203	38.902	36.256	46.230	0.00	0.00
ATOM	3085	C	ALA	X	203	37.569	38.274	45.079	0.00	0.00
ATOM	3086	O	ALA	X	203	36.407	37.986	45.469	0.00	0.00
ATOM	3087	N	SER	X	204	38.060	39.511	45.315	0.00	0.00

ATOM	3088	H	SER	X	204	39.017	39.536	44.992	0.00	0.00
ATOM	3089	CA	SER	X	204	37.227	40.567	45.716	0.00	0.00
ATOM	3090	HA	SER	X	204	36.742	40.278	46.648	0.00	0.00
ATOM	3091	CB	SER	X	204	38.020	41.807	46.029	0.00	0.00
ATOM	3092	HB2	SER	X	204	38.585	42.239	45.202	0.00	0.00
ATOM	3093	HB3	SER	X	204	37.356	42.622	46.318	0.00	0.00
ATOM	3094	OG	SER	X	204	38.941	41.485	47.055	0.00	0.00
ATOM	3095	HG	SER	X	204	39.497	40.795	46.686	0.00	0.00
ATOM	3096	C	SER	X	204	36.145	41.013	44.669	0.00	0.00
ATOM	3097	O	SER	X	204	35.076	41.284	45.162	0.00	0.00
ATOM	3098	N	VAL	X	205	36.339	40.958	43.343	0.00	0.00
ATOM	3099	H	VAL	X	205	37.262	40.623	43.104	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.318	41.218	42.284	0.00	0.00
ATOM	3101	HA	VAL	X	205	34.894	42.196	42.510	0.00	0.00
ATOM	3102	CB	VAL	X	205	35.901	41.252	40.840	0.00	0.00
ATOM	3103	HB	VAL	X	205	36.532	40.384	40.651	0.00	0.00
ATOM	3104	CG1	VAL	X	205	34.831	41.270	39.788	0.00	0.00
ATOM	3105	HG11	VAL	X	205	34.197	40.384	39.788	0.00	0.00
ATOM	3106	HG12	VAL	X	205	34.053	42.030	39.863	0.00	0.00
ATOM	3107	HG13	VAL	X	205	35.388	41.458	38.870	0.00	0.00
ATOM	3108	CG2	VAL	X	205	36.816	42.462	40.611	0.00	0.00
ATOM	3109	HG21	VAL	X	205	37.547	42.536	41.417	0.00	0.00
ATOM	3110	HG22	VAL	X	205	37.365	42.481	39.669	0.00	0.00
ATOM	3111	HG23	VAL	X	205	36.212	43.368	40.641	0.00	0.00
ATOM	3112	C	VAL	X	205	34.221	40.131	42.382	0.00	0.00
ATOM	3113	O	VAL	X	205	33.038	40.469	42.287	0.00	0.00
ATOM	3114	N	GLY	X	206	34.639	38.888	42.860	0.00	0.00
ATOM	3115	H	GLY	X	206	35.619	38.654	42.793	0.00	0.00
ATOM	3116	CA	GLY	X	206	33.707	37.822	43.203	0.00	0.00
ATOM	3117	HA2	GLY	X	206	32.880	37.826	42.456	0.00	0.00
ATOM	3118	HA3	GLY	X	206	34.321	36.900	43.220	0.00	0.00
ATOM	3119	C	GLY	X	206	33.002	38.091	44.531	0.00	0.00
ATOM	3120	O	GLY	X	206	31.846	37.729	44.624	0.00	0.00
ATOM	3121	N	MET	X	207	33.581	38.753	45.491	0.00	0.00
ATOM	3122	H	MET	X	207	34.545	39.036	45.383	0.00	0.00
ATOM	3123	CA	MET	X	207	32.820	39.216	46.634	0.00	0.00
ATOM	3124	HA	MET	X	207	32.127	38.430	46.934	0.00	0.00
ATOM	3125	CB	MET	X	207	33.670	39.659	47.784	0.00	0.00
ATOM	3126	HB2	MET	X	207	33.969	40.691	47.597	0.00	0.00
ATOM	3127	HB3	MET	X	207	33.060	39.675	48.687	0.00	0.00
ATOM	3128	CG	MET	X	207	34.827	38.680	48.182	0.00	0.00
ATOM	3129	HG2	MET	X	207	35.519	38.725	47.341	0.00	0.00
ATOM	3130	HG3	MET	X	207	35.319	38.955	49.115	0.00	0.00
ATOM	3131	SD	MET	X	207	34.298	36.884	48.266	0.00	0.00
ATOM	3132	CE	MET	X	207	35.874	35.974	48.283	0.00	0.00
ATOM	3133	HE1	MET	X	207	36.605	36.544	47.711	0.00	0.00
ATOM	3134	HE2	MET	X	207	36.269	35.893	49.296	0.00	0.00
ATOM	3135	HE3	MET	X	207	35.785	34.968	47.873	0.00	0.00
ATOM	3136	C	MET	X	207	31.807	40.369	46.137	0.00	0.00
ATOM	3137	O	MET	X	207	30.661	40.568	46.552	0.00	0.00
ATOM	3138	N	HIE	X	208	32.243	41.182	45.099	0.00	0.00
ATOM	3139	H	HIE	X	208	33.231	41.184	44.887	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.280	42.141	44.514	0.00	0.00
ATOM	3141	HA	HIE	X	208	30.725	42.651	45.302	0.00	0.00
ATOM	3142	CB	HIE	X	208	32.049	43.298	43.846	0.00	0.00
ATOM	3143	HB2	HIE	X	208	32.651	42.962	43.002	0.00	0.00
ATOM	3144	HB3	HIE	X	208	31.300	43.924	43.362	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.698	44.197	44.796	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.032	45.067	45.636	0.00	0.00
ATOM	3147	CE1	HIE	X	208	32.971	45.543	46.457	0.00	0.00
ATOM	3148	HE1	HIE	X	208	32.753	46.345	47.146	0.00	0.00
ATOM	3149	NE2	HIE	X	208	34.200	45.177	46.061	0.00	0.00
ATOM	3150	HE2	HIE	X	208	35.087	45.292	46.529	0.00	0.00
ATOM	3151	CD2	HIE	X	208	34.050	44.268	45.070	0.00	0.00
ATOM	3152	HD2	HIE	X	208	34.806	43.705	44.543	0.00	0.00
ATOM	3153	C	HIE	X	208	30.207	41.554	43.667	0.00	0.00
ATOM	3154	O	HIE	X	208	29.177	42.191	43.618	0.00	0.00
ATOM	3155	N	LEU	X	209	30.363	40.366	43.039	0.00	0.00
ATOM	3156	H	LEU	X	209	31.317	40.043	43.109	0.00	0.00
ATOM	3157	CA	LEU	X	209	29.222	39.614	42.456	0.00	0.00

ATOM	3158	HA	LEU	X	209	28.476	40.259	41.993	0.00	0.00
ATOM	3159	CB	LEU	X	209	29.723	38.429	41.545	0.00	0.00
ATOM	3160	HB2	LEU	X	209	30.421	37.823	42.122	0.00	0.00
ATOM	3161	HB3	LEU	X	209	28.878	37.783	41.310	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.470	38.841	40.174	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.267	39.532	40.448	0.00	0.00
ATOM	3164	CD1	LEU	X	209	31.015	37.509	39.686	0.00	0.00
ATOM	3165	HD11	LEU	X	209	30.259	36.725	39.657	0.00	0.00
ATOM	3166	HD12	LEU	X	209	31.568	37.607	38.751	0.00	0.00
ATOM	3167	HD13	LEU	X	209	31.723	37.132	40.424	0.00	0.00
ATOM	3168	CD2	LEU	X	209	29.410	39.407	39.263	0.00	0.00
ATOM	3169	HD21	LEU	X	209	28.610	38.692	39.071	0.00	0.00
ATOM	3170	HD22	LEU	X	209	29.030	40.348	39.662	0.00	0.00
ATOM	3171	HD23	LEU	X	209	29.812	39.598	38.269	0.00	0.00
ATOM	3172	C	LEU	X	209	28.425	38.897	43.616	0.00	0.00
ATOM	3173	O	LEU	X	209	27.243	38.769	43.428	0.00	0.00
ATOM	3174	N	LEU	X	210	29.039	38.506	44.777	0.00	0.00
ATOM	3175	H	LEU	X	210	30.045	38.591	44.746	0.00	0.00
ATOM	3176	CA	LEU	X	210	28.431	37.590	45.753	0.00	0.00
ATOM	3177	HA	LEU	X	210	27.868	36.836	45.203	0.00	0.00
ATOM	3178	CB	LEU	X	210	29.488	36.755	46.420	0.00	0.00
ATOM	3179	HB2	LEU	X	210	30.405	37.287	46.673	0.00	0.00
ATOM	3180	HB3	LEU	X	210	29.067	36.258	47.294	0.00	0.00
ATOM	3181	CG	LEU	X	210	29.877	35.562	45.507	0.00	0.00
ATOM	3182	HG	LEU	X	210	30.032	35.905	44.485	0.00	0.00
ATOM	3183	CD1	LEU	X	210	31.153	34.917	45.990	0.00	0.00
ATOM	3184	HD11	LEU	X	210	30.991	34.538	46.999	0.00	0.00
ATOM	3185	HD12	LEU	X	210	31.564	34.101	45.397	0.00	0.00
ATOM	3186	HD13	LEU	X	210	31.966	35.643	45.966	0.00	0.00
ATOM	3187	CD2	LEU	X	210	28.847	34.435	45.414	0.00	0.00
ATOM	3188	HD21	LEU	X	210	28.009	34.781	44.810	0.00	0.00
ATOM	3189	HD22	LEU	X	210	29.303	33.548	44.975	0.00	0.00
ATOM	3190	HD23	LEU	X	210	28.406	34.233	46.391	0.00	0.00
ATOM	3191	C	LEU	X	210	27.527	38.286	46.712	0.00	0.00
ATOM	3192	O	LEU	X	210	26.369	37.908	46.968	0.00	0.00
ATOM	3193	N	SER	X	211	28.028	39.356	47.327	0.00	0.00
ATOM	3194	H	SER	X	211	28.893	39.703	46.937	0.00	0.00
ATOM	3195	CA	SER	X	211	27.386	40.173	48.347	0.00	0.00
ATOM	3196	HA	SER	X	211	26.960	39.547	49.131	0.00	0.00
ATOM	3197	CB	SER	X	211	28.491	40.862	49.205	0.00	0.00
ATOM	3198	HB2	SER	X	211	29.306	40.157	49.366	0.00	0.00
ATOM	3199	HB3	SER	X	211	28.913	41.646	48.576	0.00	0.00
ATOM	3200	OG	SER	X	211	27.994	41.421	50.439	0.00	0.00
ATOM	3201	HG	SER	X	211	28.314	40.825	51.120	0.00	0.00
ATOM	3202	C	SER	X	211	26.405	41.205	47.714	0.00	0.00
ATOM	3203	O	SER	X	211	26.935	42.146	47.076	0.00	0.00
ATOM	3204	N	PRO	X	212	25.071	41.077	47.922	0.00	0.00
ATOM	3205	CD	PRO	X	212	24.502	40.074	48.797	0.00	0.00
ATOM	3206	HD2	PRO	X	212	24.574	40.384	49.840	0.00	0.00
ATOM	3207	HD3	PRO	X	212	25.000	39.107	48.727	0.00	0.00
ATOM	3208	CG	PRO	X	212	23.023	40.019	48.265	0.00	0.00
ATOM	3209	HG2	PRO	X	212	22.321	39.600	48.984	0.00	0.00
ATOM	3210	HG3	PRO	X	212	22.981	39.414	47.359	0.00	0.00
ATOM	3211	CB	PRO	X	212	22.695	41.538	47.947	0.00	0.00
ATOM	3212	HB2	PRO	X	212	22.361	42.111	48.812	0.00	0.00
ATOM	3213	HB3	PRO	X	212	21.923	41.599	47.180	0.00	0.00
ATOM	3214	CA	PRO	X	212	24.042	41.906	47.294	0.00	0.00
ATOM	3215	HA	PRO	X	212	24.106	41.437	46.312	0.00	0.00
ATOM	3216	C	PRO	X	212	24.149	43.425	47.093	0.00	0.00
ATOM	3217	O	PRO	X	212	23.947	43.777	45.900	0.00	0.00
ATOM	3218	N	PRO	X	213	24.423	44.256	48.088	0.00	0.00
ATOM	3219	CD	PRO	X	213	24.611	43.800	49.470	0.00	0.00
ATOM	3220	HD2	PRO	X	213	25.634	43.472	49.659	0.00	0.00
ATOM	3221	HD3	PRO	X	213	23.987	42.942	49.720	0.00	0.00
ATOM	3222	CG	PRO	X	213	24.258	45.036	50.334	0.00	0.00
ATOM	3223	HG2	PRO	X	213	24.871	45.112	51.232	0.00	0.00
ATOM	3224	HG3	PRO	X	213	23.197	45.121	50.566	0.00	0.00
ATOM	3225	CB	PRO	X	213	24.579	46.239	49.464	0.00	0.00
ATOM	3226	HB2	PRO	X	213	25.574	46.605	49.715	0.00	0.00
ATOM	3227	HB3	PRO	X	213	23.831	46.977	49.753	0.00	0.00

ATOM	3228	CA	PRO	X	213	24.538	45.705	47.999	0.00	0.00
ATOM	3229	HA	PRO	X	213	23.615	46.024	47.514	0.00	0.00
ATOM	3230	C	PRO	X	213	25.676	46.170	47.170	0.00	0.00
ATOM	3231	O	PRO	X	213	25.779	47.359	46.999	0.00	0.00
ATOM	3232	N	SER	X	214	26.435	45.358	46.544	0.00	0.00
ATOM	3233	H	SER	X	214	26.343	44.357	46.642	0.00	0.00
ATOM	3234	CA	SER	X	214	27.520	45.717	45.543	0.00	0.00
ATOM	3235	HA	SER	X	214	27.805	46.759	45.689	0.00	0.00
ATOM	3236	CB	SER	X	214	28.775	44.824	45.748	0.00	0.00
ATOM	3237	HB2	SER	X	214	28.517	43.771	45.632	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.337	45.073	44.848	0.00	0.00
ATOM	3239	OG	SER	X	214	29.515	45.162	46.853	0.00	0.00
ATOM	3240	HG	SER	X	214	30.387	45.083	46.460	0.00	0.00
ATOM	3241	C	SER	X	214	27.033	45.546	44.111	0.00	0.00
ATOM	3242	O	SER	X	214	27.695	46.151	43.223	0.00	0.00
ATOM	3243	N	ARG	X	215	25.947	44.826	43.802	0.00	0.00
ATOM	3244	H	ARG	X	215	25.435	44.484	44.602	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.645	44.268	42.472	0.00	0.00
ATOM	3246	HA	ARG	X	215	26.596	43.865	42.123	0.00	0.00
ATOM	3247	CB	ARG	X	215	24.702	43.092	42.567	0.00	0.00
ATOM	3248	HB2	ARG	X	215	23.774	43.388	43.056	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.495	42.891	41.516	0.00	0.00
ATOM	3250	CG	ARG	X	215	25.232	41.837	43.391	0.00	0.00
ATOM	3251	HG2	ARG	X	215	26.163	41.406	43.023	0.00	0.00
ATOM	3252	HG3	ARG	X	215	25.383	42.116	44.434	0.00	0.00
ATOM	3253	CD	ARG	X	215	24.049	40.800	43.383	0.00	0.00
ATOM	3254	HD2	ARG	X	215	23.149	41.251	43.800	0.00	0.00
ATOM	3255	HD3	ARG	X	215	23.831	40.572	42.339	0.00	0.00
ATOM	3256	NE	ARG	X	215	24.465	39.561	43.996	0.00	0.00
ATOM	3257	HE	ARG	X	215	25.440	39.356	44.164	0.00	0.00
ATOM	3258	CZ	ARG	X	215	23.572	38.700	44.508	0.00	0.00
ATOM	3259	NH1	ARG	X	215	22.264	38.832	44.452	0.00	0.00
ATOM	3260	HH11	ARG	X	215	21.904	39.583	43.881	0.00	0.00
ATOM	3261	HH12	ARG	X	215	21.561	38.193	44.795	0.00	0.00
ATOM	3262	NH2	ARG	X	215	24.051	37.648	45.203	0.00	0.00
ATOM	3263	HH21	ARG	X	215	25.014	37.544	45.488	0.00	0.00
ATOM	3264	HH22	ARG	X	215	23.359	36.970	45.489	0.00	0.00
ATOM	3265	C	ARG	X	215	25.134	45.272	41.485	0.00	0.00
ATOM	3266	O	ARG	X	215	25.503	45.094	40.354	0.00	0.00
ATOM	3267	N	GLY	X	216	24.359	46.250	41.903	0.00	0.00
ATOM	3268	H	GLY	X	216	24.195	46.205	42.898	0.00	0.00
ATOM	3269	CA	GLY	X	216	23.691	47.266	41.117	0.00	0.00
ATOM	3270	HA2	GLY	X	216	23.444	46.894	40.094	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.806	47.721	41.639	0.00	0.00
ATOM	3272	C	GLY	X	216	24.686	48.378	40.850	0.00	0.00
ATOM	3273	O	GLY	X	216	24.230	49.356	40.209	0.00	0.00
ATOM	3274	N	LEU	X	217	25.935	48.312	41.280	0.00	0.00
ATOM	3275	H	LEU	X	217	26.111	47.619	41.994	0.00	0.00
ATOM	3276	CA	LEU	X	217	26.938	49.290	41.020	0.00	0.00
ATOM	3277	HA	LEU	X	217	26.461	50.214	40.694	0.00	0.00
ATOM	3278	CB	LEU	X	217	27.752	49.464	42.347	0.00	0.00
ATOM	3279	HB2	LEU	X	217	28.511	48.682	42.369	0.00	0.00
ATOM	3280	HB3	LEU	X	217	28.490	50.263	42.289	0.00	0.00
ATOM	3281	CG	LEU	X	217	26.967	49.640	43.706	0.00	0.00
ATOM	3282	HG	LEU	X	217	26.287	48.801	43.850	0.00	0.00
ATOM	3283	CD1	LEU	X	217	27.852	49.670	44.915	0.00	0.00
ATOM	3284	HD11	LEU	X	217	27.184	49.724	45.774	0.00	0.00
ATOM	3285	HD12	LEU	X	217	28.437	48.755	45.009	0.00	0.00
ATOM	3286	HD13	LEU	X	217	28.413	50.604	44.877	0.00	0.00
ATOM	3287	CD2	LEU	X	217	26.125	50.976	43.633	0.00	0.00
ATOM	3288	HD21	LEU	X	217	25.345	50.869	42.879	0.00	0.00
ATOM	3289	HD22	LEU	X	217	25.662	51.174	44.600	0.00	0.00
ATOM	3290	HD23	LEU	X	217	26.788	51.785	43.326	0.00	0.00
ATOM	3291	C	LEU	X	217	27.808	48.961	39.815	0.00	0.00
ATOM	3292	O	LEU	X	217	28.809	49.668	39.633	0.00	0.00
ATOM	3293	N	PHE	X	218	27.628	47.908	39.067	0.00	0.00
ATOM	3294	H	PHE	X	218	26.838	47.284	39.143	0.00	0.00
ATOM	3295	CA	PHE	X	218	28.413	47.554	37.917	0.00	0.00
ATOM	3296	HA	PHE	X	218	28.426	48.455	37.304	0.00	0.00
ATOM	3297	CB	PHE	X	218	29.764	46.899	38.195	0.00	0.00

ATOM	3298	HB2	PHE	X	218	30.277	46.862	37.234	0.00	0.00
ATOM	3299	HB3	PHE	X	218	30.277	47.551	38.902	0.00	0.00
ATOM	3300	CG	PHE	X	218	29.674	45.536	38.940	0.00	0.00
ATOM	3301	CD1	PHE	X	218	29.419	45.535	40.308	0.00	0.00
ATOM	3302	HD1	PHE	X	218	29.260	46.421	40.905	0.00	0.00
ATOM	3303	CE1	PHE	X	218	29.431	44.308	40.930	0.00	0.00
ATOM	3304	HE1	PHE	X	218	29.156	44.265	41.974	0.00	0.00
ATOM	3305	CZ	PHE	X	218	29.764	43.112	40.239	0.00	0.00
ATOM	3306	HZ	PHE	X	218	29.891	42.167	40.745	0.00	0.00
ATOM	3307	CE2	PHE	X	218	30.064	43.135	38.871	0.00	0.00
ATOM	3308	HE2	PHE	X	218	30.405	42.228	38.393	0.00	0.00
ATOM	3309	CD2	PHE	X	218	30.057	44.386	38.223	0.00	0.00
ATOM	3310	HD2	PHE	X	218	30.297	44.521	37.179	0.00	0.00
ATOM	3311	C	PHE	X	218	27.574	46.573	37.053	0.00	0.00
ATOM	3312	O	PHE	X	218	26.580	45.967	37.475	0.00	0.00
ATOM	3313	N	HIE	X	219	28.000	46.312	35.823	0.00	0.00
ATOM	3314	H	HIE	X	219	28.841	46.704	35.425	0.00	0.00
ATOM	3315	CA	HIE	X	219	27.238	45.486	34.811	0.00	0.00
ATOM	3316	HA	HIE	X	219	26.259	45.286	35.246	0.00	0.00
ATOM	3317	CB	HIE	X	219	26.962	46.407	33.592	0.00	0.00
ATOM	3318	HB2	HIE	X	219	27.899	46.677	33.105	0.00	0.00
ATOM	3319	HB3	HIE	X	219	26.287	45.948	32.869	0.00	0.00
ATOM	3320	CG	HIE	X	219	26.399	47.686	34.085	0.00	0.00
ATOM	3321	ND1	HIE	X	219	27.152	48.735	34.525	0.00	0.00
ATOM	3322	CE1	HIE	X	219	26.252	49.590	34.990	0.00	0.00
ATOM	3323	HE1	HIE	X	219	26.424	50.513	35.523	0.00	0.00
ATOM	3324	NE2	HIE	X	219	25.002	49.202	34.816	0.00	0.00
ATOM	3325	HE2	HIE	X	219	24.134	49.654	35.067	0.00	0.00
ATOM	3326	CD2	HIE	X	219	25.062	48.024	34.204	0.00	0.00
ATOM	3327	HD2	HIE	X	219	24.201	47.467	33.865	0.00	0.00
ATOM	3328	C	HIE	X	219	27.986	44.160	34.459	0.00	0.00
ATOM	3329	O	HIE	X	219	27.368	43.152	34.272	0.00	0.00
ATOM	3330	N	ARG	X	220	29.312	44.096	34.470	0.00	0.00
ATOM	3331	H	ARG	X	220	29.827	44.963	34.412	0.00	0.00
ATOM	3332	CA	ARG	X	220	30.078	42.854	34.048	0.00	0.00
ATOM	3333	HA	ARG	X	220	29.471	41.977	34.274	0.00	0.00
ATOM	3334	CB	ARG	X	220	30.377	42.918	32.567	0.00	0.00
ATOM	3335	HB2	ARG	X	220	31.076	43.739	32.408	0.00	0.00
ATOM	3336	HB3	ARG	X	220	30.669	41.925	32.224	0.00	0.00
ATOM	3337	CG	ARG	X	220	29.178	43.292	31.634	0.00	0.00
ATOM	3338	HG2	ARG	X	220	28.290	42.683	31.806	0.00	0.00
ATOM	3339	HG3	ARG	X	220	28.918	44.346	31.732	0.00	0.00
ATOM	3340	CD	ARG	X	220	29.575	43.168	30.152	0.00	0.00
ATOM	3341	HD2	ARG	X	220	30.449	43.708	29.786	0.00	0.00
ATOM	3342	HD3	ARG	X	220	29.749	42.100	30.019	0.00	0.00
ATOM	3343	NE	ARG	X	220	28.487	43.608	29.291	0.00	0.00
ATOM	3344	HE	ARG	X	220	27.917	42.856	28.930	0.00	0.00
ATOM	3345	CZ	ARG	X	220	28.225	44.873	28.968	0.00	0.00
ATOM	3346	NH1	ARG	X	220	28.846	45.936	29.545	0.00	0.00
ATOM	3347	HH11	ARG	X	220	29.689	45.777	30.079	0.00	0.00
ATOM	3348	HH12	ARG	X	220	28.498	46.856	29.317	0.00	0.00
ATOM	3349	NH2	ARG	X	220	27.330	45.069	28.089	0.00	0.00
ATOM	3350	HH21	ARG	X	220	26.983	44.267	27.583	0.00	0.00
ATOM	3351	HH22	ARG	X	220	26.977	46.000	27.918	0.00	0.00
ATOM	3352	C	ARG	X	220	31.446	42.777	34.713	0.00	0.00
ATOM	3353	O	ARG	X	220	31.942	43.733	35.360	0.00	0.00
ATOM	3354	N	ALA	X	221	32.088	41.619	34.676	0.00	0.00
ATOM	3355	H	ALA	X	221	31.674	40.860	34.153	0.00	0.00
ATOM	3356	CA	ALA	X	221	33.281	41.299	35.495	0.00	0.00
ATOM	3357	HA	ALA	X	221	33.776	42.175	35.914	0.00	0.00
ATOM	3358	CB	ALA	X	221	32.642	40.381	36.572	0.00	0.00
ATOM	3359	HB1	ALA	X	221	31.887	41.039	37.003	0.00	0.00
ATOM	3360	HB2	ALA	X	221	32.129	39.464	36.280	0.00	0.00
ATOM	3361	HB3	ALA	X	221	33.298	40.028	37.368	0.00	0.00
ATOM	3362	C	ALA	X	221	34.461	40.528	34.852	0.00	0.00
ATOM	3363	O	ALA	X	221	34.231	39.790	33.921	0.00	0.00
ATOM	3364	N	VAL	X	222	35.648	40.794	35.317	0.00	0.00
ATOM	3365	H	VAL	X	222	35.835	41.608	35.885	0.00	0.00
ATOM	3366	CA	VAL	X	222	36.817	40.034	35.004	0.00	0.00
ATOM	3367	HA	VAL	X	222	36.604	39.070	34.540	0.00	0.00

ATOM	3368	CB	VAL	X	222	37.691	40.830	33.968	0.00	0.00
ATOM	3369	HB	VAL	X	222	38.096	41.708	34.473	0.00	0.00
ATOM	3370	CG1	VAL	X	222	38.908	40.132	33.421	0.00	0.00
ATOM	3371	HG11	VAL	X	222	39.604	40.019	34.252	0.00	0.00
ATOM	3372	HG12	VAL	X	222	38.682	39.190	32.922	0.00	0.00
ATOM	3373	HG13	VAL	X	222	39.524	40.751	32.769	0.00	0.00
ATOM	3374	CG2	VAL	X	222	36.919	41.434	32.802	0.00	0.00
ATOM	3375	HG21	VAL	X	222	37.467	42.244	32.320	0.00	0.00
ATOM	3376	HG22	VAL	X	222	36.850	40.634	32.066	0.00	0.00
ATOM	3377	HG23	VAL	X	222	35.952	41.832	33.111	0.00	0.00
ATOM	3378	C	VAL	X	222	37.642	39.628	36.263	0.00	0.00
ATOM	3379	O	VAL	X	222	37.783	40.323	37.254	0.00	0.00
ATOM	3380	N	LEU	X	223	38.175	38.378	36.173	0.00	0.00
ATOM	3381	H	LEU	X	223	37.954	37.741	35.421	0.00	0.00
ATOM	3382	CA	LEU	X	223	38.868	37.766	37.360	0.00	0.00
ATOM	3383	HA	LEU	X	223	39.129	38.584	38.033	0.00	0.00
ATOM	3384	CB	LEU	X	223	37.903	36.684	37.999	0.00	0.00
ATOM	3385	HB2	LEU	X	223	37.290	36.361	37.158	0.00	0.00
ATOM	3386	HB3	LEU	X	223	38.263	35.724	38.370	0.00	0.00
ATOM	3387	CG	LEU	X	223	36.971	37.283	39.112	0.00	0.00
ATOM	3388	HG	LEU	X	223	37.413	38.249	39.353	0.00	0.00
ATOM	3389	CD1	LEU	X	223	35.514	37.419	38.546	0.00	0.00
ATOM	3390	HD11	LEU	X	223	34.852	37.783	39.332	0.00	0.00
ATOM	3391	HD12	LEU	X	223	35.416	38.016	37.639	0.00	0.00
ATOM	3392	HD13	LEU	X	223	35.171	36.424	38.260	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.867	36.377	40.376	0.00	0.00
ATOM	3394	HD21	LEU	X	223	36.349	36.959	41.138	0.00	0.00
ATOM	3395	HD22	LEU	X	223	36.375	35.446	40.093	0.00	0.00
ATOM	3396	HD23	LEU	X	223	37.863	36.161	40.763	0.00	0.00
ATOM	3397	C	LEU	X	223	40.114	37.085	36.891	0.00	0.00
ATOM	3398	O	LEU	X	223	40.024	35.967	36.360	0.00	0.00
ATOM	3399	N	GLN	X	224	41.309	37.575	37.277	0.00	0.00
ATOM	3400	H	GLN	X	224	41.420	38.349	37.917	0.00	0.00
ATOM	3401	CA	GLN	X	224	42.599	37.245	36.641	0.00	0.00
ATOM	3402	HA	GLN	X	224	42.348	36.609	35.792	0.00	0.00
ATOM	3403	CB	GLN	X	224	43.256	38.560	36.082	0.00	0.00
ATOM	3404	HB2	GLN	X	224	43.534	39.276	36.855	0.00	0.00
ATOM	3405	HB3	GLN	X	224	44.191	38.324	35.573	0.00	0.00
ATOM	3406	CG	GLN	X	224	42.356	39.313	35.093	0.00	0.00
ATOM	3407	HG2	GLN	X	224	41.954	38.630	34.345	0.00	0.00
ATOM	3408	HG3	GLN	X	224	41.478	39.761	35.558	0.00	0.00
ATOM	3409	CD	GLN	X	224	43.110	40.403	34.324	0.00	0.00
ATOM	3410	OE1	GLN	X	224	42.496	41.508	34.166	0.00	0.00
ATOM	3411	NE2	GLN	X	224	44.280	40.180	33.794	0.00	0.00
ATOM	3412	HE21	GLN	X	224	44.778	40.997	33.468	0.00	0.00
ATOM	3413	HE22	GLN	X	224	44.763	39.304	33.933	0.00	0.00
ATOM	3414	C	GLN	X	224	43.492	36.546	37.647	0.00	0.00
ATOM	3415	O	GLN	X	224	43.889	37.293	38.614	0.00	0.00
ATOM	3416	N	SER	X	225	43.832	35.313	37.492	0.00	0.00
ATOM	3417	H	SER	X	225	43.404	34.760	36.763	0.00	0.00
ATOM	3418	CA	SER	X	225	44.796	34.598	38.444	0.00	0.00
ATOM	3419	HA	SER	X	225	44.835	33.562	38.106	0.00	0.00
ATOM	3420	CB	SER	X	225	46.192	35.097	38.545	0.00	0.00
ATOM	3421	HB2	SER	X	225	46.197	36.161	38.780	0.00	0.00
ATOM	3422	HB3	SER	X	225	46.692	34.532	39.331	0.00	0.00
ATOM	3423	OG	SER	X	225	47.014	34.870	37.437	0.00	0.00
ATOM	3424	HG	SER	X	225	47.286	33.950	37.484	0.00	0.00
ATOM	3425	C	SER	X	225	44.223	34.524	39.892	0.00	0.00
ATOM	3426	O	SER	X	225	44.873	34.537	40.938	0.00	0.00
ATOM	3427	N	GLY	X	226	42.891	34.424	39.964	0.00	0.00
ATOM	3428	H	GLY	X	226	42.390	34.532	39.093	0.00	0.00
ATOM	3429	CA	GLY	X	226	42.123	34.051	41.174	0.00	0.00
ATOM	3430	HA2	GLY	X	226	42.373	33.110	41.671	0.00	0.00
ATOM	3431	HA3	GLY	X	226	42.388	34.745	41.882	0.00	0.00
ATOM	3432	C	GLY	X	226	40.626	33.949	41.146	0.00	0.00
ATOM	3433	O	GLY	X	226	40.016	34.377	40.140	0.00	0.00
ATOM	3434	N	ALA	X	227	40.008	33.544	42.193	0.00	0.00
ATOM	3435	H	ALA	X	227	40.612	33.236	42.942	0.00	0.00
ATOM	3436	CA	ALA	X	227	38.526	33.311	42.280	0.00	0.00
ATOM	3437	HA	ALA	X	227	37.891	33.948	41.664	0.00	0.00

ATOM	3438	CB	ALA	X	227	38.276	31.886	41.864	0.00	0.00
ATOM	3439	HB1	ALA	X	227	38.885	31.781	40.966	0.00	0.00
ATOM	3440	HB2	ALA	X	227	38.663	31.138	42.556	0.00	0.00
ATOM	3441	HB3	ALA	X	227	37.205	31.818	41.678	0.00	0.00
ATOM	3442	C	ALA	X	227	38.076	33.597	43.749	0.00	0.00
ATOM	3443	O	ALA	X	227	38.866	33.455	44.696	0.00	0.00
ATOM	3444	N	PRO	X	228	36.763	33.797	43.979	0.00	0.00
ATOM	3445	CD	PRO	X	228	35.727	33.949	42.946	0.00	0.00
ATOM	3446	HD2	PRO	X	228	35.827	33.337	42.049	0.00	0.00
ATOM	3447	HD3	PRO	X	228	35.727	34.922	42.456	0.00	0.00
ATOM	3448	CG	PRO	X	228	34.357	33.898	43.697	0.00	0.00
ATOM	3449	HG2	PRO	X	228	33.979	32.883	43.811	0.00	0.00
ATOM	3450	HG3	PRO	X	228	33.769	34.589	43.093	0.00	0.00
ATOM	3451	CB	PRO	X	228	34.784	34.493	45.045	0.00	0.00
ATOM	3452	HB2	PRO	X	228	34.034	34.239	45.794	0.00	0.00
ATOM	3453	HB3	PRO	X	228	34.804	35.577	45.152	0.00	0.00
ATOM	3454	CA	PRO	X	228	36.189	33.976	45.295	0.00	0.00
ATOM	3455	HA	PRO	X	228	36.743	34.689	45.904	0.00	0.00
ATOM	3456	C	PRO	X	228	36.166	32.637	46.071	0.00	0.00
ATOM	3457	O	PRO	X	228	36.445	32.642	47.270	0.00	0.00
ATOM	3458	N	ASN	X	229	35.935	31.520	45.404	0.00	0.00
ATOM	3459	H	ASN	X	229	35.679	31.594	44.429	0.00	0.00
ATOM	3460	CA	ASN	X	229	35.963	30.204	45.931	0.00	0.00
ATOM	3461	HA	ASN	X	229	35.639	30.201	46.972	0.00	0.00
ATOM	3462	CB	ASN	X	229	34.944	29.336	45.206	0.00	0.00
ATOM	3463	HB2	ASN	X	229	34.940	28.334	45.633	0.00	0.00
ATOM	3464	HB3	ASN	X	229	33.936	29.726	45.352	0.00	0.00
ATOM	3465	CG	ASN	X	229	35.138	29.298	43.728	0.00	0.00
ATOM	3466	OD1	ASN	X	229	34.660	30.142	43.003	0.00	0.00
ATOM	3467	ND2	ASN	X	229	35.703	28.285	43.188	0.00	0.00
ATOM	3468	HD21	ASN	X	229	35.740	28.157	42.187	0.00	0.00
ATOM	3469	HD22	ASN	X	229	36.144	27.585	43.768	0.00	0.00
ATOM	3470	C	ASN	X	229	37.358	29.536	46.025	0.00	0.00
ATOM	3471	O	ASN	X	229	37.488	28.365	45.807	0.00	0.00
ATOM	3472	N	GLY	X	230	38.393	30.372	46.224	0.00	0.00
ATOM	3473	H	GLY	X	230	38.144	31.343	46.348	0.00	0.00
ATOM	3474	CA	GLY	X	230	39.848	30.037	46.484	0.00	0.00
ATOM	3475	HA2	GLY	X	230	39.998	29.118	45.829	0.00	0.00
ATOM	3476	HA3	GLY	X	230	40.455	30.969	46.264	0.00	0.00
ATOM	3477	C	GLY	X	230	39.958	29.625	47.965	0.00	0.00
ATOM	3478	O	GLY	X	230	39.418	30.275	48.862	0.00	0.00
ATOM	3479	N	PRO	X	231	40.644	28.472	48.248	0.00	0.00
ATOM	3480	CD	PRO	X	231	41.617	27.794	47.432	0.00	0.00
ATOM	3481	HD2	PRO	X	231	42.227	28.528	46.905	0.00	0.00
ATOM	3482	HD3	PRO	X	231	41.304	27.131	46.626	0.00	0.00
ATOM	3483	CG	PRO	X	231	42.506	27.019	48.502	0.00	0.00
ATOM	3484	HG2	PRO	X	231	43.325	27.684	48.776	0.00	0.00
ATOM	3485	HG3	PRO	X	231	42.960	26.120	48.087	0.00	0.00
ATOM	3486	CB	PRO	X	231	41.661	26.769	49.791	0.00	0.00
ATOM	3487	HB2	PRO	X	231	42.327	26.786	50.653	0.00	0.00
ATOM	3488	HB3	PRO	X	231	41.067	25.863	49.666	0.00	0.00
ATOM	3489	CA	PRO	X	231	40.730	27.980	49.675	0.00	0.00
ATOM	3490	HA	PRO	X	231	39.769	27.606	50.028	0.00	0.00
ATOM	3491	C	PRO	X	231	41.258	29.157	50.599	0.00	0.00
ATOM	3492	O	PRO	X	231	40.514	29.567	51.468	0.00	0.00
ATOM	3493	N	TRP	X	232	42.318	29.854	50.272	0.00	0.00
ATOM	3494	H	TRP	X	232	42.809	29.517	49.456	0.00	0.00
ATOM	3495	CA	TRP	X	232	42.847	30.982	50.966	0.00	0.00
ATOM	3496	HA	TRP	X	232	42.950	30.676	52.007	0.00	0.00
ATOM	3497	CB	TRP	X	232	44.219	31.300	50.334	0.00	0.00
ATOM	3498	HB2	TRP	X	232	44.575	32.188	50.857	0.00	0.00
ATOM	3499	HB3	TRP	X	232	44.891	30.448	50.433	0.00	0.00
ATOM	3500	CG	TRP	X	232	43.993	31.558	48.860	0.00	0.00
ATOM	3501	CD1	TRP	X	232	44.135	30.614	47.914	0.00	0.00
ATOM	3502	HD1	TRP	X	232	44.459	29.601	48.105	0.00	0.00
ATOM	3503	NE1	TRP	X	232	43.903	31.217	46.711	0.00	0.00
ATOM	3504	HE1	TRP	X	232	44.180	30.762	45.852	0.00	0.00
ATOM	3505	CE2	TRP	X	232	43.561	32.535	46.721	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	43.192	33.486	45.780	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	43.191	33.301	44.716	0.00	0.00

ATOM	3508	CH2	TRP	X	232	42.910	34.784	46.265	0.00	0.00
ATOM	3509	HH2	TRP	X	232	42.789	35.567	45.532	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	43.106	35.096	47.596	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	42.907	36.098	47.946	0.00	0.00
ATOM	3512	CE3	TRP	X	232	43.478	34.124	48.533	0.00	0.00
ATOM	3513	HE3	TRP	X	232	43.501	34.378	49.582	0.00	0.00
ATOM	3514	CD2	TRP	X	232	43.619	32.813	48.155	0.00	0.00
ATOM	3515	C	TRP	X	232	41.968	32.295	50.968	0.00	0.00
ATOM	3516	O	TRP	X	232	42.162	33.211	51.783	0.00	0.00
ATOM	3517	N	ALA	X	233	40.960	32.387	50.126	0.00	0.00
ATOM	3518	H	ALA	X	233	40.773	31.599	49.523	0.00	0.00
ATOM	3519	CA	ALA	X	233	40.282	33.720	49.775	0.00	0.00
ATOM	3520	HA	ALA	X	233	40.982	34.555	49.767	0.00	0.00
ATOM	3521	CB	ALA	X	233	39.757	33.533	48.416	0.00	0.00
ATOM	3522	HB1	ALA	X	233	39.203	32.607	48.261	0.00	0.00
ATOM	3523	HB2	ALA	X	233	39.252	34.433	48.064	0.00	0.00
ATOM	3524	HB3	ALA	X	233	40.607	33.484	47.737	0.00	0.00
ATOM	3525	C	ALA	X	233	39.293	34.127	50.873	0.00	0.00
ATOM	3526	O	ALA	X	233	38.448	34.997	50.672	0.00	0.00
ATOM	3527	N	THR	X	234	39.347	33.543	52.075	0.00	0.00
ATOM	3528	H	THR	X	234	40.074	32.855	52.213	0.00	0.00
ATOM	3529	CA	THR	X	234	38.250	33.646	53.162	0.00	0.00
ATOM	3530	HA	THR	X	234	37.955	34.674	53.373	0.00	0.00
ATOM	3531	CB	THR	X	234	37.016	32.869	52.558	0.00	0.00
ATOM	3532	HB	THR	X	234	37.442	32.055	51.971	0.00	0.00
ATOM	3533	CG2	THR	X	234	36.072	32.314	53.568	0.00	0.00
ATOM	3534	HG21	THR	X	234	36.533	31.536	54.177	0.00	0.00
ATOM	3535	HG22	THR	X	234	35.757	33.100	54.254	0.00	0.00
ATOM	3536	HG23	THR	X	234	35.185	31.897	53.091	0.00	0.00
ATOM	3537	OG1	THR	X	234	36.312	33.777	51.712	0.00	0.00
ATOM	3538	HG1	THR	X	234	36.932	34.231	51.137	0.00	0.00
ATOM	3539	C	THR	X	234	38.805	32.944	54.402	0.00	0.00
ATOM	3540	O	THR	X	234	39.668	32.109	54.369	0.00	0.00
ATOM	3541	N	VAL	X	235	38.227	33.312	55.570	0.00	0.00
ATOM	3542	H	VAL	X	235	37.696	34.166	55.477	0.00	0.00
ATOM	3543	CA	VAL	X	235	38.266	32.681	56.887	0.00	0.00
ATOM	3544	HA	VAL	X	235	38.312	31.617	56.654	0.00	0.00
ATOM	3545	CB	VAL	X	235	39.554	33.188	57.621	0.00	0.00
ATOM	3546	HB	VAL	X	235	40.350	33.135	56.878	0.00	0.00
ATOM	3547	CG1	VAL	X	235	39.402	34.583	58.221	0.00	0.00
ATOM	3548	HG11	VAL	X	235	39.149	35.297	57.436	0.00	0.00
ATOM	3549	HG12	VAL	X	235	38.550	34.579	58.900	0.00	0.00
ATOM	3550	HG13	VAL	X	235	40.284	34.752	58.839	0.00	0.00
ATOM	3551	CG2	VAL	X	235	39.997	32.213	58.714	0.00	0.00
ATOM	3552	HG21	VAL	X	235	41.064	32.367	58.873	0.00	0.00
ATOM	3553	HG22	VAL	X	235	39.585	32.504	59.680	0.00	0.00
ATOM	3554	HG23	VAL	X	235	39.847	31.171	58.432	0.00	0.00
ATOM	3555	C	VAL	X	235	36.943	32.918	57.584	0.00	0.00
ATOM	3556	O	VAL	X	235	36.173	33.781	57.223	0.00	0.00
ATOM	3557	N	GLY	X	236	36.678	32.278	58.660	0.00	0.00
ATOM	3558	H	GLY	X	236	37.337	31.590	58.993	0.00	0.00
ATOM	3559	CA	GLY	X	236	35.518	32.662	59.485	0.00	0.00
ATOM	3560	HA2	GLY	X	236	34.679	33.055	58.870	0.00	0.00
ATOM	3561	HA3	GLY	X	236	35.103	31.794	59.968	0.00	0.00
ATOM	3562	C	GLY	X	236	35.895	33.584	60.644	0.00	0.00
ATOM	3563	O	GLY	X	236	37.058	33.931	60.943	0.00	0.00
ATOM	3564	N	MET	X	237	34.798	34.139	61.270	0.00	0.00
ATOM	3565	H	MET	X	237	33.926	33.639	61.166	0.00	0.00
ATOM	3566	CA	MET	X	237	34.862	35.099	62.389	0.00	0.00
ATOM	3567	HA	MET	X	237	35.551	35.846	61.997	0.00	0.00
ATOM	3568	CB	MET	X	237	33.485	35.781	62.554	0.00	0.00
ATOM	3569	HB2	MET	X	237	33.463	36.573	63.303	0.00	0.00
ATOM	3570	HB3	MET	X	237	33.267	36.333	61.639	0.00	0.00
ATOM	3571	CG	MET	X	237	32.361	34.799	62.679	0.00	0.00
ATOM	3572	HG2	MET	X	237	32.390	34.117	61.829	0.00	0.00
ATOM	3573	HG3	MET	X	237	32.549	34.097	63.492	0.00	0.00
ATOM	3574	SD	MET	X	237	30.720	35.518	62.811	0.00	0.00
ATOM	3575	CE	MET	X	237	29.797	34.093	63.501	0.00	0.00
ATOM	3576	HE1	MET	X	237	28.746	34.321	63.677	0.00	0.00
ATOM	3577	HE2	MET	X	237	29.789	33.241	62.821	0.00	0.00

ATOM	3578	HE3	MET	X	237	30.208	33.711	64.436	0.00	0.00
ATOM	3579	C	MET	X	237	35.463	34.663	63.715	0.00	0.00
ATOM	3580	O	MET	X	237	36.112	35.500	64.341	0.00	0.00
ATOM	3581	N	GLY	X	238	35.526	33.364	63.979	0.00	0.00
ATOM	3582	H	GLY	X	238	35.252	32.631	63.341	0.00	0.00
ATOM	3583	CA	GLY	X	238	36.125	33.020	65.289	0.00	0.00
ATOM	3584	HA2	GLY	X	238	35.896	33.784	65.962	0.00	0.00
ATOM	3585	HA3	GLY	X	238	35.677	32.200	65.755	0.00	0.00
ATOM	3586	C	GLY	X	238	37.616	32.907	65.191	0.00	0.00
ATOM	3587	O	GLY	X	238	38.249	33.232	66.108	0.00	0.00
ATOM	3588	N	GLU	X	239	38.129	32.445	64.024	0.00	0.00
ATOM	3589	H	GLU	X	239	37.470	32.101	63.340	0.00	0.00
ATOM	3590	CA	GLU	X	239	39.561	32.482	63.764	0.00	0.00
ATOM	3591	HA	GLU	X	239	40.092	32.042	64.609	0.00	0.00
ATOM	3592	CB	GLU	X	239	39.905	31.550	62.626	0.00	0.00
ATOM	3593	HB2	GLU	X	239	39.172	31.612	61.821	0.00	0.00
ATOM	3594	HB3	GLU	X	239	40.832	31.932	62.198	0.00	0.00
ATOM	3595	CG	GLU	X	239	40.131	30.131	63.028	0.00	0.00
ATOM	3596	HG2	GLU	X	239	39.284	29.846	63.652	0.00	0.00
ATOM	3597	HG3	GLU	X	239	40.426	29.490	62.197	0.00	0.00
ATOM	3598	CD	GLU	X	239	41.416	29.914	63.840	0.00	0.00
ATOM	3599	OE1	GLU	X	239	42.478	29.897	63.204	0.00	0.00
ATOM	3600	OE2	GLU	X	239	41.375	29.421	64.990	0.00	0.00
ATOM	3601	C	GLU	X	239	40.090	33.905	63.564	0.00	0.00
ATOM	3602	O	GLU	X	239	41.152	34.206	64.082	0.00	0.00
ATOM	3603	N	ALA	X	240	39.330	34.797	62.836	0.00	0.00
ATOM	3604	H	ALA	X	240	38.459	34.572	62.378	0.00	0.00
ATOM	3605	CA	ALA	X	240	39.637	36.253	62.796	0.00	0.00
ATOM	3606	HA	ALA	X	240	40.563	36.381	62.236	0.00	0.00
ATOM	3607	CB	ALA	X	240	38.463	36.909	62.015	0.00	0.00
ATOM	3608	HB1	ALA	X	240	38.304	36.299	61.126	0.00	0.00
ATOM	3609	HB2	ALA	X	240	37.518	36.796	62.547	0.00	0.00
ATOM	3610	HB3	ALA	X	240	38.713	37.934	61.744	0.00	0.00
ATOM	3611	C	ALA	X	240	39.622	36.852	64.167	0.00	0.00
ATOM	3612	O	ALA	X	240	40.567	37.522	64.539	0.00	0.00
ATOM	3613	N	ARG	X	241	38.646	36.500	65.068	0.00	0.00
ATOM	3614	H	ARG	X	241	37.782	36.068	64.775	0.00	0.00
ATOM	3615	CA	ARG	X	241	38.755	36.907	66.502	0.00	0.00
ATOM	3616	HA	ARG	X	241	38.698	37.993	66.572	0.00	0.00
ATOM	3617	CB	ARG	X	241	37.623	36.358	67.410	0.00	0.00
ATOM	3618	HB2	ARG	X	241	36.767	36.270	66.741	0.00	0.00
ATOM	3619	HB3	ARG	X	241	37.888	35.384	67.820	0.00	0.00
ATOM	3620	CG	ARG	X	241	37.180	37.216	68.548	0.00	0.00
ATOM	3621	HG2	ARG	X	241	36.950	38.177	68.086	0.00	0.00
ATOM	3622	HG3	ARG	X	241	36.213	36.905	68.943	0.00	0.00
ATOM	3623	CD	ARG	X	241	38.123	37.401	69.774	0.00	0.00
ATOM	3624	HD2	ARG	X	241	38.274	36.423	70.232	0.00	0.00
ATOM	3625	HD3	ARG	X	241	39.042	37.923	69.506	0.00	0.00
ATOM	3626	NE	ARG	X	241	37.566	38.193	70.888	0.00	0.00
ATOM	3627	HE	ARG	X	241	36.731	38.719	70.676	0.00	0.00
ATOM	3628	CZ	ARG	X	241	37.896	38.074	72.165	0.00	0.00
ATOM	3629	NH1	ARG	X	241	38.919	37.319	72.630	0.00	0.00
ATOM	3630	HH11	ARG	X	241	39.336	36.701	71.949	0.00	0.00
ATOM	3631	HH12	ARG	X	241	39.358	37.511	73.519	0.00	0.00
ATOM	3632	NH2	ARG	X	241	37.248	38.808	73.033	0.00	0.00
ATOM	3633	HH21	ARG	X	241	36.428	39.320	72.742	0.00	0.00
ATOM	3634	HH22	ARG	X	241	37.466	38.646	74.005	0.00	0.00
ATOM	3635	C	ARG	X	241	40.075	36.494	67.146	0.00	0.00
ATOM	3636	O	ARG	X	241	40.717	37.297	67.833	0.00	0.00
ATOM	3637	N	ARG	X	242	40.450	35.255	66.912	0.00	0.00
ATOM	3638	H	ARG	X	242	39.895	34.620	66.356	0.00	0.00
ATOM	3639	CA	ARG	X	242	41.710	34.766	67.499	0.00	0.00
ATOM	3640	HA	ARG	X	242	41.511	34.955	68.554	0.00	0.00
ATOM	3641	CB	ARG	X	242	41.862	33.288	67.259	0.00	0.00
ATOM	3642	HB2	ARG	X	242	40.927	32.839	67.593	0.00	0.00
ATOM	3643	HB3	ARG	X	242	42.022	33.154	66.189	0.00	0.00
ATOM	3644	CG	ARG	X	242	43.015	32.649	68.016	0.00	0.00
ATOM	3645	HG2	ARG	X	242	43.966	32.918	67.556	0.00	0.00
ATOM	3646	HG3	ARG	X	242	43.052	33.067	69.022	0.00	0.00
ATOM	3647	CD	ARG	X	242	42.770	31.118	68.137	0.00	0.00

ATOM	3648	HD2	ARG	X	242	43.440	30.659	68.864	0.00	0.00
ATOM	3649	HD3	ARG	X	242	41.714	30.941	68.339	0.00	0.00
ATOM	3650	NE	ARG	X	242	43.116	30.476	66.940	0.00	0.00
ATOM	3651	HE	ARG	X	242	42.483	29.768	66.597	0.00	0.00
ATOM	3652	CZ	ARG	X	242	44.302	30.257	66.410	0.00	0.00
ATOM	3653	NH1	ARG	X	242	45.430	30.820	66.838	0.00	0.00
ATOM	3654	HH11	ARG	X	242	45.368	31.568	67.515	0.00	0.00
ATOM	3655	HH12	ARG	X	242	46.320	30.517	66.469	0.00	0.00
ATOM	3656	NH2	ARG	X	242	44.323	29.528	65.328	0.00	0.00
ATOM	3657	HH21	ARG	X	242	43.421	29.327	64.919	0.00	0.00
ATOM	3658	HH22	ARG	X	242	45.127	29.225	64.798	0.00	0.00
ATOM	3659	C	ARG	X	242	42.874	35.594	67.125	0.00	0.00
ATOM	3660	O	ARG	X	242	43.639	36.024	67.944	0.00	0.00
ATOM	3661	N	ARG	X	243	43.028	35.822	65.818	0.00	0.00
ATOM	3662	H	ARG	X	243	42.328	35.522	65.156	0.00	0.00
ATOM	3663	CA	ARG	X	243	44.019	36.824	65.330	0.00	0.00
ATOM	3664	HA	ARG	X	243	44.912	36.327	65.707	0.00	0.00
ATOM	3665	CB	ARG	X	243	43.966	36.757	63.819	0.00	0.00
ATOM	3666	HB2	ARG	X	243	42.950	36.960	63.480	0.00	0.00
ATOM	3667	HB3	ARG	X	243	44.645	37.509	63.417	0.00	0.00
ATOM	3668	CG	ARG	X	243	44.437	35.382	63.266	0.00	0.00
ATOM	3669	HG2	ARG	X	243	45.370	35.162	63.785	0.00	0.00
ATOM	3670	HG3	ARG	X	243	43.679	34.624	63.461	0.00	0.00
ATOM	3671	CD	ARG	X	243	44.698	35.441	61.811	0.00	0.00
ATOM	3672	HD2	ARG	X	243	44.037	36.103	61.251	0.00	0.00
ATOM	3673	HD3	ARG	X	243	45.653	35.938	61.641	0.00	0.00
ATOM	3674	NE	ARG	X	243	44.591	34.122	61.163	0.00	0.00
ATOM	3675	HE	ARG	X	243	44.253	33.326	61.686	0.00	0.00
ATOM	3676	CZ	ARG	X	243	44.872	33.827	59.926	0.00	0.00
ATOM	3677	NH1	ARG	X	243	45.367	34.686	59.082	0.00	0.00
ATOM	3678	HH11	ARG	X	243	45.260	35.661	59.320	0.00	0.00
ATOM	3679	HH12	ARG	X	243	45.672	34.441	58.150	0.00	0.00
ATOM	3680	NH2	ARG	X	243	44.677	32.632	59.531	0.00	0.00
ATOM	3681	HH21	ARG	X	243	44.237	31.945	60.127	0.00	0.00
ATOM	3682	HH22	ARG	X	243	45.072	32.369	58.639	0.00	0.00
ATOM	3683	C	ARG	X	243	43.874	38.263	66.001	0.00	0.00
ATOM	3684	O	ARG	X	243	44.868	38.893	66.314	0.00	0.00
ATOM	3685	N	ALA	X	244	42.693	38.735	66.322	0.00	0.00
ATOM	3686	H	ALA	X	244	41.858	38.200	66.130	0.00	0.00
ATOM	3687	CA	ALA	X	244	42.485	39.982	67.087	0.00	0.00
ATOM	3688	HA	ALA	X	244	43.154	40.752	66.703	0.00	0.00
ATOM	3689	CB	ALA	X	244	41.047	40.453	66.903	0.00	0.00
ATOM	3690	HB1	ALA	X	244	40.797	40.528	65.844	0.00	0.00
ATOM	3691	HB2	ALA	X	244	40.321	39.812	67.403	0.00	0.00
ATOM	3692	HB3	ALA	X	244	41.055	41.433	67.379	0.00	0.00
ATOM	3693	C	ALA	X	244	42.936	39.783	68.541	0.00	0.00
ATOM	3694	O	ALA	X	244	43.445	40.786	69.089	0.00	0.00
ATOM	3695	N	THR	X	245	42.717	38.638	69.183	0.00	0.00
ATOM	3696	H	THR	X	245	42.153	37.967	68.681	0.00	0.00
ATOM	3697	CA	THR	X	245	43.257	38.279	70.511	0.00	0.00
ATOM	3698	HA	THR	X	245	42.938	39.049	71.215	0.00	0.00
ATOM	3699	CB	THR	X	245	42.761	36.887	70.992	0.00	0.00
ATOM	3700	HB	THR	X	245	43.067	36.045	70.372	0.00	0.00
ATOM	3701	CG2	THR	X	245	43.186	36.596	72.375	0.00	0.00
ATOM	3702	HG21	THR	X	245	42.782	37.249	73.148	0.00	0.00
ATOM	3703	HG22	THR	X	245	42.852	35.580	72.587	0.00	0.00
ATOM	3704	HG23	THR	X	245	44.274	36.656	72.339	0.00	0.00
ATOM	3705	OG1	THR	X	245	41.362	36.931	70.769	0.00	0.00
ATOM	3706	HG1	THR	X	245	41.063	36.051	70.531	0.00	0.00
ATOM	3707	C	THR	X	245	44.824	38.392	70.413	0.00	0.00
ATOM	3708	O	THR	X	245	45.459	39.050	71.242	0.00	0.00
ATOM	3709	N	GLN	X	246	45.422	37.847	69.349	0.00	0.00
ATOM	3710	H	GLN	X	246	44.883	37.155	68.848	0.00	0.00
ATOM	3711	CA	GLN	X	246	46.836	37.798	69.170	0.00	0.00
ATOM	3712	HA	GLN	X	246	47.297	37.498	70.111	0.00	0.00
ATOM	3713	CB	GLN	X	246	47.269	36.840	67.980	0.00	0.00
ATOM	3714	HB2	GLN	X	246	46.775	37.107	67.046	0.00	0.00
ATOM	3715	HB3	GLN	X	246	48.334	36.994	67.804	0.00	0.00
ATOM	3716	CG	GLN	X	246	46.914	35.352	68.225	0.00	0.00
ATOM	3717	HG2	GLN	X	246	47.657	35.024	68.952	0.00	0.00

ATOM	3718	HG3	GLN	X	246	45.909	35.100	68.562	0.00	0.00
ATOM	3719	CD	GLN	X	246	47.145	34.482	66.950	0.00	0.00
ATOM	3720	OE1	GLN	X	246	46.278	33.993	66.207	0.00	0.00
ATOM	3721	NE2	GLN	X	246	48.416	34.143	66.632	0.00	0.00
ATOM	3722	HE21	GLN	X	246	48.612	33.668	65.763	0.00	0.00
ATOM	3723	HE22	GLN	X	246	49.171	34.490	67.206	0.00	0.00
ATOM	3724	C	GLN	X	246	47.449	39.186	68.926	0.00	0.00
ATOM	3725	O	GLN	X	246	48.445	39.496	69.585	0.00	0.00
ATOM	3726	N	LEU	X	247	46.839	39.989	68.111	0.00	0.00
ATOM	3727	H	LEU	X	247	46.071	39.639	67.555	0.00	0.00
ATOM	3728	CA	LEU	X	247	47.297	41.330	67.767	0.00	0.00
ATOM	3729	HA	LEU	X	247	48.368	41.373	67.567	0.00	0.00
ATOM	3730	CB	LEU	X	247	46.319	41.781	66.651	0.00	0.00
ATOM	3731	HB2	LEU	X	247	46.253	41.093	65.808	0.00	0.00
ATOM	3732	HB3	LEU	X	247	45.363	42.023	67.114	0.00	0.00
ATOM	3733	CG	LEU	X	247	46.750	43.182	66.142	0.00	0.00
ATOM	3734	HG	LEU	X	247	46.340	43.868	66.884	0.00	0.00
ATOM	3735	CD1	LEU	X	247	48.268	43.416	65.851	0.00	0.00
ATOM	3736	HD11	LEU	X	247	48.921	43.362	66.721	0.00	0.00
ATOM	3737	HD12	LEU	X	247	48.596	42.649	65.148	0.00	0.00
ATOM	3738	HD13	LEU	X	247	48.414	44.408	65.425	0.00	0.00
ATOM	3739	CD2	LEU	X	247	45.844	43.439	64.858	0.00	0.00
ATOM	3740	HD21	LEU	X	247	44.795	43.434	65.153	0.00	0.00
ATOM	3741	HD22	LEU	X	247	46.049	44.463	64.545	0.00	0.00
ATOM	3742	HD23	LEU	X	247	46.000	42.699	64.073	0.00	0.00
ATOM	3743	C	LEU	X	247	47.184	42.095	69.055	0.00	0.00
ATOM	3744	O	LEU	X	247	48.078	42.810	69.392	0.00	0.00
ATOM	3745	N	ALA	X	248	46.064	42.051	69.831	0.00	0.00
ATOM	3746	H	ALA	X	248	45.291	41.476	69.530	0.00	0.00
ATOM	3747	CA	ALA	X	248	45.939	42.779	71.088	0.00	0.00
ATOM	3748	HA	ALA	X	248	46.084	43.841	70.887	0.00	0.00
ATOM	3749	CB	ALA	X	248	44.506	42.573	71.606	0.00	0.00
ATOM	3750	HB1	ALA	X	248	44.514	41.564	72.018	0.00	0.00
ATOM	3751	HB2	ALA	X	248	44.361	43.218	72.473	0.00	0.00
ATOM	3752	HB3	ALA	X	248	43.695	42.678	70.885	0.00	0.00
ATOM	3753	C	ALA	X	248	47.025	42.484	72.120	0.00	0.00
ATOM	3754	O	ALA	X	248	47.399	43.355	72.836	0.00	0.00
ATOM	3755	N	HIE	X	249	47.578	41.243	72.062	0.00	0.00
ATOM	3756	H	HIE	X	249	47.288	40.692	71.266	0.00	0.00
ATOM	3757	CA	HIE	X	249	48.639	40.800	72.923	0.00	0.00
ATOM	3758	HA	HIE	X	249	48.354	41.092	73.933	0.00	0.00
ATOM	3759	CB	HIE	X	249	48.605	39.271	72.911	0.00	0.00
ATOM	3760	HB2	HIE	X	249	47.593	38.971	73.185	0.00	0.00
ATOM	3761	HB3	HIE	X	249	48.860	38.846	71.940	0.00	0.00
ATOM	3762	CG	HIE	X	249	49.589	38.710	73.818	0.00	0.00
ATOM	3763	ND1	HIE	X	249	49.499	38.803	75.230	0.00	0.00
ATOM	3764	CE1	HIE	X	249	50.744	38.549	75.659	0.00	0.00
ATOM	3765	HE1	HIE	X	249	51.051	38.734	76.678	0.00	0.00
ATOM	3766	NE2	HIE	X	249	51.566	38.189	74.653	0.00	0.00
ATOM	3767	HE2	HIE	X	249	52.499	37.812	74.739	0.00	0.00
ATOM	3768	CD2	HIE	X	249	50.872	38.382	73.537	0.00	0.00
ATOM	3769	HD2	HIE	X	249	51.244	38.374	72.523	0.00	0.00
ATOM	3770	C	HIE	X	249	49.957	41.449	72.591	0.00	0.00
ATOM	3771	O	HIE	X	249	50.592	42.004	73.527	0.00	0.00
ATOM	3772	N	LEU	X	250	50.379	41.390	71.329	0.00	0.00
ATOM	3773	H	LEU	X	250	49.775	40.797	70.777	0.00	0.00
ATOM	3774	CA	LEU	X	250	51.583	42.046	70.821	0.00	0.00
ATOM	3775	HA	LEU	X	250	52.436	41.735	71.423	0.00	0.00
ATOM	3776	CB	LEU	X	250	51.799	41.584	69.330	0.00	0.00
ATOM	3777	HB2	LEU	X	250	50.975	41.978	68.736	0.00	0.00
ATOM	3778	HB3	LEU	X	250	52.720	42.055	68.984	0.00	0.00
ATOM	3779	CG	LEU	X	250	51.941	40.052	69.090	0.00	0.00
ATOM	3780	HG	LEU	X	250	51.097	39.610	69.619	0.00	0.00
ATOM	3781	CD1	LEU	X	250	51.932	39.686	67.638	0.00	0.00
ATOM	3782	HD11	LEU	X	250	51.158	40.242	67.109	0.00	0.00
ATOM	3783	HD12	LEU	X	250	52.897	39.953	67.207	0.00	0.00
ATOM	3784	HD13	LEU	X	250	51.774	38.612	67.736	0.00	0.00
ATOM	3785	CD2	LEU	X	250	53.229	39.513	69.672	0.00	0.00
ATOM	3786	HD21	LEU	X	250	54.052	40.097	69.260	0.00	0.00
ATOM	3787	HD22	LEU	X	250	53.092	39.506	70.753	0.00	0.00

ATOM	3788	HD23	LEU	X	250	53.348	38.475	69.361	0.00	0.00
ATOM	3789	C	LEU	X	250	51.535	43.591	70.915	0.00	0.00
ATOM	3790	O	LEU	X	250	52.473	44.261	71.307	0.00	0.00
ATOM	3791	N	VAL	X	251	50.342	44.165	70.640	0.00	0.00
ATOM	3792	H	VAL	X	251	49.585	43.542	70.397	0.00	0.00
ATOM	3793	CA	VAL	X	251	50.021	45.631	70.813	0.00	0.00
ATOM	3794	HA	VAL	X	251	50.759	46.154	70.205	0.00	0.00
ATOM	3795	CB	VAL	X	251	48.600	45.935	70.240	0.00	0.00
ATOM	3796	HB	VAL	X	251	47.819	45.242	70.552	0.00	0.00
ATOM	3797	CG1	VAL	X	251	47.994	47.279	70.568	0.00	0.00
ATOM	3798	HG11	VAL	X	251	47.960	47.469	71.641	0.00	0.00
ATOM	3799	HG12	VAL	X	251	48.740	48.010	70.256	0.00	0.00
ATOM	3800	HG13	VAL	X	251	47.066	47.525	70.051	0.00	0.00
ATOM	3801	CG2	VAL	X	251	48.743	45.754	68.657	0.00	0.00
ATOM	3802	HG21	VAL	X	251	47.767	45.359	68.374	0.00	0.00
ATOM	3803	HG22	VAL	X	251	49.033	46.723	68.250	0.00	0.00
ATOM	3804	HG23	VAL	X	251	49.367	44.904	68.382	0.00	0.00
ATOM	3805	C	VAL	X	251	50.148	46.118	72.266	0.00	0.00
ATOM	3806	O	VAL	X	251	50.675	47.218	72.469	0.00	0.00
ATOM	3807	N	GLY	X	252	49.612	45.339	73.237	0.00	0.00
ATOM	3808	H	GLY	X	252	49.164	44.497	72.907	0.00	0.00
ATOM	3809	CA	GLY	X	252	49.823	45.529	74.650	0.00	0.00
ATOM	3810	HA2	GLY	X	252	49.947	44.539	75.289	0.00	0.00
ATOM	3811	HA3	GLY	X	252	50.710	46.112	74.738	0.00	0.00
ATOM	3812	C	GLY	X	252	48.566	46.178	75.308	0.00	0.00
ATOM	3813	O	GLY	X	252	48.614	47.189	75.953	0.00	0.00
ATOM	3814	N	CYX	X	253	47.443	45.497	75.015	0.00	0.00
ATOM	3815	H	CYX	X	253	47.589	44.729	74.376	0.00	0.00
ATOM	3816	CA	CYX	X	253	46.028	45.928	75.377	0.00	0.00
ATOM	3817	HA	CYX	X	253	45.976	46.899	75.871	0.00	0.00
ATOM	3818	CB	CYX	X	253	45.204	46.075	74.059	0.00	0.00
ATOM	3819	HB2	CYX	X	253	45.403	45.134	73.546	0.00	0.00
ATOM	3820	HB3	CYX	X	253	44.125	46.063	74.211	0.00	0.00
ATOM	3821	SG	CYX	X	253	45.436	47.514	73.033	0.00	0.00
ATOM	3822	C	CYX	X	253	45.130	44.975	76.285	0.00	0.00
ATOM	3823	O	CYX	X	253	44.723	43.880	75.837	0.00	0.00
ATOM	3824	N	PRO	X	254	44.748	45.447	77.546	0.00	0.00
ATOM	3825	CD	PRO	X	254	43.786	44.728	78.322	0.00	0.00
ATOM	3826	HD2	PRO	X	254	44.093	43.683	78.367	0.00	0.00
ATOM	3827	HD3	PRO	X	254	42.745	44.828	78.014	0.00	0.00
ATOM	3828	CG	PRO	X	254	43.979	45.182	79.738	0.00	0.00
ATOM	3829	HG2	PRO	X	254	44.863	44.725	80.183	0.00	0.00
ATOM	3830	HG3	PRO	X	254	43.135	45.007	80.405	0.00	0.00
ATOM	3831	CB	PRO	X	254	44.355	46.659	79.540	0.00	0.00
ATOM	3832	HB2	PRO	X	254	44.863	47.134	80.379	0.00	0.00
ATOM	3833	HB3	PRO	X	254	43.472	47.223	79.238	0.00	0.00
ATOM	3834	CA	PRO	X	254	45.191	46.610	78.235	0.00	0.00
ATOM	3835	HA	PRO	X	254	44.981	47.546	77.717	0.00	0.00
ATOM	3836	C	PRO	X	254	46.684	46.626	78.532	0.00	0.00
ATOM	3837	O	PRO	X	254	47.312	45.604	78.448	0.00	0.00
ATOM	3838	N	PRO	X	255	47.273	47.789	78.862	0.00	0.00
ATOM	3839	CD	PRO	X	255	46.684	49.136	78.839	0.00	0.00
ATOM	3840	HD2	PRO	X	255	45.654	49.124	79.194	0.00	0.00
ATOM	3841	HD3	PRO	X	255	46.848	49.591	77.862	0.00	0.00
ATOM	3842	CG	PRO	X	255	47.405	49.991	79.836	0.00	0.00
ATOM	3843	HG2	PRO	X	255	46.811	49.930	80.748	0.00	0.00
ATOM	3844	HG3	PRO	X	255	47.369	50.960	79.339	0.00	0.00
ATOM	3845	CB	PRO	X	255	48.811	49.457	79.918	0.00	0.00
ATOM	3846	HB2	PRO	X	255	49.215	49.556	80.926	0.00	0.00
ATOM	3847	HB3	PRO	X	255	49.471	50.001	79.243	0.00	0.00
ATOM	3848	CA	PRO	X	255	48.562	47.957	79.522	0.00	0.00
ATOM	3849	HA	PRO	X	255	49.351	47.616	78.851	0.00	0.00
ATOM	3850	C	PRO	X	255	48.581	47.123	80.827	0.00	0.00
ATOM	3851	O	PRO	X	255	47.722	47.298	81.740	0.00	0.00
ATOM	3852	N	GLY	X	256	49.394	46.057	80.829	0.00	0.00
ATOM	3853	H	GLY	X	256	49.951	45.871	80.008	0.00	0.00
ATOM	3854	CA	GLY	X	256	49.604	45.276	82.100	0.00	0.00
ATOM	3855	HA2	GLY	X	256	50.633	44.829	82.127	0.00	0.00
ATOM	3856	HA3	GLY	X	256	49.485	45.837	82.948	0.00	0.00
ATOM	3857	C	GLY	X	256	48.609	44.153	82.247	0.00	0.00

ATOM	3858	O	GLY	X	256	48.517	43.664	83.363	0.00	0.00
ATOM	3859	N	GLY	X	257	47.907	43.742	81.156	0.00	0.00
ATOM	3860	H	GLY	X	257	47.849	44.346	80.349	0.00	0.00
ATOM	3861	CA	GLY	X	257	46.826	42.698	81.123	0.00	0.00
ATOM	3862	HA2	GLY	X	257	47.072	41.879	81.875	0.00	0.00
ATOM	3863	HA3	GLY	X	257	45.916	43.210	81.469	0.00	0.00
ATOM	3864	C	GLY	X	257	46.616	41.962	79.787	0.00	0.00
ATOM	3865	O	GLY	X	257	47.481	42.082	78.946	0.00	0.00
ATOM	3866	N	THR	X	258	45.518	41.280	79.564	0.00	0.00
ATOM	3867	H	THR	X	258	44.813	41.378	80.280	0.00	0.00
ATOM	3868	CA	THR	X	258	45.080	40.748	78.202	0.00	0.00
ATOM	3869	HA	THR	X	258	45.610	41.314	77.436	0.00	0.00
ATOM	3870	CB	THR	X	258	45.467	39.300	78.019	0.00	0.00
ATOM	3871	HB	THR	X	258	45.028	38.932	77.092	0.00	0.00
ATOM	3872	CG2	THR	X	258	46.978	39.088	77.846	0.00	0.00
ATOM	3873	HG21	THR	X	258	47.506	39.222	78.790	0.00	0.00
ATOM	3874	HG22	THR	X	258	47.183	38.088	77.465	0.00	0.00
ATOM	3875	HG23	THR	X	258	47.412	39.829	77.174	0.00	0.00
ATOM	3876	OG1	THR	X	258	44.910	38.539	79.026	0.00	0.00
ATOM	3877	HG1	THR	X	258	45.167	37.614	79.016	0.00	0.00
ATOM	3878	C	THR	X	258	43.641	40.909	78.062	0.00	0.00
ATOM	3879	O	THR	X	258	42.943	40.994	79.068	0.00	0.00
ATOM	3880	N	GLY	X	259	43.256	41.029	76.762	0.00	0.00
ATOM	3881	H	GLY	X	259	43.971	41.132	76.056	0.00	0.00
ATOM	3882	CA	GLY	X	259	41.920	41.272	76.267	0.00	0.00
ATOM	3883	HA2	GLY	X	259	41.611	42.260	76.643	0.00	0.00
ATOM	3884	HA3	GLY	X	259	41.795	41.060	75.144	0.00	0.00
ATOM	3885	C	GLY	X	259	40.891	40.264	76.780	0.00	0.00
ATOM	3886	O	GLY	X	259	40.951	39.095	76.384	0.00	0.00
ATOM	3887	N	GLY	X	260	39.853	40.723	77.495	0.00	0.00
ATOM	3888	H	GLY	X	260	40.031	41.716	77.550	0.00	0.00
ATOM	3889	CA	GLY	X	260	38.555	40.063	77.798	0.00	0.00
ATOM	3890	HA2	GLY	X	260	38.598	39.016	77.753	0.00	0.00
ATOM	3891	HA3	GLY	X	260	38.297	40.329	78.804	0.00	0.00
ATOM	3892	C	GLY	X	260	37.431	40.372	76.812	0.00	0.00
ATOM	3893	O	GLY	X	260	37.326	39.769	75.754	0.00	0.00
ATOM	3894	N	ASN	X	261	36.582	41.307	77.202	0.00	0.00
ATOM	3895	H	ASN	X	261	36.755	41.775	78.080	0.00	0.00
ATOM	3896	CA	ASN	X	261	35.526	41.822	76.440	0.00	0.00
ATOM	3897	HA	ASN	X	261	34.840	41.000	76.236	0.00	0.00
ATOM	3898	CB	ASN	X	261	34.747	42.896	77.315	0.00	0.00
ATOM	3899	HB2	ASN	X	261	34.318	42.452	78.214	0.00	0.00
ATOM	3900	HB3	ASN	X	261	35.435	43.702	77.568	0.00	0.00
ATOM	3901	CG	ASN	X	261	33.539	43.541	76.595	0.00	0.00
ATOM	3902	OD1	ASN	X	261	33.649	44.557	75.913	0.00	0.00
ATOM	3903	ND2	ASN	X	261	32.482	42.854	76.451	0.00	0.00
ATOM	3904	HD21	ASN	X	261	31.636	43.272	76.093	0.00	0.00
ATOM	3905	HD22	ASN	X	261	32.379	41.953	76.897	0.00	0.00
ATOM	3906	C	ASN	X	261	35.949	42.417	75.050	0.00	0.00
ATOM	3907	O	ASN	X	261	36.776	43.358	75.081	0.00	0.00
ATOM	3908	N	ASP	X	262	35.334	42.057	73.970	0.00	0.00
ATOM	3909	H	ASP	X	262	34.760	41.243	74.139	0.00	0.00
ATOM	3910	CA	ASP	X	262	35.479	42.543	72.633	0.00	0.00
ATOM	3911	HA	ASP	X	262	36.415	42.161	72.226	0.00	0.00
ATOM	3912	CB	ASP	X	262	34.364	41.864	71.747	0.00	0.00
ATOM	3913	HB2	ASP	X	262	33.338	42.101	72.032	0.00	0.00
ATOM	3914	HB3	ASP	X	262	34.428	42.151	70.698	0.00	0.00
ATOM	3915	CG	ASP	X	262	34.487	40.325	71.958	0.00	0.00
ATOM	3916	OD1	ASP	X	262	34.066	39.689	72.938	0.00	0.00
ATOM	3917	OD2	ASP	X	262	35.116	39.655	71.162	0.00	0.00
ATOM	3918	C	ASP	X	262	35.460	44.039	72.407	0.00	0.00
ATOM	3919	O	ASP	X	262	36.222	44.553	71.611	0.00	0.00
ATOM	3920	N	THR	X	263	34.566	44.737	73.058	0.00	0.00
ATOM	3921	H	THR	X	263	33.969	44.240	73.703	0.00	0.00
ATOM	3922	CA	THR	X	263	34.395	46.252	72.980	0.00	0.00
ATOM	3923	HA	THR	X	263	34.478	46.470	71.915	0.00	0.00
ATOM	3924	CB	THR	X	263	33.088	46.844	73.472	0.00	0.00
ATOM	3925	HB	THR	X	263	32.938	47.804	72.978	0.00	0.00
ATOM	3926	CG2	THR	X	263	31.771	46.037	73.177	0.00	0.00
ATOM	3927	HG21	THR	X	263	31.562	45.836	72.126	0.00	0.00

ATOM	3928	HG22	THR	X	263	31.861	45.019	73.556	0.00	0.00
ATOM	3929	HG23	THR	X	263	30.896	46.490	73.642	0.00	0.00
ATOM	3930	OG1	THR	X	263	33.202	47.132	74.877	0.00	0.00
ATOM	3931	HG1	THR	X	263	33.181	46.286	75.330	0.00	0.00
ATOM	3932	C	THR	X	263	35.519	47.052	73.638	0.00	0.00
ATOM	3933	O	THR	X	263	35.941	48.084	73.171	0.00	0.00
ATOM	3934	N	GLU	X	264	36.034	46.385	74.664	0.00	0.00
ATOM	3935	H	GLU	X	264	35.608	45.530	74.991	0.00	0.00
ATOM	3936	CA	GLU	X	264	37.244	46.910	75.369	0.00	0.00
ATOM	3937	HA	GLU	X	264	37.068	47.984	75.297	0.00	0.00
ATOM	3938	CB	GLU	X	264	37.295	46.317	76.791	0.00	0.00
ATOM	3939	HB2	GLU	X	264	37.362	45.231	76.734	0.00	0.00
ATOM	3940	HB3	GLU	X	264	38.274	46.558	77.206	0.00	0.00
ATOM	3941	CG	GLU	X	264	36.133	46.745	77.804	0.00	0.00
ATOM	3942	HG2	GLU	X	264	35.151	46.554	77.370	0.00	0.00
ATOM	3943	HG3	GLU	X	264	36.124	46.131	78.705	0.00	0.00
ATOM	3944	CD	GLU	X	264	36.300	48.146	78.292	0.00	0.00
ATOM	3945	OE1	GLU	X	264	36.724	48.408	79.402	0.00	0.00
ATOM	3946	OE2	GLU	X	264	36.147	48.975	77.458	0.00	0.00
ATOM	3947	C	GLU	X	264	38.535	46.611	74.571	0.00	0.00
ATOM	3948	O	GLU	X	264	39.275	47.558	74.286	0.00	0.00
ATOM	3949	N	LEU	X	265	38.702	45.417	73.982	0.00	0.00
ATOM	3950	H	LEU	X	265	38.104	44.657	74.274	0.00	0.00
ATOM	3951	CA	LEU	X	265	39.838	45.090	73.095	0.00	0.00
ATOM	3952	HA	LEU	X	265	40.709	45.236	73.733	0.00	0.00
ATOM	3953	CB	LEU	X	265	39.666	43.642	72.618	0.00	0.00
ATOM	3954	HB2	LEU	X	265	39.715	43.049	73.532	0.00	0.00
ATOM	3955	HB3	LEU	X	265	38.719	43.400	72.136	0.00	0.00
ATOM	3956	CG	LEU	X	265	40.686	43.023	71.644	0.00	0.00
ATOM	3957	HG	LEU	X	265	41.639	43.443	71.966	0.00	0.00
ATOM	3958	CD1	LEU	X	265	40.592	41.508	71.798	0.00	0.00
ATOM	3959	HD11	LEU	X	265	41.146	40.894	71.087	0.00	0.00
ATOM	3960	HD12	LEU	X	265	40.840	41.276	72.834	0.00	0.00
ATOM	3961	HD13	LEU	X	265	39.549	41.246	71.622	0.00	0.00
ATOM	3962	CD2	LEU	X	265	40.375	43.351	70.077	0.00	0.00
ATOM	3963	HD21	LEU	X	265	41.071	42.770	69.472	0.00	0.00
ATOM	3964	HD22	LEU	X	265	39.349	43.043	69.876	0.00	0.00
ATOM	3965	HD23	LEU	X	265	40.531	44.429	70.023	0.00	0.00
ATOM	3966	C	LEU	X	265	39.992	46.031	71.918	0.00	0.00
ATOM	3967	O	LEU	X	265	41.070	46.600	71.637	0.00	0.00
ATOM	3968	N	VAL	X	266	38.927	46.254	71.140	0.00	0.00
ATOM	3969	H	VAL	X	266	38.097	45.711	71.330	0.00	0.00
ATOM	3970	CA	VAL	X	266	39.001	47.111	69.960	0.00	0.00
ATOM	3971	HA	VAL	X	266	39.811	46.727	69.340	0.00	0.00
ATOM	3972	CB	VAL	X	266	37.659	46.910	69.084	0.00	0.00
ATOM	3973	HB	VAL	X	266	37.519	45.831	69.021	0.00	0.00
ATOM	3974	CG1	VAL	X	266	36.395	47.458	69.735	0.00	0.00
ATOM	3975	HG11	VAL	X	266	36.495	48.543	69.763	0.00	0.00
ATOM	3976	HG12	VAL	X	266	35.531	47.083	69.187	0.00	0.00
ATOM	3977	HG13	VAL	X	266	36.328	47.009	70.726	0.00	0.00
ATOM	3978	CG2	VAL	X	266	37.747	47.626	67.684	0.00	0.00
ATOM	3979	HG21	VAL	X	266	38.553	47.183	67.098	0.00	0.00
ATOM	3980	HG22	VAL	X	266	36.842	47.373	67.132	0.00	0.00
ATOM	3981	HG23	VAL	X	266	37.669	48.710	67.768	0.00	0.00
ATOM	3982	C	VAL	X	266	39.270	48.543	70.232	0.00	0.00
ATOM	3983	O	VAL	X	266	39.879	49.265	69.417	0.00	0.00
ATOM	3984	N	ALA	X	267	38.917	48.984	71.397	0.00	0.00
ATOM	3985	H	ALA	X	267	38.477	48.357	72.055	0.00	0.00
ATOM	3986	CA	ALA	X	267	39.007	50.378	71.791	0.00	0.00
ATOM	3987	HA	ALA	X	267	38.727	50.882	70.866	0.00	0.00
ATOM	3988	CB	ALA	X	267	37.980	50.725	72.885	0.00	0.00
ATOM	3989	HB1	ALA	X	267	38.068	51.772	73.175	0.00	0.00
ATOM	3990	HB2	ALA	X	267	36.992	50.523	72.472	0.00	0.00
ATOM	3991	HB3	ALA	X	267	38.114	50.159	73.808	0.00	0.00
ATOM	3992	C	ALA	X	267	40.476	50.746	72.118	0.00	0.00
ATOM	3993	O	ALA	X	267	40.956	51.709	71.683	0.00	0.00
ATOM	3994	N	CYX	X	268	41.202	49.818	72.792	0.00	0.00
ATOM	3995	H	CYX	X	268	40.726	48.977	73.087	0.00	0.00
ATOM	3996	CA	CYX	X	268	42.648	49.894	72.945	0.00	0.00
ATOM	3997	HA	CYX	X	268	42.870	50.871	73.374	0.00	0.00

ATOM	3998	CB	CYX	X	268	43.133	48.892	73.945	0.00	0.00
ATOM	3999	HB2	CYX	X	268	42.681	49.097	74.915	0.00	0.00
ATOM	4000	HB3	CYX	X	268	42.927	47.884	73.584	0.00	0.00
ATOM	4001	SG	CYX	X	268	44.878	48.931	74.269	0.00	0.00
ATOM	4002	C	CYX	X	268	43.364	49.878	71.552	0.00	0.00
ATOM	4003	O	CYX	X	268	44.153	50.732	71.276	0.00	0.00
ATOM	4004	N	LEU	X	269	42.960	48.913	70.669	0.00	0.00
ATOM	4005	H	LEU	X	269	42.527	48.081	71.044	0.00	0.00
ATOM	4006	CA	LEU	X	269	43.391	48.989	69.201	0.00	0.00
ATOM	4007	HA	LEU	X	269	44.480	48.972	69.169	0.00	0.00
ATOM	4008	CB	LEU	X	269	42.941	47.710	68.502	0.00	0.00
ATOM	4009	HB2	LEU	X	269	41.907	47.459	68.742	0.00	0.00
ATOM	4010	HB3	LEU	X	269	42.996	47.797	67.417	0.00	0.00
ATOM	4011	CG	LEU	X	269	43.872	46.521	68.839	0.00	0.00
ATOM	4012	HG	LEU	X	269	44.876	46.944	68.791	0.00	0.00
ATOM	4013	CD1	LEU	X	269	43.672	45.885	70.236	0.00	0.00
ATOM	4014	HD11	LEU	X	269	43.629	46.600	71.058	0.00	0.00
ATOM	4015	HD12	LEU	X	269	42.827	45.197	70.193	0.00	0.00
ATOM	4016	HD13	LEU	X	269	44.513	45.228	70.457	0.00	0.00
ATOM	4017	CD2	LEU	X	269	43.711	45.423	67.792	0.00	0.00
ATOM	4018	HD21	LEU	X	269	42.719	44.971	67.774	0.00	0.00
ATOM	4019	HD22	LEU	X	269	43.994	45.778	66.801	0.00	0.00
ATOM	4020	HD23	LEU	X	269	44.428	44.648	68.061	0.00	0.00
ATOM	4021	C	LEU	X	269	43.027	50.265	68.488	0.00	0.00
ATOM	4022	O	LEU	X	269	43.609	50.451	67.389	0.00	0.00
ATOM	4023	N	ARG	X	270	42.208	51.146	68.996	0.00	0.00
ATOM	4024	H	ARG	X	270	41.671	50.740	69.749	0.00	0.00
ATOM	4025	CA	ARG	X	270	41.867	52.491	68.506	0.00	0.00
ATOM	4026	HA	ARG	X	270	42.157	52.441	67.456	0.00	0.00
ATOM	4027	CB	ARG	X	270	40.334	52.872	68.584	0.00	0.00
ATOM	4028	HB2	ARG	X	270	40.023	52.657	69.607	0.00	0.00
ATOM	4029	HB3	ARG	X	270	40.164	53.943	68.474	0.00	0.00
ATOM	4030	CG	ARG	X	270	39.544	52.153	67.407	0.00	0.00
ATOM	4031	HG2	ARG	X	270	40.110	52.476	66.533	0.00	0.00
ATOM	4032	HG3	ARG	X	270	39.529	51.063	67.411	0.00	0.00
ATOM	4033	CD	ARG	X	270	38.112	52.831	67.341	0.00	0.00
ATOM	4034	HD2	ARG	X	270	38.189	53.813	67.809	0.00	0.00
ATOM	4035	HD3	ARG	X	270	37.847	52.980	66.294	0.00	0.00
ATOM	4036	NE	ARG	X	270	37.089	52.002	67.895	0.00	0.00
ATOM	4037	HE	ARG	X	270	36.930	52.224	68.868	0.00	0.00
ATOM	4038	CZ	ARG	X	270	36.264	51.099	67.321	0.00	0.00
ATOM	4039	NH1	ARG	X	270	36.272	50.824	66.032	0.00	0.00
ATOM	4040	HH11	ARG	X	270	36.986	51.300	65.499	0.00	0.00
ATOM	4041	HH12	ARG	X	270	35.515	50.248	65.692	0.00	0.00
ATOM	4042	NH2	ARG	X	270	35.311	50.502	68.054	0.00	0.00
ATOM	4043	HH21	ARG	X	270	35.145	50.675	69.036	0.00	0.00
ATOM	4044	HH22	ARG	X	270	34.574	50.003	67.577	0.00	0.00
ATOM	4045	C	ARG	X	270	42.789	53.492	69.234	0.00	0.00
ATOM	4046	O	ARG	X	270	43.241	54.436	68.551	0.00	0.00
ATOM	4047	N	THR	X	271	43.063	53.319	70.545	0.00	0.00
ATOM	4048	H	THR	X	271	42.588	52.562	71.017	0.00	0.00
ATOM	4049	CA	THR	X	271	43.980	54.094	71.427	0.00	0.00
ATOM	4050	HA	THR	X	271	43.759	55.161	71.455	0.00	0.00
ATOM	4051	CB	THR	X	271	43.906	53.674	72.882	0.00	0.00
ATOM	4052	HB	THR	X	271	44.218	52.631	72.947	0.00	0.00
ATOM	4053	CG2	THR	X	271	44.964	54.487	73.686	0.00	0.00
ATOM	4054	HG21	THR	X	271	44.648	54.278	74.708	0.00	0.00
ATOM	4055	HG22	THR	X	271	45.921	53.969	73.749	0.00	0.00
ATOM	4056	HG23	THR	X	271	45.235	55.502	73.398	0.00	0.00
ATOM	4057	OG1	THR	X	271	42.540	53.812	73.282	0.00	0.00
ATOM	4058	HG1	THR	X	271	42.361	53.375	74.117	0.00	0.00
ATOM	4059	C	THR	X	271	45.425	54.100	70.879	0.00	0.00
ATOM	4060	O	THR	X	271	45.927	55.170	70.493	0.00	0.00
ATOM	4061	N	ARG	X	272	46.130	52.952	70.758	0.00	0.00
ATOM	4062	H	ARG	X	272	45.662	52.110	71.060	0.00	0.00
ATOM	4063	CA	ARG	X	272	47.508	52.841	70.332	0.00	0.00
ATOM	4064	HA	ARG	X	272	47.986	53.576	70.979	0.00	0.00
ATOM	4065	CB	ARG	X	272	48.154	51.401	70.742	0.00	0.00
ATOM	4066	HB2	ARG	X	272	47.966	50.693	69.934	0.00	0.00
ATOM	4067	HB3	ARG	X	272	49.223	51.591	70.647	0.00	0.00

ATOM	4068	CG	ARG	X	272	47.825	50.779	72.079	0.00	0.00
ATOM	4069	HG2	ARG	X	272	46.773	50.497	72.093	0.00	0.00
ATOM	4070	HG3	ARG	X	272	48.396	49.865	72.246	0.00	0.00
ATOM	4071	CD	ARG	X	272	48.396	51.712	73.188	0.00	0.00
ATOM	4072	HD2	ARG	X	272	49.362	52.097	72.863	0.00	0.00
ATOM	4073	HD3	ARG	X	272	47.741	52.580	73.263	0.00	0.00
ATOM	4074	NE	ARG	X	272	48.441	51.106	74.532	0.00	0.00
ATOM	4075	HE	ARG	X	272	47.598	51.182	75.085	0.00	0.00
ATOM	4076	CZ	ARG	X	272	49.577	50.625	75.106	0.00	0.00
ATOM	4077	NH1	ARG	X	272	50.608	50.157	74.468	0.00	0.00
ATOM	4078	HH11	ARG	X	272	50.656	50.193	73.460	0.00	0.00
ATOM	4079	HH12	ARG	X	272	51.481	49.898	74.905	0.00	0.00
ATOM	4080	NH2	ARG	X	272	49.609	50.543	76.388	0.00	0.00
ATOM	4081	HH21	ARG	X	272	48.791	50.735	76.948	0.00	0.00
ATOM	4082	HH22	ARG	X	272	50.253	49.924	76.860	0.00	0.00
ATOM	4083	C	ARG	X	272	47.752	53.128	68.795	0.00	0.00
ATOM	4084	O	ARG	X	272	46.943	52.640	68.069	0.00	0.00
ATOM	4085	N	PRO	X	273	48.849	53.825	68.461	0.00	0.00
ATOM	4086	CD	PRO	X	273	49.944	54.159	69.314	0.00	0.00
ATOM	4087	HD2	PRO	X	273	50.611	53.311	69.471	0.00	0.00
ATOM	4088	HD3	PRO	X	273	49.586	54.535	70.272	0.00	0.00
ATOM	4089	CG	PRO	X	273	50.713	55.236	68.531	0.00	0.00
ATOM	4090	HG2	PRO	X	273	51.781	55.234	68.749	0.00	0.00
ATOM	4091	HG3	PRO	X	273	50.249	56.191	68.778	0.00	0.00
ATOM	4092	CB	PRO	X	273	50.344	54.955	67.057	0.00	0.00
ATOM	4093	HB2	PRO	X	273	51.104	54.387	66.521	0.00	0.00
ATOM	4094	HB3	PRO	X	273	50.114	55.840	66.463	0.00	0.00
ATOM	4095	CA	PRO	X	273	49.087	54.141	67.079	0.00	0.00
ATOM	4096	HA	PRO	X	273	48.171	54.663	66.801	0.00	0.00
ATOM	4097	C	PRO	X	273	49.205	53.011	66.085	0.00	0.00
ATOM	4098	O	PRO	X	273	49.758	52.001	66.349	0.00	0.00
ATOM	4099	N	ALA	X	274	48.506	53.104	64.940	0.00	0.00
ATOM	4100	H	ALA	X	274	48.031	53.993	64.869	0.00	0.00
ATOM	4101	CA	ALA	X	274	48.503	52.215	63.823	0.00	0.00
ATOM	4102	HA	ALA	X	274	47.809	51.394	64.004	0.00	0.00
ATOM	4103	CB	ALA	X	274	47.971	53.130	62.654	0.00	0.00
ATOM	4104	HB1	ALA	X	274	48.009	52.627	61.687	0.00	0.00
ATOM	4105	HB2	ALA	X	274	46.954	53.372	62.963	0.00	0.00
ATOM	4106	HB3	ALA	X	274	48.533	54.045	62.470	0.00	0.00
ATOM	4107	C	ALA	X	274	49.871	51.570	63.424	0.00	0.00
ATOM	4108	O	ALA	X	274	49.932	50.377	63.162	0.00	0.00
ATOM	4109	N	GLN	X	275	50.960	52.312	63.603	0.00	0.00
ATOM	4110	H	GLN	X	275	50.852	53.300	63.782	0.00	0.00
ATOM	4111	CA	GLN	X	275	52.359	51.803	63.287	0.00	0.00
ATOM	4112	HA	GLN	X	275	52.380	51.461	62.252	0.00	0.00
ATOM	4113	CB	GLN	X	275	53.317	52.983	63.391	0.00	0.00
ATOM	4114	HB2	GLN	X	275	52.956	53.552	64.247	0.00	0.00
ATOM	4115	HB3	GLN	X	275	54.316	52.547	63.355	0.00	0.00
ATOM	4116	CG	GLN	X	275	53.230	53.988	62.203	0.00	0.00
ATOM	4117	HG2	GLN	X	275	52.223	53.973	61.785	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.410	55.025	62.489	0.00	0.00
ATOM	4119	CD	GLN	X	275	54.072	53.573	60.992	0.00	0.00
ATOM	4120	OE1	GLN	X	275	54.451	52.419	60.840	0.00	0.00
ATOM	4121	NE2	GLN	X	275	54.373	54.477	60.067	0.00	0.00
ATOM	4122	HE21	GLN	X	275	54.931	54.190	59.275	0.00	0.00
ATOM	4123	HE22	GLN	X	275	54.152	55.434	60.302	0.00	0.00
ATOM	4124	C	GLN	X	275	52.784	50.591	64.175	0.00	0.00
ATOM	4125	O	GLN	X	275	53.596	49.792	63.768	0.00	0.00
ATOM	4126	N	VAL	X	276	52.157	50.491	65.390	0.00	0.00
ATOM	4127	H	VAL	X	276	51.582	51.262	65.698	0.00	0.00
ATOM	4128	CA	VAL	X	276	52.439	49.409	66.380	0.00	0.00
ATOM	4129	HA	VAL	X	276	53.480	49.166	66.589	0.00	0.00
ATOM	4130	CB	VAL	X	276	51.756	49.779	67.763	0.00	0.00
ATOM	4131	HB	VAL	X	276	50.681	49.902	67.632	0.00	0.00
ATOM	4132	CG1	VAL	X	276	51.998	48.682	68.806	0.00	0.00
ATOM	4133	HG11	VAL	X	276	51.461	48.958	69.714	0.00	0.00
ATOM	4134	HG12	VAL	X	276	51.576	47.728	68.491	0.00	0.00
ATOM	4135	HG13	VAL	X	276	53.046	48.530	69.063	0.00	0.00
ATOM	4136	CG2	VAL	X	276	52.202	51.052	68.337	0.00	0.00
ATOM	4137	HG21	VAL	X	276	52.251	51.809	67.554	0.00	0.00

ATOM	4138	HG22	VAL	X	276	51.466	51.451	69.035	0.00	0.00
ATOM	4139	HG23	VAL	X	276	53.163	50.882	68.821	0.00	0.00
ATOM	4140	C	VAL	X	276	51.668	48.227	65.828	0.00	0.00
ATOM	4141	O	VAL	X	276	52.323	47.198	65.632	0.00	0.00
ATOM	4142	N	LEU	X	277	50.373	48.285	65.436	0.00	0.00
ATOM	4143	H	LEU	X	277	49.873	49.152	65.568	0.00	0.00
ATOM	4144	CA	LEU	X	277	49.537	47.204	64.907	0.00	0.00
ATOM	4145	HA	LEU	X	277	49.513	46.374	65.613	0.00	0.00
ATOM	4146	CB	LEU	X	277	48.133	47.683	64.620	0.00	0.00
ATOM	4147	HB2	LEU	X	277	48.199	48.661	64.143	0.00	0.00
ATOM	4148	HB3	LEU	X	277	47.697	46.883	64.022	0.00	0.00
ATOM	4149	CG	LEU	X	277	47.162	47.896	65.830	0.00	0.00
ATOM	4150	HG	LEU	X	277	47.040	46.914	66.286	0.00	0.00
ATOM	4151	CD1	LEU	X	277	47.494	49.055	66.773	0.00	0.00
ATOM	4152	HD11	LEU	X	277	48.306	48.811	67.457	0.00	0.00
ATOM	4153	HD12	LEU	X	277	47.778	49.950	66.219	0.00	0.00
ATOM	4154	HD13	LEU	X	277	46.665	49.250	67.454	0.00	0.00
ATOM	4155	CD2	LEU	X	277	45.825	48.201	65.222	0.00	0.00
ATOM	4156	HD21	LEU	X	277	46.028	49.005	64.515	0.00	0.00
ATOM	4157	HD22	LEU	X	277	45.461	47.355	64.640	0.00	0.00
ATOM	4158	HD23	LEU	X	277	45.093	48.418	66.000	0.00	0.00
ATOM	4159	C	LEU	X	277	50.156	46.642	63.548	0.00	0.00
ATOM	4160	O	LEU	X	277	50.262	45.459	63.323	0.00	0.00
ATOM	4161	N	VAL	X	278	50.437	47.575	62.614	0.00	0.00
ATOM	4162	H	VAL	X	278	50.282	48.546	62.847	0.00	0.00
ATOM	4163	CA	VAL	X	278	50.709	47.148	61.234	0.00	0.00
ATOM	4164	HA	VAL	X	278	49.903	46.499	60.890	0.00	0.00
ATOM	4165	CB	VAL	X	278	50.724	48.354	60.315	0.00	0.00
ATOM	4166	HB	VAL	X	278	49.829	48.919	60.577	0.00	0.00
ATOM	4167	CG1	VAL	X	278	51.992	49.263	60.498	0.00	0.00
ATOM	4168	HG11	VAL	X	278	51.950	50.148	59.863	0.00	0.00
ATOM	4169	HG12	VAL	X	278	52.095	49.502	61.557	0.00	0.00
ATOM	4170	HG13	VAL	X	278	52.931	48.733	60.339	0.00	0.00
ATOM	4171	CG2	VAL	X	278	50.626	47.986	58.880	0.00	0.00
ATOM	4172	HG21	VAL	X	278	49.950	47.146	58.718	0.00	0.00
ATOM	4173	HG22	VAL	X	278	50.240	48.902	58.434	0.00	0.00
ATOM	4174	HG23	VAL	X	278	51.608	47.781	58.453	0.00	0.00
ATOM	4175	C	VAL	X	278	51.949	46.300	61.108	0.00	0.00
ATOM	4176	O	VAL	X	278	52.094	45.546	60.168	0.00	0.00
ATOM	4177	N	ASN	X	279	52.939	46.403	62.079	0.00	0.00
ATOM	4178	H	ASN	X	279	52.742	46.947	62.907	0.00	0.00
ATOM	4179	CA	ASN	X	279	54.101	45.455	61.992	0.00	0.00
ATOM	4180	HA	ASN	X	279	54.551	45.534	61.002	0.00	0.00
ATOM	4181	CB	ASN	X	279	55.088	45.902	63.070	0.00	0.00
ATOM	4182	HB2	ASN	X	279	55.203	46.956	62.817	0.00	0.00
ATOM	4183	HB3	ASN	X	279	54.628	45.923	64.058	0.00	0.00
ATOM	4184	CG	ASN	X	279	56.379	45.134	62.990	0.00	0.00
ATOM	4185	OD1	ASN	X	279	56.460	43.974	63.318	0.00	0.00
ATOM	4186	ND2	ASN	X	279	57.480	45.776	62.605	0.00	0.00
ATOM	4187	HD21	ASN	X	279	58.362	45.285	62.558	0.00	0.00
ATOM	4188	HD22	ASN	X	279	57.391	46.776	62.490	0.00	0.00
ATOM	4189	C	ASN	X	279	53.564	44.026	62.199	0.00	0.00
ATOM	4190	O	ASN	X	279	53.872	43.075	61.460	0.00	0.00
ATOM	4191	N	HIE	X	280	52.589	43.860	63.151	0.00	0.00
ATOM	4192	H	HIE	X	280	52.204	44.720	63.513	0.00	0.00
ATOM	4193	CA	HIE	X	280	52.202	42.632	63.755	0.00	0.00
ATOM	4194	HA	HIE	X	280	53.069	41.994	63.928	0.00	0.00
ATOM	4195	CB	HIE	X	280	51.574	42.871	65.119	0.00	0.00
ATOM	4196	HB2	HIE	X	280	50.792	43.620	64.998	0.00	0.00
ATOM	4197	HB3	HIE	X	280	51.061	41.955	65.412	0.00	0.00
ATOM	4198	CG	HIE	X	280	52.516	43.297	66.214	0.00	0.00
ATOM	4199	ND1	HIE	X	280	53.743	42.764	66.405	0.00	0.00
ATOM	4200	CE1	HIE	X	280	54.240	43.450	67.470	0.00	0.00
ATOM	4201	HE1	HIE	X	280	55.238	43.343	67.867	0.00	0.00
ATOM	4202	NE2	HIE	X	280	53.422	44.406	67.887	0.00	0.00
ATOM	4203	HE2	HIE	X	280	53.525	44.950	68.732	0.00	0.00
ATOM	4204	CD2	HIE	X	280	52.284	44.314	67.083	0.00	0.00
ATOM	4205	HD2	HIE	X	280	51.438	44.985	67.110	0.00	0.00
ATOM	4206	C	HIE	X	280	51.252	41.823	62.842	0.00	0.00
ATOM	4207	O	HIE	X	280	50.980	40.624	63.144	0.00	0.00

ATOM	4208	N	GLU	X	281	50.893	42.386	61.753	0.00	0.00
ATOM	4209	H	GLU	X	281	51.195	43.349	61.731	0.00	0.00
ATOM	4210	CA	GLU	X	281	50.347	41.737	60.568	0.00	0.00
ATOM	4211	HA	GLU	X	281	49.329	41.451	60.831	0.00	0.00
ATOM	4212	CB	GLU	X	281	50.473	42.668	59.294	0.00	0.00
ATOM	4213	HB2	GLU	X	281	51.490	43.000	59.502	0.00	0.00
ATOM	4214	HB3	GLU	X	281	50.415	42.043	58.402	0.00	0.00
ATOM	4215	CG	GLU	X	281	49.509	43.921	59.306	0.00	0.00
ATOM	4216	HG2	GLU	X	281	49.709	44.433	60.247	0.00	0.00
ATOM	4217	HG3	GLU	X	281	49.780	44.570	58.473	0.00	0.00
ATOM	4218	CD	GLU	X	281	48.034	43.681	59.196	0.00	0.00
ATOM	4219	OE1	GLU	X	281	47.275	44.597	59.648	0.00	0.00
ATOM	4220	OE2	GLU	X	281	47.705	42.636	58.697	0.00	0.00
ATOM	4221	C	GLU	X	281	51.128	40.422	60.322	0.00	0.00
ATOM	4222	O	GLU	X	281	50.580	39.270	60.341	0.00	0.00
ATOM	4223	N	TRP	X	282	52.420	40.460	60.017	0.00	0.00
ATOM	4224	H	TRP	X	282	52.863	41.363	59.922	0.00	0.00
ATOM	4225	CA	TRP	X	282	53.316	39.379	59.522	0.00	0.00
ATOM	4226	HA	TRP	X	282	52.670	38.770	58.890	0.00	0.00
ATOM	4227	CB	TRP	X	282	54.487	39.805	58.650	0.00	0.00
ATOM	4228	HB2	TRP	X	282	54.888	40.768	58.965	0.00	0.00
ATOM	4229	HB3	TRP	X	282	55.275	39.052	58.657	0.00	0.00
ATOM	4230	CG	TRP	X	282	54.180	39.986	57.219	0.00	0.00
ATOM	4231	CD1	TRP	X	282	53.100	40.572	56.661	0.00	0.00
ATOM	4232	HD1	TRP	X	282	52.362	41.009	57.317	0.00	0.00
ATOM	4233	NE1	TRP	X	282	53.169	40.572	55.307	0.00	0.00
ATOM	4234	HE1	TRP	X	282	52.480	41.001	54.706	0.00	0.00
ATOM	4235	CE2	TRP	X	282	54.347	39.964	54.874	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	54.901	39.691	53.648	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	54.427	39.986	52.723	0.00	0.00
ATOM	4238	CH2	TRP	X	282	56.150	38.995	53.593	0.00	0.00
ATOM	4239	HH2	TRP	X	282	56.634	38.716	52.669	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	56.734	38.481	54.813	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	57.536	37.758	54.806	0.00	0.00
ATOM	4242	CE3	TRP	X	282	56.133	38.814	56.008	0.00	0.00
ATOM	4243	HE3	TRP	X	282	56.520	38.490	56.963	0.00	0.00
ATOM	4244	CD2	TRP	X	282	54.963	39.576	56.075	0.00	0.00
ATOM	4245	C	TRP	X	282	53.705	38.356	60.545	0.00	0.00
ATOM	4246	O	TRP	X	282	54.155	37.196	60.271	0.00	0.00
ATOM	4247	N	HIE	X	283	53.407	38.720	61.776	0.00	0.00
ATOM	4248	H	HIE	X	283	53.083	39.676	61.815	0.00	0.00
ATOM	4249	CA	HIE	X	283	53.435	37.916	62.996	0.00	0.00
ATOM	4250	HA	HIE	X	283	54.216	37.178	62.810	0.00	0.00
ATOM	4251	CB	HIE	X	283	53.843	38.825	64.164	0.00	0.00
ATOM	4252	HB2	HIE	X	283	54.833	39.269	64.062	0.00	0.00
ATOM	4253	HB3	HIE	X	283	52.983	39.474	64.329	0.00	0.00
ATOM	4254	CG	HIE	X	283	54.088	37.965	65.356	0.00	0.00
ATOM	4255	ND1	HIE	X	283	53.109	37.330	66.119	0.00	0.00
ATOM	4256	CE1	HIE	X	283	53.792	36.910	67.198	0.00	0.00
ATOM	4257	HE1	HIE	X	283	53.435	36.485	68.124	0.00	0.00
ATOM	4258	NE2	HIE	X	283	55.144	37.176	67.132	0.00	0.00
ATOM	4259	HE2	HIE	X	283	55.865	36.987	67.813	0.00	0.00
ATOM	4260	CD2	HIE	X	283	55.284	37.819	65.939	0.00	0.00
ATOM	4261	HD2	HIE	X	283	56.159	38.393	65.671	0.00	0.00
ATOM	4262	C	HIE	X	283	52.118	37.154	63.325	0.00	0.00
ATOM	4263	O	HIE	X	283	52.089	35.908	63.487	0.00	0.00
ATOM	4264	N	VAL	X	284	50.969	37.824	63.192	0.00	0.00
ATOM	4265	H	VAL	X	284	50.968	38.832	63.131	0.00	0.00
ATOM	4266	CA	VAL	X	284	49.625	37.130	63.253	0.00	0.00
ATOM	4267	HA	VAL	X	284	49.648	36.499	64.141	0.00	0.00
ATOM	4268	CB	VAL	X	284	48.374	37.955	63.607	0.00	0.00
ATOM	4269	HB	VAL	X	284	47.584	37.212	63.724	0.00	0.00
ATOM	4270	CG1	VAL	X	284	48.547	38.634	65.020	0.00	0.00
ATOM	4271	HG11	VAL	X	284	49.355	39.366	65.020	0.00	0.00
ATOM	4272	HG12	VAL	X	284	47.598	39.118	65.250	0.00	0.00
ATOM	4273	HG13	VAL	X	284	48.763	37.800	65.689	0.00	0.00
ATOM	4274	CG2	VAL	X	284	47.859	39.055	62.603	0.00	0.00
ATOM	4275	HG21	VAL	X	284	48.673	39.757	62.424	0.00	0.00
ATOM	4276	HG22	VAL	X	284	47.602	38.732	61.595	0.00	0.00
ATOM	4277	HG23	VAL	X	284	46.998	39.594	62.998	0.00	0.00

ATOM	4278	C	VAL	X	284	49.352	36.210	62.066	0.00	0.00
ATOM	4279	O	VAL	X	284	48.604	35.233	62.203	0.00	0.00
ATOM	4280	N	LEU	X	285	49.981	36.433	60.899	0.00	0.00
ATOM	4281	H	LEU	X	285	50.509	37.292	60.831	0.00	0.00
ATOM	4282	CA	LEU	X	285	50.252	35.442	59.826	0.00	0.00
ATOM	4283	HA	LEU	X	285	49.380	35.253	59.199	0.00	0.00
ATOM	4284	CB	LEU	X	285	51.396	35.957	58.965	0.00	0.00
ATOM	4285	HB2	LEU	X	285	51.268	36.973	58.592	0.00	0.00
ATOM	4286	HB3	LEU	X	285	52.200	36.149	59.676	0.00	0.00
ATOM	4287	CG	LEU	X	285	51.955	35.053	57.833	0.00	0.00
ATOM	4288	HG	LEU	X	285	52.141	34.040	58.191	0.00	0.00
ATOM	4289	CD1	LEU	X	285	50.900	34.854	56.731	0.00	0.00
ATOM	4290	HD11	LEU	X	285	49.916	34.635	57.145	0.00	0.00
ATOM	4291	HD12	LEU	X	285	50.784	35.815	56.229	0.00	0.00
ATOM	4292	HD13	LEU	X	285	51.341	34.108	56.070	0.00	0.00
ATOM	4293	CD2	LEU	X	285	53.209	35.663	57.231	0.00	0.00
ATOM	4294	HD21	LEU	X	285	54.003	35.518	57.964	0.00	0.00
ATOM	4295	HD22	LEU	X	285	53.551	35.090	56.369	0.00	0.00
ATOM	4296	HD23	LEU	X	285	52.985	36.674	56.889	0.00	0.00
ATOM	4297	C	LEU	X	285	50.613	34.097	60.402	0.00	0.00
ATOM	4298	O	LEU	X	285	51.477	34.020	61.294	0.00	0.00
ATOM	4299	N	PRO	X	286	49.880	33.012	59.960	0.00	0.00
ATOM	4300	CD	PRO	X	286	48.590	33.066	59.254	0.00	0.00
ATOM	4301	HD2	PRO	X	286	48.794	33.016	58.185	0.00	0.00
ATOM	4302	HD3	PRO	X	286	47.856	33.861	59.387	0.00	0.00
ATOM	4303	CG	PRO	X	286	47.916	31.774	59.586	0.00	0.00
ATOM	4304	HG2	PRO	X	286	47.247	31.466	58.783	0.00	0.00
ATOM	4305	HG3	PRO	X	286	47.362	31.801	60.524	0.00	0.00
ATOM	4306	CB	PRO	X	286	49.107	30.731	59.778	0.00	0.00
ATOM	4307	HB2	PRO	X	286	49.399	30.286	58.827	0.00	0.00
ATOM	4308	HB3	PRO	X	286	48.859	29.962	60.510	0.00	0.00
ATOM	4309	CA	PRO	X	286	50.231	31.570	60.300	0.00	0.00
ATOM	4310	HA	PRO	X	286	50.226	31.387	61.374	0.00	0.00
ATOM	4311	C	PRO	X	286	51.600	31.114	59.793	0.00	0.00
ATOM	4312	O	PRO	X	286	52.248	31.791	58.993	0.00	0.00
ATOM	4313	N	GLN	X	287	52.046	29.935	60.259	0.00	0.00
ATOM	4314	H	GLN	X	287	51.357	29.374	60.739	0.00	0.00
ATOM	4315	CA	GLN	X	287	53.323	29.292	59.768	0.00	0.00
ATOM	4316	HA	GLN	X	287	53.756	29.865	58.949	0.00	0.00
ATOM	4317	CB	GLN	X	287	54.294	29.375	60.957	0.00	0.00
ATOM	4318	HB2	GLN	X	287	53.832	28.940	61.844	0.00	0.00
ATOM	4319	HB3	GLN	X	287	55.245	28.906	60.706	0.00	0.00
ATOM	4320	CG	GLN	X	287	54.612	30.817	61.286	0.00	0.00
ATOM	4321	HG2	GLN	X	287	53.772	31.479	61.495	0.00	0.00
ATOM	4322	HG3	GLN	X	287	55.109	31.077	62.220	0.00	0.00
ATOM	4323	CD	GLN	X	287	55.479	31.448	60.306	0.00	0.00
ATOM	4324	OE1	GLN	X	287	55.988	30.903	59.320	0.00	0.00
ATOM	4325	NE2	GLN	X	287	55.759	32.674	60.515	0.00	0.00
ATOM	4326	HE21	GLN	X	287	56.218	33.123	59.735	0.00	0.00
ATOM	4327	HE22	GLN	X	287	55.206	33.240	61.142	0.00	0.00
ATOM	4328	C	GLN	X	287	53.013	27.820	59.288	0.00	0.00
ATOM	4329	O	GLN	X	287	51.849	27.501	59.021	0.00	0.00
ATOM	4330	N	GLU	X	288	54.007	27.030	58.909	0.00	0.00
ATOM	4331	H	GLU	X	288	54.902	27.497	58.937	0.00	0.00
ATOM	4332	CA	GLU	X	288	53.872	25.564	58.612	0.00	0.00
ATOM	4333	HA	GLU	X	288	54.894	25.220	58.453	0.00	0.00
ATOM	4334	CB	GLU	X	288	53.250	24.744	59.788	0.00	0.00
ATOM	4335	HB2	GLU	X	288	52.174	24.876	59.673	0.00	0.00
ATOM	4336	HB3	GLU	X	288	53.493	23.682	59.756	0.00	0.00
ATOM	4337	CG	GLU	X	288	53.696	24.995	61.208	0.00	0.00
ATOM	4338	HG2	GLU	X	288	54.777	24.981	61.344	0.00	0.00
ATOM	4339	HG3	GLU	X	288	53.530	26.044	61.451	0.00	0.00
ATOM	4340	CD	GLU	X	288	53.059	24.000	62.182	0.00	0.00
ATOM	4341	OE1	GLU	X	288	52.079	24.504	62.778	0.00	0.00
ATOM	4342	OE2	GLU	X	288	53.609	22.883	62.387	0.00	0.00
ATOM	4343	C	GLU	X	288	53.228	25.271	57.288	0.00	0.00
ATOM	4344	O	GLU	X	288	52.902	24.162	57.018	0.00	0.00
ATOM	4345	N	SER	X	289	52.950	26.262	56.495	0.00	0.00
ATOM	4346	H	SER	X	289	53.023	27.166	56.939	0.00	0.00
ATOM	4347	CA	SER	X	289	52.055	26.099	55.388	0.00	0.00

ATOM	4348	HA	SER	X	289	52.302	25.178	54.861	0.00	0.00
ATOM	4349	CB	SER	X	289	50.632	25.881	56.143	0.00	0.00
ATOM	4350	HB2	SER	X	289	50.722	25.023	56.810	0.00	0.00
ATOM	4351	HB3	SER	X	289	50.459	26.851	56.609	0.00	0.00
ATOM	4352	OG	SER	X	289	49.458	25.688	55.344	0.00	0.00
ATOM	4353	HG	SER	X	289	49.040	24.909	55.717	0.00	0.00
ATOM	4354	C	SER	X	289	52.041	27.293	54.367	0.00	0.00
ATOM	4355	O	SER	X	289	52.503	28.392	54.642	0.00	0.00
ATOM	4356	N	VAL	X	290	51.630	26.943	53.129	0.00	0.00
ATOM	4357	H	VAL	X	290	51.084	26.107	52.976	0.00	0.00
ATOM	4358	CA	VAL	X	290	51.822	27.821	51.963	0.00	0.00
ATOM	4359	HA	VAL	X	290	52.633	28.524	52.154	0.00	0.00
ATOM	4360	CB	VAL	X	290	52.227	27.038	50.702	0.00	0.00
ATOM	4361	HB	VAL	X	290	51.400	26.382	50.431	0.00	0.00
ATOM	4362	CG1	VAL	X	290	52.526	27.919	49.483	0.00	0.00
ATOM	4363	HG11	VAL	X	290	51.570	28.345	49.178	0.00	0.00
ATOM	4364	HG12	VAL	X	290	53.115	28.792	49.764	0.00	0.00
ATOM	4365	HG13	VAL	X	290	53.129	27.385	48.749	0.00	0.00
ATOM	4366	CG2	VAL	X	290	53.421	26.118	50.897	0.00	0.00
ATOM	4367	HG21	VAL	X	290	53.375	25.782	51.933	0.00	0.00
ATOM	4368	HG22	VAL	X	290	53.383	25.253	50.234	0.00	0.00
ATOM	4369	HG23	VAL	X	290	54.245	26.832	50.901	0.00	0.00
ATOM	4370	C	VAL	X	290	50.460	28.558	51.718	0.00	0.00
ATOM	4371	O	VAL	X	290	49.407	28.053	52.203	0.00	0.00
ATOM	4372	N	PHE	X	291	50.487	29.753	51.103	0.00	0.00
ATOM	4373	H	PHE	X	291	51.380	30.068	50.750	0.00	0.00
ATOM	4374	CA	PHE	X	291	49.351	30.533	50.658	0.00	0.00
ATOM	4375	HA	PHE	X	291	49.788	31.301	50.020	0.00	0.00
ATOM	4376	CB	PHE	X	291	48.458	29.648	49.732	0.00	0.00
ATOM	4377	HB2	PHE	X	291	49.052	28.782	49.441	0.00	0.00
ATOM	4378	HB3	PHE	X	291	47.545	29.495	50.308	0.00	0.00
ATOM	4379	CG	PHE	X	291	48.028	30.298	48.510	0.00	0.00
ATOM	4380	CD1	PHE	X	291	47.538	31.613	48.507	0.00	0.00
ATOM	4381	HD1	PHE	X	291	47.650	32.191	49.413	0.00	0.00
ATOM	4382	CE1	PHE	X	291	47.101	32.288	47.367	0.00	0.00
ATOM	4383	HE1	PHE	X	291	46.756	33.311	47.416	0.00	0.00
ATOM	4384	CZ	PHE	X	291	47.180	31.640	46.088	0.00	0.00
ATOM	4385	HZ	PHE	X	291	46.891	32.103	45.156	0.00	0.00
ATOM	4386	CE2	PHE	X	291	47.696	30.318	46.076	0.00	0.00
ATOM	4387	HE2	PHE	X	291	47.895	29.689	45.220	0.00	0.00
ATOM	4388	CD2	PHE	X	291	48.042	29.576	47.255	0.00	0.00
ATOM	4389	HD2	PHE	X	291	48.473	28.587	47.211	0.00	0.00
ATOM	4390	C	PHE	X	291	48.660	31.251	51.818	0.00	0.00
ATOM	4391	O	PHE	X	291	47.484	31.452	51.858	0.00	0.00
ATOM	4392	N	ARG	X	292	49.368	31.559	52.939	0.00	0.00
ATOM	4393	H	ARG	X	292	50.378	31.534	52.929	0.00	0.00
ATOM	4394	CA	ARG	X	292	48.834	32.226	54.196	0.00	0.00
ATOM	4395	HA	ARG	X	292	47.793	31.958	54.379	0.00	0.00
ATOM	4396	CB	ARG	X	292	49.589	31.692	55.408	0.00	0.00
ATOM	4397	HB2	ARG	X	292	50.572	32.130	55.584	0.00	0.00
ATOM	4398	HB3	ARG	X	292	49.030	31.949	56.307	0.00	0.00
ATOM	4399	CG	ARG	X	292	49.792	30.162	55.468	0.00	0.00
ATOM	4400	HG2	ARG	X	292	50.301	29.768	54.588	0.00	0.00
ATOM	4401	HG3	ARG	X	292	50.500	29.863	56.241	0.00	0.00
ATOM	4402	CD	ARG	X	292	48.507	29.385	55.814	0.00	0.00
ATOM	4403	HD2	ARG	X	292	48.749	28.409	56.234	0.00	0.00
ATOM	4404	HD3	ARG	X	292	47.955	29.952	56.564	0.00	0.00
ATOM	4405	NE	ARG	X	292	47.629	29.130	54.618	0.00	0.00
ATOM	4406	HE	ARG	X	292	48.156	28.810	53.818	0.00	0.00
ATOM	4407	CZ	ARG	X	292	46.325	28.895	54.518	0.00	0.00
ATOM	4408	NH1	ARG	X	292	45.433	29.066	55.487	0.00	0.00
ATOM	4409	HH11	ARG	X	292	45.674	29.373	56.419	0.00	0.00
ATOM	4410	HH12	ARG	X	292	44.497	28.704	55.368	0.00	0.00
ATOM	4411	NH2	ARG	X	292	45.783	28.515	53.368	0.00	0.00
ATOM	4412	HH21	ARG	X	292	46.308	28.238	52.550	0.00	0.00
ATOM	4413	HH22	ARG	X	292	44.806	28.261	53.323	0.00	0.00
ATOM	4414	C	ARG	X	292	49.046	33.733	54.156	0.00	0.00
ATOM	4415	O	ARG	X	292	49.991	34.235	53.605	0.00	0.00
ATOM	4416	N	PHE	X	293	48.051	34.459	54.716	0.00	0.00
ATOM	4417	H	PHE	X	293	47.227	33.945	54.994	0.00	0.00

ATOM	4418	CA	PHE	X	293	47.996	35.921	54.993	0.00	0.00
ATOM	4419	HA	PHE	X	293	49.023	36.285	55.017	0.00	0.00
ATOM	4420	CB	PHE	X	293	47.185	36.718	53.994	0.00	0.00
ATOM	4421	HB2	PHE	X	293	46.129	36.506	54.163	0.00	0.00
ATOM	4422	HB3	PHE	X	293	47.401	37.787	53.999	0.00	0.00
ATOM	4423	CG	PHE	X	293	47.510	36.352	52.540	0.00	0.00
ATOM	4424	CD1	PHE	X	293	48.812	36.321	52.095	0.00	0.00
ATOM	4425	HD1	PHE	X	293	49.593	36.579	52.795	0.00	0.00
ATOM	4426	CE1	PHE	X	293	49.066	35.895	50.770	0.00	0.00
ATOM	4427	HE1	PHE	X	293	50.109	35.725	50.548	0.00	0.00
ATOM	4428	CZ	PHE	X	293	48.045	35.583	49.882	0.00	0.00
ATOM	4429	HZ	PHE	X	293	48.218	35.155	48.906	0.00	0.00
ATOM	4430	CE2	PHE	X	293	46.717	35.702	50.362	0.00	0.00
ATOM	4431	HE2	PHE	X	293	45.893	35.437	49.716	0.00	0.00
ATOM	4432	CD2	PHE	X	293	46.467	36.077	51.676	0.00	0.00
ATOM	4433	HD2	PHE	X	293	45.451	36.271	51.988	0.00	0.00
ATOM	4434	C	PHE	X	293	47.618	36.304	56.370	0.00	0.00
ATOM	4435	O	PHE	X	293	47.172	35.504	57.177	0.00	0.00
ATOM	4436	N	SER	X	294	47.751	37.573	56.750	0.00	0.00
ATOM	4437	H	SER	X	294	48.028	38.308	56.116	0.00	0.00
ATOM	4438	CA	SER	X	294	47.417	38.123	58.131	0.00	0.00
ATOM	4439	HA	SER	X	294	47.822	37.445	58.882	0.00	0.00
ATOM	4440	CB	SER	X	294	48.060	39.501	58.400	0.00	0.00
ATOM	4441	HB2	SER	X	294	47.851	39.737	59.444	0.00	0.00
ATOM	4442	HB3	SER	X	294	49.138	39.375	58.304	0.00	0.00
ATOM	4443	OG	SER	X	294	47.668	40.460	57.394	0.00	0.00
ATOM	4444	HG	SER	X	294	47.615	41.302	57.853	0.00	0.00
ATOM	4445	C	SER	X	294	45.903	38.196	58.410	0.00	0.00
ATOM	4446	O	SER	X	294	45.469	37.548	59.349	0.00	0.00
ATOM	4447	N	PHE	X	295	45.147	38.867	57.543	0.00	0.00
ATOM	4448	H	PHE	X	295	45.619	39.428	56.849	0.00	0.00
ATOM	4449	CA	PHE	X	295	43.674	38.977	57.632	0.00	0.00
ATOM	4450	HA	PHE	X	295	43.181	38.195	58.210	0.00	0.00
ATOM	4451	CB	PHE	X	295	43.206	40.295	58.244	0.00	0.00
ATOM	4452	HB2	PHE	X	295	43.672	41.139	57.735	0.00	0.00
ATOM	4453	HB3	PHE	X	295	42.135	40.479	58.151	0.00	0.00
ATOM	4454	CG	PHE	X	295	43.417	40.522	59.746	0.00	0.00
ATOM	4455	CD1	PHE	X	295	42.484	40.198	60.679	0.00	0.00
ATOM	4456	HD1	PHE	X	295	41.474	39.935	60.399	0.00	0.00
ATOM	4457	CE1	PHE	X	295	42.861	40.112	62.050	0.00	0.00
ATOM	4458	HE1	PHE	X	295	42.201	39.781	62.839	0.00	0.00
ATOM	4459	CZ	PHE	X	295	44.170	40.503	62.421	0.00	0.00
ATOM	4460	HZ	PHE	X	295	44.372	40.336	63.469	0.00	0.00
ATOM	4461	CE2	PHE	X	295	45.100	40.884	61.468	0.00	0.00
ATOM	4462	HE2	PHE	X	295	46.094	41.107	61.828	0.00	0.00
ATOM	4463	CD2	PHE	X	295	44.707	40.927	60.114	0.00	0.00
ATOM	4464	HD2	PHE	X	295	45.361	41.167	59.289	0.00	0.00
ATOM	4465	C	PHE	X	295	43.200	38.923	56.127	0.00	0.00
ATOM	4466	O	PHE	X	295	43.956	39.241	55.228	0.00	0.00
ATOM	4467	N	VAL	X	296	41.980	38.338	55.955	0.00	0.00
ATOM	4468	H	VAL	X	296	41.516	38.262	56.849	0.00	0.00
ATOM	4469	CA	VAL	X	296	41.293	38.033	54.607	0.00	0.00
ATOM	4470	HA	VAL	X	296	41.662	38.836	53.969	0.00	0.00
ATOM	4471	CB	VAL	X	296	41.672	36.553	54.091	0.00	0.00
ATOM	4472	HB	VAL	X	296	41.149	36.312	53.165	0.00	0.00
ATOM	4473	CG1	VAL	X	296	43.154	36.452	53.822	0.00	0.00
ATOM	4474	HG11	VAL	X	296	43.693	37.357	53.541	0.00	0.00
ATOM	4475	HG12	VAL	X	296	43.706	36.158	54.715	0.00	0.00
ATOM	4476	HG13	VAL	X	296	43.378	35.755	53.014	0.00	0.00
ATOM	4477	CG2	VAL	X	296	41.100	35.470	55.016	0.00	0.00
ATOM	4478	HG21	VAL	X	296	41.254	34.455	54.648	0.00	0.00
ATOM	4479	HG22	VAL	X	296	41.545	35.605	56.001	0.00	0.00
ATOM	4480	HG23	VAL	X	296	40.015	35.573	55.013	0.00	0.00
ATOM	4481	C	VAL	X	296	39.763	38.171	54.806	0.00	0.00
ATOM	4482	O	VAL	X	296	39.333	38.207	55.973	0.00	0.00
ATOM	4483	N	PRO	X	297	38.938	38.220	53.672	0.00	0.00
ATOM	4484	CD	PRO	X	297	39.389	38.224	52.296	0.00	0.00
ATOM	4485	HD2	PRO	X	297	39.739	37.229	52.020	0.00	0.00
ATOM	4486	HD3	PRO	X	297	40.144	38.976	52.066	0.00	0.00
ATOM	4487	CG	PRO	X	297	38.177	38.398	51.394	0.00	0.00

ATOM	4488	HG2	PRO	X	297	38.128	37.881	50.436	0.00	0.00
ATOM	4489	HG3	PRO	X	297	38.206	39.473	51.215	0.00	0.00
ATOM	4490	CB	PRO	X	297	37.009	37.995	52.281	0.00	0.00
ATOM	4491	HB2	PRO	X	297	36.881	36.917	52.184	0.00	0.00
ATOM	4492	HB3	PRO	X	297	36.115	38.597	52.120	0.00	0.00
ATOM	4493	CA	PRO	X	297	37.501	38.196	53.733	0.00	0.00
ATOM	4494	HA	PRO	X	297	37.289	39.235	53.987	0.00	0.00
ATOM	4495	C	PRO	X	297	36.858	37.204	54.760	0.00	0.00
ATOM	4496	O	PRO	X	297	37.364	36.092	55.013	0.00	0.00
ATOM	4497	N	VAL	X	298	35.723	37.587	55.284	0.00	0.00
ATOM	4498	H	VAL	X	298	35.232	38.420	54.992	0.00	0.00
ATOM	4499	CA	VAL	X	298	35.203	36.909	56.451	0.00	0.00
ATOM	4500	HA	VAL	X	298	35.808	36.015	56.600	0.00	0.00
ATOM	4501	CB	VAL	X	298	35.291	37.785	57.695	0.00	0.00
ATOM	4502	HB	VAL	X	298	34.667	38.675	57.626	0.00	0.00
ATOM	4503	CG1	VAL	X	298	34.763	37.044	58.939	0.00	0.00
ATOM	4504	HG11	VAL	X	298	33.682	37.173	58.992	0.00	0.00
ATOM	4505	HG12	VAL	X	298	35.117	36.017	58.850	0.00	0.00
ATOM	4506	HG13	VAL	X	298	35.159	37.488	59.852	0.00	0.00
ATOM	4507	CG2	VAL	X	298	36.704	38.147	58.008	0.00	0.00
ATOM	4508	HG21	VAL	X	298	37.123	38.699	57.167	0.00	0.00
ATOM	4509	HG22	VAL	X	298	36.679	38.890	58.805	0.00	0.00
ATOM	4510	HG23	VAL	X	298	37.218	37.200	58.170	0.00	0.00
ATOM	4511	C	VAL	X	298	33.783	36.377	56.198	0.00	0.00
ATOM	4512	O	VAL	X	298	32.928	37.177	55.828	0.00	0.00
ATOM	4513	N	VAL	X	299	33.618	35.037	56.484	0.00	0.00
ATOM	4514	H	VAL	X	299	34.446	34.511	56.725	0.00	0.00
ATOM	4515	CA	VAL	X	299	32.252	34.404	56.631	0.00	0.00
ATOM	4516	HA	VAL	X	299	31.553	34.707	55.851	0.00	0.00
ATOM	4517	CB	VAL	X	299	32.240	32.929	56.669	0.00	0.00
ATOM	4518	HB	VAL	X	299	32.859	32.652	57.522	0.00	0.00
ATOM	4519	CG1	VAL	X	299	30.796	32.516	56.985	0.00	0.00
ATOM	4520	HG11	VAL	X	299	30.129	32.961	56.247	0.00	0.00
ATOM	4521	HG12	VAL	X	299	30.816	31.438	57.148	0.00	0.00
ATOM	4522	HG13	VAL	X	299	30.499	32.970	57.930	0.00	0.00
ATOM	4523	CG2	VAL	X	299	32.793	32.254	55.461	0.00	0.00
ATOM	4524	HG21	VAL	X	299	33.823	32.608	55.441	0.00	0.00
ATOM	4525	HG22	VAL	X	299	32.710	31.185	55.659	0.00	0.00
ATOM	4526	HG23	VAL	X	299	32.273	32.504	54.536	0.00	0.00
ATOM	4527	C	VAL	X	299	31.730	34.982	57.978	0.00	0.00
ATOM	4528	O	VAL	X	299	32.082	34.484	59.006	0.00	0.00
ATOM	4529	N	ASP	X	300	30.831	35.986	57.920	0.00	0.00
ATOM	4530	H	ASP	X	300	30.564	36.283	56.993	0.00	0.00
ATOM	4531	CA	ASP	X	300	30.292	36.766	59.084	0.00	0.00
ATOM	4532	HA	ASP	X	300	30.796	36.300	59.930	0.00	0.00
ATOM	4533	CB	ASP	X	300	30.647	38.236	58.820	0.00	0.00
ATOM	4534	HB2	ASP	X	300	30.619	38.788	59.759	0.00	0.00
ATOM	4535	HB3	ASP	X	300	31.613	38.399	58.342	0.00	0.00
ATOM	4536	CG	ASP	X	300	29.658	38.957	57.858	0.00	0.00
ATOM	4537	OD1	ASP	X	300	29.450	38.483	56.696	0.00	0.00
ATOM	4538	OD2	ASP	X	300	29.133	40.069	58.230	0.00	0.00
ATOM	4539	C	ASP	X	300	28.793	36.533	59.345	0.00	0.00
ATOM	4540	O	ASP	X	300	28.363	36.662	60.484	0.00	0.00
ATOM	4541	N	GLY	X	301	28.044	35.995	58.347	0.00	0.00
ATOM	4542	H	GLY	X	301	28.392	35.841	57.411	0.00	0.00
ATOM	4543	CA	GLY	X	301	26.654	35.739	58.406	0.00	0.00
ATOM	4544	HA2	GLY	X	301	26.425	34.710	58.092	0.00	0.00
ATOM	4545	HA3	GLY	X	301	26.275	35.643	59.435	0.00	0.00
ATOM	4546	C	GLY	X	301	25.824	36.686	57.568	0.00	0.00
ATOM	4547	O	GLY	X	301	24.618	36.465	57.364	0.00	0.00
ATOM	4548	N	ASP	X	302	26.445	37.767	57.050	0.00	0.00
ATOM	4549	H	ASP	X	302	27.431	37.952	57.166	0.00	0.00
ATOM	4550	CA	ASP	X	302	25.639	38.629	56.157	0.00	0.00
ATOM	4551	HA	ASP	X	302	24.943	37.980	55.625	0.00	0.00
ATOM	4552	CB	ASP	X	302	24.815	39.580	57.009	0.00	0.00
ATOM	4553	HB2	ASP	X	302	24.303	39.078	57.830	0.00	0.00
ATOM	4554	HB3	ASP	X	302	25.538	40.244	57.484	0.00	0.00
ATOM	4555	CG	ASP	X	302	23.798	40.402	56.297	0.00	0.00
ATOM	4556	OD1	ASP	X	302	24.174	41.575	55.953	0.00	0.00
ATOM	4557	OD2	ASP	X	302	22.611	39.921	56.110	0.00	0.00

ATOM	4558	C	ASP	X	302	26.395	39.363	54.998	0.00	0.00
ATOM	4559	O	ASP	X	302	25.971	39.323	53.898	0.00	0.00
ATOM	4560	N	PHE	X	303	27.633	39.930	55.280	0.00	0.00
ATOM	4561	H	PHE	X	303	28.106	39.935	56.172	0.00	0.00
ATOM	4562	CA	PHE	X	303	28.535	40.332	54.125	0.00	0.00
ATOM	4563	HA	PHE	X	303	27.931	40.911	53.427	0.00	0.00
ATOM	4564	CB	PHE	X	303	29.629	41.320	54.590	0.00	0.00
ATOM	4565	HB2	PHE	X	303	29.100	42.106	55.129	0.00	0.00
ATOM	4566	HB3	PHE	X	303	30.228	40.777	55.321	0.00	0.00
ATOM	4567	CG	PHE	X	303	30.389	41.800	53.424	0.00	0.00
ATOM	4568	CD1	PHE	X	303	31.319	40.872	52.863	0.00	0.00
ATOM	4569	HD1	PHE	X	303	31.361	39.848	53.203	0.00	0.00
ATOM	4570	CE1	PHE	X	303	31.975	41.213	51.668	0.00	0.00
ATOM	4571	HE1	PHE	X	303	32.601	40.493	51.161	0.00	0.00
ATOM	4572	CZ	PHE	X	303	31.787	42.510	51.150	0.00	0.00
ATOM	4573	HZ	PHE	X	303	32.299	42.779	50.238	0.00	0.00
ATOM	4574	CE2	PHE	X	303	30.844	43.427	51.641	0.00	0.00
ATOM	4575	HE2	PHE	X	303	30.555	44.371	51.203	0.00	0.00
ATOM	4576	CD2	PHE	X	303	30.150	43.017	52.802	0.00	0.00
ATOM	4577	HD2	PHE	X	303	29.572	43.772	53.314	0.00	0.00
ATOM	4578	C	PHE	X	303	28.868	39.132	53.300	0.00	0.00
ATOM	4579	O	PHE	X	303	28.783	39.212	52.100	0.00	0.00
ATOM	4580	N	LEU	X	304	29.326	38.001	53.896	0.00	0.00
ATOM	4581	H	LEU	X	304	29.458	38.096	54.893	0.00	0.00
ATOM	4582	CA	LEU	X	304	29.422	36.641	53.358	0.00	0.00
ATOM	4583	HA	LEU	X	304	28.933	36.586	52.385	0.00	0.00
ATOM	4584	CB	LEU	X	304	30.790	36.269	52.973	0.00	0.00
ATOM	4585	HB2	LEU	X	304	31.245	36.422	53.952	0.00	0.00
ATOM	4586	HB3	LEU	X	304	30.893	35.210	52.737	0.00	0.00
ATOM	4587	CG	LEU	X	304	31.550	37.084	51.910	0.00	0.00
ATOM	4588	HG	LEU	X	304	31.648	38.130	52.202	0.00	0.00
ATOM	4589	CD1	LEU	X	304	33.001	36.617	51.733	0.00	0.00
ATOM	4590	HD11	LEU	X	304	33.357	36.323	52.720	0.00	0.00
ATOM	4591	HD12	LEU	X	304	32.966	35.633	51.265	0.00	0.00
ATOM	4592	HD13	LEU	X	304	33.573	37.437	51.301	0.00	0.00
ATOM	4593	CD2	LEU	X	304	30.964	36.913	50.510	0.00	0.00
ATOM	4594	HD21	LEU	X	304	29.911	37.181	50.417	0.00	0.00
ATOM	4595	HD22	LEU	X	304	31.607	37.392	49.771	0.00	0.00
ATOM	4596	HD23	LEU	X	304	30.868	35.843	50.325	0.00	0.00
ATOM	4597	C	LEU	X	304	28.686	35.690	54.335	0.00	0.00
ATOM	4598	O	LEU	X	304	29.138	35.313	55.428	0.00	0.00
ATOM	4599	N	SER	X	305	27.481	35.281	53.917	0.00	0.00
ATOM	4600	H	SER	X	305	27.191	35.753	53.073	0.00	0.00
ATOM	4601	CA	SER	X	305	26.634	34.414	54.657	0.00	0.00
ATOM	4602	HA	SER	X	305	26.474	34.705	55.696	0.00	0.00
ATOM	4603	CB	SER	X	305	25.201	34.406	54.047	0.00	0.00
ATOM	4604	HB2	SER	X	305	24.552	33.898	54.760	0.00	0.00
ATOM	4605	HB3	SER	X	305	24.870	35.444	54.010	0.00	0.00
ATOM	4606	OG	SER	X	305	25.157	33.731	52.827	0.00	0.00
ATOM	4607	HG	SER	X	305	25.569	34.284	52.159	0.00	0.00
ATOM	4608	C	SER	X	305	27.033	32.931	54.710	0.00	0.00
ATOM	4609	O	SER	X	305	26.421	32.075	55.413	0.00	0.00
ATOM	4610	N	ASP	X	306	28.191	32.616	54.006	0.00	0.00
ATOM	4611	H	ASP	X	306	28.815	33.352	53.707	0.00	0.00
ATOM	4612	CA	ASP	X	306	28.724	31.342	54.010	0.00	0.00
ATOM	4613	HA	ASP	X	306	28.785	31.047	55.058	0.00	0.00
ATOM	4614	CB	ASP	X	306	27.769	30.306	53.299	0.00	0.00
ATOM	4615	HB2	ASP	X	306	26.724	30.606	53.369	0.00	0.00
ATOM	4616	HB3	ASP	X	306	27.857	30.327	52.213	0.00	0.00
ATOM	4617	CG	ASP	X	306	27.841	28.962	53.930	0.00	0.00
ATOM	4618	OD1	ASP	X	306	28.922	28.386	54.240	0.00	0.00
ATOM	4619	OD2	ASP	X	306	26.682	28.498	54.130	0.00	0.00
ATOM	4620	C	ASP	X	306	30.144	31.394	53.300	0.00	0.00
ATOM	4621	O	ASP	X	306	30.567	32.421	52.763	0.00	0.00
ATOM	4622	N	THR	X	307	30.843	30.239	53.165	0.00	0.00
ATOM	4623	H	THR	X	307	30.391	29.376	53.429	0.00	0.00
ATOM	4624	CA	THR	X	307	31.958	30.085	52.232	0.00	0.00
ATOM	4625	HA	THR	X	307	32.734	30.794	52.524	0.00	0.00
ATOM	4626	CB	THR	X	307	32.535	28.660	52.324	0.00	0.00
ATOM	4627	HB	THR	X	307	33.165	28.431	51.465	0.00	0.00

ATOM	4628	CG2	THR	X	307	33.300	28.472	53.580	0.00	0.00
ATOM	4629	HG21	THR	X	307	34.153	29.149	53.536	0.00	0.00
ATOM	4630	HG22	THR	X	307	32.622	28.630	54.419	0.00	0.00
ATOM	4631	HG23	THR	X	307	33.641	27.443	53.693	0.00	0.00
ATOM	4632	OG1	THR	X	307	31.473	27.781	52.170	0.00	0.00
ATOM	4633	HG1	THR	X	307	30.855	28.198	51.565	0.00	0.00
ATOM	4634	C	THR	X	307	31.466	30.346	50.801	0.00	0.00
ATOM	4635	O	THR	X	307	30.556	29.569	50.387	0.00	0.00
ATOM	4636	N	PRO	X	308	32.088	31.263	50.073	0.00	0.00
ATOM	4637	CD	PRO	X	308	33.149	32.214	50.480	0.00	0.00
ATOM	4638	HD2	PRO	X	308	34.006	31.599	50.756	0.00	0.00
ATOM	4639	HD3	PRO	X	308	32.899	32.818	51.352	0.00	0.00
ATOM	4640	CG	PRO	X	308	33.522	33.048	49.313	0.00	0.00
ATOM	4641	HG2	PRO	X	308	34.505	33.512	49.397	0.00	0.00
ATOM	4642	HG3	PRO	X	308	32.799	33.830	49.082	0.00	0.00
ATOM	4643	CB	PRO	X	308	33.319	32.054	48.123	0.00	0.00
ATOM	4644	HB2	PRO	X	308	34.183	31.398	48.018	0.00	0.00
ATOM	4645	HB3	PRO	X	308	33.214	32.569	47.168	0.00	0.00
ATOM	4646	CA	PRO	X	308	32.044	31.418	48.621	0.00	0.00
ATOM	4647	HA	PRO	X	308	31.211	32.106	48.472	0.00	0.00
ATOM	4648	C	PRO	X	308	31.708	30.060	47.784	0.00	0.00
ATOM	4649	O	PRO	X	308	30.886	30.072	46.876	0.00	0.00
ATOM	4650	N	GLU	X	309	32.389	28.962	48.165	0.00	0.00
ATOM	4651	H	GLU	X	309	32.990	28.970	48.977	0.00	0.00
ATOM	4652	CA	GLU	X	309	32.265	27.645	47.457	0.00	0.00
ATOM	4653	HA	GLU	X	309	32.339	27.917	46.404	0.00	0.00
ATOM	4654	CB	GLU	X	309	33.387	26.665	47.865	0.00	0.00
ATOM	4655	HB2	GLU	X	309	34.327	27.204	47.749	0.00	0.00
ATOM	4656	HB3	GLU	X	309	33.129	26.299	48.859	0.00	0.00
ATOM	4657	CG	GLU	X	309	33.450	25.428	47.004	0.00	0.00
ATOM	4658	HG2	GLU	X	309	32.465	24.960	47.029	0.00	0.00
ATOM	4659	HG3	GLU	X	309	33.734	25.748	46.002	0.00	0.00
ATOM	4660	CD	GLU	X	309	34.560	24.518	47.586	0.00	0.00
ATOM	4661	OE1	GLU	X	309	35.642	24.408	46.994	0.00	0.00
ATOM	4662	OE2	GLU	X	309	34.377	23.836	48.650	0.00	0.00
ATOM	4663	C	GLU	X	309	30.841	27.009	47.631	0.00	0.00
ATOM	4664	O	GLU	X	309	30.413	26.231	46.702	0.00	0.00
ATOM	4665	N	ALA	X	310	30.122	27.294	48.642	0.00	0.00
ATOM	4666	H	ALA	X	310	30.396	28.052	49.250	0.00	0.00
ATOM	4667	CA	ALA	X	310	28.689	27.155	48.640	0.00	0.00
ATOM	4668	HA	ALA	X	310	28.362	26.229	48.165	0.00	0.00
ATOM	4669	CB	ALA	X	310	28.238	27.028	50.048	0.00	0.00
ATOM	4670	HB1	ALA	X	310	27.225	26.629	50.099	0.00	0.00
ATOM	4671	HB2	ALA	X	310	28.858	26.312	50.589	0.00	0.00
ATOM	4672	HB3	ALA	X	310	28.302	27.968	50.595	0.00	0.00
ATOM	4673	C	ALA	X	310	27.839	28.247	47.972	0.00	0.00
ATOM	4674	O	ALA	X	310	26.855	27.875	47.390	0.00	0.00
ATOM	4675	N	LEU	X	311	28.105	29.540	48.122	0.00	0.00
ATOM	4676	H	LEU	X	311	28.919	29.744	48.684	0.00	0.00
ATOM	4677	CA	LEU	X	311	27.273	30.626	47.797	0.00	0.00
ATOM	4678	HA	LEU	X	311	26.237	30.565	48.131	0.00	0.00
ATOM	4679	CB	LEU	X	311	27.949	31.960	48.293	0.00	0.00
ATOM	4680	HB2	LEU	X	311	28.937	31.980	47.832	0.00	0.00
ATOM	4681	HB3	LEU	X	311	27.362	32.816	47.961	0.00	0.00
ATOM	4682	CG	LEU	X	311	28.116	32.123	49.834	0.00	0.00
ATOM	4683	HG	LEU	X	311	28.624	31.228	50.193	0.00	0.00
ATOM	4684	CD1	LEU	X	311	28.949	33.417	50.048	0.00	0.00
ATOM	4685	HD11	LEU	X	311	30.011	33.219	50.188	0.00	0.00
ATOM	4686	HD12	LEU	X	311	28.872	33.950	49.100	0.00	0.00
ATOM	4687	HD13	LEU	X	311	28.690	33.909	50.986	0.00	0.00
ATOM	4688	CD2	LEU	X	311	26.625	32.177	50.370	0.00	0.00
ATOM	4689	HD21	LEU	X	311	26.100	33.063	50.012	0.00	0.00
ATOM	4690	HD22	LEU	X	311	26.047	31.294	50.094	0.00	0.00
ATOM	4691	HD23	LEU	X	311	26.568	31.998	51.444	0.00	0.00
ATOM	4692	C	LEU	X	311	27.175	30.656	46.265	0.00	0.00
ATOM	4693	O	LEU	X	311	26.116	30.826	45.728	0.00	0.00
ATOM	4694	N	ILE	X	312	28.244	30.336	45.585	0.00	0.00
ATOM	4695	H	ILE	X	312	29.069	30.242	46.161	0.00	0.00
ATOM	4696	CA	ILE	X	312	28.380	30.142	44.109	0.00	0.00
ATOM	4697	HA	ILE	X	312	27.891	31.013	43.673	0.00	0.00

ATOM	4698	CB	ILE	X	312	29.864	30.095	43.659	0.00	0.00
ATOM	4699	HB	ILE	X	312	30.424	30.814	44.257	0.00	0.00
ATOM	4700	CG2	ILE	X	312	30.523	28.704	43.743	0.00	0.00
ATOM	4701	HG21	ILE	X	312	30.393	28.172	44.686	0.00	0.00
ATOM	4702	HG22	ILE	X	312	30.084	28.077	42.967	0.00	0.00
ATOM	4703	HG23	ILE	X	312	31.584	28.774	43.504	0.00	0.00
ATOM	4704	CG1	ILE	X	312	30.138	30.664	42.253	0.00	0.00
ATOM	4705	HG12	ILE	X	312	31.192	30.454	42.073	0.00	0.00
ATOM	4706	HG13	ILE	X	312	29.546	30.061	41.565	0.00	0.00
ATOM	4707	CD1	ILE	X	312	29.969	32.086	41.883	0.00	0.00
ATOM	4708	HD11	ILE	X	312	29.071	32.506	42.337	0.00	0.00
ATOM	4709	HD12	ILE	X	312	30.810	32.776	41.950	0.00	0.00
ATOM	4710	HD13	ILE	X	312	29.651	31.899	40.858	0.00	0.00
ATOM	4711	C	ILE	X	312	27.585	28.972	43.651	0.00	0.00
ATOM	4712	O	ILE	X	312	27.143	29.003	42.480	0.00	0.00
ATOM	4713	N	ASN	X	313	27.263	27.943	44.397	0.00	0.00
ATOM	4714	H	ASN	X	313	27.456	28.038	45.384	0.00	0.00
ATOM	4715	CA	ASN	X	313	26.625	26.676	43.928	0.00	0.00
ATOM	4716	HA	ASN	X	313	26.846	26.580	42.865	0.00	0.00
ATOM	4717	CB	ASN	X	313	27.320	25.501	44.588	0.00	0.00
ATOM	4718	HB2	ASN	X	313	28.389	25.611	44.404	0.00	0.00
ATOM	4719	HB3	ASN	X	313	27.164	25.559	45.665	0.00	0.00
ATOM	4720	CG	ASN	X	313	26.990	24.056	44.160	0.00	0.00
ATOM	4721	OD1	ASN	X	313	27.256	23.172	44.939	0.00	0.00
ATOM	4722	ND2	ASN	X	313	26.465	23.841	43.005	0.00	0.00
ATOM	4723	HD21	ASN	X	313	26.055	22.930	42.858	0.00	0.00
ATOM	4724	HD22	ASN	X	313	26.167	24.564	42.366	0.00	0.00
ATOM	4725	C	ASN	X	313	25.106	26.591	44.087	0.00	0.00
ATOM	4726	O	ASN	X	313	24.383	25.880	43.375	0.00	0.00
ATOM	4727	N	ALA	X	314	24.585	27.404	44.974	0.00	0.00
ATOM	4728	H	ALA	X	314	25.232	27.797	45.643	0.00	0.00
ATOM	4729	CA	ALA	X	314	23.123	27.612	45.202	0.00	0.00
ATOM	4730	HA	ALA	X	314	22.656	26.791	44.657	0.00	0.00
ATOM	4731	CB	ALA	X	314	22.833	27.510	46.710	0.00	0.00
ATOM	4732	HB1	ALA	X	314	23.459	26.744	47.169	0.00	0.00
ATOM	4733	HB2	ALA	X	314	23.113	28.434	47.216	0.00	0.00
ATOM	4734	HB3	ALA	X	314	21.782	27.344	46.946	0.00	0.00
ATOM	4735	C	ALA	X	314	22.608	28.954	44.545	0.00	0.00
ATOM	4736	O	ALA	X	314	21.431	29.152	44.395	0.00	0.00
ATOM	4737	N	GLY	X	315	23.464	29.845	44.028	0.00	0.00
ATOM	4738	H	GLY	X	315	24.429	29.557	43.951	0.00	0.00
ATOM	4739	CA	GLY	X	315	23.162	31.194	43.576	0.00	0.00
ATOM	4740	HA2	GLY	X	315	22.395	31.521	44.213	0.00	0.00
ATOM	4741	HA3	GLY	X	315	24.002	31.811	43.655	0.00	0.00
ATOM	4742	C	GLY	X	315	22.436	31.224	42.206	0.00	0.00
ATOM	4743	O	GLY	X	315	22.720	30.320	41.391	0.00	0.00
ATOM	4744	N	ASP	X	316	21.692	32.298	41.827	0.00	0.00
ATOM	4745	H	ASP	X	316	21.551	33.031	42.507	0.00	0.00
ATOM	4746	CA	ASP	X	316	21.283	32.566	40.463	0.00	0.00
ATOM	4747	HA	ASP	X	316	21.424	31.594	39.990	0.00	0.00
ATOM	4748	CB	ASP	X	316	19.796	33.045	40.502	0.00	0.00
ATOM	4749	HB2	ASP	X	316	19.121	32.291	40.906	0.00	0.00
ATOM	4750	HB3	ASP	X	316	19.728	33.787	41.298	0.00	0.00
ATOM	4751	CG	ASP	X	316	19.346	33.664	39.205	0.00	0.00
ATOM	4752	OD1	ASP	X	316	18.655	34.672	39.243	0.00	0.00
ATOM	4753	OD2	ASP	X	316	19.528	33.135	38.087	0.00	0.00
ATOM	4754	C	ASP	X	316	22.196	33.603	39.864	0.00	0.00
ATOM	4755	O	ASP	X	316	22.526	34.563	40.500	0.00	0.00
ATOM	4756	N	PHE	X	317	22.561	33.380	38.573	0.00	0.00
ATOM	4757	H	PHE	X	317	22.074	32.631	38.103	0.00	0.00
ATOM	4758	CA	PHE	X	317	23.404	34.209	37.878	0.00	0.00
ATOM	4759	HA	PHE	X	317	23.449	35.181	38.369	0.00	0.00
ATOM	4760	CB	PHE	X	317	24.862	33.693	37.825	0.00	0.00
ATOM	4761	HB2	PHE	X	317	24.853	32.748	37.282	0.00	0.00
ATOM	4762	HB3	PHE	X	317	25.432	34.258	37.088	0.00	0.00
ATOM	4763	CG	PHE	X	317	25.628	33.677	39.110	0.00	0.00
ATOM	4764	CD1	PHE	X	317	26.193	34.850	39.749	0.00	0.00
ATOM	4765	HD1	PHE	X	317	26.125	35.821	39.282	0.00	0.00
ATOM	4766	CE1	PHE	X	317	26.633	34.811	41.068	0.00	0.00
ATOM	4767	HE1	PHE	X	317	27.057	35.668	41.570	0.00	0.00

ATOM	4768	CZ	PHE	X	317	26.601	33.576	41.764	0.00	0.00
ATOM	4769	HZ	PHE	X	317	26.909	33.531	42.798	0.00	0.00
ATOM	4770	CE2	PHE	X	317	26.190	32.405	41.123	0.00	0.00
ATOM	4771	HE2	PHE	X	317	26.227	31.422	41.569	0.00	0.00
ATOM	4772	CD2	PHE	X	317	25.582	32.518	39.877	0.00	0.00
ATOM	4773	HD2	PHE	X	317	25.048	31.655	39.506	0.00	0.00
ATOM	4774	C	PHE	X	317	22.914	34.535	36.482	0.00	0.00
ATOM	4775	O	PHE	X	317	23.735	34.995	35.649	0.00	0.00
ATOM	4776	N	HIE	X	318	21.647	34.185	36.064	0.00	0.00
ATOM	4777	H	HIE	X	318	20.983	33.812	36.727	0.00	0.00
ATOM	4778	CA	HIE	X	318	21.074	34.357	34.676	0.00	0.00
ATOM	4779	HA	HIE	X	318	21.569	33.616	34.048	0.00	0.00
ATOM	4780	CB	HIE	X	318	19.565	34.049	34.688	0.00	0.00
ATOM	4781	HB2	HIE	X	318	19.362	33.183	35.318	0.00	0.00
ATOM	4782	HB3	HIE	X	318	19.006	34.849	35.174	0.00	0.00
ATOM	4783	CG	HIE	X	318	18.977	33.766	33.321	0.00	0.00
ATOM	4784	ND1	HIE	X	318	18.068	34.528	32.610	0.00	0.00
ATOM	4785	CE1	HIE	X	318	17.876	33.918	31.410	0.00	0.00
ATOM	4786	HE1	HIE	X	318	17.213	34.245	30.623	0.00	0.00
ATOM	4787	NE2	HIE	X	318	18.549	32.752	31.396	0.00	0.00
ATOM	4788	HE2	HIE	X	318	18.407	32.122	30.620	0.00	0.00
ATOM	4789	CD2	HIE	X	318	19.206	32.591	32.595	0.00	0.00
ATOM	4790	HD2	HIE	X	318	19.813	31.728	32.828	0.00	0.00
ATOM	4791	C	HIE	X	318	21.376	35.769	34.121	0.00	0.00
ATOM	4792	O	HIE	X	318	21.452	36.749	34.909	0.00	0.00
ATOM	4793	N	GLY	X	319	21.749	35.799	32.838	0.00	0.00
ATOM	4794	H	GLY	X	319	21.560	34.945	32.333	0.00	0.00
ATOM	4795	CA	GLY	X	319	22.123	36.936	31.908	0.00	0.00
ATOM	4796	HA2	GLY	X	319	22.350	36.370	31.031	0.00	0.00
ATOM	4797	HA3	GLY	X	319	21.273	37.531	31.674	0.00	0.00
ATOM	4798	C	GLY	X	319	23.496	37.604	32.129	0.00	0.00
ATOM	4799	O	GLY	X	319	23.898	38.550	31.411	0.00	0.00
ATOM	4800	N	LEU	X	320	24.245	37.227	33.187	0.00	0.00
ATOM	4801	H	LEU	X	320	23.910	36.435	33.717	0.00	0.00
ATOM	4802	CA	LEU	X	320	25.467	37.823	33.719	0.00	0.00
ATOM	4803	HA	LEU	X	320	25.278	38.890	33.829	0.00	0.00
ATOM	4804	CB	LEU	X	320	25.799	37.179	35.073	0.00	0.00
ATOM	4805	HB2	LEU	X	320	25.094	37.478	35.849	0.00	0.00
ATOM	4806	HB3	LEU	X	320	25.828	36.089	35.078	0.00	0.00
ATOM	4807	CG	LEU	X	320	27.169	37.579	35.630	0.00	0.00
ATOM	4808	HG	LEU	X	320	27.906	37.081	35.001	0.00	0.00
ATOM	4809	CD1	LEU	X	320	27.327	39.073	35.731	0.00	0.00
ATOM	4810	HD11	LEU	X	320	27.296	39.443	34.706	0.00	0.00
ATOM	4811	HD12	LEU	X	320	26.656	39.510	36.470	0.00	0.00
ATOM	4812	HD13	LEU	X	320	28.324	39.304	36.107	0.00	0.00
ATOM	4813	CD2	LEU	X	320	27.380	36.892	36.973	0.00	0.00
ATOM	4814	HD21	LEU	X	320	26.563	37.084	37.669	0.00	0.00
ATOM	4815	HD22	LEU	X	320	27.473	35.816	36.825	0.00	0.00
ATOM	4816	HD23	LEU	X	320	28.272	37.276	37.467	0.00	0.00
ATOM	4817	C	LEU	X	320	26.593	37.519	32.689	0.00	0.00
ATOM	4818	O	LEU	X	320	26.794	36.391	32.239	0.00	0.00
ATOM	4819	N	GLN	X	321	27.385	38.479	32.330	0.00	0.00
ATOM	4820	H	GLN	X	321	27.238	39.434	32.624	0.00	0.00
ATOM	4821	CA	GLN	X	321	28.591	38.269	31.502	0.00	0.00
ATOM	4822	HA	GLN	X	321	28.569	37.299	31.005	0.00	0.00
ATOM	4823	CB	GLN	X	321	28.531	39.386	30.444	0.00	0.00
ATOM	4824	HB2	GLN	X	321	28.524	40.398	30.850	0.00	0.00
ATOM	4825	HB3	GLN	X	321	29.463	39.380	29.878	0.00	0.00
ATOM	4826	CG	GLN	X	321	27.449	39.156	29.429	0.00	0.00
ATOM	4827	HG2	GLN	X	321	27.616	38.266	28.824	0.00	0.00
ATOM	4828	HG3	GLN	X	321	26.475	39.023	29.901	0.00	0.00
ATOM	4829	CD	GLN	X	321	27.148	40.290	28.492	0.00	0.00
ATOM	4830	OE1	GLN	X	321	26.633	41.328	28.877	0.00	0.00
ATOM	4831	NE2	GLN	X	321	27.671	40.355	27.330	0.00	0.00
ATOM	4832	HE21	GLN	X	321	27.532	41.257	26.897	0.00	0.00
ATOM	4833	HE22	GLN	X	321	27.884	39.516	26.809	0.00	0.00
ATOM	4834	C	GLN	X	321	29.934	38.401	32.320	0.00	0.00
ATOM	4835	O	GLN	X	321	30.152	39.431	32.945	0.00	0.00
ATOM	4836	N	VAL	X	322	30.803	37.401	32.325	0.00	0.00
ATOM	4837	H	VAL	X	322	30.569	36.517	31.896	0.00	0.00

ATOM	4838	CA	VAL	X	322	32.097	37.377	33.011	0.00	0.00
ATOM	4839	HA	VAL	X	322	32.393	38.415	33.159	0.00	0.00
ATOM	4840	CB	VAL	X	322	31.938	36.603	34.376	0.00	0.00
ATOM	4841	HB	VAL	X	322	32.038	35.553	34.100	0.00	0.00
ATOM	4842	CG1	VAL	X	322	33.106	36.903	35.276	0.00	0.00
ATOM	4843	HG11	VAL	X	322	32.950	36.650	36.325	0.00	0.00
ATOM	4844	HG12	VAL	X	322	33.993	36.325	35.019	0.00	0.00
ATOM	4845	HG13	VAL	X	322	33.313	37.967	35.154	0.00	0.00
ATOM	4846	CG2	VAL	X	322	30.617	36.658	35.153	0.00	0.00
ATOM	4847	HG21	VAL	X	322	30.087	37.599	35.006	0.00	0.00
ATOM	4848	HG22	VAL	X	322	29.921	35.905	34.785	0.00	0.00
ATOM	4849	HG23	VAL	X	322	30.756	36.622	36.234	0.00	0.00
ATOM	4850	C	VAL	X	322	33.286	36.720	32.250	0.00	0.00
ATOM	4851	O	VAL	X	322	33.078	35.624	31.735	0.00	0.00
ATOM	4852	N	LEU	X	323	34.521	37.381	32.206	0.00	0.00
ATOM	4853	H	LEU	X	323	34.520	38.224	32.762	0.00	0.00
ATOM	4854	CA	LEU	X	323	35.765	36.799	31.649	0.00	0.00
ATOM	4855	HA	LEU	X	323	35.495	35.973	30.992	0.00	0.00
ATOM	4856	CB	LEU	X	323	36.302	37.908	30.783	0.00	0.00
ATOM	4857	HB2	LEU	X	323	35.491	38.430	30.275	0.00	0.00
ATOM	4858	HB3	LEU	X	323	36.667	38.568	31.570	0.00	0.00
ATOM	4859	CG	LEU	X	323	37.379	37.637	29.711	0.00	0.00
ATOM	4860	HG	LEU	X	323	37.006	36.842	29.066	0.00	0.00
ATOM	4861	CD1	LEU	X	323	37.552	38.958	28.895	0.00	0.00
ATOM	4862	HD11	LEU	X	323	37.519	39.851	29.519	0.00	0.00
ATOM	4863	HD12	LEU	X	323	38.480	39.129	28.349	0.00	0.00
ATOM	4864	HD13	LEU	X	323	36.646	39.066	28.298	0.00	0.00
ATOM	4865	CD2	LEU	X	323	38.665	37.333	30.409	0.00	0.00
ATOM	4866	HD21	LEU	X	323	38.957	38.169	31.045	0.00	0.00
ATOM	4867	HD22	LEU	X	323	38.753	36.389	30.946	0.00	0.00
ATOM	4868	HD23	LEU	X	323	39.395	37.274	29.601	0.00	0.00
ATOM	4869	C	LEU	X	323	36.567	36.289	32.879	0.00	0.00
ATOM	4870	O	LEU	X	323	36.712	37.059	33.827	0.00	0.00
ATOM	4871	N	VAL	X	324	37.159	35.055	32.785	0.00	0.00
ATOM	4872	H	VAL	X	324	37.172	34.524	31.927	0.00	0.00
ATOM	4873	CA	VAL	X	324	37.898	34.417	33.952	0.00	0.00
ATOM	4874	HA	VAL	X	324	38.193	35.101	34.747	0.00	0.00
ATOM	4875	CB	VAL	X	324	37.002	33.383	34.617	0.00	0.00
ATOM	4876	HB	VAL	X	324	37.639	32.942	35.384	0.00	0.00
ATOM	4877	CG1	VAL	X	324	35.776	34.098	35.170	0.00	0.00
ATOM	4878	HG11	VAL	X	324	36.076	35.023	35.662	0.00	0.00
ATOM	4879	HG12	VAL	X	324	35.018	34.223	34.397	0.00	0.00
ATOM	4880	HG13	VAL	X	324	35.511	33.435	35.994	0.00	0.00
ATOM	4881	CG2	VAL	X	324	36.431	32.239	33.734	0.00	0.00
ATOM	4882	HG21	VAL	X	324	35.897	31.480	34.306	0.00	0.00
ATOM	4883	HG22	VAL	X	324	35.897	32.644	32.875	0.00	0.00
ATOM	4884	HG23	VAL	X	324	37.228	31.632	33.304	0.00	0.00
ATOM	4885	C	VAL	X	324	39.197	33.729	33.462	0.00	0.00
ATOM	4886	O	VAL	X	324	39.239	33.459	32.221	0.00	0.00
ATOM	4887	N	GLY	X	325	40.160	33.387	34.368	0.00	0.00
ATOM	4888	H	GLY	X	325	40.052	33.642	35.340	0.00	0.00
ATOM	4889	CA	GLY	X	325	41.391	32.719	33.845	0.00	0.00
ATOM	4890	HA2	GLY	X	325	41.122	31.666	33.776	0.00	0.00
ATOM	4891	HA3	GLY	X	325	41.688	33.066	32.863	0.00	0.00
ATOM	4892	C	GLY	X	325	42.635	32.752	34.742	0.00	0.00
ATOM	4893	O	GLY	X	325	42.528	33.236	35.868	0.00	0.00
ATOM	4894	N	VAL	X	326	43.675	32.167	34.366	0.00	0.00
ATOM	4895	H	VAL	X	326	43.616	31.734	33.455	0.00	0.00
ATOM	4896	CA	VAL	X	326	44.976	31.981	35.049	0.00	0.00
ATOM	4897	HA	VAL	X	326	45.052	32.523	35.992	0.00	0.00
ATOM	4898	CB	VAL	X	326	45.179	30.507	35.511	0.00	0.00
ATOM	4899	HB	VAL	X	326	46.187	30.449	35.922	0.00	0.00
ATOM	4900	CG1	VAL	X	326	44.119	30.132	36.525	0.00	0.00
ATOM	4901	HG11	VAL	X	326	44.349	29.362	37.261	0.00	0.00
ATOM	4902	HG12	VAL	X	326	43.839	31.035	37.067	0.00	0.00
ATOM	4903	HG13	VAL	X	326	43.209	29.734	36.075	0.00	0.00
ATOM	4904	CG2	VAL	X	326	45.149	29.473	34.302	0.00	0.00
ATOM	4905	HG21	VAL	X	326	45.971	29.614	33.600	0.00	0.00
ATOM	4906	HG22	VAL	X	326	45.377	28.467	34.654	0.00	0.00
ATOM	4907	HG23	VAL	X	326	44.174	29.441	33.817	0.00	0.00

ATOM	4908	C	VAL	X	326	46.104	32.413	34.086	0.00	0.00
ATOM	4909	O	VAL	X	326	45.947	32.424	32.861	0.00	0.00
ATOM	4910	N	VAL	X	327	47.360	32.597	34.579	0.00	0.00
ATOM	4911	H	VAL	X	327	47.483	32.560	35.581	0.00	0.00
ATOM	4912	CA	VAL	X	327	48.661	32.556	33.798	0.00	0.00
ATOM	4913	HA	VAL	X	327	48.455	32.610	32.730	0.00	0.00
ATOM	4914	CB	VAL	X	327	49.554	33.731	34.130	0.00	0.00
ATOM	4915	HB	VAL	X	327	50.258	33.598	33.309	0.00	0.00
ATOM	4916	CG1	VAL	X	327	48.723	34.991	33.931	0.00	0.00
ATOM	4917	HG11	VAL	X	327	48.182	34.978	32.985	0.00	0.00
ATOM	4918	HG12	VAL	X	327	48.106	35.124	34.820	0.00	0.00
ATOM	4919	HG13	VAL	X	327	49.264	35.936	33.976	0.00	0.00
ATOM	4920	CG2	VAL	X	327	50.216	33.630	35.528	0.00	0.00
ATOM	4921	HG21	VAL	X	327	50.805	32.719	35.631	0.00	0.00
ATOM	4922	HG22	VAL	X	327	50.866	34.502	35.613	0.00	0.00
ATOM	4923	HG23	VAL	X	327	49.390	33.668	36.238	0.00	0.00
ATOM	4924	C	VAL	X	327	49.301	31.180	34.010	0.00	0.00
ATOM	4925	O	VAL	X	327	48.749	30.437	34.798	0.00	0.00
ATOM	4926	N	LYS	X	328	50.451	30.945	33.329	0.00	0.00
ATOM	4927	H	LYS	X	328	50.878	31.742	32.878	0.00	0.00
ATOM	4928	CA	LYS	X	328	51.216	29.769	33.343	0.00	0.00
ATOM	4929	HA	LYS	X	328	50.531	29.061	32.877	0.00	0.00
ATOM	4930	CB	LYS	X	328	52.366	29.780	32.327	0.00	0.00
ATOM	4931	HB2	LYS	X	328	51.930	30.094	31.378	0.00	0.00
ATOM	4932	HB3	LYS	X	328	53.071	30.564	32.603	0.00	0.00
ATOM	4933	CG	LYS	X	328	53.074	28.426	32.247	0.00	0.00
ATOM	4934	HG2	LYS	X	328	53.706	28.327	33.129	0.00	0.00
ATOM	4935	HG3	LYS	X	328	52.372	27.604	32.108	0.00	0.00
ATOM	4936	CD	LYS	X	328	54.035	28.324	31.080	0.00	0.00
ATOM	4937	HD2	LYS	X	328	53.533	28.103	30.138	0.00	0.00
ATOM	4938	HD3	LYS	X	328	54.592	29.253	30.954	0.00	0.00
ATOM	4939	CE	LYS	X	328	55.011	27.113	31.246	0.00	0.00
ATOM	4940	HE2	LYS	X	328	54.397	26.247	31.490	0.00	0.00
ATOM	4941	HE3	LYS	X	328	55.451	26.821	30.292	0.00	0.00
ATOM	4942	NZ	LYS	X	328	56.129	27.444	32.222	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	56.779	26.679	32.336	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	56.560	28.329	31.998	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	55.795	27.663	33.149	0.00	0.00
ATOM	4946	C	LYS	X	328	51.488	29.129	34.739	0.00	0.00
ATOM	4947	O	LYS	X	328	51.070	28.037	34.974	0.00	0.00
ATOM	4948	N	ASP	X	329	52.428	29.698	35.464	0.00	0.00
ATOM	4949	H	ASP	X	329	52.767	30.624	35.245	0.00	0.00
ATOM	4950	CA	ASP	X	329	53.148	29.103	36.616	0.00	0.00
ATOM	4951	HA	ASP	X	329	52.843	28.057	36.638	0.00	0.00
ATOM	4952	CB	ASP	X	329	54.714	29.153	36.570	0.00	0.00
ATOM	4953	HB2	ASP	X	329	55.108	30.109	36.916	0.00	0.00
ATOM	4954	HB3	ASP	X	329	55.136	28.491	37.326	0.00	0.00
ATOM	4955	CG	ASP	X	329	55.400	28.646	35.277	0.00	0.00
ATOM	4956	OD1	ASP	X	329	55.719	27.434	35.088	0.00	0.00
ATOM	4957	OD2	ASP	X	329	55.528	29.357	34.227	0.00	0.00
ATOM	4958	C	ASP	X	329	52.611	29.718	37.959	0.00	0.00
ATOM	4959	O	ASP	X	329	53.288	30.369	38.676	0.00	0.00
ATOM	4960	N	GLU	X	330	51.371	29.446	38.302	0.00	0.00
ATOM	4961	H	GLU	X	330	50.987	28.699	37.741	0.00	0.00
ATOM	4962	CA	GLU	X	330	50.553	30.048	39.369	0.00	0.00
ATOM	4963	HA	GLU	X	330	50.645	31.119	39.188	0.00	0.00
ATOM	4964	CB	GLU	X	330	49.042	29.575	39.288	0.00	0.00
ATOM	4965	HB2	GLU	X	330	49.065	28.517	39.027	0.00	0.00
ATOM	4966	HB3	GLU	X	330	48.462	29.645	40.209	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.307	30.264	38.173	0.00	0.00
ATOM	4968	HG2	GLU	X	330	48.853	29.984	37.272	0.00	0.00
ATOM	4969	HG3	GLU	X	330	47.350	29.768	38.016	0.00	0.00
ATOM	4970	CD	GLU	X	330	47.963	31.725	38.411	0.00	0.00
ATOM	4971	OE1	GLU	X	330	47.950	32.233	39.532	0.00	0.00
ATOM	4972	OE2	GLU	X	330	47.778	32.481	37.391	0.00	0.00
ATOM	4973	C	GLU	X	330	51.193	29.807	40.784	0.00	0.00
ATOM	4974	O	GLU	X	330	51.327	30.728	41.594	0.00	0.00
ATOM	4975	N	GLY	X	331	51.580	28.516	41.025	0.00	0.00
ATOM	4976	H	GLY	X	331	51.450	27.742	40.389	0.00	0.00
ATOM	4977	CA	GLY	X	331	51.910	28.090	42.473	0.00	0.00

ATOM	4978	HA2	GLY	X	331	51.109	28.430	43.167	0.00	0.00
ATOM	4979	HA3	GLY	X	331	51.934	27.007	42.501	0.00	0.00
ATOM	4980	C	GLY	X	331	53.282	28.573	42.952	0.00	0.00
ATOM	4981	O	GLY	X	331	53.585	28.532	44.173	0.00	0.00
ATOM	4982	N	SER	X	332	54.134	29.119	42.066	0.00	0.00
ATOM	4983	H	SER	X	332	53.809	29.158	41.111	0.00	0.00
ATOM	4984	CA	SER	X	332	55.518	29.396	42.337	0.00	0.00
ATOM	4985	HA	SER	X	332	55.938	28.509	42.810	0.00	0.00
ATOM	4986	CB	SER	X	332	56.219	29.422	40.982	0.00	0.00
ATOM	4987	HB2	SER	X	332	57.287	29.630	41.055	0.00	0.00
ATOM	4988	HB3	SER	X	332	56.240	28.427	40.537	0.00	0.00
ATOM	4989	OG	SER	X	332	55.553	30.313	40.144	0.00	0.00
ATOM	4990	HG	SER	X	332	54.719	30.044	39.753	0.00	0.00
ATOM	4991	C	SER	X	332	55.672	30.541	43.331	0.00	0.00
ATOM	4992	O	SER	X	332	56.452	30.575	44.262	0.00	0.00
ATOM	4993	N	TYR	X	333	54.943	31.568	43.114	0.00	0.00
ATOM	4994	H	TYR	X	333	54.295	31.403	42.356	0.00	0.00
ATOM	4995	CA	TYR	X	333	54.862	32.857	43.800	0.00	0.00
ATOM	4996	HA	TYR	X	333	55.829	33.352	43.882	0.00	0.00
ATOM	4997	CB	TYR	X	333	53.843	33.628	42.926	0.00	0.00
ATOM	4998	HB2	TYR	X	333	53.993	33.324	41.890	0.00	0.00
ATOM	4999	HB3	TYR	X	333	52.879	33.172	43.150	0.00	0.00
ATOM	5000	CG	TYR	X	333	53.713	35.131	43.121	0.00	0.00
ATOM	5001	CD1	TYR	X	333	54.820	35.952	42.797	0.00	0.00
ATOM	5002	HD1	TYR	X	333	55.849	35.629	42.728	0.00	0.00
ATOM	5003	CE1	TYR	X	333	54.731	37.353	42.947	0.00	0.00
ATOM	5004	HE1	TYR	X	333	55.535	38.022	42.677	0.00	0.00
ATOM	5005	CZ	TYR	X	333	53.471	37.963	43.318	0.00	0.00
ATOM	5006	OH	TYR	X	333	53.230	39.309	43.345	0.00	0.00
ATOM	5007	HH	TYR	X	333	52.344	39.631	43.524	0.00	0.00
ATOM	5008	CE2	TYR	X	333	52.318	37.134	43.591	0.00	0.00
ATOM	5009	HE2	TYR	X	333	51.348	37.537	43.842	0.00	0.00
ATOM	5010	CD2	TYR	X	333	52.528	35.717	43.575	0.00	0.00
ATOM	5011	HD2	TYR	X	333	51.679	35.068	43.731	0.00	0.00
ATOM	5012	C	TYR	X	333	54.340	32.789	45.268	0.00	0.00
ATOM	5013	O	TYR	X	333	54.519	33.691	46.079	0.00	0.00
ATOM	5014	N	PHE	X	334	53.872	31.566	45.694	0.00	0.00
ATOM	5015	H	PHE	X	334	53.842	30.804	45.031	0.00	0.00
ATOM	5016	CA	PHE	X	334	53.613	31.040	47.030	0.00	0.00
ATOM	5017	HA	PHE	X	334	53.650	31.957	47.618	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.125	30.538	47.036	0.00	0.00
ATOM	5019	HB2	PHE	X	334	52.011	29.572	46.544	0.00	0.00
ATOM	5020	HB3	PHE	X	334	51.920	30.328	48.085	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.136	31.480	46.455	0.00	0.00
ATOM	5022	CD1	PHE	X	334	50.935	31.476	45.073	0.00	0.00
ATOM	5023	HD1	PHE	X	334	51.222	30.672	44.411	0.00	0.00
ATOM	5024	CE1	PHE	X	334	50.200	32.496	44.462	0.00	0.00
ATOM	5025	HE1	PHE	X	334	50.040	32.381	43.400	0.00	0.00
ATOM	5026	CZ	PHE	X	334	49.838	33.644	45.216	0.00	0.00
ATOM	5027	HZ	PHE	X	334	49.323	34.457	44.727	0.00	0.00
ATOM	5028	CE2	PHE	X	334	49.971	33.592	46.636	0.00	0.00
ATOM	5029	HE2	PHE	X	334	49.635	34.454	47.193	0.00	0.00
ATOM	5030	CD2	PHE	X	334	50.676	32.549	47.223	0.00	0.00
ATOM	5031	HD2	PHE	X	334	50.826	32.537	48.292	0.00	0.00
ATOM	5032	C	PHE	X	334	54.606	30.139	47.657	0.00	0.00
ATOM	5033	O	PHE	X	334	54.970	30.256	48.842	0.00	0.00
ATOM	5034	N	LEU	X	335	55.060	29.110	46.882	0.00	0.00
ATOM	5035	H	LEU	X	335	54.760	29.138	45.918	0.00	0.00
ATOM	5036	CA	LEU	X	335	56.077	28.243	47.258	0.00	0.00
ATOM	5037	HA	LEU	X	335	55.703	27.734	48.147	0.00	0.00
ATOM	5038	CB	LEU	X	335	56.440	27.267	46.127	0.00	0.00
ATOM	5039	HB2	LEU	X	335	56.435	27.891	45.233	0.00	0.00
ATOM	5040	HB3	LEU	X	335	57.405	26.817	46.361	0.00	0.00
ATOM	5041	CG	LEU	X	335	55.430	26.122	46.006	0.00	0.00
ATOM	5042	HG	LEU	X	335	54.443	26.574	45.911	0.00	0.00
ATOM	5043	CD1	LEU	X	335	55.639	25.325	44.721	0.00	0.00
ATOM	5044	HD11	LEU	X	335	55.644	25.999	43.864	0.00	0.00
ATOM	5045	HD12	LEU	X	335	56.619	24.847	44.747	0.00	0.00
ATOM	5046	HD13	LEU	X	335	54.936	24.492	44.738	0.00	0.00
ATOM	5047	CD2	LEU	X	335	55.274	25.233	47.243	0.00	0.00

ATOM	5048	HD21	LEU	X	335	54.985	25.785	48.137	0.00	0.00
ATOM	5049	HD22	LEU	X	335	54.582	24.399	47.127	0.00	0.00
ATOM	5050	HD23	LEU	X	335	56.299	24.902	47.411	0.00	0.00
ATOM	5051	C	LEU	X	335	57.320	29.071	47.836	0.00	0.00
ATOM	5052	O	LEU	X	335	57.828	28.695	48.873	0.00	0.00
ATOM	5053	N	VAL	X	336	57.676	30.178	47.118	0.00	0.00
ATOM	5054	H	VAL	X	336	57.295	30.321	46.194	0.00	0.00
ATOM	5055	CA	VAL	X	336	58.736	31.071	47.517	0.00	0.00
ATOM	5056	HA	VAL	X	336	59.639	30.494	47.717	0.00	0.00
ATOM	5057	CB	VAL	X	336	59.160	32.119	46.459	0.00	0.00
ATOM	5058	HB	VAL	X	336	59.970	32.696	46.906	0.00	0.00
ATOM	5059	CG1	VAL	X	336	59.682	31.569	45.112	0.00	0.00
ATOM	5060	HG11	VAL	X	336	60.716	31.241	45.220	0.00	0.00
ATOM	5061	HG12	VAL	X	336	59.137	30.755	44.635	0.00	0.00
ATOM	5062	HG13	VAL	X	336	59.746	32.414	44.427	0.00	0.00
ATOM	5063	CG2	VAL	X	336	58.131	33.258	46.236	0.00	0.00
ATOM	5064	HG21	VAL	X	336	57.925	33.743	47.190	0.00	0.00
ATOM	5065	HG22	VAL	X	336	58.556	33.902	45.466	0.00	0.00
ATOM	5066	HG23	VAL	X	336	57.207	32.771	45.923	0.00	0.00
ATOM	5067	C	VAL	X	336	58.484	31.757	48.834	0.00	0.00
ATOM	5068	O	VAL	X	336	59.450	32.427	49.339	0.00	0.00
ATOM	5069	N	TYR	X	337	57.393	31.651	49.540	0.00	0.00
ATOM	5070	H	TYR	X	337	56.616	31.215	49.065	0.00	0.00
ATOM	5071	CA	TYR	X	337	57.156	32.155	50.871	0.00	0.00
ATOM	5072	HA	TYR	X	337	57.965	32.787	51.238	0.00	0.00
ATOM	5073	CB	TYR	X	337	55.862	32.917	50.854	0.00	0.00
ATOM	5074	HB2	TYR	X	337	55.128	32.386	50.249	0.00	0.00
ATOM	5075	HB3	TYR	X	337	55.517	32.995	51.885	0.00	0.00
ATOM	5076	CG	TYR	X	337	55.999	34.329	50.320	0.00	0.00
ATOM	5077	CD1	TYR	X	337	56.481	35.392	51.149	0.00	0.00
ATOM	5078	HD1	TYR	X	337	56.606	35.278	52.216	0.00	0.00
ATOM	5079	CE1	TYR	X	337	56.570	36.654	50.536	0.00	0.00
ATOM	5080	HE1	TYR	X	337	56.986	37.416	51.179	0.00	0.00
ATOM	5081	CZ	TYR	X	337	56.401	36.887	49.134	0.00	0.00
ATOM	5082	OH	TYR	X	337	56.584	38.134	48.652	0.00	0.00
ATOM	5083	HH	TYR	X	337	56.361	38.785	49.321	0.00	0.00
ATOM	5084	CE2	TYR	X	337	56.129	35.791	48.316	0.00	0.00
ATOM	5085	HE2	TYR	X	337	56.175	35.865	47.239	0.00	0.00
ATOM	5086	CD2	TYR	X	337	55.816	34.549	48.893	0.00	0.00
ATOM	5087	HD2	TYR	X	337	55.545	33.702	48.280	0.00	0.00
ATOM	5088	C	TYR	X	337	57.070	30.998	51.817	0.00	0.00
ATOM	5089	O	TYR	X	337	57.658	31.074	52.864	0.00	0.00
ATOM	5090	N	GLY	X	338	56.276	29.970	51.553	0.00	0.00
ATOM	5091	H	GLY	X	338	55.761	29.948	50.685	0.00	0.00
ATOM	5092	CA	GLY	X	338	55.824	29.017	52.574	0.00	0.00
ATOM	5093	HA2	GLY	X	338	55.939	29.488	53.498	0.00	0.00
ATOM	5094	HA3	GLY	X	338	54.761	28.939	52.378	0.00	0.00
ATOM	5095	C	GLY	X	338	56.388	27.592	52.543	0.00	0.00
ATOM	5096	O	GLY	X	338	56.076	26.850	53.504	0.00	0.00
ATOM	5097	N	ALA	X	339	57.110	27.204	51.407	0.00	0.00
ATOM	5098	H	ALA	X	339	57.500	27.898	50.785	0.00	0.00
ATOM	5099	CA	ALA	X	339	57.687	25.890	51.280	0.00	0.00
ATOM	5100	HA	ALA	X	339	57.335	25.306	52.131	0.00	0.00
ATOM	5101	CB	ALA	X	339	57.275	25.238	49.932	0.00	0.00
ATOM	5102	HB1	ALA	X	339	57.710	24.239	49.938	0.00	0.00
ATOM	5103	HB2	ALA	X	339	56.205	25.045	49.852	0.00	0.00
ATOM	5104	HB3	ALA	X	339	57.538	25.792	49.031	0.00	0.00
ATOM	5105	C	ALA	X	339	59.224	26.035	51.360	0.00	0.00
ATOM	5106	O	ALA	X	339	59.724	27.054	50.849	0.00	0.00
ATOM	5107	N	PRO	X	340	60.007	25.131	51.928	0.00	0.00
ATOM	5108	CD	PRO	X	340	59.556	23.866	52.570	0.00	0.00
ATOM	5109	HD2	PRO	X	340	59.115	23.218	51.813	0.00	0.00
ATOM	5110	HD3	PRO	X	340	58.920	24.195	53.392	0.00	0.00
ATOM	5111	CG	PRO	X	340	60.878	23.240	53.031	0.00	0.00
ATOM	5112	HG2	PRO	X	340	61.328	22.642	52.239	0.00	0.00
ATOM	5113	HG3	PRO	X	340	60.814	22.669	53.957	0.00	0.00
ATOM	5114	CB	PRO	X	340	61.871	24.390	53.173	0.00	0.00
ATOM	5115	HB2	PRO	X	340	62.856	23.988	52.933	0.00	0.00
ATOM	5116	HB3	PRO	X	340	61.885	24.791	54.186	0.00	0.00
ATOM	5117	CA	PRO	X	340	61.391	25.425	52.239	0.00	0.00

ATOM	5118	HA	PRO	X	340	61.367	26.360	52.799	0.00	0.00
ATOM	5119	C	PRO	X	340	62.226	25.473	50.985	0.00	0.00
ATOM	5120	O	PRO	X	340	61.980	24.794	50.000	0.00	0.00
ATOM	5121	N	GLY	X	341	63.364	26.139	51.073	0.00	0.00
ATOM	5122	H	GLY	X	341	63.447	26.802	51.831	0.00	0.00
ATOM	5123	CA	GLY	X	341	64.527	26.188	50.100	0.00	0.00
ATOM	5124	HA2	GLY	X	341	65.344	26.487	50.659	0.00	0.00
ATOM	5125	HA3	GLY	X	341	64.557	25.205	49.685	0.00	0.00
ATOM	5126	C	GLY	X	341	64.149	27.034	48.867	0.00	0.00
ATOM	5127	O	GLY	X	341	64.997	27.804	48.467	0.00	0.00
ATOM	5128	N	PHE	X	342	62.857	27.017	48.469	0.00	0.00
ATOM	5129	H	PHE	X	342	62.202	26.441	48.978	0.00	0.00
ATOM	5130	CA	PHE	X	342	62.299	27.788	47.320	0.00	0.00
ATOM	5131	HA	PHE	X	342	62.616	27.380	46.360	0.00	0.00
ATOM	5132	CB	PHE	X	342	60.733	27.673	47.309	0.00	0.00
ATOM	5133	HB2	PHE	X	342	60.395	27.711	48.345	0.00	0.00
ATOM	5134	HB3	PHE	X	342	60.328	28.493	46.716	0.00	0.00
ATOM	5135	CG	PHE	X	342	60.133	26.471	46.691	0.00	0.00
ATOM	5136	CD1	PHE	X	342	59.926	26.376	45.343	0.00	0.00
ATOM	5137	HD1	PHE	X	342	60.202	27.111	44.601	0.00	0.00
ATOM	5138	CE1	PHE	X	342	59.452	25.212	44.776	0.00	0.00
ATOM	5139	HE1	PHE	X	342	59.380	25.130	43.702	0.00	0.00
ATOM	5140	CZ	PHE	X	342	59.095	24.094	45.590	0.00	0.00
ATOM	5141	HZ	PHE	X	342	58.845	23.164	45.102	0.00	0.00
ATOM	5142	CE2	PHE	X	342	59.333	24.179	46.947	0.00	0.00
ATOM	5143	HE2	PHE	X	342	59.175	23.317	47.578	0.00	0.00
ATOM	5144	CD2	PHE	X	342	59.803	25.388	47.502	0.00	0.00
ATOM	5145	HD2	PHE	X	342	60.030	25.478	48.554	0.00	0.00
ATOM	5146	C	PHE	X	342	62.654	29.319	47.395	0.00	0.00
ATOM	5147	O	PHE	X	342	62.396	29.904	48.474	0.00	0.00
ATOM	5148	N	SER	X	343	63.069	29.940	46.313	0.00	0.00
ATOM	5149	H	SER	X	343	63.199	29.344	45.508	0.00	0.00
ATOM	5150	CA	SER	X	343	63.553	31.304	46.202	0.00	0.00
ATOM	5151	HA	SER	X	343	62.745	31.788	46.749	0.00	0.00
ATOM	5152	CB	SER	X	343	64.723	31.511	47.143	0.00	0.00
ATOM	5153	HB2	SER	X	343	64.520	32.065	48.059	0.00	0.00
ATOM	5154	HB3	SER	X	343	64.986	30.564	47.614	0.00	0.00
ATOM	5155	OG	SER	X	343	65.900	32.082	46.527	0.00	0.00
ATOM	5156	HG	SER	X	343	66.475	32.389	47.231	0.00	0.00
ATOM	5157	C	SER	X	343	63.611	31.908	44.832	0.00	0.00
ATOM	5158	O	SER	X	343	63.669	31.223	43.801	0.00	0.00
ATOM	5159	N	LYS	X	344	63.564	33.267	44.847	0.00	0.00
ATOM	5160	H	LYS	X	344	63.674	33.712	45.747	0.00	0.00
ATOM	5161	CA	LYS	X	344	63.862	34.047	43.634	0.00	0.00
ATOM	5162	HA	LYS	X	344	63.205	33.631	42.870	0.00	0.00
ATOM	5163	CB	LYS	X	344	63.454	35.534	43.908	0.00	0.00
ATOM	5164	HB2	LYS	X	344	63.338	36.059	42.960	0.00	0.00
ATOM	5165	HB3	LYS	X	344	62.498	35.578	44.430	0.00	0.00
ATOM	5166	CG	LYS	X	344	64.229	36.484	44.947	0.00	0.00
ATOM	5167	HG2	LYS	X	344	63.551	37.304	45.185	0.00	0.00
ATOM	5168	HG3	LYS	X	344	64.371	35.964	45.894	0.00	0.00
ATOM	5169	CD	LYS	X	344	65.538	36.973	44.326	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.325	36.220	44.302	0.00	0.00
ATOM	5171	HD3	LYS	X	344	65.289	37.478	43.393	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.073	37.960	45.365	0.00	0.00
ATOM	5173	HE2	LYS	X	344	65.226	38.636	45.480	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.242	37.448	46.312	0.00	0.00
ATOM	5175	NZ	LYS	X	344	67.297	38.658	44.946	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	67.385	38.887	43.966	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	67.415	39.539	45.426	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.080	38.054	45.155	0.00	0.00
ATOM	5179	C	LYS	X	344	65.248	33.980	42.994	0.00	0.00
ATOM	5180	O	LYS	X	344	65.490	34.570	41.957	0.00	0.00
ATOM	5181	N	ASP	X	345	66.157	33.276	43.704	0.00	0.00
ATOM	5182	H	ASP	X	345	65.776	32.629	44.380	0.00	0.00
ATOM	5183	CA	ASP	X	345	67.575	33.145	43.324	0.00	0.00
ATOM	5184	HA	ASP	X	345	67.534	33.397	42.265	0.00	0.00
ATOM	5185	CB	ASP	X	345	68.429	34.082	44.173	0.00	0.00
ATOM	5186	HB2	ASP	X	345	68.063	35.066	43.882	0.00	0.00
ATOM	5187	HB3	ASP	X	345	68.205	33.956	45.232	0.00	0.00

ATOM	5188	CG	ASP	X	345	69.934	34.018	44.055	0.00	0.00
ATOM	5189	OD1	ASP	X	345	70.609	33.881	45.131	0.00	0.00
ATOM	5190	OD2	ASP	X	345	70.509	34.192	42.956	0.00	0.00
ATOM	5191	C	ASP	X	345	68.004	31.666	43.470	0.00	0.00
ATOM	5192	O	ASP	X	345	68.733	31.194	42.578	0.00	0.00
ATOM	5193	N	ASN	X	346	67.460	30.903	44.387	0.00	0.00
ATOM	5194	H	ASN	X	346	66.704	31.330	44.903	0.00	0.00
ATOM	5195	CA	ASN	X	346	67.730	29.440	44.652	0.00	0.00
ATOM	5196	HA	ASN	X	346	68.803	29.285	44.534	0.00	0.00
ATOM	5197	CB	ASN	X	346	67.299	29.087	46.060	0.00	0.00
ATOM	5198	HB2	ASN	X	346	67.822	29.781	46.717	0.00	0.00
ATOM	5199	HB3	ASN	X	346	66.217	29.210	46.122	0.00	0.00
ATOM	5200	CG	ASN	X	346	67.654	27.652	46.431	0.00	0.00
ATOM	5201	OD1	ASN	X	346	67.035	26.651	46.117	0.00	0.00
ATOM	5202	ND2	ASN	X	346	68.758	27.424	47.113	0.00	0.00
ATOM	5203	HD21	ASN	X	346	69.018	26.449	47.166	0.00	0.00
ATOM	5204	HD22	ASN	X	346	69.412	28.160	47.338	0.00	0.00
ATOM	5205	C	ASN	X	346	66.982	28.551	43.600	0.00	0.00
ATOM	5206	O	ASN	X	346	65.777	28.755	43.392	0.00	0.00
ATOM	5207	N	GLU	X	347	67.609	27.494	42.972	0.00	0.00
ATOM	5208	H	GLU	X	347	68.602	27.394	43.125	0.00	0.00
ATOM	5209	CA	GLU	X	347	67.033	26.651	41.888	0.00	0.00
ATOM	5210	HA	GLU	X	347	66.439	27.298	41.242	0.00	0.00
ATOM	5211	CB	GLU	X	347	68.126	25.903	41.056	0.00	0.00
ATOM	5212	HB2	GLU	X	347	68.614	25.197	41.728	0.00	0.00
ATOM	5213	HB3	GLU	X	347	67.637	25.259	40.325	0.00	0.00
ATOM	5214	CG	GLU	X	347	69.188	26.764	40.492	0.00	0.00
ATOM	5215	HG2	GLU	X	347	68.734	27.442	39.769	0.00	0.00
ATOM	5216	HG3	GLU	X	347	69.646	27.235	41.362	0.00	0.00
ATOM	5217	CD	GLU	X	347	70.313	26.064	39.749	0.00	0.00
ATOM	5218	OE1	GLU	X	347	70.042	24.999	39.173	0.00	0.00
ATOM	5219	OE2	GLU	X	347	71.438	26.674	39.617	0.00	0.00
ATOM	5220	C	GLU	X	347	65.847	25.754	42.385	0.00	0.00
ATOM	5221	O	GLU	X	347	65.203	25.168	41.502	0.00	0.00
ATOM	5222	N	SER	X	348	65.582	25.719	43.678	0.00	0.00
ATOM	5223	H	SER	X	348	66.233	26.164	44.308	0.00	0.00
ATOM	5224	CA	SER	X	348	64.387	25.150	44.255	0.00	0.00
ATOM	5225	HA	SER	X	348	64.398	25.153	45.345	0.00	0.00
ATOM	5226	CB	SER	X	348	63.098	25.983	43.874	0.00	0.00
ATOM	5227	HB2	SER	X	348	62.886	25.841	42.815	0.00	0.00
ATOM	5228	HB3	SER	X	348	62.276	25.590	44.473	0.00	0.00
ATOM	5229	OG	SER	X	348	63.405	27.351	44.182	0.00	0.00
ATOM	5230	HG	SER	X	348	64.073	27.657	43.565	0.00	0.00
ATOM	5231	C	SER	X	348	64.158	23.649	43.973	0.00	0.00
ATOM	5232	O	SER	X	348	62.997	23.201	43.917	0.00	0.00
ATOM	5233	N	LEU	X	349	65.182	22.818	43.601	0.00	0.00
ATOM	5234	H	LEU	X	349	65.993	23.372	43.366	0.00	0.00
ATOM	5235	CA	LEU	X	349	65.199	21.354	43.334	0.00	0.00
ATOM	5236	HA	LEU	X	349	64.325	20.977	42.804	0.00	0.00
ATOM	5237	CB	LEU	X	349	66.511	21.048	42.673	0.00	0.00
ATOM	5238	HB2	LEU	X	349	67.274	21.305	43.408	0.00	0.00
ATOM	5239	HB3	LEU	X	349	66.519	19.963	42.569	0.00	0.00
ATOM	5240	CG	LEU	X	349	66.663	21.819	41.344	0.00	0.00
ATOM	5241	HG	LEU	X	349	66.583	22.883	41.566	0.00	0.00
ATOM	5242	CD1	LEU	X	349	68.091	21.675	40.869	0.00	0.00
ATOM	5243	HD11	LEU	X	349	68.203	22.423	40.083	0.00	0.00
ATOM	5244	HD12	LEU	X	349	68.745	21.803	41.732	0.00	0.00
ATOM	5245	HD13	LEU	X	349	68.322	20.712	40.413	0.00	0.00
ATOM	5246	CD2	LEU	X	349	65.544	21.322	40.382	0.00	0.00
ATOM	5247	HD21	LEU	X	349	65.616	20.247	40.213	0.00	0.00
ATOM	5248	HD22	LEU	X	349	64.558	21.421	40.835	0.00	0.00
ATOM	5249	HD23	LEU	X	349	65.742	21.834	39.441	0.00	0.00
ATOM	5250	C	LEU	X	349	65.113	20.512	44.615	0.00	0.00
ATOM	5251	O	LEU	X	349	65.630	20.820	45.671	0.00	0.00
ATOM	5252	N	ILE	X	350	64.310	19.418	44.498	0.00	0.00
ATOM	5253	H	ILE	X	350	63.985	19.267	43.554	0.00	0.00
ATOM	5254	CA	ILE	X	350	63.776	18.614	45.654	0.00	0.00
ATOM	5255	HA	ILE	X	350	64.391	18.866	46.518	0.00	0.00
ATOM	5256	CB	ILE	X	350	62.296	18.984	45.963	0.00	0.00
ATOM	5257	HB	ILE	X	350	62.003	18.310	46.768	0.00	0.00

ATOM	5258	CG2	ILE	X	350	62.286	20.346	46.683	0.00	0.00
ATOM	5259	HG21	ILE	X	350	62.516	21.129	45.960	0.00	0.00
ATOM	5260	HG22	ILE	X	350	61.339	20.482	47.205	0.00	0.00
ATOM	5261	HG23	ILE	X	350	63.072	20.306	47.437	0.00	0.00
ATOM	5262	CG1	ILE	X	350	61.261	18.811	44.857	0.00	0.00
ATOM	5263	HG12	ILE	X	350	61.419	19.511	44.036	0.00	0.00
ATOM	5264	HG13	ILE	X	350	61.376	17.784	44.508	0.00	0.00
ATOM	5265	CD1	ILE	X	350	59.860	19.040	45.399	0.00	0.00
ATOM	5266	HD11	ILE	X	350	59.102	19.118	44.620	0.00	0.00
ATOM	5267	HD12	ILE	X	350	59.725	18.263	46.152	0.00	0.00
ATOM	5268	HD13	ILE	X	350	59.842	19.991	45.933	0.00	0.00
ATOM	5269	C	ILE	X	350	63.854	17.093	45.445	0.00	0.00
ATOM	5270	O	ILE	X	350	63.587	16.623	44.374	0.00	0.00
ATOM	5271	N	SER	X	351	64.244	16.307	46.506	0.00	0.00
ATOM	5272	H	SER	X	351	64.593	16.690	47.372	0.00	0.00
ATOM	5273	CA	SER	X	351	64.049	14.871	46.516	0.00	0.00
ATOM	5274	HA	SER	X	351	64.481	14.506	45.585	0.00	0.00
ATOM	5275	CB	SER	X	351	64.764	14.196	47.688	0.00	0.00
ATOM	5276	HB2	SER	X	351	64.697	13.112	47.602	0.00	0.00
ATOM	5277	HB3	SER	X	351	65.800	14.534	47.735	0.00	0.00
ATOM	5278	OG	SER	X	351	64.208	14.661	48.911	0.00	0.00
ATOM	5279	HG	SER	X	351	64.593	15.538	48.977	0.00	0.00
ATOM	5280	C	SER	X	351	62.527	14.485	46.452	0.00	0.00
ATOM	5281	O	SER	X	351	61.655	15.315	46.635	0.00	0.00
ATOM	5282	N	ARG	X	352	62.165	13.213	46.219	0.00	0.00
ATOM	5283	H	ARG	X	352	62.816	12.448	46.113	0.00	0.00
ATOM	5284	CA	ARG	X	352	60.763	12.713	46.198	0.00	0.00
ATOM	5285	HA	ARG	X	352	60.163	13.429	45.638	0.00	0.00
ATOM	5286	CB	ARG	X	352	60.649	11.382	45.440	0.00	0.00
ATOM	5287	HB2	ARG	X	352	61.251	11.502	44.539	0.00	0.00
ATOM	5288	HB3	ARG	X	352	61.039	10.557	46.036	0.00	0.00
ATOM	5289	CG	ARG	X	352	59.259	11.040	45.002	0.00	0.00
ATOM	5290	HG2	ARG	X	352	58.632	11.004	45.893	0.00	0.00
ATOM	5291	HG3	ARG	X	352	58.822	11.759	44.309	0.00	0.00
ATOM	5292	CD	ARG	X	352	59.206	9.643	44.331	0.00	0.00
ATOM	5293	HD2	ARG	X	352	59.671	9.660	43.345	0.00	0.00
ATOM	5294	HD3	ARG	X	352	59.782	8.920	44.907	0.00	0.00
ATOM	5295	NE	ARG	X	352	57.821	9.170	44.209	0.00	0.00
ATOM	5296	HE	ARG	X	352	57.519	8.404	44.794	0.00	0.00
ATOM	5297	CZ	ARG	X	352	56.939	9.618	43.385	0.00	0.00
ATOM	5298	NH1	ARG	X	352	57.117	10.536	42.528	0.00	0.00
ATOM	5299	HH11	ARG	X	352	57.966	11.062	42.380	0.00	0.00
ATOM	5300	HH12	ARG	X	352	56.375	10.586	41.844	0.00	0.00
ATOM	5301	NH2	ARG	X	352	55.750	8.987	43.385	0.00	0.00
ATOM	5302	HH21	ARG	X	352	55.653	8.125	43.903	0.00	0.00
ATOM	5303	HH22	ARG	X	352	55.043	9.306	42.739	0.00	0.00
ATOM	5304	C	ARG	X	352	60.069	12.754	47.587	0.00	0.00
ATOM	5305	O	ARG	X	352	58.822	12.869	47.705	0.00	0.00
ATOM	5306	N	ALA	X	353	60.809	12.707	48.701	0.00	0.00
ATOM	5307	H	ALA	X	353	61.771	12.439	48.557	0.00	0.00
ATOM	5308	CA	ALA	X	353	60.327	12.825	50.041	0.00	0.00
ATOM	5309	HA	ALA	X	353	59.281	12.541	50.150	0.00	0.00
ATOM	5310	CB	ALA	X	353	61.178	11.903	50.965	0.00	0.00
ATOM	5311	HB1	ALA	X	353	62.231	12.175	50.893	0.00	0.00
ATOM	5312	HB2	ALA	X	353	60.775	11.997	51.973	0.00	0.00
ATOM	5313	HB3	ALA	X	353	60.964	10.851	50.779	0.00	0.00
ATOM	5314	C	ALA	X	353	60.189	14.296	50.483	0.00	0.00
ATOM	5315	O	ALA	X	353	59.178	14.638	51.069	0.00	0.00
ATOM	5316	N	GLU	X	354	61.003	15.195	49.980	0.00	0.00
ATOM	5317	H	GLU	X	354	61.757	14.973	49.345	0.00	0.00
ATOM	5318	CA	GLU	X	354	60.707	16.620	50.158	0.00	0.00
ATOM	5319	HA	GLU	X	354	60.463	16.852	51.194	0.00	0.00
ATOM	5320	CB	GLU	X	354	62.010	17.397	49.765	0.00	0.00
ATOM	5321	HB2	GLU	X	354	62.389	17.118	48.782	0.00	0.00
ATOM	5322	HB3	GLU	X	354	61.776	18.461	49.785	0.00	0.00
ATOM	5323	CG	GLU	X	354	63.211	17.301	50.802	0.00	0.00
ATOM	5324	HG2	GLU	X	354	63.082	17.890	51.710	0.00	0.00
ATOM	5325	HG3	GLU	X	354	63.360	16.253	51.064	0.00	0.00
ATOM	5326	CD	GLU	X	354	64.514	17.789	50.103	0.00	0.00
ATOM	5327	OE1	GLU	X	354	64.902	18.986	50.193	0.00	0.00

ATOM	5328	OE2	GLU	X	354	65.062	17.015	49.257	0.00	0.00
ATOM	5329	C	GLU	X	354	59.530	17.142	49.250	0.00	0.00
ATOM	5330	O	GLU	X	354	58.777	18.018	49.682	0.00	0.00
ATOM	5331	N	PHE	X	355	59.175	16.510	48.115	0.00	0.00
ATOM	5332	H	PHE	X	355	59.835	15.870	47.697	0.00	0.00
ATOM	5333	CA	PHE	X	355	57.910	16.620	47.436	0.00	0.00
ATOM	5334	HA	PHE	X	355	57.808	17.697	47.306	0.00	0.00
ATOM	5335	CB	PHE	X	355	58.026	15.806	46.119	0.00	0.00
ATOM	5336	HB2	PHE	X	355	58.764	16.347	45.527	0.00	0.00
ATOM	5337	HB3	PHE	X	355	58.376	14.804	46.369	0.00	0.00
ATOM	5338	CG	PHE	X	355	56.840	15.761	45.216	0.00	0.00
ATOM	5339	CD1	PHE	X	355	56.038	16.897	45.048	0.00	0.00
ATOM	5340	HD1	PHE	X	355	56.243	17.801	45.602	0.00	0.00
ATOM	5341	CE1	PHE	X	355	55.001	16.839	44.085	0.00	0.00
ATOM	5342	HE1	PHE	X	355	54.320	17.634	43.823	0.00	0.00
ATOM	5343	CZ	PHE	X	355	54.729	15.664	43.378	0.00	0.00
ATOM	5344	HZ	PHE	X	355	53.893	15.660	42.695	0.00	0.00
ATOM	5345	CE2	PHE	X	355	55.516	14.521	43.565	0.00	0.00
ATOM	5346	HE2	PHE	X	355	55.243	13.586	43.098	0.00	0.00
ATOM	5347	CD2	PHE	X	355	56.530	14.622	44.497	0.00	0.00
ATOM	5348	HD2	PHE	X	355	57.054	13.698	44.690	0.00	0.00
ATOM	5349	C	PHE	X	355	56.733	16.153	48.294	0.00	0.00
ATOM	5350	O	PHE	X	355	55.857	17.007	48.349	0.00	0.00
ATOM	5351	N	LEU	X	356	56.769	15.016	49.031	0.00	0.00
ATOM	5352	H	LEU	X	356	57.543	14.378	48.915	0.00	0.00
ATOM	5353	CA	LEU	X	356	55.697	14.571	49.937	0.00	0.00
ATOM	5354	HA	LEU	X	356	54.704	14.502	49.493	0.00	0.00
ATOM	5355	CB	LEU	X	356	56.069	13.156	50.515	0.00	0.00
ATOM	5356	HB2	LEU	X	356	56.135	12.468	49.672	0.00	0.00
ATOM	5357	HB3	LEU	X	356	57.076	13.209	50.928	0.00	0.00
ATOM	5358	CG	LEU	X	356	55.068	12.551	51.537	0.00	0.00
ATOM	5359	HG	LEU	X	356	55.061	13.314	52.314	0.00	0.00
ATOM	5360	CD1	LEU	X	356	53.662	12.376	50.934	0.00	0.00
ATOM	5361	HD11	LEU	X	356	52.970	11.819	51.566	0.00	0.00
ATOM	5362	HD12	LEU	X	356	53.260	13.366	50.718	0.00	0.00
ATOM	5363	HD13	LEU	X	356	53.823	11.808	50.018	0.00	0.00
ATOM	5364	CD2	LEU	X	356	55.625	11.203	52.024	0.00	0.00
ATOM	5365	HD21	LEU	X	356	55.679	10.523	51.174	0.00	0.00
ATOM	5366	HD22	LEU	X	356	56.621	11.260	52.463	0.00	0.00
ATOM	5367	HD23	LEU	X	356	54.869	10.907	52.751	0.00	0.00
ATOM	5368	C	LEU	X	356	55.502	15.633	51.062	0.00	0.00
ATOM	5369	O	LEU	X	356	54.405	16.150	51.221	0.00	0.00
ATOM	5370	N	ALA	X	357	56.589	16.095	51.702	0.00	0.00
ATOM	5371	H	ALA	X	357	57.529	15.880	51.400	0.00	0.00
ATOM	5372	CA	ALA	X	357	56.536	17.129	52.715	0.00	0.00
ATOM	5373	HA	ALA	X	357	55.731	16.847	53.393	0.00	0.00
ATOM	5374	CB	ALA	X	357	57.900	17.128	53.405	0.00	0.00
ATOM	5375	HB1	ALA	X	357	58.718	17.212	52.690	0.00	0.00
ATOM	5376	HB2	ALA	X	357	57.940	18.067	53.957	0.00	0.00
ATOM	5377	HB3	ALA	X	357	57.914	16.273	54.082	0.00	0.00
ATOM	5378	C	ALA	X	357	56.026	18.459	52.167	0.00	0.00
ATOM	5379	O	ALA	X	357	55.312	19.245	52.721	0.00	0.00
ATOM	5380	N	GLY	X	358	56.404	18.729	50.936	0.00	0.00
ATOM	5381	H	GLY	X	358	57.074	18.062	50.582	0.00	0.00
ATOM	5382	CA	GLY	X	358	55.951	19.857	50.146	0.00	0.00
ATOM	5383	HA2	GLY	X	358	56.330	20.750	50.656	0.00	0.00
ATOM	5384	HA3	GLY	X	358	56.480	19.784	49.145	0.00	0.00
ATOM	5385	C	GLY	X	358	54.472	19.903	49.849	0.00	0.00
ATOM	5386	O	GLY	X	358	53.731	20.841	50.065	0.00	0.00
ATOM	5387	N	VAL	X	359	53.966	18.811	49.338	0.00	0.00
ATOM	5388	H	VAL	X	359	54.622	18.082	49.093	0.00	0.00
ATOM	5389	CA	VAL	X	359	52.568	18.523	49.172	0.00	0.00
ATOM	5390	HA	VAL	X	359	52.046	19.199	48.495	0.00	0.00
ATOM	5391	CB	VAL	X	359	52.247	17.103	48.607	0.00	0.00
ATOM	5392	HB	VAL	X	359	52.845	16.367	49.144	0.00	0.00
ATOM	5393	CG1	VAL	X	359	50.799	16.611	48.743	0.00	0.00
ATOM	5394	HG11	VAL	X	359	50.682	15.600	48.353	0.00	0.00
ATOM	5395	HG12	VAL	X	359	50.574	16.551	49.808	0.00	0.00
ATOM	5396	HG13	VAL	X	359	50.089	17.258	48.228	0.00	0.00
ATOM	5397	CG2	VAL	X	359	52.669	17.085	47.124	0.00	0.00

ATOM	5398	HG21	VAL	X	359	52.325	16.144	46.694	0.00	0.00
ATOM	5399	HG22	VAL	X	359	52.228	17.951	46.630	0.00	0.00
ATOM	5400	HG23	VAL	X	359	53.738	17.246	46.983	0.00	0.00
ATOM	5401	C	VAL	X	359	51.852	18.831	50.526	0.00	0.00
ATOM	5402	O	VAL	X	359	50.756	19.490	50.541	0.00	0.00
ATOM	5403	N	ARG	X	360	52.491	18.337	51.603	0.00	0.00
ATOM	5404	H	ARG	X	360	53.306	17.751	51.484	0.00	0.00
ATOM	5405	CA	ARG	X	360	51.958	18.446	52.976	0.00	0.00
ATOM	5406	HA	ARG	X	360	50.934	18.107	52.823	0.00	0.00
ATOM	5407	CB	ARG	X	360	52.613	17.485	53.962	0.00	0.00
ATOM	5408	HB2	ARG	X	360	53.659	17.587	53.675	0.00	0.00
ATOM	5409	HB3	ARG	X	360	52.446	17.805	54.991	0.00	0.00
ATOM	5410	CG	ARG	X	360	52.274	15.937	53.902	0.00	0.00
ATOM	5411	HG2	ARG	X	360	52.392	15.536	52.895	0.00	0.00
ATOM	5412	HG3	ARG	X	360	53.052	15.449	54.489	0.00	0.00
ATOM	5413	CD	ARG	X	360	50.850	15.687	54.382	0.00	0.00
ATOM	5414	HD2	ARG	X	360	50.159	16.116	53.656	0.00	0.00
ATOM	5415	HD3	ARG	X	360	50.715	14.606	54.422	0.00	0.00
ATOM	5416	NE	ARG	X	360	50.498	16.235	55.714	0.00	0.00
ATOM	5417	HE	ARG	X	360	49.996	17.105	55.822	0.00	0.00
ATOM	5418	CZ	ARG	X	360	50.222	15.439	56.785	0.00	0.00
ATOM	5419	NH1	ARG	X	360	50.499	14.129	56.916	0.00	0.00
ATOM	5420	HH11	ARG	X	360	50.981	13.661	56.162	0.00	0.00
ATOM	5421	HH12	ARG	X	360	50.201	13.511	57.658	0.00	0.00
ATOM	5422	NH2	ARG	X	360	49.638	16.040	57.790	0.00	0.00
ATOM	5423	HH21	ARG	X	360	49.514	17.031	57.637	0.00	0.00
ATOM	5424	HH22	ARG	X	360	49.651	15.725	58.749	0.00	0.00
ATOM	5425	C	ARG	X	360	51.911	19.878	53.648	0.00	0.00
ATOM	5426	O	ARG	X	360	51.055	20.170	54.426	0.00	0.00
ATOM	5427	N	VAL	X	361	52.862	20.829	53.257	0.00	0.00
ATOM	5428	H	VAL	X	361	53.659	20.456	52.760	0.00	0.00
ATOM	5429	CA	VAL	X	361	52.693	22.297	53.530	0.00	0.00
ATOM	5430	HA	VAL	X	361	52.351	22.462	54.551	0.00	0.00
ATOM	5431	CB	VAL	X	361	54.035	23.042	53.541	0.00	0.00
ATOM	5432	HB	VAL	X	361	53.768	24.099	53.520	0.00	0.00
ATOM	5433	CG1	VAL	X	361	54.750	22.672	54.828	0.00	0.00
ATOM	5434	HG11	VAL	X	361	54.184	22.245	55.655	0.00	0.00
ATOM	5435	HG12	VAL	X	361	55.373	21.824	54.543	0.00	0.00
ATOM	5436	HG13	VAL	X	361	55.303	23.534	55.202	0.00	0.00
ATOM	5437	CG2	VAL	X	361	54.893	22.837	52.263	0.00	0.00
ATOM	5438	HG21	VAL	X	361	55.141	21.800	52.037	0.00	0.00
ATOM	5439	HG22	VAL	X	361	54.454	23.278	51.367	0.00	0.00
ATOM	5440	HG23	VAL	X	361	55.826	23.378	52.425	0.00	0.00
ATOM	5441	C	VAL	X	361	51.788	23.006	52.444	0.00	0.00
ATOM	5442	O	VAL	X	361	51.132	24.026	52.783	0.00	0.00
ATOM	5443	N	GLY	X	362	51.683	22.473	51.183	0.00	0.00
ATOM	5444	H	GLY	X	362	52.343	21.750	50.931	0.00	0.00
ATOM	5445	CA	GLY	X	362	50.982	23.237	50.083	0.00	0.00
ATOM	5446	HA2	GLY	X	362	51.137	24.305	50.215	0.00	0.00
ATOM	5447	HA3	GLY	X	362	51.363	22.786	49.144	0.00	0.00
ATOM	5448	C	GLY	X	362	49.485	23.093	49.945	0.00	0.00
ATOM	5449	O	GLY	X	362	48.742	23.929	49.536	0.00	0.00
ATOM	5450	N	VAL	X	363	49.059	21.909	50.281	0.00	0.00
ATOM	5451	H	VAL	X	363	49.802	21.269	50.524	0.00	0.00
ATOM	5452	CA	VAL	X	363	47.661	21.426	50.157	0.00	0.00
ATOM	5453	HA	VAL	X	363	47.234	22.149	49.461	0.00	0.00
ATOM	5454	CB	VAL	X	363	47.473	20.008	49.597	0.00	0.00
ATOM	5455	HB	VAL	X	363	47.726	19.309	50.394	0.00	0.00
ATOM	5456	CG1	VAL	X	363	45.974	19.888	49.369	0.00	0.00
ATOM	5457	HG11	VAL	X	363	45.573	20.025	50.373	0.00	0.00
ATOM	5458	HG12	VAL	X	363	45.601	20.657	48.693	0.00	0.00
ATOM	5459	HG13	VAL	X	363	45.626	18.942	48.953	0.00	0.00
ATOM	5460	CG2	VAL	X	363	48.341	19.664	48.342	0.00	0.00
ATOM	5461	HG21	VAL	X	363	48.026	18.742	47.854	0.00	0.00
ATOM	5462	HG22	VAL	X	363	48.261	20.429	47.570	0.00	0.00
ATOM	5463	HG23	VAL	X	363	49.416	19.605	48.512	0.00	0.00
ATOM	5464	C	VAL	X	363	47.094	21.629	51.592	0.00	0.00
ATOM	5465	O	VAL	X	363	47.704	21.164	52.519	0.00	0.00
ATOM	5466	N	PRO	X	364	46.026	22.440	51.705	0.00	0.00
ATOM	5467	CD	PRO	X	364	45.376	23.251	50.640	0.00	0.00

ATOM	5468	HD2	PRO	X	364	45.137	22.655	49.759	0.00	0.00
ATOM	5469	HD3	PRO	X	364	45.993	24.122	50.419	0.00	0.00
ATOM	5470	CG	PRO	X	364	44.177	23.874	51.310	0.00	0.00
ATOM	5471	HG2	PRO	X	364	43.329	23.190	51.262	0.00	0.00
ATOM	5472	HG3	PRO	X	364	43.732	24.812	50.979	0.00	0.00
ATOM	5473	CB	PRO	X	364	44.545	23.982	52.771	0.00	0.00
ATOM	5474	HB2	PRO	X	364	43.658	23.922	53.402	0.00	0.00
ATOM	5475	HB3	PRO	X	364	45.022	24.938	52.985	0.00	0.00
ATOM	5476	CA	PRO	X	364	45.419	22.724	52.984	0.00	0.00
ATOM	5477	HA	PRO	X	364	46.210	23.094	53.636	0.00	0.00
ATOM	5478	C	PRO	X	364	44.562	21.548	53.525	0.00	0.00
ATOM	5479	O	PRO	X	364	44.063	20.715	52.741	0.00	0.00
ATOM	5480	N	GLN	X	365	44.360	21.382	54.826	0.00	0.00
ATOM	5481	H	GLN	X	365	44.886	21.998	55.429	0.00	0.00
ATOM	5482	CA	GLN	X	365	43.507	20.373	55.455	0.00	0.00
ATOM	5483	HA	GLN	X	365	43.503	20.537	56.532	0.00	0.00
ATOM	5484	CB	GLN	X	365	42.053	20.523	55.002	0.00	0.00
ATOM	5485	HB2	GLN	X	365	41.905	20.213	53.968	0.00	0.00
ATOM	5486	HB3	GLN	X	365	41.463	19.770	55.526	0.00	0.00
ATOM	5487	CG	GLN	X	365	41.493	21.868	55.407	0.00	0.00
ATOM	5488	HG2	GLN	X	365	41.854	22.015	56.425	0.00	0.00
ATOM	5489	HG3	GLN	X	365	42.047	22.672	54.923	0.00	0.00
ATOM	5490	CD	GLN	X	365	39.970	21.976	55.286	0.00	0.00
ATOM	5491	OE1	GLN	X	365	39.410	21.954	54.207	0.00	0.00
ATOM	5492	NE2	GLN	X	365	39.189	22.077	56.303	0.00	0.00
ATOM	5493	HE21	GLN	X	365	38.260	22.357	56.023	0.00	0.00
ATOM	5494	HE22	GLN	X	365	39.536	21.932	57.240	0.00	0.00
ATOM	5495	C	GLN	X	365	44.105	18.973	55.240	0.00	0.00
ATOM	5496	O	GLN	X	365	43.348	18.010	55.364	0.00	0.00
ATOM	5497	N	VAL	X	366	45.369	18.843	54.773	0.00	0.00
ATOM	5498	H	VAL	X	366	45.826	19.741	54.717	0.00	0.00
ATOM	5499	CA	VAL	X	366	45.783	17.588	54.111	0.00	0.00
ATOM	5500	HA	VAL	X	366	44.921	17.356	53.485	0.00	0.00
ATOM	5501	CB	VAL	X	366	46.935	17.850	53.130	0.00	0.00
ATOM	5502	HB	VAL	X	366	46.702	18.694	52.481	0.00	0.00
ATOM	5503	CG1	VAL	X	366	48.194	18.436	53.845	0.00	0.00
ATOM	5504	HG11	VAL	X	366	48.948	18.646	53.087	0.00	0.00
ATOM	5505	HG12	VAL	X	366	47.859	19.358	54.321	0.00	0.00
ATOM	5506	HG13	VAL	X	366	48.625	17.705	54.529	0.00	0.00
ATOM	5507	CG2	VAL	X	366	47.531	16.677	52.284	0.00	0.00
ATOM	5508	HG21	VAL	X	366	48.108	17.139	51.482	0.00	0.00
ATOM	5509	HG22	VAL	X	366	48.233	16.117	52.902	0.00	0.00
ATOM	5510	HG23	VAL	X	366	46.816	15.897	52.023	0.00	0.00
ATOM	5511	C	VAL	X	366	46.063	16.563	55.170	0.00	0.00
ATOM	5512	O	VAL	X	366	46.313	16.910	56.319	0.00	0.00
ATOM	5513	N	SER	X	367	46.140	15.340	54.750	0.00	0.00
ATOM	5514	H	SER	X	367	45.820	15.151	53.811	0.00	0.00
ATOM	5515	CA	SER	X	367	46.458	14.140	55.507	0.00	0.00
ATOM	5516	HA	SER	X	367	46.834	14.424	56.490	0.00	0.00
ATOM	5517	CB	SER	X	367	45.161	13.355	55.812	0.00	0.00
ATOM	5518	HB2	SER	X	367	45.312	12.610	56.592	0.00	0.00
ATOM	5519	HB3	SER	X	367	44.434	14.131	56.050	0.00	0.00
ATOM	5520	OG	SER	X	367	44.713	12.617	54.653	0.00	0.00
ATOM	5521	HG	SER	X	367	43.886	12.172	54.852	0.00	0.00
ATOM	5522	C	SER	X	367	47.572	13.345	54.833	0.00	0.00
ATOM	5523	O	SER	X	367	47.963	13.539	53.682	0.00	0.00
ATOM	5524	N	ASP	X	368	48.038	12.326	55.551	0.00	0.00
ATOM	5525	H	ASP	X	368	47.564	12.057	56.402	0.00	0.00
ATOM	5526	CA	ASP	X	368	49.115	11.426	55.028	0.00	0.00
ATOM	5527	HA	ASP	X	368	49.995	12.062	54.926	0.00	0.00
ATOM	5528	CB	ASP	X	368	49.510	10.308	56.022	0.00	0.00
ATOM	5529	HB2	ASP	X	368	49.641	10.782	56.995	0.00	0.00
ATOM	5530	HB3	ASP	X	368	48.721	9.573	56.179	0.00	0.00
ATOM	5531	CG	ASP	X	368	50.875	9.642	55.697	0.00	0.00
ATOM	5532	OD1	ASP	X	368	51.965	10.250	56.055	0.00	0.00
ATOM	5533	OD2	ASP	X	368	50.857	8.443	55.323	0.00	0.00
ATOM	5534	C	ASP	X	368	48.633	10.793	53.725	0.00	0.00
ATOM	5535	O	ASP	X	368	49.341	10.833	52.702	0.00	0.00
ATOM	5536	N	LEU	X	369	47.369	10.285	53.737	0.00	0.00
ATOM	5537	H	LEU	X	369	46.997	10.181	54.670	0.00	0.00

ATOM	5538	CA	LEU	X	369	46.780	9.475	52.723	0.00	0.00
ATOM	5539	HA	LEU	X	369	47.519	8.886	52.179	0.00	0.00
ATOM	5540	CB	LEU	X	369	45.844	8.487	53.353	0.00	0.00
ATOM	5541	HB2	LEU	X	369	46.284	8.136	54.287	0.00	0.00
ATOM	5542	HB3	LEU	X	369	44.868	8.897	53.608	0.00	0.00
ATOM	5543	CG	LEU	X	369	45.558	7.186	52.543	0.00	0.00
ATOM	5544	HG	LEU	X	369	45.009	7.380	51.621	0.00	0.00
ATOM	5545	CD1	LEU	X	369	46.792	6.293	52.098	0.00	0.00
ATOM	5546	HD11	LEU	X	369	47.533	6.274	52.897	0.00	0.00
ATOM	5547	HD12	LEU	X	369	46.576	5.311	51.678	0.00	0.00
ATOM	5548	HD13	LEU	X	369	47.349	6.792	51.305	0.00	0.00
ATOM	5549	CD2	LEU	X	369	44.633	6.287	53.373	0.00	0.00
ATOM	5550	HD21	LEU	X	369	44.246	5.498	52.728	0.00	0.00
ATOM	5551	HD22	LEU	X	369	45.225	5.793	54.143	0.00	0.00
ATOM	5552	HD23	LEU	X	369	43.890	6.879	53.909	0.00	0.00
ATOM	5553	C	LEU	X	369	46.254	10.298	51.562	0.00	0.00
ATOM	5554	O	LEU	X	369	46.175	9.750	50.466	0.00	0.00
ATOM	5555	N	ALA	X	370	45.881	11.559	51.810	0.00	0.00
ATOM	5556	H	ALA	X	370	45.992	12.030	52.697	0.00	0.00
ATOM	5557	CA	ALA	X	370	45.715	12.490	50.690	0.00	0.00
ATOM	5558	HA	ALA	X	370	45.218	12.048	49.826	0.00	0.00
ATOM	5559	CB	ALA	X	370	44.859	13.750	51.048	0.00	0.00
ATOM	5560	HB1	ALA	X	370	44.897	14.470	50.231	0.00	0.00
ATOM	5561	HB2	ALA	X	370	43.838	13.383	51.153	0.00	0.00
ATOM	5562	HB3	ALA	X	370	45.184	14.290	51.937	0.00	0.00
ATOM	5563	C	ALA	X	370	47.082	12.892	50.135	0.00	0.00
ATOM	5564	O	ALA	X	370	47.274	12.689	48.921	0.00	0.00
ATOM	5565	N	ALA	X	371	48.120	13.242	50.921	0.00	0.00
ATOM	5566	H	ALA	X	371	48.004	13.457	51.901	0.00	0.00
ATOM	5567	CA	ALA	X	371	49.358	13.658	50.310	0.00	0.00
ATOM	5568	HA	ALA	X	371	49.036	14.474	49.663	0.00	0.00
ATOM	5569	CB	ALA	X	371	50.436	14.169	51.280	0.00	0.00
ATOM	5570	HB1	ALA	X	371	50.685	13.406	52.018	0.00	0.00
ATOM	5571	HB2	ALA	X	371	51.302	14.558	50.745	0.00	0.00
ATOM	5572	HB3	ALA	X	371	50.064	15.037	51.823	0.00	0.00
ATOM	5573	C	ALA	X	371	50.031	12.596	49.417	0.00	0.00
ATOM	5574	O	ALA	X	371	50.383	12.907	48.295	0.00	0.00
ATOM	5575	N	GLU	X	372	50.027	11.327	49.709	0.00	0.00
ATOM	5576	H	GLU	X	372	49.665	11.046	50.609	0.00	0.00
ATOM	5577	CA	GLU	X	372	50.240	10.144	48.841	0.00	0.00
ATOM	5578	HA	GLU	X	372	51.262	9.964	48.509	0.00	0.00
ATOM	5579	CB	GLU	X	372	49.765	8.943	49.756	0.00	0.00
ATOM	5580	HB2	GLU	X	372	50.490	8.842	50.564	0.00	0.00
ATOM	5581	HB3	GLU	X	372	48.784	9.177	50.169	0.00	0.00
ATOM	5582	CG	GLU	X	372	49.749	7.569	49.031	0.00	0.00
ATOM	5583	HG2	GLU	X	372	49.018	6.933	49.530	0.00	0.00
ATOM	5584	HG3	GLU	X	372	49.262	7.603	48.056	0.00	0.00
ATOM	5585	CD	GLU	X	372	51.100	6.907	48.787	0.00	0.00
ATOM	5586	OE1	GLU	X	372	51.229	5.702	48.587	0.00	0.00
ATOM	5587	OE2	GLU	X	372	52.094	7.629	48.523	0.00	0.00
ATOM	5588	C	GLU	X	372	49.392	10.114	47.506	0.00	0.00
ATOM	5589	O	GLU	X	372	49.972	10.004	46.422	0.00	0.00
ATOM	5590	N	ALA	X	373	48.055	10.215	47.593	0.00	0.00
ATOM	5591	H	ALA	X	373	47.630	10.353	48.499	0.00	0.00
ATOM	5592	CA	ALA	X	373	47.240	10.358	46.441	0.00	0.00
ATOM	5593	HA	ALA	X	373	47.337	9.443	45.856	0.00	0.00
ATOM	5594	CB	ALA	X	373	45.762	10.426	46.822	0.00	0.00
ATOM	5595	HB1	ALA	X	373	45.566	11.253	47.504	0.00	0.00
ATOM	5596	HB2	ALA	X	373	45.156	10.376	45.917	0.00	0.00
ATOM	5597	HB3	ALA	X	373	45.535	9.521	47.385	0.00	0.00
ATOM	5598	C	ALA	X	373	47.677	11.604	45.593	0.00	0.00
ATOM	5599	O	ALA	X	373	47.678	11.470	44.396	0.00	0.00
ATOM	5600	N	VAL	X	374	48.103	12.670	46.242	0.00	0.00
ATOM	5601	H	VAL	X	374	48.059	12.703	47.250	0.00	0.00
ATOM	5602	CA	VAL	X	374	48.434	13.898	45.500	0.00	0.00
ATOM	5603	HA	VAL	X	374	47.715	14.051	44.696	0.00	0.00
ATOM	5604	CB	VAL	X	374	48.476	15.178	46.398	0.00	0.00
ATOM	5605	HB	VAL	X	374	49.142	15.034	47.249	0.00	0.00
ATOM	5606	CG1	VAL	X	374	49.047	16.465	45.697	0.00	0.00
ATOM	5607	HG11	VAL	X	374	48.448	16.604	44.796	0.00	0.00

ATOM	5608	HG12	VAL	X	374	48.982	17.342	46.340	0.00	0.00
ATOM	5609	HG13	VAL	X	374	50.091	16.391	45.393	0.00	0.00
ATOM	5610	CG2	VAL	X	374	47.176	15.587	47.131	0.00	0.00
ATOM	5611	HG21	VAL	X	374	46.349	15.905	46.496	0.00	0.00
ATOM	5612	HG22	VAL	X	374	46.718	14.698	47.566	0.00	0.00
ATOM	5613	HG23	VAL	X	374	47.228	16.421	47.831	0.00	0.00
ATOM	5614	C	VAL	X	374	49.746	13.638	44.853	0.00	0.00
ATOM	5615	O	VAL	X	374	49.856	13.843	43.661	0.00	0.00
ATOM	5616	N	VAL	X	375	50.844	13.232	45.575	0.00	0.00
ATOM	5617	H	VAL	X	375	50.808	13.158	46.582	0.00	0.00
ATOM	5618	CA	VAL	X	375	52.079	12.858	44.946	0.00	0.00
ATOM	5619	HA	VAL	X	375	52.510	13.754	44.499	0.00	0.00
ATOM	5620	CB	VAL	X	375	53.102	12.261	46.041	0.00	0.00
ATOM	5621	HB	VAL	X	375	52.570	11.560	46.683	0.00	0.00
ATOM	5622	CG1	VAL	X	375	54.390	11.636	45.581	0.00	0.00
ATOM	5623	HG11	VAL	X	375	54.132	10.877	44.843	0.00	0.00
ATOM	5624	HG12	VAL	X	375	55.037	12.413	45.173	0.00	0.00
ATOM	5625	HG13	VAL	X	375	54.914	11.211	46.437	0.00	0.00
ATOM	5626	CG2	VAL	X	375	53.441	13.363	47.046	0.00	0.00
ATOM	5627	HG21	VAL	X	375	54.139	13.042	47.820	0.00	0.00
ATOM	5628	HG22	VAL	X	375	53.976	14.070	46.412	0.00	0.00
ATOM	5629	HG23	VAL	X	375	52.561	13.942	47.327	0.00	0.00
ATOM	5630	C	VAL	X	375	51.849	11.866	43.847	0.00	0.00
ATOM	5631	O	VAL	X	375	52.558	11.818	42.912	0.00	0.00
ATOM	5632	N	LEU	X	376	50.947	10.959	43.950	0.00	0.00
ATOM	5633	H	LEU	X	376	50.313	11.000	44.735	0.00	0.00
ATOM	5634	CA	LEU	X	376	50.706	9.850	42.880	0.00	0.00
ATOM	5635	HA	LEU	X	376	51.676	9.516	42.514	0.00	0.00
ATOM	5636	CB	LEU	X	376	49.874	8.649	43.367	0.00	0.00
ATOM	5637	HB2	LEU	X	376	50.288	8.410	44.346	0.00	0.00
ATOM	5638	HB3	LEU	X	376	48.897	9.057	43.626	0.00	0.00
ATOM	5639	CG	LEU	X	376	49.685	7.430	42.436	0.00	0.00
ATOM	5640	HG	LEU	X	376	49.139	7.690	41.529	0.00	0.00
ATOM	5641	CD1	LEU	X	376	51.052	6.760	42.230	0.00	0.00
ATOM	5642	HD11	LEU	X	376	50.931	6.012	41.446	0.00	0.00
ATOM	5643	HD12	LEU	X	376	51.761	7.497	41.853	0.00	0.00
ATOM	5644	HD13	LEU	X	376	51.465	6.328	43.142	0.00	0.00
ATOM	5645	CD2	LEU	X	376	48.806	6.508	43.174	0.00	0.00
ATOM	5646	HD21	LEU	X	376	47.829	6.985	43.247	0.00	0.00
ATOM	5647	HD22	LEU	X	376	48.546	5.556	42.710	0.00	0.00
ATOM	5648	HD23	LEU	X	376	49.243	6.215	44.128	0.00	0.00
ATOM	5649	C	LEU	X	376	49.997	10.449	41.597	0.00	0.00
ATOM	5650	O	LEU	X	376	50.465	10.238	40.531	0.00	0.00
ATOM	5651	N	HIE	X	377	49.040	11.389	41.740	0.00	0.00
ATOM	5652	H	HIE	X	377	48.595	11.659	42.606	0.00	0.00
ATOM	5653	CA	HIE	X	377	48.349	12.073	40.646	0.00	0.00
ATOM	5654	HA	HIE	X	377	47.980	11.358	39.911	0.00	0.00
ATOM	5655	CB	HIE	X	377	47.220	12.856	41.326	0.00	0.00
ATOM	5656	HB2	HIE	X	377	46.533	12.114	41.732	0.00	0.00
ATOM	5657	HB3	HIE	X	377	47.644	13.518	42.082	0.00	0.00
ATOM	5658	CG	HIE	X	377	46.408	13.717	40.327	0.00	0.00
ATOM	5659	ND1	HIE	X	377	45.415	13.149	39.460	0.00	0.00
ATOM	5660	CE1	HIE	X	377	45.056	14.156	38.628	0.00	0.00
ATOM	5661	HE1	HIE	X	377	44.112	14.278	38.117	0.00	0.00
ATOM	5662	NE2	HIE	X	377	45.800	15.264	38.967	0.00	0.00
ATOM	5663	HE2	HIE	X	377	45.825	16.139	38.463	0.00	0.00
ATOM	5664	CD2	HIE	X	377	46.697	14.974	39.967	0.00	0.00
ATOM	5665	HD2	HIE	X	377	47.441	15.589	40.450	0.00	0.00
ATOM	5666	C	HIE	X	377	49.324	13.022	39.859	0.00	0.00
ATOM	5667	O	HIE	X	377	49.215	13.200	38.603	0.00	0.00
ATOM	5668	N	TYR	X	378	50.272	13.614	40.516	0.00	0.00
ATOM	5669	H	TYR	X	378	50.294	13.570	41.525	0.00	0.00
ATOM	5670	CA	TYR	X	378	51.262	14.517	39.848	0.00	0.00
ATOM	5671	HA	TYR	X	378	50.791	14.959	38.970	0.00	0.00
ATOM	5672	CB	TYR	X	378	51.471	15.686	40.866	0.00	0.00
ATOM	5673	HB2	TYR	X	378	51.470	15.247	41.864	0.00	0.00
ATOM	5674	HB3	TYR	X	378	52.335	16.329	40.700	0.00	0.00
ATOM	5675	CG	TYR	X	378	50.377	16.711	40.853	0.00	0.00
ATOM	5676	CD1	TYR	X	378	50.325	17.753	39.924	0.00	0.00
ATOM	5677	HD1	TYR	X	378	51.149	17.768	39.226	0.00	0.00

ATOM	5678	CE1	TYR	X	378	49.345	18.818	40.104	0.00	0.00
ATOM	5679	HE1	TYR	X	378	49.331	19.754	39.565	0.00	0.00
ATOM	5680	CZ	TYR	X	378	48.282	18.568	40.969	0.00	0.00
ATOM	5681	OH	TYR	X	378	47.242	19.493	41.072	0.00	0.00
ATOM	5682	HH	TYR	X	378	47.408	20.246	40.500	0.00	0.00
ATOM	5683	CE2	TYR	X	378	48.156	17.430	41.753	0.00	0.00
ATOM	5684	HE2	TYR	X	378	47.432	17.309	42.545	0.00	0.00
ATOM	5685	CD2	TYR	X	378	49.253	16.568	41.731	0.00	0.00
ATOM	5686	HD2	TYR	X	378	49.183	15.693	42.360	0.00	0.00
ATOM	5687	C	TYR	X	378	52.583	13.842	39.337	0.00	0.00
ATOM	5688	O	TYR	X	378	53.388	14.601	38.766	0.00	0.00
ATOM	5689	N	THR	X	379	52.792	12.529	39.578	0.00	0.00
ATOM	5690	H	THR	X	379	52.039	12.014	40.014	0.00	0.00
ATOM	5691	CA	THR	X	379	54.067	11.815	39.301	0.00	0.00
ATOM	5692	HA	THR	X	379	54.969	12.220	39.759	0.00	0.00
ATOM	5693	CB	THR	X	379	53.825	10.429	39.907	0.00	0.00
ATOM	5694	HB	THR	X	379	52.783	10.144	39.762	0.00	0.00
ATOM	5695	CG2	THR	X	379	54.694	9.321	39.451	0.00	0.00
ATOM	5696	HG21	THR	X	379	55.711	9.619	39.196	0.00	0.00
ATOM	5697	HG22	THR	X	379	54.710	8.518	40.188	0.00	0.00
ATOM	5698	HG23	THR	X	379	54.244	8.907	38.549	0.00	0.00
ATOM	5699	OG1	THR	X	379	54.202	10.518	41.269	0.00	0.00
ATOM	5700	HG1	THR	X	379	53.766	11.285	41.647	0.00	0.00
ATOM	5701	C	THR	X	379	54.341	11.614	37.764	0.00	0.00
ATOM	5702	O	THR	X	379	53.415	11.335	37.024	0.00	0.00
ATOM	5703	N	ASP	X	380	55.492	11.983	37.374	0.00	0.00
ATOM	5704	H	ASP	X	380	56.144	12.261	38.094	0.00	0.00
ATOM	5705	CA	ASP	X	380	56.108	11.792	36.031	0.00	0.00
ATOM	5706	HA	ASP	X	380	55.337	11.927	35.273	0.00	0.00
ATOM	5707	CB	ASP	X	380	57.241	12.800	35.815	0.00	0.00
ATOM	5708	HB2	ASP	X	380	56.847	13.810	35.923	0.00	0.00
ATOM	5709	HB3	ASP	X	380	58.111	12.560	36.427	0.00	0.00
ATOM	5710	CG	ASP	X	380	57.636	12.683	34.287	0.00	0.00
ATOM	5711	OD1	ASP	X	380	56.946	13.247	33.423	0.00	0.00
ATOM	5712	OD2	ASP	X	380	58.683	12.054	34.046	0.00	0.00
ATOM	5713	C	ASP	X	380	56.527	10.268	35.843	0.00	0.00
ATOM	5714	O	ASP	X	380	57.376	9.711	36.488	0.00	0.00
ATOM	5715	N	TRP	X	381	55.907	9.636	34.809	0.00	0.00
ATOM	5716	H	TRP	X	381	55.434	10.220	34.134	0.00	0.00
ATOM	5717	CA	TRP	X	381	56.085	8.237	34.536	0.00	0.00
ATOM	5718	HA	TRP	X	381	56.163	7.708	35.485	0.00	0.00
ATOM	5719	CB	TRP	X	381	54.825	7.712	33.691	0.00	0.00
ATOM	5720	HB2	TRP	X	381	54.687	8.263	32.761	0.00	0.00
ATOM	5721	HB3	TRP	X	381	54.958	6.682	33.359	0.00	0.00
ATOM	5722	CG	TRP	X	381	53.572	7.781	34.371	0.00	0.00
ATOM	5723	CD1	TRP	X	381	53.371	7.934	35.653	0.00	0.00
ATOM	5724	HD1	TRP	X	381	54.167	8.163	36.347	0.00	0.00
ATOM	5725	NE1	TRP	X	381	52.023	7.814	35.973	0.00	0.00
ATOM	5726	HE1	TRP	X	381	51.605	8.134	36.835	0.00	0.00
ATOM	5727	CE2	TRP	X	381	51.315	7.497	34.855	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	49.971	7.201	34.644	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	49.346	7.097	35.519	0.00	0.00
ATOM	5730	CH2	TRP	X	381	49.511	6.921	33.312	0.00	0.00
ATOM	5731	HH2	TRP	X	381	48.484	6.613	33.175	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	50.395	7.174	32.229	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	50.075	7.090	31.201	0.00	0.00
ATOM	5734	CE3	TRP	X	381	51.767	7.450	32.473	0.00	0.00
ATOM	5735	HE3	TRP	X	381	52.410	7.496	31.607	0.00	0.00
ATOM	5736	CD2	TRP	X	381	52.248	7.553	33.773	0.00	0.00
ATOM	5737	C	TRP	X	381	57.395	7.984	33.788	0.00	0.00
ATOM	5738	O	TRP	X	381	57.769	6.845	33.538	0.00	0.00
ATOM	5739	N	LEU	X	382	58.051	9.012	33.330	0.00	0.00
ATOM	5740	H	LEU	X	382	57.667	9.938	33.454	0.00	0.00
ATOM	5741	CA	LEU	X	382	59.212	9.052	32.442	0.00	0.00
ATOM	5742	HA	LEU	X	382	59.278	8.067	31.981	0.00	0.00
ATOM	5743	CB	LEU	X	382	58.995	10.086	31.297	0.00	0.00
ATOM	5744	HB2	LEU	X	382	58.463	10.970	31.647	0.00	0.00
ATOM	5745	HB3	LEU	X	382	60.003	10.344	30.972	0.00	0.00
ATOM	5746	CG	LEU	X	382	58.434	9.473	30.016	0.00	0.00
ATOM	5747	HG	LEU	X	382	59.112	8.817	29.470	0.00	0.00

ATOM	5748	CD1	LEU	X	382	57.083	8.771	30.266	0.00	0.00
ATOM	5749	HD11	LEU	X	382	56.294	9.518	30.351	0.00	0.00
ATOM	5750	HD12	LEU	X	382	56.866	8.200	29.363	0.00	0.00
ATOM	5751	HD13	LEU	X	382	57.137	8.197	31.191	0.00	0.00
ATOM	5752	CD2	LEU	X	382	58.201	10.632	29.041	0.00	0.00
ATOM	5753	HD21	LEU	X	382	57.858	10.297	28.061	0.00	0.00
ATOM	5754	HD22	LEU	X	382	57.536	11.387	29.460	0.00	0.00
ATOM	5755	HD23	LEU	X	382	59.189	11.066	28.888	0.00	0.00
ATOM	5756	C	LEU	X	382	60.514	9.165	33.296	0.00	0.00
ATOM	5757	O	LEU	X	382	61.488	8.546	32.912	0.00	0.00
ATOM	5758	N	HIE	X	383	60.576	10.035	34.307	0.00	0.00
ATOM	5759	H	HIE	X	383	59.882	10.768	34.330	0.00	0.00
ATOM	5760	CA	HIE	X	383	61.496	10.007	35.487	0.00	0.00
ATOM	5761	HA	HIE	X	383	61.661	8.933	35.580	0.00	0.00
ATOM	5762	CB	HIE	X	383	62.800	10.701	35.162	0.00	0.00
ATOM	5763	HB2	HIE	X	383	63.127	10.149	34.281	0.00	0.00
ATOM	5764	HB3	HIE	X	383	62.595	11.752	34.957	0.00	0.00
ATOM	5765	CG	HIE	X	383	63.906	10.573	36.191	0.00	0.00
ATOM	5766	ND1	HIE	X	383	63.704	10.085	37.502	0.00	0.00
ATOM	5767	CE1	HIE	X	383	64.900	10.412	38.032	0.00	0.00
ATOM	5768	HE1	HIE	X	383	65.079	10.233	39.082	0.00	0.00
ATOM	5769	NE2	HIE	X	383	65.716	10.992	37.141	0.00	0.00
ATOM	5770	HE2	HIE	X	383	66.518	11.544	37.407	0.00	0.00
ATOM	5771	CD2	HIE	X	383	65.051	11.165	36.018	0.00	0.00
ATOM	5772	HD2	HIE	X	383	65.304	11.649	35.087	0.00	0.00
ATOM	5773	C	HIE	X	383	60.796	10.416	36.815	0.00	0.00
ATOM	5774	O	HIE	X	383	60.675	11.654	37.026	0.00	0.00
ATOM	5775	N	PRO	X	384	60.247	9.544	37.685	0.00	0.00
ATOM	5776	CD	PRO	X	384	60.027	8.190	37.434	0.00	0.00
ATOM	5777	HD2	PRO	X	384	60.920	7.603	37.649	0.00	0.00
ATOM	5778	HD3	PRO	X	384	59.692	7.949	36.425	0.00	0.00
ATOM	5779	CG	PRO	X	384	59.007	7.668	38.451	0.00	0.00
ATOM	5780	HG2	PRO	X	384	59.466	6.769	38.863	0.00	0.00
ATOM	5781	HG3	PRO	X	384	58.004	7.566	38.037	0.00	0.00
ATOM	5782	CB	PRO	X	384	58.878	8.821	39.494	0.00	0.00
ATOM	5783	HB2	PRO	X	384	59.400	8.533	40.406	0.00	0.00
ATOM	5784	HB3	PRO	X	384	57.865	9.045	39.828	0.00	0.00
ATOM	5785	CA	PRO	X	384	59.504	10.058	38.894	0.00	0.00
ATOM	5786	HA	PRO	X	384	58.857	10.818	38.454	0.00	0.00
ATOM	5787	C	PRO	X	384	60.445	10.746	39.991	0.00	0.00
ATOM	5788	O	PRO	X	384	59.870	11.358	40.841	0.00	0.00
ATOM	5789	N	GLU	X	385	61.748	10.687	39.923	0.00	0.00
ATOM	5790	H	GLU	X	385	62.202	10.109	39.230	0.00	0.00
ATOM	5791	CA	GLU	X	385	62.697	11.307	40.818	0.00	0.00
ATOM	5792	HA	GLU	X	385	62.139	11.711	41.662	0.00	0.00
ATOM	5793	CB	GLU	X	385	63.549	10.199	41.573	0.00	0.00
ATOM	5794	HB2	GLU	X	385	64.114	9.553	40.901	0.00	0.00
ATOM	5795	HB3	GLU	X	385	64.282	10.661	42.235	0.00	0.00
ATOM	5796	CG	GLU	X	385	62.674	9.254	42.406	0.00	0.00
ATOM	5797	HG2	GLU	X	385	62.096	9.875	43.091	0.00	0.00
ATOM	5798	HG3	GLU	X	385	61.944	8.692	41.824	0.00	0.00
ATOM	5799	CD	GLU	X	385	63.624	8.285	43.214	0.00	0.00
ATOM	5800	OE1	GLU	X	385	63.612	7.079	42.907	0.00	0.00
ATOM	5801	OE2	GLU	X	385	64.296	8.732	44.188	0.00	0.00
ATOM	5802	C	GLU	X	385	63.538	12.377	40.112	0.00	0.00
ATOM	5803	O	GLU	X	385	64.479	12.860	40.716	0.00	0.00
ATOM	5804	N	ASP	X	386	63.078	12.859	38.958	0.00	0.00
ATOM	5805	H	ASP	X	386	62.325	12.462	38.416	0.00	0.00
ATOM	5806	CA	ASP	X	386	63.730	13.997	38.364	0.00	0.00
ATOM	5807	HA	ASP	X	386	64.767	13.677	38.265	0.00	0.00
ATOM	5808	CB	ASP	X	386	63.120	14.170	36.939	0.00	0.00
ATOM	5809	HB2	ASP	X	386	63.274	13.263	36.353	0.00	0.00
ATOM	5810	HB3	ASP	X	386	62.086	14.513	36.961	0.00	0.00
ATOM	5811	CG	ASP	X	386	63.997	15.200	36.171	0.00	0.00
ATOM	5812	OD1	ASP	X	386	64.864	14.743	35.369	0.00	0.00
ATOM	5813	OD2	ASP	X	386	63.848	16.453	36.482	0.00	0.00
ATOM	5814	C	ASP	X	386	63.462	15.288	39.179	0.00	0.00
ATOM	5815	O	ASP	X	386	62.279	15.675	39.304	0.00	0.00
ATOM	5816	N	PRO	X	387	64.510	15.896	39.801	0.00	0.00
ATOM	5817	CD	PRO	X	387	65.876	15.505	39.559	0.00	0.00

ATOM	5818	HD2	PRO	X	387	66.141	15.483	38.502	0.00	0.00
ATOM	5819	HD3	PRO	X	387	66.109	14.533	39.993	0.00	0.00
ATOM	5820	CG	PRO	X	387	66.684	16.656	40.277	0.00	0.00
ATOM	5821	HG2	PRO	X	387	66.789	17.469	39.558	0.00	0.00
ATOM	5822	HG3	PRO	X	387	67.678	16.328	40.577	0.00	0.00
ATOM	5823	CB	PRO	X	387	65.755	17.067	41.416	0.00	0.00
ATOM	5824	HB2	PRO	X	387	65.980	18.123	41.561	0.00	0.00
ATOM	5825	HB3	PRO	X	387	65.934	16.330	42.199	0.00	0.00
ATOM	5826	CA	PRO	X	387	64.366	16.873	40.814	0.00	0.00
ATOM	5827	HA	PRO	X	387	63.823	16.493	41.680	0.00	0.00
ATOM	5828	C	PRO	X	387	63.739	18.187	40.396	0.00	0.00
ATOM	5829	O	PRO	X	387	63.190	18.932	41.175	0.00	0.00
ATOM	5830	N	ALA	X	388	63.885	18.494	39.134	0.00	0.00
ATOM	5831	H	ALA	X	388	64.439	17.852	38.585	0.00	0.00
ATOM	5832	CA	ALA	X	388	63.270	19.680	38.534	0.00	0.00
ATOM	5833	HA	ALA	X	388	63.342	20.521	39.223	0.00	0.00
ATOM	5834	CB	ALA	X	388	64.080	19.920	37.291	0.00	0.00
ATOM	5835	HB1	ALA	X	388	64.139	18.989	36.727	0.00	0.00
ATOM	5836	HB2	ALA	X	388	63.559	20.591	36.609	0.00	0.00
ATOM	5837	HB3	ALA	X	388	65.085	20.274	37.523	0.00	0.00
ATOM	5838	C	ALA	X	388	61.796	19.364	38.315	0.00	0.00
ATOM	5839	O	ALA	X	388	60.915	20.189	38.560	0.00	0.00
ATOM	5840	N	ARG	X	389	61.452	18.219	37.774	0.00	0.00
ATOM	5841	H	ARG	X	389	62.205	17.598	37.513	0.00	0.00
ATOM	5842	CA	ARG	X	389	60.030	17.801	37.466	0.00	0.00
ATOM	5843	HA	ARG	X	389	59.577	18.485	36.748	0.00	0.00
ATOM	5844	CB	ARG	X	389	59.976	16.461	36.796	0.00	0.00
ATOM	5845	HB2	ARG	X	389	60.621	15.819	37.396	0.00	0.00
ATOM	5846	HB3	ARG	X	389	58.967	16.079	36.640	0.00	0.00
ATOM	5847	CG	ARG	X	389	60.622	16.581	35.383	0.00	0.00
ATOM	5848	HG2	ARG	X	389	60.059	17.323	34.816	0.00	0.00
ATOM	5849	HG3	ARG	X	389	61.636	16.966	35.496	0.00	0.00
ATOM	5850	CD	ARG	X	389	60.522	15.201	34.659	0.00	0.00
ATOM	5851	HD2	ARG	X	389	60.731	14.385	35.351	0.00	0.00
ATOM	5852	HD3	ARG	X	389	59.483	15.242	34.332	0.00	0.00
ATOM	5853	NE	ARG	X	389	61.547	15.219	33.587	0.00	0.00
ATOM	5854	HE	ARG	X	389	62.098	16.061	33.499	0.00	0.00
ATOM	5855	CZ	ARG	X	389	61.667	14.281	32.693	0.00	0.00
ATOM	5856	NH1	ARG	X	389	61.025	13.136	32.741	0.00	0.00
ATOM	5857	HH11	ARG	X	389	60.328	12.945	33.447	0.00	0.00
ATOM	5858	HH12	ARG	X	389	61.207	12.419	32.053	0.00	0.00
ATOM	5859	NH2	ARG	X	389	62.559	14.382	31.771	0.00	0.00
ATOM	5860	HH21	ARG	X	389	63.174	15.183	31.736	0.00	0.00
ATOM	5861	HH22	ARG	X	389	62.756	13.569	31.204	0.00	0.00
ATOM	5862	C	ARG	X	389	59.194	17.783	38.763	0.00	0.00
ATOM	5863	O	ARG	X	389	58.137	18.342	38.849	0.00	0.00
ATOM	5864	N	LEU	X	390	59.746	17.152	39.852	0.00	0.00
ATOM	5865	H	LEU	X	390	60.643	16.720	39.680	0.00	0.00
ATOM	5866	CA	LEU	X	390	59.336	17.056	41.301	0.00	0.00
ATOM	5867	HA	LEU	X	390	58.454	16.432	41.447	0.00	0.00
ATOM	5868	CB	LEU	X	390	60.416	16.382	42.129	0.00	0.00
ATOM	5869	HB2	LEU	X	390	61.365	16.825	41.828	0.00	0.00
ATOM	5870	HB3	LEU	X	390	60.160	16.597	43.167	0.00	0.00
ATOM	5871	CG	LEU	X	390	60.563	14.889	41.923	0.00	0.00
ATOM	5872	HG	LEU	X	390	60.734	14.567	40.895	0.00	0.00
ATOM	5873	CD1	LEU	X	390	61.810	14.555	42.762	0.00	0.00
ATOM	5874	HD11	LEU	X	390	62.712	14.974	42.316	0.00	0.00
ATOM	5875	HD12	LEU	X	390	61.608	14.809	43.803	0.00	0.00
ATOM	5876	HD13	LEU	X	390	61.970	13.484	42.884	0.00	0.00
ATOM	5877	CD2	LEU	X	390	59.403	14.145	42.488	0.00	0.00
ATOM	5878	HD21	LEU	X	390	59.675	13.102	42.652	0.00	0.00
ATOM	5879	HD22	LEU	X	390	58.981	14.561	43.402	0.00	0.00
ATOM	5880	HD23	LEU	X	390	58.570	14.205	41.787	0.00	0.00
ATOM	5881	C	LEU	X	390	59.006	18.547	41.773	0.00	0.00
ATOM	5882	O	LEU	X	390	57.921	18.766	42.296	0.00	0.00
ATOM	5883	N	ARG	X	391	59.911	19.485	41.690	0.00	0.00
ATOM	5884	H	ARG	X	391	60.862	19.254	41.440	0.00	0.00
ATOM	5885	CA	ARG	X	391	59.756	20.916	41.921	0.00	0.00
ATOM	5886	HA	ARG	X	391	59.473	21.147	42.948	0.00	0.00
ATOM	5887	CB	ARG	X	391	61.109	21.681	41.567	0.00	0.00

ATOM	5888	HB2	ARG	X	391	61.834	21.352	42.311	0.00	0.00
ATOM	5889	HB3	ARG	X	391	61.406	21.346	40.573	0.00	0.00
ATOM	5890	CG	ARG	X	391	60.985	23.171	41.634	0.00	0.00
ATOM	5891	HG2	ARG	X	391	60.038	23.561	41.259	0.00	0.00
ATOM	5892	HG3	ARG	X	391	60.910	23.491	42.673	0.00	0.00
ATOM	5893	CD	ARG	X	391	62.148	23.995	40.961	0.00	0.00
ATOM	5894	HD2	ARG	X	391	61.967	25.055	41.142	0.00	0.00
ATOM	5895	HD3	ARG	X	391	63.102	23.715	41.409	0.00	0.00
ATOM	5896	NE	ARG	X	391	62.339	23.840	39.527	0.00	0.00
ATOM	5897	HE	ARG	X	391	63.292	23.721	39.216	0.00	0.00
ATOM	5898	CZ	ARG	X	391	61.469	23.727	38.449	0.00	0.00
ATOM	5899	NH1	ARG	X	391	60.196	24.027	38.536	0.00	0.00
ATOM	5900	HH11	ARG	X	391	59.791	24.364	39.397	0.00	0.00
ATOM	5901	HH12	ARG	X	391	59.694	24.018	37.659	0.00	0.00
ATOM	5902	NH2	ARG	X	391	61.833	23.423	37.326	0.00	0.00
ATOM	5903	HH21	ARG	X	391	62.767	23.068	37.178	0.00	0.00
ATOM	5904	HH22	ARG	X	391	61.194	23.504	36.548	0.00	0.00
ATOM	5905	C	ARG	X	391	58.602	21.504	41.099	0.00	0.00
ATOM	5906	O	ARG	X	391	57.711	21.975	41.755	0.00	0.00
ATOM	5907	N	GLU	X	392	58.568	21.288	39.771	0.00	0.00
ATOM	5908	H	GLU	X	392	59.270	20.738	39.297	0.00	0.00
ATOM	5909	CA	GLU	X	392	57.482	21.952	39.004	0.00	0.00
ATOM	5910	HA	GLU	X	392	57.410	23.020	39.207	0.00	0.00
ATOM	5911	CB	GLU	X	392	57.689	21.643	37.547	0.00	0.00
ATOM	5912	HB2	GLU	X	392	58.735	21.551	37.255	0.00	0.00
ATOM	5913	HB3	GLU	X	392	57.346	20.611	37.476	0.00	0.00
ATOM	5914	CG	GLU	X	392	56.990	22.491	36.442	0.00	0.00
ATOM	5915	HG2	GLU	X	392	57.164	22.107	35.437	0.00	0.00
ATOM	5916	HG3	GLU	X	392	55.945	22.448	36.749	0.00	0.00
ATOM	5917	CD	GLU	X	392	57.486	23.932	36.598	0.00	0.00
ATOM	5918	OE1	GLU	X	392	56.682	24.803	36.950	0.00	0.00
ATOM	5919	OE2	GLU	X	392	58.637	24.165	36.261	0.00	0.00
ATOM	5920	C	GLU	X	392	56.065	21.366	39.397	0.00	0.00
ATOM	5921	O	GLU	X	392	54.999	22.022	39.300	0.00	0.00
ATOM	5922	N	ALA	X	393	56.094	20.107	39.726	0.00	0.00
ATOM	5923	H	ALA	X	393	57.002	19.665	39.708	0.00	0.00
ATOM	5924	CA	ALA	X	393	54.911	19.310	40.162	0.00	0.00
ATOM	5925	HA	ALA	X	393	54.189	19.402	39.350	0.00	0.00
ATOM	5926	CB	ALA	X	393	55.279	17.852	40.353	0.00	0.00
ATOM	5927	HB1	ALA	X	393	55.852	17.790	41.278	0.00	0.00
ATOM	5928	HB2	ALA	X	393	54.598	17.041	40.607	0.00	0.00
ATOM	5929	HB3	ALA	X	393	55.848	17.517	39.485	0.00	0.00
ATOM	5930	C	ALA	X	393	54.255	19.849	41.467	0.00	0.00
ATOM	5931	O	ALA	X	393	53.026	19.926	41.461	0.00	0.00
ATOM	5932	N	LEU	X	394	55.033	20.348	42.353	0.00	0.00
ATOM	5933	H	LEU	X	394	56.033	20.205	42.362	0.00	0.00
ATOM	5934	CA	LEU	X	394	54.531	20.958	43.548	0.00	0.00
ATOM	5935	HA	LEU	X	394	53.722	20.355	43.959	0.00	0.00
ATOM	5936	CB	LEU	X	394	55.683	20.854	44.644	0.00	0.00
ATOM	5937	HB2	LEU	X	394	55.938	19.815	44.856	0.00	0.00
ATOM	5938	HB3	LEU	X	394	56.558	21.362	44.240	0.00	0.00
ATOM	5939	CG	LEU	X	394	55.249	21.543	45.984	0.00	0.00
ATOM	5940	HG	LEU	X	394	54.973	22.572	45.754	0.00	0.00
ATOM	5941	CD1	LEU	X	394	53.984	20.917	46.540	0.00	0.00
ATOM	5942	HD11	LEU	X	394	53.129	21.106	45.892	0.00	0.00
ATOM	5943	HD12	LEU	X	394	54.003	19.865	46.825	0.00	0.00
ATOM	5944	HD13	LEU	X	394	53.659	21.436	47.442	0.00	0.00
ATOM	5945	CD2	LEU	X	394	56.437	21.572	46.937	0.00	0.00
ATOM	5946	HD21	LEU	X	394	56.799	20.545	46.993	0.00	0.00
ATOM	5947	HD22	LEU	X	394	57.204	22.283	46.633	0.00	0.00
ATOM	5948	HD23	LEU	X	394	56.009	21.782	47.917	0.00	0.00
ATOM	5949	C	LEU	X	394	54.023	22.341	43.156	0.00	0.00
ATOM	5950	O	LEU	X	394	52.937	22.678	43.640	0.00	0.00
ATOM	5951	N	SER	X	395	54.694	23.148	42.344	0.00	0.00
ATOM	5952	H	SER	X	395	55.678	22.952	42.233	0.00	0.00
ATOM	5953	CA	SER	X	395	53.993	24.330	41.865	0.00	0.00
ATOM	5954	HA	SER	X	395	53.622	24.933	42.694	0.00	0.00
ATOM	5955	CB	SER	X	395	54.896	25.135	40.934	0.00	0.00
ATOM	5956	HB2	SER	X	395	55.207	24.578	40.050	0.00	0.00
ATOM	5957	HB3	SER	X	395	54.374	26.047	40.644	0.00	0.00

ATOM	5958	OG	SER	X	395	56.065	25.426	41.548	0.00	0.00
ATOM	5959	HG	SER	X	395	56.698	25.340	40.832	0.00	0.00
ATOM	5960	C	SER	X	395	52.726	24.066	41.188	0.00	0.00
ATOM	5961	O	SER	X	395	51.780	24.792	41.371	0.00	0.00
ATOM	5962	N	ASP	X	396	52.614	22.977	40.358	0.00	0.00
ATOM	5963	H	ASP	X	396	53.478	22.482	40.191	0.00	0.00
ATOM	5964	CA	ASP	X	396	51.313	22.508	39.736	0.00	0.00
ATOM	5965	HA	ASP	X	396	50.884	23.421	39.323	0.00	0.00
ATOM	5966	CB	ASP	X	396	51.706	21.492	38.549	0.00	0.00
ATOM	5967	HB2	ASP	X	396	52.794	21.508	38.481	0.00	0.00
ATOM	5968	HB3	ASP	X	396	51.498	20.484	38.908	0.00	0.00
ATOM	5969	CG	ASP	X	396	51.152	21.685	37.207	0.00	0.00
ATOM	5970	OD1	ASP	X	396	50.766	20.681	36.614	0.00	0.00
ATOM	5971	OD2	ASP	X	396	51.469	22.797	36.590	0.00	0.00
ATOM	5972	C	ASP	X	396	50.265	21.976	40.733	0.00	0.00
ATOM	5973	O	ASP	X	396	49.110	22.245	40.421	0.00	0.00
ATOM	5974	N	VAL	X	397	50.629	21.331	41.837	0.00	0.00
ATOM	5975	H	VAL	X	397	51.583	21.015	41.944	0.00	0.00
ATOM	5976	CA	VAL	X	397	49.827	21.080	43.116	0.00	0.00
ATOM	5977	HA	VAL	X	397	48.981	20.462	42.815	0.00	0.00
ATOM	5978	CB	VAL	X	397	50.719	20.167	43.989	0.00	0.00
ATOM	5979	HB	VAL	X	397	51.708	20.623	43.935	0.00	0.00
ATOM	5980	CG1	VAL	X	397	50.358	20.131	45.477	0.00	0.00
ATOM	5981	HG11	VAL	X	397	49.448	19.569	45.692	0.00	0.00
ATOM	5982	HG12	VAL	X	397	51.184	19.611	45.962	0.00	0.00
ATOM	5983	HG13	VAL	X	397	50.203	21.113	45.924	0.00	0.00
ATOM	5984	CG2	VAL	X	397	50.762	18.705	43.613	0.00	0.00
ATOM	5985	HG21	VAL	X	397	51.401	18.125	44.279	0.00	0.00
ATOM	5986	HG22	VAL	X	397	49.713	18.444	43.751	0.00	0.00
ATOM	5987	HG23	VAL	X	397	51.149	18.498	42.616	0.00	0.00
ATOM	5988	C	VAL	X	397	49.330	22.321	43.803	0.00	0.00
ATOM	5989	O	VAL	X	397	48.176	22.378	44.171	0.00	0.00
ATOM	5990	N	VAL	X	398	50.186	23.329	44.051	0.00	0.00
ATOM	5991	H	VAL	X	398	51.155	23.259	43.774	0.00	0.00
ATOM	5992	CA	VAL	X	398	49.766	24.559	44.842	0.00	0.00
ATOM	5993	HA	VAL	X	398	49.235	24.120	45.687	0.00	0.00
ATOM	5994	CB	VAL	X	398	50.959	25.386	45.422	0.00	0.00
ATOM	5995	HB	VAL	X	398	51.597	25.428	44.539	0.00	0.00
ATOM	5996	CG1	VAL	X	398	50.551	26.856	45.794	0.00	0.00
ATOM	5997	HG11	VAL	X	398	51.450	27.430	46.020	0.00	0.00
ATOM	5998	HG12	VAL	X	398	49.958	27.310	45.000	0.00	0.00
ATOM	5999	HG13	VAL	X	398	49.928	26.901	46.688	0.00	0.00
ATOM	6000	CG2	VAL	X	398	51.679	24.674	46.601	0.00	0.00
ATOM	6001	HG21	VAL	X	398	52.527	25.316	46.839	0.00	0.00
ATOM	6002	HG22	VAL	X	398	50.930	24.713	47.392	0.00	0.00
ATOM	6003	HG23	VAL	X	398	52.032	23.704	46.251	0.00	0.00
ATOM	6004	C	VAL	X	398	48.834	25.376	43.967	0.00	0.00
ATOM	6005	O	VAL	X	398	47.688	25.685	44.339	0.00	0.00
ATOM	6006	N	GLY	X	399	49.303	25.580	42.733	0.00	0.00
ATOM	6007	H	GLY	X	399	50.104	25.015	42.491	0.00	0.00
ATOM	6008	CA	GLY	X	399	48.723	26.435	41.676	0.00	0.00
ATOM	6009	HA2	GLY	X	399	48.655	27.519	41.875	0.00	0.00
ATOM	6010	HA3	GLY	X	399	49.272	26.343	40.811	0.00	0.00
ATOM	6011	C	GLY	X	399	47.302	25.966	41.391	0.00	0.00
ATOM	6012	O	GLY	X	399	46.400	26.852	41.183	0.00	0.00
ATOM	6013	N	ASP	X	400	46.944	24.693	41.331	0.00	0.00
ATOM	6014	H	ASP	X	400	47.670	24.010	41.494	0.00	0.00
ATOM	6015	CA	ASP	X	400	45.609	24.097	41.026	0.00	0.00
ATOM	6016	HA	ASP	X	400	45.115	24.519	40.151	0.00	0.00
ATOM	6017	CB	ASP	X	400	45.842	22.617	40.688	0.00	0.00
ATOM	6018	HB2	ASP	X	400	46.476	22.117	41.420	0.00	0.00
ATOM	6019	HB3	ASP	X	400	44.888	22.090	40.705	0.00	0.00
ATOM	6020	CG	ASP	X	400	46.291	22.305	39.247	0.00	0.00
ATOM	6021	OD1	ASP	X	400	46.332	23.183	38.360	0.00	0.00
ATOM	6022	OD2	ASP	X	400	46.632	21.132	38.932	0.00	0.00
ATOM	6023	C	ASP	X	400	44.596	24.309	42.152	0.00	0.00
ATOM	6024	O	ASP	X	400	43.851	25.286	42.102	0.00	0.00
ATOM	6025	N	HIE	X	401	44.668	23.433	43.227	0.00	0.00
ATOM	6026	H	HIE	X	401	45.356	22.694	43.180	0.00	0.00
ATOM	6027	CA	HIE	X	401	43.788	23.526	44.386	0.00	0.00

ATOM	6028	HA	HIE	X	401	42.812	23.222	44.008	0.00	0.00
ATOM	6029	CB	HIE	X	401	44.243	22.567	45.498	0.00	0.00
ATOM	6030	HB2	HIE	X	401	44.475	21.632	44.987	0.00	0.00
ATOM	6031	HB3	HIE	X	401	45.207	22.816	45.942	0.00	0.00
ATOM	6032	CG	HIE	X	401	43.299	22.335	46.662	0.00	0.00
ATOM	6033	ND1	HIE	X	401	43.038	23.270	47.586	0.00	0.00
ATOM	6034	CE1	HIE	X	401	42.309	22.691	48.518	0.00	0.00
ATOM	6035	HE1	HIE	X	401	41.808	23.161	49.351	0.00	0.00
ATOM	6036	NE2	HIE	X	401	42.036	21.454	48.179	0.00	0.00
ATOM	6037	HE2	HIE	X	401	41.554	20.760	48.733	0.00	0.00
ATOM	6038	CD2	HIE	X	401	42.712	21.199	47.059	0.00	0.00
ATOM	6039	HD2	HIE	X	401	42.742	20.262	46.522	0.00	0.00
ATOM	6040	C	HIE	X	401	43.563	24.935	44.945	0.00	0.00
ATOM	6041	O	HIE	X	401	42.395	25.316	45.302	0.00	0.00
ATOM	6042	N	ASN	X	402	44.642	25.708	44.947	0.00	0.00
ATOM	6043	H	ASN	X	402	45.555	25.376	44.671	0.00	0.00
ATOM	6044	CA	ASN	X	402	44.627	27.039	45.524	0.00	0.00
ATOM	6045	HA	ASN	X	402	43.853	27.135	46.285	0.00	0.00
ATOM	6046	CB	ASN	X	402	45.834	27.381	46.253	0.00	0.00
ATOM	6047	HB2	ASN	X	402	46.703	27.682	45.668	0.00	0.00
ATOM	6048	HB3	ASN	X	402	45.566	28.294	46.786	0.00	0.00
ATOM	6049	CG	ASN	X	402	46.239	26.428	47.261	0.00	0.00
ATOM	6050	OD1	ASN	X	402	45.923	26.689	48.400	0.00	0.00
ATOM	6051	ND2	ASN	X	402	47.130	25.463	47.110	0.00	0.00
ATOM	6052	HD21	ASN	X	402	47.253	24.846	47.900	0.00	0.00
ATOM	6053	HD22	ASN	X	402	47.502	25.215	46.205	0.00	0.00
ATOM	6054	C	ASN	X	402	44.338	28.107	44.473	0.00	0.00
ATOM	6055	O	ASN	X	402	44.160	29.253	44.847	0.00	0.00
ATOM	6056	N	VAL	X	403	44.448	27.794	43.174	0.00	0.00
ATOM	6057	H	VAL	X	403	44.712	26.912	42.760	0.00	0.00
ATOM	6058	CA	VAL	X	403	44.148	28.782	42.142	0.00	0.00
ATOM	6059	HA	VAL	X	403	43.428	29.499	42.538	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.305	29.717	41.715	0.00	0.00
ATOM	6061	HB	VAL	X	403	45.823	29.248	40.878	0.00	0.00
ATOM	6062	CG1	VAL	X	403	44.844	31.134	41.315	0.00	0.00
ATOM	6063	HG11	VAL	X	403	45.716	31.678	40.950	0.00	0.00
ATOM	6064	HG12	VAL	X	403	44.171	30.934	40.482	0.00	0.00
ATOM	6065	HG13	VAL	X	403	44.411	31.673	42.158	0.00	0.00
ATOM	6066	CG2	VAL	X	403	46.344	29.908	42.838	0.00	0.00
ATOM	6067	HG21	VAL	X	403	45.890	30.512	43.625	0.00	0.00
ATOM	6068	HG22	VAL	X	403	46.794	29.015	43.272	0.00	0.00
ATOM	6069	HG23	VAL	X	403	47.169	30.527	42.485	0.00	0.00
ATOM	6070	C	VAL	X	403	43.398	28.260	40.917	0.00	0.00
ATOM	6071	O	VAL	X	403	42.274	28.756	40.673	0.00	0.00
ATOM	6072	N	VAL	X	404	43.918	27.357	40.101	0.00	0.00
ATOM	6073	H	VAL	X	404	44.873	27.071	40.264	0.00	0.00
ATOM	6074	CA	VAL	X	404	43.273	27.070	38.784	0.00	0.00
ATOM	6075	HA	VAL	X	404	42.997	27.995	38.278	0.00	0.00
ATOM	6076	CB	VAL	X	404	44.225	26.286	37.859	0.00	0.00
ATOM	6077	HB	VAL	X	404	44.257	25.267	38.244	0.00	0.00
ATOM	6078	CG1	VAL	X	404	43.801	26.084	36.398	0.00	0.00
ATOM	6079	HG11	VAL	X	404	42.941	25.416	36.345	0.00	0.00
ATOM	6080	HG12	VAL	X	404	43.758	27.067	35.930	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.533	25.490	35.852	0.00	0.00
ATOM	6082	CG2	VAL	X	404	45.646	26.852	37.765	0.00	0.00
ATOM	6083	HG21	VAL	X	404	46.371	26.147	37.358	0.00	0.00
ATOM	6084	HG22	VAL	X	404	45.568	27.722	37.113	0.00	0.00
ATOM	6085	HG23	VAL	X	404	46.063	27.208	38.707	0.00	0.00
ATOM	6086	C	VAL	X	404	41.963	26.238	38.896	0.00	0.00
ATOM	6087	O	VAL	X	404	41.101	26.408	38.117	0.00	0.00
ATOM	6088	N	CYX	X	405	41.756	25.372	39.943	0.00	0.00
ATOM	6089	H	CYX	X	405	42.508	25.206	40.596	0.00	0.00
ATOM	6090	CA	CYX	X	405	40.540	24.563	40.209	0.00	0.00
ATOM	6091	HA	CYX	X	405	40.010	24.231	39.316	0.00	0.00
ATOM	6092	CB	CYX	X	405	40.849	23.337	41.007	0.00	0.00
ATOM	6093	HB2	CYX	X	405	41.289	23.644	41.956	0.00	0.00
ATOM	6094	HB3	CYX	X	405	39.904	22.817	41.164	0.00	0.00
ATOM	6095	SG	CYX	X	405	42.090	22.320	40.019	0.00	0.00
ATOM	6096	C	CYX	X	405	39.395	25.490	40.792	0.00	0.00
ATOM	6097	O	CYX	X	405	38.355	25.454	40.269	0.00	0.00

ATOM	6098	N	PRO	X	406	39.656	26.414	41.785	0.00	0.00
ATOM	6099	CD	PRO	X	406	40.627	26.232	42.921	0.00	0.00
ATOM	6100	HD2	PRO	X	406	41.612	26.337	42.469	0.00	0.00
ATOM	6101	HD3	PRO	X	406	40.548	25.309	43.496	0.00	0.00
ATOM	6102	CG	PRO	X	406	40.444	27.410	43.880	0.00	0.00
ATOM	6103	HG2	PRO	X	406	41.385	27.887	44.153	0.00	0.00
ATOM	6104	HG3	PRO	X	406	39.869	27.013	44.717	0.00	0.00
ATOM	6105	CB	PRO	X	406	39.636	28.404	43.091	0.00	0.00
ATOM	6106	HB2	PRO	X	406	40.372	29.045	42.607	0.00	0.00
ATOM	6107	HB3	PRO	X	406	38.990	29.053	43.682	0.00	0.00
ATOM	6108	CA	PRO	X	406	38.790	27.582	42.084	0.00	0.00
ATOM	6109	HA	PRO	X	406	37.971	27.051	42.570	0.00	0.00
ATOM	6110	C	PRO	X	406	38.209	28.376	40.884	0.00	0.00
ATOM	6111	O	PRO	X	406	37.026	28.613	40.712	0.00	0.00
ATOM	6112	N	VAL	X	407	39.137	28.772	40.037	0.00	0.00
ATOM	6113	H	VAL	X	407	40.131	28.719	40.206	0.00	0.00
ATOM	6114	CA	VAL	X	407	38.824	29.422	38.688	0.00	0.00
ATOM	6115	HA	VAL	X	407	38.388	30.418	38.761	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.163	29.888	38.069	0.00	0.00
ATOM	6117	HB	VAL	X	407	40.855	29.048	38.135	0.00	0.00
ATOM	6118	CG1	VAL	X	407	40.081	30.323	36.566	0.00	0.00
ATOM	6119	HG11	VAL	X	407	39.645	29.566	35.914	0.00	0.00
ATOM	6120	HG12	VAL	X	407	39.411	31.182	36.519	0.00	0.00
ATOM	6121	HG13	VAL	X	407	41.066	30.623	36.208	0.00	0.00
ATOM	6122	CG2	VAL	X	407	40.775	31.139	38.676	0.00	0.00
ATOM	6123	HG21	VAL	X	407	41.775	31.332	38.288	0.00	0.00
ATOM	6124	HG22	VAL	X	407	40.178	32.045	38.568	0.00	0.00
ATOM	6125	HG23	VAL	X	407	40.971	31.031	39.743	0.00	0.00
ATOM	6126	C	VAL	X	407	38.050	28.512	37.720	0.00	0.00
ATOM	6127	O	VAL	X	407	37.046	28.908	37.116	0.00	0.00
ATOM	6128	N	ALA	X	408	38.394	27.163	37.658	0.00	0.00
ATOM	6129	H	ALA	X	408	39.211	26.790	38.119	0.00	0.00
ATOM	6130	CA	ALA	X	408	37.593	26.190	36.840	0.00	0.00
ATOM	6131	HA	ALA	X	408	37.342	26.554	35.843	0.00	0.00
ATOM	6132	CB	ALA	X	408	38.372	24.948	36.565	0.00	0.00
ATOM	6133	HB1	ALA	X	408	38.341	24.299	37.441	0.00	0.00
ATOM	6134	HB2	ALA	X	408	38.005	24.397	35.699	0.00	0.00
ATOM	6135	HB3	ALA	X	408	39.417	25.115	36.303	0.00	0.00
ATOM	6136	C	ALA	X	408	36.174	25.855	37.455	0.00	0.00
ATOM	6137	O	ALA	X	408	35.192	25.585	36.780	0.00	0.00
ATOM	6138	N	GLN	X	409	36.013	25.951	38.809	0.00	0.00
ATOM	6139	H	GLN	X	409	36.742	26.126	39.486	0.00	0.00
ATOM	6140	CA	GLN	X	409	34.717	25.635	39.483	0.00	0.00
ATOM	6141	HA	GLN	X	409	34.189	24.925	38.847	0.00	0.00
ATOM	6142	CB	GLN	X	409	35.112	25.109	40.946	0.00	0.00
ATOM	6143	HB2	GLN	X	409	35.760	24.237	40.850	0.00	0.00
ATOM	6144	HB3	GLN	X	409	35.577	25.870	41.572	0.00	0.00
ATOM	6145	CG	GLN	X	409	33.881	24.582	41.591	0.00	0.00
ATOM	6146	HG2	GLN	X	409	33.392	25.479	41.972	0.00	0.00
ATOM	6147	HG3	GLN	X	409	33.189	24.112	40.892	0.00	0.00
ATOM	6148	CD	GLN	X	409	34.156	23.542	42.658	0.00	0.00
ATOM	6149	OE1	GLN	X	409	34.092	22.335	42.415	0.00	0.00
ATOM	6150	NE2	GLN	X	409	34.444	23.807	43.946	0.00	0.00
ATOM	6151	HE21	GLN	X	409	34.593	23.060	44.609	0.00	0.00
ATOM	6152	HE22	GLN	X	409	34.508	24.749	44.305	0.00	0.00
ATOM	6153	C	GLN	X	409	33.760	26.850	39.420	0.00	0.00
ATOM	6154	O	GLN	X	409	32.611	26.634	39.147	0.00	0.00
ATOM	6155	N	LEU	X	410	34.243	28.072	39.715	0.00	0.00
ATOM	6156	H	LEU	X	410	35.204	28.140	40.018	0.00	0.00
ATOM	6157	CA	LEU	X	410	33.544	29.267	39.351	0.00	0.00
ATOM	6158	HA	LEU	X	410	32.775	29.514	40.083	0.00	0.00
ATOM	6159	CB	LEU	X	410	34.667	30.397	39.492	0.00	0.00
ATOM	6160	HB2	LEU	X	410	35.109	30.444	40.487	0.00	0.00
ATOM	6161	HB3	LEU	X	410	35.486	30.177	38.808	0.00	0.00
ATOM	6162	CG	LEU	X	410	34.183	31.783	39.060	0.00	0.00
ATOM	6163	HG	LEU	X	410	33.697	31.764	38.084	0.00	0.00
ATOM	6164	CD1	LEU	X	410	33.173	32.382	40.103	0.00	0.00
ATOM	6165	HD11	LEU	X	410	32.902	33.401	39.828	0.00	0.00
ATOM	6166	HD12	LEU	X	410	32.278	31.761	40.064	0.00	0.00
ATOM	6167	HD13	LEU	X	410	33.711	32.310	41.049	0.00	0.00

ATOM	6168	CD2	LEU	X	410	35.400	32.791	38.919	0.00	0.00
ATOM	6169	HD21	LEU	X	410	35.816	32.903	39.920	0.00	0.00
ATOM	6170	HD22	LEU	X	410	36.104	32.320	38.234	0.00	0.00
ATOM	6171	HD23	LEU	X	410	35.144	33.777	38.531	0.00	0.00
ATOM	6172	C	LEU	X	410	32.973	29.274	37.947	0.00	0.00
ATOM	6173	O	LEU	X	410	31.779	29.471	37.794	0.00	0.00
ATOM	6174	N	ALA	X	411	33.899	29.108	37.000	0.00	0.00
ATOM	6175	H	ALA	X	411	34.866	29.018	37.279	0.00	0.00
ATOM	6176	CA	ALA	X	411	33.576	28.974	35.596	0.00	0.00
ATOM	6177	HA	ALA	X	411	33.047	29.849	35.220	0.00	0.00
ATOM	6178	CB	ALA	X	411	34.864	28.858	34.682	0.00	0.00
ATOM	6179	HB1	ALA	X	411	35.626	29.582	34.971	0.00	0.00
ATOM	6180	HB2	ALA	X	411	35.394	27.909	34.748	0.00	0.00
ATOM	6181	HB3	ALA	X	411	34.631	29.011	33.628	0.00	0.00
ATOM	6182	C	ALA	X	411	32.448	27.967	35.309	0.00	0.00
ATOM	6183	O	ALA	X	411	31.442	28.340	34.570	0.00	0.00
ATOM	6184	N	GLY	X	412	32.570	26.757	35.862	0.00	0.00
ATOM	6185	H	GLY	X	412	33.169	26.722	36.674	0.00	0.00
ATOM	6186	CA	GLY	X	412	31.542	25.697	35.725	0.00	0.00
ATOM	6187	HA2	GLY	X	412	31.357	25.470	34.653	0.00	0.00
ATOM	6188	HA3	GLY	X	412	31.793	24.756	36.222	0.00	0.00
ATOM	6189	C	GLY	X	412	30.214	26.157	36.377	0.00	0.00
ATOM	6190	O	GLY	X	412	29.222	26.115	35.721	0.00	0.00
ATOM	6191	N	ARG	X	413	30.246	26.670	37.683	0.00	0.00
ATOM	6192	H	ARG	X	413	31.109	26.769	38.199	0.00	0.00
ATOM	6193	CA	ARG	X	413	28.980	27.030	38.414	0.00	0.00
ATOM	6194	HA	ARG	X	413	28.228	26.261	38.238	0.00	0.00
ATOM	6195	CB	ARG	X	413	29.277	27.387	39.926	0.00	0.00
ATOM	6196	HB2	ARG	X	413	30.258	27.859	39.988	0.00	0.00
ATOM	6197	HB3	ARG	X	413	28.670	28.186	40.353	0.00	0.00
ATOM	6198	CG	ARG	X	413	29.165	26.194	40.843	0.00	0.00
ATOM	6199	HG2	ARG	X	413	29.237	26.577	41.861	0.00	0.00
ATOM	6200	HG3	ARG	X	413	28.159	25.776	40.790	0.00	0.00
ATOM	6201	CD	ARG	X	413	30.210	24.998	40.602	0.00	0.00
ATOM	6202	HD2	ARG	X	413	30.237	24.524	39.621	0.00	0.00
ATOM	6203	HD3	ARG	X	413	31.130	25.563	40.747	0.00	0.00
ATOM	6204	NE	ARG	X	413	30.163	24.076	41.698	0.00	0.00
ATOM	6205	HE	ARG	X	413	30.667	24.334	42.534	0.00	0.00
ATOM	6206	CZ	ARG	X	413	29.528	22.869	41.761	0.00	0.00
ATOM	6207	NH1	ARG	X	413	29.039	22.316	40.719	0.00	0.00
ATOM	6208	HH11	ARG	X	413	28.969	22.810	39.840	0.00	0.00
ATOM	6209	HH12	ARG	X	413	28.998	21.307	40.700	0.00	0.00
ATOM	6210	NH2	ARG	X	413	29.691	22.184	42.837	0.00	0.00
ATOM	6211	HH21	ARG	X	413	30.185	22.547	43.640	0.00	0.00
ATOM	6212	HH22	ARG	X	413	29.076	21.396	42.980	0.00	0.00
ATOM	6213	C	ARG	X	413	28.183	28.098	37.765	0.00	0.00
ATOM	6214	O	ARG	X	413	27.014	27.955	37.365	0.00	0.00
ATOM	6215	N	LEU	X	414	28.895	29.141	37.366	0.00	0.00
ATOM	6216	H	LEU	X	414	29.840	29.132	37.723	0.00	0.00
ATOM	6217	CA	LEU	X	414	28.408	30.265	36.567	0.00	0.00
ATOM	6218	HA	LEU	X	414	27.640	30.784	37.141	0.00	0.00
ATOM	6219	CB	LEU	X	414	29.553	31.287	36.275	0.00	0.00
ATOM	6220	HB2	LEU	X	414	30.441	30.735	35.969	0.00	0.00
ATOM	6221	HB3	LEU	X	414	29.306	32.001	35.489	0.00	0.00
ATOM	6222	CG	LEU	X	414	30.129	32.166	37.414	0.00	0.00
ATOM	6223	HG	LEU	X	414	30.570	31.590	38.227	0.00	0.00
ATOM	6224	CD1	LEU	X	414	31.285	33.021	36.906	0.00	0.00
ATOM	6225	HD11	LEU	X	414	31.015	33.879	36.292	0.00	0.00
ATOM	6226	HD12	LEU	X	414	31.947	33.429	37.669	0.00	0.00
ATOM	6227	HD13	LEU	X	414	32.029	32.416	36.387	0.00	0.00
ATOM	6228	CD2	LEU	X	414	29.048	33.062	38.023	0.00	0.00
ATOM	6229	HD21	LEU	X	414	28.453	33.609	37.292	0.00	0.00
ATOM	6230	HD22	LEU	X	414	28.145	32.644	38.467	0.00	0.00
ATOM	6231	HD23	LEU	X	414	29.385	33.826	38.724	0.00	0.00
ATOM	6232	C	LEU	X	414	27.778	29.859	35.227	0.00	0.00
ATOM	6233	O	LEU	X	414	26.618	30.151	34.938	0.00	0.00
ATOM	6234	N	ALA	X	415	28.496	29.094	34.386	0.00	0.00
ATOM	6235	H	ALA	X	415	29.401	28.806	34.732	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.009	28.734	33.046	0.00	0.00
ATOM	6237	HA	ALA	X	415	27.613	29.632	32.572	0.00	0.00

ATOM	6238	CB	ALA	X	415	29.222	28.264	32.192	0.00	0.00
ATOM	6239	HB1	ALA	X	415	29.776	27.450	32.660	0.00	0.00
ATOM	6240	HB2	ALA	X	415	28.911	27.968	31.190	0.00	0.00
ATOM	6241	HB3	ALA	X	415	29.958	29.068	32.170	0.00	0.00
ATOM	6242	C	ALA	X	415	26.768	27.878	33.062	0.00	0.00
ATOM	6243	O	ALA	X	415	26.048	27.711	32.084	0.00	0.00
ATOM	6244	N	ALA	X	416	26.527	27.233	34.220	0.00	0.00
ATOM	6245	H	ALA	X	416	27.079	27.503	35.022	0.00	0.00
ATOM	6246	CA	ALA	X	416	25.405	26.308	34.347	0.00	0.00
ATOM	6247	HA	ALA	X	416	25.187	25.775	33.422	0.00	0.00
ATOM	6248	CB	ALA	X	416	25.913	25.155	35.329	0.00	0.00
ATOM	6249	HB1	ALA	X	416	25.114	24.426	35.469	0.00	0.00
ATOM	6250	HB2	ALA	X	416	26.773	24.569	35.007	0.00	0.00
ATOM	6251	HB3	ALA	X	416	26.183	25.494	36.329	0.00	0.00
ATOM	6252	C	ALA	X	416	24.181	26.997	35.004	0.00	0.00
ATOM	6253	O	ALA	X	416	23.138	26.474	34.699	0.00	0.00
ATOM	6254	N	GLN	X	417	24.399	27.930	35.918	0.00	0.00
ATOM	6255	H	GLN	X	417	25.361	28.152	36.130	0.00	0.00
ATOM	6256	CA	GLN	X	417	23.362	28.674	36.622	0.00	0.00
ATOM	6257	HA	GLN	X	417	22.472	28.056	36.740	0.00	0.00
ATOM	6258	CB	GLN	X	417	23.879	28.868	38.040	0.00	0.00
ATOM	6259	HB2	GLN	X	417	24.929	29.123	37.901	0.00	0.00
ATOM	6260	HB3	GLN	X	417	23.453	29.728	38.558	0.00	0.00
ATOM	6261	CG	GLN	X	417	23.749	27.571	38.905	0.00	0.00
ATOM	6262	HG2	GLN	X	417	22.783	27.571	39.410	0.00	0.00
ATOM	6263	HG3	GLN	X	417	24.043	26.696	38.327	0.00	0.00
ATOM	6264	CD	GLN	X	417	24.851	27.549	39.972	0.00	0.00
ATOM	6265	OE1	GLN	X	417	25.799	26.821	39.852	0.00	0.00
ATOM	6266	NE2	GLN	X	417	24.830	28.369	40.958	0.00	0.00
ATOM	6267	HE21	GLN	X	417	25.638	28.360	41.563	0.00	0.00
ATOM	6268	HE22	GLN	X	417	23.940	28.818	41.119	0.00	0.00
ATOM	6269	C	GLN	X	417	22.880	29.917	35.901	0.00	0.00
ATOM	6270	O	GLN	X	417	22.019	30.620	36.404	0.00	0.00
ATOM	6271	N	GLY	X	418	23.405	30.181	34.693	0.00	0.00
ATOM	6272	H	GLY	X	418	24.202	29.602	34.469	0.00	0.00
ATOM	6273	CA	GLY	X	418	22.845	31.051	33.713	0.00	0.00
ATOM	6274	HA2	GLY	X	418	22.481	30.439	32.890	0.00	0.00
ATOM	6275	HA3	GLY	X	418	21.983	31.500	34.200	0.00	0.00
ATOM	6276	C	GLY	X	418	23.770	32.113	33.032	0.00	0.00
ATOM	6277	O	GLY	X	418	23.259	32.907	32.232	0.00	0.00
ATOM	6278	N	ALA	X	419	25.048	32.248	33.403	0.00	0.00
ATOM	6279	H	ALA	X	419	25.558	31.657	34.044	0.00	0.00
ATOM	6280	CA	ALA	X	419	25.946	33.320	32.860	0.00	0.00
ATOM	6281	HA	ALA	X	419	25.355	34.215	32.662	0.00	0.00
ATOM	6282	CB	ALA	X	419	26.937	33.612	34.038	0.00	0.00
ATOM	6283	HB1	ALA	X	419	27.710	34.313	33.725	0.00	0.00
ATOM	6284	HB2	ALA	X	419	26.410	34.067	34.877	0.00	0.00
ATOM	6285	HB3	ALA	X	419	27.449	32.687	34.302	0.00	0.00
ATOM	6286	C	ALA	X	419	26.637	32.898	31.582	0.00	0.00
ATOM	6287	O	ALA	X	419	26.750	31.679	31.221	0.00	0.00
ATOM	6288	N	ARG	X	420	27.071	33.925	30.797	0.00	0.00
ATOM	6289	H	ARG	X	420	27.110	34.835	31.234	0.00	0.00
ATOM	6290	CA	ARG	X	420	28.003	33.655	29.761	0.00	0.00
ATOM	6291	HA	ARG	X	420	27.867	32.633	29.407	0.00	0.00
ATOM	6292	CB	ARG	X	420	27.674	34.584	28.573	0.00	0.00
ATOM	6293	HB2	ARG	X	420	26.603	34.424	28.446	0.00	0.00
ATOM	6294	HB3	ARG	X	420	27.906	35.630	28.773	0.00	0.00
ATOM	6295	CG	ARG	X	420	28.309	34.098	27.310	0.00	0.00
ATOM	6296	HG2	ARG	X	420	29.379	34.297	27.375	0.00	0.00
ATOM	6297	HG3	ARG	X	420	28.148	33.032	27.148	0.00	0.00
ATOM	6298	CD	ARG	X	420	27.760	34.798	26.082	0.00	0.00
ATOM	6299	HD2	ARG	X	420	27.971	35.857	26.233	0.00	0.00
ATOM	6300	HD3	ARG	X	420	28.387	34.503	25.241	0.00	0.00
ATOM	6301	NE	ARG	X	420	26.361	34.421	25.967	0.00	0.00
ATOM	6302	HE	ARG	X	420	26.082	33.623	26.520	0.00	0.00
ATOM	6303	CZ	ARG	X	420	25.502	35.089	25.183	0.00	0.00
ATOM	6304	NH1	ARG	X	420	25.791	36.121	24.432	0.00	0.00
ATOM	6305	HH11	ARG	X	420	26.752	36.430	24.408	0.00	0.00
ATOM	6306	HH12	ARG	X	420	25.008	36.576	23.986	0.00	0.00
ATOM	6307	NH2	ARG	X	420	24.254	34.729	25.203	0.00	0.00

ATOM	6308	HH21	ARG	X	420	23.929	33.952	25.762	0.00	0.00
ATOM	6309	HH22	ARG	X	420	23.625	35.175	24.550	0.00	0.00
ATOM	6310	C	ARG	X	420	29.467	33.899	30.160	0.00	0.00
ATOM	6311	O	ARG	X	420	29.793	34.989	30.677	0.00	0.00
ATOM	6312	N	VAL	X	421	30.222	32.825	30.009	0.00	0.00
ATOM	6313	H	VAL	X	421	29.851	31.965	29.630	0.00	0.00
ATOM	6314	CA	VAL	X	421	31.596	32.736	30.539	0.00	0.00
ATOM	6315	HA	VAL	X	421	31.847	33.548	31.222	0.00	0.00
ATOM	6316	CB	VAL	X	421	31.674	31.581	31.502	0.00	0.00
ATOM	6317	HB	VAL	X	421	31.364	30.642	31.044	0.00	0.00
ATOM	6318	CG1	VAL	X	421	33.059	31.377	32.124	0.00	0.00
ATOM	6319	HG11	VAL	X	421	33.692	30.974	31.335	0.00	0.00
ATOM	6320	HG12	VAL	X	421	33.380	32.389	32.373	0.00	0.00
ATOM	6321	HG13	VAL	X	421	33.163	30.632	32.913	0.00	0.00
ATOM	6322	CG2	VAL	X	421	30.749	31.813	32.705	0.00	0.00
ATOM	6323	HG21	VAL	X	421	30.480	30.931	33.286	0.00	0.00
ATOM	6324	HG22	VAL	X	421	31.159	32.543	33.402	0.00	0.00
ATOM	6325	HG23	VAL	X	421	29.846	32.391	32.509	0.00	0.00
ATOM	6326	C	VAL	X	421	32.658	32.709	29.463	0.00	0.00
ATOM	6327	O	VAL	X	421	32.465	32.239	28.406	0.00	0.00
ATOM	6328	N	TYR	X	422	33.882	33.170	29.839	0.00	0.00
ATOM	6329	H	TYR	X	422	34.016	33.474	30.793	0.00	0.00
ATOM	6330	CA	TYR	X	422	35.080	33.155	29.005	0.00	0.00
ATOM	6331	HA	TYR	X	422	35.014	32.393	28.228	0.00	0.00
ATOM	6332	CB	TYR	X	422	35.140	34.505	28.310	0.00	0.00
ATOM	6333	HB2	TYR	X	422	35.193	35.330	29.020	0.00	0.00
ATOM	6334	HB3	TYR	X	422	36.031	34.398	27.690	0.00	0.00
ATOM	6335	CG	TYR	X	422	34.046	34.893	27.348	0.00	0.00
ATOM	6336	CD1	TYR	X	422	34.070	34.528	25.994	0.00	0.00
ATOM	6337	HD1	TYR	X	422	34.863	33.872	25.666	0.00	0.00
ATOM	6338	CE1	TYR	X	422	33.127	34.991	25.080	0.00	0.00
ATOM	6339	HE1	TYR	X	422	33.254	34.840	24.019	0.00	0.00
ATOM	6340	CZ	TYR	X	422	32.166	35.905	25.454	0.00	0.00
ATOM	6341	OH	TYR	X	422	31.199	36.343	24.556	0.00	0.00
ATOM	6342	HH	TYR	X	422	31.396	35.931	23.712	0.00	0.00
ATOM	6343	CE2	TYR	X	422	32.061	36.245	26.794	0.00	0.00
ATOM	6344	HE2	TYR	X	422	31.371	37.001	27.139	0.00	0.00
ATOM	6345	CD2	TYR	X	422	32.999	35.792	27.727	0.00	0.00
ATOM	6346	HD2	TYR	X	422	32.987	36.119	28.756	0.00	0.00
ATOM	6347	C	TYR	X	422	36.319	32.877	29.707	0.00	0.00
ATOM	6348	O	TYR	X	422	36.888	33.708	30.484	0.00	0.00
ATOM	6349	N	ALA	X	423	36.912	31.685	29.483	0.00	0.00
ATOM	6350	H	ALA	X	423	36.484	31.104	28.777	0.00	0.00
ATOM	6351	CA	ALA	X	423	38.170	31.291	30.156	0.00	0.00
ATOM	6352	HA	ALA	X	423	38.422	31.857	31.053	0.00	0.00
ATOM	6353	CB	ALA	X	423	37.979	29.850	30.668	0.00	0.00
ATOM	6354	HB1	ALA	X	423	38.970	29.555	31.013	0.00	0.00
ATOM	6355	HB2	ALA	X	423	37.220	29.770	31.446	0.00	0.00
ATOM	6356	HB3	ALA	X	423	37.704	29.181	29.853	0.00	0.00
ATOM	6357	C	ALA	X	423	39.366	31.506	29.232	0.00	0.00
ATOM	6358	O	ALA	X	423	39.283	31.498	28.041	0.00	0.00
ATOM	6359	N	TYR	X	424	40.474	31.812	29.874	0.00	0.00
ATOM	6360	H	TYR	X	424	40.426	32.073	30.849	0.00	0.00
ATOM	6361	CA	TYR	X	424	41.874	31.866	29.368	0.00	0.00
ATOM	6362	HA	TYR	X	424	41.761	31.343	28.419	0.00	0.00
ATOM	6363	CB	TYR	X	424	42.359	33.282	29.011	0.00	0.00
ATOM	6364	HB2	TYR	X	424	43.336	33.058	28.583	0.00	0.00
ATOM	6365	HB3	TYR	X	424	41.683	33.789	28.322	0.00	0.00
ATOM	6366	CG	TYR	X	424	42.774	34.127	30.194	0.00	0.00
ATOM	6367	CD1	TYR	X	424	44.124	34.137	30.535	0.00	0.00
ATOM	6368	HD1	TYR	X	424	44.879	33.622	29.961	0.00	0.00
ATOM	6369	CE1	TYR	X	424	44.531	34.944	31.615	0.00	0.00
ATOM	6370	HE1	TYR	X	424	45.559	35.015	31.938	0.00	0.00
ATOM	6371	CZ	TYR	X	424	43.563	35.679	32.392	0.00	0.00
ATOM	6372	OH	TYR	X	424	43.998	36.403	33.378	0.00	0.00
ATOM	6373	HH	TYR	X	424	44.892	36.750	33.429	0.00	0.00
ATOM	6374	CE2	TYR	X	424	42.174	35.612	32.034	0.00	0.00
ATOM	6375	HE2	TYR	X	424	41.472	36.166	32.639	0.00	0.00
ATOM	6376	CD2	TYR	X	424	41.818	34.840	30.941	0.00	0.00
ATOM	6377	HD2	TYR	X	424	40.815	34.966	30.561	0.00	0.00

ATOM	6378	C	TYR	X	424	42.882	31.179	30.318	0.00	0.00
ATOM	6379	O	TYR	X	424	42.738	31.193	31.507	0.00	0.00
ATOM	6380	N	VAL	X	425	43.951	30.622	29.679	0.00	0.00
ATOM	6381	H	VAL	X	425	43.943	30.570	28.671	0.00	0.00
ATOM	6382	CA	VAL	X	425	45.283	30.428	30.234	0.00	0.00
ATOM	6383	HA	VAL	X	425	45.247	30.861	31.234	0.00	0.00
ATOM	6384	CB	VAL	X	425	45.775	28.971	30.252	0.00	0.00
ATOM	6385	HB	VAL	X	425	45.801	28.593	29.230	0.00	0.00
ATOM	6386	CG1	VAL	X	425	47.220	28.942	30.827	0.00	0.00
ATOM	6387	HG11	VAL	X	425	47.435	27.956	31.241	0.00	0.00
ATOM	6388	HG12	VAL	X	425	47.907	29.171	30.013	0.00	0.00
ATOM	6389	HG13	VAL	X	425	47.326	29.579	31.705	0.00	0.00
ATOM	6390	CG2	VAL	X	425	44.810	28.023	31.063	0.00	0.00
ATOM	6391	HG21	VAL	X	425	44.926	28.082	32.145	0.00	0.00
ATOM	6392	HG22	VAL	X	425	43.777	28.327	30.891	0.00	0.00
ATOM	6393	HG23	VAL	X	425	45.000	26.979	30.816	0.00	0.00
ATOM	6394	C	VAL	X	425	46.180	31.271	29.274	0.00	0.00
ATOM	6395	O	VAL	X	425	46.049	31.178	28.071	0.00	0.00
ATOM	6396	N	PHE	X	426	47.077	32.066	29.913	0.00	0.00
ATOM	6397	H	PHE	X	426	46.980	32.092	30.917	0.00	0.00
ATOM	6398	CA	PHE	X	426	48.153	32.889	29.319	0.00	0.00
ATOM	6399	HA	PHE	X	426	47.909	33.156	28.290	0.00	0.00
ATOM	6400	CB	PHE	X	426	48.209	34.243	30.091	0.00	0.00
ATOM	6401	HB2	PHE	X	426	47.265	34.788	30.076	0.00	0.00
ATOM	6402	HB3	PHE	X	426	48.494	33.955	31.102	0.00	0.00
ATOM	6403	CG	PHE	X	426	49.217	35.286	29.669	0.00	0.00
ATOM	6404	CD1	PHE	X	426	48.949	36.137	28.620	0.00	0.00
ATOM	6405	HD1	PHE	X	426	47.980	36.087	28.146	0.00	0.00
ATOM	6406	CE1	PHE	X	426	49.710	37.206	28.251	0.00	0.00
ATOM	6407	HE1	PHE	X	426	49.473	37.855	27.421	0.00	0.00
ATOM	6408	CZ	PHE	X	426	51.043	37.224	28.803	0.00	0.00
ATOM	6409	HZ	PHE	X	426	51.779	37.945	28.478	0.00	0.00
ATOM	6410	CE2	PHE	X	426	51.441	36.274	29.751	0.00	0.00
ATOM	6411	HE2	PHE	X	426	52.420	36.274	30.205	0.00	0.00
ATOM	6412	CD2	PHE	X	426	50.510	35.297	30.180	0.00	0.00
ATOM	6413	HD2	PHE	X	426	50.905	34.591	30.895	0.00	0.00
ATOM	6414	C	PHE	X	426	49.492	32.219	29.375	0.00	0.00
ATOM	6415	O	PHE	X	426	49.829	31.595	30.390	0.00	0.00
ATOM	6416	N	GLU	X	427	50.303	32.395	28.349	0.00	0.00
ATOM	6417	H	GLU	X	427	49.864	32.774	27.522	0.00	0.00
ATOM	6418	CA	GLU	X	427	51.592	31.652	28.254	0.00	0.00
ATOM	6419	HA	GLU	X	427	51.956	31.570	29.278	0.00	0.00
ATOM	6420	CB	GLU	X	427	51.295	30.248	27.742	0.00	0.00
ATOM	6421	HB2	GLU	X	427	52.147	29.578	27.851	0.00	0.00
ATOM	6422	HB3	GLU	X	427	50.459	29.852	28.318	0.00	0.00
ATOM	6423	CG	GLU	X	427	50.894	30.187	26.319	0.00	0.00
ATOM	6424	HG2	GLU	X	427	49.984	30.774	26.191	0.00	0.00
ATOM	6425	HG3	GLU	X	427	51.744	30.514	25.721	0.00	0.00
ATOM	6426	CD	GLU	X	427	50.371	28.793	25.817	0.00	0.00
ATOM	6427	OE1	GLU	X	427	49.550	28.806	24.851	0.00	0.00
ATOM	6428	OE2	GLU	X	427	50.798	27.753	26.285	0.00	0.00
ATOM	6429	C	GLU	X	427	52.718	32.420	27.514	0.00	0.00
ATOM	6430	O	GLU	X	427	53.807	31.914	27.400	0.00	0.00
ATOM	6431	N	HIE	X	428	52.497	33.687	27.130	0.00	0.00
ATOM	6432	H	HIE	X	428	51.585	34.090	27.291	0.00	0.00
ATOM	6433	CA	HIE	X	428	53.664	34.472	26.651	0.00	0.00
ATOM	6434	HA	HIE	X	428	54.188	33.896	25.888	0.00	0.00
ATOM	6435	CB	HIE	X	428	53.241	35.723	25.923	0.00	0.00
ATOM	6436	HB2	HIE	X	428	52.558	35.464	25.114	0.00	0.00
ATOM	6437	HB3	HIE	X	428	52.663	36.430	26.519	0.00	0.00
ATOM	6438	CG	HIE	X	428	54.343	36.488	25.161	0.00	0.00
ATOM	6439	ND1	HIE	X	428	55.311	35.898	24.307	0.00	0.00
ATOM	6440	CE1	HIE	X	428	56.347	36.749	24.060	0.00	0.00
ATOM	6441	HE1	HIE	X	428	57.190	36.652	23.391	0.00	0.00
ATOM	6442	NE2	HIE	X	428	56.068	37.878	24.761	0.00	0.00
ATOM	6443	HE2	HIE	X	428	56.599	38.736	24.802	0.00	0.00
ATOM	6444	CD2	HIE	X	428	54.852	37.741	25.441	0.00	0.00
ATOM	6445	HD2	HIE	X	428	54.403	38.527	26.031	0.00	0.00
ATOM	6446	C	HIE	X	428	54.569	34.934	27.764	0.00	0.00
ATOM	6447	O	HIE	X	428	54.264	35.644	28.682	0.00	0.00

ATOM	6448	N	ARG	X	429	55.845	34.451	27.701	0.00	0.00
ATOM	6449	H	ARG	X	429	56.046	33.764	26.989	0.00	0.00
ATOM	6450	CA	ARG	X	429	56.970	34.971	28.472	0.00	0.00
ATOM	6451	HA	ARG	X	429	56.534	35.281	29.422	0.00	0.00
ATOM	6452	CB	ARG	X	429	58.006	33.876	28.790	0.00	0.00
ATOM	6453	HB2	ARG	X	429	57.388	33.005	29.006	0.00	0.00
ATOM	6454	HB3	ARG	X	429	58.596	33.594	27.917	0.00	0.00
ATOM	6455	CG	ARG	X	429	58.823	34.357	29.929	0.00	0.00
ATOM	6456	HG2	ARG	X	429	59.244	35.334	29.693	0.00	0.00
ATOM	6457	HG3	ARG	X	429	58.149	34.498	30.774	0.00	0.00
ATOM	6458	CD	ARG	X	429	59.877	33.258	30.173	0.00	0.00
ATOM	6459	HD2	ARG	X	429	59.416	32.288	29.988	0.00	0.00
ATOM	6460	HD3	ARG	X	429	60.700	33.334	29.462	0.00	0.00
ATOM	6461	NE	ARG	X	429	60.285	33.420	31.620	0.00	0.00
ATOM	6462	HE	ARG	X	429	59.543	33.045	32.194	0.00	0.00
ATOM	6463	CZ	ARG	X	429	61.421	33.757	32.297	0.00	0.00
ATOM	6464	NH1	ARG	X	429	62.515	34.075	31.642	0.00	0.00
ATOM	6465	HH11	ARG	X	429	62.518	34.015	30.634	0.00	0.00
ATOM	6466	HH12	ARG	X	429	63.334	34.284	32.195	0.00	0.00
ATOM	6467	NH2	ARG	X	429	61.399	33.733	33.600	0.00	0.00
ATOM	6468	HH21	ARG	X	429	60.500	33.604	34.041	0.00	0.00
ATOM	6469	HH22	ARG	X	429	62.233	34.049	34.074	0.00	0.00
ATOM	6470	C	ARG	X	429	57.553	36.235	27.795	0.00	0.00
ATOM	6471	O	ARG	X	429	58.231	36.011	26.781	0.00	0.00
ATOM	6472	N	ALA	X	430	57.380	37.466	28.273	0.00	0.00
ATOM	6473	H	ALA	X	430	56.707	37.574	29.018	0.00	0.00
ATOM	6474	CA	ALA	X	430	57.923	38.732	27.756	0.00	0.00
ATOM	6475	HA	ALA	X	430	57.537	38.846	26.743	0.00	0.00
ATOM	6476	CB	ALA	X	430	57.357	39.944	28.498	0.00	0.00
ATOM	6477	HB1	ALA	X	430	57.720	39.817	29.518	0.00	0.00
ATOM	6478	HB2	ALA	X	430	57.889	40.795	28.072	0.00	0.00
ATOM	6479	HB3	ALA	X	430	56.275	40.027	28.391	0.00	0.00
ATOM	6480	C	ALA	X	430	59.422	38.839	27.665	0.00	0.00
ATOM	6481	O	ALA	X	430	60.139	38.240	28.432	0.00	0.00
ATOM	6482	N	SER	X	431	59.905	39.623	26.696	0.00	0.00
ATOM	6483	H	SER	X	431	59.240	39.942	26.005	0.00	0.00
ATOM	6484	CA	SER	X	431	61.328	40.003	26.590	0.00	0.00
ATOM	6485	HA	SER	X	431	61.930	39.094	26.576	0.00	0.00
ATOM	6486	CB	SER	X	431	61.515	40.654	25.272	0.00	0.00
ATOM	6487	HB2	SER	X	431	62.532	41.004	25.094	0.00	0.00
ATOM	6488	HB3	SER	X	431	61.224	39.974	24.472	0.00	0.00
ATOM	6489	OG	SER	X	431	60.779	41.926	25.235	0.00	0.00
ATOM	6490	HG	SER	X	431	60.125	41.833	24.538	0.00	0.00
ATOM	6491	C	SER	X	431	61.945	40.828	27.753	0.00	0.00
ATOM	6492	O	SER	X	431	63.118	41.214	27.767	0.00	0.00
ATOM	6493	N	THR	X	432	61.151	41.057	28.815	0.00	0.00
ATOM	6494	H	THR	X	432	60.241	40.628	28.903	0.00	0.00
ATOM	6495	CA	THR	X	432	61.694	41.588	30.111	0.00	0.00
ATOM	6496	HA	THR	X	432	62.716	41.252	30.285	0.00	0.00
ATOM	6497	CB	THR	X	432	61.528	43.096	30.254	0.00	0.00
ATOM	6498	HB	THR	X	432	60.514	43.424	30.027	0.00	0.00
ATOM	6499	CG2	THR	X	432	61.897	43.625	31.643	0.00	0.00
ATOM	6500	HG21	THR	X	432	62.013	44.708	31.661	0.00	0.00
ATOM	6501	HG22	THR	X	432	61.138	43.281	32.345	0.00	0.00
ATOM	6502	HG23	THR	X	432	62.902	43.269	31.867	0.00	0.00
ATOM	6503	OG1	THR	X	432	62.537	43.694	29.517	0.00	0.00
ATOM	6504	HG1	THR	X	432	62.358	43.411	28.617	0.00	0.00
ATOM	6505	C	THR	X	432	60.784	41.056	31.244	0.00	0.00
ATOM	6506	O	THR	X	432	59.566	41.365	31.244	0.00	0.00
ATOM	6507	N	LEU	X	433	61.304	40.185	32.169	0.00	0.00
ATOM	6508	H	LEU	X	433	62.216	39.810	31.947	0.00	0.00
ATOM	6509	CA	LEU	X	433	60.566	39.485	33.186	0.00	0.00
ATOM	6510	HA	LEU	X	433	59.935	40.260	33.621	0.00	0.00
ATOM	6511	CB	LEU	X	433	59.905	38.234	32.562	0.00	0.00
ATOM	6512	HB2	LEU	X	433	59.164	38.613	31.857	0.00	0.00
ATOM	6513	HB3	LEU	X	433	60.577	37.598	31.986	0.00	0.00
ATOM	6514	CG	LEU	X	433	59.377	37.270	33.680	0.00	0.00
ATOM	6515	HG	LEU	X	433	60.217	36.819	34.209	0.00	0.00
ATOM	6516	CD1	LEU	X	433	58.551	37.882	34.793	0.00	0.00
ATOM	6517	HD11	LEU	X	433	58.074	37.110	35.397	0.00	0.00

ATOM	6518	HD12	LEU	X	433	59.142	38.532	35.438	0.00	0.00
ATOM	6519	HD13	LEU	X	433	57.716	38.449	34.381	0.00	0.00
ATOM	6520	CD2	LEU	X	433	58.638	36.126	32.920	0.00	0.00
ATOM	6521	HD21	LEU	X	433	58.182	35.447	33.641	0.00	0.00
ATOM	6522	HD22	LEU	X	433	57.851	36.573	32.312	0.00	0.00
ATOM	6523	HD23	LEU	X	433	59.402	35.523	32.430	0.00	0.00
ATOM	6524	C	LEU	X	433	61.603	39.240	34.313	0.00	0.00
ATOM	6525	O	LEU	X	433	62.564	38.530	34.135	0.00	0.00
ATOM	6526	N	SER	X	434	61.497	39.886	35.475	0.00	0.00
ATOM	6527	H	SER	X	434	60.630	40.373	35.649	0.00	0.00
ATOM	6528	CA	SER	X	434	62.610	39.780	36.511	0.00	0.00
ATOM	6529	HA	SER	X	434	63.549	40.096	36.056	0.00	0.00
ATOM	6530	CB	SER	X	434	62.359	40.739	37.775	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.353	40.401	38.026	0.00	0.00
ATOM	6532	HB3	SER	X	434	63.078	40.590	38.580	0.00	0.00
ATOM	6533	OG	SER	X	434	62.109	42.062	37.447	0.00	0.00
ATOM	6534	HG	SER	X	434	61.765	42.559	38.192	0.00	0.00
ATOM	6535	C	SER	X	434	62.852	38.388	37.026	0.00	0.00
ATOM	6536	O	SER	X	434	63.908	38.011	37.446	0.00	0.00
ATOM	6537	N	TRP	X	435	61.818	37.650	37.230	0.00	0.00
ATOM	6538	H	TRP	X	435	60.972	37.980	36.786	0.00	0.00
ATOM	6539	CA	TRP	X	435	61.810	36.404	38.114	0.00	0.00
ATOM	6540	HA	TRP	X	435	62.315	36.745	39.018	0.00	0.00
ATOM	6541	CB	TRP	X	435	60.428	36.037	38.589	0.00	0.00
ATOM	6542	HB2	TRP	X	435	59.813	35.929	37.695	0.00	0.00
ATOM	6543	HB3	TRP	X	435	60.429	35.071	39.094	0.00	0.00
ATOM	6544	CG	TRP	X	435	59.818	37.057	39.532	0.00	0.00
ATOM	6545	CD1	TRP	X	435	59.165	38.205	39.135	0.00	0.00
ATOM	6546	HD1	TRP	X	435	59.102	38.555	38.115	0.00	0.00
ATOM	6547	NE1	TRP	X	435	58.566	38.835	40.234	0.00	0.00
ATOM	6548	HE1	TRP	X	435	57.945	39.629	40.174	0.00	0.00
ATOM	6549	CE2	TRP	X	435	58.834	38.180	41.417	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	58.369	38.390	42.696	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	57.678	39.200	42.877	0.00	0.00
ATOM	6552	CH2	TRP	X	435	58.901	37.555	43.731	0.00	0.00
ATOM	6553	HH2	TRP	X	435	58.641	37.773	44.757	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	59.664	36.445	43.390	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	60.010	35.824	44.204	0.00	0.00
ATOM	6556	CE3	TRP	X	435	60.022	36.198	42.019	0.00	0.00
ATOM	6557	HE3	TRP	X	435	60.607	35.338	41.727	0.00	0.00
ATOM	6558	CD2	TRP	X	435	59.571	37.031	40.975	0.00	0.00
ATOM	6559	C	TRP	X	435	62.526	35.226	37.411	0.00	0.00
ATOM	6560	O	TRP	X	435	62.316	35.050	36.170	0.00	0.00
ATOM	6561	N	PRO	X	436	63.093	34.263	38.200	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.133	34.075	39.680	0.00	0.00
ATOM	6563	HD2	PRO	X	436	62.120	34.279	40.024	0.00	0.00
ATOM	6564	HD3	PRO	X	436	63.757	34.813	40.184	0.00	0.00
ATOM	6565	CG	PRO	X	436	63.500	32.642	39.880	0.00	0.00
ATOM	6566	HG2	PRO	X	436	62.648	32.011	39.627	0.00	0.00
ATOM	6567	HG3	PRO	X	436	63.955	32.346	40.825	0.00	0.00
ATOM	6568	CB	PRO	X	436	64.571	32.478	38.801	0.00	0.00
ATOM	6569	HB2	PRO	X	436	64.773	31.432	38.570	0.00	0.00
ATOM	6570	HB3	PRO	X	436	65.499	32.910	39.176	0.00	0.00
ATOM	6571	CA	PRO	X	436	63.950	33.210	37.624	0.00	0.00
ATOM	6572	HA	PRO	X	436	64.725	33.729	37.059	0.00	0.00
ATOM	6573	C	PRO	X	436	63.138	32.243	36.753	0.00	0.00
ATOM	6574	O	PRO	X	436	61.940	31.944	36.900	0.00	0.00
ATOM	6575	N	LEU	X	437	63.901	31.542	35.885	0.00	0.00
ATOM	6576	H	LEU	X	437	64.903	31.664	35.907	0.00	0.00
ATOM	6577	CA	LEU	X	437	63.473	30.513	34.901	0.00	0.00
ATOM	6578	HA	LEU	X	437	62.845	30.995	34.152	0.00	0.00
ATOM	6579	CB	LEU	X	437	64.831	30.179	34.150	0.00	0.00
ATOM	6580	HB2	LEU	X	437	65.477	31.030	33.934	0.00	0.00
ATOM	6581	HB3	LEU	X	437	65.400	29.558	34.842	0.00	0.00
ATOM	6582	CG	LEU	X	437	64.731	29.458	32.790	0.00	0.00
ATOM	6583	HG	LEU	X	437	64.292	28.473	32.950	0.00	0.00
ATOM	6584	CD1	LEU	X	437	63.796	30.288	31.878	0.00	0.00
ATOM	6585	HD11	LEU	X	437	62.757	30.172	32.187	0.00	0.00
ATOM	6586	HD12	LEU	X	437	64.044	31.336	32.049	0.00	0.00
ATOM	6587	HD13	LEU	X	437	64.006	30.056	30.834	0.00	0.00

ATOM	6588	CD2	LEU	X	437	66.163	29.288	32.193	0.00	0.00
ATOM	6589	HD21	LEU	X	437	66.774	28.683	32.863	0.00	0.00
ATOM	6590	HD22	LEU	X	437	66.061	28.765	31.242	0.00	0.00
ATOM	6591	HD23	LEU	X	437	66.661	30.248	32.059	0.00	0.00
ATOM	6592	C	LEU	X	437	62.801	29.285	35.456	0.00	0.00
ATOM	6593	O	LEU	X	437	61.868	28.806	34.774	0.00	0.00
ATOM	6594	N	TRP	X	438	63.080	28.848	36.666	0.00	0.00
ATOM	6595	H	TRP	X	438	63.723	29.404	37.211	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.249	27.832	37.333	0.00	0.00
ATOM	6597	HA	TRP	X	438	62.179	27.053	36.574	0.00	0.00
ATOM	6598	CB	TRP	X	438	62.982	27.254	38.646	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.826	26.202	38.888	0.00	0.00
ATOM	6600	HB3	TRP	X	438	64.052	27.244	38.437	0.00	0.00
ATOM	6601	CG	TRP	X	438	62.753	27.989	39.925	0.00	0.00
ATOM	6602	CD1	TRP	X	438	63.631	28.812	40.560	0.00	0.00
ATOM	6603	HD1	TRP	X	438	64.653	29.013	40.276	0.00	0.00
ATOM	6604	NE1	TRP	X	438	63.091	29.222	41.752	0.00	0.00
ATOM	6605	HE1	TRP	X	438	63.490	29.782	42.492	0.00	0.00
ATOM	6606	CE2	TRP	X	438	61.766	28.809	41.881	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	60.744	29.113	42.806	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	60.955	29.687	43.696	0.00	0.00
ATOM	6609	CH2	TRP	X	438	59.492	28.521	42.692	0.00	0.00
ATOM	6610	HH2	TRP	X	438	58.749	28.916	43.369	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	59.261	27.643	41.595	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	58.326	27.105	41.542	0.00	0.00
ATOM	6613	CE3	TRP	X	438	60.319	27.267	40.781	0.00	0.00
ATOM	6614	HE3	TRP	X	438	60.194	26.500	40.032	0.00	0.00
ATOM	6615	CD2	TRP	X	438	61.570	27.967	40.736	0.00	0.00
ATOM	6616	C	TRP	X	438	60.706	28.213	37.645	0.00	0.00
ATOM	6617	O	TRP	X	438	59.909	27.317	37.760	0.00	0.00
ATOM	6618	N	MET	X	439	60.446	29.531	37.638	0.00	0.00
ATOM	6619	H	MET	X	439	61.221	30.170	37.531	0.00	0.00
ATOM	6620	CA	MET	X	439	59.118	30.120	37.736	0.00	0.00
ATOM	6621	HA	MET	X	439	58.441	29.377	38.156	0.00	0.00
ATOM	6622	CB	MET	X	439	59.110	31.323	38.585	0.00	0.00
ATOM	6623	HB2	MET	X	439	59.533	32.164	38.035	0.00	0.00
ATOM	6624	HB3	MET	X	439	58.086	31.528	38.896	0.00	0.00
ATOM	6625	CG	MET	X	439	59.797	31.099	39.927	0.00	0.00
ATOM	6626	HG2	MET	X	439	59.426	30.181	40.383	0.00	0.00
ATOM	6627	HG3	MET	X	439	60.835	30.884	39.670	0.00	0.00
ATOM	6628	SD	MET	X	439	59.831	32.499	41.056	0.00	0.00
ATOM	6629	CE	MET	X	439	58.128	32.716	41.671	0.00	0.00
ATOM	6630	HE1	MET	X	439	57.522	32.362	40.837	0.00	0.00
ATOM	6631	HE2	MET	X	439	58.013	32.065	42.538	0.00	0.00
ATOM	6632	HE3	MET	X	439	57.773	33.729	41.860	0.00	0.00
ATOM	6633	C	MET	X	439	58.546	30.594	36.421	0.00	0.00
ATOM	6634	O	MET	X	439	57.464	31.084	36.384	0.00	0.00
ATOM	6635	N	GLY	X	440	59.157	30.332	35.261	0.00	0.00
ATOM	6636	H	GLY	X	440	60.073	29.906	35.265	0.00	0.00
ATOM	6637	CA	GLY	X	440	58.587	30.764	33.938	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.356	30.808	33.210	0.00	0.00
ATOM	6639	HA3	GLY	X	440	57.950	29.915	33.697	0.00	0.00
ATOM	6640	C	GLY	X	440	57.801	32.024	33.911	0.00	0.00
ATOM	6641	O	GLY	X	440	58.447	33.041	33.838	0.00	0.00
ATOM	6642	N	VAL	X	441	56.491	31.949	33.836	0.00	0.00
ATOM	6643	H	VAL	X	441	55.999	31.070	33.906	0.00	0.00
ATOM	6644	CA	VAL	X	441	55.631	33.154	33.953	0.00	0.00
ATOM	6645	HA	VAL	X	441	56.217	34.069	34.036	0.00	0.00
ATOM	6646	CB	VAL	X	441	54.588	33.239	32.800	0.00	0.00
ATOM	6647	HB	VAL	X	441	53.983	32.332	32.784	0.00	0.00
ATOM	6648	CG1	VAL	X	441	53.720	34.558	32.934	0.00	0.00
ATOM	6649	HG11	VAL	X	441	52.961	34.353	33.690	0.00	0.00
ATOM	6650	HG12	VAL	X	441	54.375	35.403	33.148	0.00	0.00
ATOM	6651	HG13	VAL	X	441	53.123	34.614	32.024	0.00	0.00
ATOM	6652	CG2	VAL	X	441	55.391	33.375	31.490	0.00	0.00
ATOM	6653	HG21	VAL	X	441	55.904	34.321	31.316	0.00	0.00
ATOM	6654	HG22	VAL	X	441	56.119	32.590	31.290	0.00	0.00
ATOM	6655	HG23	VAL	X	441	54.696	33.444	30.653	0.00	0.00
ATOM	6656	C	VAL	X	441	54.847	33.008	35.245	0.00	0.00
ATOM	6657	O	VAL	X	441	53.860	32.226	35.327	0.00	0.00

ATOM	6658	N	PRO	X	442	55.202	33.773	36.284	0.00	0.00
ATOM	6659	CD	PRO	X	442	56.336	34.719	36.434	0.00	0.00
ATOM	6660	HD2	PRO	X	442	56.291	35.444	35.621	0.00	0.00
ATOM	6661	HD3	PRO	X	442	57.286	34.185	36.399	0.00	0.00
ATOM	6662	CG	PRO	X	442	56.094	35.391	37.773	0.00	0.00
ATOM	6663	HG2	PRO	X	442	55.344	36.174	37.667	0.00	0.00
ATOM	6664	HG3	PRO	X	442	57.023	35.714	38.242	0.00	0.00
ATOM	6665	CB	PRO	X	442	55.479	34.276	38.606	0.00	0.00
ATOM	6666	HB2	PRO	X	442	54.944	34.642	39.483	0.00	0.00
ATOM	6667	HB3	PRO	X	442	56.256	33.568	38.894	0.00	0.00
ATOM	6668	CA	PRO	X	442	54.582	33.612	37.577	0.00	0.00
ATOM	6669	HA	PRO	X	442	54.410	32.577	37.872	0.00	0.00
ATOM	6670	C	PRO	X	442	53.182	34.280	37.687	0.00	0.00
ATOM	6671	O	PRO	X	442	52.937	35.212	36.920	0.00	0.00
ATOM	6672	N	HIP	X	443	52.251	33.829	38.530	0.00	0.00
ATOM	6673	H	HIP	X	443	52.583	33.037	39.062	0.00	0.00
ATOM	6674	CA	HIP	X	443	50.857	34.318	38.787	0.00	0.00
ATOM	6675	HA	HIP	X	443	50.164	33.840	38.094	0.00	0.00
ATOM	6676	CB	HIP	X	443	50.517	33.812	40.207	0.00	0.00
ATOM	6677	HB2	HIP	X	443	50.245	32.757	40.241	0.00	0.00
ATOM	6678	HB3	HIP	X	443	51.455	33.816	40.762	0.00	0.00
ATOM	6679	CG	HIP	X	443	49.468	34.600	40.980	0.00	0.00
ATOM	6680	ND1	HIP	X	443	48.170	34.236	41.250	0.00	0.00
ATOM	6681	HD1	HIP	X	443	47.760	33.378	40.909	0.00	0.00
ATOM	6682	CE1	HIP	X	443	47.558	35.162	41.980	0.00	0.00
ATOM	6683	HE1	HIP	X	443	46.566	35.245	42.401	0.00	0.00
ATOM	6684	NE2	HIP	X	443	48.417	36.174	42.193	0.00	0.00
ATOM	6685	HE2	HIP	X	443	48.274	37.046	42.681	0.00	0.00
ATOM	6686	CD2	HIP	X	443	49.663	35.786	41.622	0.00	0.00
ATOM	6687	HD2	HIP	X	443	50.590	36.342	41.620	0.00	0.00
ATOM	6688	C	HIP	X	443	50.655	35.881	38.592	0.00	0.00
ATOM	6689	O	HIP	X	443	51.505	36.606	39.194	0.00	0.00
ATOM	6690	N	GLY	X	444	49.701	36.335	37.776	0.00	0.00
ATOM	6691	H	GLY	X	444	49.137	35.618	37.342	0.00	0.00
ATOM	6692	CA	GLY	X	444	49.333	37.759	37.599	0.00	0.00
ATOM	6693	HA2	GLY	X	444	48.356	37.693	37.050	0.00	0.00
ATOM	6694	HA3	GLY	X	444	49.231	38.126	38.616	0.00	0.00
ATOM	6695	C	GLY	X	444	50.250	38.691	36.797	0.00	0.00
ATOM	6696	O	GLY	X	444	49.929	39.855	36.602	0.00	0.00
ATOM	6697	N	TYR	X	445	51.375	38.179	36.342	0.00	0.00
ATOM	6698	H	TYR	X	445	51.478	37.177	36.421	0.00	0.00
ATOM	6699	CA	TYR	X	445	52.439	39.009	35.730	0.00	0.00
ATOM	6700	HA	TYR	X	445	52.320	39.936	36.292	0.00	0.00
ATOM	6701	CB	TYR	X	445	53.874	38.533	35.938	0.00	0.00
ATOM	6702	HB2	TYR	X	445	53.999	37.451	35.966	0.00	0.00
ATOM	6703	HB3	TYR	X	445	54.435	38.848	35.058	0.00	0.00
ATOM	6704	CG	TYR	X	445	54.623	39.120	37.112	0.00	0.00
ATOM	6705	CD1	TYR	X	445	55.370	40.265	36.928	0.00	0.00
ATOM	6706	HD1	TYR	X	445	55.738	40.669	35.996	0.00	0.00
ATOM	6707	CE1	TYR	X	445	55.915	40.876	38.028	0.00	0.00
ATOM	6708	HE1	TYR	X	445	56.589	41.701	37.850	0.00	0.00
ATOM	6709	CZ	TYR	X	445	55.603	40.498	39.360	0.00	0.00
ATOM	6710	OH	TYR	X	445	56.233	41.117	40.387	0.00	0.00
ATOM	6711	HH	TYR	X	445	56.736	41.855	40.037	0.00	0.00
ATOM	6712	CE2	TYR	X	445	54.837	39.315	39.533	0.00	0.00
ATOM	6713	HE2	TYR	X	445	54.845	38.945	40.548	0.00	0.00
ATOM	6714	CD2	TYR	X	445	54.414	38.578	38.372	0.00	0.00
ATOM	6715	HD2	TYR	X	445	53.951	37.609	38.483	0.00	0.00
ATOM	6716	C	TYR	X	445	52.056	39.339	34.234	0.00	0.00
ATOM	6717	O	TYR	X	445	52.656	40.163	33.595	0.00	0.00
ATOM	6718	N	GLU	X	446	50.920	38.785	33.716	0.00	0.00
ATOM	6719	H	GLU	X	446	50.497	38.004	34.197	0.00	0.00
ATOM	6720	CA	GLU	X	446	50.365	39.179	32.398	0.00	0.00
ATOM	6721	HA	GLU	X	446	51.216	39.188	31.717	0.00	0.00
ATOM	6722	CB	GLU	X	446	49.384	38.099	31.855	0.00	0.00
ATOM	6723	HB2	GLU	X	446	49.551	38.121	30.778	0.00	0.00
ATOM	6724	HB3	GLU	X	446	49.721	37.141	32.249	0.00	0.00
ATOM	6725	CG	GLU	X	446	47.840	38.207	31.995	0.00	0.00
ATOM	6726	HG2	GLU	X	446	47.431	39.058	31.450	0.00	0.00
ATOM	6727	HG3	GLU	X	446	47.590	37.291	31.459	0.00	0.00

ATOM	6728	CD	GLU	X	446	47.355	38.242	33.484	0.00	0.00
ATOM	6729	OE1	GLU	X	446	48.173	38.576	34.371	0.00	0.00
ATOM	6730	OE2	GLU	X	446	46.135	38.064	33.726	0.00	0.00
ATOM	6731	C	GLU	X	446	49.716	40.559	32.491	0.00	0.00
ATOM	6732	O	GLU	X	446	49.439	41.086	31.448	0.00	0.00
ATOM	6733	N	ILE	X	447	49.284	41.153	33.640	0.00	0.00
ATOM	6734	H	ILE	X	447	49.116	40.543	34.427	0.00	0.00
ATOM	6735	CA	ILE	X	447	48.500	42.419	33.665	0.00	0.00
ATOM	6736	HA	ILE	X	447	47.687	42.199	32.972	0.00	0.00
ATOM	6737	CB	ILE	X	447	47.948	42.812	35.004	0.00	0.00
ATOM	6738	HB	ILE	X	447	47.305	43.685	34.895	0.00	0.00
ATOM	6739	CG2	ILE	X	447	47.143	41.648	35.598	0.00	0.00
ATOM	6740	HG21	ILE	X	447	46.578	41.191	34.786	0.00	0.00
ATOM	6741	HG22	ILE	X	447	47.741	40.819	35.977	0.00	0.00
ATOM	6742	HG23	ILE	X	447	46.491	41.984	36.405	0.00	0.00
ATOM	6743	CG1	ILE	X	447	49.026	42.985	36.080	0.00	0.00
ATOM	6744	HG12	ILE	X	447	48.608	42.889	37.082	0.00	0.00
ATOM	6745	HG13	ILE	X	447	49.831	42.274	35.893	0.00	0.00
ATOM	6746	CD1	ILE	X	447	49.768	44.302	36.099	0.00	0.00
ATOM	6747	HD11	ILE	X	447	50.412	44.207	36.973	0.00	0.00
ATOM	6748	HD12	ILE	X	447	50.505	44.443	35.308	0.00	0.00
ATOM	6749	HD13	ILE	X	447	49.025	45.072	36.306	0.00	0.00
ATOM	6750	C	ILE	X	447	49.215	43.623	32.986	0.00	0.00
ATOM	6751	O	ILE	X	447	48.510	44.459	32.422	0.00	0.00
ATOM	6752	N	GLU	X	448	50.554	43.618	32.896	0.00	0.00
ATOM	6753	H	GLU	X	448	51.033	42.768	33.157	0.00	0.00
ATOM	6754	CA	GLU	X	448	51.269	44.674	32.175	0.00	0.00
ATOM	6755	HA	GLU	X	448	50.868	45.665	32.388	0.00	0.00
ATOM	6756	CB	GLU	X	448	52.767	44.671	32.498	0.00	0.00
ATOM	6757	HB2	GLU	X	448	53.274	45.596	32.224	0.00	0.00
ATOM	6758	HB3	GLU	X	448	52.911	44.447	33.555	0.00	0.00
ATOM	6759	CG	GLU	X	448	53.520	43.557	31.767	0.00	0.00
ATOM	6760	HG2	GLU	X	448	52.933	42.651	31.913	0.00	0.00
ATOM	6761	HG3	GLU	X	448	53.606	43.784	30.704	0.00	0.00
ATOM	6762	CD	GLU	X	448	54.865	43.287	32.310	0.00	0.00
ATOM	6763	OE1	GLU	X	448	55.733	42.929	31.473	0.00	0.00
ATOM	6764	OE2	GLU	X	448	55.064	43.382	33.525	0.00	0.00
ATOM	6765	C	GLU	X	448	51.016	44.688	30.677	0.00	0.00
ATOM	6766	O	GLU	X	448	51.318	45.654	30.041	0.00	0.00
ATOM	6767	N	PHE	X	449	50.479	43.614	30.094	0.00	0.00
ATOM	6768	H	PHE	X	449	50.057	42.903	30.673	0.00	0.00
ATOM	6769	CA	PHE	X	449	49.953	43.621	28.651	0.00	0.00
ATOM	6770	HA	PHE	X	449	50.448	44.375	28.039	0.00	0.00
ATOM	6771	CB	PHE	X	449	50.265	42.219	28.027	0.00	0.00
ATOM	6772	HB2	PHE	X	449	49.943	41.472	28.753	0.00	0.00
ATOM	6773	HB3	PHE	X	449	49.575	42.115	27.190	0.00	0.00
ATOM	6774	CG	PHE	X	449	51.726	42.005	27.603	0.00	0.00
ATOM	6775	CD1	PHE	X	449	52.679	41.858	28.607	0.00	0.00
ATOM	6776	HD1	PHE	X	449	52.426	41.703	29.645	0.00	0.00
ATOM	6777	CE1	PHE	X	449	54.112	41.848	28.233	0.00	0.00
ATOM	6778	HE1	PHE	X	449	54.944	41.653	28.894	0.00	0.00
ATOM	6779	CZ	PHE	X	449	54.416	41.896	26.823	0.00	0.00
ATOM	6780	HZ	PHE	X	449	55.452	41.932	26.521	0.00	0.00
ATOM	6781	CE2	PHE	X	449	53.419	41.930	25.883	0.00	0.00
ATOM	6782	HE2	PHE	X	449	53.665	41.956	24.832	0.00	0.00
ATOM	6783	CD2	PHE	X	449	52.076	41.966	26.288	0.00	0.00
ATOM	6784	HD2	PHE	X	449	51.278	42.058	25.567	0.00	0.00
ATOM	6785	C	PHE	X	449	48.429	43.929	28.634	0.00	0.00
ATOM	6786	O	PHE	X	449	47.969	44.189	27.557	0.00	0.00
ATOM	6787	N	ILE	X	450	47.732	43.994	29.772	0.00	0.00
ATOM	6788	H	ILE	X	450	48.210	43.777	30.635	0.00	0.00
ATOM	6789	CA	ILE	X	450	46.336	44.612	29.813	0.00	0.00
ATOM	6790	HA	ILE	X	450	45.872	44.499	28.833	0.00	0.00
ATOM	6791	CB	ILE	X	450	45.536	43.895	30.905	0.00	0.00
ATOM	6792	HB	ILE	X	450	45.955	44.266	31.840	0.00	0.00
ATOM	6793	CG2	ILE	X	450	44.024	44.282	30.763	0.00	0.00
ATOM	6794	HG21	ILE	X	450	43.470	43.570	31.375	0.00	0.00
ATOM	6795	HG22	ILE	X	450	43.726	45.240	31.190	0.00	0.00
ATOM	6796	HG23	ILE	X	450	43.698	44.254	29.723	0.00	0.00
ATOM	6797	CG1	ILE	X	450	45.626	42.383	30.746	0.00	0.00

ATOM	6798	HG12	ILE	X	450	46.604	42.069	31.112	0.00	0.00
ATOM	6799	HG13	ILE	X	450	44.991	42.003	31.546	0.00	0.00
ATOM	6800	CD1	ILE	X	450	45.369	41.751	29.389	0.00	0.00
ATOM	6801	HD11	ILE	X	450	44.329	41.863	29.081	0.00	0.00
ATOM	6802	HD12	ILE	X	450	45.872	42.330	28.615	0.00	0.00
ATOM	6803	HD13	ILE	X	450	45.742	40.728	29.350	0.00	0.00
ATOM	6804	C	ILE	X	450	46.357	46.166	30.032	0.00	0.00
ATOM	6805	O	ILE	X	450	45.642	46.978	29.443	0.00	0.00
ATOM	6806	N	PHE	X	451	47.347	46.625	30.874	0.00	0.00
ATOM	6807	H	PHE	X	451	47.781	45.961	31.499	0.00	0.00
ATOM	6808	CA	PHE	X	451	47.812	48.056	31.091	0.00	0.00
ATOM	6809	HA	PHE	X	451	46.882	48.625	31.066	0.00	0.00
ATOM	6810	CB	PHE	X	451	48.536	48.284	32.464	0.00	0.00
ATOM	6811	HB2	PHE	X	451	49.319	47.526	32.507	0.00	0.00
ATOM	6812	HB3	PHE	X	451	49.177	49.152	32.619	0.00	0.00
ATOM	6813	CG	PHE	X	451	47.554	48.198	33.558	0.00	0.00
ATOM	6814	CD1	PHE	X	451	47.276	46.940	34.187	0.00	0.00
ATOM	6815	HD1	PHE	X	451	47.784	46.038	33.878	0.00	0.00
ATOM	6816	CE1	PHE	X	451	46.463	46.878	35.328	0.00	0.00
ATOM	6817	HE1	PHE	X	451	46.352	45.897	35.766	0.00	0.00
ATOM	6818	CZ	PHE	X	451	45.767	48.021	35.831	0.00	0.00
ATOM	6819	HZ	PHE	X	451	45.100	48.009	36.680	0.00	0.00
ATOM	6820	CE2	PHE	X	451	45.981	49.256	35.189	0.00	0.00
ATOM	6821	HE2	PHE	X	451	45.458	50.134	35.537	0.00	0.00
ATOM	6822	CD2	PHE	X	451	46.926	49.333	34.113	0.00	0.00
ATOM	6823	HD2	PHE	X	451	47.114	50.307	33.687	0.00	0.00
ATOM	6824	C	PHE	X	451	48.588	48.651	29.915	0.00	0.00
ATOM	6825	O	PHE	X	451	48.740	49.809	29.840	0.00	0.00
ATOM	6826	N	GLY	X	452	49.011	47.791	28.971	0.00	0.00
ATOM	6827	H	GLY	X	452	48.919	46.804	29.165	0.00	0.00
ATOM	6828	CA	GLY	X	452	49.726	48.088	27.688	0.00	0.00
ATOM	6829	HA2	GLY	X	452	50.000	47.177	27.169	0.00	0.00
ATOM	6830	HA3	GLY	X	452	49.092	48.855	27.169	0.00	0.00
ATOM	6831	C	GLY	X	452	51.030	48.746	27.970	0.00	0.00
ATOM	6832	O	GLY	X	452	51.314	49.754	27.280	0.00	0.00
ATOM	6833	N	ILE	X	453	51.770	48.362	29.018	0.00	0.00
ATOM	6834	H	ILE	X	453	51.415	47.660	29.651	0.00	0.00
ATOM	6835	CA	ILE	X	453	53.117	48.883	29.416	0.00	0.00
ATOM	6836	HA	ILE	X	453	53.130	49.958	29.599	0.00	0.00
ATOM	6837	CB	ILE	X	453	53.742	48.174	30.671	0.00	0.00
ATOM	6838	HB	ILE	X	453	53.743	47.098	30.498	0.00	0.00
ATOM	6839	CG2	ILE	X	453	55.155	48.626	30.954	0.00	0.00
ATOM	6840	HG21	ILE	X	453	55.300	49.690	30.770	0.00	0.00
ATOM	6841	HG22	ILE	X	453	55.510	48.355	31.948	0.00	0.00
ATOM	6842	HG23	ILE	X	453	55.819	47.914	30.464	0.00	0.00
ATOM	6843	CG1	ILE	X	453	52.932	48.394	31.925	0.00	0.00
ATOM	6844	HG12	ILE	X	453	51.996	47.859	31.762	0.00	0.00
ATOM	6845	HG13	ILE	X	453	53.432	48.008	32.813	0.00	0.00
ATOM	6846	CD1	ILE	X	453	52.768	49.921	32.239	0.00	0.00
ATOM	6847	HD11	ILE	X	453	53.670	50.515	32.093	0.00	0.00
ATOM	6848	HD12	ILE	X	453	52.002	50.443	31.666	0.00	0.00
ATOM	6849	HD13	ILE	X	453	52.312	49.938	33.229	0.00	0.00
ATOM	6850	C	ILE	X	453	54.021	48.774	28.212	0.00	0.00
ATOM	6851	O	ILE	X	453	54.845	49.679	28.013	0.00	0.00
ATOM	6852	N	PRO	X	454	53.832	47.749	27.242	0.00	0.00
ATOM	6853	CD	PRO	X	454	53.367	46.386	27.594	0.00	0.00
ATOM	6854	HD2	PRO	X	454	52.284	46.330	27.702	0.00	0.00
ATOM	6855	HD3	PRO	X	454	53.754	45.997	28.536	0.00	0.00
ATOM	6856	CG	PRO	X	454	53.955	45.557	26.470	0.00	0.00
ATOM	6857	HG2	PRO	X	454	53.390	44.658	26.221	0.00	0.00
ATOM	6858	HG3	PRO	X	454	54.910	45.209	26.863	0.00	0.00
ATOM	6859	CB	PRO	X	454	54.123	46.465	25.240	0.00	0.00
ATOM	6860	HB2	PRO	X	454	53.162	46.647	24.760	0.00	0.00
ATOM	6861	HB3	PRO	X	454	54.867	45.998	24.593	0.00	0.00
ATOM	6862	CA	PRO	X	454	54.553	47.759	25.953	0.00	0.00
ATOM	6863	HA	PRO	X	454	55.625	47.799	26.148	0.00	0.00
ATOM	6864	C	PRO	X	454	54.315	48.920	24.924	0.00	0.00
ATOM	6865	O	PRO	X	454	55.047	48.915	23.901	0.00	0.00
ATOM	6866	N	LEU	X	455	53.413	49.920	25.161	0.00	0.00
ATOM	6867	H	LEU	X	455	52.873	49.716	25.990	0.00	0.00

ATOM	6868	CA	LEU	X	455	53.419	51.288	24.656	0.00	0.00
ATOM	6869	HA	LEU	X	455	53.647	51.313	23.590	0.00	0.00
ATOM	6870	CB	LEU	X	455	52.016	51.773	24.763	0.00	0.00
ATOM	6871	HB2	LEU	X	455	51.640	51.647	25.778	0.00	0.00
ATOM	6872	HB3	LEU	X	455	51.994	52.859	24.671	0.00	0.00
ATOM	6873	CG	LEU	X	455	51.015	51.119	23.724	0.00	0.00
ATOM	6874	HG	LEU	X	455	51.291	51.322	22.689	0.00	0.00
ATOM	6875	CD1	LEU	X	455	50.715	49.602	24.021	0.00	0.00
ATOM	6876	HD11	LEU	X	455	49.831	49.300	23.459	0.00	0.00
ATOM	6877	HD12	LEU	X	455	51.588	48.981	23.824	0.00	0.00
ATOM	6878	HD13	LEU	X	455	50.380	49.553	25.057	0.00	0.00
ATOM	6879	CD2	LEU	X	455	49.669	51.922	23.754	0.00	0.00
ATOM	6880	HD21	LEU	X	455	49.206	51.906	24.741	0.00	0.00
ATOM	6881	HD22	LEU	X	455	49.896	52.936	23.426	0.00	0.00
ATOM	6882	HD23	LEU	X	455	49.062	51.562	22.924	0.00	0.00
ATOM	6883	C	LEU	X	455	54.457	52.279	25.174	0.00	0.00
ATOM	6884	O	LEU	X	455	54.712	53.234	24.453	0.00	0.00
ATOM	6885	N	ASP	X	456	55.079	52.040	26.310	0.00	0.00
ATOM	6886	H	ASP	X	456	54.740	51.275	26.875	0.00	0.00
ATOM	6887	CA	ASP	X	456	55.958	52.994	27.001	0.00	0.00
ATOM	6888	HA	ASP	X	456	55.346	53.893	27.072	0.00	0.00
ATOM	6889	CB	ASP	X	456	56.102	52.649	28.515	0.00	0.00
ATOM	6890	HB2	ASP	X	456	55.140	52.532	29.014	0.00	0.00
ATOM	6891	HB3	ASP	X	456	56.601	51.684	28.606	0.00	0.00
ATOM	6892	CG	ASP	X	456	56.877	53.775	29.124	0.00	0.00
ATOM	6893	OD1	ASP	X	456	57.557	53.487	30.103	0.00	0.00
ATOM	6894	OD2	ASP	X	456	56.770	54.937	28.625	0.00	0.00
ATOM	6895	C	ASP	X	456	57.299	53.288	26.303	0.00	0.00
ATOM	6896	O	ASP	X	456	58.110	52.368	26.304	0.00	0.00
ATOM	6897	N	PRO	X	457	57.581	54.548	25.857	0.00	0.00
ATOM	6898	CD	PRO	X	457	56.713	55.667	25.543	0.00	0.00
ATOM	6899	HD2	PRO	X	457	56.067	55.958	26.372	0.00	0.00
ATOM	6900	HD3	PRO	X	457	56.049	55.449	24.707	0.00	0.00
ATOM	6901	CG	PRO	X	457	57.586	56.907	25.276	0.00	0.00
ATOM	6902	HG2	PRO	X	457	57.889	57.231	26.272	0.00	0.00
ATOM	6903	HG3	PRO	X	457	57.103	57.606	24.593	0.00	0.00
ATOM	6904	CB	PRO	X	457	58.763	56.291	24.529	0.00	0.00
ATOM	6905	HB2	PRO	X	457	59.561	57.033	24.536	0.00	0.00
ATOM	6906	HB3	PRO	X	457	58.564	55.991	23.500	0.00	0.00
ATOM	6907	CA	PRO	X	457	58.895	54.918	25.309	0.00	0.00
ATOM	6908	HA	PRO	X	457	59.315	54.199	24.606	0.00	0.00
ATOM	6909	C	PRO	X	457	59.910	55.036	26.395	0.00	0.00
ATOM	6910	O	PRO	X	457	61.073	55.160	25.981	0.00	0.00
ATOM	6911	N	SER	X	458	59.669	54.875	27.718	0.00	0.00
ATOM	6912	H	SER	X	458	58.688	54.892	27.956	0.00	0.00
ATOM	6913	CA	SER	X	458	60.775	54.909	28.780	0.00	0.00
ATOM	6914	HA	SER	X	458	61.586	55.470	28.315	0.00	0.00
ATOM	6915	CB	SER	X	458	60.269	55.545	30.071	0.00	0.00
ATOM	6916	HB2	SER	X	458	59.351	55.047	30.381	0.00	0.00
ATOM	6917	HB3	SER	X	458	60.971	55.379	30.888	0.00	0.00
ATOM	6918	OG	SER	X	458	60.159	56.952	29.776	0.00	0.00
ATOM	6919	HG	SER	X	458	59.252	57.025	29.468	0.00	0.00
ATOM	6920	C	SER	X	458	61.350	53.534	29.006	0.00	0.00
ATOM	6921	O	SER	X	458	62.492	53.486	29.405	0.00	0.00
ATOM	6922	N	ARG	X	459	60.658	52.412	28.622	0.00	0.00
ATOM	6923	H	ARG	X	459	59.667	52.566	28.507	0.00	0.00
ATOM	6924	CA	ARG	X	459	61.143	51.013	28.611	0.00	0.00
ATOM	6925	HA	ARG	X	459	62.168	50.997	28.982	0.00	0.00
ATOM	6926	CB	ARG	X	459	60.208	50.120	29.517	0.00	0.00
ATOM	6927	HB2	ARG	X	459	59.155	50.366	29.386	0.00	0.00
ATOM	6928	HB3	ARG	X	459	60.337	49.055	29.321	0.00	0.00
ATOM	6929	CG	ARG	X	459	60.543	50.399	30.937	0.00	0.00
ATOM	6930	HG2	ARG	X	459	61.592	50.130	31.061	0.00	0.00
ATOM	6931	HG3	ARG	X	459	60.397	51.446	31.205	0.00	0.00
ATOM	6932	CD	ARG	X	459	59.670	49.597	31.869	0.00	0.00
ATOM	6933	HD2	ARG	X	459	59.941	49.841	32.896	0.00	0.00
ATOM	6934	HD3	ARG	X	459	58.634	49.907	31.727	0.00	0.00
ATOM	6935	NE	ARG	X	459	59.732	48.186	31.522	0.00	0.00
ATOM	6936	HE	ARG	X	459	60.322	47.917	30.748	0.00	0.00
ATOM	6937	CZ	ARG	X	459	58.968	47.272	31.986	0.00	0.00

ATOM	6938	NH1	ARG	X	459	57.937	47.597	32.782	0.00	0.00
ATOM	6939	HH11	ARG	X	459	57.738	48.548	33.057	0.00	0.00
ATOM	6940	HH12	ARG	X	459	57.147	47.012	33.014	0.00	0.00
ATOM	6941	NH2	ARG	X	459	59.069	46.025	31.561	0.00	0.00
ATOM	6942	HH21	ARG	X	459	59.753	45.844	30.841	0.00	0.00
ATOM	6943	HH22	ARG	X	459	58.479	45.242	31.805	0.00	0.00
ATOM	6944	C	ARG	X	459	61.157	50.514	27.195	0.00	0.00
ATOM	6945	O	ARG	X	459	61.206	51.374	26.281	0.00	0.00
ATOM	6946	N	ASN	X	460	61.171	49.218	26.899	0.00	0.00
ATOM	6947	H	ASN	X	460	61.225	48.567	27.669	0.00	0.00
ATOM	6948	CA	ASN	X	460	61.265	48.738	25.566	0.00	0.00
ATOM	6949	HA	ASN	X	460	60.530	49.258	24.952	0.00	0.00
ATOM	6950	CB	ASN	X	460	62.676	49.024	25.043	0.00	0.00
ATOM	6951	HB2	ASN	X	460	63.042	50.046	25.139	0.00	0.00
ATOM	6952	HB3	ASN	X	460	63.317	48.549	25.786	0.00	0.00
ATOM	6953	CG	ASN	X	460	62.929	48.763	23.540	0.00	0.00
ATOM	6954	OD1	ASN	X	460	62.409	49.494	22.671	0.00	0.00
ATOM	6955	ND2	ASN	X	460	63.781	47.808	23.267	0.00	0.00
ATOM	6956	HD21	ASN	X	460	63.910	47.492	22.317	0.00	0.00
ATOM	6957	HD22	ASN	X	460	63.908	47.181	24.048	0.00	0.00
ATOM	6958	C	ASN	X	460	60.866	47.262	25.447	0.00	0.00
ATOM	6959	O	ASN	X	460	61.347	46.452	26.249	0.00	0.00
ATOM	6960	N	TYR	X	461	59.854	46.915	24.613	0.00	0.00
ATOM	6961	H	TYR	X	461	59.579	47.627	23.952	0.00	0.00
ATOM	6962	CA	TYR	X	461	59.615	45.459	24.263	0.00	0.00
ATOM	6963	HA	TYR	X	461	60.287	44.768	24.774	0.00	0.00
ATOM	6964	CB	TYR	X	461	58.193	45.227	24.746	0.00	0.00
ATOM	6965	HB2	TYR	X	461	57.552	45.982	24.290	0.00	0.00
ATOM	6966	HB3	TYR	X	461	57.957	44.244	24.340	0.00	0.00
ATOM	6967	CG	TYR	X	461	57.935	45.164	26.261	0.00	0.00
ATOM	6968	CD1	TYR	X	461	57.713	46.378	27.023	0.00	0.00
ATOM	6969	HD1	TYR	X	461	57.764	47.331	26.516	0.00	0.00
ATOM	6970	CE1	TYR	X	461	57.324	46.320	28.375	0.00	0.00
ATOM	6971	HE1	TYR	X	461	57.278	47.228	28.958	0.00	0.00
ATOM	6972	CZ	TYR	X	461	56.951	45.143	28.938	0.00	0.00
ATOM	6973	OH	TYR	X	461	56.436	45.209	30.205	0.00	0.00
ATOM	6974	HH	TYR	X	461	56.305	44.300	30.487	0.00	0.00
ATOM	6975	CE2	TYR	X	461	57.038	43.952	28.162	0.00	0.00
ATOM	6976	HE2	TYR	X	461	56.887	42.986	28.622	0.00	0.00
ATOM	6977	CD2	TYR	X	461	57.650	43.948	26.862	0.00	0.00
ATOM	6978	HD2	TYR	X	461	57.690	43.027	26.300	0.00	0.00
ATOM	6979	C	TYR	X	461	59.825	45.187	22.762	0.00	0.00
ATOM	6980	O	TYR	X	461	60.222	46.078	22.020	0.00	0.00
ATOM	6981	N	THR	X	462	59.488	44.001	22.260	0.00	0.00
ATOM	6982	H	THR	X	462	59.161	43.340	22.950	0.00	0.00
ATOM	6983	CA	THR	X	462	59.463	43.801	20.799	0.00	0.00
ATOM	6984	HA	THR	X	462	60.351	44.205	20.313	0.00	0.00
ATOM	6985	CB	THR	X	462	59.428	42.303	20.376	0.00	0.00
ATOM	6986	HB	THR	X	462	59.323	42.281	19.291	0.00	0.00
ATOM	6987	CG2	THR	X	462	60.714	41.596	20.957	0.00	0.00
ATOM	6988	HG21	THR	X	462	60.761	41.332	22.014	0.00	0.00
ATOM	6989	HG22	THR	X	462	60.783	40.659	20.403	0.00	0.00
ATOM	6990	HG23	THR	X	462	61.594	42.218	20.791	0.00	0.00
ATOM	6991	OG1	THR	X	462	58.297	41.648	20.892	0.00	0.00
ATOM	6992	HG1	THR	X	462	58.350	41.701	21.849	0.00	0.00
ATOM	6993	C	THR	X	462	58.242	44.469	20.228	0.00	0.00
ATOM	6994	O	THR	X	462	57.375	44.836	20.979	0.00	0.00
ATOM	6995	N	ALA	X	463	58.304	44.720	18.927	0.00	0.00
ATOM	6996	H	ALA	X	463	59.122	44.328	18.483	0.00	0.00
ATOM	6997	CA	ALA	X	463	57.278	45.264	18.089	0.00	0.00
ATOM	6998	HA	ALA	X	463	56.996	46.211	18.550	0.00	0.00
ATOM	6999	CB	ALA	X	463	57.818	45.479	16.637	0.00	0.00
ATOM	7000	HB1	ALA	X	463	57.139	45.961	15.932	0.00	0.00
ATOM	7001	HB2	ALA	X	463	58.733	46.062	16.740	0.00	0.00
ATOM	7002	HB3	ALA	X	463	58.204	44.557	16.204	0.00	0.00
ATOM	7003	C	ALA	X	463	55.995	44.375	18.128	0.00	0.00
ATOM	7004	O	ALA	X	463	54.911	44.920	18.291	0.00	0.00
ATOM	7005	N	GLU	X	464	56.178	43.069	18.014	0.00	0.00
ATOM	7006	H	GLU	X	464	57.049	42.683	17.679	0.00	0.00
ATOM	7007	CA	GLU	X	464	55.073	42.214	18.097	0.00	0.00

ATOM	7008	HA	GLU	X	464	54.326	42.690	17.462	0.00	0.00
ATOM	7009	CB	GLU	X	464	55.298	40.945	17.376	0.00	0.00
ATOM	7010	HB2	GLU	X	464	54.344	40.449	17.195	0.00	0.00
ATOM	7011	HB3	GLU	X	464	55.867	41.004	16.449	0.00	0.00
ATOM	7012	CG	GLU	X	464	56.201	40.047	18.198	0.00	0.00
ATOM	7013	HG2	GLU	X	464	57.134	40.589	18.350	0.00	0.00
ATOM	7014	HG3	GLU	X	464	55.742	39.755	19.143	0.00	0.00
ATOM	7015	CD	GLU	X	464	56.501	38.712	17.539	0.00	0.00
ATOM	7016	OE1	GLU	X	464	57.613	38.278	17.938	0.00	0.00
ATOM	7017	OE2	GLU	X	464	55.738	38.196	16.647	0.00	0.00
ATOM	7018	C	GLU	X	464	54.457	42.104	19.490	0.00	0.00
ATOM	7019	O	GLU	X	464	53.312	41.635	19.639	0.00	0.00
ATOM	7020	N	GLU	X	465	55.211	42.412	20.566	0.00	0.00
ATOM	7021	H	GLU	X	465	56.178	42.628	20.370	0.00	0.00
ATOM	7022	CA	GLU	X	465	54.695	42.649	21.961	0.00	0.00
ATOM	7023	HA	GLU	X	465	54.113	41.755	22.187	0.00	0.00
ATOM	7024	CB	GLU	X	465	55.869	42.726	23.002	0.00	0.00
ATOM	7025	HB2	GLU	X	465	56.638	43.287	22.470	0.00	0.00
ATOM	7026	HB3	GLU	X	465	55.495	43.130	23.943	0.00	0.00
ATOM	7027	CG	GLU	X	465	56.313	41.276	23.409	0.00	0.00
ATOM	7028	HG2	GLU	X	465	55.635	40.873	24.162	0.00	0.00
ATOM	7029	HG3	GLU	X	465	56.229	40.610	22.550	0.00	0.00
ATOM	7030	CD	GLU	X	465	57.710	41.130	23.990	0.00	0.00
ATOM	7031	OE1	GLU	X	465	58.658	41.794	23.588	0.00	0.00
ATOM	7032	OE2	GLU	X	465	58.003	40.242	24.738	0.00	0.00
ATOM	7033	C	GLU	X	465	53.839	43.908	22.121	0.00	0.00
ATOM	7034	O	GLU	X	465	52.845	43.841	22.826	0.00	0.00
ATOM	7035	N	LYS	X	466	54.145	45.028	21.501	0.00	0.00
ATOM	7036	H	LYS	X	466	54.888	45.091	20.820	0.00	0.00
ATOM	7037	CA	LYS	X	466	53.221	46.187	21.604	0.00	0.00
ATOM	7038	HA	LYS	X	466	52.872	46.256	22.635	0.00	0.00
ATOM	7039	CB	LYS	X	466	53.996	47.382	21.101	0.00	0.00
ATOM	7040	HB2	LYS	X	466	54.934	47.463	21.649	0.00	0.00
ATOM	7041	HB3	LYS	X	466	54.170	47.143	20.052	0.00	0.00
ATOM	7042	CG	LYS	X	466	53.160	48.650	21.133	0.00	0.00
ATOM	7043	HG2	LYS	X	466	52.473	48.474	20.305	0.00	0.00
ATOM	7044	HG3	LYS	X	466	52.539	48.677	22.028	0.00	0.00
ATOM	7045	CD	LYS	X	466	54.003	49.888	20.987	0.00	0.00
ATOM	7046	HD2	LYS	X	466	53.393	50.753	21.247	0.00	0.00
ATOM	7047	HD3	LYS	X	466	54.837	49.799	21.683	0.00	0.00
ATOM	7048	CE	LYS	X	466	54.636	50.013	19.616	0.00	0.00
ATOM	7049	HE2	LYS	X	466	55.296	49.146	19.653	0.00	0.00
ATOM	7050	HE3	LYS	X	466	53.893	50.094	18.822	0.00	0.00
ATOM	7051	NZ	LYS	X	466	55.432	51.254	19.660	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	54.862	52.084	19.737	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	56.082	51.340	20.428	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	56.087	51.344	18.896	0.00	0.00
ATOM	7055	C	LYS	X	466	51.980	45.921	20.767	0.00	0.00
ATOM	7056	O	LYS	X	466	50.892	46.317	21.154	0.00	0.00
ATOM	7057	N	ILE	X	467	52.017	45.150	19.683	0.00	0.00
ATOM	7058	H	ILE	X	467	52.920	44.871	19.326	0.00	0.00
ATOM	7059	CA	ILE	X	467	50.799	44.662	19.051	0.00	0.00
ATOM	7060	HA	ILE	X	467	50.170	45.530	18.853	0.00	0.00
ATOM	7061	CB	ILE	X	467	51.188	43.894	17.663	0.00	0.00
ATOM	7062	HB	ILE	X	467	51.914	43.085	17.755	0.00	0.00
ATOM	7063	CG2	ILE	X	467	49.884	43.437	16.943	0.00	0.00
ATOM	7064	HG21	ILE	X	467	49.249	44.218	16.525	0.00	0.00
ATOM	7065	HG22	ILE	X	467	50.238	43.055	15.985	0.00	0.00
ATOM	7066	HG23	ILE	X	467	49.270	42.662	17.402	0.00	0.00
ATOM	7067	CG1	ILE	X	467	51.836	44.891	16.687	0.00	0.00
ATOM	7068	HG12	ILE	X	467	52.715	45.293	17.191	0.00	0.00
ATOM	7069	HG13	ILE	X	467	52.297	44.284	15.908	0.00	0.00
ATOM	7070	CD1	ILE	X	467	51.117	46.212	16.237	0.00	0.00
ATOM	7071	HD11	ILE	X	467	51.733	46.903	15.662	0.00	0.00
ATOM	7072	HD12	ILE	X	467	50.315	45.894	15.570	0.00	0.00
ATOM	7073	HD13	ILE	X	467	50.497	46.605	17.043	0.00	0.00
ATOM	7074	C	ILE	X	467	49.985	43.729	19.956	0.00	0.00
ATOM	7075	O	ILE	X	467	48.784	43.748	19.870	0.00	0.00
ATOM	7076	N	PHE	X	468	50.639	42.803	20.679	0.00	0.00
ATOM	7077	H	PHE	X	468	51.634	42.736	20.516	0.00	0.00

ATOM	7078	CA	PHE	X	468	50.009	41.830	21.457	0.00	0.00
ATOM	7079	HA	PHE	X	468	49.215	41.322	20.911	0.00	0.00
ATOM	7080	CB	PHE	X	468	50.933	40.741	21.883	0.00	0.00
ATOM	7081	HB2	PHE	X	468	51.259	40.216	20.985	0.00	0.00
ATOM	7082	HB3	PHE	X	468	51.757	41.279	22.351	0.00	0.00
ATOM	7083	CG	PHE	X	468	50.381	39.715	22.858	0.00	0.00
ATOM	7084	CD1	PHE	X	468	49.097	39.133	22.653	0.00	0.00
ATOM	7085	HD1	PHE	X	468	48.420	39.436	21.868	0.00	0.00
ATOM	7086	CE1	PHE	X	468	48.688	37.988	23.372	0.00	0.00
ATOM	7087	HE1	PHE	X	468	47.734	37.513	23.197	0.00	0.00
ATOM	7088	CZ	PHE	X	468	49.513	37.558	24.440	0.00	0.00
ATOM	7089	HZ	PHE	X	468	49.146	36.802	25.117	0.00	0.00
ATOM	7090	CE2	PHE	X	468	50.812	38.140	24.705	0.00	0.00
ATOM	7091	HE2	PHE	X	468	51.582	37.706	25.326	0.00	0.00
ATOM	7092	CD2	PHE	X	468	51.208	39.226	23.861	0.00	0.00
ATOM	7093	HD2	PHE	X	468	52.189	39.667	23.965	0.00	0.00
ATOM	7094	C	PHE	X	468	49.317	42.479	22.649	0.00	0.00
ATOM	7095	O	PHE	X	468	48.202	42.206	22.863	0.00	0.00
ATOM	7096	N	ALA	X	469	49.957	43.451	23.364	0.00	0.00
ATOM	7097	H	ALA	X	469	50.952	43.557	23.226	0.00	0.00
ATOM	7098	CA	ALA	X	469	49.332	44.275	24.333	0.00	0.00
ATOM	7099	HA	ALA	X	469	49.204	43.605	25.184	0.00	0.00
ATOM	7100	CB	ALA	X	469	50.432	45.274	24.759	0.00	0.00
ATOM	7101	HB1	ALA	X	469	51.125	44.700	25.373	0.00	0.00
ATOM	7102	HB2	ALA	X	469	50.998	45.663	23.912	0.00	0.00
ATOM	7103	HB3	ALA	X	469	50.055	46.138	25.305	0.00	0.00
ATOM	7104	C	ALA	X	469	48.115	44.952	23.731	0.00	0.00
ATOM	7105	O	ALA	X	469	47.067	45.009	24.345	0.00	0.00
ATOM	7106	N	GLN	X	470	48.230	45.513	22.505	0.00	0.00
ATOM	7107	H	GLN	X	470	49.124	45.707	22.077	0.00	0.00
ATOM	7108	CA	GLN	X	470	47.079	46.199	21.865	0.00	0.00
ATOM	7109	HA	GLN	X	470	46.641	46.986	22.479	0.00	0.00
ATOM	7110	CB	GLN	X	470	47.660	47.019	20.684	0.00	0.00
ATOM	7111	HB2	GLN	X	470	48.232	46.384	20.009	0.00	0.00
ATOM	7112	HB3	GLN	X	470	46.857	47.267	19.990	0.00	0.00
ATOM	7113	CG	GLN	X	470	48.470	48.321	21.050	0.00	0.00
ATOM	7114	HG2	GLN	X	470	47.803	49.079	21.459	0.00	0.00
ATOM	7115	HG3	GLN	X	470	49.298	48.092	21.722	0.00	0.00
ATOM	7116	CD	GLN	X	470	49.178	48.958	19.874	0.00	0.00
ATOM	7117	OE1	GLN	X	470	50.177	48.561	19.313	0.00	0.00
ATOM	7118	NE2	GLN	X	470	48.534	50.001	19.350	0.00	0.00
ATOM	7119	HE21	GLN	X	470	48.896	50.345	18.471	0.00	0.00
ATOM	7120	HE22	GLN	X	470	47.622	50.259	19.699	0.00	0.00
ATOM	7121	C	GLN	X	470	45.953	45.257	21.448	0.00	0.00
ATOM	7122	O	GLN	X	470	44.793	45.666	21.675	0.00	0.00
ATOM	7123	N	ARG	X	471	46.241	43.986	21.110	0.00	0.00
ATOM	7124	H	ARG	X	471	47.203	43.729	20.943	0.00	0.00
ATOM	7125	CA	ARG	X	471	45.237	42.947	21.007	0.00	0.00
ATOM	7126	HA	ARG	X	471	44.503	43.318	20.293	0.00	0.00
ATOM	7127	CB	ARG	X	471	45.971	41.780	20.367	0.00	0.00
ATOM	7128	HB2	ARG	X	471	46.202	42.085	19.346	0.00	0.00
ATOM	7129	HB3	ARG	X	471	46.807	41.493	21.005	0.00	0.00
ATOM	7130	CG	ARG	X	471	45.012	40.559	20.303	0.00	0.00
ATOM	7131	HG2	ARG	X	471	44.804	40.251	21.328	0.00	0.00
ATOM	7132	HG3	ARG	X	471	44.029	40.723	19.862	0.00	0.00
ATOM	7133	CD	ARG	X	471	45.823	39.475	19.481	0.00	0.00
ATOM	7134	HD2	ARG	X	471	45.927	39.835	18.458	0.00	0.00
ATOM	7135	HD3	ARG	X	471	46.799	39.402	19.961	0.00	0.00
ATOM	7136	NE	ARG	X	471	45.151	38.209	19.346	0.00	0.00
ATOM	7137	HE	ARG	X	471	44.157	38.317	19.202	0.00	0.00
ATOM	7138	CZ	ARG	X	471	45.658	37.076	19.749	0.00	0.00
ATOM	7139	NH1	ARG	X	471	46.918	36.880	19.932	0.00	0.00
ATOM	7140	HH11	ARG	X	471	47.606	37.620	19.923	0.00	0.00
ATOM	7141	HH12	ARG	X	471	47.262	35.931	19.889	0.00	0.00
ATOM	7142	NH2	ARG	X	471	44.914	36.074	19.885	0.00	0.00
ATOM	7143	HH21	ARG	X	471	43.936	36.121	19.639	0.00	0.00
ATOM	7144	HH22	ARG	X	471	45.253	35.263	20.383	0.00	0.00
ATOM	7145	C	ARG	X	471	44.459	42.650	22.265	0.00	0.00
ATOM	7146	O	ARG	X	471	43.256	42.573	22.211	0.00	0.00
ATOM	7147	N	LEU	X	472	45.180	42.529	23.399	0.00	0.00

ATOM	7148	H	LEU	X	472	46.188	42.583	23.360	0.00	0.00
ATOM	7149	CA	LEU	X	472	44.561	42.146	24.676	0.00	0.00
ATOM	7150	HA	LEU	X	472	43.825	41.345	24.605	0.00	0.00
ATOM	7151	CB	LEU	X	472	45.685	41.675	25.643	0.00	0.00
ATOM	7152	HB2	LEU	X	472	46.425	42.473	25.694	0.00	0.00
ATOM	7153	HB3	LEU	X	472	45.256	41.499	26.630	0.00	0.00
ATOM	7154	CG	LEU	X	472	46.426	40.383	25.297	0.00	0.00
ATOM	7155	HG	LEU	X	472	47.166	40.656	24.545	0.00	0.00
ATOM	7156	CD1	LEU	X	472	47.192	39.813	26.559	0.00	0.00
ATOM	7157	HD11	LEU	X	472	46.445	39.786	27.353	0.00	0.00
ATOM	7158	HD12	LEU	X	472	47.707	38.881	26.327	0.00	0.00
ATOM	7159	HD13	LEU	X	472	47.871	40.548	26.991	0.00	0.00
ATOM	7160	CD2	LEU	X	472	45.535	39.288	24.686	0.00	0.00
ATOM	7161	HD21	LEU	X	472	44.656	39.053	25.287	0.00	0.00
ATOM	7162	HD22	LEU	X	472	45.124	39.655	23.746	0.00	0.00
ATOM	7163	HD23	LEU	X	472	46.126	38.458	24.299	0.00	0.00
ATOM	7164	C	LEU	X	472	43.814	43.267	25.307	0.00	0.00
ATOM	7165	O	LEU	X	472	42.666	43.102	25.715	0.00	0.00
ATOM	7166	N	MET	X	473	44.305	44.537	25.253	0.00	0.00
ATOM	7167	H	MET	X	473	45.265	44.632	24.953	0.00	0.00
ATOM	7168	CA	MET	X	473	43.671	45.715	25.551	0.00	0.00
ATOM	7169	HA	MET	X	473	43.463	45.795	26.617	0.00	0.00
ATOM	7170	CB	MET	X	473	44.565	46.907	25.180	0.00	0.00
ATOM	7171	HB2	MET	X	473	44.929	46.790	24.159	0.00	0.00
ATOM	7172	HB3	MET	X	473	43.879	47.748	25.076	0.00	0.00
ATOM	7173	CG	MET	X	473	45.565	47.235	26.264	0.00	0.00
ATOM	7174	HG2	MET	X	473	45.004	47.197	27.197	0.00	0.00
ATOM	7175	HG3	MET	X	473	46.295	46.430	26.353	0.00	0.00
ATOM	7176	SD	MET	X	473	46.409	48.824	26.222	0.00	0.00
ATOM	7177	CE	MET	X	473	46.875	49.079	24.487	0.00	0.00
ATOM	7178	HE1	MET	X	473	47.205	48.145	24.033	0.00	0.00
ATOM	7179	HE2	MET	X	473	46.056	49.526	23.923	0.00	0.00
ATOM	7180	HE3	MET	X	473	47.691	49.799	24.548	0.00	0.00
ATOM	7181	C	MET	X	473	42.373	45.912	24.759	0.00	0.00
ATOM	7182	O	MET	X	473	41.378	46.353	25.369	0.00	0.00
ATOM	7183	N	ARG	X	474	42.310	45.660	23.459	0.00	0.00
ATOM	7184	H	ARG	X	474	43.157	45.306	23.039	0.00	0.00
ATOM	7185	CA	ARG	X	474	41.045	45.780	22.708	0.00	0.00
ATOM	7186	HA	ARG	X	474	40.610	46.727	23.026	0.00	0.00
ATOM	7187	CB	ARG	X	474	41.347	45.693	21.160	0.00	0.00
ATOM	7188	HB2	ARG	X	474	41.961	46.561	20.917	0.00	0.00
ATOM	7189	HB3	ARG	X	474	41.819	44.724	20.997	0.00	0.00
ATOM	7190	CG	ARG	X	474	40.147	45.669	20.176	0.00	0.00
ATOM	7191	HG2	ARG	X	474	40.514	45.431	19.178	0.00	0.00
ATOM	7192	HG3	ARG	X	474	39.407	44.901	20.400	0.00	0.00
ATOM	7193	CD	ARG	X	474	39.430	47.058	20.195	0.00	0.00
ATOM	7194	HD2	ARG	X	474	38.881	47.081	21.136	0.00	0.00
ATOM	7195	HD3	ARG	X	474	40.152	47.868	20.295	0.00	0.00
ATOM	7196	NE	ARG	X	474	38.530	47.362	19.108	0.00	0.00
ATOM	7197	HE	ARG	X	474	38.161	46.563	18.614	0.00	0.00
ATOM	7198	CZ	ARG	X	474	38.048	48.534	18.727	0.00	0.00
ATOM	7199	NH1	ARG	X	474	38.291	49.689	19.408	0.00	0.00
ATOM	7200	HH11	ARG	X	474	38.787	49.632	20.286	0.00	0.00
ATOM	7201	HH12	ARG	X	474	37.933	50.569	19.067	0.00	0.00
ATOM	7202	NH2	ARG	X	474	37.300	48.631	17.686	0.00	0.00
ATOM	7203	HH21	ARG	X	474	37.093	47.813	17.132	0.00	0.00
ATOM	7204	HH22	ARG	X	474	36.870	49.474	17.335	0.00	0.00
ATOM	7205	C	ARG	X	474	40.091	44.603	23.145	0.00	0.00
ATOM	7206	O	ARG	X	474	38.863	44.852	23.180	0.00	0.00
ATOM	7207	N	TYR	X	475	40.512	43.416	23.591	0.00	0.00
ATOM	7208	H	TYR	X	475	41.464	43.147	23.390	0.00	0.00
ATOM	7209	CA	TYR	X	475	39.685	42.430	24.191	0.00	0.00
ATOM	7210	HA	TYR	X	475	38.889	42.143	23.504	0.00	0.00
ATOM	7211	CB	TYR	X	475	40.470	41.124	24.395	0.00	0.00
ATOM	7212	HB2	TYR	X	475	41.332	41.394	25.005	0.00	0.00
ATOM	7213	HB3	TYR	X	475	39.763	40.519	24.961	0.00	0.00
ATOM	7214	CG	TYR	X	475	40.997	40.298	23.176	0.00	0.00
ATOM	7215	CD1	TYR	X	475	40.387	40.384	21.912	0.00	0.00
ATOM	7216	HD1	TYR	X	475	39.425	40.863	21.800	0.00	0.00
ATOM	7217	CE1	TYR	X	475	40.887	39.643	20.802	0.00	0.00

ATOM	7218	HE1	TYR	X	475	40.302	39.705	19.896	0.00	0.00
ATOM	7219	CZ	TYR	X	475	42.047	38.832	20.938	0.00	0.00
ATOM	7220	OH	TYR	X	475	42.293	37.917	19.995	0.00	0.00
ATOM	7221	HH	TYR	X	475	41.849	38.218	19.198	0.00	0.00
ATOM	7222	CE2	TYR	X	475	42.563	38.602	22.222	0.00	0.00
ATOM	7223	HE2	TYR	X	475	43.239	37.784	22.424	0.00	0.00
ATOM	7224	CD2	TYR	X	475	42.118	39.414	23.269	0.00	0.00
ATOM	7225	HD2	TYR	X	475	42.511	39.263	24.264	0.00	0.00
ATOM	7226	C	TYR	X	475	39.024	42.986	25.448	0.00	0.00
ATOM	7227	O	TYR	X	475	37.785	42.942	25.601	0.00	0.00
ATOM	7228	N	TRP	X	476	39.741	43.343	26.521	0.00	0.00
ATOM	7229	H	TRP	X	476	40.731	43.414	26.333	0.00	0.00
ATOM	7230	CA	TRP	X	476	39.213	43.917	27.786	0.00	0.00
ATOM	7231	HA	TRP	X	476	38.579	43.208	28.318	0.00	0.00
ATOM	7232	CB	TRP	X	476	40.386	44.096	28.699	0.00	0.00
ATOM	7233	HB2	TRP	X	476	41.188	44.540	28.109	0.00	0.00
ATOM	7234	HB3	TRP	X	476	39.995	44.898	29.326	0.00	0.00
ATOM	7235	CG	TRP	X	476	40.904	42.974	29.605	0.00	0.00
ATOM	7236	CD1	TRP	X	476	40.878	43.012	30.978	0.00	0.00
ATOM	7237	HD1	TRP	X	476	40.461	43.873	31.477	0.00	0.00
ATOM	7238	NE1	TRP	X	476	41.412	41.879	31.489	0.00	0.00
ATOM	7239	HE1	TRP	X	476	41.540	41.807	32.488	0.00	0.00
ATOM	7240	CE2	TRP	X	476	41.820	40.940	30.543	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	42.411	39.630	30.643	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	42.663	39.080	31.537	0.00	0.00
ATOM	7243	CH2	TRP	X	476	42.735	38.996	29.400	0.00	0.00
ATOM	7244	HH2	TRP	X	476	43.193	38.020	29.455	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	42.542	39.663	28.183	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	42.699	39.085	27.284	0.00	0.00
ATOM	7247	CE3	TRP	X	476	41.827	40.906	28.170	0.00	0.00
ATOM	7248	HE3	TRP	X	476	41.357	41.231	27.254	0.00	0.00
ATOM	7249	CD2	TRP	X	476	41.519	41.650	29.302	0.00	0.00
ATOM	7250	C	TRP	X	476	38.335	45.144	27.555	0.00	0.00
ATOM	7251	O	TRP	X	476	37.326	45.283	28.278	0.00	0.00
ATOM	7252	N	ALA	X	477	38.592	46.135	26.661	0.00	0.00
ATOM	7253	H	ALA	X	477	39.516	46.217	26.261	0.00	0.00
ATOM	7254	CA	ALA	X	477	37.632	47.163	26.269	0.00	0.00
ATOM	7255	HA	ALA	X	477	37.165	47.612	27.146	0.00	0.00
ATOM	7256	CB	ALA	X	477	38.416	48.395	25.671	0.00	0.00
ATOM	7257	HB1	ALA	X	477	38.687	48.113	24.654	0.00	0.00
ATOM	7258	HB2	ALA	X	477	37.825	49.311	25.678	0.00	0.00
ATOM	7259	HB3	ALA	X	477	39.340	48.548	26.228	0.00	0.00
ATOM	7260	C	ALA	X	477	36.430	46.688	25.430	0.00	0.00
ATOM	7261	O	ALA	X	477	35.303	47.129	25.722	0.00	0.00
ATOM	7262	N	ASN	X	478	36.540	45.831	24.449	0.00	0.00
ATOM	7263	H	ASN	X	478	37.458	45.598	24.099	0.00	0.00
ATOM	7264	CA	ASN	X	478	35.366	45.193	23.711	0.00	0.00
ATOM	7265	HA	ASN	X	478	34.715	45.882	23.172	0.00	0.00
ATOM	7266	CB	ASN	X	478	35.932	44.204	22.656	0.00	0.00
ATOM	7267	HB2	ASN	X	478	36.716	43.595	23.107	0.00	0.00
ATOM	7268	HB3	ASN	X	478	35.237	43.381	22.491	0.00	0.00
ATOM	7269	CG	ASN	X	478	36.348	44.836	21.367	0.00	0.00
ATOM	7270	OD1	ASN	X	478	36.021	45.958	21.037	0.00	0.00
ATOM	7271	ND2	ASN	X	478	36.940	43.972	20.514	0.00	0.00
ATOM	7272	HD21	ASN	X	478	37.000	44.219	19.536	0.00	0.00
ATOM	7273	HD22	ASN	X	478	37.165	43.010	20.723	0.00	0.00
ATOM	7274	C	ASN	X	478	34.480	44.449	24.737	0.00	0.00
ATOM	7275	O	ASN	X	478	33.236	44.598	24.707	0.00	0.00
ATOM	7276	N	PHE	X	479	35.052	44.025	25.917	0.00	0.00
ATOM	7277	H	PHE	X	479	36.058	44.052	26.000	0.00	0.00
ATOM	7278	CA	PHE	X	479	34.257	43.579	27.044	0.00	0.00
ATOM	7279	HA	PHE	X	479	33.450	42.920	26.722	0.00	0.00
ATOM	7280	CB	PHE	X	479	35.180	42.731	27.941	0.00	0.00
ATOM	7281	HB2	PHE	X	479	35.875	42.360	27.188	0.00	0.00
ATOM	7282	HB3	PHE	X	479	35.761	43.406	28.569	0.00	0.00
ATOM	7283	CG	PHE	X	479	34.524	41.662	28.746	0.00	0.00
ATOM	7284	CD1	PHE	X	479	34.110	40.438	28.260	0.00	0.00
ATOM	7285	HD1	PHE	X	479	34.395	40.308	27.226	0.00	0.00
ATOM	7286	CE1	PHE	X	479	33.269	39.637	28.947	0.00	0.00
ATOM	7287	HE1	PHE	X	479	33.011	38.660	28.568	0.00	0.00

ATOM	7288	CZ	PHE	X	479	32.837	39.990	30.259	0.00	0.00
ATOM	7289	HZ	PHE	X	479	32.058	39.441	30.767	0.00	0.00
ATOM	7290	CE2	PHE	X	479	33.395	41.060	30.823	0.00	0.00
ATOM	7291	HE2	PHE	X	479	33.102	41.348	31.821	0.00	0.00
ATOM	7292	CD2	PHE	X	479	34.159	41.968	30.109	0.00	0.00
ATOM	7293	HD2	PHE	X	479	34.448	42.929	30.508	0.00	0.00
ATOM	7294	C	PHE	X	479	33.538	44.672	27.811	0.00	0.00
ATOM	7295	O	PHE	X	479	32.387	44.543	28.197	0.00	0.00
ATOM	7296	N	ALA	X	480	34.260	45.823	28.012	0.00	0.00
ATOM	7297	H	ALA	X	480	35.227	45.917	27.733	0.00	0.00
ATOM	7298	CA	ALA	X	480	33.651	47.030	28.519	0.00	0.00
ATOM	7299	HA	ALA	X	480	33.274	46.778	29.510	0.00	0.00
ATOM	7300	CB	ALA	X	480	34.756	48.133	28.603	0.00	0.00
ATOM	7301	HB1	ALA	X	480	35.760	47.711	28.653	0.00	0.00
ATOM	7302	HB2	ALA	X	480	34.808	48.735	27.696	0.00	0.00
ATOM	7303	HB3	ALA	X	480	34.604	48.745	29.492	0.00	0.00
ATOM	7304	C	ALA	X	480	32.488	47.557	27.698	0.00	0.00
ATOM	7305	O	ALA	X	480	31.537	48.092	28.210	0.00	0.00
ATOM	7306	N	ARG	X	481	32.523	47.390	26.335	0.00	0.00
ATOM	7307	H	ARG	X	481	33.417	47.053	26.007	0.00	0.00
ATOM	7308	CA	ARG	X	481	31.503	47.852	25.397	0.00	0.00
ATOM	7309	HA	ARG	X	481	31.221	48.847	25.740	0.00	0.00
ATOM	7310	CB	ARG	X	481	32.044	47.987	24.029	0.00	0.00
ATOM	7311	HB2	ARG	X	481	32.526	47.056	23.730	0.00	0.00
ATOM	7312	HB3	ARG	X	481	31.164	48.137	23.403	0.00	0.00
ATOM	7313	CG	ARG	X	481	33.152	49.071	23.914	0.00	0.00
ATOM	7314	HG2	ARG	X	481	32.703	50.054	24.058	0.00	0.00
ATOM	7315	HG3	ARG	X	481	33.805	48.987	24.783	0.00	0.00
ATOM	7316	CD	ARG	X	481	34.031	49.066	22.663	0.00	0.00
ATOM	7317	HD2	ARG	X	481	34.424	48.066	22.478	0.00	0.00
ATOM	7318	HD3	ARG	X	481	33.411	49.368	21.819	0.00	0.00
ATOM	7319	NE	ARG	X	481	35.106	50.020	22.692	0.00	0.00
ATOM	7320	HE	ARG	X	481	34.812	50.986	22.725	0.00	0.00
ATOM	7321	CZ	ARG	X	481	36.426	49.828	22.655	0.00	0.00
ATOM	7322	NH1	ARG	X	481	36.940	48.662	22.289	0.00	0.00
ATOM	7323	HH11	ARG	X	481	36.352	47.841	22.282	0.00	0.00
ATOM	7324	HH12	ARG	X	481	37.939	48.653	22.142	0.00	0.00
ATOM	7325	NH2	ARG	X	481	37.278	50.809	22.758	0.00	0.00
ATOM	7326	HH21	ARG	X	481	37.085	51.772	22.991	0.00	0.00
ATOM	7327	HH22	ARG	X	481	38.243	50.518	22.697	0.00	0.00
ATOM	7328	C	ARG	X	481	30.242	47.001	25.510	0.00	0.00
ATOM	7329	O	ARG	X	481	29.118	47.554	25.722	0.00	0.00
ATOM	7330	N	THR	X	482	30.414	45.675	25.287	0.00	0.00
ATOM	7331	H	THR	X	482	31.304	45.312	24.977	0.00	0.00
ATOM	7332	CA	THR	X	482	29.264	44.735	25.081	0.00	0.00
ATOM	7333	HA	THR	X	482	28.307	45.224	25.265	0.00	0.00
ATOM	7334	CB	THR	X	482	29.229	44.335	23.535	0.00	0.00
ATOM	7335	HB	THR	X	482	28.412	43.646	23.322	0.00	0.00
ATOM	7336	CG2	THR	X	482	29.138	45.479	22.561	0.00	0.00
ATOM	7337	HG21	THR	X	482	29.036	45.125	21.535	0.00	0.00
ATOM	7338	HG22	THR	X	482	28.312	46.131	22.845	0.00	0.00
ATOM	7339	HG23	THR	X	482	30.041	46.068	22.724	0.00	0.00
ATOM	7340	OG1	THR	X	482	30.528	43.741	23.422	0.00	0.00
ATOM	7341	HG1	THR	X	482	30.671	43.716	22.473	0.00	0.00
ATOM	7342	C	THR	X	482	29.420	43.494	25.903	0.00	0.00
ATOM	7343	O	THR	X	482	28.438	42.775	26.034	0.00	0.00
ATOM	7344	N	GLY	X	483	30.617	43.196	26.525	0.00	0.00
ATOM	7345	H	GLY	X	483	31.412	43.801	26.382	0.00	0.00
ATOM	7346	CA	GLY	X	483	30.897	41.852	27.184	0.00	0.00
ATOM	7347	HA2	GLY	X	483	31.820	41.983	27.712	0.00	0.00
ATOM	7348	HA3	GLY	X	483	30.089	41.502	27.783	0.00	0.00
ATOM	7349	C	GLY	X	483	31.052	40.719	26.126	0.00	0.00
ATOM	7350	O	GLY	X	483	31.163	39.571	26.563	0.00	0.00
ATOM	7351	N	ASP	X	484	31.221	40.968	24.822	0.00	0.00
ATOM	7352	H	ASP	X	484	31.281	41.945	24.572	0.00	0.00
ATOM	7353	CA	ASP	X	484	31.938	40.079	23.815	0.00	0.00
ATOM	7354	HA	ASP	X	484	31.903	39.018	24.064	0.00	0.00
ATOM	7355	CB	ASP	X	484	31.480	40.407	22.365	0.00	0.00
ATOM	7356	HB2	ASP	X	484	31.595	41.449	22.066	0.00	0.00
ATOM	7357	HB3	ASP	X	484	32.037	39.799	21.652	0.00	0.00

ATOM	7358	CG	ASP	X	484	29.960	40.105	22.048	0.00	0.00
ATOM	7359	OD1	ASP	X	484	29.298	39.295	22.687	0.00	0.00
ATOM	7360	OD2	ASP	X	484	29.494	40.704	21.076	0.00	0.00
ATOM	7361	C	ASP	X	484	33.413	40.422	23.822	0.00	0.00
ATOM	7362	O	ASP	X	484	33.744	41.628	23.651	0.00	0.00
ATOM	7363	N	PRO	X	485	34.395	39.477	23.843	0.00	0.00
ATOM	7364	CD	PRO	X	485	34.390	38.116	24.331	0.00	0.00
ATOM	7365	HD2	PRO	X	485	33.978	37.438	23.583	0.00	0.00
ATOM	7366	HD3	PRO	X	485	33.583	38.095	25.064	0.00	0.00
ATOM	7367	CG	PRO	X	485	35.726	37.765	24.976	0.00	0.00
ATOM	7368	HG2	PRO	X	485	35.996	36.709	24.971	0.00	0.00
ATOM	7369	HG3	PRO	X	485	35.839	38.332	25.900	0.00	0.00
ATOM	7370	CB	PRO	X	485	36.569	38.497	23.955	0.00	0.00
ATOM	7371	HB2	PRO	X	485	36.674	37.857	23.079	0.00	0.00
ATOM	7372	HB3	PRO	X	485	37.554	38.730	24.359	0.00	0.00
ATOM	7373	CA	PRO	X	485	35.839	39.789	23.716	0.00	0.00
ATOM	7374	HA	PRO	X	485	36.194	40.401	24.545	0.00	0.00
ATOM	7375	C	PRO	X	485	36.164	40.270	22.251	0.00	0.00
ATOM	7376	O	PRO	X	485	37.145	41.059	22.008	0.00	0.00
ATOM	7377	N	ASN	X	486	35.500	39.790	21.207	0.00	0.00
ATOM	7378	H	ASN	X	486	34.817	39.069	21.390	0.00	0.00
ATOM	7379	CA	ASN	X	486	35.737	40.152	19.813	0.00	0.00
ATOM	7380	HA	ASN	X	486	36.807	40.332	19.712	0.00	0.00
ATOM	7381	CB	ASN	X	486	35.125	38.977	19.001	0.00	0.00
ATOM	7382	HB2	ASN	X	486	35.041	39.254	17.950	0.00	0.00
ATOM	7383	HB3	ASN	X	486	35.877	38.188	18.978	0.00	0.00
ATOM	7384	CG	ASN	X	486	33.817	38.435	19.515	0.00	0.00
ATOM	7385	OD1	ASN	X	486	33.787	37.664	20.445	0.00	0.00
ATOM	7386	ND2	ASN	X	486	32.706	38.887	18.954	0.00	0.00
ATOM	7387	HD21	ASN	X	486	31.827	38.550	19.321	0.00	0.00
ATOM	7388	HD22	ASN	X	486	32.746	39.673	18.321	0.00	0.00
ATOM	7389	C	ASN	X	486	35.099	41.487	19.528	0.00	0.00
ATOM	7390	O	ASN	X	486	34.230	41.999	20.234	0.00	0.00
ATOM	7391	N	GLU	X	487	35.353	41.996	18.347	0.00	0.00
ATOM	7392	H	GLU	X	487	36.126	41.570	17.857	0.00	0.00
ATOM	7393	CA	GLU	X	487	34.454	42.968	17.655	0.00	0.00
ATOM	7394	HA	GLU	X	487	34.461	43.879	18.253	0.00	0.00
ATOM	7395	CB	GLU	X	487	35.021	43.257	16.257	0.00	0.00
ATOM	7396	HB2	GLU	X	487	35.174	42.265	15.831	0.00	0.00
ATOM	7397	HB3	GLU	X	487	34.283	43.784	15.653	0.00	0.00
ATOM	7398	CG	GLU	X	487	36.302	44.034	16.134	0.00	0.00
ATOM	7399	HG2	GLU	X	487	37.130	43.467	16.561	0.00	0.00
ATOM	7400	HG3	GLU	X	487	36.538	44.109	15.073	0.00	0.00
ATOM	7401	CD	GLU	X	487	36.384	45.387	16.797	0.00	0.00
ATOM	7402	OE1	GLU	X	487	37.521	45.832	17.085	0.00	0.00
ATOM	7403	OE2	GLU	X	487	35.371	46.043	17.121	0.00	0.00
ATOM	7404	C	GLU	X	487	33.031	42.468	17.564	0.00	0.00
ATOM	7405	O	GLU	X	487	32.825	41.296	17.359	0.00	0.00
ATOM	7406	N	PRO	X	488	32.028	43.414	17.547	0.00	0.00
ATOM	7407	CD	PRO	X	488	32.023	44.767	18.156	0.00	0.00
ATOM	7408	HD2	PRO	X	488	32.597	45.340	17.428	0.00	0.00
ATOM	7409	HD3	PRO	X	488	32.518	44.909	19.117	0.00	0.00
ATOM	7410	CG	PRO	X	488	30.519	45.207	18.279	0.00	0.00
ATOM	7411	HG2	PRO	X	488	30.408	46.288	18.184	0.00	0.00
ATOM	7412	HG3	PRO	X	488	30.159	44.816	19.231	0.00	0.00
ATOM	7413	CB	PRO	X	488	29.846	44.280	17.260	0.00	0.00
ATOM	7414	HB2	PRO	X	488	29.843	44.800	16.302	0.00	0.00
ATOM	7415	HB3	PRO	X	488	28.833	43.963	17.507	0.00	0.00
ATOM	7416	CA	PRO	X	488	30.709	42.999	17.167	0.00	0.00
ATOM	7417	HA	PRO	X	488	30.402	42.192	17.832	0.00	0.00
ATOM	7418	C	PRO	X	488	30.687	42.526	15.692	0.00	0.00
ATOM	7419	O	PRO	X	488	30.194	41.458	15.324	0.00	0.00
ATOM	7420	N	ARG	X	489	31.323	43.304	14.836	0.00	0.00
ATOM	7421	H	ARG	X	489	31.673	44.227	15.052	0.00	0.00
ATOM	7422	CA	ARG	X	489	31.287	43.017	13.355	0.00	0.00
ATOM	7423	HA	ARG	X	489	30.329	42.523	13.193	0.00	0.00
ATOM	7424	CB	ARG	X	489	31.281	44.274	12.445	0.00	0.00
ATOM	7425	HB2	ARG	X	489	30.444	44.908	12.738	0.00	0.00
ATOM	7426	HB3	ARG	X	489	32.255	44.761	12.489	0.00	0.00
ATOM	7427	CG	ARG	X	489	30.960	43.866	11.061	0.00	0.00

ATOM	7428	HG2	ARG	X	489	31.651	43.077	10.762	0.00	0.00
ATOM	7429	HG3	ARG	X	489	29.984	43.406	10.902	0.00	0.00
ATOM	7430	CD	ARG	X	489	31.047	45.065	10.132	0.00	0.00
ATOM	7431	HD2	ARG	X	489	30.582	44.800	9.183	0.00	0.00
ATOM	7432	HD3	ARG	X	489	30.517	45.934	10.521	0.00	0.00
ATOM	7433	NE	ARG	X	489	32.462	45.502	9.900	0.00	0.00
ATOM	7434	HE	ARG	X	489	32.837	46.196	10.531	0.00	0.00
ATOM	7435	CZ	ARG	X	489	33.387	44.917	9.164	0.00	0.00
ATOM	7436	NH1	ARG	X	489	34.471	45.665	9.026	0.00	0.00
ATOM	7437	HH11	ARG	X	489	34.601	46.553	9.490	0.00	0.00
ATOM	7438	HH12	ARG	X	489	35.220	45.318	8.443	0.00	0.00
ATOM	7439	NH2	ARG	X	489	33.278	43.769	8.506	0.00	0.00
ATOM	7440	HH21	ARG	X	489	32.458	43.183	8.574	0.00	0.00
ATOM	7441	HH22	ARG	X	489	33.894	43.599	7.725	0.00	0.00
ATOM	7442	C	ARG	X	489	32.541	42.073	13.209	0.00	0.00
ATOM	7443	O	ARG	X	489	33.608	42.411	12.640	0.00	0.00
ATOM	7444	N	ASP	X	490	32.466	40.828	13.720	0.00	0.00
ATOM	7445	H	ASP	X	490	31.562	40.463	13.982	0.00	0.00
ATOM	7446	CA	ASP	X	490	33.548	39.833	13.876	0.00	0.00
ATOM	7447	HA	ASP	X	490	34.269	40.168	14.622	0.00	0.00
ATOM	7448	CB	ASP	X	490	32.949	38.496	14.471	0.00	0.00
ATOM	7449	HB2	ASP	X	490	33.762	37.794	14.660	0.00	0.00
ATOM	7450	HB3	ASP	X	490	32.409	38.801	15.367	0.00	0.00
ATOM	7451	CG	ASP	X	490	31.878	37.814	13.642	0.00	0.00
ATOM	7452	OD1	ASP	X	490	30.784	38.415	13.478	0.00	0.00
ATOM	7453	OD2	ASP	X	490	32.056	36.595	13.432	0.00	0.00
ATOM	7454	C	ASP	X	490	34.276	39.470	12.527	0.00	0.00
ATOM	7455	O	ASP	X	490	33.620	38.973	11.597	0.00	0.00
ATOM	7456	N	PRO	X	491	35.577	39.726	12.413	0.00	0.00
ATOM	7457	CD	PRO	X	491	36.314	40.540	13.373	0.00	0.00
ATOM	7458	HD2	PRO	X	491	36.483	39.998	14.303	0.00	0.00
ATOM	7459	HD3	PRO	X	491	35.678	41.390	13.621	0.00	0.00
ATOM	7460	CG	PRO	X	491	37.669	40.906	12.751	0.00	0.00
ATOM	7461	HG2	PRO	X	491	38.489	40.855	13.469	0.00	0.00
ATOM	7462	HG3	PRO	X	491	37.528	41.886	12.297	0.00	0.00
ATOM	7463	CB	PRO	X	491	37.924	39.825	11.739	0.00	0.00
ATOM	7464	HB2	PRO	X	491	38.529	38.991	12.094	0.00	0.00
ATOM	7465	HB3	PRO	X	491	38.443	40.094	10.819	0.00	0.00
ATOM	7466	CA	PRO	X	491	36.553	39.391	11.316	0.00	0.00
ATOM	7467	HA	PRO	X	491	36.235	39.900	10.406	0.00	0.00
ATOM	7468	C	PRO	X	491	36.544	37.868	11.117	0.00	0.00
ATOM	7469	O	PRO	X	491	36.508	37.120	12.118	0.00	0.00
ATOM	7470	N	LYS	X	492	36.747	37.476	9.840	0.00	0.00
ATOM	7471	H	LYS	X	492	36.886	37.992	8.983	0.00	0.00
ATOM	7472	CA	LYS	X	492	36.883	36.052	9.619	0.00	0.00
ATOM	7473	HA	LYS	X	492	36.017	35.640	10.137	0.00	0.00
ATOM	7474	CB	LYS	X	492	36.740	35.719	8.065	0.00	0.00
ATOM	7475	HB2	LYS	X	492	35.777	36.102	7.728	0.00	0.00
ATOM	7476	HB3	LYS	X	492	37.525	36.241	7.516	0.00	0.00
ATOM	7477	CG	LYS	X	492	36.689	34.206	7.918	0.00	0.00
ATOM	7478	HG2	LYS	X	492	37.735	33.900	7.962	0.00	0.00
ATOM	7479	HG3	LYS	X	492	36.238	33.750	8.800	0.00	0.00
ATOM	7480	CD	LYS	X	492	35.950	33.639	6.721	0.00	0.00
ATOM	7481	HD2	LYS	X	492	34.954	34.070	6.627	0.00	0.00
ATOM	7482	HD3	LYS	X	492	36.441	33.946	5.797	0.00	0.00
ATOM	7483	CE	LYS	X	492	35.827	32.118	6.796	0.00	0.00
ATOM	7484	HE2	LYS	X	492	36.794	31.696	6.524	0.00	0.00
ATOM	7485	HE3	LYS	X	492	35.449	31.779	7.761	0.00	0.00
ATOM	7486	NZ	LYS	X	492	34.783	31.616	5.879	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	33.889	32.034	6.094	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	34.971	31.752	4.896	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	34.729	30.609	5.943	0.00	0.00
ATOM	7490	C	LYS	X	492	38.083	35.299	10.345	0.00	0.00
ATOM	7491	O	LYS	X	492	37.994	34.107	10.574	0.00	0.00
ATOM	7492	N	ALA	X	493	39.162	36.015	10.771	0.00	0.00
ATOM	7493	H	ALA	X	493	39.078	37.021	10.771	0.00	0.00
ATOM	7494	CA	ALA	X	493	40.148	35.531	11.705	0.00	0.00
ATOM	7495	HA	ALA	X	493	40.766	34.797	11.187	0.00	0.00
ATOM	7496	CB	ALA	X	493	40.900	36.767	12.313	0.00	0.00
ATOM	7497	HB1	ALA	X	493	41.644	36.521	13.071	0.00	0.00

ATOM	7498	HB2	ALA	X	493	41.256	37.330	11.450	0.00	0.00
ATOM	7499	HB3	ALA	X	493	40.186	37.442	12.786	0.00	0.00
ATOM	7500	C	ALA	X	493	39.551	34.779	12.982	0.00	0.00
ATOM	7501	O	ALA	X	493	38.402	35.082	13.403	0.00	0.00
ATOM	7502	N	PRO	X	494	40.278	33.905	13.616	0.00	0.00
ATOM	7503	CD	PRO	X	494	41.611	33.487	13.250	0.00	0.00
ATOM	7504	HD2	PRO	X	494	42.271	34.281	12.901	0.00	0.00
ATOM	7505	HD3	PRO	X	494	41.642	32.771	12.429	0.00	0.00
ATOM	7506	CG	PRO	X	494	42.137	32.864	14.586	0.00	0.00
ATOM	7507	HG2	PRO	X	494	42.469	33.596	15.322	0.00	0.00
ATOM	7508	HG3	PRO	X	494	42.900	32.108	14.402	0.00	0.00
ATOM	7509	CB	PRO	X	494	40.964	32.239	15.318	0.00	0.00
ATOM	7510	HB2	PRO	X	494	41.249	32.253	16.370	0.00	0.00
ATOM	7511	HB3	PRO	X	494	40.704	31.315	14.801	0.00	0.00
ATOM	7512	CA	PRO	X	494	39.816	33.193	14.857	0.00	0.00
ATOM	7513	HA	PRO	X	494	39.005	32.532	14.551	0.00	0.00
ATOM	7514	C	PRO	X	494	39.350	34.131	15.996	0.00	0.00
ATOM	7515	O	PRO	X	494	39.990	35.097	16.360	0.00	0.00
ATOM	7516	N	GLN	X	495	38.272	33.785	16.692	0.00	0.00
ATOM	7517	H	GLN	X	495	37.877	32.872	16.520	0.00	0.00
ATOM	7518	CA	GLN	X	495	37.735	34.564	17.819	0.00	0.00
ATOM	7519	HA	GLN	X	495	38.471	35.294	18.155	0.00	0.00
ATOM	7520	CB	GLN	X	495	36.491	35.244	17.340	0.00	0.00
ATOM	7521	HB2	GLN	X	495	35.769	34.446	17.165	0.00	0.00
ATOM	7522	HB3	GLN	X	495	36.177	35.875	18.171	0.00	0.00
ATOM	7523	CG	GLN	X	495	36.482	36.130	16.172	0.00	0.00
ATOM	7524	HG2	GLN	X	495	36.672	35.490	15.310	0.00	0.00
ATOM	7525	HG3	GLN	X	495	35.437	36.398	16.011	0.00	0.00
ATOM	7526	CD	GLN	X	495	37.353	37.324	16.170	0.00	0.00
ATOM	7527	OE1	GLN	X	495	37.481	37.998	17.202	0.00	0.00
ATOM	7528	NE2	GLN	X	495	38.119	37.521	15.163	0.00	0.00
ATOM	7529	HE21	GLN	X	495	38.703	38.344	15.211	0.00	0.00
ATOM	7530	HE22	GLN	X	495	38.052	36.882	14.384	0.00	0.00
ATOM	7531	C	GLN	X	495	37.402	33.739	19.088	0.00	0.00
ATOM	7532	O	GLN	X	495	36.960	32.540	18.948	0.00	0.00
ATOM	7533	N	TRP	X	496	37.543	34.291	20.324	0.00	0.00
ATOM	7534	H	TRP	X	496	37.731	35.282	20.369	0.00	0.00
ATOM	7535	CA	TRP	X	496	37.252	33.677	21.625	0.00	0.00
ATOM	7536	HA	TRP	X	496	37.994	32.889	21.757	0.00	0.00
ATOM	7537	CB	TRP	X	496	37.550	34.753	22.705	0.00	0.00
ATOM	7538	HB2	TRP	X	496	38.503	35.154	22.360	0.00	0.00
ATOM	7539	HB3	TRP	X	496	36.841	35.579	22.764	0.00	0.00
ATOM	7540	CG	TRP	X	496	37.831	34.456	24.110	0.00	0.00
ATOM	7541	CD1	TRP	X	496	37.524	33.358	24.845	0.00	0.00
ATOM	7542	HD1	TRP	X	496	36.884	32.561	24.495	0.00	0.00
ATOM	7543	NE1	TRP	X	496	38.148	33.429	26.027	0.00	0.00
ATOM	7544	HE1	TRP	X	496	38.202	32.669	26.690	0.00	0.00
ATOM	7545	CE2	TRP	X	496	38.914	34.548	26.156	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	39.586	35.080	27.275	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	39.673	34.514	28.190	0.00	0.00
ATOM	7548	CH2	TRP	X	496	40.362	36.280	27.184	0.00	0.00
ATOM	7549	HH2	TRP	X	496	41.008	36.591	27.992	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	40.202	37.010	25.943	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	40.710	37.953	25.806	0.00	0.00
ATOM	7552	CE3	TRP	X	496	39.490	36.441	24.818	0.00	0.00
ATOM	7553	HE3	TRP	X	496	39.500	37.079	23.947	0.00	0.00
ATOM	7554	CD2	TRP	X	496	38.824	35.227	24.938	0.00	0.00
ATOM	7555	C	TRP	X	496	35.859	33.038	21.724	0.00	0.00
ATOM	7556	O	TRP	X	496	34.908	33.847	21.774	0.00	0.00
ATOM	7557	N	PRO	X	497	35.644	31.717	21.743	0.00	0.00
ATOM	7558	CD	PRO	X	497	36.613	30.682	21.480	0.00	0.00
ATOM	7559	HD2	PRO	X	497	37.504	30.842	22.087	0.00	0.00
ATOM	7560	HD3	PRO	X	497	36.778	30.715	20.403	0.00	0.00
ATOM	7561	CG	PRO	X	497	35.920	29.381	21.806	0.00	0.00
ATOM	7562	HG2	PRO	X	497	36.203	29.037	22.801	0.00	0.00
ATOM	7563	HG3	PRO	X	497	36.154	28.704	20.985	0.00	0.00
ATOM	7564	CB	PRO	X	497	34.442	29.690	21.722	0.00	0.00
ATOM	7565	HB2	PRO	X	497	33.948	29.006	22.412	0.00	0.00
ATOM	7566	HB3	PRO	X	497	33.980	29.529	20.748	0.00	0.00
ATOM	7567	CA	PRO	X	497	34.335	31.208	22.079	0.00	0.00

ATOM	7568	HA	PRO	X	497	33.569	31.725	21.501	0.00	0.00
ATOM	7569	C	PRO	X	497	33.920	31.299	23.542	0.00	0.00
ATOM	7570	O	PRO	X	497	34.727	31.072	24.428	0.00	0.00
ATOM	7571	N	PRO	X	498	32.599	31.341	23.850	0.00	0.00
ATOM	7572	CD	PRO	X	498	31.429	31.511	23.000	0.00	0.00
ATOM	7573	HD2	PRO	X	498	31.088	30.517	22.711	0.00	0.00
ATOM	7574	HD3	PRO	X	498	31.663	32.120	22.126	0.00	0.00
ATOM	7575	CG	PRO	X	498	30.486	32.202	23.943	0.00	0.00
ATOM	7576	HG2	PRO	X	498	29.474	32.213	23.538	0.00	0.00
ATOM	7577	HG3	PRO	X	498	30.757	33.255	24.013	0.00	0.00
ATOM	7578	CB	PRO	X	498	30.694	31.480	25.319	0.00	0.00
ATOM	7579	HB2	PRO	X	498	30.005	30.644	25.444	0.00	0.00
ATOM	7580	HB3	PRO	X	498	30.587	32.321	26.004	0.00	0.00
ATOM	7581	CA	PRO	X	498	32.180	31.069	25.217	0.00	0.00
ATOM	7582	HA	PRO	X	498	32.780	31.768	25.800	0.00	0.00
ATOM	7583	C	PRO	X	498	32.443	29.663	25.823	0.00	0.00
ATOM	7584	O	PRO	X	498	32.146	28.593	25.154	0.00	0.00
ATOM	7585	N	TYR	X	499	32.741	29.688	27.138	0.00	0.00
ATOM	7586	H	TYR	X	499	32.563	30.595	27.546	0.00	0.00
ATOM	7587	CA	TYR	X	499	32.833	28.476	28.022	0.00	0.00
ATOM	7588	HA	TYR	X	499	33.354	27.620	27.594	0.00	0.00
ATOM	7589	CB	TYR	X	499	33.658	29.001	29.278	0.00	0.00
ATOM	7590	HB2	TYR	X	499	34.577	29.473	28.931	0.00	0.00
ATOM	7591	HB3	TYR	X	499	33.043	29.772	29.742	0.00	0.00
ATOM	7592	CG	TYR	X	499	34.026	27.929	30.332	0.00	0.00
ATOM	7593	CD1	TYR	X	499	33.113	27.426	31.259	0.00	0.00
ATOM	7594	HD1	TYR	X	499	32.061	27.671	31.245	0.00	0.00
ATOM	7595	CE1	TYR	X	499	33.477	26.463	32.240	0.00	0.00
ATOM	7596	HE1	TYR	X	499	32.731	26.160	32.960	0.00	0.00
ATOM	7597	CZ	TYR	X	499	34.829	26.140	32.369	0.00	0.00
ATOM	7598	OH	TYR	X	499	35.197	25.453	33.447	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.576	25.455	34.179	0.00	0.00
ATOM	7600	CE2	TYR	X	499	35.802	26.566	31.368	0.00	0.00
ATOM	7601	HE2	TYR	X	499	36.833	26.246	31.331	0.00	0.00
ATOM	7602	CD2	TYR	X	499	35.350	27.457	30.358	0.00	0.00
ATOM	7603	HD2	TYR	X	499	36.077	27.787	29.630	0.00	0.00
ATOM	7604	C	TYR	X	499	31.366	28.070	28.352	0.00	0.00
ATOM	7605	O	TYR	X	499	30.644	28.839	28.997	0.00	0.00
ATOM	7606	N	THR	X	500	31.033	26.855	28.081	0.00	0.00
ATOM	7607	H	THR	X	500	31.736	26.310	27.604	0.00	0.00
ATOM	7608	CA	THR	X	500	29.844	26.181	28.626	0.00	0.00
ATOM	7609	HA	THR	X	500	29.112	26.889	29.015	0.00	0.00
ATOM	7610	CB	THR	X	500	29.059	25.375	27.657	0.00	0.00
ATOM	7611	HB	THR	X	500	28.314	24.776	28.180	0.00	0.00
ATOM	7612	CG2	THR	X	500	28.186	26.313	26.736	0.00	0.00
ATOM	7613	HG21	THR	X	500	27.568	25.774	26.017	0.00	0.00
ATOM	7614	HG22	THR	X	500	27.443	26.791	27.373	0.00	0.00
ATOM	7615	HG23	THR	X	500	28.905	27.027	26.335	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.778	24.549	26.774	0.00	0.00
ATOM	7617	HG1	THR	X	500	29.297	23.757	26.524	0.00	0.00
ATOM	7618	C	THR	X	500	30.370	25.255	29.702	0.00	0.00
ATOM	7619	O	THR	X	500	31.574	24.970	29.793	0.00	0.00
ATOM	7620	N	ALA	X	501	29.571	24.795	30.664	0.00	0.00
ATOM	7621	H	ALA	X	501	28.630	25.157	30.619	0.00	0.00
ATOM	7622	CA	ALA	X	501	29.797	23.930	31.780	0.00	0.00
ATOM	7623	HA	ALA	X	501	30.582	24.393	32.378	0.00	0.00
ATOM	7624	CB	ALA	X	501	28.594	24.136	32.683	0.00	0.00
ATOM	7625	HB1	ALA	X	501	28.324	25.180	32.844	0.00	0.00
ATOM	7626	HB2	ALA	X	501	27.698	23.754	32.195	0.00	0.00
ATOM	7627	HB3	ALA	X	501	28.606	23.651	33.659	0.00	0.00
ATOM	7628	C	ALA	X	501	30.069	22.453	31.415	0.00	0.00
ATOM	7629	O	ALA	X	501	30.618	21.724	32.206	0.00	0.00
ATOM	7630	N	GLY	X	502	29.640	22.083	30.195	0.00	0.00
ATOM	7631	H	GLY	X	502	29.100	22.732	29.642	0.00	0.00
ATOM	7632	CA	GLY	X	502	29.929	20.751	29.636	0.00	0.00
ATOM	7633	HA2	GLY	X	502	29.956	20.014	30.433	0.00	0.00
ATOM	7634	HA3	GLY	X	502	29.110	20.628	28.925	0.00	0.00
ATOM	7635	C	GLY	X	502	31.132	20.682	28.658	0.00	0.00
ATOM	7636	O	GLY	X	502	31.971	19.779	28.806	0.00	0.00
ATOM	7637	N	ALA	X	503	31.300	21.677	27.763	0.00	0.00

ATOM	7638	H	ALA	X	503	30.583	22.378	27.641	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.481	21.684	26.874	0.00	0.00
ATOM	7640	HA	ALA	X	503	32.740	20.645	26.667	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.017	22.287	25.547	0.00	0.00
ATOM	7642	HB1	ALA	X	503	31.128	21.803	25.143	0.00	0.00
ATOM	7643	HB2	ALA	X	503	31.784	23.338	25.717	0.00	0.00
ATOM	7644	HB3	ALA	X	503	32.896	22.256	24.903	0.00	0.00
ATOM	7645	C	ALA	X	503	33.814	22.352	27.413	0.00	0.00
ATOM	7646	O	ALA	X	503	34.887	21.985	26.998	0.00	0.00
ATOM	7647	N	GLN	X	504	33.522	23.313	28.320	0.00	0.00
ATOM	7648	H	GLN	X	504	32.557	23.484	28.563	0.00	0.00
ATOM	7649	CA	GLN	X	504	34.483	23.929	29.172	0.00	0.00
ATOM	7650	HA	GLN	X	504	33.992	24.806	29.594	0.00	0.00
ATOM	7651	CB	GLN	X	504	35.017	22.911	30.211	0.00	0.00
ATOM	7652	HB2	GLN	X	504	35.460	22.038	29.732	0.00	0.00
ATOM	7653	HB3	GLN	X	504	35.794	23.348	30.838	0.00	0.00
ATOM	7654	CG	GLN	X	504	33.856	22.541	31.168	0.00	0.00
ATOM	7655	HG2	GLN	X	504	33.510	23.450	31.659	0.00	0.00
ATOM	7656	HG3	GLN	X	504	33.044	22.177	30.538	0.00	0.00
ATOM	7657	CD	GLN	X	504	34.302	21.454	32.125	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.475	21.125	32.428	0.00	0.00
ATOM	7659	NE2	GLN	X	504	33.352	20.958	32.834	0.00	0.00
ATOM	7660	HE21	GLN	X	504	33.622	20.471	33.676	0.00	0.00
ATOM	7661	HE22	GLN	X	504	32.407	21.204	32.575	0.00	0.00
ATOM	7662	C	GLN	X	504	35.619	24.523	28.336	0.00	0.00
ATOM	7663	O	GLN	X	504	36.771	24.167	28.627	0.00	0.00
ATOM	7664	N	GLN	X	505	35.333	25.474	27.396	0.00	0.00
ATOM	7665	H	GLN	X	505	34.374	25.663	27.142	0.00	0.00
ATOM	7666	CA	GLN	X	505	36.409	25.894	26.483	0.00	0.00
ATOM	7667	HA	GLN	X	505	37.062	25.024	26.553	0.00	0.00
ATOM	7668	CB	GLN	X	505	35.848	25.982	25.040	0.00	0.00
ATOM	7669	HB2	GLN	X	505	35.157	26.825	25.025	0.00	0.00
ATOM	7670	HB3	GLN	X	505	36.618	26.325	24.349	0.00	0.00
ATOM	7671	CG	GLN	X	505	35.386	24.619	24.568	0.00	0.00
ATOM	7672	HG2	GLN	X	505	36.244	23.990	24.335	0.00	0.00
ATOM	7673	HG3	GLN	X	505	34.622	24.312	25.283	0.00	0.00
ATOM	7674	CD	GLN	X	505	34.620	24.721	23.279	0.00	0.00
ATOM	7675	OE1	GLN	X	505	33.444	24.999	23.210	0.00	0.00
ATOM	7676	NE2	GLN	X	505	35.314	24.414	22.190	0.00	0.00
ATOM	7677	HE21	GLN	X	505	34.931	24.474	21.258	0.00	0.00
ATOM	7678	HE22	GLN	X	505	36.231	23.993	22.230	0.00	0.00
ATOM	7679	C	GLN	X	505	37.077	27.197	26.929	0.00	0.00
ATOM	7680	O	GLN	X	505	36.407	28.198	27.269	0.00	0.00
ATOM	7681	N	TYR	X	506	38.401	27.144	26.947	0.00	0.00
ATOM	7682	H	TYR	X	506	38.880	26.354	26.538	0.00	0.00
ATOM	7683	CA	TYR	X	506	39.291	28.239	27.211	0.00	0.00
ATOM	7684	HA	TYR	X	506	38.709	29.147	27.370	0.00	0.00
ATOM	7685	CB	TYR	X	506	40.255	27.953	28.417	0.00	0.00
ATOM	7686	HB2	TYR	X	506	40.797	28.867	28.658	0.00	0.00
ATOM	7687	HB3	TYR	X	506	39.640	27.734	29.290	0.00	0.00
ATOM	7688	CG	TYR	X	506	41.298	26.880	28.359	0.00	0.00
ATOM	7689	CD1	TYR	X	506	40.910	25.536	28.481	0.00	0.00
ATOM	7690	HD1	TYR	X	506	39.848	25.394	28.617	0.00	0.00
ATOM	7691	CE1	TYR	X	506	41.779	24.469	28.469	0.00	0.00
ATOM	7692	HE1	TYR	X	506	41.398	23.459	28.505	0.00	0.00
ATOM	7693	CZ	TYR	X	506	43.142	24.747	28.229	0.00	0.00
ATOM	7694	OH	TYR	X	506	44.165	23.848	28.193	0.00	0.00
ATOM	7695	HH	TYR	X	506	43.895	22.944	28.370	0.00	0.00
ATOM	7696	CE2	TYR	X	506	43.510	26.094	28.076	0.00	0.00
ATOM	7697	HE2	TYR	X	506	44.575	26.211	27.941	0.00	0.00
ATOM	7698	CD2	TYR	X	506	42.635	27.208	28.191	0.00	0.00
ATOM	7699	HD2	TYR	X	506	42.916	28.227	27.966	0.00	0.00
ATOM	7700	C	TYR	X	506	40.216	28.523	26.004	0.00	0.00
ATOM	7701	O	TYR	X	506	40.345	27.683	25.139	0.00	0.00
ATOM	7702	N	VAL	X	507	40.759	29.715	26.031	0.00	0.00
ATOM	7703	H	VAL	X	507	40.443	30.336	26.762	0.00	0.00
ATOM	7704	CA	VAL	X	507	41.781	30.157	25.073	0.00	0.00
ATOM	7705	HA	VAL	X	507	41.691	29.358	24.337	0.00	0.00
ATOM	7706	CB	VAL	X	507	41.493	31.552	24.370	0.00	0.00
ATOM	7707	HB	VAL	X	507	42.244	31.641	23.586	0.00	0.00

ATOM	7708	CG1	VAL	X	507	40.143	31.493	23.606	0.00	0.00
ATOM	7709	HG11	VAL	X	507	39.383	31.393	24.380	0.00	0.00
ATOM	7710	HG12	VAL	X	507	39.916	32.483	23.211	0.00	0.00
ATOM	7711	HG13	VAL	X	507	40.132	30.681	22.879	0.00	0.00
ATOM	7712	CG2	VAL	X	507	41.611	32.695	25.379	0.00	0.00
ATOM	7713	HG21	VAL	X	507	42.661	32.740	25.668	0.00	0.00
ATOM	7714	HG22	VAL	X	507	41.231	33.629	24.964	0.00	0.00
ATOM	7715	HG23	VAL	X	507	41.099	32.538	26.329	0.00	0.00
ATOM	7716	C	VAL	X	507	43.266	30.136	25.592	0.00	0.00
ATOM	7717	O	VAL	X	507	43.537	30.455	26.747	0.00	0.00
ATOM	7718	N	SER	X	508	44.189	29.878	24.746	0.00	0.00
ATOM	7719	H	SER	X	508	43.912	29.682	23.795	0.00	0.00
ATOM	7720	CA	SER	X	508	45.584	30.207	24.830	0.00	0.00
ATOM	7721	HA	SER	X	508	45.897	30.166	25.873	0.00	0.00
ATOM	7722	CB	SER	X	508	46.298	29.195	23.929	0.00	0.00
ATOM	7723	HB2	SER	X	508	46.466	28.176	24.277	0.00	0.00
ATOM	7724	HB3	SER	X	508	45.733	29.103	23.002	0.00	0.00
ATOM	7725	OG	SER	X	508	47.589	29.667	23.506	0.00	0.00
ATOM	7726	HG	SER	X	508	48.241	29.309	24.112	0.00	0.00
ATOM	7727	C	SER	X	508	45.878	31.677	24.428	0.00	0.00
ATOM	7728	O	SER	X	508	45.785	32.056	23.309	0.00	0.00
ATOM	7729	N	LEU	X	509	46.263	32.505	25.360	0.00	0.00
ATOM	7730	H	LEU	X	509	46.268	32.260	26.339	0.00	0.00
ATOM	7731	CA	LEU	X	509	46.697	33.863	24.999	0.00	0.00
ATOM	7732	HA	LEU	X	509	46.353	34.178	24.014	0.00	0.00
ATOM	7733	CB	LEU	X	509	46.241	34.936	26.055	0.00	0.00
ATOM	7734	HB2	LEU	X	509	46.698	34.672	27.009	0.00	0.00
ATOM	7735	HB3	LEU	X	509	46.662	35.897	25.761	0.00	0.00
ATOM	7736	CG	LEU	X	509	44.700	35.010	26.165	0.00	0.00
ATOM	7737	HG	LEU	X	509	44.396	33.965	26.237	0.00	0.00
ATOM	7738	CD1	LEU	X	509	44.348	35.831	27.450	0.00	0.00
ATOM	7739	HD11	LEU	X	509	44.846	36.780	27.253	0.00	0.00
ATOM	7740	HD12	LEU	X	509	43.277	35.944	27.622	0.00	0.00
ATOM	7741	HD13	LEU	X	509	44.858	35.456	28.337	0.00	0.00
ATOM	7742	CD2	LEU	X	509	44.017	35.676	24.936	0.00	0.00
ATOM	7743	HD21	LEU	X	509	44.475	36.621	24.643	0.00	0.00
ATOM	7744	HD22	LEU	X	509	44.177	35.205	23.966	0.00	0.00
ATOM	7745	HD23	LEU	X	509	42.968	35.903	25.129	0.00	0.00
ATOM	7746	C	LEU	X	509	48.228	33.892	24.951	0.00	0.00
ATOM	7747	O	LEU	X	509	48.885	33.455	25.844	0.00	0.00
ATOM	7748	N	ASP	X	510	48.779	34.353	23.810	0.00	0.00
ATOM	7749	H	ASP	X	510	48.140	34.672	23.095	0.00	0.00
ATOM	7750	CA	ASP	X	510	50.139	34.279	23.305	0.00	0.00
ATOM	7751	HA	ASP	X	510	50.854	34.593	24.065	0.00	0.00
ATOM	7752	CB	ASP	X	510	50.383	32.759	23.036	0.00	0.00
ATOM	7753	HB2	ASP	X	510	50.426	32.254	24.002	0.00	0.00
ATOM	7754	HB3	ASP	X	510	49.508	32.375	22.513	0.00	0.00
ATOM	7755	CG	ASP	X	510	51.599	32.412	22.185	0.00	0.00
ATOM	7756	OD1	ASP	X	510	52.709	32.714	22.667	0.00	0.00
ATOM	7757	OD2	ASP	X	510	51.378	31.890	21.033	0.00	0.00
ATOM	7758	C	ASP	X	510	50.168	35.226	22.066	0.00	0.00
ATOM	7759	O	ASP	X	510	49.097	35.584	21.569	0.00	0.00
ATOM	7760	N	LEU	X	511	51.337	35.542	21.584	0.00	0.00
ATOM	7761	H	LEU	X	511	52.046	35.169	22.199	0.00	0.00
ATOM	7762	CA	LEU	X	511	51.539	36.411	20.476	0.00	0.00
ATOM	7763	HA	LEU	X	511	51.060	37.353	20.743	0.00	0.00
ATOM	7764	CB	LEU	X	511	53.047	36.456	20.122	0.00	0.00
ATOM	7765	HB2	LEU	X	511	53.381	35.464	19.818	0.00	0.00
ATOM	7766	HB3	LEU	X	511	53.181	37.083	19.240	0.00	0.00
ATOM	7767	CG	LEU	X	511	54.047	37.047	21.206	0.00	0.00
ATOM	7768	HG	LEU	X	511	53.901	36.549	22.164	0.00	0.00
ATOM	7769	CD1	LEU	X	511	55.396	37.014	20.598	0.00	0.00
ATOM	7770	HD11	LEU	X	511	55.360	37.594	19.676	0.00	0.00
ATOM	7771	HD12	LEU	X	511	56.184	37.439	21.220	0.00	0.00
ATOM	7772	HD13	LEU	X	511	55.667	35.974	20.411	0.00	0.00
ATOM	7773	CD2	LEU	X	511	53.627	38.498	21.473	0.00	0.00
ATOM	7774	HD21	LEU	X	511	52.582	38.488	21.783	0.00	0.00
ATOM	7775	HD22	LEU	X	511	54.288	38.899	22.241	0.00	0.00
ATOM	7776	HD23	LEU	X	511	53.827	39.104	20.589	0.00	0.00
ATOM	7777	C	LEU	X	511	50.771	35.945	19.190	0.00	0.00

ATOM	7778	O	LEU	X	511	50.455	36.743	18.299	0.00	0.00
ATOM	7779	N	ARG	X	512	50.572	34.620	19.042	0.00	0.00
ATOM	7780	H	ARG	X	512	50.831	34.089	19.861	0.00	0.00
ATOM	7781	CA	ARG	X	512	50.047	33.980	17.823	0.00	0.00
ATOM	7782	HA	ARG	X	512	50.459	34.533	16.978	0.00	0.00
ATOM	7783	CB	ARG	X	512	50.222	32.394	17.753	0.00	0.00
ATOM	7784	HB2	ARG	X	512	49.683	31.864	18.538	0.00	0.00
ATOM	7785	HB3	ARG	X	512	49.936	32.023	16.768	0.00	0.00
ATOM	7786	CG	ARG	X	512	51.681	32.081	17.881	0.00	0.00
ATOM	7787	HG2	ARG	X	512	52.255	32.408	17.013	0.00	0.00
ATOM	7788	HG3	ARG	X	512	52.060	32.555	18.786	0.00	0.00
ATOM	7789	CD	ARG	X	512	51.912	30.520	18.067	0.00	0.00
ATOM	7790	HD2	ARG	X	512	51.481	30.180	19.009	0.00	0.00
ATOM	7791	HD3	ARG	X	512	51.398	29.954	17.291	0.00	0.00
ATOM	7792	NE	ARG	X	512	53.336	30.076	18.204	0.00	0.00
ATOM	7793	HE	ARG	X	512	53.676	29.519	17.433	0.00	0.00
ATOM	7794	CZ	ARG	X	512	54.178	30.212	19.210	0.00	0.00
ATOM	7795	NH1	ARG	X	512	53.823	30.735	20.325	0.00	0.00
ATOM	7796	HH11	ARG	X	512	52.881	31.087	20.413	0.00	0.00
ATOM	7797	HH12	ARG	X	512	54.477	30.848	21.086	0.00	0.00
ATOM	7798	NH2	ARG	X	512	55.427	29.836	19.095	0.00	0.00
ATOM	7799	HH21	ARG	X	512	55.688	29.233	18.328	0.00	0.00
ATOM	7800	HH22	ARG	X	512	56.125	30.168	19.745	0.00	0.00
ATOM	7801	C	ARG	X	512	48.499	34.252	17.823	0.00	0.00
ATOM	7802	O	ARG	X	512	47.929	34.495	18.890	0.00	0.00
ATOM	7803	N	PRO	X	513	47.824	34.100	16.673	0.00	0.00
ATOM	7804	CD	PRO	X	513	48.303	34.065	15.301	0.00	0.00
ATOM	7805	HD2	PRO	X	513	49.048	33.273	15.228	0.00	0.00
ATOM	7806	HD3	PRO	X	513	48.774	35.004	15.009	0.00	0.00
ATOM	7807	CG	PRO	X	513	47.091	33.817	14.430	0.00	0.00
ATOM	7808	HG2	PRO	X	513	46.928	32.749	14.281	0.00	0.00
ATOM	7809	HG3	PRO	X	513	47.041	34.343	13.477	0.00	0.00
ATOM	7810	CB	PRO	X	513	45.983	34.287	15.332	0.00	0.00
ATOM	7811	HB2	PRO	X	513	45.107	33.686	15.090	0.00	0.00
ATOM	7812	HB3	PRO	X	513	45.683	35.313	15.119	0.00	0.00
ATOM	7813	CA	PRO	X	513	46.354	34.175	16.782	0.00	0.00
ATOM	7814	HA	PRO	X	513	46.122	35.116	17.280	0.00	0.00
ATOM	7815	C	PRO	X	513	45.735	32.995	17.599	0.00	0.00
ATOM	7816	O	PRO	X	513	46.401	31.942	17.679	0.00	0.00
ATOM	7817	N	LEU	X	514	44.466	33.189	18.035	0.00	0.00
ATOM	7818	H	LEU	X	514	44.048	34.104	17.946	0.00	0.00
ATOM	7819	CA	LEU	X	514	43.837	32.252	19.010	0.00	0.00
ATOM	7820	HA	LEU	X	514	44.497	32.287	19.876	0.00	0.00
ATOM	7821	CB	LEU	X	514	42.360	32.628	19.522	0.00	0.00
ATOM	7822	HB2	LEU	X	514	41.733	32.629	18.630	0.00	0.00
ATOM	7823	HB3	LEU	X	514	42.048	31.918	20.289	0.00	0.00
ATOM	7824	CG	LEU	X	514	42.168	34.064	20.138	0.00	0.00
ATOM	7825	HG	LEU	X	514	42.779	34.777	19.584	0.00	0.00
ATOM	7826	CD1	LEU	X	514	40.756	34.564	19.947	0.00	0.00
ATOM	7827	HD11	LEU	X	514	40.646	35.323	20.722	0.00	0.00
ATOM	7828	HD12	LEU	X	514	40.752	35.075	18.984	0.00	0.00
ATOM	7829	HD13	LEU	X	514	39.996	33.794	20.085	0.00	0.00
ATOM	7830	CD2	LEU	X	514	42.547	34.281	21.654	0.00	0.00
ATOM	7831	HD21	LEU	X	514	43.504	33.782	21.808	0.00	0.00
ATOM	7832	HD22	LEU	X	514	42.684	35.336	21.893	0.00	0.00
ATOM	7833	HD23	LEU	X	514	41.757	33.862	22.278	0.00	0.00
ATOM	7834	C	LEU	X	514	43.854	30.820	18.596	0.00	0.00
ATOM	7835	O	LEU	X	514	43.528	30.467	17.433	0.00	0.00
ATOM	7836	N	GLU	X	515	44.110	29.970	19.567	0.00	0.00
ATOM	7837	H	GLU	X	515	44.499	30.276	20.447	0.00	0.00
ATOM	7838	CA	GLU	X	515	43.882	28.534	19.522	0.00	0.00
ATOM	7839	HA	GLU	X	515	43.222	28.271	18.695	0.00	0.00
ATOM	7840	CB	GLU	X	515	45.244	27.804	19.375	0.00	0.00
ATOM	7841	HB2	GLU	X	515	45.664	28.067	18.404	0.00	0.00
ATOM	7842	HB3	GLU	X	515	45.820	28.112	20.247	0.00	0.00
ATOM	7843	CG	GLU	X	515	45.179	26.291	19.405	0.00	0.00
ATOM	7844	HG2	GLU	X	515	46.148	25.854	19.161	0.00	0.00
ATOM	7845	HG3	GLU	X	515	45.078	25.927	20.428	0.00	0.00
ATOM	7846	CD	GLU	X	515	44.209	25.750	18.304	0.00	0.00
ATOM	7847	OE1	GLU	X	515	42.932	25.682	18.519	0.00	0.00

ATOM	7848	OE2	GLU	X	515	44.665	25.410	17.212	0.00	0.00
ATOM	7849	C	GLU	X	515	43.066	28.209	20.754	0.00	0.00
ATOM	7850	O	GLU	X	515	43.306	28.864	21.816	0.00	0.00
ATOM	7851	N	VAL	X	516	42.140	27.360	20.648	0.00	0.00
ATOM	7852	H	VAL	X	516	42.189	26.772	19.828	0.00	0.00
ATOM	7853	CA	VAL	X	516	41.082	27.112	21.620	0.00	0.00
ATOM	7854	HA	VAL	X	516	41.187	27.792	22.466	0.00	0.00
ATOM	7855	CB	VAL	X	516	39.687	27.254	21.023	0.00	0.00
ATOM	7856	HB	VAL	X	516	39.589	26.471	20.271	0.00	0.00
ATOM	7857	CG1	VAL	X	516	38.542	27.010	21.987	0.00	0.00
ATOM	7858	HG11	VAL	X	516	38.773	26.109	22.555	0.00	0.00
ATOM	7859	HG12	VAL	X	516	38.598	27.780	22.757	0.00	0.00
ATOM	7860	HG13	VAL	X	516	37.585	27.104	21.472	0.00	0.00
ATOM	7861	CG2	VAL	X	516	39.518	28.616	20.433	0.00	0.00
ATOM	7862	HG21	VAL	X	516	38.560	28.680	19.918	0.00	0.00
ATOM	7863	HG22	VAL	X	516	39.458	29.348	21.238	0.00	0.00
ATOM	7864	HG23	VAL	X	516	40.351	28.890	19.785	0.00	0.00
ATOM	7865	C	VAL	X	516	41.270	25.728	22.132	0.00	0.00
ATOM	7866	O	VAL	X	516	41.481	24.765	21.270	0.00	0.00
ATOM	7867	N	ARG	X	517	41.339	25.557	23.397	0.00	0.00
ATOM	7868	H	ARG	X	517	41.196	26.423	23.896	0.00	0.00
ATOM	7869	CA	ARG	X	517	41.499	24.241	24.056	0.00	0.00
ATOM	7870	HA	ARG	X	517	41.691	23.401	23.388	0.00	0.00
ATOM	7871	CB	ARG	X	517	42.797	24.386	24.922	0.00	0.00
ATOM	7872	HB2	ARG	X	517	42.672	25.225	25.607	0.00	0.00
ATOM	7873	HB3	ARG	X	517	42.870	23.456	25.486	0.00	0.00
ATOM	7874	CG	ARG	X	517	44.075	24.654	24.136	0.00	0.00
ATOM	7875	HG2	ARG	X	517	44.128	23.898	23.353	0.00	0.00
ATOM	7876	HG3	ARG	X	517	43.943	25.654	23.723	0.00	0.00
ATOM	7877	CD	ARG	X	517	45.390	24.650	24.916	0.00	0.00
ATOM	7878	HD2	ARG	X	517	45.328	25.308	25.783	0.00	0.00
ATOM	7879	HD3	ARG	X	517	45.435	23.675	25.401	0.00	0.00
ATOM	7880	NE	ARG	X	517	46.529	25.067	24.094	0.00	0.00
ATOM	7881	HE	ARG	X	517	46.525	24.684	23.160	0.00	0.00
ATOM	7882	CZ	ARG	X	517	47.568	25.718	24.488	0.00	0.00
ATOM	7883	NH1	ARG	X	517	47.839	26.126	25.686	0.00	0.00
ATOM	7884	HH11	ARG	X	517	47.263	25.937	26.495	0.00	0.00
ATOM	7885	HH12	ARG	X	517	48.546	26.812	25.908	0.00	0.00
ATOM	7886	NH2	ARG	X	517	48.474	25.921	23.576	0.00	0.00
ATOM	7887	HH21	ARG	X	517	48.290	25.612	22.632	0.00	0.00
ATOM	7888	HH22	ARG	X	517	49.342	26.361	23.846	0.00	0.00
ATOM	7889	C	ARG	X	517	40.177	23.972	24.784	0.00	0.00
ATOM	7890	O	ARG	X	517	39.619	24.905	25.336	0.00	0.00
ATOM	7891	N	ARG	X	518	39.676	22.692	24.812	0.00	0.00
ATOM	7892	H	ARG	X	518	40.210	21.916	24.447	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.552	22.265	25.593	0.00	0.00
ATOM	7894	HA	ARG	X	518	38.091	23.194	25.929	0.00	0.00
ATOM	7895	CB	ARG	X	518	37.569	21.359	24.792	0.00	0.00
ATOM	7896	HB2	ARG	X	518	36.597	21.331	25.284	0.00	0.00
ATOM	7897	HB3	ARG	X	518	37.455	21.932	23.871	0.00	0.00
ATOM	7898	CG	ARG	X	518	38.027	19.906	24.507	0.00	0.00
ATOM	7899	HG2	ARG	X	518	39.041	19.921	24.110	0.00	0.00
ATOM	7900	HG3	ARG	X	518	38.161	19.443	25.485	0.00	0.00
ATOM	7901	CD	ARG	X	518	37.179	19.113	23.576	0.00	0.00
ATOM	7902	HD2	ARG	X	518	36.263	18.847	24.104	0.00	0.00
ATOM	7903	HD3	ARG	X	518	36.937	19.737	22.716	0.00	0.00
ATOM	7904	NE	ARG	X	518	37.969	17.994	23.066	0.00	0.00
ATOM	7905	HE	ARG	X	518	38.815	18.340	22.636	0.00	0.00
ATOM	7906	CZ	ARG	X	518	37.790	16.658	23.158	0.00	0.00
ATOM	7907	NH1	ARG	X	518	36.795	16.103	23.909	0.00	0.00
ATOM	7908	HH11	ARG	X	518	36.099	16.676	24.364	0.00	0.00
ATOM	7909	HH12	ARG	X	518	36.621	15.110	23.974	0.00	0.00
ATOM	7910	NH2	ARG	X	518	38.625	15.867	22.473	0.00	0.00
ATOM	7911	HH21	ARG	X	518	39.477	16.188	22.037	0.00	0.00
ATOM	7912	HH22	ARG	X	518	38.393	14.885	22.527	0.00	0.00
ATOM	7913	C	ARG	X	518	38.864	21.458	26.898	0.00	0.00
ATOM	7914	O	ARG	X	518	39.926	20.815	27.049	0.00	0.00
ATOM	7915	N	GLY	X	519	37.956	21.521	27.849	0.00	0.00
ATOM	7916	H	GLY	X	519	37.116	22.072	27.745	0.00	0.00
ATOM	7917	CA	GLY	X	519	38.081	20.727	29.054	0.00	0.00

ATOM	7918	HA2	GLY	X	519	37.150	20.719	29.547	0.00	0.00
ATOM	7919	HA3	GLY	X	519	38.429	19.813	28.726	0.00	0.00
ATOM	7920	C	GLY	X	519	39.021	21.350	30.069	0.00	0.00
ATOM	7921	O	GLY	X	519	40.021	20.670	30.437	0.00	0.00
ATOM	7922	N	LEU	X	520	38.782	22.624	30.501	0.00	0.00
ATOM	7923	H	LEU	X	520	37.915	23.023	30.170	0.00	0.00
ATOM	7924	CA	LEU	X	520	39.616	23.417	31.404	0.00	0.00
ATOM	7925	HA	LEU	X	520	40.526	23.639	30.847	0.00	0.00
ATOM	7926	CB	LEU	X	520	38.987	24.794	31.821	0.00	0.00
ATOM	7927	HB2	LEU	X	520	38.679	25.348	30.934	0.00	0.00
ATOM	7928	HB3	LEU	X	520	38.070	24.663	32.397	0.00	0.00
ATOM	7929	CG	LEU	X	520	39.861	25.613	32.805	0.00	0.00
ATOM	7930	HG	LEU	X	520	40.132	25.087	33.721	0.00	0.00
ATOM	7931	CD1	LEU	X	520	41.111	25.989	32.118	0.00	0.00
ATOM	7932	HD11	LEU	X	520	41.001	26.607	31.227	0.00	0.00
ATOM	7933	HD12	LEU	X	520	41.744	26.569	32.790	0.00	0.00
ATOM	7934	HD13	LEU	X	520	41.680	25.104	31.834	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.148	26.867	33.190	0.00	0.00
ATOM	7936	HD21	LEU	X	520	39.768	27.368	33.933	0.00	0.00
ATOM	7937	HD22	LEU	X	520	39.081	27.574	32.363	0.00	0.00
ATOM	7938	HD23	LEU	X	520	38.133	26.724	33.560	0.00	0.00
ATOM	7939	C	LEU	X	520	40.131	22.660	32.651	0.00	0.00
ATOM	7940	O	LEU	X	520	39.347	22.454	33.564	0.00	0.00
ATOM	7941	N	ARG	X	521	41.382	22.235	32.642	0.00	0.00
ATOM	7942	H	ARG	X	521	41.945	22.366	31.814	0.00	0.00
ATOM	7943	CA	ARG	X	521	42.026	21.626	33.776	0.00	0.00
ATOM	7944	HA	ARG	X	521	42.974	21.187	33.464	0.00	0.00
ATOM	7945	CB	ARG	X	521	42.444	22.760	34.726	0.00	0.00
ATOM	7946	HB2	ARG	X	521	42.518	23.757	34.291	0.00	0.00
ATOM	7947	HB3	ARG	X	521	41.693	22.798	35.515	0.00	0.00
ATOM	7948	CG	ARG	X	521	43.816	22.385	35.388	0.00	0.00
ATOM	7949	HG2	ARG	X	521	43.741	22.855	36.368	0.00	0.00
ATOM	7950	HG3	ARG	X	521	43.822	21.296	35.427	0.00	0.00
ATOM	7951	CD	ARG	X	521	45.167	22.851	34.721	0.00	0.00
ATOM	7952	HD2	ARG	X	521	45.259	22.381	33.742	0.00	0.00
ATOM	7953	HD3	ARG	X	521	45.229	23.927	34.556	0.00	0.00
ATOM	7954	NE	ARG	X	521	46.242	22.517	35.704	0.00	0.00
ATOM	7955	HE	ARG	X	521	46.058	22.653	36.688	0.00	0.00
ATOM	7956	CZ	ARG	X	521	47.362	21.809	35.409	0.00	0.00
ATOM	7957	NH1	ARG	X	521	47.836	21.703	34.194	0.00	0.00
ATOM	7958	HH11	ARG	X	521	47.389	22.237	33.462	0.00	0.00
ATOM	7959	HH12	ARG	X	521	48.718	21.265	33.968	0.00	0.00
ATOM	7960	NH2	ARG	X	521	48.012	21.256	36.467	0.00	0.00
ATOM	7961	HH21	ARG	X	521	47.839	21.581	37.407	0.00	0.00
ATOM	7962	HH22	ARG	X	521	48.809	20.645	36.350	0.00	0.00
ATOM	7963	C	ARG	X	521	41.270	20.434	34.391	0.00	0.00
ATOM	7964	O	ARG	X	521	41.302	20.192	35.594	0.00	0.00
ATOM	7965	N	ALA	X	522	40.592	19.670	33.517	0.00	0.00
ATOM	7966	H	ALA	X	522	40.771	19.768	32.528	0.00	0.00
ATOM	7967	CA	ALA	X	522	39.321	18.878	33.853	0.00	0.00
ATOM	7968	HA	ALA	X	522	38.824	19.357	34.697	0.00	0.00
ATOM	7969	CB	ALA	X	522	38.363	18.984	32.692	0.00	0.00
ATOM	7970	HB1	ALA	X	522	38.852	18.413	31.903	0.00	0.00
ATOM	7971	HB2	ALA	X	522	37.401	18.574	33.000	0.00	0.00
ATOM	7972	HB3	ALA	X	522	38.159	19.996	32.342	0.00	0.00
ATOM	7973	C	ALA	X	522	39.571	17.470	34.378	0.00	0.00
ATOM	7974	O	ALA	X	522	38.611	16.884	34.885	0.00	0.00
ATOM	7975	N	GLN	X	523	40.808	17.023	34.261	0.00	0.00
ATOM	7976	H	GLN	X	523	41.620	17.580	34.037	0.00	0.00
ATOM	7977	CA	GLN	X	523	41.193	15.769	34.823	0.00	0.00
ATOM	7978	HA	GLN	X	523	40.254	15.222	34.911	0.00	0.00
ATOM	7979	CB	GLN	X	523	42.067	14.889	33.928	0.00	0.00
ATOM	7980	HB2	GLN	X	523	42.982	15.433	33.692	0.00	0.00
ATOM	7981	HB3	GLN	X	523	42.283	13.990	34.506	0.00	0.00
ATOM	7982	CG	GLN	X	523	41.424	14.620	32.520	0.00	0.00
ATOM	7983	HG2	GLN	X	523	42.067	13.939	31.962	0.00	0.00
ATOM	7984	HG3	GLN	X	523	40.464	14.109	32.595	0.00	0.00
ATOM	7985	CD	GLN	X	523	41.306	15.806	31.614	0.00	0.00
ATOM	7986	OE1	GLN	X	523	42.170	16.646	31.640	0.00	0.00
ATOM	7987	NE2	GLN	X	523	40.365	15.918	30.789	0.00	0.00

ATOM	7988	HE21	GLN	X	523	40.422	16.581	30.030	0.00	0.00
ATOM	7989	HE22	GLN	X	523	39.451	15.502	30.893	0.00	0.00
ATOM	7990	C	GLN	X	523	41.737	15.957	36.240	0.00	0.00
ATOM	7991	O	GLN	X	523	41.226	15.398	37.205	0.00	0.00
ATOM	7992	N	ALA	X	524	42.592	16.976	36.424	0.00	0.00
ATOM	7993	H	ALA	X	524	42.881	17.404	35.557	0.00	0.00
ATOM	7994	CA	ALA	X	524	43.089	17.454	37.715	0.00	0.00
ATOM	7995	HA	ALA	X	524	43.514	16.653	38.321	0.00	0.00
ATOM	7996	CB	ALA	X	524	44.270	18.320	37.385	0.00	0.00
ATOM	7997	HB1	ALA	X	524	44.780	18.650	38.290	0.00	0.00
ATOM	7998	HB2	ALA	X	524	44.914	17.784	36.687	0.00	0.00
ATOM	7999	HB3	ALA	X	524	43.898	19.193	36.850	0.00	0.00
ATOM	8000	C	ALA	X	524	42.029	18.092	38.638	0.00	0.00
ATOM	8001	O	ALA	X	524	41.868	17.639	39.791	0.00	0.00
ATOM	8002	N	CYX	X	525	41.214	19.060	38.173	0.00	0.00
ATOM	8003	H	CYX	X	525	41.428	19.336	37.225	0.00	0.00
ATOM	8004	CA	CYX	X	525	40.139	19.605	38.962	0.00	0.00
ATOM	8005	HA	CYX	X	525	40.638	19.872	39.893	0.00	0.00
ATOM	8006	CB	CYX	X	525	39.732	21.005	38.436	0.00	0.00
ATOM	8007	HB2	CYX	X	525	39.307	20.900	37.438	0.00	0.00
ATOM	8008	HB3	CYX	X	525	38.979	21.437	39.096	0.00	0.00
ATOM	8009	SG	CYX	X	525	41.206	22.005	38.199	0.00	0.00
ATOM	8010	C	CYX	X	525	39.004	18.618	39.223	0.00	0.00
ATOM	8011	O	CYX	X	525	38.400	18.781	40.276	0.00	0.00
ATOM	8012	N	ALA	X	526	38.767	17.507	38.441	0.00	0.00
ATOM	8013	H	ALA	X	526	39.337	17.212	37.661	0.00	0.00
ATOM	8014	CA	ALA	X	526	37.838	16.460	38.969	0.00	0.00
ATOM	8015	HA	ALA	X	526	36.901	16.837	39.378	0.00	0.00
ATOM	8016	CB	ALA	X	526	37.390	15.676	37.765	0.00	0.00
ATOM	8017	HB1	ALA	X	526	38.267	15.340	37.212	0.00	0.00
ATOM	8018	HB2	ALA	X	526	36.703	14.846	37.931	0.00	0.00
ATOM	8019	HB3	ALA	X	526	36.942	16.326	37.013	0.00	0.00
ATOM	8020	C	ALA	X	526	38.432	15.545	40.040	0.00	0.00
ATOM	8021	O	ALA	X	526	37.697	15.050	40.820	0.00	0.00
ATOM	8022	N	PHE	X	527	39.777	15.528	40.017	0.00	0.00
ATOM	8023	H	PHE	X	527	40.276	15.854	39.202	0.00	0.00
ATOM	8024	CA	PHE	X	527	40.455	14.870	41.100	0.00	0.00
ATOM	8025	HA	PHE	X	527	40.064	13.862	41.245	0.00	0.00
ATOM	8026	CB	PHE	X	527	41.971	14.760	40.841	0.00	0.00
ATOM	8027	HB2	PHE	X	527	42.063	14.086	39.990	0.00	0.00
ATOM	8028	HB3	PHE	X	527	42.557	15.633	40.555	0.00	0.00
ATOM	8029	CG	PHE	X	527	42.804	14.120	41.956	0.00	0.00
ATOM	8030	CD1	PHE	X	527	42.677	12.803	42.319	0.00	0.00
ATOM	8031	HD1	PHE	X	527	42.085	12.129	41.718	0.00	0.00
ATOM	8032	CE1	PHE	X	527	43.512	12.296	43.425	0.00	0.00
ATOM	8033	HE1	PHE	X	527	43.401	11.266	43.728	0.00	0.00
ATOM	8034	CZ	PHE	X	527	44.415	13.143	44.094	0.00	0.00
ATOM	8035	HZ	PHE	X	527	45.204	12.723	44.702	0.00	0.00
ATOM	8036	CE2	PHE	X	527	44.480	14.473	43.663	0.00	0.00
ATOM	8037	HE2	PHE	X	527	45.228	15.092	44.137	0.00	0.00
ATOM	8038	CD2	PHE	X	527	43.676	14.949	42.622	0.00	0.00
ATOM	8039	HD2	PHE	X	527	43.798	15.972	42.300	0.00	0.00
ATOM	8040	C	PHE	X	527	40.217	15.649	42.402	0.00	0.00
ATOM	8041	O	PHE	X	527	39.792	15.070	43.425	0.00	0.00
ATOM	8042	N	TRP	X	528	40.506	16.902	42.343	0.00	0.00
ATOM	8043	H	TRP	X	528	40.852	17.305	41.484	0.00	0.00
ATOM	8044	CA	TRP	X	528	40.415	17.757	43.502	0.00	0.00
ATOM	8045	HA	TRP	X	528	41.035	17.375	44.313	0.00	0.00
ATOM	8046	CB	TRP	X	528	41.076	19.119	43.121	0.00	0.00
ATOM	8047	HB2	TRP	X	528	40.555	19.339	42.190	0.00	0.00
ATOM	8048	HB3	TRP	X	528	40.872	19.920	43.831	0.00	0.00
ATOM	8049	CG	TRP	X	528	42.579	19.039	42.951	0.00	0.00
ATOM	8050	CD1	TRP	X	528	43.338	19.520	41.947	0.00	0.00
ATOM	8051	HD1	TRP	X	528	42.933	19.849	41.001	0.00	0.00
ATOM	8052	NE1	TRP	X	528	44.719	19.471	42.196	0.00	0.00
ATOM	8053	HE1	TRP	X	528	45.524	19.481	41.587	0.00	0.00
ATOM	8054	CE2	TRP	X	528	44.851	19.011	43.484	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	46.036	18.904	44.275	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	46.956	19.222	43.806	0.00	0.00
ATOM	8057	CH2	TRP	X	528	45.833	18.359	45.585	0.00	0.00

ATOM	8058	HH2	TRP	X	528	46.718	18.129	46.160	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	44.626	17.973	46.061	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	44.573	17.492	47.026	0.00	0.00
ATOM	8061	CE3	TRP	X	528	43.475	18.115	45.263	0.00	0.00
ATOM	8062	HE3	TRP	X	528	42.559	17.739	45.695	0.00	0.00
ATOM	8063	CD2	TRP	X	528	43.535	18.651	43.944	0.00	0.00
ATOM	8064	C	TRP	X	528	39.014	17.999	44.011	0.00	0.00
ATOM	8065	O	TRP	X	528	38.816	18.141	45.195	0.00	0.00
ATOM	8066	N	ASN	X	529	38.051	18.139	43.098	0.00	0.00
ATOM	8067	H	ASN	X	529	38.421	18.155	42.158	0.00	0.00
ATOM	8068	CA	ASN	X	529	36.667	18.492	43.421	0.00	0.00
ATOM	8069	HA	ASN	X	529	36.641	19.055	44.355	0.00	0.00
ATOM	8070	CB	ASN	X	529	36.080	19.391	42.292	0.00	0.00
ATOM	8071	HB2	ASN	X	529	35.854	18.899	41.346	0.00	0.00
ATOM	8072	HB3	ASN	X	529	35.164	19.798	42.722	0.00	0.00
ATOM	8073	CG	ASN	X	529	36.751	20.673	41.948	0.00	0.00
ATOM	8074	OD1	ASN	X	529	36.589	21.172	40.823	0.00	0.00
ATOM	8075	ND2	ASN	X	529	37.435	21.299	42.863	0.00	0.00
ATOM	8076	HD21	ASN	X	529	38.083	22.036	42.624	0.00	0.00
ATOM	8077	HD22	ASN	X	529	37.474	20.840	43.762	0.00	0.00
ATOM	8078	C	ASN	X	529	35.730	17.320	43.726	0.00	0.00
ATOM	8079	O	ASN	X	529	34.664	17.559	44.315	0.00	0.00
ATOM	8080	N	ARG	X	530	36.147	16.099	43.348	0.00	0.00
ATOM	8081	H	ARG	X	530	36.969	16.033	42.764	0.00	0.00
ATOM	8082	CA	ARG	X	530	35.287	14.916	43.617	0.00	0.00
ATOM	8083	HA	ARG	X	530	34.514	15.198	44.332	0.00	0.00
ATOM	8084	CB	ARG	X	530	34.487	14.385	42.368	0.00	0.00
ATOM	8085	HB2	ARG	X	530	35.201	13.884	41.713	0.00	0.00
ATOM	8086	HB3	ARG	X	530	33.729	13.732	42.800	0.00	0.00
ATOM	8087	CG	ARG	X	530	33.699	15.369	41.508	0.00	0.00
ATOM	8088	HG2	ARG	X	530	32.987	15.933	42.111	0.00	0.00
ATOM	8089	HG3	ARG	X	530	34.433	16.056	41.086	0.00	0.00
ATOM	8090	CD	ARG	X	530	32.906	14.713	40.404	0.00	0.00
ATOM	8091	HD2	ARG	X	530	32.766	15.443	39.606	0.00	0.00
ATOM	8092	HD3	ARG	X	530	33.486	13.882	40.003	0.00	0.00
ATOM	8093	NE	ARG	X	530	31.671	14.052	40.838	0.00	0.00
ATOM	8094	HE	ARG	X	530	31.348	14.363	41.743	0.00	0.00
ATOM	8095	CZ	ARG	X	530	31.024	13.057	40.324	0.00	0.00
ATOM	8096	NH1	ARG	X	530	31.429	12.427	39.269	0.00	0.00
ATOM	8097	HH11	ARG	X	530	32.212	12.723	38.703	0.00	0.00
ATOM	8098	HH12	ARG	X	530	30.841	11.720	38.850	0.00	0.00
ATOM	8099	NH2	ARG	X	530	29.927	12.720	40.893	0.00	0.00
ATOM	8100	HH21	ARG	X	530	29.447	13.193	41.644	0.00	0.00
ATOM	8101	HH22	ARG	X	530	29.326	11.994	40.529	0.00	0.00
ATOM	8102	C	ARG	X	530	35.986	13.778	44.335	0.00	0.00
ATOM	8103	O	ARG	X	530	35.556	13.343	45.419	0.00	0.00
ATOM	8104	N	PHE	X	531	37.106	13.240	43.776	0.00	0.00
ATOM	8105	H	PHE	X	531	37.454	13.619	42.906	0.00	0.00
ATOM	8106	CA	PHE	X	531	37.834	12.086	44.323	0.00	0.00
ATOM	8107	HA	PHE	X	531	37.088	11.295	44.398	0.00	0.00
ATOM	8108	CB	PHE	X	531	38.903	11.579	43.403	0.00	0.00
ATOM	8109	HB2	PHE	X	531	38.560	11.541	42.369	0.00	0.00
ATOM	8110	HB3	PHE	X	531	39.747	12.251	43.248	0.00	0.00
ATOM	8111	CG	PHE	X	531	39.467	10.259	43.794	0.00	0.00
ATOM	8112	CD1	PHE	X	531	40.693	10.123	44.487	0.00	0.00
ATOM	8113	HD1	PHE	X	531	41.251	10.965	44.868	0.00	0.00
ATOM	8114	CE1	PHE	X	531	41.044	8.869	44.929	0.00	0.00
ATOM	8115	HE1	PHE	X	531	41.933	8.801	45.539	0.00	0.00
ATOM	8116	CZ	PHE	X	531	40.312	7.712	44.571	0.00	0.00
ATOM	8117	HZ	PHE	X	531	40.688	6.786	44.981	0.00	0.00
ATOM	8118	CE2	PHE	X	531	39.205	7.820	43.847	0.00	0.00
ATOM	8119	HE2	PHE	X	531	38.659	6.919	43.610	0.00	0.00
ATOM	8120	CD2	PHE	X	531	38.752	9.094	43.452	0.00	0.00
ATOM	8121	HD2	PHE	X	531	37.750	9.263	43.085	0.00	0.00
ATOM	8122	C	PHE	X	531	38.464	12.394	45.667	0.00	0.00
ATOM	8123	O	PHE	X	531	38.442	11.607	46.582	0.00	0.00
ATOM	8124	N	LEU	X	532	39.175	13.524	45.775	0.00	0.00
ATOM	8125	H	LEU	X	532	39.338	14.087	44.953	0.00	0.00
ATOM	8126	CA	LEU	X	532	39.912	13.939	46.983	0.00	0.00
ATOM	8127	HA	LEU	X	532	40.549	13.075	47.174	0.00	0.00

ATOM	8128	CB	LEU	X	532	41.003	14.998	46.560	0.00	0.00
ATOM	8129	HB2	LEU	X	532	41.376	14.855	45.545	0.00	0.00
ATOM	8130	HB3	LEU	X	532	40.363	15.879	46.563	0.00	0.00
ATOM	8131	CG	LEU	X	532	42.172	15.230	47.567	0.00	0.00
ATOM	8132	HG	LEU	X	532	42.790	15.918	46.990	0.00	0.00
ATOM	8133	CD1	LEU	X	532	41.847	15.910	48.830	0.00	0.00
ATOM	8134	HD11	LEU	X	532	41.071	15.440	49.434	0.00	0.00
ATOM	8135	HD12	LEU	X	532	42.701	16.011	49.500	0.00	0.00
ATOM	8136	HD13	LEU	X	532	41.470	16.878	48.499	0.00	0.00
ATOM	8137	CD2	LEU	X	532	42.956	13.959	47.873	0.00	0.00
ATOM	8138	HD21	LEU	X	532	43.954	14.206	48.233	0.00	0.00
ATOM	8139	HD22	LEU	X	532	42.459	13.435	48.690	0.00	0.00
ATOM	8140	HD23	LEU	X	532	42.940	13.255	47.041	0.00	0.00
ATOM	8141	C	LEU	X	532	39.087	14.255	48.317	0.00	0.00
ATOM	8142	O	LEU	X	532	39.232	13.571	49.294	0.00	0.00
ATOM	8143	N	PRO	X	533	37.998	15.141	48.240	0.00	0.00
ATOM	8144	CD	PRO	X	533	37.549	15.784	47.001	0.00	0.00
ATOM	8145	HD2	PRO	X	533	37.578	15.119	46.138	0.00	0.00
ATOM	8146	HD3	PRO	X	533	38.135	16.685	46.819	0.00	0.00
ATOM	8147	CG	PRO	X	533	36.060	16.097	47.446	0.00	0.00
ATOM	8148	HG2	PRO	X	533	35.491	15.205	47.185	0.00	0.00
ATOM	8149	HG3	PRO	X	533	35.749	17.017	46.950	0.00	0.00
ATOM	8150	CB	PRO	X	533	35.948	16.283	48.936	0.00	0.00
ATOM	8151	HB2	PRO	X	533	34.992	15.977	49.360	0.00	0.00
ATOM	8152	HB3	PRO	X	533	36.248	17.234	49.377	0.00	0.00
ATOM	8153	CA	PRO	X	533	37.080	15.320	49.388	0.00	0.00
ATOM	8154	HA	PRO	X	533	37.680	15.594	50.257	0.00	0.00
ATOM	8155	C	PRO	X	533	36.508	13.915	49.752	0.00	0.00
ATOM	8156	O	PRO	X	533	36.282	13.703	50.923	0.00	0.00
ATOM	8157	N	LYS	X	534	36.226	13.011	48.806	0.00	0.00
ATOM	8158	H	LYS	X	534	36.278	13.278	47.834	0.00	0.00
ATOM	8159	CA	LYS	X	534	35.672	11.650	49.127	0.00	0.00
ATOM	8160	HA	LYS	X	534	35.047	11.671	50.019	0.00	0.00
ATOM	8161	CB	LYS	X	534	34.810	11.171	47.906	0.00	0.00
ATOM	8162	HB2	LYS	X	534	34.167	11.954	47.504	0.00	0.00
ATOM	8163	HB3	LYS	X	534	35.548	11.223	47.106	0.00	0.00
ATOM	8164	CG	LYS	X	534	34.191	9.783	47.846	0.00	0.00
ATOM	8165	HG2	LYS	X	534	33.687	9.704	46.883	0.00	0.00
ATOM	8166	HG3	LYS	X	534	34.914	8.972	47.942	0.00	0.00
ATOM	8167	CD	LYS	X	534	33.172	9.680	48.947	0.00	0.00
ATOM	8168	HD2	LYS	X	534	32.591	8.768	48.806	0.00	0.00
ATOM	8169	HD3	LYS	X	534	33.588	9.628	49.953	0.00	0.00
ATOM	8170	CE	LYS	X	534	32.104	10.815	48.948	0.00	0.00
ATOM	8171	HE2	LYS	X	534	32.553	11.807	49.006	0.00	0.00
ATOM	8172	HE3	LYS	X	534	31.492	10.824	48.046	0.00	0.00
ATOM	8173	NZ	LYS	X	534	31.118	10.577	50.014	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	30.531	9.787	49.785	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	31.489	10.262	50.899	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	30.619	11.423	50.247	0.00	0.00
ATOM	8177	C	LYS	X	534	36.720	10.592	49.479	0.00	0.00
ATOM	8178	O	LYS	X	534	36.338	9.533	50.095	0.00	0.00
ATOM	8179	N	LEU	X	535	37.937	10.876	49.256	0.00	0.00
ATOM	8180	H	LEU	X	535	38.167	11.683	48.694	0.00	0.00
ATOM	8181	CA	LEU	X	535	39.078	10.126	49.957	0.00	0.00
ATOM	8182	HA	LEU	X	535	38.766	9.082	49.954	0.00	0.00
ATOM	8183	CB	LEU	X	535	40.411	10.358	49.205	0.00	0.00
ATOM	8184	HB2	LEU	X	535	40.237	10.309	48.130	0.00	0.00
ATOM	8185	HB3	LEU	X	535	40.783	11.348	49.467	0.00	0.00
ATOM	8186	CG	LEU	X	535	41.560	9.329	49.492	0.00	0.00
ATOM	8187	HG	LEU	X	535	41.651	9.356	50.578	0.00	0.00
ATOM	8188	CD1	LEU	X	535	41.180	7.903	49.127	0.00	0.00
ATOM	8189	HD11	LEU	X	535	40.774	7.801	48.121	0.00	0.00
ATOM	8190	HD12	LEU	X	535	42.079	7.286	49.150	0.00	0.00
ATOM	8191	HD13	LEU	X	535	40.456	7.512	49.842	0.00	0.00
ATOM	8192	CD2	LEU	X	535	42.769	9.893	48.806	0.00	0.00
ATOM	8193	HD21	LEU	X	535	42.506	10.101	47.769	0.00	0.00
ATOM	8194	HD22	LEU	X	535	43.104	10.837	49.237	0.00	0.00
ATOM	8195	HD23	LEU	X	535	43.529	9.123	48.942	0.00	0.00
ATOM	8196	C	LEU	X	535	39.154	10.597	51.428	0.00	0.00
ATOM	8197	O	LEU	X	535	39.240	9.738	52.329	0.00	0.00

ATOM	8198	N	LEU	X	536	39.174	11.907	51.669	0.00	0.00
ATOM	8199	H	LEU	X	536	39.274	12.580	50.923	0.00	0.00
ATOM	8200	CA	LEU	X	536	39.225	12.418	53.092	0.00	0.00
ATOM	8201	HA	LEU	X	536	40.144	12.063	53.559	0.00	0.00
ATOM	8202	CB	LEU	X	536	39.184	13.987	53.040	0.00	0.00
ATOM	8203	HB2	LEU	X	536	38.304	14.277	52.465	0.00	0.00
ATOM	8204	HB3	LEU	X	536	38.970	14.261	54.073	0.00	0.00
ATOM	8205	CG	LEU	X	536	40.454	14.679	52.546	0.00	0.00
ATOM	8206	HG	LEU	X	536	40.578	14.490	51.480	0.00	0.00
ATOM	8207	CD1	LEU	X	536	40.358	16.173	52.597	0.00	0.00
ATOM	8208	HD11	LEU	X	536	39.533	16.524	51.976	0.00	0.00
ATOM	8209	HD12	LEU	X	536	40.268	16.396	53.660	0.00	0.00
ATOM	8210	HD13	LEU	X	536	41.249	16.626	52.164	0.00	0.00
ATOM	8211	CD2	LEU	X	536	41.734	14.145	53.244	0.00	0.00
ATOM	8212	HD21	LEU	X	536	42.512	14.899	53.366	0.00	0.00
ATOM	8213	HD22	LEU	X	536	41.601	13.751	54.252	0.00	0.00
ATOM	8214	HD23	LEU	X	536	42.106	13.302	52.663	0.00	0.00
ATOM	8215	C	LEU	X	536	38.117	11.871	53.886	0.00	0.00
ATOM	8216	O	LEU	X	536	38.446	11.340	54.970	0.00	0.00
ATOM	8217	N	SER	X	537	36.888	12.051	53.462	0.00	0.00
ATOM	8218	H	SER	X	537	36.763	12.742	52.736	0.00	0.00
ATOM	8219	CA	SER	X	537	35.671	11.580	54.244	0.00	0.00
ATOM	8220	HA	SER	X	537	35.613	12.196	55.141	0.00	0.00
ATOM	8221	CB	SER	X	537	34.459	11.826	53.335	0.00	0.00
ATOM	8222	HB2	SER	X	537	34.562	11.403	52.336	0.00	0.00
ATOM	8223	HB3	SER	X	537	33.629	11.408	53.905	0.00	0.00
ATOM	8224	OG	SER	X	537	34.352	13.285	53.293	0.00	0.00
ATOM	8225	HG	SER	X	537	33.535	13.619	52.915	0.00	0.00
ATOM	8226	C	SER	X	537	35.708	10.123	54.664	0.00	0.00
ATOM	8227	O	SER	X	537	35.088	9.741	55.679	0.00	0.00
ATOM	8228	N	ALA	X	538	36.374	9.298	53.939	0.00	0.00
ATOM	8229	H	ALA	X	538	36.882	9.731	53.181	0.00	0.00
ATOM	8230	CA	ALA	X	538	36.278	7.878	54.058	0.00	0.00
ATOM	8231	HA	ALA	X	538	35.476	7.525	54.706	0.00	0.00
ATOM	8232	CB	ALA	X	538	35.810	7.458	52.661	0.00	0.00
ATOM	8233	HB1	ALA	X	538	34.808	7.842	52.469	0.00	0.00
ATOM	8234	HB2	ALA	X	538	36.463	7.951	51.940	0.00	0.00
ATOM	8235	HB3	ALA	X	538	35.746	6.375	52.564	0.00	0.00
ATOM	8236	C	ALA	X	538	37.549	7.159	54.518	0.00	0.00
ATOM	8237	O	ALA	X	538	37.550	5.909	54.644	0.00	0.00
ATOM	8238	N	THR	X	539	38.636	7.922	54.761	0.00	0.00
ATOM	8239	H	THR	X	539	38.510	8.919	54.660	0.00	0.00
ATOM	8240	CA	THR	X	539	39.979	7.338	55.138	0.00	0.00
ATOM	8241	HA	THR	X	539	40.030	6.272	54.913	0.00	0.00
ATOM	8242	CB	THR	X	539	41.186	7.992	54.344	0.00	0.00
ATOM	8243	HB	THR	X	539	42.114	7.903	54.908	0.00	0.00
ATOM	8244	CG2	THR	X	539	41.266	7.300	53.006	0.00	0.00
ATOM	8245	HG21	THR	X	539	41.932	7.889	52.376	0.00	0.00
ATOM	8246	HG22	THR	X	539	41.589	6.258	53.013	0.00	0.00
ATOM	8247	HG23	THR	X	539	40.246	7.251	52.626	0.00	0.00
ATOM	8248	OG1	THR	X	539	40.905	9.374	54.338	0.00	0.00
ATOM	8249	HG1	THR	X	539	40.264	9.520	53.639	0.00	0.00
ATOM	8250	C	THR	X	539	40.209	7.426	56.621	0.00	0.00
ATOM	8251	O	THR	X	539	41.222	6.890	57.091	0.00	0.00
ATOM	8252	OXT	THR	X	539	39.351	7.900	57.397	0.00	0.00
ATOM	8253	C	LIG	X	540	52.324	37.952	48.761	0.00	0.00
ATOM	8254	C1	LIG	X	540	52.700	37.475	50.039	0.00	0.00
ATOM	8255	C2	LIG	X	540	52.695	36.100	50.336	0.00	0.00
ATOM	8256	C3	LIG	X	540	52.615	35.197	49.353	0.00	0.00
ATOM	8257	C4	LIG	X	540	52.351	35.622	48.059	0.00	0.00
ATOM	8258	C5	LIG	X	540	52.088	36.968	47.799	0.00	0.00
ATOM	8259	C6	LIG	X	540	52.329	39.430	48.369	0.00	0.00
ATOM	8260	N	LIG	X	540	53.707	40.061	48.027	0.00	0.00
ATOM	8261	H	LIG	X	540	54.345	39.929	48.829	0.00	0.00
ATOM	8262	C7	LIG	X	540	53.520	41.514	47.836	0.00	0.00
ATOM	8263	C8	LIG	X	540	54.847	42.284	47.462	0.00	0.00
ATOM	8264	C9	LIG	X	540	55.302	41.580	46.138	0.00	0.00
ATOM	8265	C10	LIG	X	540	55.632	40.106	46.272	0.00	0.00
ATOM	8266	C11	LIG	X	540	54.280	39.470	46.782	0.00	0.00
ATOM	8267	O	LIG	X	540	52.866	35.653	51.697	0.00	0.00

ATOM	8268	C12	LIG	X	540	53.274	36.511	52.745	0.00	0.00
ATOM	8269	O1	LIG	X	540	52.634	33.835	49.583	0.00	0.00
ATOM	8270	H1	LIG	X	540	52.692	33.523	50.504	0.00	0.00
ATOM	8271	H2	LIG	X	540	52.845	38.175	50.858	0.00	0.00
ATOM	8272	H3	LIG	X	540	52.351	34.934	47.217	0.00	0.00
ATOM	8273	H4	LIG	X	540	52.103	37.275	46.756	0.00	0.00
ATOM	8274	H5	LIG	X	540	51.718	39.449	47.465	0.00	0.00
ATOM	8275	H6	LIG	X	540	51.847	39.976	49.182	0.00	0.00
ATOM	8276	H7	LIG	X	540	53.096	41.915	48.757	0.00	0.00
ATOM	8277	H8	LIG	X	540	52.743	41.603	47.075	0.00	0.00
ATOM	8278	H9	LIG	X	540	54.601	43.321	47.223	0.00	0.00
ATOM	8279	H10	LIG	X	540	55.744	42.271	48.085	0.00	0.00
ATOM	8280	H11	LIG	X	540	54.546	41.621	45.352	0.00	0.00
ATOM	8281	H12	LIG	X	540	56.152	42.202	45.850	0.00	0.00
ATOM	8282	H13	LIG	X	540	55.984	39.751	45.301	0.00	0.00
ATOM	8283	H14	LIG	X	540	56.413	39.965	47.022	0.00	0.00
ATOM	8284	H15	LIG	X	540	54.407	38.413	47.022	0.00	0.00
ATOM	8285	H16	LIG	X	540	53.480	39.715	46.082	0.00	0.00
ATOM	8286	H17	LIG	X	540	54.349	36.693	52.669	0.00	0.00
ATOM	8287	H18	LIG	X	540	53.181	35.963	53.686	0.00	0.00
ATOM	8288	H19	LIG	X	540	52.654	37.408	52.820	0.00	0.00
ATOM	8289	Na+	Na+	X	541	50.215	40.935	38.599	0.00	0.00
ATOM	8290	Na+	Na+	X	542	83.028	33.903	29.411	0.00	0.00
ATOM	8291	Na+	Na+	X	543	28.258	18.128	59.192	0.00	0.00
ATOM	8292	Na+	Na+	X	544	52.351	-7.757	60.766	0.00	0.00
ATOM	8293	Na+	Na+	X	545	54.705	25.317	35.918	0.00	0.00
ATOM	8294	Na+	Na+	X	546	17.741	38.001	26.119	0.00	0.00
ATOM	8295	Na+	Na+	X	547	71.311	50.690	40.351	0.00	0.00

END

4-HCl

CRYST1	85.134	85.134	85.134	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	40.982	78.565	29.656	0.00	0.00
ATOM	2	H1	ASP	X	1	41.987	78.571	29.761	0.00	0.00
ATOM	3	H2	ASP	X	1	40.588	78.866	28.776	0.00	0.00
ATOM	4	H3	ASP	X	1	40.582	77.657	29.845	0.00	0.00
ATOM	5	CA	ASP	X	1	40.366	79.439	30.598	0.00	0.00
ATOM	6	HA	ASP	X	1	40.742	80.462	30.579	0.00	0.00
ATOM	7	CB	ASP	X	1	38.894	79.650	30.091	0.00	0.00
ATOM	8	HB2	ASP	X	1	39.003	79.878	29.031	0.00	0.00
ATOM	9	HB3	ASP	X	1	38.322	78.746	30.300	0.00	0.00
ATOM	10	CG	ASP	X	1	38.248	80.849	30.736	0.00	0.00
ATOM	11	OD1	ASP	X	1	37.362	80.675	31.612	0.00	0.00
ATOM	12	OD2	ASP	X	1	38.462	81.978	30.282	0.00	0.00
ATOM	13	C	ASP	X	1	40.547	78.979	32.077	0.00	0.00
ATOM	14	O	ASP	X	1	41.260	79.597	32.875	0.00	0.00
ATOM	15	N	ALA	X	2	39.750	78.038	32.556	0.00	0.00
ATOM	16	H	ALA	X	2	39.319	77.369	31.934	0.00	0.00
ATOM	17	CA	ALA	X	2	39.619	77.703	33.970	0.00	0.00
ATOM	18	HA	ALA	X	2	40.578	77.755	34.486	0.00	0.00
ATOM	19	CB	ALA	X	2	38.688	78.751	34.583	0.00	0.00
ATOM	20	HB1	ALA	X	2	39.067	79.746	34.349	0.00	0.00
ATOM	21	HB2	ALA	X	2	37.708	78.604	34.129	0.00	0.00
ATOM	22	HB3	ALA	X	2	38.610	78.713	35.669	0.00	0.00
ATOM	23	C	ALA	X	2	39.114	76.233	34.123	0.00	0.00
ATOM	24	O	ALA	X	2	38.141	75.989	34.819	0.00	0.00
ATOM	25	N	GLU	X	3	39.625	75.283	33.246	0.00	0.00
ATOM	26	H	GLU	X	3	40.478	75.545	32.773	0.00	0.00
ATOM	27	CA	GLU	X	3	39.146	73.906	33.106	0.00	0.00
ATOM	28	HA	GLU	X	3	38.059	73.887	33.176	0.00	0.00
ATOM	29	CB	GLU	X	3	39.480	73.369	31.684	0.00	0.00
ATOM	30	HB2	GLU	X	3	40.550	73.183	31.587	0.00	0.00
ATOM	31	HB3	GLU	X	3	38.926	72.438	31.559	0.00	0.00
ATOM	32	CG	GLU	X	3	39.077	74.159	30.443	0.00	0.00
ATOM	33	HG2	GLU	X	3	39.286	73.511	29.592	0.00	0.00
ATOM	34	HG3	GLU	X	3	37.997	74.305	30.476	0.00	0.00
ATOM	35	CD	GLU	X	3	39.680	75.547	30.312	0.00	0.00
ATOM	36	OE1	GLU	X	3	39.002	76.526	30.567	0.00	0.00
ATOM	37	OE2	GLU	X	3	40.883	75.760	30.008	0.00	0.00
ATOM	38	C	GLU	X	3	39.665	72.875	34.112	0.00	0.00
ATOM	39	O	GLU	X	3	38.952	71.932	34.380	0.00	0.00

ATOM	40	N	LEU	X	4	40.782	73.099	34.810	0.00	0.00
ATOM	41	H	LEU	X	4	41.269	73.983	34.848	0.00	0.00
ATOM	42	CA	LEU	X	4	41.256	72.207	35.945	0.00	0.00
ATOM	43	HA	LEU	X	4	41.062	71.177	35.648	0.00	0.00
ATOM	44	CB	LEU	X	4	42.755	72.438	36.140	0.00	0.00
ATOM	45	HB2	LEU	X	4	42.938	73.502	36.291	0.00	0.00
ATOM	46	HB3	LEU	X	4	43.173	71.955	37.023	0.00	0.00
ATOM	47	CG	LEU	X	4	43.598	72.053	34.972	0.00	0.00
ATOM	48	HG	LEU	X	4	43.207	72.589	34.107	0.00	0.00
ATOM	49	CD1	LEU	X	4	45.107	72.194	35.337	0.00	0.00
ATOM	50	HD11	LEU	X	4	45.618	71.921	34.414	0.00	0.00
ATOM	51	HD12	LEU	X	4	45.222	73.271	35.463	0.00	0.00
ATOM	52	HD13	LEU	X	4	45.443	71.612	36.196	0.00	0.00
ATOM	53	CD2	LEU	X	4	43.432	70.618	34.683	0.00	0.00
ATOM	54	HD21	LEU	X	4	42.455	70.481	34.220	0.00	0.00
ATOM	55	HD22	LEU	X	4	44.157	70.199	33.984	0.00	0.00
ATOM	56	HD23	LEU	X	4	43.493	70.003	35.581	0.00	0.00
ATOM	57	C	LEU	X	4	40.527	72.456	37.268	0.00	0.00
ATOM	58	O	LEU	X	4	40.816	71.870	38.271	0.00	0.00
ATOM	59	N	LEU	X	5	39.710	73.487	37.318	0.00	0.00
ATOM	60	H	LEU	X	5	39.379	73.882	36.449	0.00	0.00
ATOM	61	CA	LEU	X	5	38.978	73.837	38.487	0.00	0.00
ATOM	62	HA	LEU	X	5	39.358	73.401	39.411	0.00	0.00
ATOM	63	CB	LEU	X	5	38.993	75.346	38.627	0.00	0.00
ATOM	64	HB2	LEU	X	5	38.663	75.762	37.675	0.00	0.00
ATOM	65	HB3	LEU	X	5	38.361	75.681	39.449	0.00	0.00
ATOM	66	CG	LEU	X	5	40.379	75.984	38.878	0.00	0.00
ATOM	67	HG	LEU	X	5	40.998	75.759	38.009	0.00	0.00
ATOM	68	CD1	LEU	X	5	40.296	77.494	38.877	0.00	0.00
ATOM	69	HD11	LEU	X	5	41.316	77.845	39.037	0.00	0.00
ATOM	70	HD12	LEU	X	5	39.909	77.995	37.990	0.00	0.00
ATOM	71	HD13	LEU	X	5	39.826	77.703	39.838	0.00	0.00
ATOM	72	CD2	LEU	X	5	41.074	75.344	40.076	0.00	0.00
ATOM	73	HD21	LEU	X	5	41.310	74.307	39.837	0.00	0.00
ATOM	74	HD22	LEU	X	5	41.927	75.982	40.307	0.00	0.00
ATOM	75	HD23	LEU	X	5	40.287	75.449	40.822	0.00	0.00
ATOM	76	C	LEU	X	5	37.526	73.272	38.349	0.00	0.00
ATOM	77	O	LEU	X	5	36.902	73.343	37.274	0.00	0.00
ATOM	78	N	VAL	X	6	36.955	72.753	39.432	0.00	0.00
ATOM	79	H	VAL	X	6	37.507	72.830	40.274	0.00	0.00
ATOM	80	CA	VAL	X	6	35.491	72.452	39.400	0.00	0.00
ATOM	81	HA	VAL	X	6	35.020	73.263	38.844	0.00	0.00
ATOM	82	CB	VAL	X	6	35.288	71.094	38.574	0.00	0.00
ATOM	83	HB	VAL	X	6	35.952	71.126	37.710	0.00	0.00
ATOM	84	CG1	VAL	X	6	35.483	69.815	39.333	0.00	0.00
ATOM	85	HG11	VAL	X	6	36.411	69.968	39.884	0.00	0.00
ATOM	86	HG12	VAL	X	6	34.777	69.673	40.152	0.00	0.00
ATOM	87	HG13	VAL	X	6	35.251	68.948	38.714	0.00	0.00
ATOM	88	CG2	VAL	X	6	33.840	71.075	38.015	0.00	0.00
ATOM	89	HG21	VAL	X	6	33.605	71.919	37.366	0.00	0.00
ATOM	90	HG22	VAL	X	6	33.681	70.205	37.377	0.00	0.00
ATOM	91	HG23	VAL	X	6	33.120	70.836	38.797	0.00	0.00
ATOM	92	C	VAL	X	6	34.854	72.428	40.803	0.00	0.00
ATOM	93	O	VAL	X	6	35.421	72.024	41.782	0.00	0.00
ATOM	94	N	THR	X	7	33.524	72.746	40.778	0.00	0.00
ATOM	95	H	THR	X	7	33.236	73.261	39.958	0.00	0.00
ATOM	96	CA	THR	X	7	32.713	72.673	41.927	0.00	0.00
ATOM	97	HA	THR	X	7	33.418	72.817	42.746	0.00	0.00
ATOM	98	CB	THR	X	7	31.828	73.991	41.996	0.00	0.00
ATOM	99	HB	THR	X	7	31.130	74.079	41.163	0.00	0.00
ATOM	100	CG2	THR	X	7	31.152	74.046	43.323	0.00	0.00
ATOM	101	HG21	THR	X	7	30.529	74.931	43.190	0.00	0.00
ATOM	102	HG22	THR	X	7	30.701	73.086	43.577	0.00	0.00
ATOM	103	HG23	THR	X	7	31.896	74.119	44.116	0.00	0.00
ATOM	104	OG1	THR	X	7	32.663	75.106	41.885	0.00	0.00
ATOM	105	HG1	THR	X	7	32.172	75.781	42.359	0.00	0.00
ATOM	106	C	THR	X	7	31.981	71.346	42.127	0.00	0.00
ATOM	107	O	THR	X	7	31.329	70.857	41.223	0.00	0.00
ATOM	108	N	VAL	X	8	32.072	70.789	43.345	0.00	0.00
ATOM	109	H	VAL	X	8	32.756	71.130	44.006	0.00	0.00

ATOM	110	CA	VAL	X	8	31.122	69.741	43.856	0.00	0.00
ATOM	111	HA	VAL	X	8	30.447	69.543	43.023	0.00	0.00
ATOM	112	CB	VAL	X	8	31.904	68.414	44.130	0.00	0.00
ATOM	113	HB	VAL	X	8	31.230	67.625	44.465	0.00	0.00
ATOM	114	CG1	VAL	X	8	32.487	67.889	42.791	0.00	0.00
ATOM	115	HG11	VAL	X	8	33.000	68.689	42.257	0.00	0.00
ATOM	116	HG12	VAL	X	8	33.072	67.002	43.035	0.00	0.00
ATOM	117	HG13	VAL	X	8	31.683	67.589	42.119	0.00	0.00
ATOM	118	CG2	VAL	X	8	32.959	68.463	45.242	0.00	0.00
ATOM	119	HG21	VAL	X	8	32.463	69.059	46.008	0.00	0.00
ATOM	120	HG22	VAL	X	8	32.964	67.593	45.899	0.00	0.00
ATOM	121	HG23	VAL	X	8	33.934	68.824	44.914	0.00	0.00
ATOM	122	C	VAL	X	8	30.239	70.227	45.004	0.00	0.00
ATOM	123	O	VAL	X	8	30.305	71.389	45.343	0.00	0.00
ATOM	124	N	ARG	X	9	29.325	69.405	45.522	0.00	0.00
ATOM	125	H	ARG	X	9	29.198	68.487	45.122	0.00	0.00
ATOM	126	CA	ARG	X	9	28.385	69.748	46.608	0.00	0.00
ATOM	127	HA	ARG	X	9	27.762	70.557	46.228	0.00	0.00
ATOM	128	CB	ARG	X	9	27.543	68.470	46.900	0.00	0.00
ATOM	129	HB2	ARG	X	9	27.599	67.850	46.004	0.00	0.00
ATOM	130	HB3	ARG	X	9	28.073	67.994	47.725	0.00	0.00
ATOM	131	CG	ARG	X	9	26.222	68.955	47.349	0.00	0.00
ATOM	132	HG2	ARG	X	9	26.402	69.633	48.184	0.00	0.00
ATOM	133	HG3	ARG	X	9	25.747	69.594	46.604	0.00	0.00
ATOM	134	CD	ARG	X	9	25.307	67.860	47.828	0.00	0.00
ATOM	135	HD2	ARG	X	9	24.760	67.336	47.044	0.00	0.00
ATOM	136	HD3	ARG	X	9	25.855	67.151	48.448	0.00	0.00
ATOM	137	NE	ARG	X	9	24.320	68.469	48.733	0.00	0.00
ATOM	138	HE	ARG	X	9	24.281	69.478	48.735	0.00	0.00
ATOM	139	CZ	ARG	X	9	23.441	67.896	49.490	0.00	0.00
ATOM	140	NH1	ARG	X	9	23.157	66.612	49.433	0.00	0.00
ATOM	141	HH11	ARG	X	9	23.557	66.093	48.664	0.00	0.00
ATOM	142	HH12	ARG	X	9	22.497	66.151	50.042	0.00	0.00
ATOM	143	NH2	ARG	X	9	22.825	68.660	50.386	0.00	0.00
ATOM	144	HH21	ARG	X	9	23.104	69.629	50.443	0.00	0.00
ATOM	145	HH22	ARG	X	9	22.033	68.356	50.934	0.00	0.00
ATOM	146	C	ARG	X	9	29.045	70.222	47.863	0.00	0.00
ATOM	147	O	ARG	X	9	28.549	71.071	48.539	0.00	0.00
ATOM	148	N	GLY	X	10	30.191	69.644	48.105	0.00	0.00
ATOM	149	H	GLY	X	10	30.449	68.896	47.479	0.00	0.00
ATOM	150	CA	GLY	X	10	31.130	69.976	49.241	0.00	0.00
ATOM	151	HA2	GLY	X	10	30.437	70.228	50.064	0.00	0.00
ATOM	152	HA3	GLY	X	10	31.868	69.247	49.446	0.00	0.00
ATOM	153	C	GLY	X	10	31.999	71.205	48.971	0.00	0.00
ATOM	154	O	GLY	X	10	32.526	71.752	49.946	0.00	0.00
ATOM	155	N	GLY	X	11	32.120	71.581	47.674	0.00	0.00
ATOM	156	H	GLY	X	11	31.613	71.172	46.903	0.00	0.00
ATOM	157	CA	GLY	X	11	32.918	72.758	47.299	0.00	0.00
ATOM	158	HA2	GLY	X	11	32.183	73.443	46.804	0.00	0.00
ATOM	159	HA3	GLY	X	11	33.393	73.231	48.151	0.00	0.00
ATOM	160	C	GLY	X	11	33.947	72.661	46.249	0.00	0.00
ATOM	161	O	GLY	X	11	33.864	71.801	45.342	0.00	0.00
ATOM	162	N	ARG	X	12	34.728	73.745	46.172	0.00	0.00
ATOM	163	H	ARG	X	12	34.825	74.511	46.823	0.00	0.00
ATOM	164	CA	ARG	X	12	35.665	73.845	45.040	0.00	0.00
ATOM	165	HA	ARG	X	12	35.092	73.507	44.177	0.00	0.00
ATOM	166	CB	ARG	X	12	36.087	75.347	44.867	0.00	0.00
ATOM	167	HB2	ARG	X	12	35.192	75.900	45.154	0.00	0.00
ATOM	168	HB3	ARG	X	12	36.954	75.676	45.441	0.00	0.00
ATOM	169	CG	ARG	X	12	36.429	75.665	43.388	0.00	0.00
ATOM	170	HG2	ARG	X	12	37.427	75.276	43.183	0.00	0.00
ATOM	171	HG3	ARG	X	12	35.716	75.063	42.826	0.00	0.00
ATOM	172	CD	ARG	X	12	36.389	77.157	43.006	0.00	0.00
ATOM	173	HD2	ARG	X	12	35.386	77.512	43.243	0.00	0.00
ATOM	174	HD3	ARG	X	12	37.137	77.747	43.536	0.00	0.00
ATOM	175	NE	ARG	X	12	36.396	77.234	41.526	0.00	0.00
ATOM	176	HE	ARG	X	12	35.782	76.601	41.032	0.00	0.00
ATOM	177	CZ	ARG	X	12	36.923	78.131	40.771	0.00	0.00
ATOM	178	NH1	ARG	X	12	37.888	78.957	41.171	0.00	0.00
ATOM	179	HH11	ARG	X	12	38.140	79.020	42.147	0.00	0.00

ATOM	180	HH12	ARG	X	12	38.228	79.710	40.591	0.00	0.00
ATOM	181	NH2	ARG	X	12	36.564	78.140	39.503	0.00	0.00
ATOM	182	HH21	ARG	X	12	35.819	77.544	39.172	0.00	0.00
ATOM	183	HH22	ARG	X	12	36.986	78.768	38.834	0.00	0.00
ATOM	184	C	ARG	X	12	36.819	72.903	45.090	0.00	0.00
ATOM	185	O	ARG	X	12	37.438	72.786	46.145	0.00	0.00
ATOM	186	N	LEU	X	13	37.257	72.340	43.975	0.00	0.00
ATOM	187	H	LEU	X	13	36.798	72.645	43.129	0.00	0.00
ATOM	188	CA	LEU	X	13	38.419	71.472	43.837	0.00	0.00
ATOM	189	HA	LEU	X	13	38.953	71.508	44.786	0.00	0.00
ATOM	190	CB	LEU	X	13	37.964	70.043	43.536	0.00	0.00
ATOM	191	HB2	LEU	X	13	37.538	70.083	42.534	0.00	0.00
ATOM	192	HB3	LEU	X	13	38.843	69.445	43.296	0.00	0.00
ATOM	193	CG	LEU	X	13	37.070	69.223	44.471	0.00	0.00
ATOM	194	HG	LEU	X	13	36.238	69.867	44.757	0.00	0.00
ATOM	195	CD1	LEU	X	13	36.490	68.030	43.806	0.00	0.00
ATOM	196	HD11	LEU	X	13	35.910	67.445	44.520	0.00	0.00
ATOM	197	HD12	LEU	X	13	35.782	68.304	43.024	0.00	0.00
ATOM	198	HD13	LEU	X	13	37.317	67.439	43.414	0.00	0.00
ATOM	199	CD2	LEU	X	13	37.862	68.767	45.647	0.00	0.00
ATOM	200	HD21	LEU	X	13	38.348	69.634	46.094	0.00	0.00
ATOM	201	HD22	LEU	X	13	37.146	68.419	46.392	0.00	0.00
ATOM	202	HD23	LEU	X	13	38.437	67.884	45.368	0.00	0.00
ATOM	203	C	LEU	X	13	39.287	72.060	42.800	0.00	0.00
ATOM	204	O	LEU	X	13	38.826	72.742	41.879	0.00	0.00
ATOM	205	N	ARG	X	14	40.514	71.629	42.851	0.00	0.00
ATOM	206	H	ARG	X	14	40.798	71.146	43.691	0.00	0.00
ATOM	207	CA	ARG	X	14	41.549	71.824	41.833	0.00	0.00
ATOM	208	HA	ARG	X	14	41.062	72.238	40.950	0.00	0.00
ATOM	209	CB	ARG	X	14	42.554	72.870	42.336	0.00	0.00
ATOM	210	HB2	ARG	X	14	42.157	73.881	42.247	0.00	0.00
ATOM	211	HB3	ARG	X	14	42.906	72.691	43.352	0.00	0.00
ATOM	212	CG	ARG	X	14	43.847	72.971	41.526	0.00	0.00
ATOM	213	HG2	ARG	X	14	44.365	72.018	41.638	0.00	0.00
ATOM	214	HG3	ARG	X	14	43.565	73.037	40.475	0.00	0.00
ATOM	215	CD	ARG	X	14	44.610	74.233	41.891	0.00	0.00
ATOM	216	HD2	ARG	X	14	45.467	74.383	41.234	0.00	0.00
ATOM	217	HD3	ARG	X	14	44.011	75.124	41.698	0.00	0.00
ATOM	218	NE	ARG	X	14	45.068	74.070	43.297	0.00	0.00
ATOM	219	HE	ARG	X	14	45.379	73.145	43.559	0.00	0.00
ATOM	220	CZ	ARG	X	14	44.982	74.960	44.249	0.00	0.00
ATOM	221	NH1	ARG	X	14	44.318	76.076	44.145	0.00	0.00
ATOM	222	HH11	ARG	X	14	43.898	76.390	43.282	0.00	0.00
ATOM	223	HH12	ARG	X	14	44.323	76.707	44.934	0.00	0.00
ATOM	224	NH2	ARG	X	14	45.594	74.633	45.385	0.00	0.00
ATOM	225	HH21	ARG	X	14	46.038	73.728	45.442	0.00	0.00
ATOM	226	HH22	ARG	X	14	45.594	75.272	46.166	0.00	0.00
ATOM	227	C	ARG	X	14	42.210	70.487	41.427	0.00	0.00
ATOM	228	O	ARG	X	14	42.730	69.836	42.345	0.00	0.00
ATOM	229	N	GLY	X	15	42.229	70.156	40.112	0.00	0.00
ATOM	230	H	GLY	X	15	41.820	70.825	39.476	0.00	0.00
ATOM	231	CA	GLY	X	15	42.949	68.969	39.597	0.00	0.00
ATOM	232	HA2	GLY	X	15	43.160	68.281	40.366	0.00	0.00
ATOM	233	HA3	GLY	X	15	42.243	68.434	38.886	0.00	0.00
ATOM	234	C	GLY	X	15	44.265	69.203	38.846	0.00	0.00
ATOM	235	O	GLY	X	15	44.733	70.336	38.801	0.00	0.00
ATOM	236	N	ILE	X	16	44.722	68.199	38.058	0.00	0.00
ATOM	237	H	ILE	X	16	44.134	67.381	37.992	0.00	0.00
ATOM	238	CA	ILE	X	16	45.903	68.300	37.185	0.00	0.00
ATOM	239	HA	ILE	X	16	46.319	69.306	37.243	0.00	0.00
ATOM	240	CB	ILE	X	16	47.070	67.347	37.874	0.00	0.00
ATOM	241	HB	ILE	X	16	48.006	67.424	37.320	0.00	0.00
ATOM	242	CG2	ILE	X	16	47.460	68.067	39.244	0.00	0.00
ATOM	243	HG21	ILE	X	16	47.760	69.110	39.137	0.00	0.00
ATOM	244	HG22	ILE	X	16	46.696	68.092	40.021	0.00	0.00
ATOM	245	HG23	ILE	X	16	48.332	67.643	39.742	0.00	0.00
ATOM	246	CG1	ILE	X	16	46.789	65.794	37.964	0.00	0.00
ATOM	247	HG12	ILE	X	16	45.920	65.640	38.603	0.00	0.00
ATOM	248	HG13	ILE	X	16	46.668	65.359	36.972	0.00	0.00
ATOM	249	CD1	ILE	X	16	47.978	65.080	38.553	0.00	0.00

ATOM	250	HD11	ILE	X	16	48.309	65.322	39.563	0.00	0.00
ATOM	251	HD12	ILE	X	16	47.709	64.028	38.452	0.00	0.00
ATOM	252	HD13	ILE	X	16	48.862	65.246	37.937	0.00	0.00
ATOM	253	C	ILE	X	16	45.682	67.796	35.767	0.00	0.00
ATOM	254	O	ILE	X	16	44.810	66.948	35.563	0.00	0.00
ATOM	255	N	ARG	X	17	46.461	68.281	34.784	0.00	0.00
ATOM	256	H	ARG	X	17	47.133	69.015	34.957	0.00	0.00
ATOM	257	CA	ARG	X	17	46.486	67.780	33.420	0.00	0.00
ATOM	258	HA	ARG	X	17	45.477	67.448	33.176	0.00	0.00
ATOM	259	CB	ARG	X	17	46.729	68.979	32.522	0.00	0.00
ATOM	260	HB2	ARG	X	17	46.107	69.802	32.874	0.00	0.00
ATOM	261	HB3	ARG	X	17	47.709	69.400	32.745	0.00	0.00
ATOM	262	CG	ARG	X	17	46.506	68.690	31.059	0.00	0.00
ATOM	263	HG2	ARG	X	17	47.152	67.921	30.636	0.00	0.00
ATOM	264	HG3	ARG	X	17	45.478	68.387	30.855	0.00	0.00
ATOM	265	CD	ARG	X	17	46.546	69.995	30.156	0.00	0.00
ATOM	266	HD2	ARG	X	17	45.599	70.438	29.849	0.00	0.00
ATOM	267	HD3	ARG	X	17	47.038	70.773	30.741	0.00	0.00
ATOM	268	NE	ARG	X	17	47.334	69.611	28.906	0.00	0.00
ATOM	269	HE	ARG	X	17	47.981	68.840	28.992	0.00	0.00
ATOM	270	CZ	ARG	X	17	47.415	70.282	27.778	0.00	0.00
ATOM	271	NH1	ARG	X	17	46.713	71.365	27.657	0.00	0.00
ATOM	272	HH11	ARG	X	17	46.346	71.818	28.481	0.00	0.00
ATOM	273	HH12	ARG	X	17	46.798	71.912	26.812	0.00	0.00
ATOM	274	NH2	ARG	X	17	48.143	69.943	26.791	0.00	0.00
ATOM	275	HH21	ARG	X	17	48.631	69.059	26.778	0.00	0.00
ATOM	276	HH22	ARG	X	17	48.110	70.519	25.962	0.00	0.00
ATOM	277	C	ARG	X	17	47.532	66.679	33.306	0.00	0.00
ATOM	278	O	ARG	X	17	48.530	66.811	34.058	0.00	0.00
ATOM	279	N	LEU	X	18	47.296	65.667	32.472	0.00	0.00
ATOM	280	H	LEU	X	18	46.594	65.771	31.753	0.00	0.00
ATOM	281	CA	LEU	X	18	48.210	64.506	32.182	0.00	0.00
ATOM	282	HA	LEU	X	18	49.180	64.637	32.662	0.00	0.00
ATOM	283	CB	LEU	X	18	47.489	63.214	32.661	0.00	0.00
ATOM	284	HB2	LEU	X	18	46.606	63.291	32.026	0.00	0.00
ATOM	285	HB3	LEU	X	18	48.024	62.318	32.349	0.00	0.00
ATOM	286	CG	LEU	X	18	47.090	63.146	34.144	0.00	0.00
ATOM	287	HG	LEU	X	18	46.362	63.934	34.339	0.00	0.00
ATOM	288	CD1	LEU	X	18	46.457	61.735	34.506	0.00	0.00
ATOM	289	HD11	LEU	X	18	45.580	61.460	33.920	0.00	0.00
ATOM	290	HD12	LEU	X	18	47.133	60.887	34.394	0.00	0.00
ATOM	291	HD13	LEU	X	18	46.226	61.811	35.569	0.00	0.00
ATOM	292	CD2	LEU	X	18	48.275	63.422	35.081	0.00	0.00
ATOM	293	HD21	LEU	X	18	49.014	62.626	34.985	0.00	0.00
ATOM	294	HD22	LEU	X	18	48.833	64.331	34.858	0.00	0.00
ATOM	295	HD23	LEU	X	18	47.896	63.519	36.098	0.00	0.00
ATOM	296	C	LEU	X	18	48.460	64.427	30.737	0.00	0.00
ATOM	297	O	LEU	X	18	47.510	64.494	30.009	0.00	0.00
ATOM	298	N	LYS	X	19	49.699	64.281	30.313	0.00	0.00
ATOM	299	H	LYS	X	19	50.441	64.165	30.988	0.00	0.00
ATOM	300	CA	LYS	X	19	50.005	64.105	28.915	0.00	0.00
ATOM	301	HA	LYS	X	19	49.282	64.661	28.318	0.00	0.00
ATOM	302	CB	LYS	X	19	51.385	64.739	28.577	0.00	0.00
ATOM	303	HB2	LYS	X	19	51.455	64.798	27.491	0.00	0.00
ATOM	304	HB3	LYS	X	19	51.388	65.746	28.995	0.00	0.00
ATOM	305	CG	LYS	X	19	52.710	64.014	29.055	0.00	0.00
ATOM	306	HG2	LYS	X	19	52.481	63.812	30.102	0.00	0.00
ATOM	307	HG3	LYS	X	19	52.821	63.129	28.429	0.00	0.00
ATOM	308	CD	LYS	X	19	53.976	64.903	28.977	0.00	0.00
ATOM	309	HD2	LYS	X	19	53.994	65.524	29.872	0.00	0.00
ATOM	310	HD3	LYS	X	19	54.822	64.270	29.245	0.00	0.00
ATOM	311	CE	LYS	X	19	54.020	65.648	27.616	0.00	0.00
ATOM	312	HE2	LYS	X	19	54.368	64.922	26.881	0.00	0.00
ATOM	313	HE3	LYS	X	19	53.019	66.030	27.414	0.00	0.00
ATOM	314	NZ	LYS	X	19	54.939	66.783	27.625	0.00	0.00
ATOM	315	HZ1	LYS	X	19	55.008	67.170	26.695	0.00	0.00
ATOM	316	HZ2	LYS	X	19	54.719	67.433	28.366	0.00	0.00
ATOM	317	HZ3	LYS	X	19	55.856	66.436	27.865	0.00	0.00
ATOM	318	C	LYS	X	19	49.890	62.675	28.511	0.00	0.00
ATOM	319	O	LYS	X	19	50.496	61.771	29.090	0.00	0.00

ATOM	320	N	THR	X	20	49.225	62.341	27.396	0.00	0.00
ATOM	321	H	THR	X	20	48.893	63.101	26.819	0.00	0.00
ATOM	322	CA	THR	X	20	48.823	60.959	27.050	0.00	0.00
ATOM	323	HA	THR	X	20	49.582	60.317	27.498	0.00	0.00
ATOM	324	CB	THR	X	20	47.465	60.454	27.611	0.00	0.00
ATOM	325	HB	THR	X	20	47.024	59.657	27.013	0.00	0.00
ATOM	326	CG2	THR	X	20	47.605	59.760	29.001	0.00	0.00
ATOM	327	HG21	THR	X	20	48.422	59.054	28.851	0.00	0.00
ATOM	328	HG22	THR	X	20	47.822	60.440	29.825	0.00	0.00
ATOM	329	HG23	THR	X	20	46.750	59.097	29.133	0.00	0.00
ATOM	330	OG1	THR	X	20	46.480	61.465	27.803	0.00	0.00
ATOM	331	HG1	THR	X	20	46.319	61.954	26.993	0.00	0.00
ATOM	332	C	THR	X	20	48.856	60.869	25.549	0.00	0.00
ATOM	333	O	THR	X	20	48.639	61.921	24.887	0.00	0.00
ATOM	334	N	PRO	X	21	49.142	59.691	24.882	0.00	0.00
ATOM	335	CD	PRO	X	21	49.630	58.465	25.540	0.00	0.00
ATOM	336	HD2	PRO	X	21	48.710	57.939	25.795	0.00	0.00
ATOM	337	HD3	PRO	X	21	50.228	58.694	26.421	0.00	0.00
ATOM	338	CG	PRO	X	21	50.423	57.766	24.461	0.00	0.00
ATOM	339	HG2	PRO	X	21	50.354	56.686	24.592	0.00	0.00
ATOM	340	HG3	PRO	X	21	51.443	58.147	24.407	0.00	0.00
ATOM	341	CB	PRO	X	21	49.708	58.189	23.241	0.00	0.00
ATOM	342	HB2	PRO	X	21	48.882	57.479	23.187	0.00	0.00
ATOM	343	HB3	PRO	X	21	50.366	58.147	22.373	0.00	0.00
ATOM	344	CA	PRO	X	21	49.222	59.648	23.466	0.00	0.00
ATOM	345	HA	PRO	X	21	49.961	60.376	23.132	0.00	0.00
ATOM	346	C	PRO	X	21	47.869	59.891	22.840	0.00	0.00
ATOM	347	O	PRO	X	21	46.765	59.609	23.361	0.00	0.00
ATOM	348	N	GLY	X	22	47.913	60.491	21.631	0.00	0.00
ATOM	349	H	GLY	X	22	48.794	60.803	21.247	0.00	0.00
ATOM	350	CA	GLY	X	22	46.727	60.981	20.940	0.00	0.00
ATOM	351	HA2	GLY	X	22	46.907	60.993	19.832	0.00	0.00
ATOM	352	HA3	GLY	X	22	45.871	60.351	21.164	0.00	0.00
ATOM	353	C	GLY	X	22	46.311	62.348	21.368	0.00	0.00
ATOM	354	O	GLY	X	22	46.283	63.216	20.510	0.00	0.00
ATOM	355	N	GLY	X	23	45.957	62.474	22.651	0.00	0.00
ATOM	356	H	GLY	X	23	46.122	61.572	23.074	0.00	0.00
ATOM	357	CA	GLY	X	23	45.664	63.723	23.360	0.00	0.00
ATOM	358	HA2	GLY	X	23	46.172	64.538	23.001	0.00	0.00
ATOM	359	HA3	GLY	X	23	44.585	63.965	23.133	0.00	0.00
ATOM	360	C	GLY	X	23	45.791	63.692	24.874	0.00	0.00
ATOM	361	O	GLY	X	23	45.839	62.559	25.375	0.00	0.00
ATOM	362	N	PRO	X	24	45.826	64.845	25.536	0.00	0.00
ATOM	363	CD	PRO	X	24	45.981	66.180	24.898	0.00	0.00
ATOM	364	HD2	PRO	X	24	45.256	66.582	24.190	0.00	0.00
ATOM	365	HD3	PRO	X	24	46.963	66.231	24.429	0.00	0.00
ATOM	366	CG	PRO	X	24	45.845	67.091	26.014	0.00	0.00
ATOM	367	HG2	PRO	X	24	44.837	67.421	26.266	0.00	0.00
ATOM	368	HG3	PRO	X	24	46.378	68.018	25.803	0.00	0.00
ATOM	369	CB	PRO	X	24	46.302	66.298	27.250	0.00	0.00
ATOM	370	HB2	PRO	X	24	45.975	66.772	28.175	0.00	0.00
ATOM	371	HB3	PRO	X	24	47.390	66.280	27.186	0.00	0.00
ATOM	372	CA	PRO	X	24	45.928	64.876	26.932	0.00	0.00
ATOM	373	HA	PRO	X	24	46.776	64.276	27.260	0.00	0.00
ATOM	374	C	PRO	X	24	44.674	64.436	27.706	0.00	0.00
ATOM	375	O	PRO	X	24	43.551	64.507	27.162	0.00	0.00
ATOM	376	N	VAL	X	25	44.832	64.193	29.006	0.00	0.00
ATOM	377	H	VAL	X	25	45.733	64.136	29.457	0.00	0.00
ATOM	378	CA	VAL	X	25	43.671	63.995	29.940	0.00	0.00
ATOM	379	HA	VAL	X	25	42.786	64.381	29.436	0.00	0.00
ATOM	380	CB	VAL	X	25	43.431	62.473	30.218	0.00	0.00
ATOM	381	HB	VAL	X	25	42.603	62.215	30.879	0.00	0.00
ATOM	382	CG1	VAL	X	25	42.941	61.782	28.895	0.00	0.00
ATOM	383	HG11	VAL	X	25	42.309	62.524	28.408	0.00	0.00
ATOM	384	HG12	VAL	X	25	43.796	61.659	28.231	0.00	0.00
ATOM	385	HG13	VAL	X	25	42.423	60.832	29.032	0.00	0.00
ATOM	386	CG2	VAL	X	25	44.603	61.684	30.794	0.00	0.00
ATOM	387	HG21	VAL	X	25	44.737	61.917	31.850	0.00	0.00
ATOM	388	HG22	VAL	X	25	44.395	60.615	30.752	0.00	0.00
ATOM	389	HG23	VAL	X	25	45.569	61.887	30.332	0.00	0.00

ATOM	390	C	VAL	X	25	43.771	64.855	31.194	0.00	0.00
ATOM	391	O	VAL	X	25	44.609	65.712	31.222	0.00	0.00
ATOM	392	N	SER	X	26	43.024	64.508	32.244	0.00	0.00
ATOM	393	H	SER	X	26	42.417	63.713	32.102	0.00	0.00
ATOM	394	CA	SER	X	26	43.068	65.198	33.522	0.00	0.00
ATOM	395	HA	SER	X	26	44.090	65.542	33.681	0.00	0.00
ATOM	396	CB	SER	X	26	42.232	66.466	33.556	0.00	0.00
ATOM	397	HB2	SER	X	26	42.362	66.902	34.546	0.00	0.00
ATOM	398	HB3	SER	X	26	42.555	67.162	32.781	0.00	0.00
ATOM	399	OG	SER	X	26	40.823	66.182	33.365	0.00	0.00
ATOM	400	HG	SER	X	26	40.798	65.430	32.769	0.00	0.00
ATOM	401	C	SER	X	26	42.792	64.220	34.690	0.00	0.00
ATOM	402	O	SER	X	26	42.447	63.009	34.442	0.00	0.00
ATOM	403	N	ALA	X	27	43.052	64.590	35.962	0.00	0.00
ATOM	404	H	ALA	X	27	43.377	65.526	36.160	0.00	0.00
ATOM	405	CA	ALA	X	27	42.691	63.738	37.147	0.00	0.00
ATOM	406	HA	ALA	X	27	41.742	63.243	36.940	0.00	0.00
ATOM	407	CB	ALA	X	27	43.815	62.625	37.397	0.00	0.00
ATOM	408	HB1	ALA	X	27	43.764	61.987	36.515	0.00	0.00
ATOM	409	HB2	ALA	X	27	44.755	63.147	37.579	0.00	0.00
ATOM	410	HB3	ALA	X	27	43.492	62.027	38.250	0.00	0.00
ATOM	411	C	ALA	X	27	42.581	64.614	38.451	0.00	0.00
ATOM	412	O	ALA	X	27	43.053	65.804	38.425	0.00	0.00
ATOM	413	N	PHE	X	28	41.838	64.141	39.385	0.00	0.00
ATOM	414	H	PHE	X	28	41.463	63.206	39.314	0.00	0.00
ATOM	415	CA	PHE	X	28	41.551	64.826	40.629	0.00	0.00
ATOM	416	HA	PHE	X	28	42.316	65.600	40.696	0.00	0.00
ATOM	417	CB	PHE	X	28	40.173	65.508	40.529	0.00	0.00
ATOM	418	HB2	PHE	X	28	39.413	64.779	40.247	0.00	0.00
ATOM	419	HB3	PHE	X	28	39.972	65.865	41.539	0.00	0.00
ATOM	420	CG	PHE	X	28	40.053	66.756	39.701	0.00	0.00
ATOM	421	CD1	PHE	X	28	39.841	66.647	38.258	0.00	0.00
ATOM	422	HD1	PHE	X	28	39.990	65.719	37.727	0.00	0.00
ATOM	423	CE1	PHE	X	28	39.550	67.772	37.545	0.00	0.00
ATOM	424	HE1	PHE	X	28	39.594	67.623	36.476	0.00	0.00
ATOM	425	CZ	PHE	X	28	39.255	69.045	38.143	0.00	0.00
ATOM	426	HZ	PHE	X	28	38.994	69.876	37.505	0.00	0.00
ATOM	427	CE2	PHE	X	28	39.358	69.143	39.502	0.00	0.00
ATOM	428	HE2	PHE	X	28	39.154	70.125	39.902	0.00	0.00
ATOM	429	CD2	PHE	X	28	39.800	68.035	40.273	0.00	0.00
ATOM	430	HD2	PHE	X	28	39.859	68.184	41.341	0.00	0.00
ATOM	431	C	PHE	X	28	41.572	63.702	41.664	0.00	0.00
ATOM	432	O	PHE	X	28	40.877	62.703	41.566	0.00	0.00
ATOM	433	N	LEU	X	29	42.575	63.771	42.529	0.00	0.00
ATOM	434	H	LEU	X	29	42.923	64.709	42.669	0.00	0.00
ATOM	435	CA	LEU	X	29	43.000	62.736	43.460	0.00	0.00
ATOM	436	HA	LEU	X	29	42.471	61.806	43.252	0.00	0.00
ATOM	437	CB	LEU	X	29	44.572	62.424	43.152	0.00	0.00
ATOM	438	HB2	LEU	X	29	45.190	63.286	43.403	0.00	0.00
ATOM	439	HB3	LEU	X	29	44.874	61.555	43.736	0.00	0.00
ATOM	440	CG	LEU	X	29	45.147	62.051	41.688	0.00	0.00
ATOM	441	HG	LEU	X	29	46.189	61.812	41.901	0.00	0.00
ATOM	442	CD1	LEU	X	29	44.428	60.847	41.073	0.00	0.00
ATOM	443	HD11	LEU	X	29	44.564	59.977	41.715	0.00	0.00
ATOM	444	HD12	LEU	X	29	43.383	61.079	40.866	0.00	0.00
ATOM	445	HD13	LEU	X	29	44.676	60.662	40.028	0.00	0.00
ATOM	446	CD2	LEU	X	29	45.110	63.343	40.822	0.00	0.00
ATOM	447	HD21	LEU	X	29	44.068	63.556	40.583	0.00	0.00
ATOM	448	HD22	LEU	X	29	45.559	64.238	41.251	0.00	0.00
ATOM	449	HD23	LEU	X	29	45.708	63.249	39.915	0.00	0.00
ATOM	450	C	LEU	X	29	42.820	63.231	44.879	0.00	0.00
ATOM	451	O	LEU	X	29	43.073	64.376	45.193	0.00	0.00
ATOM	452	N	GLY	X	30	42.491	62.234	45.746	0.00	0.00
ATOM	453	H	GLY	X	30	42.315	61.267	45.512	0.00	0.00
ATOM	454	CA	GLY	X	30	42.463	62.537	47.176	0.00	0.00
ATOM	455	HA2	GLY	X	30	42.384	61.638	47.748	0.00	0.00
ATOM	456	HA3	GLY	X	30	43.340	62.979	47.502	0.00	0.00
ATOM	457	C	GLY	X	30	41.334	63.558	47.559	0.00	0.00
ATOM	458	O	GLY	X	30	41.378	64.461	48.344	0.00	0.00
ATOM	459	N	ILE	X	31	40.130	63.304	46.986	0.00	0.00

ATOM	460	H	ILE	X	31	40.124	62.641	46.224	0.00	0.00
ATOM	461	CA	ILE	X	31	38.897	64.072	47.167	0.00	0.00
ATOM	462	HA	ILE	X	31	39.213	65.106	47.310	0.00	0.00
ATOM	463	CB	ILE	X	31	38.015	64.048	45.890	0.00	0.00
ATOM	464	HB	ILE	X	31	37.502	63.087	45.945	0.00	0.00
ATOM	465	CG2	ILE	X	31	36.914	65.110	46.126	0.00	0.00
ATOM	466	HG21	ILE	X	31	37.317	65.996	46.615	0.00	0.00
ATOM	467	HG22	ILE	X	31	36.423	65.362	45.186	0.00	0.00
ATOM	468	HG23	ILE	X	31	35.986	64.759	46.576	0.00	0.00
ATOM	469	CG1	ILE	X	31	38.756	64.183	44.546	0.00	0.00
ATOM	470	HG12	ILE	X	31	39.369	65.081	44.461	0.00	0.00
ATOM	471	HG13	ILE	X	31	39.505	63.392	44.512	0.00	0.00
ATOM	472	CD1	ILE	X	31	37.867	64.101	43.303	0.00	0.00
ATOM	473	HD11	ILE	X	31	37.127	63.304	43.375	0.00	0.00
ATOM	474	HD12	ILE	X	31	37.289	65.024	43.254	0.00	0.00
ATOM	475	HD13	ILE	X	31	38.468	64.015	42.397	0.00	0.00
ATOM	476	C	ILE	X	31	38.152	63.585	48.472	0.00	0.00
ATOM	477	O	ILE	X	31	37.833	62.359	48.525	0.00	0.00
ATOM	478	N	PRO	X	32	37.956	64.426	49.499	0.00	0.00
ATOM	479	CD	PRO	X	32	38.424	65.840	49.495	0.00	0.00
ATOM	480	HD2	PRO	X	32	37.868	66.415	48.755	0.00	0.00
ATOM	481	HD3	PRO	X	32	39.506	65.950	49.428	0.00	0.00
ATOM	482	CG	PRO	X	32	37.910	66.330	50.849	0.00	0.00
ATOM	483	HG2	PRO	X	32	36.906	66.676	50.604	0.00	0.00
ATOM	484	HG3	PRO	X	32	38.501	67.117	51.317	0.00	0.00
ATOM	485	CB	PRO	X	32	37.762	65.167	51.781	0.00	0.00
ATOM	486	HB2	PRO	X	32	36.920	65.360	52.446	0.00	0.00
ATOM	487	HB3	PRO	X	32	38.676	65.030	52.359	0.00	0.00
ATOM	488	CA	PRO	X	32	37.430	64.041	50.783	0.00	0.00
ATOM	489	HA	PRO	X	32	37.922	63.107	51.053	0.00	0.00
ATOM	490	C	PRO	X	32	35.936	63.780	50.707	0.00	0.00
ATOM	491	O	PRO	X	32	35.152	64.666	50.508	0.00	0.00
ATOM	492	N	PHE	X	33	35.555	62.502	50.807	0.00	0.00
ATOM	493	H	PHE	X	33	36.227	61.763	50.957	0.00	0.00
ATOM	494	CA	PHE	X	33	34.188	62.070	50.648	0.00	0.00
ATOM	495	HA	PHE	X	33	33.617	62.946	50.340	0.00	0.00
ATOM	496	CB	PHE	X	33	34.078	60.960	49.654	0.00	0.00
ATOM	497	HB2	PHE	X	33	33.124	61.039	49.132	0.00	0.00
ATOM	498	HB3	PHE	X	33	34.789	61.107	48.841	0.00	0.00
ATOM	499	CG	PHE	X	33	34.251	59.508	50.179	0.00	0.00
ATOM	500	CD1	PHE	X	33	33.149	58.743	50.541	0.00	0.00
ATOM	501	HD1	PHE	X	33	32.163	59.174	50.446	0.00	0.00
ATOM	502	CE1	PHE	X	33	33.275	57.442	50.978	0.00	0.00
ATOM	503	HE1	PHE	X	33	32.448	56.823	51.289	0.00	0.00
ATOM	504	CZ	PHE	X	33	34.582	56.908	51.021	0.00	0.00
ATOM	505	HZ	PHE	X	33	34.770	55.927	51.431	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.699	57.616	50.656	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.659	57.126	50.592	0.00	0.00
ATOM	508	CD2	PHE	X	33	35.521	58.914	50.286	0.00	0.00
ATOM	509	HD2	PHE	X	33	36.398	59.482	50.013	0.00	0.00
ATOM	510	C	PHE	X	33	33.526	61.712	51.962	0.00	0.00
ATOM	511	O	PHE	X	33	32.294	61.851	52.098	0.00	0.00
ATOM	512	N	ALA	X	34	34.294	61.433	53.007	0.00	0.00
ATOM	513	H	ALA	X	34	35.236	61.093	52.879	0.00	0.00
ATOM	514	CA	ALA	X	34	33.762	60.929	54.312	0.00	0.00
ATOM	515	HA	ALA	X	34	32.781	61.377	54.470	0.00	0.00
ATOM	516	CB	ALA	X	34	33.538	59.381	54.224	0.00	0.00
ATOM	517	HB1	ALA	X	34	34.428	58.812	53.958	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.117	59.011	55.159	0.00	0.00
ATOM	519	HB3	ALA	X	34	32.810	59.230	53.427	0.00	0.00
ATOM	520	C	ALA	X	34	34.603	61.419	55.413	0.00	0.00
ATOM	521	O	ALA	X	34	35.769	61.683	55.269	0.00	0.00
ATOM	522	N	GLU	X	35	34.038	61.379	56.655	0.00	0.00
ATOM	523	H	GLU	X	35	33.064	61.111	56.658	0.00	0.00
ATOM	524	CA	GLU	X	35	34.744	61.875	57.794	0.00	0.00
ATOM	525	HA	GLU	X	35	35.382	62.704	57.486	0.00	0.00
ATOM	526	CB	GLU	X	35	33.782	62.331	58.890	0.00	0.00
ATOM	527	HB2	GLU	X	35	33.060	61.516	58.928	0.00	0.00
ATOM	528	HB3	GLU	X	35	34.243	62.451	59.870	0.00	0.00
ATOM	529	CG	GLU	X	35	33.099	63.717	58.623	0.00	0.00

ATOM	530	HG2	GLU	X	35	32.479	63.634	57.730	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.374	63.963	59.399	0.00	0.00
ATOM	532	CD	GLU	X	35	34.021	64.962	58.443	0.00	0.00
ATOM	533	OE1	GLU	X	35	34.925	65.109	59.280	0.00	0.00
ATOM	534	OE2	GLU	X	35	33.737	65.755	57.542	0.00	0.00
ATOM	535	C	GLU	X	35	35.673	60.788	58.293	0.00	0.00
ATOM	536	O	GLU	X	35	35.286	59.603	58.263	0.00	0.00
ATOM	537	N	PRO	X	36	36.955	61.088	58.700	0.00	0.00
ATOM	538	CD	PRO	X	36	37.604	62.332	58.540	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.929	62.981	59.098	0.00	0.00
ATOM	540	HD3	PRO	X	36	37.614	62.665	57.502	0.00	0.00
ATOM	541	CG	PRO	X	36	39.052	62.163	59.066	0.00	0.00
ATOM	542	HG2	PRO	X	36	39.362	62.986	59.710	0.00	0.00
ATOM	543	HG3	PRO	X	36	39.767	62.108	58.245	0.00	0.00
ATOM	544	CB	PRO	X	36	39.136	60.863	59.849	0.00	0.00
ATOM	545	HB2	PRO	X	36	39.084	61.122	60.906	0.00	0.00
ATOM	546	HB3	PRO	X	36	40.036	60.271	59.680	0.00	0.00
ATOM	547	CA	PRO	X	36	37.964	60.094	59.259	0.00	0.00
ATOM	548	HA	PRO	X	36	38.397	59.615	58.381	0.00	0.00
ATOM	549	C	PRO	X	36	37.384	59.124	60.301	0.00	0.00
ATOM	550	O	PRO	X	36	36.796	59.513	61.299	0.00	0.00
ATOM	551	N	PRO	X	37	37.436	57.810	59.939	0.00	0.00
ATOM	552	CD	PRO	X	37	37.800	57.288	58.629	0.00	0.00
ATOM	553	HD2	PRO	X	37	38.807	57.606	58.361	0.00	0.00
ATOM	554	HD3	PRO	X	37	37.151	57.757	57.890	0.00	0.00
ATOM	555	CG	PRO	X	37	37.697	55.739	58.694	0.00	0.00
ATOM	556	HG2	PRO	X	37	38.689	55.412	59.005	0.00	0.00
ATOM	557	HG3	PRO	X	37	37.454	55.226	57.763	0.00	0.00
ATOM	558	CB	PRO	X	37	36.547	55.547	59.679	0.00	0.00
ATOM	559	HB2	PRO	X	37	36.599	54.586	60.191	0.00	0.00
ATOM	560	HB3	PRO	X	37	35.633	55.708	59.108	0.00	0.00
ATOM	561	CA	PRO	X	37	36.832	56.729	60.744	0.00	0.00
ATOM	562	HA	PRO	X	37	35.938	57.182	61.170	0.00	0.00
ATOM	563	C	PRO	X	37	37.829	56.307	61.844	0.00	0.00
ATOM	564	O	PRO	X	37	37.903	55.116	62.161	0.00	0.00
ATOM	565	N	MET	X	38	38.593	57.268	62.350	0.00	0.00
ATOM	566	H	MET	X	38	38.417	58.243	62.153	0.00	0.00
ATOM	567	CA	MET	X	38	39.558	57.120	63.450	0.00	0.00
ATOM	568	HA	MET	X	38	40.283	56.361	63.159	0.00	0.00
ATOM	569	CB	MET	X	38	40.225	58.491	63.839	0.00	0.00
ATOM	570	HB2	MET	X	38	39.623	59.377	64.042	0.00	0.00
ATOM	571	HB3	MET	X	38	40.750	58.270	64.769	0.00	0.00
ATOM	572	CG	MET	X	38	41.303	58.841	62.910	0.00	0.00
ATOM	573	HG2	MET	X	38	42.116	58.209	63.268	0.00	0.00
ATOM	574	HG3	MET	X	38	41.047	58.525	61.899	0.00	0.00
ATOM	575	SD	MET	X	38	41.801	60.516	62.836	0.00	0.00
ATOM	576	CE	MET	X	38	42.595	60.631	61.281	0.00	0.00
ATOM	577	HE1	MET	X	38	43.600	60.212	61.222	0.00	0.00
ATOM	578	HE2	MET	X	38	41.933	60.350	60.463	0.00	0.00
ATOM	579	HE3	MET	X	38	42.801	61.665	61.004	0.00	0.00
ATOM	580	C	MET	X	38	38.879	56.646	64.750	0.00	0.00
ATOM	581	O	MET	X	38	37.863	57.238	65.197	0.00	0.00
ATOM	582	N	GLY	X	39	39.648	55.773	65.465	0.00	0.00
ATOM	583	H	GLY	X	39	40.462	55.427	64.977	0.00	0.00
ATOM	584	CA	GLY	X	39	39.595	55.542	66.929	0.00	0.00
ATOM	585	HA2	GLY	X	39	40.308	54.731	67.148	0.00	0.00
ATOM	586	HA3	GLY	X	39	39.888	56.410	67.483	0.00	0.00
ATOM	587	C	GLY	X	39	38.230	55.123	67.367	0.00	0.00
ATOM	588	O	GLY	X	39	37.897	53.998	66.950	0.00	0.00
ATOM	589	N	PRO	X	40	37.332	55.946	67.936	0.00	0.00
ATOM	590	CD	PRO	X	40	37.691	57.241	68.500	0.00	0.00
ATOM	591	HD2	PRO	X	40	37.816	57.941	67.675	0.00	0.00
ATOM	592	HD3	PRO	X	40	38.652	57.125	69.002	0.00	0.00
ATOM	593	CG	PRO	X	40	36.510	57.660	69.383	0.00	0.00
ATOM	594	HG2	PRO	X	40	36.428	58.747	69.379	0.00	0.00
ATOM	595	HG3	PRO	X	40	36.679	57.352	70.415	0.00	0.00
ATOM	596	CB	PRO	X	40	35.278	56.961	68.793	0.00	0.00
ATOM	597	HB2	PRO	X	40	34.827	57.671	68.099	0.00	0.00
ATOM	598	HB3	PRO	X	40	34.503	56.758	69.532	0.00	0.00
ATOM	599	CA	PRO	X	40	35.864	55.700	68.196	0.00	0.00

ATOM	600	HA	PRO	X	40	35.876	54.856	68.886	0.00	0.00
ATOM	601	C	PRO	X	40	34.983	55.290	66.975	0.00	0.00
ATOM	602	O	PRO	X	40	34.017	54.485	67.240	0.00	0.00
ATOM	603	N	ARG	X	41	35.316	55.651	65.753	0.00	0.00
ATOM	604	H	ARG	X	41	36.171	56.181	65.660	0.00	0.00
ATOM	605	CA	ARG	X	41	34.527	55.206	64.618	0.00	0.00
ATOM	606	HA	ARG	X	41	33.481	55.145	64.915	0.00	0.00
ATOM	607	CB	ARG	X	41	34.671	56.184	63.413	0.00	0.00
ATOM	608	HB2	ARG	X	41	35.656	56.649	63.385	0.00	0.00
ATOM	609	HB3	ARG	X	41	34.552	55.611	62.494	0.00	0.00
ATOM	610	CG	ARG	X	41	33.486	57.192	63.422	0.00	0.00
ATOM	611	HG2	ARG	X	41	32.586	56.728	63.017	0.00	0.00
ATOM	612	HG3	ARG	X	41	33.369	57.456	64.473	0.00	0.00
ATOM	613	CD	ARG	X	41	33.991	58.378	62.572	0.00	0.00
ATOM	614	HD2	ARG	X	41	34.946	58.624	63.039	0.00	0.00
ATOM	615	HD3	ARG	X	41	34.000	58.123	61.513	0.00	0.00
ATOM	616	NE	ARG	X	41	33.191	59.600	62.789	0.00	0.00
ATOM	617	HE	ARG	X	41	32.281	59.508	63.219	0.00	0.00
ATOM	618	CZ	ARG	X	41	33.522	60.823	62.504	0.00	0.00
ATOM	619	NH1	ARG	X	41	34.664	61.155	61.956	0.00	0.00
ATOM	620	HH11	ARG	X	41	35.351	60.468	61.681	0.00	0.00
ATOM	621	HH12	ARG	X	41	34.923	62.132	61.969	0.00	0.00
ATOM	622	NH2	ARG	X	41	32.658	61.750	62.767	0.00	0.00
ATOM	623	HH21	ARG	X	41	31.703	61.445	62.890	0.00	0.00
ATOM	624	HH22	ARG	X	41	32.770	62.721	62.513	0.00	0.00
ATOM	625	C	ARG	X	41	35.015	53.847	64.129	0.00	0.00
ATOM	626	O	ARG	X	41	34.343	53.307	63.280	0.00	0.00
ATOM	627	N	ARG	X	42	36.061	53.145	64.583	0.00	0.00
ATOM	628	H	ARG	X	42	36.682	53.625	65.219	0.00	0.00
ATOM	629	CA	ARG	X	42	36.336	51.737	64.183	0.00	0.00
ATOM	630	HA	ARG	X	42	36.525	51.832	63.114	0.00	0.00
ATOM	631	CB	ARG	X	42	37.620	51.393	64.977	0.00	0.00
ATOM	632	HB2	ARG	X	42	37.385	51.474	66.039	0.00	0.00
ATOM	633	HB3	ARG	X	42	37.804	50.320	64.922	0.00	0.00
ATOM	634	CG	ARG	X	42	38.946	52.162	64.564	0.00	0.00
ATOM	635	HG2	ARG	X	42	39.222	51.995	63.523	0.00	0.00
ATOM	636	HG3	ARG	X	42	38.782	53.232	64.697	0.00	0.00
ATOM	637	CD	ARG	X	42	40.009	51.520	65.502	0.00	0.00
ATOM	638	HD2	ARG	X	42	39.568	51.470	66.498	0.00	0.00
ATOM	639	HD3	ARG	X	42	40.184	50.483	65.215	0.00	0.00
ATOM	640	NE	ARG	X	42	41.179	52.335	65.626	0.00	0.00
ATOM	641	HE	ARG	X	42	41.192	53.144	65.022	0.00	0.00
ATOM	642	CZ	ARG	X	42	41.985	52.467	66.632	0.00	0.00
ATOM	643	NH1	ARG	X	42	41.970	51.628	67.670	0.00	0.00
ATOM	644	HH11	ARG	X	42	41.348	50.840	67.571	0.00	0.00
ATOM	645	HH12	ARG	X	42	42.704	51.576	68.363	0.00	0.00
ATOM	646	NH2	ARG	X	42	42.908	53.370	66.617	0.00	0.00
ATOM	647	HH21	ARG	X	42	43.049	53.970	65.817	0.00	0.00
ATOM	648	HH22	ARG	X	42	43.563	53.477	67.377	0.00	0.00
ATOM	649	C	ARG	X	42	35.200	50.773	64.373	0.00	0.00
ATOM	650	O	ARG	X	42	34.446	51.095	65.293	0.00	0.00
ATOM	651	N	PHE	X	43	35.003	49.828	63.457	0.00	0.00
ATOM	652	H	PHE	X	43	35.758	49.761	62.790	0.00	0.00
ATOM	653	CA	PHE	X	43	33.925	48.795	63.423	0.00	0.00
ATOM	654	HA	PHE	X	43	34.127	48.097	62.611	0.00	0.00
ATOM	655	CB	PHE	X	43	34.043	47.945	64.651	0.00	0.00
ATOM	656	HB2	PHE	X	43	33.421	48.477	65.371	0.00	0.00
ATOM	657	HB3	PHE	X	43	33.635	46.941	64.542	0.00	0.00
ATOM	658	CG	PHE	X	43	35.408	47.766	65.364	0.00	0.00
ATOM	659	CD1	PHE	X	43	36.584	47.582	64.640	0.00	0.00
ATOM	660	HD1	PHE	X	43	36.611	47.605	63.561	0.00	0.00
ATOM	661	CE1	PHE	X	43	37.866	47.504	65.359	0.00	0.00
ATOM	662	HE1	PHE	X	43	38.766	47.411	64.769	0.00	0.00
ATOM	663	CZ	PHE	X	43	37.848	47.596	66.745	0.00	0.00
ATOM	664	HZ	PHE	X	43	38.829	47.650	67.194	0.00	0.00
ATOM	665	CE2	PHE	X	43	36.642	47.648	67.427	0.00	0.00
ATOM	666	HE2	PHE	X	43	36.637	47.563	68.503	0.00	0.00
ATOM	667	CD2	PHE	X	43	35.419	47.647	66.792	0.00	0.00
ATOM	668	HD2	PHE	X	43	34.564	47.677	67.451	0.00	0.00
ATOM	669	C	PHE	X	43	32.449	49.347	63.413	0.00	0.00

ATOM	670	O	PHE	X	43	31.523	48.612	63.185	0.00	0.00
ATOM	671	N	LEU	X	44	32.301	50.707	63.524	0.00	0.00
ATOM	672	H	LEU	X	44	33.152	51.245	63.605	0.00	0.00
ATOM	673	CA	LEU	X	44	31.062	51.459	63.544	0.00	0.00
ATOM	674	HA	LEU	X	44	30.314	50.668	63.493	0.00	0.00
ATOM	675	CB	LEU	X	44	30.995	52.380	64.825	0.00	0.00
ATOM	676	HB2	LEU	X	44	31.980	52.758	65.100	0.00	0.00
ATOM	677	HB3	LEU	X	44	30.244	53.143	64.616	0.00	0.00
ATOM	678	CG	LEU	X	44	30.497	51.701	66.140	0.00	0.00
ATOM	679	HG	LEU	X	44	29.494	51.366	65.874	0.00	0.00
ATOM	680	CD1	LEU	X	44	31.381	50.557	66.616	0.00	0.00
ATOM	681	HD11	LEU	X	44	31.378	49.722	65.916	0.00	0.00
ATOM	682	HD12	LEU	X	44	32.415	50.857	66.784	0.00	0.00
ATOM	683	HD13	LEU	X	44	30.859	50.150	67.483	0.00	0.00
ATOM	684	CD2	LEU	X	44	30.422	52.678	67.285	0.00	0.00
ATOM	685	HD21	LEU	X	44	29.899	52.200	68.113	0.00	0.00
ATOM	686	HD22	LEU	X	44	31.472	52.773	67.562	0.00	0.00
ATOM	687	HD23	LEU	X	44	29.948	53.649	67.146	0.00	0.00
ATOM	688	C	LEU	X	44	30.983	52.215	62.213	0.00	0.00
ATOM	689	O	LEU	X	44	32.029	52.356	61.499	0.00	0.00
ATOM	690	N	PRO	X	45	29.797	52.617	61.751	0.00	0.00
ATOM	691	CD	PRO	X	45	28.552	52.446	62.439	0.00	0.00
ATOM	692	HD2	PRO	X	45	28.476	52.896	63.429	0.00	0.00
ATOM	693	HD3	PRO	X	45	28.421	51.366	62.507	0.00	0.00
ATOM	694	CG	PRO	X	45	27.460	53.066	61.625	0.00	0.00
ATOM	695	HG2	PRO	X	45	27.215	54.096	61.883	0.00	0.00
ATOM	696	HG3	PRO	X	45	26.541	52.481	61.659	0.00	0.00
ATOM	697	CB	PRO	X	45	28.015	53.025	60.227	0.00	0.00
ATOM	698	HB2	PRO	X	45	27.552	53.831	59.658	0.00	0.00
ATOM	699	HB3	PRO	X	45	27.810	52.024	59.848	0.00	0.00
ATOM	700	CA	PRO	X	45	29.462	53.106	60.386	0.00	0.00
ATOM	701	HA	PRO	X	45	29.982	52.443	59.695	0.00	0.00
ATOM	702	C	PRO	X	45	29.983	54.532	60.086	0.00	0.00
ATOM	703	O	PRO	X	45	29.767	55.409	60.854	0.00	0.00
ATOM	704	N	PRO	X	46	30.415	54.789	58.881	0.00	0.00
ATOM	705	CD	PRO	X	46	30.552	53.895	57.763	0.00	0.00
ATOM	706	HD2	PRO	X	46	29.578	53.487	57.491	0.00	0.00
ATOM	707	HD3	PRO	X	46	31.261	53.068	57.793	0.00	0.00
ATOM	708	CG	PRO	X	46	31.044	54.714	56.584	0.00	0.00
ATOM	709	HG2	PRO	X	46	30.235	55.214	56.051	0.00	0.00
ATOM	710	HG3	PRO	X	46	31.691	54.166	55.900	0.00	0.00
ATOM	711	CB	PRO	X	46	31.868	55.716	57.354	0.00	0.00
ATOM	712	HB2	PRO	X	46	32.151	56.589	56.764	0.00	0.00
ATOM	713	HB3	PRO	X	46	32.724	55.248	57.840	0.00	0.00
ATOM	714	CA	PRO	X	46	30.968	56.064	58.531	0.00	0.00
ATOM	715	HA	PRO	X	46	31.619	56.464	59.308	0.00	0.00
ATOM	716	C	PRO	X	46	29.876	57.098	58.171	0.00	0.00
ATOM	717	O	PRO	X	46	28.696	56.797	58.018	0.00	0.00
ATOM	718	N	GLU	X	47	30.246	58.348	57.912	0.00	0.00
ATOM	719	H	GLU	X	47	31.233	58.558	57.949	0.00	0.00
ATOM	720	CA	GLU	X	47	29.357	59.521	57.767	0.00	0.00
ATOM	721	HA	GLU	X	47	28.368	59.229	57.415	0.00	0.00
ATOM	722	CB	GLU	X	47	28.917	60.093	59.181	0.00	0.00
ATOM	723	HB2	GLU	X	47	28.359	60.992	58.918	0.00	0.00
ATOM	724	HB3	GLU	X	47	28.251	59.342	59.606	0.00	0.00
ATOM	725	CG	GLU	X	47	30.007	60.333	60.166	0.00	0.00
ATOM	726	HG2	GLU	X	47	30.617	59.451	60.361	0.00	0.00
ATOM	727	HG3	GLU	X	47	30.759	61.026	59.789	0.00	0.00
ATOM	728	CD	GLU	X	47	29.497	60.767	61.541	0.00	0.00
ATOM	729	OE1	GLU	X	47	30.231	60.529	62.529	0.00	0.00
ATOM	730	OE2	GLU	X	47	28.330	61.127	61.681	0.00	0.00
ATOM	731	C	GLU	X	47	29.966	60.597	56.847	0.00	0.00
ATOM	732	O	GLU	X	47	31.190	60.809	56.865	0.00	0.00
ATOM	733	N	PRO	X	48	29.089	61.192	55.970	0.00	0.00
ATOM	734	CD	PRO	X	48	27.696	61.037	55.754	0.00	0.00
ATOM	735	HD2	PRO	X	48	27.097	61.211	56.647	0.00	0.00
ATOM	736	HD3	PRO	X	48	27.501	60.111	55.213	0.00	0.00
ATOM	737	CG	PRO	X	48	27.294	62.152	54.696	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.372	63.123	55.186	0.00	0.00
ATOM	739	HG3	PRO	X	48	26.351	61.936	54.194	0.00	0.00

ATOM	740	CB	PRO	X	48	28.519	62.052	53.787	0.00	0.00
ATOM	741	HB2	PRO	X	48	28.789	62.786	53.028	0.00	0.00
ATOM	742	HB3	PRO	X	48	28.554	61.081	53.294	0.00	0.00
ATOM	743	CA	PRO	X	48	29.654	61.943	54.779	0.00	0.00
ATOM	744	HA	PRO	X	48	30.344	61.283	54.252	0.00	0.00
ATOM	745	C	PRO	X	48	30.333	63.298	55.086	0.00	0.00
ATOM	746	O	PRO	X	48	30.065	63.847	56.173	0.00	0.00
ATOM	747	N	LYS	X	49	31.339	63.712	54.330	0.00	0.00
ATOM	748	H	LYS	X	49	31.601	63.259	53.466	0.00	0.00
ATOM	749	CA	LYS	X	49	32.204	64.869	54.723	0.00	0.00
ATOM	750	HA	LYS	X	49	32.518	64.591	55.729	0.00	0.00
ATOM	751	CB	LYS	X	49	33.394	64.922	53.744	0.00	0.00
ATOM	752	HB2	LYS	X	49	33.729	63.896	53.591	0.00	0.00
ATOM	753	HB3	LYS	X	49	33.069	65.261	52.761	0.00	0.00
ATOM	754	CG	LYS	X	49	34.619	65.821	54.257	0.00	0.00
ATOM	755	HG2	LYS	X	49	35.153	66.337	53.459	0.00	0.00
ATOM	756	HG3	LYS	X	49	34.340	66.639	54.921	0.00	0.00
ATOM	757	CD	LYS	X	49	35.659	65.010	55.005	0.00	0.00
ATOM	758	HD2	LYS	X	49	35.222	64.467	55.843	0.00	0.00
ATOM	759	HD3	LYS	X	49	36.172	64.282	54.377	0.00	0.00
ATOM	760	CE	LYS	X	49	36.843	65.757	55.598	0.00	0.00
ATOM	761	HE2	LYS	X	49	37.611	65.081	55.972	0.00	0.00
ATOM	762	HE3	LYS	X	49	37.363	66.323	54.825	0.00	0.00
ATOM	763	NZ	LYS	X	49	36.430	66.753	56.577	0.00	0.00
ATOM	764	HZ1	LYS	X	49	37.168	67.274	57.029	0.00	0.00
ATOM	765	HZ2	LYS	X	49	35.820	67.463	56.198	0.00	0.00
ATOM	766	HZ3	LYS	X	49	35.992	66.297	57.365	0.00	0.00
ATOM	767	C	LYS	X	49	31.498	66.222	54.814	0.00	0.00
ATOM	768	O	LYS	X	49	30.636	66.492	53.983	0.00	0.00
ATOM	769	N	GLN	X	50	31.823	66.994	55.806	0.00	0.00
ATOM	770	H	GLN	X	50	32.418	66.601	56.521	0.00	0.00
ATOM	771	CA	GLN	X	50	31.510	68.435	55.906	0.00	0.00
ATOM	772	HA	GLN	X	50	30.425	68.504	55.985	0.00	0.00
ATOM	773	CB	GLN	X	50	32.111	69.068	57.231	0.00	0.00
ATOM	774	HB2	GLN	X	50	33.069	68.595	57.443	0.00	0.00
ATOM	775	HB3	GLN	X	50	32.261	70.144	57.143	0.00	0.00
ATOM	776	CG	GLN	X	50	31.156	68.831	58.433	0.00	0.00
ATOM	777	HG2	GLN	X	50	30.877	67.778	58.452	0.00	0.00
ATOM	778	HG3	GLN	X	50	31.786	69.014	59.303	0.00	0.00
ATOM	779	CD	GLN	X	50	30.029	69.833	58.240	0.00	0.00
ATOM	780	OE1	GLN	X	50	28.992	69.478	57.628	0.00	0.00
ATOM	781	NE2	GLN	X	50	30.131	71.014	58.797	0.00	0.00
ATOM	782	HE21	GLN	X	50	29.406	71.706	58.672	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.940	71.333	59.312	0.00	0.00
ATOM	784	C	GLN	X	50	32.097	69.209	54.721	0.00	0.00
ATOM	785	O	GLN	X	50	33.029	68.740	54.026	0.00	0.00
ATOM	786	N	PRO	X	51	31.493	70.367	54.302	0.00	0.00
ATOM	787	CD	PRO	X	51	30.263	70.825	54.932	0.00	0.00
ATOM	788	HD2	PRO	X	51	30.368	71.135	55.971	0.00	0.00
ATOM	789	HD3	PRO	X	51	29.529	70.024	54.854	0.00	0.00
ATOM	790	CG	PRO	X	51	29.764	72.081	54.218	0.00	0.00
ATOM	791	HG2	PRO	X	51	30.406	72.887	54.575	0.00	0.00
ATOM	792	HG3	PRO	X	51	28.690	72.255	54.163	0.00	0.00
ATOM	793	CB	PRO	X	51	30.478	71.945	52.889	0.00	0.00
ATOM	794	HB2	PRO	X	51	30.633	72.929	52.447	0.00	0.00
ATOM	795	HB3	PRO	X	51	29.865	71.222	52.352	0.00	0.00
ATOM	796	CA	PRO	X	51	31.794	71.182	53.119	0.00	0.00
ATOM	797	HA	PRO	X	51	32.000	70.650	52.191	0.00	0.00
ATOM	798	C	PRO	X	51	32.938	72.155	53.582	0.00	0.00
ATOM	799	O	PRO	X	51	33.029	72.496	54.780	0.00	0.00
ATOM	800	N	TRP	X	52	33.820	72.547	52.630	0.00	0.00
ATOM	801	H	TRP	X	52	33.625	72.447	51.644	0.00	0.00
ATOM	802	CA	TRP	X	52	35.042	73.307	52.932	0.00	0.00
ATOM	803	HA	TRP	X	52	35.002	73.454	54.012	0.00	0.00
ATOM	804	CB	TRP	X	52	36.265	72.397	52.523	0.00	0.00
ATOM	805	HB2	TRP	X	52	37.147	73.033	52.602	0.00	0.00
ATOM	806	HB3	TRP	X	52	36.347	71.598	53.259	0.00	0.00
ATOM	807	CG	TRP	X	52	36.183	71.812	51.163	0.00	0.00
ATOM	808	CD1	TRP	X	52	36.531	72.561	50.039	0.00	0.00
ATOM	809	HD1	TRP	X	52	36.790	73.608	49.981	0.00	0.00

ATOM	810	NE1	TRP	X	52	36.351	71.698	48.957	0.00	0.00
ATOM	811	HE1	TRP	X	52	36.568	72.136	48.074	0.00	0.00
ATOM	812	CE2	TRP	X	52	35.744	70.546	49.233	0.00	0.00
ATOM	813	CZ2	TRP	X	52	35.321	69.485	48.478	0.00	0.00
ATOM	814	HZ2	TRP	X	52	35.310	69.638	47.409	0.00	0.00
ATOM	815	CH2	TRP	X	52	34.781	68.301	49.058	0.00	0.00
ATOM	816	HH2	TRP	X	52	34.397	67.443	48.526	0.00	0.00
ATOM	817	CZ3	TRP	X	52	34.817	68.283	50.464	0.00	0.00
ATOM	818	HZ3	TRP	X	52	34.385	67.418	50.946	0.00	0.00
ATOM	819	CE3	TRP	X	52	35.328	69.321	51.224	0.00	0.00
ATOM	820	HE3	TRP	X	52	35.310	69.208	52.298	0.00	0.00
ATOM	821	CD2	TRP	X	52	35.778	70.548	50.649	0.00	0.00
ATOM	822	C	TRP	X	52	35.170	74.667	52.244	0.00	0.00
ATOM	823	O	TRP	X	52	34.629	74.924	51.176	0.00	0.00
ATOM	824	N	SER	X	53	35.897	75.596	52.864	0.00	0.00
ATOM	825	H	SER	X	53	36.300	75.382	53.765	0.00	0.00
ATOM	826	CA	SER	X	53	35.964	76.968	52.403	0.00	0.00
ATOM	827	HA	SER	X	53	35.070	77.203	51.826	0.00	0.00
ATOM	828	CB	SER	X	53	36.162	77.949	53.550	0.00	0.00
ATOM	829	HB2	SER	X	53	37.022	77.735	54.185	0.00	0.00
ATOM	830	HB3	SER	X	53	36.415	78.957	53.223	0.00	0.00
ATOM	831	OG	SER	X	53	35.040	77.958	54.310	0.00	0.00
ATOM	832	HG	SER	X	53	35.022	78.700	54.918	0.00	0.00
ATOM	833	C	SER	X	53	37.144	77.166	51.435	0.00	0.00
ATOM	834	O	SER	X	53	38.239	76.843	51.800	0.00	0.00
ATOM	835	N	GLY	X	54	36.963	77.924	50.341	0.00	0.00
ATOM	836	H	GLY	X	54	36.121	78.436	50.119	0.00	0.00
ATOM	837	CA	GLY	X	54	38.032	78.254	49.401	0.00	0.00
ATOM	838	HA2	GLY	X	54	37.842	79.030	48.599	0.00	0.00
ATOM	839	HA3	GLY	X	54	38.979	78.422	49.893	0.00	0.00
ATOM	840	C	GLY	X	54	38.244	77.049	48.518	0.00	0.00
ATOM	841	O	GLY	X	54	37.484	76.090	48.519	0.00	0.00
ATOM	842	N	VAL	X	55	39.332	77.041	47.774	0.00	0.00
ATOM	843	H	VAL	X	55	39.927	77.847	47.903	0.00	0.00
ATOM	844	CA	VAL	X	55	39.807	75.957	46.955	0.00	0.00
ATOM	845	HA	VAL	X	55	38.994	75.363	46.535	0.00	0.00
ATOM	846	CB	VAL	X	55	40.477	76.442	45.675	0.00	0.00
ATOM	847	HB	VAL	X	55	41.322	77.061	45.979	0.00	0.00
ATOM	848	CG1	VAL	X	55	41.000	75.343	44.702	0.00	0.00
ATOM	849	HG11	VAL	X	55	40.192	75.006	44.053	0.00	0.00
ATOM	850	HG12	VAL	X	55	41.791	75.755	44.074	0.00	0.00
ATOM	851	HG13	VAL	X	55	41.503	74.519	45.208	0.00	0.00
ATOM	852	CG2	VAL	X	55	39.565	77.442	44.840	0.00	0.00
ATOM	853	HG21	VAL	X	55	39.946	77.666	43.843	0.00	0.00
ATOM	854	HG22	VAL	X	55	38.575	77.001	44.725	0.00	0.00
ATOM	855	HG23	VAL	X	55	39.375	78.356	45.403	0.00	0.00
ATOM	856	C	VAL	X	55	40.440	74.971	47.873	0.00	0.00
ATOM	857	O	VAL	X	55	41.482	75.283	48.487	0.00	0.00
ATOM	858	N	VAL	X	56	39.886	73.738	47.936	0.00	0.00
ATOM	859	H	VAL	X	56	39.158	73.463	47.291	0.00	0.00
ATOM	860	CA	VAL	X	56	40.657	72.537	48.445	0.00	0.00
ATOM	861	HA	VAL	X	56	41.393	72.791	49.208	0.00	0.00
ATOM	862	CB	VAL	X	56	39.767	71.398	48.997	0.00	0.00
ATOM	863	HB	VAL	X	56	38.878	71.516	48.377	0.00	0.00
ATOM	864	CG1	VAL	X	56	40.411	69.939	48.911	0.00	0.00
ATOM	865	HG11	VAL	X	56	41.391	69.979	49.386	0.00	0.00
ATOM	866	HG12	VAL	X	56	39.752	69.167	49.308	0.00	0.00
ATOM	867	HG13	VAL	X	56	40.576	69.661	47.870	0.00	0.00
ATOM	868	CG2	VAL	X	56	39.544	71.785	50.440	0.00	0.00
ATOM	869	HG21	VAL	X	56	38.795	71.119	50.869	0.00	0.00
ATOM	870	HG22	VAL	X	56	40.440	71.702	51.056	0.00	0.00
ATOM	871	HG23	VAL	X	56	39.228	72.826	50.513	0.00	0.00
ATOM	872	C	VAL	X	56	41.410	72.055	47.249	0.00	0.00
ATOM	873	O	VAL	X	56	40.816	72.045	46.134	0.00	0.00
ATOM	874	N	ASP	X	57	42.606	71.578	47.406	0.00	0.00
ATOM	875	H	ASP	X	57	42.904	71.588	48.371	0.00	0.00
ATOM	876	CA	ASP	X	57	43.511	70.983	46.439	0.00	0.00
ATOM	877	HA	ASP	X	57	43.286	71.497	45.504	0.00	0.00
ATOM	878	CB	ASP	X	57	44.930	71.371	46.884	0.00	0.00
ATOM	879	HB2	ASP	X	57	44.812	72.447	47.018	0.00	0.00

ATOM	880	HB3	ASP	X	57	45.300	70.938	47.813	0.00	0.00
ATOM	881	CG	ASP	X	57	45.930	71.023	45.750	0.00	0.00
ATOM	882	OD1	ASP	X	57	46.628	69.931	45.794	0.00	0.00
ATOM	883	OD2	ASP	X	57	46.242	71.937	44.932	0.00	0.00
ATOM	884	C	ASP	X	57	43.389	69.437	46.213	0.00	0.00
ATOM	885	O	ASP	X	57	43.452	68.691	47.214	0.00	0.00
ATOM	886	N	ALA	X	58	43.225	68.977	44.951	0.00	0.00
ATOM	887	H	ALA	X	58	43.039	69.683	44.253	0.00	0.00
ATOM	888	CA	ALA	X	58	43.045	67.582	44.617	0.00	0.00
ATOM	889	HA	ALA	X	58	43.043	67.012	45.546	0.00	0.00
ATOM	890	CB	ALA	X	58	41.600	67.295	44.326	0.00	0.00
ATOM	891	HB1	ALA	X	58	41.195	67.888	43.505	0.00	0.00
ATOM	892	HB2	ALA	X	58	41.393	66.229	44.239	0.00	0.00
ATOM	893	HB3	ALA	X	58	41.080	67.814	45.131	0.00	0.00
ATOM	894	C	ALA	X	58	44.045	67.009	43.592	0.00	0.00
ATOM	895	O	ALA	X	58	43.692	66.381	42.650	0.00	0.00
ATOM	896	N	THR	X	59	45.315	67.417	43.703	0.00	0.00
ATOM	897	H	THR	X	59	45.632	67.941	44.507	0.00	0.00
ATOM	898	CA	THR	X	59	46.451	67.216	42.800	0.00	0.00
ATOM	899	HA	THR	X	59	46.133	67.068	41.768	0.00	0.00
ATOM	900	CB	THR	X	59	47.364	68.488	42.835	0.00	0.00
ATOM	901	HB	THR	X	59	48.100	68.336	42.046	0.00	0.00
ATOM	902	CG2	THR	X	59	46.625	69.759	42.448	0.00	0.00
ATOM	903	HG21	THR	X	59	46.317	69.794	41.403	0.00	0.00
ATOM	904	HG22	THR	X	59	45.676	69.734	42.985	0.00	0.00
ATOM	905	HG23	THR	X	59	47.234	70.646	42.622	0.00	0.00
ATOM	906	OG1	THR	X	59	47.963	68.598	44.137	0.00	0.00
ATOM	907	HG1	THR	X	59	47.406	69.073	44.758	0.00	0.00
ATOM	908	C	THR	X	59	47.256	65.953	43.064	0.00	0.00
ATOM	909	O	THR	X	59	47.882	65.442	42.122	0.00	0.00
ATOM	910	N	THR	X	60	47.339	65.493	44.292	0.00	0.00
ATOM	911	H	THR	X	60	46.839	65.897	45.071	0.00	0.00
ATOM	912	CA	THR	X	60	48.213	64.332	44.749	0.00	0.00
ATOM	913	HA	THR	X	60	48.380	63.741	43.849	0.00	0.00
ATOM	914	CB	THR	X	60	49.597	64.880	45.326	0.00	0.00
ATOM	915	HB	THR	X	60	49.500	65.642	46.099	0.00	0.00
ATOM	916	CG2	THR	X	60	50.437	63.754	45.899	0.00	0.00
ATOM	917	HG21	THR	X	60	51.336	64.126	46.389	0.00	0.00
ATOM	918	HG22	THR	X	60	49.885	63.119	46.592	0.00	0.00
ATOM	919	HG23	THR	X	60	50.800	63.123	45.087	0.00	0.00
ATOM	920	OG1	THR	X	60	50.270	65.456	44.306	0.00	0.00
ATOM	921	HG1	THR	X	60	51.210	65.444	44.500	0.00	0.00
ATOM	922	C	THR	X	60	47.384	63.471	45.740	0.00	0.00
ATOM	923	O	THR	X	60	46.496	64.054	46.412	0.00	0.00
ATOM	924	N	PHE	X	61	47.649	62.181	45.805	0.00	0.00
ATOM	925	H	PHE	X	61	48.405	61.658	45.387	0.00	0.00
ATOM	926	CA	PHE	X	61	46.806	61.460	46.851	0.00	0.00
ATOM	927	HA	PHE	X	61	45.779	61.743	46.620	0.00	0.00
ATOM	928	CB	PHE	X	61	46.949	59.942	46.573	0.00	0.00
ATOM	929	HB2	PHE	X	61	46.899	59.740	45.503	0.00	0.00
ATOM	930	HB3	PHE	X	61	47.944	59.722	46.959	0.00	0.00
ATOM	931	CG	PHE	X	61	45.870	59.190	47.367	0.00	0.00
ATOM	932	CD1	PHE	X	61	46.140	58.613	48.676	0.00	0.00
ATOM	933	HD1	PHE	X	61	47.134	58.633	49.099	0.00	0.00
ATOM	934	CE1	PHE	X	61	45.055	58.079	49.411	0.00	0.00
ATOM	935	HE1	PHE	X	61	45.180	57.633	50.387	0.00	0.00
ATOM	936	CZ	PHE	X	61	43.803	58.003	48.816	0.00	0.00
ATOM	937	HZ	PHE	X	61	43.019	57.531	49.389	0.00	0.00
ATOM	938	CE2	PHE	X	61	43.516	58.563	47.545	0.00	0.00
ATOM	939	HE2	PHE	X	61	42.560	58.470	47.051	0.00	0.00
ATOM	940	CD2	PHE	X	61	44.610	59.164	46.840	0.00	0.00
ATOM	941	HD2	PHE	X	61	44.420	59.568	45.857	0.00	0.00
ATOM	942	C	PHE	X	61	47.236	61.934	48.252	0.00	0.00
ATOM	943	O	PHE	X	61	48.276	62.559	48.550	0.00	0.00
ATOM	944	N	GLN	X	62	46.493	61.505	49.230	0.00	0.00
ATOM	945	H	GLN	X	62	45.839	60.774	48.991	0.00	0.00
ATOM	946	CA	GLN	X	62	46.754	61.917	50.624	0.00	0.00
ATOM	947	HA	GLN	X	62	47.522	62.691	50.619	0.00	0.00
ATOM	948	CB	GLN	X	62	45.397	62.448	51.222	0.00	0.00
ATOM	949	HB2	GLN	X	62	44.600	61.715	51.095	0.00	0.00

ATOM	950	HB3	GLN	X	62	45.533	62.497	52.302	0.00	0.00
ATOM	951	CG	GLN	X	62	44.965	63.814	50.730	0.00	0.00
ATOM	952	HG2	GLN	X	62	44.858	63.642	49.659	0.00	0.00
ATOM	953	HG3	GLN	X	62	43.981	63.969	51.173	0.00	0.00
ATOM	954	CD	GLN	X	62	45.945	65.077	50.913	0.00	0.00
ATOM	955	OE1	GLN	X	62	46.995	64.943	51.499	0.00	0.00
ATOM	956	NE2	GLN	X	62	45.484	66.173	50.425	0.00	0.00
ATOM	957	HE21	GLN	X	62	45.932	67.054	50.634	0.00	0.00
ATOM	958	HE22	GLN	X	62	44.570	66.224	49.998	0.00	0.00
ATOM	959	C	GLN	X	62	47.394	60.724	51.313	0.00	0.00
ATOM	960	O	GLN	X	62	48.487	60.228	50.956	0.00	0.00
ATOM	961	N	SER	X	63	46.680	60.208	52.245	0.00	0.00
ATOM	962	H	SER	X	63	45.801	60.679	52.407	0.00	0.00
ATOM	963	CA	SER	X	63	47.158	59.132	53.105	0.00	0.00
ATOM	964	HA	SER	X	63	48.068	58.709	52.679	0.00	0.00
ATOM	965	CB	SER	X	63	47.302	59.680	54.539	0.00	0.00
ATOM	966	HB2	SER	X	63	47.604	58.962	55.301	0.00	0.00
ATOM	967	HB3	SER	X	63	48.078	60.442	54.481	0.00	0.00
ATOM	968	OG	SER	X	63	46.181	60.364	55.068	0.00	0.00
ATOM	969	HG	SER	X	63	45.593	59.663	55.356	0.00	0.00
ATOM	970	C	SER	X	63	46.250	57.888	53.282	0.00	0.00
ATOM	971	O	SER	X	63	45.055	58.062	52.865	0.00	0.00
ATOM	972	N	VAL	X	64	46.769	56.759	53.694	0.00	0.00
ATOM	973	H	VAL	X	64	47.697	56.763	54.093	0.00	0.00
ATOM	974	CA	VAL	X	64	46.203	55.474	53.298	0.00	0.00
ATOM	975	HA	VAL	X	64	45.216	55.613	52.857	0.00	0.00
ATOM	976	CB	VAL	X	64	47.251	54.705	52.380	0.00	0.00
ATOM	977	HB	VAL	X	64	48.223	54.873	52.844	0.00	0.00
ATOM	978	CG1	VAL	X	64	46.906	53.159	52.134	0.00	0.00
ATOM	979	HG11	VAL	X	64	45.947	53.106	51.617	0.00	0.00
ATOM	980	HG12	VAL	X	64	47.620	52.630	51.502	0.00	0.00
ATOM	981	HG13	VAL	X	64	47.044	52.596	53.057	0.00	0.00
ATOM	982	CG2	VAL	X	64	47.370	55.306	50.958	0.00	0.00
ATOM	983	HG21	VAL	X	64	47.686	56.342	51.082	0.00	0.00
ATOM	984	HG22	VAL	X	64	48.161	54.786	50.417	0.00	0.00
ATOM	985	HG23	VAL	X	64	46.458	55.233	50.365	0.00	0.00
ATOM	986	C	VAL	X	64	45.924	54.596	54.554	0.00	0.00
ATOM	987	O	VAL	X	64	46.583	54.741	55.634	0.00	0.00
ATOM	988	N	CYX	X	65	44.908	53.732	54.572	0.00	0.00
ATOM	989	H	CYX	X	65	44.280	53.671	53.783	0.00	0.00
ATOM	990	CA	CYX	X	65	44.445	53.052	55.844	0.00	0.00
ATOM	991	HA	CYX	X	65	44.215	53.728	56.667	0.00	0.00
ATOM	992	CB	CYX	X	65	43.167	52.257	55.634	0.00	0.00
ATOM	993	HB2	CYX	X	65	43.285	51.572	54.794	0.00	0.00
ATOM	994	HB3	CYX	X	65	42.960	51.620	56.493	0.00	0.00
ATOM	995	SG	CYX	X	65	41.649	53.215	55.334	0.00	0.00
ATOM	996	C	CYX	X	65	45.467	52.071	56.337	0.00	0.00
ATOM	997	O	CYX	X	65	46.032	51.343	55.513	0.00	0.00
ATOM	998	N	TYR	X	66	45.735	52.033	57.649	0.00	0.00
ATOM	999	H	TYR	X	66	45.372	52.893	58.036	0.00	0.00
ATOM	1000	CA	TYR	X	66	46.806	51.307	58.303	0.00	0.00
ATOM	1001	HA	TYR	X	66	47.722	51.671	57.839	0.00	0.00
ATOM	1002	CB	TYR	X	66	46.901	51.530	59.775	0.00	0.00
ATOM	1003	HB2	TYR	X	66	45.904	51.775	60.140	0.00	0.00
ATOM	1004	HB3	TYR	X	66	47.218	50.609	60.263	0.00	0.00
ATOM	1005	CG	TYR	X	66	47.827	52.582	60.247	0.00	0.00
ATOM	1006	CD1	TYR	X	66	47.223	53.742	60.761	0.00	0.00
ATOM	1007	HD1	TYR	X	66	46.147	53.736	60.675	0.00	0.00
ATOM	1008	CE1	TYR	X	66	48.047	54.671	61.356	0.00	0.00
ATOM	1009	HE1	TYR	X	66	47.628	55.575	61.773	0.00	0.00
ATOM	1010	CZ	TYR	X	66	49.474	54.552	61.357	0.00	0.00
ATOM	1011	OH	TYR	X	66	50.270	55.443	62.029	0.00	0.00
ATOM	1012	HH	TYR	X	66	49.719	56.120	62.427	0.00	0.00
ATOM	1013	CE2	TYR	X	66	50.121	53.463	60.680	0.00	0.00
ATOM	1014	HE2	TYR	X	66	51.200	53.428	60.678	0.00	0.00
ATOM	1015	CD2	TYR	X	66	49.246	52.458	60.206	0.00	0.00
ATOM	1016	HD2	TYR	X	66	49.684	51.575	59.763	0.00	0.00
ATOM	1017	C	TYR	X	66	46.564	49.822	57.992	0.00	0.00
ATOM	1018	O	TYR	X	66	45.430	49.288	58.028	0.00	0.00
ATOM	1019	N	GLN	X	67	47.644	49.149	57.644	0.00	0.00

ATOM	1020	H	GLN	X	67	48.541	49.563	57.852	0.00	0.00
ATOM	1021	CA	GLN	X	67	47.648	47.874	57.001	0.00	0.00
ATOM	1022	HA	GLN	X	67	47.015	47.195	57.572	0.00	0.00
ATOM	1023	CB	GLN	X	67	47.079	47.951	55.572	0.00	0.00
ATOM	1024	HB2	GLN	X	67	46.830	46.958	55.200	0.00	0.00
ATOM	1025	HB3	GLN	X	67	46.062	48.321	55.704	0.00	0.00
ATOM	1026	CG	GLN	X	67	48.081	48.682	54.530	0.00	0.00
ATOM	1027	HG2	GLN	X	67	48.372	49.613	55.015	0.00	0.00
ATOM	1028	HG3	GLN	X	67	48.969	48.059	54.420	0.00	0.00
ATOM	1029	CD	GLN	X	67	47.515	48.865	53.173	0.00	0.00
ATOM	1030	OE1	GLN	X	67	48.030	48.351	52.176	0.00	0.00
ATOM	1031	NE2	GLN	X	67	46.484	49.681	53.038	0.00	0.00
ATOM	1032	HE21	GLN	X	67	46.140	49.756	52.092	0.00	0.00
ATOM	1033	HE22	GLN	X	67	46.113	50.180	53.834	0.00	0.00
ATOM	1034	C	GLN	X	67	49.059	47.217	56.987	0.00	0.00
ATOM	1035	O	GLN	X	67	50.065	47.842	57.224	0.00	0.00
ATOM	1036	N	TYR	X	68	49.093	45.861	56.819	0.00	0.00
ATOM	1037	H	TYR	X	68	48.236	45.349	56.667	0.00	0.00
ATOM	1038	CA	TYR	X	68	50.376	45.191	56.983	0.00	0.00
ATOM	1039	HA	TYR	X	68	50.973	45.798	57.664	0.00	0.00
ATOM	1040	CB	TYR	X	68	50.225	43.676	57.533	0.00	0.00
ATOM	1041	HB2	TYR	X	68	49.663	43.904	58.439	0.00	0.00
ATOM	1042	HB3	TYR	X	68	49.799	43.084	56.723	0.00	0.00
ATOM	1043	CG	TYR	X	68	51.454	42.853	57.816	0.00	0.00
ATOM	1044	CD1	TYR	X	68	52.084	43.003	59.056	0.00	0.00
ATOM	1045	HD1	TYR	X	68	51.513	43.549	59.792	0.00	0.00
ATOM	1046	CE1	TYR	X	68	53.251	42.299	59.446	0.00	0.00
ATOM	1047	HE1	TYR	X	68	53.622	42.329	60.459	0.00	0.00
ATOM	1048	CZ	TYR	X	68	53.915	41.570	58.449	0.00	0.00
ATOM	1049	OH	TYR	X	68	55.066	40.886	58.669	0.00	0.00
ATOM	1050	HH	TYR	X	68	55.506	41.046	59.508	0.00	0.00
ATOM	1051	CE2	TYR	X	68	53.310	41.503	57.120	0.00	0.00
ATOM	1052	HE2	TYR	X	68	53.858	41.010	56.330	0.00	0.00
ATOM	1053	CD2	TYR	X	68	52.038	42.101	56.861	0.00	0.00
ATOM	1054	HD2	TYR	X	68	51.530	42.047	55.909	0.00	0.00
ATOM	1055	C	TYR	X	68	51.156	45.187	55.731	0.00	0.00
ATOM	1056	O	TYR	X	68	50.594	45.180	54.662	0.00	0.00
ATOM	1057	N	VAL	X	69	52.493	45.233	55.735	0.00	0.00
ATOM	1058	H	VAL	X	69	52.930	45.318	56.641	0.00	0.00
ATOM	1059	CA	VAL	X	69	53.307	45.529	54.600	0.00	0.00
ATOM	1060	HA	VAL	X	69	52.689	45.607	53.706	0.00	0.00
ATOM	1061	CB	VAL	X	69	54.015	46.900	54.815	0.00	0.00
ATOM	1062	HB	VAL	X	69	54.646	46.757	55.692	0.00	0.00
ATOM	1063	CG1	VAL	X	69	54.948	47.178	53.644	0.00	0.00
ATOM	1064	HG11	VAL	X	69	55.488	48.123	53.704	0.00	0.00
ATOM	1065	HG12	VAL	X	69	55.653	46.368	53.459	0.00	0.00
ATOM	1066	HG13	VAL	X	69	54.453	47.398	52.698	0.00	0.00
ATOM	1067	CG2	VAL	X	69	53.020	48.056	55.055	0.00	0.00
ATOM	1068	HG21	VAL	X	69	52.095	47.852	54.516	0.00	0.00
ATOM	1069	HG22	VAL	X	69	52.747	48.229	56.096	0.00	0.00
ATOM	1070	HG23	VAL	X	69	53.338	48.994	54.599	0.00	0.00
ATOM	1071	C	VAL	X	69	54.268	44.343	54.411	0.00	0.00
ATOM	1072	O	VAL	X	69	55.110	44.000	55.198	0.00	0.00
ATOM	1073	N	ASP	X	70	53.980	43.705	53.262	0.00	0.00
ATOM	1074	H	ASP	X	70	53.255	44.043	52.645	0.00	0.00
ATOM	1075	CA	ASP	X	70	54.503	42.322	52.879	0.00	0.00
ATOM	1076	HA	ASP	X	70	53.871	41.746	53.555	0.00	0.00
ATOM	1077	CB	ASP	X	70	54.191	41.920	51.448	0.00	0.00
ATOM	1078	HB2	ASP	X	70	53.169	42.292	51.372	0.00	0.00
ATOM	1079	HB3	ASP	X	70	54.883	42.383	50.744	0.00	0.00
ATOM	1080	CG	ASP	X	70	54.238	40.395	51.271	0.00	0.00
ATOM	1081	OD1	ASP	X	70	53.169	39.771	51.361	0.00	0.00
ATOM	1082	OD2	ASP	X	70	55.335	39.820	51.126	0.00	0.00
ATOM	1083	C	ASP	X	70	56.055	42.061	53.087	0.00	0.00
ATOM	1084	O	ASP	X	70	56.731	42.940	52.639	0.00	0.00
ATOM	1085	N	THR	X	71	56.442	40.967	53.831	0.00	0.00
ATOM	1086	H	THR	X	71	55.768	40.338	54.243	0.00	0.00
ATOM	1087	CA	THR	X	71	57.865	40.718	54.160	0.00	0.00
ATOM	1088	HA	THR	X	71	58.395	41.624	53.868	0.00	0.00
ATOM	1089	CB	THR	X	71	58.012	40.472	55.682	0.00	0.00

ATOM	1090	HB	THR	X	71	59.058	40.267	55.908	0.00	0.00
ATOM	1091	CG2	THR	X	71	57.689	41.675	56.526	0.00	0.00
ATOM	1092	HG21	THR	X	71	57.813	41.456	57.587	0.00	0.00
ATOM	1093	HG22	THR	X	71	58.429	42.447	56.320	0.00	0.00
ATOM	1094	HG23	THR	X	71	56.666	41.946	56.265	0.00	0.00
ATOM	1095	OG1	THR	X	71	57.317	39.295	56.131	0.00	0.00
ATOM	1096	HG1	THR	X	71	58.024	38.753	56.489	0.00	0.00
ATOM	1097	C	THR	X	71	58.557	39.623	53.411	0.00	0.00
ATOM	1098	O	THR	X	71	59.748	39.514	53.596	0.00	0.00
ATOM	1099	N	LEU	X	72	57.876	38.776	52.749	0.00	0.00
ATOM	1100	H	LEU	X	72	56.919	39.071	52.619	0.00	0.00
ATOM	1101	CA	LEU	X	72	58.385	37.713	51.901	0.00	0.00
ATOM	1102	HA	LEU	X	72	59.151	37.235	52.512	0.00	0.00
ATOM	1103	CB	LEU	X	72	57.270	36.711	51.654	0.00	0.00
ATOM	1104	HB2	LEU	X	72	56.701	36.465	52.551	0.00	0.00
ATOM	1105	HB3	LEU	X	72	56.529	37.205	51.026	0.00	0.00
ATOM	1106	CG	LEU	X	72	57.820	35.445	50.998	0.00	0.00
ATOM	1107	HG	LEU	X	72	58.449	35.581	50.119	0.00	0.00
ATOM	1108	CD1	LEU	X	72	58.703	34.629	52.003	0.00	0.00
ATOM	1109	HD11	LEU	X	72	59.596	35.229	52.172	0.00	0.00
ATOM	1110	HD12	LEU	X	72	58.084	34.461	52.884	0.00	0.00
ATOM	1111	HD13	LEU	X	72	59.093	33.693	51.602	0.00	0.00
ATOM	1112	CD2	LEU	X	72	56.620	34.520	50.662	0.00	0.00
ATOM	1113	HD21	LEU	X	72	55.903	34.523	51.483	0.00	0.00
ATOM	1114	HD22	LEU	X	72	56.060	34.924	49.819	0.00	0.00
ATOM	1115	HD23	LEU	X	72	56.922	33.510	50.386	0.00	0.00
ATOM	1116	C	LEU	X	72	58.994	38.303	50.595	0.00	0.00
ATOM	1117	O	LEU	X	72	60.069	37.839	50.237	0.00	0.00
ATOM	1118	N	TYR	X	73	58.314	39.248	49.911	0.00	0.00
ATOM	1119	H	TYR	X	73	57.484	39.618	50.352	0.00	0.00
ATOM	1120	CA	TYR	X	73	58.779	39.915	48.706	0.00	0.00
ATOM	1121	HA	TYR	X	73	59.841	39.717	48.562	0.00	0.00
ATOM	1122	CB	TYR	X	73	58.051	39.259	47.466	0.00	0.00
ATOM	1123	HB2	TYR	X	73	57.036	39.643	47.365	0.00	0.00
ATOM	1124	HB3	TYR	X	73	58.560	39.688	46.604	0.00	0.00
ATOM	1125	CG	TYR	X	73	58.121	37.733	47.378	0.00	0.00
ATOM	1126	CD1	TYR	X	73	59.425	37.162	47.402	0.00	0.00
ATOM	1127	HD1	TYR	X	73	60.305	37.725	47.130	0.00	0.00
ATOM	1128	CE1	TYR	X	73	59.648	35.757	47.449	0.00	0.00
ATOM	1129	HE1	TYR	X	73	60.683	35.450	47.463	0.00	0.00
ATOM	1130	CZ	TYR	X	73	58.552	34.920	47.475	0.00	0.00
ATOM	1131	OH	TYR	X	73	58.752	33.574	47.574	0.00	0.00
ATOM	1132	HH	TYR	X	73	57.896	33.183	47.385	0.00	0.00
ATOM	1133	CE2	TYR	X	73	57.240	35.479	47.239	0.00	0.00
ATOM	1134	HE2	TYR	X	73	56.347	34.871	47.263	0.00	0.00
ATOM	1135	CD2	TYR	X	73	57.030	36.869	47.129	0.00	0.00
ATOM	1136	HD2	TYR	X	73	56.017	37.241	47.100	0.00	0.00
ATOM	1137	C	TYR	X	73	58.701	41.458	48.779	0.00	0.00
ATOM	1138	O	TYR	X	73	57.808	42.036	48.139	0.00	0.00
ATOM	1139	N	PRO	X	74	59.629	42.142	49.586	0.00	0.00
ATOM	1140	CD	PRO	X	74	60.685	41.521	50.352	0.00	0.00
ATOM	1141	HD2	PRO	X	74	61.600	41.337	49.789	0.00	0.00
ATOM	1142	HD3	PRO	X	74	60.378	40.581	50.809	0.00	0.00
ATOM	1143	CG	PRO	X	74	60.992	42.584	51.461	0.00	0.00
ATOM	1144	HG2	PRO	X	74	62.006	42.419	51.825	0.00	0.00
ATOM	1145	HG3	PRO	X	74	60.259	42.546	52.267	0.00	0.00
ATOM	1146	CB	PRO	X	74	60.853	43.882	50.642	0.00	0.00
ATOM	1147	HB2	PRO	X	74	61.739	43.984	50.015	0.00	0.00
ATOM	1148	HB3	PRO	X	74	60.659	44.790	51.213	0.00	0.00
ATOM	1149	CA	PRO	X	74	59.721	43.628	49.741	0.00	0.00
ATOM	1150	HA	PRO	X	74	58.753	43.961	50.118	0.00	0.00
ATOM	1151	C	PRO	X	74	59.978	44.371	48.453	0.00	0.00
ATOM	1152	O	PRO	X	74	60.747	43.954	47.610	0.00	0.00
ATOM	1153	N	GLY	X	75	59.323	45.507	48.298	0.00	0.00
ATOM	1154	H	GLY	X	75	58.650	45.751	49.010	0.00	0.00
ATOM	1155	CA	GLY	X	75	59.512	46.413	47.191	0.00	0.00
ATOM	1156	HA2	GLY	X	75	59.074	47.387	47.357	0.00	0.00
ATOM	1157	HA3	GLY	X	75	60.594	46.643	47.066	0.00	0.00
ATOM	1158	C	GLY	X	75	59.057	45.820	45.845	0.00	0.00
ATOM	1159	O	GLY	X	75	59.297	46.466	44.825	0.00	0.00

ATOM	1160	N	PHE	X	76	58.577	44.576	45.756	0.00	0.00
ATOM	1161	H	PHE	X	76	58.254	44.082	46.575	0.00	0.00
ATOM	1162	CA	PHE	X	76	58.726	43.700	44.596	0.00	0.00
ATOM	1163	HA	PHE	X	76	59.669	44.025	44.158	0.00	0.00
ATOM	1164	CB	PHE	X	76	58.867	42.226	45.014	0.00	0.00
ATOM	1165	HB2	PHE	X	76	59.650	41.991	45.734	0.00	0.00
ATOM	1166	HB3	PHE	X	76	57.908	41.923	45.436	0.00	0.00
ATOM	1167	CG	PHE	X	76	59.039	41.355	43.771	0.00	0.00
ATOM	1168	CD1	PHE	X	76	60.214	41.532	43.048	0.00	0.00
ATOM	1169	HD1	PHE	X	76	60.829	42.405	43.210	0.00	0.00
ATOM	1170	CE1	PHE	X	76	60.399	40.829	41.874	0.00	0.00
ATOM	1171	HE1	PHE	X	76	61.076	41.176	41.107	0.00	0.00
ATOM	1172	CZ	PHE	X	76	59.463	39.858	41.499	0.00	0.00
ATOM	1173	HZ	PHE	X	76	59.619	39.454	40.509	0.00	0.00
ATOM	1174	CE2	PHE	X	76	58.356	39.581	42.283	0.00	0.00
ATOM	1175	HE2	PHE	X	76	57.684	38.800	41.957	0.00	0.00
ATOM	1176	CD2	PHE	X	76	58.129	40.321	43.469	0.00	0.00
ATOM	1177	HD2	PHE	X	76	57.411	40.057	44.231	0.00	0.00
ATOM	1178	C	PHE	X	76	57.548	43.893	43.657	0.00	0.00
ATOM	1179	O	PHE	X	76	56.557	44.517	43.969	0.00	0.00
ATOM	1180	N	GLU	X	77	57.640	43.447	42.371	0.00	0.00
ATOM	1181	H	GLU	X	77	58.538	43.028	42.174	0.00	0.00
ATOM	1182	CA	GLU	X	77	56.705	43.418	41.283	0.00	0.00
ATOM	1183	HA	GLU	X	77	56.333	44.425	41.097	0.00	0.00
ATOM	1184	CB	GLU	X	77	57.538	43.031	40.051	0.00	0.00
ATOM	1185	HB2	GLU	X	77	58.401	43.696	40.081	0.00	0.00
ATOM	1186	HB3	GLU	X	77	57.826	41.992	40.212	0.00	0.00
ATOM	1187	CG	GLU	X	77	56.834	43.149	38.712	0.00	0.00
ATOM	1188	HG2	GLU	X	77	55.939	42.528	38.687	0.00	0.00
ATOM	1189	HG3	GLU	X	77	56.537	44.192	38.607	0.00	0.00
ATOM	1190	CD	GLU	X	77	57.710	42.736	37.618	0.00	0.00
ATOM	1191	OE1	GLU	X	77	58.254	43.609	36.894	0.00	0.00
ATOM	1192	OE2	GLU	X	77	57.874	41.533	37.323	0.00	0.00
ATOM	1193	C	GLU	X	77	55.482	42.482	41.606	0.00	0.00
ATOM	1194	O	GLU	X	77	54.461	42.731	41.014	0.00	0.00
ATOM	1195	N	GLY	X	78	55.569	41.582	42.558	0.00	0.00
ATOM	1196	H	GLY	X	78	56.470	41.334	42.940	0.00	0.00
ATOM	1197	CA	GLY	X	78	54.443	40.807	43.021	0.00	0.00
ATOM	1198	HA2	GLY	X	78	53.714	40.577	42.212	0.00	0.00
ATOM	1199	HA3	GLY	X	78	54.854	39.826	43.301	0.00	0.00
ATOM	1200	C	GLY	X	78	53.712	41.479	44.188	0.00	0.00
ATOM	1201	O	GLY	X	78	52.701	40.950	44.660	0.00	0.00
ATOM	1202	N	THR	X	79	54.184	42.577	44.782	0.00	0.00
ATOM	1203	H	THR	X	79	54.956	43.059	44.344	0.00	0.00
ATOM	1204	CA	THR	X	79	53.471	43.134	45.935	0.00	0.00
ATOM	1205	HA	THR	X	79	52.575	42.565	46.186	0.00	0.00
ATOM	1206	CB	THR	X	79	54.296	42.978	47.225	0.00	0.00
ATOM	1207	HB	THR	X	79	53.732	43.405	48.054	0.00	0.00
ATOM	1208	CG2	THR	X	79	54.529	41.508	47.611	0.00	0.00
ATOM	1209	HG21	THR	X	79	53.581	40.986	47.483	0.00	0.00
ATOM	1210	HG22	THR	X	79	55.323	41.126	46.969	0.00	0.00
ATOM	1211	HG23	THR	X	79	54.867	41.417	48.643	0.00	0.00
ATOM	1212	OG1	THR	X	79	55.586	43.632	47.219	0.00	0.00
ATOM	1213	HG1	THR	X	79	56.136	43.131	47.826	0.00	0.00
ATOM	1214	C	THR	X	79	53.104	44.605	45.763	0.00	0.00
ATOM	1215	O	THR	X	79	52.030	44.988	46.184	0.00	0.00
ATOM	1216	N	GLU	X	80	53.862	45.398	45.043	0.00	0.00
ATOM	1217	H	GLU	X	80	54.786	45.029	44.871	0.00	0.00
ATOM	1218	CA	GLU	X	80	53.774	46.897	45.054	0.00	0.00
ATOM	1219	HA	GLU	X	80	53.832	47.117	46.120	0.00	0.00
ATOM	1220	CB	GLU	X	80	55.029	47.441	44.321	0.00	0.00
ATOM	1221	HB2	GLU	X	80	54.856	48.511	44.441	0.00	0.00
ATOM	1222	HB3	GLU	X	80	55.986	47.299	44.822	0.00	0.00
ATOM	1223	CG	GLU	X	80	55.219	47.084	42.840	0.00	0.00
ATOM	1224	HG2	GLU	X	80	55.431	46.017	42.760	0.00	0.00
ATOM	1225	HG3	GLU	X	80	54.373	47.426	42.244	0.00	0.00
ATOM	1226	CD	GLU	X	80	56.518	47.853	42.366	0.00	0.00
ATOM	1227	OE1	GLU	X	80	57.285	47.295	41.609	0.00	0.00
ATOM	1228	OE2	GLU	X	80	56.610	49.092	42.574	0.00	0.00
ATOM	1229	C	GLU	X	80	52.420	47.514	44.524	0.00	0.00

ATOM	1230	O	GLU	X	80	51.992	48.543	44.999	0.00	0.00
ATOM	1231	N	MET	X	81	51.863	46.894	43.459	0.00	0.00
ATOM	1232	H	MET	X	81	52.276	46.007	43.210	0.00	0.00
ATOM	1233	CA	MET	X	81	50.529	47.131	43.000	0.00	0.00
ATOM	1234	HA	MET	X	81	50.480	48.219	42.978	0.00	0.00
ATOM	1235	CB	MET	X	81	50.320	46.462	41.611	0.00	0.00
ATOM	1236	HB2	MET	X	81	49.380	46.652	41.094	0.00	0.00
ATOM	1237	HB3	MET	X	81	51.117	46.748	40.925	0.00	0.00
ATOM	1238	CG	MET	X	81	50.343	44.901	41.815	0.00	0.00
ATOM	1239	HG2	MET	X	81	49.496	44.631	42.446	0.00	0.00
ATOM	1240	HG3	MET	X	81	50.018	44.400	40.903	0.00	0.00
ATOM	1241	SD	MET	X	81	51.804	44.035	42.280	0.00	0.00
ATOM	1242	CE	MET	X	81	51.374	42.470	41.620	0.00	0.00
ATOM	1243	HE1	MET	X	81	51.675	42.455	40.573	0.00	0.00
ATOM	1244	HE2	MET	X	81	51.982	41.671	42.043	0.00	0.00
ATOM	1245	HE3	MET	X	81	50.305	42.260	41.656	0.00	0.00
ATOM	1246	C	MET	X	81	49.335	46.814	43.874	0.00	0.00
ATOM	1247	O	MET	X	81	48.266	47.246	43.476	0.00	0.00
ATOM	1248	N	TRP	X	82	49.516	46.185	44.989	0.00	0.00
ATOM	1249	H	TRP	X	82	50.357	45.635	45.089	0.00	0.00
ATOM	1250	CA	TRP	X	82	48.394	45.998	45.979	0.00	0.00
ATOM	1251	HA	TRP	X	82	47.687	46.828	45.963	0.00	0.00
ATOM	1252	CB	TRP	X	82	47.412	44.930	45.569	0.00	0.00
ATOM	1253	HB2	TRP	X	82	46.762	44.625	46.389	0.00	0.00
ATOM	1254	HB3	TRP	X	82	46.761	45.364	44.809	0.00	0.00
ATOM	1255	CG	TRP	X	82	47.990	43.640	45.158	0.00	0.00
ATOM	1256	CD1	TRP	X	82	49.268	43.200	45.312	0.00	0.00
ATOM	1257	HD1	TRP	X	82	50.040	43.778	45.798	0.00	0.00
ATOM	1258	NE1	TRP	X	82	49.482	42.064	44.676	0.00	0.00
ATOM	1259	HE1	TRP	X	82	50.357	41.561	44.618	0.00	0.00
ATOM	1260	CE2	TRP	X	82	48.326	41.546	44.106	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	47.964	40.352	43.441	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	48.660	39.539	43.295	0.00	0.00
ATOM	1263	CH2	TRP	X	82	46.644	40.194	43.008	0.00	0.00
ATOM	1264	HH2	TRP	X	82	46.285	39.294	42.530	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	45.671	41.236	43.152	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	44.665	41.053	42.804	0.00	0.00
ATOM	1267	CE3	TRP	X	82	46.014	42.397	43.802	0.00	0.00
ATOM	1268	HE3	TRP	X	82	45.210	43.076	44.043	0.00	0.00
ATOM	1269	CD2	TRP	X	82	47.353	42.617	44.332	0.00	0.00
ATOM	1270	C	TRP	X	82	48.926	45.947	47.400	0.00	0.00
ATOM	1271	O	TRP	X	82	48.444	45.188	48.247	0.00	0.00
ATOM	1272	N	ASN	X	83	50.018	46.544	47.692	0.00	0.00
ATOM	1273	H	ASN	X	83	50.505	47.052	46.967	0.00	0.00
ATOM	1274	CA	ASN	X	83	50.586	46.647	49.082	0.00	0.00
ATOM	1275	HA	ASN	X	83	49.784	46.583	49.818	0.00	0.00
ATOM	1276	CB	ASN	X	83	51.505	45.428	49.293	0.00	0.00
ATOM	1277	HB2	ASN	X	83	50.956	44.502	49.124	0.00	0.00
ATOM	1278	HB3	ASN	X	83	52.388	45.659	48.698	0.00	0.00
ATOM	1279	CG	ASN	X	83	51.922	45.347	50.742	0.00	0.00
ATOM	1280	OD1	ASN	X	83	53.097	45.477	51.138	0.00	0.00
ATOM	1281	ND2	ASN	X	83	50.972	45.041	51.636	0.00	0.00
ATOM	1282	HD21	ASN	X	83	51.119	45.137	52.630	0.00	0.00
ATOM	1283	HD22	ASN	X	83	50.068	44.898	51.210	0.00	0.00
ATOM	1284	C	ASN	X	83	51.229	48.038	49.170	0.00	0.00
ATOM	1285	O	ASN	X	83	51.782	48.461	48.193	0.00	0.00
ATOM	1286	N	PRO	X	84	51.127	48.900	50.266	0.00	0.00
ATOM	1287	CD	PRO	X	84	51.129	48.527	51.678	0.00	0.00
ATOM	1288	HD2	PRO	X	84	51.971	47.858	51.857	0.00	0.00
ATOM	1289	HD3	PRO	X	84	50.297	47.855	51.890	0.00	0.00
ATOM	1290	CG	PRO	X	84	51.077	49.858	52.470	0.00	0.00
ATOM	1291	HG2	PRO	X	84	52.091	50.124	52.766	0.00	0.00
ATOM	1292	HG3	PRO	X	84	50.479	49.736	53.374	0.00	0.00
ATOM	1293	CB	PRO	X	84	50.511	50.892	51.498	0.00	0.00
ATOM	1294	HB2	PRO	X	84	50.766	51.919	51.760	0.00	0.00
ATOM	1295	HB3	PRO	X	84	49.426	50.799	51.546	0.00	0.00
ATOM	1296	CA	PRO	X	84	51.091	50.356	50.194	0.00	0.00
ATOM	1297	HA	PRO	X	84	50.355	50.614	49.433	0.00	0.00
ATOM	1298	C	PRO	X	84	52.343	51.085	49.677	0.00	0.00
ATOM	1299	O	PRO	X	84	53.449	50.480	49.679	0.00	0.00

ATOM	1300	N	ASN	X	85	52.136	52.349	49.256	0.00	0.00
ATOM	1301	H	ASN	X	85	51.179	52.659	49.169	0.00	0.00
ATOM	1302	CA	ASN	X	85	53.295	53.205	48.813	0.00	0.00
ATOM	1303	HA	ASN	X	85	54.212	52.756	49.192	0.00	0.00
ATOM	1304	CB	ASN	X	85	53.319	53.286	47.260	0.00	0.00
ATOM	1305	HB2	ASN	X	85	54.266	53.628	46.842	0.00	0.00
ATOM	1306	HB3	ASN	X	85	53.113	52.254	46.977	0.00	0.00
ATOM	1307	CG	ASN	X	85	52.238	54.190	46.586	0.00	0.00
ATOM	1308	OD1	ASN	X	85	51.236	54.608	47.188	0.00	0.00
ATOM	1309	ND2	ASN	X	85	52.293	54.456	45.264	0.00	0.00
ATOM	1310	HD21	ASN	X	85	51.539	54.906	44.765	0.00	0.00
ATOM	1311	HD22	ASN	X	85	53.097	54.256	44.687	0.00	0.00
ATOM	1312	C	ASN	X	85	53.341	54.579	49.559	0.00	0.00
ATOM	1313	O	ASN	X	85	54.300	54.898	50.266	0.00	0.00
ATOM	1314	N	ARG	X	86	52.248	55.388	49.470	0.00	0.00
ATOM	1315	H	ARG	X	86	51.535	55.056	48.836	0.00	0.00
ATOM	1316	CA	ARG	X	86	51.899	56.569	50.254	0.00	0.00
ATOM	1317	HA	ARG	X	86	52.619	57.379	50.142	0.00	0.00
ATOM	1318	CB	ARG	X	86	50.667	57.215	49.624	0.00	0.00
ATOM	1319	HB2	ARG	X	86	49.869	56.475	49.564	0.00	0.00
ATOM	1320	HB3	ARG	X	86	50.249	57.916	50.346	0.00	0.00
ATOM	1321	CG	ARG	X	86	50.792	57.931	48.238	0.00	0.00
ATOM	1322	HG2	ARG	X	86	51.307	57.241	47.571	0.00	0.00
ATOM	1323	HG3	ARG	X	86	49.776	58.041	47.860	0.00	0.00
ATOM	1324	CD	ARG	X	86	51.651	59.215	48.260	0.00	0.00
ATOM	1325	HD2	ARG	X	86	52.567	58.919	48.771	0.00	0.00
ATOM	1326	HD3	ARG	X	86	51.906	59.497	47.238	0.00	0.00
ATOM	1327	NE	ARG	X	86	50.985	60.321	48.940	0.00	0.00
ATOM	1328	HE	ARG	X	86	50.118	60.136	49.425	0.00	0.00
ATOM	1329	CZ	ARG	X	86	51.468	61.534	49.197	0.00	0.00
ATOM	1330	NH1	ARG	X	86	52.645	61.909	48.744	0.00	0.00
ATOM	1331	HH11	ARG	X	86	53.121	61.393	48.018	0.00	0.00
ATOM	1332	HH12	ARG	X	86	53.013	62.784	49.092	0.00	0.00
ATOM	1333	NH2	ARG	X	86	50.796	62.301	50.001	0.00	0.00
ATOM	1334	HH21	ARG	X	86	49.996	61.922	50.486	0.00	0.00
ATOM	1335	HH22	ARG	X	86	51.236	63.199	50.144	0.00	0.00
ATOM	1336	C	ARG	X	86	51.705	56.242	51.706	0.00	0.00
ATOM	1337	O	ARG	X	86	51.680	55.076	52.098	0.00	0.00
ATOM	1338	N	GLU	X	87	51.663	57.302	52.543	0.00	0.00
ATOM	1339	H	GLU	X	87	51.823	58.230	52.179	0.00	0.00
ATOM	1340	CA	GLU	X	87	51.798	57.214	53.949	0.00	0.00
ATOM	1341	HA	GLU	X	87	52.539	56.434	54.128	0.00	0.00
ATOM	1342	CB	GLU	X	87	52.401	58.495	54.572	0.00	0.00
ATOM	1343	HB2	GLU	X	87	53.077	58.259	55.393	0.00	0.00
ATOM	1344	HB3	GLU	X	87	53.010	59.006	53.826	0.00	0.00
ATOM	1345	CG	GLU	X	87	51.358	59.621	54.887	0.00	0.00
ATOM	1346	HG2	GLU	X	87	50.812	59.854	53.972	0.00	0.00
ATOM	1347	HG3	GLU	X	87	50.699	59.385	55.723	0.00	0.00
ATOM	1348	CD	GLU	X	87	52.021	60.890	55.237	0.00	0.00
ATOM	1349	OE1	GLU	X	87	52.393	61.608	54.282	0.00	0.00
ATOM	1350	OE2	GLU	X	87	52.140	61.165	56.487	0.00	0.00
ATOM	1351	C	GLU	X	87	50.454	56.736	54.666	0.00	0.00
ATOM	1352	O	GLU	X	87	49.320	57.122	54.360	0.00	0.00
ATOM	1353	N	LEU	X	88	50.589	55.821	55.600	0.00	0.00
ATOM	1354	H	LEU	X	88	51.537	55.523	55.781	0.00	0.00
ATOM	1355	CA	LEU	X	88	49.463	55.241	56.350	0.00	0.00
ATOM	1356	HA	LEU	X	88	48.737	54.991	55.576	0.00	0.00
ATOM	1357	CB	LEU	X	88	49.952	53.889	56.936	0.00	0.00
ATOM	1358	HB2	LEU	X	88	50.503	54.171	57.833	0.00	0.00
ATOM	1359	HB3	LEU	X	88	49.109	53.371	57.392	0.00	0.00
ATOM	1360	CG	LEU	X	88	50.639	52.856	56.035	0.00	0.00
ATOM	1361	HG	LEU	X	88	51.616	53.291	55.827	0.00	0.00
ATOM	1362	CD1	LEU	X	88	50.921	51.512	56.854	0.00	0.00
ATOM	1363	HD11	LEU	X	88	50.036	50.982	57.205	0.00	0.00
ATOM	1364	HD12	LEU	X	88	51.372	50.790	56.174	0.00	0.00
ATOM	1365	HD13	LEU	X	88	51.591	51.683	57.697	0.00	0.00
ATOM	1366	CD2	LEU	X	88	49.875	52.604	54.716	0.00	0.00
ATOM	1367	HD21	LEU	X	88	49.991	53.407	53.989	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.333	51.773	54.178	0.00	0.00
ATOM	1369	HD23	LEU	X	88	48.820	52.445	54.937	0.00	0.00

ATOM	1370	C	LEU	X	88	48.869	56.147	57.434	0.00	0.00
ATOM	1371	O	LEU	X	88	49.654	56.997	57.933	0.00	0.00
ATOM	1372	N	SER	X	89	47.629	55.971	57.850	0.00	0.00
ATOM	1373	H	SER	X	89	47.103	55.316	57.289	0.00	0.00
ATOM	1374	CA	SER	X	89	46.822	56.784	58.770	0.00	0.00
ATOM	1375	HA	SER	X	89	47.249	56.937	59.761	0.00	0.00
ATOM	1376	CB	SER	X	89	46.570	58.191	58.078	0.00	0.00
ATOM	1377	HB2	SER	X	89	46.127	58.058	57.091	0.00	0.00
ATOM	1378	HB3	SER	X	89	45.838	58.754	58.658	0.00	0.00
ATOM	1379	OG	SER	X	89	47.844	58.903	57.968	0.00	0.00
ATOM	1380	HG	SER	X	89	48.444	58.216	57.671	0.00	0.00
ATOM	1381	C	SER	X	89	45.504	56.067	59.028	0.00	0.00
ATOM	1382	O	SER	X	89	45.213	55.030	58.536	0.00	0.00
ATOM	1383	N	GLU	X	90	44.647	56.630	59.830	0.00	0.00
ATOM	1384	H	GLU	X	90	45.008	57.112	60.641	0.00	0.00
ATOM	1385	CA	GLU	X	90	43.214	56.440	59.877	0.00	0.00
ATOM	1386	HA	GLU	X	90	42.949	55.547	59.310	0.00	0.00
ATOM	1387	CB	GLU	X	90	42.722	56.293	61.325	0.00	0.00
ATOM	1388	HB2	GLU	X	90	43.180	57.083	61.920	0.00	0.00
ATOM	1389	HB3	GLU	X	90	41.635	56.322	61.248	0.00	0.00
ATOM	1390	CG	GLU	X	90	43.173	54.938	61.899	0.00	0.00
ATOM	1391	HG2	GLU	X	90	42.844	54.141	61.232	0.00	0.00
ATOM	1392	HG3	GLU	X	90	44.262	54.900	61.870	0.00	0.00
ATOM	1393	CD	GLU	X	90	42.666	54.771	63.324	0.00	0.00
ATOM	1394	OE1	GLU	X	90	41.498	54.411	63.600	0.00	0.00
ATOM	1395	OE2	GLU	X	90	43.376	55.141	64.243	0.00	0.00
ATOM	1396	C	GLU	X	90	42.504	57.560	59.109	0.00	0.00
ATOM	1397	O	GLU	X	90	41.249	57.609	59.079	0.00	0.00
ATOM	1398	N	ASP	X	91	43.287	58.533	58.551	0.00	0.00
ATOM	1399	H	ASP	X	91	44.296	58.509	58.497	0.00	0.00
ATOM	1400	CA	ASP	X	91	42.664	59.431	57.600	0.00	0.00
ATOM	1401	HA	ASP	X	91	41.604	59.648	57.731	0.00	0.00
ATOM	1402	CB	ASP	X	91	43.333	60.827	57.704	0.00	0.00
ATOM	1403	HB2	ASP	X	91	43.270	61.281	58.694	0.00	0.00
ATOM	1404	HB3	ASP	X	91	44.396	60.814	57.467	0.00	0.00
ATOM	1405	CG	ASP	X	91	42.705	61.856	56.780	0.00	0.00
ATOM	1406	OD1	ASP	X	91	41.538	61.560	56.460	0.00	0.00
ATOM	1407	OD2	ASP	X	91	43.339	62.871	56.426	0.00	0.00
ATOM	1408	C	ASP	X	91	42.867	58.852	56.221	0.00	0.00
ATOM	1409	O	ASP	X	91	44.034	58.756	55.761	0.00	0.00
ATOM	1410	N	CYX	X	92	41.744	58.365	55.629	0.00	0.00
ATOM	1411	H	CYX	X	92	40.886	58.396	56.161	0.00	0.00
ATOM	1412	CA	CYX	X	92	41.833	57.331	54.634	0.00	0.00
ATOM	1413	HA	CYX	X	92	42.437	57.735	53.822	0.00	0.00
ATOM	1414	CB	CYX	X	92	42.547	56.113	55.220	0.00	0.00
ATOM	1415	HB2	CYX	X	92	42.788	55.463	54.379	0.00	0.00
ATOM	1416	HB3	CYX	X	92	43.421	56.395	55.808	0.00	0.00
ATOM	1417	SG	CYX	X	92	41.723	54.990	56.395	0.00	0.00
ATOM	1418	C	CYX	X	92	40.532	57.028	53.877	0.00	0.00
ATOM	1419	O	CYX	X	92	40.561	56.154	53.050	0.00	0.00
ATOM	1420	N	LEU	X	93	39.407	57.684	54.151	0.00	0.00
ATOM	1421	H	LEU	X	93	39.479	58.360	54.898	0.00	0.00
ATOM	1422	CA	LEU	X	93	38.217	57.755	53.270	0.00	0.00
ATOM	1423	HA	LEU	X	93	38.056	56.806	52.759	0.00	0.00
ATOM	1424	CB	LEU	X	93	36.983	57.926	54.165	0.00	0.00
ATOM	1425	HB2	LEU	X	93	37.067	58.905	54.636	0.00	0.00
ATOM	1426	HB3	LEU	X	93	36.031	57.959	53.636	0.00	0.00
ATOM	1427	CG	LEU	X	93	36.762	56.769	55.195	0.00	0.00
ATOM	1428	HG	LEU	X	93	37.585	56.855	55.905	0.00	0.00
ATOM	1429	CD1	LEU	X	93	35.448	56.854	55.993	0.00	0.00
ATOM	1430	HD11	LEU	X	93	34.555	56.552	55.446	0.00	0.00
ATOM	1431	HD12	LEU	X	93	35.573	56.065	56.735	0.00	0.00
ATOM	1432	HD13	LEU	X	93	35.144	57.774	56.492	0.00	0.00
ATOM	1433	CD2	LEU	X	93	36.942	55.398	54.528	0.00	0.00
ATOM	1434	HD21	LEU	X	93	37.994	55.301	54.258	0.00	0.00
ATOM	1435	HD22	LEU	X	93	36.691	54.592	55.218	0.00	0.00
ATOM	1436	HD23	LEU	X	93	36.328	55.179	53.655	0.00	0.00
ATOM	1437	C	LEU	X	93	38.419	58.886	52.264	0.00	0.00
ATOM	1438	O	LEU	X	93	37.858	59.958	52.417	0.00	0.00
ATOM	1439	N	TYR	X	94	39.203	58.630	51.175	0.00	0.00

ATOM	1440	H	TYR	X	94	39.743	57.777	51.207	0.00	0.00
ATOM	1441	CA	TYR	X	94	39.175	59.538	50.005	0.00	0.00
ATOM	1442	HA	TYR	X	94	38.545	60.424	50.095	0.00	0.00
ATOM	1443	CB	TYR	X	94	40.650	59.985	49.746	0.00	0.00
ATOM	1444	HB2	TYR	X	94	41.149	59.016	49.788	0.00	0.00
ATOM	1445	HB3	TYR	X	94	40.765	60.497	48.791	0.00	0.00
ATOM	1446	CG	TYR	X	94	41.208	60.893	50.834	0.00	0.00
ATOM	1447	CD1	TYR	X	94	40.895	62.241	50.724	0.00	0.00
ATOM	1448	HD1	TYR	X	94	40.331	62.482	49.835	0.00	0.00
ATOM	1449	CE1	TYR	X	94	41.229	63.186	51.700	0.00	0.00
ATOM	1450	HE1	TYR	X	94	40.941	64.211	51.520	0.00	0.00
ATOM	1451	CZ	TYR	X	94	42.042	62.797	52.739	0.00	0.00
ATOM	1452	OH	TYR	X	94	42.375	63.672	53.706	0.00	0.00
ATOM	1453	HH	TYR	X	94	42.763	63.372	54.531	0.00	0.00
ATOM	1454	CE2	TYR	X	94	42.360	61.426	52.905	0.00	0.00
ATOM	1455	HE2	TYR	X	94	42.915	61.072	53.761	0.00	0.00
ATOM	1456	CD2	TYR	X	94	41.976	60.481	51.926	0.00	0.00
ATOM	1457	HD2	TYR	X	94	42.078	59.430	52.154	0.00	0.00
ATOM	1458	C	TYR	X	94	38.754	58.873	48.634	0.00	0.00
ATOM	1459	O	TYR	X	94	38.542	57.661	48.635	0.00	0.00
ATOM	1460	N	LEU	X	95	38.679	59.517	47.476	0.00	0.00
ATOM	1461	H	LEU	X	95	38.998	60.473	47.410	0.00	0.00
ATOM	1462	CA	LEU	X	95	38.392	58.883	46.112	0.00	0.00
ATOM	1463	HA	LEU	X	95	38.851	57.897	46.180	0.00	0.00
ATOM	1464	CB	LEU	X	95	36.876	58.640	45.847	0.00	0.00
ATOM	1465	HB2	LEU	X	95	36.842	58.296	44.813	0.00	0.00
ATOM	1466	HB3	LEU	X	95	36.511	57.807	46.449	0.00	0.00
ATOM	1467	CG	LEU	X	95	35.981	59.798	46.083	0.00	0.00
ATOM	1468	HG	LEU	X	95	36.279	60.366	46.965	0.00	0.00
ATOM	1469	CD1	LEU	X	95	36.052	60.762	44.902	0.00	0.00
ATOM	1470	HD11	LEU	X	95	35.565	60.235	44.082	0.00	0.00
ATOM	1471	HD12	LEU	X	95	35.464	61.612	45.250	0.00	0.00
ATOM	1472	HD13	LEU	X	95	37.052	60.957	44.515	0.00	0.00
ATOM	1473	CD2	LEU	X	95	34.470	59.454	46.227	0.00	0.00
ATOM	1474	HD21	LEU	X	95	34.127	58.855	47.071	0.00	0.00
ATOM	1475	HD22	LEU	X	95	33.969	60.417	46.319	0.00	0.00
ATOM	1476	HD23	LEU	X	95	34.127	59.034	45.282	0.00	0.00
ATOM	1477	C	LEU	X	95	39.108	59.763	45.045	0.00	0.00
ATOM	1478	O	LEU	X	95	39.609	60.792	45.374	0.00	0.00
ATOM	1479	N	ASN	X	96	39.068	59.385	43.790	0.00	0.00
ATOM	1480	H	ASN	X	96	38.408	58.641	43.612	0.00	0.00
ATOM	1481	CA	ASN	X	96	39.850	59.835	42.648	0.00	0.00
ATOM	1482	HA	ASN	X	96	40.281	60.797	42.926	0.00	0.00
ATOM	1483	CB	ASN	X	96	41.070	58.883	42.390	0.00	0.00
ATOM	1484	HB2	ASN	X	96	40.754	57.928	41.972	0.00	0.00
ATOM	1485	HB3	ASN	X	96	41.803	59.332	41.720	0.00	0.00
ATOM	1486	CG	ASN	X	96	41.781	58.600	43.709	0.00	0.00
ATOM	1487	OD1	ASN	X	96	42.536	59.449	44.246	0.00	0.00
ATOM	1488	ND2	ASN	X	96	41.619	57.437	44.334	0.00	0.00
ATOM	1489	HD21	ASN	X	96	42.125	57.225	45.182	0.00	0.00
ATOM	1490	HD22	ASN	X	96	41.128	56.654	43.927	0.00	0.00
ATOM	1491	C	ASN	X	96	39.051	59.832	41.359	0.00	0.00
ATOM	1492	O	ASN	X	96	38.220	58.969	41.242	0.00	0.00
ATOM	1493	N	VAL	X	97	39.226	60.795	40.480	0.00	0.00
ATOM	1494	H	VAL	X	97	39.785	61.602	40.720	0.00	0.00
ATOM	1495	CA	VAL	X	97	38.576	60.785	39.192	0.00	0.00
ATOM	1496	HA	VAL	X	97	38.128	59.816	38.973	0.00	0.00
ATOM	1497	CB	VAL	X	97	37.358	61.728	39.185	0.00	0.00
ATOM	1498	HB	VAL	X	97	37.580	62.760	39.458	0.00	0.00
ATOM	1499	CG1	VAL	X	97	36.671	61.597	37.844	0.00	0.00
ATOM	1500	HG11	VAL	X	97	37.357	62.024	37.113	0.00	0.00
ATOM	1501	HG12	VAL	X	97	36.318	60.579	37.678	0.00	0.00
ATOM	1502	HG13	VAL	X	97	35.814	62.260	37.719	0.00	0.00
ATOM	1503	CG2	VAL	X	97	36.357	61.400	40.326	0.00	0.00
ATOM	1504	HG21	VAL	X	97	36.066	60.350	40.299	0.00	0.00
ATOM	1505	HG22	VAL	X	97	36.933	61.606	41.228	0.00	0.00
ATOM	1506	HG23	VAL	X	97	35.493	62.063	40.270	0.00	0.00
ATOM	1507	C	VAL	X	97	39.633	61.035	38.036	0.00	0.00
ATOM	1508	O	VAL	X	97	40.633	61.751	38.249	0.00	0.00
ATOM	1509	N	TRP	X	98	39.536	60.368	36.915	0.00	0.00

ATOM	1510	H	TRP	X	98	38.852	59.627	36.867	0.00	0.00
ATOM	1511	CA	TRP	X	98	40.343	60.629	35.714	0.00	0.00
ATOM	1512	HA	TRP	X	98	40.903	61.559	35.808	0.00	0.00
ATOM	1513	CB	TRP	X	98	41.209	59.422	35.378	0.00	0.00
ATOM	1514	HB2	TRP	X	98	40.534	58.567	35.392	0.00	0.00
ATOM	1515	HB3	TRP	X	98	41.673	59.507	34.395	0.00	0.00
ATOM	1516	CG	TRP	X	98	42.327	59.231	36.429	0.00	0.00
ATOM	1517	CD1	TRP	X	98	43.640	59.494	36.191	0.00	0.00
ATOM	1518	HD1	TRP	X	98	43.961	60.040	35.316	0.00	0.00
ATOM	1519	NE1	TRP	X	98	44.507	59.081	37.146	0.00	0.00
ATOM	1520	HE1	TRP	X	98	45.506	59.231	37.118	0.00	0.00
ATOM	1521	CE2	TRP	X	98	43.770	58.398	38.077	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	44.100	57.686	39.231	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	45.100	57.822	39.615	0.00	0.00
ATOM	1524	CH2	TRP	X	98	43.048	57.132	40.034	0.00	0.00
ATOM	1525	HH2	TRP	X	98	43.360	56.679	40.964	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	41.727	57.146	39.524	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	40.936	56.750	40.142	0.00	0.00
ATOM	1528	CE3	TRP	X	98	41.386	57.778	38.354	0.00	0.00
ATOM	1529	HE3	TRP	X	98	40.333	57.873	38.133	0.00	0.00
ATOM	1530	CD2	TRP	X	98	42.406	58.439	37.674	0.00	0.00
ATOM	1531	C	TRP	X	98	39.374	60.925	34.501	0.00	0.00
ATOM	1532	O	TRP	X	98	38.401	60.192	34.299	0.00	0.00
ATOM	1533	N	THR	X	99	39.591	61.889	33.644	0.00	0.00
ATOM	1534	H	THR	X	99	40.505	62.306	33.745	0.00	0.00
ATOM	1535	CA	THR	X	99	38.699	62.274	32.545	0.00	0.00
ATOM	1536	HA	THR	X	99	38.206	61.402	32.117	0.00	0.00
ATOM	1537	CB	THR	X	99	37.611	63.096	33.081	0.00	0.00
ATOM	1538	HB	THR	X	99	37.094	62.553	33.873	0.00	0.00
ATOM	1539	CG2	THR	X	99	38.058	64.514	33.478	0.00	0.00
ATOM	1540	HG21	THR	X	99	37.223	64.969	34.009	0.00	0.00
ATOM	1541	HG22	THR	X	99	38.967	64.657	34.062	0.00	0.00
ATOM	1542	HG23	THR	X	99	38.128	65.143	32.590	0.00	0.00
ATOM	1543	OG1	THR	X	99	36.647	63.318	32.126	0.00	0.00
ATOM	1544	HG1	THR	X	99	35.813	63.680	32.434	0.00	0.00
ATOM	1545	C	THR	X	99	39.495	62.974	31.427	0.00	0.00
ATOM	1546	O	THR	X	99	40.594	63.379	31.827	0.00	0.00
ATOM	1547	N	PRO	X	100	38.973	63.194	30.187	0.00	0.00
ATOM	1548	CD	PRO	X	100	37.829	62.513	29.627	0.00	0.00
ATOM	1549	HD2	PRO	X	100	37.036	63.246	29.775	0.00	0.00
ATOM	1550	HD3	PRO	X	100	37.753	61.562	30.153	0.00	0.00
ATOM	1551	CG	PRO	X	100	38.242	62.341	28.132	0.00	0.00
ATOM	1552	HG2	PRO	X	100	37.384	62.160	27.485	0.00	0.00
ATOM	1553	HG3	PRO	X	100	39.018	61.585	28.010	0.00	0.00
ATOM	1554	CB	PRO	X	100	38.722	63.778	27.897	0.00	0.00
ATOM	1555	HB2	PRO	X	100	37.940	64.536	27.863	0.00	0.00
ATOM	1556	HB3	PRO	X	100	39.337	63.859	27.001	0.00	0.00
ATOM	1557	CA	PRO	X	100	39.597	63.934	29.154	0.00	0.00
ATOM	1558	HA	PRO	X	100	40.502	63.364	28.940	0.00	0.00
ATOM	1559	C	PRO	X	100	39.953	65.391	29.594	0.00	0.00
ATOM	1560	O	PRO	X	100	39.321	65.978	30.412	0.00	0.00
ATOM	1561	N	TYR	X	101	40.973	65.942	28.880	0.00	0.00
ATOM	1562	H	TYR	X	101	41.399	65.298	28.230	0.00	0.00
ATOM	1563	CA	TYR	X	101	41.301	67.347	28.895	0.00	0.00
ATOM	1564	HA	TYR	X	101	40.672	67.824	29.647	0.00	0.00
ATOM	1565	CB	TYR	X	101	42.752	67.667	29.202	0.00	0.00
ATOM	1566	HB2	TYR	X	101	42.961	67.177	30.152	0.00	0.00
ATOM	1567	HB3	TYR	X	101	43.448	67.245	28.477	0.00	0.00
ATOM	1568	CG	TYR	X	101	42.928	69.121	29.394	0.00	0.00
ATOM	1569	CD1	TYR	X	101	43.191	69.891	28.234	0.00	0.00
ATOM	1570	HD1	TYR	X	101	43.385	69.414	27.285	0.00	0.00
ATOM	1571	CE1	TYR	X	101	43.301	71.251	28.256	0.00	0.00
ATOM	1572	HE1	TYR	X	101	43.487	71.860	27.383	0.00	0.00
ATOM	1573	CZ	TYR	X	101	43.085	71.922	29.506	0.00	0.00
ATOM	1574	OH	TYR	X	101	43.100	73.263	29.531	0.00	0.00
ATOM	1575	HH	TYR	X	101	43.298	73.695	28.697	0.00	0.00
ATOM	1576	CE2	TYR	X	101	42.901	71.179	30.727	0.00	0.00
ATOM	1577	HE2	TYR	X	101	42.783	71.684	31.674	0.00	0.00
ATOM	1578	CD2	TYR	X	101	42.811	69.743	30.664	0.00	0.00
ATOM	1579	HD2	TYR	X	101	42.728	69.154	31.566	0.00	0.00

ATOM	1580	C	TYR	X	101	40.825	68.019	27.576	0.00	0.00
ATOM	1581	O	TYR	X	101	41.242	67.469	26.537	0.00	0.00
ATOM	1582	N	PRO	X	102	39.981	69.073	27.455	0.00	0.00
ATOM	1583	CD	PRO	X	102	39.770	69.750	26.213	0.00	0.00
ATOM	1584	HD2	PRO	X	102	39.515	69.041	25.425	0.00	0.00
ATOM	1585	HD3	PRO	X	102	40.662	70.326	25.965	0.00	0.00
ATOM	1586	CG	PRO	X	102	38.575	70.778	26.437	0.00	0.00
ATOM	1587	HG2	PRO	X	102	37.604	70.288	26.374	0.00	0.00
ATOM	1588	HG3	PRO	X	102	38.663	71.701	25.862	0.00	0.00
ATOM	1589	CB	PRO	X	102	38.777	71.026	27.968	0.00	0.00
ATOM	1590	HB2	PRO	X	102	37.861	71.206	28.532	0.00	0.00
ATOM	1591	HB3	PRO	X	102	39.315	71.962	28.119	0.00	0.00
ATOM	1592	CA	PRO	X	102	39.459	69.789	28.590	0.00	0.00
ATOM	1593	HA	PRO	X	102	40.281	70.128	29.219	0.00	0.00
ATOM	1594	C	PRO	X	102	38.522	69.000	29.394	0.00	0.00
ATOM	1595	O	PRO	X	102	37.695	68.247	28.886	0.00	0.00
ATOM	1596	N	ARG	X	103	38.523	69.245	30.721	0.00	0.00
ATOM	1597	H	ARG	X	103	39.241	69.866	31.065	0.00	0.00
ATOM	1598	CA	ARG	X	103	37.656	68.665	31.771	0.00	0.00
ATOM	1599	HA	ARG	X	103	37.919	67.608	31.818	0.00	0.00
ATOM	1600	CB	ARG	X	103	37.927	69.353	33.156	0.00	0.00
ATOM	1601	HB2	ARG	X	103	38.960	69.702	33.157	0.00	0.00
ATOM	1602	HB3	ARG	X	103	37.475	70.342	33.086	0.00	0.00
ATOM	1603	CG	ARG	X	103	37.492	68.504	34.391	0.00	0.00
ATOM	1604	HG2	ARG	X	103	36.640	67.902	34.074	0.00	0.00
ATOM	1605	HG3	ARG	X	103	38.375	67.874	34.491	0.00	0.00
ATOM	1606	CD	ARG	X	103	37.090	69.245	35.658	0.00	0.00
ATOM	1607	HD2	ARG	X	103	37.244	68.622	36.539	0.00	0.00
ATOM	1608	HD3	ARG	X	103	37.718	70.134	35.719	0.00	0.00
ATOM	1609	NE	ARG	X	103	35.732	69.650	35.500	0.00	0.00
ATOM	1610	HE	ARG	X	103	35.043	68.955	35.750	0.00	0.00
ATOM	1611	CZ	ARG	X	103	35.191	70.760	34.991	0.00	0.00
ATOM	1612	NH1	ARG	X	103	35.898	71.775	34.426	0.00	0.00
ATOM	1613	HH11	ARG	X	103	36.896	71.788	34.581	0.00	0.00
ATOM	1614	HH12	ARG	X	103	35.427	72.494	33.896	0.00	0.00
ATOM	1615	NH2	ARG	X	103	33.927	70.790	34.776	0.00	0.00
ATOM	1616	HH21	ARG	X	103	33.374	69.995	35.062	0.00	0.00
ATOM	1617	HH22	ARG	X	103	33.473	71.478	34.192	0.00	0.00
ATOM	1618	C	ARG	X	103	36.175	68.821	31.322	0.00	0.00
ATOM	1619	O	ARG	X	103	35.616	69.898	31.417	0.00	0.00
ATOM	1620	N	PRO	X	104	35.452	67.731	30.896	0.00	0.00
ATOM	1621	CD	PRO	X	104	35.970	66.427	30.669	0.00	0.00
ATOM	1622	HD2	PRO	X	104	36.188	65.897	31.596	0.00	0.00
ATOM	1623	HD3	PRO	X	104	36.821	66.454	29.989	0.00	0.00
ATOM	1624	CG	PRO	X	104	34.987	65.590	29.853	0.00	0.00
ATOM	1625	HG2	PRO	X	104	34.548	64.913	30.586	0.00	0.00
ATOM	1626	HG3	PRO	X	104	35.419	65.134	28.963	0.00	0.00
ATOM	1627	CB	PRO	X	104	33.902	66.603	29.363	0.00	0.00
ATOM	1628	HB2	PRO	X	104	32.884	66.214	29.397	0.00	0.00
ATOM	1629	HB3	PRO	X	104	34.148	66.858	28.332	0.00	0.00
ATOM	1630	CA	PRO	X	104	34.113	67.738	30.418	0.00	0.00
ATOM	1631	HA	PRO	X	104	33.993	68.670	29.866	0.00	0.00
ATOM	1632	C	PRO	X	104	33.141	67.685	31.575	0.00	0.00
ATOM	1633	O	PRO	X	104	33.425	67.116	32.613	0.00	0.00
ATOM	1634	N	THR	X	105	31.965	68.356	31.360	0.00	0.00
ATOM	1635	H	THR	X	105	31.946	68.909	30.515	0.00	0.00
ATOM	1636	CA	THR	X	105	30.733	68.148	32.108	0.00	0.00
ATOM	1637	HA	THR	X	105	31.077	67.626	33.000	0.00	0.00
ATOM	1638	CB	THR	X	105	30.045	69.445	32.659	0.00	0.00
ATOM	1639	HB	THR	X	105	29.110	69.147	33.133	0.00	0.00
ATOM	1640	CG2	THR	X	105	30.997	70.076	33.655	0.00	0.00
ATOM	1641	HG21	THR	X	105	31.926	70.419	33.199	0.00	0.00
ATOM	1642	HG22	THR	X	105	30.441	70.906	34.091	0.00	0.00
ATOM	1643	HG23	THR	X	105	31.130	69.304	34.413	0.00	0.00
ATOM	1644	OG1	THR	X	105	29.924	70.253	31.548	0.00	0.00
ATOM	1645	HG1	THR	X	105	29.365	69.815	30.902	0.00	0.00
ATOM	1646	C	THR	X	105	29.650	67.279	31.389	0.00	0.00
ATOM	1647	O	THR	X	105	28.774	66.778	32.088	0.00	0.00
ATOM	1648	N	SER	X	106	29.718	67.113	30.041	0.00	0.00
ATOM	1649	H	SER	X	106	30.440	67.600	29.531	0.00	0.00

ATOM	1650	CA	SER	X	106	28.770	66.336	29.139	0.00	0.00
ATOM	1651	HA	SER	X	106	27.779	66.698	29.415	0.00	0.00
ATOM	1652	CB	SER	X	106	29.013	66.640	27.681	0.00	0.00
ATOM	1653	HB2	SER	X	106	30.006	66.280	27.412	0.00	0.00
ATOM	1654	HB3	SER	X	106	28.371	66.011	27.064	0.00	0.00
ATOM	1655	OG	SER	X	106	28.877	68.035	27.297	0.00	0.00
ATOM	1656	HG	SER	X	106	27.945	68.241	27.401	0.00	0.00
ATOM	1657	C	SER	X	106	28.867	64.789	29.456	0.00	0.00
ATOM	1658	O	SER	X	106	30.012	64.310	29.522	0.00	0.00
ATOM	1659	N	PRO	X	107	27.710	64.146	29.677	0.00	0.00
ATOM	1660	CD	PRO	X	107	26.403	64.617	29.423	0.00	0.00
ATOM	1661	HD2	PRO	X	107	26.244	64.978	28.407	0.00	0.00
ATOM	1662	HD3	PRO	X	107	26.288	65.404	30.169	0.00	0.00
ATOM	1663	CG	PRO	X	107	25.473	63.432	29.746	0.00	0.00
ATOM	1664	HG2	PRO	X	107	24.995	62.875	28.940	0.00	0.00
ATOM	1665	HG3	PRO	X	107	24.636	63.723	30.381	0.00	0.00
ATOM	1666	CB	PRO	X	107	26.278	62.364	30.496	0.00	0.00
ATOM	1667	HB2	PRO	X	107	25.935	61.385	30.162	0.00	0.00
ATOM	1668	HB3	PRO	X	107	26.090	62.350	31.569	0.00	0.00
ATOM	1669	CA	PRO	X	107	27.712	62.736	30.168	0.00	0.00
ATOM	1670	HA	PRO	X	107	28.191	62.790	31.146	0.00	0.00
ATOM	1671	C	PRO	X	107	28.399	61.729	29.269	0.00	0.00
ATOM	1672	O	PRO	X	107	28.205	61.713	28.023	0.00	0.00
ATOM	1673	N	THR	X	108	29.161	60.865	29.964	0.00	0.00
ATOM	1674	H	THR	X	108	29.152	61.050	30.957	0.00	0.00
ATOM	1675	CA	THR	X	108	30.045	59.821	29.378	0.00	0.00
ATOM	1676	HA	THR	X	108	29.697	59.466	28.408	0.00	0.00
ATOM	1677	CB	THR	X	108	31.457	60.350	29.232	0.00	0.00
ATOM	1678	HB	THR	X	108	31.954	60.483	30.192	0.00	0.00
ATOM	1679	CG2	THR	X	108	32.353	59.472	28.401	0.00	0.00
ATOM	1680	HG21	THR	X	108	33.202	60.085	28.098	0.00	0.00
ATOM	1681	HG22	THR	X	108	32.804	58.680	29.000	0.00	0.00
ATOM	1682	HG23	THR	X	108	31.764	59.022	27.602	0.00	0.00
ATOM	1683	OG1	THR	X	108	31.353	61.593	28.526	0.00	0.00
ATOM	1684	HG1	THR	X	108	30.847	62.052	29.200	0.00	0.00
ATOM	1685	C	THR	X	108	30.087	58.735	30.445	0.00	0.00
ATOM	1686	O	THR	X	108	30.324	59.065	31.580	0.00	0.00
ATOM	1687	N	PRO	X	109	29.821	57.442	30.132	0.00	0.00
ATOM	1688	CD	PRO	X	109	29.406	57.043	28.820	0.00	0.00
ATOM	1689	HD2	PRO	X	109	30.313	56.930	28.226	0.00	0.00
ATOM	1690	HD3	PRO	X	109	28.792	57.813	28.354	0.00	0.00
ATOM	1691	CG	PRO	X	109	28.710	55.637	29.004	0.00	0.00
ATOM	1692	HG2	PRO	X	109	28.853	55.094	28.069	0.00	0.00
ATOM	1693	HG3	PRO	X	109	27.690	55.684	29.386	0.00	0.00
ATOM	1694	CB	PRO	X	109	29.553	55.100	30.174	0.00	0.00
ATOM	1695	HB2	PRO	X	109	30.440	54.639	29.740	0.00	0.00
ATOM	1696	HB3	PRO	X	109	28.940	54.397	30.738	0.00	0.00
ATOM	1697	CA	PRO	X	109	29.758	56.338	31.039	0.00	0.00
ATOM	1698	HA	PRO	X	109	28.907	56.605	31.666	0.00	0.00
ATOM	1699	C	PRO	X	109	30.916	56.050	32.007	0.00	0.00
ATOM	1700	O	PRO	X	109	32.116	56.371	31.728	0.00	0.00
ATOM	1701	N	VAL	X	110	30.552	55.662	33.182	0.00	0.00
ATOM	1702	H	VAL	X	110	29.646	55.235	33.310	0.00	0.00
ATOM	1703	CA	VAL	X	110	31.434	55.692	34.419	0.00	0.00
ATOM	1704	HA	VAL	X	110	32.327	56.204	34.062	0.00	0.00
ATOM	1705	CB	VAL	X	110	30.749	56.450	35.575	0.00	0.00
ATOM	1706	HB	VAL	X	110	29.864	55.856	35.804	0.00	0.00
ATOM	1707	CG1	VAL	X	110	31.565	56.522	36.849	0.00	0.00
ATOM	1708	HG11	VAL	X	110	32.507	57.055	36.724	0.00	0.00
ATOM	1709	HG12	VAL	X	110	30.988	57.081	37.586	0.00	0.00
ATOM	1710	HG13	VAL	X	110	31.934	55.546	37.166	0.00	0.00
ATOM	1711	CG2	VAL	X	110	30.337	57.903	35.250	0.00	0.00
ATOM	1712	HG21	VAL	X	110	31.189	58.556	35.063	0.00	0.00
ATOM	1713	HG22	VAL	X	110	29.799	57.896	34.302	0.00	0.00
ATOM	1714	HG23	VAL	X	110	29.668	58.342	35.990	0.00	0.00
ATOM	1715	C	VAL	X	110	31.900	54.325	34.897	0.00	0.00
ATOM	1716	O	VAL	X	110	31.242	53.343	34.694	0.00	0.00
ATOM	1717	N	LEU	X	111	33.159	54.239	35.410	0.00	0.00
ATOM	1718	H	LEU	X	111	33.641	55.123	35.332	0.00	0.00
ATOM	1719	CA	LEU	X	111	33.851	52.998	35.650	0.00	0.00

ATOM	1720	HA	LEU	X	111	33.050	52.280	35.831	0.00	0.00
ATOM	1721	CB	LEU	X	111	34.756	52.697	34.453	0.00	0.00
ATOM	1722	HB2	LEU	X	111	34.957	53.581	33.848	0.00	0.00
ATOM	1723	HB3	LEU	X	111	35.743	52.438	34.835	0.00	0.00
ATOM	1724	CG	LEU	X	111	34.219	51.718	33.476	0.00	0.00
ATOM	1725	HG	LEU	X	111	33.237	52.046	33.135	0.00	0.00
ATOM	1726	CD1	LEU	X	111	35.106	51.420	32.282	0.00	0.00
ATOM	1727	HD11	LEU	X	111	35.369	52.381	31.841	0.00	0.00
ATOM	1728	HD12	LEU	X	111	36.030	50.952	32.622	0.00	0.00
ATOM	1729	HD13	LEU	X	111	34.633	50.735	31.578	0.00	0.00
ATOM	1730	CD2	LEU	X	111	34.008	50.303	34.103	0.00	0.00
ATOM	1731	HD21	LEU	X	111	33.567	49.664	33.338	0.00	0.00
ATOM	1732	HD22	LEU	X	111	34.957	49.900	34.456	0.00	0.00
ATOM	1733	HD23	LEU	X	111	33.410	50.282	35.014	0.00	0.00
ATOM	1734	C	LEU	X	111	34.567	53.077	37.017	0.00	0.00
ATOM	1735	O	LEU	X	111	35.519	53.857	37.223	0.00	0.00
ATOM	1736	N	VAL	X	112	34.095	52.366	38.022	0.00	0.00
ATOM	1737	H	VAL	X	112	33.306	51.744	37.911	0.00	0.00
ATOM	1738	CA	VAL	X	112	34.559	52.565	39.378	0.00	0.00
ATOM	1739	HA	VAL	X	112	35.245	53.409	39.431	0.00	0.00
ATOM	1740	CB	VAL	X	112	33.347	52.837	40.386	0.00	0.00
ATOM	1741	HB	VAL	X	112	32.841	51.896	40.603	0.00	0.00
ATOM	1742	CG1	VAL	X	112	33.783	53.445	41.697	0.00	0.00
ATOM	1743	HG11	VAL	X	112	34.624	52.999	42.227	0.00	0.00
ATOM	1744	HG12	VAL	X	112	34.028	54.488	41.495	0.00	0.00
ATOM	1745	HG13	VAL	X	112	32.930	53.416	42.375	0.00	0.00
ATOM	1746	CG2	VAL	X	112	32.331	53.869	39.770	0.00	0.00
ATOM	1747	HG21	VAL	X	112	31.793	53.359	38.972	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.625	54.087	40.571	0.00	0.00
ATOM	1749	HG23	VAL	X	112	32.814	54.739	39.324	0.00	0.00
ATOM	1750	C	VAL	X	112	35.376	51.382	39.946	0.00	0.00
ATOM	1751	O	VAL	X	112	34.806	50.306	40.320	0.00	0.00
ATOM	1752	N	TRP	X	113	36.657	51.565	39.996	0.00	0.00
ATOM	1753	H	TRP	X	113	37.046	52.449	39.704	0.00	0.00
ATOM	1754	CA	TRP	X	113	37.601	50.494	40.400	0.00	0.00
ATOM	1755	HA	TRP	X	113	37.337	49.612	39.816	0.00	0.00
ATOM	1756	CB	TRP	X	113	39.010	50.818	39.884	0.00	0.00
ATOM	1757	HB2	TRP	X	113	38.916	51.077	38.829	0.00	0.00
ATOM	1758	HB3	TRP	X	113	39.408	51.529	40.607	0.00	0.00
ATOM	1759	CG	TRP	X	113	39.845	49.522	39.931	0.00	0.00
ATOM	1760	CD1	TRP	X	113	40.460	49.100	41.091	0.00	0.00
ATOM	1761	HD1	TRP	X	113	40.444	49.678	42.003	0.00	0.00
ATOM	1762	NE1	TRP	X	113	40.956	47.870	40.848	0.00	0.00
ATOM	1763	HE1	TRP	X	113	41.366	47.287	41.563	0.00	0.00
ATOM	1764	CE2	TRP	X	113	40.870	47.503	39.473	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	41.315	46.318	38.849	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	41.997	45.588	39.259	0.00	0.00
ATOM	1767	CH2	TRP	X	113	40.808	46.065	37.542	0.00	0.00
ATOM	1768	HH2	TRP	X	113	41.112	45.172	37.017	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	40.118	47.092	36.862	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	39.688	46.902	35.889	0.00	0.00
ATOM	1771	CE3	TRP	X	113	39.747	48.306	37.521	0.00	0.00
ATOM	1772	HE3	TRP	X	113	39.191	49.089	37.025	0.00	0.00
ATOM	1773	CD2	TRP	X	113	40.110	48.507	38.888	0.00	0.00
ATOM	1774	C	TRP	X	113	37.641	50.228	41.939	0.00	0.00
ATOM	1775	O	TRP	X	113	37.648	51.172	42.698	0.00	0.00
ATOM	1776	N	ILE	X	114	37.521	48.997	42.419	0.00	0.00
ATOM	1777	H	ILE	X	114	37.353	48.227	41.788	0.00	0.00
ATOM	1778	CA	ILE	X	114	37.746	48.644	43.939	0.00	0.00
ATOM	1779	HA	ILE	X	114	37.991	49.524	44.534	0.00	0.00
ATOM	1780	CB	ILE	X	114	36.483	47.987	44.550	0.00	0.00
ATOM	1781	HB	ILE	X	114	36.493	46.980	44.134	0.00	0.00
ATOM	1782	CG2	ILE	X	114	36.610	47.931	46.138	0.00	0.00
ATOM	1783	HG21	ILE	X	114	35.894	47.175	46.461	0.00	0.00
ATOM	1784	HG22	ILE	X	114	37.603	47.552	46.380	0.00	0.00
ATOM	1785	HG23	ILE	X	114	36.417	48.856	46.681	0.00	0.00
ATOM	1786	CG1	ILE	X	114	35.124	48.679	44.098	0.00	0.00
ATOM	1787	HG12	ILE	X	114	35.138	49.758	44.248	0.00	0.00
ATOM	1788	HG13	ILE	X	114	34.974	48.333	43.076	0.00	0.00
ATOM	1789	CD1	ILE	X	114	33.920	48.181	44.963	0.00	0.00

ATOM	1790	HD11	ILE	X	114	33.036	48.615	44.495	0.00	0.00
ATOM	1791	HD12	ILE	X	114	33.923	47.093	44.897	0.00	0.00
ATOM	1792	HD13	ILE	X	114	33.937	48.543	45.991	0.00	0.00
ATOM	1793	C	ILE	X	114	38.985	47.669	43.954	0.00	0.00
ATOM	1794	O	ILE	X	114	39.138	46.798	43.115	0.00	0.00
ATOM	1795	N	TYR	X	115	39.903	47.844	44.885	0.00	0.00
ATOM	1796	H	TYR	X	115	39.668	48.200	45.800	0.00	0.00
ATOM	1797	CA	TYR	X	115	41.221	47.155	44.875	0.00	0.00
ATOM	1798	HA	TYR	X	115	41.381	46.929	43.821	0.00	0.00
ATOM	1799	CB	TYR	X	115	42.362	48.067	45.316	0.00	0.00
ATOM	1800	HB2	TYR	X	115	43.245	47.431	45.378	0.00	0.00
ATOM	1801	HB3	TYR	X	115	42.498	48.770	44.494	0.00	0.00
ATOM	1802	CG	TYR	X	115	42.217	48.809	46.615	0.00	0.00
ATOM	1803	CD1	TYR	X	115	42.142	48.097	47.758	0.00	0.00
ATOM	1804	HD1	TYR	X	115	42.260	47.025	47.822	0.00	0.00
ATOM	1805	CE1	TYR	X	115	41.929	48.767	49.013	0.00	0.00
ATOM	1806	HE1	TYR	X	115	41.908	48.203	49.933	0.00	0.00
ATOM	1807	CZ	TYR	X	115	41.694	50.162	49.063	0.00	0.00
ATOM	1808	OH	TYR	X	115	41.653	50.798	50.234	0.00	0.00
ATOM	1809	HH	TYR	X	115	41.711	51.754	50.177	0.00	0.00
ATOM	1810	CE2	TYR	X	115	41.706	50.858	47.787	0.00	0.00
ATOM	1811	HE2	TYR	X	115	41.665	51.936	47.746	0.00	0.00
ATOM	1812	CD2	TYR	X	115	42.017	50.173	46.556	0.00	0.00
ATOM	1813	HD2	TYR	X	115	41.979	50.614	45.571	0.00	0.00
ATOM	1814	C	TYR	X	115	41.270	45.720	45.473	0.00	0.00
ATOM	1815	O	TYR	X	115	40.709	45.433	46.565	0.00	0.00
ATOM	1816	N	GLY	X	116	41.950	44.873	44.698	0.00	0.00
ATOM	1817	H	GLY	X	116	42.299	45.215	43.814	0.00	0.00
ATOM	1818	CA	GLY	X	116	42.701	43.711	45.209	0.00	0.00
ATOM	1819	HA2	GLY	X	116	41.962	43.104	45.649	0.00	0.00
ATOM	1820	HA3	GLY	X	116	43.181	43.200	44.371	0.00	0.00
ATOM	1821	C	GLY	X	116	43.743	44.054	46.297	0.00	0.00
ATOM	1822	O	GLY	X	116	44.111	45.181	46.435	0.00	0.00
ATOM	1823	N	GLY	X	117	44.170	43.056	47.095	0.00	0.00
ATOM	1824	H	GLY	X	117	44.003	42.078	46.907	0.00	0.00
ATOM	1825	CA	GLY	X	117	45.044	43.322	48.273	0.00	0.00
ATOM	1826	HA2	GLY	X	117	46.026	43.243	47.868	0.00	0.00
ATOM	1827	HA3	GLY	X	117	45.023	44.315	48.701	0.00	0.00
ATOM	1828	C	GLY	X	117	44.987	42.279	49.405	0.00	0.00
ATOM	1829	O	GLY	X	117	45.485	42.510	50.514	0.00	0.00
ATOM	1830	N	GLY	X	118	44.194	41.178	49.196	0.00	0.00
ATOM	1831	H	GLY	X	118	43.811	40.958	48.288	0.00	0.00
ATOM	1832	CA	GLY	X	118	43.982	40.230	50.270	0.00	0.00
ATOM	1833	HA2	GLY	X	118	43.507	39.311	50.000	0.00	0.00
ATOM	1834	HA3	GLY	X	118	44.933	40.059	50.682	0.00	0.00
ATOM	1835	C	GLY	X	118	43.079	40.720	51.421	0.00	0.00
ATOM	1836	O	GLY	X	118	43.071	40.034	52.398	0.00	0.00
ATOM	1837	N	PHE	X	119	42.436	41.866	51.274	0.00	0.00
ATOM	1838	H	PHE	X	119	42.620	42.345	50.404	0.00	0.00
ATOM	1839	CA	PHE	X	119	41.655	42.661	52.265	0.00	0.00
ATOM	1840	HA	PHE	X	119	41.355	43.614	51.830	0.00	0.00
ATOM	1841	CB	PHE	X	119	40.386	41.950	52.822	0.00	0.00
ATOM	1842	HB2	PHE	X	119	40.683	41.220	53.576	0.00	0.00
ATOM	1843	HB3	PHE	X	119	39.893	42.800	53.293	0.00	0.00
ATOM	1844	CG	PHE	X	119	39.492	41.273	51.871	0.00	0.00
ATOM	1845	CD1	PHE	X	119	38.609	41.881	50.975	0.00	0.00
ATOM	1846	HD1	PHE	X	119	38.395	42.938	50.915	0.00	0.00
ATOM	1847	CE1	PHE	X	119	37.854	41.147	50.095	0.00	0.00
ATOM	1848	HE1	PHE	X	119	37.145	41.662	49.464	0.00	0.00
ATOM	1849	CZ	PHE	X	119	37.953	39.748	50.106	0.00	0.00
ATOM	1850	HZ	PHE	X	119	37.303	39.189	49.448	0.00	0.00
ATOM	1851	CE2	PHE	X	119	38.905	39.137	51.008	0.00	0.00
ATOM	1852	HE2	PHE	X	119	38.977	38.065	51.125	0.00	0.00
ATOM	1853	CD2	PHE	X	119	39.660	39.861	51.908	0.00	0.00
ATOM	1854	HD2	PHE	X	119	40.266	39.360	52.648	0.00	0.00
ATOM	1855	C	PHE	X	119	42.474	43.094	53.529	0.00	0.00
ATOM	1856	O	PHE	X	119	42.002	44.006	54.203	0.00	0.00
ATOM	1857	N	TYR	X	120	43.621	42.492	53.762	0.00	0.00
ATOM	1858	H	TYR	X	120	43.832	41.667	53.220	0.00	0.00
ATOM	1859	CA	TYR	X	120	44.578	42.913	54.840	0.00	0.00

ATOM	1860	HA	TYR	X	120	44.128	43.208	55.788	0.00	0.00
ATOM	1861	CB	TYR	X	120	45.552	41.754	55.087	0.00	0.00
ATOM	1862	HB2	TYR	X	120	46.021	41.977	56.045	0.00	0.00
ATOM	1863	HB3	TYR	X	120	45.082	40.785	55.258	0.00	0.00
ATOM	1864	CG	TYR	X	120	46.774	41.564	54.203	0.00	0.00
ATOM	1865	CD1	TYR	X	120	48.021	42.152	54.509	0.00	0.00
ATOM	1866	HD1	TYR	X	120	48.052	42.813	55.362	0.00	0.00
ATOM	1867	CE1	TYR	X	120	49.217	41.833	53.849	0.00	0.00
ATOM	1868	HE1	TYR	X	120	50.129	42.328	54.148	0.00	0.00
ATOM	1869	CZ	TYR	X	120	49.194	40.836	52.865	0.00	0.00
ATOM	1870	OH	TYR	X	120	50.265	40.580	52.081	0.00	0.00
ATOM	1871	HH	TYR	X	120	51.054	41.065	52.335	0.00	0.00
ATOM	1872	CE2	TYR	X	120	47.934	40.212	52.585	0.00	0.00
ATOM	1873	HE2	TYR	X	120	48.074	39.484	51.800	0.00	0.00
ATOM	1874	CD2	TYR	X	120	46.785	40.589	53.186	0.00	0.00
ATOM	1875	HD2	TYR	X	120	45.949	39.952	52.940	0.00	0.00
ATOM	1876	C	TYR	X	120	45.405	44.119	54.418	0.00	0.00
ATOM	1877	O	TYR	X	120	46.275	44.556	55.136	0.00	0.00
ATOM	1878	N	SER	X	121	45.204	44.574	53.121	0.00	0.00
ATOM	1879	H	SER	X	121	44.560	44.170	52.456	0.00	0.00
ATOM	1880	CA	SER	X	121	46.139	45.608	52.505	0.00	0.00
ATOM	1881	HA	SER	X	121	46.038	46.551	53.042	0.00	0.00
ATOM	1882	CB	SER	X	121	47.584	45.119	52.305	0.00	0.00
ATOM	1883	HB2	SER	X	121	48.156	45.912	51.824	0.00	0.00
ATOM	1884	HB3	SER	X	121	48.043	44.908	53.271	0.00	0.00
ATOM	1885	OG	SER	X	121	47.579	43.996	51.430	0.00	0.00
ATOM	1886	HG	SER	X	121	46.786	43.455	51.423	0.00	0.00
ATOM	1887	C	SER	X	121	45.538	45.945	51.112	0.00	0.00
ATOM	1888	O	SER	X	121	44.486	45.358	50.690	0.00	0.00
ATOM	1889	N	GLY	X	122	45.983	47.044	50.476	0.00	0.00
ATOM	1890	H	GLY	X	122	46.701	47.553	50.972	0.00	0.00
ATOM	1891	CA	GLY	X	122	45.415	47.679	49.282	0.00	0.00
ATOM	1892	HA2	GLY	X	122	46.064	47.438	48.487	0.00	0.00
ATOM	1893	HA3	GLY	X	122	44.381	47.314	49.067	0.00	0.00
ATOM	1894	C	GLY	X	122	45.312	49.194	49.423	0.00	0.00
ATOM	1895	O	GLY	X	122	45.080	49.715	50.532	0.00	0.00
ATOM	1896	N	ALA	X	123	45.352	49.850	48.289	0.00	0.00
ATOM	1897	H	ALA	X	123	45.451	49.315	47.438	0.00	0.00
ATOM	1898	CA	ALA	X	123	45.026	51.271	48.179	0.00	0.00
ATOM	1899	HA	ALA	X	123	44.105	51.466	48.729	0.00	0.00
ATOM	1900	CB	ALA	X	123	46.160	52.227	48.700	0.00	0.00
ATOM	1901	HB1	ALA	X	123	46.386	51.950	49.730	0.00	0.00
ATOM	1902	HB2	ALA	X	123	47.083	52.144	48.126	0.00	0.00
ATOM	1903	HB3	ALA	X	123	45.856	53.271	48.779	0.00	0.00
ATOM	1904	C	ALA	X	123	44.802	51.758	46.770	0.00	0.00
ATOM	1905	O	ALA	X	123	45.359	51.230	45.817	0.00	0.00
ATOM	1906	N	SER	X	124	44.066	52.844	46.580	0.00	0.00
ATOM	1907	H	SER	X	124	43.608	53.215	47.400	0.00	0.00
ATOM	1908	CA	SER	X	124	43.969	53.569	45.327	0.00	0.00
ATOM	1909	HA	SER	X	124	43.883	52.781	44.579	0.00	0.00
ATOM	1910	CB	SER	X	124	42.677	54.353	45.244	0.00	0.00
ATOM	1911	HB2	SER	X	124	42.627	55.037	44.397	0.00	0.00
ATOM	1912	HB3	SER	X	124	41.894	53.605	45.117	0.00	0.00
ATOM	1913	OG	SER	X	124	42.420	55.187	46.345	0.00	0.00
ATOM	1914	HG	SER	X	124	41.526	54.954	46.606	0.00	0.00
ATOM	1915	C	SER	X	124	45.202	54.453	44.914	0.00	0.00
ATOM	1916	O	SER	X	124	45.251	54.920	43.753	0.00	0.00
ATOM	1917	N	SER	X	125	46.304	54.605	45.716	0.00	0.00
ATOM	1918	H	SER	X	125	46.305	54.140	46.612	0.00	0.00
ATOM	1919	CA	SER	X	125	47.520	55.333	45.371	0.00	0.00
ATOM	1920	HA	SER	X	125	47.207	56.260	44.891	0.00	0.00
ATOM	1921	CB	SER	X	125	48.188	55.682	46.675	0.00	0.00
ATOM	1922	HB2	SER	X	125	49.112	56.229	46.487	0.00	0.00
ATOM	1923	HB3	SER	X	125	47.483	56.247	47.284	0.00	0.00
ATOM	1924	OG	SER	X	125	48.498	54.459	47.299	0.00	0.00
ATOM	1925	HG	SER	X	125	49.423	54.237	47.428	0.00	0.00
ATOM	1926	C	SER	X	125	48.458	54.630	44.357	0.00	0.00
ATOM	1927	O	SER	X	125	49.395	55.240	43.901	0.00	0.00
ATOM	1928	N	LEU	X	126	48.252	53.346	44.038	0.00	0.00
ATOM	1929	H	LEU	X	126	47.406	52.947	44.417	0.00	0.00

ATOM	1930	CA	LEU	X	126	49.268	52.381	43.609	0.00	0.00
ATOM	1931	HA	LEU	X	126	50.262	52.600	43.999	0.00	0.00
ATOM	1932	CB	LEU	X	126	48.953	50.975	44.137	0.00	0.00
ATOM	1933	HB2	LEU	X	126	47.983	50.722	43.709	0.00	0.00
ATOM	1934	HB3	LEU	X	126	49.693	50.263	43.772	0.00	0.00
ATOM	1935	CG	LEU	X	126	48.915	50.907	45.677	0.00	0.00
ATOM	1936	HG	LEU	X	126	48.099	51.512	46.073	0.00	0.00
ATOM	1937	CD1	LEU	X	126	48.413	49.505	46.068	0.00	0.00
ATOM	1938	HD11	LEU	X	126	49.111	48.793	45.628	0.00	0.00
ATOM	1939	HD12	LEU	X	126	48.380	49.311	47.140	0.00	0.00
ATOM	1940	HD13	LEU	X	126	47.541	49.182	45.500	0.00	0.00
ATOM	1941	CD2	LEU	X	126	50.153	51.248	46.447	0.00	0.00
ATOM	1942	HD21	LEU	X	126	50.614	52.185	46.137	0.00	0.00
ATOM	1943	HD22	LEU	X	126	49.925	51.337	47.509	0.00	0.00
ATOM	1944	HD23	LEU	X	126	50.904	50.481	46.255	0.00	0.00
ATOM	1945	C	LEU	X	126	49.345	52.317	42.086	0.00	0.00
ATOM	1946	O	LEU	X	126	48.389	52.616	41.402	0.00	0.00
ATOM	1947	N	ASP	X	127	50.555	51.939	41.674	0.00	0.00
ATOM	1948	H	ASP	X	127	51.211	51.495	42.300	0.00	0.00
ATOM	1949	CA	ASP	X	127	51.192	52.424	40.363	0.00	0.00
ATOM	1950	HA	ASP	X	127	51.083	53.506	40.277	0.00	0.00
ATOM	1951	CB	ASP	X	127	52.707	52.173	40.526	0.00	0.00
ATOM	1952	HB2	ASP	X	127	52.844	52.363	41.590	0.00	0.00
ATOM	1953	HB3	ASP	X	127	52.910	51.148	40.215	0.00	0.00
ATOM	1954	CG	ASP	X	127	53.639	53.093	39.739	0.00	0.00
ATOM	1955	OD1	ASP	X	127	54.474	52.520	38.978	0.00	0.00
ATOM	1956	OD2	ASP	X	127	53.752	54.327	39.927	0.00	0.00
ATOM	1957	C	ASP	X	127	50.716	51.792	39.057	0.00	0.00
ATOM	1958	O	ASP	X	127	51.222	52.328	38.067	0.00	0.00
ATOM	1959	N	VAL	X	128	49.799	50.767	39.061	0.00	0.00
ATOM	1960	H	VAL	X	128	49.408	50.579	39.973	0.00	0.00
ATOM	1961	CA	VAL	X	128	49.086	50.282	37.867	0.00	0.00
ATOM	1962	HA	VAL	X	128	49.662	50.649	37.018	0.00	0.00
ATOM	1963	CB	VAL	X	128	48.883	48.791	38.024	0.00	0.00
ATOM	1964	HB	VAL	X	128	48.175	48.556	38.819	0.00	0.00
ATOM	1965	CG1	VAL	X	128	48.102	48.159	36.744	0.00	0.00
ATOM	1966	HG11	VAL	X	128	47.038	48.045	36.953	0.00	0.00
ATOM	1967	HG12	VAL	X	128	48.350	48.729	35.848	0.00	0.00
ATOM	1968	HG13	VAL	X	128	48.494	47.167	36.519	0.00	0.00
ATOM	1969	CG2	VAL	X	128	50.204	48.040	38.153	0.00	0.00
ATOM	1970	HG21	VAL	X	128	50.624	48.269	39.132	0.00	0.00
ATOM	1971	HG22	VAL	X	128	50.057	46.973	38.318	0.00	0.00
ATOM	1972	HG23	VAL	X	128	50.893	48.168	37.318	0.00	0.00
ATOM	1973	C	VAL	X	128	47.553	50.903	37.914	0.00	0.00
ATOM	1974	O	VAL	X	128	46.921	50.898	36.848	0.00	0.00
ATOM	1975	N	TYR	X	129	46.933	51.208	39.091	0.00	0.00
ATOM	1976	H	TYR	X	129	47.475	51.154	39.942	0.00	0.00
ATOM	1977	CA	TYR	X	129	45.632	51.722	39.208	0.00	0.00
ATOM	1978	HA	TYR	X	129	45.126	51.217	38.385	0.00	0.00
ATOM	1979	CB	TYR	X	129	45.021	51.509	40.625	0.00	0.00
ATOM	1980	HB2	TYR	X	129	45.349	52.254	41.351	0.00	0.00
ATOM	1981	HB3	TYR	X	129	43.935	51.580	40.585	0.00	0.00
ATOM	1982	CG	TYR	X	129	45.039	50.156	41.386	0.00	0.00
ATOM	1983	CD1	TYR	X	129	44.719	49.006	40.680	0.00	0.00
ATOM	1984	HD1	TYR	X	129	44.402	49.110	39.653	0.00	0.00
ATOM	1985	CE1	TYR	X	129	44.618	47.795	41.385	0.00	0.00
ATOM	1986	HE1	TYR	X	129	44.149	46.949	40.905	0.00	0.00
ATOM	1987	CZ	TYR	X	129	45.025	47.679	42.755	0.00	0.00
ATOM	1988	OH	TYR	X	129	44.738	46.539	43.420	0.00	0.00
ATOM	1989	HH	TYR	X	129	44.556	45.786	42.852	0.00	0.00
ATOM	1990	CE2	TYR	X	129	45.488	48.933	43.373	0.00	0.00
ATOM	1991	HE2	TYR	X	129	45.840	48.884	44.393	0.00	0.00
ATOM	1992	CD2	TYR	X	129	45.543	50.140	42.716	0.00	0.00
ATOM	1993	HD2	TYR	X	129	45.934	51.012	43.220	0.00	0.00
ATOM	1994	C	TYR	X	129	45.431	53.192	38.752	0.00	0.00
ATOM	1995	O	TYR	X	129	45.092	54.079	39.579	0.00	0.00
ATOM	1996	N	ASP	X	130	45.536	53.453	37.457	0.00	0.00
ATOM	1997	H	ASP	X	130	45.628	52.677	36.816	0.00	0.00
ATOM	1998	CA	ASP	X	130	45.471	54.821	36.894	0.00	0.00
ATOM	1999	HA	ASP	X	130	44.990	55.505	37.594	0.00	0.00

ATOM	2000	CB	ASP	X	130	46.966	55.263	36.805	0.00	0.00
ATOM	2001	HB2	ASP	X	130	47.378	55.116	37.804	0.00	0.00
ATOM	2002	HB3	ASP	X	130	47.489	54.441	36.316	0.00	0.00
ATOM	2003	CG	ASP	X	130	47.041	56.667	36.083	0.00	0.00
ATOM	2004	OD1	ASP	X	130	47.133	56.712	34.866	0.00	0.00
ATOM	2005	OD2	ASP	X	130	47.111	57.743	36.776	0.00	0.00
ATOM	2006	C	ASP	X	130	44.710	54.884	35.589	0.00	0.00
ATOM	2007	O	ASP	X	130	44.849	54.007	34.715	0.00	0.00
ATOM	2008	N	GLY	X	131	43.832	55.885	35.413	0.00	0.00
ATOM	2009	H	GLY	X	131	43.787	56.579	36.146	0.00	0.00
ATOM	2010	CA	GLY	X	131	42.901	55.895	34.327	0.00	0.00
ATOM	2011	HA2	GLY	X	131	42.437	54.862	34.234	0.00	0.00
ATOM	2012	HA3	GLY	X	131	42.190	56.599	34.636	0.00	0.00
ATOM	2013	C	GLY	X	131	43.349	56.340	32.940	0.00	0.00
ATOM	2014	O	GLY	X	131	42.724	55.998	31.942	0.00	0.00
ATOM	2015	N	ARG	X	132	44.542	56.973	32.876	0.00	0.00
ATOM	2016	H	ARG	X	132	45.133	56.901	33.692	0.00	0.00
ATOM	2017	CA	ARG	X	132	44.937	57.867	31.814	0.00	0.00
ATOM	2018	HA	ARG	X	132	44.246	58.710	31.848	0.00	0.00
ATOM	2019	CB	ARG	X	132	46.331	58.428	32.070	0.00	0.00
ATOM	2020	HB2	ARG	X	132	46.465	59.287	31.414	0.00	0.00
ATOM	2021	HB3	ARG	X	132	46.377	58.899	33.052	0.00	0.00
ATOM	2022	CG	ARG	X	132	47.598	57.596	31.786	0.00	0.00
ATOM	2023	HG2	ARG	X	132	47.410	56.697	32.374	0.00	0.00
ATOM	2024	HG3	ARG	X	132	47.646	57.317	30.734	0.00	0.00
ATOM	2025	CD	ARG	X	132	48.785	58.395	32.280	0.00	0.00
ATOM	2026	HD2	ARG	X	132	49.715	57.918	31.973	0.00	0.00
ATOM	2027	HD3	ARG	X	132	48.783	59.396	31.849	0.00	0.00
ATOM	2028	NE	ARG	X	132	48.726	58.595	33.709	0.00	0.00
ATOM	2029	HE	ARG	X	132	47.935	58.170	34.171	0.00	0.00
ATOM	2030	CZ	ARG	X	132	49.506	59.302	34.499	0.00	0.00
ATOM	2031	NH1	ARG	X	132	50.502	59.937	34.056	0.00	0.00
ATOM	2032	HH11	ARG	X	132	50.675	59.998	33.063	0.00	0.00
ATOM	2033	HH12	ARG	X	132	51.113	60.416	34.703	0.00	0.00
ATOM	2034	NH2	ARG	X	132	49.220	59.303	35.831	0.00	0.00
ATOM	2035	HH21	ARG	X	132	48.557	58.665	36.247	0.00	0.00
ATOM	2036	HH22	ARG	X	132	49.849	59.599	36.563	0.00	0.00
ATOM	2037	C	ARG	X	132	44.737	57.214	30.433	0.00	0.00
ATOM	2038	O	ARG	X	132	43.858	57.808	29.721	0.00	0.00
ATOM	2039	N	PHE	X	133	45.392	56.116	30.043	0.00	0.00
ATOM	2040	H	PHE	X	133	45.981	55.615	30.692	0.00	0.00
ATOM	2041	CA	PHE	X	133	45.329	55.506	28.687	0.00	0.00
ATOM	2042	HA	PHE	X	133	45.500	56.279	27.938	0.00	0.00
ATOM	2043	CB	PHE	X	133	46.341	54.366	28.453	0.00	0.00
ATOM	2044	HB2	PHE	X	133	46.034	53.472	28.996	0.00	0.00
ATOM	2045	HB3	PHE	X	133	46.325	54.252	27.369	0.00	0.00
ATOM	2046	CG	PHE	X	133	47.763	54.778	28.853	0.00	0.00
ATOM	2047	CD1	PHE	X	133	48.406	54.174	30.007	0.00	0.00
ATOM	2048	HD1	PHE	X	133	48.031	53.360	30.611	0.00	0.00
ATOM	2049	CE1	PHE	X	133	49.668	54.631	30.333	0.00	0.00
ATOM	2050	HE1	PHE	X	133	50.186	54.128	31.136	0.00	0.00
ATOM	2051	CZ	PHE	X	133	50.373	55.537	29.590	0.00	0.00
ATOM	2052	HZ	PHE	X	133	51.339	55.836	29.968	0.00	0.00
ATOM	2053	CE2	PHE	X	133	49.775	56.207	28.465	0.00	0.00
ATOM	2054	HE2	PHE	X	133	50.232	56.914	27.789	0.00	0.00
ATOM	2055	CD2	PHE	X	133	48.465	55.771	28.065	0.00	0.00
ATOM	2056	HD2	PHE	X	133	48.041	56.282	27.214	0.00	0.00
ATOM	2057	C	PHE	X	133	43.945	54.935	28.305	0.00	0.00
ATOM	2058	O	PHE	X	133	43.388	55.183	27.209	0.00	0.00
ATOM	2059	N	LEU	X	134	43.300	54.256	29.256	0.00	0.00
ATOM	2060	H	LEU	X	134	43.725	54.006	30.137	0.00	0.00
ATOM	2061	CA	LEU	X	134	41.899	53.810	29.094	0.00	0.00
ATOM	2062	HA	LEU	X	134	41.908	53.251	28.159	0.00	0.00
ATOM	2063	CB	LEU	X	134	41.564	53.007	30.386	0.00	0.00
ATOM	2064	HB2	LEU	X	134	42.215	52.134	30.436	0.00	0.00
ATOM	2065	HB3	LEU	X	134	41.770	53.614	31.268	0.00	0.00
ATOM	2066	CG	LEU	X	134	40.134	52.527	30.617	0.00	0.00
ATOM	2067	HG	LEU	X	134	39.553	53.444	30.717	0.00	0.00
ATOM	2068	CD1	LEU	X	134	39.382	51.800	29.510	0.00	0.00
ATOM	2069	HD11	LEU	X	134	38.323	52.054	29.467	0.00	0.00

ATOM	2070	HD12	LEU	X	134	39.878	51.966	28.553	0.00	0.00
ATOM	2071	HD13	LEU	X	134	39.613	50.740	29.615	0.00	0.00
ATOM	2072	CD2	LEU	X	134	40.025	51.788	31.966	0.00	0.00
ATOM	2073	HD21	LEU	X	134	39.066	51.320	32.189	0.00	0.00
ATOM	2074	HD22	LEU	X	134	40.727	50.955	31.931	0.00	0.00
ATOM	2075	HD23	LEU	X	134	40.322	52.468	32.764	0.00	0.00
ATOM	2076	C	LEU	X	134	40.853	54.967	28.849	0.00	0.00
ATOM	2077	O	LEU	X	134	39.957	54.990	28.026	0.00	0.00
ATOM	2078	N	VAL	X	135	41.016	56.061	29.609	0.00	0.00
ATOM	2079	H	VAL	X	135	41.676	55.943	30.365	0.00	0.00
ATOM	2080	CA	VAL	X	135	40.213	57.337	29.524	0.00	0.00
ATOM	2081	HA	VAL	X	135	39.165	57.040	29.496	0.00	0.00
ATOM	2082	CB	VAL	X	135	40.387	58.155	30.800	0.00	0.00
ATOM	2083	HB	VAL	X	135	41.464	58.234	30.942	0.00	0.00
ATOM	2084	CG1	VAL	X	135	39.866	59.599	30.828	0.00	0.00
ATOM	2085	HG11	VAL	X	135	40.459	60.156	30.103	0.00	0.00
ATOM	2086	HG12	VAL	X	135	38.782	59.600	30.713	0.00	0.00
ATOM	2087	HG13	VAL	X	135	40.152	59.896	31.837	0.00	0.00
ATOM	2088	CG2	VAL	X	135	39.764	57.507	32.028	0.00	0.00
ATOM	2089	HG21	VAL	X	135	40.042	56.458	32.129	0.00	0.00
ATOM	2090	HG22	VAL	X	135	40.159	58.007	32.913	0.00	0.00
ATOM	2091	HG23	VAL	X	135	38.684	57.364	31.989	0.00	0.00
ATOM	2092	C	VAL	X	135	40.623	58.170	28.227	0.00	0.00
ATOM	2093	O	VAL	X	135	39.833	59.008	27.814	0.00	0.00
ATOM	2094	N	GLN	X	136	41.840	57.962	27.643	0.00	0.00
ATOM	2095	H	GLN	X	136	42.508	57.379	28.127	0.00	0.00
ATOM	2096	CA	GLN	X	136	42.240	58.579	26.371	0.00	0.00
ATOM	2097	HA	GLN	X	136	41.880	59.605	26.298	0.00	0.00
ATOM	2098	CB	GLN	X	136	43.804	58.673	26.244	0.00	0.00
ATOM	2099	HB2	GLN	X	136	44.274	58.721	27.226	0.00	0.00
ATOM	2100	HB3	GLN	X	136	44.004	57.700	25.795	0.00	0.00
ATOM	2101	CG	GLN	X	136	44.270	59.836	25.291	0.00	0.00
ATOM	2102	HG2	GLN	X	136	43.919	60.779	25.710	0.00	0.00
ATOM	2103	HG3	GLN	X	136	45.354	59.952	25.263	0.00	0.00
ATOM	2104	CD	GLN	X	136	43.772	59.738	23.801	0.00	0.00
ATOM	2105	OE1	GLN	X	136	43.744	58.662	23.207	0.00	0.00
ATOM	2106	NE2	GLN	X	136	43.274	60.821	23.255	0.00	0.00
ATOM	2107	HE21	GLN	X	136	43.089	60.780	22.263	0.00	0.00
ATOM	2108	HE22	GLN	X	136	43.246	61.697	23.757	0.00	0.00
ATOM	2109	C	GLN	X	136	41.548	57.859	25.221	0.00	0.00
ATOM	2110	O	GLN	X	136	40.906	58.462	24.309	0.00	0.00
ATOM	2111	N	ALA	X	137	41.519	56.526	25.294	0.00	0.00
ATOM	2112	H	ALA	X	137	42.109	56.147	26.021	0.00	0.00
ATOM	2113	CA	ALA	X	137	40.872	55.642	24.355	0.00	0.00
ATOM	2114	HA	ALA	X	137	41.158	55.979	23.358	0.00	0.00
ATOM	2115	CB	ALA	X	137	41.426	54.221	24.480	0.00	0.00
ATOM	2116	HB1	ALA	X	137	42.513	54.257	24.400	0.00	0.00
ATOM	2117	HB2	ALA	X	137	41.066	53.722	25.379	0.00	0.00
ATOM	2118	HB3	ALA	X	137	41.100	53.654	23.608	0.00	0.00
ATOM	2119	C	ALA	X	137	39.380	55.688	24.293	0.00	0.00
ATOM	2120	O	ALA	X	137	38.745	56.047	23.256	0.00	0.00
ATOM	2121	N	GLU	X	138	38.765	55.079	25.381	0.00	0.00
ATOM	2122	H	GLU	X	138	39.307	54.725	26.156	0.00	0.00
ATOM	2123	CA	GLU	X	138	37.327	54.674	25.404	0.00	0.00
ATOM	2124	HA	GLU	X	138	37.068	54.726	24.347	0.00	0.00
ATOM	2125	CB	GLU	X	138	37.289	53.265	26.058	0.00	0.00
ATOM	2126	HB2	GLU	X	138	37.728	53.288	27.055	0.00	0.00
ATOM	2127	HB3	GLU	X	138	36.277	52.892	26.215	0.00	0.00
ATOM	2128	CG	GLU	X	138	38.022	52.219	25.178	0.00	0.00
ATOM	2129	HG2	GLU	X	138	39.079	52.462	25.074	0.00	0.00
ATOM	2130	HG3	GLU	X	138	37.947	51.275	25.718	0.00	0.00
ATOM	2131	CD	GLU	X	138	37.531	52.104	23.720	0.00	0.00
ATOM	2132	OE1	GLU	X	138	36.292	52.091	23.394	0.00	0.00
ATOM	2133	OE2	GLU	X	138	38.431	52.062	22.881	0.00	0.00
ATOM	2134	C	GLU	X	138	36.457	55.674	26.059	0.00	0.00
ATOM	2135	O	GLU	X	138	35.235	55.430	26.125	0.00	0.00
ATOM	2136	N	ARG	X	139	37.029	56.752	26.575	0.00	0.00
ATOM	2137	H	ARG	X	139	38.038	56.761	26.541	0.00	0.00
ATOM	2138	CA	ARG	X	139	36.395	57.981	27.143	0.00	0.00
ATOM	2139	HA	ARG	X	139	37.166	58.680	27.467	0.00	0.00

ATOM	2140	CB	ARG	X	139	35.594	58.784	26.098	0.00	0.00
ATOM	2141	HB2	ARG	X	139	34.741	58.248	25.684	0.00	0.00
ATOM	2142	HB3	ARG	X	139	35.169	59.680	26.551	0.00	0.00
ATOM	2143	CG	ARG	X	139	36.264	59.165	24.818	0.00	0.00
ATOM	2144	HG2	ARG	X	139	36.488	58.257	24.259	0.00	0.00
ATOM	2145	HG3	ARG	X	139	35.601	59.830	24.264	0.00	0.00
ATOM	2146	CD	ARG	X	139	37.499	59.987	25.147	0.00	0.00
ATOM	2147	HD2	ARG	X	139	37.188	60.824	25.773	0.00	0.00
ATOM	2148	HD3	ARG	X	139	38.228	59.414	25.718	0.00	0.00
ATOM	2149	NE	ARG	X	139	38.158	60.605	23.964	0.00	0.00
ATOM	2150	HE	ARG	X	139	37.693	60.456	23.080	0.00	0.00
ATOM	2151	CZ	ARG	X	139	39.265	61.300	24.066	0.00	0.00
ATOM	2152	NH1	ARG	X	139	39.873	61.410	25.212	0.00	0.00
ATOM	2153	HH11	ARG	X	139	39.467	60.920	25.996	0.00	0.00
ATOM	2154	HH12	ARG	X	139	40.746	61.906	25.319	0.00	0.00
ATOM	2155	NH2	ARG	X	139	39.623	62.004	22.994	0.00	0.00
ATOM	2156	HH21	ARG	X	139	39.205	61.858	22.086	0.00	0.00
ATOM	2157	HH22	ARG	X	139	40.428	62.605	23.096	0.00	0.00
ATOM	2158	C	ARG	X	139	35.662	57.807	28.478	0.00	0.00
ATOM	2159	O	ARG	X	139	35.336	58.809	29.151	0.00	0.00
ATOM	2160	N	THR	X	140	35.494	56.583	28.923	0.00	0.00
ATOM	2161	H	THR	X	140	35.986	55.909	28.354	0.00	0.00
ATOM	2162	CA	THR	X	140	34.762	56.142	30.180	0.00	0.00
ATOM	2163	HA	THR	X	140	33.709	56.412	30.107	0.00	0.00
ATOM	2164	CB	THR	X	140	34.731	54.646	30.363	0.00	0.00
ATOM	2165	HB	THR	X	140	34.471	54.344	31.378	0.00	0.00
ATOM	2166	CG2	THR	X	140	33.737	54.035	29.347	0.00	0.00
ATOM	2167	HG21	THR	X	140	33.733	52.957	29.507	0.00	0.00
ATOM	2168	HG22	THR	X	140	32.724	54.438	29.342	0.00	0.00
ATOM	2169	HG23	THR	X	140	34.111	54.130	28.328	0.00	0.00
ATOM	2170	OG1	THR	X	140	35.972	54.228	29.984	0.00	0.00
ATOM	2171	HG1	THR	X	140	36.594	54.593	30.616	0.00	0.00
ATOM	2172	C	THR	X	140	35.274	56.868	31.389	0.00	0.00
ATOM	2173	O	THR	X	140	36.441	56.759	31.648	0.00	0.00
ATOM	2174	N	VAL	X	141	34.454	57.582	32.195	0.00	0.00
ATOM	2175	H	VAL	X	141	33.448	57.492	32.185	0.00	0.00
ATOM	2176	CA	VAL	X	141	34.973	58.364	33.324	0.00	0.00
ATOM	2177	HA	VAL	X	141	35.870	58.829	32.915	0.00	0.00
ATOM	2178	CB	VAL	X	141	33.929	59.439	33.663	0.00	0.00
ATOM	2179	HB	VAL	X	141	32.962	58.952	33.784	0.00	0.00
ATOM	2180	CG1	VAL	X	141	34.287	60.129	34.998	0.00	0.00
ATOM	2181	HG11	VAL	X	141	33.585	60.959	35.076	0.00	0.00
ATOM	2182	HG12	VAL	X	141	34.152	59.397	35.794	0.00	0.00
ATOM	2183	HG13	VAL	X	141	35.313	60.488	34.920	0.00	0.00
ATOM	2184	CG2	VAL	X	141	33.901	60.484	32.465	0.00	0.00
ATOM	2185	HG21	VAL	X	141	33.991	60.067	31.462	0.00	0.00
ATOM	2186	HG22	VAL	X	141	32.972	61.044	32.577	0.00	0.00
ATOM	2187	HG23	VAL	X	141	34.757	61.139	32.625	0.00	0.00
ATOM	2188	C	VAL	X	141	35.432	57.319	34.415	0.00	0.00
ATOM	2189	O	VAL	X	141	34.645	56.576	34.942	0.00	0.00
ATOM	2190	N	LEU	X	142	36.780	57.186	34.545	0.00	0.00
ATOM	2191	H	LEU	X	142	37.365	57.681	33.887	0.00	0.00
ATOM	2192	CA	LEU	X	142	37.432	56.263	35.472	0.00	0.00
ATOM	2193	HA	LEU	X	142	36.698	55.466	35.585	0.00	0.00
ATOM	2194	CB	LEU	X	142	38.790	55.784	34.978	0.00	0.00
ATOM	2195	HB2	LEU	X	142	38.710	55.443	33.946	0.00	0.00
ATOM	2196	HB3	LEU	X	142	39.476	56.630	34.930	0.00	0.00
ATOM	2197	CG	LEU	X	142	39.460	54.547	35.667	0.00	0.00
ATOM	2198	HG	LEU	X	142	40.193	54.079	35.011	0.00	0.00
ATOM	2199	CD1	LEU	X	142	40.368	55.161	36.781	0.00	0.00
ATOM	2200	HD11	LEU	X	142	40.810	56.123	36.522	0.00	0.00
ATOM	2201	HD12	LEU	X	142	39.746	55.325	37.661	0.00	0.00
ATOM	2202	HD13	LEU	X	142	41.259	54.578	37.012	0.00	0.00
ATOM	2203	CD2	LEU	X	142	38.556	53.462	36.155	0.00	0.00
ATOM	2204	HD21	LEU	X	142	38.169	53.658	37.155	0.00	0.00
ATOM	2205	HD22	LEU	X	142	37.806	53.198	35.409	0.00	0.00
ATOM	2206	HD23	LEU	X	142	39.148	52.548	36.213	0.00	0.00
ATOM	2207	C	LEU	X	142	37.515	56.936	36.845	0.00	0.00
ATOM	2208	O	LEU	X	142	38.250	57.938	37.097	0.00	0.00
ATOM	2209	N	VAL	X	143	36.915	56.345	37.843	0.00	0.00

ATOM	2210	H	VAL	X	143	36.525	55.441	37.617	0.00	0.00
ATOM	2211	CA	VAL	X	143	36.878	56.715	39.267	0.00	0.00
ATOM	2212	HA	VAL	X	143	37.360	57.664	39.502	0.00	0.00
ATOM	2213	CB	VAL	X	143	35.446	56.728	39.887	0.00	0.00
ATOM	2214	HB	VAL	X	143	35.002	55.740	39.762	0.00	0.00
ATOM	2215	CG1	VAL	X	143	35.254	57.280	41.319	0.00	0.00
ATOM	2216	HG11	VAL	X	143	35.618	56.601	42.090	0.00	0.00
ATOM	2217	HG12	VAL	X	143	35.780	58.212	41.523	0.00	0.00
ATOM	2218	HG13	VAL	X	143	34.182	57.436	41.438	0.00	0.00
ATOM	2219	CG2	VAL	X	143	34.641	57.727	39.041	0.00	0.00
ATOM	2220	HG21	VAL	X	143	34.753	57.615	37.962	0.00	0.00
ATOM	2221	HG22	VAL	X	143	33.618	57.588	39.388	0.00	0.00
ATOM	2222	HG23	VAL	X	143	34.913	58.767	39.227	0.00	0.00
ATOM	2223	C	VAL	X	143	37.546	55.527	40.050	0.00	0.00
ATOM	2224	O	VAL	X	143	37.544	54.413	39.623	0.00	0.00
ATOM	2225	N	SER	X	144	38.040	55.752	41.240	0.00	0.00
ATOM	2226	H	SER	X	144	38.170	56.712	41.528	0.00	0.00
ATOM	2227	CA	SER	X	144	38.477	54.671	42.205	0.00	0.00
ATOM	2228	HA	SER	X	144	37.734	53.874	42.212	0.00	0.00
ATOM	2229	CB	SER	X	144	39.874	54.083	41.902	0.00	0.00
ATOM	2230	HB2	SER	X	144	40.071	53.218	42.534	0.00	0.00
ATOM	2231	HB3	SER	X	144	40.096	53.812	40.869	0.00	0.00
ATOM	2232	OG	SER	X	144	40.882	55.013	42.258	0.00	0.00
ATOM	2233	HG	SER	X	144	41.706	54.616	41.968	0.00	0.00
ATOM	2234	C	SER	X	144	38.465	55.213	43.618	0.00	0.00
ATOM	2235	O	SER	X	144	38.613	56.419	43.808	0.00	0.00
ATOM	2236	N	MET	X	145	38.047	54.371	44.571	0.00	0.00
ATOM	2237	H	MET	X	145	37.988	53.394	44.325	0.00	0.00
ATOM	2238	CA	MET	X	145	37.739	54.687	45.979	0.00	0.00
ATOM	2239	HA	MET	X	145	37.553	55.760	46.027	0.00	0.00
ATOM	2240	CB	MET	X	145	36.323	54.076	46.252	0.00	0.00
ATOM	2241	HB2	MET	X	145	36.048	54.465	47.232	0.00	0.00
ATOM	2242	HB3	MET	X	145	35.565	54.472	45.575	0.00	0.00
ATOM	2243	CG	MET	X	145	36.206	52.576	46.250	0.00	0.00
ATOM	2244	HG2	MET	X	145	36.617	52.224	45.304	0.00	0.00
ATOM	2245	HG3	MET	X	145	36.872	52.308	47.070	0.00	0.00
ATOM	2246	SD	MET	X	145	34.619	51.757	46.541	0.00	0.00
ATOM	2247	CE	MET	X	145	33.770	51.913	44.996	0.00	0.00
ATOM	2248	HE1	MET	X	145	33.022	51.124	44.916	0.00	0.00
ATOM	2249	HE2	MET	X	145	33.193	52.837	44.972	0.00	0.00
ATOM	2250	HE3	MET	X	145	34.400	51.851	44.109	0.00	0.00
ATOM	2251	C	MET	X	145	38.825	54.302	47.030	0.00	0.00
ATOM	2252	O	MET	X	145	39.972	53.950	46.689	0.00	0.00
ATOM	2253	N	ASN	X	146	38.466	54.360	48.287	0.00	0.00
ATOM	2254	H	ASN	X	146	37.564	54.750	48.521	0.00	0.00
ATOM	2255	CA	ASN	X	146	39.284	53.902	49.457	0.00	0.00
ATOM	2256	HA	ASN	X	146	39.669	52.916	49.198	0.00	0.00
ATOM	2257	CB	ASN	X	146	40.405	54.867	49.733	0.00	0.00
ATOM	2258	HB2	ASN	X	146	40.668	55.334	48.784	0.00	0.00
ATOM	2259	HB3	ASN	X	146	40.122	55.616	50.473	0.00	0.00
ATOM	2260	CG	ASN	X	146	41.588	54.052	50.297	0.00	0.00
ATOM	2261	OD1	ASN	X	146	42.396	53.429	49.568	0.00	0.00
ATOM	2262	ND2	ASN	X	146	41.812	54.031	51.571	0.00	0.00
ATOM	2263	HD21	ASN	X	146	42.681	53.585	51.829	0.00	0.00
ATOM	2264	HD22	ASN	X	146	41.400	54.665	52.240	0.00	0.00
ATOM	2265	C	ASN	X	146	38.374	53.666	50.700	0.00	0.00
ATOM	2266	O	ASN	X	146	37.367	54.394	50.823	0.00	0.00
ATOM	2267	N	TYR	X	147	38.633	52.630	51.513	0.00	0.00
ATOM	2268	H	TYR	X	147	39.541	52.198	51.418	0.00	0.00
ATOM	2269	CA	TYR	X	147	37.860	52.156	52.565	0.00	0.00
ATOM	2270	HA	TYR	X	147	37.359	52.998	53.044	0.00	0.00
ATOM	2271	CB	TYR	X	147	36.790	51.256	51.992	0.00	0.00
ATOM	2272	HB2	TYR	X	147	36.356	50.691	52.817	0.00	0.00
ATOM	2273	HB3	TYR	X	147	35.989	51.698	51.399	0.00	0.00
ATOM	2274	CG	TYR	X	147	37.395	50.169	51.099	0.00	0.00
ATOM	2275	CD1	TYR	X	147	37.776	50.355	49.732	0.00	0.00
ATOM	2276	HD1	TYR	X	147	37.536	51.315	49.299	0.00	0.00
ATOM	2277	CE1	TYR	X	147	38.337	49.305	48.952	0.00	0.00
ATOM	2278	HE1	TYR	X	147	38.631	49.497	47.931	0.00	0.00
ATOM	2279	CZ	TYR	X	147	38.610	48.080	49.630	0.00	0.00

ATOM	2280	OH	TYR	X	147	39.265	47.142	48.924	0.00	0.00
ATOM	2281	HH	TYR	X	147	39.450	46.280	49.305	0.00	0.00
ATOM	2282	CE2	TYR	X	147	38.144	47.816	50.939	0.00	0.00
ATOM	2283	HE2	TYR	X	147	38.380	46.909	51.477	0.00	0.00
ATOM	2284	CD2	TYR	X	147	37.570	48.845	51.623	0.00	0.00
ATOM	2285	HD2	TYR	X	147	37.272	48.673	52.647	0.00	0.00
ATOM	2286	C	TYR	X	147	38.807	51.425	53.514	0.00	0.00
ATOM	2287	O	TYR	X	147	39.891	50.978	53.199	0.00	0.00
ATOM	2288	N	ARG	X	148	38.286	51.222	54.710	0.00	0.00
ATOM	2289	H	ARG	X	148	37.330	51.520	54.842	0.00	0.00
ATOM	2290	CA	ARG	X	148	38.970	50.430	55.811	0.00	0.00
ATOM	2291	HA	ARG	X	148	39.992	50.769	55.984	0.00	0.00
ATOM	2292	CB	ARG	X	148	38.188	50.634	57.100	0.00	0.00
ATOM	2293	HB2	ARG	X	148	37.145	50.319	57.059	0.00	0.00
ATOM	2294	HB3	ARG	X	148	38.644	49.984	57.847	0.00	0.00
ATOM	2295	CG	ARG	X	148	38.139	52.014	57.780	0.00	0.00
ATOM	2296	HG2	ARG	X	148	39.137	52.328	58.084	0.00	0.00
ATOM	2297	HG3	ARG	X	148	37.827	52.857	57.163	0.00	0.00
ATOM	2298	CD	ARG	X	148	37.201	51.905	58.947	0.00	0.00
ATOM	2299	HD2	ARG	X	148	37.311	51.027	59.582	0.00	0.00
ATOM	2300	HD3	ARG	X	148	37.398	52.805	59.529	0.00	0.00
ATOM	2301	NE	ARG	X	148	35.827	52.130	58.557	0.00	0.00
ATOM	2302	HE	ARG	X	148	35.654	52.206	57.565	0.00	0.00
ATOM	2303	CZ	ARG	X	148	34.764	52.351	59.349	0.00	0.00
ATOM	2304	NH1	ARG	X	148	34.909	52.226	60.593	0.00	0.00
ATOM	2305	HH11	ARG	X	148	35.863	52.120	60.909	0.00	0.00
ATOM	2306	HH12	ARG	X	148	34.125	52.357	61.215	0.00	0.00
ATOM	2307	NH2	ARG	X	148	33.579	52.681	58.908	0.00	0.00
ATOM	2308	HH21	ARG	X	148	33.494	52.933	57.934	0.00	0.00
ATOM	2309	HH22	ARG	X	148	32.886	52.944	59.594	0.00	0.00
ATOM	2310	C	ARG	X	148	39.070	48.860	55.467	0.00	0.00
ATOM	2311	O	ARG	X	148	38.199	48.074	55.872	0.00	0.00
ATOM	2312	N	VAL	X	149	40.208	48.535	54.885	0.00	0.00
ATOM	2313	H	VAL	X	149	40.695	49.174	54.273	0.00	0.00
ATOM	2314	CA	VAL	X	149	40.919	47.279	55.069	0.00	0.00
ATOM	2315	HA	VAL	X	149	40.355	46.432	54.678	0.00	0.00
ATOM	2316	CB	VAL	X	149	42.207	47.226	54.206	0.00	0.00
ATOM	2317	HB	VAL	X	149	42.655	46.240	54.330	0.00	0.00
ATOM	2318	CG1	VAL	X	149	41.830	47.236	52.711	0.00	0.00
ATOM	2319	HG11	VAL	X	149	41.263	46.308	52.638	0.00	0.00
ATOM	2320	HG12	VAL	X	149	41.205	48.094	52.461	0.00	0.00
ATOM	2321	HG13	VAL	X	149	42.708	47.266	52.067	0.00	0.00
ATOM	2322	CG2	VAL	X	149	43.302	48.280	54.499	0.00	0.00
ATOM	2323	HG21	VAL	X	149	43.360	48.446	55.574	0.00	0.00
ATOM	2324	HG22	VAL	X	149	44.246	47.814	54.218	0.00	0.00
ATOM	2325	HG23	VAL	X	149	43.219	49.240	53.989	0.00	0.00
ATOM	2326	C	VAL	X	149	41.298	46.941	56.550	0.00	0.00
ATOM	2327	O	VAL	X	149	41.331	47.785	57.471	0.00	0.00
ATOM	2328	N	GLY	X	150	41.663	45.696	56.759	0.00	0.00
ATOM	2329	H	GLY	X	150	41.570	45.119	55.935	0.00	0.00
ATOM	2330	CA	GLY	X	150	42.139	45.128	58.051	0.00	0.00
ATOM	2331	HA2	GLY	X	150	42.565	44.114	57.894	0.00	0.00
ATOM	2332	HA3	GLY	X	150	42.917	45.779	58.484	0.00	0.00
ATOM	2333	C	GLY	X	150	41.025	45.159	59.076	0.00	0.00
ATOM	2334	O	GLY	X	150	39.851	45.402	58.799	0.00	0.00
ATOM	2335	N	ALA	X	151	41.464	45.029	60.321	0.00	0.00
ATOM	2336	H	ALA	X	151	42.429	44.742	60.401	0.00	0.00
ATOM	2337	CA	ALA	X	151	40.618	45.055	61.477	0.00	0.00
ATOM	2338	HA	ALA	X	151	39.773	44.371	61.404	0.00	0.00
ATOM	2339	CB	ALA	X	151	41.433	44.609	62.680	0.00	0.00
ATOM	2340	HB1	ALA	X	151	42.354	45.190	62.645	0.00	0.00
ATOM	2341	HB2	ALA	X	151	40.856	44.791	63.587	0.00	0.00
ATOM	2342	HB3	ALA	X	151	41.664	43.545	62.648	0.00	0.00
ATOM	2343	C	ALA	X	151	40.056	46.429	61.755	0.00	0.00
ATOM	2344	O	ALA	X	151	39.205	46.544	62.619	0.00	0.00
ATOM	2345	N	PHE	X	152	40.531	47.450	60.983	0.00	0.00
ATOM	2346	H	PHE	X	152	41.195	47.233	60.253	0.00	0.00
ATOM	2347	CA	PHE	X	152	39.849	48.784	61.068	0.00	0.00
ATOM	2348	HA	PHE	X	152	39.659	49.055	62.106	0.00	0.00
ATOM	2349	CB	PHE	X	152	40.661	49.879	60.389	0.00	0.00

ATOM	2350	HB2	PHE	X	152	40.795	49.636	59.335	0.00	0.00
ATOM	2351	HB3	PHE	X	152	40.065	50.785	60.489	0.00	0.00
ATOM	2352	CG	PHE	X	152	42.063	49.996	60.951	0.00	0.00
ATOM	2353	CD1	PHE	X	152	43.159	49.291	60.390	0.00	0.00
ATOM	2354	HD1	PHE	X	152	43.058	48.617	59.552	0.00	0.00
ATOM	2355	CE1	PHE	X	152	44.463	49.372	61.006	0.00	0.00
ATOM	2356	HE1	PHE	X	152	45.242	48.763	60.571	0.00	0.00
ATOM	2357	CZ	PHE	X	152	44.671	50.152	62.126	0.00	0.00
ATOM	2358	HZ	PHE	X	152	45.636	50.058	62.601	0.00	0.00
ATOM	2359	CE2	PHE	X	152	43.665	50.996	62.625	0.00	0.00
ATOM	2360	HE2	PHE	X	152	43.863	51.614	63.488	0.00	0.00
ATOM	2361	CD2	PHE	X	152	42.345	50.870	62.083	0.00	0.00
ATOM	2362	HD2	PHE	X	152	41.552	51.468	62.507	0.00	0.00
ATOM	2363	C	PHE	X	152	38.403	48.703	60.574	0.00	0.00
ATOM	2364	O	PHE	X	152	37.558	49.381	61.187	0.00	0.00
ATOM	2365	N	GLY	X	153	38.067	47.928	59.577	0.00	0.00
ATOM	2366	H	GLY	X	153	38.717	47.249	59.205	0.00	0.00
ATOM	2367	CA	GLY	X	153	36.730	47.886	58.974	0.00	0.00
ATOM	2368	HA2	GLY	X	153	36.005	48.525	59.507	0.00	0.00
ATOM	2369	HA3	GLY	X	153	36.923	48.259	57.952	0.00	0.00
ATOM	2370	C	GLY	X	153	36.032	46.554	58.901	0.00	0.00
ATOM	2371	O	GLY	X	153	34.811	46.541	59.040	0.00	0.00
ATOM	2372	N	PHE	X	154	36.827	45.501	58.779	0.00	0.00
ATOM	2373	H	PHE	X	154	37.782	45.651	58.487	0.00	0.00
ATOM	2374	CA	PHE	X	154	36.236	44.207	58.558	0.00	0.00
ATOM	2375	HA	PHE	X	154	35.183	44.218	58.277	0.00	0.00
ATOM	2376	CB	PHE	X	154	37.074	43.640	57.359	0.00	0.00
ATOM	2377	HB2	PHE	X	154	38.087	43.412	57.690	0.00	0.00
ATOM	2378	HB3	PHE	X	154	36.655	42.656	57.149	0.00	0.00
ATOM	2379	CG	PHE	X	154	37.047	44.336	55.977	0.00	0.00
ATOM	2380	CD1	PHE	X	154	38.260	44.691	55.377	0.00	0.00
ATOM	2381	HD1	PHE	X	154	39.126	44.651	56.021	0.00	0.00
ATOM	2382	CE1	PHE	X	154	38.305	45.115	54.044	0.00	0.00
ATOM	2383	HE1	PHE	X	154	39.244	45.250	53.527	0.00	0.00
ATOM	2384	CZ	PHE	X	154	37.122	45.353	53.297	0.00	0.00
ATOM	2385	HZ	PHE	X	154	37.054	45.528	52.234	0.00	0.00
ATOM	2386	CE2	PHE	X	154	35.898	45.064	53.879	0.00	0.00
ATOM	2387	HE2	PHE	X	154	34.978	45.116	53.317	0.00	0.00
ATOM	2388	CD2	PHE	X	154	35.870	44.524	55.227	0.00	0.00
ATOM	2389	HD2	PHE	X	154	34.948	44.216	55.697	0.00	0.00
ATOM	2390	C	PHE	X	154	36.328	43.329	59.842	0.00	0.00
ATOM	2391	O	PHE	X	154	36.180	42.131	59.664	0.00	0.00
ATOM	2392	N	LEU	X	155	36.492	43.956	61.053	0.00	0.00
ATOM	2393	H	LEU	X	155	36.970	44.840	61.151	0.00	0.00
ATOM	2394	CA	LEU	X	155	36.225	43.282	62.365	0.00	0.00
ATOM	2395	HA	LEU	X	155	36.472	42.223	62.292	0.00	0.00
ATOM	2396	CB	LEU	X	155	37.214	43.890	63.404	0.00	0.00
ATOM	2397	HB2	LEU	X	155	38.209	43.795	62.968	0.00	0.00
ATOM	2398	HB3	LEU	X	155	37.104	44.945	63.655	0.00	0.00
ATOM	2399	CG	LEU	X	155	37.122	43.116	64.689	0.00	0.00
ATOM	2400	HG	LEU	X	155	36.987	42.044	64.549	0.00	0.00
ATOM	2401	CD1	LEU	X	155	38.397	43.229	65.418	0.00	0.00
ATOM	2402	HD11	LEU	X	155	39.201	42.920	64.751	0.00	0.00
ATOM	2403	HD12	LEU	X	155	38.582	44.273	65.674	0.00	0.00
ATOM	2404	HD13	LEU	X	155	38.407	42.581	66.294	0.00	0.00
ATOM	2405	CD2	LEU	X	155	36.131	43.635	65.747	0.00	0.00
ATOM	2406	HD21	LEU	X	155	36.338	44.617	66.172	0.00	0.00
ATOM	2407	HD22	LEU	X	155	35.112	43.644	65.359	0.00	0.00
ATOM	2408	HD23	LEU	X	155	36.085	42.904	66.554	0.00	0.00
ATOM	2409	C	LEU	X	155	34.743	43.413	62.629	0.00	0.00
ATOM	2410	O	LEU	X	155	34.096	44.394	62.367	0.00	0.00
ATOM	2411	N	ALA	X	156	34.172	42.367	63.207	0.00	0.00
ATOM	2412	H	ALA	X	156	34.807	41.593	63.338	0.00	0.00
ATOM	2413	CA	ALA	X	156	32.933	42.245	63.820	0.00	0.00
ATOM	2414	HA	ALA	X	156	32.560	43.218	64.141	0.00	0.00
ATOM	2415	CB	ALA	X	156	32.001	41.551	62.920	0.00	0.00
ATOM	2416	HB1	ALA	X	156	32.530	40.672	62.553	0.00	0.00
ATOM	2417	HB2	ALA	X	156	31.155	41.167	63.492	0.00	0.00
ATOM	2418	HB3	ALA	X	156	31.641	42.229	62.146	0.00	0.00
ATOM	2419	C	ALA	X	156	33.144	41.435	65.159	0.00	0.00

ATOM	2420	O	ALA	X	156	33.964	40.515	65.241	0.00	0.00
ATOM	2421	N	LEU	X	157	32.223	41.700	66.196	0.00	0.00
ATOM	2422	H	LEU	X	157	31.508	42.387	66.003	0.00	0.00
ATOM	2423	CA	LEU	X	157	32.243	41.060	67.475	0.00	0.00
ATOM	2424	HA	LEU	X	157	32.900	40.192	67.437	0.00	0.00
ATOM	2425	CB	LEU	X	157	32.912	41.950	68.561	0.00	0.00
ATOM	2426	HB2	LEU	X	157	33.906	42.266	68.247	0.00	0.00
ATOM	2427	HB3	LEU	X	157	32.218	42.750	68.816	0.00	0.00
ATOM	2428	CG	LEU	X	157	33.128	41.240	69.960	0.00	0.00
ATOM	2429	HG	LEU	X	157	32.159	40.850	70.271	0.00	0.00
ATOM	2430	CD1	LEU	X	157	33.965	39.957	69.897	0.00	0.00
ATOM	2431	HD11	LEU	X	157	33.775	39.358	70.787	0.00	0.00
ATOM	2432	HD12	LEU	X	157	33.829	39.315	69.026	0.00	0.00
ATOM	2433	HD13	LEU	X	157	35.029	40.160	69.775	0.00	0.00
ATOM	2434	CD2	LEU	X	157	33.721	42.119	71.088	0.00	0.00
ATOM	2435	HD21	LEU	X	157	32.869	42.707	71.431	0.00	0.00
ATOM	2436	HD22	LEU	X	157	34.052	41.412	71.848	0.00	0.00
ATOM	2437	HD23	LEU	X	157	34.495	42.811	70.757	0.00	0.00
ATOM	2438	C	LEU	X	157	30.790	40.539	67.811	0.00	0.00
ATOM	2439	O	LEU	X	157	30.141	41.134	68.638	0.00	0.00
ATOM	2440	N	PRO	X	158	30.302	39.430	67.265	0.00	0.00
ATOM	2441	CD	PRO	X	158	30.839	38.628	66.208	0.00	0.00
ATOM	2442	HD2	PRO	X	158	31.378	37.757	66.582	0.00	0.00
ATOM	2443	HD3	PRO	X	158	31.480	39.305	65.644	0.00	0.00
ATOM	2444	CG	PRO	X	158	29.669	38.146	65.437	0.00	0.00
ATOM	2445	HG2	PRO	X	158	30.059	37.283	64.898	0.00	0.00
ATOM	2446	HG3	PRO	X	158	29.191	38.915	64.830	0.00	0.00
ATOM	2447	CB	PRO	X	158	28.648	37.837	66.587	0.00	0.00
ATOM	2448	HB2	PRO	X	158	28.894	36.878	67.044	0.00	0.00
ATOM	2449	HB3	PRO	X	158	27.615	37.778	66.245	0.00	0.00
ATOM	2450	CA	PRO	X	158	28.925	38.926	67.654	0.00	0.00
ATOM	2451	HA	PRO	X	158	28.115	39.654	67.621	0.00	0.00
ATOM	2452	C	PRO	X	158	28.916	38.443	69.097	0.00	0.00
ATOM	2453	O	PRO	X	158	29.906	38.197	69.775	0.00	0.00
ATOM	2454	N	GLY	X	159	27.746	38.156	69.633	0.00	0.00
ATOM	2455	H	GLY	X	159	26.935	38.421	69.092	0.00	0.00
ATOM	2456	CA	GLY	X	159	27.598	37.702	71.067	0.00	0.00
ATOM	2457	HA2	GLY	X	159	26.676	37.088	71.102	0.00	0.00
ATOM	2458	HA3	GLY	X	159	28.432	37.114	71.506	0.00	0.00
ATOM	2459	C	GLY	X	159	27.259	38.796	72.005	0.00	0.00
ATOM	2460	O	GLY	X	159	27.155	38.522	73.215	0.00	0.00
ATOM	2461	N	SER	X	160	27.001	39.965	71.461	0.00	0.00
ATOM	2462	H	SER	X	160	27.009	40.036	70.454	0.00	0.00
ATOM	2463	CA	SER	X	160	26.873	41.262	72.065	0.00	0.00
ATOM	2464	HA	SER	X	160	26.044	41.134	72.761	0.00	0.00
ATOM	2465	CB	SER	X	160	28.109	41.679	72.841	0.00	0.00
ATOM	2466	HB2	SER	X	160	27.910	42.566	73.443	0.00	0.00
ATOM	2467	HB3	SER	X	160	28.297	40.966	73.644	0.00	0.00
ATOM	2468	OG	SER	X	160	29.219	41.893	71.967	0.00	0.00
ATOM	2469	HG	SER	X	160	29.915	41.259	72.155	0.00	0.00
ATOM	2470	C	SER	X	160	26.444	42.336	70.982	0.00	0.00
ATOM	2471	O	SER	X	160	26.697	42.144	69.807	0.00	0.00
ATOM	2472	N	ARG	X	161	26.045	43.521	71.405	0.00	0.00
ATOM	2473	H	ARG	X	161	26.216	43.695	72.385	0.00	0.00
ATOM	2474	CA	ARG	X	161	25.533	44.605	70.597	0.00	0.00
ATOM	2475	HA	ARG	X	161	25.425	44.258	69.569	0.00	0.00
ATOM	2476	CB	ARG	X	161	24.089	45.061	71.063	0.00	0.00
ATOM	2477	HB2	ARG	X	161	24.201	45.164	72.142	0.00	0.00
ATOM	2478	HB3	ARG	X	161	23.823	46.059	70.714	0.00	0.00
ATOM	2479	CG	ARG	X	161	22.937	44.117	70.949	0.00	0.00
ATOM	2480	HG2	ARG	X	161	22.995	43.522	70.038	0.00	0.00
ATOM	2481	HG3	ARG	X	161	23.045	43.375	71.740	0.00	0.00
ATOM	2482	CD	ARG	X	161	21.519	44.732	70.936	0.00	0.00
ATOM	2483	HD2	ARG	X	161	21.486	45.517	71.691	0.00	0.00
ATOM	2484	HD3	ARG	X	161	21.199	45.078	69.953	0.00	0.00
ATOM	2485	NE	ARG	X	161	20.546	43.676	71.329	0.00	0.00
ATOM	2486	HE	ARG	X	161	20.928	42.756	71.165	0.00	0.00
ATOM	2487	CZ	ARG	X	161	19.396	43.700	72.018	0.00	0.00
ATOM	2488	NH1	ARG	X	161	18.836	44.745	72.509	0.00	0.00
ATOM	2489	HH11	ARG	X	161	19.133	45.685	72.287	0.00	0.00

ATOM	2490	HH12	ARG	X	161	17.930	44.503	72.885	0.00	0.00
ATOM	2491	NH2	ARG	X	161	18.677	42.654	72.225	0.00	0.00
ATOM	2492	HH21	ARG	X	161	19.020	41.719	72.061	0.00	0.00
ATOM	2493	HH22	ARG	X	161	17.791	42.650	72.710	0.00	0.00
ATOM	2494	C	ARG	X	161	26.464	45.800	70.427	0.00	0.00
ATOM	2495	O	ARG	X	161	26.094	46.851	69.874	0.00	0.00
ATOM	2496	N	GLU	X	162	27.714	45.621	70.867	0.00	0.00
ATOM	2497	H	GLU	X	162	27.886	44.681	71.195	0.00	0.00
ATOM	2498	CA	GLU	X	162	28.719	46.660	71.078	0.00	0.00
ATOM	2499	HA	GLU	X	162	28.264	47.538	71.538	0.00	0.00
ATOM	2500	CB	GLU	X	162	29.840	46.185	72.057	0.00	0.00
ATOM	2501	HB2	GLU	X	162	30.344	45.315	71.636	0.00	0.00
ATOM	2502	HB3	GLU	X	162	30.528	47.028	72.127	0.00	0.00
ATOM	2503	CG	GLU	X	162	29.239	45.854	73.431	0.00	0.00
ATOM	2504	HG2	GLU	X	162	28.881	44.825	73.456	0.00	0.00
ATOM	2505	HG3	GLU	X	162	30.140	45.896	74.042	0.00	0.00
ATOM	2506	CD	GLU	X	162	28.318	46.926	74.023	0.00	0.00
ATOM	2507	OE1	GLU	X	162	28.825	47.702	74.844	0.00	0.00
ATOM	2508	OE2	GLU	X	162	27.081	46.882	73.832	0.00	0.00
ATOM	2509	C	GLU	X	162	29.341	47.172	69.738	0.00	0.00
ATOM	2510	O	GLU	X	162	29.635	48.390	69.657	0.00	0.00
ATOM	2511	N	ALA	X	163	29.391	46.320	68.736	0.00	0.00
ATOM	2512	H	ALA	X	163	29.061	45.384	68.922	0.00	0.00
ATOM	2513	CA	ALA	X	163	29.821	46.753	67.318	0.00	0.00
ATOM	2514	HA	ALA	X	163	29.721	47.832	67.197	0.00	0.00
ATOM	2515	CB	ALA	X	163	31.306	46.373	67.166	0.00	0.00
ATOM	2516	HB1	ALA	X	163	31.443	45.293	67.114	0.00	0.00
ATOM	2517	HB2	ALA	X	163	31.660	46.709	66.192	0.00	0.00
ATOM	2518	HB3	ALA	X	163	31.831	46.774	68.033	0.00	0.00
ATOM	2519	C	ALA	X	163	28.907	46.090	66.282	0.00	0.00
ATOM	2520	O	ALA	X	163	28.701	44.899	66.410	0.00	0.00
ATOM	2521	N	PRO	X	164	28.487	46.790	65.245	0.00	0.00
ATOM	2522	CD	PRO	X	164	28.699	48.232	64.995	0.00	0.00
ATOM	2523	HD2	PRO	X	164	29.761	48.470	64.938	0.00	0.00
ATOM	2524	HD3	PRO	X	164	28.175	48.781	65.777	0.00	0.00
ATOM	2525	CG	PRO	X	164	27.958	48.601	63.713	0.00	0.00
ATOM	2526	HG2	PRO	X	164	28.703	48.928	62.989	0.00	0.00
ATOM	2527	HG3	PRO	X	164	27.374	49.501	63.910	0.00	0.00
ATOM	2528	CB	PRO	X	164	27.163	47.325	63.377	0.00	0.00
ATOM	2529	HB2	PRO	X	164	27.130	47.221	62.292	0.00	0.00
ATOM	2530	HB3	PRO	X	164	26.140	47.400	63.745	0.00	0.00
ATOM	2531	CA	PRO	X	164	27.911	46.196	64.081	0.00	0.00
ATOM	2532	HA	PRO	X	164	27.171	45.477	64.431	0.00	0.00
ATOM	2533	C	PRO	X	164	28.893	45.454	63.199	0.00	0.00
ATOM	2534	O	PRO	X	164	28.664	44.321	62.851	0.00	0.00
ATOM	2535	N	GLY	X	165	30.018	46.061	62.876	0.00	0.00
ATOM	2536	H	GLY	X	165	30.309	46.909	63.342	0.00	0.00
ATOM	2537	CA	GLY	X	165	31.135	45.439	62.207	0.00	0.00
ATOM	2538	HA2	GLY	X	165	32.057	45.859	62.336	0.00	0.00
ATOM	2539	HA3	GLY	X	165	31.352	44.428	62.562	0.00	0.00
ATOM	2540	C	GLY	X	165	30.987	45.413	60.721	0.00	0.00
ATOM	2541	O	GLY	X	165	30.068	46.038	60.146	0.00	0.00
ATOM	2542	N	ASN	X	166	31.965	44.804	59.995	0.00	0.00
ATOM	2543	H	ASN	X	166	32.735	44.339	60.453	0.00	0.00
ATOM	2544	CA	ASN	X	166	31.967	44.682	58.583	0.00	0.00
ATOM	2545	HA	ASN	X	166	32.926	44.212	58.365	0.00	0.00
ATOM	2546	CB	ASN	X	166	30.821	43.705	58.154	0.00	0.00
ATOM	2547	HB2	ASN	X	166	30.726	42.914	58.897	0.00	0.00
ATOM	2548	HB3	ASN	X	166	29.887	44.265	58.191	0.00	0.00
ATOM	2549	CG	ASN	X	166	31.104	43.183	56.760	0.00	0.00
ATOM	2550	OD1	ASN	X	166	32.234	42.807	56.412	0.00	0.00
ATOM	2551	ND2	ASN	X	166	30.085	43.072	55.911	0.00	0.00
ATOM	2552	HD21	ASN	X	166	30.269	42.806	54.954	0.00	0.00
ATOM	2553	HD22	ASN	X	166	29.187	43.359	56.272	0.00	0.00
ATOM	2554	C	ASN	X	166	31.878	45.987	57.778	0.00	0.00
ATOM	2555	O	ASN	X	166	31.748	45.933	56.526	0.00	0.00
ATOM	2556	N	VAL	X	167	31.898	47.134	58.420	0.00	0.00
ATOM	2557	H	VAL	X	167	31.758	47.185	59.419	0.00	0.00
ATOM	2558	CA	VAL	X	167	31.685	48.474	57.804	0.00	0.00
ATOM	2559	HA	VAL	X	167	30.785	48.518	57.191	0.00	0.00

ATOM	2560	CB	VAL	X	167	31.670	49.568	58.935	0.00	0.00
ATOM	2561	HB	VAL	X	167	31.542	50.553	58.487	0.00	0.00
ATOM	2562	CG1	VAL	X	167	30.424	49.395	59.832	0.00	0.00
ATOM	2563	HG11	VAL	X	167	30.327	48.361	60.162	0.00	0.00
ATOM	2564	HG12	VAL	X	167	30.431	49.852	60.822	0.00	0.00
ATOM	2565	HG13	VAL	X	167	29.538	49.552	59.217	0.00	0.00
ATOM	2566	CG2	VAL	X	167	32.909	49.564	59.807	0.00	0.00
ATOM	2567	HG21	VAL	X	167	32.873	50.510	60.348	0.00	0.00
ATOM	2568	HG22	VAL	X	167	32.743	48.774	60.540	0.00	0.00
ATOM	2569	HG23	VAL	X	167	33.789	49.265	59.237	0.00	0.00
ATOM	2570	C	VAL	X	167	32.719	48.883	56.714	0.00	0.00
ATOM	2571	O	VAL	X	167	32.437	49.923	56.056	0.00	0.00
ATOM	2572	N	GLY	X	168	33.750	48.087	56.444	0.00	0.00
ATOM	2573	H	GLY	X	168	33.897	47.265	57.012	0.00	0.00
ATOM	2574	CA	GLY	X	168	34.718	48.286	55.361	0.00	0.00
ATOM	2575	HA2	GLY	X	168	35.115	49.303	55.462	0.00	0.00
ATOM	2576	HA3	GLY	X	168	35.509	47.563	55.461	0.00	0.00
ATOM	2577	C	GLY	X	168	34.114	48.121	53.991	0.00	0.00
ATOM	2578	O	GLY	X	168	34.544	48.705	52.996	0.00	0.00
ATOM	2579	N	LEU	X	169	33.008	47.354	53.876	0.00	0.00
ATOM	2580	H	LEU	X	169	32.753	46.795	54.677	0.00	0.00
ATOM	2581	CA	LEU	X	169	32.138	47.339	52.645	0.00	0.00
ATOM	2582	HA	LEU	X	169	32.773	47.328	51.760	0.00	0.00
ATOM	2583	CB	LEU	X	169	31.313	46.044	52.553	0.00	0.00
ATOM	2584	HB2	LEU	X	169	30.698	46.027	53.453	0.00	0.00
ATOM	2585	HB3	LEU	X	169	30.696	46.122	51.658	0.00	0.00
ATOM	2586	CG	LEU	X	169	32.074	44.766	52.387	0.00	0.00
ATOM	2587	HG	LEU	X	169	32.863	44.739	53.139	0.00	0.00
ATOM	2588	CD1	LEU	X	169	31.012	43.637	52.570	0.00	0.00
ATOM	2589	HD11	LEU	X	169	31.583	42.719	52.427	0.00	0.00
ATOM	2590	HD12	LEU	X	169	30.541	43.653	53.553	0.00	0.00
ATOM	2591	HD13	LEU	X	169	30.221	43.574	51.822	0.00	0.00
ATOM	2592	CD2	LEU	X	169	32.672	44.597	51.004	0.00	0.00
ATOM	2593	HD21	LEU	X	169	33.285	43.695	50.987	0.00	0.00
ATOM	2594	HD22	LEU	X	169	31.920	44.576	50.216	0.00	0.00
ATOM	2595	HD23	LEU	X	169	33.206	45.540	50.882	0.00	0.00
ATOM	2596	C	LEU	X	169	31.175	48.560	52.589	0.00	0.00
ATOM	2597	O	LEU	X	169	30.797	48.966	51.567	0.00	0.00
ATOM	2598	N	LEU	X	170	30.768	49.086	53.765	0.00	0.00
ATOM	2599	H	LEU	X	170	31.050	48.578	54.591	0.00	0.00
ATOM	2600	CA	LEU	X	170	29.914	50.287	53.892	0.00	0.00
ATOM	2601	HA	LEU	X	170	29.073	50.237	53.199	0.00	0.00
ATOM	2602	CB	LEU	X	170	29.333	50.543	55.318	0.00	0.00
ATOM	2603	HB2	LEU	X	170	28.781	49.649	55.608	0.00	0.00
ATOM	2604	HB3	LEU	X	170	30.115	50.619	56.073	0.00	0.00
ATOM	2605	CG	LEU	X	170	28.353	51.739	55.544	0.00	0.00
ATOM	2606	HG	LEU	X	170	28.951	52.647	55.459	0.00	0.00
ATOM	2607	CD1	LEU	X	170	27.204	51.718	54.457	0.00	0.00
ATOM	2608	HD11	LEU	X	170	26.721	50.769	54.224	0.00	0.00
ATOM	2609	HD12	LEU	X	170	26.359	52.351	54.730	0.00	0.00
ATOM	2610	HD13	LEU	X	170	27.559	52.162	53.528	0.00	0.00
ATOM	2611	CD2	LEU	X	170	27.660	51.598	56.940	0.00	0.00
ATOM	2612	HD21	LEU	X	170	27.032	50.711	56.858	0.00	0.00
ATOM	2613	HD22	LEU	X	170	28.430	51.523	57.709	0.00	0.00
ATOM	2614	HD23	LEU	X	170	26.917	52.378	57.104	0.00	0.00
ATOM	2615	C	LEU	X	170	30.665	51.609	53.440	0.00	0.00
ATOM	2616	O	LEU	X	170	30.077	52.425	52.731	0.00	0.00
ATOM	2617	N	ASP	X	171	31.964	51.721	53.690	0.00	0.00
ATOM	2618	H	ASP	X	171	32.367	51.016	54.292	0.00	0.00
ATOM	2619	CA	ASP	X	171	32.715	52.857	53.236	0.00	0.00
ATOM	2620	HA	ASP	X	171	32.275	53.757	53.664	0.00	0.00
ATOM	2621	CB	ASP	X	171	34.175	52.561	53.718	0.00	0.00
ATOM	2622	HB2	ASP	X	171	34.517	51.623	53.279	0.00	0.00
ATOM	2623	HB3	ASP	X	171	34.813	53.305	53.242	0.00	0.00
ATOM	2624	CG	ASP	X	171	34.587	52.565	55.251	0.00	0.00
ATOM	2625	OD1	ASP	X	171	33.739	52.825	56.156	0.00	0.00
ATOM	2626	OD2	ASP	X	171	35.760	52.266	55.486	0.00	0.00
ATOM	2627	C	ASP	X	171	32.709	52.978	51.762	0.00	0.00
ATOM	2628	O	ASP	X	171	32.672	54.041	51.210	0.00	0.00
ATOM	2629	N	GLN	X	172	32.808	51.826	51.070	0.00	0.00

ATOM	2630	H	GLN	X	172	32.927	50.991	51.626	0.00	0.00
ATOM	2631	CA	GLN	X	172	32.682	51.680	49.617	0.00	0.00
ATOM	2632	HA	GLN	X	172	33.399	52.311	49.093	0.00	0.00
ATOM	2633	CB	GLN	X	172	32.957	50.387	49.078	0.00	0.00
ATOM	2634	HB2	GLN	X	172	32.251	49.721	49.573	0.00	0.00
ATOM	2635	HB3	GLN	X	172	32.706	50.347	48.018	0.00	0.00
ATOM	2636	CG	GLN	X	172	34.341	49.818	49.390	0.00	0.00
ATOM	2637	HG2	GLN	X	172	35.106	50.428	48.910	0.00	0.00
ATOM	2638	HG3	GLN	X	172	34.506	49.788	50.467	0.00	0.00
ATOM	2639	CD	GLN	X	172	34.467	48.346	48.956	0.00	0.00
ATOM	2640	OE1	GLN	X	172	33.567	47.706	48.449	0.00	0.00
ATOM	2641	NE2	GLN	X	172	35.526	47.573	49.247	0.00	0.00
ATOM	2642	HE21	GLN	X	172	35.493	46.581	49.060	0.00	0.00
ATOM	2643	HE22	GLN	X	172	36.301	47.978	49.753	0.00	0.00
ATOM	2644	C	GLN	X	172	31.287	52.120	49.121	0.00	0.00
ATOM	2645	O	GLN	X	172	31.178	52.934	48.241	0.00	0.00
ATOM	2646	N	ARG	X	173	30.196	51.617	49.702	0.00	0.00
ATOM	2647	H	ARG	X	173	30.341	50.903	50.400	0.00	0.00
ATOM	2648	CA	ARG	X	173	28.730	52.099	49.514	0.00	0.00
ATOM	2649	HA	ARG	X	173	28.444	51.955	48.472	0.00	0.00
ATOM	2650	CB	ARG	X	173	27.805	51.274	50.483	0.00	0.00
ATOM	2651	HB2	ARG	X	173	27.951	50.240	50.171	0.00	0.00
ATOM	2652	HB3	ARG	X	173	28.074	51.293	51.539	0.00	0.00
ATOM	2653	CG	ARG	X	173	26.346	51.703	50.445	0.00	0.00
ATOM	2654	HG2	ARG	X	173	26.290	52.751	50.742	0.00	0.00
ATOM	2655	HG3	ARG	X	173	25.955	51.498	49.449	0.00	0.00
ATOM	2656	CD	ARG	X	173	25.364	51.059	51.393	0.00	0.00
ATOM	2657	HD2	ARG	X	173	25.680	51.288	52.410	0.00	0.00
ATOM	2658	HD3	ARG	X	173	24.371	51.451	51.173	0.00	0.00
ATOM	2659	NE	ARG	X	173	25.435	49.582	51.255	0.00	0.00
ATOM	2660	HE	ARG	X	173	25.576	49.220	50.323	0.00	0.00
ATOM	2661	CZ	ARG	X	173	25.091	48.682	52.155	0.00	0.00
ATOM	2662	NH1	ARG	X	173	24.611	49.204	53.287	0.00	0.00
ATOM	2663	HH11	ARG	X	173	24.294	50.160	53.211	0.00	0.00
ATOM	2664	HH12	ARG	X	173	24.254	48.587	54.002	0.00	0.00
ATOM	2665	NH2	ARG	X	173	25.202	47.388	51.956	0.00	0.00
ATOM	2666	HH21	ARG	X	173	25.461	46.994	51.063	0.00	0.00
ATOM	2667	HH22	ARG	X	173	25.172	46.825	52.794	0.00	0.00
ATOM	2668	C	ARG	X	173	28.580	53.591	49.786	0.00	0.00
ATOM	2669	O	ARG	X	173	27.655	54.181	49.243	0.00	0.00
ATOM	2670	N	LEU	X	174	29.405	54.210	50.665	0.00	0.00
ATOM	2671	H	LEU	X	174	30.058	53.726	51.266	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.249	55.582	50.959	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.175	55.763	51.003	0.00	0.00
ATOM	2674	CB	LEU	X	174	29.783	55.819	52.437	0.00	0.00
ATOM	2675	HB2	LEU	X	174	29.127	55.282	53.122	0.00	0.00
ATOM	2676	HB3	LEU	X	174	30.828	55.510	52.450	0.00	0.00
ATOM	2677	CG	LEU	X	174	29.689	57.244	52.858	0.00	0.00
ATOM	2678	HG	LEU	X	174	30.073	57.838	52.028	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.231	57.618	53.053	0.00	0.00
ATOM	2680	HD11	LEU	X	174	27.660	57.483	52.135	0.00	0.00
ATOM	2681	HD12	LEU	X	174	27.742	57.092	53.873	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.268	58.695	53.216	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.558	57.530	54.128	0.00	0.00
ATOM	2684	HD21	LEU	X	174	30.018	57.187	55.010	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.621	57.289	54.135	0.00	0.00
ATOM	2686	HD23	LEU	X	174	30.444	58.610	54.221	0.00	0.00
ATOM	2687	C	LEU	X	174	29.935	56.482	49.882	0.00	0.00
ATOM	2688	O	LEU	X	174	29.350	57.384	49.367	0.00	0.00
ATOM	2689	N	ALA	X	175	31.061	56.002	49.329	0.00	0.00
ATOM	2690	H	ALA	X	175	31.488	55.223	49.810	0.00	0.00
ATOM	2691	CA	ALA	X	175	31.689	56.498	48.046	0.00	0.00
ATOM	2692	HA	ALA	X	175	31.889	57.570	48.056	0.00	0.00
ATOM	2693	CB	ALA	X	175	33.019	55.800	47.828	0.00	0.00
ATOM	2694	HB1	ALA	X	175	33.690	56.068	48.644	0.00	0.00
ATOM	2695	HB2	ALA	X	175	32.681	54.790	47.595	0.00	0.00
ATOM	2696	HB3	ALA	X	175	33.466	56.245	46.939	0.00	0.00
ATOM	2697	C	ALA	X	175	30.718	56.381	46.833	0.00	0.00
ATOM	2698	O	ALA	X	175	30.727	57.318	46.092	0.00	0.00
ATOM	2699	N	LEU	X	176	29.955	55.303	46.775	0.00	0.00

ATOM	2700	H	LEU	X	176	30.011	54.641	47.536	0.00	0.00
ATOM	2701	CA	LEU	X	176	29.012	55.091	45.697	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.558	55.397	44.804	0.00	0.00
ATOM	2703	CB	LEU	X	176	28.554	53.600	45.528	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.169	53.194	46.463	0.00	0.00
ATOM	2705	HB3	LEU	X	176	27.869	53.518	44.684	0.00	0.00
ATOM	2706	CG	LEU	X	176	29.712	52.716	45.132	0.00	0.00
ATOM	2707	HG	LEU	X	176	30.597	53.020	45.691	0.00	0.00
ATOM	2708	CD1	LEU	X	176	29.407	51.254	45.547	0.00	0.00
ATOM	2709	HD11	LEU	X	176	29.330	51.182	46.632	0.00	0.00
ATOM	2710	HD12	LEU	X	176	28.519	50.791	45.118	0.00	0.00
ATOM	2711	HD13	LEU	X	176	30.129	50.493	45.247	0.00	0.00
ATOM	2712	CD2	LEU	X	176	30.026	52.742	43.656	0.00	0.00
ATOM	2713	HD21	LEU	X	176	29.131	52.412	43.128	0.00	0.00
ATOM	2714	HD22	LEU	X	176	30.359	53.690	43.232	0.00	0.00
ATOM	2715	HD23	LEU	X	176	30.870	52.091	43.428	0.00	0.00
ATOM	2716	C	LEU	X	176	27.823	56.065	45.808	0.00	0.00
ATOM	2717	O	LEU	X	176	27.241	56.392	44.774	0.00	0.00
ATOM	2718	N	GLN	X	177	27.542	56.647	47.016	0.00	0.00
ATOM	2719	H	GLN	X	177	28.120	56.338	47.785	0.00	0.00
ATOM	2720	CA	GLN	X	177	26.595	57.814	47.058	0.00	0.00
ATOM	2721	HA	GLN	X	177	25.656	57.593	46.549	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.108	57.928	48.604	0.00	0.00
ATOM	2723	HB2	GLN	X	177	27.003	57.850	49.221	0.00	0.00
ATOM	2724	HB3	GLN	X	177	25.687	58.921	48.764	0.00	0.00
ATOM	2725	CG	GLN	X	177	25.115	56.888	48.948	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.124	57.231	48.649	0.00	0.00
ATOM	2727	HG3	GLN	X	177	25.284	55.978	48.373	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.058	56.533	50.458	0.00	0.00
ATOM	2729	OE1	GLN	X	177	24.574	57.436	51.181	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.456	55.377	50.881	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.192	55.144	51.828	0.00	0.00
ATOM	2732	HE22	GLN	X	177	25.923	54.792	50.203	0.00	0.00
ATOM	2733	C	GLN	X	177	27.291	59.133	46.547	0.00	0.00
ATOM	2734	O	GLN	X	177	26.632	59.791	45.700	0.00	0.00
ATOM	2735	N	TRP	X	178	28.523	59.476	46.867	0.00	0.00
ATOM	2736	H	TRP	X	178	29.012	58.918	47.552	0.00	0.00
ATOM	2737	CA	TRP	X	178	29.245	60.568	46.294	0.00	0.00
ATOM	2738	HA	TRP	X	178	28.668	61.470	46.498	0.00	0.00
ATOM	2739	CB	TRP	X	178	30.656	60.624	46.957	0.00	0.00
ATOM	2740	HB2	TRP	X	178	30.505	60.414	48.016	0.00	0.00
ATOM	2741	HB3	TRP	X	178	31.365	59.868	46.619	0.00	0.00
ATOM	2742	CG	TRP	X	178	31.293	61.939	46.869	0.00	0.00
ATOM	2743	CD1	TRP	X	178	31.239	62.914	47.817	0.00	0.00
ATOM	2744	HD1	TRP	X	178	30.714	62.663	48.726	0.00	0.00
ATOM	2745	NE1	TRP	X	178	31.857	64.058	47.406	0.00	0.00
ATOM	2746	HE1	TRP	X	178	31.893	64.863	48.014	0.00	0.00
ATOM	2747	CE2	TRP	X	178	32.608	63.806	46.271	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	33.467	64.525	45.410	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	33.718	65.531	45.711	0.00	0.00
ATOM	2750	CH2	TRP	X	178	33.944	64.000	44.153	0.00	0.00
ATOM	2751	HH2	TRP	X	178	34.718	64.482	43.575	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	33.470	62.710	43.746	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	33.801	62.276	42.815	0.00	0.00
ATOM	2754	CE3	TRP	X	178	32.506	62.058	44.594	0.00	0.00
ATOM	2755	HE3	TRP	X	178	31.898	61.229	44.263	0.00	0.00
ATOM	2756	CD2	TRP	X	178	32.096	62.568	45.841	0.00	0.00
ATOM	2757	C	TRP	X	178	29.375	60.439	44.741	0.00	0.00
ATOM	2758	O	TRP	X	178	29.115	61.398	44.018	0.00	0.00
ATOM	2759	N	VAL	X	179	29.709	59.181	44.269	0.00	0.00
ATOM	2760	H	VAL	X	179	29.962	58.469	44.940	0.00	0.00
ATOM	2761	CA	VAL	X	179	29.779	58.917	42.751	0.00	0.00
ATOM	2762	HA	VAL	X	179	30.552	59.494	42.244	0.00	0.00
ATOM	2763	CB	VAL	X	179	30.178	57.449	42.486	0.00	0.00
ATOM	2764	HB	VAL	X	179	29.699	56.687	43.101	0.00	0.00
ATOM	2765	CG1	VAL	X	179	30.007	57.070	41.033	0.00	0.00
ATOM	2766	HG11	VAL	X	179	30.588	56.165	40.854	0.00	0.00
ATOM	2767	HG12	VAL	X	179	28.996	56.692	40.883	0.00	0.00
ATOM	2768	HG13	VAL	X	179	30.287	57.856	40.332	0.00	0.00
ATOM	2769	CG2	VAL	X	179	31.681	57.353	42.926	0.00	0.00

ATOM	2770	HG21	VAL	X	179	31.924	56.292	42.867	0.00	0.00
ATOM	2771	HG22	VAL	X	179	32.370	57.974	42.352	0.00	0.00
ATOM	2772	HG23	VAL	X	179	31.879	57.683	43.945	0.00	0.00
ATOM	2773	C	VAL	X	179	28.466	59.228	42.075	0.00	0.00
ATOM	2774	O	VAL	X	179	28.481	59.847	41.017	0.00	0.00
ATOM	2775	N	GLN	X	180	27.293	58.863	42.613	0.00	0.00
ATOM	2776	H	GLN	X	180	27.336	58.303	43.452	0.00	0.00
ATOM	2777	CA	GLN	X	180	25.942	59.444	42.160	0.00	0.00
ATOM	2778	HA	GLN	X	180	25.745	59.224	41.111	0.00	0.00
ATOM	2779	CB	GLN	X	180	24.887	58.826	43.057	0.00	0.00
ATOM	2780	HB2	GLN	X	180	25.177	58.855	44.108	0.00	0.00
ATOM	2781	HB3	GLN	X	180	23.984	59.377	42.792	0.00	0.00
ATOM	2782	CG	GLN	X	180	24.609	57.412	42.593	0.00	0.00
ATOM	2783	HG2	GLN	X	180	25.466	56.746	42.697	0.00	0.00
ATOM	2784	HG3	GLN	X	180	23.865	57.044	43.300	0.00	0.00
ATOM	2785	CD	GLN	X	180	24.077	57.307	41.181	0.00	0.00
ATOM	2786	OE1	GLN	X	180	23.308	58.153	40.683	0.00	0.00
ATOM	2787	NE2	GLN	X	180	24.599	56.369	40.429	0.00	0.00
ATOM	2788	HE21	GLN	X	180	24.174	56.313	39.515	0.00	0.00
ATOM	2789	HE22	GLN	X	180	25.098	55.633	40.909	0.00	0.00
ATOM	2790	C	GLN	X	180	25.792	61.012	42.180	0.00	0.00
ATOM	2791	O	GLN	X	180	25.306	61.551	41.220	0.00	0.00
ATOM	2792	N	GLU	X	181	26.161	61.627	43.324	0.00	0.00
ATOM	2793	H	GLU	X	181	26.603	61.033	44.012	0.00	0.00
ATOM	2794	CA	GLU	X	181	25.860	63.050	43.524	0.00	0.00
ATOM	2795	HA	GLU	X	181	24.843	63.076	43.134	0.00	0.00
ATOM	2796	CB	GLU	X	181	25.792	63.235	45.034	0.00	0.00
ATOM	2797	HB2	GLU	X	181	25.025	62.574	45.440	0.00	0.00
ATOM	2798	HB3	GLU	X	181	26.728	62.967	45.524	0.00	0.00
ATOM	2799	CG	GLU	X	181	25.476	64.624	45.621	0.00	0.00
ATOM	2800	HG2	GLU	X	181	26.098	65.399	45.172	0.00	0.00
ATOM	2801	HG3	GLU	X	181	24.447	64.838	45.333	0.00	0.00
ATOM	2802	CD	GLU	X	181	25.648	64.694	47.116	0.00	0.00
ATOM	2803	OE1	GLU	X	181	24.598	64.849	47.745	0.00	0.00
ATOM	2804	OE2	GLU	X	181	26.781	64.508	47.596	0.00	0.00
ATOM	2805	C	GLU	X	181	26.907	63.933	42.773	0.00	0.00
ATOM	2806	O	GLU	X	181	26.581	65.093	42.638	0.00	0.00
ATOM	2807	N	ASN	X	182	28.131	63.448	42.329	0.00	0.00
ATOM	2808	H	ASN	X	182	28.325	62.474	42.509	0.00	0.00
ATOM	2809	CA	ASN	X	182	29.252	64.352	41.965	0.00	0.00
ATOM	2810	HA	ASN	X	182	28.826	65.296	41.625	0.00	0.00
ATOM	2811	CB	ASN	X	182	30.154	64.605	43.176	0.00	0.00
ATOM	2812	HB2	ASN	X	182	30.642	63.694	43.524	0.00	0.00
ATOM	2813	HB3	ASN	X	182	30.881	65.315	42.782	0.00	0.00
ATOM	2814	CG	ASN	X	182	29.424	65.396	44.338	0.00	0.00
ATOM	2815	OD1	ASN	X	182	29.031	66.494	44.199	0.00	0.00
ATOM	2816	ND2	ASN	X	182	29.182	64.696	45.436	0.00	0.00
ATOM	2817	HD21	ASN	X	182	28.627	65.177	46.130	0.00	0.00
ATOM	2818	HD22	ASN	X	182	29.477	63.739	45.562	0.00	0.00
ATOM	2819	C	ASN	X	182	30.143	63.874	40.834	0.00	0.00
ATOM	2820	O	ASN	X	182	31.074	64.656	40.481	0.00	0.00
ATOM	2821	N	VAL	X	183	30.020	62.686	40.284	0.00	0.00
ATOM	2822	H	VAL	X	183	29.184	62.177	40.531	0.00	0.00
ATOM	2823	CA	VAL	X	183	30.920	62.410	39.095	0.00	0.00
ATOM	2824	HA	VAL	X	183	31.916	62.666	39.454	0.00	0.00
ATOM	2825	CB	VAL	X	183	31.032	60.918	38.781	0.00	0.00
ATOM	2826	HB	VAL	X	183	31.176	60.383	39.719	0.00	0.00
ATOM	2827	CG1	VAL	X	183	29.657	60.406	38.229	0.00	0.00
ATOM	2828	HG11	VAL	X	183	29.492	59.353	38.459	0.00	0.00
ATOM	2829	HG12	VAL	X	183	28.782	60.963	38.564	0.00	0.00
ATOM	2830	HG13	VAL	X	183	29.627	60.469	37.142	0.00	0.00
ATOM	2831	CG2	VAL	X	183	32.121	60.433	37.853	0.00	0.00
ATOM	2832	HG21	VAL	X	183	32.029	61.004	36.929	0.00	0.00
ATOM	2833	HG22	VAL	X	183	33.035	60.666	38.399	0.00	0.00
ATOM	2834	HG23	VAL	X	183	31.936	59.361	37.798	0.00	0.00
ATOM	2835	C	VAL	X	183	30.641	63.217	37.728	0.00	0.00
ATOM	2836	O	VAL	X	183	31.510	63.381	36.897	0.00	0.00
ATOM	2837	N	ALA	X	184	29.462	63.796	37.630	0.00	0.00
ATOM	2838	H	ALA	X	184	28.776	63.585	38.341	0.00	0.00
ATOM	2839	CA	ALA	X	184	29.014	64.582	36.517	0.00	0.00

ATOM	2840	HA	ALA	X	184	29.196	64.069	35.573	0.00	0.00
ATOM	2841	CB	ALA	X	184	27.514	64.886	36.573	0.00	0.00
ATOM	2842	HB1	ALA	X	184	27.212	65.304	37.533	0.00	0.00
ATOM	2843	HB2	ALA	X	184	27.120	65.575	35.826	0.00	0.00
ATOM	2844	HB3	ALA	X	184	26.992	63.930	36.567	0.00	0.00
ATOM	2845	C	ALA	X	184	29.834	65.885	36.433	0.00	0.00
ATOM	2846	O	ALA	X	184	30.045	66.433	35.342	0.00	0.00
ATOM	2847	N	ALA	X	185	30.472	66.305	37.567	0.00	0.00
ATOM	2848	H	ALA	X	185	30.535	65.593	38.280	0.00	0.00
ATOM	2849	CA	ALA	X	185	31.468	67.389	37.570	0.00	0.00
ATOM	2850	HA	ALA	X	185	30.984	68.344	37.369	0.00	0.00
ATOM	2851	CB	ALA	X	185	31.996	67.494	38.945	0.00	0.00
ATOM	2852	HB1	ALA	X	185	31.193	67.813	39.609	0.00	0.00
ATOM	2853	HB2	ALA	X	185	32.557	66.632	39.304	0.00	0.00
ATOM	2854	HB3	ALA	X	185	32.689	68.330	39.039	0.00	0.00
ATOM	2855	C	ALA	X	185	32.683	67.143	36.658	0.00	0.00
ATOM	2856	O	ALA	X	185	33.289	68.045	36.029	0.00	0.00
ATOM	2857	N	PHE	X	186	33.056	65.853	36.528	0.00	0.00
ATOM	2858	H	PHE	X	186	32.457	65.209	37.025	0.00	0.00
ATOM	2859	CA	PHE	X	186	34.193	65.410	35.803	0.00	0.00
ATOM	2860	HA	PHE	X	186	34.757	66.301	35.526	0.00	0.00
ATOM	2861	CB	PHE	X	186	34.955	64.448	36.667	0.00	0.00
ATOM	2862	HB2	PHE	X	186	34.466	63.504	36.905	0.00	0.00
ATOM	2863	HB3	PHE	X	186	35.885	64.122	36.200	0.00	0.00
ATOM	2864	CG	PHE	X	186	35.400	64.998	37.991	0.00	0.00
ATOM	2865	CD1	PHE	X	186	34.806	64.526	39.213	0.00	0.00
ATOM	2866	HD1	PHE	X	186	33.986	63.824	39.196	0.00	0.00
ATOM	2867	CE1	PHE	X	186	35.189	65.214	40.414	0.00	0.00
ATOM	2868	HE1	PHE	X	186	34.716	64.907	41.335	0.00	0.00
ATOM	2869	CZ	PHE	X	186	36.167	66.265	40.405	0.00	0.00
ATOM	2870	HZ	PHE	X	186	36.488	66.753	41.313	0.00	0.00
ATOM	2871	CE2	PHE	X	186	36.724	66.692	39.208	0.00	0.00
ATOM	2872	HE2	PHE	X	186	37.446	67.488	39.312	0.00	0.00
ATOM	2873	CD2	PHE	X	186	36.376	66.028	38.022	0.00	0.00
ATOM	2874	HD2	PHE	X	186	36.766	66.454	37.110	0.00	0.00
ATOM	2875	C	PHE	X	186	33.829	64.734	34.493	0.00	0.00
ATOM	2876	O	PHE	X	186	34.701	64.207	33.791	0.00	0.00
ATOM	2877	N	GLY	X	187	32.552	64.890	34.010	0.00	0.00
ATOM	2878	H	GLY	X	187	31.956	65.437	34.615	0.00	0.00
ATOM	2879	CA	GLY	X	187	32.025	64.366	32.740	0.00	0.00
ATOM	2880	HA2	GLY	X	187	31.302	65.182	32.348	0.00	0.00
ATOM	2881	HA3	GLY	X	187	32.869	64.211	32.028	0.00	0.00
ATOM	2882	C	GLY	X	187	31.381	63.011	32.749	0.00	0.00
ATOM	2883	O	GLY	X	187	31.083	62.400	31.733	0.00	0.00
ATOM	2884	N	GLY	X	188	31.037	62.469	33.917	0.00	0.00
ATOM	2885	H	GLY	X	188	31.140	63.104	34.696	0.00	0.00
ATOM	2886	CA	GLY	X	188	30.303	61.260	34.143	0.00	0.00
ATOM	2887	HA2	GLY	X	188	30.743	60.478	33.711	0.00	0.00
ATOM	2888	HA3	GLY	X	188	30.305	61.152	35.246	0.00	0.00
ATOM	2889	C	GLY	X	188	28.876	61.363	33.709	0.00	0.00
ATOM	2890	O	GLY	X	188	28.194	62.381	33.730	0.00	0.00
ATOM	2891	N	ASP	X	189	28.368	60.196	33.427	0.00	0.00
ATOM	2892	H	ASP	X	189	29.072	59.479	33.328	0.00	0.00
ATOM	2893	CA	ASP	X	189	27.033	59.704	33.339	0.00	0.00
ATOM	2894	HA	ASP	X	189	26.257	60.469	33.357	0.00	0.00
ATOM	2895	CB	ASP	X	189	26.904	58.852	32.036	0.00	0.00
ATOM	2896	HB2	ASP	X	189	27.344	59.401	31.203	0.00	0.00
ATOM	2897	HB3	ASP	X	189	27.533	57.962	32.071	0.00	0.00
ATOM	2898	CG	ASP	X	189	25.483	58.364	31.828	0.00	0.00
ATOM	2899	OD1	ASP	X	189	24.617	58.472	32.700	0.00	0.00
ATOM	2900	OD2	ASP	X	189	25.113	57.743	30.811	0.00	0.00
ATOM	2901	C	ASP	X	189	26.814	58.842	34.605	0.00	0.00
ATOM	2902	O	ASP	X	189	27.093	57.685	34.597	0.00	0.00
ATOM	2903	N	PRO	X	190	26.130	59.416	35.652	0.00	0.00
ATOM	2904	CD	PRO	X	190	25.874	60.834	35.701	0.00	0.00
ATOM	2905	HD2	PRO	X	190	24.948	61.015	35.156	0.00	0.00
ATOM	2906	HD3	PRO	X	190	26.704	61.428	35.319	0.00	0.00
ATOM	2907	CG	PRO	X	190	25.477	61.058	37.125	0.00	0.00
ATOM	2908	HG2	PRO	X	190	24.723	61.825	37.305	0.00	0.00
ATOM	2909	HG3	PRO	X	190	26.409	61.328	37.620	0.00	0.00

ATOM	2910	CB	PRO	X	190	25.074	59.744	37.769	0.00	0.00
ATOM	2911	HB2	PRO	X	190	23.985	59.721	37.723	0.00	0.00
ATOM	2912	HB3	PRO	X	190	25.355	59.581	38.809	0.00	0.00
ATOM	2913	CA	PRO	X	190	25.662	58.720	36.833	0.00	0.00
ATOM	2914	HA	PRO	X	190	26.536	58.278	37.312	0.00	0.00
ATOM	2915	C	PRO	X	190	24.595	57.692	36.552	0.00	0.00
ATOM	2916	O	PRO	X	190	24.385	56.743	37.323	0.00	0.00
ATOM	2917	N	THR	X	191	23.883	57.752	35.436	0.00	0.00
ATOM	2918	H	THR	X	191	24.127	58.510	34.816	0.00	0.00
ATOM	2919	CA	THR	X	191	22.906	56.652	35.069	0.00	0.00
ATOM	2920	HA	THR	X	191	22.408	56.285	35.967	0.00	0.00
ATOM	2921	CB	THR	X	191	21.768	57.163	34.143	0.00	0.00
ATOM	2922	HB	THR	X	191	21.023	56.369	34.082	0.00	0.00
ATOM	2923	CG2	THR	X	191	21.141	58.444	34.597	0.00	0.00
ATOM	2924	HG21	THR	X	191	21.763	59.333	34.488	0.00	0.00
ATOM	2925	HG22	THR	X	191	20.142	58.559	34.174	0.00	0.00
ATOM	2926	HG23	THR	X	191	20.912	58.310	35.654	0.00	0.00
ATOM	2927	OG1	THR	X	191	22.208	57.350	32.794	0.00	0.00
ATOM	2928	HG1	THR	X	191	23.038	57.832	32.767	0.00	0.00
ATOM	2929	C	THR	X	191	23.545	55.419	34.407	0.00	0.00
ATOM	2930	O	THR	X	191	22.840	54.538	33.953	0.00	0.00
ATOM	2931	N	SER	X	192	24.910	55.411	34.283	0.00	0.00
ATOM	2932	H	SER	X	192	25.448	56.206	34.597	0.00	0.00
ATOM	2933	CA	SER	X	192	25.804	54.323	33.751	0.00	0.00
ATOM	2934	HA	SER	X	192	25.090	53.523	33.556	0.00	0.00
ATOM	2935	CB	SER	X	192	26.368	54.901	32.431	0.00	0.00
ATOM	2936	HB2	SER	X	192	26.990	55.794	32.487	0.00	0.00
ATOM	2937	HB3	SER	X	192	27.048	54.166	32.000	0.00	0.00
ATOM	2938	OG	SER	X	192	25.333	55.129	31.527	0.00	0.00
ATOM	2939	HG	SER	X	192	25.415	56.065	31.333	0.00	0.00
ATOM	2940	C	SER	X	192	26.928	53.976	34.664	0.00	0.00
ATOM	2941	O	SER	X	192	28.028	53.710	34.093	0.00	0.00
ATOM	2942	N	VAL	X	193	26.753	53.948	35.979	0.00	0.00
ATOM	2943	H	VAL	X	193	25.807	54.088	36.303	0.00	0.00
ATOM	2944	CA	VAL	X	193	27.778	53.528	36.861	0.00	0.00
ATOM	2945	HA	VAL	X	193	28.705	53.993	36.527	0.00	0.00
ATOM	2946	CB	VAL	X	193	27.506	54.170	38.288	0.00	0.00
ATOM	2947	HB	VAL	X	193	26.575	53.731	38.648	0.00	0.00
ATOM	2948	CG1	VAL	X	193	28.524	53.702	39.350	0.00	0.00
ATOM	2949	HG11	VAL	X	193	29.384	54.358	39.213	0.00	0.00
ATOM	2950	HG12	VAL	X	193	28.190	53.873	40.373	0.00	0.00
ATOM	2951	HG13	VAL	X	193	28.669	52.634	39.187	0.00	0.00
ATOM	2952	CG2	VAL	X	193	27.513	55.691	38.288	0.00	0.00
ATOM	2953	HG21	VAL	X	193	27.275	56.031	39.296	0.00	0.00
ATOM	2954	HG22	VAL	X	193	28.471	56.090	37.955	0.00	0.00
ATOM	2955	HG23	VAL	X	193	26.738	55.996	37.585	0.00	0.00
ATOM	2956	C	VAL	X	193	28.053	52.041	36.810	0.00	0.00
ATOM	2957	O	VAL	X	193	27.218	51.220	37.132	0.00	0.00
ATOM	2958	N	THR	X	194	29.254	51.694	36.283	0.00	0.00
ATOM	2959	H	THR	X	194	29.916	52.432	36.092	0.00	0.00
ATOM	2960	CA	THR	X	194	29.720	50.296	36.210	0.00	0.00
ATOM	2961	HA	THR	X	194	28.897	49.611	36.411	0.00	0.00
ATOM	2962	CB	THR	X	194	30.315	50.057	34.824	0.00	0.00
ATOM	2963	HB	THR	X	194	31.106	50.803	34.742	0.00	0.00
ATOM	2964	CG2	THR	X	194	30.885	48.654	34.687	0.00	0.00
ATOM	2965	HG21	THR	X	194	30.267	47.812	34.999	0.00	0.00
ATOM	2966	HG22	THR	X	194	31.192	48.440	33.663	0.00	0.00
ATOM	2967	HG23	THR	X	194	31.856	48.586	35.178	0.00	0.00
ATOM	2968	OG1	THR	X	194	29.356	50.305	33.811	0.00	0.00
ATOM	2969	HG1	THR	X	194	29.330	51.252	33.658	0.00	0.00
ATOM	2970	C	THR	X	194	30.836	50.126	37.270	0.00	0.00
ATOM	2971	O	THR	X	194	31.728	50.972	37.362	0.00	0.00
ATOM	2972	N	LEU	X	195	30.817	49.008	37.993	0.00	0.00
ATOM	2973	H	LEU	X	195	30.280	48.258	37.582	0.00	0.00
ATOM	2974	CA	LEU	X	195	31.802	48.552	38.987	0.00	0.00
ATOM	2975	HA	LEU	X	195	32.382	49.428	39.274	0.00	0.00
ATOM	2976	CB	LEU	X	195	31.200	48.010	40.264	0.00	0.00
ATOM	2977	HB2	LEU	X	195	30.738	47.045	40.052	0.00	0.00
ATOM	2978	HB3	LEU	X	195	32.020	47.833	40.960	0.00	0.00
ATOM	2979	CG	LEU	X	195	30.004	48.804	40.922	0.00	0.00

ATOM	2980	HG	LEU	X	195	29.018	48.656	40.482	0.00	0.00
ATOM	2981	CD1	LEU	X	195	29.904	48.370	42.441	0.00	0.00
ATOM	2982	HD11	LEU	X	195	30.746	48.535	43.113	0.00	0.00
ATOM	2983	HD12	LEU	X	195	29.035	48.767	42.966	0.00	0.00
ATOM	2984	HD13	LEU	X	195	29.874	47.282	42.392	0.00	0.00
ATOM	2985	CD2	LEU	X	195	30.210	50.279	41.011	0.00	0.00
ATOM	2986	HD21	LEU	X	195	30.077	50.821	40.075	0.00	0.00
ATOM	2987	HD22	LEU	X	195	29.510	50.654	41.757	0.00	0.00
ATOM	2988	HD23	LEU	X	195	31.238	50.542	41.261	0.00	0.00
ATOM	2989	C	LEU	X	195	32.805	47.575	38.431	0.00	0.00
ATOM	2990	O	LEU	X	195	32.458	46.615	37.826	0.00	0.00
ATOM	2991	N	PHE	X	196	34.068	47.709	38.891	0.00	0.00
ATOM	2992	H	PHE	X	196	34.302	48.384	39.605	0.00	0.00
ATOM	2993	CA	PHE	X	196	35.151	46.775	38.474	0.00	0.00
ATOM	2994	HA	PHE	X	196	34.639	45.814	38.498	0.00	0.00
ATOM	2995	CB	PHE	X	196	35.496	46.972	36.949	0.00	0.00
ATOM	2996	HB2	PHE	X	196	35.890	46.059	36.504	0.00	0.00
ATOM	2997	HB3	PHE	X	196	34.555	47.052	36.404	0.00	0.00
ATOM	2998	CG	PHE	X	196	36.186	48.152	36.450	0.00	0.00
ATOM	2999	CD1	PHE	X	196	36.104	49.436	37.086	0.00	0.00
ATOM	3000	HD1	PHE	X	196	35.507	49.546	37.979	0.00	0.00
ATOM	3001	CE1	PHE	X	196	36.714	50.514	36.504	0.00	0.00
ATOM	3002	HE1	PHE	X	196	36.690	51.492	36.961	0.00	0.00
ATOM	3003	CZ	PHE	X	196	37.464	50.337	35.291	0.00	0.00
ATOM	3004	HZ	PHE	X	196	37.989	51.121	34.767	0.00	0.00
ATOM	3005	CE2	PHE	X	196	37.531	49.085	34.680	0.00	0.00
ATOM	3006	HE2	PHE	X	196	38.119	49.061	33.775	0.00	0.00
ATOM	3007	CD2	PHE	X	196	36.933	47.951	35.249	0.00	0.00
ATOM	3008	HD2	PHE	X	196	37.003	46.941	34.872	0.00	0.00
ATOM	3009	C	PHE	X	196	36.282	46.682	39.488	0.00	0.00
ATOM	3010	O	PHE	X	196	36.408	47.546	40.333	0.00	0.00
ATOM	3011	N	GLY	X	197	36.979	45.565	39.565	0.00	0.00
ATOM	3012	H	GLY	X	197	36.764	44.787	38.959	0.00	0.00
ATOM	3013	CA	GLY	X	197	38.146	45.345	40.455	0.00	0.00
ATOM	3014	HA2	GLY	X	197	38.804	46.216	40.361	0.00	0.00
ATOM	3015	HA3	GLY	X	197	37.836	45.506	41.489	0.00	0.00
ATOM	3016	C	GLY	X	197	38.841	43.961	40.285	0.00	0.00
ATOM	3017	O	GLY	X	197	38.432	43.156	39.444	0.00	0.00
ATOM	3018	N	GLU	X	198	39.880	43.639	41.031	0.00	0.00
ATOM	3019	H	GLU	X	198	40.212	44.327	41.692	0.00	0.00
ATOM	3020	CA	GLU	X	198	40.439	42.288	41.103	0.00	0.00
ATOM	3021	HA	GLU	X	198	39.876	41.695	40.382	0.00	0.00
ATOM	3022	CB	GLU	X	198	41.879	42.189	40.596	0.00	0.00
ATOM	3023	HB2	GLU	X	198	42.054	41.148	40.324	0.00	0.00
ATOM	3024	HB3	GLU	X	198	42.016	42.646	39.616	0.00	0.00
ATOM	3025	CG	GLU	X	198	43.071	42.723	41.455	0.00	0.00
ATOM	3026	HG2	GLU	X	198	42.968	42.374	42.482	0.00	0.00
ATOM	3027	HG3	GLU	X	198	43.969	42.226	41.086	0.00	0.00
ATOM	3028	CD	GLU	X	198	43.289	44.208	41.656	0.00	0.00
ATOM	3029	OE1	GLU	X	198	42.283	44.898	41.952	0.00	0.00
ATOM	3030	OE2	GLU	X	198	44.470	44.697	41.616	0.00	0.00
ATOM	3031	C	GLU	X	198	40.378	41.744	42.551	0.00	0.00
ATOM	3032	O	GLU	X	198	40.320	42.361	43.560	0.00	0.00
ATOM	3033	N	XA1	X	199	40.312	40.433	42.623	0.00	0.00
ATOM	3034	CA	XA1	X	199	40.529	39.575	43.784	0.00	0.00
ATOM	3035	C	XA1	X	199	39.597	39.953	44.969	0.00	0.00
ATOM	3036	O	XA1	X	199	38.374	39.895	44.818	0.00	0.00
ATOM	3037	CB	XA1	X	199	41.975	39.616	44.347	0.00	0.00
ATOM	3038	OG	XA1	X	199	42.067	38.620	45.351	0.00	0.00
ATOM	3039	P1	XA1	X	199	43.088	39.081	46.488	0.00	0.00
ATOM	3040	O1	XA1	X	199	42.991	40.523	46.803	0.00	0.00
ATOM	3041	O2	XA1	X	199	44.514	38.715	46.255	0.00	0.00
ATOM	3042	C1	XA1	X	199	42.537	38.008	47.795	0.00	0.00
ATOM	3043	H	XA1	X	199	40.328	39.919	41.754	0.00	0.00
ATOM	3044	HA	XA1	X	199	40.349	38.530	43.536	0.00	0.00
ATOM	3045	HB2	XA1	X	199	42.731	39.423	43.582	0.00	0.00
ATOM	3046	HB3	XA1	X	199	42.107	40.649	44.680	0.00	0.00
ATOM	3047	H11	XA1	X	199	42.275	37.024	47.399	0.00	0.00
ATOM	3048	H12	XA1	X	199	43.338	37.890	48.528	0.00	0.00
ATOM	3049	H13	XA1	X	199	41.607	38.460	48.146	0.00	0.00

ATOM	3050	N	ALA	X	200	40.029	40.521	46.064	0.00	0.00
ATOM	3051	H	ALA	X	200	41.018	40.487	46.267	0.00	0.00
ATOM	3052	CA	ALA	X	200	39.269	41.224	47.084	0.00	0.00
ATOM	3053	HA	ALA	X	200	38.575	40.558	47.595	0.00	0.00
ATOM	3054	CB	ALA	X	200	40.283	41.705	48.101	0.00	0.00
ATOM	3055	HB1	ALA	X	200	39.793	42.507	48.653	0.00	0.00
ATOM	3056	HB2	ALA	X	200	40.516	40.876	48.770	0.00	0.00
ATOM	3057	HB3	ALA	X	200	41.169	42.106	47.609	0.00	0.00
ATOM	3058	C	ALA	X	200	38.334	42.395	46.577	0.00	0.00
ATOM	3059	O	ALA	X	200	37.284	42.614	47.215	0.00	0.00
ATOM	3060	N	GLY	X	201	38.763	43.137	45.513	0.00	0.00
ATOM	3061	H	GLY	X	201	39.623	42.823	45.087	0.00	0.00
ATOM	3062	CA	GLY	X	201	38.077	44.283	44.798	0.00	0.00
ATOM	3063	HA2	GLY	X	201	37.678	45.018	45.522	0.00	0.00
ATOM	3064	HA3	GLY	X	201	38.878	44.742	44.231	0.00	0.00
ATOM	3065	C	GLY	X	201	37.010	43.854	43.811	0.00	0.00
ATOM	3066	O	GLY	X	201	35.892	44.416	43.793	0.00	0.00
ATOM	3067	N	ALA	X	202	37.309	42.677	43.190	0.00	0.00
ATOM	3068	H	ALA	X	202	38.221	42.283	43.376	0.00	0.00
ATOM	3069	CA	ALA	X	202	36.364	41.841	42.510	0.00	0.00
ATOM	3070	HA	ALA	X	202	35.898	42.600	41.882	0.00	0.00
ATOM	3071	CB	ALA	X	202	37.109	40.816	41.662	0.00	0.00
ATOM	3072	HB1	ALA	X	202	36.383	40.131	41.223	0.00	0.00
ATOM	3073	HB2	ALA	X	202	37.849	41.180	40.949	0.00	0.00
ATOM	3074	HB3	ALA	X	202	37.591	40.187	42.410	0.00	0.00
ATOM	3075	C	ALA	X	202	35.367	41.228	43.457	0.00	0.00
ATOM	3076	O	ALA	X	202	34.160	41.541	43.298	0.00	0.00
ATOM	3077	N	ALA	X	203	35.699	40.418	44.417	0.00	0.00
ATOM	3078	H	ALA	X	203	36.694	40.309	44.553	0.00	0.00
ATOM	3079	CA	ALA	X	203	34.827	39.937	45.510	0.00	0.00
ATOM	3080	HA	ALA	X	203	34.070	39.200	45.243	0.00	0.00
ATOM	3081	CB	ALA	X	203	35.695	39.123	46.618	0.00	0.00
ATOM	3082	HB1	ALA	X	203	35.182	38.982	47.569	0.00	0.00
ATOM	3083	HB2	ALA	X	203	35.969	38.116	46.305	0.00	0.00
ATOM	3084	HB3	ALA	X	203	36.594	39.684	46.874	0.00	0.00
ATOM	3085	C	ALA	X	203	34.073	41.117	46.208	0.00	0.00
ATOM	3086	O	ALA	X	203	32.896	40.968	46.519	0.00	0.00
ATOM	3087	N	SER	X	204	34.641	42.323	46.370	0.00	0.00
ATOM	3088	H	SER	X	204	35.650	42.302	46.325	0.00	0.00
ATOM	3089	CA	SER	X	204	33.910	43.470	46.875	0.00	0.00
ATOM	3090	HA	SER	X	204	33.301	43.235	47.748	0.00	0.00
ATOM	3091	CB	SER	X	204	34.695	44.700	47.289	0.00	0.00
ATOM	3092	HB2	SER	X	204	35.193	45.001	46.367	0.00	0.00
ATOM	3093	HB3	SER	X	204	33.999	45.455	47.654	0.00	0.00
ATOM	3094	OG	SER	X	204	35.654	44.371	48.242	0.00	0.00
ATOM	3095	HG	SER	X	204	36.452	44.071	47.801	0.00	0.00
ATOM	3096	C	SER	X	204	32.784	43.889	45.970	0.00	0.00
ATOM	3097	O	SER	X	204	31.701	44.110	46.462	0.00	0.00
ATOM	3098	N	VAL	X	205	32.974	43.953	44.646	0.00	0.00
ATOM	3099	H	VAL	X	205	33.931	43.833	44.348	0.00	0.00
ATOM	3100	CA	VAL	X	205	31.981	44.199	43.630	0.00	0.00
ATOM	3101	HA	VAL	X	205	31.639	45.205	43.873	0.00	0.00
ATOM	3102	CB	VAL	X	205	32.531	44.199	42.156	0.00	0.00
ATOM	3103	HB	VAL	X	205	33.039	43.274	41.884	0.00	0.00
ATOM	3104	CG1	VAL	X	205	31.385	44.369	41.067	0.00	0.00
ATOM	3105	HG11	VAL	X	205	30.695	45.201	41.204	0.00	0.00
ATOM	3106	HG12	VAL	X	205	31.842	44.577	40.099	0.00	0.00
ATOM	3107	HG13	VAL	X	205	30.774	43.497	40.836	0.00	0.00
ATOM	3108	CG2	VAL	X	205	33.533	45.231	41.845	0.00	0.00
ATOM	3109	HG21	VAL	X	205	34.547	45.102	42.223	0.00	0.00
ATOM	3110	HG22	VAL	X	205	33.698	45.245	40.767	0.00	0.00
ATOM	3111	HG23	VAL	X	205	33.207	46.176	42.278	0.00	0.00
ATOM	3112	C	VAL	X	205	30.845	43.186	43.724	0.00	0.00
ATOM	3113	O	VAL	X	205	29.670	43.449	43.674	0.00	0.00
ATOM	3114	N	GLY	X	206	31.192	41.890	43.937	0.00	0.00
ATOM	3115	H	GLY	X	206	32.186	41.711	43.947	0.00	0.00
ATOM	3116	CA	GLY	X	206	30.192	40.817	44.175	0.00	0.00
ATOM	3117	HA2	GLY	X	206	29.521	40.618	43.316	0.00	0.00
ATOM	3118	HA3	GLY	X	206	30.830	39.920	44.401	0.00	0.00
ATOM	3119	C	GLY	X	206	29.393	40.982	45.461	0.00	0.00

ATOM	3120	O	GLY	X	206	28.222	40.580	45.510	0.00	0.00
ATOM	3121	N	MET	X	207	30.020	41.574	46.509	0.00	0.00
ATOM	3122	H	MET	X	207	30.951	41.963	46.461	0.00	0.00
ATOM	3123	CA	MET	X	207	29.205	41.829	47.726	0.00	0.00
ATOM	3124	HA	MET	X	207	28.702	40.901	48.001	0.00	0.00
ATOM	3125	CB	MET	X	207	30.008	42.234	48.956	0.00	0.00
ATOM	3126	HB2	MET	X	207	30.383	43.232	48.734	0.00	0.00
ATOM	3127	HB3	MET	X	207	29.328	42.484	49.771	0.00	0.00
ATOM	3128	CG	MET	X	207	31.127	41.260	49.472	0.00	0.00
ATOM	3129	HG2	MET	X	207	31.984	41.327	48.801	0.00	0.00
ATOM	3130	HG3	MET	X	207	31.485	41.525	50.467	0.00	0.00
ATOM	3131	SD	MET	X	207	30.556	39.541	49.439	0.00	0.00
ATOM	3132	CE	MET	X	207	32.162	38.834	49.622	0.00	0.00
ATOM	3133	HE1	MET	X	207	31.966	37.770	49.753	0.00	0.00
ATOM	3134	HE2	MET	X	207	32.794	38.934	48.740	0.00	0.00
ATOM	3135	HE3	MET	X	207	32.591	39.151	50.573	0.00	0.00
ATOM	3136	C	MET	X	207	28.137	42.814	47.433	0.00	0.00
ATOM	3137	O	MET	X	207	27.062	42.727	47.917	0.00	0.00
ATOM	3138	N	HIE	X	208	28.500	43.828	46.579	0.00	0.00
ATOM	3139	H	HIE	X	208	29.456	43.882	46.258	0.00	0.00
ATOM	3140	CA	HIE	X	208	27.402	44.806	46.157	0.00	0.00
ATOM	3141	HA	HIE	X	208	26.925	45.063	47.103	0.00	0.00
ATOM	3142	CB	HIE	X	208	28.092	46.168	45.647	0.00	0.00
ATOM	3143	HB2	HIE	X	208	28.512	46.102	44.644	0.00	0.00
ATOM	3144	HB3	HIE	X	208	27.267	46.869	45.520	0.00	0.00
ATOM	3145	CG	HIE	X	208	29.105	46.811	46.576	0.00	0.00
ATOM	3146	ND1	HIE	X	208	28.883	47.176	47.903	0.00	0.00
ATOM	3147	CE1	HIE	X	208	30.054	47.629	48.397	0.00	0.00
ATOM	3148	HE1	HIE	X	208	30.323	47.816	49.426	0.00	0.00
ATOM	3149	NE2	HIE	X	208	30.998	47.585	47.422	0.00	0.00
ATOM	3150	HE2	HIE	X	208	31.982	47.798	47.493	0.00	0.00
ATOM	3151	CD2	HIE	X	208	30.416	47.078	46.281	0.00	0.00
ATOM	3152	HD2	HIE	X	208	30.924	46.892	45.347	0.00	0.00
ATOM	3153	C	HIE	X	208	26.330	44.182	45.228	0.00	0.00
ATOM	3154	O	HIE	X	208	25.181	44.551	45.299	0.00	0.00
ATOM	3155	N	LEU	X	209	26.690	43.135	44.450	0.00	0.00
ATOM	3156	H	LEU	X	209	27.694	43.027	44.482	0.00	0.00
ATOM	3157	CA	LEU	X	209	25.772	42.250	43.725	0.00	0.00
ATOM	3158	HA	LEU	X	209	25.042	42.768	43.104	0.00	0.00
ATOM	3159	CB	LEU	X	209	26.539	41.346	42.747	0.00	0.00
ATOM	3160	HB2	LEU	X	209	27.051	41.965	42.010	0.00	0.00
ATOM	3161	HB3	LEU	X	209	27.349	40.881	43.308	0.00	0.00
ATOM	3162	CG	LEU	X	209	25.721	40.262	41.898	0.00	0.00
ATOM	3163	HG	LEU	X	209	25.039	39.715	42.549	0.00	0.00
ATOM	3164	CD1	LEU	X	209	24.751	40.930	40.780	0.00	0.00
ATOM	3165	HD11	LEU	X	209	25.391	41.448	40.065	0.00	0.00
ATOM	3166	HD12	LEU	X	209	24.295	40.069	40.289	0.00	0.00
ATOM	3167	HD13	LEU	X	209	24.058	41.609	41.275	0.00	0.00
ATOM	3168	CD2	LEU	X	209	26.684	39.255	41.258	0.00	0.00
ATOM	3169	HD21	LEU	X	209	27.317	38.841	42.042	0.00	0.00
ATOM	3170	HD22	LEU	X	209	26.176	38.473	40.694	0.00	0.00
ATOM	3171	HD23	LEU	X	209	27.304	39.834	40.573	0.00	0.00
ATOM	3172	C	LEU	X	209	24.900	41.415	44.734	0.00	0.00
ATOM	3173	O	LEU	X	209	23.760	41.256	44.458	0.00	0.00
ATOM	3174	N	LEU	X	210	25.384	40.849	45.803	0.00	0.00
ATOM	3175	H	LEU	X	210	26.394	40.865	45.838	0.00	0.00
ATOM	3176	CA	LEU	X	210	24.655	40.164	46.882	0.00	0.00
ATOM	3177	HA	LEU	X	210	23.861	39.570	46.432	0.00	0.00
ATOM	3178	CB	LEU	X	210	25.692	39.172	47.495	0.00	0.00
ATOM	3179	HB2	LEU	X	210	26.535	39.734	47.897	0.00	0.00
ATOM	3180	HB3	LEU	X	210	25.170	38.686	48.319	0.00	0.00
ATOM	3181	CG	LEU	X	210	26.370	38.118	46.479	0.00	0.00
ATOM	3182	HG	LEU	X	210	26.830	38.654	45.648	0.00	0.00
ATOM	3183	CD1	LEU	X	210	27.407	37.273	47.177	0.00	0.00
ATOM	3184	HD11	LEU	X	210	27.801	36.486	46.534	0.00	0.00
ATOM	3185	HD12	LEU	X	210	28.181	37.956	47.528	0.00	0.00
ATOM	3186	HD13	LEU	X	210	26.903	36.765	47.999	0.00	0.00
ATOM	3187	CD2	LEU	X	210	25.257	37.219	45.859	0.00	0.00
ATOM	3188	HD21	LEU	X	210	25.656	36.692	44.992	0.00	0.00
ATOM	3189	HD22	LEU	X	210	24.967	36.531	46.652	0.00	0.00

ATOM	3190	HD23	LEU	X	210	24.395	37.787	45.509	0.00	0.00
ATOM	3191	C	LEU	X	210	23.955	40.956	47.965	0.00	0.00
ATOM	3192	O	LEU	X	210	23.037	40.415	48.650	0.00	0.00
ATOM	3193	N	SER	X	211	24.228	42.268	48.094	0.00	0.00
ATOM	3194	H	SER	X	211	24.919	42.646	47.463	0.00	0.00
ATOM	3195	CA	SER	X	211	23.601	43.150	49.044	0.00	0.00
ATOM	3196	HA	SER	X	211	22.991	42.556	49.725	0.00	0.00
ATOM	3197	CB	SER	X	211	24.704	43.745	49.962	0.00	0.00
ATOM	3198	HB2	SER	X	211	25.308	42.869	50.200	0.00	0.00
ATOM	3199	HB3	SER	X	211	25.305	44.463	49.405	0.00	0.00
ATOM	3200	OG	SER	X	211	24.287	44.190	51.205	0.00	0.00
ATOM	3201	HG	SER	X	211	24.374	43.512	51.879	0.00	0.00
ATOM	3202	C	SER	X	211	22.777	44.252	48.365	0.00	0.00
ATOM	3203	O	SER	X	211	23.255	45.307	48.017	0.00	0.00
ATOM	3204	N	PRO	X	212	21.414	43.984	48.413	0.00	0.00
ATOM	3205	CD	PRO	X	212	20.621	42.912	48.879	0.00	0.00
ATOM	3206	HD2	PRO	X	212	20.430	42.871	49.951	0.00	0.00
ATOM	3207	HD3	PRO	X	212	21.109	42.011	48.507	0.00	0.00
ATOM	3208	CG	PRO	X	212	19.194	43.085	48.279	0.00	0.00
ATOM	3209	HG2	PRO	X	212	18.383	42.570	48.794	0.00	0.00
ATOM	3210	HG3	PRO	X	212	19.230	42.835	47.219	0.00	0.00
ATOM	3211	CB	PRO	X	212	19.001	44.543	48.344	0.00	0.00
ATOM	3212	HB2	PRO	X	212	18.772	44.873	49.357	0.00	0.00
ATOM	3213	HB3	PRO	X	212	18.342	44.904	47.553	0.00	0.00
ATOM	3214	CA	PRO	X	212	20.421	45.036	47.957	0.00	0.00
ATOM	3215	HA	PRO	X	212	20.336	44.937	46.875	0.00	0.00
ATOM	3216	C	PRO	X	212	20.612	46.525	48.449	0.00	0.00
ATOM	3217	O	PRO	X	212	20.365	47.370	47.613	0.00	0.00
ATOM	3218	N	PRO	X	213	20.986	46.890	49.755	0.00	0.00
ATOM	3219	CD	PRO	X	213	21.064	46.075	50.864	0.00	0.00
ATOM	3220	HD2	PRO	X	213	22.123	45.820	50.839	0.00	0.00
ATOM	3221	HD3	PRO	X	213	20.529	45.126	50.841	0.00	0.00
ATOM	3222	CG	PRO	X	213	20.699	46.883	52.006	0.00	0.00
ATOM	3223	HG2	PRO	X	213	21.194	46.484	52.891	0.00	0.00
ATOM	3224	HG3	PRO	X	213	19.617	47.006	51.972	0.00	0.00
ATOM	3225	CB	PRO	X	213	21.257	48.282	51.661	0.00	0.00
ATOM	3226	HB2	PRO	X	213	22.286	48.386	52.005	0.00	0.00
ATOM	3227	HB3	PRO	X	213	20.616	49.046	52.102	0.00	0.00
ATOM	3228	CA	PRO	X	213	21.194	48.283	50.131	0.00	0.00
ATOM	3229	HA	PRO	X	213	20.359	48.862	49.737	0.00	0.00
ATOM	3230	C	PRO	X	213	22.454	48.959	49.580	0.00	0.00
ATOM	3231	O	PRO	X	213	22.496	50.198	49.474	0.00	0.00
ATOM	3232	N	SER	X	214	23.331	48.107	48.957	0.00	0.00
ATOM	3233	H	SER	X	214	23.194	47.108	48.901	0.00	0.00
ATOM	3234	CA	SER	X	214	24.321	48.668	47.921	0.00	0.00
ATOM	3235	HA	SER	X	214	24.766	49.615	48.226	0.00	0.00
ATOM	3236	CB	SER	X	214	25.481	47.689	47.699	0.00	0.00
ATOM	3237	HB2	SER	X	214	25.069	46.738	47.362	0.00	0.00
ATOM	3238	HB3	SER	X	214	26.121	48.127	46.932	0.00	0.00
ATOM	3239	OG	SER	X	214	26.185	47.530	48.858	0.00	0.00
ATOM	3240	HG	SER	X	214	27.106	47.488	48.588	0.00	0.00
ATOM	3241	C	SER	X	214	23.701	48.801	46.493	0.00	0.00
ATOM	3242	O	SER	X	214	24.107	49.647	45.780	0.00	0.00
ATOM	3243	N	ARG	X	215	22.803	47.860	46.204	0.00	0.00
ATOM	3244	H	ARG	X	215	22.640	47.163	46.917	0.00	0.00
ATOM	3245	CA	ARG	X	215	22.581	47.516	44.825	0.00	0.00
ATOM	3246	HA	ARG	X	215	23.562	47.528	44.351	0.00	0.00
ATOM	3247	CB	ARG	X	215	22.119	46.023	44.816	0.00	0.00
ATOM	3248	HB2	ARG	X	215	22.595	45.461	45.619	0.00	0.00
ATOM	3249	HB3	ARG	X	215	21.032	46.034	44.902	0.00	0.00
ATOM	3250	CG	ARG	X	215	22.493	45.329	43.459	0.00	0.00
ATOM	3251	HG2	ARG	X	215	21.800	45.719	42.714	0.00	0.00
ATOM	3252	HG3	ARG	X	215	23.532	45.455	43.153	0.00	0.00
ATOM	3253	CD	ARG	X	215	22.204	43.831	43.514	0.00	0.00
ATOM	3254	HD2	ARG	X	215	22.331	43.495	42.485	0.00	0.00
ATOM	3255	HD3	ARG	X	215	22.800	43.391	44.314	0.00	0.00
ATOM	3256	NE	ARG	X	215	20.788	43.627	43.760	0.00	0.00
ATOM	3257	HE	ARG	X	215	20.172	44.292	43.314	0.00	0.00
ATOM	3258	CZ	ARG	X	215	20.219	42.628	44.430	0.00	0.00
ATOM	3259	NH1	ARG	X	215	20.908	41.584	44.954	0.00	0.00

ATOM	3260	HH11	ARG	X	215	21.875	41.500	44.675	0.00	0.00
ATOM	3261	HH12	ARG	X	215	20.464	40.887	45.534	0.00	0.00
ATOM	3262	NH2	ARG	X	215	18.903	42.607	44.549	0.00	0.00
ATOM	3263	HH21	ARG	X	215	18.310	43.371	44.258	0.00	0.00
ATOM	3264	HH22	ARG	X	215	18.533	41.793	45.020	0.00	0.00
ATOM	3265	C	ARG	X	215	21.807	48.568	43.946	0.00	0.00
ATOM	3266	O	ARG	X	215	21.616	48.318	42.770	0.00	0.00
ATOM	3267	N	GLY	X	216	21.419	49.767	44.442	0.00	0.00
ATOM	3268	H	GLY	X	216	21.445	49.958	45.433	0.00	0.00
ATOM	3269	CA	GLY	X	216	20.834	50.856	43.693	0.00	0.00
ATOM	3270	HA2	GLY	X	216	20.353	50.527	42.703	0.00	0.00
ATOM	3271	HA3	GLY	X	216	20.182	51.365	44.293	0.00	0.00
ATOM	3272	C	GLY	X	216	21.802	51.992	43.318	0.00	0.00
ATOM	3273	O	GLY	X	216	21.435	52.914	42.514	0.00	0.00
ATOM	3274	N	LEU	X	217	23.108	52.041	43.789	0.00	0.00
ATOM	3275	H	LEU	X	217	23.312	51.418	44.558	0.00	0.00
ATOM	3276	CA	LEU	X	217	23.969	53.224	43.567	0.00	0.00
ATOM	3277	HA	LEU	X	217	23.335	54.102	43.445	0.00	0.00
ATOM	3278	CB	LEU	X	217	24.871	53.373	44.807	0.00	0.00
ATOM	3279	HB2	LEU	X	217	25.442	52.462	44.986	0.00	0.00
ATOM	3280	HB3	LEU	X	217	25.640	54.131	44.661	0.00	0.00
ATOM	3281	CG	LEU	X	217	24.110	53.623	46.137	0.00	0.00
ATOM	3282	HG	LEU	X	217	23.302	52.898	46.239	0.00	0.00
ATOM	3283	CD1	LEU	X	217	24.985	53.280	47.333	0.00	0.00
ATOM	3284	HD11	LEU	X	217	25.841	53.953	47.295	0.00	0.00
ATOM	3285	HD12	LEU	X	217	24.347	53.395	48.210	0.00	0.00
ATOM	3286	HD13	LEU	X	217	25.310	52.243	47.254	0.00	0.00
ATOM	3287	CD2	LEU	X	217	23.654	55.076	46.172	0.00	0.00
ATOM	3288	HD21	LEU	X	217	23.051	55.369	45.312	0.00	0.00
ATOM	3289	HD22	LEU	X	217	23.116	55.197	47.112	0.00	0.00
ATOM	3290	HD23	LEU	X	217	24.490	55.773	46.116	0.00	0.00
ATOM	3291	C	LEU	X	217	24.777	53.088	42.247	0.00	0.00
ATOM	3292	O	LEU	X	217	25.450	53.990	41.820	0.00	0.00
ATOM	3293	N	PHE	X	218	24.658	51.868	41.662	0.00	0.00
ATOM	3294	H	PHE	X	218	24.019	51.225	42.108	0.00	0.00
ATOM	3295	CA	PHE	X	218	25.204	51.390	40.426	0.00	0.00
ATOM	3296	HA	PHE	X	218	25.481	52.268	39.843	0.00	0.00
ATOM	3297	CB	PHE	X	218	26.512	50.720	40.799	0.00	0.00
ATOM	3298	HB2	PHE	X	218	27.064	50.681	39.860	0.00	0.00
ATOM	3299	HB3	PHE	X	218	27.102	51.437	41.370	0.00	0.00
ATOM	3300	CG	PHE	X	218	26.375	49.332	41.436	0.00	0.00
ATOM	3301	CD1	PHE	X	218	26.195	49.145	42.788	0.00	0.00
ATOM	3302	HD1	PHE	X	218	26.092	50.028	43.401	0.00	0.00
ATOM	3303	CE1	PHE	X	218	26.072	47.884	43.341	0.00	0.00
ATOM	3304	HE1	PHE	X	218	25.832	47.778	44.389	0.00	0.00
ATOM	3305	CZ	PHE	X	218	26.163	46.776	42.505	0.00	0.00
ATOM	3306	HZ	PHE	X	218	26.016	45.800	42.944	0.00	0.00
ATOM	3307	CE2	PHE	X	218	26.406	46.962	41.128	0.00	0.00
ATOM	3308	HE2	PHE	X	218	26.694	46.163	40.462	0.00	0.00
ATOM	3309	CD2	PHE	X	218	26.581	48.247	40.606	0.00	0.00
ATOM	3310	HD2	PHE	X	218	26.789	48.479	39.572	0.00	0.00
ATOM	3311	C	PHE	X	218	24.283	50.479	39.577	0.00	0.00
ATOM	3312	O	PHE	X	218	23.198	50.127	39.933	0.00	0.00
ATOM	3313	N	HIE	X	219	24.724	50.193	38.337	0.00	0.00
ATOM	3314	H	HIE	X	219	25.649	50.496	38.070	0.00	0.00
ATOM	3315	CA	HIE	X	219	23.866	49.665	37.203	0.00	0.00
ATOM	3316	HA	HIE	X	219	22.841	49.464	37.514	0.00	0.00
ATOM	3317	CB	HIE	X	219	23.925	50.777	36.178	0.00	0.00
ATOM	3318	HB2	HIE	X	219	24.963	51.006	35.936	0.00	0.00
ATOM	3319	HB3	HIE	X	219	23.402	50.530	35.254	0.00	0.00
ATOM	3320	CG	HIE	X	219	23.331	52.074	36.756	0.00	0.00
ATOM	3321	ND1	HIE	X	219	24.018	53.115	37.351	0.00	0.00
ATOM	3322	CE1	HIE	X	219	23.147	54.039	37.759	0.00	0.00
ATOM	3323	HE1	HIE	X	219	23.341	54.971	38.268	0.00	0.00
ATOM	3324	NE2	HIE	X	219	21.916	53.584	37.594	0.00	0.00
ATOM	3325	HE2	HIE	X	219	21.077	54.050	37.907	0.00	0.00
ATOM	3326	CD2	HIE	X	219	22.004	52.340	36.965	0.00	0.00
ATOM	3327	HD2	HIE	X	219	21.163	51.683	36.797	0.00	0.00
ATOM	3328	C	HIE	X	219	24.462	48.386	36.521	0.00	0.00
ATOM	3329	O	HIE	X	219	23.676	47.699	35.841	0.00	0.00

ATOM	3330	N	ARG	X	220	25.757	48.089	36.715	0.00	0.00
ATOM	3331	H	ARG	X	220	26.238	48.582	37.454	0.00	0.00
ATOM	3332	CA	ARG	X	220	26.618	47.122	35.985	0.00	0.00
ATOM	3333	HA	ARG	X	220	25.966	46.267	35.808	0.00	0.00
ATOM	3334	CB	ARG	X	220	27.161	47.702	34.736	0.00	0.00
ATOM	3335	HB2	ARG	X	220	27.287	48.754	34.989	0.00	0.00
ATOM	3336	HB3	ARG	X	220	28.053	47.169	34.407	0.00	0.00
ATOM	3337	CG	ARG	X	220	26.160	47.597	33.612	0.00	0.00
ATOM	3338	HG2	ARG	X	220	25.873	46.555	33.470	0.00	0.00
ATOM	3339	HG3	ARG	X	220	25.344	48.236	33.949	0.00	0.00
ATOM	3340	CD	ARG	X	220	26.470	48.342	32.242	0.00	0.00
ATOM	3341	HD2	ARG	X	220	26.772	49.360	32.486	0.00	0.00
ATOM	3342	HD3	ARG	X	220	27.340	47.888	31.768	0.00	0.00
ATOM	3343	NE	ARG	X	220	25.255	48.437	31.435	0.00	0.00
ATOM	3344	HE	ARG	X	220	24.629	47.645	31.462	0.00	0.00
ATOM	3345	CZ	ARG	X	220	24.783	49.494	30.828	0.00	0.00
ATOM	3346	NH1	ARG	X	220	25.488	50.580	30.721	0.00	0.00
ATOM	3347	HH11	ARG	X	220	26.388	50.681	31.168	0.00	0.00
ATOM	3348	HH12	ARG	X	220	25.102	51.409	30.291	0.00	0.00
ATOM	3349	NH2	ARG	X	220	23.643	49.234	30.204	0.00	0.00
ATOM	3350	HH21	ARG	X	220	23.198	48.329	30.255	0.00	0.00
ATOM	3351	HH22	ARG	X	220	23.236	49.892	29.555	0.00	0.00
ATOM	3352	C	ARG	X	220	27.830	46.608	36.775	0.00	0.00
ATOM	3353	O	ARG	X	220	28.396	47.439	37.547	0.00	0.00
ATOM	3354	N	ALA	X	221	28.153	45.336	36.677	0.00	0.00
ATOM	3355	H	ALA	X	221	27.607	44.776	36.038	0.00	0.00
ATOM	3356	CA	ALA	X	221	29.066	44.646	37.537	0.00	0.00
ATOM	3357	HA	ALA	X	221	29.552	45.339	38.224	0.00	0.00
ATOM	3358	CB	ALA	X	221	28.140	43.784	38.415	0.00	0.00
ATOM	3359	HB1	ALA	X	221	27.527	44.345	39.121	0.00	0.00
ATOM	3360	HB2	ALA	X	221	27.502	43.165	37.784	0.00	0.00
ATOM	3361	HB3	ALA	X	221	28.673	43.017	38.977	0.00	0.00
ATOM	3362	C	ALA	X	221	30.150	43.833	36.810	0.00	0.00
ATOM	3363	O	ALA	X	221	29.818	43.040	35.904	0.00	0.00
ATOM	3364	N	VAL	X	222	31.373	43.954	37.340	0.00	0.00
ATOM	3365	H	VAL	X	222	31.487	44.758	37.940	0.00	0.00
ATOM	3366	CA	VAL	X	222	32.554	43.139	36.810	0.00	0.00
ATOM	3367	HA	VAL	X	222	32.188	42.358	36.143	0.00	0.00
ATOM	3368	CB	VAL	X	222	33.549	43.973	35.950	0.00	0.00
ATOM	3369	HB	VAL	X	222	33.928	44.777	36.581	0.00	0.00
ATOM	3370	CG1	VAL	X	222	34.830	43.254	35.504	0.00	0.00
ATOM	3371	HG11	VAL	X	222	34.543	42.335	34.992	0.00	0.00
ATOM	3372	HG12	VAL	X	222	35.394	43.933	34.865	0.00	0.00
ATOM	3373	HG13	VAL	X	222	35.487	42.964	36.325	0.00	0.00
ATOM	3374	CG2	VAL	X	222	32.920	44.700	34.717	0.00	0.00
ATOM	3375	HG21	VAL	X	222	32.923	43.970	33.907	0.00	0.00
ATOM	3376	HG22	VAL	X	222	31.915	45.084	34.892	0.00	0.00
ATOM	3377	HG23	VAL	X	222	33.600	45.501	34.426	0.00	0.00
ATOM	3378	C	VAL	X	222	33.399	42.493	37.956	0.00	0.00
ATOM	3379	O	VAL	X	222	33.903	43.162	38.855	0.00	0.00
ATOM	3380	N	LEU	X	223	33.745	41.207	37.790	0.00	0.00
ATOM	3381	H	LEU	X	223	33.485	40.708	36.952	0.00	0.00
ATOM	3382	CA	LEU	X	223	34.562	40.407	38.798	0.00	0.00
ATOM	3383	HA	LEU	X	223	35.001	41.113	39.505	0.00	0.00
ATOM	3384	CB	LEU	X	223	33.722	39.298	39.450	0.00	0.00
ATOM	3385	HB2	LEU	X	223	33.209	38.702	38.696	0.00	0.00
ATOM	3386	HB3	LEU	X	223	34.380	38.609	39.980	0.00	0.00
ATOM	3387	CG	LEU	X	223	32.737	39.918	40.542	0.00	0.00
ATOM	3388	HG	LEU	X	223	33.349	40.538	41.196	0.00	0.00
ATOM	3389	CD1	LEU	X	223	31.444	40.608	39.969	0.00	0.00
ATOM	3390	HD11	LEU	X	223	30.803	40.940	40.786	0.00	0.00
ATOM	3391	HD12	LEU	X	223	31.653	41.480	39.350	0.00	0.00
ATOM	3392	HD13	LEU	X	223	30.928	39.895	39.326	0.00	0.00
ATOM	3393	CD2	LEU	X	223	32.120	38.776	41.371	0.00	0.00
ATOM	3394	HD21	LEU	X	223	31.484	38.147	40.748	0.00	0.00
ATOM	3395	HD22	LEU	X	223	32.883	38.199	41.893	0.00	0.00
ATOM	3396	HD23	LEU	X	223	31.484	39.206	42.145	0.00	0.00
ATOM	3397	C	LEU	X	223	35.828	39.734	38.056	0.00	0.00
ATOM	3398	O	LEU	X	223	35.644	39.159	37.012	0.00	0.00
ATOM	3399	N	GLN	X	224	37.093	39.852	38.596	0.00	0.00

ATOM	3400	H	GLN	X	224	37.098	40.468	39.396	0.00	0.00
ATOM	3401	CA	GLN	X	224	38.350	39.421	38.012	0.00	0.00
ATOM	3402	HA	GLN	X	224	38.205	38.732	37.179	0.00	0.00
ATOM	3403	CB	GLN	X	224	39.241	40.610	37.495	0.00	0.00
ATOM	3404	HB2	GLN	X	224	39.848	41.073	38.272	0.00	0.00
ATOM	3405	HB3	GLN	X	224	39.987	40.110	36.877	0.00	0.00
ATOM	3406	CG	GLN	X	224	38.441	41.568	36.615	0.00	0.00
ATOM	3407	HG2	GLN	X	224	37.860	41.018	35.874	0.00	0.00
ATOM	3408	HG3	GLN	X	224	37.755	42.095	37.278	0.00	0.00
ATOM	3409	CD	GLN	X	224	39.256	42.536	35.826	0.00	0.00
ATOM	3410	OE1	GLN	X	224	38.798	43.671	35.605	0.00	0.00
ATOM	3411	NE2	GLN	X	224	40.317	42.089	35.211	0.00	0.00
ATOM	3412	HE21	GLN	X	224	40.872	42.734	34.668	0.00	0.00
ATOM	3413	HE22	GLN	X	224	40.712	41.187	35.434	0.00	0.00
ATOM	3414	C	GLN	X	224	39.122	38.621	39.069	0.00	0.00
ATOM	3415	O	GLN	X	224	39.496	39.142	40.158	0.00	0.00
ATOM	3416	N	SER	X	225	39.497	37.400	38.748	0.00	0.00
ATOM	3417	H	SER	X	225	39.187	37.059	37.849	0.00	0.00
ATOM	3418	CA	SER	X	225	40.334	36.452	39.574	0.00	0.00
ATOM	3419	HA	SER	X	225	40.214	35.465	39.130	0.00	0.00
ATOM	3420	CB	SER	X	225	41.821	36.927	39.539	0.00	0.00
ATOM	3421	HB2	SER	X	225	41.732	38.008	39.642	0.00	0.00
ATOM	3422	HB3	SER	X	225	42.368	36.548	40.401	0.00	0.00
ATOM	3423	OG	SER	X	225	42.518	36.664	38.346	0.00	0.00
ATOM	3424	HG	SER	X	225	42.703	35.724	38.400	0.00	0.00
ATOM	3425	C	SER	X	225	39.875	36.348	41.013	0.00	0.00
ATOM	3426	O	SER	X	225	40.588	36.300	41.996	0.00	0.00
ATOM	3427	N	GLY	X	226	38.563	36.282	41.159	0.00	0.00
ATOM	3428	H	GLY	X	226	38.076	36.547	40.315	0.00	0.00
ATOM	3429	CA	GLY	X	226	37.851	36.108	42.413	0.00	0.00
ATOM	3430	HA2	GLY	X	226	38.165	35.134	42.780	0.00	0.00
ATOM	3431	HA3	GLY	X	226	38.196	36.811	43.164	0.00	0.00
ATOM	3432	C	GLY	X	226	36.378	36.151	42.315	0.00	0.00
ATOM	3433	O	GLY	X	226	35.825	36.484	41.302	0.00	0.00
ATOM	3434	N	ALA	X	227	35.783	35.730	43.397	0.00	0.00
ATOM	3435	H	ALA	X	227	36.398	35.371	44.113	0.00	0.00
ATOM	3436	CA	ALA	X	227	34.347	35.551	43.626	0.00	0.00
ATOM	3437	HA	ALA	X	227	33.781	36.224	42.982	0.00	0.00
ATOM	3438	CB	ALA	X	227	34.094	34.007	43.367	0.00	0.00
ATOM	3439	HB1	ALA	X	227	34.368	33.691	42.361	0.00	0.00
ATOM	3440	HB2	ALA	X	227	34.691	33.389	44.039	0.00	0.00
ATOM	3441	HB3	ALA	X	227	33.042	33.724	43.381	0.00	0.00
ATOM	3442	C	ALA	X	227	33.988	35.845	45.065	0.00	0.00
ATOM	3443	O	ALA	X	227	34.828	35.581	45.952	0.00	0.00
ATOM	3444	N	PRO	X	228	32.817	36.335	45.459	0.00	0.00
ATOM	3445	CD	PRO	X	228	31.783	36.846	44.578	0.00	0.00
ATOM	3446	HD2	PRO	X	228	31.525	36.223	43.722	0.00	0.00
ATOM	3447	HD3	PRO	X	228	32.097	37.832	44.233	0.00	0.00
ATOM	3448	CG	PRO	X	228	30.614	37.098	45.535	0.00	0.00
ATOM	3449	HG2	PRO	X	228	30.026	36.186	45.637	0.00	0.00
ATOM	3450	HG3	PRO	X	228	30.060	37.879	45.014	0.00	0.00
ATOM	3451	CB	PRO	X	228	31.282	37.391	46.842	0.00	0.00
ATOM	3452	HB2	PRO	X	228	30.594	37.299	47.683	0.00	0.00
ATOM	3453	HB3	PRO	X	228	31.735	38.382	46.840	0.00	0.00
ATOM	3454	CA	PRO	X	228	32.519	36.533	46.899	0.00	0.00
ATOM	3455	HA	PRO	X	228	33.387	36.937	47.420	0.00	0.00
ATOM	3456	C	PRO	X	228	32.243	35.141	47.502	0.00	0.00
ATOM	3457	O	PRO	X	228	32.545	34.935	48.731	0.00	0.00
ATOM	3458	N	ASN	X	229	31.722	34.162	46.707	0.00	0.00
ATOM	3459	H	ASN	X	229	31.466	34.321	45.743	0.00	0.00
ATOM	3460	CA	ASN	X	229	31.474	32.836	47.184	0.00	0.00
ATOM	3461	HA	ASN	X	229	31.268	32.803	48.254	0.00	0.00
ATOM	3462	CB	ASN	X	229	30.319	32.159	46.483	0.00	0.00
ATOM	3463	HB2	ASN	X	229	30.182	31.160	46.899	0.00	0.00
ATOM	3464	HB3	ASN	X	229	29.402	32.741	46.573	0.00	0.00
ATOM	3465	CG	ASN	X	229	30.628	32.055	45.000	0.00	0.00
ATOM	3466	OD1	ASN	X	229	30.692	33.087	44.343	0.00	0.00
ATOM	3467	ND2	ASN	X	229	30.871	30.869	44.393	0.00	0.00
ATOM	3468	HD21	ASN	X	229	31.100	30.915	43.410	0.00	0.00
ATOM	3469	HD22	ASN	X	229	30.899	30.012	44.926	0.00	0.00

ATOM	3470	C	ASN	X	229	32.733	31.992	47.162	0.00	0.00
ATOM	3471	O	ASN	X	229	32.612	30.778	47.417	0.00	0.00
ATOM	3472	N	GLY	X	230	33.955	32.579	47.025	0.00	0.00
ATOM	3473	H	GLY	X	230	34.003	33.553	46.764	0.00	0.00
ATOM	3474	CA	GLY	X	230	35.258	31.899	47.251	0.00	0.00
ATOM	3475	HA2	GLY	X	230	35.296	30.998	46.635	0.00	0.00
ATOM	3476	HA3	GLY	X	230	36.098	32.485	46.862	0.00	0.00
ATOM	3477	C	GLY	X	230	35.434	31.639	48.749	0.00	0.00
ATOM	3478	O	GLY	X	230	35.017	32.518	49.539	0.00	0.00
ATOM	3479	N	PRO	X	231	36.183	30.574	49.187	0.00	0.00
ATOM	3480	CD	PRO	X	231	36.852	29.565	48.348	0.00	0.00
ATOM	3481	HD2	PRO	X	231	37.524	30.109	47.685	0.00	0.00
ATOM	3482	HD3	PRO	X	231	36.111	29.022	47.761	0.00	0.00
ATOM	3483	CG	PRO	X	231	37.679	28.697	49.268	0.00	0.00
ATOM	3484	HG2	PRO	X	231	38.671	29.112	49.444	0.00	0.00
ATOM	3485	HG3	PRO	X	231	37.871	27.725	48.813	0.00	0.00
ATOM	3486	CB	PRO	X	231	36.922	28.828	50.605	0.00	0.00
ATOM	3487	HB2	PRO	X	231	37.472	28.620	51.522	0.00	0.00
ATOM	3488	HB3	PRO	X	231	36.208	28.006	50.551	0.00	0.00
ATOM	3489	CA	PRO	X	231	36.252	30.210	50.636	0.00	0.00
ATOM	3490	HA	PRO	X	231	35.248	30.164	51.057	0.00	0.00
ATOM	3491	C	PRO	X	231	37.019	31.220	51.461	0.00	0.00
ATOM	3492	O	PRO	X	231	36.772	31.232	52.649	0.00	0.00
ATOM	3493	N	TRP	X	232	37.779	32.111	50.882	0.00	0.00
ATOM	3494	H	TRP	X	232	37.899	31.963	49.890	0.00	0.00
ATOM	3495	CA	TRP	X	232	38.608	33.172	51.438	0.00	0.00
ATOM	3496	HA	TRP	X	232	38.986	32.981	52.443	0.00	0.00
ATOM	3497	CB	TRP	X	232	39.844	33.358	50.551	0.00	0.00
ATOM	3498	HB2	TRP	X	232	40.297	34.324	50.772	0.00	0.00
ATOM	3499	HB3	TRP	X	232	40.486	32.506	50.777	0.00	0.00
ATOM	3500	CG	TRP	X	232	39.550	33.366	49.068	0.00	0.00
ATOM	3501	CD1	TRP	X	232	39.405	32.302	48.209	0.00	0.00
ATOM	3502	HD1	TRP	X	232	39.443	31.255	48.472	0.00	0.00
ATOM	3503	NE1	TRP	X	232	38.920	32.720	46.997	0.00	0.00
ATOM	3504	HE1	TRP	X	232	38.698	32.091	46.239	0.00	0.00
ATOM	3505	CE2	TRP	X	232	38.994	34.133	46.910	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	38.784	35.086	45.908	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	38.707	34.693	44.905	0.00	0.00
ATOM	3508	CH2	TRP	X	232	38.743	36.478	46.180	0.00	0.00
ATOM	3509	HH2	TRP	X	232	38.644	37.160	45.349	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	39.053	36.910	47.487	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	39.049	37.973	47.676	0.00	0.00
ATOM	3512	CE3	TRP	X	232	39.186	35.885	48.522	0.00	0.00
ATOM	3513	HE3	TRP	X	232	39.530	36.154	49.510	0.00	0.00
ATOM	3514	CD2	TRP	X	232	39.276	34.535	48.251	0.00	0.00
ATOM	3515	C	TRP	X	232	37.934	34.525	51.590	0.00	0.00
ATOM	3516	O	TRP	X	232	38.536	35.382	52.203	0.00	0.00
ATOM	3517	N	ALA	X	233	36.783	34.755	50.915	0.00	0.00
ATOM	3518	H	ALA	X	233	36.316	33.958	50.506	0.00	0.00
ATOM	3519	CA	ALA	X	233	36.197	36.050	50.555	0.00	0.00
ATOM	3520	HA	ALA	X	233	36.916	36.866	50.481	0.00	0.00
ATOM	3521	CB	ALA	X	233	35.789	35.928	49.125	0.00	0.00
ATOM	3522	HB1	ALA	X	233	36.677	36.085	48.514	0.00	0.00
ATOM	3523	HB2	ALA	X	233	35.466	34.939	48.798	0.00	0.00
ATOM	3524	HB3	ALA	X	233	34.989	36.639	48.917	0.00	0.00
ATOM	3525	C	ALA	X	233	35.150	36.505	51.498	0.00	0.00
ATOM	3526	O	ALA	X	233	34.541	37.550	51.308	0.00	0.00
ATOM	3527	N	THR	X	234	34.818	35.712	52.536	0.00	0.00
ATOM	3528	H	THR	X	234	35.217	34.785	52.565	0.00	0.00
ATOM	3529	CA	THR	X	234	34.062	35.965	53.756	0.00	0.00
ATOM	3530	HA	THR	X	234	34.198	36.994	54.090	0.00	0.00
ATOM	3531	CB	THR	X	234	32.545	35.680	53.560	0.00	0.00
ATOM	3532	HB	THR	X	234	32.312	34.776	54.122	0.00	0.00
ATOM	3533	CG2	THR	X	234	31.668	36.729	54.238	0.00	0.00
ATOM	3534	HG21	THR	X	234	30.636	36.394	54.138	0.00	0.00
ATOM	3535	HG22	THR	X	234	31.935	36.914	55.278	0.00	0.00
ATOM	3536	HG23	THR	X	234	31.677	37.710	53.764	0.00	0.00
ATOM	3537	OG1	THR	X	234	32.109	35.621	52.237	0.00	0.00
ATOM	3538	HG1	THR	X	234	32.355	36.353	51.666	0.00	0.00
ATOM	3539	C	THR	X	234	34.567	35.156	54.932	0.00	0.00

ATOM	3540	O	THR	X	234	35.283	34.191	54.693	0.00	0.00
ATOM	3541	N	VAL	X	235	34.215	35.618	56.146	0.00	0.00
ATOM	3542	H	VAL	X	235	34.060	36.613	56.218	0.00	0.00
ATOM	3543	CA	VAL	X	235	34.088	34.855	57.409	0.00	0.00
ATOM	3544	HA	VAL	X	235	34.270	33.798	57.216	0.00	0.00
ATOM	3545	CB	VAL	X	235	35.124	35.430	58.426	0.00	0.00
ATOM	3546	HB	VAL	X	235	36.089	35.568	57.937	0.00	0.00
ATOM	3547	CG1	VAL	X	235	34.802	36.752	59.084	0.00	0.00
ATOM	3548	HG11	VAL	X	235	33.941	36.706	59.750	0.00	0.00
ATOM	3549	HG12	VAL	X	235	35.522	36.955	59.877	0.00	0.00
ATOM	3550	HG13	VAL	X	235	34.815	37.495	58.286	0.00	0.00
ATOM	3551	CG2	VAL	X	235	35.456	34.340	59.459	0.00	0.00
ATOM	3552	HG21	VAL	X	235	36.347	34.651	60.004	0.00	0.00
ATOM	3553	HG22	VAL	X	235	34.727	34.360	60.269	0.00	0.00
ATOM	3554	HG23	VAL	X	235	35.484	33.388	58.929	0.00	0.00
ATOM	3555	C	VAL	X	235	32.688	34.801	58.042	0.00	0.00
ATOM	3556	O	VAL	X	235	31.949	35.829	57.977	0.00	0.00
ATOM	3557	N	GLY	X	236	32.381	33.745	58.739	0.00	0.00
ATOM	3558	H	GLY	X	236	33.044	33.002	58.910	0.00	0.00
ATOM	3559	CA	GLY	X	236	31.155	33.587	59.542	0.00	0.00
ATOM	3560	HA2	GLY	X	236	30.288	34.149	59.154	0.00	0.00
ATOM	3561	HA3	GLY	X	236	30.840	32.547	59.703	0.00	0.00
ATOM	3562	C	GLY	X	236	31.326	34.201	60.951	0.00	0.00
ATOM	3563	O	GLY	X	236	32.440	34.594	61.332	0.00	0.00
ATOM	3564	N	MET	X	237	30.229	34.418	61.744	0.00	0.00
ATOM	3565	H	MET	X	237	29.282	34.279	61.420	0.00	0.00
ATOM	3566	CA	MET	X	237	30.157	34.979	63.032	0.00	0.00
ATOM	3567	HA	MET	X	237	30.582	35.970	62.872	0.00	0.00
ATOM	3568	CB	MET	X	237	28.685	35.107	63.461	0.00	0.00
ATOM	3569	HB2	MET	X	237	28.238	34.122	63.592	0.00	0.00
ATOM	3570	HB3	MET	X	237	28.535	35.558	64.443	0.00	0.00
ATOM	3571	CG	MET	X	237	27.760	35.878	62.516	0.00	0.00
ATOM	3572	HG2	MET	X	237	28.329	36.748	62.189	0.00	0.00
ATOM	3573	HG3	MET	X	237	27.604	35.452	61.524	0.00	0.00
ATOM	3574	SD	MET	X	237	26.232	36.447	63.234	0.00	0.00
ATOM	3575	CE	MET	X	237	25.817	37.991	62.318	0.00	0.00
ATOM	3576	HE1	MET	X	237	26.057	37.819	61.269	0.00	0.00
ATOM	3577	HE2	MET	X	237	24.742	38.104	62.463	0.00	0.00
ATOM	3578	HE3	MET	X	237	26.324	38.876	62.704	0.00	0.00
ATOM	3579	C	MET	X	237	31.126	34.383	64.136	0.00	0.00
ATOM	3580	O	MET	X	237	31.794	35.179	64.856	0.00	0.00
ATOM	3581	N	GLY	X	238	31.077	33.033	64.324	0.00	0.00
ATOM	3582	H	GLY	X	238	30.473	32.525	63.693	0.00	0.00
ATOM	3583	CA	GLY	X	238	31.820	32.182	65.237	0.00	0.00
ATOM	3584	HA2	GLY	X	238	31.467	32.288	66.290	0.00	0.00
ATOM	3585	HA3	GLY	X	238	31.563	31.128	64.952	0.00	0.00
ATOM	3586	C	GLY	X	238	33.295	32.479	65.162	0.00	0.00
ATOM	3587	O	GLY	X	238	33.916	32.767	66.197	0.00	0.00
ATOM	3588	N	GLU	X	239	33.821	32.537	63.917	0.00	0.00
ATOM	3589	H	GLU	X	239	33.208	32.269	63.160	0.00	0.00
ATOM	3590	CA	GLU	X	239	35.266	32.732	63.657	0.00	0.00
ATOM	3591	HA	GLU	X	239	35.790	32.178	64.435	0.00	0.00
ATOM	3592	CB	GLU	X	239	35.660	32.242	62.179	0.00	0.00
ATOM	3593	HB2	GLU	X	239	34.915	32.620	61.479	0.00	0.00
ATOM	3594	HB3	GLU	X	239	36.649	32.629	61.934	0.00	0.00
ATOM	3595	CG	GLU	X	239	35.726	30.701	62.232	0.00	0.00
ATOM	3596	HG2	GLU	X	239	34.799	30.332	62.671	0.00	0.00
ATOM	3597	HG3	GLU	X	239	35.755	30.314	61.213	0.00	0.00
ATOM	3598	CD	GLU	X	239	36.929	30.079	63.043	0.00	0.00
ATOM	3599	OE1	GLU	X	239	38.060	30.489	62.757	0.00	0.00
ATOM	3600	OE2	GLU	X	239	36.771	29.408	64.096	0.00	0.00
ATOM	3601	C	GLU	X	239	35.629	34.237	63.847	0.00	0.00
ATOM	3602	O	GLU	X	239	36.653	34.540	64.434	0.00	0.00
ATOM	3603	N	ALA	X	240	34.752	35.147	63.381	0.00	0.00
ATOM	3604	H	ALA	X	240	33.948	34.871	62.836	0.00	0.00
ATOM	3605	CA	ALA	X	240	34.924	36.561	63.583	0.00	0.00
ATOM	3606	HA	ALA	X	240	35.802	36.931	63.054	0.00	0.00
ATOM	3607	CB	ALA	X	240	33.671	37.347	63.003	0.00	0.00
ATOM	3608	HB1	ALA	X	240	32.710	37.221	63.502	0.00	0.00
ATOM	3609	HB2	ALA	X	240	33.887	38.402	63.171	0.00	0.00

ATOM	3610	HB3	ALA	X	240	33.508	36.968	61.995	0.00	0.00
ATOM	3611	C	ALA	X	240	35.027	36.942	65.097	0.00	0.00
ATOM	3612	O	ALA	X	240	36.059	37.448	65.556	0.00	0.00
ATOM	3613	N	ARG	X	241	34.064	36.476	65.883	0.00	0.00
ATOM	3614	H	ARG	X	241	33.340	35.950	65.414	0.00	0.00
ATOM	3615	CA	ARG	X	241	33.940	36.644	67.311	0.00	0.00
ATOM	3616	HA	ARG	X	241	33.753	37.692	67.545	0.00	0.00
ATOM	3617	CB	ARG	X	241	32.867	35.781	67.846	0.00	0.00
ATOM	3618	HB2	ARG	X	241	31.982	35.815	67.210	0.00	0.00
ATOM	3619	HB3	ARG	X	241	33.136	34.746	68.056	0.00	0.00
ATOM	3620	CG	ARG	X	241	32.412	36.327	69.171	0.00	0.00
ATOM	3621	HG2	ARG	X	241	33.355	36.412	69.711	0.00	0.00
ATOM	3622	HG3	ARG	X	241	32.032	37.347	69.119	0.00	0.00
ATOM	3623	CD	ARG	X	241	31.347	35.464	69.916	0.00	0.00
ATOM	3624	HD2	ARG	X	241	31.756	34.603	70.444	0.00	0.00
ATOM	3625	HD3	ARG	X	241	31.131	36.040	70.816	0.00	0.00
ATOM	3626	NE	ARG	X	241	30.040	35.264	69.259	0.00	0.00
ATOM	3627	HE	ARG	X	241	29.405	36.046	69.339	0.00	0.00
ATOM	3628	CZ	ARG	X	241	29.503	34.178	68.584	0.00	0.00
ATOM	3629	NH1	ARG	X	241	30.326	33.239	68.226	0.00	0.00
ATOM	3630	HH11	ARG	X	241	31.270	33.264	68.583	0.00	0.00
ATOM	3631	HH12	ARG	X	241	30.033	32.543	67.556	0.00	0.00
ATOM	3632	NH2	ARG	X	241	28.197	34.088	68.350	0.00	0.00
ATOM	3633	HH21	ARG	X	241	27.591	34.868	68.561	0.00	0.00
ATOM	3634	HH22	ARG	X	241	27.812	33.205	68.044	0.00	0.00
ATOM	3635	C	ARG	X	241	35.260	36.176	67.946	0.00	0.00
ATOM	3636	O	ARG	X	241	36.010	36.914	68.529	0.00	0.00
ATOM	3637	N	ARG	X	242	35.600	34.928	67.725	0.00	0.00
ATOM	3638	H	ARG	X	242	34.995	34.299	67.216	0.00	0.00
ATOM	3639	CA	ARG	X	242	36.781	34.251	68.172	0.00	0.00
ATOM	3640	HA	ARG	X	242	36.615	34.110	69.240	0.00	0.00
ATOM	3641	CB	ARG	X	242	36.798	32.900	67.510	0.00	0.00
ATOM	3642	HB2	ARG	X	242	35.864	32.350	67.625	0.00	0.00
ATOM	3643	HB3	ARG	X	242	36.902	32.975	66.427	0.00	0.00
ATOM	3644	CG	ARG	X	242	37.873	32.002	68.058	0.00	0.00
ATOM	3645	HG2	ARG	X	242	38.891	32.333	67.855	0.00	0.00
ATOM	3646	HG3	ARG	X	242	37.835	31.995	69.147	0.00	0.00
ATOM	3647	CD	ARG	X	242	37.790	30.556	67.728	0.00	0.00
ATOM	3648	HD2	ARG	X	242	38.258	29.981	68.527	0.00	0.00
ATOM	3649	HD3	ARG	X	242	36.729	30.310	67.706	0.00	0.00
ATOM	3650	NE	ARG	X	242	38.370	30.142	66.425	0.00	0.00
ATOM	3651	HE	ARG	X	242	37.811	30.051	65.588	0.00	0.00
ATOM	3652	CZ	ARG	X	242	39.651	29.911	66.215	0.00	0.00
ATOM	3653	NH1	ARG	X	242	40.648	30.113	67.053	0.00	0.00
ATOM	3654	HH11	ARG	X	242	40.339	30.436	67.959	0.00	0.00
ATOM	3655	HH12	ARG	X	242	41.593	29.801	66.878	0.00	0.00
ATOM	3656	NH2	ARG	X	242	39.943	29.606	64.969	0.00	0.00
ATOM	3657	HH21	ARG	X	242	39.240	29.462	64.259	0.00	0.00
ATOM	3658	HH22	ARG	X	242	40.923	29.403	64.836	0.00	0.00
ATOM	3659	C	ARG	X	242	38.098	35.027	67.827	0.00	0.00
ATOM	3660	O	ARG	X	242	38.898	35.276	68.726	0.00	0.00
ATOM	3661	N	ARG	X	243	38.271	35.423	66.565	0.00	0.00
ATOM	3662	H	ARG	X	243	37.506	35.335	65.912	0.00	0.00
ATOM	3663	CA	ARG	X	243	39.445	36.098	66.014	0.00	0.00
ATOM	3664	HA	ARG	X	243	40.321	35.485	66.225	0.00	0.00
ATOM	3665	CB	ARG	X	243	39.315	36.239	64.503	0.00	0.00
ATOM	3666	HB2	ARG	X	243	38.832	35.313	64.193	0.00	0.00
ATOM	3667	HB3	ARG	X	243	38.626	37.056	64.292	0.00	0.00
ATOM	3668	CG	ARG	X	243	40.715	36.325	63.879	0.00	0.00
ATOM	3669	HG2	ARG	X	243	41.196	37.221	64.271	0.00	0.00
ATOM	3670	HG3	ARG	X	243	41.326	35.447	64.088	0.00	0.00
ATOM	3671	CD	ARG	X	243	40.528	36.517	62.367	0.00	0.00
ATOM	3672	HD2	ARG	X	243	39.958	37.400	62.078	0.00	0.00
ATOM	3673	HD3	ARG	X	243	41.529	36.720	61.987	0.00	0.00
ATOM	3674	NE	ARG	X	243	39.938	35.334	61.734	0.00	0.00
ATOM	3675	HE	ARG	X	243	39.708	34.652	62.442	0.00	0.00
ATOM	3676	CZ	ARG	X	243	39.721	35.084	60.426	0.00	0.00
ATOM	3677	NH1	ARG	X	243	39.999	35.893	59.471	0.00	0.00
ATOM	3678	HH11	ARG	X	243	40.431	36.781	59.680	0.00	0.00
ATOM	3679	HH12	ARG	X	243	39.933	35.545	58.526	0.00	0.00

ATOM	3680	NH2	ARG	X	243	39.109	33.957	60.118	0.00	0.00
ATOM	3681	HH21	ARG	X	243	39.046	33.152	60.726	0.00	0.00
ATOM	3682	HH22	ARG	X	243	38.780	33.847	59.169	0.00	0.00
ATOM	3683	C	ARG	X	243	39.786	37.437	66.654	0.00	0.00
ATOM	3684	O	ARG	X	243	40.878	37.724	67.027	0.00	0.00
ATOM	3685	N	ALA	X	244	38.720	38.243	66.888	0.00	0.00
ATOM	3686	H	ALA	X	244	37.785	37.889	66.741	0.00	0.00
ATOM	3687	CA	ALA	X	244	38.754	39.471	67.656	0.00	0.00
ATOM	3688	HA	ALA	X	244	39.551	40.038	67.176	0.00	0.00
ATOM	3689	CB	ALA	X	244	37.422	40.186	67.518	0.00	0.00
ATOM	3690	HB1	ALA	X	244	37.358	40.369	66.446	0.00	0.00
ATOM	3691	HB2	ALA	X	244	36.571	39.559	67.784	0.00	0.00
ATOM	3692	HB3	ALA	X	244	37.400	41.081	68.139	0.00	0.00
ATOM	3693	C	ALA	X	244	39.094	39.205	69.145	0.00	0.00
ATOM	3694	O	ALA	X	244	39.795	39.958	69.779	0.00	0.00
ATOM	3695	N	THR	X	245	38.572	38.149	69.792	0.00	0.00
ATOM	3696	H	THR	X	245	37.914	37.544	69.320	0.00	0.00
ATOM	3697	CA	THR	X	245	38.972	37.742	71.167	0.00	0.00
ATOM	3698	HA	THR	X	245	38.768	38.624	71.775	0.00	0.00
ATOM	3699	CB	THR	X	245	38.014	36.631	71.620	0.00	0.00
ATOM	3700	HB	THR	X	245	37.945	35.773	70.951	0.00	0.00
ATOM	3701	CG2	THR	X	245	38.480	35.922	72.871	0.00	0.00
ATOM	3702	HG21	THR	X	245	37.665	35.230	73.080	0.00	0.00
ATOM	3703	HG22	THR	X	245	39.404	35.371	72.700	0.00	0.00
ATOM	3704	HG23	THR	X	245	38.677	36.656	73.652	0.00	0.00
ATOM	3705	OG1	THR	X	245	36.736	37.141	71.845	0.00	0.00
ATOM	3706	HG1	THR	X	245	36.123	36.549	71.402	0.00	0.00
ATOM	3707	C	THR	X	245	40.498	37.399	71.218	0.00	0.00
ATOM	3708	O	THR	X	245	41.183	37.976	72.073	0.00	0.00
ATOM	3709	N	GLN	X	246	41.011	36.639	70.284	0.00	0.00
ATOM	3710	H	GLN	X	246	40.486	36.293	69.494	0.00	0.00
ATOM	3711	CA	GLN	X	246	42.463	36.466	70.225	0.00	0.00
ATOM	3712	HA	GLN	X	246	42.627	35.939	71.165	0.00	0.00
ATOM	3713	CB	GLN	X	246	42.855	35.690	68.972	0.00	0.00
ATOM	3714	HB2	GLN	X	246	42.498	36.171	68.062	0.00	0.00
ATOM	3715	HB3	GLN	X	246	43.936	35.611	68.860	0.00	0.00
ATOM	3716	CG	GLN	X	246	42.389	34.236	69.168	0.00	0.00
ATOM	3717	HG2	GLN	X	246	42.691	33.808	70.124	0.00	0.00
ATOM	3718	HG3	GLN	X	246	41.308	34.216	69.300	0.00	0.00
ATOM	3719	CD	GLN	X	246	42.704	33.292	68.036	0.00	0.00
ATOM	3720	OE1	GLN	X	246	42.080	33.371	66.939	0.00	0.00
ATOM	3721	NE2	GLN	X	246	43.654	32.432	68.178	0.00	0.00
ATOM	3722	HE21	GLN	X	246	43.754	31.759	67.432	0.00	0.00
ATOM	3723	HE22	GLN	X	246	44.208	32.400	69.022	0.00	0.00
ATOM	3724	C	GLN	X	246	43.214	37.869	70.142	0.00	0.00
ATOM	3725	O	GLN	X	246	44.282	38.057	70.761	0.00	0.00
ATOM	3726	N	LEU	X	247	42.723	38.764	69.341	0.00	0.00
ATOM	3727	H	LEU	X	247	41.858	38.644	68.835	0.00	0.00
ATOM	3728	CA	LEU	X	247	43.376	40.044	69.050	0.00	0.00
ATOM	3729	HA	LEU	X	247	44.422	39.798	68.864	0.00	0.00
ATOM	3730	CB	LEU	X	247	42.788	40.673	67.777	0.00	0.00
ATOM	3731	HB2	LEU	X	247	42.616	39.857	67.074	0.00	0.00
ATOM	3732	HB3	LEU	X	247	41.818	41.103	68.027	0.00	0.00
ATOM	3733	CG	LEU	X	247	43.627	41.768	67.123	0.00	0.00
ATOM	3734	HG	LEU	X	247	43.731	42.495	67.929	0.00	0.00
ATOM	3735	CD1	LEU	X	247	44.973	41.321	66.616	0.00	0.00
ATOM	3736	HD11	LEU	X	247	45.647	42.156	66.425	0.00	0.00
ATOM	3737	HD12	LEU	X	247	45.485	40.716	67.364	0.00	0.00
ATOM	3738	HD13	LEU	X	247	44.818	40.611	65.803	0.00	0.00
ATOM	3739	CD2	LEU	X	247	42.779	42.438	66.077	0.00	0.00
ATOM	3740	HD21	LEU	X	247	41.931	43.010	66.454	0.00	0.00
ATOM	3741	HD22	LEU	X	247	43.406	43.122	65.504	0.00	0.00
ATOM	3742	HD23	LEU	X	247	42.461	41.685	65.357	0.00	0.00
ATOM	3743	C	LEU	X	247	43.360	40.995	70.269	0.00	0.00
ATOM	3744	O	LEU	X	247	44.396	41.407	70.684	0.00	0.00
ATOM	3745	N	ALA	X	248	42.199	41.285	70.882	0.00	0.00
ATOM	3746	H	ALA	X	248	41.348	40.920	70.480	0.00	0.00
ATOM	3747	CA	ALA	X	248	42.145	41.860	72.169	0.00	0.00
ATOM	3748	HA	ALA	X	248	42.439	42.892	71.978	0.00	0.00
ATOM	3749	CB	ALA	X	248	40.677	41.733	72.633	0.00	0.00

ATOM	3750	HB1	ALA	X	248	40.360	40.699	72.776	0.00	0.00
ATOM	3751	HB2	ALA	X	248	40.515	42.228	73.590	0.00	0.00
ATOM	3752	HB3	ALA	X	248	40.101	42.322	71.920	0.00	0.00
ATOM	3753	C	ALA	X	248	43.132	41.264	73.109	0.00	0.00
ATOM	3754	O	ALA	X	248	43.940	42.027	73.711	0.00	0.00
ATOM	3755	N	HIE	X	249	43.095	39.998	73.394	0.00	0.00
ATOM	3756	H	HIE	X	249	42.515	39.334	72.901	0.00	0.00
ATOM	3757	CA	HIE	X	249	44.142	39.479	74.274	0.00	0.00
ATOM	3758	HA	HIE	X	249	43.801	39.768	75.268	0.00	0.00
ATOM	3759	CB	HIE	X	249	44.034	37.963	74.115	0.00	0.00
ATOM	3760	HB2	HIE	X	249	42.978	37.695	74.107	0.00	0.00
ATOM	3761	HB3	HIE	X	249	44.446	37.735	73.132	0.00	0.00
ATOM	3762	CG	HIE	X	249	44.782	37.120	75.149	0.00	0.00
ATOM	3763	ND1	HIE	X	249	46.130	37.192	75.431	0.00	0.00
ATOM	3764	CE1	HIE	X	249	46.306	36.482	76.522	0.00	0.00
ATOM	3765	HE1	HIE	X	249	47.175	36.434	77.162	0.00	0.00
ATOM	3766	NE2	HIE	X	249	45.219	35.788	76.883	0.00	0.00
ATOM	3767	HE2	HIE	X	249	45.127	35.258	77.738	0.00	0.00
ATOM	3768	CD2	HIE	X	249	44.219	36.159	75.990	0.00	0.00
ATOM	3769	HD2	HIE	X	249	43.164	35.925	76.000	0.00	0.00
ATOM	3770	C	HIE	X	249	45.626	39.837	73.903	0.00	0.00
ATOM	3771	O	HIE	X	249	46.316	40.285	74.856	0.00	0.00
ATOM	3772	N	LEU	X	250	46.071	39.828	72.595	0.00	0.00
ATOM	3773	H	LEU	X	250	45.350	39.514	71.961	0.00	0.00
ATOM	3774	CA	LEU	X	250	47.446	40.115	72.039	0.00	0.00
ATOM	3775	HA	LEU	X	250	48.178	39.523	72.589	0.00	0.00
ATOM	3776	CB	LEU	X	250	47.371	39.733	70.537	0.00	0.00
ATOM	3777	HB2	LEU	X	250	46.407	40.013	70.113	0.00	0.00
ATOM	3778	HB3	LEU	X	250	48.109	40.368	70.047	0.00	0.00
ATOM	3779	CG	LEU	X	250	47.740	38.282	70.270	0.00	0.00
ATOM	3780	HG	LEU	X	250	47.113	37.596	70.840	0.00	0.00
ATOM	3781	CD1	LEU	X	250	47.484	37.886	68.872	0.00	0.00
ATOM	3782	HD11	LEU	X	250	48.344	38.292	68.338	0.00	0.00
ATOM	3783	HD12	LEU	X	250	47.472	36.798	68.821	0.00	0.00
ATOM	3784	HD13	LEU	X	250	46.518	38.228	68.501	0.00	0.00
ATOM	3785	CD2	LEU	X	250	49.175	37.914	70.801	0.00	0.00
ATOM	3786	HD21	LEU	X	250	49.264	36.869	70.502	0.00	0.00
ATOM	3787	HD22	LEU	X	250	49.832	38.591	70.256	0.00	0.00
ATOM	3788	HD23	LEU	X	250	49.295	37.999	71.881	0.00	0.00
ATOM	3789	C	LEU	X	250	47.685	41.625	72.198	0.00	0.00
ATOM	3790	O	LEU	X	250	48.759	42.004	72.709	0.00	0.00
ATOM	3791	N	VAL	X	251	46.670	42.493	71.855	0.00	0.00
ATOM	3792	H	VAL	X	251	45.917	42.037	71.359	0.00	0.00
ATOM	3793	CA	VAL	X	251	46.687	44.011	72.000	0.00	0.00
ATOM	3794	HA	VAL	X	251	47.702	44.280	71.708	0.00	0.00
ATOM	3795	CB	VAL	X	251	45.692	44.707	71.037	0.00	0.00
ATOM	3796	HB	VAL	X	251	44.665	44.461	71.305	0.00	0.00
ATOM	3797	CG1	VAL	X	251	45.801	46.256	70.978	0.00	0.00
ATOM	3798	HG11	VAL	X	251	45.303	46.756	71.809	0.00	0.00
ATOM	3799	HG12	VAL	X	251	46.843	46.573	70.966	0.00	0.00
ATOM	3800	HG13	VAL	X	251	45.185	46.660	70.174	0.00	0.00
ATOM	3801	CG2	VAL	X	251	45.926	44.290	69.581	0.00	0.00
ATOM	3802	HG21	VAL	X	251	46.933	44.603	69.307	0.00	0.00
ATOM	3803	HG22	VAL	X	251	45.813	43.208	69.505	0.00	0.00
ATOM	3804	HG23	VAL	X	251	45.180	44.681	68.890	0.00	0.00
ATOM	3805	C	VAL	X	251	46.615	44.419	73.471	0.00	0.00
ATOM	3806	O	VAL	X	251	46.927	45.594	73.670	0.00	0.00
ATOM	3807	N	GLY	X	252	46.300	43.595	74.472	0.00	0.00
ATOM	3808	H	GLY	X	252	46.161	42.654	74.130	0.00	0.00
ATOM	3809	CA	GLY	X	252	46.234	43.775	75.946	0.00	0.00
ATOM	3810	HA2	GLY	X	252	46.315	42.896	76.523	0.00	0.00
ATOM	3811	HA3	GLY	X	252	46.996	44.515	76.233	0.00	0.00
ATOM	3812	C	GLY	X	252	44.934	44.402	76.381	0.00	0.00
ATOM	3813	O	GLY	X	252	44.932	45.027	77.454	0.00	0.00
ATOM	3814	N	CYX	X	253	43.891	44.130	75.655	0.00	0.00
ATOM	3815	H	CYX	X	253	44.018	43.648	74.777	0.00	0.00
ATOM	3816	CA	CYX	X	253	42.515	44.580	75.930	0.00	0.00
ATOM	3817	HA	CYX	X	253	42.560	45.397	76.650	0.00	0.00
ATOM	3818	CB	CYX	X	253	41.898	45.071	74.571	0.00	0.00
ATOM	3819	HB2	CYX	X	253	42.312	44.437	73.787	0.00	0.00

ATOM	3820	HB3	CYX	X	253	40.816	45.206	74.559	0.00	0.00
ATOM	3821	SG	CYX	X	253	42.468	46.739	74.159	0.00	0.00
ATOM	3822	C	CYX	X	253	41.566	43.553	76.520	0.00	0.00
ATOM	3823	O	CYX	X	253	41.529	42.371	76.085	0.00	0.00
ATOM	3824	N	PRO	X	254	40.646	44.030	77.427	0.00	0.00
ATOM	3825	CD	PRO	X	254	39.593	43.109	77.773	0.00	0.00
ATOM	3826	HD2	PRO	X	254	40.023	42.146	78.049	0.00	0.00
ATOM	3827	HD3	PRO	X	254	38.895	43.011	76.942	0.00	0.00
ATOM	3828	CG	PRO	X	254	38.894	43.659	79.024	0.00	0.00
ATOM	3829	HG2	PRO	X	254	39.446	43.419	79.933	0.00	0.00
ATOM	3830	HG3	PRO	X	254	37.890	43.258	79.167	0.00	0.00
ATOM	3831	CB	PRO	X	254	39.032	45.118	78.637	0.00	0.00
ATOM	3832	HB2	PRO	X	254	38.863	45.682	79.554	0.00	0.00
ATOM	3833	HB3	PRO	X	254	38.312	45.452	77.889	0.00	0.00
ATOM	3834	CA	PRO	X	254	40.424	45.263	78.080	0.00	0.00
ATOM	3835	HA	PRO	X	254	40.524	46.096	77.385	0.00	0.00
ATOM	3836	C	PRO	X	254	41.509	45.482	79.215	0.00	0.00
ATOM	3837	O	PRO	X	254	42.203	44.450	79.560	0.00	0.00
ATOM	3838	N	PRO	X	255	41.688	46.622	79.806	0.00	0.00
ATOM	3839	CD	PRO	X	255	40.858	47.863	79.673	0.00	0.00
ATOM	3840	HD2	PRO	X	255	39.777	47.727	79.639	0.00	0.00
ATOM	3841	HD3	PRO	X	255	41.181	48.402	78.783	0.00	0.00
ATOM	3842	CG	PRO	X	255	41.376	48.746	80.888	0.00	0.00
ATOM	3843	HG2	PRO	X	255	40.887	48.501	81.831	0.00	0.00
ATOM	3844	HG3	PRO	X	255	41.293	49.818	80.711	0.00	0.00
ATOM	3845	CB	PRO	X	255	42.766	48.263	81.209	0.00	0.00
ATOM	3846	HB2	PRO	X	255	43.151	48.517	82.196	0.00	0.00
ATOM	3847	HB3	PRO	X	255	43.475	48.612	80.458	0.00	0.00
ATOM	3848	CA	PRO	X	255	42.658	46.783	80.930	0.00	0.00
ATOM	3849	HA	PRO	X	255	43.639	46.602	80.491	0.00	0.00
ATOM	3850	C	PRO	X	255	42.240	45.903	82.132	0.00	0.00
ATOM	3851	O	PRO	X	255	41.062	45.634	82.331	0.00	0.00
ATOM	3852	N	GLY	X	256	43.266	45.442	82.879	0.00	0.00
ATOM	3853	H	GLY	X	256	44.215	45.756	82.733	0.00	0.00
ATOM	3854	CA	GLY	X	256	43.087	44.684	84.129	0.00	0.00
ATOM	3855	HA2	GLY	X	256	44.021	44.632	84.746	0.00	0.00
ATOM	3856	HA3	GLY	X	256	42.347	45.311	84.770	0.00	0.00
ATOM	3857	C	GLY	X	256	42.666	43.280	83.809	0.00	0.00
ATOM	3858	O	GLY	X	256	42.236	42.540	84.748	0.00	0.00
ATOM	3859	N	GLY	X	257	42.695	42.875	82.573	0.00	0.00
ATOM	3860	H	GLY	X	257	42.831	43.550	81.834	0.00	0.00
ATOM	3861	CA	GLY	X	257	42.132	41.582	81.975	0.00	0.00
ATOM	3862	HA2	GLY	X	257	42.427	40.801	82.627	0.00	0.00
ATOM	3863	HA3	GLY	X	257	41.099	41.522	81.897	0.00	0.00
ATOM	3864	C	GLY	X	257	42.631	41.292	80.544	0.00	0.00
ATOM	3865	O	GLY	X	257	43.603	41.946	80.038	0.00	0.00
ATOM	3866	N	THR	X	258	42.001	40.348	79.869	0.00	0.00
ATOM	3867	H	THR	X	258	41.428	39.740	80.437	0.00	0.00
ATOM	3868	CA	THR	X	258	42.388	39.950	78.508	0.00	0.00
ATOM	3869	HA	THR	X	258	42.545	40.829	77.882	0.00	0.00
ATOM	3870	CB	THR	X	258	43.587	38.993	78.442	0.00	0.00
ATOM	3871	HB	THR	X	258	43.698	38.601	77.431	0.00	0.00
ATOM	3872	CG2	THR	X	258	44.895	39.669	78.749	0.00	0.00
ATOM	3873	HG21	THR	X	258	45.635	39.150	78.140	0.00	0.00
ATOM	3874	HG22	THR	X	258	44.783	40.680	78.357	0.00	0.00
ATOM	3875	HG23	THR	X	258	45.153	39.572	79.804	0.00	0.00
ATOM	3876	OG1	THR	X	258	43.393	37.943	79.335	0.00	0.00
ATOM	3877	HG1	THR	X	258	42.465	37.711	79.266	0.00	0.00
ATOM	3878	C	THR	X	258	41.175	39.239	77.894	0.00	0.00
ATOM	3879	O	THR	X	258	40.877	38.114	78.304	0.00	0.00
ATOM	3880	N	GLY	X	259	40.464	39.718	76.955	0.00	0.00
ATOM	3881	H	GLY	X	259	40.836	40.576	76.572	0.00	0.00
ATOM	3882	CA	GLY	X	259	39.202	39.193	76.466	0.00	0.00
ATOM	3883	HA2	GLY	X	259	38.916	39.857	75.630	0.00	0.00
ATOM	3884	HA3	GLY	X	259	39.301	38.145	76.092	0.00	0.00
ATOM	3885	C	GLY	X	259	38.133	39.208	77.545	0.00	0.00
ATOM	3886	O	GLY	X	259	38.293	39.487	78.736	0.00	0.00
ATOM	3887	N	GLY	X	260	36.943	38.714	77.093	0.00	0.00
ATOM	3888	H	GLY	X	260	36.675	38.604	76.125	0.00	0.00
ATOM	3889	CA	GLY	X	260	35.864	38.635	78.002	0.00	0.00

ATOM	3890	HA2	GLY	X	260	35.362	37.709	77.666	0.00	0.00
ATOM	3891	HA3	GLY	X	260	36.059	38.598	79.046	0.00	0.00
ATOM	3892	C	GLY	X	260	34.957	39.804	77.709	0.00	0.00
ATOM	3893	O	GLY	X	260	34.417	39.759	76.626	0.00	0.00
ATOM	3894	N	ASN	X	261	34.730	40.739	78.623	0.00	0.00
ATOM	3895	H	ASN	X	261	35.244	40.673	79.490	0.00	0.00
ATOM	3896	CA	ASN	X	261	33.552	41.653	78.561	0.00	0.00
ATOM	3897	HA	ASN	X	261	32.698	40.975	78.550	0.00	0.00
ATOM	3898	CB	ASN	X	261	33.343	42.481	79.907	0.00	0.00
ATOM	3899	HB2	ASN	X	261	33.197	41.844	80.779	0.00	0.00
ATOM	3900	HB3	ASN	X	261	34.244	43.077	80.050	0.00	0.00
ATOM	3901	CG	ASN	X	261	32.143	43.461	79.727	0.00	0.00
ATOM	3902	OD1	ASN	X	261	32.304	44.603	79.433	0.00	0.00
ATOM	3903	ND2	ASN	X	261	30.915	43.107	79.721	0.00	0.00
ATOM	3904	HD21	ASN	X	261	30.271	43.832	79.440	0.00	0.00
ATOM	3905	HD22	ASN	X	261	30.655	42.141	79.865	0.00	0.00
ATOM	3906	C	ASN	X	261	33.590	42.614	77.347	0.00	0.00
ATOM	3907	O	ASN	X	261	34.510	43.402	77.184	0.00	0.00
ATOM	3908	N	ASP	X	262	32.634	42.536	76.426	0.00	0.00
ATOM	3909	H	ASP	X	262	31.951	41.807	76.574	0.00	0.00
ATOM	3910	CA	ASP	X	262	32.646	43.218	75.162	0.00	0.00
ATOM	3911	HA	ASP	X	262	33.604	42.904	74.748	0.00	0.00
ATOM	3912	CB	ASP	X	262	31.507	42.853	74.241	0.00	0.00
ATOM	3913	HB2	ASP	X	262	30.625	43.303	74.697	0.00	0.00
ATOM	3914	HB3	ASP	X	262	31.563	43.320	73.258	0.00	0.00
ATOM	3915	CG	ASP	X	262	31.348	41.345	74.102	0.00	0.00
ATOM	3916	OD1	ASP	X	262	30.910	40.810	75.163	0.00	0.00
ATOM	3917	OD2	ASP	X	262	31.610	40.758	73.049	0.00	0.00
ATOM	3918	C	ASP	X	262	32.750	44.768	75.305	0.00	0.00
ATOM	3919	O	ASP	X	262	33.461	45.429	74.570	0.00	0.00
ATOM	3920	N	THR	X	263	31.987	45.334	76.213	0.00	0.00
ATOM	3921	H	THR	X	263	31.437	44.643	76.705	0.00	0.00
ATOM	3922	CA	THR	X	263	31.832	46.786	76.391	0.00	0.00
ATOM	3923	HA	THR	X	263	31.569	47.257	75.443	0.00	0.00
ATOM	3924	CB	THR	X	263	30.710	47.003	77.385	0.00	0.00
ATOM	3925	HB	THR	X	263	30.928	46.648	78.392	0.00	0.00
ATOM	3926	CG2	THR	X	263	30.362	48.483	77.406	0.00	0.00
ATOM	3927	HG21	THR	X	263	31.177	49.019	77.892	0.00	0.00
ATOM	3928	HG22	THR	X	263	30.281	48.823	76.373	0.00	0.00
ATOM	3929	HG23	THR	X	263	29.389	48.601	77.883	0.00	0.00
ATOM	3930	OG1	THR	X	263	29.576	46.348	76.803	0.00	0.00
ATOM	3931	HG1	THR	X	263	29.217	46.926	76.127	0.00	0.00
ATOM	3932	C	THR	X	263	33.143	47.488	76.693	0.00	0.00
ATOM	3933	O	THR	X	263	33.554	48.397	75.986	0.00	0.00
ATOM	3934	N	GLU	X	264	33.919	46.935	77.619	0.00	0.00
ATOM	3935	H	GLU	X	264	33.455	46.282	78.234	0.00	0.00
ATOM	3936	CA	GLU	X	264	35.251	47.360	77.820	0.00	0.00
ATOM	3937	HA	GLU	X	264	35.324	48.446	77.879	0.00	0.00
ATOM	3938	CB	GLU	X	264	35.752	46.860	79.205	0.00	0.00
ATOM	3939	HB2	GLU	X	264	35.684	45.773	79.229	0.00	0.00
ATOM	3940	HB3	GLU	X	264	36.792	47.106	79.421	0.00	0.00
ATOM	3941	CG	GLU	X	264	34.926	47.473	80.341	0.00	0.00
ATOM	3942	HG2	GLU	X	264	33.962	46.964	80.372	0.00	0.00
ATOM	3943	HG3	GLU	X	264	35.308	47.060	81.275	0.00	0.00
ATOM	3944	CD	GLU	X	264	34.870	49.016	80.276	0.00	0.00
ATOM	3945	OE1	GLU	X	264	33.708	49.584	80.240	0.00	0.00
ATOM	3946	OE2	GLU	X	264	35.954	49.619	80.193	0.00	0.00
ATOM	3947	C	GLU	X	264	36.271	46.877	76.737	0.00	0.00
ATOM	3948	O	GLU	X	264	37.244	47.590	76.434	0.00	0.00
ATOM	3949	N	LEU	X	265	36.160	45.652	76.179	0.00	0.00
ATOM	3950	H	LEU	X	265	35.461	45.042	76.579	0.00	0.00
ATOM	3951	CA	LEU	X	265	36.998	45.072	75.197	0.00	0.00
ATOM	3952	HA	LEU	X	265	38.019	45.107	75.578	0.00	0.00
ATOM	3953	CB	LEU	X	265	36.546	43.572	74.984	0.00	0.00
ATOM	3954	HB2	LEU	X	265	36.342	43.085	75.937	0.00	0.00
ATOM	3955	HB3	LEU	X	265	35.605	43.596	74.435	0.00	0.00
ATOM	3956	CG	LEU	X	265	37.396	42.679	74.075	0.00	0.00
ATOM	3957	HG	LEU	X	265	38.394	42.826	74.488	0.00	0.00
ATOM	3958	CD1	LEU	X	265	36.977	41.145	74.208	0.00	0.00
ATOM	3959	HD11	LEU	X	265	36.955	40.896	75.269	0.00	0.00

ATOM	3960	HD12	LEU	X	265	36.004	41.024	73.733	0.00	0.00
ATOM	3961	HD13	LEU	X	265	37.688	40.503	73.687	0.00	0.00
ATOM	3962	CD2	LEU	X	265	37.387	43.159	72.614	0.00	0.00
ATOM	3963	HD21	LEU	X	265	36.368	43.382	72.297	0.00	0.00
ATOM	3964	HD22	LEU	X	265	38.057	44.007	72.473	0.00	0.00
ATOM	3965	HD23	LEU	X	265	37.881	42.418	71.985	0.00	0.00
ATOM	3966	C	LEU	X	265	37.072	45.912	73.932	0.00	0.00
ATOM	3967	O	LEU	X	265	38.175	46.306	73.449	0.00	0.00
ATOM	3968	N	VAL	X	266	35.875	46.382	73.537	0.00	0.00
ATOM	3969	H	VAL	X	266	35.063	45.948	73.952	0.00	0.00
ATOM	3970	CA	VAL	X	266	35.668	47.277	72.390	0.00	0.00
ATOM	3971	HA	VAL	X	266	36.283	46.913	71.567	0.00	0.00
ATOM	3972	CB	VAL	X	266	34.180	47.008	71.912	0.00	0.00
ATOM	3973	HB	VAL	X	266	33.431	47.155	72.690	0.00	0.00
ATOM	3974	CG1	VAL	X	266	33.946	47.854	70.676	0.00	0.00
ATOM	3975	HG11	VAL	X	266	32.912	47.839	70.330	0.00	0.00
ATOM	3976	HG12	VAL	X	266	34.067	48.887	71.003	0.00	0.00
ATOM	3977	HG13	VAL	X	266	34.622	47.617	69.855	0.00	0.00
ATOM	3978	CG2	VAL	X	266	33.959	45.602	71.515	0.00	0.00
ATOM	3979	HG21	VAL	X	266	34.740	45.407	70.780	0.00	0.00
ATOM	3980	HG22	VAL	X	266	34.057	44.928	72.366	0.00	0.00
ATOM	3981	HG23	VAL	X	266	33.010	45.489	70.993	0.00	0.00
ATOM	3982	C	VAL	X	266	36.024	48.713	72.756	0.00	0.00
ATOM	3983	O	VAL	X	266	36.698	49.304	71.972	0.00	0.00
ATOM	3984	N	ALA	X	267	35.802	49.279	73.925	0.00	0.00
ATOM	3985	H	ALA	X	267	35.306	48.730	74.612	0.00	0.00
ATOM	3986	CA	ALA	X	267	36.366	50.583	74.419	0.00	0.00
ATOM	3987	HA	ALA	X	267	35.968	51.364	73.772	0.00	0.00
ATOM	3988	CB	ALA	X	267	35.885	50.704	75.822	0.00	0.00
ATOM	3989	HB1	ALA	X	267	36.303	49.928	76.463	0.00	0.00
ATOM	3990	HB2	ALA	X	267	36.229	51.631	76.281	0.00	0.00
ATOM	3991	HB3	ALA	X	267	34.797	50.655	75.786	0.00	0.00
ATOM	3992	C	ALA	X	267	37.853	50.651	74.233	0.00	0.00
ATOM	3993	O	ALA	X	267	38.341	51.596	73.582	0.00	0.00
ATOM	3994	N	CYX	X	268	38.600	49.654	74.755	0.00	0.00
ATOM	3995	H	CYX	X	268	38.151	48.917	75.280	0.00	0.00
ATOM	3996	CA	CYX	X	268	39.990	49.429	74.598	0.00	0.00
ATOM	3997	HA	CYX	X	268	40.550	50.237	75.067	0.00	0.00
ATOM	3998	CB	CYX	X	268	40.346	48.214	75.503	0.00	0.00
ATOM	3999	HB2	CYX	X	268	40.011	48.429	76.518	0.00	0.00
ATOM	4000	HB3	CYX	X	268	39.847	47.325	75.117	0.00	0.00
ATOM	4001	SG	CYX	X	268	42.092	47.962	75.648	0.00	0.00
ATOM	4002	C	CYX	X	268	40.426	49.203	73.139	0.00	0.00
ATOM	4003	O	CYX	X	268	41.355	49.937	72.658	0.00	0.00
ATOM	4004	N	LEU	X	269	39.748	48.309	72.372	0.00	0.00
ATOM	4005	H	LEU	X	269	39.102	47.671	72.815	0.00	0.00
ATOM	4006	CA	LEU	X	269	40.163	48.032	70.983	0.00	0.00
ATOM	4007	HA	LEU	X	269	41.246	47.922	71.035	0.00	0.00
ATOM	4008	CB	LEU	X	269	39.463	46.708	70.600	0.00	0.00
ATOM	4009	HB2	LEU	X	269	39.384	46.014	71.437	0.00	0.00
ATOM	4010	HB3	LEU	X	269	38.394	46.821	70.424	0.00	0.00
ATOM	4011	CG	LEU	X	269	40.024	45.796	69.511	0.00	0.00
ATOM	4012	HG	LEU	X	269	40.011	46.258	68.523	0.00	0.00
ATOM	4013	CD1	LEU	X	269	41.489	45.305	69.857	0.00	0.00
ATOM	4014	HD11	LEU	X	269	42.174	46.148	69.767	0.00	0.00
ATOM	4015	HD12	LEU	X	269	41.537	44.942	70.883	0.00	0.00
ATOM	4016	HD13	LEU	X	269	41.676	44.460	69.195	0.00	0.00
ATOM	4017	CD2	LEU	X	269	39.162	44.548	69.429	0.00	0.00
ATOM	4018	HD21	LEU	X	269	38.093	44.762	69.435	0.00	0.00
ATOM	4019	HD22	LEU	X	269	39.423	44.098	68.471	0.00	0.00
ATOM	4020	HD23	LEU	X	269	39.325	43.909	70.297	0.00	0.00
ATOM	4021	C	LEU	X	269	39.963	49.188	70.027	0.00	0.00
ATOM	4022	O	LEU	X	269	40.651	49.237	68.950	0.00	0.00
ATOM	4023	N	ARG	X	270	39.153	50.203	70.361	0.00	0.00
ATOM	4024	H	ARG	X	270	38.551	50.117	71.168	0.00	0.00
ATOM	4025	CA	ARG	X	270	38.884	51.426	69.635	0.00	0.00
ATOM	4026	HA	ARG	X	270	39.076	51.285	68.571	0.00	0.00
ATOM	4027	CB	ARG	X	270	37.389	51.776	69.810	0.00	0.00
ATOM	4028	HB2	ARG	X	270	37.096	51.755	70.859	0.00	0.00
ATOM	4029	HB3	ARG	X	270	37.296	52.731	69.294	0.00	0.00

ATOM	4030	CG	ARG	X	270	36.486	50.830	68.977	0.00	0.00
ATOM	4031	HG2	ARG	X	270	36.790	50.799	67.931	0.00	0.00
ATOM	4032	HG3	ARG	X	270	36.533	49.840	69.429	0.00	0.00
ATOM	4033	CD	ARG	X	270	35.006	51.286	68.825	0.00	0.00
ATOM	4034	HD2	ARG	X	270	35.094	52.202	68.240	0.00	0.00
ATOM	4035	HD3	ARG	X	270	34.413	50.631	68.187	0.00	0.00
ATOM	4036	NE	ARG	X	270	34.438	51.413	70.144	0.00	0.00
ATOM	4037	HE	ARG	X	270	34.621	50.656	70.786	0.00	0.00
ATOM	4038	CZ	ARG	X	270	33.826	52.416	70.639	0.00	0.00
ATOM	4039	NH1	ARG	X	270	33.457	53.446	69.915	0.00	0.00
ATOM	4040	HH11	ARG	X	270	33.468	53.443	68.905	0.00	0.00
ATOM	4041	HH12	ARG	X	270	32.916	54.214	70.287	0.00	0.00
ATOM	4042	NH2	ARG	X	270	33.357	52.333	71.821	0.00	0.00
ATOM	4043	HH21	ARG	X	270	33.174	51.423	72.218	0.00	0.00
ATOM	4044	HH22	ARG	X	270	32.951	53.141	72.271	0.00	0.00
ATOM	4045	C	ARG	X	270	39.830	52.555	70.138	0.00	0.00
ATOM	4046	O	ARG	X	270	39.826	53.629	69.556	0.00	0.00
ATOM	4047	N	THR	X	271	40.595	52.359	71.191	0.00	0.00
ATOM	4048	H	THR	X	271	40.411	51.530	71.737	0.00	0.00
ATOM	4049	CA	THR	X	271	41.398	53.356	71.951	0.00	0.00
ATOM	4050	HA	THR	X	271	41.220	54.328	71.492	0.00	0.00
ATOM	4051	CB	THR	X	271	40.876	53.431	73.400	0.00	0.00
ATOM	4052	HB	THR	X	271	40.959	52.439	73.844	0.00	0.00
ATOM	4053	CG2	THR	X	271	41.808	54.398	74.201	0.00	0.00
ATOM	4054	HG21	THR	X	271	41.522	54.513	75.247	0.00	0.00
ATOM	4055	HG22	THR	X	271	42.803	53.964	74.301	0.00	0.00
ATOM	4056	HG23	THR	X	271	41.812	55.381	73.730	0.00	0.00
ATOM	4057	OG1	THR	X	271	39.610	53.962	73.383	0.00	0.00
ATOM	4058	HG1	THR	X	271	38.957	53.273	73.242	0.00	0.00
ATOM	4059	C	THR	X	271	42.925	53.138	71.773	0.00	0.00
ATOM	4060	O	THR	X	271	43.615	54.088	71.475	0.00	0.00
ATOM	4061	N	ARG	X	272	43.368	51.888	71.739	0.00	0.00
ATOM	4062	H	ARG	X	272	42.751	51.104	71.893	0.00	0.00
ATOM	4063	CA	ARG	X	272	44.808	51.535	71.501	0.00	0.00
ATOM	4064	HA	ARG	X	272	45.400	52.242	72.082	0.00	0.00
ATOM	4065	CB	ARG	X	272	45.128	50.123	72.099	0.00	0.00
ATOM	4066	HB2	ARG	X	272	44.489	49.414	71.572	0.00	0.00
ATOM	4067	HB3	ARG	X	272	46.145	49.838	71.831	0.00	0.00
ATOM	4068	CG	ARG	X	272	45.062	50.140	73.630	0.00	0.00
ATOM	4069	HG2	ARG	X	272	45.825	50.865	73.914	0.00	0.00
ATOM	4070	HG3	ARG	X	272	44.124	50.476	74.072	0.00	0.00
ATOM	4071	CD	ARG	X	272	45.391	48.697	74.048	0.00	0.00
ATOM	4072	HD2	ARG	X	272	44.737	48.016	73.504	0.00	0.00
ATOM	4073	HD3	ARG	X	272	46.414	48.547	73.703	0.00	0.00
ATOM	4074	NE	ARG	X	272	45.242	48.578	75.507	0.00	0.00
ATOM	4075	HE	ARG	X	272	44.416	48.909	75.986	0.00	0.00
ATOM	4076	CZ	ARG	X	272	46.252	48.216	76.315	0.00	0.00
ATOM	4077	NH1	ARG	X	272	47.387	47.681	75.822	0.00	0.00
ATOM	4078	HH11	ARG	X	272	47.391	47.270	74.900	0.00	0.00
ATOM	4079	HH12	ARG	X	272	48.124	47.463	76.478	0.00	0.00
ATOM	4080	NH2	ARG	X	272	46.195	48.546	77.584	0.00	0.00
ATOM	4081	HH21	ARG	X	272	45.336	48.983	77.886	0.00	0.00
ATOM	4082	HH22	ARG	X	272	46.922	48.217	78.204	0.00	0.00
ATOM	4083	C	ARG	X	272	45.336	51.731	70.038	0.00	0.00
ATOM	4084	O	ARG	X	272	44.459	51.775	69.093	0.00	0.00
ATOM	4085	N	PRO	X	273	46.622	52.030	69.791	0.00	0.00
ATOM	4086	CD	PRO	X	273	47.692	51.803	70.837	0.00	0.00
ATOM	4087	HD2	PRO	X	273	48.025	50.766	70.865	0.00	0.00
ATOM	4088	HD3	PRO	X	273	47.453	52.104	71.857	0.00	0.00
ATOM	4089	CG	PRO	X	273	48.755	52.683	70.391	0.00	0.00
ATOM	4090	HG2	PRO	X	273	49.773	52.324	70.542	0.00	0.00
ATOM	4091	HG3	PRO	X	273	48.840	53.613	70.952	0.00	0.00
ATOM	4092	CB	PRO	X	273	48.545	52.991	68.902	0.00	0.00
ATOM	4093	HB2	PRO	X	273	49.246	52.364	68.351	0.00	0.00
ATOM	4094	HB3	PRO	X	273	48.669	54.062	68.741	0.00	0.00
ATOM	4095	CA	PRO	X	273	47.085	52.591	68.568	0.00	0.00
ATOM	4096	HA	PRO	X	273	46.590	53.516	68.270	0.00	0.00
ATOM	4097	C	PRO	X	273	47.050	51.671	67.420	0.00	0.00
ATOM	4098	O	PRO	X	273	47.013	50.464	67.587	0.00	0.00
ATOM	4099	N	ALA	X	274	47.126	52.215	66.186	0.00	0.00

ATOM	4100	H	ALA	X	274	47.048	53.219	66.113	0.00	0.00
ATOM	4101	CA	ALA	X	274	47.030	51.467	64.958	0.00	0.00
ATOM	4102	HA	ALA	X	274	46.294	50.666	65.035	0.00	0.00
ATOM	4103	CB	ALA	X	274	46.820	52.511	63.876	0.00	0.00
ATOM	4104	HB1	ALA	X	274	46.096	53.236	64.248	0.00	0.00
ATOM	4105	HB2	ALA	X	274	47.675	53.112	63.568	0.00	0.00
ATOM	4106	HB3	ALA	X	274	46.404	52.093	62.959	0.00	0.00
ATOM	4107	C	ALA	X	274	48.296	50.647	64.546	0.00	0.00
ATOM	4108	O	ALA	X	274	48.061	49.522	64.017	0.00	0.00
ATOM	4109	N	GLN	X	275	49.530	50.998	64.756	0.00	0.00
ATOM	4110	H	GLN	X	275	49.687	51.937	65.092	0.00	0.00
ATOM	4111	CA	GLN	X	275	50.662	50.154	64.497	0.00	0.00
ATOM	4112	HA	GLN	X	275	50.447	49.823	63.481	0.00	0.00
ATOM	4113	CB	GLN	X	275	51.970	50.908	64.424	0.00	0.00
ATOM	4114	HB2	GLN	X	275	52.019	51.599	65.266	0.00	0.00
ATOM	4115	HB3	GLN	X	275	52.807	50.212	64.483	0.00	0.00
ATOM	4116	CG	GLN	X	275	52.133	51.757	63.100	0.00	0.00
ATOM	4117	HG2	GLN	X	275	52.165	51.108	62.225	0.00	0.00
ATOM	4118	HG3	GLN	X	275	51.316	52.473	63.020	0.00	0.00
ATOM	4119	CD	GLN	X	275	53.428	52.578	63.173	0.00	0.00
ATOM	4120	OE1	GLN	X	275	53.577	53.514	64.002	0.00	0.00
ATOM	4121	NE2	GLN	X	275	54.459	52.428	62.300	0.00	0.00
ATOM	4122	HE21	GLN	X	275	55.302	52.973	62.407	0.00	0.00
ATOM	4123	HE22	GLN	X	275	54.356	51.754	61.554	0.00	0.00
ATOM	4124	C	GLN	X	275	50.879	48.808	65.293	0.00	0.00
ATOM	4125	O	GLN	X	275	51.344	47.796	64.749	0.00	0.00
ATOM	4126	N	VAL	X	276	50.421	48.850	66.538	0.00	0.00
ATOM	4127	H	VAL	X	276	50.147	49.757	66.887	0.00	0.00
ATOM	4128	CA	VAL	X	276	50.451	47.690	67.382	0.00	0.00
ATOM	4129	HA	VAL	X	276	51.283	47.014	67.178	0.00	0.00
ATOM	4130	CB	VAL	X	276	50.620	47.882	68.952	0.00	0.00
ATOM	4131	HB	VAL	X	276	51.538	48.442	69.130	0.00	0.00
ATOM	4132	CG1	VAL	X	276	49.535	48.796	69.502	0.00	0.00
ATOM	4133	HG11	VAL	X	276	48.538	48.383	69.349	0.00	0.00
ATOM	4134	HG12	VAL	X	276	49.671	48.932	70.575	0.00	0.00
ATOM	4135	HG13	VAL	X	276	49.724	49.774	69.060	0.00	0.00
ATOM	4136	CG2	VAL	X	276	50.758	46.636	69.916	0.00	0.00
ATOM	4137	HG21	VAL	X	276	49.913	46.005	69.640	0.00	0.00
ATOM	4138	HG22	VAL	X	276	51.683	46.089	69.732	0.00	0.00
ATOM	4139	HG23	VAL	X	276	50.767	46.930	70.965	0.00	0.00
ATOM	4140	C	VAL	X	276	49.231	46.789	67.105	0.00	0.00
ATOM	4141	O	VAL	X	276	49.387	45.591	67.278	0.00	0.00
ATOM	4142	N	LEU	X	277	48.101	47.320	66.578	0.00	0.00
ATOM	4143	H	LEU	X	277	48.100	48.327	66.506	0.00	0.00
ATOM	4144	CA	LEU	X	277	46.956	46.544	66.035	0.00	0.00
ATOM	4145	HA	LEU	X	277	46.597	45.806	66.753	0.00	0.00
ATOM	4146	CB	LEU	X	277	45.862	47.580	65.590	0.00	0.00
ATOM	4147	HB2	LEU	X	277	45.655	48.240	66.433	0.00	0.00
ATOM	4148	HB3	LEU	X	277	46.231	48.095	64.703	0.00	0.00
ATOM	4149	CG	LEU	X	277	44.495	46.887	65.207	0.00	0.00
ATOM	4150	HG	LEU	X	277	44.755	46.326	64.309	0.00	0.00
ATOM	4151	CD1	LEU	X	277	43.980	45.917	66.258	0.00	0.00
ATOM	4152	HD11	LEU	X	277	44.602	45.022	66.294	0.00	0.00
ATOM	4153	HD12	LEU	X	277	43.925	46.416	67.225	0.00	0.00
ATOM	4154	HD13	LEU	X	277	42.960	45.620	66.014	0.00	0.00
ATOM	4155	CD2	LEU	X	277	43.468	47.971	65.057	0.00	0.00
ATOM	4156	HD21	LEU	X	277	43.325	48.559	65.964	0.00	0.00
ATOM	4157	HD22	LEU	X	277	43.692	48.608	64.201	0.00	0.00
ATOM	4158	HD23	LEU	X	277	42.525	47.504	64.771	0.00	0.00
ATOM	4159	C	LEU	X	277	47.448	45.650	64.856	0.00	0.00
ATOM	4160	O	LEU	X	277	47.545	44.431	65.020	0.00	0.00
ATOM	4161	N	VAL	X	278	47.993	46.191	63.757	0.00	0.00
ATOM	4162	H	VAL	X	278	47.906	47.197	63.721	0.00	0.00
ATOM	4163	CA	VAL	X	278	48.376	45.409	62.502	0.00	0.00
ATOM	4164	HA	VAL	X	278	47.636	44.658	62.226	0.00	0.00
ATOM	4165	CB	VAL	X	278	48.526	46.376	61.268	0.00	0.00
ATOM	4166	HB	VAL	X	278	48.430	45.713	60.408	0.00	0.00
ATOM	4167	CG1	VAL	X	278	47.349	47.355	61.168	0.00	0.00
ATOM	4168	HG11	VAL	X	278	47.336	48.005	62.042	0.00	0.00
ATOM	4169	HG12	VAL	X	278	47.364	47.918	60.235	0.00	0.00

ATOM	4170	HG13	VAL	X	278	46.465	46.718	61.161	0.00	0.00
ATOM	4171	CG2	VAL	X	278	49.843	47.163	61.301	0.00	0.00
ATOM	4172	HG21	VAL	X	278	49.928	47.957	62.043	0.00	0.00
ATOM	4173	HG22	VAL	X	278	50.683	46.476	61.405	0.00	0.00
ATOM	4174	HG23	VAL	X	278	49.920	47.652	60.330	0.00	0.00
ATOM	4175	C	VAL	X	278	49.652	44.487	62.653	0.00	0.00
ATOM	4176	O	VAL	X	278	49.778	43.525	61.883	0.00	0.00
ATOM	4177	N	ASN	X	279	50.480	44.736	63.694	0.00	0.00
ATOM	4178	H	ASN	X	279	50.312	45.459	64.379	0.00	0.00
ATOM	4179	CA	ASN	X	279	51.464	43.866	64.278	0.00	0.00
ATOM	4180	HA	ASN	X	279	52.238	43.645	63.543	0.00	0.00
ATOM	4181	CB	ASN	X	279	52.155	44.468	65.462	0.00	0.00
ATOM	4182	HB2	ASN	X	279	52.521	45.453	65.171	0.00	0.00
ATOM	4183	HB3	ASN	X	279	51.440	44.505	66.283	0.00	0.00
ATOM	4184	CG	ASN	X	279	53.368	43.678	65.892	0.00	0.00
ATOM	4185	OD1	ASN	X	279	53.375	42.874	66.784	0.00	0.00
ATOM	4186	ND2	ASN	X	279	54.448	44.032	65.234	0.00	0.00
ATOM	4187	HD21	ASN	X	279	55.350	43.640	65.462	0.00	0.00
ATOM	4188	HD22	ASN	X	279	54.446	44.571	64.380	0.00	0.00
ATOM	4189	C	ASN	X	279	50.907	42.486	64.645	0.00	0.00
ATOM	4190	O	ASN	X	279	51.402	41.431	64.259	0.00	0.00
ATOM	4191	N	HIE	X	280	49.770	42.487	65.295	0.00	0.00
ATOM	4192	H	HIE	X	280	49.350	43.396	65.425	0.00	0.00
ATOM	4193	CA	HIE	X	280	49.085	41.292	65.844	0.00	0.00
ATOM	4194	HA	HIE	X	280	49.847	40.513	65.870	0.00	0.00
ATOM	4195	CB	HIE	X	280	48.617	41.463	67.335	0.00	0.00
ATOM	4196	HB2	HIE	X	280	48.032	42.378	67.423	0.00	0.00
ATOM	4197	HB3	HIE	X	280	48.072	40.536	67.512	0.00	0.00
ATOM	4198	CG	HIE	X	280	49.761	41.576	68.191	0.00	0.00
ATOM	4199	ND1	HIE	X	280	50.707	40.583	68.367	0.00	0.00
ATOM	4200	CE1	HIE	X	280	51.474	40.966	69.432	0.00	0.00
ATOM	4201	HE1	HIE	X	280	52.294	40.429	69.886	0.00	0.00
ATOM	4202	NE2	HIE	X	280	51.050	42.164	69.883	0.00	0.00
ATOM	4203	HE2	HIE	X	280	51.503	42.796	70.527	0.00	0.00
ATOM	4204	CD2	HIE	X	280	49.912	42.511	69.175	0.00	0.00
ATOM	4205	HD2	HIE	X	280	49.337	43.385	69.441	0.00	0.00
ATOM	4206	C	HIE	X	280	47.936	40.809	64.916	0.00	0.00
ATOM	4207	O	HIE	X	280	47.629	39.634	64.906	0.00	0.00
ATOM	4208	N	GLU	X	281	47.363	41.671	64.042	0.00	0.00
ATOM	4209	H	GLU	X	281	47.432	42.673	64.153	0.00	0.00
ATOM	4210	CA	GLU	X	281	46.418	41.170	62.973	0.00	0.00
ATOM	4211	HA	GLU	X	281	45.584	40.766	63.546	0.00	0.00
ATOM	4212	CB	GLU	X	281	46.024	42.375	62.103	0.00	0.00
ATOM	4213	HB2	GLU	X	281	46.184	43.246	62.739	0.00	0.00
ATOM	4214	HB3	GLU	X	281	46.639	42.487	61.210	0.00	0.00
ATOM	4215	CG	GLU	X	281	44.508	42.362	61.792	0.00	0.00
ATOM	4216	HG2	GLU	X	281	44.207	41.315	61.748	0.00	0.00
ATOM	4217	HG3	GLU	X	281	43.921	42.927	62.516	0.00	0.00
ATOM	4218	CD	GLU	X	281	44.325	43.152	60.474	0.00	0.00
ATOM	4219	OE1	GLU	X	281	44.087	44.356	60.597	0.00	0.00
ATOM	4220	OE2	GLU	X	281	44.374	42.485	59.359	0.00	0.00
ATOM	4221	C	GLU	X	281	47.118	40.138	62.029	0.00	0.00
ATOM	4222	O	GLU	X	281	46.570	39.047	62.014	0.00	0.00
ATOM	4223	N	TRP	X	282	48.351	40.376	61.579	0.00	0.00
ATOM	4224	H	TRP	X	282	48.784	41.273	61.747	0.00	0.00
ATOM	4225	CA	TRP	X	282	48.997	39.366	60.784	0.00	0.00
ATOM	4226	HA	TRP	X	282	48.274	39.005	60.053	0.00	0.00
ATOM	4227	CB	TRP	X	282	50.090	40.067	59.926	0.00	0.00
ATOM	4228	HB2	TRP	X	282	49.972	41.144	59.806	0.00	0.00
ATOM	4229	HB3	TRP	X	282	51.066	39.955	60.397	0.00	0.00
ATOM	4230	CG	TRP	X	282	50.010	39.653	58.432	0.00	0.00
ATOM	4231	CD1	TRP	X	282	49.180	40.151	57.511	0.00	0.00
ATOM	4232	HD1	TRP	X	282	48.528	40.999	57.662	0.00	0.00
ATOM	4233	NE1	TRP	X	282	49.411	39.519	56.308	0.00	0.00
ATOM	4234	HE1	TRP	X	282	48.926	39.735	55.449	0.00	0.00
ATOM	4235	CE2	TRP	X	282	50.470	38.580	56.405	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	51.244	37.901	55.421	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	50.918	38.028	54.399	0.00	0.00
ATOM	4238	CH2	TRP	X	282	52.346	37.200	55.841	0.00	0.00
ATOM	4239	HH2	TRP	X	282	53.016	36.783	55.104	0.00	0.00

ATOM	4240	CZ3	TRP	X	282	52.617	37.044	57.218	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	53.423	36.362	57.448	0.00	0.00
ATOM	4242	CE3	TRP	X	282	51.951	37.859	58.129	0.00	0.00
ATOM	4243	HE3	TRP	X	282	52.340	37.875	59.137	0.00	0.00
ATOM	4244	CD2	TRP	X	282	50.812	38.649	57.770	0.00	0.00
ATOM	4245	C	TRP	X	282	49.423	38.146	61.641	0.00	0.00
ATOM	4246	O	TRP	X	282	50.105	37.243	61.118	0.00	0.00
ATOM	4247	N	HIE	X	283	49.086	38.065	62.972	0.00	0.00
ATOM	4248	H	HIE	X	283	48.646	38.840	63.449	0.00	0.00
ATOM	4249	CA	HIE	X	283	49.339	36.982	63.910	0.00	0.00
ATOM	4250	HA	HIE	X	283	50.039	36.250	63.507	0.00	0.00
ATOM	4251	CB	HIE	X	283	50.039	37.574	65.107	0.00	0.00
ATOM	4252	HB2	HIE	X	283	50.840	38.213	64.735	0.00	0.00
ATOM	4253	HB3	HIE	X	283	49.352	38.156	65.722	0.00	0.00
ATOM	4254	CG	HIE	X	283	50.861	36.608	65.950	0.00	0.00
ATOM	4255	ND1	HIE	X	283	51.617	35.528	65.351	0.00	0.00
ATOM	4256	CE1	HIE	X	283	52.319	34.963	66.387	0.00	0.00
ATOM	4257	HE1	HIE	X	283	52.954	34.123	66.148	0.00	0.00
ATOM	4258	NE2	HIE	X	283	51.987	35.532	67.597	0.00	0.00
ATOM	4259	HE2	HIE	X	283	52.192	35.155	68.511	0.00	0.00
ATOM	4260	CD2	HIE	X	283	51.050	36.554	67.296	0.00	0.00
ATOM	4261	HD2	HIE	X	283	50.637	37.242	68.019	0.00	0.00
ATOM	4262	C	HIE	X	283	48.058	36.286	64.359	0.00	0.00
ATOM	4263	O	HIE	X	283	48.150	35.292	65.089	0.00	0.00
ATOM	4264	N	VAL	X	284	46.872	36.787	63.980	0.00	0.00
ATOM	4265	H	VAL	X	284	46.871	37.660	63.472	0.00	0.00
ATOM	4266	CA	VAL	X	284	45.504	36.115	64.059	0.00	0.00
ATOM	4267	HA	VAL	X	284	45.642	35.180	64.602	0.00	0.00
ATOM	4268	CB	VAL	X	284	44.415	36.978	64.772	0.00	0.00
ATOM	4269	HB	VAL	X	284	43.540	36.338	64.883	0.00	0.00
ATOM	4270	CG1	VAL	X	284	44.859	37.345	66.190	0.00	0.00
ATOM	4271	HG11	VAL	X	284	45.281	36.470	66.685	0.00	0.00
ATOM	4272	HG12	VAL	X	284	45.631	38.114	66.181	0.00	0.00
ATOM	4273	HG13	VAL	X	284	43.939	37.689	66.662	0.00	0.00
ATOM	4274	CG2	VAL	X	284	44.135	38.310	64.116	0.00	0.00
ATOM	4275	HG21	VAL	X	284	43.214	38.781	64.460	0.00	0.00
ATOM	4276	HG22	VAL	X	284	45.032	38.928	64.147	0.00	0.00
ATOM	4277	HG23	VAL	X	284	43.950	38.064	63.071	0.00	0.00
ATOM	4278	C	VAL	X	284	45.179	35.599	62.618	0.00	0.00
ATOM	4279	O	VAL	X	284	43.988	35.188	62.410	0.00	0.00
ATOM	4280	N	LEU	X	285	46.099	35.690	61.620	0.00	0.00
ATOM	4281	H	LEU	X	285	46.989	36.162	61.693	0.00	0.00
ATOM	4282	CA	LEU	X	285	45.987	35.109	60.296	0.00	0.00
ATOM	4283	HA	LEU	X	285	45.083	35.489	59.820	0.00	0.00
ATOM	4284	CB	LEU	X	285	47.154	35.706	59.501	0.00	0.00
ATOM	4285	HB2	LEU	X	285	47.058	36.790	59.448	0.00	0.00
ATOM	4286	HB3	LEU	X	285	48.130	35.519	59.948	0.00	0.00
ATOM	4287	CG	LEU	X	285	47.276	35.119	58.072	0.00	0.00
ATOM	4288	HG	LEU	X	285	46.374	34.937	57.488	0.00	0.00
ATOM	4289	CD1	LEU	X	285	47.862	36.198	57.134	0.00	0.00
ATOM	4290	HD11	LEU	X	285	47.347	37.143	57.302	0.00	0.00
ATOM	4291	HD12	LEU	X	285	48.906	36.402	57.373	0.00	0.00
ATOM	4292	HD13	LEU	X	285	47.766	35.935	56.081	0.00	0.00
ATOM	4293	CD2	LEU	X	285	48.167	33.832	57.850	0.00	0.00
ATOM	4294	HD21	LEU	X	285	47.405	33.054	57.885	0.00	0.00
ATOM	4295	HD22	LEU	X	285	48.595	33.814	56.848	0.00	0.00
ATOM	4296	HD23	LEU	X	285	48.891	33.733	58.659	0.00	0.00
ATOM	4297	C	LEU	X	285	45.984	33.553	60.418	0.00	0.00
ATOM	4298	O	LEU	X	285	46.978	32.963	60.861	0.00	0.00
ATOM	4299	N	PRO	X	286	44.739	32.920	60.290	0.00	0.00
ATOM	4300	CD	PRO	X	286	43.552	33.474	59.696	0.00	0.00
ATOM	4301	HD2	PRO	X	286	43.743	33.337	58.631	0.00	0.00
ATOM	4302	HD3	PRO	X	286	43.407	34.492	60.056	0.00	0.00
ATOM	4303	CG	PRO	X	286	42.268	32.598	60.033	0.00	0.00
ATOM	4304	HG2	PRO	X	286	41.571	32.669	59.198	0.00	0.00
ATOM	4305	HG3	PRO	X	286	41.851	32.738	61.031	0.00	0.00
ATOM	4306	CB	PRO	X	286	42.991	31.253	60.035	0.00	0.00
ATOM	4307	HB2	PRO	X	286	43.102	30.979	58.986	0.00	0.00
ATOM	4308	HB3	PRO	X	286	42.461	30.481	60.593	0.00	0.00
ATOM	4309	CA	PRO	X	286	44.450	31.480	60.563	0.00	0.00

ATOM	4310	HA	PRO	X	286	44.511	31.386	61.647	0.00	0.00
ATOM	4311	C	PRO	X	286	45.522	30.526	59.951	0.00	0.00
ATOM	4312	O	PRO	X	286	45.748	30.630	58.737	0.00	0.00
ATOM	4313	N	GLN	X	287	46.078	29.589	60.698	0.00	0.00
ATOM	4314	H	GLN	X	287	45.835	29.585	61.678	0.00	0.00
ATOM	4315	CA	GLN	X	287	47.380	28.966	60.396	0.00	0.00
ATOM	4316	HA	GLN	X	287	47.944	29.715	59.841	0.00	0.00
ATOM	4317	CB	GLN	X	287	48.190	28.703	61.734	0.00	0.00
ATOM	4318	HB2	GLN	X	287	47.502	28.147	62.371	0.00	0.00
ATOM	4319	HB3	GLN	X	287	49.095	28.109	61.607	0.00	0.00
ATOM	4320	CG	GLN	X	287	48.500	30.041	62.548	0.00	0.00
ATOM	4321	HG2	GLN	X	287	47.629	30.691	62.455	0.00	0.00
ATOM	4322	HG3	GLN	X	287	48.682	29.785	63.592	0.00	0.00
ATOM	4323	CD	GLN	X	287	49.737	30.643	61.957	0.00	0.00
ATOM	4324	OE1	GLN	X	287	50.832	30.083	62.098	0.00	0.00
ATOM	4325	NE2	GLN	X	287	49.595	31.772	61.347	0.00	0.00
ATOM	4326	HE21	GLN	X	287	50.324	32.161	60.766	0.00	0.00
ATOM	4327	HE22	GLN	X	287	48.682	32.202	61.315	0.00	0.00
ATOM	4328	C	GLN	X	287	47.234	27.783	59.496	0.00	0.00
ATOM	4329	O	GLN	X	287	46.260	27.233	59.091	0.00	0.00
ATOM	4330	N	GLU	X	288	48.446	27.291	59.093	0.00	0.00
ATOM	4331	H	GLU	X	288	49.246	27.843	59.370	0.00	0.00
ATOM	4332	CA	GLU	X	288	48.866	26.071	58.460	0.00	0.00
ATOM	4333	HA	GLU	X	288	49.947	26.049	58.327	0.00	0.00
ATOM	4334	CB	GLU	X	288	48.622	24.847	59.359	0.00	0.00
ATOM	4335	HB2	GLU	X	288	48.362	25.108	60.385	0.00	0.00
ATOM	4336	HB3	GLU	X	288	47.759	24.243	59.081	0.00	0.00
ATOM	4337	CG	GLU	X	288	49.812	23.880	59.503	0.00	0.00
ATOM	4338	HG2	GLU	X	288	49.417	23.121	60.179	0.00	0.00
ATOM	4339	HG3	GLU	X	288	50.047	23.409	58.548	0.00	0.00
ATOM	4340	CD	GLU	X	288	51.112	24.495	60.132	0.00	0.00
ATOM	4341	OE1	GLU	X	288	52.185	24.420	59.591	0.00	0.00
ATOM	4342	OE2	GLU	X	288	50.985	25.055	61.291	0.00	0.00
ATOM	4343	C	GLU	X	288	48.226	25.887	57.055	0.00	0.00
ATOM	4344	O	GLU	X	288	48.104	24.738	56.585	0.00	0.00
ATOM	4345	N	SER	X	289	47.738	26.978	56.432	0.00	0.00
ATOM	4346	H	SER	X	289	47.682	27.816	56.994	0.00	0.00
ATOM	4347	CA	SER	X	289	47.438	26.986	54.999	0.00	0.00
ATOM	4348	HA	SER	X	289	48.011	26.203	54.500	0.00	0.00
ATOM	4349	CB	SER	X	289	46.023	26.594	54.637	0.00	0.00
ATOM	4350	HB2	SER	X	289	45.306	27.280	55.088	0.00	0.00
ATOM	4351	HB3	SER	X	289	45.969	26.561	53.549	0.00	0.00
ATOM	4352	OG	SER	X	289	45.713	25.289	55.176	0.00	0.00
ATOM	4353	HG	SER	X	289	46.138	25.182	56.030	0.00	0.00
ATOM	4354	C	SER	X	289	47.757	28.273	54.261	0.00	0.00
ATOM	4355	O	SER	X	289	47.747	29.348	54.819	0.00	0.00
ATOM	4356	N	VAL	X	290	47.955	28.228	52.943	0.00	0.00
ATOM	4357	H	VAL	X	290	47.993	27.339	52.467	0.00	0.00
ATOM	4358	CA	VAL	X	290	47.925	29.372	52.080	0.00	0.00
ATOM	4359	HA	VAL	X	290	48.231	30.278	52.605	0.00	0.00
ATOM	4360	CB	VAL	X	290	48.768	29.392	50.808	0.00	0.00
ATOM	4361	HB	VAL	X	290	48.558	30.349	50.330	0.00	0.00
ATOM	4362	CG1	VAL	X	290	50.230	29.462	51.293	0.00	0.00
ATOM	4363	HG11	VAL	X	290	50.501	30.336	51.885	0.00	0.00
ATOM	4364	HG12	VAL	X	290	50.399	28.552	51.869	0.00	0.00
ATOM	4365	HG13	VAL	X	290	50.913	29.353	50.451	0.00	0.00
ATOM	4366	CG2	VAL	X	290	48.571	28.255	49.788	0.00	0.00
ATOM	4367	HG21	VAL	X	290	47.502	28.349	49.592	0.00	0.00
ATOM	4368	HG22	VAL	X	290	49.165	28.429	48.890	0.00	0.00
ATOM	4369	HG23	VAL	X	290	48.738	27.315	50.313	0.00	0.00
ATOM	4370	C	VAL	X	290	46.509	29.623	51.594	0.00	0.00
ATOM	4371	O	VAL	X	290	45.579	28.843	51.693	0.00	0.00
ATOM	4372	N	PHE	X	291	46.303	30.798	51.098	0.00	0.00
ATOM	4373	H	PHE	X	291	47.073	31.450	51.062	0.00	0.00
ATOM	4374	CA	PHE	X	291	44.994	31.290	50.736	0.00	0.00
ATOM	4375	HA	PHE	X	291	45.087	32.259	50.244	0.00	0.00
ATOM	4376	CB	PHE	X	291	44.294	30.394	49.596	0.00	0.00
ATOM	4377	HB2	PHE	X	291	44.970	29.605	49.266	0.00	0.00
ATOM	4378	HB3	PHE	X	291	43.428	29.868	49.998	0.00	0.00
ATOM	4379	CG	PHE	X	291	43.667	31.069	48.381	0.00	0.00

ATOM	4380	CD1	PHE	X	291	42.998	32.280	48.585	0.00	0.00
ATOM	4381	HD1	PHE	X	291	42.894	32.741	49.557	0.00	0.00
ATOM	4382	CE1	PHE	X	291	42.624	32.988	47.413	0.00	0.00
ATOM	4383	HE1	PHE	X	291	42.271	34.009	47.437	0.00	0.00
ATOM	4384	CZ	PHE	X	291	42.881	32.430	46.172	0.00	0.00
ATOM	4385	HZ	PHE	X	291	42.496	33.011	45.347	0.00	0.00
ATOM	4386	CE2	PHE	X	291	43.475	31.237	45.993	0.00	0.00
ATOM	4387	HE2	PHE	X	291	43.728	30.786	45.045	0.00	0.00
ATOM	4388	CD2	PHE	X	291	43.862	30.478	47.119	0.00	0.00
ATOM	4389	HD2	PHE	X	291	44.293	29.504	46.939	0.00	0.00
ATOM	4390	C	PHE	X	291	44.095	31.691	51.974	0.00	0.00
ATOM	4391	O	PHE	X	291	42.953	31.287	52.118	0.00	0.00
ATOM	4392	N	ARG	X	292	44.713	32.354	53.000	0.00	0.00
ATOM	4393	H	ARG	X	292	45.671	32.654	52.885	0.00	0.00
ATOM	4394	CA	ARG	X	292	44.123	32.619	54.327	0.00	0.00
ATOM	4395	HA	ARG	X	292	43.034	32.607	54.340	0.00	0.00
ATOM	4396	CB	ARG	X	292	44.741	31.591	55.319	0.00	0.00
ATOM	4397	HB2	ARG	X	292	45.772	31.381	55.036	0.00	0.00
ATOM	4398	HB3	ARG	X	292	44.637	31.934	56.349	0.00	0.00
ATOM	4399	CG	ARG	X	292	44.098	30.250	55.299	0.00	0.00
ATOM	4400	HG2	ARG	X	292	44.205	29.858	54.288	0.00	0.00
ATOM	4401	HG3	ARG	X	292	44.670	29.563	55.922	0.00	0.00
ATOM	4402	CD	ARG	X	292	42.652	30.075	55.815	0.00	0.00
ATOM	4403	HD2	ARG	X	292	42.582	29.031	56.120	0.00	0.00
ATOM	4404	HD3	ARG	X	292	42.473	30.823	56.588	0.00	0.00
ATOM	4405	NE	ARG	X	292	41.711	30.299	54.680	0.00	0.00
ATOM	4406	HE	ARG	X	292	42.089	30.634	53.805	0.00	0.00
ATOM	4407	CZ	ARG	X	292	40.375	30.067	54.598	0.00	0.00
ATOM	4408	NH1	ARG	X	292	39.712	29.747	55.682	0.00	0.00
ATOM	4409	HH11	ARG	X	292	40.231	29.762	56.548	0.00	0.00
ATOM	4410	HH12	ARG	X	292	38.857	29.210	55.673	0.00	0.00
ATOM	4411	NH2	ARG	X	292	39.660	30.087	53.462	0.00	0.00
ATOM	4412	HH21	ARG	X	292	40.070	30.048	52.540	0.00	0.00
ATOM	4413	HH22	ARG	X	292	38.677	29.947	53.650	0.00	0.00
ATOM	4414	C	ARG	X	292	44.616	34.014	54.687	0.00	0.00
ATOM	4415	O	ARG	X	292	45.726	34.375	54.235	0.00	0.00
ATOM	4416	N	PHE	X	293	43.830	34.921	55.387	0.00	0.00
ATOM	4417	H	PHE	X	293	42.987	34.480	55.727	0.00	0.00
ATOM	4418	CA	PHE	X	293	44.143	36.309	55.736	0.00	0.00
ATOM	4419	HA	PHE	X	293	45.224	36.397	55.627	0.00	0.00
ATOM	4420	CB	PHE	X	293	43.499	37.276	54.690	0.00	0.00
ATOM	4421	HB2	PHE	X	293	42.423	37.155	54.813	0.00	0.00
ATOM	4422	HB3	PHE	X	293	43.801	38.270	55.021	0.00	0.00
ATOM	4423	CG	PHE	X	293	43.976	37.120	53.258	0.00	0.00
ATOM	4424	CD1	PHE	X	293	45.346	37.392	52.972	0.00	0.00
ATOM	4425	HD1	PHE	X	293	45.940	37.616	53.846	0.00	0.00
ATOM	4426	CE1	PHE	X	293	45.796	37.151	51.705	0.00	0.00
ATOM	4427	HE1	PHE	X	293	46.796	37.474	51.456	0.00	0.00
ATOM	4428	CZ	PHE	X	293	44.935	36.722	50.692	0.00	0.00
ATOM	4429	HZ	PHE	X	293	45.230	36.793	49.655	0.00	0.00
ATOM	4430	CE2	PHE	X	293	43.565	36.421	51.025	0.00	0.00
ATOM	4431	HE2	PHE	X	293	42.848	36.196	50.250	0.00	0.00
ATOM	4432	CD2	PHE	X	293	43.066	36.727	52.296	0.00	0.00
ATOM	4433	HD2	PHE	X	293	42.026	36.500	52.480	0.00	0.00
ATOM	4434	C	PHE	X	293	43.830	36.720	57.141	0.00	0.00
ATOM	4435	O	PHE	X	293	43.131	36.028	57.858	0.00	0.00
ATOM	4436	N	SER	X	294	44.449	37.873	57.495	0.00	0.00
ATOM	4437	H	SER	X	294	44.812	38.527	56.816	0.00	0.00
ATOM	4438	CA	SER	X	294	44.287	38.381	58.826	0.00	0.00
ATOM	4439	HA	SER	X	294	44.508	37.595	59.548	0.00	0.00
ATOM	4440	CB	SER	X	294	45.413	39.407	59.058	0.00	0.00
ATOM	4441	HB2	SER	X	294	45.216	39.780	60.063	0.00	0.00
ATOM	4442	HB3	SER	X	294	46.362	38.874	59.105	0.00	0.00
ATOM	4443	OG	SER	X	294	45.378	40.442	58.073	0.00	0.00
ATOM	4444	HG	SER	X	294	44.910	41.183	58.465	0.00	0.00
ATOM	4445	C	SER	X	294	42.884	38.813	59.206	0.00	0.00
ATOM	4446	O	SER	X	294	42.210	38.092	59.952	0.00	0.00
ATOM	4447	N	PHE	X	295	42.296	39.919	58.668	0.00	0.00
ATOM	4448	H	PHE	X	295	42.796	40.450	57.970	0.00	0.00
ATOM	4449	CA	PHE	X	295	40.844	40.066	58.601	0.00	0.00

ATOM	4450	HA	PHE	X	295	40.399	39.146	58.980	0.00	0.00
ATOM	4451	CB	PHE	X	295	40.308	41.193	59.556	0.00	0.00
ATOM	4452	HB2	PHE	X	295	41.113	41.889	59.788	0.00	0.00
ATOM	4453	HB3	PHE	X	295	39.513	41.842	59.186	0.00	0.00
ATOM	4454	CG	PHE	X	295	39.689	40.570	60.748	0.00	0.00
ATOM	4455	CD1	PHE	X	295	38.346	40.070	60.749	0.00	0.00
ATOM	4456	HD1	PHE	X	295	37.680	40.119	59.900	0.00	0.00
ATOM	4457	CE1	PHE	X	295	37.783	39.694	61.960	0.00	0.00
ATOM	4458	HE1	PHE	X	295	36.802	39.247	62.030	0.00	0.00
ATOM	4459	CZ	PHE	X	295	38.516	39.739	63.195	0.00	0.00
ATOM	4460	HZ	PHE	X	295	38.137	39.339	64.124	0.00	0.00
ATOM	4461	CE2	PHE	X	295	39.852	40.244	63.215	0.00	0.00
ATOM	4462	HE2	PHE	X	295	40.356	40.289	64.169	0.00	0.00
ATOM	4463	CD2	PHE	X	295	40.428	40.647	61.997	0.00	0.00
ATOM	4464	HD2	PHE	X	295	41.433	41.039	61.954	0.00	0.00
ATOM	4465	C	PHE	X	295	40.445	40.239	57.108	0.00	0.00
ATOM	4466	O	PHE	X	295	41.268	40.217	56.186	0.00	0.00
ATOM	4467	N	VAL	X	296	39.119	40.277	56.926	0.00	0.00
ATOM	4468	H	VAL	X	296	38.627	40.538	57.769	0.00	0.00
ATOM	4469	CA	VAL	X	296	38.368	39.787	55.788	0.00	0.00
ATOM	4470	HA	VAL	X	296	38.690	40.302	54.883	0.00	0.00
ATOM	4471	CB	VAL	X	296	38.705	38.281	55.594	0.00	0.00
ATOM	4472	HB	VAL	X	296	39.754	38.135	55.336	0.00	0.00
ATOM	4473	CG1	VAL	X	296	38.340	37.485	56.846	0.00	0.00
ATOM	4474	HG11	VAL	X	296	38.325	36.411	56.658	0.00	0.00
ATOM	4475	HG12	VAL	X	296	39.131	37.603	57.586	0.00	0.00
ATOM	4476	HG13	VAL	X	296	37.347	37.724	57.226	0.00	0.00
ATOM	4477	CG2	VAL	X	296	38.016	37.628	54.407	0.00	0.00
ATOM	4478	HG21	VAL	X	296	38.315	36.580	54.385	0.00	0.00
ATOM	4479	HG22	VAL	X	296	36.927	37.578	54.397	0.00	0.00
ATOM	4480	HG23	VAL	X	296	38.401	38.106	53.507	0.00	0.00
ATOM	4481	C	VAL	X	296	36.896	40.035	56.003	0.00	0.00
ATOM	4482	O	VAL	X	296	36.515	40.061	57.162	0.00	0.00
ATOM	4483	N	PRO	X	297	36.041	40.321	54.959	0.00	0.00
ATOM	4484	CD	PRO	X	297	36.357	40.380	53.528	0.00	0.00
ATOM	4485	HD2	PRO	X	297	36.306	39.356	53.160	0.00	0.00
ATOM	4486	HD3	PRO	X	297	37.393	40.708	53.434	0.00	0.00
ATOM	4487	CG	PRO	X	297	35.285	41.195	52.802	0.00	0.00
ATOM	4488	HG2	PRO	X	297	35.247	40.792	51.790	0.00	0.00
ATOM	4489	HG3	PRO	X	297	35.492	42.263	52.859	0.00	0.00
ATOM	4490	CB	PRO	X	297	34.124	40.909	53.684	0.00	0.00
ATOM	4491	HB2	PRO	X	297	33.680	39.950	53.420	0.00	0.00
ATOM	4492	HB3	PRO	X	297	33.289	41.606	53.616	0.00	0.00
ATOM	4493	CA	PRO	X	297	34.681	40.703	55.089	0.00	0.00
ATOM	4494	HA	PRO	X	297	34.794	41.643	55.630	0.00	0.00
ATOM	4495	C	PRO	X	297	33.885	39.655	55.966	0.00	0.00
ATOM	4496	O	PRO	X	297	34.186	38.505	55.982	0.00	0.00
ATOM	4497	N	VAL	X	298	32.813	40.080	56.672	0.00	0.00
ATOM	4498	H	VAL	X	298	32.516	41.045	56.687	0.00	0.00
ATOM	4499	CA	VAL	X	298	32.066	39.260	57.602	0.00	0.00
ATOM	4500	HA	VAL	X	298	32.623	38.331	57.729	0.00	0.00
ATOM	4501	CB	VAL	X	298	32.094	39.861	59.031	0.00	0.00
ATOM	4502	HB	VAL	X	298	31.434	40.728	59.042	0.00	0.00
ATOM	4503	CG1	VAL	X	298	31.527	38.774	59.941	0.00	0.00
ATOM	4504	HG11	VAL	X	298	30.451	38.887	60.080	0.00	0.00
ATOM	4505	HG12	VAL	X	298	31.916	37.802	59.638	0.00	0.00
ATOM	4506	HG13	VAL	X	298	31.788	39.032	60.968	0.00	0.00
ATOM	4507	CG2	VAL	X	298	33.506	40.261	59.503	0.00	0.00
ATOM	4508	HG21	VAL	X	298	34.086	39.339	59.544	0.00	0.00
ATOM	4509	HG22	VAL	X	298	33.949	40.960	58.793	0.00	0.00
ATOM	4510	HG23	VAL	X	298	33.412	40.669	60.510	0.00	0.00
ATOM	4511	C	VAL	X	298	30.667	38.975	57.104	0.00	0.00
ATOM	4512	O	VAL	X	298	30.052	39.920	56.696	0.00	0.00
ATOM	4513	N	VAL	X	299	30.080	37.763	57.229	0.00	0.00
ATOM	4514	H	VAL	X	299	30.728	37.036	57.496	0.00	0.00
ATOM	4515	CA	VAL	X	299	28.583	37.574	57.333	0.00	0.00
ATOM	4516	HA	VAL	X	299	28.113	38.021	56.457	0.00	0.00
ATOM	4517	CB	VAL	X	299	28.185	36.075	57.364	0.00	0.00
ATOM	4518	HB	VAL	X	299	28.685	35.648	58.233	0.00	0.00
ATOM	4519	CG1	VAL	X	299	26.742	35.608	57.533	0.00	0.00

ATOM	4520	HG11	VAL	X	299	26.346	35.817	58.527	0.00	0.00
ATOM	4521	HG12	VAL	X	299	26.042	35.963	56.776	0.00	0.00
ATOM	4522	HG13	VAL	X	299	26.798	34.520	57.564	0.00	0.00
ATOM	4523	CG2	VAL	X	299	28.773	35.464	56.100	0.00	0.00
ATOM	4524	HG21	VAL	X	299	29.859	35.498	56.181	0.00	0.00
ATOM	4525	HG22	VAL	X	299	28.697	34.381	56.003	0.00	0.00
ATOM	4526	HG23	VAL	X	299	28.507	35.890	55.133	0.00	0.00
ATOM	4527	C	VAL	X	299	28.124	38.244	58.664	0.00	0.00
ATOM	4528	O	VAL	X	299	28.221	37.697	59.730	0.00	0.00
ATOM	4529	N	ASP	X	300	27.728	39.529	58.570	0.00	0.00
ATOM	4530	H	ASP	X	300	28.018	39.992	57.721	0.00	0.00
ATOM	4531	CA	ASP	X	300	27.360	40.449	59.707	0.00	0.00
ATOM	4532	HA	ASP	X	300	27.812	39.907	60.538	0.00	0.00
ATOM	4533	CB	ASP	X	300	28.068	41.775	59.462	0.00	0.00
ATOM	4534	HB2	ASP	X	300	27.978	42.336	60.392	0.00	0.00
ATOM	4535	HB3	ASP	X	300	29.129	41.596	59.286	0.00	0.00
ATOM	4536	CG	ASP	X	300	27.499	42.621	58.283	0.00	0.00
ATOM	4537	OD1	ASP	X	300	27.765	42.202	57.122	0.00	0.00
ATOM	4538	OD2	ASP	X	300	26.953	43.710	58.593	0.00	0.00
ATOM	4539	C	ASP	X	300	25.842	40.600	59.915	0.00	0.00
ATOM	4540	O	ASP	X	300	25.387	41.053	60.952	0.00	0.00
ATOM	4541	N	GLY	X	301	25.011	40.202	58.880	0.00	0.00
ATOM	4542	H	GLY	X	301	25.423	39.690	58.112	0.00	0.00
ATOM	4543	CA	GLY	X	301	23.537	40.200	59.052	0.00	0.00
ATOM	4544	HA2	GLY	X	301	23.152	39.369	58.527	0.00	0.00
ATOM	4545	HA3	GLY	X	301	23.328	40.035	60.175	0.00	0.00
ATOM	4546	C	GLY	X	301	22.853	41.496	58.676	0.00	0.00
ATOM	4547	O	GLY	X	301	21.672	41.399	58.291	0.00	0.00
ATOM	4548	N	ASP	X	302	23.564	42.653	58.619	0.00	0.00
ATOM	4549	H	ASP	X	302	24.549	42.505	58.785	0.00	0.00
ATOM	4550	CA	ASP	X	302	23.070	43.992	58.212	0.00	0.00
ATOM	4551	HA	ASP	X	302	21.984	43.939	58.123	0.00	0.00
ATOM	4552	CB	ASP	X	302	23.431	45.063	59.163	0.00	0.00
ATOM	4553	HB2	ASP	X	302	23.026	44.899	60.162	0.00	0.00
ATOM	4554	HB3	ASP	X	302	24.499	45.065	59.379	0.00	0.00
ATOM	4555	CG	ASP	X	302	23.046	46.476	58.673	0.00	0.00
ATOM	4556	OD1	ASP	X	302	24.006	47.195	58.469	0.00	0.00
ATOM	4557	OD2	ASP	X	302	21.851	46.880	58.719	0.00	0.00
ATOM	4558	C	ASP	X	302	23.658	44.304	56.762	0.00	0.00
ATOM	4559	O	ASP	X	302	22.907	44.795	55.880	0.00	0.00
ATOM	4560	N	PHE	X	303	24.825	43.791	56.379	0.00	0.00
ATOM	4561	H	PHE	X	303	25.491	43.461	57.062	0.00	0.00
ATOM	4562	CA	PHE	X	303	25.189	43.732	54.948	0.00	0.00
ATOM	4563	HA	PHE	X	303	24.706	44.540	54.398	0.00	0.00
ATOM	4564	CB	PHE	X	303	26.704	43.932	54.922	0.00	0.00
ATOM	4565	HB2	PHE	X	303	27.156	44.424	55.783	0.00	0.00
ATOM	4566	HB3	PHE	X	303	27.214	42.969	54.898	0.00	0.00
ATOM	4567	CG	PHE	X	303	27.153	44.857	53.765	0.00	0.00
ATOM	4568	CD1	PHE	X	303	27.233	44.409	52.446	0.00	0.00
ATOM	4569	HD1	PHE	X	303	26.977	43.379	52.249	0.00	0.00
ATOM	4570	CE1	PHE	X	303	27.713	45.237	51.415	0.00	0.00
ATOM	4571	HE1	PHE	X	303	27.855	44.912	50.395	0.00	0.00
ATOM	4572	CZ	PHE	X	303	28.072	46.553	51.716	0.00	0.00
ATOM	4573	HZ	PHE	X	303	28.487	47.219	50.974	0.00	0.00
ATOM	4574	CE2	PHE	X	303	27.980	47.016	53.051	0.00	0.00
ATOM	4575	HE2	PHE	X	303	28.163	48.037	53.352	0.00	0.00
ATOM	4576	CD2	PHE	X	303	27.470	46.201	54.063	0.00	0.00
ATOM	4577	HD2	PHE	X	303	27.518	46.605	55.063	0.00	0.00
ATOM	4578	C	PHE	X	303	24.848	42.428	54.239	0.00	0.00
ATOM	4579	O	PHE	X	303	24.329	42.492	53.106	0.00	0.00
ATOM	4580	N	LEU	X	304	25.016	41.261	54.847	0.00	0.00
ATOM	4581	H	LEU	X	304	25.192	41.250	55.841	0.00	0.00
ATOM	4582	CA	LEU	X	304	24.789	39.882	54.119	0.00	0.00
ATOM	4583	HA	LEU	X	304	24.292	40.028	53.159	0.00	0.00
ATOM	4584	CB	LEU	X	304	26.148	39.098	54.050	0.00	0.00
ATOM	4585	HB2	LEU	X	304	26.436	39.072	55.101	0.00	0.00
ATOM	4586	HB3	LEU	X	304	25.973	38.152	53.538	0.00	0.00
ATOM	4587	CG	LEU	X	304	27.222	39.890	53.281	0.00	0.00
ATOM	4588	HG	LEU	X	304	27.298	40.896	53.693	0.00	0.00
ATOM	4589	CD1	LEU	X	304	28.532	39.198	53.326	0.00	0.00

ATOM	4590	HD11	LEU	X	304	29.294	39.785	52.814	0.00	0.00
ATOM	4591	HD12	LEU	X	304	28.897	39.038	54.341	0.00	0.00
ATOM	4592	HD13	LEU	X	304	28.498	38.202	52.886	0.00	0.00
ATOM	4593	CD2	LEU	X	304	26.907	40.042	51.792	0.00	0.00
ATOM	4594	HD21	LEU	X	304	26.762	39.010	51.472	0.00	0.00
ATOM	4595	HD22	LEU	X	304	25.959	40.536	51.577	0.00	0.00
ATOM	4596	HD23	LEU	X	304	27.687	40.598	51.272	0.00	0.00
ATOM	4597	C	LEU	X	304	23.945	39.082	55.055	0.00	0.00
ATOM	4598	O	LEU	X	304	24.189	39.030	56.271	0.00	0.00
ATOM	4599	N	SER	X	305	22.795	38.539	54.646	0.00	0.00
ATOM	4600	H	SER	X	305	22.597	38.478	53.658	0.00	0.00
ATOM	4601	CA	SER	X	305	21.887	37.807	55.603	0.00	0.00
ATOM	4602	HA	SER	X	305	21.728	38.296	56.564	0.00	0.00
ATOM	4603	CB	SER	X	305	20.484	37.699	54.935	0.00	0.00
ATOM	4604	HB2	SER	X	305	20.568	37.143	54.001	0.00	0.00
ATOM	4605	HB3	SER	X	305	19.744	37.198	55.559	0.00	0.00
ATOM	4606	OG	SER	X	305	20.061	39.042	54.792	0.00	0.00
ATOM	4607	HG	SER	X	305	19.305	39.144	54.209	0.00	0.00
ATOM	4608	C	SER	X	305	22.403	36.450	55.970	0.00	0.00
ATOM	4609	O	SER	X	305	21.703	35.766	56.713	0.00	0.00
ATOM	4610	N	ASP	X	306	23.516	36.006	55.276	0.00	0.00
ATOM	4611	H	ASP	X	306	24.063	36.698	54.785	0.00	0.00
ATOM	4612	CA	ASP	X	306	24.048	34.622	55.242	0.00	0.00
ATOM	4613	HA	ASP	X	306	24.233	34.321	56.273	0.00	0.00
ATOM	4614	CB	ASP	X	306	23.017	33.594	54.673	0.00	0.00
ATOM	4615	HB2	ASP	X	306	21.996	33.931	54.857	0.00	0.00
ATOM	4616	HB3	ASP	X	306	23.258	33.625	53.611	0.00	0.00
ATOM	4617	CG	ASP	X	306	23.295	32.145	55.156	0.00	0.00
ATOM	4618	OD1	ASP	X	306	22.604	31.249	54.667	0.00	0.00
ATOM	4619	OD2	ASP	X	306	24.110	31.903	56.060	0.00	0.00
ATOM	4620	C	ASP	X	306	25.400	34.560	54.510	0.00	0.00
ATOM	4621	O	ASP	X	306	25.878	35.579	53.953	0.00	0.00
ATOM	4622	N	THR	X	307	25.998	33.409	54.252	0.00	0.00
ATOM	4623	H	THR	X	307	25.618	32.597	54.716	0.00	0.00
ATOM	4624	CA	THR	X	307	27.081	33.175	53.263	0.00	0.00
ATOM	4625	HA	THR	X	307	27.988	33.653	53.633	0.00	0.00
ATOM	4626	CB	THR	X	307	27.529	31.684	53.408	0.00	0.00
ATOM	4627	HB	THR	X	307	28.109	31.381	52.537	0.00	0.00
ATOM	4628	CG2	THR	X	307	28.391	31.453	54.688	0.00	0.00
ATOM	4629	HG21	THR	X	307	27.970	31.869	55.603	0.00	0.00
ATOM	4630	HG22	THR	X	307	28.432	30.370	54.798	0.00	0.00
ATOM	4631	HG23	THR	X	307	29.383	31.887	54.556	0.00	0.00
ATOM	4632	OG1	THR	X	307	26.398	30.922	53.353	0.00	0.00
ATOM	4633	HG1	THR	X	307	25.979	31.170	52.526	0.00	0.00
ATOM	4634	C	THR	X	307	26.874	33.589	51.864	0.00	0.00
ATOM	4635	O	THR	X	307	25.813	33.199	51.352	0.00	0.00
ATOM	4636	N	PRO	X	308	27.765	34.262	51.129	0.00	0.00
ATOM	4637	CD	PRO	X	308	28.828	35.161	51.704	0.00	0.00
ATOM	4638	HD2	PRO	X	308	29.627	34.483	52.004	0.00	0.00
ATOM	4639	HD3	PRO	X	308	28.446	35.687	52.578	0.00	0.00
ATOM	4640	CG	PRO	X	308	29.261	35.974	50.483	0.00	0.00
ATOM	4641	HG2	PRO	X	308	30.262	36.399	50.555	0.00	0.00
ATOM	4642	HG3	PRO	X	308	28.521	36.757	50.316	0.00	0.00
ATOM	4643	CB	PRO	X	308	29.186	34.978	49.325	0.00	0.00
ATOM	4644	HB2	PRO	X	308	29.992	34.246	49.292	0.00	0.00
ATOM	4645	HB3	PRO	X	308	29.034	35.346	48.310	0.00	0.00
ATOM	4646	CA	PRO	X	308	27.770	34.370	49.673	0.00	0.00
ATOM	4647	HA	PRO	X	308	26.945	35.076	49.575	0.00	0.00
ATOM	4648	C	PRO	X	308	27.400	33.030	49.037	0.00	0.00
ATOM	4649	O	PRO	X	308	26.428	33.060	48.301	0.00	0.00
ATOM	4650	N	GLU	X	309	28.005	31.889	49.381	0.00	0.00
ATOM	4651	H	GLU	X	309	28.673	31.930	50.137	0.00	0.00
ATOM	4652	CA	GLU	X	309	27.773	30.585	48.749	0.00	0.00
ATOM	4653	HA	GLU	X	309	28.024	30.735	47.699	0.00	0.00
ATOM	4654	CB	GLU	X	309	28.701	29.564	49.379	0.00	0.00
ATOM	4655	HB2	GLU	X	309	29.738	29.783	49.122	0.00	0.00
ATOM	4656	HB3	GLU	X	309	28.589	29.509	50.462	0.00	0.00
ATOM	4657	CG	GLU	X	309	28.571	28.136	48.783	0.00	0.00
ATOM	4658	HG2	GLU	X	309	27.555	27.766	48.916	0.00	0.00
ATOM	4659	HG3	GLU	X	309	28.767	28.118	47.710	0.00	0.00

ATOM	4660	CD	GLU	X	309	29.561	27.231	49.549	0.00	0.00
ATOM	4661	OE1	GLU	X	309	29.231	26.765	50.679	0.00	0.00
ATOM	4662	OE2	GLU	X	309	30.674	27.052	48.998	0.00	0.00
ATOM	4663	C	GLU	X	309	26.344	30.062	48.857	0.00	0.00
ATOM	4664	O	GLU	X	309	25.887	29.434	47.938	0.00	0.00
ATOM	4665	N	ALA	X	310	25.603	30.482	49.879	0.00	0.00
ATOM	4666	H	ALA	X	310	25.947	31.225	50.471	0.00	0.00
ATOM	4667	CA	ALA	X	310	24.121	30.401	49.958	0.00	0.00
ATOM	4668	HA	ALA	X	310	23.846	29.460	49.481	0.00	0.00
ATOM	4669	CB	ALA	X	310	23.838	30.524	51.499	0.00	0.00
ATOM	4670	HB1	ALA	X	310	22.757	30.403	51.575	0.00	0.00
ATOM	4671	HB2	ALA	X	310	24.244	29.661	52.025	0.00	0.00
ATOM	4672	HB3	ALA	X	310	24.169	31.431	52.005	0.00	0.00
ATOM	4673	C	ALA	X	310	23.442	31.536	49.189	0.00	0.00
ATOM	4674	O	ALA	X	310	22.638	31.294	48.315	0.00	0.00
ATOM	4675	N	LEU	X	311	23.681	32.797	49.519	0.00	0.00
ATOM	4676	H	LEU	X	311	24.439	33.001	50.154	0.00	0.00
ATOM	4677	CA	LEU	X	311	23.031	33.942	48.810	0.00	0.00
ATOM	4678	HA	LEU	X	311	21.958	33.953	49.001	0.00	0.00
ATOM	4679	CB	LEU	X	311	23.555	35.231	49.445	0.00	0.00
ATOM	4680	HB2	LEU	X	311	24.638	35.156	49.350	0.00	0.00
ATOM	4681	HB3	LEU	X	311	23.140	36.032	48.834	0.00	0.00
ATOM	4682	CG	LEU	X	311	23.244	35.593	50.885	0.00	0.00
ATOM	4683	HG	LEU	X	311	23.845	34.855	51.416	0.00	0.00
ATOM	4684	CD1	LEU	X	311	23.957	36.864	51.223	0.00	0.00
ATOM	4685	HD11	LEU	X	311	23.548	37.379	52.093	0.00	0.00
ATOM	4686	HD12	LEU	X	311	25.035	36.787	51.368	0.00	0.00
ATOM	4687	HD13	LEU	X	311	23.901	37.588	50.410	0.00	0.00
ATOM	4688	CD2	LEU	X	311	21.782	35.617	51.304	0.00	0.00
ATOM	4689	HD21	LEU	X	311	21.266	36.281	50.611	0.00	0.00
ATOM	4690	HD22	LEU	X	311	21.399	34.605	51.173	0.00	0.00
ATOM	4691	HD23	LEU	X	311	21.766	36.042	52.307	0.00	0.00
ATOM	4692	C	LEU	X	311	23.120	33.967	47.284	0.00	0.00
ATOM	4693	O	LEU	X	311	22.193	34.504	46.680	0.00	0.00
ATOM	4694	N	ILE	X	312	24.114	33.400	46.559	0.00	0.00
ATOM	4695	H	ILE	X	312	24.831	32.968	47.124	0.00	0.00
ATOM	4696	CA	ILE	X	312	24.129	33.394	45.026	0.00	0.00
ATOM	4697	HA	ILE	X	312	23.965	34.424	44.709	0.00	0.00
ATOM	4698	CB	ILE	X	312	25.568	32.946	44.530	0.00	0.00
ATOM	4699	HB	ILE	X	312	25.500	32.865	43.445	0.00	0.00
ATOM	4700	CG2	ILE	X	312	26.552	34.062	44.819	0.00	0.00
ATOM	4701	HG21	ILE	X	312	26.393	34.895	44.135	0.00	0.00
ATOM	4702	HG22	ILE	X	312	26.479	34.402	45.852	0.00	0.00
ATOM	4703	HG23	ILE	X	312	27.604	33.788	44.745	0.00	0.00
ATOM	4704	CG1	ILE	X	312	26.038	31.608	45.100	0.00	0.00
ATOM	4705	HG12	ILE	X	312	26.546	31.746	46.054	0.00	0.00
ATOM	4706	HG13	ILE	X	312	25.240	30.888	45.284	0.00	0.00
ATOM	4707	CD1	ILE	X	312	27.105	30.938	44.282	0.00	0.00
ATOM	4708	HD11	ILE	X	312	27.906	31.666	44.158	0.00	0.00
ATOM	4709	HD12	ILE	X	312	27.461	30.119	44.907	0.00	0.00
ATOM	4710	HD13	ILE	X	312	26.707	30.638	43.312	0.00	0.00
ATOM	4711	C	ILE	X	312	23.071	32.514	44.361	0.00	0.00
ATOM	4712	O	ILE	X	312	22.831	32.791	43.165	0.00	0.00
ATOM	4713	N	ASN	X	313	22.527	31.519	44.944	0.00	0.00
ATOM	4714	H	ASN	X	313	22.662	31.408	45.939	0.00	0.00
ATOM	4715	CA	ASN	X	313	21.384	30.663	44.472	0.00	0.00
ATOM	4716	HA	ASN	X	313	21.406	30.692	43.382	0.00	0.00
ATOM	4717	CB	ASN	X	313	21.762	29.217	44.914	0.00	0.00
ATOM	4718	HB2	ASN	X	313	22.806	28.956	44.739	0.00	0.00
ATOM	4719	HB3	ASN	X	313	21.623	29.144	45.993	0.00	0.00
ATOM	4720	CG	ASN	X	313	20.781	28.179	44.288	0.00	0.00
ATOM	4721	OD1	ASN	X	313	20.358	28.225	43.143	0.00	0.00
ATOM	4722	ND2	ASN	X	313	20.678	27.020	44.940	0.00	0.00
ATOM	4723	HD21	ASN	X	313	20.179	26.278	44.471	0.00	0.00
ATOM	4724	HD22	ASN	X	313	21.079	26.933	45.863	0.00	0.00
ATOM	4725	C	ASN	X	313	19.997	31.178	44.857	0.00	0.00
ATOM	4726	O	ASN	X	313	18.937	30.761	44.290	0.00	0.00
ATOM	4727	N	ALA	X	314	19.944	31.938	46.020	0.00	0.00
ATOM	4728	H	ALA	X	314	20.842	32.072	46.460	0.00	0.00
ATOM	4729	CA	ALA	X	314	18.682	32.362	46.666	0.00	0.00

ATOM	4730	HA	ALA	X	314	17.905	31.629	46.448	0.00	0.00
ATOM	4731	CB	ALA	X	314	18.882	32.398	48.193	0.00	0.00
ATOM	4732	HB1	ALA	X	314	17.917	32.691	48.608	0.00	0.00
ATOM	4733	HB2	ALA	X	314	19.168	31.397	48.517	0.00	0.00
ATOM	4734	HB3	ALA	X	314	19.679	33.109	48.411	0.00	0.00
ATOM	4735	C	ALA	X	314	18.170	33.660	46.064	0.00	0.00
ATOM	4736	O	ALA	X	314	17.030	34.054	46.351	0.00	0.00
ATOM	4737	N	GLY	X	315	19.003	34.386	45.352	0.00	0.00
ATOM	4738	H	GLY	X	315	19.766	33.931	44.871	0.00	0.00
ATOM	4739	CA	GLY	X	315	18.701	35.830	45.007	0.00	0.00
ATOM	4740	HA2	GLY	X	315	17.794	36.114	45.557	0.00	0.00
ATOM	4741	HA3	GLY	X	315	19.436	36.493	45.484	0.00	0.00
ATOM	4742	C	GLY	X	315	18.477	36.177	43.499	0.00	0.00
ATOM	4743	O	GLY	X	315	18.605	35.314	42.629	0.00	0.00
ATOM	4744	N	ASP	X	316	17.912	37.364	43.326	0.00	0.00
ATOM	4745	H	ASP	X	316	17.642	37.926	44.121	0.00	0.00
ATOM	4746	CA	ASP	X	316	17.165	37.710	42.130	0.00	0.00
ATOM	4747	HA	ASP	X	316	16.907	36.766	41.649	0.00	0.00
ATOM	4748	CB	ASP	X	316	15.765	38.228	42.560	0.00	0.00
ATOM	4749	HB2	ASP	X	316	15.319	37.450	43.180	0.00	0.00
ATOM	4750	HB3	ASP	X	316	15.984	39.125	43.140	0.00	0.00
ATOM	4751	CG	ASP	X	316	14.787	38.503	41.450	0.00	0.00
ATOM	4752	OD1	ASP	X	316	13.910	39.309	41.740	0.00	0.00
ATOM	4753	OD2	ASP	X	316	14.914	37.813	40.441	0.00	0.00
ATOM	4754	C	ASP	X	316	17.916	38.712	41.301	0.00	0.00
ATOM	4755	O	ASP	X	316	17.981	39.853	41.665	0.00	0.00
ATOM	4756	N	PHE	X	317	18.529	38.214	40.251	0.00	0.00
ATOM	4757	H	PHE	X	317	18.530	37.214	40.115	0.00	0.00
ATOM	4758	CA	PHE	X	317	19.366	38.974	39.333	0.00	0.00
ATOM	4759	HA	PHE	X	317	19.424	39.990	39.723	0.00	0.00
ATOM	4760	CB	PHE	X	317	20.742	38.319	39.363	0.00	0.00
ATOM	4761	HB2	PHE	X	317	20.746	37.527	38.615	0.00	0.00
ATOM	4762	HB3	PHE	X	317	21.448	39.029	38.931	0.00	0.00
ATOM	4763	CG	PHE	X	317	21.324	37.911	40.692	0.00	0.00
ATOM	4764	CD1	PHE	X	317	21.863	38.911	41.564	0.00	0.00
ATOM	4765	HD1	PHE	X	317	21.977	39.886	41.112	0.00	0.00
ATOM	4766	CE1	PHE	X	317	22.446	38.593	42.739	0.00	0.00
ATOM	4767	HE1	PHE	X	317	22.943	39.333	43.349	0.00	0.00
ATOM	4768	CZ	PHE	X	317	22.244	37.275	43.295	0.00	0.00
ATOM	4769	HZ	PHE	X	317	22.408	36.941	44.309	0.00	0.00
ATOM	4770	CE2	PHE	X	317	21.763	36.244	42.400	0.00	0.00
ATOM	4771	HE2	PHE	X	317	21.868	35.216	42.716	0.00	0.00
ATOM	4772	CD2	PHE	X	317	21.218	36.581	41.164	0.00	0.00
ATOM	4773	HD2	PHE	X	317	20.751	35.838	40.534	0.00	0.00
ATOM	4774	C	PHE	X	317	18.760	39.047	37.911	0.00	0.00
ATOM	4775	O	PHE	X	317	19.517	39.217	36.969	0.00	0.00
ATOM	4776	N	HIE	X	318	17.452	38.781	37.718	0.00	0.00
ATOM	4777	H	HIE	X	318	16.922	38.382	38.479	0.00	0.00
ATOM	4778	CA	HIE	X	318	16.780	38.624	36.425	0.00	0.00
ATOM	4779	HA	HIE	X	318	17.150	37.742	35.902	0.00	0.00
ATOM	4780	CB	HIE	X	318	15.293	38.399	36.748	0.00	0.00
ATOM	4781	HB2	HIE	X	318	15.334	37.582	37.468	0.00	0.00
ATOM	4782	HB3	HIE	X	318	14.942	39.288	37.272	0.00	0.00
ATOM	4783	CG	HIE	X	318	14.374	37.998	35.593	0.00	0.00
ATOM	4784	ND1	HIE	X	318	14.736	38.320	34.259	0.00	0.00
ATOM	4785	CE1	HIE	X	318	13.660	37.976	33.580	0.00	0.00
ATOM	4786	HE1	HIE	X	318	13.574	38.060	32.506	0.00	0.00
ATOM	4787	NE2	HIE	X	318	12.678	37.347	34.335	0.00	0.00
ATOM	4788	HE2	HIE	X	318	11.748	37.121	34.013	0.00	0.00
ATOM	4789	CD2	HIE	X	318	13.171	37.323	35.666	0.00	0.00
ATOM	4790	HD2	HIE	X	318	12.702	37.035	36.595	0.00	0.00
ATOM	4791	C	HIE	X	318	17.024	39.858	35.521	0.00	0.00
ATOM	4792	O	HIE	X	318	16.494	40.940	35.793	0.00	0.00
ATOM	4793	N	GLY	X	319	17.793	39.689	34.422	0.00	0.00
ATOM	4794	H	GLY	X	319	18.070	38.778	34.086	0.00	0.00
ATOM	4795	CA	GLY	X	319	18.044	40.853	33.524	0.00	0.00
ATOM	4796	HA2	GLY	X	319	18.430	40.373	32.596	0.00	0.00
ATOM	4797	HA3	GLY	X	319	17.072	41.377	33.242	0.00	0.00
ATOM	4798	C	GLY	X	319	19.157	41.821	34.034	0.00	0.00
ATOM	4799	O	GLY	X	319	19.642	42.677	33.274	0.00	0.00

ATOM	4800	N	LEU	X	320	19.714	41.576	35.233	0.00	0.00
ATOM	4801	H	LEU	X	320	19.473	40.795	35.826	0.00	0.00
ATOM	4802	CA	LEU	X	320	20.945	42.332	35.664	0.00	0.00
ATOM	4803	HA	LEU	X	320	20.730	43.348	35.333	0.00	0.00
ATOM	4804	CB	LEU	X	320	21.320	42.251	37.208	0.00	0.00
ATOM	4805	HB2	LEU	X	320	21.159	41.201	37.452	0.00	0.00
ATOM	4806	HB3	LEU	X	320	22.369	42.528	37.320	0.00	0.00
ATOM	4807	CG	LEU	X	320	20.337	42.997	38.135	0.00	0.00
ATOM	4808	HG	LEU	X	320	20.401	44.066	37.933	0.00	0.00
ATOM	4809	CD1	LEU	X	320	18.849	42.736	37.911	0.00	0.00
ATOM	4810	HD11	LEU	X	320	18.439	43.125	38.843	0.00	0.00
ATOM	4811	HD12	LEU	X	320	18.504	43.288	37.036	0.00	0.00
ATOM	4812	HD13	LEU	X	320	18.620	41.675	37.816	0.00	0.00
ATOM	4813	CD2	LEU	X	320	20.802	42.839	39.609	0.00	0.00
ATOM	4814	HD21	LEU	X	320	20.486	43.598	40.324	0.00	0.00
ATOM	4815	HD22	LEU	X	320	20.339	41.902	39.919	0.00	0.00
ATOM	4816	HD23	LEU	X	320	21.892	42.822	39.592	0.00	0.00
ATOM	4817	C	LEU	X	320	22.190	41.881	34.838	0.00	0.00
ATOM	4818	O	LEU	X	320	22.260	40.720	34.409	0.00	0.00
ATOM	4819	N	GLN	X	321	23.197	42.743	34.633	0.00	0.00
ATOM	4820	H	GLN	X	321	23.042	43.658	35.031	0.00	0.00
ATOM	4821	CA	GLN	X	321	24.214	42.635	33.563	0.00	0.00
ATOM	4822	HA	GLN	X	321	24.045	41.818	32.861	0.00	0.00
ATOM	4823	CB	GLN	X	321	24.304	43.949	32.795	0.00	0.00
ATOM	4824	HB2	GLN	X	321	24.335	44.759	33.523	0.00	0.00
ATOM	4825	HB3	GLN	X	321	25.220	43.963	32.204	0.00	0.00
ATOM	4826	CG	GLN	X	321	23.114	44.007	31.874	0.00	0.00
ATOM	4827	HG2	GLN	X	321	23.334	43.442	30.968	0.00	0.00
ATOM	4828	HG3	GLN	X	321	22.257	43.477	32.288	0.00	0.00
ATOM	4829	CD	GLN	X	321	22.714	45.430	31.345	0.00	0.00
ATOM	4830	OE1	GLN	X	321	23.328	46.480	31.627	0.00	0.00
ATOM	4831	NE2	GLN	X	321	21.768	45.386	30.416	0.00	0.00
ATOM	4832	HE21	GLN	X	321	21.508	46.214	29.900	0.00	0.00
ATOM	4833	HE22	GLN	X	321	21.422	44.487	30.112	0.00	0.00
ATOM	4834	C	GLN	X	321	25.480	42.410	34.401	0.00	0.00
ATOM	4835	O	GLN	X	321	25.928	43.398	35.014	0.00	0.00
ATOM	4836	N	VAL	X	322	26.136	41.210	34.407	0.00	0.00
ATOM	4837	H	VAL	X	322	25.694	40.495	33.847	0.00	0.00
ATOM	4838	CA	VAL	X	322	27.399	40.820	35.109	0.00	0.00
ATOM	4839	HA	VAL	X	322	27.913	41.704	35.489	0.00	0.00
ATOM	4840	CB	VAL	X	322	27.069	39.885	36.260	0.00	0.00
ATOM	4841	HB	VAL	X	322	26.704	38.939	35.862	0.00	0.00
ATOM	4842	CG1	VAL	X	322	28.239	39.519	37.104	0.00	0.00
ATOM	4843	HG11	VAL	X	322	29.141	39.144	36.621	0.00	0.00
ATOM	4844	HG12	VAL	X	322	28.555	40.381	37.691	0.00	0.00
ATOM	4845	HG13	VAL	X	322	28.024	38.741	37.837	0.00	0.00
ATOM	4846	CG2	VAL	X	322	26.091	40.472	37.224	0.00	0.00
ATOM	4847	HG21	VAL	X	322	26.426	41.433	37.616	0.00	0.00
ATOM	4848	HG22	VAL	X	322	25.148	40.624	36.698	0.00	0.00
ATOM	4849	HG23	VAL	X	322	25.894	39.755	38.021	0.00	0.00
ATOM	4850	C	VAL	X	322	28.527	40.222	34.260	0.00	0.00
ATOM	4851	O	VAL	X	322	28.173	39.620	33.235	0.00	0.00
ATOM	4852	N	LEU	X	323	29.822	40.499	34.534	0.00	0.00
ATOM	4853	H	LEU	X	323	29.980	41.096	35.334	0.00	0.00
ATOM	4854	CA	LEU	X	323	30.995	39.862	33.971	0.00	0.00
ATOM	4855	HA	LEU	X	323	30.865	39.214	33.105	0.00	0.00
ATOM	4856	CB	LEU	X	323	31.781	41.032	33.290	0.00	0.00
ATOM	4857	HB2	LEU	X	323	31.016	41.735	32.959	0.00	0.00
ATOM	4858	HB3	LEU	X	323	32.380	41.566	34.027	0.00	0.00
ATOM	4859	CG	LEU	X	323	32.803	40.705	32.197	0.00	0.00
ATOM	4860	HG	LEU	X	323	32.447	39.832	31.650	0.00	0.00
ATOM	4861	CD1	LEU	X	323	32.837	41.864	31.193	0.00	0.00
ATOM	4862	HD11	LEU	X	323	31.873	42.189	30.801	0.00	0.00
ATOM	4863	HD12	LEU	X	323	33.407	42.779	31.349	0.00	0.00
ATOM	4864	HD13	LEU	X	323	33.495	41.591	30.368	0.00	0.00
ATOM	4865	CD2	LEU	X	323	34.204	40.448	32.856	0.00	0.00
ATOM	4866	HD21	LEU	X	323	34.090	39.893	33.787	0.00	0.00
ATOM	4867	HD22	LEU	X	323	34.739	39.660	32.324	0.00	0.00
ATOM	4868	HD23	LEU	X	323	34.806	41.355	32.913	0.00	0.00
ATOM	4869	C	LEU	X	323	31.822	39.159	35.016	0.00	0.00

ATOM	4870	O	LEU	X	323	32.067	39.785	36.046	0.00	0.00
ATOM	4871	N	VAL	X	324	32.142	37.877	34.835	0.00	0.00
ATOM	4872	H	VAL	X	324	32.075	37.499	33.900	0.00	0.00
ATOM	4873	CA	VAL	X	324	32.954	37.069	35.828	0.00	0.00
ATOM	4874	HA	VAL	X	324	33.381	37.712	36.598	0.00	0.00
ATOM	4875	CB	VAL	X	324	32.062	36.038	36.623	0.00	0.00
ATOM	4876	HB	VAL	X	324	31.904	35.261	35.875	0.00	0.00
ATOM	4877	CG1	VAL	X	324	33.018	35.508	37.800	0.00	0.00
ATOM	4878	HG11	VAL	X	324	34.068	35.480	37.509	0.00	0.00
ATOM	4879	HG12	VAL	X	324	32.966	36.168	38.666	0.00	0.00
ATOM	4880	HG13	VAL	X	324	32.772	34.521	38.190	0.00	0.00
ATOM	4881	CG2	VAL	X	324	30.679	36.439	37.076	0.00	0.00
ATOM	4882	HG21	VAL	X	324	30.076	36.577	36.179	0.00	0.00
ATOM	4883	HG22	VAL	X	324	30.221	35.666	37.694	0.00	0.00
ATOM	4884	HG23	VAL	X	324	30.708	37.313	37.726	0.00	0.00
ATOM	4885	C	VAL	X	324	34.049	36.290	35.086	0.00	0.00
ATOM	4886	O	VAL	X	324	33.713	35.528	34.156	0.00	0.00
ATOM	4887	N	GLY	X	325	35.363	36.516	35.482	0.00	0.00
ATOM	4888	H	GLY	X	325	35.540	37.198	36.206	0.00	0.00
ATOM	4889	CA	GLY	X	325	36.471	35.715	34.915	0.00	0.00
ATOM	4890	HA2	GLY	X	325	36.232	34.712	35.096	0.00	0.00
ATOM	4891	HA3	GLY	X	325	36.556	35.795	33.850	0.00	0.00
ATOM	4892	C	GLY	X	325	37.823	35.837	35.590	0.00	0.00
ATOM	4893	O	GLY	X	325	37.912	36.473	36.659	0.00	0.00
ATOM	4894	N	VAL	X	326	38.899	35.263	35.035	0.00	0.00
ATOM	4895	H	VAL	X	326	38.924	35.069	34.044	0.00	0.00
ATOM	4896	CA	VAL	X	326	39.994	34.664	35.773	0.00	0.00
ATOM	4897	HA	VAL	X	326	40.188	35.334	36.610	0.00	0.00
ATOM	4898	CB	VAL	X	326	39.719	33.094	36.143	0.00	0.00
ATOM	4899	HB	VAL	X	326	40.514	32.762	36.809	0.00	0.00
ATOM	4900	CG1	VAL	X	326	38.357	32.816	36.771	0.00	0.00
ATOM	4901	HG11	VAL	X	326	38.188	33.462	37.632	0.00	0.00
ATOM	4902	HG12	VAL	X	326	37.566	32.929	36.029	0.00	0.00
ATOM	4903	HG13	VAL	X	326	38.193	31.846	37.239	0.00	0.00
ATOM	4904	CG2	VAL	X	326	39.813	32.091	35.039	0.00	0.00
ATOM	4905	HG21	VAL	X	326	39.139	32.309	34.211	0.00	0.00
ATOM	4906	HG22	VAL	X	326	40.854	32.051	34.719	0.00	0.00
ATOM	4907	HG23	VAL	X	326	39.681	31.110	35.498	0.00	0.00
ATOM	4908	C	VAL	X	326	41.334	34.640	35.017	0.00	0.00
ATOM	4909	O	VAL	X	326	41.279	34.834	33.772	0.00	0.00
ATOM	4910	N	VAL	X	327	42.514	34.453	35.684	0.00	0.00
ATOM	4911	H	VAL	X	327	42.480	34.438	36.694	0.00	0.00
ATOM	4912	CA	VAL	X	327	43.790	34.293	35.032	0.00	0.00
ATOM	4913	HA	VAL	X	327	43.586	34.596	34.005	0.00	0.00
ATOM	4914	CB	VAL	X	327	44.909	35.073	35.836	0.00	0.00
ATOM	4915	HB	VAL	X	327	44.796	34.846	36.896	0.00	0.00
ATOM	4916	CG1	VAL	X	327	46.239	34.594	35.289	0.00	0.00
ATOM	4917	HG11	VAL	X	327	46.464	33.607	35.692	0.00	0.00
ATOM	4918	HG12	VAL	X	327	46.203	34.608	34.199	0.00	0.00
ATOM	4919	HG13	VAL	X	327	46.982	35.334	35.588	0.00	0.00
ATOM	4920	CG2	VAL	X	327	44.640	36.562	35.619	0.00	0.00
ATOM	4921	HG21	VAL	X	327	43.807	36.882	36.245	0.00	0.00
ATOM	4922	HG22	VAL	X	327	45.488	37.162	35.949	0.00	0.00
ATOM	4923	HG23	VAL	X	327	44.300	36.736	34.598	0.00	0.00
ATOM	4924	C	VAL	X	327	44.094	32.683	35.025	0.00	0.00
ATOM	4925	O	VAL	X	327	43.664	31.919	35.892	0.00	0.00
ATOM	4926	N	LYS	X	328	44.861	32.197	34.105	0.00	0.00
ATOM	4927	H	LYS	X	328	45.133	32.955	33.495	0.00	0.00
ATOM	4928	CA	LYS	X	328	45.126	30.847	33.843	0.00	0.00
ATOM	4929	HA	LYS	X	328	44.243	30.350	33.443	0.00	0.00
ATOM	4930	CB	LYS	X	328	46.228	30.847	32.789	0.00	0.00
ATOM	4931	HB2	LYS	X	328	45.723	31.362	31.972	0.00	0.00
ATOM	4932	HB3	LYS	X	328	47.143	31.418	32.948	0.00	0.00
ATOM	4933	CG	LYS	X	328	46.613	29.418	32.401	0.00	0.00
ATOM	4934	HG2	LYS	X	328	47.124	28.949	33.241	0.00	0.00
ATOM	4935	HG3	LYS	X	328	45.722	28.855	32.123	0.00	0.00
ATOM	4936	CD	LYS	X	328	47.481	29.303	31.155	0.00	0.00
ATOM	4937	HD2	LYS	X	328	47.338	28.287	30.789	0.00	0.00
ATOM	4938	HD3	LYS	X	328	47.164	29.857	30.272	0.00	0.00
ATOM	4939	CE	LYS	X	328	48.995	29.495	31.462	0.00	0.00

ATOM	4940	HE2	LYS	X	328	49.520	29.763	30.545	0.00	0.00
ATOM	4941	HE3	LYS	X	328	49.157	30.357	32.108	0.00	0.00
ATOM	4942	NZ	LYS	X	328	49.618	28.333	32.078	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	49.446	27.516	31.509	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	50.609	28.449	32.229	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	49.220	28.236	33.002	0.00	0.00
ATOM	4946	C	LYS	X	328	45.532	29.985	35.079	0.00	0.00
ATOM	4947	O	LYS	X	328	45.121	28.861	35.269	0.00	0.00
ATOM	4948	N	ASP	X	329	46.509	30.461	35.857	0.00	0.00
ATOM	4949	H	ASP	X	329	46.831	31.371	35.559	0.00	0.00
ATOM	4950	CA	ASP	X	329	47.250	29.804	36.890	0.00	0.00
ATOM	4951	HA	ASP	X	329	46.964	28.758	37.007	0.00	0.00
ATOM	4952	CB	ASP	X	329	48.805	29.751	36.464	0.00	0.00
ATOM	4953	HB2	ASP	X	329	49.109	30.794	36.556	0.00	0.00
ATOM	4954	HB3	ASP	X	329	49.265	29.077	37.187	0.00	0.00
ATOM	4955	CG	ASP	X	329	49.046	29.327	35.066	0.00	0.00
ATOM	4956	OD1	ASP	X	329	49.106	28.113	34.785	0.00	0.00
ATOM	4957	OD2	ASP	X	329	49.280	30.189	34.200	0.00	0.00
ATOM	4958	C	ASP	X	329	47.070	30.469	38.213	0.00	0.00
ATOM	4959	O	ASP	X	329	48.077	30.781	38.834	0.00	0.00
ATOM	4960	N	GLU	X	330	45.809	30.697	38.637	0.00	0.00
ATOM	4961	H	GLU	X	330	45.116	30.393	37.968	0.00	0.00
ATOM	4962	CA	GLU	X	330	45.478	31.416	39.874	0.00	0.00
ATOM	4963	HA	GLU	X	330	45.707	32.462	39.673	0.00	0.00
ATOM	4964	CB	GLU	X	330	43.979	31.238	40.287	0.00	0.00
ATOM	4965	HB2	GLU	X	330	43.657	30.197	40.287	0.00	0.00
ATOM	4966	HB3	GLU	X	330	43.956	31.639	41.300	0.00	0.00
ATOM	4967	CG	GLU	X	330	42.956	31.972	39.434	0.00	0.00
ATOM	4968	HG2	GLU	X	330	43.075	31.578	38.425	0.00	0.00
ATOM	4969	HG3	GLU	X	330	41.982	31.671	39.821	0.00	0.00
ATOM	4970	CD	GLU	X	330	43.192	33.466	39.360	0.00	0.00
ATOM	4971	OE1	GLU	X	330	43.652	33.979	40.418	0.00	0.00
ATOM	4972	OE2	GLU	X	330	42.829	34.137	38.371	0.00	0.00
ATOM	4973	C	GLU	X	330	46.302	30.953	41.121	0.00	0.00
ATOM	4974	O	GLU	X	330	46.981	31.793	41.718	0.00	0.00
ATOM	4975	N	GLY	X	331	46.210	29.651	41.444	0.00	0.00
ATOM	4976	H	GLY	X	331	45.675	29.116	40.776	0.00	0.00
ATOM	4977	CA	GLY	X	331	46.860	29.050	42.604	0.00	0.00
ATOM	4978	HA2	GLY	X	331	46.450	29.416	43.506	0.00	0.00
ATOM	4979	HA3	GLY	X	331	46.716	27.981	42.491	0.00	0.00
ATOM	4980	C	GLY	X	331	48.367	29.247	42.730	0.00	0.00
ATOM	4981	O	GLY	X	331	48.877	29.208	43.848	0.00	0.00
ATOM	4982	N	SER	X	332	49.046	29.595	41.609	0.00	0.00
ATOM	4983	H	SER	X	332	48.590	29.583	40.708	0.00	0.00
ATOM	4984	CA	SER	X	332	50.534	29.762	41.559	0.00	0.00
ATOM	4985	HA	SER	X	332	50.953	28.783	41.793	0.00	0.00
ATOM	4986	CB	SER	X	332	51.126	30.113	40.176	0.00	0.00
ATOM	4987	HB2	SER	X	332	50.756	31.060	39.783	0.00	0.00
ATOM	4988	HB3	SER	X	332	52.191	30.197	40.391	0.00	0.00
ATOM	4989	OG	SER	X	332	51.052	28.963	39.379	0.00	0.00
ATOM	4990	HG	SER	X	332	50.947	29.345	38.505	0.00	0.00
ATOM	4991	C	SER	X	332	51.074	30.812	42.512	0.00	0.00
ATOM	4992	O	SER	X	332	52.100	30.581	43.203	0.00	0.00
ATOM	4993	N	TYR	X	333	50.431	31.920	42.543	0.00	0.00
ATOM	4994	H	TYR	X	333	49.544	31.924	42.059	0.00	0.00
ATOM	4995	CA	TYR	X	333	50.700	33.098	43.382	0.00	0.00
ATOM	4996	HA	TYR	X	333	51.607	33.588	43.027	0.00	0.00
ATOM	4997	CB	TYR	X	333	49.596	34.153	43.049	0.00	0.00
ATOM	4998	HB2	TYR	X	333	49.387	34.365	42.001	0.00	0.00
ATOM	4999	HB3	TYR	X	333	48.624	33.782	43.374	0.00	0.00
ATOM	5000	CG	TYR	X	333	49.788	35.598	43.558	0.00	0.00
ATOM	5001	CD1	TYR	X	333	50.900	36.363	43.131	0.00	0.00
ATOM	5002	HD1	TYR	X	333	51.572	36.180	42.305	0.00	0.00
ATOM	5003	CE1	TYR	X	333	51.062	37.683	43.678	0.00	0.00
ATOM	5004	HE1	TYR	X	333	51.806	38.351	43.270	0.00	0.00
ATOM	5005	CZ	TYR	X	333	50.303	38.031	44.809	0.00	0.00
ATOM	5006	OH	TYR	X	333	50.598	39.222	45.501	0.00	0.00
ATOM	5007	HH	TYR	X	333	51.251	39.729	45.014	0.00	0.00
ATOM	5008	CE2	TYR	X	333	49.278	37.181	45.279	0.00	0.00
ATOM	5009	HE2	TYR	X	333	48.744	37.474	46.170	0.00	0.00

ATOM	5010	CD2	TYR	X	333	49.044	35.966	44.643	0.00	0.00
ATOM	5011	HD2	TYR	X	333	48.243	35.305	44.941	0.00	0.00
ATOM	5012	C	TYR	X	333	50.637	32.833	44.938	0.00	0.00
ATOM	5013	O	TYR	X	333	51.374	33.445	45.720	0.00	0.00
ATOM	5014	N	PHE	X	334	49.748	31.935	45.411	0.00	0.00
ATOM	5015	H	PHE	X	334	49.221	31.518	44.658	0.00	0.00
ATOM	5016	CA	PHE	X	334	49.632	31.339	46.771	0.00	0.00
ATOM	5017	HA	PHE	X	334	49.883	32.123	47.486	0.00	0.00
ATOM	5018	CB	PHE	X	334	48.146	30.975	46.959	0.00	0.00
ATOM	5019	HB2	PHE	X	334	47.895	30.181	46.256	0.00	0.00
ATOM	5020	HB3	PHE	X	334	47.835	30.563	47.919	0.00	0.00
ATOM	5021	CG	PHE	X	334	47.279	32.228	46.933	0.00	0.00
ATOM	5022	CD1	PHE	X	334	46.675	32.564	45.730	0.00	0.00
ATOM	5023	HD1	PHE	X	334	46.903	32.043	44.812	0.00	0.00
ATOM	5024	CE1	PHE	X	334	45.825	33.657	45.685	0.00	0.00
ATOM	5025	HE1	PHE	X	334	45.328	33.918	44.763	0.00	0.00
ATOM	5026	CZ	PHE	X	334	45.522	34.407	46.860	0.00	0.00
ATOM	5027	HZ	PHE	X	334	44.825	35.229	46.792	0.00	0.00
ATOM	5028	CE2	PHE	X	334	46.134	34.059	48.062	0.00	0.00
ATOM	5029	HE2	PHE	X	334	45.917	34.613	48.964	0.00	0.00
ATOM	5030	CD2	PHE	X	334	47.043	33.000	48.102	0.00	0.00
ATOM	5031	HD2	PHE	X	334	47.482	32.675	49.034	0.00	0.00
ATOM	5032	C	PHE	X	334	50.600	30.082	46.930	0.00	0.00
ATOM	5033	O	PHE	X	334	51.082	29.872	48.043	0.00	0.00
ATOM	5034	N	LEU	X	335	50.980	29.444	45.796	0.00	0.00
ATOM	5035	H	LEU	X	335	50.525	29.653	44.919	0.00	0.00
ATOM	5036	CA	LEU	X	335	52.043	28.342	45.909	0.00	0.00
ATOM	5037	HA	LEU	X	335	51.851	27.845	46.860	0.00	0.00
ATOM	5038	CB	LEU	X	335	51.969	27.404	44.707	0.00	0.00
ATOM	5039	HB2	LEU	X	335	51.771	27.889	43.751	0.00	0.00
ATOM	5040	HB3	LEU	X	335	52.880	26.834	44.527	0.00	0.00
ATOM	5041	CG	LEU	X	335	50.697	26.550	44.813	0.00	0.00
ATOM	5042	HG	LEU	X	335	49.804	27.078	45.148	0.00	0.00
ATOM	5043	CD1	LEU	X	335	50.395	25.965	43.402	0.00	0.00
ATOM	5044	HD11	LEU	X	335	50.026	26.818	42.833	0.00	0.00
ATOM	5045	HD12	LEU	X	335	51.298	25.504	43.001	0.00	0.00
ATOM	5046	HD13	LEU	X	335	49.658	25.165	43.464	0.00	0.00
ATOM	5047	CD2	LEU	X	335	51.006	25.305	45.591	0.00	0.00
ATOM	5048	HD21	LEU	X	335	51.788	24.851	44.982	0.00	0.00
ATOM	5049	HD22	LEU	X	335	51.375	25.568	46.582	0.00	0.00
ATOM	5050	HD23	LEU	X	335	50.115	24.681	45.652	0.00	0.00
ATOM	5051	C	LEU	X	335	53.485	28.933	46.137	0.00	0.00
ATOM	5052	O	LEU	X	335	54.268	28.356	46.887	0.00	0.00
ATOM	5053	N	VAL	X	336	53.870	30.090	45.534	0.00	0.00
ATOM	5054	H	VAL	X	336	53.384	30.343	44.685	0.00	0.00
ATOM	5055	CA	VAL	X	336	55.163	30.758	45.834	0.00	0.00
ATOM	5056	HA	VAL	X	336	55.882	29.939	45.815	0.00	0.00
ATOM	5057	CB	VAL	X	336	55.506	31.701	44.654	0.00	0.00
ATOM	5058	HB	VAL	X	336	55.305	31.219	43.697	0.00	0.00
ATOM	5059	CG1	VAL	X	336	54.700	33.019	44.639	0.00	0.00
ATOM	5060	HG11	VAL	X	336	54.841	33.582	43.717	0.00	0.00
ATOM	5061	HG12	VAL	X	336	53.665	32.678	44.621	0.00	0.00
ATOM	5062	HG13	VAL	X	336	54.959	33.658	45.483	0.00	0.00
ATOM	5063	CG2	VAL	X	336	56.991	32.016	44.616	0.00	0.00
ATOM	5064	HG21	VAL	X	336	57.309	32.715	45.389	0.00	0.00
ATOM	5065	HG22	VAL	X	336	57.587	31.127	44.824	0.00	0.00
ATOM	5066	HG23	VAL	X	336	57.340	32.621	43.780	0.00	0.00
ATOM	5067	C	VAL	X	336	55.223	31.427	47.240	0.00	0.00
ATOM	5068	O	VAL	X	336	56.045	32.326	47.471	0.00	0.00
ATOM	5069	N	TYR	X	337	54.174	31.179	48.038	0.00	0.00
ATOM	5070	H	TYR	X	337	53.410	30.614	47.694	0.00	0.00
ATOM	5071	CA	TYR	X	337	54.089	31.853	49.297	0.00	0.00
ATOM	5072	HA	TYR	X	337	55.034	32.358	49.500	0.00	0.00
ATOM	5073	CB	TYR	X	337	52.884	32.792	49.252	0.00	0.00
ATOM	5074	HB2	TYR	X	337	52.333	32.680	48.318	0.00	0.00
ATOM	5075	HB3	TYR	X	337	52.226	32.606	50.100	0.00	0.00
ATOM	5076	CG	TYR	X	337	53.262	34.259	49.230	0.00	0.00
ATOM	5077	CD1	TYR	X	337	53.384	34.958	50.437	0.00	0.00
ATOM	5078	HD1	TYR	X	337	53.202	34.481	51.388	0.00	0.00
ATOM	5079	CE1	TYR	X	337	53.748	36.322	50.439	0.00	0.00

ATOM	5080	HE1	TYR	X	337	53.715	36.848	51.381	0.00	0.00
ATOM	5081	CZ	TYR	X	337	53.916	37.033	49.223	0.00	0.00
ATOM	5082	OH	TYR	X	337	54.407	38.296	49.148	0.00	0.00
ATOM	5083	HH	TYR	X	337	54.548	38.733	49.991	0.00	0.00
ATOM	5084	CE2	TYR	X	337	53.687	36.324	48.002	0.00	0.00
ATOM	5085	HE2	TYR	X	337	53.716	36.892	47.083	0.00	0.00
ATOM	5086	CD2	TYR	X	337	53.433	34.898	47.987	0.00	0.00
ATOM	5087	HD2	TYR	X	337	53.418	34.427	47.015	0.00	0.00
ATOM	5088	C	TYR	X	337	54.016	30.923	50.558	0.00	0.00
ATOM	5089	O	TYR	X	337	54.212	31.489	51.646	0.00	0.00
ATOM	5090	N	GLY	X	338	53.721	29.657	50.444	0.00	0.00
ATOM	5091	H	GLY	X	338	53.420	29.296	49.550	0.00	0.00
ATOM	5092	CA	GLY	X	338	53.678	28.724	51.622	0.00	0.00
ATOM	5093	HA2	GLY	X	338	54.615	28.733	52.204	0.00	0.00
ATOM	5094	HA3	GLY	X	338	52.932	29.100	52.397	0.00	0.00
ATOM	5095	C	GLY	X	338	53.433	27.222	51.340	0.00	0.00
ATOM	5096	O	GLY	X	338	52.525	26.683	51.942	0.00	0.00
ATOM	5097	N	ALA	X	339	54.248	26.630	50.464	0.00	0.00
ATOM	5098	H	ALA	X	339	54.945	27.180	49.982	0.00	0.00
ATOM	5099	CA	ALA	X	339	54.005	25.249	50.002	0.00	0.00
ATOM	5100	HA	ALA	X	339	53.434	24.737	50.777	0.00	0.00
ATOM	5101	CB	ALA	X	339	53.160	25.356	48.757	0.00	0.00
ATOM	5102	HB1	ALA	X	339	52.165	25.749	48.967	0.00	0.00
ATOM	5103	HB2	ALA	X	339	53.681	26.075	48.126	0.00	0.00
ATOM	5104	HB3	ALA	X	339	53.102	24.399	48.237	0.00	0.00
ATOM	5105	C	ALA	X	339	55.282	24.445	49.628	0.00	0.00
ATOM	5106	O	ALA	X	339	56.229	25.121	49.122	0.00	0.00
ATOM	5107	N	PRO	X	340	55.370	23.116	49.916	0.00	0.00
ATOM	5108	CD	PRO	X	340	54.298	22.212	50.143	0.00	0.00
ATOM	5109	HD2	PRO	X	340	53.537	22.333	49.372	0.00	0.00
ATOM	5110	HD3	PRO	X	340	53.894	22.528	51.105	0.00	0.00
ATOM	5111	CG	PRO	X	340	54.898	20.768	50.193	0.00	0.00
ATOM	5112	HG2	PRO	X	340	54.898	20.375	49.177	0.00	0.00
ATOM	5113	HG3	PRO	X	340	54.319	20.149	50.878	0.00	0.00
ATOM	5114	CB	PRO	X	340	56.323	21.060	50.655	0.00	0.00
ATOM	5115	HB2	PRO	X	340	56.921	20.214	50.315	0.00	0.00
ATOM	5116	HB3	PRO	X	340	56.293	21.049	51.744	0.00	0.00
ATOM	5117	CA	PRO	X	340	56.644	22.357	50.030	0.00	0.00
ATOM	5118	HA	PRO	X	340	57.404	22.882	50.609	0.00	0.00
ATOM	5119	C	PRO	X	340	57.425	22.211	48.735	0.00	0.00
ATOM	5120	O	PRO	X	340	57.123	21.462	47.838	0.00	0.00
ATOM	5121	N	GLY	X	341	58.599	22.840	48.661	0.00	0.00
ATOM	5122	H	GLY	X	341	58.741	23.482	49.428	0.00	0.00
ATOM	5123	CA	GLY	X	341	59.408	22.793	47.469	0.00	0.00
ATOM	5124	HA2	GLY	X	341	60.437	22.786	47.807	0.00	0.00
ATOM	5125	HA3	GLY	X	341	59.181	21.987	46.757	0.00	0.00
ATOM	5126	C	GLY	X	341	59.321	24.103	46.632	0.00	0.00
ATOM	5127	O	GLY	X	341	60.235	24.438	45.940	0.00	0.00
ATOM	5128	N	PHE	X	342	58.239	24.889	46.831	0.00	0.00
ATOM	5129	H	PHE	X	342	57.490	24.428	47.327	0.00	0.00
ATOM	5130	CA	PHE	X	342	58.018	26.042	45.964	0.00	0.00
ATOM	5131	HA	PHE	X	342	58.533	25.952	45.007	0.00	0.00
ATOM	5132	CB	PHE	X	342	56.502	26.171	45.807	0.00	0.00
ATOM	5133	HB2	PHE	X	342	56.006	26.302	46.768	0.00	0.00
ATOM	5134	HB3	PHE	X	342	56.332	27.168	45.401	0.00	0.00
ATOM	5135	CG	PHE	X	342	55.780	25.115	44.995	0.00	0.00
ATOM	5136	CD1	PHE	X	342	55.547	25.298	43.649	0.00	0.00
ATOM	5137	HD1	PHE	X	342	55.984	26.167	43.179	0.00	0.00
ATOM	5138	CE1	PHE	X	342	54.812	24.381	42.831	0.00	0.00
ATOM	5139	HE1	PHE	X	342	54.628	24.698	41.815	0.00	0.00
ATOM	5140	CZ	PHE	X	342	54.324	23.205	43.435	0.00	0.00
ATOM	5141	HZ	PHE	X	342	53.779	22.473	42.858	0.00	0.00
ATOM	5142	CE2	PHE	X	342	54.584	23.022	44.810	0.00	0.00
ATOM	5143	HE2	PHE	X	342	54.125	22.175	45.299	0.00	0.00
ATOM	5144	CD2	PHE	X	342	55.174	23.972	45.606	0.00	0.00
ATOM	5145	HD2	PHE	X	342	55.210	23.823	46.675	0.00	0.00
ATOM	5146	C	PHE	X	342	58.502	27.382	46.510	0.00	0.00
ATOM	5147	O	PHE	X	342	58.402	27.682	47.688	0.00	0.00
ATOM	5148	N	SER	X	343	59.096	28.271	45.655	0.00	0.00
ATOM	5149	H	SER	X	343	58.968	28.148	44.660	0.00	0.00

ATOM	5150	CA	SER	X	343	59.798	29.521	46.058	0.00	0.00
ATOM	5151	HA	SER	X	343	59.222	30.191	46.696	0.00	0.00
ATOM	5152	CB	SER	X	343	61.113	29.131	46.799	0.00	0.00
ATOM	5153	HB2	SER	X	343	60.837	28.598	47.709	0.00	0.00
ATOM	5154	HB3	SER	X	343	61.675	28.522	46.090	0.00	0.00
ATOM	5155	OG	SER	X	343	62.023	30.207	47.087	0.00	0.00
ATOM	5156	HG	SER	X	343	62.553	30.027	47.867	0.00	0.00
ATOM	5157	C	SER	X	343	60.073	30.205	44.741	0.00	0.00
ATOM	5158	O	SER	X	343	60.181	29.659	43.646	0.00	0.00
ATOM	5159	N	LYS	X	344	60.313	31.517	44.812	0.00	0.00
ATOM	5160	H	LYS	X	344	60.560	31.762	45.760	0.00	0.00
ATOM	5161	CA	LYS	X	344	60.651	32.387	43.737	0.00	0.00
ATOM	5162	HA	LYS	X	344	59.865	32.490	42.988	0.00	0.00
ATOM	5163	CB	LYS	X	344	60.654	33.797	44.367	0.00	0.00
ATOM	5164	HB2	LYS	X	344	59.644	33.990	44.731	0.00	0.00
ATOM	5165	HB3	LYS	X	344	61.256	33.818	45.276	0.00	0.00
ATOM	5166	CG	LYS	X	344	61.035	34.983	43.568	0.00	0.00
ATOM	5167	HG2	LYS	X	344	62.103	34.991	43.348	0.00	0.00
ATOM	5168	HG3	LYS	X	344	60.346	35.120	42.734	0.00	0.00
ATOM	5169	CD	LYS	X	344	60.714	36.297	44.419	0.00	0.00
ATOM	5170	HD2	LYS	X	344	59.664	36.292	44.713	0.00	0.00
ATOM	5171	HD3	LYS	X	344	61.228	36.246	45.379	0.00	0.00
ATOM	5172	CE	LYS	X	344	60.989	37.629	43.690	0.00	0.00
ATOM	5173	HE2	LYS	X	344	60.442	37.715	42.751	0.00	0.00
ATOM	5174	HE3	LYS	X	344	60.565	38.408	44.324	0.00	0.00
ATOM	5175	NZ	LYS	X	344	62.476	37.864	43.519	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	62.771	38.796	43.264	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	63.001	37.682	44.362	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	62.863	37.228	42.836	0.00	0.00
ATOM	5179	C	LYS	X	344	61.949	32.036	43.042	0.00	0.00
ATOM	5180	O	LYS	X	344	62.193	32.446	41.858	0.00	0.00
ATOM	5181	N	ASP	X	345	62.768	31.189	43.648	0.00	0.00
ATOM	5182	H	ASP	X	345	62.554	30.764	44.539	0.00	0.00
ATOM	5183	CA	ASP	X	345	64.026	30.698	43.017	0.00	0.00
ATOM	5184	HA	ASP	X	345	63.975	30.864	41.941	0.00	0.00
ATOM	5185	CB	ASP	X	345	65.179	31.611	43.358	0.00	0.00
ATOM	5186	HB2	ASP	X	345	65.014	32.613	42.961	0.00	0.00
ATOM	5187	HB3	ASP	X	345	65.355	31.472	44.425	0.00	0.00
ATOM	5188	CG	ASP	X	345	66.485	31.193	42.640	0.00	0.00
ATOM	5189	OD1	ASP	X	345	66.582	31.145	41.417	0.00	0.00
ATOM	5190	OD2	ASP	X	345	67.437	30.933	43.425	0.00	0.00
ATOM	5191	C	ASP	X	345	64.165	29.217	43.220	0.00	0.00
ATOM	5192	O	ASP	X	345	65.282	28.752	43.508	0.00	0.00
ATOM	5193	N	ASN	X	346	63.076	28.518	43.226	0.00	0.00
ATOM	5194	H	ASN	X	346	62.250	29.084	43.094	0.00	0.00
ATOM	5195	CA	ASN	X	346	63.053	27.074	43.006	0.00	0.00
ATOM	5196	HA	ASN	X	346	64.097	26.798	42.856	0.00	0.00
ATOM	5197	CB	ASN	X	346	62.691	26.567	44.400	0.00	0.00
ATOM	5198	HB2	ASN	X	346	63.155	27.162	45.186	0.00	0.00
ATOM	5199	HB3	ASN	X	346	61.625	26.599	44.628	0.00	0.00
ATOM	5200	CG	ASN	X	346	63.142	25.124	44.548	0.00	0.00
ATOM	5201	OD1	ASN	X	346	62.899	24.267	43.698	0.00	0.00
ATOM	5202	ND2	ASN	X	346	63.809	24.815	45.661	0.00	0.00
ATOM	5203	HD21	ASN	X	346	64.115	23.860	45.777	0.00	0.00
ATOM	5204	HD22	ASN	X	346	64.054	25.591	46.260	0.00	0.00
ATOM	5205	C	ASN	X	346	62.165	26.592	41.838	0.00	0.00
ATOM	5206	O	ASN	X	346	61.036	26.972	41.684	0.00	0.00
ATOM	5207	N	GLU	X	347	62.764	25.734	41.015	0.00	0.00
ATOM	5208	H	GLU	X	347	63.705	25.387	41.137	0.00	0.00
ATOM	5209	CA	GLU	X	347	62.029	25.183	39.852	0.00	0.00
ATOM	5210	HA	GLU	X	347	61.548	26.055	39.408	0.00	0.00
ATOM	5211	CB	GLU	X	347	63.028	24.690	38.740	0.00	0.00
ATOM	5212	HB2	GLU	X	347	62.444	24.700	37.819	0.00	0.00
ATOM	5213	HB3	GLU	X	347	63.708	25.515	38.527	0.00	0.00
ATOM	5214	CG	GLU	X	347	63.730	23.341	38.982	0.00	0.00
ATOM	5215	HG2	GLU	X	347	62.993	22.658	39.403	0.00	0.00
ATOM	5216	HG3	GLU	X	347	63.830	22.896	37.992	0.00	0.00
ATOM	5217	CD	GLU	X	347	65.031	23.317	39.745	0.00	0.00
ATOM	5218	OE1	GLU	X	347	65.879	22.413	39.516	0.00	0.00
ATOM	5219	OE2	GLU	X	347	65.189	24.296	40.470	0.00	0.00

ATOM	5220	C	GLU	X	347	60.848	24.254	40.260	0.00	0.00
ATOM	5221	O	GLU	X	347	60.056	23.891	39.444	0.00	0.00
ATOM	5222	N	SER	X	348	60.677	23.820	41.564	0.00	0.00
ATOM	5223	H	SER	X	348	61.444	24.134	42.141	0.00	0.00
ATOM	5224	CA	SER	X	348	59.603	23.038	42.154	0.00	0.00
ATOM	5225	HA	SER	X	348	59.769	22.841	43.213	0.00	0.00
ATOM	5226	CB	SER	X	348	58.324	23.892	42.140	0.00	0.00
ATOM	5227	HB2	SER	X	348	57.998	24.094	41.119	0.00	0.00
ATOM	5228	HB3	SER	X	348	57.493	23.455	42.694	0.00	0.00
ATOM	5229	OG	SER	X	348	58.598	25.198	42.743	0.00	0.00
ATOM	5230	HG	SER	X	348	59.406	25.441	42.285	0.00	0.00
ATOM	5231	C	SER	X	348	59.196	21.742	41.436	0.00	0.00
ATOM	5232	O	SER	X	348	58.050	21.337	41.422	0.00	0.00
ATOM	5233	N	LEU	X	349	60.183	20.860	41.075	0.00	0.00
ATOM	5234	H	LEU	X	349	61.085	21.257	41.294	0.00	0.00
ATOM	5235	CA	LEU	X	349	60.038	19.476	40.576	0.00	0.00
ATOM	5236	HA	LEU	X	349	59.122	19.401	39.991	0.00	0.00
ATOM	5237	CB	LEU	X	349	61.323	19.080	39.743	0.00	0.00
ATOM	5238	HB2	LEU	X	349	62.250	19.113	40.315	0.00	0.00
ATOM	5239	HB3	LEU	X	349	61.247	18.019	39.503	0.00	0.00
ATOM	5240	CG	LEU	X	349	61.443	19.937	38.346	0.00	0.00
ATOM	5241	HG	LEU	X	349	61.516	20.996	38.594	0.00	0.00
ATOM	5242	CD1	LEU	X	349	62.824	19.630	37.764	0.00	0.00
ATOM	5243	HD11	LEU	X	349	62.987	20.152	36.821	0.00	0.00
ATOM	5244	HD12	LEU	X	349	63.579	19.912	38.498	0.00	0.00
ATOM	5245	HD13	LEU	X	349	62.881	18.549	37.640	0.00	0.00
ATOM	5246	CD2	LEU	X	349	60.442	19.869	37.170	0.00	0.00
ATOM	5247	HD21	LEU	X	349	59.391	19.895	37.456	0.00	0.00
ATOM	5248	HD22	LEU	X	349	60.611	20.638	36.417	0.00	0.00
ATOM	5249	HD23	LEU	X	349	60.603	18.952	36.602	0.00	0.00
ATOM	5250	C	LEU	X	349	59.685	18.428	41.597	0.00	0.00
ATOM	5251	O	LEU	X	349	60.509	17.668	42.015	0.00	0.00
ATOM	5252	N	ILE	X	350	58.416	18.503	42.085	0.00	0.00
ATOM	5253	H	ILE	X	350	57.739	19.197	41.804	0.00	0.00
ATOM	5254	CA	ILE	X	350	57.988	17.792	43.257	0.00	0.00
ATOM	5255	HA	ILE	X	350	58.832	17.659	43.934	0.00	0.00
ATOM	5256	CB	ILE	X	350	56.845	18.535	43.987	0.00	0.00
ATOM	5257	HB	ILE	X	350	56.313	17.832	44.628	0.00	0.00
ATOM	5258	CG2	ILE	X	350	57.561	19.631	44.896	0.00	0.00
ATOM	5259	HG21	ILE	X	350	58.407	19.191	45.425	0.00	0.00
ATOM	5260	HG22	ILE	X	350	57.901	20.395	44.198	0.00	0.00
ATOM	5261	HG23	ILE	X	350	56.813	20.021	45.586	0.00	0.00
ATOM	5262	CG1	ILE	X	350	55.854	19.164	43.004	0.00	0.00
ATOM	5263	HG12	ILE	X	350	56.162	20.073	42.487	0.00	0.00
ATOM	5264	HG13	ILE	X	350	55.656	18.432	42.220	0.00	0.00
ATOM	5265	CD1	ILE	X	350	54.507	19.293	43.706	0.00	0.00
ATOM	5266	HD11	ILE	X	350	54.607	19.950	44.570	0.00	0.00
ATOM	5267	HD12	ILE	X	350	53.777	19.699	43.006	0.00	0.00
ATOM	5268	HD13	ILE	X	350	54.124	18.333	44.052	0.00	0.00
ATOM	5269	C	ILE	X	350	57.607	16.331	42.898	0.00	0.00
ATOM	5270	O	ILE	X	350	57.044	16.052	41.831	0.00	0.00
ATOM	5271	N	SER	X	351	57.749	15.500	43.939	0.00	0.00
ATOM	5272	H	SER	X	351	58.339	15.777	44.710	0.00	0.00
ATOM	5273	CA	SER	X	351	57.252	14.053	44.058	0.00	0.00
ATOM	5274	HA	SER	X	351	57.295	13.646	43.048	0.00	0.00
ATOM	5275	CB	SER	X	351	58.053	13.247	45.040	0.00	0.00
ATOM	5276	HB2	SER	X	351	57.759	12.198	45.010	0.00	0.00
ATOM	5277	HB3	SER	X	351	59.092	13.326	44.720	0.00	0.00
ATOM	5278	OG	SER	X	351	58.064	13.830	46.331	0.00	0.00
ATOM	5279	HG	SER	X	351	58.261	14.764	46.229	0.00	0.00
ATOM	5280	C	SER	X	351	55.775	13.987	44.458	0.00	0.00
ATOM	5281	O	SER	X	351	55.328	14.879	45.195	0.00	0.00
ATOM	5282	N	ARG	X	352	55.050	12.896	44.168	0.00	0.00
ATOM	5283	H	ARG	X	352	55.354	12.414	43.335	0.00	0.00
ATOM	5284	CA	ARG	X	352	53.621	12.701	44.565	0.00	0.00
ATOM	5285	HA	ARG	X	352	53.004	13.465	44.091	0.00	0.00
ATOM	5286	CB	ARG	X	352	53.215	11.330	43.973	0.00	0.00
ATOM	5287	HB2	ARG	X	352	53.729	11.180	43.023	0.00	0.00
ATOM	5288	HB3	ARG	X	352	53.647	10.543	44.590	0.00	0.00
ATOM	5289	CG	ARG	X	352	51.720	11.085	43.939	0.00	0.00

ATOM	5290	HG2	ARG	X	352	51.325	11.077	44.955	0.00	0.00
ATOM	5291	HG3	ARG	X	352	51.279	11.945	43.435	0.00	0.00
ATOM	5292	CD	ARG	X	352	51.347	9.842	43.172	0.00	0.00
ATOM	5293	HD2	ARG	X	352	51.730	9.829	42.152	0.00	0.00
ATOM	5294	HD3	ARG	X	352	51.803	8.978	43.657	0.00	0.00
ATOM	5295	NE	ARG	X	352	49.934	9.610	42.957	0.00	0.00
ATOM	5296	HE	ARG	X	352	49.408	9.068	43.627	0.00	0.00
ATOM	5297	CZ	ARG	X	352	49.245	10.186	41.957	0.00	0.00
ATOM	5298	NH1	ARG	X	352	49.801	10.981	41.030	0.00	0.00
ATOM	5299	HH11	ARG	X	352	50.799	11.055	40.896	0.00	0.00
ATOM	5300	HH12	ARG	X	352	49.107	11.581	40.608	0.00	0.00
ATOM	5301	NH2	ARG	X	352	47.953	10.013	41.990	0.00	0.00
ATOM	5302	HH21	ARG	X	352	47.559	9.321	42.613	0.00	0.00
ATOM	5303	HH22	ARG	X	352	47.309	10.605	41.485	0.00	0.00
ATOM	5304	C	ARG	X	352	53.223	12.639	46.058	0.00	0.00
ATOM	5305	O	ARG	X	352	52.148	13.112	46.338	0.00	0.00
ATOM	5306	N	ALA	X	353	54.176	12.332	46.961	0.00	0.00
ATOM	5307	H	ALA	X	353	55.067	11.971	46.653	0.00	0.00
ATOM	5308	CA	ALA	X	353	54.140	12.582	48.459	0.00	0.00
ATOM	5309	HA	ALA	X	353	53.260	12.141	48.928	0.00	0.00
ATOM	5310	CB	ALA	X	353	55.385	11.968	49.010	0.00	0.00
ATOM	5311	HB1	ALA	X	353	55.505	10.899	48.837	0.00	0.00
ATOM	5312	HB2	ALA	X	353	56.205	12.546	48.583	0.00	0.00
ATOM	5313	HB3	ALA	X	353	55.278	12.032	50.093	0.00	0.00
ATOM	5314	C	ALA	X	353	54.112	14.142	48.684	0.00	0.00
ATOM	5315	O	ALA	X	353	53.225	14.587	49.376	0.00	0.00
ATOM	5316	N	GLU	X	354	54.924	14.941	48.014	0.00	0.00
ATOM	5317	H	GLU	X	354	55.596	14.572	47.357	0.00	0.00
ATOM	5318	CA	GLU	X	354	54.881	16.410	48.127	0.00	0.00
ATOM	5319	HA	GLU	X	354	54.712	16.573	49.191	0.00	0.00
ATOM	5320	CB	GLU	X	354	56.244	17.076	47.738	0.00	0.00
ATOM	5321	HB2	GLU	X	354	56.319	16.822	46.681	0.00	0.00
ATOM	5322	HB3	GLU	X	354	56.255	18.143	47.962	0.00	0.00
ATOM	5323	CG	GLU	X	354	57.513	16.557	48.368	0.00	0.00
ATOM	5324	HG2	GLU	X	354	57.592	17.080	49.321	0.00	0.00
ATOM	5325	HG3	GLU	X	354	57.623	15.481	48.504	0.00	0.00
ATOM	5326	CD	GLU	X	354	58.735	16.868	47.584	0.00	0.00
ATOM	5327	OE1	GLU	X	354	59.702	17.455	48.122	0.00	0.00
ATOM	5328	OE2	GLU	X	354	58.748	16.526	46.371	0.00	0.00
ATOM	5329	C	GLU	X	354	53.701	17.118	47.354	0.00	0.00
ATOM	5330	O	GLU	X	354	53.197	18.126	47.864	0.00	0.00
ATOM	5331	N	PHE	X	355	53.153	16.524	46.292	0.00	0.00
ATOM	5332	H	PHE	X	355	53.557	15.670	45.937	0.00	0.00
ATOM	5333	CA	PHE	X	355	51.851	16.723	45.689	0.00	0.00
ATOM	5334	HA	PHE	X	355	51.802	17.761	45.361	0.00	0.00
ATOM	5335	CB	PHE	X	355	51.577	15.908	44.435	0.00	0.00
ATOM	5336	HB2	PHE	X	355	52.397	15.909	43.717	0.00	0.00
ATOM	5337	HB3	PHE	X	355	51.417	14.887	44.782	0.00	0.00
ATOM	5338	CG	PHE	X	355	50.335	16.256	43.667	0.00	0.00
ATOM	5339	CD1	PHE	X	355	50.353	17.360	42.820	0.00	0.00
ATOM	5340	HD1	PHE	X	355	51.219	17.979	42.641	0.00	0.00
ATOM	5341	CE1	PHE	X	355	49.225	17.689	42.042	0.00	0.00
ATOM	5342	HE1	PHE	X	355	49.298	18.426	41.256	0.00	0.00
ATOM	5343	CZ	PHE	X	355	47.991	17.054	42.182	0.00	0.00
ATOM	5344	HZ	PHE	X	355	47.145	17.352	41.579	0.00	0.00
ATOM	5345	CE2	PHE	X	355	47.945	16.021	43.123	0.00	0.00
ATOM	5346	HE2	PHE	X	355	47.042	15.438	43.221	0.00	0.00
ATOM	5347	CD2	PHE	X	355	49.081	15.690	43.917	0.00	0.00
ATOM	5348	HD2	PHE	X	355	48.878	14.931	44.657	0.00	0.00
ATOM	5349	C	PHE	X	355	50.682	16.608	46.759	0.00	0.00
ATOM	5350	O	PHE	X	355	49.776	17.453	46.803	0.00	0.00
ATOM	5351	N	LEU	X	356	50.698	15.526	47.562	0.00	0.00
ATOM	5352	H	LEU	X	356	51.434	14.836	47.511	0.00	0.00
ATOM	5353	CA	LEU	X	356	49.691	15.298	48.649	0.00	0.00
ATOM	5354	HA	LEU	X	356	48.675	15.511	48.316	0.00	0.00
ATOM	5355	CB	LEU	X	356	49.745	13.900	49.154	0.00	0.00
ATOM	5356	HB2	LEU	X	356	49.930	13.203	48.336	0.00	0.00
ATOM	5357	HB3	LEU	X	356	50.635	13.778	49.771	0.00	0.00
ATOM	5358	CG	LEU	X	356	48.541	13.291	50.015	0.00	0.00
ATOM	5359	HG	LEU	X	356	48.611	12.210	49.899	0.00	0.00

ATOM	5360	CD1	LEU	X	356	48.603	13.638	51.529	0.00	0.00
ATOM	5361	HD11	LEU	X	356	48.542	14.726	51.523	0.00	0.00
ATOM	5362	HD12	LEU	X	356	47.717	13.365	52.102	0.00	0.00
ATOM	5363	HD13	LEU	X	356	49.532	13.255	51.951	0.00	0.00
ATOM	5364	CD2	LEU	X	356	47.217	13.677	49.388	0.00	0.00
ATOM	5365	HD21	LEU	X	356	47.049	14.754	49.389	0.00	0.00
ATOM	5366	HD22	LEU	X	356	47.118	13.265	48.384	0.00	0.00
ATOM	5367	HD23	LEU	X	356	46.357	13.247	49.901	0.00	0.00
ATOM	5368	C	LEU	X	356	49.910	16.278	49.791	0.00	0.00
ATOM	5369	O	LEU	X	356	48.922	16.914	50.241	0.00	0.00
ATOM	5370	N	ALA	X	357	51.152	16.554	50.265	0.00	0.00
ATOM	5371	H	ALA	X	357	51.893	16.140	49.716	0.00	0.00
ATOM	5372	CA	ALA	X	357	51.444	17.662	51.232	0.00	0.00
ATOM	5373	HA	ALA	X	357	50.971	17.318	52.152	0.00	0.00
ATOM	5374	CB	ALA	X	357	52.936	17.756	51.325	0.00	0.00
ATOM	5375	HB1	ALA	X	357	53.239	18.631	51.901	0.00	0.00
ATOM	5376	HB2	ALA	X	357	53.239	16.847	51.844	0.00	0.00
ATOM	5377	HB3	ALA	X	357	53.360	17.769	50.321	0.00	0.00
ATOM	5378	C	ALA	X	357	50.874	19.001	50.712	0.00	0.00
ATOM	5379	O	ALA	X	357	50.320	19.840	51.401	0.00	0.00
ATOM	5380	N	GLY	X	358	51.121	19.195	49.416	0.00	0.00
ATOM	5381	H	GLY	X	358	51.831	18.578	49.049	0.00	0.00
ATOM	5382	CA	GLY	X	358	50.703	20.208	48.552	0.00	0.00
ATOM	5383	HA2	GLY	X	358	51.293	21.105	48.736	0.00	0.00
ATOM	5384	HA3	GLY	X	358	50.880	19.883	47.542	0.00	0.00
ATOM	5385	C	GLY	X	358	49.165	20.597	48.545	0.00	0.00
ATOM	5386	O	GLY	X	358	48.824	21.727	48.763	0.00	0.00
ATOM	5387	N	VAL	X	359	48.304	19.561	48.293	0.00	0.00
ATOM	5388	H	VAL	X	359	48.647	18.637	48.074	0.00	0.00
ATOM	5389	CA	VAL	X	359	46.849	19.684	48.556	0.00	0.00
ATOM	5390	HA	VAL	X	359	46.505	20.457	47.869	0.00	0.00
ATOM	5391	CB	VAL	X	359	46.035	18.387	48.126	0.00	0.00
ATOM	5392	HB	VAL	X	359	46.506	17.649	48.775	0.00	0.00
ATOM	5393	CG1	VAL	X	359	44.617	18.475	48.539	0.00	0.00
ATOM	5394	HG11	VAL	X	359	44.061	19.229	47.982	0.00	0.00
ATOM	5395	HG12	VAL	X	359	44.045	17.568	48.345	0.00	0.00
ATOM	5396	HG13	VAL	X	359	44.605	18.614	49.620	0.00	0.00
ATOM	5397	CG2	VAL	X	359	46.222	17.852	46.652	0.00	0.00
ATOM	5398	HG21	VAL	X	359	45.436	17.136	46.412	0.00	0.00
ATOM	5399	HG22	VAL	X	359	45.955	18.717	46.045	0.00	0.00
ATOM	5400	HG23	VAL	X	359	47.250	17.505	46.547	0.00	0.00
ATOM	5401	C	VAL	X	359	46.593	19.979	50.063	0.00	0.00
ATOM	5402	O	VAL	X	359	45.642	20.747	50.212	0.00	0.00
ATOM	5403	N	ARG	X	360	47.340	19.463	51.066	0.00	0.00
ATOM	5404	H	ARG	X	360	47.976	18.764	50.708	0.00	0.00
ATOM	5405	CA	ARG	X	360	47.086	19.742	52.432	0.00	0.00
ATOM	5406	HA	ARG	X	360	46.022	19.623	52.637	0.00	0.00
ATOM	5407	CB	ARG	X	360	47.763	18.698	53.362	0.00	0.00
ATOM	5408	HB2	ARG	X	360	48.786	18.579	53.005	0.00	0.00
ATOM	5409	HB3	ARG	X	360	47.889	19.016	54.397	0.00	0.00
ATOM	5410	CG	ARG	X	360	47.049	17.361	53.308	0.00	0.00
ATOM	5411	HG2	ARG	X	360	46.737	17.076	52.303	0.00	0.00
ATOM	5412	HG3	ARG	X	360	47.688	16.541	53.636	0.00	0.00
ATOM	5413	CD	ARG	X	360	45.993	17.337	54.385	0.00	0.00
ATOM	5414	HD2	ARG	X	360	45.266	18.148	54.336	0.00	0.00
ATOM	5415	HD3	ARG	X	360	45.332	16.480	54.251	0.00	0.00
ATOM	5416	NE	ARG	X	360	46.634	17.287	55.725	0.00	0.00
ATOM	5417	HE	ARG	X	360	47.411	16.649	55.821	0.00	0.00
ATOM	5418	CZ	ARG	X	360	46.356	17.994	56.753	0.00	0.00
ATOM	5419	NH1	ARG	X	360	45.652	19.081	56.643	0.00	0.00
ATOM	5420	HH11	ARG	X	360	45.350	19.494	55.773	0.00	0.00
ATOM	5421	HH12	ARG	X	360	45.366	19.641	57.434	0.00	0.00
ATOM	5422	NH2	ARG	X	360	46.825	17.594	57.926	0.00	0.00
ATOM	5423	HH21	ARG	X	360	47.312	16.709	57.922	0.00	0.00
ATOM	5424	HH22	ARG	X	360	46.662	18.215	58.706	0.00	0.00
ATOM	5425	C	ARG	X	360	47.427	21.226	52.903	0.00	0.00
ATOM	5426	O	ARG	X	360	46.746	21.793	53.771	0.00	0.00
ATOM	5427	N	VAL	X	361	48.420	21.877	52.242	0.00	0.00
ATOM	5428	H	VAL	X	361	48.864	21.419	51.459	0.00	0.00
ATOM	5429	CA	VAL	X	361	48.803	23.352	52.402	0.00	0.00

ATOM	5430	HA	VAL	X	361	48.612	23.634	53.438	0.00	0.00
ATOM	5431	CB	VAL	X	361	50.298	23.593	52.213	0.00	0.00
ATOM	5432	HB	VAL	X	361	50.403	24.661	52.404	0.00	0.00
ATOM	5433	CG1	VAL	X	361	51.248	22.787	53.186	0.00	0.00
ATOM	5434	HG11	VAL	X	361	52.243	23.229	53.237	0.00	0.00
ATOM	5435	HG12	VAL	X	361	50.875	22.915	54.202	0.00	0.00
ATOM	5436	HG13	VAL	X	361	51.090	21.712	53.105	0.00	0.00
ATOM	5437	CG2	VAL	X	361	50.807	23.384	50.755	0.00	0.00
ATOM	5438	HG21	VAL	X	361	50.243	23.928	49.997	0.00	0.00
ATOM	5439	HG22	VAL	X	361	51.891	23.477	50.678	0.00	0.00
ATOM	5440	HG23	VAL	X	361	50.640	22.326	50.557	0.00	0.00
ATOM	5441	C	VAL	X	361	47.983	24.373	51.530	0.00	0.00
ATOM	5442	O	VAL	X	361	47.628	25.447	52.020	0.00	0.00
ATOM	5443	N	GLY	X	362	47.673	24.036	50.280	0.00	0.00
ATOM	5444	H	GLY	X	362	48.120	23.200	49.932	0.00	0.00
ATOM	5445	CA	GLY	X	362	47.006	24.931	49.349	0.00	0.00
ATOM	5446	HA2	GLY	X	362	47.333	26.033	49.513	0.00	0.00
ATOM	5447	HA3	GLY	X	362	47.386	24.551	48.441	0.00	0.00
ATOM	5448	C	GLY	X	362	45.411	24.830	49.388	0.00	0.00
ATOM	5449	O	GLY	X	362	44.739	25.748	48.953	0.00	0.00
ATOM	5450	N	VAL	X	363	44.840	23.770	49.943	0.00	0.00
ATOM	5451	H	VAL	X	363	45.417	23.101	50.432	0.00	0.00
ATOM	5452	CA	VAL	X	363	43.383	23.599	50.220	0.00	0.00
ATOM	5453	HA	VAL	X	363	42.918	24.462	49.744	0.00	0.00
ATOM	5454	CB	VAL	X	363	42.737	22.357	49.516	0.00	0.00
ATOM	5455	HB	VAL	X	363	43.110	21.413	49.913	0.00	0.00
ATOM	5456	CG1	VAL	X	363	41.269	22.128	49.800	0.00	0.00
ATOM	5457	HG11	VAL	X	363	41.164	22.173	50.884	0.00	0.00
ATOM	5458	HG12	VAL	X	363	40.748	23.020	49.452	0.00	0.00
ATOM	5459	HG13	VAL	X	363	40.886	21.209	49.358	0.00	0.00
ATOM	5460	CG2	VAL	X	363	42.953	22.394	47.980	0.00	0.00
ATOM	5461	HG21	VAL	X	363	44.039	22.328	47.910	0.00	0.00
ATOM	5462	HG22	VAL	X	363	42.531	21.447	47.645	0.00	0.00
ATOM	5463	HG23	VAL	X	363	42.535	23.311	47.564	0.00	0.00
ATOM	5464	C	VAL	X	363	43.261	23.642	51.755	0.00	0.00
ATOM	5465	O	VAL	X	363	43.672	22.671	52.445	0.00	0.00
ATOM	5466	N	PRO	X	364	42.591	24.685	52.288	0.00	0.00
ATOM	5467	CD	PRO	X	364	42.325	25.975	51.662	0.00	0.00
ATOM	5468	HD2	PRO	X	364	41.294	25.896	51.319	0.00	0.00
ATOM	5469	HD3	PRO	X	364	43.064	26.248	50.908	0.00	0.00
ATOM	5470	CG	PRO	X	364	42.384	27.081	52.774	0.00	0.00
ATOM	5471	HG2	PRO	X	364	41.787	27.961	52.539	0.00	0.00
ATOM	5472	HG3	PRO	X	364	43.441	27.338	52.837	0.00	0.00
ATOM	5473	CB	PRO	X	364	41.991	26.271	53.986	0.00	0.00
ATOM	5474	HB2	PRO	X	364	40.911	26.415	54.019	0.00	0.00
ATOM	5475	HB3	PRO	X	364	42.374	26.650	54.933	0.00	0.00
ATOM	5476	CA	PRO	X	364	42.349	24.837	53.776	0.00	0.00
ATOM	5477	HA	PRO	X	364	43.312	24.609	54.233	0.00	0.00
ATOM	5478	C	PRO	X	364	41.414	23.764	54.272	0.00	0.00
ATOM	5479	O	PRO	X	364	40.521	23.468	53.562	0.00	0.00
ATOM	5480	N	GLN	X	365	41.655	23.212	55.494	0.00	0.00
ATOM	5481	H	GLN	X	365	42.471	23.644	55.904	0.00	0.00
ATOM	5482	CA	GLN	X	365	40.860	22.318	56.292	0.00	0.00
ATOM	5483	HA	GLN	X	365	41.291	22.241	57.290	0.00	0.00
ATOM	5484	CB	GLN	X	365	39.401	22.792	56.362	0.00	0.00
ATOM	5485	HB2	GLN	X	365	39.001	22.569	55.373	0.00	0.00
ATOM	5486	HB3	GLN	X	365	38.827	22.111	56.990	0.00	0.00
ATOM	5487	CG	GLN	X	365	39.166	24.212	56.997	0.00	0.00
ATOM	5488	HG2	GLN	X	365	39.450	24.181	58.049	0.00	0.00
ATOM	5489	HG3	GLN	X	365	39.853	24.840	56.431	0.00	0.00
ATOM	5490	CD	GLN	X	365	37.740	24.720	56.743	0.00	0.00
ATOM	5491	OE1	GLN	X	365	37.076	24.537	55.748	0.00	0.00
ATOM	5492	NE2	GLN	X	365	37.142	25.326	57.701	0.00	0.00
ATOM	5493	HE21	GLN	X	365	36.191	25.646	57.586	0.00	0.00
ATOM	5494	HE22	GLN	X	365	37.647	25.731	58.476	0.00	0.00
ATOM	5495	C	GLN	X	365	40.858	20.857	55.705	0.00	0.00
ATOM	5496	O	GLN	X	365	40.379	19.927	56.400	0.00	0.00
ATOM	5497	N	VAL	X	366	41.228	20.540	54.451	0.00	0.00
ATOM	5498	H	VAL	X	366	41.791	21.225	53.966	0.00	0.00
ATOM	5499	CA	VAL	X	366	41.153	19.206	53.792	0.00	0.00

ATOM	5500	HA	VAL	X	366	40.094	18.960	53.708	0.00	0.00
ATOM	5501	CB	VAL	X	366	41.594	19.328	52.347	0.00	0.00
ATOM	5502	HB	VAL	X	366	41.289	20.292	51.938	0.00	0.00
ATOM	5503	CG1	VAL	X	366	43.115	19.360	52.231	0.00	0.00
ATOM	5504	HG11	VAL	X	366	43.358	19.404	51.170	0.00	0.00
ATOM	5505	HG12	VAL	X	366	43.621	20.054	52.902	0.00	0.00
ATOM	5506	HG13	VAL	X	366	43.457	18.341	52.412	0.00	0.00
ATOM	5507	CG2	VAL	X	366	41.017	18.161	51.495	0.00	0.00
ATOM	5508	HG21	VAL	X	366	41.116	17.175	51.948	0.00	0.00
ATOM	5509	HG22	VAL	X	366	39.954	18.375	51.382	0.00	0.00
ATOM	5510	HG23	VAL	X	366	41.611	18.217	50.582	0.00	0.00
ATOM	5511	C	VAL	X	366	41.813	18.131	54.597	0.00	0.00
ATOM	5512	O	VAL	X	366	42.887	18.338	55.155	0.00	0.00
ATOM	5513	N	SER	X	367	41.138	16.963	54.746	0.00	0.00
ATOM	5514	H	SER	X	367	40.160	16.910	54.499	0.00	0.00
ATOM	5515	CA	SER	X	367	41.561	15.864	55.586	0.00	0.00
ATOM	5516	HA	SER	X	367	42.307	16.311	56.242	0.00	0.00
ATOM	5517	CB	SER	X	367	40.317	15.449	56.392	0.00	0.00
ATOM	5518	HB2	SER	X	367	39.448	15.157	55.802	0.00	0.00
ATOM	5519	HB3	SER	X	367	40.515	14.664	57.122	0.00	0.00
ATOM	5520	OG	SER	X	367	40.005	16.597	57.097	0.00	0.00
ATOM	5521	HG	SER	X	367	39.243	16.340	57.622	0.00	0.00
ATOM	5522	C	SER	X	367	42.197	14.762	54.740	0.00	0.00
ATOM	5523	O	SER	X	367	42.313	14.914	53.534	0.00	0.00
ATOM	5524	N	ASP	X	368	42.741	13.708	55.322	0.00	0.00
ATOM	5525	H	ASP	X	368	42.776	13.799	56.328	0.00	0.00
ATOM	5526	CA	ASP	X	368	43.760	12.882	54.728	0.00	0.00
ATOM	5527	HA	ASP	X	368	44.558	13.509	54.329	0.00	0.00
ATOM	5528	CB	ASP	X	368	44.416	12.069	55.847	0.00	0.00
ATOM	5529	HB2	ASP	X	368	44.931	12.688	56.581	0.00	0.00
ATOM	5530	HB3	ASP	X	368	43.605	11.777	56.514	0.00	0.00
ATOM	5531	CG	ASP	X	368	45.172	10.834	55.330	0.00	0.00
ATOM	5532	OD1	ASP	X	368	44.592	9.781	55.211	0.00	0.00
ATOM	5533	OD2	ASP	X	368	46.428	10.909	55.297	0.00	0.00
ATOM	5534	C	ASP	X	368	43.147	12.069	53.552	0.00	0.00
ATOM	5535	O	ASP	X	368	43.632	12.028	52.412	0.00	0.00
ATOM	5536	N	LEU	X	369	42.033	11.431	53.803	0.00	0.00
ATOM	5537	H	LEU	X	369	41.790	11.573	54.773	0.00	0.00
ATOM	5538	CA	LEU	X	369	41.121	10.620	52.936	0.00	0.00
ATOM	5539	HA	LEU	X	369	41.679	9.857	52.394	0.00	0.00
ATOM	5540	CB	LEU	X	369	40.127	9.851	53.880	0.00	0.00
ATOM	5541	HB2	LEU	X	369	39.708	9.080	53.233	0.00	0.00
ATOM	5542	HB3	LEU	X	369	40.563	9.275	54.697	0.00	0.00
ATOM	5543	CG	LEU	X	369	38.975	10.656	54.478	0.00	0.00
ATOM	5544	HG	LEU	X	369	38.486	11.218	53.682	0.00	0.00
ATOM	5545	CD1	LEU	X	369	38.075	9.644	55.099	0.00	0.00
ATOM	5546	HD11	LEU	X	369	37.310	10.179	55.662	0.00	0.00
ATOM	5547	HD12	LEU	X	369	37.714	8.936	54.353	0.00	0.00
ATOM	5548	HD13	LEU	X	369	38.651	9.052	55.810	0.00	0.00
ATOM	5549	CD2	LEU	X	369	39.378	11.649	55.576	0.00	0.00
ATOM	5550	HD21	LEU	X	369	40.046	11.189	56.304	0.00	0.00
ATOM	5551	HD22	LEU	X	369	39.948	12.467	55.136	0.00	0.00
ATOM	5552	HD23	LEU	X	369	38.539	12.108	56.098	0.00	0.00
ATOM	5553	C	LEU	X	369	40.457	11.491	51.900	0.00	0.00
ATOM	5554	O	LEU	X	369	40.296	11.051	50.784	0.00	0.00
ATOM	5555	N	ALA	X	370	40.226	12.756	52.203	0.00	0.00
ATOM	5556	H	ALA	X	370	40.583	13.160	53.057	0.00	0.00
ATOM	5557	CA	ALA	X	370	39.705	13.680	51.204	0.00	0.00
ATOM	5558	HA	ALA	X	370	38.952	13.181	50.594	0.00	0.00
ATOM	5559	CB	ALA	X	370	39.005	14.841	51.852	0.00	0.00
ATOM	5560	HB1	ALA	X	370	38.154	14.505	52.444	0.00	0.00
ATOM	5561	HB2	ALA	X	370	39.639	15.236	52.645	0.00	0.00
ATOM	5562	HB3	ALA	X	370	38.795	15.598	51.095	0.00	0.00
ATOM	5563	C	ALA	X	370	40.793	14.064	50.316	0.00	0.00
ATOM	5564	O	ALA	X	370	40.569	14.093	49.080	0.00	0.00
ATOM	5565	N	ALA	X	371	42.001	14.412	50.751	0.00	0.00
ATOM	5566	H	ALA	X	371	42.203	14.235	51.724	0.00	0.00
ATOM	5567	CA	ALA	X	371	43.132	14.899	49.950	0.00	0.00
ATOM	5568	HA	ALA	X	371	42.662	15.627	49.289	0.00	0.00
ATOM	5569	CB	ALA	X	371	44.132	15.500	50.910	0.00	0.00

ATOM	5570	HB1	ALA	X	371	44.453	14.746	51.629	0.00	0.00
ATOM	5571	HB2	ALA	X	371	45.024	15.842	50.386	0.00	0.00
ATOM	5572	HB3	ALA	X	371	43.598	16.287	51.442	0.00	0.00
ATOM	5573	C	ALA	X	371	43.645	13.799	49.066	0.00	0.00
ATOM	5574	O	ALA	X	371	43.808	13.996	47.866	0.00	0.00
ATOM	5575	N	GLU	X	372	43.922	12.586	49.651	0.00	0.00
ATOM	5576	H	GLU	X	372	43.767	12.527	50.647	0.00	0.00
ATOM	5577	CA	GLU	X	372	44.075	11.359	48.832	0.00	0.00
ATOM	5578	HA	GLU	X	372	44.995	11.433	48.253	0.00	0.00
ATOM	5579	CB	GLU	X	372	44.124	10.125	49.757	0.00	0.00
ATOM	5580	HB2	GLU	X	372	43.272	10.313	50.410	0.00	0.00
ATOM	5581	HB3	GLU	X	372	43.897	9.220	49.193	0.00	0.00
ATOM	5582	CG	GLU	X	372	45.466	10.038	50.514	0.00	0.00
ATOM	5583	HG2	GLU	X	372	46.301	10.026	49.813	0.00	0.00
ATOM	5584	HG3	GLU	X	372	45.642	10.899	51.159	0.00	0.00
ATOM	5585	CD	GLU	X	372	45.590	8.675	51.218	0.00	0.00
ATOM	5586	OE1	GLU	X	372	44.661	7.814	51.262	0.00	0.00
ATOM	5587	OE2	GLU	X	372	46.705	8.430	51.731	0.00	0.00
ATOM	5588	C	GLU	X	372	43.071	11.254	47.687	0.00	0.00
ATOM	5589	O	GLU	X	372	43.438	10.963	46.579	0.00	0.00
ATOM	5590	N	ALA	X	373	41.735	11.424	47.966	0.00	0.00
ATOM	5591	H	ALA	X	373	41.404	11.658	48.890	0.00	0.00
ATOM	5592	CA	ALA	X	373	40.713	11.266	46.960	0.00	0.00
ATOM	5593	HA	ALA	X	373	40.946	10.485	46.236	0.00	0.00
ATOM	5594	CB	ALA	X	373	39.478	10.783	47.650	0.00	0.00
ATOM	5595	HB1	ALA	X	373	39.258	11.465	48.471	0.00	0.00
ATOM	5596	HB2	ALA	X	373	38.685	10.654	46.913	0.00	0.00
ATOM	5597	HB3	ALA	X	373	39.553	9.822	48.159	0.00	0.00
ATOM	5598	C	ALA	X	373	40.608	12.456	45.984	0.00	0.00
ATOM	5599	O	ALA	X	373	40.315	12.304	44.761	0.00	0.00
ATOM	5600	N	VAL	X	374	40.875	13.703	46.414	0.00	0.00
ATOM	5601	H	VAL	X	374	40.980	13.703	47.419	0.00	0.00
ATOM	5602	CA	VAL	X	374	41.267	14.834	45.539	0.00	0.00
ATOM	5603	HA	VAL	X	374	40.382	14.878	44.903	0.00	0.00
ATOM	5604	CB	VAL	X	374	41.643	16.193	46.183	0.00	0.00
ATOM	5605	HB	VAL	X	374	42.412	16.099	46.949	0.00	0.00
ATOM	5606	CG1	VAL	X	374	42.157	17.271	45.179	0.00	0.00
ATOM	5607	HG11	VAL	X	374	41.447	17.441	44.369	0.00	0.00
ATOM	5608	HG12	VAL	X	374	42.324	18.177	45.760	0.00	0.00
ATOM	5609	HG13	VAL	X	374	43.077	16.949	44.692	0.00	0.00
ATOM	5610	CG2	VAL	X	374	40.406	16.759	46.984	0.00	0.00
ATOM	5611	HG21	VAL	X	374	40.034	16.137	47.798	0.00	0.00
ATOM	5612	HG22	VAL	X	374	40.723	17.713	47.406	0.00	0.00
ATOM	5613	HG23	VAL	X	374	39.491	16.922	46.414	0.00	0.00
ATOM	5614	C	VAL	X	374	42.454	14.469	44.659	0.00	0.00
ATOM	5615	O	VAL	X	374	42.395	14.628	43.435	0.00	0.00
ATOM	5616	N	VAL	X	375	43.511	13.832	45.150	0.00	0.00
ATOM	5617	H	VAL	X	375	43.546	13.856	46.159	0.00	0.00
ATOM	5618	CA	VAL	X	375	44.735	13.456	44.368	0.00	0.00
ATOM	5619	HA	VAL	X	375	45.007	14.333	43.781	0.00	0.00
ATOM	5620	CB	VAL	X	375	45.911	13.140	45.349	0.00	0.00
ATOM	5621	HB	VAL	X	375	45.617	12.418	46.110	0.00	0.00
ATOM	5622	CG1	VAL	X	375	47.098	12.511	44.642	0.00	0.00
ATOM	5623	HG11	VAL	X	375	46.753	11.575	44.202	0.00	0.00
ATOM	5624	HG12	VAL	X	375	47.446	13.230	43.900	0.00	0.00
ATOM	5625	HG13	VAL	X	375	47.871	12.279	45.374	0.00	0.00
ATOM	5626	CG2	VAL	X	375	46.359	14.477	45.955	0.00	0.00
ATOM	5627	HG21	VAL	X	375	47.271	14.476	46.551	0.00	0.00
ATOM	5628	HG22	VAL	X	375	46.605	15.155	45.137	0.00	0.00
ATOM	5629	HG23	VAL	X	375	45.620	14.861	46.657	0.00	0.00
ATOM	5630	C	VAL	X	375	44.365	12.302	43.471	0.00	0.00
ATOM	5631	O	VAL	X	375	44.745	12.363	42.281	0.00	0.00
ATOM	5632	N	LEU	X	376	43.382	11.416	43.761	0.00	0.00
ATOM	5633	H	LEU	X	376	43.158	11.239	44.730	0.00	0.00
ATOM	5634	CA	LEU	X	376	42.869	10.466	42.731	0.00	0.00
ATOM	5635	HA	LEU	X	376	43.708	9.910	42.311	0.00	0.00
ATOM	5636	CB	LEU	X	376	41.970	9.490	43.511	0.00	0.00
ATOM	5637	HB2	LEU	X	376	42.525	9.212	44.406	0.00	0.00
ATOM	5638	HB3	LEU	X	376	41.052	10.012	43.779	0.00	0.00
ATOM	5639	CG	LEU	X	376	41.619	8.126	42.773	0.00	0.00

ATOM	5640	HG	LEU	X	376	41.087	8.310	41.840	0.00	0.00
ATOM	5641	CD1	LEU	X	376	42.983	7.461	42.329	0.00	0.00
ATOM	5642	HD11	LEU	X	376	43.668	7.757	43.124	0.00	0.00
ATOM	5643	HD12	LEU	X	376	42.954	6.383	42.170	0.00	0.00
ATOM	5644	HD13	LEU	X	376	43.201	7.916	41.363	0.00	0.00
ATOM	5645	CD2	LEU	X	376	40.838	7.198	43.606	0.00	0.00
ATOM	5646	HD21	LEU	X	376	40.513	6.250	43.177	0.00	0.00
ATOM	5647	HD22	LEU	X	376	41.312	6.989	44.565	0.00	0.00
ATOM	5648	HD23	LEU	X	376	39.843	7.633	43.701	0.00	0.00
ATOM	5649	C	LEU	X	376	42.188	11.272	41.492	0.00	0.00
ATOM	5650	O	LEU	X	376	42.552	10.947	40.323	0.00	0.00
ATOM	5651	N	HIE	X	377	41.252	12.153	41.688	0.00	0.00
ATOM	5652	H	HIE	X	377	40.943	12.266	42.643	0.00	0.00
ATOM	5653	CA	HIE	X	377	40.713	12.944	40.578	0.00	0.00
ATOM	5654	HA	HIE	X	377	40.245	12.264	39.866	0.00	0.00
ATOM	5655	CB	HIE	X	377	39.621	13.799	41.209	0.00	0.00
ATOM	5656	HB2	HIE	X	377	39.048	13.206	41.921	0.00	0.00
ATOM	5657	HB3	HIE	X	377	40.081	14.679	41.657	0.00	0.00
ATOM	5658	CG	HIE	X	377	38.537	14.297	40.228	0.00	0.00
ATOM	5659	ND1	HIE	X	377	37.651	13.439	39.572	0.00	0.00
ATOM	5660	CE1	HIE	X	377	36.949	14.216	38.749	0.00	0.00
ATOM	5661	HE1	HIE	X	377	36.233	13.813	38.049	0.00	0.00
ATOM	5662	NE2	HIE	X	377	37.353	15.544	38.853	0.00	0.00
ATOM	5663	HE2	HIE	X	377	37.102	16.221	38.146	0.00	0.00
ATOM	5664	CD2	HIE	X	377	38.358	15.587	39.784	0.00	0.00
ATOM	5665	HD2	HIE	X	377	38.991	16.434	40.006	0.00	0.00
ATOM	5666	C	HIE	X	377	41.750	13.787	39.774	0.00	0.00
ATOM	5667	O	HIE	X	377	41.571	13.978	38.505	0.00	0.00
ATOM	5668	N	TYR	X	378	42.790	14.217	40.507	0.00	0.00
ATOM	5669	H	TYR	X	378	42.738	14.154	41.513	0.00	0.00
ATOM	5670	CA	TYR	X	378	43.831	15.124	39.894	0.00	0.00
ATOM	5671	HA	TYR	X	378	43.302	15.637	39.091	0.00	0.00
ATOM	5672	CB	TYR	X	378	44.123	16.288	40.877	0.00	0.00
ATOM	5673	HB2	TYR	X	378	44.139	15.948	41.912	0.00	0.00
ATOM	5674	HB3	TYR	X	378	45.113	16.662	40.614	0.00	0.00
ATOM	5675	CG	TYR	X	378	43.205	17.469	40.816	0.00	0.00
ATOM	5676	CD1	TYR	X	378	43.500	18.705	40.180	0.00	0.00
ATOM	5677	HD1	TYR	X	378	44.359	18.707	39.526	0.00	0.00
ATOM	5678	CE1	TYR	X	378	42.624	19.808	40.108	0.00	0.00
ATOM	5679	HE1	TYR	X	378	42.866	20.753	39.644	0.00	0.00
ATOM	5680	CZ	TYR	X	378	41.440	19.822	40.887	0.00	0.00
ATOM	5681	OH	TYR	X	378	40.628	20.909	40.896	0.00	0.00
ATOM	5682	HH	TYR	X	378	40.886	21.705	40.425	0.00	0.00
ATOM	5683	CE2	TYR	X	378	41.086	18.645	41.498	0.00	0.00
ATOM	5684	HE2	TYR	X	378	40.109	18.505	41.937	0.00	0.00
ATOM	5685	CD2	TYR	X	378	41.992	17.491	41.592	0.00	0.00
ATOM	5686	HD2	TYR	X	378	41.661	16.599	42.104	0.00	0.00
ATOM	5687	C	TYR	X	378	45.016	14.364	39.286	0.00	0.00
ATOM	5688	O	TYR	X	378	45.970	15.089	38.848	0.00	0.00
ATOM	5689	N	THR	X	379	44.982	12.998	39.109	0.00	0.00
ATOM	5690	H	THR	X	379	44.154	12.505	39.413	0.00	0.00
ATOM	5691	CA	THR	X	379	46.017	12.112	38.582	0.00	0.00
ATOM	5692	HA	THR	X	379	46.957	12.285	39.106	0.00	0.00
ATOM	5693	CB	THR	X	379	45.605	10.658	38.879	0.00	0.00
ATOM	5694	HB	THR	X	379	44.561	10.498	38.608	0.00	0.00
ATOM	5695	CG2	THR	X	379	46.421	9.522	38.122	0.00	0.00
ATOM	5696	HG21	THR	X	379	45.968	9.438	37.134	0.00	0.00
ATOM	5697	HG22	THR	X	379	47.479	9.769	38.030	0.00	0.00
ATOM	5698	HG23	THR	X	379	46.350	8.602	38.702	0.00	0.00
ATOM	5699	OG1	THR	X	379	45.573	10.549	40.302	0.00	0.00
ATOM	5700	HG1	THR	X	379	44.680	10.331	40.579	0.00	0.00
ATOM	5701	C	THR	X	379	46.269	12.258	37.122	0.00	0.00
ATOM	5702	O	THR	X	379	45.248	12.522	36.499	0.00	0.00
ATOM	5703	N	ASP	X	380	47.461	12.077	36.544	0.00	0.00
ATOM	5704	H	ASP	X	380	48.254	11.884	37.138	0.00	0.00
ATOM	5705	CA	ASP	X	380	47.713	11.662	35.200	0.00	0.00
ATOM	5706	HA	ASP	X	380	46.870	11.986	34.589	0.00	0.00
ATOM	5707	CB	ASP	X	380	48.915	12.512	34.708	0.00	0.00
ATOM	5708	HB2	ASP	X	380	48.783	13.543	35.037	0.00	0.00
ATOM	5709	HB3	ASP	X	380	49.857	12.215	35.169	0.00	0.00

ATOM	5710	CG	ASP	X	380	49.042	12.469	33.204	0.00	0.00
ATOM	5711	OD1	ASP	X	380	49.052	11.369	32.528	0.00	0.00
ATOM	5712	OD2	ASP	X	380	49.154	13.511	32.543	0.00	0.00
ATOM	5713	C	ASP	X	380	47.834	10.156	35.044	0.00	0.00
ATOM	5714	O	ASP	X	380	48.678	9.567	35.718	0.00	0.00
ATOM	5715	N	TRP	X	381	46.970	9.588	34.221	0.00	0.00
ATOM	5716	H	TRP	X	381	46.310	10.214	33.782	0.00	0.00
ATOM	5717	CA	TRP	X	381	46.722	8.126	34.209	0.00	0.00
ATOM	5718	HA	TRP	X	381	46.642	7.787	35.242	0.00	0.00
ATOM	5719	CB	TRP	X	381	45.317	7.867	33.636	0.00	0.00
ATOM	5720	HB2	TRP	X	381	45.331	8.180	32.592	0.00	0.00
ATOM	5721	HB3	TRP	X	381	45.155	6.789	33.613	0.00	0.00
ATOM	5722	CG	TRP	X	381	44.218	8.666	34.381	0.00	0.00
ATOM	5723	CD1	TRP	X	381	43.623	9.831	33.914	0.00	0.00
ATOM	5724	HD1	TRP	X	381	44.007	10.354	33.051	0.00	0.00
ATOM	5725	NE1	TRP	X	381	42.705	10.307	34.842	0.00	0.00
ATOM	5726	HE1	TRP	X	381	42.306	11.235	34.818	0.00	0.00
ATOM	5727	CE2	TRP	X	381	42.777	9.504	35.998	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	42.274	9.640	37.280	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	41.777	10.573	37.504	0.00	0.00
ATOM	5730	CH2	TRP	X	381	42.465	8.658	38.253	0.00	0.00
ATOM	5731	HH2	TRP	X	381	42.107	8.794	39.263	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	43.070	7.450	37.871	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	43.292	6.729	38.644	0.00	0.00
ATOM	5734	CE3	TRP	X	381	43.672	7.363	36.605	0.00	0.00
ATOM	5735	HE3	TRP	X	381	44.322	6.547	36.325	0.00	0.00
ATOM	5736	CD2	TRP	X	381	43.563	8.398	35.678	0.00	0.00
ATOM	5737	C	TRP	X	381	47.837	7.488	33.383	0.00	0.00
ATOM	5738	O	TRP	X	381	48.062	6.279	33.571	0.00	0.00
ATOM	5739	N	LEU	X	382	48.511	8.263	32.537	0.00	0.00
ATOM	5740	H	LEU	X	382	48.312	9.244	32.403	0.00	0.00
ATOM	5741	CA	LEU	X	382	49.726	7.753	31.880	0.00	0.00
ATOM	5742	HA	LEU	X	382	49.706	6.669	31.766	0.00	0.00
ATOM	5743	CB	LEU	X	382	49.708	8.323	30.407	0.00	0.00
ATOM	5744	HB2	LEU	X	382	48.833	7.989	29.849	0.00	0.00
ATOM	5745	HB3	LEU	X	382	49.820	9.400	30.525	0.00	0.00
ATOM	5746	CG	LEU	X	382	50.998	7.779	29.737	0.00	0.00
ATOM	5747	HG	LEU	X	382	51.888	8.091	30.282	0.00	0.00
ATOM	5748	CD1	LEU	X	382	51.100	6.235	29.563	0.00	0.00
ATOM	5749	HD11	LEU	X	382	51.828	5.885	28.831	0.00	0.00
ATOM	5750	HD12	LEU	X	382	51.235	5.651	30.473	0.00	0.00
ATOM	5751	HD13	LEU	X	382	50.213	5.777	29.126	0.00	0.00
ATOM	5752	CD2	LEU	X	382	51.097	8.279	28.249	0.00	0.00
ATOM	5753	HD21	LEU	X	382	50.369	7.752	27.632	0.00	0.00
ATOM	5754	HD22	LEU	X	382	50.752	9.311	28.185	0.00	0.00
ATOM	5755	HD23	LEU	X	382	52.154	8.432	28.027	0.00	0.00
ATOM	5756	C	LEU	X	382	50.994	8.120	32.695	0.00	0.00
ATOM	5757	O	LEU	X	382	51.888	7.354	32.732	0.00	0.00
ATOM	5758	N	HIE	X	383	50.962	9.312	33.364	0.00	0.00
ATOM	5759	H	HIE	X	383	50.162	9.898	33.170	0.00	0.00
ATOM	5760	CA	HIE	X	383	52.135	9.871	34.064	0.00	0.00
ATOM	5761	HA	HIE	X	383	52.960	9.162	33.992	0.00	0.00
ATOM	5762	CB	HIE	X	383	52.510	11.201	33.333	0.00	0.00
ATOM	5763	HB2	HIE	X	383	51.664	11.887	33.344	0.00	0.00
ATOM	5764	HB3	HIE	X	383	53.365	11.731	33.753	0.00	0.00
ATOM	5765	CG	HIE	X	383	52.856	10.917	31.909	0.00	0.00
ATOM	5766	ND1	HIE	X	383	53.887	10.252	31.278	0.00	0.00
ATOM	5767	CE1	HIE	X	383	53.612	10.262	29.998	0.00	0.00
ATOM	5768	HE1	HIE	X	383	54.131	9.623	29.298	0.00	0.00
ATOM	5769	NE2	HIE	X	383	52.461	10.922	29.722	0.00	0.00
ATOM	5770	HE2	HIE	X	383	51.898	10.904	28.884	0.00	0.00
ATOM	5771	CD2	HIE	X	383	51.999	11.339	30.938	0.00	0.00
ATOM	5772	HD2	HIE	X	383	51.031	11.788	31.107	0.00	0.00
ATOM	5773	C	HIE	X	383	51.889	10.178	35.612	0.00	0.00
ATOM	5774	O	HIE	X	383	52.117	11.372	36.086	0.00	0.00
ATOM	5775	N	PRO	X	384	51.460	9.207	36.422	0.00	0.00
ATOM	5776	CD	PRO	X	384	51.344	7.757	36.067	0.00	0.00
ATOM	5777	HD2	PRO	X	384	52.268	7.435	35.587	0.00	0.00
ATOM	5778	HD3	PRO	X	384	50.456	7.624	35.449	0.00	0.00
ATOM	5779	CG	PRO	X	384	51.118	7.002	37.363	0.00	0.00

ATOM	5780	HG2	PRO	X	384	52.063	6.740	37.840	0.00	0.00
ATOM	5781	HG3	PRO	X	384	50.534	6.103	37.168	0.00	0.00
ATOM	5782	CB	PRO	X	384	50.430	8.062	38.207	0.00	0.00
ATOM	5783	HB2	PRO	X	384	50.496	7.842	39.272	0.00	0.00
ATOM	5784	HB3	PRO	X	384	49.372	8.233	38.009	0.00	0.00
ATOM	5785	CA	PRO	X	384	51.210	9.345	37.834	0.00	0.00
ATOM	5786	HA	PRO	X	384	50.491	10.125	38.085	0.00	0.00
ATOM	5787	C	PRO	X	384	52.354	9.717	38.743	0.00	0.00
ATOM	5788	O	PRO	X	384	52.237	9.898	39.960	0.00	0.00
ATOM	5789	N	GLU	X	385	53.594	9.950	38.231	0.00	0.00
ATOM	5790	H	GLU	X	385	53.680	10.025	37.227	0.00	0.00
ATOM	5791	CA	GLU	X	385	54.799	10.428	39.040	0.00	0.00
ATOM	5792	HA	GLU	X	385	54.447	10.831	39.989	0.00	0.00
ATOM	5793	CB	GLU	X	385	55.789	9.260	39.265	0.00	0.00
ATOM	5794	HB2	GLU	X	385	56.024	8.853	38.281	0.00	0.00
ATOM	5795	HB3	GLU	X	385	56.678	9.533	39.833	0.00	0.00
ATOM	5796	CG	GLU	X	385	55.225	8.093	40.005	0.00	0.00
ATOM	5797	HG2	GLU	X	385	55.028	8.408	41.029	0.00	0.00
ATOM	5798	HG3	GLU	X	385	54.303	7.746	39.537	0.00	0.00
ATOM	5799	CD	GLU	X	385	56.207	6.971	39.973	0.00	0.00
ATOM	5800	OE1	GLU	X	385	56.250	6.262	38.915	0.00	0.00
ATOM	5801	OE2	GLU	X	385	57.040	6.814	40.927	0.00	0.00
ATOM	5802	C	GLU	X	385	55.566	11.559	38.252	0.00	0.00
ATOM	5803	O	GLU	X	385	56.672	11.927	38.720	0.00	0.00
ATOM	5804	N	ASP	X	386	55.082	12.053	37.117	0.00	0.00
ATOM	5805	H	ASP	X	386	54.096	11.882	36.981	0.00	0.00
ATOM	5806	CA	ASP	X	386	55.817	13.034	36.314	0.00	0.00
ATOM	5807	HA	ASP	X	386	56.828	12.629	36.269	0.00	0.00
ATOM	5808	CB	ASP	X	386	55.289	13.006	34.863	0.00	0.00
ATOM	5809	HB2	ASP	X	386	55.401	11.969	34.544	0.00	0.00
ATOM	5810	HB3	ASP	X	386	54.218	13.205	34.890	0.00	0.00
ATOM	5811	CG	ASP	X	386	55.970	13.997	33.913	0.00	0.00
ATOM	5812	OD1	ASP	X	386	56.502	15.049	34.333	0.00	0.00
ATOM	5813	OD2	ASP	X	386	56.202	13.596	32.729	0.00	0.00
ATOM	5814	C	ASP	X	386	55.729	14.410	37.123	0.00	0.00
ATOM	5815	O	ASP	X	386	54.641	14.882	37.438	0.00	0.00
ATOM	5816	N	PRO	X	387	56.970	14.888	37.458	0.00	0.00
ATOM	5817	CD	PRO	X	387	58.233	14.402	36.951	0.00	0.00
ATOM	5818	HD2	PRO	X	387	58.301	14.460	35.865	0.00	0.00
ATOM	5819	HD3	PRO	X	387	58.429	13.363	37.214	0.00	0.00
ATOM	5820	CG	PRO	X	387	59.315	15.310	37.559	0.00	0.00
ATOM	5821	HG2	PRO	X	387	59.617	15.944	36.725	0.00	0.00
ATOM	5822	HG3	PRO	X	387	60.162	14.691	37.855	0.00	0.00
ATOM	5823	CB	PRO	X	387	58.600	16.100	38.765	0.00	0.00
ATOM	5824	HB2	PRO	X	387	59.071	17.062	38.966	0.00	0.00
ATOM	5825	HB3	PRO	X	387	58.674	15.471	39.652	0.00	0.00
ATOM	5826	CA	PRO	X	387	57.139	16.022	38.298	0.00	0.00
ATOM	5827	HA	PRO	X	387	56.499	15.958	39.178	0.00	0.00
ATOM	5828	C	PRO	X	387	56.692	17.290	37.571	0.00	0.00
ATOM	5829	O	PRO	X	387	56.331	18.225	38.253	0.00	0.00
ATOM	5830	N	ALA	X	388	56.693	17.393	36.236	0.00	0.00
ATOM	5831	H	ALA	X	388	57.066	16.634	35.683	0.00	0.00
ATOM	5832	CA	ALA	X	388	56.319	18.620	35.541	0.00	0.00
ATOM	5833	HA	ALA	X	388	56.798	19.477	36.013	0.00	0.00
ATOM	5834	CB	ALA	X	388	56.833	18.496	34.078	0.00	0.00
ATOM	5835	HB1	ALA	X	388	57.910	18.659	34.064	0.00	0.00
ATOM	5836	HB2	ALA	X	388	56.616	17.499	33.697	0.00	0.00
ATOM	5837	HB3	ALA	X	388	56.343	19.251	33.462	0.00	0.00
ATOM	5838	C	ALA	X	388	54.825	18.743	35.568	0.00	0.00
ATOM	5839	O	ALA	X	388	54.238	19.855	35.609	0.00	0.00
ATOM	5840	N	ARG	X	389	54.080	17.636	35.426	0.00	0.00
ATOM	5841	H	ARG	X	389	54.692	16.833	35.431	0.00	0.00
ATOM	5842	CA	ARG	X	389	52.612	17.471	35.417	0.00	0.00
ATOM	5843	HA	ARG	X	389	52.137	18.302	34.895	0.00	0.00
ATOM	5844	CB	ARG	X	389	52.239	16.203	34.711	0.00	0.00
ATOM	5845	HB2	ARG	X	389	52.602	15.343	35.274	0.00	0.00
ATOM	5846	HB3	ARG	X	389	51.149	16.173	34.726	0.00	0.00
ATOM	5847	CG	ARG	X	389	52.869	16.131	33.393	0.00	0.00
ATOM	5848	HG2	ARG	X	389	52.584	17.007	32.809	0.00	0.00
ATOM	5849	HG3	ARG	X	389	53.944	15.951	33.371	0.00	0.00

ATOM	5850	CD	ARG	X	389	52.365	14.855	32.703	0.00	0.00
ATOM	5851	HD2	ARG	X	389	52.699	14.018	33.317	0.00	0.00
ATOM	5852	HD3	ARG	X	389	51.284	14.715	32.695	0.00	0.00
ATOM	5853	NE	ARG	X	389	52.882	14.694	31.386	0.00	0.00
ATOM	5854	HE	ARG	X	389	53.872	14.671	31.187	0.00	0.00
ATOM	5855	CZ	ARG	X	389	52.240	14.430	30.269	0.00	0.00
ATOM	5856	NH1	ARG	X	389	50.952	14.452	30.197	0.00	0.00
ATOM	5857	HH11	ARG	X	389	50.496	14.536	31.094	0.00	0.00
ATOM	5858	HH12	ARG	X	389	50.441	14.500	29.327	0.00	0.00
ATOM	5859	NH2	ARG	X	389	52.834	14.167	29.165	0.00	0.00
ATOM	5860	HH21	ARG	X	389	53.843	14.143	29.163	0.00	0.00
ATOM	5861	HH22	ARG	X	389	52.345	13.993	28.298	0.00	0.00
ATOM	5862	C	ARG	X	389	51.985	17.575	36.805	0.00	0.00
ATOM	5863	O	ARG	X	389	50.962	18.270	36.986	0.00	0.00
ATOM	5864	N	LEU	X	390	52.551	17.117	37.924	0.00	0.00
ATOM	5865	H	LEU	X	390	53.349	16.520	37.761	0.00	0.00
ATOM	5866	CA	LEU	X	390	52.154	17.231	39.298	0.00	0.00
ATOM	5867	HA	LEU	X	390	51.101	16.983	39.430	0.00	0.00
ATOM	5868	CB	LEU	X	390	52.922	16.252	40.242	0.00	0.00
ATOM	5869	HB2	LEU	X	390	54.002	16.368	40.148	0.00	0.00
ATOM	5870	HB3	LEU	X	390	52.931	16.497	41.304	0.00	0.00
ATOM	5871	CG	LEU	X	390	52.625	14.712	40.131	0.00	0.00
ATOM	5872	HG	LEU	X	390	52.568	14.441	39.076	0.00	0.00
ATOM	5873	CD1	LEU	X	390	53.839	13.900	40.689	0.00	0.00
ATOM	5874	HD11	LEU	X	390	54.194	14.151	41.688	0.00	0.00
ATOM	5875	HD12	LEU	X	390	53.533	12.854	40.700	0.00	0.00
ATOM	5876	HD13	LEU	X	390	54.668	14.002	39.989	0.00	0.00
ATOM	5877	CD2	LEU	X	390	51.293	14.348	40.874	0.00	0.00
ATOM	5878	HD21	LEU	X	390	50.647	15.225	40.836	0.00	0.00
ATOM	5879	HD22	LEU	X	390	50.887	13.435	40.436	0.00	0.00
ATOM	5880	HD23	LEU	X	390	51.484	14.151	41.929	0.00	0.00
ATOM	5881	C	LEU	X	390	52.223	18.692	39.805	0.00	0.00
ATOM	5882	O	LEU	X	390	51.271	19.294	40.338	0.00	0.00
ATOM	5883	N	ARG	X	391	53.372	19.332	39.676	0.00	0.00
ATOM	5884	H	ARG	X	391	54.129	18.693	39.479	0.00	0.00
ATOM	5885	CA	ARG	X	391	53.702	20.726	39.837	0.00	0.00
ATOM	5886	HA	ARG	X	391	53.602	21.046	40.874	0.00	0.00
ATOM	5887	CB	ARG	X	391	55.143	20.967	39.335	0.00	0.00
ATOM	5888	HB2	ARG	X	391	55.763	20.314	39.948	0.00	0.00
ATOM	5889	HB3	ARG	X	391	55.278	20.604	38.317	0.00	0.00
ATOM	5890	CG	ARG	X	391	55.561	22.393	39.526	0.00	0.00
ATOM	5891	HG2	ARG	X	391	54.841	23.033	39.017	0.00	0.00
ATOM	5892	HG3	ARG	X	391	55.724	22.601	40.583	0.00	0.00
ATOM	5893	CD	ARG	X	391	56.812	22.768	38.814	0.00	0.00
ATOM	5894	HD2	ARG	X	391	56.987	23.783	39.173	0.00	0.00
ATOM	5895	HD3	ARG	X	391	57.604	22.144	39.228	0.00	0.00
ATOM	5896	NE	ARG	X	391	56.777	22.659	37.311	0.00	0.00
ATOM	5897	HE	ARG	X	391	57.535	22.175	36.851	0.00	0.00
ATOM	5898	CZ	ARG	X	391	55.955	23.201	36.396	0.00	0.00
ATOM	5899	NH1	ARG	X	391	55.101	24.129	36.786	0.00	0.00
ATOM	5900	HH11	ARG	X	391	54.993	24.339	37.768	0.00	0.00
ATOM	5901	HH12	ARG	X	391	54.526	24.437	36.015	0.00	0.00
ATOM	5902	NH2	ARG	X	391	55.981	22.892	35.111	0.00	0.00
ATOM	5903	HH21	ARG	X	391	56.620	22.169	34.812	0.00	0.00
ATOM	5904	HH22	ARG	X	391	55.485	23.483	34.459	0.00	0.00
ATOM	5905	C	ARG	X	391	52.557	21.517	39.151	0.00	0.00
ATOM	5906	O	ARG	X	391	51.861	22.349	39.781	0.00	0.00
ATOM	5907	N	GLU	X	392	52.291	21.244	37.914	0.00	0.00
ATOM	5908	H	GLU	X	392	52.883	20.519	37.534	0.00	0.00
ATOM	5909	CA	GLU	X	392	51.364	21.931	37.051	0.00	0.00
ATOM	5910	HA	GLU	X	392	51.572	23.001	37.076	0.00	0.00
ATOM	5911	CB	GLU	X	392	51.580	21.472	35.647	0.00	0.00
ATOM	5912	HB2	GLU	X	392	52.660	21.471	35.494	0.00	0.00
ATOM	5913	HB3	GLU	X	392	51.225	20.462	35.445	0.00	0.00
ATOM	5914	CG	GLU	X	392	51.174	22.451	34.472	0.00	0.00
ATOM	5915	HG2	GLU	X	392	51.806	22.303	33.596	0.00	0.00
ATOM	5916	HG3	GLU	X	392	50.166	22.163	34.172	0.00	0.00
ATOM	5917	CD	GLU	X	392	51.059	23.990	34.835	0.00	0.00
ATOM	5918	OE1	GLU	X	392	52.137	24.640	35.033	0.00	0.00
ATOM	5919	OE2	GLU	X	392	49.917	24.525	34.982	0.00	0.00

ATOM	5920	C	GLU	X	392	49.943	21.759	37.475	0.00	0.00
ATOM	5921	O	GLU	X	392	49.235	22.748	37.634	0.00	0.00
ATOM	5922	N	ALA	X	393	49.483	20.535	37.860	0.00	0.00
ATOM	5923	H	ALA	X	393	50.109	19.770	37.650	0.00	0.00
ATOM	5924	CA	ALA	X	393	48.118	20.277	38.296	0.00	0.00
ATOM	5925	HA	ALA	X	393	47.470	20.888	37.668	0.00	0.00
ATOM	5926	CB	ALA	X	393	47.678	18.812	38.203	0.00	0.00
ATOM	5927	HB1	ALA	X	393	47.437	18.452	37.203	0.00	0.00
ATOM	5928	HB2	ALA	X	393	48.292	18.117	38.775	0.00	0.00
ATOM	5929	HB3	ALA	X	393	46.753	18.654	38.757	0.00	0.00
ATOM	5930	C	ALA	X	393	47.856	20.896	39.700	0.00	0.00
ATOM	5931	O	ALA	X	393	46.689	21.193	39.996	0.00	0.00
ATOM	5932	N	LEU	X	394	48.831	21.025	40.624	0.00	0.00
ATOM	5933	H	LEU	X	394	49.752	20.788	40.282	0.00	0.00
ATOM	5934	CA	LEU	X	394	48.686	21.772	41.860	0.00	0.00
ATOM	5935	HA	LEU	X	394	47.895	21.213	42.358	0.00	0.00
ATOM	5936	CB	LEU	X	394	49.862	21.701	42.730	0.00	0.00
ATOM	5937	HB2	LEU	X	394	50.303	20.707	42.665	0.00	0.00
ATOM	5938	HB3	LEU	X	394	50.581	22.381	42.271	0.00	0.00
ATOM	5939	CG	LEU	X	394	49.630	22.004	44.238	0.00	0.00
ATOM	5940	HG	LEU	X	394	49.177	22.990	44.343	0.00	0.00
ATOM	5941	CD1	LEU	X	394	48.665	21.032	44.927	0.00	0.00
ATOM	5942	HD11	LEU	X	394	48.526	21.459	45.921	0.00	0.00
ATOM	5943	HD12	LEU	X	394	47.716	21.047	44.390	0.00	0.00
ATOM	5944	HD13	LEU	X	394	48.998	20.008	45.092	0.00	0.00
ATOM	5945	CD2	LEU	X	394	50.946	21.835	44.973	0.00	0.00
ATOM	5946	HD21	LEU	X	394	51.220	20.787	44.852	0.00	0.00
ATOM	5947	HD22	LEU	X	394	51.639	22.560	44.547	0.00	0.00
ATOM	5948	HD23	LEU	X	394	51.028	21.948	46.054	0.00	0.00
ATOM	5949	C	LEU	X	394	48.323	23.248	41.757	0.00	0.00
ATOM	5950	O	LEU	X	394	47.432	23.685	42.475	0.00	0.00
ATOM	5951	N	SER	X	395	48.902	23.954	40.765	0.00	0.00
ATOM	5952	H	SER	X	395	49.596	23.496	40.192	0.00	0.00
ATOM	5953	CA	SER	X	395	48.522	25.382	40.610	0.00	0.00
ATOM	5954	HA	SER	X	395	48.509	25.958	41.535	0.00	0.00
ATOM	5955	CB	SER	X	395	49.421	26.122	39.639	0.00	0.00
ATOM	5956	HB2	SER	X	395	49.318	27.207	39.670	0.00	0.00
ATOM	5957	HB3	SER	X	395	50.436	25.849	39.925	0.00	0.00
ATOM	5958	OG	SER	X	395	49.291	25.804	38.246	0.00	0.00
ATOM	5959	HG	SER	X	395	50.026	26.210	37.780	0.00	0.00
ATOM	5960	C	SER	X	395	47.065	25.416	40.130	0.00	0.00
ATOM	5961	O	SER	X	395	46.275	26.361	40.456	0.00	0.00
ATOM	5962	N	ASP	X	396	46.584	24.356	39.440	0.00	0.00
ATOM	5963	H	ASP	X	396	47.241	23.642	39.158	0.00	0.00
ATOM	5964	CA	ASP	X	396	45.117	24.092	39.232	0.00	0.00
ATOM	5965	HA	ASP	X	396	44.712	25.047	38.897	0.00	0.00
ATOM	5966	CB	ASP	X	396	44.839	23.094	38.162	0.00	0.00
ATOM	5967	HB2	ASP	X	396	45.324	22.174	38.487	0.00	0.00
ATOM	5968	HB3	ASP	X	396	43.766	22.939	38.046	0.00	0.00
ATOM	5969	CG	ASP	X	396	45.300	23.463	36.785	0.00	0.00
ATOM	5970	OD1	ASP	X	396	46.440	23.012	36.357	0.00	0.00
ATOM	5971	OD2	ASP	X	396	44.674	24.289	36.150	0.00	0.00
ATOM	5972	C	ASP	X	396	44.389	23.803	40.589	0.00	0.00
ATOM	5973	O	ASP	X	396	43.382	24.427	40.862	0.00	0.00
ATOM	5974	N	VAL	X	397	44.713	22.810	41.416	0.00	0.00
ATOM	5975	H	VAL	X	397	45.262	22.075	40.993	0.00	0.00
ATOM	5976	CA	VAL	X	397	44.024	22.499	42.671	0.00	0.00
ATOM	5977	HA	VAL	X	397	43.066	22.076	42.369	0.00	0.00
ATOM	5978	CB	VAL	X	397	44.751	21.450	43.599	0.00	0.00
ATOM	5979	HB	VAL	X	397	45.623	21.931	44.042	0.00	0.00
ATOM	5980	CG1	VAL	X	397	43.913	21.060	44.768	0.00	0.00
ATOM	5981	HG11	VAL	X	397	44.494	20.617	45.576	0.00	0.00
ATOM	5982	HG12	VAL	X	397	43.525	21.887	45.363	0.00	0.00
ATOM	5983	HG13	VAL	X	397	43.129	20.375	44.443	0.00	0.00
ATOM	5984	CG2	VAL	X	397	45.184	20.094	42.967	0.00	0.00
ATOM	5985	HG21	VAL	X	397	44.304	19.520	42.680	0.00	0.00
ATOM	5986	HG22	VAL	X	397	45.803	20.248	42.082	0.00	0.00
ATOM	5987	HG23	VAL	X	397	45.671	19.453	43.701	0.00	0.00
ATOM	5988	C	VAL	X	397	43.809	23.760	43.487	0.00	0.00
ATOM	5989	O	VAL	X	397	42.684	24.011	43.917	0.00	0.00

ATOM	5990	N	VAL	X	398	44.893	24.592	43.642	0.00	0.00
ATOM	5991	H	VAL	X	398	45.819	24.314	43.351	0.00	0.00
ATOM	5992	CA	VAL	X	398	44.779	25.762	44.484	0.00	0.00
ATOM	5993	HA	VAL	X	398	44.129	25.475	45.310	0.00	0.00
ATOM	5994	CB	VAL	X	398	46.128	26.258	45.227	0.00	0.00
ATOM	5995	HB	VAL	X	398	46.733	26.699	44.435	0.00	0.00
ATOM	5996	CG1	VAL	X	398	45.982	27.422	46.214	0.00	0.00
ATOM	5997	HG11	VAL	X	398	45.883	28.354	45.658	0.00	0.00
ATOM	5998	HG12	VAL	X	398	45.074	27.163	46.759	0.00	0.00
ATOM	5999	HG13	VAL	X	398	46.874	27.393	46.839	0.00	0.00
ATOM	6000	CG2	VAL	X	398	46.914	25.104	45.879	0.00	0.00
ATOM	6001	HG21	VAL	X	398	46.265	24.733	46.673	0.00	0.00
ATOM	6002	HG22	VAL	X	398	47.310	24.299	45.260	0.00	0.00
ATOM	6003	HG23	VAL	X	398	47.854	25.449	46.309	0.00	0.00
ATOM	6004	C	VAL	X	398	44.049	26.949	43.769	0.00	0.00
ATOM	6005	O	VAL	X	398	43.609	27.810	44.460	0.00	0.00
ATOM	6006	N	GLY	X	399	43.879	26.946	42.480	0.00	0.00
ATOM	6007	H	GLY	X	399	44.199	26.128	41.982	0.00	0.00
ATOM	6008	CA	GLY	X	399	43.080	27.878	41.741	0.00	0.00
ATOM	6009	HA2	GLY	X	399	43.075	28.921	42.034	0.00	0.00
ATOM	6010	HA3	GLY	X	399	43.369	27.722	40.730	0.00	0.00
ATOM	6011	C	GLY	X	399	41.607	27.475	41.699	0.00	0.00
ATOM	6012	O	GLY	X	399	40.761	28.257	42.080	0.00	0.00
ATOM	6013	N	ASP	X	400	41.318	26.222	41.320	0.00	0.00
ATOM	6014	H	ASP	X	400	42.066	25.639	40.974	0.00	0.00
ATOM	6015	CA	ASP	X	400	39.949	25.732	41.188	0.00	0.00
ATOM	6016	HA	ASP	X	400	39.369	26.223	40.406	0.00	0.00
ATOM	6017	CB	ASP	X	400	40.117	24.252	40.830	0.00	0.00
ATOM	6018	HB2	ASP	X	400	40.747	23.860	41.628	0.00	0.00
ATOM	6019	HB3	ASP	X	400	39.151	23.746	40.834	0.00	0.00
ATOM	6020	CG	ASP	X	400	40.587	24.097	39.386	0.00	0.00
ATOM	6021	OD1	ASP	X	400	40.514	25.055	38.581	0.00	0.00
ATOM	6022	OD2	ASP	X	400	40.855	22.864	39.031	0.00	0.00
ATOM	6023	C	ASP	X	400	39.133	25.882	42.507	0.00	0.00
ATOM	6024	O	ASP	X	400	38.240	26.658	42.564	0.00	0.00
ATOM	6025	N	HIE	X	401	39.565	25.230	43.623	0.00	0.00
ATOM	6026	H	HIE	X	401	40.434	24.714	43.623	0.00	0.00
ATOM	6027	CA	HIE	X	401	38.798	25.187	44.925	0.00	0.00
ATOM	6028	HA	HIE	X	401	37.818	24.742	44.749	0.00	0.00
ATOM	6029	CB	HIE	X	401	39.495	24.337	45.919	0.00	0.00
ATOM	6030	HB2	HIE	X	401	39.293	23.309	45.619	0.00	0.00
ATOM	6031	HB3	HIE	X	401	40.551	24.602	45.946	0.00	0.00
ATOM	6032	CG	HIE	X	401	39.071	24.636	47.318	0.00	0.00
ATOM	6033	ND1	HIE	X	401	37.927	24.251	47.910	0.00	0.00
ATOM	6034	CE1	HIE	X	401	37.999	24.731	49.167	0.00	0.00
ATOM	6035	HE1	HIE	X	401	37.120	24.822	49.788	0.00	0.00
ATOM	6036	NE2	HIE	X	401	39.161	25.372	49.396	0.00	0.00
ATOM	6037	HE2	HIE	X	401	39.405	25.914	50.213	0.00	0.00
ATOM	6038	CD2	HIE	X	401	39.889	25.261	48.254	0.00	0.00
ATOM	6039	HD2	HIE	X	401	40.861	25.714	48.133	0.00	0.00
ATOM	6040	C	HIE	X	401	38.587	26.638	45.351	0.00	0.00
ATOM	6041	O	HIE	X	401	37.480	26.994	45.843	0.00	0.00
ATOM	6042	N	ASN	X	402	39.637	27.503	45.242	0.00	0.00
ATOM	6043	H	ASN	X	402	40.504	27.112	44.901	0.00	0.00
ATOM	6044	CA	ASN	X	402	39.554	28.855	45.744	0.00	0.00
ATOM	6045	HA	ASN	X	402	38.879	28.786	46.598	0.00	0.00
ATOM	6046	CB	ASN	X	402	40.911	29.372	46.294	0.00	0.00
ATOM	6047	HB2	ASN	X	402	41.664	29.321	45.508	0.00	0.00
ATOM	6048	HB3	ASN	X	402	40.773	30.430	46.517	0.00	0.00
ATOM	6049	CG	ASN	X	402	41.425	28.420	47.438	0.00	0.00
ATOM	6050	OD1	ASN	X	402	40.981	28.502	48.570	0.00	0.00
ATOM	6051	ND2	ASN	X	402	42.289	27.580	47.028	0.00	0.00
ATOM	6052	HD21	ASN	X	402	42.794	27.090	47.753	0.00	0.00
ATOM	6053	HD22	ASN	X	402	42.593	27.622	46.066	0.00	0.00
ATOM	6054	C	ASN	X	402	38.994	29.889	44.799	0.00	0.00
ATOM	6055	O	ASN	X	402	38.200	30.746	45.220	0.00	0.00
ATOM	6056	N	VAL	X	403	39.204	29.814	43.495	0.00	0.00
ATOM	6057	H	VAL	X	403	39.882	29.119	43.217	0.00	0.00
ATOM	6058	CA	VAL	X	403	38.831	30.921	42.571	0.00	0.00
ATOM	6059	HA	VAL	X	403	38.286	31.718	43.077	0.00	0.00

ATOM	6060	CB	VAL	X	403	40.156	31.611	42.034	0.00	0.00
ATOM	6061	HB	VAL	X	403	40.619	30.787	41.492	0.00	0.00
ATOM	6062	CG1	VAL	X	403	39.860	32.868	41.173	0.00	0.00
ATOM	6063	HG11	VAL	X	403	40.808	33.342	40.916	0.00	0.00
ATOM	6064	HG12	VAL	X	403	39.341	32.582	40.258	0.00	0.00
ATOM	6065	HG13	VAL	X	403	39.198	33.590	41.651	0.00	0.00
ATOM	6066	CG2	VAL	X	403	41.016	32.102	43.202	0.00	0.00
ATOM	6067	HG21	VAL	X	403	41.466	31.229	43.675	0.00	0.00
ATOM	6068	HG22	VAL	X	403	41.789	32.770	42.823	0.00	0.00
ATOM	6069	HG23	VAL	X	403	40.339	32.765	43.742	0.00	0.00
ATOM	6070	C	VAL	X	403	37.962	30.428	41.364	0.00	0.00
ATOM	6071	O	VAL	X	403	36.946	31.034	41.140	0.00	0.00
ATOM	6072	N	VAL	X	404	38.362	29.330	40.593	0.00	0.00
ATOM	6073	H	VAL	X	404	39.241	28.930	40.888	0.00	0.00
ATOM	6074	CA	VAL	X	404	37.677	29.035	39.286	0.00	0.00
ATOM	6075	HA	VAL	X	404	37.581	30.003	38.795	0.00	0.00
ATOM	6076	CB	VAL	X	404	38.544	28.192	38.318	0.00	0.00
ATOM	6077	HB	VAL	X	404	38.628	27.173	38.696	0.00	0.00
ATOM	6078	CG1	VAL	X	404	37.806	28.170	36.940	0.00	0.00
ATOM	6079	HG11	VAL	X	404	36.826	27.695	36.976	0.00	0.00
ATOM	6080	HG12	VAL	X	404	37.880	29.143	36.454	0.00	0.00
ATOM	6081	HG13	VAL	X	404	38.342	27.469	36.300	0.00	0.00
ATOM	6082	CG2	VAL	X	404	39.897	28.806	38.036	0.00	0.00
ATOM	6083	HG21	VAL	X	404	40.539	28.695	38.909	0.00	0.00
ATOM	6084	HG22	VAL	X	404	40.449	28.444	37.169	0.00	0.00
ATOM	6085	HG23	VAL	X	404	39.742	29.853	37.772	0.00	0.00
ATOM	6086	C	VAL	X	404	36.372	28.301	39.651	0.00	0.00
ATOM	6087	O	VAL	X	404	35.294	28.616	39.108	0.00	0.00
ATOM	6088	N	CYX	X	405	36.314	27.323	40.554	0.00	0.00
ATOM	6089	H	CYX	X	405	37.108	27.030	41.105	0.00	0.00
ATOM	6090	CA	CYX	X	405	35.038	26.649	40.899	0.00	0.00
ATOM	6091	HA	CYX	X	405	34.525	26.485	39.952	0.00	0.00
ATOM	6092	CB	CYX	X	405	35.291	25.374	41.498	0.00	0.00
ATOM	6093	HB2	CYX	X	405	35.972	25.516	42.337	0.00	0.00
ATOM	6094	HB3	CYX	X	405	34.415	24.889	41.929	0.00	0.00
ATOM	6095	SG	CYX	X	405	36.106	24.213	40.320	0.00	0.00
ATOM	6096	C	CYX	X	405	34.052	27.604	41.547	0.00	0.00
ATOM	6097	O	CYX	X	405	32.858	27.608	41.132	0.00	0.00
ATOM	6098	N	PRO	X	406	34.420	28.549	42.430	0.00	0.00
ATOM	6099	CD	PRO	X	406	35.472	28.257	43.409	0.00	0.00
ATOM	6100	HD2	PRO	X	406	36.454	28.581	43.066	0.00	0.00
ATOM	6101	HD3	PRO	X	406	35.459	27.212	43.718	0.00	0.00
ATOM	6102	CG	PRO	X	406	34.961	29.055	44.599	0.00	0.00
ATOM	6103	HG2	PRO	X	406	35.844	29.112	45.235	0.00	0.00
ATOM	6104	HG3	PRO	X	406	34.214	28.471	45.136	0.00	0.00
ATOM	6105	CB	PRO	X	406	34.396	30.371	43.958	0.00	0.00
ATOM	6106	HB2	PRO	X	406	35.222	30.966	43.569	0.00	0.00
ATOM	6107	HB3	PRO	X	406	33.737	30.983	44.574	0.00	0.00
ATOM	6108	CA	PRO	X	406	33.624	29.678	42.862	0.00	0.00
ATOM	6109	HA	PRO	X	406	32.781	29.131	43.285	0.00	0.00
ATOM	6110	C	PRO	X	406	33.077	30.501	41.641	0.00	0.00
ATOM	6111	O	PRO	X	406	31.861	30.680	41.432	0.00	0.00
ATOM	6112	N	VAL	X	407	33.917	30.929	40.706	0.00	0.00
ATOM	6113	H	VAL	X	407	34.878	30.626	40.777	0.00	0.00
ATOM	6114	CA	VAL	X	407	33.598	31.770	39.514	0.00	0.00
ATOM	6115	HA	VAL	X	407	33.060	32.680	39.781	0.00	0.00
ATOM	6116	CB	VAL	X	407	34.902	32.234	38.740	0.00	0.00
ATOM	6117	HB	VAL	X	407	35.655	31.447	38.687	0.00	0.00
ATOM	6118	CG1	VAL	X	407	34.632	32.647	37.268	0.00	0.00
ATOM	6119	HG11	VAL	X	407	33.665	33.066	36.991	0.00	0.00
ATOM	6120	HG12	VAL	X	407	35.420	33.240	36.803	0.00	0.00
ATOM	6121	HG13	VAL	X	407	34.763	31.709	36.729	0.00	0.00
ATOM	6122	CG2	VAL	X	407	35.447	33.390	39.426	0.00	0.00
ATOM	6123	HG21	VAL	X	407	36.424	33.632	39.005	0.00	0.00
ATOM	6124	HG22	VAL	X	407	34.780	34.251	39.474	0.00	0.00
ATOM	6125	HG23	VAL	X	407	35.627	33.158	40.476	0.00	0.00
ATOM	6126	C	VAL	X	407	32.619	31.042	38.601	0.00	0.00
ATOM	6127	O	VAL	X	407	31.597	31.564	38.214	0.00	0.00
ATOM	6128	N	ALA	X	408	32.876	29.755	38.365	0.00	0.00
ATOM	6129	H	ALA	X	408	33.671	29.290	38.778	0.00	0.00

ATOM	6130	CA	ALA	X	408	32.043	28.889	37.498	0.00	0.00
ATOM	6131	HA	ALA	X	408	31.891	29.414	36.555	0.00	0.00
ATOM	6132	CB	ALA	X	408	32.930	27.630	37.216	0.00	0.00
ATOM	6133	HB1	ALA	X	408	33.960	27.765	36.885	0.00	0.00
ATOM	6134	HB2	ALA	X	408	32.953	26.966	38.080	0.00	0.00
ATOM	6135	HB3	ALA	X	408	32.540	27.068	36.368	0.00	0.00
ATOM	6136	C	ALA	X	408	30.666	28.535	38.080	0.00	0.00
ATOM	6137	O	ALA	X	408	29.659	28.567	37.372	0.00	0.00
ATOM	6138	N	GLN	X	409	30.643	28.241	39.372	0.00	0.00
ATOM	6139	H	GLN	X	409	31.489	28.377	39.906	0.00	0.00
ATOM	6140	CA	GLN	X	409	29.367	28.092	40.080	0.00	0.00
ATOM	6141	HA	GLN	X	409	28.754	27.359	39.558	0.00	0.00
ATOM	6142	CB	GLN	X	409	29.663	27.552	41.450	0.00	0.00
ATOM	6143	HB2	GLN	X	409	30.288	26.689	41.217	0.00	0.00
ATOM	6144	HB3	GLN	X	409	30.238	28.328	41.956	0.00	0.00
ATOM	6145	CG	GLN	X	409	28.427	27.159	42.297	0.00	0.00
ATOM	6146	HG2	GLN	X	409	28.793	26.776	43.250	0.00	0.00
ATOM	6147	HG3	GLN	X	409	28.012	28.151	42.472	0.00	0.00
ATOM	6148	CD	GLN	X	409	27.550	26.141	41.510	0.00	0.00
ATOM	6149	OE1	GLN	X	409	27.731	24.924	41.596	0.00	0.00
ATOM	6150	NE2	GLN	X	409	26.553	26.604	40.656	0.00	0.00
ATOM	6151	HE21	GLN	X	409	25.890	25.981	40.217	0.00	0.00
ATOM	6152	HE22	GLN	X	409	26.357	27.595	40.665	0.00	0.00
ATOM	6153	C	GLN	X	409	28.492	29.387	40.134	0.00	0.00
ATOM	6154	O	GLN	X	409	27.265	29.358	39.785	0.00	0.00
ATOM	6155	N	LEU	X	410	29.151	30.493	40.537	0.00	0.00
ATOM	6156	H	LEU	X	410	30.114	30.299	40.770	0.00	0.00
ATOM	6157	CA	LEU	X	410	28.564	31.872	40.444	0.00	0.00
ATOM	6158	HA	LEU	X	410	27.762	32.028	41.164	0.00	0.00
ATOM	6159	CB	LEU	X	410	29.614	32.880	40.848	0.00	0.00
ATOM	6160	HB2	LEU	X	410	29.673	32.753	41.929	0.00	0.00
ATOM	6161	HB3	LEU	X	410	30.576	32.625	40.404	0.00	0.00
ATOM	6162	CG	LEU	X	410	29.326	34.318	40.704	0.00	0.00
ATOM	6163	HG	LEU	X	410	28.673	34.413	39.837	0.00	0.00
ATOM	6164	CD1	LEU	X	410	28.323	34.790	41.889	0.00	0.00
ATOM	6165	HD11	LEU	X	410	27.915	35.775	41.663	0.00	0.00
ATOM	6166	HD12	LEU	X	410	27.432	34.167	41.953	0.00	0.00
ATOM	6167	HD13	LEU	X	410	28.809	34.785	42.865	0.00	0.00
ATOM	6168	CD2	LEU	X	410	30.617	35.219	40.493	0.00	0.00
ATOM	6169	HD21	LEU	X	410	30.980	35.517	41.477	0.00	0.00
ATOM	6170	HD22	LEU	X	410	31.462	34.706	40.036	0.00	0.00
ATOM	6171	HD23	LEU	X	410	30.262	36.121	39.993	0.00	0.00
ATOM	6172	C	LEU	X	410	27.908	32.154	39.115	0.00	0.00
ATOM	6173	O	LEU	X	410	26.693	32.306	39.069	0.00	0.00
ATOM	6174	N	ALA	X	411	28.680	32.315	38.085	0.00	0.00
ATOM	6175	H	ALA	X	411	29.675	32.227	38.229	0.00	0.00
ATOM	6176	CA	ALA	X	411	28.200	32.576	36.625	0.00	0.00
ATOM	6177	HA	ALA	X	411	27.805	33.584	36.751	0.00	0.00
ATOM	6178	CB	ALA	X	411	29.452	32.616	35.703	0.00	0.00
ATOM	6179	HB1	ALA	X	411	30.047	33.457	36.057	0.00	0.00
ATOM	6180	HB2	ALA	X	411	30.003	31.679	35.779	0.00	0.00
ATOM	6181	HB3	ALA	X	411	29.156	32.773	34.666	0.00	0.00
ATOM	6182	C	ALA	X	411	27.095	31.604	36.296	0.00	0.00
ATOM	6183	O	ALA	X	411	26.119	32.053	35.654	0.00	0.00
ATOM	6184	N	GLY	X	412	27.163	30.319	36.719	0.00	0.00
ATOM	6185	H	GLY	X	412	27.871	30.051	37.388	0.00	0.00
ATOM	6186	CA	GLY	X	412	26.064	29.377	36.630	0.00	0.00
ATOM	6187	HA2	GLY	X	412	25.896	29.257	35.527	0.00	0.00
ATOM	6188	HA3	GLY	X	412	26.313	28.368	36.873	0.00	0.00
ATOM	6189	C	GLY	X	412	24.719	29.753	37.206	0.00	0.00
ATOM	6190	O	GLY	X	412	23.814	29.709	36.484	0.00	0.00
ATOM	6191	N	ARG	X	413	24.725	30.153	38.442	0.00	0.00
ATOM	6192	H	ARG	X	413	25.671	30.278	38.773	0.00	0.00
ATOM	6193	CA	ARG	X	413	23.491	30.604	39.199	0.00	0.00
ATOM	6194	HA	ARG	X	413	22.746	29.810	39.263	0.00	0.00
ATOM	6195	CB	ARG	X	413	23.825	30.948	40.731	0.00	0.00
ATOM	6196	HB2	ARG	X	413	24.625	31.682	40.647	0.00	0.00
ATOM	6197	HB3	ARG	X	413	22.937	31.450	41.114	0.00	0.00
ATOM	6198	CG	ARG	X	413	24.255	29.821	41.559	0.00	0.00
ATOM	6199	HG2	ARG	X	413	25.304	29.627	41.335	0.00	0.00

ATOM	6200	HG3	ARG	X	413	24.230	30.015	42.631	0.00	0.00
ATOM	6201	CD	ARG	X	413	23.555	28.452	41.257	0.00	0.00
ATOM	6202	HD2	ARG	X	413	22.471	28.432	41.370	0.00	0.00
ATOM	6203	HD3	ARG	X	413	23.689	28.161	40.215	0.00	0.00
ATOM	6204	NE	ARG	X	413	23.915	27.340	42.229	0.00	0.00
ATOM	6205	HE	ARG	X	413	24.783	27.388	42.742	0.00	0.00
ATOM	6206	CZ	ARG	X	413	23.300	26.200	42.524	0.00	0.00
ATOM	6207	NH1	ARG	X	413	22.297	25.808	41.744	0.00	0.00
ATOM	6208	HH11	ARG	X	413	22.172	26.268	40.854	0.00	0.00
ATOM	6209	HH12	ARG	X	413	21.746	24.985	41.942	0.00	0.00
ATOM	6210	NH2	ARG	X	413	23.780	25.497	43.468	0.00	0.00
ATOM	6211	HH21	ARG	X	413	24.541	25.831	44.041	0.00	0.00
ATOM	6212	HH22	ARG	X	413	23.367	24.591	43.636	0.00	0.00
ATOM	6213	C	ARG	X	413	22.896	31.821	38.646	0.00	0.00
ATOM	6214	O	ARG	X	413	21.771	31.921	38.274	0.00	0.00
ATOM	6215	N	LEU	X	414	23.727	32.855	38.437	0.00	0.00
ATOM	6216	H	LEU	X	414	24.681	32.582	38.626	0.00	0.00
ATOM	6217	CA	LEU	X	414	23.410	34.185	37.901	0.00	0.00
ATOM	6218	HA	LEU	X	414	22.678	34.685	38.535	0.00	0.00
ATOM	6219	CB	LEU	X	414	24.702	35.019	37.654	0.00	0.00
ATOM	6220	HB2	LEU	X	414	25.352	34.537	36.924	0.00	0.00
ATOM	6221	HB3	LEU	X	414	24.420	35.937	37.137	0.00	0.00
ATOM	6222	CG	LEU	X	414	25.542	35.399	38.963	0.00	0.00
ATOM	6223	HG	LEU	X	414	26.058	34.519	39.347	0.00	0.00
ATOM	6224	CD1	LEU	X	414	26.670	36.413	38.598	0.00	0.00
ATOM	6225	HD11	LEU	X	414	27.400	36.560	39.393	0.00	0.00
ATOM	6226	HD12	LEU	X	414	27.290	36.029	37.788	0.00	0.00
ATOM	6227	HD13	LEU	X	414	26.223	37.365	38.309	0.00	0.00
ATOM	6228	CD2	LEU	X	414	24.587	35.862	40.114	0.00	0.00
ATOM	6229	HD21	LEU	X	414	24.102	36.812	39.889	0.00	0.00
ATOM	6230	HD22	LEU	X	414	23.846	35.152	40.481	0.00	0.00
ATOM	6231	HD23	LEU	X	414	25.180	36.082	41.002	0.00	0.00
ATOM	6232	C	LEU	X	414	22.620	34.016	36.560	0.00	0.00
ATOM	6233	O	LEU	X	414	21.500	34.475	36.401	0.00	0.00
ATOM	6234	N	ALA	X	415	23.119	33.191	35.641	0.00	0.00
ATOM	6235	H	ALA	X	415	23.895	32.602	35.909	0.00	0.00
ATOM	6236	CA	ALA	X	415	22.464	32.862	34.340	0.00	0.00
ATOM	6237	HA	ALA	X	415	22.248	33.754	33.752	0.00	0.00
ATOM	6238	CB	ALA	X	415	23.454	32.142	33.387	0.00	0.00
ATOM	6239	HB1	ALA	X	415	24.196	32.853	33.025	0.00	0.00
ATOM	6240	HB2	ALA	X	415	24.006	31.370	33.922	0.00	0.00
ATOM	6241	HB3	ALA	X	415	23.046	31.759	32.451	0.00	0.00
ATOM	6242	C	ALA	X	415	21.151	32.056	34.580	0.00	0.00
ATOM	6243	O	ALA	X	415	20.110	32.443	34.052	0.00	0.00
ATOM	6244	N	ALA	X	416	21.115	31.008	35.445	0.00	0.00
ATOM	6245	H	ALA	X	416	21.999	30.827	35.899	0.00	0.00
ATOM	6246	CA	ALA	X	416	19.891	30.284	35.829	0.00	0.00
ATOM	6247	HA	ALA	X	416	19.470	29.725	34.993	0.00	0.00
ATOM	6248	CB	ALA	X	416	20.259	29.256	36.881	0.00	0.00
ATOM	6249	HB1	ALA	X	416	19.356	28.738	37.202	0.00	0.00
ATOM	6250	HB2	ALA	X	416	20.990	28.610	36.396	0.00	0.00
ATOM	6251	HB3	ALA	X	416	20.804	29.763	37.678	0.00	0.00
ATOM	6252	C	ALA	X	416	18.789	31.241	36.376	0.00	0.00
ATOM	6253	O	ALA	X	416	17.621	31.086	36.049	0.00	0.00
ATOM	6254	N	GLN	X	417	19.176	32.363	37.093	0.00	0.00
ATOM	6255	H	GLN	X	417	20.114	32.300	37.461	0.00	0.00
ATOM	6256	CA	GLN	X	417	18.201	33.292	37.721	0.00	0.00
ATOM	6257	HA	GLN	X	417	17.242	32.773	37.740	0.00	0.00
ATOM	6258	CB	GLN	X	417	18.742	33.667	39.167	0.00	0.00
ATOM	6259	HB2	GLN	X	417	19.786	33.958	39.048	0.00	0.00
ATOM	6260	HB3	GLN	X	417	18.318	34.591	39.559	0.00	0.00
ATOM	6261	CG	GLN	X	417	18.615	32.424	40.131	0.00	0.00
ATOM	6262	HG2	GLN	X	417	17.764	32.539	40.803	0.00	0.00
ATOM	6263	HG3	GLN	X	417	18.487	31.531	39.519	0.00	0.00
ATOM	6264	CD	GLN	X	417	19.869	32.160	40.938	0.00	0.00
ATOM	6265	OE1	GLN	X	417	20.467	31.069	40.935	0.00	0.00
ATOM	6266	NE2	GLN	X	417	20.304	32.989	41.816	0.00	0.00
ATOM	6267	HE21	GLN	X	417	21.215	32.774	42.194	0.00	0.00
ATOM	6268	HE22	GLN	X	417	19.813	33.867	41.909	0.00	0.00
ATOM	6269	C	GLN	X	417	17.845	34.541	36.912	0.00	0.00

ATOM	6270	O	GLN	X	417	17.337	35.493	37.430	0.00	0.00
ATOM	6271	N	GLY	X	418	18.197	34.400	35.661	0.00	0.00
ATOM	6272	H	GLY	X	418	18.955	33.753	35.498	0.00	0.00
ATOM	6273	CA	GLY	X	418	17.924	35.397	34.618	0.00	0.00
ATOM	6274	HA2	GLY	X	418	17.717	34.874	33.690	0.00	0.00
ATOM	6275	HA3	GLY	X	418	17.033	35.892	34.888	0.00	0.00
ATOM	6276	C	GLY	X	418	18.835	36.558	34.209	0.00	0.00
ATOM	6277	O	GLY	X	418	18.408	37.352	33.329	0.00	0.00
ATOM	6278	N	ALA	X	419	20.096	36.565	34.759	0.00	0.00
ATOM	6279	H	ALA	X	419	20.313	35.831	35.417	0.00	0.00
ATOM	6280	CA	ALA	X	419	21.155	37.566	34.445	0.00	0.00
ATOM	6281	HA	ALA	X	419	20.819	38.601	34.509	0.00	0.00
ATOM	6282	CB	ALA	X	419	22.312	37.464	35.496	0.00	0.00
ATOM	6283	HB1	ALA	X	419	22.946	36.623	35.215	0.00	0.00
ATOM	6284	HB2	ALA	X	419	23.005	38.304	35.528	0.00	0.00
ATOM	6285	HB3	ALA	X	419	21.924	37.338	36.507	0.00	0.00
ATOM	6286	C	ALA	X	419	21.631	37.429	32.982	0.00	0.00
ATOM	6287	O	ALA	X	419	21.622	36.342	32.409	0.00	0.00
ATOM	6288	N	ARG	X	420	22.288	38.511	32.569	0.00	0.00
ATOM	6289	H	ARG	X	420	22.304	39.389	33.069	0.00	0.00
ATOM	6290	CA	ARG	X	420	23.108	38.653	31.341	0.00	0.00
ATOM	6291	HA	ARG	X	420	22.831	37.855	30.652	0.00	0.00
ATOM	6292	CB	ARG	X	420	22.737	39.991	30.625	0.00	0.00
ATOM	6293	HB2	ARG	X	420	21.673	39.954	30.390	0.00	0.00
ATOM	6294	HB3	ARG	X	420	22.796	40.826	31.324	0.00	0.00
ATOM	6295	CG	ARG	X	420	23.436	40.368	29.289	0.00	0.00
ATOM	6296	HG2	ARG	X	420	24.490	40.502	29.531	0.00	0.00
ATOM	6297	HG3	ARG	X	420	23.231	39.506	28.654	0.00	0.00
ATOM	6298	CD	ARG	X	420	22.746	41.600	28.567	0.00	0.00
ATOM	6299	HD2	ARG	X	420	21.681	41.375	28.623	0.00	0.00
ATOM	6300	HD3	ARG	X	420	22.965	42.517	29.114	0.00	0.00
ATOM	6301	NE	ARG	X	420	23.236	41.811	27.187	0.00	0.00
ATOM	6302	HE	ARG	X	420	23.960	42.484	26.977	0.00	0.00
ATOM	6303	CZ	ARG	X	420	22.888	41.015	26.183	0.00	0.00
ATOM	6304	NH1	ARG	X	420	22.086	39.961	26.191	0.00	0.00
ATOM	6305	HH11	ARG	X	420	21.792	39.577	27.078	0.00	0.00
ATOM	6306	HH12	ARG	X	420	21.784	39.587	25.303	0.00	0.00
ATOM	6307	NH2	ARG	X	420	23.337	41.353	25.010	0.00	0.00
ATOM	6308	HH21	ARG	X	420	23.744	42.275	24.947	0.00	0.00
ATOM	6309	HH22	ARG	X	420	23.043	40.814	24.208	0.00	0.00
ATOM	6310	C	ARG	X	420	24.647	38.684	31.729	0.00	0.00
ATOM	6311	O	ARG	X	420	25.194	39.764	32.066	0.00	0.00
ATOM	6312	N	VAL	X	421	25.204	37.481	31.702	0.00	0.00
ATOM	6313	H	VAL	X	421	24.590	36.776	31.321	0.00	0.00
ATOM	6314	CA	VAL	X	421	26.540	36.986	32.178	0.00	0.00
ATOM	6315	HA	VAL	X	421	26.840	37.637	32.999	0.00	0.00
ATOM	6316	CB	VAL	X	421	26.398	35.618	32.909	0.00	0.00
ATOM	6317	HB	VAL	X	421	26.003	34.824	32.275	0.00	0.00
ATOM	6318	CG1	VAL	X	421	27.750	35.195	33.529	0.00	0.00
ATOM	6319	HG11	VAL	X	421	28.431	35.078	32.687	0.00	0.00
ATOM	6320	HG12	VAL	X	421	28.074	36.014	34.171	0.00	0.00
ATOM	6321	HG13	VAL	X	421	27.681	34.302	34.150	0.00	0.00
ATOM	6322	CG2	VAL	X	421	25.308	35.673	34.027	0.00	0.00
ATOM	6323	HG21	VAL	X	421	25.498	36.482	34.732	0.00	0.00
ATOM	6324	HG22	VAL	X	421	24.339	35.752	33.534	0.00	0.00
ATOM	6325	HG23	VAL	X	421	25.201	34.695	34.497	0.00	0.00
ATOM	6326	C	VAL	X	421	27.619	37.001	31.053	0.00	0.00
ATOM	6327	O	VAL	X	421	27.165	36.771	29.915	0.00	0.00
ATOM	6328	N	TYR	X	422	28.952	37.084	31.410	0.00	0.00
ATOM	6329	H	TYR	X	422	29.154	37.468	32.322	0.00	0.00
ATOM	6330	CA	TYR	X	422	30.097	36.987	30.493	0.00	0.00
ATOM	6331	HA	TYR	X	422	29.817	36.426	29.601	0.00	0.00
ATOM	6332	CB	TYR	X	422	30.415	38.433	30.019	0.00	0.00
ATOM	6333	HB2	TYR	X	422	30.420	39.266	30.721	0.00	0.00
ATOM	6334	HB3	TYR	X	422	31.451	38.494	29.685	0.00	0.00
ATOM	6335	CG	TYR	X	422	29.460	38.823	28.883	0.00	0.00
ATOM	6336	CD1	TYR	X	422	29.794	38.507	27.545	0.00	0.00
ATOM	6337	HD1	TYR	X	422	30.653	37.856	27.467	0.00	0.00
ATOM	6338	CE1	TYR	X	422	28.915	38.807	26.501	0.00	0.00
ATOM	6339	HE1	TYR	X	422	29.046	38.415	25.504	0.00	0.00

ATOM	6340	CZ	TYR	X	422	27.687	39.518	26.819	0.00	0.00
ATOM	6341	OH	TYR	X	422	26.737	39.733	25.903	0.00	0.00
ATOM	6342	HH	TYR	X	422	26.923	39.449	25.005	0.00	0.00
ATOM	6343	CE2	TYR	X	422	27.462	39.976	28.127	0.00	0.00
ATOM	6344	HE2	TYR	X	422	26.487	40.408	28.295	0.00	0.00
ATOM	6345	CD2	TYR	X	422	28.398	39.676	29.156	0.00	0.00
ATOM	6346	HD2	TYR	X	422	28.157	39.926	30.179	0.00	0.00
ATOM	6347	C	TYR	X	422	31.402	36.351	31.101	0.00	0.00
ATOM	6348	O	TYR	X	422	31.805	36.777	32.180	0.00	0.00
ATOM	6349	N	ALA	X	423	31.938	35.298	30.468	0.00	0.00
ATOM	6350	H	ALA	X	423	31.458	34.947	29.651	0.00	0.00
ATOM	6351	CA	ALA	X	423	33.058	34.572	31.047	0.00	0.00
ATOM	6352	HA	ALA	X	423	33.419	34.982	31.991	0.00	0.00
ATOM	6353	CB	ALA	X	423	32.584	33.184	31.403	0.00	0.00
ATOM	6354	HB1	ALA	X	423	32.410	32.663	30.461	0.00	0.00
ATOM	6355	HB2	ALA	X	423	33.425	32.621	31.806	0.00	0.00
ATOM	6356	HB3	ALA	X	423	31.653	33.250	31.967	0.00	0.00
ATOM	6357	C	ALA	X	423	34.296	34.565	30.091	0.00	0.00
ATOM	6358	O	ALA	X	423	34.198	34.449	28.868	0.00	0.00
ATOM	6359	N	TYR	X	424	35.486	34.539	30.731	0.00	0.00
ATOM	6360	H	TYR	X	424	35.495	34.687	31.730	0.00	0.00
ATOM	6361	CA	TYR	X	424	36.758	34.552	30.141	0.00	0.00
ATOM	6362	HA	TYR	X	424	36.743	34.145	29.130	0.00	0.00
ATOM	6363	CB	TYR	X	424	37.278	36.055	30.013	0.00	0.00
ATOM	6364	HB2	TYR	X	424	38.107	35.982	29.308	0.00	0.00
ATOM	6365	HB3	TYR	X	424	36.472	36.689	29.643	0.00	0.00
ATOM	6366	CG	TYR	X	424	37.771	36.799	31.268	0.00	0.00
ATOM	6367	CD1	TYR	X	424	39.179	36.880	31.533	0.00	0.00
ATOM	6368	HD1	TYR	X	424	39.857	36.217	31.015	0.00	0.00
ATOM	6369	CE1	TYR	X	424	39.543	37.642	32.650	0.00	0.00
ATOM	6370	HE1	TYR	X	424	40.572	37.616	32.978	0.00	0.00
ATOM	6371	CZ	TYR	X	424	38.642	38.341	33.454	0.00	0.00
ATOM	6372	OH	TYR	X	424	39.032	38.749	34.689	0.00	0.00
ATOM	6373	HH	TYR	X	424	39.990	38.797	34.728	0.00	0.00
ATOM	6374	CE2	TYR	X	424	37.262	38.256	33.142	0.00	0.00
ATOM	6375	HE2	TYR	X	424	36.589	38.800	33.788	0.00	0.00
ATOM	6376	CD2	TYR	X	424	36.884	37.501	31.996	0.00	0.00
ATOM	6377	HD2	TYR	X	424	35.835	37.401	31.762	0.00	0.00
ATOM	6378	C	TYR	X	424	37.776	33.744	30.967	0.00	0.00
ATOM	6379	O	TYR	X	424	37.660	33.825	32.218	0.00	0.00
ATOM	6380	N	VAL	X	425	38.845	33.319	30.323	0.00	0.00
ATOM	6381	H	VAL	X	425	38.842	33.377	29.314	0.00	0.00
ATOM	6382	CA	VAL	X	425	40.113	32.974	30.983	0.00	0.00
ATOM	6383	HA	VAL	X	425	40.172	33.250	32.036	0.00	0.00
ATOM	6384	CB	VAL	X	425	40.392	31.475	30.922	0.00	0.00
ATOM	6385	HB	VAL	X	425	40.531	31.187	29.880	0.00	0.00
ATOM	6386	CG1	VAL	X	425	41.675	30.992	31.593	0.00	0.00
ATOM	6387	HG11	VAL	X	425	42.585	31.573	31.442	0.00	0.00
ATOM	6388	HG12	VAL	X	425	41.589	31.041	32.679	0.00	0.00
ATOM	6389	HG13	VAL	X	425	41.953	30.038	31.145	0.00	0.00
ATOM	6390	CG2	VAL	X	425	39.131	30.701	31.387	0.00	0.00
ATOM	6391	HG21	VAL	X	425	39.152	30.460	32.450	0.00	0.00
ATOM	6392	HG22	VAL	X	425	38.177	31.203	31.224	0.00	0.00
ATOM	6393	HG23	VAL	X	425	39.228	29.736	30.890	0.00	0.00
ATOM	6394	C	VAL	X	425	41.192	33.752	30.224	0.00	0.00
ATOM	6395	O	VAL	X	425	41.393	33.584	28.979	0.00	0.00
ATOM	6396	N	PHE	X	426	41.997	34.467	30.954	0.00	0.00
ATOM	6397	H	PHE	X	426	41.823	34.443	31.949	0.00	0.00
ATOM	6398	CA	PHE	X	426	43.158	35.266	30.511	0.00	0.00
ATOM	6399	HA	PHE	X	426	43.021	35.474	29.450	0.00	0.00
ATOM	6400	CB	PHE	X	426	43.261	36.529	31.341	0.00	0.00
ATOM	6401	HB2	PHE	X	426	42.382	37.164	31.233	0.00	0.00
ATOM	6402	HB3	PHE	X	426	43.302	36.266	32.398	0.00	0.00
ATOM	6403	CG	PHE	X	426	44.536	37.340	31.035	0.00	0.00
ATOM	6404	CD1	PHE	X	426	44.439	38.234	29.950	0.00	0.00
ATOM	6405	HD1	PHE	X	426	43.503	38.384	29.432	0.00	0.00
ATOM	6406	CE1	PHE	X	426	45.480	39.160	29.594	0.00	0.00
ATOM	6407	HE1	PHE	X	426	45.316	39.940	28.866	0.00	0.00
ATOM	6408	CZ	PHE	X	426	46.715	39.064	30.297	0.00	0.00
ATOM	6409	HZ	PHE	X	426	47.568	39.720	30.206	0.00	0.00

ATOM	6410	CE2	PHE	X	426	46.838	38.109	31.297	0.00	0.00
ATOM	6411	HE2	PHE	X	426	47.786	38.165	31.813	0.00	0.00
ATOM	6412	CD2	PHE	X	426	45.766	37.254	31.722	0.00	0.00
ATOM	6413	HD2	PHE	X	426	45.907	36.723	32.652	0.00	0.00
ATOM	6414	C	PHE	X	426	44.411	34.415	30.646	0.00	0.00
ATOM	6415	O	PHE	X	426	44.776	33.931	31.706	0.00	0.00
ATOM	6416	N	GLU	X	427	45.242	34.337	29.626	0.00	0.00
ATOM	6417	H	GLU	X	427	45.187	35.002	28.868	0.00	0.00
ATOM	6418	CA	GLU	X	427	46.327	33.365	29.526	0.00	0.00
ATOM	6419	HA	GLU	X	427	46.560	32.961	30.510	0.00	0.00
ATOM	6420	CB	GLU	X	427	45.726	32.257	28.707	0.00	0.00
ATOM	6421	HB2	GLU	X	427	46.541	31.533	28.710	0.00	0.00
ATOM	6422	HB3	GLU	X	427	44.945	31.843	29.344	0.00	0.00
ATOM	6423	CG	GLU	X	427	45.334	32.464	27.261	0.00	0.00
ATOM	6424	HG2	GLU	X	427	44.476	33.135	27.223	0.00	0.00
ATOM	6425	HG3	GLU	X	427	46.181	32.946	26.774	0.00	0.00
ATOM	6426	CD	GLU	X	427	44.971	31.230	26.553	0.00	0.00
ATOM	6427	OE1	GLU	X	427	45.534	31.021	25.434	0.00	0.00
ATOM	6428	OE2	GLU	X	427	43.955	30.556	26.901	0.00	0.00
ATOM	6429	C	GLU	X	427	47.587	33.891	29.000	0.00	0.00
ATOM	6430	O	GLU	X	427	48.330	33.052	28.540	0.00	0.00
ATOM	6431	N	HIE	X	428	47.819	35.222	29.024	0.00	0.00
ATOM	6432	H	HIE	X	428	47.170	35.880	29.430	0.00	0.00
ATOM	6433	CA	HIE	X	428	49.011	35.848	28.412	0.00	0.00
ATOM	6434	HA	HIE	X	428	49.552	35.099	27.833	0.00	0.00
ATOM	6435	CB	HIE	X	428	48.603	37.055	27.460	0.00	0.00
ATOM	6436	HB2	HIE	X	428	47.992	36.731	26.618	0.00	0.00
ATOM	6437	HB3	HIE	X	428	48.033	37.710	28.119	0.00	0.00
ATOM	6438	CG	HIE	X	428	49.849	37.667	26.887	0.00	0.00
ATOM	6439	ND1	HIE	X	428	50.798	36.938	26.232	0.00	0.00
ATOM	6440	CE1	HIE	X	428	51.778	37.826	26.090	0.00	0.00
ATOM	6441	HE1	HIE	X	428	52.645	37.660	25.468	0.00	0.00
ATOM	6442	NE2	HIE	X	428	51.507	38.988	26.556	0.00	0.00
ATOM	6443	HE2	HIE	X	428	51.990	39.875	26.567	0.00	0.00
ATOM	6444	CD2	HIE	X	428	50.264	38.941	27.129	0.00	0.00
ATOM	6445	HD2	HIE	X	428	49.890	39.682	27.819	0.00	0.00
ATOM	6446	C	HIE	X	428	49.989	36.299	29.477	0.00	0.00
ATOM	6447	O	HIE	X	428	49.602	37.216	30.236	0.00	0.00
ATOM	6448	N	ARG	X	429	51.175	35.638	29.461	0.00	0.00
ATOM	6449	H	ARG	X	429	51.300	34.830	28.868	0.00	0.00
ATOM	6450	CA	ARG	X	429	52.348	36.070	30.204	0.00	0.00
ATOM	6451	HA	ARG	X	429	52.012	36.412	31.183	0.00	0.00
ATOM	6452	CB	ARG	X	429	53.437	34.984	30.493	0.00	0.00
ATOM	6453	HB2	ARG	X	429	52.950	34.013	30.591	0.00	0.00
ATOM	6454	HB3	ARG	X	429	54.087	34.979	29.618	0.00	0.00
ATOM	6455	CG	ARG	X	429	54.240	35.332	31.809	0.00	0.00
ATOM	6456	HG2	ARG	X	429	54.622	36.352	31.768	0.00	0.00
ATOM	6457	HG3	ARG	X	429	53.684	35.285	32.745	0.00	0.00
ATOM	6458	CD	ARG	X	429	55.424	34.342	32.039	0.00	0.00
ATOM	6459	HD2	ARG	X	429	56.140	34.577	31.251	0.00	0.00
ATOM	6460	HD3	ARG	X	429	55.877	34.574	33.003	0.00	0.00
ATOM	6461	NE	ARG	X	429	55.145	32.928	31.747	0.00	0.00
ATOM	6462	HE	ARG	X	429	54.444	32.693	31.059	0.00	0.00
ATOM	6463	CZ	ARG	X	429	55.720	31.881	32.283	0.00	0.00
ATOM	6464	NH1	ARG	X	429	56.352	31.917	33.401	0.00	0.00
ATOM	6465	HH11	ARG	X	429	56.727	32.807	33.693	0.00	0.00
ATOM	6466	HH12	ARG	X	429	56.559	31.089	33.941	0.00	0.00
ATOM	6467	NH2	ARG	X	429	55.441	30.769	31.683	0.00	0.00
ATOM	6468	HH21	ARG	X	429	54.788	30.771	30.912	0.00	0.00
ATOM	6469	HH22	ARG	X	429	55.690	29.933	32.192	0.00	0.00
ATOM	6470	C	ARG	X	429	53.024	37.286	29.532	0.00	0.00
ATOM	6471	O	ARG	X	429	53.620	37.141	28.446	0.00	0.00
ATOM	6472	N	ALA	X	430	52.975	38.406	30.249	0.00	0.00
ATOM	6473	H	ALA	X	430	52.548	38.416	31.164	0.00	0.00
ATOM	6474	CA	ALA	X	430	53.571	39.704	29.891	0.00	0.00
ATOM	6475	HA	ALA	X	430	53.141	39.834	28.898	0.00	0.00
ATOM	6476	CB	ALA	X	430	53.133	40.793	30.811	0.00	0.00
ATOM	6477	HB1	ALA	X	430	53.435	41.757	30.402	0.00	0.00
ATOM	6478	HB2	ALA	X	430	52.045	40.842	30.787	0.00	0.00
ATOM	6479	HB3	ALA	X	430	53.451	40.442	31.793	0.00	0.00

ATOM	6480	C	ALA	X	430	55.130	39.631	29.753	0.00	0.00
ATOM	6481	O	ALA	X	430	55.819	38.838	30.422	0.00	0.00
ATOM	6482	N	SER	X	431	55.646	40.399	28.818	0.00	0.00
ATOM	6483	H	SER	X	431	55.067	41.041	28.296	0.00	0.00
ATOM	6484	CA	SER	X	431	57.046	40.189	28.399	0.00	0.00
ATOM	6485	HA	SER	X	431	57.194	39.125	28.211	0.00	0.00
ATOM	6486	CB	SER	X	431	57.392	40.878	27.074	0.00	0.00
ATOM	6487	HB2	SER	X	431	58.463	40.783	26.897	0.00	0.00
ATOM	6488	HB3	SER	X	431	56.852	40.419	26.245	0.00	0.00
ATOM	6489	OG	SER	X	431	56.934	42.277	27.073	0.00	0.00
ATOM	6490	HG	SER	X	431	56.061	42.334	26.679	0.00	0.00
ATOM	6491	C	SER	X	431	58.226	40.401	29.403	0.00	0.00
ATOM	6492	O	SER	X	431	59.306	39.838	29.244	0.00	0.00
ATOM	6493	N	THR	X	432	57.940	41.192	30.400	0.00	0.00
ATOM	6494	H	THR	X	432	57.010	41.552	30.565	0.00	0.00
ATOM	6495	CA	THR	X	432	58.963	41.665	31.358	0.00	0.00
ATOM	6496	HA	THR	X	432	59.955	41.309	31.080	0.00	0.00
ATOM	6497	CB	THR	X	432	58.860	43.186	31.325	0.00	0.00
ATOM	6498	HB	THR	X	432	59.387	43.666	32.150	0.00	0.00
ATOM	6499	CG2	THR	X	432	59.389	43.712	30.032	0.00	0.00
ATOM	6500	HG21	THR	X	432	58.687	43.459	29.238	0.00	0.00
ATOM	6501	HG22	THR	X	432	59.450	44.800	30.055	0.00	0.00
ATOM	6502	HG23	THR	X	432	60.391	43.336	29.826	0.00	0.00
ATOM	6503	OG1	THR	X	432	57.490	43.533	31.502	0.00	0.00
ATOM	6504	HG1	THR	X	432	57.251	43.185	32.363	0.00	0.00
ATOM	6505	C	THR	X	432	58.773	41.163	32.835	0.00	0.00
ATOM	6506	O	THR	X	432	59.493	41.572	33.702	0.00	0.00
ATOM	6507	N	LEU	X	433	57.705	40.368	33.049	0.00	0.00
ATOM	6508	H	LEU	X	433	57.113	40.065	32.288	0.00	0.00
ATOM	6509	CA	LEU	X	433	57.369	39.727	34.354	0.00	0.00
ATOM	6510	HA	LEU	X	433	57.091	40.495	35.075	0.00	0.00
ATOM	6511	CB	LEU	X	433	56.239	38.749	34.024	0.00	0.00
ATOM	6512	HB2	LEU	X	433	55.380	39.206	33.533	0.00	0.00
ATOM	6513	HB3	LEU	X	433	56.671	38.006	33.354	0.00	0.00
ATOM	6514	CG	LEU	X	433	55.742	37.988	35.221	0.00	0.00
ATOM	6515	HG	LEU	X	433	56.561	37.486	35.737	0.00	0.00
ATOM	6516	CD1	LEU	X	433	55.153	38.984	36.301	0.00	0.00
ATOM	6517	HD11	LEU	X	433	55.894	39.195	37.072	0.00	0.00
ATOM	6518	HD12	LEU	X	433	54.853	39.907	35.804	0.00	0.00
ATOM	6519	HD13	LEU	X	433	54.308	38.535	36.823	0.00	0.00
ATOM	6520	CD2	LEU	X	433	54.683	36.925	34.943	0.00	0.00
ATOM	6521	HD21	LEU	X	433	54.291	36.476	35.855	0.00	0.00
ATOM	6522	HD22	LEU	X	433	53.981	37.240	34.171	0.00	0.00
ATOM	6523	HD23	LEU	X	433	55.127	36.108	34.375	0.00	0.00
ATOM	6524	C	LEU	X	433	58.548	39.040	34.877	0.00	0.00
ATOM	6525	O	LEU	X	433	59.222	38.302	34.164	0.00	0.00
ATOM	6526	N	SER	X	434	58.776	39.193	36.146	0.00	0.00
ATOM	6527	H	SER	X	434	58.132	39.772	36.664	0.00	0.00
ATOM	6528	CA	SER	X	434	60.066	38.806	36.810	0.00	0.00
ATOM	6529	HA	SER	X	434	60.766	38.343	36.114	0.00	0.00
ATOM	6530	CB	SER	X	434	60.742	40.040	37.378	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.727	39.780	37.766	0.00	0.00
ATOM	6532	HB3	SER	X	434	60.841	40.844	36.648	0.00	0.00
ATOM	6533	OG	SER	X	434	59.980	40.545	38.451	0.00	0.00
ATOM	6534	HG	SER	X	434	59.171	40.902	38.077	0.00	0.00
ATOM	6535	C	SER	X	434	59.790	37.674	37.835	0.00	0.00
ATOM	6536	O	SER	X	434	60.775	37.219	38.397	0.00	0.00
ATOM	6537	N	TRP	X	435	58.578	37.107	37.973	0.00	0.00
ATOM	6538	H	TRP	X	435	57.804	37.700	37.710	0.00	0.00
ATOM	6539	CA	TRP	X	435	58.435	35.853	38.706	0.00	0.00
ATOM	6540	HA	TRP	X	435	58.882	35.903	39.699	0.00	0.00
ATOM	6541	CB	TRP	X	435	56.950	35.477	38.848	0.00	0.00
ATOM	6542	HB2	TRP	X	435	56.455	35.546	37.880	0.00	0.00
ATOM	6543	HB3	TRP	X	435	56.832	34.399	38.964	0.00	0.00
ATOM	6544	CG	TRP	X	435	56.217	36.277	39.862	0.00	0.00
ATOM	6545	CD1	TRP	X	435	55.091	37.002	39.502	0.00	0.00
ATOM	6546	HD1	TRP	X	435	54.745	37.141	38.488	0.00	0.00
ATOM	6547	NE1	TRP	X	435	54.472	37.483	40.620	0.00	0.00
ATOM	6548	HE1	TRP	X	435	53.572	37.922	40.485	0.00	0.00
ATOM	6549	CE2	TRP	X	435	55.122	37.109	41.803	0.00	0.00

ATOM	6550	CZ2	TRP	X	435	54.796	37.183	43.142	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	53.918	37.739	43.436	0.00	0.00
ATOM	6552	CH2	TRP	X	435	55.582	36.510	44.114	0.00	0.00
ATOM	6553	HH2	TRP	X	435	55.254	36.486	45.143	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	56.646	35.705	43.660	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	57.271	35.178	44.366	0.00	0.00
ATOM	6556	CE3	TRP	X	435	56.920	35.624	42.256	0.00	0.00
ATOM	6557	HE3	TRP	X	435	57.745	34.977	41.999	0.00	0.00
ATOM	6558	CD2	TRP	X	435	56.208	36.341	41.307	0.00	0.00
ATOM	6559	C	TRP	X	435	59.203	34.670	38.129	0.00	0.00
ATOM	6560	O	TRP	X	435	59.429	34.685	36.906	0.00	0.00
ATOM	6561	N	PRO	X	436	59.474	33.544	38.908	0.00	0.00
ATOM	6562	CD	PRO	X	436	59.078	33.316	40.264	0.00	0.00
ATOM	6563	HD2	PRO	X	436	58.059	33.699	40.324	0.00	0.00
ATOM	6564	HD3	PRO	X	436	59.728	33.901	40.914	0.00	0.00
ATOM	6565	CG	PRO	X	436	59.176	31.866	40.490	0.00	0.00
ATOM	6566	HG2	PRO	X	436	58.236	31.430	40.153	0.00	0.00
ATOM	6567	HG3	PRO	X	436	59.468	31.578	41.500	0.00	0.00
ATOM	6568	CB	PRO	X	436	60.240	31.293	39.534	0.00	0.00
ATOM	6569	HB2	PRO	X	436	59.949	30.290	39.223	0.00	0.00
ATOM	6570	HB3	PRO	X	436	61.254	31.362	39.928	0.00	0.00
ATOM	6571	CA	PRO	X	436	60.069	32.310	38.347	0.00	0.00
ATOM	6572	HA	PRO	X	436	61.046	32.516	37.910	0.00	0.00
ATOM	6573	C	PRO	X	436	59.184	31.766	37.243	0.00	0.00
ATOM	6574	O	PRO	X	436	57.953	31.939	37.225	0.00	0.00
ATOM	6575	N	LEU	X	437	59.765	30.967	36.363	0.00	0.00
ATOM	6576	H	LEU	X	437	60.766	30.832	36.401	0.00	0.00
ATOM	6577	CA	LEU	X	437	59.065	30.317	35.311	0.00	0.00
ATOM	6578	HA	LEU	X	437	58.671	31.079	34.639	0.00	0.00
ATOM	6579	CB	LEU	X	437	60.035	29.446	34.532	0.00	0.00
ATOM	6580	HB2	LEU	X	437	60.801	30.187	34.305	0.00	0.00
ATOM	6581	HB3	LEU	X	437	60.534	28.742	35.198	0.00	0.00
ATOM	6582	CG	LEU	X	437	59.501	28.730	33.273	0.00	0.00
ATOM	6583	HG	LEU	X	437	58.718	28.078	33.661	0.00	0.00
ATOM	6584	CD1	LEU	X	437	59.023	29.692	32.235	0.00	0.00
ATOM	6585	HD11	LEU	X	437	59.908	30.283	32.000	0.00	0.00
ATOM	6586	HD12	LEU	X	437	58.635	29.299	31.295	0.00	0.00
ATOM	6587	HD13	LEU	X	437	58.361	30.486	32.583	0.00	0.00
ATOM	6588	CD2	LEU	X	437	60.679	27.848	32.820	0.00	0.00
ATOM	6589	HD21	LEU	X	437	60.795	26.988	33.480	0.00	0.00
ATOM	6590	HD22	LEU	X	437	60.586	27.555	31.774	0.00	0.00
ATOM	6591	HD23	LEU	X	437	61.601	28.422	32.906	0.00	0.00
ATOM	6592	C	LEU	X	437	57.837	29.498	35.558	0.00	0.00
ATOM	6593	O	LEU	X	437	56.927	29.562	34.738	0.00	0.00
ATOM	6594	N	TRP	X	438	57.882	28.771	36.627	0.00	0.00
ATOM	6595	H	TRP	X	438	58.664	28.989	37.227	0.00	0.00
ATOM	6596	CA	TRP	X	438	56.876	27.705	36.784	0.00	0.00
ATOM	6597	HA	TRP	X	438	56.970	27.226	35.809	0.00	0.00
ATOM	6598	CB	TRP	X	438	57.401	26.657	37.827	0.00	0.00
ATOM	6599	HB2	TRP	X	438	56.699	25.840	37.996	0.00	0.00
ATOM	6600	HB3	TRP	X	438	58.396	26.346	37.507	0.00	0.00
ATOM	6601	CG	TRP	X	438	57.510	27.261	39.192	0.00	0.00
ATOM	6602	CD1	TRP	X	438	58.660	27.692	39.764	0.00	0.00
ATOM	6603	HD1	TRP	X	438	59.597	27.604	39.236	0.00	0.00
ATOM	6604	NE1	TRP	X	438	58.434	28.271	41.013	0.00	0.00
ATOM	6605	HE1	TRP	X	438	59.162	28.574	41.645	0.00	0.00
ATOM	6606	CE2	TRP	X	438	57.078	28.240	41.298	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	56.300	28.662	42.401	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	56.778	29.252	43.169	0.00	0.00
ATOM	6609	CH2	TRP	X	438	54.882	28.475	42.393	0.00	0.00
ATOM	6610	HH2	TRP	X	438	54.242	28.770	43.211	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	54.238	27.802	41.357	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	53.178	27.616	41.446	0.00	0.00
ATOM	6613	CE3	TRP	X	438	55.040	27.336	40.238	0.00	0.00
ATOM	6614	HE3	TRP	X	438	54.628	26.752	39.428	0.00	0.00
ATOM	6615	CD2	TRP	X	438	56.450	27.507	40.234	0.00	0.00
ATOM	6616	C	TRP	X	438	55.376	28.085	36.949	0.00	0.00
ATOM	6617	O	TRP	X	438	54.495	27.388	36.563	0.00	0.00
ATOM	6618	N	MET	X	439	55.237	29.327	37.524	0.00	0.00
ATOM	6619	H	MET	X	439	56.070	29.849	37.758	0.00	0.00

ATOM	6620	CA	MET	X	439	53.957	29.925	37.956	0.00	0.00
ATOM	6621	HA	MET	X	439	53.492	29.203	38.628	0.00	0.00
ATOM	6622	CB	MET	X	439	54.195	31.299	38.646	0.00	0.00
ATOM	6623	HB2	MET	X	439	54.841	31.800	37.925	0.00	0.00
ATOM	6624	HB3	MET	X	439	53.248	31.832	38.737	0.00	0.00
ATOM	6625	CG	MET	X	439	54.749	31.233	40.054	0.00	0.00
ATOM	6626	HG2	MET	X	439	54.037	30.782	40.746	0.00	0.00
ATOM	6627	HG3	MET	X	439	55.585	30.538	39.971	0.00	0.00
ATOM	6628	SD	MET	X	439	55.335	32.811	40.750	0.00	0.00
ATOM	6629	CE	MET	X	439	53.722	33.663	40.782	0.00	0.00
ATOM	6630	HE1	MET	X	439	53.781	34.370	41.609	0.00	0.00
ATOM	6631	HE2	MET	X	439	53.617	34.191	39.834	0.00	0.00
ATOM	6632	HE3	MET	X	439	52.922	32.926	40.846	0.00	0.00
ATOM	6633	C	MET	X	439	52.967	30.155	36.777	0.00	0.00
ATOM	6634	O	MET	X	439	51.774	30.118	37.011	0.00	0.00
ATOM	6635	N	GLY	X	440	53.492	30.415	35.560	0.00	0.00
ATOM	6636	H	GLY	X	440	54.492	30.394	35.425	0.00	0.00
ATOM	6637	CA	GLY	X	440	52.782	30.839	34.361	0.00	0.00
ATOM	6638	HA2	GLY	X	440	53.463	30.675	33.489	0.00	0.00
ATOM	6639	HA3	GLY	X	440	51.930	30.141	34.265	0.00	0.00
ATOM	6640	C	GLY	X	440	52.351	32.288	34.516	0.00	0.00
ATOM	6641	O	GLY	X	440	53.191	33.150	34.453	0.00	0.00
ATOM	6642	N	VAL	X	441	51.042	32.499	34.693	0.00	0.00
ATOM	6643	H	VAL	X	441	50.414	31.708	34.679	0.00	0.00
ATOM	6644	CA	VAL	X	441	50.423	33.805	34.901	0.00	0.00
ATOM	6645	HA	VAL	X	441	51.260	34.503	34.859	0.00	0.00
ATOM	6646	CB	VAL	X	441	49.398	34.178	33.777	0.00	0.00
ATOM	6647	HB	VAL	X	441	48.376	33.846	33.961	0.00	0.00
ATOM	6648	CG1	VAL	X	441	49.239	35.702	33.700	0.00	0.00
ATOM	6649	HG11	VAL	X	441	50.258	36.074	33.601	0.00	0.00
ATOM	6650	HG12	VAL	X	441	48.707	36.000	32.796	0.00	0.00
ATOM	6651	HG13	VAL	X	441	48.643	36.002	34.562	0.00	0.00
ATOM	6652	CG2	VAL	X	441	49.865	33.703	32.392	0.00	0.00
ATOM	6653	HG21	VAL	X	441	50.913	33.967	32.247	0.00	0.00
ATOM	6654	HG22	VAL	X	441	49.582	32.673	32.176	0.00	0.00
ATOM	6655	HG23	VAL	X	441	49.222	34.168	31.645	0.00	0.00
ATOM	6656	C	VAL	X	441	49.844	33.937	36.282	0.00	0.00
ATOM	6657	O	VAL	X	441	48.901	33.177	36.653	0.00	0.00
ATOM	6658	N	PRO	X	442	50.163	34.960	37.067	0.00	0.00
ATOM	6659	CD	PRO	X	442	51.144	36.017	36.792	0.00	0.00
ATOM	6660	HD2	PRO	X	442	50.696	36.866	36.275	0.00	0.00
ATOM	6661	HD3	PRO	X	442	51.996	35.658	36.215	0.00	0.00
ATOM	6662	CG	PRO	X	442	51.516	36.563	38.184	0.00	0.00
ATOM	6663	HG2	PRO	X	442	51.741	37.630	38.194	0.00	0.00
ATOM	6664	HG3	PRO	X	442	52.372	35.982	38.527	0.00	0.00
ATOM	6665	CB	PRO	X	442	50.400	36.112	39.138	0.00	0.00
ATOM	6666	HB2	PRO	X	442	49.782	36.973	39.395	0.00	0.00
ATOM	6667	HB3	PRO	X	442	50.817	35.759	40.081	0.00	0.00
ATOM	6668	CA	PRO	X	442	49.617	35.100	38.343	0.00	0.00
ATOM	6669	HA	PRO	X	442	49.708	34.106	38.780	0.00	0.00
ATOM	6670	C	PRO	X	442	48.097	35.484	38.386	0.00	0.00
ATOM	6671	O	PRO	X	442	47.722	36.481	37.818	0.00	0.00
ATOM	6672	N	HIP	X	443	47.487	34.986	39.426	0.00	0.00
ATOM	6673	H	HIP	X	443	47.890	34.209	39.928	0.00	0.00
ATOM	6674	CA	HIP	X	443	46.383	35.643	40.096	0.00	0.00
ATOM	6675	HA	HIP	X	443	45.475	35.380	39.555	0.00	0.00
ATOM	6676	CB	HIP	X	443	46.429	35.103	41.535	0.00	0.00
ATOM	6677	HB2	HIP	X	443	46.134	34.054	41.510	0.00	0.00
ATOM	6678	HB3	HIP	X	443	47.439	35.332	41.872	0.00	0.00
ATOM	6679	CG	HIP	X	443	45.442	35.876	42.318	0.00	0.00
ATOM	6680	ND1	HIP	X	443	44.049	35.705	42.392	0.00	0.00
ATOM	6681	HD1	HIP	X	443	43.636	35.022	41.773	0.00	0.00
ATOM	6682	CE1	HIP	X	443	43.709	36.557	43.387	0.00	0.00
ATOM	6683	HE1	HIP	X	443	42.703	36.846	43.655	0.00	0.00
ATOM	6684	NE2	HIP	X	443	44.781	37.173	43.972	0.00	0.00
ATOM	6685	HE2	HIP	X	443	44.876	37.809	44.751	0.00	0.00
ATOM	6686	CD2	HIP	X	443	45.901	36.678	43.299	0.00	0.00
ATOM	6687	HD2	HIP	X	443	46.901	37.013	43.534	0.00	0.00
ATOM	6688	C	HIP	X	443	46.251	37.194	40.011	0.00	0.00
ATOM	6689	O	HIP	X	443	47.069	37.870	40.637	0.00	0.00

ATOM	6690	N	GLY	X	444	45.257	37.686	39.228	0.00	0.00
ATOM	6691	H	GLY	X	444	44.611	37.058	38.773	0.00	0.00
ATOM	6692	CA	GLY	X	444	44.809	39.066	39.066	0.00	0.00
ATOM	6693	HA2	GLY	X	444	44.034	39.165	38.391	0.00	0.00
ATOM	6694	HA3	GLY	X	444	44.472	39.473	40.016	0.00	0.00
ATOM	6695	C	GLY	X	444	45.865	40.004	38.571	0.00	0.00
ATOM	6696	O	GLY	X	444	45.878	41.186	38.768	0.00	0.00
ATOM	6697	N	TYR	X	445	46.821	39.506	37.804	0.00	0.00
ATOM	6698	H	TYR	X	445	46.771	38.530	37.551	0.00	0.00
ATOM	6699	CA	TYR	X	445	47.971	40.256	37.263	0.00	0.00
ATOM	6700	HA	TYR	X	445	48.086	41.106	37.934	0.00	0.00
ATOM	6701	CB	TYR	X	445	49.276	39.387	37.313	0.00	0.00
ATOM	6702	HB2	TYR	X	445	49.389	38.991	38.322	0.00	0.00
ATOM	6703	HB3	TYR	X	445	49.109	38.570	36.611	0.00	0.00
ATOM	6704	CG	TYR	X	445	50.540	40.129	36.860	0.00	0.00
ATOM	6705	CD1	TYR	X	445	51.131	39.848	35.701	0.00	0.00
ATOM	6706	HD1	TYR	X	445	50.778	39.112	34.994	0.00	0.00
ATOM	6707	CE1	TYR	X	445	52.221	40.602	35.231	0.00	0.00
ATOM	6708	HE1	TYR	X	445	52.503	40.435	34.202	0.00	0.00
ATOM	6709	CZ	TYR	X	445	52.752	41.588	36.037	0.00	0.00
ATOM	6710	OH	TYR	X	445	53.839	42.235	35.587	0.00	0.00
ATOM	6711	HH	TYR	X	445	54.103	42.003	34.694	0.00	0.00
ATOM	6712	CE2	TYR	X	445	52.096	41.974	37.182	0.00	0.00
ATOM	6713	HE2	TYR	X	445	52.538	42.768	37.767	0.00	0.00
ATOM	6714	CD2	TYR	X	445	50.991	41.283	37.566	0.00	0.00
ATOM	6715	HD2	TYR	X	445	50.428	41.622	38.424	0.00	0.00
ATOM	6716	C	TYR	X	445	47.688	40.734	35.832	0.00	0.00
ATOM	6717	O	TYR	X	445	48.558	41.273	35.180	0.00	0.00
ATOM	6718	N	GLU	X	446	46.510	40.563	35.242	0.00	0.00
ATOM	6719	H	GLU	X	446	45.769	40.352	35.896	0.00	0.00
ATOM	6720	CA	GLU	X	446	46.147	40.867	33.864	0.00	0.00
ATOM	6721	HA	GLU	X	446	47.063	40.667	33.309	0.00	0.00
ATOM	6722	CB	GLU	X	446	44.956	39.983	33.322	0.00	0.00
ATOM	6723	HB2	GLU	X	446	44.983	40.058	32.235	0.00	0.00
ATOM	6724	HB3	GLU	X	446	45.181	38.978	33.680	0.00	0.00
ATOM	6725	CG	GLU	X	446	43.570	40.373	33.654	0.00	0.00
ATOM	6726	HG2	GLU	X	446	43.369	41.418	33.415	0.00	0.00
ATOM	6727	HG3	GLU	X	446	42.893	39.748	33.072	0.00	0.00
ATOM	6728	CD	GLU	X	446	43.114	40.018	35.082	0.00	0.00
ATOM	6729	OE1	GLU	X	446	43.935	40.122	36.021	0.00	0.00
ATOM	6730	OE2	GLU	X	446	41.898	39.788	35.224	0.00	0.00
ATOM	6731	C	GLU	X	446	45.849	42.360	33.726	0.00	0.00
ATOM	6732	O	GLU	X	446	45.796	42.961	32.687	0.00	0.00
ATOM	6733	N	ILE	X	447	45.553	43.003	34.877	0.00	0.00
ATOM	6734	H	ILE	X	447	45.632	42.409	35.690	0.00	0.00
ATOM	6735	CA	ILE	X	447	44.761	44.284	34.879	0.00	0.00
ATOM	6736	HA	ILE	X	447	43.849	44.076	34.319	0.00	0.00
ATOM	6737	CB	ILE	X	447	44.282	44.593	36.332	0.00	0.00
ATOM	6738	HB	ILE	X	447	43.711	45.517	36.422	0.00	0.00
ATOM	6739	CG2	ILE	X	447	43.368	43.462	36.856	0.00	0.00
ATOM	6740	HG21	ILE	X	447	42.957	43.751	37.824	0.00	0.00
ATOM	6741	HG22	ILE	X	447	42.588	43.451	36.095	0.00	0.00
ATOM	6742	HG23	ILE	X	447	43.946	42.538	36.880	0.00	0.00
ATOM	6743	CG1	ILE	X	447	45.487	44.783	37.181	0.00	0.00
ATOM	6744	HG12	ILE	X	447	46.041	43.857	37.335	0.00	0.00
ATOM	6745	HG13	ILE	X	447	46.155	45.500	36.704	0.00	0.00
ATOM	6746	CD1	ILE	X	447	45.214	45.352	38.556	0.00	0.00
ATOM	6747	HD11	ILE	X	447	44.381	46.055	38.569	0.00	0.00
ATOM	6748	HD12	ILE	X	447	45.005	44.479	39.174	0.00	0.00
ATOM	6749	HD13	ILE	X	447	46.131	45.783	38.959	0.00	0.00
ATOM	6750	C	ILE	X	447	45.453	45.521	34.171	0.00	0.00
ATOM	6751	O	ILE	X	447	44.781	46.482	33.788	0.00	0.00
ATOM	6752	N	GLU	X	448	46.780	45.399	33.900	0.00	0.00
ATOM	6753	H	GLU	X	448	47.289	44.570	34.173	0.00	0.00
ATOM	6754	CA	GLU	X	448	47.473	46.448	33.080	0.00	0.00
ATOM	6755	HA	GLU	X	448	47.383	47.400	33.603	0.00	0.00
ATOM	6756	CB	GLU	X	448	49.010	46.234	33.158	0.00	0.00
ATOM	6757	HB2	GLU	X	448	49.486	47.066	32.640	0.00	0.00
ATOM	6758	HB3	GLU	X	448	49.243	46.241	34.223	0.00	0.00
ATOM	6759	CG	GLU	X	448	49.634	44.904	32.620	0.00	0.00

ATOM	6760	HG2	GLU	X	448	49.038	44.069	32.986	0.00	0.00
ATOM	6761	HG3	GLU	X	448	49.445	44.748	31.558	0.00	0.00
ATOM	6762	CD	GLU	X	448	51.091	44.733	33.030	0.00	0.00
ATOM	6763	OE1	GLU	X	448	51.604	43.594	33.200	0.00	0.00
ATOM	6764	OE2	GLU	X	448	51.801	45.800	33.145	0.00	0.00
ATOM	6765	C	GLU	X	448	46.926	46.473	31.677	0.00	0.00
ATOM	6766	O	GLU	X	448	46.981	47.517	31.009	0.00	0.00
ATOM	6767	N	PHE	X	449	46.247	45.442	31.217	0.00	0.00
ATOM	6768	H	PHE	X	449	46.054	44.636	31.794	0.00	0.00
ATOM	6769	CA	PHE	X	449	45.626	45.427	29.845	0.00	0.00
ATOM	6770	HA	PHE	X	449	46.110	46.068	29.108	0.00	0.00
ATOM	6771	CB	PHE	X	449	45.657	44.019	29.325	0.00	0.00
ATOM	6772	HB2	PHE	X	449	45.189	43.342	30.038	0.00	0.00
ATOM	6773	HB3	PHE	X	449	45.172	43.901	28.356	0.00	0.00
ATOM	6774	CG	PHE	X	449	47.096	43.528	29.095	0.00	0.00
ATOM	6775	CD1	PHE	X	449	47.689	42.470	29.839	0.00	0.00
ATOM	6776	HD1	PHE	X	449	47.101	41.948	30.579	0.00	0.00
ATOM	6777	CE1	PHE	X	449	48.894	41.944	29.480	0.00	0.00
ATOM	6778	HE1	PHE	X	449	49.306	41.112	30.033	0.00	0.00
ATOM	6779	CZ	PHE	X	449	49.649	42.415	28.442	0.00	0.00
ATOM	6780	HZ	PHE	X	449	50.607	41.951	28.262	0.00	0.00
ATOM	6781	CE2	PHE	X	449	49.135	43.499	27.761	0.00	0.00
ATOM	6782	HE2	PHE	X	449	49.633	43.919	26.899	0.00	0.00
ATOM	6783	CD2	PHE	X	449	47.921	44.050	28.094	0.00	0.00
ATOM	6784	HD2	PHE	X	449	47.445	44.849	27.545	0.00	0.00
ATOM	6785	C	PHE	X	449	44.216	46.069	29.949	0.00	0.00
ATOM	6786	O	PHE	X	449	43.698	46.611	28.991	0.00	0.00
ATOM	6787	N	ILE	X	450	43.576	46.080	31.150	0.00	0.00
ATOM	6788	H	ILE	X	450	44.002	45.711	31.988	0.00	0.00
ATOM	6789	CA	ILE	X	450	42.360	46.896	31.466	0.00	0.00
ATOM	6790	HA	ILE	X	450	41.766	46.809	30.557	0.00	0.00
ATOM	6791	CB	ILE	X	450	41.685	46.259	32.694	0.00	0.00
ATOM	6792	HB	ILE	X	450	42.185	46.428	33.648	0.00	0.00
ATOM	6793	CG2	ILE	X	450	40.367	47.057	32.949	0.00	0.00
ATOM	6794	HG21	ILE	X	450	39.777	47.140	32.037	0.00	0.00
ATOM	6795	HG22	ILE	X	450	39.668	46.601	33.649	0.00	0.00
ATOM	6796	HG23	ILE	X	450	40.620	48.071	33.259	0.00	0.00
ATOM	6797	CG1	ILE	X	450	41.374	44.740	32.616	0.00	0.00
ATOM	6798	HG12	ILE	X	450	42.315	44.217	32.788	0.00	0.00
ATOM	6799	HG13	ILE	X	450	40.744	44.400	33.438	0.00	0.00
ATOM	6800	CD1	ILE	X	450	40.799	44.211	31.343	0.00	0.00
ATOM	6801	HD11	ILE	X	450	40.489	43.185	31.544	0.00	0.00
ATOM	6802	HD12	ILE	X	450	39.872	44.724	31.088	0.00	0.00
ATOM	6803	HD13	ILE	X	450	41.605	44.274	30.612	0.00	0.00
ATOM	6804	C	ILE	X	450	42.649	48.368	31.528	0.00	0.00
ATOM	6805	O	ILE	X	450	42.107	49.071	30.704	0.00	0.00
ATOM	6806	N	PHE	X	451	43.544	48.839	32.443	0.00	0.00
ATOM	6807	H	PHE	X	451	43.913	48.267	33.189	0.00	0.00
ATOM	6808	CA	PHE	X	451	44.007	50.250	32.446	0.00	0.00
ATOM	6809	HA	PHE	X	451	43.184	50.957	32.549	0.00	0.00
ATOM	6810	CB	PHE	X	451	44.879	50.435	33.629	0.00	0.00
ATOM	6811	HB2	PHE	X	451	45.723	49.760	33.486	0.00	0.00
ATOM	6812	HB3	PHE	X	451	45.279	51.443	33.731	0.00	0.00
ATOM	6813	CG	PHE	X	451	44.135	50.181	34.903	0.00	0.00
ATOM	6814	CD1	PHE	X	451	44.519	49.179	35.759	0.00	0.00
ATOM	6815	HD1	PHE	X	451	45.310	48.488	35.509	0.00	0.00
ATOM	6816	CE1	PHE	X	451	43.882	49.029	37.044	0.00	0.00
ATOM	6817	HE1	PHE	X	451	44.160	48.244	37.731	0.00	0.00
ATOM	6818	CZ	PHE	X	451	42.861	49.838	37.452	0.00	0.00
ATOM	6819	HZ	PHE	X	451	42.456	49.788	38.452	0.00	0.00
ATOM	6820	CE2	PHE	X	451	42.399	50.805	36.535	0.00	0.00
ATOM	6821	HE2	PHE	X	451	41.615	51.468	36.870	0.00	0.00
ATOM	6822	CD2	PHE	X	451	43.024	51.018	35.289	0.00	0.00
ATOM	6823	HD2	PHE	X	451	42.755	51.804	34.599	0.00	0.00
ATOM	6824	C	PHE	X	451	44.662	50.797	31.141	0.00	0.00
ATOM	6825	O	PHE	X	451	44.679	51.981	30.910	0.00	0.00
ATOM	6826	N	GLY	X	452	45.250	49.933	30.365	0.00	0.00
ATOM	6827	H	GLY	X	452	45.257	48.963	30.644	0.00	0.00
ATOM	6828	CA	GLY	X	452	46.006	50.303	29.129	0.00	0.00
ATOM	6829	HA2	GLY	X	452	45.942	49.297	28.648	0.00	0.00

ATOM	6830	HA3	GLY	X	452	45.460	50.990	28.509	0.00	0.00
ATOM	6831	C	GLY	X	452	47.461	50.666	29.279	0.00	0.00
ATOM	6832	O	GLY	X	452	47.993	51.494	28.464	0.00	0.00
ATOM	6833	N	ILE	X	453	48.224	50.125	30.273	0.00	0.00
ATOM	6834	H	ILE	X	453	47.813	49.377	30.813	0.00	0.00
ATOM	6835	CA	ILE	X	453	49.590	50.633	30.601	0.00	0.00
ATOM	6836	HA	ILE	X	453	49.579	51.720	30.679	0.00	0.00
ATOM	6837	CB	ILE	X	453	50.123	50.064	31.893	0.00	0.00
ATOM	6838	HB	ILE	X	453	50.257	48.988	31.778	0.00	0.00
ATOM	6839	CG2	ILE	X	453	51.512	50.610	32.302	0.00	0.00
ATOM	6840	HG21	ILE	X	453	51.671	50.134	33.270	0.00	0.00
ATOM	6841	HG22	ILE	X	453	52.281	50.291	31.599	0.00	0.00
ATOM	6842	HG23	ILE	X	453	51.574	51.671	32.542	0.00	0.00
ATOM	6843	CG1	ILE	X	453	49.219	50.370	33.085	0.00	0.00
ATOM	6844	HG12	ILE	X	453	48.217	50.027	32.827	0.00	0.00
ATOM	6845	HG13	ILE	X	453	49.540	49.803	33.959	0.00	0.00
ATOM	6846	CD1	ILE	X	453	49.152	51.812	33.627	0.00	0.00
ATOM	6847	HD11	ILE	X	453	48.944	52.618	32.923	0.00	0.00
ATOM	6848	HD12	ILE	X	453	48.411	51.808	34.426	0.00	0.00
ATOM	6849	HD13	ILE	X	453	50.061	52.134	34.135	0.00	0.00
ATOM	6850	C	ILE	X	453	50.575	50.375	29.417	0.00	0.00
ATOM	6851	O	ILE	X	453	51.516	51.216	29.264	0.00	0.00
ATOM	6852	N	PRO	X	454	50.294	49.373	28.500	0.00	0.00
ATOM	6853	CD	PRO	X	454	49.435	48.187	28.671	0.00	0.00
ATOM	6854	HD2	PRO	X	454	48.381	48.334	28.436	0.00	0.00
ATOM	6855	HD3	PRO	X	454	49.476	47.864	29.711	0.00	0.00
ATOM	6856	CG	PRO	X	454	50.074	47.162	27.749	0.00	0.00
ATOM	6857	HG2	PRO	X	454	49.445	46.294	27.552	0.00	0.00
ATOM	6858	HG3	PRO	X	454	50.896	46.677	28.275	0.00	0.00
ATOM	6859	CB	PRO	X	454	50.513	48.020	26.612	0.00	0.00
ATOM	6860	HB2	PRO	X	454	49.599	48.241	26.061	0.00	0.00
ATOM	6861	HB3	PRO	X	454	51.207	47.529	25.930	0.00	0.00
ATOM	6862	CA	PRO	X	454	51.104	49.235	27.326	0.00	0.00
ATOM	6863	HA	PRO	X	454	52.064	48.909	27.727	0.00	0.00
ATOM	6864	C	PRO	X	454	51.276	50.422	26.348	0.00	0.00
ATOM	6865	O	PRO	X	454	52.184	50.419	25.506	0.00	0.00
ATOM	6866	N	LEU	X	455	50.482	51.481	26.534	0.00	0.00
ATOM	6867	H	LEU	X	455	49.922	51.576	27.369	0.00	0.00
ATOM	6868	CA	LEU	X	455	50.512	52.726	25.648	0.00	0.00
ATOM	6869	HA	LEU	X	455	50.909	52.503	24.658	0.00	0.00
ATOM	6870	CB	LEU	X	455	49.059	53.176	25.571	0.00	0.00
ATOM	6871	HB2	LEU	X	455	48.706	53.290	26.596	0.00	0.00
ATOM	6872	HB3	LEU	X	455	49.051	54.160	25.102	0.00	0.00
ATOM	6873	CG	LEU	X	455	48.144	52.207	24.784	0.00	0.00
ATOM	6874	HG	LEU	X	455	48.149	51.203	25.208	0.00	0.00
ATOM	6875	CD1	LEU	X	455	46.678	52.628	25.101	0.00	0.00
ATOM	6876	HD11	LEU	X	455	46.390	52.307	26.102	0.00	0.00
ATOM	6877	HD12	LEU	X	455	46.569	53.697	24.918	0.00	0.00
ATOM	6878	HD13	LEU	X	455	45.945	52.111	24.482	0.00	0.00
ATOM	6879	CD2	LEU	X	455	48.254	52.189	23.222	0.00	0.00
ATOM	6880	HD21	LEU	X	455	49.309	52.101	22.963	0.00	0.00
ATOM	6881	HD22	LEU	X	455	47.793	51.319	22.755	0.00	0.00
ATOM	6882	HD23	LEU	X	455	47.894	53.076	22.701	0.00	0.00
ATOM	6883	C	LEU	X	455	51.510	53.775	26.133	0.00	0.00
ATOM	6884	O	LEU	X	455	51.745	54.794	25.420	0.00	0.00
ATOM	6885	N	ASP	X	456	52.208	53.572	27.260	0.00	0.00
ATOM	6886	H	ASP	X	456	51.929	52.769	27.805	0.00	0.00
ATOM	6887	CA	ASP	X	456	53.275	54.463	27.778	0.00	0.00
ATOM	6888	HA	ASP	X	456	52.913	55.489	27.708	0.00	0.00
ATOM	6889	CB	ASP	X	456	53.537	54.085	29.209	0.00	0.00
ATOM	6890	HB2	ASP	X	456	52.643	53.782	29.754	0.00	0.00
ATOM	6891	HB3	ASP	X	456	54.215	53.232	29.204	0.00	0.00
ATOM	6892	CG	ASP	X	456	54.222	55.249	29.875	0.00	0.00
ATOM	6893	OD1	ASP	X	456	55.474	55.336	29.673	0.00	0.00
ATOM	6894	OD2	ASP	X	456	53.561	55.987	30.609	0.00	0.00
ATOM	6895	C	ASP	X	456	54.551	54.286	26.978	0.00	0.00
ATOM	6896	O	ASP	X	456	55.022	53.201	26.622	0.00	0.00
ATOM	6897	N	PRO	X	457	55.223	55.360	26.542	0.00	0.00
ATOM	6898	CD	PRO	X	457	54.687	56.713	26.571	0.00	0.00
ATOM	6899	HD2	PRO	X	457	54.714	56.995	27.623	0.00	0.00

ATOM	6900	HD3	PRO	X	457	53.758	56.742	26.001	0.00	0.00
ATOM	6901	CG	PRO	X	457	55.824	57.577	25.938	0.00	0.00
ATOM	6902	HG2	PRO	X	457	56.488	57.915	26.733	0.00	0.00
ATOM	6903	HG3	PRO	X	457	55.445	58.421	25.361	0.00	0.00
ATOM	6904	CB	PRO	X	457	56.639	56.630	25.061	0.00	0.00
ATOM	6905	HB2	PRO	X	457	57.649	57.015	24.916	0.00	0.00
ATOM	6906	HB3	PRO	X	457	56.180	56.618	24.073	0.00	0.00
ATOM	6907	CA	PRO	X	457	56.462	55.237	25.772	0.00	0.00
ATOM	6908	HA	PRO	X	457	56.417	54.469	25.001	0.00	0.00
ATOM	6909	C	PRO	X	457	57.651	54.838	26.687	0.00	0.00
ATOM	6910	O	PRO	X	457	58.549	54.148	26.231	0.00	0.00
ATOM	6911	N	SER	X	458	57.705	55.232	28.026	0.00	0.00
ATOM	6912	H	SER	X	458	56.816	55.502	28.423	0.00	0.00
ATOM	6913	CA	SER	X	458	58.788	55.084	29.012	0.00	0.00
ATOM	6914	HA	SER	X	458	59.742	55.373	28.572	0.00	0.00
ATOM	6915	CB	SER	X	458	58.522	55.947	30.251	0.00	0.00
ATOM	6916	HB2	SER	X	458	59.490	56.098	30.728	0.00	0.00
ATOM	6917	HB3	SER	X	458	58.158	56.962	30.093	0.00	0.00
ATOM	6918	OG	SER	X	458	57.621	55.341	31.213	0.00	0.00
ATOM	6919	HG	SER	X	458	56.765	55.371	30.780	0.00	0.00
ATOM	6920	C	SER	X	458	58.855	53.623	29.436	0.00	0.00
ATOM	6921	O	SER	X	458	59.933	53.199	29.811	0.00	0.00
ATOM	6922	N	ARG	X	459	57.713	52.921	29.397	0.00	0.00
ATOM	6923	H	ARG	X	459	56.951	53.374	28.914	0.00	0.00
ATOM	6924	CA	ARG	X	459	57.603	51.517	29.974	0.00	0.00
ATOM	6925	HA	ARG	X	459	58.452	51.381	30.644	0.00	0.00
ATOM	6926	CB	ARG	X	459	56.379	51.283	30.890	0.00	0.00
ATOM	6927	HB2	ARG	X	459	55.486	51.335	30.266	0.00	0.00
ATOM	6928	HB3	ARG	X	459	56.444	50.268	31.282	0.00	0.00
ATOM	6929	CG	ARG	X	459	56.334	52.348	32.116	0.00	0.00
ATOM	6930	HG2	ARG	X	459	57.347	52.629	32.406	0.00	0.00
ATOM	6931	HG3	ARG	X	459	55.880	53.257	31.722	0.00	0.00
ATOM	6932	CD	ARG	X	459	55.593	51.711	33.287	0.00	0.00
ATOM	6933	HD2	ARG	X	459	54.911	50.914	32.988	0.00	0.00
ATOM	6934	HD3	ARG	X	459	56.442	51.285	33.821	0.00	0.00
ATOM	6935	NE	ARG	X	459	54.988	52.642	34.232	0.00	0.00
ATOM	6936	HE	ARG	X	459	54.751	53.505	33.763	0.00	0.00
ATOM	6937	CZ	ARG	X	459	54.717	52.514	35.476	0.00	0.00
ATOM	6938	NH1	ARG	X	459	55.087	51.568	36.322	0.00	0.00
ATOM	6939	HH11	ARG	X	459	55.680	50.830	35.969	0.00	0.00
ATOM	6940	HH12	ARG	X	459	54.971	51.751	37.308	0.00	0.00
ATOM	6941	NH2	ARG	X	459	53.922	53.410	36.108	0.00	0.00
ATOM	6942	HH21	ARG	X	459	53.496	54.245	35.733	0.00	0.00
ATOM	6943	HH22	ARG	X	459	53.774	53.154	37.074	0.00	0.00
ATOM	6944	C	ARG	X	459	57.764	50.429	28.839	0.00	0.00
ATOM	6945	O	ARG	X	459	57.281	50.574	27.709	0.00	0.00
ATOM	6946	N	ASN	X	460	58.485	49.390	29.200	0.00	0.00
ATOM	6947	H	ASN	X	460	58.838	49.378	30.146	0.00	0.00
ATOM	6948	CA	ASN	X	460	58.803	48.275	28.345	0.00	0.00
ATOM	6949	HA	ASN	X	460	59.095	48.696	27.383	0.00	0.00
ATOM	6950	CB	ASN	X	460	60.024	47.527	28.930	0.00	0.00
ATOM	6951	HB2	ASN	X	460	60.731	48.331	29.136	0.00	0.00
ATOM	6952	HB3	ASN	X	460	59.853	47.114	29.924	0.00	0.00
ATOM	6953	CG	ASN	X	460	60.644	46.389	27.980	0.00	0.00
ATOM	6954	OD1	ASN	X	460	59.985	45.849	27.140	0.00	0.00
ATOM	6955	ND2	ASN	X	460	61.879	45.960	28.132	0.00	0.00
ATOM	6956	HD21	ASN	X	460	62.296	45.371	27.425	0.00	0.00
ATOM	6957	HD22	ASN	X	460	62.513	46.588	28.605	0.00	0.00
ATOM	6958	C	ASN	X	460	57.541	47.385	28.081	0.00	0.00
ATOM	6959	O	ASN	X	460	57.039	46.746	29.053	0.00	0.00
ATOM	6960	N	TYR	X	461	57.160	47.299	26.827	0.00	0.00
ATOM	6961	H	TYR	X	461	57.801	47.717	26.168	0.00	0.00
ATOM	6962	CA	TYR	X	461	56.157	46.439	26.297	0.00	0.00
ATOM	6963	HA	TYR	X	461	56.213	45.486	26.823	0.00	0.00
ATOM	6964	CB	TYR	X	461	54.841	47.168	26.358	0.00	0.00
ATOM	6965	HB2	TYR	X	461	55.020	48.190	26.025	0.00	0.00
ATOM	6966	HB3	TYR	X	461	54.171	46.650	25.672	0.00	0.00
ATOM	6967	CG	TYR	X	461	54.236	47.263	27.729	0.00	0.00
ATOM	6968	CD1	TYR	X	461	54.293	48.500	28.336	0.00	0.00
ATOM	6969	HD1	TYR	X	461	54.713	49.296	27.739	0.00	0.00

ATOM	6970	CE1	TYR	X	461	53.655	48.806	29.574	0.00	0.00
ATOM	6971	HE1	TYR	X	461	53.664	49.788	30.022	0.00	0.00
ATOM	6972	CZ	TYR	X	461	53.021	47.651	30.202	0.00	0.00
ATOM	6973	OH	TYR	X	461	52.362	47.801	31.381	0.00	0.00
ATOM	6974	HH	TYR	X	461	52.018	47.029	31.836	0.00	0.00
ATOM	6975	CE2	TYR	X	461	52.995	46.354	29.614	0.00	0.00
ATOM	6976	HE2	TYR	X	461	52.694	45.406	30.037	0.00	0.00
ATOM	6977	CD2	TYR	X	461	53.587	46.204	28.362	0.00	0.00
ATOM	6978	HD2	TYR	X	461	53.665	45.219	27.928	0.00	0.00
ATOM	6979	C	TYR	X	461	56.415	46.107	24.880	0.00	0.00
ATOM	6980	O	TYR	X	461	57.164	46.812	24.170	0.00	0.00
ATOM	6981	N	THR	X	462	55.910	44.989	24.358	0.00	0.00
ATOM	6982	H	THR	X	462	55.164	44.499	24.831	0.00	0.00
ATOM	6983	CA	THR	X	462	56.017	44.678	22.936	0.00	0.00
ATOM	6984	HA	THR	X	462	56.939	45.157	22.605	0.00	0.00
ATOM	6985	CB	THR	X	462	55.994	43.181	22.541	0.00	0.00
ATOM	6986	HB	THR	X	462	56.087	43.049	21.463	0.00	0.00
ATOM	6987	CG2	THR	X	462	57.152	42.378	23.087	0.00	0.00
ATOM	6988	HG21	THR	X	462	56.984	42.039	24.109	0.00	0.00
ATOM	6989	HG22	THR	X	462	57.287	41.493	22.465	0.00	0.00
ATOM	6990	HG23	THR	X	462	58.039	43.011	23.108	0.00	0.00
ATOM	6991	OG1	THR	X	462	54.815	42.555	22.965	0.00	0.00
ATOM	6992	HG1	THR	X	462	54.868	42.510	23.923	0.00	0.00
ATOM	6993	C	THR	X	462	54.921	45.457	22.212	0.00	0.00
ATOM	6994	O	THR	X	462	53.896	45.892	22.712	0.00	0.00
ATOM	6995	N	ALA	X	463	55.157	45.511	20.884	0.00	0.00
ATOM	6996	H	ALA	X	463	56.009	45.102	20.527	0.00	0.00
ATOM	6997	CA	ALA	X	463	54.338	46.085	19.900	0.00	0.00
ATOM	6998	HA	ALA	X	463	54.175	47.134	20.146	0.00	0.00
ATOM	6999	CB	ALA	X	463	55.041	45.991	18.602	0.00	0.00
ATOM	7000	HB1	ALA	X	463	54.280	45.879	17.830	0.00	0.00
ATOM	7001	HB2	ALA	X	463	55.701	46.835	18.403	0.00	0.00
ATOM	7002	HB3	ALA	X	463	55.655	45.090	18.582	0.00	0.00
ATOM	7003	C	ALA	X	463	52.966	45.374	19.918	0.00	0.00
ATOM	7004	O	ALA	X	463	51.931	46.064	19.821	0.00	0.00
ATOM	7005	N	GLU	X	464	52.963	44.008	19.984	0.00	0.00
ATOM	7006	H	GLU	X	464	53.911	43.673	19.895	0.00	0.00
ATOM	7007	CA	GLU	X	464	51.781	43.191	19.862	0.00	0.00
ATOM	7008	HA	GLU	X	464	51.071	43.630	19.161	0.00	0.00
ATOM	7009	CB	GLU	X	464	52.121	41.721	19.560	0.00	0.00
ATOM	7010	HB2	GLU	X	464	52.921	41.308	20.174	0.00	0.00
ATOM	7011	HB3	GLU	X	464	51.243	41.098	19.730	0.00	0.00
ATOM	7012	CG	GLU	X	464	52.579	41.641	18.087	0.00	0.00
ATOM	7013	HG2	GLU	X	464	51.667	41.947	17.575	0.00	0.00
ATOM	7014	HG3	GLU	X	464	53.358	42.360	17.833	0.00	0.00
ATOM	7015	CD	GLU	X	464	53.020	40.280	17.888	0.00	0.00
ATOM	7016	OE1	GLU	X	464	52.205	39.499	17.348	0.00	0.00
ATOM	7017	OE2	GLU	X	464	54.193	39.863	18.114	0.00	0.00
ATOM	7018	C	GLU	X	464	50.937	43.330	21.178	0.00	0.00
ATOM	7019	O	GLU	X	464	49.688	43.288	21.154	0.00	0.00
ATOM	7020	N	GLU	X	465	51.636	43.653	22.327	0.00	0.00
ATOM	7021	H	GLU	X	465	52.637	43.529	22.289	0.00	0.00
ATOM	7022	CA	GLU	X	465	51.023	43.755	23.596	0.00	0.00
ATOM	7023	HA	GLU	X	465	50.336	42.915	23.702	0.00	0.00
ATOM	7024	CB	GLU	X	465	52.129	43.581	24.800	0.00	0.00
ATOM	7025	HB2	GLU	X	465	53.053	44.123	24.600	0.00	0.00
ATOM	7026	HB3	GLU	X	465	51.666	43.965	25.709	0.00	0.00
ATOM	7027	CG	GLU	X	465	52.439	42.119	25.184	0.00	0.00
ATOM	7028	HG2	GLU	X	465	51.627	41.659	25.748	0.00	0.00
ATOM	7029	HG3	GLU	X	465	52.701	41.463	24.354	0.00	0.00
ATOM	7030	CD	GLU	X	465	53.669	41.973	25.978	0.00	0.00
ATOM	7031	OE1	GLU	X	465	54.685	42.654	25.604	0.00	0.00
ATOM	7032	OE2	GLU	X	465	53.823	41.202	26.939	0.00	0.00
ATOM	7033	C	GLU	X	465	50.159	44.998	23.674	0.00	0.00
ATOM	7034	O	GLU	X	465	49.039	44.938	24.170	0.00	0.00
ATOM	7035	N	LYS	X	466	50.585	46.104	23.221	0.00	0.00
ATOM	7036	H	LYS	X	466	51.587	46.132	23.101	0.00	0.00
ATOM	7037	CA	LYS	X	466	49.817	47.378	23.190	0.00	0.00
ATOM	7038	HA	LYS	X	466	49.471	47.574	24.205	0.00	0.00
ATOM	7039	CB	LYS	X	466	50.791	48.534	22.948	0.00	0.00

ATOM	7040	HB2	LYS	X	466	50.420	49.556	23.028	0.00	0.00
ATOM	7041	HB3	LYS	X	466	51.448	48.633	23.812	0.00	0.00
ATOM	7042	CG	LYS	X	466	51.608	48.535	21.614	0.00	0.00
ATOM	7043	HG2	LYS	X	466	52.371	47.772	21.768	0.00	0.00
ATOM	7044	HG3	LYS	X	466	50.896	48.323	20.816	0.00	0.00
ATOM	7045	CD	LYS	X	466	52.227	49.918	21.332	0.00	0.00
ATOM	7046	HD2	LYS	X	466	51.451	50.578	20.944	0.00	0.00
ATOM	7047	HD3	LYS	X	466	52.506	50.327	22.303	0.00	0.00
ATOM	7048	CE	LYS	X	466	53.466	49.720	20.476	0.00	0.00
ATOM	7049	HE2	LYS	X	466	53.930	48.806	20.846	0.00	0.00
ATOM	7050	HE3	LYS	X	466	53.164	49.475	19.457	0.00	0.00
ATOM	7051	NZ	LYS	X	466	54.347	50.905	20.500	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	54.122	51.498	19.713	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	54.268	51.386	21.384	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	55.298	50.647	20.280	0.00	0.00
ATOM	7055	C	LYS	X	466	48.636	47.348	22.305	0.00	0.00
ATOM	7056	O	LYS	X	466	47.631	47.922	22.632	0.00	0.00
ATOM	7057	N	ILE	X	467	48.629	46.536	21.186	0.00	0.00
ATOM	7058	H	ILE	X	467	49.427	45.930	21.062	0.00	0.00
ATOM	7059	CA	ILE	X	467	47.337	46.177	20.433	0.00	0.00
ATOM	7060	HA	ILE	X	467	46.887	47.160	20.295	0.00	0.00
ATOM	7061	CB	ILE	X	467	47.679	45.507	19.104	0.00	0.00
ATOM	7062	HB	ILE	X	467	48.315	44.665	19.376	0.00	0.00
ATOM	7063	CG2	ILE	X	467	46.401	44.905	18.447	0.00	0.00
ATOM	7064	HG21	ILE	X	467	45.634	45.646	18.225	0.00	0.00
ATOM	7065	HG22	ILE	X	467	46.728	44.267	17.625	0.00	0.00
ATOM	7066	HG23	ILE	X	467	45.959	44.221	19.171	0.00	0.00
ATOM	7067	CG1	ILE	X	467	48.535	46.432	18.192	0.00	0.00
ATOM	7068	HG12	ILE	X	467	48.115	47.425	18.032	0.00	0.00
ATOM	7069	HG13	ILE	X	467	49.473	46.601	18.721	0.00	0.00
ATOM	7070	CD1	ILE	X	467	48.938	45.884	16.837	0.00	0.00
ATOM	7071	HD11	ILE	X	467	49.352	44.886	16.979	0.00	0.00
ATOM	7072	HD12	ILE	X	467	48.087	45.756	16.168	0.00	0.00
ATOM	7073	HD13	ILE	X	467	49.698	46.531	16.399	0.00	0.00
ATOM	7074	C	ILE	X	467	46.429	45.385	21.327	0.00	0.00
ATOM	7075	O	ILE	X	467	45.269	45.752	21.426	0.00	0.00
ATOM	7076	N	PHE	X	468	46.867	44.325	21.980	0.00	0.00
ATOM	7077	H	PHE	X	468	47.832	44.087	21.803	0.00	0.00
ATOM	7078	CA	PHE	X	468	46.002	43.503	22.860	0.00	0.00
ATOM	7079	HA	PHE	X	468	45.147	43.176	22.267	0.00	0.00
ATOM	7080	CB	PHE	X	468	46.888	42.292	23.293	0.00	0.00
ATOM	7081	HB2	PHE	X	468	47.115	41.734	22.384	0.00	0.00
ATOM	7082	HB3	PHE	X	468	47.776	42.760	23.717	0.00	0.00
ATOM	7083	CG	PHE	X	468	46.318	41.468	24.406	0.00	0.00
ATOM	7084	CD1	PHE	X	468	45.053	40.828	24.195	0.00	0.00
ATOM	7085	HD1	PHE	X	468	44.461	41.128	23.343	0.00	0.00
ATOM	7086	CE1	PHE	X	468	44.581	39.852	25.100	0.00	0.00
ATOM	7087	HE1	PHE	X	468	43.614	39.407	24.919	0.00	0.00
ATOM	7088	CZ	PHE	X	468	45.372	39.542	26.239	0.00	0.00
ATOM	7089	HZ	PHE	X	468	45.061	38.755	26.911	0.00	0.00
ATOM	7090	CE2	PHE	X	468	46.591	40.190	26.469	0.00	0.00
ATOM	7091	HE2	PHE	X	468	47.124	40.036	27.396	0.00	0.00
ATOM	7092	CD2	PHE	X	468	47.042	41.144	25.574	0.00	0.00
ATOM	7093	HD2	PHE	X	468	47.968	41.674	25.741	0.00	0.00
ATOM	7094	C	PHE	X	468	45.411	44.277	24.064	0.00	0.00
ATOM	7095	O	PHE	X	468	44.298	44.011	24.458	0.00	0.00
ATOM	7096	N	ALA	X	469	46.109	45.314	24.634	0.00	0.00
ATOM	7097	H	ALA	X	469	47.071	45.436	24.351	0.00	0.00
ATOM	7098	CA	ALA	X	469	45.539	46.282	25.592	0.00	0.00
ATOM	7099	HA	ALA	X	469	45.290	45.776	26.524	0.00	0.00
ATOM	7100	CB	ALA	X	469	46.581	47.395	25.981	0.00	0.00
ATOM	7101	HB1	ALA	X	469	46.176	47.970	26.814	0.00	0.00
ATOM	7102	HB2	ALA	X	469	47.491	46.842	26.213	0.00	0.00
ATOM	7103	HB3	ALA	X	469	46.757	47.988	25.084	0.00	0.00
ATOM	7104	C	ALA	X	469	44.248	46.829	25.005	0.00	0.00
ATOM	7105	O	ALA	X	469	43.150	46.642	25.546	0.00	0.00
ATOM	7106	N	GLN	X	470	44.359	47.462	23.862	0.00	0.00
ATOM	7107	H	GLN	X	470	45.276	47.497	23.442	0.00	0.00
ATOM	7108	CA	GLN	X	470	43.262	48.163	23.247	0.00	0.00
ATOM	7109	HA	GLN	X	470	42.961	49.001	23.877	0.00	0.00

ATOM	7110	CB	GLN	X	470	43.864	48.876	22.006	0.00	0.00
ATOM	7111	HB2	GLN	X	470	44.507	48.168	21.483	0.00	0.00
ATOM	7112	HB3	GLN	X	470	43.050	49.192	21.352	0.00	0.00
ATOM	7113	CG	GLN	X	470	44.759	50.063	22.215	0.00	0.00
ATOM	7114	HG2	GLN	X	470	44.346	50.751	22.952	0.00	0.00
ATOM	7115	HG3	GLN	X	470	45.700	49.734	22.655	0.00	0.00
ATOM	7116	CD	GLN	X	470	45.186	50.773	20.933	0.00	0.00
ATOM	7117	OE1	GLN	X	470	46.257	50.515	20.282	0.00	0.00
ATOM	7118	NE2	GLN	X	470	44.469	51.729	20.339	0.00	0.00
ATOM	7119	HE21	GLN	X	470	44.882	52.203	19.549	0.00	0.00
ATOM	7120	HE22	GLN	X	470	43.532	51.939	20.652	0.00	0.00
ATOM	7121	C	GLN	X	470	41.979	47.236	22.926	0.00	0.00
ATOM	7122	O	GLN	X	470	40.809	47.688	22.920	0.00	0.00
ATOM	7123	N	ARG	X	471	42.304	45.938	22.837	0.00	0.00
ATOM	7124	H	ARG	X	471	43.272	45.665	22.747	0.00	0.00
ATOM	7125	CA	ARG	X	471	41.197	44.963	22.787	0.00	0.00
ATOM	7126	HA	ARG	X	471	40.442	45.272	22.065	0.00	0.00
ATOM	7127	CB	ARG	X	471	41.702	43.586	22.316	0.00	0.00
ATOM	7128	HB2	ARG	X	471	42.569	43.223	22.867	0.00	0.00
ATOM	7129	HB3	ARG	X	471	40.817	42.998	22.562	0.00	0.00
ATOM	7130	CG	ARG	X	471	41.986	43.586	20.765	0.00	0.00
ATOM	7131	HG2	ARG	X	471	41.104	43.688	20.133	0.00	0.00
ATOM	7132	HG3	ARG	X	471	42.535	44.495	20.522	0.00	0.00
ATOM	7133	CD	ARG	X	471	42.799	42.303	20.355	0.00	0.00
ATOM	7134	HD2	ARG	X	471	42.891	42.435	19.277	0.00	0.00
ATOM	7135	HD3	ARG	X	471	43.775	42.194	20.829	0.00	0.00
ATOM	7136	NE	ARG	X	471	41.892	41.165	20.637	0.00	0.00
ATOM	7137	HE	ARG	X	471	40.927	41.340	20.394	0.00	0.00
ATOM	7138	CZ	ARG	X	471	42.257	39.953	21.094	0.00	0.00
ATOM	7139	NH1	ARG	X	471	43.525	39.710	21.319	0.00	0.00
ATOM	7140	HH11	ARG	X	471	44.202	40.459	21.300	0.00	0.00
ATOM	7141	HH12	ARG	X	471	43.757	38.808	21.709	0.00	0.00
ATOM	7142	NH2	ARG	X	471	41.343	39.048	21.336	0.00	0.00
ATOM	7143	HH21	ARG	X	471	40.461	39.055	20.843	0.00	0.00
ATOM	7144	HH22	ARG	X	471	41.704	38.213	21.775	0.00	0.00
ATOM	7145	C	ARG	X	471	40.498	44.979	24.164	0.00	0.00
ATOM	7146	O	ARG	X	471	39.285	45.186	24.168	0.00	0.00
ATOM	7147	N	LEU	X	472	41.176	44.621	25.242	0.00	0.00
ATOM	7148	H	LEU	X	472	42.149	44.366	25.153	0.00	0.00
ATOM	7149	CA	LEU	X	472	40.539	44.515	26.567	0.00	0.00
ATOM	7150	HA	LEU	X	472	39.659	43.873	26.537	0.00	0.00
ATOM	7151	CB	LEU	X	472	41.437	43.995	27.658	0.00	0.00
ATOM	7152	HB2	LEU	X	472	42.134	44.800	27.890	0.00	0.00
ATOM	7153	HB3	LEU	X	472	40.941	43.736	28.593	0.00	0.00
ATOM	7154	CG	LEU	X	472	42.279	42.748	27.435	0.00	0.00
ATOM	7155	HG	LEU	X	472	43.250	43.081	27.068	0.00	0.00
ATOM	7156	CD1	LEU	X	472	42.499	42.036	28.763	0.00	0.00
ATOM	7157	HD11	LEU	X	472	42.939	42.743	29.467	0.00	0.00
ATOM	7158	HD12	LEU	X	472	41.536	41.652	29.101	0.00	0.00
ATOM	7159	HD13	LEU	X	472	43.135	41.164	28.613	0.00	0.00
ATOM	7160	CD2	LEU	X	472	41.446	41.765	26.542	0.00	0.00
ATOM	7161	HD21	LEU	X	472	41.624	42.118	25.526	0.00	0.00
ATOM	7162	HD22	LEU	X	472	41.770	40.725	26.586	0.00	0.00
ATOM	7163	HD23	LEU	X	472	40.431	41.919	26.910	0.00	0.00
ATOM	7164	C	LEU	X	472	39.926	45.833	27.121	0.00	0.00
ATOM	7165	O	LEU	X	472	38.831	45.796	27.745	0.00	0.00
ATOM	7166	N	MET	X	473	40.583	46.949	26.906	0.00	0.00
ATOM	7167	H	MET	X	473	41.573	46.795	26.779	0.00	0.00
ATOM	7168	CA	MET	X	473	40.080	48.275	27.090	0.00	0.00
ATOM	7169	HA	MET	X	473	39.853	48.566	28.116	0.00	0.00
ATOM	7170	CB	MET	X	473	41.177	49.288	26.609	0.00	0.00
ATOM	7171	HB2	MET	X	473	41.470	49.081	25.580	0.00	0.00
ATOM	7172	HB3	MET	X	473	40.793	50.308	26.639	0.00	0.00
ATOM	7173	CG	MET	X	473	42.468	49.276	27.412	0.00	0.00
ATOM	7174	HG2	MET	X	473	42.239	49.907	28.271	0.00	0.00
ATOM	7175	HG3	MET	X	473	42.755	48.280	27.747	0.00	0.00
ATOM	7176	SD	MET	X	473	43.886	49.884	26.508	0.00	0.00
ATOM	7177	CE	MET	X	473	43.287	51.571	26.103	0.00	0.00
ATOM	7178	HE1	MET	X	473	42.267	51.453	25.737	0.00	0.00
ATOM	7179	HE2	MET	X	473	43.229	52.193	26.996	0.00	0.00

ATOM	7180	HE3	MET	X	473	43.918	52.163	25.440	0.00	0.00
ATOM	7181	C	MET	X	473	38.785	48.530	26.378	0.00	0.00
ATOM	7182	O	MET	X	473	37.772	48.942	26.977	0.00	0.00
ATOM	7183	N	ARG	X	474	38.650	48.103	25.149	0.00	0.00
ATOM	7184	H	ARG	X	474	39.441	47.759	24.622	0.00	0.00
ATOM	7185	CA	ARG	X	474	37.396	48.228	24.424	0.00	0.00
ATOM	7186	HA	ARG	X	474	37.130	49.283	24.495	0.00	0.00
ATOM	7187	CB	ARG	X	474	37.767	47.897	22.981	0.00	0.00
ATOM	7188	HB2	ARG	X	474	38.518	48.636	22.702	0.00	0.00
ATOM	7189	HB3	ARG	X	474	38.167	46.887	22.887	0.00	0.00
ATOM	7190	CG	ARG	X	474	36.618	47.878	21.955	0.00	0.00
ATOM	7191	HG2	ARG	X	474	37.099	47.743	20.986	0.00	0.00
ATOM	7192	HG3	ARG	X	474	35.866	47.089	21.954	0.00	0.00
ATOM	7193	CD	ARG	X	474	35.988	49.204	22.116	0.00	0.00
ATOM	7194	HD2	ARG	X	474	35.398	49.125	23.029	0.00	0.00
ATOM	7195	HD3	ARG	X	474	36.737	49.986	22.241	0.00	0.00
ATOM	7196	NE	ARG	X	474	35.085	49.472	21.012	0.00	0.00
ATOM	7197	HE	ARG	X	474	34.726	48.640	20.565	0.00	0.00
ATOM	7198	CZ	ARG	X	474	34.701	50.622	20.490	0.00	0.00
ATOM	7199	NH1	ARG	X	474	35.092	51.737	21.015	0.00	0.00
ATOM	7200	HH11	ARG	X	474	35.881	51.782	21.644	0.00	0.00
ATOM	7201	HH12	ARG	X	474	34.633	52.603	20.770	0.00	0.00
ATOM	7202	NH2	ARG	X	474	33.878	50.729	19.469	0.00	0.00
ATOM	7203	HH21	ARG	X	474	33.459	49.949	18.983	0.00	0.00
ATOM	7204	HH22	ARG	X	474	33.764	51.643	19.055	0.00	0.00
ATOM	7205	C	ARG	X	474	36.309	47.312	25.061	0.00	0.00
ATOM	7206	O	ARG	X	474	35.224	47.789	25.295	0.00	0.00
ATOM	7207	N	TYR	X	475	36.612	46.061	25.281	0.00	0.00
ATOM	7208	H	TYR	X	475	37.551	45.723	25.122	0.00	0.00
ATOM	7209	CA	TYR	X	475	35.543	45.123	25.735	0.00	0.00
ATOM	7210	HA	TYR	X	475	34.745	45.210	24.997	0.00	0.00
ATOM	7211	CB	TYR	X	475	36.005	43.698	25.732	0.00	0.00
ATOM	7212	HB2	TYR	X	475	36.787	43.655	26.490	0.00	0.00
ATOM	7213	HB3	TYR	X	475	35.092	43.132	25.918	0.00	0.00
ATOM	7214	CG	TYR	X	475	36.681	43.152	24.537	0.00	0.00
ATOM	7215	CD1	TYR	X	475	36.339	43.490	23.248	0.00	0.00
ATOM	7216	HD1	TYR	X	475	35.624	44.283	23.087	0.00	0.00
ATOM	7217	CE1	TYR	X	475	36.967	42.985	22.106	0.00	0.00
ATOM	7218	HE1	TYR	X	475	36.683	43.264	21.102	0.00	0.00
ATOM	7219	CZ	TYR	X	475	38.031	42.022	22.285	0.00	0.00
ATOM	7220	OH	TYR	X	475	38.681	41.443	21.203	0.00	0.00
ATOM	7221	HH	TYR	X	475	38.127	41.679	20.456	0.00	0.00
ATOM	7222	CE2	TYR	X	475	38.310	41.616	23.619	0.00	0.00
ATOM	7223	HE2	TYR	X	475	39.122	40.951	23.872	0.00	0.00
ATOM	7224	CD2	TYR	X	475	37.668	42.194	24.720	0.00	0.00
ATOM	7225	HD2	TYR	X	475	37.990	41.924	25.715	0.00	0.00
ATOM	7226	C	TYR	X	475	34.989	45.516	27.107	0.00	0.00
ATOM	7227	O	TYR	X	475	33.785	45.529	27.342	0.00	0.00
ATOM	7228	N	TRP	X	476	35.845	45.930	28.073	0.00	0.00
ATOM	7229	H	TRP	X	476	36.812	45.982	27.787	0.00	0.00
ATOM	7230	CA	TRP	X	476	35.407	46.235	29.451	0.00	0.00
ATOM	7231	HA	TRP	X	476	34.737	45.441	29.782	0.00	0.00
ATOM	7232	CB	TRP	X	476	36.618	46.450	30.409	0.00	0.00
ATOM	7233	HB2	TRP	X	476	37.489	46.638	29.783	0.00	0.00
ATOM	7234	HB3	TRP	X	476	36.609	47.350	31.024	0.00	0.00
ATOM	7235	CG	TRP	X	476	36.975	45.285	31.325	0.00	0.00
ATOM	7236	CD1	TRP	X	476	37.049	45.408	32.639	0.00	0.00
ATOM	7237	HD1	TRP	X	476	36.690	46.293	33.144	0.00	0.00
ATOM	7238	NE1	TRP	X	476	37.427	44.148	33.196	0.00	0.00
ATOM	7239	HE1	TRP	X	476	37.606	44.017	34.181	0.00	0.00
ATOM	7240	CE2	TRP	X	476	37.495	43.194	32.201	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	37.765	41.808	32.221	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	37.872	41.252	33.140	0.00	0.00
ATOM	7243	CH2	TRP	X	476	37.921	41.178	30.951	0.00	0.00
ATOM	7244	HH2	TRP	X	476	38.230	40.143	30.932	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	37.898	41.913	29.741	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	37.987	41.416	28.786	0.00	0.00
ATOM	7247	CE3	TRP	X	476	37.542	43.242	29.795	0.00	0.00
ATOM	7248	HE3	TRP	X	476	37.530	43.852	28.903	0.00	0.00
ATOM	7249	CD2	TRP	X	476	37.334	43.902	30.993	0.00	0.00

ATOM	7250	C	TRP	X	476	34.500	47.505	29.503	0.00	0.00
ATOM	7251	O	TRP	X	476	33.521	47.556	30.230	0.00	0.00
ATOM	7252	N	ALA	X	477	34.859	48.461	28.697	0.00	0.00
ATOM	7253	H	ALA	X	477	35.810	48.333	28.382	0.00	0.00
ATOM	7254	CA	ALA	X	477	34.151	49.731	28.517	0.00	0.00
ATOM	7255	HA	ALA	X	477	33.747	50.041	29.481	0.00	0.00
ATOM	7256	CB	ALA	X	477	35.153	50.772	28.129	0.00	0.00
ATOM	7257	HB1	ALA	X	477	35.477	50.609	27.101	0.00	0.00
ATOM	7258	HB2	ALA	X	477	34.823	51.810	28.088	0.00	0.00
ATOM	7259	HB3	ALA	X	477	36.058	50.680	28.730	0.00	0.00
ATOM	7260	C	ALA	X	477	32.990	49.594	27.475	0.00	0.00
ATOM	7261	O	ALA	X	477	32.010	50.298	27.722	0.00	0.00
ATOM	7262	N	ASN	X	478	33.025	48.732	26.467	0.00	0.00
ATOM	7263	H	ASN	X	478	33.903	48.275	26.265	0.00	0.00
ATOM	7264	CA	ASN	X	478	31.756	48.317	25.728	0.00	0.00
ATOM	7265	HA	ASN	X	478	31.294	49.148	25.193	0.00	0.00
ATOM	7266	CB	ASN	X	478	32.067	47.198	24.683	0.00	0.00
ATOM	7267	HB2	ASN	X	478	32.579	46.378	25.187	0.00	0.00
ATOM	7268	HB3	ASN	X	478	31.118	46.765	24.366	0.00	0.00
ATOM	7269	CG	ASN	X	478	32.625	47.605	23.322	0.00	0.00
ATOM	7270	OD1	ASN	X	478	32.502	48.747	22.902	0.00	0.00
ATOM	7271	ND2	ASN	X	478	33.087	46.665	22.551	0.00	0.00
ATOM	7272	HD21	ASN	X	478	33.331	46.967	21.618	0.00	0.00
ATOM	7273	HD22	ASN	X	478	33.142	45.698	22.837	0.00	0.00
ATOM	7274	C	ASN	X	478	30.638	47.701	26.582	0.00	0.00
ATOM	7275	O	ASN	X	478	29.511	48.135	26.583	0.00	0.00
ATOM	7276	N	PHE	X	479	31.088	46.871	27.488	0.00	0.00
ATOM	7277	H	PHE	X	479	32.035	46.533	27.387	0.00	0.00
ATOM	7278	CA	PHE	X	479	30.327	46.327	28.584	0.00	0.00
ATOM	7279	HA	PHE	X	479	29.481	45.741	28.223	0.00	0.00
ATOM	7280	CB	PHE	X	479	31.100	45.268	29.347	0.00	0.00
ATOM	7281	HB2	PHE	X	479	31.287	44.448	28.653	0.00	0.00
ATOM	7282	HB3	PHE	X	479	32.051	45.632	29.736	0.00	0.00
ATOM	7283	CG	PHE	X	479	30.403	44.591	30.496	0.00	0.00
ATOM	7284	CD1	PHE	X	479	29.564	43.491	30.215	0.00	0.00
ATOM	7285	HD1	PHE	X	479	29.395	43.030	29.253	0.00	0.00
ATOM	7286	CE1	PHE	X	479	28.762	42.976	31.226	0.00	0.00
ATOM	7287	HE1	PHE	X	479	27.990	42.239	31.063	0.00	0.00
ATOM	7288	CZ	PHE	X	479	28.816	43.436	32.555	0.00	0.00
ATOM	7289	HZ	PHE	X	479	28.123	43.014	33.268	0.00	0.00
ATOM	7290	CE2	PHE	X	479	29.702	44.465	32.855	0.00	0.00
ATOM	7291	HE2	PHE	X	479	29.753	44.773	33.889	0.00	0.00
ATOM	7292	CD2	PHE	X	479	30.497	45.060	31.825	0.00	0.00
ATOM	7293	HD2	PHE	X	479	31.045	45.956	32.077	0.00	0.00
ATOM	7294	C	PHE	X	479	29.732	47.442	29.457	0.00	0.00
ATOM	7295	O	PHE	X	479	28.585	47.491	29.781	0.00	0.00
ATOM	7296	N	ALA	X	480	30.536	48.479	29.768	0.00	0.00
ATOM	7297	H	ALA	X	480	31.525	48.435	29.568	0.00	0.00
ATOM	7298	CA	ALA	X	480	30.121	49.640	30.608	0.00	0.00
ATOM	7299	HA	ALA	X	480	29.599	49.103	31.400	0.00	0.00
ATOM	7300	CB	ALA	X	480	31.296	50.555	31.031	0.00	0.00
ATOM	7301	HB1	ALA	X	480	31.699	51.126	30.195	0.00	0.00
ATOM	7302	HB2	ALA	X	480	30.955	51.233	31.814	0.00	0.00
ATOM	7303	HB3	ALA	X	480	32.102	50.033	31.548	0.00	0.00
ATOM	7304	C	ALA	X	480	29.049	50.530	30.006	0.00	0.00
ATOM	7305	O	ALA	X	480	28.223	51.126	30.682	0.00	0.00
ATOM	7306	N	ARG	X	481	29.139	50.654	28.675	0.00	0.00
ATOM	7307	H	ARG	X	481	29.970	50.214	28.305	0.00	0.00
ATOM	7308	CA	ARG	X	481	28.129	51.324	27.799	0.00	0.00
ATOM	7309	HA	ARG	X	481	27.863	52.334	28.109	0.00	0.00
ATOM	7310	CB	ARG	X	481	28.652	51.432	26.350	0.00	0.00
ATOM	7311	HB2	ARG	X	481	28.933	50.433	26.015	0.00	0.00
ATOM	7312	HB3	ARG	X	481	27.841	51.837	25.745	0.00	0.00
ATOM	7313	CG	ARG	X	481	29.927	52.346	26.377	0.00	0.00
ATOM	7314	HG2	ARG	X	481	29.707	53.403	26.526	0.00	0.00
ATOM	7315	HG3	ARG	X	481	30.601	52.188	27.219	0.00	0.00
ATOM	7316	CD	ARG	X	481	30.714	52.051	25.061	0.00	0.00
ATOM	7317	HD2	ARG	X	481	30.941	50.989	24.967	0.00	0.00
ATOM	7318	HD3	ARG	X	481	30.140	52.384	24.196	0.00	0.00
ATOM	7319	NE	ARG	X	481	31.931	52.809	24.984	0.00	0.00

ATOM	7320	HE	ARG	X	481	31.885	53.792	25.213	0.00	0.00
ATOM	7321	CZ	ARG	X	481	33.128	52.427	24.585	0.00	0.00
ATOM	7322	NH1	ARG	X	481	33.475	51.244	24.043	0.00	0.00
ATOM	7323	HH11	ARG	X	481	32.832	50.488	23.859	0.00	0.00
ATOM	7324	HH12	ARG	X	481	34.457	51.104	23.852	0.00	0.00
ATOM	7325	NH2	ARG	X	481	34.117	53.229	24.853	0.00	0.00
ATOM	7326	HH21	ARG	X	481	33.871	54.119	25.261	0.00	0.00
ATOM	7327	HH22	ARG	X	481	35.027	52.892	24.573	0.00	0.00
ATOM	7328	C	ARG	X	481	26.743	50.554	27.716	0.00	0.00
ATOM	7329	O	ARG	X	481	25.649	51.172	27.797	0.00	0.00
ATOM	7330	N	THR	X	482	26.675	49.244	27.442	0.00	0.00
ATOM	7331	H	THR	X	482	27.541	48.732	27.354	0.00	0.00
ATOM	7332	CA	THR	X	482	25.440	48.559	26.929	0.00	0.00
ATOM	7333	HA	THR	X	482	24.622	49.273	26.830	0.00	0.00
ATOM	7334	CB	THR	X	482	25.608	48.045	25.516	0.00	0.00
ATOM	7335	HB	THR	X	482	24.721	47.453	25.290	0.00	0.00
ATOM	7336	CG2	THR	X	482	25.650	49.202	24.525	0.00	0.00
ATOM	7337	HG21	THR	X	482	24.859	49.939	24.669	0.00	0.00
ATOM	7338	HG22	THR	X	482	26.562	49.789	24.632	0.00	0.00
ATOM	7339	HG23	THR	X	482	25.574	48.769	23.528	0.00	0.00
ATOM	7340	OG1	THR	X	482	26.769	47.238	25.448	0.00	0.00
ATOM	7341	HG1	THR	X	482	26.667	46.356	25.083	0.00	0.00
ATOM	7342	C	THR	X	482	24.983	47.422	27.761	0.00	0.00
ATOM	7343	O	THR	X	482	23.762	47.100	27.817	0.00	0.00
ATOM	7344	N	GLY	X	483	25.886	46.926	28.570	0.00	0.00
ATOM	7345	H	GLY	X	483	26.783	47.361	28.732	0.00	0.00
ATOM	7346	CA	GLY	X	483	25.661	45.722	29.406	0.00	0.00
ATOM	7347	HA2	GLY	X	483	26.311	45.722	30.269	0.00	0.00
ATOM	7348	HA3	GLY	X	483	24.613	45.646	29.534	0.00	0.00
ATOM	7349	C	GLY	X	483	26.118	44.447	28.752	0.00	0.00
ATOM	7350	O	GLY	X	483	25.641	43.390	29.106	0.00	0.00
ATOM	7351	N	ASP	X	484	26.994	44.583	27.717	0.00	0.00
ATOM	7352	H	ASP	X	484	27.286	45.493	27.390	0.00	0.00
ATOM	7353	CA	ASP	X	484	27.603	43.557	26.925	0.00	0.00
ATOM	7354	HA	ASP	X	484	27.920	42.673	27.478	0.00	0.00
ATOM	7355	CB	ASP	X	484	26.574	42.832	26.005	0.00	0.00
ATOM	7356	HB2	ASP	X	484	27.161	42.238	25.304	0.00	0.00
ATOM	7357	HB3	ASP	X	484	26.034	42.213	26.721	0.00	0.00
ATOM	7358	CG	ASP	X	484	25.766	43.838	25.315	0.00	0.00
ATOM	7359	OD1	ASP	X	484	26.156	44.676	24.475	0.00	0.00
ATOM	7360	OD2	ASP	X	484	24.567	43.932	25.721	0.00	0.00
ATOM	7361	C	ASP	X	484	28.871	44.050	26.190	0.00	0.00
ATOM	7362	O	ASP	X	484	28.961	45.229	25.926	0.00	0.00
ATOM	7363	N	PRO	X	485	29.928	43.235	26.147	0.00	0.00
ATOM	7364	CD	PRO	X	485	29.862	41.802	26.420	0.00	0.00
ATOM	7365	HD2	PRO	X	485	29.097	41.358	25.783	0.00	0.00
ATOM	7366	HD3	PRO	X	485	29.678	41.699	27.489	0.00	0.00
ATOM	7367	CG	PRO	X	485	31.323	41.282	26.145	0.00	0.00
ATOM	7368	HG2	PRO	X	485	31.351	40.876	25.134	0.00	0.00
ATOM	7369	HG3	PRO	X	485	31.583	40.463	26.816	0.00	0.00
ATOM	7370	CB	PRO	X	485	32.088	42.513	26.449	0.00	0.00
ATOM	7371	HB2	PRO	X	485	33.141	42.483	26.166	0.00	0.00
ATOM	7372	HB3	PRO	X	485	32.147	42.679	27.525	0.00	0.00
ATOM	7373	CA	PRO	X	485	31.303	43.699	25.790	0.00	0.00
ATOM	7374	HA	PRO	X	485	31.493	44.702	26.171	0.00	0.00
ATOM	7375	C	PRO	X	485	31.526	43.683	24.272	0.00	0.00
ATOM	7376	O	PRO	X	485	32.634	44.039	23.843	0.00	0.00
ATOM	7377	N	ASN	X	486	30.536	43.229	23.460	0.00	0.00
ATOM	7378	H	ASN	X	486	29.616	42.959	23.778	0.00	0.00
ATOM	7379	CA	ASN	X	486	30.817	43.138	22.004	0.00	0.00
ATOM	7380	HA	ASN	X	486	31.884	42.942	21.890	0.00	0.00
ATOM	7381	CB	ASN	X	486	30.060	41.920	21.509	0.00	0.00
ATOM	7382	HB2	ASN	X	486	30.212	41.811	20.435	0.00	0.00
ATOM	7383	HB3	ASN	X	486	30.414	40.995	21.964	0.00	0.00
ATOM	7384	CG	ASN	X	486	28.514	41.971	21.712	0.00	0.00
ATOM	7385	OD1	ASN	X	486	28.016	41.360	22.697	0.00	0.00
ATOM	7386	ND2	ASN	X	486	27.670	42.664	20.891	0.00	0.00
ATOM	7387	HD21	ASN	X	486	26.695	42.748	21.141	0.00	0.00
ATOM	7388	HD22	ASN	X	486	28.007	43.149	20.072	0.00	0.00
ATOM	7389	C	ASN	X	486	30.391	44.444	21.332	0.00	0.00

ATOM	7390	O	ASN	X	486	29.611	45.162	21.917	0.00	0.00
ATOM	7391	N	GLU	X	487	30.718	44.658	20.035	0.00	0.00
ATOM	7392	H	GLU	X	487	31.261	43.938	19.581	0.00	0.00
ATOM	7393	CA	GLU	X	487	30.193	45.753	19.162	0.00	0.00
ATOM	7394	HA	GLU	X	487	30.352	46.661	19.743	0.00	0.00
ATOM	7395	CB	GLU	X	487	31.116	45.861	17.889	0.00	0.00
ATOM	7396	HB2	GLU	X	487	31.112	44.982	17.244	0.00	0.00
ATOM	7397	HB3	GLU	X	487	30.755	46.690	17.282	0.00	0.00
ATOM	7398	CG	GLU	X	487	32.571	46.157	18.181	0.00	0.00
ATOM	7399	HG2	GLU	X	487	33.104	45.367	18.709	0.00	0.00
ATOM	7400	HG3	GLU	X	487	33.098	46.359	17.248	0.00	0.00
ATOM	7401	CD	GLU	X	487	32.742	47.468	18.986	0.00	0.00
ATOM	7402	OE1	GLU	X	487	32.139	48.498	18.683	0.00	0.00
ATOM	7403	OE2	GLU	X	487	33.705	47.398	19.774	0.00	0.00
ATOM	7404	C	GLU	X	487	28.685	45.670	18.839	0.00	0.00
ATOM	7405	O	GLU	X	487	28.208	44.547	18.537	0.00	0.00
ATOM	7406	N	PRO	X	488	27.909	46.746	18.752	0.00	0.00
ATOM	7407	CD	PRO	X	488	28.444	48.085	19.037	0.00	0.00
ATOM	7408	HD2	PRO	X	488	29.371	48.151	18.467	0.00	0.00
ATOM	7409	HD3	PRO	X	488	28.457	48.240	20.116	0.00	0.00
ATOM	7410	CG	PRO	X	488	27.444	49.054	18.497	0.00	0.00
ATOM	7411	HG2	PRO	X	488	27.826	49.302	17.507	0.00	0.00
ATOM	7412	HG3	PRO	X	488	27.436	49.849	19.243	0.00	0.00
ATOM	7413	CB	PRO	X	488	26.136	48.219	18.513	0.00	0.00
ATOM	7414	HB2	PRO	X	488	25.376	48.566	17.812	0.00	0.00
ATOM	7415	HB3	PRO	X	488	25.773	48.246	19.540	0.00	0.00
ATOM	7416	CA	PRO	X	488	26.591	46.730	18.296	0.00	0.00
ATOM	7417	HA	PRO	X	488	25.870	46.143	18.865	0.00	0.00
ATOM	7418	C	PRO	X	488	26.501	46.477	16.797	0.00	0.00
ATOM	7419	O	PRO	X	488	25.422	46.221	16.267	0.00	0.00
ATOM	7420	N	ARG	X	489	27.651	46.350	16.087	0.00	0.00
ATOM	7421	H	ARG	X	489	28.554	46.457	16.526	0.00	0.00
ATOM	7422	CA	ARG	X	489	27.683	46.059	14.665	0.00	0.00
ATOM	7423	HA	ARG	X	489	26.845	45.396	14.449	0.00	0.00
ATOM	7424	CB	ARG	X	489	27.511	47.340	13.747	0.00	0.00
ATOM	7425	HB2	ARG	X	489	26.882	48.092	14.224	0.00	0.00
ATOM	7426	HB3	ARG	X	489	28.494	47.791	13.608	0.00	0.00
ATOM	7427	CG	ARG	X	489	26.921	46.951	12.390	0.00	0.00
ATOM	7428	HG2	ARG	X	489	27.625	46.363	11.802	0.00	0.00
ATOM	7429	HG3	ARG	X	489	26.025	46.417	12.706	0.00	0.00
ATOM	7430	CD	ARG	X	489	26.751	48.230	11.650	0.00	0.00
ATOM	7431	HD2	ARG	X	489	26.062	48.840	12.235	0.00	0.00
ATOM	7432	HD3	ARG	X	489	27.680	48.786	11.520	0.00	0.00
ATOM	7433	NE	ARG	X	489	25.883	48.132	10.398	0.00	0.00
ATOM	7434	HE	ARG	X	489	25.271	47.331	10.344	0.00	0.00
ATOM	7435	CZ	ARG	X	489	25.730	49.196	9.610	0.00	0.00
ATOM	7436	NH1	ARG	X	489	24.776	49.174	8.673	0.00	0.00
ATOM	7437	HH11	ARG	X	489	24.302	48.293	8.531	0.00	0.00
ATOM	7438	HH12	ARG	X	489	24.587	49.950	8.055	0.00	0.00
ATOM	7439	NH2	ARG	X	489	26.394	50.277	9.740	0.00	0.00
ATOM	7440	HH21	ARG	X	489	27.263	50.229	10.254	0.00	0.00
ATOM	7441	HH22	ARG	X	489	26.265	50.954	9.002	0.00	0.00
ATOM	7442	C	ARG	X	489	28.938	45.195	14.469	0.00	0.00
ATOM	7443	O	ARG	X	489	29.994	45.694	14.700	0.00	0.00
ATOM	7444	N	ASP	X	490	28.906	43.928	14.084	0.00	0.00
ATOM	7445	H	ASP	X	490	28.021	43.442	14.077	0.00	0.00
ATOM	7446	CA	ASP	X	490	30.063	43.058	14.001	0.00	0.00
ATOM	7447	HA	ASP	X	490	30.576	43.334	14.922	0.00	0.00
ATOM	7448	CB	ASP	X	490	29.702	41.665	14.241	0.00	0.00
ATOM	7449	HB2	ASP	X	490	30.687	41.226	14.399	0.00	0.00
ATOM	7450	HB3	ASP	X	490	28.944	41.555	15.017	0.00	0.00
ATOM	7451	CG	ASP	X	490	29.020	40.970	13.040	0.00	0.00
ATOM	7452	OD1	ASP	X	490	27.828	41.275	12.909	0.00	0.00
ATOM	7453	OD2	ASP	X	490	29.721	40.087	12.478	0.00	0.00
ATOM	7454	C	ASP	X	490	31.121	43.199	12.883	0.00	0.00
ATOM	7455	O	ASP	X	490	30.682	43.046	11.741	0.00	0.00
ATOM	7456	N	PRO	X	491	32.417	43.409	13.153	0.00	0.00
ATOM	7457	CD	PRO	X	491	32.875	43.756	14.539	0.00	0.00
ATOM	7458	HD2	PRO	X	491	32.531	43.025	15.270	0.00	0.00
ATOM	7459	HD3	PRO	X	491	32.350	44.661	14.845	0.00	0.00

ATOM	7460	CG	PRO	X	491	34.380	44.044	14.497	0.00	0.00
ATOM	7461	HG2	PRO	X	491	34.884	43.117	14.771	0.00	0.00
ATOM	7462	HG3	PRO	X	491	34.733	44.866	15.119	0.00	0.00
ATOM	7463	CB	PRO	X	491	34.554	44.347	13.012	0.00	0.00
ATOM	7464	HB2	PRO	X	491	35.594	44.163	12.741	0.00	0.00
ATOM	7465	HB3	PRO	X	491	34.246	45.392	12.994	0.00	0.00
ATOM	7466	CA	PRO	X	491	33.532	43.487	12.227	0.00	0.00
ATOM	7467	HA	PRO	X	491	33.249	44.112	11.380	0.00	0.00
ATOM	7468	C	PRO	X	491	34.051	42.148	11.834	0.00	0.00
ATOM	7469	O	PRO	X	491	33.431	41.155	12.216	0.00	0.00
ATOM	7470	N	LYS	X	492	35.180	42.030	11.144	0.00	0.00
ATOM	7471	H	LYS	X	492	35.741	42.812	10.840	0.00	0.00
ATOM	7472	CA	LYS	X	492	35.831	40.699	10.764	0.00	0.00
ATOM	7473	HA	LYS	X	492	35.158	39.989	10.283	0.00	0.00
ATOM	7474	CB	LYS	X	492	36.974	40.929	9.801	0.00	0.00
ATOM	7475	HB2	LYS	X	492	37.288	39.952	9.432	0.00	0.00
ATOM	7476	HB3	LYS	X	492	36.520	41.334	8.897	0.00	0.00
ATOM	7477	CG	LYS	X	492	38.178	41.777	10.341	0.00	0.00
ATOM	7478	HG2	LYS	X	492	37.742	42.683	10.763	0.00	0.00
ATOM	7479	HG3	LYS	X	492	38.684	41.238	11.142	0.00	0.00
ATOM	7480	CD	LYS	X	492	39.134	42.192	9.159	0.00	0.00
ATOM	7481	HD2	LYS	X	492	39.799	41.343	8.997	0.00	0.00
ATOM	7482	HD3	LYS	X	492	38.477	42.474	8.337	0.00	0.00
ATOM	7483	CE	LYS	X	492	40.069	43.304	9.622	0.00	0.00
ATOM	7484	HE2	LYS	X	492	39.556	44.209	9.948	0.00	0.00
ATOM	7485	HE3	LYS	X	492	40.512	42.889	10.527	0.00	0.00
ATOM	7486	NZ	LYS	X	492	41.199	43.643	8.646	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	42.085	43.799	9.104	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	41.415	42.808	8.120	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	41.017	44.433	8.043	0.00	0.00
ATOM	7490	C	LYS	X	492	36.394	39.985	12.077	0.00	0.00
ATOM	7491	O	LYS	X	492	36.532	38.754	12.021	0.00	0.00
ATOM	7492	N	ALA	X	493	36.770	40.803	13.077	0.00	0.00
ATOM	7493	H	ALA	X	493	36.550	41.787	13.025	0.00	0.00
ATOM	7494	CA	ALA	X	493	37.261	40.337	14.367	0.00	0.00
ATOM	7495	HA	ALA	X	493	38.047	39.605	14.178	0.00	0.00
ATOM	7496	CB	ALA	X	493	37.932	41.509	15.089	0.00	0.00
ATOM	7497	HB1	ALA	X	493	38.368	41.327	16.071	0.00	0.00
ATOM	7498	HB2	ALA	X	493	38.736	42.010	14.549	0.00	0.00
ATOM	7499	HB3	ALA	X	493	37.124	42.219	15.268	0.00	0.00
ATOM	7500	C	ALA	X	493	36.134	39.725	15.195	0.00	0.00
ATOM	7501	O	ALA	X	493	35.076	40.353	15.343	0.00	0.00
ATOM	7502	N	PRO	X	494	36.283	38.550	15.747	0.00	0.00
ATOM	7503	CD	PRO	X	494	37.463	37.736	15.614	0.00	0.00
ATOM	7504	HD2	PRO	X	494	38.202	38.244	16.233	0.00	0.00
ATOM	7505	HD3	PRO	X	494	37.717	37.724	14.554	0.00	0.00
ATOM	7506	CG	PRO	X	494	37.100	36.323	16.047	0.00	0.00
ATOM	7507	HG2	PRO	X	494	37.930	35.788	16.507	0.00	0.00
ATOM	7508	HG3	PRO	X	494	36.649	35.685	15.286	0.00	0.00
ATOM	7509	CB	PRO	X	494	35.991	36.531	17.023	0.00	0.00
ATOM	7510	HB2	PRO	X	494	36.367	36.767	18.018	0.00	0.00
ATOM	7511	HB3	PRO	X	494	35.304	35.695	17.161	0.00	0.00
ATOM	7512	CA	PRO	X	494	35.304	37.779	16.535	0.00	0.00
ATOM	7513	HA	PRO	X	494	34.618	37.417	15.770	0.00	0.00
ATOM	7514	C	PRO	X	494	34.719	38.498	17.743	0.00	0.00
ATOM	7515	O	PRO	X	494	35.338	39.319	18.455	0.00	0.00
ATOM	7516	N	GLN	X	495	33.413	38.185	18.012	0.00	0.00
ATOM	7517	H	GLN	X	495	32.993	37.764	17.195	0.00	0.00
ATOM	7518	CA	GLN	X	495	32.630	38.886	19.027	0.00	0.00
ATOM	7519	HA	GLN	X	495	33.179	39.685	19.526	0.00	0.00
ATOM	7520	CB	GLN	X	495	31.413	39.509	18.301	0.00	0.00
ATOM	7521	HB2	GLN	X	495	30.843	38.776	17.731	0.00	0.00
ATOM	7522	HB3	GLN	X	495	30.751	39.940	19.052	0.00	0.00
ATOM	7523	CG	GLN	X	495	31.789	40.636	17.353	0.00	0.00
ATOM	7524	HG2	GLN	X	495	32.327	40.139	16.546	0.00	0.00
ATOM	7525	HG3	GLN	X	495	30.910	41.058	16.866	0.00	0.00
ATOM	7526	CD	GLN	X	495	32.536	41.713	18.037	0.00	0.00
ATOM	7527	OE1	GLN	X	495	32.156	42.438	18.946	0.00	0.00
ATOM	7528	NE2	GLN	X	495	33.748	41.929	17.575	0.00	0.00
ATOM	7529	HE21	GLN	X	495	34.306	42.738	17.809	0.00	0.00

ATOM	7530	HE22	GLN	X	495	34.184	41.252	16.966	0.00	0.00
ATOM	7531	C	GLN	X	495	32.237	37.965	20.216	0.00	0.00
ATOM	7532	O	GLN	X	495	31.442	37.030	20.003	0.00	0.00
ATOM	7533	N	TRP	X	496	32.689	38.293	21.411	0.00	0.00
ATOM	7534	H	TRP	X	496	33.204	39.160	21.474	0.00	0.00
ATOM	7535	CA	TRP	X	496	32.457	37.622	22.672	0.00	0.00
ATOM	7536	HA	TRP	X	496	33.042	36.703	22.690	0.00	0.00
ATOM	7537	CB	TRP	X	496	33.126	38.456	23.803	0.00	0.00
ATOM	7538	HB2	TRP	X	496	34.141	38.704	23.492	0.00	0.00
ATOM	7539	HB3	TRP	X	496	32.581	39.390	23.941	0.00	0.00
ATOM	7540	CG	TRP	X	496	33.211	37.857	25.204	0.00	0.00
ATOM	7541	CD1	TRP	X	496	32.575	36.762	25.661	0.00	0.00
ATOM	7542	HD1	TRP	X	496	32.083	36.052	25.013	0.00	0.00
ATOM	7543	NE1	TRP	X	496	32.806	36.493	27.008	0.00	0.00
ATOM	7544	HE1	TRP	X	496	32.536	35.607	27.409	0.00	0.00
ATOM	7545	CE2	TRP	X	496	33.494	37.532	27.564	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	34.126	37.814	28.824	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	34.023	37.184	29.694	0.00	0.00
ATOM	7548	CH2	TRP	X	496	34.915	39.017	28.964	0.00	0.00
ATOM	7549	HH2	TRP	X	496	35.328	39.242	29.936	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	35.211	39.842	27.861	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	35.716	40.785	28.011	0.00	0.00
ATOM	7552	CE3	TRP	X	496	34.741	39.506	26.614	0.00	0.00
ATOM	7553	HE3	TRP	X	496	35.064	40.148	25.808	0.00	0.00
ATOM	7554	CD2	TRP	X	496	33.881	38.376	26.400	0.00	0.00
ATOM	7555	C	TRP	X	496	30.996	37.218	22.837	0.00	0.00
ATOM	7556	O	TRP	X	496	30.078	38.071	22.973	0.00	0.00
ATOM	7557	N	PRO	X	497	30.583	35.908	22.777	0.00	0.00
ATOM	7558	CD	PRO	X	497	31.273	34.773	22.189	0.00	0.00
ATOM	7559	HD2	PRO	X	497	32.277	34.672	22.601	0.00	0.00
ATOM	7560	HD3	PRO	X	497	31.333	34.889	21.106	0.00	0.00
ATOM	7561	CG	PRO	X	497	30.424	33.504	22.383	0.00	0.00
ATOM	7562	HG2	PRO	X	497	30.636	32.959	23.303	0.00	0.00
ATOM	7563	HG3	PRO	X	497	30.467	32.930	21.458	0.00	0.00
ATOM	7564	CB	PRO	X	497	28.991	34.072	22.498	0.00	0.00
ATOM	7565	HB2	PRO	X	497	28.402	33.532	23.240	0.00	0.00
ATOM	7566	HB3	PRO	X	497	28.520	34.171	21.520	0.00	0.00
ATOM	7567	CA	PRO	X	497	29.226	35.477	23.052	0.00	0.00
ATOM	7568	HA	PRO	X	497	28.461	36.085	22.569	0.00	0.00
ATOM	7569	C	PRO	X	497	28.995	35.431	24.583	0.00	0.00
ATOM	7570	O	PRO	X	497	29.941	35.247	25.326	0.00	0.00
ATOM	7571	N	PRO	X	498	27.717	35.515	25.058	0.00	0.00
ATOM	7572	CD	PRO	X	498	26.500	35.480	24.243	0.00	0.00
ATOM	7573	HD2	PRO	X	498	26.616	34.668	23.525	0.00	0.00
ATOM	7574	HD3	PRO	X	498	26.296	36.393	23.685	0.00	0.00
ATOM	7575	CG	PRO	X	498	25.357	35.381	25.253	0.00	0.00
ATOM	7576	HG2	PRO	X	498	25.158	34.317	25.378	0.00	0.00
ATOM	7577	HG3	PRO	X	498	24.576	36.115	25.055	0.00	0.00
ATOM	7578	CB	PRO	X	498	25.908	35.791	26.544	0.00	0.00
ATOM	7579	HB2	PRO	X	498	25.353	35.411	27.402	0.00	0.00
ATOM	7580	HB3	PRO	X	498	25.816	36.872	26.642	0.00	0.00
ATOM	7581	CA	PRO	X	498	27.367	35.389	26.437	0.00	0.00
ATOM	7582	HA	PRO	X	498	27.978	36.187	26.859	0.00	0.00
ATOM	7583	C	PRO	X	498	27.730	34.084	27.196	0.00	0.00
ATOM	7584	O	PRO	X	498	27.832	33.045	26.558	0.00	0.00
ATOM	7585	N	TYR	X	499	27.703	34.130	28.520	0.00	0.00
ATOM	7586	H	TYR	X	499	27.591	35.033	28.957	0.00	0.00
ATOM	7587	CA	TYR	X	499	27.685	32.897	29.276	0.00	0.00
ATOM	7588	HA	TYR	X	499	28.058	32.007	28.768	0.00	0.00
ATOM	7589	CB	TYR	X	499	28.539	33.045	30.525	0.00	0.00
ATOM	7590	HB2	TYR	X	499	29.492	33.545	30.349	0.00	0.00
ATOM	7591	HB3	TYR	X	499	27.995	33.731	31.174	0.00	0.00
ATOM	7592	CG	TYR	X	499	28.778	31.748	31.277	0.00	0.00
ATOM	7593	CD1	TYR	X	499	27.869	31.158	32.235	0.00	0.00
ATOM	7594	HD1	TYR	X	499	26.983	31.682	32.561	0.00	0.00
ATOM	7595	CE1	TYR	X	499	28.324	30.053	33.003	0.00	0.00
ATOM	7596	HE1	TYR	X	499	27.738	29.699	33.839	0.00	0.00
ATOM	7597	CZ	TYR	X	499	29.512	29.398	32.652	0.00	0.00
ATOM	7598	OH	TYR	X	499	29.818	28.225	33.208	0.00	0.00
ATOM	7599	HH	TYR	X	499	29.226	27.968	33.919	0.00	0.00

ATOM	7600	CE2	TYR	X	499	30.324	29.857	31.617	0.00	0.00
ATOM	7601	HE2	TYR	X	499	31.187	29.244	31.403	0.00	0.00
ATOM	7602	CD2	TYR	X	499	29.934	31.028	30.942	0.00	0.00
ATOM	7603	HD2	TYR	X	499	30.657	31.275	30.178	0.00	0.00
ATOM	7604	C	TYR	X	499	26.270	32.563	29.772	0.00	0.00
ATOM	7605	O	TYR	X	499	25.541	33.433	30.227	0.00	0.00
ATOM	7606	N	THR	X	500	25.925	31.290	29.735	0.00	0.00
ATOM	7607	H	THR	X	500	26.576	30.601	29.385	0.00	0.00
ATOM	7608	CA	THR	X	500	24.583	30.807	30.177	0.00	0.00
ATOM	7609	HA	THR	X	500	24.104	31.567	30.794	0.00	0.00
ATOM	7610	CB	THR	X	500	23.704	30.484	29.023	0.00	0.00
ATOM	7611	HB	THR	X	500	22.766	30.132	29.454	0.00	0.00
ATOM	7612	CG2	THR	X	500	23.313	31.626	28.104	0.00	0.00
ATOM	7613	HG21	THR	X	500	22.624	31.237	27.354	0.00	0.00
ATOM	7614	HG22	THR	X	500	22.827	32.403	28.695	0.00	0.00
ATOM	7615	HG23	THR	X	500	24.233	32.060	27.714	0.00	0.00
ATOM	7616	OG1	THR	X	500	24.320	29.587	28.082	0.00	0.00
ATOM	7617	HG1	THR	X	500	23.656	29.253	27.473	0.00	0.00
ATOM	7618	C	THR	X	500	24.679	29.631	31.049	0.00	0.00
ATOM	7619	O	THR	X	500	25.613	28.849	31.033	0.00	0.00
ATOM	7620	N	ALA	X	501	23.573	29.294	31.729	0.00	0.00
ATOM	7621	H	ALA	X	501	22.723	29.801	31.528	0.00	0.00
ATOM	7622	CA	ALA	X	501	23.434	28.092	32.641	0.00	0.00
ATOM	7623	HA	ALA	X	501	24.272	28.196	33.330	0.00	0.00
ATOM	7624	CB	ALA	X	501	22.118	28.301	33.507	0.00	0.00
ATOM	7625	HB1	ALA	X	501	22.020	27.469	34.204	0.00	0.00
ATOM	7626	HB2	ALA	X	501	22.267	29.169	34.150	0.00	0.00
ATOM	7627	HB3	ALA	X	501	21.266	28.461	32.847	0.00	0.00
ATOM	7628	C	ALA	X	501	23.576	26.795	31.824	0.00	0.00
ATOM	7629	O	ALA	X	501	24.108	25.858	32.335	0.00	0.00
ATOM	7630	N	GLY	X	502	23.002	26.684	30.560	0.00	0.00
ATOM	7631	H	GLY	X	502	22.510	27.476	30.171	0.00	0.00
ATOM	7632	CA	GLY	X	502	23.194	25.518	29.761	0.00	0.00
ATOM	7633	HA2	GLY	X	502	23.189	24.684	30.433	0.00	0.00
ATOM	7634	HA3	GLY	X	502	22.437	25.575	28.943	0.00	0.00
ATOM	7635	C	GLY	X	502	24.530	25.392	29.080	0.00	0.00
ATOM	7636	O	GLY	X	502	25.436	24.624	29.446	0.00	0.00
ATOM	7637	N	ALA	X	503	24.752	26.220	28.062	0.00	0.00
ATOM	7638	H	ALA	X	503	23.988	26.759	27.680	0.00	0.00
ATOM	7639	CA	ALA	X	503	25.971	26.192	27.210	0.00	0.00
ATOM	7640	HA	ALA	X	503	26.179	25.196	26.820	0.00	0.00
ATOM	7641	CB	ALA	X	503	25.660	26.974	25.959	0.00	0.00
ATOM	7642	HB1	ALA	X	503	25.454	28.019	26.193	0.00	0.00
ATOM	7643	HB2	ALA	X	503	26.382	26.960	25.142	0.00	0.00
ATOM	7644	HB3	ALA	X	503	24.710	26.603	25.575	0.00	0.00
ATOM	7645	C	ALA	X	503	27.361	26.572	27.839	0.00	0.00
ATOM	7646	O	ALA	X	503	28.365	26.040	27.471	0.00	0.00
ATOM	7647	N	GLN	X	504	27.334	27.526	28.800	0.00	0.00
ATOM	7648	H	GLN	X	504	26.387	27.828	28.980	0.00	0.00
ATOM	7649	CA	GLN	X	504	28.466	27.768	29.648	0.00	0.00
ATOM	7650	HA	GLN	X	504	28.230	28.666	30.219	0.00	0.00
ATOM	7651	CB	GLN	X	504	28.611	26.542	30.662	0.00	0.00
ATOM	7652	HB2	GLN	X	504	28.752	25.634	30.076	0.00	0.00
ATOM	7653	HB3	GLN	X	504	29.518	26.724	31.239	0.00	0.00
ATOM	7654	CG	GLN	X	504	27.436	26.432	31.669	0.00	0.00
ATOM	7655	HG2	GLN	X	504	27.327	27.411	32.134	0.00	0.00
ATOM	7656	HG3	GLN	X	504	26.485	26.158	31.212	0.00	0.00
ATOM	7657	CD	GLN	X	504	27.664	25.518	32.865	0.00	0.00
ATOM	7658	OE1	GLN	X	504	27.673	25.906	33.991	0.00	0.00
ATOM	7659	NE2	GLN	X	504	27.653	24.239	32.695	0.00	0.00
ATOM	7660	HE21	GLN	X	504	27.683	23.763	33.585	0.00	0.00
ATOM	7661	HE22	GLN	X	504	27.751	23.869	31.761	0.00	0.00
ATOM	7662	C	GLN	X	504	29.756	28.132	28.961	0.00	0.00
ATOM	7663	O	GLN	X	504	30.870	27.692	29.257	0.00	0.00
ATOM	7664	N	GLN	X	505	29.591	29.018	27.954	0.00	0.00
ATOM	7665	H	GLN	X	505	28.659	29.392	27.840	0.00	0.00
ATOM	7666	CA	GLN	X	505	30.650	29.401	27.011	0.00	0.00
ATOM	7667	HA	GLN	X	505	31.408	28.624	26.906	0.00	0.00
ATOM	7668	CB	GLN	X	505	30.230	29.717	25.529	0.00	0.00
ATOM	7669	HB2	GLN	X	505	29.431	30.458	25.528	0.00	0.00

ATOM	7670	HB3	GLN	X	505	31.062	30.182	25.003	0.00	0.00
ATOM	7671	CG	GLN	X	505	29.793	28.483	24.749	0.00	0.00
ATOM	7672	HG2	GLN	X	505	30.613	27.767	24.803	0.00	0.00
ATOM	7673	HG3	GLN	X	505	28.917	27.975	25.150	0.00	0.00
ATOM	7674	CD	GLN	X	505	29.733	28.854	23.295	0.00	0.00
ATOM	7675	OE1	GLN	X	505	30.379	28.304	22.357	0.00	0.00
ATOM	7676	NE2	GLN	X	505	28.936	29.815	22.953	0.00	0.00
ATOM	7677	HE21	GLN	X	505	28.693	29.905	21.977	0.00	0.00
ATOM	7678	HE22	GLN	X	505	28.506	30.368	23.680	0.00	0.00
ATOM	7679	C	GLN	X	505	31.454	30.644	27.437	0.00	0.00
ATOM	7680	O	GLN	X	505	30.816	31.622	27.829	0.00	0.00
ATOM	7681	N	TYR	X	506	32.794	30.616	27.245	0.00	0.00
ATOM	7682	H	TYR	X	506	33.152	29.757	26.853	0.00	0.00
ATOM	7683	CA	TYR	X	506	33.832	31.521	27.779	0.00	0.00
ATOM	7684	HA	TYR	X	506	33.338	32.458	28.037	0.00	0.00
ATOM	7685	CB	TYR	X	506	34.337	30.906	29.110	0.00	0.00
ATOM	7686	HB2	TYR	X	506	34.848	31.714	29.633	0.00	0.00
ATOM	7687	HB3	TYR	X	506	33.506	30.609	29.750	0.00	0.00
ATOM	7688	CG	TYR	X	506	35.216	29.683	28.996	0.00	0.00
ATOM	7689	CD1	TYR	X	506	34.728	28.318	29.004	0.00	0.00
ATOM	7690	HD1	TYR	X	506	33.672	28.225	29.208	0.00	0.00
ATOM	7691	CE1	TYR	X	506	35.670	27.206	28.814	0.00	0.00
ATOM	7692	HE1	TYR	X	506	35.415	26.182	28.586	0.00	0.00
ATOM	7693	CZ	TYR	X	506	37.052	27.500	28.865	0.00	0.00
ATOM	7694	OH	TYR	X	506	37.949	26.530	28.848	0.00	0.00
ATOM	7695	HH	TYR	X	506	37.601	25.657	28.654	0.00	0.00
ATOM	7696	CE2	TYR	X	506	37.456	28.836	28.901	0.00	0.00
ATOM	7697	HE2	TYR	X	506	38.516	29.030	28.976	0.00	0.00
ATOM	7698	CD2	TYR	X	506	36.579	29.913	28.948	0.00	0.00
ATOM	7699	HD2	TYR	X	506	37.064	30.867	28.806	0.00	0.00
ATOM	7700	C	TYR	X	506	34.996	31.791	26.773	0.00	0.00
ATOM	7701	O	TYR	X	506	35.343	30.916	26.013	0.00	0.00
ATOM	7702	N	VAL	X	507	35.644	32.959	26.819	0.00	0.00
ATOM	7703	H	VAL	X	507	35.358	33.618	27.529	0.00	0.00
ATOM	7704	CA	VAL	X	507	36.600	33.336	25.795	0.00	0.00
ATOM	7705	HA	VAL	X	507	36.585	32.604	24.988	0.00	0.00
ATOM	7706	CB	VAL	X	507	36.453	34.784	25.282	0.00	0.00
ATOM	7707	HB	VAL	X	507	37.338	34.961	24.670	0.00	0.00
ATOM	7708	CG1	VAL	X	507	35.288	34.790	24.282	0.00	0.00
ATOM	7709	HG11	VAL	X	507	34.318	34.540	24.712	0.00	0.00
ATOM	7710	HG12	VAL	X	507	35.212	35.788	23.852	0.00	0.00
ATOM	7711	HG13	VAL	X	507	35.458	34.110	23.447	0.00	0.00
ATOM	7712	CG2	VAL	X	507	36.384	35.831	26.341	0.00	0.00
ATOM	7713	HG21	VAL	X	507	37.258	35.790	26.990	0.00	0.00
ATOM	7714	HG22	VAL	X	507	36.184	36.756	25.800	0.00	0.00
ATOM	7715	HG23	VAL	X	507	35.432	35.648	26.839	0.00	0.00
ATOM	7716	C	VAL	X	507	38.036	33.227	26.358	0.00	0.00
ATOM	7717	O	VAL	X	507	38.352	33.376	27.528	0.00	0.00
ATOM	7718	N	SER	X	508	39.017	33.005	25.411	0.00	0.00
ATOM	7719	H	SER	X	508	38.796	32.776	24.453	0.00	0.00
ATOM	7720	CA	SER	X	508	40.475	33.002	25.674	0.00	0.00
ATOM	7721	HA	SER	X	508	40.668	32.766	26.721	0.00	0.00
ATOM	7722	CB	SER	X	508	41.118	31.818	24.987	0.00	0.00
ATOM	7723	HB2	SER	X	508	40.660	30.944	25.450	0.00	0.00
ATOM	7724	HB3	SER	X	508	40.832	31.901	23.939	0.00	0.00
ATOM	7725	OG	SER	X	508	42.508	31.842	24.815	0.00	0.00
ATOM	7726	HG	SER	X	508	43.020	31.519	25.560	0.00	0.00
ATOM	7727	C	SER	X	508	41.057	34.354	25.272	0.00	0.00
ATOM	7728	O	SER	X	508	41.052	34.770	24.062	0.00	0.00
ATOM	7729	N	LEU	X	509	41.524	35.065	26.319	0.00	0.00
ATOM	7730	H	LEU	X	509	41.564	34.685	27.254	0.00	0.00
ATOM	7731	CA	LEU	X	509	42.102	36.329	26.202	0.00	0.00
ATOM	7732	HA	LEU	X	509	41.883	36.832	25.260	0.00	0.00
ATOM	7733	CB	LEU	X	509	41.706	37.221	27.278	0.00	0.00
ATOM	7734	HB2	LEU	X	509	42.035	36.817	28.235	0.00	0.00
ATOM	7735	HB3	LEU	X	509	42.168	38.193	27.101	0.00	0.00
ATOM	7736	CG	LEU	X	509	40.182	37.416	27.421	0.00	0.00
ATOM	7737	HG	LEU	X	509	39.700	36.443	27.520	0.00	0.00
ATOM	7738	CD1	LEU	X	509	40.033	38.427	28.569	0.00	0.00
ATOM	7739	HD11	LEU	X	509	40.251	39.452	28.270	0.00	0.00

ATOM	7740	HD12	LEU	X	509	38.967	38.424	28.796	0.00	0.00
ATOM	7741	HD13	LEU	X	509	40.529	38.118	29.490	0.00	0.00
ATOM	7742	CD2	LEU	X	509	39.579	37.973	26.165	0.00	0.00
ATOM	7743	HD21	LEU	X	509	38.490	37.956	26.199	0.00	0.00
ATOM	7744	HD22	LEU	X	509	39.986	38.980	26.069	0.00	0.00
ATOM	7745	HD23	LEU	X	509	39.810	37.375	25.284	0.00	0.00
ATOM	7746	C	LEU	X	509	43.610	36.090	26.143	0.00	0.00
ATOM	7747	O	LEU	X	509	44.210	35.614	27.087	0.00	0.00
ATOM	7748	N	ASP	X	510	44.226	36.548	25.050	0.00	0.00
ATOM	7749	H	ASP	X	510	43.537	36.899	24.400	0.00	0.00
ATOM	7750	CA	ASP	X	510	45.581	36.242	24.594	0.00	0.00
ATOM	7751	HA	ASP	X	510	46.216	36.259	25.480	0.00	0.00
ATOM	7752	CB	ASP	X	510	45.508	34.838	23.954	0.00	0.00
ATOM	7753	HB2	ASP	X	510	45.229	34.176	24.775	0.00	0.00
ATOM	7754	HB3	ASP	X	510	44.679	34.788	23.248	0.00	0.00
ATOM	7755	CG	ASP	X	510	46.788	34.335	23.325	0.00	0.00
ATOM	7756	OD1	ASP	X	510	47.788	34.142	24.048	0.00	0.00
ATOM	7757	OD2	ASP	X	510	46.884	34.328	22.076	0.00	0.00
ATOM	7758	C	ASP	X	510	45.972	37.200	23.490	0.00	0.00
ATOM	7759	O	ASP	X	510	45.037	37.649	22.840	0.00	0.00
ATOM	7760	N	LEU	X	511	47.277	37.310	23.122	0.00	0.00
ATOM	7761	H	LEU	X	511	47.915	36.576	23.395	0.00	0.00
ATOM	7762	CA	LEU	X	511	47.717	38.087	21.964	0.00	0.00
ATOM	7763	HA	LEU	X	511	47.456	39.122	22.182	0.00	0.00
ATOM	7764	CB	LEU	X	511	49.218	37.844	21.790	0.00	0.00
ATOM	7765	HB2	LEU	X	511	49.326	36.765	21.679	0.00	0.00
ATOM	7766	HB3	LEU	X	511	49.510	38.297	20.843	0.00	0.00
ATOM	7767	CG	LEU	X	511	50.093	38.324	23.003	0.00	0.00
ATOM	7768	HG	LEU	X	511	49.794	37.694	23.841	0.00	0.00
ATOM	7769	CD1	LEU	X	511	51.517	38.175	22.556	0.00	0.00
ATOM	7770	HD11	LEU	X	511	51.723	38.931	21.799	0.00	0.00
ATOM	7771	HD12	LEU	X	511	52.192	38.274	23.407	0.00	0.00
ATOM	7772	HD13	LEU	X	511	51.661	37.182	22.131	0.00	0.00
ATOM	7773	CD2	LEU	X	511	49.867	39.761	23.496	0.00	0.00
ATOM	7774	HD21	LEU	X	511	50.575	39.920	24.310	0.00	0.00
ATOM	7775	HD22	LEU	X	511	50.126	40.461	22.701	0.00	0.00
ATOM	7776	HD23	LEU	X	511	48.849	39.893	23.863	0.00	0.00
ATOM	7777	C	LEU	X	511	47.029	37.772	20.593	0.00	0.00
ATOM	7778	O	LEU	X	511	46.834	38.739	19.914	0.00	0.00
ATOM	7779	N	ARG	X	512	46.714	36.517	20.261	0.00	0.00
ATOM	7780	H	ARG	X	512	46.910	35.765	20.906	0.00	0.00
ATOM	7781	CA	ARG	X	512	45.991	36.157	19.049	0.00	0.00
ATOM	7782	HA	ARG	X	512	46.470	36.718	18.247	0.00	0.00
ATOM	7783	CB	ARG	X	512	46.223	34.645	18.827	0.00	0.00
ATOM	7784	HB2	ARG	X	512	46.073	34.090	19.753	0.00	0.00
ATOM	7785	HB3	ARG	X	512	45.464	34.290	18.130	0.00	0.00
ATOM	7786	CG	ARG	X	512	47.531	34.149	18.201	0.00	0.00
ATOM	7787	HG2	ARG	X	512	47.338	33.083	18.088	0.00	0.00
ATOM	7788	HG3	ARG	X	512	47.526	34.584	17.202	0.00	0.00
ATOM	7789	CD	ARG	X	512	48.892	34.296	18.848	0.00	0.00
ATOM	7790	HD2	ARG	X	512	49.605	33.775	18.210	0.00	0.00
ATOM	7791	HD3	ARG	X	512	49.064	35.366	18.969	0.00	0.00
ATOM	7792	NE	ARG	X	512	48.887	33.755	20.198	0.00	0.00
ATOM	7793	HE	ARG	X	512	48.043	33.919	20.728	0.00	0.00
ATOM	7794	CZ	ARG	X	512	49.864	33.201	20.910	0.00	0.00
ATOM	7795	NH1	ARG	X	512	50.991	32.893	20.313	0.00	0.00
ATOM	7796	HH11	ARG	X	512	51.173	33.138	19.350	0.00	0.00
ATOM	7797	HH12	ARG	X	512	51.674	32.237	20.664	0.00	0.00
ATOM	7798	NH2	ARG	X	512	49.766	32.990	22.198	0.00	0.00
ATOM	7799	HH21	ARG	X	512	49.138	33.515	22.791	0.00	0.00
ATOM	7800	HH22	ARG	X	512	50.510	32.611	22.766	0.00	0.00
ATOM	7801	C	ARG	X	512	44.530	36.511	19.129	0.00	0.00
ATOM	7802	O	ARG	X	512	44.035	36.865	20.213	0.00	0.00
ATOM	7803	N	PRO	X	513	43.733	36.393	18.035	0.00	0.00
ATOM	7804	CD	PRO	X	513	44.119	36.389	16.635	0.00	0.00
ATOM	7805	HD2	PRO	X	513	44.654	35.507	16.285	0.00	0.00
ATOM	7806	HD3	PRO	X	513	44.751	37.273	16.545	0.00	0.00
ATOM	7807	CG	PRO	X	513	42.915	36.545	15.770	0.00	0.00
ATOM	7808	HG2	PRO	X	513	42.848	35.846	14.936	0.00	0.00
ATOM	7809	HG3	PRO	X	513	42.809	37.528	15.312	0.00	0.00

ATOM	7810	CB	PRO	X	513	41.851	36.251	16.708	0.00	0.00
ATOM	7811	HB2	PRO	X	513	41.655	35.179	16.723	0.00	0.00
ATOM	7812	HB3	PRO	X	513	40.901	36.705	16.426	0.00	0.00
ATOM	7813	CA	PRO	X	513	42.339	36.692	18.056	0.00	0.00
ATOM	7814	HA	PRO	X	513	42.123	37.723	18.336	0.00	0.00
ATOM	7815	C	PRO	X	513	41.563	35.999	19.163	0.00	0.00
ATOM	7816	O	PRO	X	513	42.115	34.992	19.662	0.00	0.00
ATOM	7817	N	LEU	X	514	40.373	36.424	19.556	0.00	0.00
ATOM	7818	H	LEU	X	514	40.108	37.295	19.119	0.00	0.00
ATOM	7819	CA	LEU	X	514	39.472	35.637	20.467	0.00	0.00
ATOM	7820	HA	LEU	X	514	39.836	35.551	21.491	0.00	0.00
ATOM	7821	CB	LEU	X	514	38.067	36.368	20.517	0.00	0.00
ATOM	7822	HB2	LEU	X	514	37.859	36.616	19.476	0.00	0.00
ATOM	7823	HB3	LEU	X	514	37.247	35.697	20.769	0.00	0.00
ATOM	7824	CG	LEU	X	514	37.972	37.701	21.364	0.00	0.00
ATOM	7825	HG	LEU	X	514	38.396	38.524	20.788	0.00	0.00
ATOM	7826	CD1	LEU	X	514	36.464	38.029	21.521	0.00	0.00
ATOM	7827	HD11	LEU	X	514	36.277	39.051	21.849	0.00	0.00
ATOM	7828	HD12	LEU	X	514	36.001	37.873	20.547	0.00	0.00
ATOM	7829	HD13	LEU	X	514	35.894	37.326	22.130	0.00	0.00
ATOM	7830	CD2	LEU	X	514	38.538	37.670	22.797	0.00	0.00
ATOM	7831	HD21	LEU	X	514	39.615	37.542	22.904	0.00	0.00
ATOM	7832	HD22	LEU	X	514	38.284	38.609	23.287	0.00	0.00
ATOM	7833	HD23	LEU	X	514	38.094	36.851	23.363	0.00	0.00
ATOM	7834	C	LEU	X	514	39.265	34.242	19.889	0.00	0.00
ATOM	7835	O	LEU	X	514	39.008	34.041	18.716	0.00	0.00
ATOM	7836	N	GLU	X	515	39.185	33.309	20.846	0.00	0.00
ATOM	7837	H	GLU	X	515	39.275	33.626	21.801	0.00	0.00
ATOM	7838	CA	GLU	X	515	38.708	31.911	20.600	0.00	0.00
ATOM	7839	HA	GLU	X	515	38.334	31.904	19.576	0.00	0.00
ATOM	7840	CB	GLU	X	515	39.925	31.019	20.495	0.00	0.00
ATOM	7841	HB2	GLU	X	515	40.413	31.372	19.587	0.00	0.00
ATOM	7842	HB3	GLU	X	515	40.520	31.144	21.400	0.00	0.00
ATOM	7843	CG	GLU	X	515	39.664	29.487	20.327	0.00	0.00
ATOM	7844	HG2	GLU	X	515	38.718	29.284	20.829	0.00	0.00
ATOM	7845	HG3	GLU	X	515	39.440	29.214	19.295	0.00	0.00
ATOM	7846	CD	GLU	X	515	40.819	28.676	20.860	0.00	0.00
ATOM	7847	OE1	GLU	X	515	40.479	27.790	21.638	0.00	0.00
ATOM	7848	OE2	GLU	X	515	41.973	28.813	20.414	0.00	0.00
ATOM	7849	C	GLU	X	515	37.653	31.522	21.680	0.00	0.00
ATOM	7850	O	GLU	X	515	37.879	31.737	22.909	0.00	0.00
ATOM	7851	N	VAL	X	516	36.498	31.085	21.253	0.00	0.00
ATOM	7852	H	VAL	X	516	36.417	30.862	20.271	0.00	0.00
ATOM	7853	CA	VAL	X	516	35.347	30.794	22.131	0.00	0.00
ATOM	7854	HA	VAL	X	516	35.424	31.483	22.972	0.00	0.00
ATOM	7855	CB	VAL	X	516	33.941	30.928	21.321	0.00	0.00
ATOM	7856	HB	VAL	X	516	33.823	30.135	20.582	0.00	0.00
ATOM	7857	CG1	VAL	X	516	32.765	30.760	22.272	0.00	0.00
ATOM	7858	HG11	VAL	X	516	31.841	30.699	21.697	0.00	0.00
ATOM	7859	HG12	VAL	X	516	32.839	29.769	22.719	0.00	0.00
ATOM	7860	HG13	VAL	X	516	32.823	31.562	23.009	0.00	0.00
ATOM	7861	CG2	VAL	X	516	33.739	32.291	20.711	0.00	0.00
ATOM	7862	HG21	VAL	X	516	32.700	32.503	20.461	0.00	0.00
ATOM	7863	HG22	VAL	X	516	34.106	32.945	21.502	0.00	0.00
ATOM	7864	HG23	VAL	X	516	34.413	32.479	19.875	0.00	0.00
ATOM	7865	C	VAL	X	516	35.447	29.318	22.606	0.00	0.00
ATOM	7866	O	VAL	X	516	35.796	28.453	21.794	0.00	0.00
ATOM	7867	N	ARG	X	517	35.285	29.006	23.916	0.00	0.00
ATOM	7868	H	ARG	X	517	35.044	29.746	24.560	0.00	0.00
ATOM	7869	CA	ARG	X	517	35.363	27.714	24.609	0.00	0.00
ATOM	7870	HA	ARG	X	517	35.383	26.945	23.836	0.00	0.00
ATOM	7871	CB	ARG	X	517	36.627	27.581	25.461	0.00	0.00
ATOM	7872	HB2	ARG	X	517	36.659	28.304	26.276	0.00	0.00
ATOM	7873	HB3	ARG	X	517	36.602	26.529	25.742	0.00	0.00
ATOM	7874	CG	ARG	X	517	37.895	27.826	24.581	0.00	0.00
ATOM	7875	HG2	ARG	X	517	37.958	27.002	23.871	0.00	0.00
ATOM	7876	HG3	ARG	X	517	37.808	28.809	24.119	0.00	0.00
ATOM	7877	CD	ARG	X	517	39.175	27.821	25.407	0.00	0.00
ATOM	7878	HD2	ARG	X	517	39.087	28.580	26.183	0.00	0.00
ATOM	7879	HD3	ARG	X	517	39.329	26.829	25.832	0.00	0.00

ATOM	7880	NE	ARG	X	517	40.308	28.051	24.512	0.00	0.00
ATOM	7881	HE	ARG	X	517	40.185	27.931	23.516	0.00	0.00
ATOM	7882	CZ	ARG	X	517	41.514	28.401	24.815	0.00	0.00
ATOM	7883	NH1	ARG	X	517	41.968	28.568	26.046	0.00	0.00
ATOM	7884	HH11	ARG	X	517	41.540	28.044	26.795	0.00	0.00
ATOM	7885	HH12	ARG	X	517	42.760	29.176	26.200	0.00	0.00
ATOM	7886	NH2	ARG	X	517	42.308	28.677	23.867	0.00	0.00
ATOM	7887	HH21	ARG	X	517	42.009	28.774	22.908	0.00	0.00
ATOM	7888	HH22	ARG	X	517	43.288	28.841	24.046	0.00	0.00
ATOM	7889	C	ARG	X	517	34.089	27.374	25.423	0.00	0.00
ATOM	7890	O	ARG	X	517	33.107	28.094	25.396	0.00	0.00
ATOM	7891	N	ARG	X	518	34.002	26.203	26.065	0.00	0.00
ATOM	7892	H	ARG	X	518	34.805	25.591	26.098	0.00	0.00
ATOM	7893	CA	ARG	X	518	32.730	25.607	26.519	0.00	0.00
ATOM	7894	HA	ARG	X	518	32.048	26.390	26.848	0.00	0.00
ATOM	7895	CB	ARG	X	518	32.019	24.774	25.401	0.00	0.00
ATOM	7896	HB2	ARG	X	518	31.596	25.458	24.666	0.00	0.00
ATOM	7897	HB3	ARG	X	518	32.813	24.136	25.013	0.00	0.00
ATOM	7898	CG	ARG	X	518	30.859	23.902	25.757	0.00	0.00
ATOM	7899	HG2	ARG	X	518	31.177	23.215	26.542	0.00	0.00
ATOM	7900	HG3	ARG	X	518	30.161	24.598	26.221	0.00	0.00
ATOM	7901	CD	ARG	X	518	30.222	23.130	24.641	0.00	0.00
ATOM	7902	HD2	ARG	X	518	30.876	22.377	24.201	0.00	0.00
ATOM	7903	HD3	ARG	X	518	29.274	22.682	24.937	0.00	0.00
ATOM	7904	NE	ARG	X	518	29.804	24.009	23.592	0.00	0.00
ATOM	7905	HE	ARG	X	518	30.454	24.036	22.819	0.00	0.00
ATOM	7906	CZ	ARG	X	518	28.693	24.726	23.431	0.00	0.00
ATOM	7907	NH1	ARG	X	518	27.816	24.910	24.386	0.00	0.00
ATOM	7908	HH11	ARG	X	518	27.894	24.410	25.260	0.00	0.00
ATOM	7909	HH12	ARG	X	518	26.931	25.317	24.118	0.00	0.00
ATOM	7910	NH2	ARG	X	518	28.464	25.382	22.298	0.00	0.00
ATOM	7911	HH21	ARG	X	518	29.146	25.256	21.565	0.00	0.00
ATOM	7912	HH22	ARG	X	518	27.702	26.026	22.140	0.00	0.00
ATOM	7913	C	ARG	X	518	32.875	24.926	27.828	0.00	0.00
ATOM	7914	O	ARG	X	518	33.798	24.179	28.031	0.00	0.00
ATOM	7915	N	GLY	X	519	31.814	24.972	28.666	0.00	0.00
ATOM	7916	H	GLY	X	519	31.051	25.552	28.346	0.00	0.00
ATOM	7917	CA	GLY	X	519	31.634	24.053	29.801	0.00	0.00
ATOM	7918	HA2	GLY	X	519	30.687	24.209	30.185	0.00	0.00
ATOM	7919	HA3	GLY	X	519	31.728	22.999	29.443	0.00	0.00
ATOM	7920	C	GLY	X	519	32.594	24.261	30.999	0.00	0.00
ATOM	7921	O	GLY	X	519	33.038	23.348	31.599	0.00	0.00
ATOM	7922	N	LEU	X	520	32.707	25.519	31.410	0.00	0.00
ATOM	7923	H	LEU	X	520	32.047	26.122	30.941	0.00	0.00
ATOM	7924	CA	LEU	X	520	33.741	26.052	32.306	0.00	0.00
ATOM	7925	HA	LEU	X	520	34.632	26.161	31.688	0.00	0.00
ATOM	7926	CB	LEU	X	520	33.334	27.457	32.740	0.00	0.00
ATOM	7927	HB2	LEU	X	520	33.165	27.975	31.795	0.00	0.00
ATOM	7928	HB3	LEU	X	520	32.397	27.323	33.281	0.00	0.00
ATOM	7929	CG	LEU	X	520	34.344	28.244	33.567	0.00	0.00
ATOM	7930	HG	LEU	X	520	34.633	27.715	34.476	0.00	0.00
ATOM	7931	CD1	LEU	X	520	35.565	28.662	32.667	0.00	0.00
ATOM	7932	HD11	LEU	X	520	35.152	29.151	31.785	0.00	0.00
ATOM	7933	HD12	LEU	X	520	36.275	29.317	33.171	0.00	0.00
ATOM	7934	HD13	LEU	X	520	36.091	27.760	32.354	0.00	0.00
ATOM	7935	CD2	LEU	X	520	33.663	29.529	33.989	0.00	0.00
ATOM	7936	HD21	LEU	X	520	33.392	30.214	33.185	0.00	0.00
ATOM	7937	HD22	LEU	X	520	32.738	29.251	34.494	0.00	0.00
ATOM	7938	HD23	LEU	X	520	34.243	30.056	34.747	0.00	0.00
ATOM	7939	C	LEU	X	520	34.044	25.159	33.554	0.00	0.00
ATOM	7940	O	LEU	X	520	33.382	25.249	34.604	0.00	0.00
ATOM	7941	N	ARG	X	521	35.033	24.283	33.488	0.00	0.00
ATOM	7942	H	ARG	X	521	35.508	24.236	32.597	0.00	0.00
ATOM	7943	CA	ARG	X	521	35.602	23.601	34.654	0.00	0.00
ATOM	7944	HA	ARG	X	521	36.445	23.063	34.221	0.00	0.00
ATOM	7945	CB	ARG	X	521	35.961	24.622	35.729	0.00	0.00
ATOM	7946	HB2	ARG	X	521	36.076	25.630	35.333	0.00	0.00
ATOM	7947	HB3	ARG	X	521	35.164	24.801	36.451	0.00	0.00
ATOM	7948	CG	ARG	X	521	37.248	24.273	36.499	0.00	0.00
ATOM	7949	HG2	ARG	X	521	37.359	24.841	37.423	0.00	0.00

ATOM	7950	HG3	ARG	X	521	37.322	23.210	36.727	0.00	0.00
ATOM	7951	CD	ARG	X	521	38.367	24.596	35.569	0.00	0.00
ATOM	7952	HD2	ARG	X	521	38.253	24.184	34.566	0.00	0.00
ATOM	7953	HD3	ARG	X	521	38.431	25.678	35.454	0.00	0.00
ATOM	7954	NE	ARG	X	521	39.587	24.058	36.134	0.00	0.00
ATOM	7955	HE	ARG	X	521	39.631	24.143	37.139	0.00	0.00
ATOM	7956	CZ	ARG	X	521	40.701	23.997	35.509	0.00	0.00
ATOM	7957	NH1	ARG	X	521	40.857	24.180	34.212	0.00	0.00
ATOM	7958	HH11	ARG	X	521	40.105	24.325	33.554	0.00	0.00
ATOM	7959	HH12	ARG	X	521	41.793	24.103	33.840	0.00	0.00
ATOM	7960	NH2	ARG	X	521	41.757	23.800	36.252	0.00	0.00
ATOM	7961	HH21	ARG	X	521	41.691	23.800	37.260	0.00	0.00
ATOM	7962	HH22	ARG	X	521	42.667	23.762	35.815	0.00	0.00
ATOM	7963	C	ARG	X	521	34.616	22.608	35.291	0.00	0.00
ATOM	7964	O	ARG	X	521	34.782	22.138	36.435	0.00	0.00
ATOM	7965	N	ALA	X	522	33.542	22.234	34.619	0.00	0.00
ATOM	7966	H	ALA	X	522	33.477	22.412	33.627	0.00	0.00
ATOM	7967	CA	ALA	X	522	32.413	21.437	35.146	0.00	0.00
ATOM	7968	HA	ALA	X	522	32.012	21.933	36.030	0.00	0.00
ATOM	7969	CB	ALA	X	522	31.311	21.386	34.161	0.00	0.00
ATOM	7970	HB1	ALA	X	522	30.745	22.317	34.154	0.00	0.00
ATOM	7971	HB2	ALA	X	522	31.772	21.396	33.173	0.00	0.00
ATOM	7972	HB3	ALA	X	522	30.630	20.578	34.427	0.00	0.00
ATOM	7973	C	ALA	X	522	32.893	19.996	35.560	0.00	0.00
ATOM	7974	O	ALA	X	522	32.331	19.431	36.496	0.00	0.00
ATOM	7975	N	GLN	X	523	33.939	19.437	34.980	0.00	0.00
ATOM	7976	H	GLN	X	523	34.399	20.001	34.280	0.00	0.00
ATOM	7977	CA	GLN	X	523	34.475	18.116	35.306	0.00	0.00
ATOM	7978	HA	GLN	X	523	33.595	17.569	35.643	0.00	0.00
ATOM	7979	CB	GLN	X	523	35.069	17.415	34.051	0.00	0.00
ATOM	7980	HB2	GLN	X	523	35.886	18.067	33.744	0.00	0.00
ATOM	7981	HB3	GLN	X	523	35.505	16.451	34.315	0.00	0.00
ATOM	7982	CG	GLN	X	523	34.118	17.103	32.937	0.00	0.00
ATOM	7983	HG2	GLN	X	523	34.084	17.983	32.294	0.00	0.00
ATOM	7984	HG3	GLN	X	523	34.518	16.324	32.288	0.00	0.00
ATOM	7985	CD	GLN	X	523	32.782	16.623	33.472	0.00	0.00
ATOM	7986	OE1	GLN	X	523	31.866	17.437	33.666	0.00	0.00
ATOM	7987	NE2	GLN	X	523	32.554	15.354	33.715	0.00	0.00
ATOM	7988	HE21	GLN	X	523	31.703	15.099	34.195	0.00	0.00
ATOM	7989	HE22	GLN	X	523	33.230	14.619	33.563	0.00	0.00
ATOM	7990	C	GLN	X	523	35.509	18.120	36.459	0.00	0.00
ATOM	7991	O	GLN	X	523	35.954	17.060	36.953	0.00	0.00
ATOM	7992	N	ALA	X	524	35.763	19.246	37.068	0.00	0.00
ATOM	7993	H	ALA	X	524	35.161	19.994	36.752	0.00	0.00
ATOM	7994	CA	ALA	X	524	36.407	19.379	38.428	0.00	0.00
ATOM	7995	HA	ALA	X	524	36.759	18.406	38.771	0.00	0.00
ATOM	7996	CB	ALA	X	524	37.580	20.426	38.290	0.00	0.00
ATOM	7997	HB1	ALA	X	524	38.420	20.126	38.916	0.00	0.00
ATOM	7998	HB2	ALA	X	524	37.938	20.441	37.260	0.00	0.00
ATOM	7999	HB3	ALA	X	524	37.240	21.460	38.352	0.00	0.00
ATOM	8000	C	ALA	X	524	35.426	19.869	39.402	0.00	0.00
ATOM	8001	O	ALA	X	524	35.236	19.262	40.482	0.00	0.00
ATOM	8002	N	CYX	X	525	34.735	20.974	39.139	0.00	0.00
ATOM	8003	H	CYX	X	525	34.911	21.414	38.247	0.00	0.00
ATOM	8004	CA	CYX	X	525	33.827	21.531	40.207	0.00	0.00
ATOM	8005	HA	CYX	X	525	34.469	21.532	41.089	0.00	0.00
ATOM	8006	CB	CYX	X	525	33.360	22.824	39.642	0.00	0.00
ATOM	8007	HB2	CYX	X	525	32.605	22.616	38.883	0.00	0.00
ATOM	8008	HB3	CYX	X	525	32.821	23.305	40.459	0.00	0.00
ATOM	8009	SG	CYX	X	525	34.605	23.957	38.941	0.00	0.00
ATOM	8010	C	CYX	X	525	32.673	20.577	40.587	0.00	0.00
ATOM	8011	O	CYX	X	525	32.276	20.659	41.704	0.00	0.00
ATOM	8012	N	ALA	X	526	32.189	19.687	39.706	0.00	0.00
ATOM	8013	H	ALA	X	526	32.551	19.743	38.765	0.00	0.00
ATOM	8014	CA	ALA	X	526	31.221	18.586	40.088	0.00	0.00
ATOM	8015	HA	ALA	X	526	30.324	18.977	40.569	0.00	0.00
ATOM	8016	CB	ALA	X	526	30.701	18.042	38.759	0.00	0.00
ATOM	8017	HB1	ALA	X	526	29.931	18.678	38.324	0.00	0.00
ATOM	8018	HB2	ALA	X	526	31.531	17.816	38.089	0.00	0.00
ATOM	8019	HB3	ALA	X	526	30.112	17.149	38.967	0.00	0.00

ATOM	8020	C	ALA	X	526	31.824	17.599	41.109	0.00	0.00
ATOM	8021	O	ALA	X	526	31.197	17.529	42.193	0.00	0.00
ATOM	8022	N	PHE	X	527	32.972	17.079	40.921	0.00	0.00
ATOM	8023	H	PHE	X	527	33.441	17.103	40.027	0.00	0.00
ATOM	8024	CA	PHE	X	527	33.663	16.291	41.964	0.00	0.00
ATOM	8025	HA	PHE	X	527	33.167	15.329	42.100	0.00	0.00
ATOM	8026	CB	PHE	X	527	35.132	15.975	41.414	0.00	0.00
ATOM	8027	HB2	PHE	X	527	35.069	15.117	40.746	0.00	0.00
ATOM	8028	HB3	PHE	X	527	35.459	16.847	40.847	0.00	0.00
ATOM	8029	CG	PHE	X	527	36.217	15.593	42.451	0.00	0.00
ATOM	8030	CD1	PHE	X	527	36.142	14.324	43.074	0.00	0.00
ATOM	8031	HD1	PHE	X	527	35.432	13.622	42.661	0.00	0.00
ATOM	8032	CE1	PHE	X	527	36.998	13.984	44.164	0.00	0.00
ATOM	8033	HE1	PHE	X	527	36.771	13.065	44.683	0.00	0.00
ATOM	8034	CZ	PHE	X	527	37.775	14.986	44.717	0.00	0.00
ATOM	8035	HZ	PHE	X	527	38.205	14.865	45.700	0.00	0.00
ATOM	8036	CE2	PHE	X	527	37.920	16.229	44.028	0.00	0.00
ATOM	8037	HE2	PHE	X	527	38.557	16.952	44.518	0.00	0.00
ATOM	8038	CD2	PHE	X	527	37.138	16.523	42.931	0.00	0.00
ATOM	8039	HD2	PHE	X	527	37.186	17.521	42.521	0.00	0.00
ATOM	8040	C	PHE	X	527	33.781	17.045	43.318	0.00	0.00
ATOM	8041	O	PHE	X	527	33.182	16.515	44.293	0.00	0.00
ATOM	8042	N	TRP	X	528	34.359	18.288	43.353	0.00	0.00
ATOM	8043	H	TRP	X	528	34.743	18.617	42.478	0.00	0.00
ATOM	8044	CA	TRP	X	528	34.469	19.164	44.539	0.00	0.00
ATOM	8045	HA	TRP	X	528	35.162	18.748	45.270	0.00	0.00
ATOM	8046	CB	TRP	X	528	34.932	20.563	44.166	0.00	0.00
ATOM	8047	HB2	TRP	X	528	34.440	20.743	43.211	0.00	0.00
ATOM	8048	HB3	TRP	X	528	34.821	21.327	44.936	0.00	0.00
ATOM	8049	CG	TRP	X	528	36.461	20.683	43.983	0.00	0.00
ATOM	8050	CD1	TRP	X	528	37.067	21.122	42.832	0.00	0.00
ATOM	8051	HD1	TRP	X	528	36.646	21.533	41.926	0.00	0.00
ATOM	8052	NE1	TRP	X	528	38.425	21.073	43.017	0.00	0.00
ATOM	8053	HE1	TRP	X	528	39.096	21.211	42.275	0.00	0.00
ATOM	8054	CE2	TRP	X	528	38.781	20.666	44.264	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	40.018	20.486	44.946	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	40.947	20.470	44.395	0.00	0.00
ATOM	8057	CH2	TRP	X	528	39.993	20.119	46.325	0.00	0.00
ATOM	8058	HH2	TRP	X	528	40.964	19.929	46.759	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	38.759	20.025	47.005	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	38.784	19.686	48.030	0.00	0.00
ATOM	8061	CE3	TRP	X	528	37.565	20.148	46.338	0.00	0.00
ATOM	8062	HE3	TRP	X	528	36.690	19.898	46.919	0.00	0.00
ATOM	8063	CD2	TRP	X	528	37.498	20.432	44.942	0.00	0.00
ATOM	8064	C	TRP	X	528	33.060	19.256	45.201	0.00	0.00
ATOM	8065	O	TRP	X	528	32.989	19.120	46.412	0.00	0.00
ATOM	8066	N	ASN	X	529	31.992	19.508	44.533	0.00	0.00
ATOM	8067	H	ASN	X	529	32.044	19.760	43.556	0.00	0.00
ATOM	8068	CA	ASN	X	529	30.634	19.583	45.083	0.00	0.00
ATOM	8069	HA	ASN	X	529	30.579	20.289	45.911	0.00	0.00
ATOM	8070	CB	ASN	X	529	29.645	20.185	44.121	0.00	0.00
ATOM	8071	HB2	ASN	X	529	30.020	21.146	43.767	0.00	0.00
ATOM	8072	HB3	ASN	X	529	29.515	19.517	43.270	0.00	0.00
ATOM	8073	CG	ASN	X	529	28.248	20.319	44.677	0.00	0.00
ATOM	8074	OD1	ASN	X	529	27.552	19.308	44.766	0.00	0.00
ATOM	8075	ND2	ASN	X	529	27.898	21.363	45.298	0.00	0.00
ATOM	8076	HD21	ASN	X	529	27.046	21.291	45.836	0.00	0.00
ATOM	8077	HD22	ASN	X	529	28.360	22.256	45.208	0.00	0.00
ATOM	8078	C	ASN	X	529	30.073	18.209	45.532	0.00	0.00
ATOM	8079	O	ASN	X	529	29.581	18.112	46.661	0.00	0.00
ATOM	8080	N	ARG	X	530	30.060	17.146	44.679	0.00	0.00
ATOM	8081	H	ARG	X	530	30.578	17.271	43.821	0.00	0.00
ATOM	8082	CA	ARG	X	530	29.080	15.992	44.761	0.00	0.00
ATOM	8083	HA	ARG	X	530	28.142	16.403	45.136	0.00	0.00
ATOM	8084	CB	ARG	X	530	28.734	15.314	43.418	0.00	0.00
ATOM	8085	HB2	ARG	X	530	29.691	15.123	42.933	0.00	0.00
ATOM	8086	HB3	ARG	X	530	28.093	14.474	43.685	0.00	0.00
ATOM	8087	CG	ARG	X	530	27.867	16.111	42.434	0.00	0.00
ATOM	8088	HG2	ARG	X	530	28.269	17.119	42.328	0.00	0.00
ATOM	8089	HG3	ARG	X	530	27.949	15.625	41.462	0.00	0.00

ATOM	8090	CD	ARG	X	530	26.390	16.120	43.032	0.00	0.00
ATOM	8091	HD2	ARG	X	530	25.724	16.250	42.179	0.00	0.00
ATOM	8092	HD3	ARG	X	530	26.142	15.121	43.390	0.00	0.00
ATOM	8093	NE	ARG	X	530	26.059	17.165	44.050	0.00	0.00
ATOM	8094	HE	ARG	X	530	26.574	18.033	44.089	0.00	0.00
ATOM	8095	CZ	ARG	X	530	24.923	17.384	44.687	0.00	0.00
ATOM	8096	NH1	ARG	X	530	23.824	16.626	44.546	0.00	0.00
ATOM	8097	HH11	ARG	X	530	23.856	15.861	43.888	0.00	0.00
ATOM	8098	HH12	ARG	X	530	22.986	16.742	45.098	0.00	0.00
ATOM	8099	NH2	ARG	X	530	24.746	18.494	45.348	0.00	0.00
ATOM	8100	HH21	ARG	X	530	25.599	19.027	45.444	0.00	0.00
ATOM	8101	HH22	ARG	X	530	23.809	18.848	45.478	0.00	0.00
ATOM	8102	C	ARG	X	530	29.693	15.015	45.835	0.00	0.00
ATOM	8103	O	ARG	X	530	29.117	14.754	46.910	0.00	0.00
ATOM	8104	N	PHE	X	531	30.877	14.461	45.530	0.00	0.00
ATOM	8105	H	PHE	X	531	31.173	14.559	44.569	0.00	0.00
ATOM	8106	CA	PHE	X	531	31.412	13.254	46.177	0.00	0.00
ATOM	8107	HA	PHE	X	531	30.574	12.593	46.399	0.00	0.00
ATOM	8108	CB	PHE	X	531	32.281	12.468	45.155	0.00	0.00
ATOM	8109	HB2	PHE	X	531	31.557	11.933	44.539	0.00	0.00
ATOM	8110	HB3	PHE	X	531	32.801	13.146	44.479	0.00	0.00
ATOM	8111	CG	PHE	X	531	33.231	11.497	45.730	0.00	0.00
ATOM	8112	CD1	PHE	X	531	32.798	10.321	46.284	0.00	0.00
ATOM	8113	HD1	PHE	X	531	31.813	9.933	46.074	0.00	0.00
ATOM	8114	CE1	PHE	X	531	33.729	9.605	47.069	0.00	0.00
ATOM	8115	HE1	PHE	X	531	33.533	8.619	47.463	0.00	0.00
ATOM	8116	CZ	PHE	X	531	34.973	10.080	47.427	0.00	0.00
ATOM	8117	HZ	PHE	X	531	35.659	9.495	48.022	0.00	0.00
ATOM	8118	CE2	PHE	X	531	35.409	11.295	46.879	0.00	0.00
ATOM	8119	HE2	PHE	X	531	36.343	11.758	47.160	0.00	0.00
ATOM	8120	CD2	PHE	X	531	34.554	11.957	45.994	0.00	0.00
ATOM	8121	HD2	PHE	X	531	34.815	12.951	45.661	0.00	0.00
ATOM	8122	C	PHE	X	531	32.232	13.556	47.396	0.00	0.00
ATOM	8123	O	PHE	X	531	32.319	12.810	48.415	0.00	0.00
ATOM	8124	N	LEU	X	532	32.919	14.724	47.397	0.00	0.00
ATOM	8125	H	LEU	X	532	32.885	15.339	46.596	0.00	0.00
ATOM	8126	CA	LEU	X	532	33.902	15.143	48.435	0.00	0.00
ATOM	8127	HA	LEU	X	532	34.640	14.346	48.522	0.00	0.00
ATOM	8128	CB	LEU	X	532	34.684	16.298	47.953	0.00	0.00
ATOM	8129	HB2	LEU	X	532	35.071	15.947	46.996	0.00	0.00
ATOM	8130	HB3	LEU	X	532	34.109	17.196	47.727	0.00	0.00
ATOM	8131	CG	LEU	X	532	35.844	16.958	48.768	0.00	0.00
ATOM	8132	HG	LEU	X	532	36.278	17.808	48.241	0.00	0.00
ATOM	8133	CD1	LEU	X	532	35.392	17.499	50.126	0.00	0.00
ATOM	8134	HD11	LEU	X	532	34.399	17.919	49.968	0.00	0.00
ATOM	8135	HD12	LEU	X	532	35.409	16.640	50.797	0.00	0.00
ATOM	8136	HD13	LEU	X	532	36.152	18.233	50.393	0.00	0.00
ATOM	8137	CD2	LEU	X	532	36.942	15.869	49.013	0.00	0.00
ATOM	8138	HD21	LEU	X	532	36.737	15.252	49.889	0.00	0.00
ATOM	8139	HD22	LEU	X	532	37.190	15.231	48.164	0.00	0.00
ATOM	8140	HD23	LEU	X	532	37.868	16.368	49.299	0.00	0.00
ATOM	8141	C	LEU	X	532	33.294	15.356	49.872	0.00	0.00
ATOM	8142	O	LEU	X	532	33.815	14.698	50.785	0.00	0.00
ATOM	8143	N	PRO	X	533	32.256	16.156	50.131	0.00	0.00
ATOM	8144	CD	PRO	X	533	31.539	17.041	49.239	0.00	0.00
ATOM	8145	HD2	PRO	X	533	31.241	16.501	48.340	0.00	0.00
ATOM	8146	HD3	PRO	X	533	32.170	17.827	48.823	0.00	0.00
ATOM	8147	CG	PRO	X	533	30.249	17.529	50.000	0.00	0.00
ATOM	8148	HG2	PRO	X	533	29.460	16.788	49.868	0.00	0.00
ATOM	8149	HG3	PRO	X	533	29.872	18.493	49.659	0.00	0.00
ATOM	8150	CB	PRO	X	533	30.776	17.546	51.417	0.00	0.00
ATOM	8151	HB2	PRO	X	533	29.938	17.430	52.104	0.00	0.00
ATOM	8152	HB3	PRO	X	533	31.322	18.480	51.552	0.00	0.00
ATOM	8153	CA	PRO	X	533	31.630	16.282	51.476	0.00	0.00
ATOM	8154	HA	PRO	X	533	32.423	16.458	52.203	0.00	0.00
ATOM	8155	C	PRO	X	533	30.890	14.990	51.860	0.00	0.00
ATOM	8156	O	PRO	X	533	30.836	14.722	53.069	0.00	0.00
ATOM	8157	N	LYS	X	534	30.468	14.180	50.885	0.00	0.00
ATOM	8158	H	LYS	X	534	30.447	14.581	49.958	0.00	0.00
ATOM	8159	CA	LYS	X	534	29.633	13.015	51.178	0.00	0.00

ATOM	8160	HA	LYS	X	534	28.851	13.306	51.880	0.00	0.00
ATOM	8161	CB	LYS	X	534	29.007	12.426	49.843	0.00	0.00
ATOM	8162	HB2	LYS	X	534	28.654	13.242	49.213	0.00	0.00
ATOM	8163	HB3	LYS	X	534	29.827	11.924	49.329	0.00	0.00
ATOM	8164	CG	LYS	X	534	27.899	11.449	50.228	0.00	0.00
ATOM	8165	HG2	LYS	X	534	28.376	10.574	50.670	0.00	0.00
ATOM	8166	HG3	LYS	X	534	27.251	11.872	50.996	0.00	0.00
ATOM	8167	CD	LYS	X	534	27.100	11.121	48.970	0.00	0.00
ATOM	8168	HD2	LYS	X	534	27.843	10.850	48.220	0.00	0.00
ATOM	8169	HD3	LYS	X	534	26.511	10.276	49.328	0.00	0.00
ATOM	8170	CE	LYS	X	534	26.233	12.307	48.482	0.00	0.00
ATOM	8171	HE2	LYS	X	534	26.811	13.224	48.365	0.00	0.00
ATOM	8172	HE3	LYS	X	534	25.818	11.925	47.549	0.00	0.00
ATOM	8173	NZ	LYS	X	534	25.150	12.506	49.437	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	25.495	12.336	50.371	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	24.697	13.399	49.305	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	24.391	11.848	49.337	0.00	0.00
ATOM	8177	C	LYS	X	534	30.520	11.934	51.793	0.00	0.00
ATOM	8178	O	LYS	X	534	30.057	11.327	52.758	0.00	0.00
ATOM	8179	N	LEU	X	535	31.744	11.770	51.324	0.00	0.00
ATOM	8180	H	LEU	X	535	32.099	12.474	50.694	0.00	0.00
ATOM	8181	CA	LEU	X	535	32.724	10.840	51.767	0.00	0.00
ATOM	8182	HA	LEU	X	535	32.341	9.846	51.536	0.00	0.00
ATOM	8183	CB	LEU	X	535	34.089	11.143	51.096	0.00	0.00
ATOM	8184	HB2	LEU	X	535	33.780	11.040	50.056	0.00	0.00
ATOM	8185	HB3	LEU	X	535	34.324	12.193	51.269	0.00	0.00
ATOM	8186	CG	LEU	X	535	35.167	10.271	51.617	0.00	0.00
ATOM	8187	HG	LEU	X	535	35.241	10.423	52.694	0.00	0.00
ATOM	8188	CD1	LEU	X	535	34.834	8.718	51.331	0.00	0.00
ATOM	8189	HD11	LEU	X	535	34.033	8.405	52.002	0.00	0.00
ATOM	8190	HD12	LEU	X	535	34.574	8.405	50.320	0.00	0.00
ATOM	8191	HD13	LEU	X	535	35.817	8.263	51.446	0.00	0.00
ATOM	8192	CD2	LEU	X	535	36.501	10.690	50.956	0.00	0.00
ATOM	8193	HD21	LEU	X	535	37.310	10.035	51.281	0.00	0.00
ATOM	8194	HD22	LEU	X	535	36.415	10.619	49.872	0.00	0.00
ATOM	8195	HD23	LEU	X	535	36.634	11.731	51.251	0.00	0.00
ATOM	8196	C	LEU	X	535	32.823	10.975	53.270	0.00	0.00
ATOM	8197	O	LEU	X	535	32.746	9.992	53.962	0.00	0.00
ATOM	8198	N	LEU	X	536	33.037	12.180	53.809	0.00	0.00
ATOM	8199	H	LEU	X	536	32.843	12.966	53.205	0.00	0.00
ATOM	8200	CA	LEU	X	536	33.219	12.324	55.297	0.00	0.00
ATOM	8201	HA	LEU	X	536	33.857	11.507	55.632	0.00	0.00
ATOM	8202	CB	LEU	X	536	33.863	13.723	55.591	0.00	0.00
ATOM	8203	HB2	LEU	X	536	32.991	14.341	55.380	0.00	0.00
ATOM	8204	HB3	LEU	X	536	34.062	13.795	56.660	0.00	0.00
ATOM	8205	CG	LEU	X	536	35.091	14.097	54.802	0.00	0.00
ATOM	8206	HG	LEU	X	536	34.737	14.230	53.780	0.00	0.00
ATOM	8207	CD1	LEU	X	536	35.478	15.495	55.209	0.00	0.00
ATOM	8208	HD11	LEU	X	536	35.828	15.463	56.241	0.00	0.00
ATOM	8209	HD12	LEU	X	536	36.304	15.828	54.581	0.00	0.00
ATOM	8210	HD13	LEU	X	536	34.623	16.153	55.057	0.00	0.00
ATOM	8211	CD2	LEU	X	536	36.127	13.044	54.905	0.00	0.00
ATOM	8212	HD21	LEU	X	536	36.059	12.494	55.843	0.00	0.00
ATOM	8213	HD22	LEU	X	536	35.870	12.406	54.059	0.00	0.00
ATOM	8214	HD23	LEU	X	536	37.102	13.525	54.820	0.00	0.00
ATOM	8215	C	LEU	X	536	31.983	12.152	56.108	0.00	0.00
ATOM	8216	O	LEU	X	536	32.027	11.793	57.282	0.00	0.00
ATOM	8217	N	SER	X	537	30.774	12.519	55.624	0.00	0.00
ATOM	8218	H	SER	X	537	30.693	12.894	54.690	0.00	0.00
ATOM	8219	CA	SER	X	537	29.520	12.292	56.351	0.00	0.00
ATOM	8220	HA	SER	X	537	29.587	12.687	57.365	0.00	0.00
ATOM	8221	CB	SER	X	537	28.276	12.998	55.695	0.00	0.00
ATOM	8222	HB2	SER	X	537	27.332	12.456	55.741	0.00	0.00
ATOM	8223	HB3	SER	X	537	28.138	13.960	56.189	0.00	0.00
ATOM	8224	OG	SER	X	537	28.485	13.236	54.312	0.00	0.00
ATOM	8225	HG	SER	X	537	27.801	13.851	54.038	0.00	0.00
ATOM	8226	C	SER	X	537	29.183	10.825	56.564	0.00	0.00
ATOM	8227	O	SER	X	537	28.785	10.431	57.644	0.00	0.00
ATOM	8228	N	ALA	X	538	29.718	9.945	55.645	0.00	0.00
ATOM	8229	H	ALA	X	538	30.112	10.363	54.814	0.00	0.00

ATOM	8230	CA	ALA	X	538	29.556	8.503	55.658	0.00	0.00
ATOM	8231	HA	ALA	X	538	28.750	8.232	56.340	0.00	0.00
ATOM	8232	CB	ALA	X	538	29.258	8.076	54.251	0.00	0.00
ATOM	8233	HB1	ALA	X	538	29.111	7.000	54.164	0.00	0.00
ATOM	8234	HB2	ALA	X	538	28.417	8.658	53.873	0.00	0.00
ATOM	8235	HB3	ALA	X	538	30.127	8.392	53.672	0.00	0.00
ATOM	8236	C	ALA	X	538	30.808	7.759	56.268	0.00	0.00
ATOM	8237	O	ALA	X	538	30.821	6.548	56.187	0.00	0.00
ATOM	8238	N	THR	X	539	31.807	8.476	56.817	0.00	0.00
ATOM	8239	H	THR	X	539	31.705	9.480	56.832	0.00	0.00
ATOM	8240	CA	THR	X	539	33.098	7.800	57.225	0.00	0.00
ATOM	8241	HA	THR	X	539	33.270	6.786	56.867	0.00	0.00
ATOM	8242	CB	THR	X	539	34.338	8.722	56.958	0.00	0.00
ATOM	8243	HB	THR	X	539	34.043	9.764	57.084	0.00	0.00
ATOM	8244	CG2	THR	X	539	35.596	8.497	57.804	0.00	0.00
ATOM	8245	HG21	THR	X	539	36.284	9.293	57.522	0.00	0.00
ATOM	8246	HG22	THR	X	539	35.294	8.509	58.851	0.00	0.00
ATOM	8247	HG23	THR	X	539	36.002	7.525	57.524	0.00	0.00
ATOM	8248	OG1	THR	X	539	34.694	8.705	55.619	0.00	0.00
ATOM	8249	HG1	THR	X	539	34.046	9.235	55.150	0.00	0.00
ATOM	8250	C	THR	X	539	33.038	7.537	58.750	0.00	0.00
ATOM	8251	O	THR	X	539	32.735	6.350	59.054	0.00	0.00
ATOM	8252	OXT	THR	X	539	32.907	8.501	59.529	0.00	0.00
ATOM	8253	C	LIG	X	540	50.570	37.381	49.693	0.00	0.00
ATOM	8254	C1	LIG	X	540	50.244	37.150	50.986	0.00	0.00
ATOM	8255	C2	LIG	X	540	49.849	35.885	51.312	0.00	0.00
ATOM	8256	C3	LIG	X	540	49.910	34.827	50.432	0.00	0.00
ATOM	8257	C4	LIG	X	540	50.246	35.018	49.030	0.00	0.00
ATOM	8258	C5	LIG	X	540	50.578	36.365	48.714	0.00	0.00
ATOM	8259	C6	LIG	X	540	50.883	38.774	49.306	0.00	0.00
ATOM	8260	N	LIG	X	540	49.659	39.690	49.180	0.00	0.00
ATOM	8261	C7	LIG	X	540	50.034	40.950	48.525	0.00	0.00
ATOM	8262	C8	LIG	X	540	48.773	41.931	48.509	0.00	0.00
ATOM	8263	O	LIG	X	540	47.724	41.281	47.802	0.00	0.00
ATOM	8264	C9	LIG	X	540	47.335	39.958	48.374	0.00	0.00
ATOM	8265	C10	LIG	X	540	48.566	39.099	48.421	0.00	0.00
ATOM	8266	H	LIG	X	540	49.329	39.945	50.125	0.00	0.00
ATOM	8267	O1	LIG	X	540	49.519	35.665	52.602	0.00	0.00
ATOM	8268	C11	LIG	X	540	50.558	35.031	53.442	0.00	0.00
ATOM	8269	O2	LIG	X	540	49.610	33.604	50.856	0.00	0.00
ATOM	8270	H1	LIG	X	540	49.129	33.621	51.703	0.00	0.00
ATOM	8271	H2	LIG	X	540	50.188	37.985	51.680	0.00	0.00
ATOM	8272	H3	LIG	X	540	50.145	34.201	48.320	0.00	0.00
ATOM	8273	H4	LIG	X	540	50.794	36.585	47.672	0.00	0.00
ATOM	8274	H5	LIG	X	540	51.525	39.301	50.013	0.00	0.00
ATOM	8275	H6	LIG	X	540	51.495	38.806	48.404	0.00	0.00
ATOM	8276	H7	LIG	X	540	50.114	40.794	47.448	0.00	0.00
ATOM	8277	H8	LIG	X	540	50.919	41.362	49.012	0.00	0.00
ATOM	8278	H9	LIG	X	540	48.605	42.263	49.537	0.00	0.00
ATOM	8279	H10	LIG	X	540	49.057	42.843	47.978	0.00	0.00
ATOM	8280	H11	LIG	X	540	47.111	40.132	49.430	0.00	0.00
ATOM	8281	H12	LIG	X	540	46.503	39.633	47.744	0.00	0.00
ATOM	8282	H13	LIG	X	540	48.998	39.029	47.422	0.00	0.00
ATOM	8283	H14	LIG	X	540	48.376	38.087	48.781	0.00	0.00
ATOM	8284	H15	LIG	X	540	50.256	35.016	54.493	0.00	0.00
ATOM	8285	H16	LIG	X	540	51.489	35.601	53.395	0.00	0.00
ATOM	8286	H17	LIG	X	540	50.773	34.023	53.079	0.00	0.00
ATOM	8287	Na+	Na+	X	541	58.007	49.464	40.654	0.00	0.00
ATOM	8288	Na+	Na+	X	542	53.322	21.969	65.993	0.00	0.00
ATOM	8289	Na+	Na+	X	543	29.763	8.632	61.746	0.00	0.00
ATOM	8290	Na+	Na+	X	544	53.254	3.060	50.605	0.00	0.00
ATOM	8291	Na+	Na+	X	545	48.254	24.648	36.659	0.00	0.00
ATOM	8292	Na+	Na+	X	546	16.197	7.461	77.630	0.00	0.00
ATOM	8293	Na+	Na+	X	547	53.436	44.691	34.431	0.00	0.00

END

The following are coordinates for each of the aged AChE frames used in our computational protocol.

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1B41 Production MD Frame 0000

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CRYST1	86.314	86.314	86.314	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	22.176	40.204	12.337	0.00	0.00
ATOM	2	H1	ASP	X	1	21.550	40.487	11.596	0.00	0.00
ATOM	3	H2	ASP	X	1	21.665	39.839	13.128	0.00	0.00
ATOM	4	H3	ASP	X	1	22.639	39.441	11.864	0.00	0.00
ATOM	5	CA	ASP	X	1	23.176	41.225	12.674	0.00	0.00
ATOM	6	HA	ASP	X	1	23.864	40.730	13.359	0.00	0.00
ATOM	7	CB	ASP	X	1	23.958	41.716	11.513	0.00	0.00
ATOM	8	HB2	ASP	X	1	23.366	41.797	10.601	0.00	0.00
ATOM	9	HB3	ASP	X	1	24.456	42.656	11.751	0.00	0.00
ATOM	10	CG	ASP	X	1	24.999	40.698	11.057	0.00	0.00
ATOM	11	OD1	ASP	X	1	24.930	39.472	11.407	0.00	0.00
ATOM	12	OD2	ASP	X	1	25.956	41.207	10.422	0.00	0.00
ATOM	13	C	ASP	X	1	22.551	42.401	13.381	0.00	0.00
ATOM	14	O	ASP	X	1	23.297	43.108	14.066	0.00	0.00
ATOM	15	N	ALA	X	2	21.267	42.774	13.074	0.00	0.00
ATOM	16	H	ALA	X	2	20.757	42.233	12.391	0.00	0.00
ATOM	17	CA	ALA	X	2	20.729	44.120	13.425	0.00	0.00
ATOM	18	HA	ALA	X	2	21.285	44.823	12.806	0.00	0.00
ATOM	19	CB	ALA	X	2	19.227	44.238	12.993	0.00	0.00
ATOM	20	HB1	ALA	X	2	18.796	43.419	13.569	0.00	0.00
ATOM	21	HB2	ALA	X	2	19.046	44.073	11.931	0.00	0.00
ATOM	22	HB3	ALA	X	2	18.839	45.212	13.292	0.00	0.00
ATOM	23	C	ALA	X	2	20.942	44.620	14.878	0.00	0.00
ATOM	24	O	ALA	X	2	21.101	45.829	15.056	0.00	0.00
ATOM	25	N	GLU	X	3	21.166	43.713	15.874	0.00	0.00
ATOM	26	H	GLU	X	3	21.101	42.774	15.507	0.00	0.00
ATOM	27	CA	GLU	X	3	21.395	44.039	17.282	0.00	0.00
ATOM	28	HA	GLU	X	3	20.649	44.692	17.736	0.00	0.00
ATOM	29	CB	GLU	X	3	21.429	42.768	18.135	0.00	0.00
ATOM	30	HB2	GLU	X	3	22.290	42.117	17.978	0.00	0.00
ATOM	31	HB3	GLU	X	3	21.600	43.053	19.173	0.00	0.00
ATOM	32	CG	GLU	X	3	20.123	41.900	18.033	0.00	0.00
ATOM	33	HG2	GLU	X	3	19.245	42.540	17.951	0.00	0.00
ATOM	34	HG3	GLU	X	3	20.071	41.227	17.177	0.00	0.00
ATOM	35	CD	GLU	X	3	20.067	40.985	19.241	0.00	0.00
ATOM	36	OE1	GLU	X	3	21.104	40.571	19.827	0.00	0.00
ATOM	37	OE2	GLU	X	3	18.884	40.693	19.653	0.00	0.00
ATOM	38	C	GLU	X	3	22.679	44.773	17.578	0.00	0.00
ATOM	39	O	GLU	X	3	22.848	45.356	18.642	0.00	0.00
ATOM	40	N	LEU	X	4	23.707	44.646	16.739	0.00	0.00
ATOM	41	H	LEU	X	4	23.554	44.195	15.848	0.00	0.00
ATOM	42	CA	LEU	X	4	25.134	44.939	16.885	0.00	0.00
ATOM	43	HA	LEU	X	4	25.504	44.629	17.862	0.00	0.00
ATOM	44	CB	LEU	X	4	25.968	44.049	15.957	0.00	0.00
ATOM	45	HB2	LEU	X	4	25.714	44.306	14.929	0.00	0.00
ATOM	46	HB3	LEU	X	4	27.020	44.332	16.006	0.00	0.00
ATOM	47	CG	LEU	X	4	25.922	42.555	16.202	0.00	0.00
ATOM	48	HG	LEU	X	4	24.899	42.210	16.054	0.00	0.00
ATOM	49	CD1	LEU	X	4	26.764	41.856	15.094	0.00	0.00
ATOM	50	HD11	LEU	X	4	26.591	40.782	15.154	0.00	0.00
ATOM	51	HD12	LEU	X	4	27.822	42.115	15.083	0.00	0.00
ATOM	52	HD13	LEU	X	4	26.449	42.239	14.124	0.00	0.00
ATOM	53	CD2	LEU	X	4	26.336	42.152	17.623	0.00	0.00
ATOM	54	HD21	LEU	X	4	27.323	42.583	17.791	0.00	0.00
ATOM	55	HD22	LEU	X	4	25.610	42.536	18.340	0.00	0.00
ATOM	56	HD23	LEU	X	4	26.310	41.067	17.720	0.00	0.00
ATOM	57	C	LEU	X	4	25.444	46.417	16.828	0.00	0.00
ATOM	58	O	LEU	X	4	26.567	46.850	16.944	0.00	0.00
ATOM	59	N	LEU	X	5	24.427	47.266	16.745	0.00	0.00
ATOM	60	H	LEU	X	5	23.507	46.852	16.807	0.00	0.00
ATOM	61	CA	LEU	X	5	24.410	48.700	16.895	0.00	0.00
ATOM	62	HA	LEU	X	5	25.424	49.101	16.912	0.00	0.00
ATOM	63	CB	LEU	X	5	23.734	49.417	15.731	0.00	0.00
ATOM	64	HB2	LEU	X	5	22.665	49.209	15.771	0.00	0.00

ATOM	65	HB3	LEU	X	5	23.764	50.497	15.871	0.00	0.00
ATOM	66	CG	LEU	X	5	24.330	49.250	14.308	0.00	0.00
ATOM	67	HG	LEU	X	5	23.826	49.968	13.662	0.00	0.00
ATOM	68	CD1	LEU	X	5	25.812	49.622	14.174	0.00	0.00
ATOM	69	HD11	LEU	X	5	26.244	48.895	14.862	0.00	0.00
ATOM	70	HD12	LEU	X	5	26.002	50.583	14.652	0.00	0.00
ATOM	71	HD13	LEU	X	5	26.186	49.561	13.152	0.00	0.00
ATOM	72	CD2	LEU	X	5	24.008	47.910	13.635	0.00	0.00
ATOM	73	HD21	LEU	X	5	22.929	47.765	13.578	0.00	0.00
ATOM	74	HD22	LEU	X	5	24.238	47.972	12.571	0.00	0.00
ATOM	75	HD23	LEU	X	5	24.511	47.118	14.189	0.00	0.00
ATOM	76	C	LEU	X	5	23.722	49.053	18.217	0.00	0.00
ATOM	77	O	LEU	X	5	22.642	48.507	18.470	0.00	0.00
ATOM	78	N	VAL	X	6	24.285	49.936	19.004	0.00	0.00
ATOM	79	H	VAL	X	6	25.197	50.241	18.694	0.00	0.00
ATOM	80	CA	VAL	X	6	23.760	50.402	20.343	0.00	0.00
ATOM	81	HA	VAL	X	6	22.675	50.459	20.258	0.00	0.00
ATOM	82	CB	VAL	X	6	24.214	49.508	21.480	0.00	0.00
ATOM	83	HB	VAL	X	6	25.296	49.374	21.504	0.00	0.00
ATOM	84	CG1	VAL	X	6	23.860	50.056	22.896	0.00	0.00
ATOM	85	HG11	VAL	X	6	24.025	49.330	23.693	0.00	0.00
ATOM	86	HG12	VAL	X	6	24.377	50.988	23.120	0.00	0.00
ATOM	87	HG13	VAL	X	6	22.802	50.319	22.891	0.00	0.00
ATOM	88	CG2	VAL	X	6	23.664	48.154	21.438	0.00	0.00
ATOM	89	HG21	VAL	X	6	22.587	48.207	21.597	0.00	0.00
ATOM	90	HG22	VAL	X	6	24.047	47.487	22.210	0.00	0.00
ATOM	91	HG23	VAL	X	6	23.854	47.747	20.445	0.00	0.00
ATOM	92	C	VAL	X	6	24.186	51.837	20.499	0.00	0.00
ATOM	93	O	VAL	X	6	25.413	52.131	20.446	0.00	0.00
ATOM	94	N	THR	X	7	23.258	52.763	20.858	0.00	0.00
ATOM	95	H	THR	X	7	22.305	52.439	20.938	0.00	0.00
ATOM	96	CA	THR	X	7	23.601	54.164	21.307	0.00	0.00
ATOM	97	HA	THR	X	7	24.594	54.365	20.903	0.00	0.00
ATOM	98	CB	THR	X	7	22.603	55.222	20.738	0.00	0.00
ATOM	99	HB	THR	X	7	21.601	54.892	21.015	0.00	0.00
ATOM	100	CG2	THR	X	7	23.027	56.615	21.174	0.00	0.00
ATOM	101	HG21	THR	X	7	22.251	57.219	20.703	0.00	0.00
ATOM	102	HG22	THR	X	7	24.007	56.884	20.780	0.00	0.00
ATOM	103	HG23	THR	X	7	22.857	56.733	22.244	0.00	0.00
ATOM	104	OG1	THR	X	7	22.585	55.114	19.336	0.00	0.00
ATOM	105	HG1	THR	X	7	22.051	54.318	19.274	0.00	0.00
ATOM	106	C	THR	X	7	23.720	54.158	22.782	0.00	0.00
ATOM	107	O	THR	X	7	22.755	53.720	23.411	0.00	0.00
ATOM	108	N	VAL	X	8	24.844	54.544	23.392	0.00	0.00
ATOM	109	H	VAL	X	8	25.618	54.829	22.808	0.00	0.00
ATOM	110	CA	VAL	X	8	24.905	54.793	24.847	0.00	0.00
ATOM	111	HA	VAL	X	8	24.032	54.404	25.370	0.00	0.00
ATOM	112	CB	VAL	X	8	26.103	54.080	25.477	0.00	0.00
ATOM	113	HB	VAL	X	8	26.058	54.507	26.478	0.00	0.00
ATOM	114	CG1	VAL	X	8	25.946	52.579	25.468	0.00	0.00
ATOM	115	HG11	VAL	X	8	26.011	52.167	24.461	0.00	0.00
ATOM	116	HG12	VAL	X	8	26.822	52.161	25.964	0.00	0.00
ATOM	117	HG13	VAL	X	8	25.021	52.266	25.953	0.00	0.00
ATOM	118	CG2	VAL	X	8	27.459	54.578	24.865	0.00	0.00
ATOM	119	HG21	VAL	X	8	27.575	54.423	23.792	0.00	0.00
ATOM	120	HG22	VAL	X	8	28.273	54.076	25.388	0.00	0.00
ATOM	121	HG23	VAL	X	8	27.576	55.634	25.109	0.00	0.00
ATOM	122	C	VAL	X	8	24.842	56.318	25.142	0.00	0.00
ATOM	123	O	VAL	X	8	24.980	57.082	24.144	0.00	0.00
ATOM	124	N	ARG	X	9	24.863	56.793	26.386	0.00	0.00
ATOM	125	H	ARG	X	9	24.850	56.141	27.157	0.00	0.00
ATOM	126	CA	ARG	X	9	24.862	58.294	26.663	0.00	0.00
ATOM	127	HA	ARG	X	9	23.915	58.731	26.344	0.00	0.00
ATOM	128	CB	ARG	X	9	25.147	58.426	28.132	0.00	0.00
ATOM	129	HB2	ARG	X	9	24.344	57.810	28.536	0.00	0.00
ATOM	130	HB3	ARG	X	9	26.164	58.083	28.320	0.00	0.00
ATOM	131	CG	ARG	X	9	24.983	59.804	28.765	0.00	0.00

ATOM	132	HG2	ARG	X	9	25.387	59.817	29.778	0.00	0.00
ATOM	133	HG3	ARG	X	9	25.552	60.551	28.211	0.00	0.00
ATOM	134	CD	ARG	X	9	23.494	60.326	28.868	0.00	0.00
ATOM	135	HD2	ARG	X	9	23.436	61.365	29.194	0.00	0.00
ATOM	136	HD3	ARG	X	9	23.024	60.160	27.898	0.00	0.00
ATOM	137	NE	ARG	X	9	22.724	59.559	29.815	0.00	0.00
ATOM	138	HE	ARG	X	9	23.265	58.887	30.340	0.00	0.00
ATOM	139	CZ	ARG	X	9	21.511	59.870	30.332	0.00	0.00
ATOM	140	NH1	ARG	X	9	20.925	60.976	29.979	0.00	0.00
ATOM	141	HH11	ARG	X	9	21.373	61.699	29.434	0.00	0.00
ATOM	142	HH12	ARG	X	9	20.029	61.237	30.366	0.00	0.00
ATOM	143	NH2	ARG	X	9	20.965	59.188	31.294	0.00	0.00
ATOM	144	HH21	ARG	X	9	21.455	58.372	31.631	0.00	0.00
ATOM	145	HH22	ARG	X	9	20.032	59.379	31.630	0.00	0.00
ATOM	146	C	ARG	X	9	25.983	59.146	25.977	0.00	0.00
ATOM	147	O	ARG	X	9	25.782	60.295	25.631	0.00	0.00
ATOM	148	N	GLY	X	10	27.125	58.490	25.778	0.00	0.00
ATOM	149	H	GLY	X	10	27.258	57.576	26.188	0.00	0.00
ATOM	150	CA	GLY	X	10	28.274	59.141	25.104	0.00	0.00
ATOM	151	HA2	GLY	X	10	28.373	60.194	25.368	0.00	0.00
ATOM	152	HA3	GLY	X	10	29.187	58.571	25.273	0.00	0.00
ATOM	153	C	GLY	X	10	28.145	59.004	23.567	0.00	0.00
ATOM	154	O	GLY	X	10	28.967	59.676	22.888	0.00	0.00
ATOM	155	N	GLY	X	11	27.220	58.193	22.938	0.00	0.00
ATOM	156	H	GLY	X	11	26.606	57.685	23.559	0.00	0.00
ATOM	157	CA	GLY	X	11	27.173	58.040	21.496	0.00	0.00
ATOM	158	HA2	GLY	X	11	26.284	58.573	21.158	0.00	0.00
ATOM	159	HA3	GLY	X	11	27.970	58.571	20.976	0.00	0.00
ATOM	160	C	GLY	X	11	27.083	56.597	20.918	0.00	0.00
ATOM	161	O	GLY	X	11	26.624	55.678	21.563	0.00	0.00
ATOM	162	N	ARG	X	12	27.340	56.446	19.631	0.00	0.00
ATOM	163	H	ARG	X	12	27.620	57.253	19.092	0.00	0.00
ATOM	164	CA	ARG	X	12	27.063	55.234	18.817	0.00	0.00
ATOM	165	HA	ARG	X	12	26.226	54.668	19.228	0.00	0.00
ATOM	166	CB	ARG	X	12	26.681	55.638	17.357	0.00	0.00
ATOM	167	HB2	ARG	X	12	27.349	56.412	16.977	0.00	0.00
ATOM	168	HB3	ARG	X	12	26.708	54.696	16.810	0.00	0.00
ATOM	169	CG	ARG	X	12	25.301	56.265	17.259	0.00	0.00
ATOM	170	HG2	ARG	X	12	24.522	55.513	17.132	0.00	0.00
ATOM	171	HG3	ARG	X	12	25.127	56.749	18.220	0.00	0.00
ATOM	172	CD	ARG	X	12	25.192	57.289	16.133	0.00	0.00
ATOM	173	HD2	ARG	X	12	24.220	57.762	16.269	0.00	0.00
ATOM	174	HD3	ARG	X	12	25.914	58.099	16.232	0.00	0.00
ATOM	175	NE	ARG	X	12	25.274	56.737	14.794	0.00	0.00
ATOM	176	HE	ARG	X	12	25.381	55.734	14.741	0.00	0.00
ATOM	177	CZ	ARG	X	12	25.445	57.478	13.688	0.00	0.00
ATOM	178	NH1	ARG	X	12	25.288	58.826	13.673	0.00	0.00
ATOM	179	HH11	ARG	X	12	24.976	59.345	14.482	0.00	0.00
ATOM	180	HH12	ARG	X	12	25.448	59.229	12.761	0.00	0.00
ATOM	181	NH2	ARG	X	12	25.901	56.873	12.606	0.00	0.00
ATOM	182	HH21	ARG	X	12	26.115	55.886	12.611	0.00	0.00
ATOM	183	HH22	ARG	X	12	26.067	57.356	11.735	0.00	0.00
ATOM	184	C	ARG	X	12	28.183	54.276	18.937	0.00	0.00
ATOM	185	O	ARG	X	12	29.334	54.676	18.996	0.00	0.00
ATOM	186	N	LEU	X	13	27.855	53.011	18.975	0.00	0.00
ATOM	187	H	LEU	X	13	26.875	52.766	18.947	0.00	0.00
ATOM	188	CA	LEU	X	13	28.725	51.794	19.132	0.00	0.00
ATOM	189	HA	LEU	X	13	29.784	51.977	18.950	0.00	0.00
ATOM	190	CB	LEU	X	13	28.611	51.147	20.515	0.00	0.00
ATOM	191	HB2	LEU	X	13	27.575	50.830	20.638	0.00	0.00
ATOM	192	HB3	LEU	X	13	29.271	50.281	20.497	0.00	0.00
ATOM	193	CG	LEU	X	13	29.117	52.052	21.696	0.00	0.00
ATOM	194	HG	LEU	X	13	28.679	53.050	21.695	0.00	0.00
ATOM	195	CD1	LEU	X	13	28.811	51.393	23.066	0.00	0.00
ATOM	196	HD11	LEU	X	13	27.737	51.291	23.220	0.00	0.00
ATOM	197	HD12	LEU	X	13	29.191	52.003	23.886	0.00	0.00
ATOM	198	HD13	LEU	X	13	29.181	50.369	23.105	0.00	0.00

ATOM	199	CD2	LEU	X	13	30.659	52.279	21.625	0.00	0.00
ATOM	200	HD21	LEU	X	13	30.874	52.839	20.715	0.00	0.00
ATOM	201	HD22	LEU	X	13	31.044	52.834	22.481	0.00	0.00
ATOM	202	HD23	LEU	X	13	31.296	51.397	21.557	0.00	0.00
ATOM	203	C	LEU	X	13	28.343	50.680	18.188	0.00	0.00
ATOM	204	O	LEU	X	13	27.149	50.376	18.101	0.00	0.00
ATOM	205	N	ARG	X	14	29.360	50.172	17.446	0.00	0.00
ATOM	206	H	ARG	X	14	30.311	50.479	17.592	0.00	0.00
ATOM	207	CA	ARG	X	14	29.234	49.087	16.467	0.00	0.00
ATOM	208	HA	ARG	X	14	28.185	48.801	16.535	0.00	0.00
ATOM	209	CB	ARG	X	14	29.564	49.640	15.058	0.00	0.00
ATOM	210	HB2	ARG	X	14	28.834	50.446	14.982	0.00	0.00
ATOM	211	HB3	ARG	X	14	30.564	50.074	15.041	0.00	0.00
ATOM	212	CG	ARG	X	14	29.223	48.650	13.916	0.00	0.00
ATOM	213	HG2	ARG	X	14	28.665	47.796	14.300	0.00	0.00
ATOM	214	HG3	ARG	X	14	28.669	49.151	13.122	0.00	0.00
ATOM	215	CD	ARG	X	14	30.462	47.998	13.257	0.00	0.00
ATOM	216	HD2	ARG	X	14	30.908	47.290	13.955	0.00	0.00
ATOM	217	HD3	ARG	X	14	29.995	47.404	12.471	0.00	0.00
ATOM	218	NE	ARG	X	14	31.456	48.976	12.778	0.00	0.00
ATOM	219	HE	ARG	X	14	31.097	49.863	12.455	0.00	0.00
ATOM	220	CZ	ARG	X	14	32.760	48.885	13.038	0.00	0.00
ATOM	221	NH1	ARG	X	14	33.323	47.725	13.299	0.00	0.00
ATOM	222	HH11	ARG	X	14	32.775	46.917	13.040	0.00	0.00
ATOM	223	HH12	ARG	X	14	34.299	47.707	13.556	0.00	0.00
ATOM	224	NH2	ARG	X	14	33.559	49.925	12.985	0.00	0.00
ATOM	225	HH21	ARG	X	14	33.265	50.782	12.539	0.00	0.00
ATOM	226	HH22	ARG	X	14	34.564	49.875	13.067	0.00	0.00
ATOM	227	C	ARG	X	14	30.071	47.859	16.847	0.00	0.00
ATOM	228	O	ARG	X	14	31.289	47.915	16.814	0.00	0.00
ATOM	229	N	GLY	X	15	29.439	46.744	17.308	0.00	0.00
ATOM	230	H	GLY	X	15	28.434	46.644	17.337	0.00	0.00
ATOM	231	CA	GLY	X	15	30.099	45.527	17.866	0.00	0.00
ATOM	232	HA2	GLY	X	15	31.117	45.709	18.211	0.00	0.00
ATOM	233	HA3	GLY	X	15	29.615	45.281	18.811	0.00	0.00
ATOM	234	C	GLY	X	15	29.980	44.302	16.943	0.00	0.00
ATOM	235	O	GLY	X	15	30.027	44.471	15.706	0.00	0.00
ATOM	236	N	ILE	X	16	30.116	43.109	17.515	0.00	0.00
ATOM	237	H	ILE	X	16	30.071	43.147	18.524	0.00	0.00
ATOM	238	CA	ILE	X	16	30.246	41.780	16.911	0.00	0.00
ATOM	239	HA	ILE	X	16	29.865	41.917	15.899	0.00	0.00
ATOM	240	CB	ILE	X	16	31.684	41.222	16.879	0.00	0.00
ATOM	241	HB	ILE	X	16	31.635	40.183	16.554	0.00	0.00
ATOM	242	CG2	ILE	X	16	32.678	41.946	15.935	0.00	0.00
ATOM	243	HG21	ILE	X	16	32.919	42.924	16.351	0.00	0.00
ATOM	244	HG22	ILE	X	16	32.263	42.158	14.949	0.00	0.00
ATOM	245	HG23	ILE	X	16	33.610	41.406	15.769	0.00	0.00
ATOM	246	CG1	ILE	X	16	32.355	41.243	18.293	0.00	0.00
ATOM	247	HG12	ILE	X	16	32.509	42.243	18.699	0.00	0.00
ATOM	248	HG13	ILE	X	16	31.712	40.697	18.983	0.00	0.00
ATOM	249	CD1	ILE	X	16	33.632	40.418	18.351	0.00	0.00
ATOM	250	HD11	ILE	X	16	33.511	39.439	17.888	0.00	0.00
ATOM	251	HD12	ILE	X	16	33.994	40.230	19.361	0.00	0.00
ATOM	252	HD13	ILE	X	16	34.459	40.966	17.900	0.00	0.00
ATOM	253	C	ILE	X	16	29.310	40.806	17.540	0.00	0.00
ATOM	254	O	ILE	X	16	29.080	40.882	18.749	0.00	0.00
ATOM	255	N	ARG	X	17	28.866	39.808	16.764	0.00	0.00
ATOM	256	H	ARG	X	17	29.254	39.783	15.831	0.00	0.00
ATOM	257	CA	ARG	X	17	28.413	38.598	17.351	0.00	0.00
ATOM	258	HA	ARG	X	17	27.944	38.812	18.312	0.00	0.00
ATOM	259	CB	ARG	X	17	27.270	38.033	16.553	0.00	0.00
ATOM	260	HB2	ARG	X	17	26.784	37.316	17.214	0.00	0.00
ATOM	261	HB3	ARG	X	17	26.481	38.755	16.345	0.00	0.00
ATOM	262	CG	ARG	X	17	27.586	37.418	15.238	0.00	0.00
ATOM	263	HG2	ARG	X	17	27.949	38.186	14.556	0.00	0.00
ATOM	264	HG3	ARG	X	17	28.472	36.784	15.274	0.00	0.00
ATOM	265	CD	ARG	X	17	26.445	36.770	14.560	0.00	0.00

ATOM	266	HD2	ARG	X	17	26.103	35.966	15.213	0.00	0.00
ATOM	267	HD3	ARG	X	17	25.628	37.478	14.422	0.00	0.00
ATOM	268	NE	ARG	X	17	26.781	36.247	13.240	0.00	0.00
ATOM	269	HE	ARG	X	17	27.190	36.943	12.633	0.00	0.00
ATOM	270	CZ	ARG	X	17	26.475	35.101	12.689	0.00	0.00
ATOM	271	NH1	ARG	X	17	25.751	34.191	13.336	0.00	0.00
ATOM	272	HH11	ARG	X	17	25.190	34.379	14.154	0.00	0.00
ATOM	273	HH12	ARG	X	17	25.796	33.272	12.919	0.00	0.00
ATOM	274	NH2	ARG	X	17	26.881	34.866	11.493	0.00	0.00
ATOM	275	HH21	ARG	X	17	27.517	35.511	11.046	0.00	0.00
ATOM	276	HH22	ARG	X	17	26.690	34.034	10.953	0.00	0.00
ATOM	277	C	ARG	X	17	29.518	37.592	17.639	0.00	0.00
ATOM	278	O	ARG	X	17	30.274	37.322	16.697	0.00	0.00
ATOM	279	N	LEU	X	18	29.552	36.935	18.831	0.00	0.00
ATOM	280	H	LEU	X	18	28.933	37.294	19.544	0.00	0.00
ATOM	281	CA	LEU	X	18	30.375	35.864	19.207	0.00	0.00
ATOM	282	HA	LEU	X	18	31.234	35.834	18.537	0.00	0.00
ATOM	283	CB	LEU	X	18	30.956	36.003	20.670	0.00	0.00
ATOM	284	HB2	LEU	X	18	30.104	36.155	21.333	0.00	0.00
ATOM	285	HB3	LEU	X	18	31.537	35.152	21.025	0.00	0.00
ATOM	286	CG	LEU	X	18	31.782	37.229	20.844	0.00	0.00
ATOM	287	HG	LEU	X	18	31.338	38.162	20.496	0.00	0.00
ATOM	288	CD1	LEU	X	18	32.205	37.392	22.327	0.00	0.00
ATOM	289	HD11	LEU	X	18	31.284	37.481	22.903	0.00	0.00
ATOM	290	HD12	LEU	X	18	32.842	38.257	22.513	0.00	0.00
ATOM	291	HD13	LEU	X	18	32.786	36.525	22.641	0.00	0.00
ATOM	292	CD2	LEU	X	18	33.117	37.215	19.998	0.00	0.00
ATOM	293	HD21	LEU	X	18	32.870	37.333	18.943	0.00	0.00
ATOM	294	HD22	LEU	X	18	33.715	38.095	20.238	0.00	0.00
ATOM	295	HD23	LEU	X	18	33.728	36.323	20.133	0.00	0.00
ATOM	296	C	LEU	X	18	29.552	34.566	19.122	0.00	0.00
ATOM	297	O	LEU	X	18	28.419	34.504	19.415	0.00	0.00
ATOM	298	N	LYS	X	19	30.190	33.500	18.729	0.00	0.00
ATOM	299	H	LYS	X	19	31.185	33.583	18.573	0.00	0.00
ATOM	300	CA	LYS	X	19	29.560	32.135	18.540	0.00	0.00
ATOM	301	HA	LYS	X	19	28.484	32.282	18.626	0.00	0.00
ATOM	302	CB	LYS	X	19	29.895	31.455	17.212	0.00	0.00
ATOM	303	HB2	LYS	X	19	30.955	31.202	17.229	0.00	0.00
ATOM	304	HB3	LYS	X	19	29.192	30.686	16.891	0.00	0.00
ATOM	305	CG	LYS	X	19	29.778	32.469	16.028	0.00	0.00
ATOM	306	HG2	LYS	X	19	28.796	32.940	15.997	0.00	0.00
ATOM	307	HG3	LYS	X	19	30.513	33.262	16.165	0.00	0.00
ATOM	308	CD	LYS	X	19	29.951	31.866	14.635	0.00	0.00
ATOM	309	HD2	LYS	X	19	30.067	32.718	13.964	0.00	0.00
ATOM	310	HD3	LYS	X	19	30.779	31.160	14.587	0.00	0.00
ATOM	311	CE	LYS	X	19	28.625	31.135	14.200	0.00	0.00
ATOM	312	HE2	LYS	X	19	28.431	30.287	14.857	0.00	0.00
ATOM	313	HE3	LYS	X	19	27.819	31.859	14.317	0.00	0.00
ATOM	314	NZ	LYS	X	19	28.620	30.715	12.797	0.00	0.00
ATOM	315	HZ1	LYS	X	19	29.235	29.938	12.603	0.00	0.00
ATOM	316	HZ2	LYS	X	19	27.691	30.588	12.420	0.00	0.00
ATOM	317	HZ3	LYS	X	19	29.086	31.498	12.362	0.00	0.00
ATOM	318	C	LYS	X	19	30.040	31.222	19.700	0.00	0.00
ATOM	319	O	LYS	X	19	31.147	31.246	20.200	0.00	0.00
ATOM	320	N	THR	X	20	29.179	30.263	20.069	0.00	0.00
ATOM	321	H	THR	X	20	28.338	30.122	19.528	0.00	0.00
ATOM	322	CA	THR	X	20	29.431	29.297	21.174	0.00	0.00
ATOM	323	HA	THR	X	20	30.490	29.066	21.294	0.00	0.00
ATOM	324	CB	THR	X	20	28.980	29.929	22.519	0.00	0.00
ATOM	325	HB	THR	X	20	27.968	30.330	22.473	0.00	0.00
ATOM	326	CG2	THR	X	20	29.253	29.155	23.798	0.00	0.00
ATOM	327	HG21	THR	X	20	30.301	28.872	23.898	0.00	0.00
ATOM	328	HG22	THR	X	20	28.647	28.250	23.822	0.00	0.00
ATOM	329	HG23	THR	X	20	28.878	29.695	24.667	0.00	0.00
ATOM	330	OG1	THR	X	20	29.884	31.006	22.788	0.00	0.00
ATOM	331	HG1	THR	X	20	30.462	31.122	22.030	0.00	0.00
ATOM	332	C	THR	X	20	28.641	28.007	20.870	0.00	0.00

ATOM	333	O	THR	X	20	27.718	28.118	20.037	0.00	0.00
ATOM	334	N	PRO	X	21	28.939	26.817	21.479	0.00	0.00
ATOM	335	CD	PRO	X	21	30.233	26.470	22.147	0.00	0.00
ATOM	336	HD2	PRO	X	21	30.051	26.460	23.222	0.00	0.00
ATOM	337	HD3	PRO	X	21	31.067	27.134	21.921	0.00	0.00
ATOM	338	CG	PRO	X	21	30.563	25.055	21.794	0.00	0.00
ATOM	339	HG2	PRO	X	21	31.225	24.591	22.526	0.00	0.00
ATOM	340	HG3	PRO	X	21	31.109	25.126	20.853	0.00	0.00
ATOM	341	CB	PRO	X	21	29.169	24.473	21.799	0.00	0.00
ATOM	342	HB2	PRO	X	21	28.831	24.299	22.821	0.00	0.00
ATOM	343	HB3	PRO	X	21	29.185	23.566	21.195	0.00	0.00
ATOM	344	CA	PRO	X	21	28.319	25.546	21.094	0.00	0.00
ATOM	345	HA	PRO	X	21	28.556	25.395	20.040	0.00	0.00
ATOM	346	C	PRO	X	21	26.790	25.328	21.277	0.00	0.00
ATOM	347	O	PRO	X	21	26.297	24.202	21.024	0.00	0.00
ATOM	348	N	GLY	X	22	26.014	26.236	21.789	0.00	0.00
ATOM	349	H	GLY	X	22	26.509	27.075	22.058	0.00	0.00
ATOM	350	CA	GLY	X	22	24.545	26.239	21.691	0.00	0.00
ATOM	351	HA2	GLY	X	22	24.261	25.379	21.084	0.00	0.00
ATOM	352	HA3	GLY	X	22	24.012	26.350	22.635	0.00	0.00
ATOM	353	C	GLY	X	22	23.866	27.404	20.924	0.00	0.00
ATOM	354	O	GLY	X	22	22.660	27.298	20.680	0.00	0.00
ATOM	355	N	GLY	X	23	24.617	28.371	20.486	0.00	0.00
ATOM	356	H	GLY	X	23	25.605	28.329	20.695	0.00	0.00
ATOM	357	CA	GLY	X	23	24.210	29.613	19.812	0.00	0.00
ATOM	358	HA2	GLY	X	23	23.891	29.369	18.798	0.00	0.00
ATOM	359	HA3	GLY	X	23	23.294	29.933	20.308	0.00	0.00
ATOM	360	C	GLY	X	23	25.110	30.829	19.857	0.00	0.00
ATOM	361	O	GLY	X	23	26.278	30.710	20.220	0.00	0.00
ATOM	362	N	PRO	X	24	24.670	31.969	19.348	0.00	0.00
ATOM	363	CD	PRO	X	24	23.421	32.087	18.578	0.00	0.00
ATOM	364	HD2	PRO	X	24	22.546	31.968	19.216	0.00	0.00
ATOM	365	HD3	PRO	X	24	23.345	31.405	17.732	0.00	0.00
ATOM	366	CG	PRO	X	24	23.443	33.488	17.968	0.00	0.00
ATOM	367	HG2	PRO	X	24	22.896	34.224	18.557	0.00	0.00
ATOM	368	HG3	PRO	X	24	23.056	33.513	16.950	0.00	0.00
ATOM	369	CB	PRO	X	24	24.915	33.898	18.076	0.00	0.00
ATOM	370	HB2	PRO	X	24	24.926	34.985	18.162	0.00	0.00
ATOM	371	HB3	PRO	X	24	25.378	33.545	17.155	0.00	0.00
ATOM	372	CA	PRO	X	24	25.374	33.215	19.310	0.00	0.00
ATOM	373	HA	PRO	X	24	26.439	33.035	19.164	0.00	0.00
ATOM	374	C	PRO	X	24	25.221	34.154	20.551	0.00	0.00
ATOM	375	O	PRO	X	24	24.346	33.954	21.372	0.00	0.00
ATOM	376	N	VAL	X	25	26.092	35.124	20.733	0.00	0.00
ATOM	377	H	VAL	X	25	26.916	35.134	20.148	0.00	0.00
ATOM	378	CA	VAL	X	25	25.968	36.167	21.796	0.00	0.00
ATOM	379	HA	VAL	X	25	24.955	36.196	22.199	0.00	0.00
ATOM	380	CB	VAL	X	25	27.089	35.980	22.802	0.00	0.00
ATOM	381	HB	VAL	X	25	28.054	35.897	22.301	0.00	0.00
ATOM	382	CG1	VAL	X	25	27.203	37.086	23.881	0.00	0.00
ATOM	383	HG11	VAL	X	25	26.209	37.195	24.316	0.00	0.00
ATOM	384	HG12	VAL	X	25	27.959	36.848	24.628	0.00	0.00
ATOM	385	HG13	VAL	X	25	27.554	38.065	23.555	0.00	0.00
ATOM	386	CG2	VAL	X	25	26.878	34.622	23.510	0.00	0.00
ATOM	387	HG21	VAL	X	25	26.903	33.801	22.794	0.00	0.00
ATOM	388	HG22	VAL	X	25	25.982	34.581	24.129	0.00	0.00
ATOM	389	HG23	VAL	X	25	27.637	34.393	24.259	0.00	0.00
ATOM	390	C	VAL	X	25	26.247	37.552	21.144	0.00	0.00
ATOM	391	O	VAL	X	25	27.118	37.685	20.275	0.00	0.00
ATOM	392	N	SER	X	26	25.569	38.650	21.574	0.00	0.00
ATOM	393	H	SER	X	26	24.932	38.584	22.355	0.00	0.00
ATOM	394	CA	SER	X	26	25.845	40.022	21.115	0.00	0.00
ATOM	395	HA	SER	X	26	26.050	40.092	20.047	0.00	0.00
ATOM	396	CB	SER	X	26	24.532	40.836	21.139	0.00	0.00
ATOM	397	HB2	SER	X	26	23.943	40.484	21.986	0.00	0.00
ATOM	398	HB3	SER	X	26	24.593	41.920	21.237	0.00	0.00
ATOM	399	OG	SER	X	26	23.815	40.590	19.895	0.00	0.00

ATOM	400	HG	SER	X	26	22.868	40.586	20.051	0.00	0.00
ATOM	401	C	SER	X	26	26.965	40.648	21.913	0.00	0.00
ATOM	402	O	SER	X	26	26.895	40.758	23.122	0.00	0.00
ATOM	403	N	ALA	X	27	28.117	41.106	21.351	0.00	0.00
ATOM	404	H	ALA	X	27	28.294	41.078	20.357	0.00	0.00
ATOM	405	CA	ALA	X	27	29.168	41.574	22.198	0.00	0.00
ATOM	406	HA	ALA	X	27	28.798	41.823	23.192	0.00	0.00
ATOM	407	CB	ALA	X	27	30.286	40.427	22.273	0.00	0.00
ATOM	408	HB1	ALA	X	27	31.154	40.685	22.880	0.00	0.00
ATOM	409	HB2	ALA	X	27	30.603	40.210	21.253	0.00	0.00
ATOM	410	HB3	ALA	X	27	29.786	39.523	22.621	0.00	0.00
ATOM	411	C	ALA	X	27	29.822	42.873	21.698	0.00	0.00
ATOM	412	O	ALA	X	27	29.883	43.345	20.549	0.00	0.00
ATOM	413	N	PHE	X	28	30.248	43.658	22.677	0.00	0.00
ATOM	414	H	PHE	X	28	30.183	43.356	23.638	0.00	0.00
ATOM	415	CA	PHE	X	28	30.832	45.027	22.494	0.00	0.00
ATOM	416	HA	PHE	X	28	31.170	45.137	21.464	0.00	0.00
ATOM	417	CB	PHE	X	28	29.738	46.089	22.794	0.00	0.00
ATOM	418	HB2	PHE	X	28	29.441	45.931	23.831	0.00	0.00
ATOM	419	HB3	PHE	X	28	30.318	47.005	22.683	0.00	0.00
ATOM	420	CG	PHE	X	28	28.479	46.064	21.925	0.00	0.00
ATOM	421	CD1	PHE	X	28	27.464	45.147	22.324	0.00	0.00
ATOM	422	HD1	PHE	X	28	27.662	44.550	23.203	0.00	0.00
ATOM	423	CE1	PHE	X	28	26.297	45.059	21.502	0.00	0.00
ATOM	424	HE1	PHE	X	28	25.541	44.308	21.681	0.00	0.00
ATOM	425	CZ	PHE	X	28	26.146	45.840	20.381	0.00	0.00
ATOM	426	HZ	PHE	X	28	25.217	45.808	19.831	0.00	0.00
ATOM	427	CE2	PHE	X	28	27.089	46.862	20.072	0.00	0.00
ATOM	428	HE2	PHE	X	28	26.986	47.548	19.244	0.00	0.00
ATOM	429	CD2	PHE	X	28	28.238	46.968	20.867	0.00	0.00
ATOM	430	HD2	PHE	X	28	28.987	47.689	20.575	0.00	0.00
ATOM	431	C	PHE	X	28	32.064	45.198	23.421	0.00	0.00
ATOM	432	O	PHE	X	28	31.961	44.976	24.622	0.00	0.00
ATOM	433	N	LEU	X	29	33.237	45.249	22.815	0.00	0.00
ATOM	434	H	LEU	X	29	33.314	45.455	21.829	0.00	0.00
ATOM	435	CA	LEU	X	29	34.530	45.303	23.466	0.00	0.00
ATOM	436	HA	LEU	X	29	34.418	45.083	24.528	0.00	0.00
ATOM	437	CB	LEU	X	29	35.391	44.179	22.846	0.00	0.00
ATOM	438	HB2	LEU	X	29	35.653	44.463	21.827	0.00	0.00
ATOM	439	HB3	LEU	X	29	36.314	44.050	23.411	0.00	0.00
ATOM	440	CG	LEU	X	29	34.754	42.803	22.892	0.00	0.00
ATOM	441	HG	LEU	X	29	33.874	42.796	22.250	0.00	0.00
ATOM	442	CD1	LEU	X	29	35.734	41.845	22.233	0.00	0.00
ATOM	443	HD11	LEU	X	29	35.844	42.169	21.198	0.00	0.00
ATOM	444	HD12	LEU	X	29	35.393	40.810	22.218	0.00	0.00
ATOM	445	HD13	LEU	X	29	36.698	41.892	22.740	0.00	0.00
ATOM	446	CD2	LEU	X	29	34.406	42.299	24.289	0.00	0.00
ATOM	447	HD21	LEU	X	29	34.047	41.270	24.294	0.00	0.00
ATOM	448	HD22	LEU	X	29	35.195	42.529	25.004	0.00	0.00
ATOM	449	HD23	LEU	X	29	33.588	42.921	24.652	0.00	0.00
ATOM	450	C	LEU	X	29	35.186	46.667	23.358	0.00	0.00
ATOM	451	O	LEU	X	29	34.813	47.360	22.435	0.00	0.00
ATOM	452	N	GLY	X	30	36.066	47.067	24.229	0.00	0.00
ATOM	453	H	GLY	X	30	36.303	46.488	25.022	0.00	0.00
ATOM	454	CA	GLY	X	30	36.851	48.280	24.099	0.00	0.00
ATOM	455	HA2	GLY	X	30	37.713	48.281	24.766	0.00	0.00
ATOM	456	HA3	GLY	X	30	37.370	48.235	23.141	0.00	0.00
ATOM	457	C	GLY	X	30	36.123	49.640	24.189	0.00	0.00
ATOM	458	O	GLY	X	30	36.523	50.580	23.479	0.00	0.00
ATOM	459	N	ILE	X	31	34.985	49.643	24.829	0.00	0.00
ATOM	460	H	ILE	X	31	34.739	48.843	25.396	0.00	0.00
ATOM	461	CA	ILE	X	31	34.155	50.833	24.990	0.00	0.00
ATOM	462	HA	ILE	X	31	34.014	51.168	23.963	0.00	0.00
ATOM	463	CB	ILE	X	31	32.783	50.492	25.576	0.00	0.00
ATOM	464	HB	ILE	X	31	32.971	50.157	26.596	0.00	0.00
ATOM	465	CG2	ILE	X	31	31.867	51.715	25.583	0.00	0.00
ATOM	466	HG21	ILE	X	31	32.201	52.313	26.431	0.00	0.00

ATOM	467	HG22	ILE	X	31	30.829	51.453	25.787	0.00	0.00
ATOM	468	HG23	ILE	X	31	31.985	52.082	24.564	0.00	0.00
ATOM	469	CG1	ILE	X	31	32.086	49.308	24.761	0.00	0.00
ATOM	470	HG12	ILE	X	31	31.802	49.661	23.769	0.00	0.00
ATOM	471	HG13	ILE	X	31	32.796	48.483	24.710	0.00	0.00
ATOM	472	CD1	ILE	X	31	30.775	48.757	25.440	0.00	0.00
ATOM	473	HD11	ILE	X	31	30.478	47.918	24.810	0.00	0.00
ATOM	474	HD12	ILE	X	31	29.883	49.379	25.505	0.00	0.00
ATOM	475	HD13	ILE	X	31	31.088	48.270	26.363	0.00	0.00
ATOM	476	C	ILE	X	31	34.840	51.812	25.988	0.00	0.00
ATOM	477	O	ILE	X	31	35.187	51.440	27.071	0.00	0.00
ATOM	478	N	PRO	X	32	34.936	53.078	25.621	0.00	0.00
ATOM	479	CD	PRO	X	32	34.722	53.711	24.309	0.00	0.00
ATOM	480	HD2	PRO	X	32	33.700	53.508	23.989	0.00	0.00
ATOM	481	HD3	PRO	X	32	35.444	53.350	23.577	0.00	0.00
ATOM	482	CG	PRO	X	32	34.954	55.227	24.490	0.00	0.00
ATOM	483	HG2	PRO	X	32	34.030	55.660	24.872	0.00	0.00
ATOM	484	HG3	PRO	X	32	35.293	55.661	23.549	0.00	0.00
ATOM	485	CB	PRO	X	32	35.981	55.291	25.604	0.00	0.00
ATOM	486	HB2	PRO	X	32	35.972	56.242	26.137	0.00	0.00
ATOM	487	HB3	PRO	X	32	37.007	55.205	25.245	0.00	0.00
ATOM	488	CA	PRO	X	32	35.583	54.077	26.504	0.00	0.00
ATOM	489	HA	PRO	X	32	36.398	53.646	27.086	0.00	0.00
ATOM	490	C	PRO	X	32	34.613	54.501	27.585	0.00	0.00
ATOM	491	O	PRO	X	32	33.447	54.789	27.320	0.00	0.00
ATOM	492	N	PHE	X	33	35.065	54.517	28.863	0.00	0.00
ATOM	493	H	PHE	X	33	36.031	54.265	29.015	0.00	0.00
ATOM	494	CA	PHE	X	33	34.234	54.947	30.022	0.00	0.00
ATOM	495	HA	PHE	X	33	33.223	55.187	29.691	0.00	0.00
ATOM	496	CB	PHE	X	33	33.948	53.740	30.975	0.00	0.00
ATOM	497	HB2	PHE	X	33	33.264	54.076	31.754	0.00	0.00
ATOM	498	HB3	PHE	X	33	33.435	52.941	30.438	0.00	0.00
ATOM	499	CG	PHE	X	33	35.209	53.263	31.733	0.00	0.00
ATOM	500	CD1	PHE	X	33	35.570	53.994	32.904	0.00	0.00
ATOM	501	HD1	PHE	X	33	35.022	54.857	33.252	0.00	0.00
ATOM	502	CE1	PHE	X	33	36.659	53.517	33.683	0.00	0.00
ATOM	503	HE1	PHE	X	33	36.944	54.021	34.594	0.00	0.00
ATOM	504	CZ	PHE	X	33	37.447	52.403	33.174	0.00	0.00
ATOM	505	HZ	PHE	X	33	38.280	52.094	33.789	0.00	0.00
ATOM	506	CE2	PHE	X	33	37.056	51.691	32.024	0.00	0.00
ATOM	507	HE2	PHE	X	33	37.613	50.872	31.595	0.00	0.00
ATOM	508	CD2	PHE	X	33	35.958	52.147	31.283	0.00	0.00
ATOM	509	HD2	PHE	X	33	35.733	51.698	30.327	0.00	0.00
ATOM	510	C	PHE	X	33	34.819	56.162	30.707	0.00	0.00
ATOM	511	O	PHE	X	33	34.125	56.917	31.355	0.00	0.00
ATOM	512	N	ALA	X	34	36.142	56.452	30.482	0.00	0.00
ATOM	513	H	ALA	X	34	36.556	55.890	29.751	0.00	0.00
ATOM	514	CA	ALA	X	34	36.844	57.627	31.000	0.00	0.00
ATOM	515	HA	ALA	X	34	36.145	58.288	31.512	0.00	0.00
ATOM	516	CB	ALA	X	34	37.898	57.122	32.007	0.00	0.00
ATOM	517	HB1	ALA	X	34	37.470	56.433	32.734	0.00	0.00
ATOM	518	HB2	ALA	X	34	38.291	58.004	32.514	0.00	0.00
ATOM	519	HB3	ALA	X	34	38.661	56.606	31.423	0.00	0.00
ATOM	520	C	ALA	X	34	37.501	58.484	29.837	0.00	0.00
ATOM	521	O	ALA	X	34	37.635	58.032	28.704	0.00	0.00
ATOM	522	N	GLU	X	35	38.072	59.670	30.117	0.00	0.00
ATOM	523	H	GLU	X	35	38.114	59.960	31.084	0.00	0.00
ATOM	524	CA	GLU	X	35	39.119	60.304	29.284	0.00	0.00
ATOM	525	HA	GLU	X	35	38.902	60.079	28.240	0.00	0.00
ATOM	526	CB	GLU	X	35	39.072	61.830	29.658	0.00	0.00
ATOM	527	HB2	GLU	X	35	39.041	61.867	30.747	0.00	0.00
ATOM	528	HB3	GLU	X	35	39.962	62.372	29.340	0.00	0.00
ATOM	529	CG	GLU	X	35	37.850	62.583	29.155	0.00	0.00
ATOM	530	HG2	GLU	X	35	37.033	62.152	29.733	0.00	0.00
ATOM	531	HG3	GLU	X	35	38.014	63.620	29.449	0.00	0.00
ATOM	532	CD	GLU	X	35	37.595	62.389	27.675	0.00	0.00
ATOM	533	OE1	GLU	X	35	38.539	62.169	26.881	0.00	0.00

ATOM	534	OE2	GLU	X	35	36.403	62.490	27.347	0.00	0.00
ATOM	535	C	GLU	X	35	40.414	59.757	29.703	0.00	0.00
ATOM	536	O	GLU	X	35	40.620	59.430	30.875	0.00	0.00
ATOM	537	N	PRO	X	36	41.390	59.644	28.725	0.00	0.00
ATOM	538	CD	PRO	X	36	41.394	60.232	27.357	0.00	0.00
ATOM	539	HD2	PRO	X	36	41.055	61.268	27.358	0.00	0.00
ATOM	540	HD3	PRO	X	36	40.727	59.632	26.738	0.00	0.00
ATOM	541	CG	PRO	X	36	42.789	60.047	26.875	0.00	0.00
ATOM	542	HG2	PRO	X	36	43.436	60.866	27.189	0.00	0.00
ATOM	543	HG3	PRO	X	36	42.753	59.946	25.790	0.00	0.00
ATOM	544	CB	PRO	X	36	43.253	58.761	27.573	0.00	0.00
ATOM	545	HB2	PRO	X	36	44.340	58.683	27.565	0.00	0.00
ATOM	546	HB3	PRO	X	36	42.867	57.909	27.014	0.00	0.00
ATOM	547	CA	PRO	X	36	42.574	58.831	28.936	0.00	0.00
ATOM	548	HA	PRO	X	36	42.443	57.779	29.190	0.00	0.00
ATOM	549	C	PRO	X	36	43.572	59.419	29.965	0.00	0.00
ATOM	550	O	PRO	X	36	43.953	60.583	29.927	0.00	0.00
ATOM	551	N	PRO	X	37	44.054	58.536	30.870	0.00	0.00
ATOM	552	CD	PRO	X	37	43.464	57.313	31.312	0.00	0.00
ATOM	553	HD2	PRO	X	37	43.770	56.487	30.669	0.00	0.00
ATOM	554	HD3	PRO	X	37	42.381	57.278	31.196	0.00	0.00
ATOM	555	CG	PRO	X	37	43.829	57.003	32.768	0.00	0.00
ATOM	556	HG2	PRO	X	37	43.936	55.929	32.924	0.00	0.00
ATOM	557	HG3	PRO	X	37	43.099	57.568	33.349	0.00	0.00
ATOM	558	CB	PRO	X	37	45.191	57.685	32.816	0.00	0.00
ATOM	559	HB2	PRO	X	37	45.956	57.030	32.398	0.00	0.00
ATOM	560	HB3	PRO	X	37	45.493	57.979	33.821	0.00	0.00
ATOM	561	CA	PRO	X	37	45.054	58.961	31.924	0.00	0.00
ATOM	562	HA	PRO	X	37	44.593	59.741	32.528	0.00	0.00
ATOM	563	C	PRO	X	37	46.482	59.426	31.577	0.00	0.00
ATOM	564	O	PRO	X	37	47.320	59.627	32.426	0.00	0.00
ATOM	565	N	MET	X	38	46.663	59.621	30.208	0.00	0.00
ATOM	566	H	MET	X	38	45.849	59.511	29.621	0.00	0.00
ATOM	567	CA	MET	X	38	47.959	60.085	29.635	0.00	0.00
ATOM	568	HA	MET	X	38	48.678	59.273	29.752	0.00	0.00
ATOM	569	CB	MET	X	38	47.722	60.283	28.036	0.00	0.00
ATOM	570	HB2	MET	X	38	46.911	60.977	27.816	0.00	0.00
ATOM	571	HB3	MET	X	38	48.559	60.887	27.684	0.00	0.00
ATOM	572	CG	MET	X	38	47.601	58.979	27.215	0.00	0.00
ATOM	573	HG2	MET	X	38	46.877	58.397	27.784	0.00	0.00
ATOM	574	HG3	MET	X	38	47.159	59.148	26.232	0.00	0.00
ATOM	575	SD	MET	X	38	49.080	57.949	26.993	0.00	0.00
ATOM	576	CE	MET	X	38	50.031	59.090	25.906	0.00	0.00
ATOM	577	HE1	MET	X	38	50.955	58.573	25.649	0.00	0.00
ATOM	578	HE2	MET	X	38	49.412	59.252	25.024	0.00	0.00
ATOM	579	HE3	MET	X	38	50.214	60.003	26.472	0.00	0.00
ATOM	580	C	MET	X	38	48.562	61.292	30.326	0.00	0.00
ATOM	581	O	MET	X	38	47.918	62.368	30.511	0.00	0.00
ATOM	582	N	GLY	X	39	49.879	61.252	30.545	0.00	0.00
ATOM	583	H	GLY	X	39	50.247	60.331	30.354	0.00	0.00
ATOM	584	CA	GLY	X	39	50.730	62.482	30.835	0.00	0.00
ATOM	585	HA2	GLY	X	39	51.734	62.122	31.062	0.00	0.00
ATOM	586	HA3	GLY	X	39	50.794	63.120	29.954	0.00	0.00
ATOM	587	C	GLY	X	39	50.182	63.233	32.046	0.00	0.00
ATOM	588	O	GLY	X	39	50.363	62.750	33.137	0.00	0.00
ATOM	589	N	PRO	X	40	49.574	64.428	31.894	0.00	0.00
ATOM	590	CD	PRO	X	40	49.313	65.137	30.666	0.00	0.00
ATOM	591	HD2	PRO	X	40	49.056	64.428	29.879	0.00	0.00
ATOM	592	HD3	PRO	X	40	50.171	65.761	30.419	0.00	0.00
ATOM	593	CG	PRO	X	40	48.090	66.034	30.971	0.00	0.00
ATOM	594	HG2	PRO	X	40	47.163	65.460	30.968	0.00	0.00
ATOM	595	HG3	PRO	X	40	47.965	66.817	30.223	0.00	0.00
ATOM	596	CB	PRO	X	40	48.351	66.411	32.402	0.00	0.00
ATOM	597	HB2	PRO	X	40	47.459	66.840	32.858	0.00	0.00
ATOM	598	HB3	PRO	X	40	49.161	67.135	32.494	0.00	0.00
ATOM	599	CA	PRO	X	40	48.988	65.134	32.971	0.00	0.00
ATOM	600	HA	PRO	X	40	49.736	65.513	33.667	0.00	0.00

ATOM	601	C	PRO	X	40	48.006	64.345	33.851	0.00	0.00
ATOM	602	O	PRO	X	40	47.918	64.776	34.984	0.00	0.00
ATOM	603	N	ARG	X	41	47.344	63.333	33.303	0.00	0.00
ATOM	604	H	ARG	X	41	47.514	63.013	32.360	0.00	0.00
ATOM	605	CA	ARG	X	41	46.212	62.751	34.033	0.00	0.00
ATOM	606	HA	ARG	X	41	45.839	63.376	34.844	0.00	0.00
ATOM	607	CB	ARG	X	41	45.039	62.305	33.143	0.00	0.00
ATOM	608	HB2	ARG	X	41	45.272	61.924	32.149	0.00	0.00
ATOM	609	HB3	ARG	X	41	44.311	61.687	33.669	0.00	0.00
ATOM	610	CG	ARG	X	41	44.202	63.564	32.827	0.00	0.00
ATOM	611	HG2	ARG	X	41	43.935	64.001	33.789	0.00	0.00
ATOM	612	HG3	ARG	X	41	44.807	64.244	32.226	0.00	0.00
ATOM	613	CD	ARG	X	41	42.961	63.292	32.017	0.00	0.00
ATOM	614	HD2	ARG	X	41	43.306	62.985	31.029	0.00	0.00
ATOM	615	HD3	ARG	X	41	42.372	62.491	32.462	0.00	0.00
ATOM	616	NE	ARG	X	41	42.127	64.523	31.826	0.00	0.00
ATOM	617	HE	ARG	X	41	41.465	64.721	32.562	0.00	0.00
ATOM	618	CZ	ARG	X	41	42.123	65.444	30.881	0.00	0.00
ATOM	619	NH1	ARG	X	41	42.953	65.353	29.867	0.00	0.00
ATOM	620	HH11	ARG	X	41	43.534	64.532	29.772	0.00	0.00
ATOM	621	HH12	ARG	X	41	42.961	66.144	29.239	0.00	0.00
ATOM	622	NH2	ARG	X	41	41.202	66.380	30.975	0.00	0.00
ATOM	623	HH21	ARG	X	41	40.538	66.305	31.733	0.00	0.00
ATOM	624	HH22	ARG	X	41	40.996	67.097	30.294	0.00	0.00
ATOM	625	C	ARG	X	41	46.776	61.510	34.846	0.00	0.00
ATOM	626	O	ARG	X	41	46.015	60.774	35.521	0.00	0.00
ATOM	627	N	ARG	X	42	48.077	61.192	34.739	0.00	0.00
ATOM	628	H	ARG	X	42	48.626	61.837	34.190	0.00	0.00
ATOM	629	CA	ARG	X	42	48.763	60.160	35.561	0.00	0.00
ATOM	630	HA	ARG	X	42	48.294	59.206	35.318	0.00	0.00
ATOM	631	CB	ARG	X	42	50.240	60.063	35.058	0.00	0.00
ATOM	632	HB2	ARG	X	42	50.366	60.085	33.975	0.00	0.00
ATOM	633	HB3	ARG	X	42	50.776	60.978	35.306	0.00	0.00
ATOM	634	CG	ARG	X	42	51.001	58.840	35.595	0.00	0.00
ATOM	635	HG2	ARG	X	42	50.912	58.911	36.679	0.00	0.00
ATOM	636	HG3	ARG	X	42	50.527	57.959	35.162	0.00	0.00
ATOM	637	CD	ARG	X	42	52.473	58.813	35.275	0.00	0.00
ATOM	638	HD2	ARG	X	42	52.874	59.763	35.626	0.00	0.00
ATOM	639	HD3	ARG	X	42	52.883	57.949	35.798	0.00	0.00
ATOM	640	NE	ARG	X	42	52.703	58.615	33.875	0.00	0.00
ATOM	641	HE	ARG	X	42	51.946	58.093	33.456	0.00	0.00
ATOM	642	CZ	ARG	X	42	53.846	58.940	33.284	0.00	0.00
ATOM	643	NH1	ARG	X	42	54.917	59.597	33.811	0.00	0.00
ATOM	644	HH11	ARG	X	42	54.866	60.011	34.731	0.00	0.00
ATOM	645	HH12	ARG	X	42	55.737	59.799	33.257	0.00	0.00
ATOM	646	NH2	ARG	X	42	53.938	58.634	32.010	0.00	0.00
ATOM	647	HH21	ARG	X	42	53.242	58.089	31.522	0.00	0.00
ATOM	648	HH22	ARG	X	42	54.746	58.908	31.469	0.00	0.00
ATOM	649	C	ARG	X	42	48.611	60.418	37.081	0.00	0.00
ATOM	650	O	ARG	X	42	48.779	61.565	37.483	0.00	0.00
ATOM	651	N	PHE	X	43	48.307	59.343	37.798	0.00	0.00
ATOM	652	H	PHE	X	43	48.163	58.488	37.279	0.00	0.00
ATOM	653	CA	PHE	X	43	47.972	59.365	39.207	0.00	0.00
ATOM	654	HA	PHE	X	43	47.770	58.327	39.473	0.00	0.00
ATOM	655	CB	PHE	X	43	49.206	59.827	40.069	0.00	0.00
ATOM	656	HB2	PHE	X	43	49.174	60.907	40.214	0.00	0.00
ATOM	657	HB3	PHE	X	43	49.124	59.393	41.065	0.00	0.00
ATOM	658	CG	PHE	X	43	50.572	59.445	39.590	0.00	0.00
ATOM	659	CD1	PHE	X	43	50.997	58.117	39.589	0.00	0.00
ATOM	660	HD1	PHE	X	43	50.259	57.407	39.932	0.00	0.00
ATOM	661	CE1	PHE	X	43	52.230	57.657	39.074	0.00	0.00
ATOM	662	HE1	PHE	X	43	52.462	56.611	38.942	0.00	0.00
ATOM	663	CZ	PHE	X	43	53.142	58.658	38.718	0.00	0.00
ATOM	664	HZ	PHE	X	43	54.171	58.369	38.559	0.00	0.00
ATOM	665	CE2	PHE	X	43	52.794	59.998	38.743	0.00	0.00
ATOM	666	HE2	PHE	X	43	53.448	60.754	38.334	0.00	0.00
ATOM	667	CD2	PHE	X	43	51.511	60.409	39.153	0.00	0.00

ATOM	668	HD2	PHE	X	43	51.245	61.446	39.016	0.00	0.00
ATOM	669	C	PHE	X	43	46.765	60.121	39.720	0.00	0.00
ATOM	670	O	PHE	X	43	46.469	60.036	40.874	0.00	0.00
ATOM	671	N	LEU	X	44	46.005	60.751	38.831	0.00	0.00
ATOM	672	H	LEU	X	44	46.274	60.831	37.861	0.00	0.00
ATOM	673	CA	LEU	X	44	44.844	61.659	39.135	0.00	0.00
ATOM	674	HA	LEU	X	44	44.900	62.045	40.153	0.00	0.00
ATOM	675	CB	LEU	X	44	44.764	62.867	38.291	0.00	0.00
ATOM	676	HB2	LEU	X	44	44.905	62.582	37.248	0.00	0.00
ATOM	677	HB3	LEU	X	44	43.802	63.375	38.348	0.00	0.00
ATOM	678	CG	LEU	X	44	45.838	63.991	38.440	0.00	0.00
ATOM	679	HG	LEU	X	44	46.835	63.553	38.390	0.00	0.00
ATOM	680	CD1	LEU	X	44	45.611	65.157	37.476	0.00	0.00
ATOM	681	HD11	LEU	X	44	44.623	65.576	37.670	0.00	0.00
ATOM	682	HD12	LEU	X	44	45.652	64.889	36.421	0.00	0.00
ATOM	683	HD13	LEU	X	44	46.285	66.012	37.528	0.00	0.00
ATOM	684	CD2	LEU	X	44	45.742	64.574	39.867	0.00	0.00
ATOM	685	HD21	LEU	X	44	44.726	64.950	39.991	0.00	0.00
ATOM	686	HD22	LEU	X	44	45.929	63.825	40.636	0.00	0.00
ATOM	687	HD23	LEU	X	44	46.459	65.366	40.081	0.00	0.00
ATOM	688	C	LEU	X	44	43.579	60.853	38.976	0.00	0.00
ATOM	689	O	LEU	X	44	43.455	59.874	38.183	0.00	0.00
ATOM	690	N	PRO	X	45	42.490	61.194	39.686	0.00	0.00
ATOM	691	CD	PRO	X	45	42.414	62.056	40.852	0.00	0.00
ATOM	692	HD2	PRO	X	45	42.412	63.091	40.507	0.00	0.00
ATOM	693	HD3	PRO	X	45	43.301	61.901	41.466	0.00	0.00
ATOM	694	CG	PRO	X	45	41.155	61.717	41.700	0.00	0.00
ATOM	695	HG2	PRO	X	45	40.784	62.606	42.210	0.00	0.00
ATOM	696	HG3	PRO	X	45	41.348	60.892	42.385	0.00	0.00
ATOM	697	CB	PRO	X	45	40.286	61.271	40.562	0.00	0.00
ATOM	698	HB2	PRO	X	45	39.732	62.110	40.142	0.00	0.00
ATOM	699	HB3	PRO	X	45	39.546	60.553	40.917	0.00	0.00
ATOM	700	CA	PRO	X	45	41.199	60.568	39.515	0.00	0.00
ATOM	701	HA	PRO	X	45	41.328	59.530	39.823	0.00	0.00
ATOM	702	C	PRO	X	45	40.646	60.673	38.064	0.00	0.00
ATOM	703	O	PRO	X	45	40.949	61.686	37.440	0.00	0.00
ATOM	704	N	PRO	X	46	39.858	59.684	37.584	0.00	0.00
ATOM	705	CD	PRO	X	46	39.446	58.519	38.240	0.00	0.00
ATOM	706	HD2	PRO	X	46	38.985	58.690	39.213	0.00	0.00
ATOM	707	HD3	PRO	X	46	40.313	57.896	38.458	0.00	0.00
ATOM	708	CG	PRO	X	46	38.511	57.802	37.220	0.00	0.00
ATOM	709	HG2	PRO	X	46	37.479	58.121	37.365	0.00	0.00
ATOM	710	HG3	PRO	X	46	38.632	56.726	37.351	0.00	0.00
ATOM	711	CB	PRO	X	46	39.038	58.281	35.879	0.00	0.00
ATOM	712	HB2	PRO	X	46	38.264	58.248	35.112	0.00	0.00
ATOM	713	HB3	PRO	X	46	39.953	57.710	35.723	0.00	0.00
ATOM	714	CA	PRO	X	46	39.432	59.739	36.168	0.00	0.00
ATOM	715	HA	PRO	X	46	40.342	59.913	35.593	0.00	0.00
ATOM	716	C	PRO	X	46	38.296	60.689	35.956	0.00	0.00
ATOM	717	O	PRO	X	46	37.313	60.810	36.734	0.00	0.00
ATOM	718	N	GLU	X	47	38.410	61.367	34.815	0.00	0.00
ATOM	719	H	GLU	X	47	39.216	61.156	34.245	0.00	0.00
ATOM	720	CA	GLU	X	47	37.371	62.240	34.217	0.00	0.00
ATOM	721	HA	GLU	X	47	36.702	62.669	34.962	0.00	0.00
ATOM	722	CB	GLU	X	47	37.926	63.411	33.418	0.00	0.00
ATOM	723	HB2	GLU	X	47	38.664	62.952	32.760	0.00	0.00
ATOM	724	HB3	GLU	X	47	37.155	63.820	32.764	0.00	0.00
ATOM	725	CG	GLU	X	47	38.479	64.509	34.320	0.00	0.00
ATOM	726	HG2	GLU	X	47	37.627	65.043	34.740	0.00	0.00
ATOM	727	HG3	GLU	X	47	39.062	64.094	35.142	0.00	0.00
ATOM	728	CD	GLU	X	47	39.236	65.521	33.532	0.00	0.00
ATOM	729	OE1	GLU	X	47	38.611	66.357	32.809	0.00	0.00
ATOM	730	OE2	GLU	X	47	40.466	65.642	33.772	0.00	0.00
ATOM	731	C	GLU	X	47	36.451	61.400	33.326	0.00	0.00
ATOM	732	O	GLU	X	47	36.932	60.563	32.544	0.00	0.00
ATOM	733	N	PRO	X	48	35.112	61.500	33.505	0.00	0.00
ATOM	734	CD	PRO	X	48	34.451	62.254	34.585	0.00	0.00

ATOM	735	HD2	PRO	X	48	34.369	63.305	34.307	0.00	0.00
ATOM	736	HD3	PRO	X	48	34.855	62.070	35.580	0.00	0.00
ATOM	737	CG	PRO	X	48	33.054	61.712	34.659	0.00	0.00
ATOM	738	HG2	PRO	X	48	32.335	62.455	35.004	0.00	0.00
ATOM	739	HG3	PRO	X	48	33.063	60.867	35.347	0.00	0.00
ATOM	740	CB	PRO	X	48	32.739	61.177	33.188	0.00	0.00
ATOM	741	HB2	PRO	X	48	32.391	62.006	32.572	0.00	0.00
ATOM	742	HB3	PRO	X	48	32.066	60.320	33.218	0.00	0.00
ATOM	743	CA	PRO	X	48	34.126	60.771	32.653	0.00	0.00
ATOM	744	HA	PRO	X	48	34.279	59.703	32.810	0.00	0.00
ATOM	745	C	PRO	X	48	34.322	61.082	31.182	0.00	0.00
ATOM	746	O	PRO	X	48	34.628	62.207	30.819	0.00	0.00
ATOM	747	N	LYS	X	49	34.098	60.113	30.327	0.00	0.00
ATOM	748	H	LYS	X	49	33.900	59.190	30.685	0.00	0.00
ATOM	749	CA	LYS	X	49	34.291	60.243	28.887	0.00	0.00
ATOM	750	HA	LYS	X	49	35.283	60.607	28.622	0.00	0.00
ATOM	751	CB	LYS	X	49	34.192	58.855	28.226	0.00	0.00
ATOM	752	HB2	LYS	X	49	34.874	58.156	28.711	0.00	0.00
ATOM	753	HB3	LYS	X	49	33.135	58.599	28.290	0.00	0.00
ATOM	754	CG	LYS	X	49	34.530	58.894	26.696	0.00	0.00
ATOM	755	HG2	LYS	X	49	34.461	57.882	26.298	0.00	0.00
ATOM	756	HG3	LYS	X	49	33.787	59.556	26.251	0.00	0.00
ATOM	757	CD	LYS	X	49	35.935	59.302	26.310	0.00	0.00
ATOM	758	HD2	LYS	X	49	36.377	59.803	27.171	0.00	0.00
ATOM	759	HD3	LYS	X	49	36.510	58.406	26.079	0.00	0.00
ATOM	760	CE	LYS	X	49	35.941	60.201	25.096	0.00	0.00
ATOM	761	HE2	LYS	X	49	35.791	59.532	24.248	0.00	0.00
ATOM	762	HE3	LYS	X	49	35.073	60.855	25.181	0.00	0.00
ATOM	763	NZ	LYS	X	49	37.171	60.997	24.897	0.00	0.00
ATOM	764	HZ1	LYS	X	49	37.968	60.377	24.878	0.00	0.00
ATOM	765	HZ2	LYS	X	49	37.151	61.599	24.087	0.00	0.00
ATOM	766	HZ3	LYS	X	49	37.326	61.565	25.718	0.00	0.00
ATOM	767	C	LYS	X	49	33.247	61.219	28.335	0.00	0.00
ATOM	768	O	LYS	X	49	32.005	61.013	28.461	0.00	0.00
ATOM	769	N	GLN	X	50	33.681	62.178	27.481	0.00	0.00
ATOM	770	H	GLN	X	50	34.678	62.343	27.480	0.00	0.00
ATOM	771	CA	GLN	X	50	32.891	63.112	26.733	0.00	0.00
ATOM	772	HA	GLN	X	50	32.147	63.516	27.420	0.00	0.00
ATOM	773	CB	GLN	X	50	33.807	64.229	26.209	0.00	0.00
ATOM	774	HB2	GLN	X	50	34.649	63.799	25.666	0.00	0.00
ATOM	775	HB3	GLN	X	50	33.314	64.836	25.450	0.00	0.00
ATOM	776	CG	GLN	X	50	34.414	65.126	27.321	0.00	0.00
ATOM	777	HG2	GLN	X	50	33.630	65.707	27.807	0.00	0.00
ATOM	778	HG3	GLN	X	50	34.761	64.408	28.063	0.00	0.00
ATOM	779	CD	GLN	X	50	35.532	66.025	26.819	0.00	0.00
ATOM	780	OE1	GLN	X	50	35.410	67.166	26.474	0.00	0.00
ATOM	781	NE2	GLN	X	50	36.695	65.458	26.699	0.00	0.00
ATOM	782	HE21	GLN	X	50	37.495	65.984	26.379	0.00	0.00
ATOM	783	HE22	GLN	X	50	36.783	64.467	26.872	0.00	0.00
ATOM	784	C	GLN	X	50	32.277	62.422	25.530	0.00	0.00
ATOM	785	O	GLN	X	50	32.941	61.564	24.896	0.00	0.00
ATOM	786	N	PRO	X	51	31.028	62.819	25.148	0.00	0.00
ATOM	787	CD	PRO	X	51	30.155	63.757	25.771	0.00	0.00
ATOM	788	HD2	PRO	X	51	30.511	64.745	25.476	0.00	0.00
ATOM	789	HD3	PRO	X	51	30.053	63.666	26.852	0.00	0.00
ATOM	790	CG	PRO	X	51	28.733	63.482	25.261	0.00	0.00
ATOM	791	HG2	PRO	X	51	28.150	64.391	25.115	0.00	0.00
ATOM	792	HG3	PRO	X	51	28.228	62.692	25.818	0.00	0.00
ATOM	793	CB	PRO	X	51	29.038	62.982	23.818	0.00	0.00
ATOM	794	HB2	PRO	X	51	29.193	63.881	23.221	0.00	0.00
ATOM	795	HB3	PRO	X	51	28.307	62.300	23.386	0.00	0.00
ATOM	796	CA	PRO	X	51	30.395	62.295	23.930	0.00	0.00
ATOM	797	HA	PRO	X	51	30.175	61.247	24.133	0.00	0.00
ATOM	798	C	PRO	X	51	31.235	62.384	22.657	0.00	0.00
ATOM	799	O	PRO	X	51	31.999	63.322	22.530	0.00	0.00
ATOM	800	N	TRP	X	52	31.116	61.377	21.760	0.00	0.00
ATOM	801	H	TRP	X	52	30.464	60.641	21.990	0.00	0.00

ATOM	802	CA	TRP	X	52	31.883	61.261	20.495	0.00	0.00
ATOM	803	HA	TRP	X	52	32.554	62.120	20.472	0.00	0.00
ATOM	804	CB	TRP	X	52	32.631	59.855	20.532	0.00	0.00
ATOM	805	HB2	TRP	X	52	33.285	59.714	19.671	0.00	0.00
ATOM	806	HB3	TRP	X	52	33.328	59.885	21.370	0.00	0.00
ATOM	807	CG	TRP	X	52	31.681	58.654	20.746	0.00	0.00
ATOM	808	CD1	TRP	X	52	30.989	57.988	19.791	0.00	0.00
ATOM	809	HD1	TRP	X	52	30.967	58.351	18.774	0.00	0.00
ATOM	810	NE1	TRP	X	52	30.393	56.828	20.314	0.00	0.00
ATOM	811	HE1	TRP	X	52	29.864	56.145	19.789	0.00	0.00
ATOM	812	CE2	TRP	X	52	30.718	56.660	21.672	0.00	0.00
ATOM	813	CZ2	TRP	X	52	30.345	55.746	22.651	0.00	0.00
ATOM	814	HZ2	TRP	X	52	29.696	54.919	22.402	0.00	0.00
ATOM	815	CH2	TRP	X	52	30.623	56.080	23.963	0.00	0.00
ATOM	816	HH2	TRP	X	52	30.238	55.418	24.725	0.00	0.00
ATOM	817	CZ3	TRP	X	52	31.417	57.228	24.293	0.00	0.00
ATOM	818	HZ3	TRP	X	52	31.692	57.434	25.317	0.00	0.00
ATOM	819	CE3	TRP	X	52	31.800	58.117	23.282	0.00	0.00
ATOM	820	HE3	TRP	X	52	32.420	58.964	23.537	0.00	0.00
ATOM	821	CD2	TRP	X	52	31.425	57.884	21.974	0.00	0.00
ATOM	822	C	TRP	X	52	30.992	61.426	19.292	0.00	0.00
ATOM	823	O	TRP	X	52	29.762	61.265	19.360	0.00	0.00
ATOM	824	N	SER	X	53	31.619	61.842	18.199	0.00	0.00
ATOM	825	H	SER	X	53	32.596	62.092	18.251	0.00	0.00
ATOM	826	CA	SER	X	53	31.053	61.965	16.791	0.00	0.00
ATOM	827	HA	SER	X	53	30.013	62.253	16.943	0.00	0.00
ATOM	828	CB	SER	X	53	31.859	63.011	16.132	0.00	0.00
ATOM	829	HB2	SER	X	53	31.585	63.004	15.077	0.00	0.00
ATOM	830	HB3	SER	X	53	31.707	64.040	16.459	0.00	0.00
ATOM	831	OG	SER	X	53	33.247	62.779	16.176	0.00	0.00
ATOM	832	HG	SER	X	53	33.730	63.526	15.813	0.00	0.00
ATOM	833	C	SER	X	53	31.001	60.621	15.986	0.00	0.00
ATOM	834	O	SER	X	53	31.757	59.696	16.276	0.00	0.00
ATOM	835	N	GLY	X	54	29.990	60.516	15.122	0.00	0.00
ATOM	836	H	GLY	X	54	29.428	61.306	14.838	0.00	0.00
ATOM	837	CA	GLY	X	54	29.903	59.412	14.182	0.00	0.00
ATOM	838	HA2	GLY	X	54	29.219	59.699	13.383	0.00	0.00
ATOM	839	HA3	GLY	X	54	30.880	59.180	13.757	0.00	0.00
ATOM	840	C	GLY	X	54	29.438	58.095	14.845	0.00	0.00
ATOM	841	O	GLY	X	54	28.240	57.841	14.937	0.00	0.00
ATOM	842	N	VAL	X	55	30.378	57.329	15.372	0.00	0.00
ATOM	843	H	VAL	X	55	31.276	57.791	15.411	0.00	0.00
ATOM	844	CA	VAL	X	55	30.333	55.966	15.887	0.00	0.00
ATOM	845	HA	VAL	X	55	29.694	56.097	16.760	0.00	0.00
ATOM	846	CB	VAL	X	55	29.655	55.009	14.848	0.00	0.00
ATOM	847	HB	VAL	X	55	28.635	55.351	14.676	0.00	0.00
ATOM	848	CG1	VAL	X	55	30.235	55.047	13.378	0.00	0.00
ATOM	849	HG11	VAL	X	55	30.400	56.071	13.043	0.00	0.00
ATOM	850	HG12	VAL	X	55	31.217	54.575	13.346	0.00	0.00
ATOM	851	HG13	VAL	X	55	29.576	54.503	12.702	0.00	0.00
ATOM	852	CG2	VAL	X	55	29.469	53.603	15.312	0.00	0.00
ATOM	853	HG21	VAL	X	55	30.446	53.164	15.514	0.00	0.00
ATOM	854	HG22	VAL	X	55	29.008	52.985	14.541	0.00	0.00
ATOM	855	HG23	VAL	X	55	28.872	53.599	16.224	0.00	0.00
ATOM	856	C	VAL	X	55	31.696	55.495	16.249	0.00	0.00
ATOM	857	O	VAL	X	55	32.673	55.727	15.542	0.00	0.00
ATOM	858	N	VAL	X	56	31.826	54.813	17.393	0.00	0.00
ATOM	859	H	VAL	X	56	30.978	54.589	17.895	0.00	0.00
ATOM	860	CA	VAL	X	56	33.016	54.106	17.842	0.00	0.00
ATOM	861	HA	VAL	X	56	33.861	54.516	17.290	0.00	0.00
ATOM	862	CB	VAL	X	56	33.216	54.342	19.345	0.00	0.00
ATOM	863	HB	VAL	X	56	32.215	54.317	19.774	0.00	0.00
ATOM	864	CG1	VAL	X	56	33.995	53.291	20.108	0.00	0.00
ATOM	865	HG11	VAL	X	56	33.523	52.309	20.144	0.00	0.00
ATOM	866	HG12	VAL	X	56	34.976	53.128	19.661	0.00	0.00
ATOM	867	HG13	VAL	X	56	34.194	53.690	21.103	0.00	0.00
ATOM	868	CG2	VAL	X	56	33.790	55.782	19.513	0.00	0.00

ATOM	869	HG21	VAL	X	56	33.822	55.974	20.586	0.00	0.00
ATOM	870	HG22	VAL	X	56	33.149	56.507	19.012	0.00	0.00
ATOM	871	HG23	VAL	X	56	34.816	55.785	19.144	0.00	0.00
ATOM	872	C	VAL	X	56	32.857	52.620	17.432	0.00	0.00
ATOM	873	O	VAL	X	56	31.777	52.049	17.627	0.00	0.00
ATOM	874	N	ASP	X	57	33.977	52.045	16.895	0.00	0.00
ATOM	875	H	ASP	X	57	34.795	52.601	16.693	0.00	0.00
ATOM	876	CA	ASP	X	57	34.157	50.598	16.763	0.00	0.00
ATOM	877	HA	ASP	X	57	33.285	50.180	16.261	0.00	0.00
ATOM	878	CB	ASP	X	57	35.413	50.391	15.839	0.00	0.00
ATOM	879	HB2	ASP	X	57	35.315	51.081	15.001	0.00	0.00
ATOM	880	HB3	ASP	X	57	36.295	50.691	16.405	0.00	0.00
ATOM	881	CG	ASP	X	57	35.605	48.941	15.346	0.00	0.00
ATOM	882	OD1	ASP	X	57	35.700	47.978	16.118	0.00	0.00
ATOM	883	OD2	ASP	X	57	35.916	48.906	14.112	0.00	0.00
ATOM	884	C	ASP	X	57	34.366	49.866	18.112	0.00	0.00
ATOM	885	O	ASP	X	57	35.165	50.238	18.986	0.00	0.00
ATOM	886	N	ALA	X	58	33.586	48.811	18.329	0.00	0.00
ATOM	887	H	ALA	X	58	33.044	48.435	17.564	0.00	0.00
ATOM	888	CA	ALA	X	58	33.593	48.062	19.621	0.00	0.00
ATOM	889	HA	ALA	X	58	34.374	48.489	20.250	0.00	0.00
ATOM	890	CB	ALA	X	58	32.185	48.356	20.335	0.00	0.00
ATOM	891	HB1	ALA	X	58	32.125	49.444	20.373	0.00	0.00
ATOM	892	HB2	ALA	X	58	32.196	47.960	21.350	0.00	0.00
ATOM	893	HB3	ALA	X	58	31.410	47.931	19.696	0.00	0.00
ATOM	894	C	ALA	X	58	33.868	46.591	19.384	0.00	0.00
ATOM	895	O	ALA	X	58	33.341	45.713	20.117	0.00	0.00
ATOM	896	N	THR	X	59	34.732	46.229	18.335	0.00	0.00
ATOM	897	H	THR	X	59	35.175	46.996	17.850	0.00	0.00
ATOM	898	CA	THR	X	59	34.902	44.858	17.784	0.00	0.00
ATOM	899	HA	THR	X	59	34.056	44.243	18.090	0.00	0.00
ATOM	900	CB	THR	X	59	34.995	44.813	16.258	0.00	0.00
ATOM	901	HB	THR	X	59	35.032	43.788	15.890	0.00	0.00
ATOM	902	CG2	THR	X	59	33.741	45.477	15.568	0.00	0.00
ATOM	903	HG21	THR	X	59	33.822	45.304	14.494	0.00	0.00
ATOM	904	HG22	THR	X	59	33.772	46.552	15.746	0.00	0.00
ATOM	905	HG23	THR	X	59	32.791	45.132	15.977	0.00	0.00
ATOM	906	OG1	THR	X	59	36.145	45.453	15.844	0.00	0.00
ATOM	907	HG1	THR	X	59	36.063	46.401	15.967	0.00	0.00
ATOM	908	C	THR	X	59	36.108	44.086	18.278	0.00	0.00
ATOM	909	O	THR	X	59	36.339	42.945	17.917	0.00	0.00
ATOM	910	N	THR	X	60	36.881	44.693	19.157	0.00	0.00
ATOM	911	H	THR	X	60	36.602	45.603	19.493	0.00	0.00
ATOM	912	CA	THR	X	60	37.998	44.064	19.791	0.00	0.00
ATOM	913	HA	THR	X	60	37.820	43.000	19.947	0.00	0.00
ATOM	914	CB	THR	X	60	39.319	44.216	18.903	0.00	0.00
ATOM	915	HB	THR	X	60	39.053	43.621	18.029	0.00	0.00
ATOM	916	CG2	THR	X	60	39.569	45.636	18.527	0.00	0.00
ATOM	917	HG21	THR	X	60	38.851	46.062	17.827	0.00	0.00
ATOM	918	HG22	THR	X	60	40.461	45.688	17.903	0.00	0.00
ATOM	919	HG23	THR	X	60	39.631	46.309	19.383	0.00	0.00
ATOM	920	OG1	THR	X	60	40.388	43.674	19.582	0.00	0.00
ATOM	921	HG1	THR	X	60	40.620	44.393	20.175	0.00	0.00
ATOM	922	C	THR	X	60	38.266	44.628	21.153	0.00	0.00
ATOM	923	O	THR	X	60	37.998	45.826	21.346	0.00	0.00
ATOM	924	N	PHE	X	61	38.896	43.880	22.081	0.00	0.00
ATOM	925	H	PHE	X	61	39.025	42.899	21.879	0.00	0.00
ATOM	926	CA	PHE	X	61	39.557	44.421	23.280	0.00	0.00
ATOM	927	HA	PHE	X	61	38.805	44.862	23.935	0.00	0.00
ATOM	928	CB	PHE	X	61	40.311	43.247	23.977	0.00	0.00
ATOM	929	HB2	PHE	X	61	40.936	42.827	23.190	0.00	0.00
ATOM	930	HB3	PHE	X	61	40.884	43.749	24.757	0.00	0.00
ATOM	931	CG	PHE	X	61	39.454	42.121	24.534	0.00	0.00
ATOM	932	CD1	PHE	X	61	38.602	42.505	25.521	0.00	0.00
ATOM	933	HD1	PHE	X	61	38.566	43.520	25.889	0.00	0.00
ATOM	934	CE1	PHE	X	61	37.726	41.461	26.034	0.00	0.00
ATOM	935	HE1	PHE	X	61	37.057	41.754	26.830	0.00	0.00

ATOM	936	CZ	PHE	X	61	37.901	40.153	25.610	0.00	0.00
ATOM	937	HZ	PHE	X	61	37.328	39.370	26.084	0.00	0.00
ATOM	938	CE2	PHE	X	61	38.891	39.801	24.684	0.00	0.00
ATOM	939	HE2	PHE	X	61	39.041	38.766	24.412	0.00	0.00
ATOM	940	CD2	PHE	X	61	39.673	40.792	24.103	0.00	0.00
ATOM	941	HD2	PHE	X	61	40.356	40.598	23.289	0.00	0.00
ATOM	942	C	PHE	X	61	40.658	45.466	22.891	0.00	0.00
ATOM	943	O	PHE	X	61	41.285	45.323	21.859	0.00	0.00
ATOM	944	N	GLN	X	62	40.759	46.522	23.731	0.00	0.00
ATOM	945	H	GLN	X	62	40.214	46.483	24.581	0.00	0.00
ATOM	946	CA	GLN	X	62	41.623	47.670	23.463	0.00	0.00
ATOM	947	HA	GLN	X	62	41.734	47.761	22.382	0.00	0.00
ATOM	948	CB	GLN	X	62	40.831	48.956	23.934	0.00	0.00
ATOM	949	HB2	GLN	X	62	39.855	48.647	24.306	0.00	0.00
ATOM	950	HB3	GLN	X	62	41.429	49.454	24.697	0.00	0.00
ATOM	951	CG	GLN	X	62	40.568	50.051	22.823	0.00	0.00
ATOM	952	HG2	GLN	X	62	40.299	49.568	21.884	0.00	0.00
ATOM	953	HG3	GLN	X	62	39.756	50.727	23.090	0.00	0.00
ATOM	954	CD	GLN	X	62	41.720	50.925	22.581	0.00	0.00
ATOM	955	OE1	GLN	X	62	42.865	50.484	22.380	0.00	0.00
ATOM	956	NE2	GLN	X	62	41.647	52.201	22.536	0.00	0.00
ATOM	957	HE21	GLN	X	62	42.545	52.602	22.306	0.00	0.00
ATOM	958	HE22	GLN	X	62	40.801	52.742	22.641	0.00	0.00
ATOM	959	C	GLN	X	62	43.005	47.495	24.170	0.00	0.00
ATOM	960	O	GLN	X	62	43.403	46.348	24.460	0.00	0.00
ATOM	961	N	SER	X	63	43.752	48.598	24.304	0.00	0.00
ATOM	962	H	SER	X	63	43.382	49.413	23.836	0.00	0.00
ATOM	963	CA	SER	X	63	45.053	48.759	24.941	0.00	0.00
ATOM	964	HA	SER	X	63	45.588	47.919	24.497	0.00	0.00
ATOM	965	CB	SER	X	63	45.706	50.117	24.571	0.00	0.00
ATOM	966	HB2	SER	X	63	45.003	50.864	24.940	0.00	0.00
ATOM	967	HB3	SER	X	63	46.669	50.155	25.080	0.00	0.00
ATOM	968	OG	SER	X	63	45.790	50.423	23.176	0.00	0.00
ATOM	969	HG	SER	X	63	44.905	50.650	22.882	0.00	0.00
ATOM	970	C	SER	X	63	45.014	48.546	26.428	0.00	0.00
ATOM	971	O	SER	X	63	44.133	49.175	27.094	0.00	0.00
ATOM	972	N	VAL	X	64	45.951	47.762	26.979	0.00	0.00
ATOM	973	H	VAL	X	64	46.757	47.463	26.449	0.00	0.00
ATOM	974	CA	VAL	X	64	45.926	47.290	28.379	0.00	0.00
ATOM	975	HA	VAL	X	64	44.887	47.306	28.708	0.00	0.00
ATOM	976	CB	VAL	X	64	46.525	45.862	28.500	0.00	0.00
ATOM	977	HB	VAL	X	64	47.468	45.960	27.962	0.00	0.00
ATOM	978	CG1	VAL	X	64	46.952	45.517	29.963	0.00	0.00
ATOM	979	HG11	VAL	X	64	47.757	46.171	30.299	0.00	0.00
ATOM	980	HG12	VAL	X	64	46.088	45.546	30.627	0.00	0.00
ATOM	981	HG13	VAL	X	64	47.361	44.509	29.895	0.00	0.00
ATOM	982	CG2	VAL	X	64	45.667	44.844	27.902	0.00	0.00
ATOM	983	HG21	VAL	X	64	45.556	45.038	26.835	0.00	0.00
ATOM	984	HG22	VAL	X	64	44.693	44.836	28.391	0.00	0.00
ATOM	985	HG23	VAL	X	64	46.168	43.877	27.874	0.00	0.00
ATOM	986	C	VAL	X	64	46.770	48.295	29.136	0.00	0.00
ATOM	987	O	VAL	X	64	47.727	48.848	28.597	0.00	0.00
ATOM	988	N	CYX	X	65	46.370	48.667	30.346	0.00	0.00
ATOM	989	H	CYX	X	65	45.543	48.196	30.684	0.00	0.00
ATOM	990	CA	CYX	X	65	46.928	49.706	31.203	0.00	0.00
ATOM	991	HA	CYX	X	65	47.000	50.628	30.625	0.00	0.00
ATOM	992	CB	CYX	X	65	46.061	49.913	32.456	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.928	48.948	32.945	0.00	0.00
ATOM	994	HB3	CYX	X	65	46.673	50.553	33.092	0.00	0.00
ATOM	995	SG	CYX	X	65	44.446	50.684	32.259	0.00	0.00
ATOM	996	C	CYX	X	65	48.398	49.323	31.554	0.00	0.00
ATOM	997	O	CYX	X	65	48.603	48.150	31.919	0.00	0.00
ATOM	998	N	TYR	X	66	49.352	50.277	31.505	0.00	0.00
ATOM	999	H	TYR	X	66	49.040	51.046	30.930	0.00	0.00
ATOM	1000	CA	TYR	X	66	50.771	50.060	31.605	0.00	0.00
ATOM	1001	HA	TYR	X	66	51.028	49.291	30.876	0.00	0.00
ATOM	1002	CB	TYR	X	66	51.544	51.338	31.300	0.00	0.00

ATOM	1003	HB2	TYR	X	66	50.959	52.017	30.680	0.00	0.00
ATOM	1004	HB3	TYR	X	66	51.663	51.824	32.268	0.00	0.00
ATOM	1005	CG	TYR	X	66	52.862	51.081	30.550	0.00	0.00
ATOM	1006	CD1	TYR	X	66	52.976	51.267	29.168	0.00	0.00
ATOM	1007	HD1	TYR	X	66	52.114	51.490	28.557	0.00	0.00
ATOM	1008	CE1	TYR	X	66	54.151	50.940	28.524	0.00	0.00
ATOM	1009	HE1	TYR	X	66	54.141	50.925	27.444	0.00	0.00
ATOM	1010	CZ	TYR	X	66	55.241	50.538	29.273	0.00	0.00
ATOM	1011	OH	TYR	X	66	56.395	50.240	28.577	0.00	0.00
ATOM	1012	HH	TYR	X	66	56.311	50.291	27.622	0.00	0.00
ATOM	1013	CE2	TYR	X	66	55.215	50.430	30.663	0.00	0.00
ATOM	1014	HE2	TYR	X	66	56.092	50.096	31.197	0.00	0.00
ATOM	1015	CD2	TYR	X	66	53.982	50.694	31.323	0.00	0.00
ATOM	1016	HD2	TYR	X	66	54.000	50.637	32.402	0.00	0.00
ATOM	1017	C	TYR	X	66	51.172	49.410	32.970	0.00	0.00
ATOM	1018	O	TYR	X	66	50.597	49.791	33.989	0.00	0.00
ATOM	1019	N	GLN	X	67	52.059	48.384	32.952	0.00	0.00
ATOM	1020	H	GLN	X	67	52.552	48.217	32.086	0.00	0.00
ATOM	1021	CA	GLN	X	67	52.224	47.465	34.042	0.00	0.00
ATOM	1022	HA	GLN	X	67	52.295	47.854	35.058	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.957	46.589	34.121	0.00	0.00
ATOM	1024	HB2	GLN	X	67	51.039	45.902	34.963	0.00	0.00
ATOM	1025	HB3	GLN	X	67	50.080	47.225	34.241	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.705	45.652	32.877	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.612	46.390	32.081	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.539	44.979	32.676	0.00	0.00
ATOM	1029	CD	GLN	X	67	49.464	44.886	33.086	0.00	0.00
ATOM	1030	OE1	GLN	X	67	49.413	43.713	33.441	0.00	0.00
ATOM	1031	NE2	GLN	X	67	48.314	45.536	32.851	0.00	0.00
ATOM	1032	HE21	GLN	X	67	47.430	45.099	33.071	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.312	46.494	32.532	0.00	0.00
ATOM	1034	C	GLN	X	67	53.508	46.596	33.856	0.00	0.00
ATOM	1035	O	GLN	X	67	54.053	46.566	32.733	0.00	0.00
ATOM	1036	N	TYR	X	68	53.933	45.878	34.864	0.00	0.00
ATOM	1037	H	TYR	X	68	53.429	45.916	35.738	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.972	44.795	34.731	0.00	0.00
ATOM	1039	HA	TYR	X	68	55.827	45.249	34.229	0.00	0.00
ATOM	1040	CB	TYR	X	68	55.470	44.554	36.130	0.00	0.00
ATOM	1041	HB2	TYR	X	68	55.854	45.488	36.538	0.00	0.00
ATOM	1042	HB3	TYR	X	68	54.650	44.199	36.756	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.536	43.464	36.177	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.846	43.637	35.748	0.00	0.00
ATOM	1045	HD1	TYR	X	68	58.184	44.617	35.448	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.855	42.648	35.556	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.889	42.812	35.290	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.443	41.381	36.129	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.430	40.429	36.281	0.00	0.00
ATOM	1050	HH	TYR	X	68	60.233	40.767	35.877	0.00	0.00
ATOM	1051	CE2	TYR	X	68	57.129	41.146	36.637	0.00	0.00
ATOM	1052	HE2	TYR	X	68	56.961	40.120	36.930	0.00	0.00
ATOM	1053	CD2	TYR	X	68	56.171	42.136	36.657	0.00	0.00
ATOM	1054	HD2	TYR	X	68	55.139	41.996	36.944	0.00	0.00
ATOM	1055	C	TYR	X	68	54.440	43.572	34.003	0.00	0.00
ATOM	1056	O	TYR	X	68	53.202	43.344	33.943	0.00	0.00
ATOM	1057	N	VAL	X	69	55.384	42.828	33.417	0.00	0.00
ATOM	1058	H	VAL	X	69	56.344	43.123	33.526	0.00	0.00
ATOM	1059	CA	VAL	X	69	55.146	41.585	32.658	0.00	0.00
ATOM	1060	HA	VAL	X	69	54.127	41.220	32.793	0.00	0.00
ATOM	1061	CB	VAL	X	69	55.381	41.746	31.146	0.00	0.00
ATOM	1062	HB	VAL	X	69	56.415	42.027	30.945	0.00	0.00
ATOM	1063	CG1	VAL	X	69	55.250	40.444	30.316	0.00	0.00
ATOM	1064	HG11	VAL	X	69	55.949	39.648	30.571	0.00	0.00
ATOM	1065	HG12	VAL	X	69	54.272	39.992	30.476	0.00	0.00
ATOM	1066	HG13	VAL	X	69	55.326	40.723	29.265	0.00	0.00
ATOM	1067	CG2	VAL	X	69	54.471	42.774	30.525	0.00	0.00
ATOM	1068	HG21	VAL	X	69	54.577	42.830	29.442	0.00	0.00
ATOM	1069	HG22	VAL	X	69	54.690	43.741	30.979	0.00	0.00

ATOM	1070	HG23	VAL	X	69	53.409	42.551	30.628	0.00	0.00
ATOM	1071	C	VAL	X	69	56.084	40.460	33.217	0.00	0.00
ATOM	1072	O	VAL	X	69	57.241	40.762	33.459	0.00	0.00
ATOM	1073	N	ASP	X	70	55.492	39.319	33.474	0.00	0.00
ATOM	1074	H	ASP	X	70	54.531	39.250	33.171	0.00	0.00
ATOM	1075	CA	ASP	X	70	56.112	38.251	34.249	0.00	0.00
ATOM	1076	HA	ASP	X	70	56.749	38.687	35.018	0.00	0.00
ATOM	1077	CB	ASP	X	70	55.138	37.357	34.953	0.00	0.00
ATOM	1078	HB2	ASP	X	70	54.619	37.872	35.762	0.00	0.00
ATOM	1079	HB3	ASP	X	70	54.322	37.042	34.304	0.00	0.00
ATOM	1080	CG	ASP	X	70	55.704	36.071	35.615	0.00	0.00
ATOM	1081	OD1	ASP	X	70	56.956	35.862	35.593	0.00	0.00
ATOM	1082	OD2	ASP	X	70	54.927	35.402	36.307	0.00	0.00
ATOM	1083	C	ASP	X	70	57.057	37.396	33.350	0.00	0.00
ATOM	1084	O	ASP	X	70	56.613	36.581	32.515	0.00	0.00
ATOM	1085	N	THR	X	71	58.403	37.575	33.489	0.00	0.00
ATOM	1086	H	THR	X	71	58.811	38.198	34.171	0.00	0.00
ATOM	1087	CA	THR	X	71	59.390	36.769	32.762	0.00	0.00
ATOM	1088	HA	THR	X	71	58.824	36.136	32.079	0.00	0.00
ATOM	1089	CB	THR	X	71	60.211	37.688	31.834	0.00	0.00
ATOM	1090	HB	THR	X	71	60.757	37.050	31.140	0.00	0.00
ATOM	1091	CG2	THR	X	71	59.312	38.651	31.049	0.00	0.00
ATOM	1092	HG21	THR	X	71	58.871	39.380	31.729	0.00	0.00
ATOM	1093	HG22	THR	X	71	58.550	38.074	30.524	0.00	0.00
ATOM	1094	HG23	THR	X	71	59.929	39.132	30.290	0.00	0.00
ATOM	1095	OG1	THR	X	71	61.076	38.332	32.697	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.607	37.594	33.007	0.00	0.00
ATOM	1097	C	THR	X	71	60.111	35.821	33.646	0.00	0.00
ATOM	1098	O	THR	X	71	61.305	35.712	33.452	0.00	0.00
ATOM	1099	N	LEU	X	72	59.571	35.263	34.661	0.00	0.00
ATOM	1100	H	LEU	X	72	58.612	35.451	34.916	0.00	0.00
ATOM	1101	CA	LEU	X	72	60.230	34.274	35.498	0.00	0.00
ATOM	1102	HA	LEU	X	72	61.263	34.532	35.728	0.00	0.00
ATOM	1103	CB	LEU	X	72	59.368	34.013	36.717	0.00	0.00
ATOM	1104	HB2	LEU	X	72	59.442	34.933	37.296	0.00	0.00
ATOM	1105	HB3	LEU	X	72	58.355	33.697	36.465	0.00	0.00
ATOM	1106	CG	LEU	X	72	60.012	32.859	37.547	0.00	0.00
ATOM	1107	HG	LEU	X	72	59.945	31.987	36.896	0.00	0.00
ATOM	1108	CD1	LEU	X	72	61.425	33.079	38.134	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.149	33.372	37.374	0.00	0.00
ATOM	1110	HD12	LEU	X	72	61.676	32.235	38.777	0.00	0.00
ATOM	1111	HD13	LEU	X	72	61.315	33.873	38.872	0.00	0.00
ATOM	1112	CD2	LEU	X	72	59.082	32.485	38.691	0.00	0.00
ATOM	1113	HD21	LEU	X	72	58.088	32.326	38.274	0.00	0.00
ATOM	1114	HD22	LEU	X	72	59.443	31.549	39.119	0.00	0.00
ATOM	1115	HD23	LEU	X	72	58.941	33.340	39.352	0.00	0.00
ATOM	1116	C	LEU	X	72	60.430	32.987	34.630	0.00	0.00
ATOM	1117	O	LEU	X	72	61.501	32.409	34.597	0.00	0.00
ATOM	1118	N	TYR	X	73	59.387	32.622	33.866	0.00	0.00
ATOM	1119	H	TYR	X	73	58.552	33.175	33.995	0.00	0.00
ATOM	1120	CA	TYR	X	73	59.350	31.468	32.941	0.00	0.00
ATOM	1121	HA	TYR	X	73	60.351	31.059	32.811	0.00	0.00
ATOM	1122	CB	TYR	X	73	58.478	30.305	33.493	0.00	0.00
ATOM	1123	HB2	TYR	X	73	57.456	30.648	33.648	0.00	0.00
ATOM	1124	HB3	TYR	X	73	58.519	29.453	32.814	0.00	0.00
ATOM	1125	CG	TYR	X	73	58.963	29.826	34.807	0.00	0.00
ATOM	1126	CD1	TYR	X	73	60.161	29.090	34.968	0.00	0.00
ATOM	1127	HD1	TYR	X	73	60.855	28.995	34.147	0.00	0.00
ATOM	1128	CE1	TYR	X	73	60.506	28.462	36.225	0.00	0.00
ATOM	1129	HE1	TYR	X	73	61.429	27.917	36.356	0.00	0.00
ATOM	1130	CZ	TYR	X	73	59.635	28.649	37.323	0.00	0.00
ATOM	1131	OH	TYR	X	73	59.896	28.102	38.513	0.00	0.00
ATOM	1132	HH	TYR	X	73	59.220	28.379	39.135	0.00	0.00
ATOM	1133	CE2	TYR	X	73	58.437	29.400	37.139	0.00	0.00
ATOM	1134	HE2	TYR	X	73	57.835	29.672	37.993	0.00	0.00
ATOM	1135	CD2	TYR	X	73	58.157	29.987	35.935	0.00	0.00
ATOM	1136	HD2	TYR	X	73	57.220	30.522	35.904	0.00	0.00

ATOM	1137	C	TYR	X	73	58.904	31.766	31.466	0.00	0.00
ATOM	1138	O	TYR	X	73	57.784	31.527	31.153	0.00	0.00
ATOM	1139	N	PRO	X	74	59.787	32.406	30.699	0.00	0.00
ATOM	1140	CD	PRO	X	74	61.201	32.891	30.962	0.00	0.00
ATOM	1141	HD2	PRO	X	74	61.757	31.960	30.852	0.00	0.00
ATOM	1142	HD3	PRO	X	74	61.293	33.249	31.987	0.00	0.00
ATOM	1143	CG	PRO	X	74	61.457	33.924	29.917	0.00	0.00
ATOM	1144	HG2	PRO	X	74	62.519	34.059	29.710	0.00	0.00
ATOM	1145	HG3	PRO	X	74	60.961	34.851	30.202	0.00	0.00
ATOM	1146	CB	PRO	X	74	60.704	33.321	28.744	0.00	0.00
ATOM	1147	HB2	PRO	X	74	61.345	32.631	28.197	0.00	0.00
ATOM	1148	HB3	PRO	X	74	60.397	34.042	27.986	0.00	0.00
ATOM	1149	CA	PRO	X	74	59.463	32.674	29.315	0.00	0.00
ATOM	1150	HA	PRO	X	74	58.631	33.377	29.346	0.00	0.00
ATOM	1151	C	PRO	X	74	59.082	31.352	28.612	0.00	0.00
ATOM	1152	O	PRO	X	74	59.675	30.308	28.989	0.00	0.00
ATOM	1153	N	GLY	X	75	58.257	31.431	27.548	0.00	0.00
ATOM	1154	H	GLY	X	75	57.748	32.272	27.314	0.00	0.00
ATOM	1155	CA	GLY	X	75	57.866	30.199	26.775	0.00	0.00
ATOM	1156	HA2	GLY	X	75	57.419	30.536	25.840	0.00	0.00
ATOM	1157	HA3	GLY	X	75	58.775	29.649	26.530	0.00	0.00
ATOM	1158	C	GLY	X	75	56.892	29.213	27.404	0.00	0.00
ATOM	1159	O	GLY	X	75	56.406	28.320	26.738	0.00	0.00
ATOM	1160	N	PHE	X	76	56.687	29.410	28.721	0.00	0.00
ATOM	1161	H	PHE	X	76	57.108	30.209	29.171	0.00	0.00
ATOM	1162	CA	PHE	X	76	55.769	28.562	29.542	0.00	0.00
ATOM	1163	HA	PHE	X	76	55.662	27.621	29.003	0.00	0.00
ATOM	1164	CB	PHE	X	76	56.483	28.364	30.874	0.00	0.00
ATOM	1165	HB2	PHE	X	76	57.414	27.810	30.761	0.00	0.00
ATOM	1166	HB3	PHE	X	76	56.803	29.308	31.316	0.00	0.00
ATOM	1167	CG	PHE	X	76	55.647	27.628	31.853	0.00	0.00
ATOM	1168	CD1	PHE	X	76	55.331	26.288	31.679	0.00	0.00
ATOM	1169	HD1	PHE	X	76	55.680	25.741	30.815	0.00	0.00
ATOM	1170	CE1	PHE	X	76	54.594	25.539	32.614	0.00	0.00
ATOM	1171	HE1	PHE	X	76	54.339	24.490	32.578	0.00	0.00
ATOM	1172	CZ	PHE	X	76	54.156	26.193	33.821	0.00	0.00
ATOM	1173	HZ	PHE	X	76	53.505	25.707	34.533	0.00	0.00
ATOM	1174	CE2	PHE	X	76	54.481	27.507	34.010	0.00	0.00
ATOM	1175	HE2	PHE	X	76	54.171	28.038	34.898	0.00	0.00
ATOM	1176	CD2	PHE	X	76	55.289	28.235	33.088	0.00	0.00
ATOM	1177	HD2	PHE	X	76	55.530	29.271	33.279	0.00	0.00
ATOM	1178	C	PHE	X	76	54.365	29.129	29.780	0.00	0.00
ATOM	1179	O	PHE	X	76	54.249	30.241	30.266	0.00	0.00
ATOM	1180	N	GLU	X	77	53.342	28.319	29.417	0.00	0.00
ATOM	1181	H	GLU	X	77	53.602	27.458	28.958	0.00	0.00
ATOM	1182	CA	GLU	X	77	51.921	28.635	29.490	0.00	0.00
ATOM	1183	HA	GLU	X	77	51.698	29.378	28.724	0.00	0.00
ATOM	1184	CB	GLU	X	77	51.055	27.424	29.161	0.00	0.00
ATOM	1185	HB2	GLU	X	77	51.340	26.967	28.214	0.00	0.00
ATOM	1186	HB3	GLU	X	77	51.212	26.568	29.817	0.00	0.00
ATOM	1187	CG	GLU	X	77	49.535	27.742	29.026	0.00	0.00
ATOM	1188	HG2	GLU	X	77	49.131	28.267	29.892	0.00	0.00
ATOM	1189	HG3	GLU	X	77	49.321	28.409	28.190	0.00	0.00
ATOM	1190	CD	GLU	X	77	48.754	26.449	28.918	0.00	0.00
ATOM	1191	OE1	GLU	X	77	48.709	25.657	29.896	0.00	0.00
ATOM	1192	OE2	GLU	X	77	48.131	26.151	27.845	0.00	0.00
ATOM	1193	C	GLU	X	77	51.587	29.229	30.866	0.00	0.00
ATOM	1194	O	GLU	X	77	51.006	30.271	30.886	0.00	0.00
ATOM	1195	N	GLY	X	78	51.873	28.594	31.995	0.00	0.00
ATOM	1196	H	GLY	X	78	52.307	27.682	31.999	0.00	0.00
ATOM	1197	CA	GLY	X	78	51.347	29.004	33.315	0.00	0.00
ATOM	1198	HA2	GLY	X	78	50.260	28.976	33.382	0.00	0.00
ATOM	1199	HA3	GLY	X	78	51.760	28.344	34.078	0.00	0.00
ATOM	1200	C	GLY	X	78	51.727	30.390	33.749	0.00	0.00
ATOM	1201	O	GLY	X	78	51.049	30.820	34.670	0.00	0.00
ATOM	1202	N	THR	X	79	52.668	31.045	33.086	0.00	0.00
ATOM	1203	H	THR	X	79	53.040	30.551	32.288	0.00	0.00

ATOM	1204	CA	THR	X	79	53.092	32.454	33.187	0.00	0.00
ATOM	1205	HA	THR	X	79	52.716	32.899	34.108	0.00	0.00
ATOM	1206	CB	THR	X	79	54.636	32.394	33.236	0.00	0.00
ATOM	1207	HB	THR	X	79	55.089	31.817	32.430	0.00	0.00
ATOM	1208	CG2	THR	X	79	55.234	33.797	33.117	0.00	0.00
ATOM	1209	HG21	THR	X	79	56.248	33.829	33.516	0.00	0.00
ATOM	1210	HG22	THR	X	79	54.761	34.534	33.766	0.00	0.00
ATOM	1211	HG23	THR	X	79	55.105	34.127	32.086	0.00	0.00
ATOM	1212	OG1	THR	X	79	54.876	31.878	34.502	0.00	0.00
ATOM	1213	HG1	THR	X	79	54.952	32.657	35.059	0.00	0.00
ATOM	1214	C	THR	X	79	52.458	33.244	32.044	0.00	0.00
ATOM	1215	O	THR	X	79	51.660	34.180	32.293	0.00	0.00
ATOM	1216	N	GLU	X	80	52.756	32.855	30.814	0.00	0.00
ATOM	1217	H	GLU	X	80	53.352	32.047	30.702	0.00	0.00
ATOM	1218	CA	GLU	X	80	52.454	33.632	29.645	0.00	0.00
ATOM	1219	HA	GLU	X	80	52.809	34.659	29.733	0.00	0.00
ATOM	1220	CB	GLU	X	80	53.160	32.975	28.460	0.00	0.00
ATOM	1221	HB2	GLU	X	80	52.866	31.936	28.309	0.00	0.00
ATOM	1222	HB3	GLU	X	80	52.898	33.636	27.635	0.00	0.00
ATOM	1223	CG	GLU	X	80	54.713	33.083	28.540	0.00	0.00
ATOM	1224	HG2	GLU	X	80	55.016	34.114	28.718	0.00	0.00
ATOM	1225	HG3	GLU	X	80	55.072	32.552	29.421	0.00	0.00
ATOM	1226	CD	GLU	X	80	55.402	32.726	27.196	0.00	0.00
ATOM	1227	OE1	GLU	X	80	55.002	31.758	26.535	0.00	0.00
ATOM	1228	OE2	GLU	X	80	56.268	33.525	26.743	0.00	0.00
ATOM	1229	C	GLU	X	80	50.944	33.740	29.426	0.00	0.00
ATOM	1230	O	GLU	X	80	50.503	34.627	28.697	0.00	0.00
ATOM	1231	N	MET	X	81	50.138	32.852	29.907	0.00	0.00
ATOM	1232	H	MET	X	81	50.536	32.044	30.365	0.00	0.00
ATOM	1233	CA	MET	X	81	48.647	33.067	29.851	0.00	0.00
ATOM	1234	HA	MET	X	81	48.377	33.094	28.796	0.00	0.00
ATOM	1235	CB	MET	X	81	47.917	31.820	30.422	0.00	0.00
ATOM	1236	HB2	MET	X	81	46.845	31.963	30.290	0.00	0.00
ATOM	1237	HB3	MET	X	81	48.208	31.000	29.765	0.00	0.00
ATOM	1238	CG	MET	X	81	48.168	31.461	31.936	0.00	0.00
ATOM	1239	HG2	MET	X	81	49.249	31.397	32.060	0.00	0.00
ATOM	1240	HD3	MET	X	81	47.825	32.304	32.536	0.00	0.00
ATOM	1241	SD	MET	X	81	47.422	29.947	32.561	0.00	0.00
ATOM	1242	CE	MET	X	81	45.681	30.462	32.717	0.00	0.00
ATOM	1243	HE1	MET	X	81	45.109	29.582	33.010	0.00	0.00
ATOM	1244	HE2	MET	X	81	45.616	31.183	33.533	0.00	0.00
ATOM	1245	HE3	MET	X	81	45.289	30.928	31.812	0.00	0.00
ATOM	1246	C	MET	X	81	48.213	34.358	30.486	0.00	0.00
ATOM	1247	O	MET	X	81	47.532	35.147	29.797	0.00	0.00
ATOM	1248	N	TRP	X	82	48.745	34.773	31.662	0.00	0.00
ATOM	1249	H	TRP	X	82	49.321	34.173	32.235	0.00	0.00
ATOM	1250	CA	TRP	X	82	48.361	35.963	32.432	0.00	0.00
ATOM	1251	HA	TRP	X	82	47.284	36.092	32.541	0.00	0.00
ATOM	1252	CB	TRP	X	82	48.930	35.683	33.832	0.00	0.00
ATOM	1253	HB2	TRP	X	82	50.014	35.589	33.767	0.00	0.00
ATOM	1254	HB3	TRP	X	82	48.823	36.608	34.399	0.00	0.00
ATOM	1255	CG	TRP	X	82	48.304	34.469	34.576	0.00	0.00
ATOM	1256	CD1	TRP	X	82	49.024	33.360	34.839	0.00	0.00
ATOM	1257	HD1	TRP	X	82	50.048	33.215	34.529	0.00	0.00
ATOM	1258	NE1	TRP	X	82	48.183	32.380	35.318	0.00	0.00
ATOM	1259	HE1	TRP	X	82	48.509	31.468	35.604	0.00	0.00
ATOM	1260	CE2	TRP	X	82	46.954	32.892	35.620	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	45.784	32.365	36.230	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	45.789	31.344	36.582	0.00	0.00
ATOM	1263	CH2	TRP	X	82	44.620	33.182	36.244	0.00	0.00
ATOM	1264	HH2	TRP	X	82	43.695	32.782	36.632	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	44.657	34.438	35.672	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	43.758	35.033	35.718	0.00	0.00
ATOM	1267	CE3	TRP	X	82	45.797	34.990	35.091	0.00	0.00
ATOM	1268	HE3	TRP	X	82	45.843	36.015	34.754	0.00	0.00
ATOM	1269	CD2	TRP	X	82	47.005	34.225	35.051	0.00	0.00
ATOM	1270	C	TRP	X	82	49.060	37.268	31.898	0.00	0.00

ATOM	1271	O	TRP	X	82	48.435	38.325	31.958	0.00	0.00
ATOM	1272	N	ASN	X	83	50.221	37.095	31.262	0.00	0.00
ATOM	1273	H	ASN	X	83	50.765	36.257	31.412	0.00	0.00
ATOM	1274	CA	ASN	X	83	50.753	38.216	30.589	0.00	0.00
ATOM	1275	HA	ASN	X	83	50.975	39.006	31.306	0.00	0.00
ATOM	1276	CB	ASN	X	83	52.199	37.798	30.096	0.00	0.00
ATOM	1277	HB2	ASN	X	83	52.206	36.844	29.569	0.00	0.00
ATOM	1278	HB3	ASN	X	83	52.614	38.568	29.444	0.00	0.00
ATOM	1279	CG	ASN	X	83	53.272	37.655	31.162	0.00	0.00
ATOM	1280	OD1	ASN	X	83	53.158	38.207	32.246	0.00	0.00
ATOM	1281	ND2	ASN	X	83	54.263	36.881	30.878	0.00	0.00
ATOM	1282	HD21	ASN	X	83	55.024	36.793	31.536	0.00	0.00
ATOM	1283	HD22	ASN	X	83	54.318	36.501	29.944	0.00	0.00
ATOM	1284	C	ASN	X	83	49.888	38.742	29.423	0.00	0.00
ATOM	1285	O	ASN	X	83	49.129	38.004	28.775	0.00	0.00
ATOM	1286	N	PRO	X	84	49.969	40.073	29.118	0.00	0.00
ATOM	1287	CD	PRO	X	84	50.754	41.060	29.799	0.00	0.00
ATOM	1288	HD2	PRO	X	84	51.721	40.654	30.095	0.00	0.00
ATOM	1289	HD3	PRO	X	84	50.293	41.214	30.774	0.00	0.00
ATOM	1290	CG	PRO	X	84	50.719	42.306	28.836	0.00	0.00
ATOM	1291	HG2	PRO	X	84	51.410	42.159	28.006	0.00	0.00
ATOM	1292	HG3	PRO	X	84	50.983	43.226	29.357	0.00	0.00
ATOM	1293	CB	PRO	X	84	49.310	42.245	28.369	0.00	0.00
ATOM	1294	HB2	PRO	X	84	49.170	42.771	27.425	0.00	0.00
ATOM	1295	HB3	PRO	X	84	48.664	42.624	29.161	0.00	0.00
ATOM	1296	CA	PRO	X	84	49.025	40.752	28.255	0.00	0.00
ATOM	1297	HA	PRO	X	84	48.010	40.579	28.610	0.00	0.00
ATOM	1298	C	PRO	X	84	49.071	40.243	26.764	0.00	0.00
ATOM	1299	O	PRO	X	84	50.055	39.578	26.368	0.00	0.00
ATOM	1300	N	ASN	X	85	48.039	40.515	26.001	0.00	0.00
ATOM	1301	H	ASN	X	85	47.199	40.912	26.397	0.00	0.00
ATOM	1302	CA	ASN	X	85	47.946	40.048	24.539	0.00	0.00
ATOM	1303	HA	ASN	X	85	48.979	39.803	24.293	0.00	0.00
ATOM	1304	CB	ASN	X	85	47.095	38.777	24.398	0.00	0.00
ATOM	1305	HB2	ASN	X	85	47.245	38.310	23.425	0.00	0.00
ATOM	1306	HB3	ASN	X	85	47.415	38.065	25.159	0.00	0.00
ATOM	1307	CG	ASN	X	85	45.609	39.120	24.632	0.00	0.00
ATOM	1308	OD1	ASN	X	85	44.995	39.731	23.736	0.00	0.00
ATOM	1309	ND2	ASN	X	85	45.080	38.916	25.812	0.00	0.00
ATOM	1310	HD21	ASN	X	85	44.085	39.041	25.931	0.00	0.00
ATOM	1311	HD22	ASN	X	85	45.577	38.429	26.544	0.00	0.00
ATOM	1312	C	ASN	X	85	47.517	41.184	23.595	0.00	0.00
ATOM	1313	O	ASN	X	85	47.452	40.974	22.385	0.00	0.00
ATOM	1314	N	ARG	X	86	47.335	42.337	24.183	0.00	0.00
ATOM	1315	H	ARG	X	86	47.466	42.386	25.183	0.00	0.00
ATOM	1316	CA	ARG	X	86	47.122	43.575	23.538	0.00	0.00
ATOM	1317	HA	ARG	X	86	47.233	43.395	22.469	0.00	0.00
ATOM	1318	CB	ARG	X	86	45.709	44.093	23.738	0.00	0.00
ATOM	1319	HB2	ARG	X	86	45.460	44.294	24.780	0.00	0.00
ATOM	1320	HB3	ARG	X	86	45.545	45.067	23.278	0.00	0.00
ATOM	1321	CG	ARG	X	86	44.524	43.269	23.273	0.00	0.00
ATOM	1322	HG2	ARG	X	86	44.394	42.475	24.008	0.00	0.00
ATOM	1323	HG3	ARG	X	86	43.646	43.909	23.361	0.00	0.00
ATOM	1324	CD	ARG	X	86	44.556	42.699	21.871	0.00	0.00
ATOM	1325	HD2	ARG	X	86	44.825	43.571	21.275	0.00	0.00
ATOM	1326	HD3	ARG	X	86	45.320	41.921	21.863	0.00	0.00
ATOM	1327	NE	ARG	X	86	43.246	42.364	21.300	0.00	0.00
ATOM	1328	HE	ARG	X	86	42.668	43.124	20.969	0.00	0.00
ATOM	1329	CZ	ARG	X	86	42.727	41.157	21.009	0.00	0.00
ATOM	1330	NH1	ARG	X	86	43.281	40.055	21.484	0.00	0.00
ATOM	1331	HH11	ARG	X	86	43.948	40.047	22.243	0.00	0.00
ATOM	1332	HH12	ARG	X	86	42.766	39.269	21.116	0.00	0.00
ATOM	1333	NH2	ARG	X	86	41.615	41.150	20.309	0.00	0.00
ATOM	1334	HH21	ARG	X	86	41.234	41.987	19.891	0.00	0.00
ATOM	1335	HH22	ARG	X	86	41.214	40.249	20.093	0.00	0.00
ATOM	1336	C	ARG	X	86	48.140	44.649	24.025	0.00	0.00
ATOM	1337	O	ARG	X	86	48.780	44.558	25.080	0.00	0.00

ATOM	1338	N	GLU	X	87	48.455	45.636	23.127	0.00	0.00
ATOM	1339	H	GLU	X	87	47.893	45.649	22.287	0.00	0.00
ATOM	1340	CA	GLU	X	87	49.477	46.678	23.298	0.00	0.00
ATOM	1341	HA	GLU	X	87	50.409	46.113	23.305	0.00	0.00
ATOM	1342	CB	GLU	X	87	49.459	47.662	22.088	0.00	0.00
ATOM	1343	HB2	GLU	X	87	49.078	47.047	21.272	0.00	0.00
ATOM	1344	HB3	GLU	X	87	48.800	48.513	22.254	0.00	0.00
ATOM	1345	CG	GLU	X	87	50.878	48.062	21.729	0.00	0.00
ATOM	1346	HG2	GLU	X	87	51.270	48.780	22.449	0.00	0.00
ATOM	1347	HG3	GLU	X	87	51.479	47.154	21.690	0.00	0.00
ATOM	1348	CD	GLU	X	87	50.858	48.662	20.304	0.00	0.00
ATOM	1349	OE1	GLU	X	87	50.919	47.857	19.321	0.00	0.00
ATOM	1350	OE2	GLU	X	87	50.672	49.887	20.112	0.00	0.00
ATOM	1351	C	GLU	X	87	49.328	47.442	24.595	0.00	0.00
ATOM	1352	O	GLU	X	87	48.185	47.642	24.998	0.00	0.00
ATOM	1353	N	LEU	X	88	50.423	47.944	25.220	0.00	0.00
ATOM	1354	H	LEU	X	88	51.329	47.962	24.773	0.00	0.00
ATOM	1355	CA	LEU	X	88	50.362	48.557	26.523	0.00	0.00
ATOM	1356	HA	LEU	X	88	49.460	48.248	27.053	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.582	48.206	27.353	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.404	48.306	26.645	0.00	0.00
ATOM	1359	HB3	LEU	X	88	51.604	48.952	28.147	0.00	0.00
ATOM	1360	CG	LEU	X	88	51.616	46.812	27.962	0.00	0.00
ATOM	1361	HG	LEU	X	88	51.481	46.089	27.158	0.00	0.00
ATOM	1362	CD1	LEU	X	88	52.999	46.502	28.563	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.190	47.242	29.341	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.778	46.387	27.809	0.00	0.00
ATOM	1365	HD13	LEU	X	88	53.027	45.516	29.027	0.00	0.00
ATOM	1366	CD2	LEU	X	88	50.553	46.620	29.031	0.00	0.00
ATOM	1367	HD21	LEU	X	88	49.539	46.583	28.631	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.699	45.633	29.469	0.00	0.00
ATOM	1369	HD23	LEU	X	88	50.685	47.297	29.875	0.00	0.00
ATOM	1370	C	LEU	X	88	50.331	50.085	26.440	0.00	0.00
ATOM	1371	O	LEU	X	88	50.806	50.561	25.422	0.00	0.00
ATOM	1372	N	SER	X	89	49.588	50.772	27.314	0.00	0.00
ATOM	1373	H	SER	X	89	49.001	50.202	27.906	0.00	0.00
ATOM	1374	CA	SER	X	89	49.316	52.237	27.170	0.00	0.00
ATOM	1375	HA	SER	X	89	50.159	52.794	26.760	0.00	0.00
ATOM	1376	CB	SER	X	89	48.118	52.327	26.207	0.00	0.00
ATOM	1377	HB2	SER	X	89	48.352	51.778	25.295	0.00	0.00
ATOM	1378	HB3	SER	X	89	47.242	51.845	26.640	0.00	0.00
ATOM	1379	OG	SER	X	89	47.905	53.696	25.799	0.00	0.00
ATOM	1380	HG	SER	X	89	46.962	53.871	25.840	0.00	0.00
ATOM	1381	C	SER	X	89	48.884	52.747	28.547	0.00	0.00
ATOM	1382	O	SER	X	89	48.465	51.962	29.364	0.00	0.00
ATOM	1383	N	GLU	X	90	48.896	54.091	28.718	0.00	0.00
ATOM	1384	H	GLU	X	90	49.203	54.630	27.921	0.00	0.00
ATOM	1385	CA	GLU	X	90	48.143	54.798	29.750	0.00	0.00
ATOM	1386	HA	GLU	X	90	47.983	54.056	30.533	0.00	0.00
ATOM	1387	CB	GLU	X	90	49.026	56.008	30.225	0.00	0.00
ATOM	1388	HB2	GLU	X	90	49.332	56.669	29.414	0.00	0.00
ATOM	1389	HB3	GLU	X	90	48.448	56.611	30.925	0.00	0.00
ATOM	1390	CG	GLU	X	90	50.227	55.526	31.010	0.00	0.00
ATOM	1391	HG2	GLU	X	90	49.903	54.994	31.905	0.00	0.00
ATOM	1392	HG3	GLU	X	90	50.854	54.875	30.401	0.00	0.00
ATOM	1393	CD	GLU	X	90	51.103	56.636	31.458	0.00	0.00
ATOM	1394	OE1	GLU	X	90	50.756	57.184	32.514	0.00	0.00
ATOM	1395	OE2	GLU	X	90	52.130	56.891	30.824	0.00	0.00
ATOM	1396	C	GLU	X	90	46.782	55.346	29.283	0.00	0.00
ATOM	1397	O	GLU	X	90	45.878	55.509	30.054	0.00	0.00
ATOM	1398	N	ASP	X	91	46.622	55.550	27.979	0.00	0.00
ATOM	1399	H	ASP	X	91	47.481	55.330	27.496	0.00	0.00
ATOM	1400	CA	ASP	X	91	45.343	55.556	27.221	0.00	0.00
ATOM	1401	HA	ASP	X	91	44.555	56.101	27.740	0.00	0.00
ATOM	1402	CB	ASP	X	91	45.604	56.145	25.878	0.00	0.00
ATOM	1403	HB2	ASP	X	91	46.234	57.024	26.011	0.00	0.00
ATOM	1404	HB3	ASP	X	91	46.163	55.428	25.276	0.00	0.00

ATOM	1405	CG	ASP	X	91	44.345	56.616	25.136	0.00	0.00
ATOM	1406	OD1	ASP	X	91	43.313	55.899	25.073	0.00	0.00
ATOM	1407	OD2	ASP	X	91	44.491	57.723	24.614	0.00	0.00
ATOM	1408	C	ASP	X	91	44.673	54.125	27.113	0.00	0.00
ATOM	1409	O	ASP	X	91	44.924	53.396	26.116	0.00	0.00
ATOM	1410	N	CYX	X	92	44.068	53.738	28.227	0.00	0.00
ATOM	1411	H	CYX	X	92	44.065	54.408	28.983	0.00	0.00
ATOM	1412	CA	CYX	X	92	43.712	52.368	28.553	0.00	0.00
ATOM	1413	HA	CYX	X	92	43.641	51.812	27.618	0.00	0.00
ATOM	1414	CB	CYX	X	92	44.799	51.814	29.491	0.00	0.00
ATOM	1415	HB2	CYX	X	92	44.798	50.725	29.533	0.00	0.00
ATOM	1416	HB3	CYX	X	92	45.753	52.112	29.057	0.00	0.00
ATOM	1417	SG	CYX	X	92	44.893	52.383	31.247	0.00	0.00
ATOM	1418	C	CYX	X	92	42.340	52.170	29.249	0.00	0.00
ATOM	1419	O	CYX	X	92	41.916	51.036	29.407	0.00	0.00
ATOM	1420	N	LEU	X	93	41.608	53.196	29.644	0.00	0.00
ATOM	1421	H	LEU	X	93	41.957	54.099	29.356	0.00	0.00
ATOM	1422	CA	LEU	X	93	40.331	53.114	30.374	0.00	0.00
ATOM	1423	HA	LEU	X	93	40.424	52.310	31.105	0.00	0.00
ATOM	1424	CB	LEU	X	93	40.162	54.371	31.282	0.00	0.00
ATOM	1425	HB2	LEU	X	93	40.051	55.280	30.690	0.00	0.00
ATOM	1426	HB3	LEU	X	93	39.156	54.253	31.685	0.00	0.00
ATOM	1427	CG	LEU	X	93	41.192	54.499	32.471	0.00	0.00
ATOM	1428	HG	LEU	X	93	42.131	54.691	31.951	0.00	0.00
ATOM	1429	CD1	LEU	X	93	40.816	55.583	33.436	0.00	0.00
ATOM	1430	HD11	LEU	X	93	40.673	56.545	32.944	0.00	0.00
ATOM	1431	HD12	LEU	X	93	41.470	55.731	34.296	0.00	0.00
ATOM	1432	HD13	LEU	X	93	39.848	55.339	33.872	0.00	0.00
ATOM	1433	CD2	LEU	X	93	41.398	53.200	33.311	0.00	0.00
ATOM	1434	HD21	LEU	X	93	40.396	52.947	33.656	0.00	0.00
ATOM	1435	HD22	LEU	X	93	41.842	52.350	32.792	0.00	0.00
ATOM	1436	HD23	LEU	X	93	42.046	53.439	34.154	0.00	0.00
ATOM	1437	C	LEU	X	93	39.138	52.763	29.409	0.00	0.00
ATOM	1438	O	LEU	X	93	38.216	53.521	29.171	0.00	0.00
ATOM	1439	N	TYR	X	94	39.157	51.519	28.945	0.00	0.00
ATOM	1440	H	TYR	X	94	39.943	50.920	29.153	0.00	0.00
ATOM	1441	CA	TYR	X	94	38.146	50.924	28.195	0.00	0.00
ATOM	1442	HA	TYR	X	94	37.288	51.588	28.097	0.00	0.00
ATOM	1443	CB	TYR	X	94	38.633	50.502	26.807	0.00	0.00
ATOM	1444	HB2	TYR	X	94	39.373	49.704	26.875	0.00	0.00
ATOM	1445	HB3	TYR	X	94	37.875	50.094	26.139	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.337	51.587	25.986	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.537	52.432	25.179	0.00	0.00
ATOM	1448	HD1	TYR	X	94	37.488	52.189	25.100	0.00	0.00
ATOM	1449	CE1	TYR	X	94	39.102	53.578	24.612	0.00	0.00
ATOM	1450	HE1	TYR	X	94	38.446	54.241	24.068	0.00	0.00
ATOM	1451	CZ	TYR	X	94	40.492	53.908	24.834	0.00	0.00
ATOM	1452	OH	TYR	X	94	40.905	55.143	24.483	0.00	0.00
ATOM	1453	HH	TYR	X	94	41.820	55.363	24.673	0.00	0.00
ATOM	1454	CE2	TYR	X	94	41.320	52.992	25.512	0.00	0.00
ATOM	1455	HE2	TYR	X	94	42.299	53.255	25.883	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.710	51.909	26.195	0.00	0.00
ATOM	1457	HD2	TYR	X	94	41.300	51.307	26.870	0.00	0.00
ATOM	1458	C	TYR	X	94	37.472	49.719	28.989	0.00	0.00
ATOM	1459	O	TYR	X	94	38.099	49.119	29.867	0.00	0.00
ATOM	1460	N	LEU	X	95	36.209	49.376	28.711	0.00	0.00
ATOM	1461	H	LEU	X	95	35.720	49.746	27.908	0.00	0.00
ATOM	1462	CA	LEU	X	95	35.451	48.261	29.284	0.00	0.00
ATOM	1463	HA	LEU	X	95	36.114	47.606	29.849	0.00	0.00
ATOM	1464	CB	LEU	X	95	34.475	48.752	30.397	0.00	0.00
ATOM	1465	HB2	LEU	X	95	33.978	47.926	30.906	0.00	0.00
ATOM	1466	HB3	LEU	X	95	35.128	49.382	31.001	0.00	0.00
ATOM	1467	CG	LEU	X	95	33.332	49.685	30.002	0.00	0.00
ATOM	1468	HG	LEU	X	95	33.771	50.476	29.395	0.00	0.00
ATOM	1469	CD1	LEU	X	95	32.154	49.034	29.283	0.00	0.00
ATOM	1470	HD11	LEU	X	95	31.837	48.181	29.884	0.00	0.00
ATOM	1471	HD12	LEU	X	95	32.449	48.738	28.276	0.00	0.00

ATOM	1472	HD13	LEU	X	95	31.386	49.804	29.200	0.00	0.00
ATOM	1473	CD2	LEU	X	95	32.732	50.337	31.245	0.00	0.00
ATOM	1474	HD21	LEU	X	95	32.276	49.665	31.973	0.00	0.00
ATOM	1475	HD22	LEU	X	95	33.493	50.828	31.852	0.00	0.00
ATOM	1476	HD23	LEU	X	95	32.019	51.117	30.979	0.00	0.00
ATOM	1477	C	LEU	X	95	34.757	47.486	28.129	0.00	0.00
ATOM	1478	O	LEU	X	95	34.772	47.881	26.947	0.00	0.00
ATOM	1479	N	ASN	X	96	34.138	46.367	28.407	0.00	0.00
ATOM	1480	H	ASN	X	96	34.225	46.126	29.384	0.00	0.00
ATOM	1481	CA	ASN	X	96	33.557	45.369	27.546	0.00	0.00
ATOM	1482	HA	ASN	X	96	33.451	45.721	26.521	0.00	0.00
ATOM	1483	CB	ASN	X	96	34.541	44.121	27.569	0.00	0.00
ATOM	1484	HB2	ASN	X	96	34.353	43.609	28.513	0.00	0.00
ATOM	1485	HB3	ASN	X	96	34.202	43.467	26.766	0.00	0.00
ATOM	1486	CG	ASN	X	96	36.028	44.497	27.381	0.00	0.00
ATOM	1487	OD1	ASN	X	96	36.424	45.023	26.346	0.00	0.00
ATOM	1488	ND2	ASN	X	96	36.786	44.239	28.411	0.00	0.00
ATOM	1489	HD21	ASN	X	96	37.763	44.492	28.447	0.00	0.00
ATOM	1490	HD22	ASN	X	96	36.329	43.872	29.234	0.00	0.00
ATOM	1491	C	ASN	X	96	32.210	44.883	28.084	0.00	0.00
ATOM	1492	O	ASN	X	96	32.008	44.761	29.309	0.00	0.00
ATOM	1493	N	VAL	X	97	31.211	44.548	27.270	0.00	0.00
ATOM	1494	H	VAL	X	97	31.417	44.577	26.282	0.00	0.00
ATOM	1495	CA	VAL	X	97	29.853	44.067	27.588	0.00	0.00
ATOM	1496	HA	VAL	X	97	29.844	43.710	28.618	0.00	0.00
ATOM	1497	CB	VAL	X	97	28.796	45.192	27.449	0.00	0.00
ATOM	1498	HB	VAL	X	97	28.913	45.588	26.440	0.00	0.00
ATOM	1499	CG1	VAL	X	97	27.406	44.647	27.848	0.00	0.00
ATOM	1500	HG11	VAL	X	97	27.116	43.917	27.093	0.00	0.00
ATOM	1501	HG12	VAL	X	97	27.342	44.353	28.896	0.00	0.00
ATOM	1502	HG13	VAL	X	97	26.692	45.464	27.742	0.00	0.00
ATOM	1503	CG2	VAL	X	97	29.192	46.469	28.291	0.00	0.00
ATOM	1504	HG21	VAL	X	97	30.203	46.801	28.055	0.00	0.00
ATOM	1505	HG22	VAL	X	97	29.155	46.293	29.366	0.00	0.00
ATOM	1506	HG23	VAL	X	97	28.470	47.269	28.126	0.00	0.00
ATOM	1507	C	VAL	X	97	29.452	42.905	26.629	0.00	0.00
ATOM	1508	O	VAL	X	97	29.539	42.951	25.396	0.00	0.00
ATOM	1509	N	TRP	X	98	28.886	41.885	27.206	0.00	0.00
ATOM	1510	H	TRP	X	98	28.940	41.846	28.214	0.00	0.00
ATOM	1511	CA	TRP	X	98	28.324	40.692	26.544	0.00	0.00
ATOM	1512	HA	TRP	X	98	28.349	40.703	25.455	0.00	0.00
ATOM	1513	CB	TRP	X	98	29.060	39.371	27.008	0.00	0.00
ATOM	1514	HB2	TRP	X	98	29.046	39.283	28.095	0.00	0.00
ATOM	1515	HB3	TRP	X	98	28.450	38.510	26.735	0.00	0.00
ATOM	1516	CG	TRP	X	98	30.514	39.128	26.641	0.00	0.00
ATOM	1517	CD1	TRP	X	98	30.933	38.161	25.777	0.00	0.00
ATOM	1518	HD1	TRP	X	98	30.311	37.421	25.295	0.00	0.00
ATOM	1519	NE1	TRP	X	98	32.309	38.154	25.800	0.00	0.00
ATOM	1520	HE1	TRP	X	98	32.807	37.331	25.492	0.00	0.00
ATOM	1521	CE2	TRP	X	98	32.830	39.110	26.674	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	34.169	39.425	26.954	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	35.039	38.852	26.670	0.00	0.00
ATOM	1524	CH2	TRP	X	98	34.429	40.444	27.953	0.00	0.00
ATOM	1525	HH2	TRP	X	98	35.413	40.647	28.349	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	33.315	41.098	28.527	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	33.470	41.712	29.401	0.00	0.00
ATOM	1528	CE3	TRP	X	98	31.998	40.852	28.138	0.00	0.00
ATOM	1529	HE3	TRP	X	98	31.214	41.267	28.754	0.00	0.00
ATOM	1530	CD2	TRP	X	98	31.733	39.782	27.253	0.00	0.00
ATOM	1531	C	TRP	X	98	26.893	40.536	26.978	0.00	0.00
ATOM	1532	O	TRP	X	98	26.534	40.639	28.179	0.00	0.00
ATOM	1533	N	THR	X	99	25.992	40.443	25.996	0.00	0.00
ATOM	1534	H	THR	X	99	26.408	40.484	25.077	0.00	0.00
ATOM	1535	CA	THR	X	99	24.554	40.303	26.189	0.00	0.00
ATOM	1536	HA	THR	X	99	24.464	39.934	27.210	0.00	0.00
ATOM	1537	CB	THR	X	99	23.772	41.608	26.020	0.00	0.00
ATOM	1538	HB	THR	X	99	24.248	42.341	26.671	0.00	0.00

ATOM	1539	CG2	THR	X	99	23.817	42.232	24.635	0.00	0.00
ATOM	1540	HG21	THR	X	99	24.801	42.511	24.259	0.00	0.00
ATOM	1541	HG22	THR	X	99	23.152	43.096	24.653	0.00	0.00
ATOM	1542	HG23	THR	X	99	23.387	41.511	23.940	0.00	0.00
ATOM	1543	OG1	THR	X	99	22.471	41.366	26.489	0.00	0.00
ATOM	1544	HG1	THR	X	99	22.045	42.202	26.689	0.00	0.00
ATOM	1545	C	THR	X	99	24.047	39.174	25.309	0.00	0.00
ATOM	1546	O	THR	X	99	24.543	39.107	24.210	0.00	0.00
ATOM	1547	N	PRO	X	100	23.116	38.299	25.683	0.00	0.00
ATOM	1548	CD	PRO	X	100	22.409	38.359	26.940	0.00	0.00
ATOM	1549	HD2	PRO	X	100	21.537	38.975	26.719	0.00	0.00
ATOM	1550	HD3	PRO	X	100	23.009	38.707	27.780	0.00	0.00
ATOM	1551	CG	PRO	X	100	21.858	36.960	27.156	0.00	0.00
ATOM	1552	HG2	PRO	X	100	21.010	37.102	27.826	0.00	0.00
ATOM	1553	HG3	PRO	X	100	22.598	36.272	27.565	0.00	0.00
ATOM	1554	CB	PRO	X	100	21.457	36.559	25.772	0.00	0.00
ATOM	1555	HB2	PRO	X	100	20.442	36.871	25.526	0.00	0.00
ATOM	1556	HB3	PRO	X	100	21.486	35.490	25.560	0.00	0.00
ATOM	1557	CA	PRO	X	100	22.547	37.209	24.842	0.00	0.00
ATOM	1558	HA	PRO	X	100	23.333	36.462	24.735	0.00	0.00
ATOM	1559	C	PRO	X	100	21.930	37.550	23.551	0.00	0.00
ATOM	1560	O	PRO	X	100	21.280	38.603	23.428	0.00	0.00
ATOM	1561	N	TYR	X	101	21.947	36.694	22.580	0.00	0.00
ATOM	1562	H	TYR	X	101	22.693	36.015	22.641	0.00	0.00
ATOM	1563	CA	TYR	X	101	21.362	36.932	21.246	0.00	0.00
ATOM	1564	HA	TYR	X	101	21.152	38.002	21.272	0.00	0.00
ATOM	1565	CB	TYR	X	101	22.347	36.720	20.092	0.00	0.00
ATOM	1566	HB2	TYR	X	101	23.340	37.140	20.251	0.00	0.00
ATOM	1567	HB3	TYR	X	101	22.607	35.662	20.077	0.00	0.00
ATOM	1568	CG	TYR	X	101	21.956	37.213	18.701	0.00	0.00
ATOM	1569	CD1	TYR	X	101	20.847	36.755	17.995	0.00	0.00
ATOM	1570	HD1	TYR	X	101	20.276	35.955	18.442	0.00	0.00
ATOM	1571	CE1	TYR	X	101	20.489	37.324	16.799	0.00	0.00
ATOM	1572	HE1	TYR	X	101	19.641	36.910	16.273	0.00	0.00
ATOM	1573	CZ	TYR	X	101	21.319	38.284	16.174	0.00	0.00
ATOM	1574	OH	TYR	X	101	21.028	38.839	14.990	0.00	0.00
ATOM	1575	HH	TYR	X	101	20.183	38.476	14.713	0.00	0.00
ATOM	1576	CE2	TYR	X	101	22.472	38.704	16.799	0.00	0.00
ATOM	1577	HE2	TYR	X	101	23.107	39.412	16.288	0.00	0.00
ATOM	1578	CD2	TYR	X	101	22.773	38.209	18.051	0.00	0.00
ATOM	1579	HD2	TYR	X	101	23.639	38.488	18.633	0.00	0.00
ATOM	1580	C	TYR	X	101	20.163	36.031	21.049	0.00	0.00
ATOM	1581	O	TYR	X	101	20.266	34.783	20.952	0.00	0.00
ATOM	1582	N	PRO	X	102	18.956	36.568	20.905	0.00	0.00
ATOM	1583	CD	PRO	X	102	17.788	35.745	20.575	0.00	0.00
ATOM	1584	HD2	PRO	X	102	17.742	34.996	21.365	0.00	0.00
ATOM	1585	HD3	PRO	X	102	17.890	35.315	19.579	0.00	0.00
ATOM	1586	CG	PRO	X	102	16.604	36.710	20.691	0.00	0.00
ATOM	1587	HG2	PRO	X	102	16.288	36.648	21.732	0.00	0.00
ATOM	1588	HG3	PRO	X	102	15.844	36.448	19.955	0.00	0.00
ATOM	1589	CB	PRO	X	102	17.232	38.021	20.236	0.00	0.00
ATOM	1590	HB2	PRO	X	102	16.635	38.878	20.548	0.00	0.00
ATOM	1591	HB3	PRO	X	102	17.349	38.059	19.153	0.00	0.00
ATOM	1592	CA	PRO	X	102	18.588	37.963	20.940	0.00	0.00
ATOM	1593	HA	PRO	X	102	19.279	38.567	20.352	0.00	0.00
ATOM	1594	C	PRO	X	102	18.490	38.643	22.316	0.00	0.00
ATOM	1595	O	PRO	X	102	18.331	38.014	23.365	0.00	0.00
ATOM	1596	N	ARG	X	103	18.621	40.014	22.327	0.00	0.00
ATOM	1597	H	ARG	X	103	18.783	40.414	21.414	0.00	0.00
ATOM	1598	CA	ARG	X	103	18.787	40.861	23.540	0.00	0.00
ATOM	1599	HA	ARG	X	103	19.764	40.722	24.002	0.00	0.00
ATOM	1600	CB	ARG	X	103	18.997	42.279	22.887	0.00	0.00
ATOM	1601	HB2	ARG	X	103	19.989	42.262	22.435	0.00	0.00
ATOM	1602	HB3	ARG	X	103	18.201	42.491	22.173	0.00	0.00
ATOM	1603	CG	ARG	X	103	19.065	43.409	23.871	0.00	0.00
ATOM	1604	HG2	ARG	X	103	18.109	43.910	24.022	0.00	0.00
ATOM	1605	HG3	ARG	X	103	19.283	42.915	24.818	0.00	0.00

ATOM	1606	CD	ARG	X	103	20.173	44.419	23.573	0.00	0.00
ATOM	1607	HD2	ARG	X	103	20.239	45.149	24.379	0.00	0.00
ATOM	1608	HD3	ARG	X	103	21.178	44.004	23.495	0.00	0.00
ATOM	1609	NE	ARG	X	103	19.876	45.172	22.366	0.00	0.00
ATOM	1610	HE	ARG	X	103	19.175	45.893	22.455	0.00	0.00
ATOM	1611	CZ	ARG	X	103	20.704	45.416	21.384	0.00	0.00
ATOM	1612	NH1	ARG	X	103	21.866	44.805	21.153	0.00	0.00
ATOM	1613	HH11	ARG	X	103	22.136	44.027	21.737	0.00	0.00
ATOM	1614	HH12	ARG	X	103	22.368	45.137	20.342	0.00	0.00
ATOM	1615	NH2	ARG	X	103	20.369	46.323	20.511	0.00	0.00
ATOM	1616	HH21	ARG	X	103	19.618	46.975	20.688	0.00	0.00
ATOM	1617	HH22	ARG	X	103	21.017	46.614	19.792	0.00	0.00
ATOM	1618	C	ARG	X	103	17.534	40.754	24.448	0.00	0.00
ATOM	1619	O	ARG	X	103	16.440	40.843	23.942	0.00	0.00
ATOM	1620	N	PRO	X	104	17.690	40.594	25.749	0.00	0.00
ATOM	1621	CD	PRO	X	104	19.038	40.476	26.394	0.00	0.00
ATOM	1622	HD2	PRO	X	104	19.450	41.485	26.409	0.00	0.00
ATOM	1623	HD3	PRO	X	104	19.694	39.785	25.864	0.00	0.00
ATOM	1624	CG	PRO	X	104	18.714	39.977	27.752	0.00	0.00
ATOM	1625	HG2	PRO	X	104	19.406	40.261	28.545	0.00	0.00
ATOM	1626	HG3	PRO	X	104	18.670	38.890	27.686	0.00	0.00
ATOM	1627	CB	PRO	X	104	17.409	40.667	28.070	0.00	0.00
ATOM	1628	HB2	PRO	X	104	17.542	41.711	28.354	0.00	0.00
ATOM	1629	HB3	PRO	X	104	16.835	40.101	28.804	0.00	0.00
ATOM	1630	CA	PRO	X	104	16.650	40.650	26.719	0.00	0.00
ATOM	1631	HA	PRO	X	104	16.166	39.675	26.664	0.00	0.00
ATOM	1632	C	PRO	X	104	15.565	41.699	26.494	0.00	0.00
ATOM	1633	O	PRO	X	104	15.873	42.849	26.562	0.00	0.00
ATOM	1634	N	THR	X	105	14.292	41.201	26.349	0.00	0.00
ATOM	1635	H	THR	X	105	14.149	40.201	26.372	0.00	0.00
ATOM	1636	CA	THR	X	105	13.034	41.944	26.344	0.00	0.00
ATOM	1637	HA	THR	X	105	13.176	42.824	25.717	0.00	0.00
ATOM	1638	CB	THR	X	105	11.857	41.057	25.777	0.00	0.00
ATOM	1639	HB	THR	X	105	10.893	41.548	25.905	0.00	0.00
ATOM	1640	CG2	THR	X	105	12.155	40.724	24.336	0.00	0.00
ATOM	1641	HG21	THR	X	105	11.384	40.032	23.998	0.00	0.00
ATOM	1642	HG22	THR	X	105	13.056	40.112	24.292	0.00	0.00
ATOM	1643	HG23	THR	X	105	12.266	41.609	23.709	0.00	0.00
ATOM	1644	OG1	THR	X	105	11.897	39.885	26.434	0.00	0.00
ATOM	1645	HG1	THR	X	105	11.191	39.977	27.078	0.00	0.00
ATOM	1646	C	THR	X	105	12.681	42.543	27.691	0.00	0.00
ATOM	1647	O	THR	X	105	12.083	43.595	27.794	0.00	0.00
ATOM	1648	N	SER	X	106	13.070	41.856	28.687	0.00	0.00
ATOM	1649	H	SER	X	106	13.589	41.000	28.553	0.00	0.00
ATOM	1650	CA	SER	X	106	12.950	42.305	30.112	0.00	0.00
ATOM	1651	HA	SER	X	106	12.556	43.319	30.166	0.00	0.00
ATOM	1652	CB	SER	X	106	12.098	41.346	30.972	0.00	0.00
ATOM	1653	HB2	SER	X	106	12.546	40.369	31.153	0.00	0.00
ATOM	1654	HB3	SER	X	106	12.073	41.806	31.960	0.00	0.00
ATOM	1655	OG	SER	X	106	10.811	41.195	30.447	0.00	0.00
ATOM	1656	HG	SER	X	106	10.370	42.028	30.630	0.00	0.00
ATOM	1657	C	SER	X	106	14.381	42.363	30.632	0.00	0.00
ATOM	1658	O	SER	X	106	15.178	41.477	30.252	0.00	0.00
ATOM	1659	N	PRO	X	107	14.659	43.290	31.579	0.00	0.00
ATOM	1660	CD	PRO	X	107	13.831	44.419	32.070	0.00	0.00
ATOM	1661	HD2	PRO	X	107	13.198	44.110	32.902	0.00	0.00
ATOM	1662	HD3	PRO	X	107	13.194	44.852	31.298	0.00	0.00
ATOM	1663	CG	PRO	X	107	14.765	45.456	32.616	0.00	0.00
ATOM	1664	HG2	PRO	X	107	14.271	46.011	33.414	0.00	0.00
ATOM	1665	HG3	PRO	X	107	15.019	46.223	31.884	0.00	0.00
ATOM	1666	CB	PRO	X	107	15.907	44.622	33.128	0.00	0.00
ATOM	1667	HB2	PRO	X	107	15.801	44.380	34.186	0.00	0.00
ATOM	1668	HB3	PRO	X	107	16.824	45.209	33.080	0.00	0.00
ATOM	1669	CA	PRO	X	107	16.043	43.423	32.107	0.00	0.00
ATOM	1670	HA	PRO	X	107	16.673	43.643	31.245	0.00	0.00
ATOM	1671	C	PRO	X	107	16.579	42.159	32.838	0.00	0.00
ATOM	1672	O	PRO	X	107	15.933	41.706	33.764	0.00	0.00

ATOM	1673	N	THR	X	108	17.733	41.664	32.411	0.00	0.00
ATOM	1674	H	THR	X	108	18.210	42.035	31.602	0.00	0.00
ATOM	1675	CA	THR	X	108	18.289	40.432	32.989	0.00	0.00
ATOM	1676	HA	THR	X	108	17.511	39.873	33.510	0.00	0.00
ATOM	1677	CB	THR	X	108	18.799	39.539	31.879	0.00	0.00
ATOM	1678	HB	THR	X	108	18.072	39.448	31.072	0.00	0.00
ATOM	1679	CG2	THR	X	108	20.108	39.990	31.197	0.00	0.00
ATOM	1680	HG21	THR	X	108	19.889	40.983	30.804	0.00	0.00
ATOM	1681	HG22	THR	X	108	20.398	39.254	30.446	0.00	0.00
ATOM	1682	HG23	THR	X	108	20.892	40.010	31.954	0.00	0.00
ATOM	1683	OG1	THR	X	108	19.055	38.332	32.413	0.00	0.00
ATOM	1684	HG1	THR	X	108	19.336	37.731	31.719	0.00	0.00
ATOM	1685	C	THR	X	108	19.376	40.856	34.010	0.00	0.00
ATOM	1686	O	THR	X	108	20.039	41.873	33.766	0.00	0.00
ATOM	1687	N	PRO	X	109	19.582	40.119	35.103	0.00	0.00
ATOM	1688	CD	PRO	X	109	18.810	38.979	35.537	0.00	0.00
ATOM	1689	HD2	PRO	X	109	18.731	38.200	34.778	0.00	0.00
ATOM	1690	HD3	PRO	X	109	17.878	39.365	35.948	0.00	0.00
ATOM	1691	CG	PRO	X	109	19.643	38.350	36.741	0.00	0.00
ATOM	1692	HG2	PRO	X	109	20.361	37.579	36.459	0.00	0.00
ATOM	1693	HG3	PRO	X	109	18.984	37.986	37.530	0.00	0.00
ATOM	1694	CB	PRO	X	109	20.348	39.520	37.313	0.00	0.00
ATOM	1695	HB2	PRO	X	109	21.267	39.211	37.810	0.00	0.00
ATOM	1696	HB3	PRO	X	109	19.695	40.042	38.013	0.00	0.00
ATOM	1697	CA	PRO	X	109	20.554	40.486	36.145	0.00	0.00
ATOM	1698	HA	PRO	X	109	20.229	41.461	36.508	0.00	0.00
ATOM	1699	C	PRO	X	109	22.031	40.506	35.629	0.00	0.00
ATOM	1700	O	PRO	X	109	22.365	39.879	34.615	0.00	0.00
ATOM	1701	N	VAL	X	110	22.839	41.441	36.122	0.00	0.00
ATOM	1702	H	VAL	X	110	22.487	41.801	36.997	0.00	0.00
ATOM	1703	CA	VAL	X	110	24.158	41.850	35.665	0.00	0.00
ATOM	1704	HA	VAL	X	110	24.317	41.450	34.664	0.00	0.00
ATOM	1705	CB	VAL	X	110	24.241	43.390	35.581	0.00	0.00
ATOM	1706	HB	VAL	X	110	24.096	43.849	36.559	0.00	0.00
ATOM	1707	CG1	VAL	X	110	25.572	43.945	34.990	0.00	0.00
ATOM	1708	HG11	VAL	X	110	25.796	43.451	34.045	0.00	0.00
ATOM	1709	HG12	VAL	X	110	25.586	45.034	35.008	0.00	0.00
ATOM	1710	HG13	VAL	X	110	26.292	43.628	35.745	0.00	0.00
ATOM	1711	CG2	VAL	X	110	23.081	43.902	34.640	0.00	0.00
ATOM	1712	HG21	VAL	X	110	23.334	43.573	33.632	0.00	0.00
ATOM	1713	HG22	VAL	X	110	23.042	44.989	34.575	0.00	0.00
ATOM	1714	HG23	VAL	X	110	22.180	43.495	35.100	0.00	0.00
ATOM	1715	C	VAL	X	110	25.258	41.317	36.576	0.00	0.00
ATOM	1716	O	VAL	X	110	25.247	41.454	37.751	0.00	0.00
ATOM	1717	N	LEU	X	111	26.299	40.760	35.974	0.00	0.00
ATOM	1718	H	LEU	X	111	26.293	40.747	34.964	0.00	0.00
ATOM	1719	CA	LEU	X	111	27.588	40.467	36.636	0.00	0.00
ATOM	1720	HA	LEU	X	111	27.410	40.719	37.682	0.00	0.00
ATOM	1721	CB	LEU	X	111	27.897	38.971	36.367	0.00	0.00
ATOM	1722	HB2	LEU	X	111	27.538	38.695	35.375	0.00	0.00
ATOM	1723	HB3	LEU	X	111	28.978	38.853	36.282	0.00	0.00
ATOM	1724	CG	LEU	X	111	27.260	37.951	37.300	0.00	0.00
ATOM	1725	HG	LEU	X	111	26.237	38.247	37.533	0.00	0.00
ATOM	1726	CD1	LEU	X	111	27.216	36.599	36.696	0.00	0.00
ATOM	1727	HD11	LEU	X	111	26.680	36.749	35.759	0.00	0.00
ATOM	1728	HD12	LEU	X	111	26.668	35.888	37.314	0.00	0.00
ATOM	1729	HD13	LEU	X	111	28.266	36.365	36.521	0.00	0.00
ATOM	1730	CD2	LEU	X	111	28.004	37.974	38.636	0.00	0.00
ATOM	1731	HD21	LEU	X	111	27.370	37.510	39.392	0.00	0.00
ATOM	1732	HD22	LEU	X	111	29.003	37.540	38.623	0.00	0.00
ATOM	1733	HD23	LEU	X	111	28.171	38.977	39.029	0.00	0.00
ATOM	1734	C	LEU	X	111	28.714	41.376	36.047	0.00	0.00
ATOM	1735	O	LEU	X	111	28.810	41.505	34.837	0.00	0.00
ATOM	1736	N	VAL	X	112	29.573	41.924	36.918	0.00	0.00
ATOM	1737	H	VAL	X	112	29.311	41.734	37.874	0.00	0.00
ATOM	1738	CA	VAL	X	112	30.681	42.769	36.629	0.00	0.00
ATOM	1739	HA	VAL	X	112	30.658	42.926	35.551	0.00	0.00

ATOM	1740	CB	VAL	X	112	30.460	44.205	37.171	0.00	0.00
ATOM	1741	HB	VAL	X	112	30.663	44.187	38.242	0.00	0.00
ATOM	1742	CG1	VAL	X	112	31.542	45.176	36.665	0.00	0.00
ATOM	1743	HG11	VAL	X	112	31.628	45.149	35.579	0.00	0.00
ATOM	1744	HG12	VAL	X	112	31.305	46.193	36.977	0.00	0.00
ATOM	1745	HG13	VAL	X	112	32.491	44.878	37.112	0.00	0.00
ATOM	1746	CG2	VAL	X	112	29.110	44.851	36.828	0.00	0.00
ATOM	1747	HG21	VAL	X	112	28.984	45.792	37.362	0.00	0.00
ATOM	1748	HG22	VAL	X	112	28.348	44.170	37.206	0.00	0.00
ATOM	1749	HG23	VAL	X	112	29.003	45.061	35.763	0.00	0.00
ATOM	1750	C	VAL	X	112	31.920	42.112	37.184	0.00	0.00
ATOM	1751	O	VAL	X	112	31.969	41.960	38.407	0.00	0.00
ATOM	1752	N	TRP	X	113	32.880	41.815	36.272	0.00	0.00
ATOM	1753	H	TRP	X	113	32.736	42.033	35.296	0.00	0.00
ATOM	1754	CA	TRP	X	113	34.123	41.225	36.669	0.00	0.00
ATOM	1755	HA	TRP	X	113	33.939	40.631	37.564	0.00	0.00
ATOM	1756	CB	TRP	X	113	34.692	40.328	35.493	0.00	0.00
ATOM	1757	HB2	TRP	X	113	33.962	39.556	35.252	0.00	0.00
ATOM	1758	HB3	TRP	X	113	34.785	41.031	34.666	0.00	0.00
ATOM	1759	CG	TRP	X	113	35.972	39.649	35.809	0.00	0.00
ATOM	1760	CD1	TRP	X	113	37.109	39.736	35.073	0.00	0.00
ATOM	1761	HD1	TRP	X	113	37.256	40.370	34.211	0.00	0.00
ATOM	1762	NE1	TRP	X	113	38.057	38.955	35.632	0.00	0.00
ATOM	1763	HE1	TRP	X	113	38.975	38.861	35.223	0.00	0.00
ATOM	1764	CE2	TRP	X	113	37.631	38.147	36.605	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	38.131	37.071	37.340	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	39.156	36.760	37.202	0.00	0.00
ATOM	1767	CH2	TRP	X	113	37.333	36.396	38.277	0.00	0.00
ATOM	1768	HH2	TRP	X	113	37.749	35.589	38.862	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	35.971	36.773	38.453	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	35.390	36.349	39.259	0.00	0.00
ATOM	1771	CE3	TRP	X	113	35.470	37.848	37.728	0.00	0.00
ATOM	1772	HE3	TRP	X	113	34.434	38.101	37.898	0.00	0.00
ATOM	1773	CD2	TRP	X	113	36.268	38.568	36.732	0.00	0.00
ATOM	1774	C	TRP	X	113	35.167	42.242	37.037	0.00	0.00
ATOM	1775	O	TRP	X	113	35.363	43.143	36.293	0.00	0.00
ATOM	1776	N	ILE	X	114	35.968	41.972	38.057	0.00	0.00
ATOM	1777	H	ILE	X	114	35.597	41.265	38.676	0.00	0.00
ATOM	1778	CA	ILE	X	114	37.250	42.630	38.410	0.00	0.00
ATOM	1779	HA	ILE	X	114	37.579	43.347	37.658	0.00	0.00
ATOM	1780	CB	ILE	X	114	37.154	43.460	39.733	0.00	0.00
ATOM	1781	HB	ILE	X	114	37.117	42.749	40.559	0.00	0.00
ATOM	1782	CG2	ILE	X	114	38.312	44.418	39.822	0.00	0.00
ATOM	1783	HG21	ILE	X	114	38.256	45.247	39.118	0.00	0.00
ATOM	1784	HG22	ILE	X	114	39.166	43.759	39.665	0.00	0.00
ATOM	1785	HG23	ILE	X	114	38.303	44.795	40.845	0.00	0.00
ATOM	1786	CG1	ILE	X	114	35.856	44.410	39.655	0.00	0.00
ATOM	1787	HG12	ILE	X	114	35.948	44.996	38.741	0.00	0.00
ATOM	1788	HG13	ILE	X	114	34.902	43.907	39.493	0.00	0.00
ATOM	1789	CD1	ILE	X	114	35.662	45.351	40.906	0.00	0.00
ATOM	1790	HD11	ILE	X	114	35.814	44.791	41.828	0.00	0.00
ATOM	1791	HD12	ILE	X	114	34.692	45.844	40.971	0.00	0.00
ATOM	1792	HD13	ILE	X	114	36.466	46.085	40.838	0.00	0.00
ATOM	1793	C	ILE	X	114	38.348	41.551	38.526	0.00	0.00
ATOM	1794	O	ILE	X	114	38.069	40.468	39.009	0.00	0.00
ATOM	1795	N	TYR	X	115	39.524	41.726	37.906	0.00	0.00
ATOM	1796	H	TYR	X	115	39.824	42.593	37.484	0.00	0.00
ATOM	1797	CA	TYR	X	115	40.500	40.698	37.710	0.00	0.00
ATOM	1798	HA	TYR	X	115	40.022	39.723	37.807	0.00	0.00
ATOM	1799	CB	TYR	X	115	41.082	40.817	36.309	0.00	0.00
ATOM	1800	HB2	TYR	X	115	41.889	40.084	36.284	0.00	0.00
ATOM	1801	HB3	TYR	X	115	40.436	40.426	35.524	0.00	0.00
ATOM	1802	CG	TYR	X	115	41.593	42.133	35.948	0.00	0.00
ATOM	1803	CD1	TYR	X	115	42.796	42.605	36.515	0.00	0.00
ATOM	1804	HD1	TYR	X	115	43.295	41.996	37.254	0.00	0.00
ATOM	1805	CE1	TYR	X	115	43.325	43.860	36.167	0.00	0.00
ATOM	1806	HE1	TYR	X	115	44.329	44.072	36.504	0.00	0.00

ATOM	1807	CZ	TYR	X	115	42.543	44.706	35.321	0.00	0.00
ATOM	1808	OH	TYR	X	115	43.000	45.923	34.889	0.00	0.00
ATOM	1809	HH	TYR	X	115	42.427	46.446	34.323	0.00	0.00
ATOM	1810	CE2	TYR	X	115	41.288	44.252	34.802	0.00	0.00
ATOM	1811	HE2	TYR	X	115	40.774	44.930	34.137	0.00	0.00
ATOM	1812	CD2	TYR	X	115	40.841	42.995	35.170	0.00	0.00
ATOM	1813	HD2	TYR	X	115	39.893	42.638	34.796	0.00	0.00
ATOM	1814	C	TYR	X	115	41.602	40.636	38.801	0.00	0.00
ATOM	1815	O	TYR	X	115	41.916	41.644	39.422	0.00	0.00
ATOM	1816	N	GLY	X	116	42.228	39.437	39.040	0.00	0.00
ATOM	1817	H	GLY	X	116	41.878	38.540	38.734	0.00	0.00
ATOM	1818	CA	GLY	X	116	43.483	39.367	39.848	0.00	0.00
ATOM	1819	HA2	GLY	X	116	43.499	39.946	40.771	0.00	0.00
ATOM	1820	HA3	GLY	X	116	43.685	38.333	40.124	0.00	0.00
ATOM	1821	C	GLY	X	116	44.733	39.763	39.045	0.00	0.00
ATOM	1822	O	GLY	X	116	44.697	39.984	37.776	0.00	0.00
ATOM	1823	N	GLY	X	117	45.899	39.766	39.779	0.00	0.00
ATOM	1824	H	GLY	X	117	45.825	39.440	40.732	0.00	0.00
ATOM	1825	CA	GLY	X	117	47.154	40.387	39.284	0.00	0.00
ATOM	1826	HA2	GLY	X	117	47.810	39.599	38.912	0.00	0.00
ATOM	1827	HA3	GLY	X	117	47.004	41.041	38.425	0.00	0.00
ATOM	1828	C	GLY	X	117	48.019	41.152	40.272	0.00	0.00
ATOM	1829	O	GLY	X	117	48.905	41.955	39.903	0.00	0.00
ATOM	1830	N	GLY	X	118	47.662	41.066	41.548	0.00	0.00
ATOM	1831	H	GLY	X	118	46.953	40.379	41.760	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.285	41.676	42.688	0.00	0.00
ATOM	1833	HA2	GLY	X	118	47.816	41.203	43.550	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.349	41.447	42.630	0.00	0.00
ATOM	1835	C	GLY	X	118	48.193	43.189	42.880	0.00	0.00
ATOM	1836	O	GLY	X	118	48.920	43.824	43.608	0.00	0.00
ATOM	1837	N	PHE	X	119	47.282	43.795	42.121	0.00	0.00
ATOM	1838	H	PHE	X	119	46.641	43.268	41.547	0.00	0.00
ATOM	1839	CA	PHE	X	119	47.189	45.249	41.877	0.00	0.00
ATOM	1840	HA	PHE	X	119	46.237	45.495	41.407	0.00	0.00
ATOM	1841	CB	PHE	X	119	47.099	46.099	43.164	0.00	0.00
ATOM	1842	HB2	PHE	X	119	47.969	46.049	43.819	0.00	0.00
ATOM	1843	HB3	PHE	X	119	46.994	47.152	42.904	0.00	0.00
ATOM	1844	CG	PHE	X	119	45.876	45.773	43.988	0.00	0.00
ATOM	1845	CD1	PHE	X	119	44.595	46.358	43.648	0.00	0.00
ATOM	1846	HD1	PHE	X	119	44.541	46.960	42.753	0.00	0.00
ATOM	1847	CE1	PHE	X	119	43.452	46.095	44.379	0.00	0.00
ATOM	1848	HE1	PHE	X	119	42.491	46.525	44.138	0.00	0.00
ATOM	1849	CZ	PHE	X	119	43.518	45.324	45.534	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.628	45.153	46.122	0.00	0.00
ATOM	1851	CE2	PHE	X	119	44.805	44.770	45.913	0.00	0.00
ATOM	1852	HE2	PHE	X	119	44.813	44.162	46.805	0.00	0.00
ATOM	1853	CD2	PHE	X	119	45.899	44.961	45.126	0.00	0.00
ATOM	1854	HD2	PHE	X	119	46.845	44.499	45.370	0.00	0.00
ATOM	1855	C	PHE	X	119	48.310	45.853	40.953	0.00	0.00
ATOM	1856	O	PHE	X	119	48.220	46.991	40.595	0.00	0.00
ATOM	1857	N	TYR	X	120	49.387	45.126	40.588	0.00	0.00
ATOM	1858	H	TYR	X	120	49.435	44.154	40.857	0.00	0.00
ATOM	1859	CA	TYR	X	120	50.552	45.660	39.904	0.00	0.00
ATOM	1860	HA	TYR	X	120	50.614	46.748	39.912	0.00	0.00
ATOM	1861	CB	TYR	X	120	51.843	45.178	40.397	0.00	0.00
ATOM	1862	HB2	TYR	X	120	52.679	45.743	39.987	0.00	0.00
ATOM	1863	HB3	TYR	X	120	51.838	45.495	41.440	0.00	0.00
ATOM	1864	CG	TYR	X	120	52.104	43.702	40.331	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.700	43.148	39.179	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.915	43.792	38.339	0.00	0.00
ATOM	1867	CE1	TYR	X	120	52.844	41.710	39.105	0.00	0.00
ATOM	1868	HE1	TYR	X	120	53.279	41.275	38.216	0.00	0.00
ATOM	1869	CZ	TYR	X	120	52.450	40.882	40.117	0.00	0.00
ATOM	1870	OH	TYR	X	120	52.536	39.521	39.959	0.00	0.00
ATOM	1871	HH	TYR	X	120	52.850	39.212	39.106	0.00	0.00
ATOM	1872	CE2	TYR	X	120	51.787	41.361	41.276	0.00	0.00
ATOM	1873	HE2	TYR	X	120	51.459	40.674	42.042	0.00	0.00

ATOM	1874	CD2	TYR	X	120	51.651	42.808	41.348	0.00	0.00
ATOM	1875	HD2	TYR	X	120	51.155	43.210	42.220	0.00	0.00
ATOM	1876	C	TYR	X	120	50.444	45.232	38.390	0.00	0.00
ATOM	1877	O	TYR	X	120	51.319	45.689	37.574	0.00	0.00
ATOM	1878	N	SER	X	121	49.411	44.417	38.011	0.00	0.00
ATOM	1879	H	SER	X	121	48.701	44.136	38.672	0.00	0.00
ATOM	1880	CA	SER	X	121	49.280	43.700	36.735	0.00	0.00
ATOM	1881	HA	SER	X	121	49.436	44.460	35.969	0.00	0.00
ATOM	1882	CB	SER	X	121	50.326	42.613	36.618	0.00	0.00
ATOM	1883	HB2	SER	X	121	50.181	42.365	35.566	0.00	0.00
ATOM	1884	HB3	SER	X	121	51.297	43.074	36.796	0.00	0.00
ATOM	1885	OG	SER	X	121	50.059	41.487	37.449	0.00	0.00
ATOM	1886	HG	SER	X	121	50.034	41.769	38.367	0.00	0.00
ATOM	1887	C	SER	X	121	47.885	43.112	36.498	0.00	0.00
ATOM	1888	O	SER	X	121	47.018	43.276	37.359	0.00	0.00
ATOM	1889	N	GLY	X	122	47.561	42.566	35.277	0.00	0.00
ATOM	1890	H	GLY	X	122	48.292	42.572	34.580	0.00	0.00
ATOM	1891	CA	GLY	X	122	46.179	42.059	34.962	0.00	0.00
ATOM	1892	HA2	GLY	X	122	46.322	41.053	34.566	0.00	0.00
ATOM	1893	HA3	GLY	X	122	45.503	42.118	35.815	0.00	0.00
ATOM	1894	C	GLY	X	122	45.590	42.887	33.847	0.00	0.00
ATOM	1895	O	GLY	X	122	46.088	43.978	33.465	0.00	0.00
ATOM	1896	N	ALA	X	123	44.430	42.436	33.281	0.00	0.00
ATOM	1897	H	ALA	X	123	44.005	41.644	33.742	0.00	0.00
ATOM	1898	CA	ALA	X	123	43.757	43.136	32.157	0.00	0.00
ATOM	1899	HA	ALA	X	123	43.746	44.212	32.327	0.00	0.00
ATOM	1900	CB	ALA	X	123	44.532	42.885	30.868	0.00	0.00
ATOM	1901	HB1	ALA	X	123	45.522	43.341	30.898	0.00	0.00
ATOM	1902	HB2	ALA	X	123	44.050	43.304	29.985	0.00	0.00
ATOM	1903	HB3	ALA	X	123	44.628	41.814	30.692	0.00	0.00
ATOM	1904	C	ALA	X	123	42.322	42.609	31.998	0.00	0.00
ATOM	1905	O	ALA	X	123	42.086	41.427	32.160	0.00	0.00
ATOM	1906	N	SER	X	124	41.362	43.451	31.549	0.00	0.00
ATOM	1907	H	SER	X	124	41.644	44.364	31.222	0.00	0.00
ATOM	1908	CA	SER	X	124	40.005	42.929	31.239	0.00	0.00
ATOM	1909	HA	SER	X	124	39.548	42.446	32.103	0.00	0.00
ATOM	1910	CB	SER	X	124	39.203	44.201	30.930	0.00	0.00
ATOM	1911	HB2	SER	X	124	38.172	43.855	30.850	0.00	0.00
ATOM	1912	HB3	SER	X	124	39.266	44.837	31.814	0.00	0.00
ATOM	1913	OG	SER	X	124	39.631	44.855	29.777	0.00	0.00
ATOM	1914	HG	SER	X	124	40.381	45.426	29.959	0.00	0.00
ATOM	1915	C	SER	X	124	39.905	41.913	30.059	0.00	0.00
ATOM	1916	O	SER	X	124	38.813	41.456	29.767	0.00	0.00
ATOM	1917	N	SER	X	125	40.978	41.667	29.322	0.00	0.00
ATOM	1918	H	SER	X	125	41.845	42.094	29.617	0.00	0.00
ATOM	1919	CA	SER	X	125	41.025	41.114	27.998	0.00	0.00
ATOM	1920	HA	SER	X	125	40.025	40.993	27.581	0.00	0.00
ATOM	1921	CB	SER	X	125	41.670	42.160	27.102	0.00	0.00
ATOM	1922	HB2	SER	X	125	41.642	41.763	26.088	0.00	0.00
ATOM	1923	HB3	SER	X	125	41.103	43.090	27.093	0.00	0.00
ATOM	1924	OG	SER	X	125	43.006	42.301	27.550	0.00	0.00
ATOM	1925	HG	SER	X	125	43.534	41.613	27.138	0.00	0.00
ATOM	1926	C	SER	X	125	41.776	39.774	27.810	0.00	0.00
ATOM	1927	O	SER	X	125	42.401	39.506	26.764	0.00	0.00
ATOM	1928	N	LEU	X	126	41.934	38.979	28.885	0.00	0.00
ATOM	1929	H	LEU	X	126	41.435	39.239	29.724	0.00	0.00
ATOM	1930	CA	LEU	X	126	42.539	37.675	28.879	0.00	0.00
ATOM	1931	HA	LEU	X	126	43.350	37.563	28.159	0.00	0.00
ATOM	1932	CB	LEU	X	126	43.081	37.288	30.330	0.00	0.00
ATOM	1933	HB2	LEU	X	126	42.282	37.137	31.055	0.00	0.00
ATOM	1934	HB3	LEU	X	126	43.640	36.354	30.276	0.00	0.00
ATOM	1935	CG	LEU	X	126	44.119	38.362	30.888	0.00	0.00
ATOM	1936	HG	LEU	X	126	43.568	39.291	31.033	0.00	0.00
ATOM	1937	CD1	LEU	X	126	44.725	37.851	32.197	0.00	0.00
ATOM	1938	HD11	LEU	X	126	45.426	37.026	32.069	0.00	0.00
ATOM	1939	HD12	LEU	X	126	43.889	37.520	32.813	0.00	0.00
ATOM	1940	HD13	LEU	X	126	45.310	38.599	32.732	0.00	0.00

ATOM	1941	CD2	LEU	X	126	45.302	38.600	29.882	0.00	0.00
ATOM	1942	HD21	LEU	X	126	44.952	39.115	28.987	0.00	0.00
ATOM	1943	HD22	LEU	X	126	46.025	39.325	30.256	0.00	0.00
ATOM	1944	HD23	LEU	X	126	45.716	37.629	29.610	0.00	0.00
ATOM	1945	C	LEU	X	126	41.497	36.591	28.515	0.00	0.00
ATOM	1946	O	LEU	X	126	40.326	36.679	28.794	0.00	0.00
ATOM	1947	N	ASP	X	127	42.022	35.531	27.915	0.00	0.00
ATOM	1948	H	ASP	X	127	42.993	35.629	27.656	0.00	0.00
ATOM	1949	CA	ASP	X	127	41.290	34.477	27.239	0.00	0.00
ATOM	1950	HA	ASP	X	127	40.619	34.920	26.502	0.00	0.00
ATOM	1951	CB	ASP	X	127	42.266	33.468	26.591	0.00	0.00
ATOM	1952	HB2	ASP	X	127	43.302	33.791	26.692	0.00	0.00
ATOM	1953	HB3	ASP	X	127	42.253	32.563	27.197	0.00	0.00
ATOM	1954	CG	ASP	X	127	41.985	33.245	25.109	0.00	0.00
ATOM	1955	OD1	ASP	X	127	42.098	34.192	24.317	0.00	0.00
ATOM	1956	OD2	ASP	X	127	41.757	32.065	24.777	0.00	0.00
ATOM	1957	C	ASP	X	127	40.365	33.691	28.161	0.00	0.00
ATOM	1958	O	ASP	X	127	39.415	33.076	27.767	0.00	0.00
ATOM	1959	N	VAL	X	128	40.592	33.823	29.496	0.00	0.00
ATOM	1960	H	VAL	X	128	41.374	34.421	29.720	0.00	0.00
ATOM	1961	CA	VAL	X	128	39.905	33.243	30.650	0.00	0.00
ATOM	1962	HA	VAL	X	128	39.441	32.319	30.307	0.00	0.00
ATOM	1963	CB	VAL	X	128	40.946	32.889	31.759	0.00	0.00
ATOM	1964	HB	VAL	X	128	41.782	32.372	31.289	0.00	0.00
ATOM	1965	CG1	VAL	X	128	41.655	34.106	32.416	0.00	0.00
ATOM	1966	HG11	VAL	X	128	42.025	34.795	31.657	0.00	0.00
ATOM	1967	HG12	VAL	X	128	40.845	34.474	33.046	0.00	0.00
ATOM	1968	HG13	VAL	X	128	42.496	33.753	33.013	0.00	0.00
ATOM	1969	CG2	VAL	X	128	40.299	31.941	32.842	0.00	0.00
ATOM	1970	HG21	VAL	X	128	39.476	32.333	33.441	0.00	0.00
ATOM	1971	HG22	VAL	X	128	41.065	31.719	33.584	0.00	0.00
ATOM	1972	HG23	VAL	X	128	39.949	31.043	32.334	0.00	0.00
ATOM	1973	C	VAL	X	128	38.773	34.150	31.143	0.00	0.00
ATOM	1974	O	VAL	X	128	37.835	33.693	31.820	0.00	0.00
ATOM	1975	N	TYR	X	129	38.631	35.386	30.631	0.00	0.00
ATOM	1976	H	TYR	X	129	39.322	35.591	29.923	0.00	0.00
ATOM	1977	CA	TYR	X	129	37.599	36.370	31.056	0.00	0.00
ATOM	1978	HA	TYR	X	129	37.109	35.907	31.912	0.00	0.00
ATOM	1979	CB	TYR	X	129	38.239	37.690	31.518	0.00	0.00
ATOM	1980	HB2	TYR	X	129	38.740	38.105	30.643	0.00	0.00
ATOM	1981	HB3	TYR	X	129	37.500	38.393	31.901	0.00	0.00
ATOM	1982	CG	TYR	X	129	39.302	37.707	32.580	0.00	0.00
ATOM	1983	CD1	TYR	X	129	39.218	36.687	33.638	0.00	0.00
ATOM	1984	HD1	TYR	X	129	38.438	35.941	33.695	0.00	0.00
ATOM	1985	CE1	TYR	X	129	40.269	36.614	34.551	0.00	0.00
ATOM	1986	HE1	TYR	X	129	40.247	35.884	35.346	0.00	0.00
ATOM	1987	CZ	TYR	X	129	41.273	37.577	34.558	0.00	0.00
ATOM	1988	OH	TYR	X	129	42.163	37.554	35.591	0.00	0.00
ATOM	1989	HH	TYR	X	129	42.952	38.096	35.516	0.00	0.00
ATOM	1990	CE2	TYR	X	129	41.302	38.586	33.554	0.00	0.00
ATOM	1991	HE2	TYR	X	129	42.138	39.269	33.520	0.00	0.00
ATOM	1992	CD2	TYR	X	129	40.335	38.616	32.493	0.00	0.00
ATOM	1993	HD2	TYR	X	129	40.317	39.430	31.784	0.00	0.00
ATOM	1994	C	TYR	X	129	36.557	36.627	29.999	0.00	0.00
ATOM	1995	O	TYR	X	129	35.777	37.627	30.042	0.00	0.00
ATOM	1996	N	ASP	X	130	36.473	35.810	28.917	0.00	0.00
ATOM	1997	H	ASP	X	130	37.108	35.025	28.907	0.00	0.00
ATOM	1998	CA	ASP	X	130	35.473	35.881	27.868	0.00	0.00
ATOM	1999	HA	ASP	X	130	35.278	36.909	27.563	0.00	0.00
ATOM	2000	CB	ASP	X	130	35.990	35.202	26.553	0.00	0.00
ATOM	2001	HB2	ASP	X	130	37.024	35.454	26.316	0.00	0.00
ATOM	2002	HB3	ASP	X	130	35.887	34.122	26.663	0.00	0.00
ATOM	2003	CG	ASP	X	130	35.126	35.590	25.338	0.00	0.00
ATOM	2004	OD1	ASP	X	130	33.864	35.849	25.463	0.00	0.00
ATOM	2005	OD2	ASP	X	130	35.627	35.630	24.212	0.00	0.00
ATOM	2006	C	ASP	X	130	34.151	35.322	28.391	0.00	0.00
ATOM	2007	O	ASP	X	130	33.962	34.108	28.603	0.00	0.00

ATOM	2008	N	GLY	X	131	33.173	36.197	28.678	0.00	0.00
ATOM	2009	H	GLY	X	131	33.514	37.141	28.799	0.00	0.00
ATOM	2010	CA	GLY	X	131	31.819	35.921	29.213	0.00	0.00
ATOM	2011	HA2	GLY	X	131	31.995	35.250	30.054	0.00	0.00
ATOM	2012	HA3	GLY	X	131	31.356	36.848	29.553	0.00	0.00
ATOM	2013	C	GLY	X	131	30.869	35.265	28.219	0.00	0.00
ATOM	2014	O	GLY	X	131	29.812	34.893	28.688	0.00	0.00
ATOM	2015	N	ARG	X	132	31.289	34.961	26.977	0.00	0.00
ATOM	2016	H	ARG	X	132	32.194	35.270	26.650	0.00	0.00
ATOM	2017	CA	ARG	X	132	30.466	34.267	26.041	0.00	0.00
ATOM	2018	HA	ARG	X	132	29.683	35.011	25.892	0.00	0.00
ATOM	2019	CB	ARG	X	132	31.098	34.148	24.656	0.00	0.00
ATOM	2020	HB2	ARG	X	132	30.252	33.971	23.991	0.00	0.00
ATOM	2021	HB3	ARG	X	132	31.458	35.135	24.365	0.00	0.00
ATOM	2022	CG	ARG	X	132	32.165	33.115	24.525	0.00	0.00
ATOM	2023	HG2	ARG	X	132	32.995	33.387	25.177	0.00	0.00
ATOM	2024	HG3	ARG	X	132	31.656	32.183	24.771	0.00	0.00
ATOM	2025	CD	ARG	X	132	32.609	32.950	23.042	0.00	0.00
ATOM	2026	HD2	ARG	X	132	32.894	31.898	23.066	0.00	0.00
ATOM	2027	HD3	ARG	X	132	31.847	33.065	22.271	0.00	0.00
ATOM	2028	NE	ARG	X	132	33.742	33.815	22.774	0.00	0.00
ATOM	2029	HE	ARG	X	132	34.044	34.504	23.449	0.00	0.00
ATOM	2030	CZ	ARG	X	132	34.502	33.815	21.683	0.00	0.00
ATOM	2031	NH1	ARG	X	132	34.264	33.089	20.622	0.00	0.00
ATOM	2032	HH11	ARG	X	132	33.545	32.381	20.588	0.00	0.00
ATOM	2033	HH12	ARG	X	132	34.809	33.165	19.775	0.00	0.00
ATOM	2034	NH2	ARG	X	132	35.649	34.494	21.619	0.00	0.00
ATOM	2035	HH21	ARG	X	132	35.989	34.981	22.436	0.00	0.00
ATOM	2036	HH22	ARG	X	132	36.134	34.584	20.738	0.00	0.00
ATOM	2037	C	ARG	X	132	29.845	32.961	26.546	0.00	0.00
ATOM	2038	O	ARG	X	132	28.655	32.750	26.385	0.00	0.00
ATOM	2039	N	PHE	X	133	30.610	32.082	27.138	0.00	0.00
ATOM	2040	H	PHE	X	133	31.585	32.301	27.282	0.00	0.00
ATOM	2041	CA	PHE	X	133	30.074	30.730	27.587	0.00	0.00
ATOM	2042	HA	PHE	X	133	29.513	30.206	26.813	0.00	0.00
ATOM	2043	CB	PHE	X	133	31.262	29.918	28.087	0.00	0.00
ATOM	2044	HB2	PHE	X	133	31.639	30.277	29.045	0.00	0.00
ATOM	2045	HB3	PHE	X	133	30.878	28.900	28.150	0.00	0.00
ATOM	2046	CG	PHE	X	133	32.396	29.926	27.115	0.00	0.00
ATOM	2047	CD1	PHE	X	133	33.485	30.849	27.232	0.00	0.00
ATOM	2048	HD1	PHE	X	133	33.546	31.541	28.059	0.00	0.00
ATOM	2049	CE1	PHE	X	133	34.525	30.867	26.298	0.00	0.00
ATOM	2050	HE1	PHE	X	133	35.322	31.572	26.485	0.00	0.00
ATOM	2051	CZ	PHE	X	133	34.483	29.967	25.203	0.00	0.00
ATOM	2052	HZ	PHE	X	133	35.295	29.907	24.493	0.00	0.00
ATOM	2053	CE2	PHE	X	133	33.429	29.040	25.057	0.00	0.00
ATOM	2054	HE2	PHE	X	133	33.342	28.438	24.165	0.00	0.00
ATOM	2055	CD2	PHE	X	133	32.373	29.077	26.041	0.00	0.00
ATOM	2056	HD2	PHE	X	133	31.523	28.420	25.934	0.00	0.00
ATOM	2057	C	PHE	X	133	28.965	30.928	28.700	0.00	0.00
ATOM	2058	O	PHE	X	133	27.843	30.458	28.455	0.00	0.00
ATOM	2059	N	LEU	X	134	29.281	31.677	29.731	0.00	0.00
ATOM	2060	H	LEU	X	134	30.241	31.912	29.942	0.00	0.00
ATOM	2061	CA	LEU	X	134	28.376	32.092	30.805	0.00	0.00
ATOM	2062	HA	LEU	X	134	28.025	31.205	31.333	0.00	0.00
ATOM	2063	CB	LEU	X	134	29.107	33.074	31.728	0.00	0.00
ATOM	2064	HB2	LEU	X	134	29.878	32.476	32.213	0.00	0.00
ATOM	2065	HB3	LEU	X	134	29.590	33.889	31.188	0.00	0.00
ATOM	2066	CG	LEU	X	134	28.281	33.635	32.913	0.00	0.00
ATOM	2067	HG	LEU	X	134	27.469	34.246	32.519	0.00	0.00
ATOM	2068	CD1	LEU	X	134	27.594	32.548	33.744	0.00	0.00
ATOM	2069	HD11	LEU	X	134	26.873	31.895	33.251	0.00	0.00
ATOM	2070	HD12	LEU	X	134	27.162	33.098	34.581	0.00	0.00
ATOM	2071	HD13	LEU	X	134	28.387	31.911	34.136	0.00	0.00
ATOM	2072	CD2	LEU	X	134	29.172	34.521	33.734	0.00	0.00
ATOM	2073	HD21	LEU	X	134	28.542	34.907	34.536	0.00	0.00
ATOM	2074	HD22	LEU	X	134	29.938	33.938	34.246	0.00	0.00

ATOM	2075	HD23	LEU	X	134	29.511	35.331	33.089	0.00	0.00
ATOM	2076	C	LEU	X	134	27.104	32.767	30.254	0.00	0.00
ATOM	2077	O	LEU	X	134	25.999	32.259	30.504	0.00	0.00
ATOM	2078	N	VAL	X	135	27.280	33.852	29.464	0.00	0.00
ATOM	2079	H	VAL	X	135	28.238	34.137	29.318	0.00	0.00
ATOM	2080	CA	VAL	X	135	26.141	34.614	28.836	0.00	0.00
ATOM	2081	HA	VAL	X	135	25.492	34.908	29.661	0.00	0.00
ATOM	2082	CB	VAL	X	135	26.699	35.924	28.201	0.00	0.00
ATOM	2083	HB	VAL	X	135	27.551	35.640	27.583	0.00	0.00
ATOM	2084	CG1	VAL	X	135	25.682	36.661	27.251	0.00	0.00
ATOM	2085	HG11	VAL	X	135	24.740	36.871	27.757	0.00	0.00
ATOM	2086	HG12	VAL	X	135	26.048	37.584	26.802	0.00	0.00
ATOM	2087	HG13	VAL	X	135	25.321	35.997	26.466	0.00	0.00
ATOM	2088	CG2	VAL	X	135	27.147	36.944	29.170	0.00	0.00
ATOM	2089	HG21	VAL	X	135	26.317	37.073	29.864	0.00	0.00
ATOM	2090	HG22	VAL	X	135	27.572	37.837	28.713	0.00	0.00
ATOM	2091	HG23	VAL	X	135	27.967	36.520	29.751	0.00	0.00
ATOM	2092	C	VAL	X	135	25.249	33.828	27.840	0.00	0.00
ATOM	2093	O	VAL	X	135	24.044	34.085	27.815	0.00	0.00
ATOM	2094	N	GLN	X	136	25.776	32.863	27.069	0.00	0.00
ATOM	2095	H	GLN	X	136	26.780	32.801	27.151	0.00	0.00
ATOM	2096	CA	GLN	X	136	25.011	32.024	26.137	0.00	0.00
ATOM	2097	HA	GLN	X	136	24.217	32.557	25.613	0.00	0.00
ATOM	2098	CB	GLN	X	136	26.002	31.522	25.124	0.00	0.00
ATOM	2099	HB2	GLN	X	136	26.621	32.338	24.752	0.00	0.00
ATOM	2100	HB3	GLN	X	136	26.686	30.791	25.553	0.00	0.00
ATOM	2101	CG	GLN	X	136	25.310	30.811	23.892	0.00	0.00
ATOM	2102	HG2	GLN	X	136	24.292	31.199	23.850	0.00	0.00
ATOM	2103	HG3	GLN	X	136	25.796	31.055	22.948	0.00	0.00
ATOM	2104	CD	GLN	X	136	25.331	29.294	23.919	0.00	0.00
ATOM	2105	OE1	GLN	X	136	26.185	28.616	23.344	0.00	0.00
ATOM	2106	NE2	GLN	X	136	24.474	28.650	24.608	0.00	0.00
ATOM	2107	HE21	GLN	X	136	24.552	27.649	24.720	0.00	0.00
ATOM	2108	HE22	GLN	X	136	23.844	29.232	25.141	0.00	0.00
ATOM	2109	C	GLN	X	136	24.295	30.856	26.891	0.00	0.00
ATOM	2110	O	GLN	X	136	23.255	30.364	26.427	0.00	0.00
ATOM	2111	N	ALA	X	137	24.838	30.318	28.007	0.00	0.00
ATOM	2112	H	ALA	X	137	25.698	30.722	28.349	0.00	0.00
ATOM	2113	CA	ALA	X	137	24.231	29.286	28.862	0.00	0.00
ATOM	2114	HA	ALA	X	137	23.833	28.423	28.327	0.00	0.00
ATOM	2115	CB	ALA	X	137	25.355	28.697	29.708	0.00	0.00
ATOM	2116	HB1	ALA	X	137	26.148	28.182	29.166	0.00	0.00
ATOM	2117	HB2	ALA	X	137	24.943	27.956	30.393	0.00	0.00
ATOM	2118	HB3	ALA	X	137	25.789	29.462	30.353	0.00	0.00
ATOM	2119	C	ALA	X	137	23.118	29.829	29.787	0.00	0.00
ATOM	2120	O	ALA	X	137	22.039	29.252	29.837	0.00	0.00
ATOM	2121	N	GLU	X	138	23.356	31.002	30.457	0.00	0.00
ATOM	2122	H	GLU	X	138	24.288	31.385	30.391	0.00	0.00
ATOM	2123	CA	GLU	X	138	22.563	31.447	31.584	0.00	0.00
ATOM	2124	HA	GLU	X	138	21.792	30.733	31.870	0.00	0.00
ATOM	2125	CB	GLU	X	138	23.478	31.551	32.861	0.00	0.00
ATOM	2126	HB2	GLU	X	138	24.374	32.104	32.580	0.00	0.00
ATOM	2127	HB3	GLU	X	138	22.933	32.078	33.644	0.00	0.00
ATOM	2128	CG	GLU	X	138	23.813	30.059	33.361	0.00	0.00
ATOM	2129	HG2	GLU	X	138	24.441	29.500	32.668	0.00	0.00
ATOM	2130	HG3	GLU	X	138	24.347	30.256	34.291	0.00	0.00
ATOM	2131	CD	GLU	X	138	22.582	29.267	33.749	0.00	0.00
ATOM	2132	OE1	GLU	X	138	21.812	29.688	34.695	0.00	0.00
ATOM	2133	OE2	GLU	X	138	22.368	28.188	33.181	0.00	0.00
ATOM	2134	C	GLU	X	138	21.830	32.823	31.385	0.00	0.00
ATOM	2135	O	GLU	X	138	21.102	33.276	32.255	0.00	0.00
ATOM	2136	N	ARG	X	139	22.108	33.460	30.228	0.00	0.00
ATOM	2137	H	ARG	X	139	22.769	33.065	29.575	0.00	0.00
ATOM	2138	CA	ARG	X	139	21.240	34.536	29.715	0.00	0.00
ATOM	2139	HA	ARG	X	139	21.676	34.878	28.777	0.00	0.00
ATOM	2140	CB	ARG	X	139	19.853	33.965	29.384	0.00	0.00
ATOM	2141	HB2	ARG	X	139	19.823	32.880	29.283	0.00	0.00

ATOM	2142	HB3	ARG	X	139	19.187	34.186	30.218	0.00	0.00
ATOM	2143	CG	ARG	X	139	19.360	34.578	28.048	0.00	0.00
ATOM	2144	HG2	ARG	X	139	19.339	35.664	28.145	0.00	0.00
ATOM	2145	HG3	ARG	X	139	20.172	34.367	27.353	0.00	0.00
ATOM	2146	CD	ARG	X	139	18.019	33.990	27.475	0.00	0.00
ATOM	2147	HD2	ARG	X	139	17.970	32.932	27.733	0.00	0.00
ATOM	2148	HD3	ARG	X	139	17.144	34.460	27.925	0.00	0.00
ATOM	2149	NE	ARG	X	139	18.002	34.069	25.994	0.00	0.00
ATOM	2150	HE	ARG	X	139	18.027	33.168	25.538	0.00	0.00
ATOM	2151	CZ	ARG	X	139	17.960	35.160	25.317	0.00	0.00
ATOM	2152	NH1	ARG	X	139	17.934	36.378	25.767	0.00	0.00
ATOM	2153	HH11	ARG	X	139	18.007	36.526	26.764	0.00	0.00
ATOM	2154	HH12	ARG	X	139	17.921	37.109	25.071	0.00	0.00
ATOM	2155	NH2	ARG	X	139	17.975	35.012	24.000	0.00	0.00
ATOM	2156	HH21	ARG	X	139	18.138	34.096	23.607	0.00	0.00
ATOM	2157	HH22	ARG	X	139	18.022	35.820	23.395	0.00	0.00
ATOM	2158	C	ARG	X	139	21.229	35.839	30.611	0.00	0.00
ATOM	2159	O	ARG	X	139	20.324	36.681	30.357	0.00	0.00
ATOM	2160	N	THR	X	140	22.149	35.905	31.611	0.00	0.00
ATOM	2161	H	THR	X	140	22.825	35.158	31.675	0.00	0.00
ATOM	2162	CA	THR	X	140	22.677	37.114	32.261	0.00	0.00
ATOM	2163	HA	THR	X	140	21.784	37.584	32.675	0.00	0.00
ATOM	2164	CB	THR	X	140	23.588	36.719	33.445	0.00	0.00
ATOM	2165	HB	THR	X	140	24.058	37.597	33.888	0.00	0.00
ATOM	2166	CG2	THR	X	140	22.785	36.017	34.530	0.00	0.00
ATOM	2167	HG21	THR	X	140	23.483	35.910	35.359	0.00	0.00
ATOM	2168	HG22	THR	X	140	22.444	35.071	34.108	0.00	0.00
ATOM	2169	HG23	THR	X	140	21.903	36.596	34.804	0.00	0.00
ATOM	2170	OG1	THR	X	140	24.574	35.887	32.904	0.00	0.00
ATOM	2171	HG1	THR	X	140	25.033	36.406	32.239	0.00	0.00
ATOM	2172	C	THR	X	140	23.382	38.106	31.374	0.00	0.00
ATOM	2173	O	THR	X	140	23.776	37.631	30.296	0.00	0.00
ATOM	2174	N	VAL	X	141	23.581	39.322	31.705	0.00	0.00
ATOM	2175	H	VAL	X	141	23.292	39.676	32.606	0.00	0.00
ATOM	2176	CA	VAL	X	141	24.586	40.267	31.108	0.00	0.00
ATOM	2177	HA	VAL	X	141	24.677	40.045	30.045	0.00	0.00
ATOM	2178	CB	VAL	X	141	24.102	41.697	31.098	0.00	0.00
ATOM	2179	HB	VAL	X	141	23.644	41.942	32.057	0.00	0.00
ATOM	2180	CG1	VAL	X	141	25.189	42.774	30.834	0.00	0.00
ATOM	2181	HG11	VAL	X	141	25.623	42.698	29.836	0.00	0.00
ATOM	2182	HG12	VAL	X	141	24.680	43.726	30.984	0.00	0.00
ATOM	2183	HG13	VAL	X	141	25.931	42.700	31.628	0.00	0.00
ATOM	2184	CG2	VAL	X	141	23.048	41.824	30.006	0.00	0.00
ATOM	2185	HG21	VAL	X	141	22.288	41.044	30.053	0.00	0.00
ATOM	2186	HG22	VAL	X	141	23.507	41.785	29.017	0.00	0.00
ATOM	2187	HG23	VAL	X	141	22.640	42.833	30.055	0.00	0.00
ATOM	2188	C	VAL	X	141	25.903	40.112	31.866	0.00	0.00
ATOM	2189	O	VAL	X	141	25.887	39.734	33.046	0.00	0.00
ATOM	2190	N	LEU	X	142	27.013	40.233	31.214	0.00	0.00
ATOM	2191	H	LEU	X	142	26.935	40.558	30.261	0.00	0.00
ATOM	2192	CA	LEU	X	142	28.351	40.126	31.785	0.00	0.00
ATOM	2193	HA	LEU	X	142	28.287	40.132	32.873	0.00	0.00
ATOM	2194	CB	LEU	X	142	29.014	38.800	31.412	0.00	0.00
ATOM	2195	HB2	LEU	X	142	28.295	38.006	31.615	0.00	0.00
ATOM	2196	HB3	LEU	X	142	29.078	38.691	30.329	0.00	0.00
ATOM	2197	CG	LEU	X	142	30.379	38.432	31.901	0.00	0.00
ATOM	2198	HG	LEU	X	142	30.562	37.367	31.761	0.00	0.00
ATOM	2199	CD1	LEU	X	142	31.495	39.162	31.136	0.00	0.00
ATOM	2200	HD11	LEU	X	142	31.578	40.193	31.480	0.00	0.00
ATOM	2201	HD12	LEU	X	142	31.436	39.040	30.055	0.00	0.00
ATOM	2202	HD13	LEU	X	142	32.468	38.712	31.335	0.00	0.00
ATOM	2203	CD2	LEU	X	142	30.697	38.732	33.352	0.00	0.00
ATOM	2204	HD21	LEU	X	142	30.173	38.041	34.012	0.00	0.00
ATOM	2205	HD22	LEU	X	142	31.734	38.476	33.569	0.00	0.00
ATOM	2206	HD23	LEU	X	142	30.431	39.746	33.652	0.00	0.00
ATOM	2207	C	LEU	X	142	29.112	41.410	31.359	0.00	0.00
ATOM	2208	O	LEU	X	142	29.170	41.699	30.146	0.00	0.00

ATOM	2209	N	VAL	X	143	29.861	42.020	32.255	0.00	0.00
ATOM	2210	H	VAL	X	143	29.777	41.747	33.224	0.00	0.00
ATOM	2211	CA	VAL	X	143	30.700	43.256	32.043	0.00	0.00
ATOM	2212	HA	VAL	X	143	30.745	43.456	30.973	0.00	0.00
ATOM	2213	CB	VAL	X	143	30.038	44.463	32.750	0.00	0.00
ATOM	2214	HB	VAL	X	143	30.038	44.354	33.834	0.00	0.00
ATOM	2215	CG1	VAL	X	143	30.749	45.818	32.453	0.00	0.00
ATOM	2216	HG11	VAL	X	143	30.761	45.966	31.373	0.00	0.00
ATOM	2217	HG12	VAL	X	143	30.265	46.739	32.777	0.00	0.00
ATOM	2218	HG13	VAL	X	143	31.767	45.787	32.842	0.00	0.00
ATOM	2219	CG2	VAL	X	143	28.634	44.683	32.279	0.00	0.00
ATOM	2220	HG21	VAL	X	143	28.286	45.638	32.673	0.00	0.00
ATOM	2221	HG22	VAL	X	143	28.070	43.821	32.636	0.00	0.00
ATOM	2222	HG23	VAL	X	143	28.510	44.652	31.197	0.00	0.00
ATOM	2223	C	VAL	X	143	32.125	43.040	32.535	0.00	0.00
ATOM	2224	O	VAL	X	143	32.309	42.322	33.534	0.00	0.00
ATOM	2225	N	SER	X	144	33.150	43.688	31.925	0.00	0.00
ATOM	2226	H	SER	X	144	33.008	44.330	31.159	0.00	0.00
ATOM	2227	CA	SER	X	144	34.494	43.736	32.523	0.00	0.00
ATOM	2228	HA	SER	X	144	34.333	43.642	33.597	0.00	0.00
ATOM	2229	CB	SER	X	144	35.370	42.505	32.135	0.00	0.00
ATOM	2230	HB2	SER	X	144	36.194	42.375	32.837	0.00	0.00
ATOM	2231	HB3	SER	X	144	34.737	41.620	32.202	0.00	0.00
ATOM	2232	OG	SER	X	144	35.872	42.584	30.830	0.00	0.00
ATOM	2233	HG	SER	X	144	36.070	41.670	30.614	0.00	0.00
ATOM	2234	C	SER	X	144	35.104	45.113	32.168	0.00	0.00
ATOM	2235	O	SER	X	144	34.857	45.600	31.047	0.00	0.00
ATOM	2236	N	MET	X	145	35.976	45.683	33.049	0.00	0.00
ATOM	2237	H	MET	X	145	36.128	45.198	33.922	0.00	0.00
ATOM	2238	CA	MET	X	145	36.638	46.976	32.785	0.00	0.00
ATOM	2239	HA	MET	X	145	36.469	47.234	31.740	0.00	0.00
ATOM	2240	CB	MET	X	145	36.027	48.115	33.613	0.00	0.00
ATOM	2241	HB2	MET	X	145	36.307	49.023	33.078	0.00	0.00
ATOM	2242	HB3	MET	X	145	34.968	47.974	33.829	0.00	0.00
ATOM	2243	CG	MET	X	145	36.636	48.324	35.016	0.00	0.00
ATOM	2244	HG2	MET	X	145	37.720	48.362	34.905	0.00	0.00
ATOM	2245	HD3	MET	X	145	36.257	49.278	35.383	0.00	0.00
ATOM	2246	SD	MET	X	145	36.269	46.975	36.220	0.00	0.00
ATOM	2247	CE	MET	X	145	34.532	47.346	36.523	0.00	0.00
ATOM	2248	HE1	MET	X	145	34.039	46.635	37.186	0.00	0.00
ATOM	2249	HE2	MET	X	145	34.452	48.313	37.019	0.00	0.00
ATOM	2250	HE3	MET	X	145	34.010	47.205	35.577	0.00	0.00
ATOM	2251	C	MET	X	145	38.130	46.872	33.008	0.00	0.00
ATOM	2252	O	MET	X	145	38.569	46.156	33.848	0.00	0.00
ATOM	2253	N	ASN	X	146	38.921	47.638	32.264	0.00	0.00
ATOM	2254	H	ASN	X	146	38.542	48.064	31.430	0.00	0.00
ATOM	2255	CA	ASN	X	146	40.262	48.019	32.655	0.00	0.00
ATOM	2256	HA	ASN	X	146	40.757	47.127	33.041	0.00	0.00
ATOM	2257	CB	ASN	X	146	41.100	48.532	31.472	0.00	0.00
ATOM	2258	HB2	ASN	X	146	40.539	49.201	30.819	0.00	0.00
ATOM	2259	HB3	ASN	X	146	41.996	49.038	31.833	0.00	0.00
ATOM	2260	CG	ASN	X	146	41.718	47.467	30.484	0.00	0.00
ATOM	2261	OD1	ASN	X	146	41.678	46.260	30.564	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.295	47.989	29.374	0.00	0.00
ATOM	2263	HD21	ASN	X	146	42.566	47.405	28.596	0.00	0.00
ATOM	2264	HD22	ASN	X	146	42.264	48.996	29.293	0.00	0.00
ATOM	2265	C	ASN	X	146	40.289	49.122	33.678	0.00	0.00
ATOM	2266	O	ASN	X	146	39.421	49.995	33.809	0.00	0.00
ATOM	2267	N	TYR	X	147	41.380	49.089	34.467	0.00	0.00
ATOM	2268	H	TYR	X	147	42.186	48.563	34.161	0.00	0.00
ATOM	2269	CA	TYR	X	147	41.743	50.128	35.433	0.00	0.00
ATOM	2270	HA	TYR	X	147	41.383	51.099	35.093	0.00	0.00
ATOM	2271	CB	TYR	X	147	41.085	49.838	36.802	0.00	0.00
ATOM	2272	HB2	TYR	X	147	41.363	50.586	37.546	0.00	0.00
ATOM	2273	HB3	TYR	X	147	40.021	50.058	36.710	0.00	0.00
ATOM	2274	CG	TYR	X	147	41.267	48.471	37.395	0.00	0.00
ATOM	2275	CD1	TYR	X	147	40.415	47.397	37.003	0.00	0.00

ATOM	2276	HD1	TYR	X	147	39.628	47.541	36.278	0.00	0.00
ATOM	2277	CE1	TYR	X	147	40.548	46.158	37.520	0.00	0.00
ATOM	2278	HE1	TYR	X	147	39.828	45.430	37.177	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.587	45.848	38.406	0.00	0.00
ATOM	2280	OH	TYR	X	147	41.759	44.606	38.917	0.00	0.00
ATOM	2281	HH	TYR	X	147	42.537	44.487	39.466	0.00	0.00
ATOM	2282	CE2	TYR	X	147	42.482	46.883	38.783	0.00	0.00
ATOM	2283	HE2	TYR	X	147	43.338	46.682	39.409	0.00	0.00
ATOM	2284	CD2	TYR	X	147	42.343	48.151	38.253	0.00	0.00
ATOM	2285	HD2	TYR	X	147	43.113	48.878	38.467	0.00	0.00
ATOM	2286	C	TYR	X	147	43.280	50.211	35.546	0.00	0.00
ATOM	2287	O	TYR	X	147	43.990	49.255	35.218	0.00	0.00
ATOM	2288	N	ARG	X	148	43.737	51.332	36.166	0.00	0.00
ATOM	2289	H	ARG	X	148	43.115	52.078	36.442	0.00	0.00
ATOM	2290	CA	ARG	X	148	45.181	51.508	36.352	0.00	0.00
ATOM	2291	HA	ARG	X	148	45.711	51.242	35.437	0.00	0.00
ATOM	2292	CB	ARG	X	148	45.466	53.017	36.643	0.00	0.00
ATOM	2293	HB2	ARG	X	148	44.757	53.296	37.423	0.00	0.00
ATOM	2294	HB3	ARG	X	148	46.502	53.184	36.936	0.00	0.00
ATOM	2295	CG	ARG	X	148	45.278	53.818	35.335	0.00	0.00
ATOM	2296	HG2	ARG	X	148	46.120	53.645	34.664	0.00	0.00
ATOM	2297	HG3	ARG	X	148	44.397	53.619	34.724	0.00	0.00
ATOM	2298	CD	ARG	X	148	45.338	55.300	35.639	0.00	0.00
ATOM	2299	HD2	ARG	X	148	46.137	55.490	36.355	0.00	0.00
ATOM	2300	HD3	ARG	X	148	45.586	55.824	34.716	0.00	0.00
ATOM	2301	NE	ARG	X	148	44.052	55.714	36.211	0.00	0.00
ATOM	2302	HE	ARG	X	148	43.337	55.008	36.319	0.00	0.00
ATOM	2303	CZ	ARG	X	148	43.841	56.913	36.666	0.00	0.00
ATOM	2304	NH1	ARG	X	148	44.746	57.890	36.543	0.00	0.00
ATOM	2305	HH11	ARG	X	148	45.607	57.591	36.106	0.00	0.00
ATOM	2306	HH12	ARG	X	148	44.453	58.818	36.813	0.00	0.00
ATOM	2307	NH2	ARG	X	148	42.704	57.305	37.202	0.00	0.00
ATOM	2308	HH21	ARG	X	148	41.928	56.665	37.120	0.00	0.00
ATOM	2309	HH22	ARG	X	148	42.571	58.281	37.427	0.00	0.00
ATOM	2310	C	ARG	X	148	45.673	50.609	37.502	0.00	0.00
ATOM	2311	O	ARG	X	148	45.046	50.599	38.569	0.00	0.00
ATOM	2312	N	VAL	X	149	46.816	49.948	37.320	0.00	0.00
ATOM	2313	H	VAL	X	149	47.288	50.140	36.448	0.00	0.00
ATOM	2314	CA	VAL	X	149	47.524	49.064	38.214	0.00	0.00
ATOM	2315	HA	VAL	X	149	47.059	48.960	39.195	0.00	0.00
ATOM	2316	CB	VAL	X	149	47.529	47.656	37.620	0.00	0.00
ATOM	2317	HB	VAL	X	149	48.277	47.005	38.071	0.00	0.00
ATOM	2318	CG1	VAL	X	149	46.126	46.980	37.749	0.00	0.00
ATOM	2319	HG11	VAL	X	149	46.206	45.955	37.386	0.00	0.00
ATOM	2320	HG12	VAL	X	149	45.862	46.916	38.805	0.00	0.00
ATOM	2321	HG13	VAL	X	149	45.295	47.477	37.248	0.00	0.00
ATOM	2322	CG2	VAL	X	149	48.002	47.580	36.140	0.00	0.00
ATOM	2323	HG21	VAL	X	149	48.023	46.504	35.968	0.00	0.00
ATOM	2324	HG22	VAL	X	149	48.928	48.118	35.937	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.181	47.987	35.550	0.00	0.00
ATOM	2326	C	VAL	X	149	49.013	49.570	38.394	0.00	0.00
ATOM	2327	O	VAL	X	149	49.431	50.444	37.628	0.00	0.00
ATOM	2328	N	GLY	X	150	49.722	49.062	39.347	0.00	0.00
ATOM	2329	H	GLY	X	150	49.235	48.433	39.969	0.00	0.00
ATOM	2330	CA	GLY	X	150	51.101	49.400	39.684	0.00	0.00
ATOM	2331	HA2	GLY	X	150	51.417	48.734	40.487	0.00	0.00
ATOM	2332	HA3	GLY	X	150	51.777	49.136	38.871	0.00	0.00
ATOM	2333	C	GLY	X	150	51.186	50.899	40.129	0.00	0.00
ATOM	2334	O	GLY	X	150	50.248	51.485	40.634	0.00	0.00
ATOM	2335	N	ALA	X	151	52.273	51.573	39.899	0.00	0.00
ATOM	2336	H	ALA	X	151	53.050	50.968	39.673	0.00	0.00
ATOM	2337	CA	ALA	X	151	52.476	52.988	40.218	0.00	0.00
ATOM	2338	HA	ALA	X	151	52.405	53.114	41.298	0.00	0.00
ATOM	2339	CB	ALA	X	151	53.894	53.356	39.745	0.00	0.00
ATOM	2340	HB1	ALA	X	151	54.591	52.759	40.333	0.00	0.00
ATOM	2341	HB2	ALA	X	151	54.110	54.404	39.951	0.00	0.00
ATOM	2342	HB3	ALA	X	151	53.991	53.203	38.670	0.00	0.00

ATOM	2343	C	ALA	X	151	51.401	53.847	39.575	0.00	0.00
ATOM	2344	O	ALA	X	151	50.835	54.759	40.233	0.00	0.00
ATOM	2345	N	PHE	X	152	51.048	53.626	38.293	0.00	0.00
ATOM	2346	H	PHE	X	152	51.479	52.831	37.843	0.00	0.00
ATOM	2347	CA	PHE	X	152	50.000	54.336	37.549	0.00	0.00
ATOM	2348	HA	PHE	X	152	50.342	55.344	37.316	0.00	0.00
ATOM	2349	CB	PHE	X	152	49.784	53.741	36.146	0.00	0.00
ATOM	2350	HB2	PHE	X	152	49.332	52.754	36.242	0.00	0.00
ATOM	2351	HB3	PHE	X	152	49.158	54.321	35.468	0.00	0.00
ATOM	2352	CG	PHE	X	152	51.127	53.553	35.439	0.00	0.00
ATOM	2353	CD1	PHE	X	152	51.807	52.295	35.561	0.00	0.00
ATOM	2354	HD1	PHE	X	152	51.487	51.545	36.270	0.00	0.00
ATOM	2355	CE1	PHE	X	152	53.057	52.118	34.892	0.00	0.00
ATOM	2356	HE1	PHE	X	152	53.723	51.303	35.135	0.00	0.00
ATOM	2357	CZ	PHE	X	152	53.499	53.116	34.029	0.00	0.00
ATOM	2358	HZ	PHE	X	152	54.507	53.011	33.657	0.00	0.00
ATOM	2359	CE2	PHE	X	152	52.820	54.344	33.924	0.00	0.00
ATOM	2360	HE2	PHE	X	152	53.282	55.213	33.479	0.00	0.00
ATOM	2361	CD2	PHE	X	152	51.595	54.579	34.613	0.00	0.00
ATOM	2362	HD2	PHE	X	152	51.020	55.479	34.454	0.00	0.00
ATOM	2363	C	PHE	X	152	48.683	54.506	38.277	0.00	0.00
ATOM	2364	O	PHE	X	152	47.977	55.463	37.985	0.00	0.00
ATOM	2365	N	GLY	X	153	48.287	53.476	39.081	0.00	0.00
ATOM	2366	H	GLY	X	153	48.870	52.662	39.217	0.00	0.00
ATOM	2367	CA	GLY	X	153	47.016	53.516	39.718	0.00	0.00
ATOM	2368	HA2	GLY	X	153	46.440	54.384	39.397	0.00	0.00
ATOM	2369	HA3	GLY	X	153	46.522	52.564	39.524	0.00	0.00
ATOM	2370	C	GLY	X	153	47.073	53.610	41.206	0.00	0.00
ATOM	2371	O	GLY	X	153	46.050	53.899	41.810	0.00	0.00
ATOM	2372	N	PHE	X	154	48.206	53.280	41.843	0.00	0.00
ATOM	2373	H	PHE	X	154	48.935	52.935	41.234	0.00	0.00
ATOM	2374	CA	PHE	X	154	48.392	53.136	43.236	0.00	0.00
ATOM	2375	HA	PHE	X	154	47.556	53.564	43.790	0.00	0.00
ATOM	2376	CB	PHE	X	154	48.231	51.612	43.552	0.00	0.00
ATOM	2377	HB2	PHE	X	154	48.919	51.033	42.937	0.00	0.00
ATOM	2378	HB3	PHE	X	154	48.488	51.392	44.588	0.00	0.00
ATOM	2379	CG	PHE	X	154	46.848	51.007	43.316	0.00	0.00
ATOM	2380	CD1	PHE	X	154	46.547	50.173	42.198	0.00	0.00
ATOM	2381	HD1	PHE	X	154	47.364	49.813	41.591	0.00	0.00
ATOM	2382	CE1	PHE	X	154	45.212	49.779	41.924	0.00	0.00
ATOM	2383	HE1	PHE	X	154	44.978	49.114	41.106	0.00	0.00
ATOM	2384	CZ	PHE	X	154	44.188	50.158	42.824	0.00	0.00
ATOM	2385	HZ	PHE	X	154	43.172	49.945	42.528	0.00	0.00
ATOM	2386	CE2	PHE	X	154	44.533	50.893	43.977	0.00	0.00
ATOM	2387	HE2	PHE	X	154	43.785	51.096	44.729	0.00	0.00
ATOM	2388	CD2	PHE	X	154	45.858	51.389	44.207	0.00	0.00
ATOM	2389	HD2	PHE	X	154	46.120	52.068	45.005	0.00	0.00
ATOM	2390	C	PHE	X	154	49.672	53.752	43.820	0.00	0.00
ATOM	2391	O	PHE	X	154	49.952	53.538	45.020	0.00	0.00
ATOM	2392	N	LEU	X	155	50.435	54.477	43.069	0.00	0.00
ATOM	2393	H	LEU	X	155	50.247	54.548	42.080	0.00	0.00
ATOM	2394	CA	LEU	X	155	51.426	55.356	43.713	0.00	0.00
ATOM	2395	HA	LEU	X	155	52.055	54.859	44.452	0.00	0.00
ATOM	2396	CB	LEU	X	155	52.408	55.899	42.651	0.00	0.00
ATOM	2397	HB2	LEU	X	155	52.838	55.031	42.151	0.00	0.00
ATOM	2398	HB3	LEU	X	155	51.755	56.386	41.927	0.00	0.00
ATOM	2399	CG	LEU	X	155	53.508	56.846	43.168	0.00	0.00
ATOM	2400	HG	LEU	X	155	53.728	56.611	44.210	0.00	0.00
ATOM	2401	CD1	LEU	X	155	54.838	56.745	42.376	0.00	0.00
ATOM	2402	HD11	LEU	X	155	54.792	56.914	41.300	0.00	0.00
ATOM	2403	HD12	LEU	X	155	55.201	55.721	42.457	0.00	0.00
ATOM	2404	HD13	LEU	X	155	55.622	57.349	42.832	0.00	0.00
ATOM	2405	CD2	LEU	X	155	53.093	58.306	43.053	0.00	0.00
ATOM	2406	HD21	LEU	X	155	52.192	58.466	43.646	0.00	0.00
ATOM	2407	HD22	LEU	X	155	53.900	58.904	43.476	0.00	0.00
ATOM	2408	HD23	LEU	X	155	52.952	58.637	42.024	0.00	0.00
ATOM	2409	C	LEU	X	155	50.568	56.481	44.444	0.00	0.00

ATOM	2410	O	LEU	X	155	49.688	57.052	43.898	0.00	0.00
ATOM	2411	N	ALA	X	156	51.000	56.736	45.660	0.00	0.00
ATOM	2412	H	ALA	X	156	51.744	56.126	45.968	0.00	0.00
ATOM	2413	CA	ALA	X	156	50.229	57.558	46.541	0.00	0.00
ATOM	2414	HA	ALA	X	156	49.518	58.164	45.980	0.00	0.00
ATOM	2415	CB	ALA	X	156	49.478	56.627	47.470	0.00	0.00
ATOM	2416	HB1	ALA	X	156	48.787	57.221	48.067	0.00	0.00
ATOM	2417	HB2	ALA	X	156	50.140	56.169	48.205	0.00	0.00
ATOM	2418	HB3	ALA	X	156	48.893	55.897	46.911	0.00	0.00
ATOM	2419	C	ALA	X	156	51.093	58.522	47.397	0.00	0.00
ATOM	2420	O	ALA	X	156	51.928	58.035	48.206	0.00	0.00
ATOM	2421	N	LEU	X	157	50.803	59.816	47.309	0.00	0.00
ATOM	2422	H	LEU	X	157	50.125	60.087	46.612	0.00	0.00
ATOM	2423	CA	LEU	X	157	51.119	60.861	48.295	0.00	0.00
ATOM	2424	HA	LEU	X	157	51.726	60.435	49.093	0.00	0.00
ATOM	2425	CB	LEU	X	157	51.928	62.047	47.569	0.00	0.00
ATOM	2426	HB2	LEU	X	157	51.768	62.047	46.491	0.00	0.00
ATOM	2427	HB3	LEU	X	157	51.601	62.989	48.009	0.00	0.00
ATOM	2428	CG	LEU	X	157	53.439	62.015	47.767	0.00	0.00
ATOM	2429	HG	LEU	X	157	53.695	62.220	48.806	0.00	0.00
ATOM	2430	CD1	LEU	X	157	54.140	60.672	47.425	0.00	0.00
ATOM	2431	HD11	LEU	X	157	55.224	60.748	47.504	0.00	0.00
ATOM	2432	HD12	LEU	X	157	53.884	60.347	46.416	0.00	0.00
ATOM	2433	HD13	LEU	X	157	53.781	59.863	48.061	0.00	0.00
ATOM	2434	CD2	LEU	X	157	54.114	63.085	46.828	0.00	0.00
ATOM	2435	HD21	LEU	X	157	53.541	64.006	46.940	0.00	0.00
ATOM	2436	HD22	LEU	X	157	55.130	63.319	47.144	0.00	0.00
ATOM	2437	HD23	LEU	X	157	54.195	62.770	45.788	0.00	0.00
ATOM	2438	C	LEU	X	157	49.768	61.310	48.933	0.00	0.00
ATOM	2439	O	LEU	X	157	49.234	62.355	48.499	0.00	0.00
ATOM	2440	N	PRO	X	158	49.357	60.616	50.023	0.00	0.00
ATOM	2441	CD	PRO	X	158	49.926	59.414	50.638	0.00	0.00
ATOM	2442	HD2	PRO	X	158	50.751	59.602	51.325	0.00	0.00
ATOM	2443	HD3	PRO	X	158	50.246	58.653	49.925	0.00	0.00
ATOM	2444	CG	PRO	X	158	48.707	58.842	51.343	0.00	0.00
ATOM	2445	HG2	PRO	X	158	49.038	58.116	52.085	0.00	0.00
ATOM	2446	HG3	PRO	X	158	48.024	58.366	50.639	0.00	0.00
ATOM	2447	CB	PRO	X	158	48.102	60.124	52.043	0.00	0.00
ATOM	2448	HB2	PRO	X	158	48.640	60.439	52.937	0.00	0.00
ATOM	2449	HB3	PRO	X	158	47.051	59.900	52.228	0.00	0.00
ATOM	2450	CA	PRO	X	158	48.282	61.125	50.921	0.00	0.00
ATOM	2451	HA	PRO	X	158	47.433	61.091	50.238	0.00	0.00
ATOM	2452	C	PRO	X	158	48.571	62.512	51.425	0.00	0.00
ATOM	2453	O	PRO	X	158	49.658	62.711	51.927	0.00	0.00
ATOM	2454	N	GLY	X	159	47.627	63.456	51.263	0.00	0.00
ATOM	2455	H	GLY	X	159	46.725	63.126	50.950	0.00	0.00
ATOM	2456	CA	GLY	X	159	47.933	64.848	51.472	0.00	0.00
ATOM	2457	HA2	GLY	X	159	47.162	65.450	51.953	0.00	0.00
ATOM	2458	HA3	GLY	X	159	48.816	64.908	52.109	0.00	0.00
ATOM	2459	C	GLY	X	159	48.285	65.654	50.174	0.00	0.00
ATOM	2460	O	GLY	X	159	48.172	66.871	50.182	0.00	0.00
ATOM	2461	N	SER	X	160	48.508	65.004	49.036	0.00	0.00
ATOM	2462	H	SER	X	160	48.663	64.007	49.047	0.00	0.00
ATOM	2463	CA	SER	X	160	48.568	65.697	47.723	0.00	0.00
ATOM	2464	HA	SER	X	160	48.755	66.755	47.908	0.00	0.00
ATOM	2465	CB	SER	X	160	49.641	65.056	46.840	0.00	0.00
ATOM	2466	HB2	SER	X	160	49.980	65.774	46.093	0.00	0.00
ATOM	2467	HB3	SER	X	160	50.531	64.904	47.450	0.00	0.00
ATOM	2468	OG	SER	X	160	49.256	63.813	46.238	0.00	0.00
ATOM	2469	HG	SER	X	160	49.335	63.133	46.911	0.00	0.00
ATOM	2470	C	SER	X	160	47.163	65.653	46.989	0.00	0.00
ATOM	2471	O	SER	X	160	46.347	64.738	47.202	0.00	0.00
ATOM	2472	N	ARG	X	161	46.902	66.671	46.136	0.00	0.00
ATOM	2473	H	ARG	X	161	47.578	67.412	46.015	0.00	0.00
ATOM	2474	CA	ARG	X	161	45.894	66.613	45.158	0.00	0.00
ATOM	2475	HA	ARG	X	161	45.085	65.970	45.505	0.00	0.00
ATOM	2476	CB	ARG	X	161	45.313	68.015	44.890	0.00	0.00

ATOM	2477	HB2	ARG	X	161	46.125	68.686	44.608	0.00	0.00
ATOM	2478	HB3	ARG	X	161	44.664	67.901	44.022	0.00	0.00
ATOM	2479	CG	ARG	X	161	44.455	68.541	46.068	0.00	0.00
ATOM	2480	HG2	ARG	X	161	43.617	67.874	46.271	0.00	0.00
ATOM	2481	HG3	ARG	X	161	45.012	68.602	47.003	0.00	0.00
ATOM	2482	CD	ARG	X	161	43.767	69.928	45.811	0.00	0.00
ATOM	2483	HD2	ARG	X	161	43.151	69.732	44.933	0.00	0.00
ATOM	2484	HD3	ARG	X	161	43.093	70.059	46.658	0.00	0.00
ATOM	2485	NE	ARG	X	161	44.619	71.021	45.758	0.00	0.00
ATOM	2486	HE	ARG	X	161	45.587	70.775	45.908	0.00	0.00
ATOM	2487	CZ	ARG	X	161	44.301	72.266	45.474	0.00	0.00
ATOM	2488	NH1	ARG	X	161	43.052	72.574	45.254	0.00	0.00
ATOM	2489	HH11	ARG	X	161	42.348	71.854	45.342	0.00	0.00
ATOM	2490	HH12	ARG	X	161	42.847	73.547	45.073	0.00	0.00
ATOM	2491	NH2	ARG	X	161	45.230	73.199	45.262	0.00	0.00
ATOM	2492	HH21	ARG	X	161	46.218	72.998	45.316	0.00	0.00
ATOM	2493	HH22	ARG	X	161	44.923	74.127	45.011	0.00	0.00
ATOM	2494	C	ARG	X	161	46.367	65.991	43.809	0.00	0.00
ATOM	2495	O	ARG	X	161	45.516	65.512	43.039	0.00	0.00
ATOM	2496	N	GLU	X	162	47.623	66.031	43.606	0.00	0.00
ATOM	2497	H	GLU	X	162	48.094	66.400	44.420	0.00	0.00
ATOM	2498	CA	GLU	X	162	48.343	65.631	42.390	0.00	0.00
ATOM	2499	HA	GLU	X	162	47.710	66.017	41.592	0.00	0.00
ATOM	2500	CB	GLU	X	162	49.734	66.386	42.530	0.00	0.00
ATOM	2501	HB2	GLU	X	162	50.237	66.082	43.448	0.00	0.00
ATOM	2502	HB3	GLU	X	162	50.334	66.062	41.679	0.00	0.00
ATOM	2503	CG	GLU	X	162	49.693	67.930	42.611	0.00	0.00
ATOM	2504	HG2	GLU	X	162	50.614	68.324	42.181	0.00	0.00
ATOM	2505	HG3	GLU	X	162	48.953	68.309	41.906	0.00	0.00
ATOM	2506	CD	GLU	X	162	49.430	68.544	43.959	0.00	0.00
ATOM	2507	OE1	GLU	X	162	49.072	67.839	44.958	0.00	0.00
ATOM	2508	OE2	GLU	X	162	49.527	69.824	44.083	0.00	0.00
ATOM	2509	C	GLU	X	162	48.533	64.148	42.136	0.00	0.00
ATOM	2510	O	GLU	X	162	48.515	63.679	40.993	0.00	0.00
ATOM	2511	N	ALA	X	163	48.593	63.318	43.233	0.00	0.00
ATOM	2512	H	ALA	X	163	48.599	63.642	44.189	0.00	0.00
ATOM	2513	CA	ALA	X	163	48.742	61.852	43.143	0.00	0.00
ATOM	2514	HA	ALA	X	163	48.120	61.506	42.317	0.00	0.00
ATOM	2515	CB	ALA	X	163	50.204	61.405	42.951	0.00	0.00
ATOM	2516	HB1	ALA	X	163	50.888	61.841	43.679	0.00	0.00
ATOM	2517	HB2	ALA	X	163	50.566	61.775	41.992	0.00	0.00
ATOM	2518	HB3	ALA	X	163	50.341	60.325	42.999	0.00	0.00
ATOM	2519	C	ALA	X	163	48.307	61.314	44.525	0.00	0.00
ATOM	2520	O	ALA	X	163	49.126	60.706	45.290	0.00	0.00
ATOM	2521	N	PRO	X	164	47.050	61.441	44.940	0.00	0.00
ATOM	2522	CD	PRO	X	164	45.942	61.963	44.173	0.00	0.00
ATOM	2523	HD2	PRO	X	164	46.034	61.656	43.131	0.00	0.00
ATOM	2524	HD3	PRO	X	164	46.062	63.046	44.163	0.00	0.00
ATOM	2525	CG	PRO	X	164	44.657	61.476	44.836	0.00	0.00
ATOM	2526	HG2	PRO	X	164	44.387	60.500	44.432	0.00	0.00
ATOM	2527	HG3	PRO	X	164	43.880	62.154	44.483	0.00	0.00
ATOM	2528	CB	PRO	X	164	45.114	61.429	46.311	0.00	0.00
ATOM	2529	HB2	PRO	X	164	44.434	60.759	46.838	0.00	0.00
ATOM	2530	HB3	PRO	X	164	45.072	62.440	46.716	0.00	0.00
ATOM	2531	CA	PRO	X	164	46.592	60.970	46.238	0.00	0.00
ATOM	2532	HA	PRO	X	164	47.104	61.495	47.044	0.00	0.00
ATOM	2533	C	PRO	X	164	46.737	59.516	46.606	0.00	0.00
ATOM	2534	O	PRO	X	164	46.921	59.190	47.742	0.00	0.00
ATOM	2535	N	GLY	X	165	46.645	58.657	45.567	0.00	0.00
ATOM	2536	H	GLY	X	165	46.363	59.096	44.702	0.00	0.00
ATOM	2537	CA	GLY	X	165	46.482	57.168	45.576	0.00	0.00
ATOM	2538	HA2	GLY	X	165	47.141	56.748	44.816	0.00	0.00
ATOM	2539	HA3	GLY	X	165	46.706	56.765	46.563	0.00	0.00
ATOM	2540	C	GLY	X	165	45.068	56.702	45.185	0.00	0.00
ATOM	2541	O	GLY	X	165	44.241	57.492	44.698	0.00	0.00
ATOM	2542	N	ASN	X	166	44.906	55.388	45.247	0.00	0.00
ATOM	2543	H	ASN	X	166	45.740	54.903	45.546	0.00	0.00

ATOM	2544	CA	ASN	X	166	43.621	54.644	45.099	0.00	0.00
ATOM	2545	HA	ASN	X	166	43.920	53.598	45.168	0.00	0.00
ATOM	2546	CB	ASN	X	166	42.719	55.020	46.312	0.00	0.00
ATOM	2547	HB2	ASN	X	166	42.529	56.091	46.380	0.00	0.00
ATOM	2548	HB3	ASN	X	166	41.806	54.454	46.124	0.00	0.00
ATOM	2549	CG	ASN	X	166	43.305	54.401	47.584	0.00	0.00
ATOM	2550	OD1	ASN	X	166	44.117	53.485	47.561	0.00	0.00
ATOM	2551	ND2	ASN	X	166	42.897	54.883	48.718	0.00	0.00
ATOM	2552	HD21	ASN	X	166	43.214	54.438	49.567	0.00	0.00
ATOM	2553	HD22	ASN	X	166	42.183	55.591	48.813	0.00	0.00
ATOM	2554	C	ASN	X	166	42.930	54.810	43.746	0.00	0.00
ATOM	2555	O	ASN	X	166	41.826	54.267	43.608	0.00	0.00
ATOM	2556	N	VAL	X	167	43.436	55.544	42.738	0.00	0.00
ATOM	2557	H	VAL	X	167	44.375	55.911	42.806	0.00	0.00
ATOM	2558	CA	VAL	X	167	42.659	55.867	41.521	0.00	0.00
ATOM	2559	HA	VAL	X	167	41.703	56.255	41.870	0.00	0.00
ATOM	2560	CB	VAL	X	167	43.382	57.004	40.722	0.00	0.00
ATOM	2561	HB	VAL	X	167	42.647	57.336	39.989	0.00	0.00
ATOM	2562	CG1	VAL	X	167	43.704	58.183	41.572	0.00	0.00
ATOM	2563	HG11	VAL	X	167	44.576	58.070	42.215	0.00	0.00
ATOM	2564	HG12	VAL	X	167	43.994	59.016	40.932	0.00	0.00
ATOM	2565	HG13	VAL	X	167	42.818	58.515	42.115	0.00	0.00
ATOM	2566	CG2	VAL	X	167	44.681	56.617	39.905	0.00	0.00
ATOM	2567	HG21	VAL	X	167	45.006	57.445	39.275	0.00	0.00
ATOM	2568	HG22	VAL	X	167	44.555	55.699	39.330	0.00	0.00
ATOM	2569	HG23	VAL	X	167	45.494	56.370	40.589	0.00	0.00
ATOM	2570	C	VAL	X	167	42.369	54.688	40.630	0.00	0.00
ATOM	2571	O	VAL	X	167	41.480	54.853	39.791	0.00	0.00
ATOM	2572	N	GLY	X	168	42.979	53.504	40.790	0.00	0.00
ATOM	2573	H	GLY	X	168	43.659	53.443	41.535	0.00	0.00
ATOM	2574	CA	GLY	X	168	42.557	52.258	40.122	0.00	0.00
ATOM	2575	HA2	GLY	X	168	42.417	52.604	39.098	0.00	0.00
ATOM	2576	HA3	GLY	X	168	43.318	51.499	40.309	0.00	0.00
ATOM	2577	C	GLY	X	168	41.190	51.777	40.627	0.00	0.00
ATOM	2578	O	GLY	X	168	40.447	51.182	39.866	0.00	0.00
ATOM	2579	N	LEU	X	169	40.850	52.119	41.860	0.00	0.00
ATOM	2580	H	LEU	X	169	41.566	52.589	42.394	0.00	0.00
ATOM	2581	CA	LEU	X	169	39.528	51.814	42.457	0.00	0.00
ATOM	2582	HA	LEU	X	169	39.206	50.857	42.047	0.00	0.00
ATOM	2583	CB	LEU	X	169	39.596	51.770	44.002	0.00	0.00
ATOM	2584	HB2	LEU	X	169	39.820	52.728	44.471	0.00	0.00
ATOM	2585	HB3	LEU	X	169	38.578	51.580	44.343	0.00	0.00
ATOM	2586	CG	LEU	X	169	40.556	50.723	44.585	0.00	0.00
ATOM	2587	HG	LEU	X	169	41.578	50.987	44.315	0.00	0.00
ATOM	2588	CD1	LEU	X	169	40.628	50.914	46.149	0.00	0.00
ATOM	2589	HD11	LEU	X	169	40.722	51.960	46.439	0.00	0.00
ATOM	2590	HD12	LEU	X	169	41.390	50.310	46.642	0.00	0.00
ATOM	2591	HD13	LEU	X	169	39.673	50.614	46.580	0.00	0.00
ATOM	2592	CD2	LEU	X	169	40.199	49.322	44.168	0.00	0.00
ATOM	2593	HD21	LEU	X	169	40.831	48.575	44.649	0.00	0.00
ATOM	2594	HD22	LEU	X	169	39.150	49.109	44.373	0.00	0.00
ATOM	2595	HD23	LEU	X	169	40.334	49.249	43.089	0.00	0.00
ATOM	2596	C	LEU	X	169	38.438	52.844	42.063	0.00	0.00
ATOM	2597	O	LEU	X	169	37.238	52.605	42.140	0.00	0.00
ATOM	2598	N	LEU	X	170	38.875	54.025	41.646	0.00	0.00
ATOM	2599	H	LEU	X	170	39.867	54.185	41.544	0.00	0.00
ATOM	2600	CA	LEU	X	170	38.039	55.123	41.108	0.00	0.00
ATOM	2601	HA	LEU	X	170	37.100	55.065	41.658	0.00	0.00
ATOM	2602	CB	LEU	X	170	38.744	56.500	41.322	0.00	0.00
ATOM	2603	HB2	LEU	X	170	39.745	56.459	40.893	0.00	0.00
ATOM	2604	HB3	LEU	X	170	38.206	57.305	40.821	0.00	0.00
ATOM	2605	CG	LEU	X	170	38.896	56.881	42.810	0.00	0.00
ATOM	2606	HG	LEU	X	170	39.503	56.131	43.317	0.00	0.00
ATOM	2607	CD1	LEU	X	170	39.614	58.162	42.832	0.00	0.00
ATOM	2608	HD11	LEU	X	170	39.822	58.485	43.853	0.00	0.00
ATOM	2609	HD12	LEU	X	170	38.980	58.971	42.469	0.00	0.00
ATOM	2610	HD13	LEU	X	170	40.519	58.152	42.225	0.00	0.00

ATOM	2611	CD2	LEU	X	170	37.529	57.079	43.501	0.00	0.00
ATOM	2612	HD21	LEU	X	170	36.953	56.154	43.473	0.00	0.00
ATOM	2613	HD22	LEU	X	170	37.685	57.328	44.551	0.00	0.00
ATOM	2614	HD23	LEU	X	170	37.012	57.894	42.994	0.00	0.00
ATOM	2615	C	LEU	X	170	37.749	54.845	39.645	0.00	0.00
ATOM	2616	O	LEU	X	170	36.666	55.094	39.114	0.00	0.00
ATOM	2617	N	ASP	X	171	38.691	54.232	38.902	0.00	0.00
ATOM	2618	H	ASP	X	171	39.628	54.150	39.269	0.00	0.00
ATOM	2619	CA	ASP	X	171	38.529	53.723	37.517	0.00	0.00
ATOM	2620	HA	ASP	X	171	38.245	54.512	36.821	0.00	0.00
ATOM	2621	CB	ASP	X	171	39.806	53.211	36.949	0.00	0.00
ATOM	2622	HB2	ASP	X	171	40.110	52.305	37.473	0.00	0.00
ATOM	2623	HB3	ASP	X	171	39.602	52.847	35.942	0.00	0.00
ATOM	2624	CG	ASP	X	171	41.007	54.183	36.867	0.00	0.00
ATOM	2625	OD1	ASP	X	171	40.752	55.414	36.805	0.00	0.00
ATOM	2626	OD2	ASP	X	171	42.147	53.655	36.717	0.00	0.00
ATOM	2627	C	ASP	X	171	37.401	52.713	37.430	0.00	0.00
ATOM	2628	O	ASP	X	171	36.477	52.885	36.702	0.00	0.00
ATOM	2629	N	GLN	X	172	37.457	51.642	38.292	0.00	0.00
ATOM	2630	H	GLN	X	172	38.242	51.692	38.925	0.00	0.00
ATOM	2631	CA	GLN	X	172	36.413	50.671	38.694	0.00	0.00
ATOM	2632	HA	GLN	X	172	36.298	50.013	37.833	0.00	0.00
ATOM	2633	CB	GLN	X	172	36.862	49.766	39.893	0.00	0.00
ATOM	2634	HB2	GLN	X	172	37.150	50.453	40.688	0.00	0.00
ATOM	2635	HB3	GLN	X	172	36.051	49.109	40.209	0.00	0.00
ATOM	2636	CG	GLN	X	172	38.079	48.947	39.492	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.859	48.183	38.746	0.00	0.00
ATOM	2638	HG3	GLN	X	172	38.955	49.425	39.054	0.00	0.00
ATOM	2639	CD	GLN	X	172	38.611	48.117	40.626	0.00	0.00
ATOM	2640	OE1	GLN	X	172	38.144	48.228	41.786	0.00	0.00
ATOM	2641	NE2	GLN	X	172	39.708	47.344	40.480	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.968	46.839	41.315	0.00	0.00
ATOM	2643	HE22	GLN	X	172	40.179	47.152	39.607	0.00	0.00
ATOM	2644	C	GLN	X	172	35.063	51.295	39.048	0.00	0.00
ATOM	2645	O	GLN	X	172	34.060	51.007	38.423	0.00	0.00
ATOM	2646	N	ARG	X	173	35.030	52.235	39.951	0.00	0.00
ATOM	2647	H	ARG	X	173	35.937	52.536	40.278	0.00	0.00
ATOM	2648	CA	ARG	X	173	33.866	53.014	40.445	0.00	0.00
ATOM	2649	HA	ARG	X	173	33.078	52.310	40.711	0.00	0.00
ATOM	2650	CB	ARG	X	173	34.229	53.893	41.662	0.00	0.00
ATOM	2651	HB2	ARG	X	173	34.657	53.305	42.474	0.00	0.00
ATOM	2652	HB3	ARG	X	173	34.865	54.683	41.261	0.00	0.00
ATOM	2653	CG	ARG	X	173	32.917	54.649	42.101	0.00	0.00
ATOM	2654	HG2	ARG	X	173	32.515	55.403	41.424	0.00	0.00
ATOM	2655	HG3	ARG	X	173	32.126	53.905	42.193	0.00	0.00
ATOM	2656	CD	ARG	X	173	33.128	55.418	43.349	0.00	0.00
ATOM	2657	HD2	ARG	X	173	34.040	56.005	43.243	0.00	0.00
ATOM	2658	HD3	ARG	X	173	32.315	56.114	43.555	0.00	0.00
ATOM	2659	NE	ARG	X	173	33.373	54.498	44.473	0.00	0.00
ATOM	2660	HE	ARG	X	173	32.713	53.734	44.519	0.00	0.00
ATOM	2661	CZ	ARG	X	173	34.085	54.702	45.566	0.00	0.00
ATOM	2662	NH1	ARG	X	173	34.566	55.882	45.891	0.00	0.00
ATOM	2663	HH11	ARG	X	173	34.393	56.704	45.330	0.00	0.00
ATOM	2664	HH12	ARG	X	173	35.156	55.981	46.704	0.00	0.00
ATOM	2665	NH2	ARG	X	173	34.043	53.761	46.502	0.00	0.00
ATOM	2666	HH21	ARG	X	173	33.616	52.883	46.242	0.00	0.00
ATOM	2667	HH22	ARG	X	173	34.360	53.968	47.438	0.00	0.00
ATOM	2668	C	ARG	X	173	33.239	53.733	39.222	0.00	0.00
ATOM	2669	O	ARG	X	173	32.061	53.899	39.253	0.00	0.00
ATOM	2670	N	LEU	X	174	34.053	54.275	38.302	0.00	0.00
ATOM	2671	H	LEU	X	174	35.050	54.245	38.463	0.00	0.00
ATOM	2672	CA	LEU	X	174	33.595	55.080	37.189	0.00	0.00
ATOM	2673	HA	LEU	X	174	32.843	55.695	37.683	0.00	0.00
ATOM	2674	CB	LEU	X	174	34.712	56.008	36.657	0.00	0.00
ATOM	2675	HB2	LEU	X	174	35.017	56.706	37.436	0.00	0.00
ATOM	2676	HB3	LEU	X	174	35.638	55.479	36.429	0.00	0.00
ATOM	2677	CG	LEU	X	174	34.316	56.966	35.466	0.00	0.00

ATOM	2678	HG	LEU	X	174	33.911	56.412	34.619	0.00	0.00
ATOM	2679	CD1	LEU	X	174	33.149	57.948	35.774	0.00	0.00
ATOM	2680	HD11	LEU	X	174	33.421	58.448	36.704	0.00	0.00
ATOM	2681	HD12	LEU	X	174	32.200	57.418	35.695	0.00	0.00
ATOM	2682	HD13	LEU	X	174	33.071	58.684	34.974	0.00	0.00
ATOM	2683	CD2	LEU	X	174	35.501	57.771	34.920	0.00	0.00
ATOM	2684	HD21	LEU	X	174	35.189	58.133	33.941	0.00	0.00
ATOM	2685	HD22	LEU	X	174	35.796	58.569	35.603	0.00	0.00
ATOM	2686	HD23	LEU	X	174	36.288	57.029	34.787	0.00	0.00
ATOM	2687	C	LEU	X	174	32.967	54.161	36.108	0.00	0.00
ATOM	2688	O	LEU	X	174	31.891	54.450	35.559	0.00	0.00
ATOM	2689	N	ALA	X	175	33.495	52.935	35.863	0.00	0.00
ATOM	2690	H	ALA	X	175	34.328	52.680	36.375	0.00	0.00
ATOM	2691	CA	ALA	X	175	32.828	51.891	35.106	0.00	0.00
ATOM	2692	HA	ALA	X	175	32.625	52.275	34.106	0.00	0.00
ATOM	2693	CB	ALA	X	175	33.825	50.724	34.836	0.00	0.00
ATOM	2694	HB1	ALA	X	175	34.757	51.096	34.412	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.287	49.926	34.322	0.00	0.00
ATOM	2696	HB3	ALA	X	175	34.131	50.236	35.761	0.00	0.00
ATOM	2697	C	ALA	X	175	31.484	51.413	35.736	0.00	0.00
ATOM	2698	O	ALA	X	175	30.480	51.211	35.063	0.00	0.00
ATOM	2699	N	LEU	X	176	31.379	51.349	37.081	0.00	0.00
ATOM	2700	H	LEU	X	176	32.242	51.443	37.597	0.00	0.00
ATOM	2701	CA	LEU	X	176	30.148	51.092	37.828	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.715	50.202	37.372	0.00	0.00
ATOM	2703	CB	LEU	X	176	30.503	50.728	39.264	0.00	0.00
ATOM	2704	HB2	LEU	X	176	31.066	51.526	39.748	0.00	0.00
ATOM	2705	HB3	LEU	X	176	29.605	50.614	39.871	0.00	0.00
ATOM	2706	CG	LEU	X	176	31.251	49.387	39.508	0.00	0.00
ATOM	2707	HG	LEU	X	176	32.164	49.382	38.913	0.00	0.00
ATOM	2708	CD1	LEU	X	176	31.599	49.288	40.976	0.00	0.00
ATOM	2709	HD11	LEU	X	176	30.678	49.269	41.559	0.00	0.00
ATOM	2710	HD12	LEU	X	176	32.126	50.133	41.418	0.00	0.00
ATOM	2711	HD13	LEU	X	176	32.049	48.320	41.200	0.00	0.00
ATOM	2712	CD2	LEU	X	176	30.435	48.157	39.097	0.00	0.00
ATOM	2713	HD21	LEU	X	176	30.121	48.204	38.055	0.00	0.00
ATOM	2714	HD22	LEU	X	176	31.037	47.249	39.150	0.00	0.00
ATOM	2715	HD23	LEU	X	176	29.492	48.116	39.641	0.00	0.00
ATOM	2716	C	LEU	X	176	29.103	52.242	37.655	0.00	0.00
ATOM	2717	O	LEU	X	176	27.921	52.099	37.396	0.00	0.00
ATOM	2718	N	GLN	X	177	29.565	53.542	37.716	0.00	0.00
ATOM	2719	H	GLN	X	177	30.546	53.657	37.929	0.00	0.00
ATOM	2720	CA	GLN	X	177	28.719	54.726	37.366	0.00	0.00
ATOM	2721	HA	GLN	X	177	27.842	54.831	38.006	0.00	0.00
ATOM	2722	CB	GLN	X	177	29.489	56.027	37.542	0.00	0.00
ATOM	2723	HB2	GLN	X	177	30.419	56.086	36.977	0.00	0.00
ATOM	2724	HB3	GLN	X	177	28.847	56.754	37.044	0.00	0.00
ATOM	2725	CG	GLN	X	177	29.667	56.433	38.991	0.00	0.00
ATOM	2726	HG2	GLN	X	177	28.711	56.524	39.507	0.00	0.00
ATOM	2727	HG3	GLN	X	177	30.196	55.625	39.497	0.00	0.00
ATOM	2728	CD	GLN	X	177	30.386	57.780	39.039	0.00	0.00
ATOM	2729	OE1	GLN	X	177	31.350	57.927	39.788	0.00	0.00
ATOM	2730	NE2	GLN	X	177	29.893	58.780	38.311	0.00	0.00
ATOM	2731	HE21	GLN	X	177	30.364	59.672	38.261	0.00	0.00
ATOM	2732	HE22	GLN	X	177	29.095	58.608	37.716	0.00	0.00
ATOM	2733	C	GLN	X	177	28.277	54.639	35.875	0.00	0.00
ATOM	2734	O	GLN	X	177	27.086	54.957	35.600	0.00	0.00
ATOM	2735	N	TRP	X	178	29.127	54.232	34.959	0.00	0.00
ATOM	2736	H	TRP	X	178	30.084	54.034	35.213	0.00	0.00
ATOM	2737	CA	TRP	X	178	28.767	53.961	33.614	0.00	0.00
ATOM	2738	HA	TRP	X	178	28.361	54.901	33.237	0.00	0.00
ATOM	2739	CB	TRP	X	178	30.060	53.677	32.832	0.00	0.00
ATOM	2740	HB2	TRP	X	178	30.784	54.446	33.098	0.00	0.00
ATOM	2741	HB3	TRP	X	178	30.499	52.772	33.252	0.00	0.00
ATOM	2742	CG	TRP	X	178	29.862	53.618	31.260	0.00	0.00
ATOM	2743	CD1	TRP	X	178	30.192	54.619	30.388	0.00	0.00
ATOM	2744	HD1	TRP	X	178	30.628	55.580	30.622	0.00	0.00

ATOM	2745	NE1	TRP	X	178	30.053	54.180	29.130	0.00	0.00
ATOM	2746	HE1	TRP	X	178	30.098	54.827	28.356	0.00	0.00
ATOM	2747	CE2	TRP	X	178	29.441	52.918	29.101	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	29.109	52.008	28.054	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	29.144	52.321	27.021	0.00	0.00
ATOM	2750	CH2	TRP	X	178	28.818	50.644	28.345	0.00	0.00
ATOM	2751	HH2	TRP	X	178	28.659	49.930	27.551	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	28.742	50.244	29.680	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	28.355	49.270	29.938	0.00	0.00
ATOM	2754	CE3	TRP	X	178	29.122	51.114	30.680	0.00	0.00
ATOM	2755	HE3	TRP	X	178	29.149	50.851	31.727	0.00	0.00
ATOM	2756	CD2	TRP	X	178	29.448	52.452	30.452	0.00	0.00
ATOM	2757	C	TRP	X	178	27.752	52.895	33.431	0.00	0.00
ATOM	2758	O	TRP	X	178	26.713	53.093	32.738	0.00	0.00
ATOM	2759	N	VAL	X	179	27.905	51.750	34.095	0.00	0.00
ATOM	2760	H	VAL	X	179	28.833	51.570	34.451	0.00	0.00
ATOM	2761	CA	VAL	X	179	26.898	50.682	34.137	0.00	0.00
ATOM	2762	HA	VAL	X	179	26.762	50.307	33.123	0.00	0.00
ATOM	2763	CB	VAL	X	179	27.499	49.550	34.980	0.00	0.00
ATOM	2764	HB	VAL	X	179	28.037	49.923	35.851	0.00	0.00
ATOM	2765	CG1	VAL	X	179	26.439	48.583	35.543	0.00	0.00
ATOM	2766	HG11	VAL	X	179	25.891	48.073	34.751	0.00	0.00
ATOM	2767	HG12	VAL	X	179	26.944	47.859	36.181	0.00	0.00
ATOM	2768	HG13	VAL	X	179	25.750	49.061	36.240	0.00	0.00
ATOM	2769	CG2	VAL	X	179	28.526	48.691	34.228	0.00	0.00
ATOM	2770	HG21	VAL	X	179	29.047	47.954	34.840	0.00	0.00
ATOM	2771	HG22	VAL	X	179	29.221	49.348	33.705	0.00	0.00
ATOM	2772	HG23	VAL	X	179	27.996	48.203	33.410	0.00	0.00
ATOM	2773	C	VAL	X	179	25.572	51.160	34.734	0.00	0.00
ATOM	2774	O	VAL	X	179	24.498	50.994	34.079	0.00	0.00
ATOM	2775	N	GLN	X	180	25.601	51.949	35.823	0.00	0.00
ATOM	2776	H	GLN	X	180	26.485	52.287	36.175	0.00	0.00
ATOM	2777	CA	GLN	X	180	24.399	52.497	36.464	0.00	0.00
ATOM	2778	HA	GLN	X	180	23.754	51.619	36.491	0.00	0.00
ATOM	2779	CB	GLN	X	180	24.748	53.060	37.881	0.00	0.00
ATOM	2780	HB2	GLN	X	180	25.630	53.700	37.830	0.00	0.00
ATOM	2781	HB3	GLN	X	180	23.980	53.742	38.247	0.00	0.00
ATOM	2782	CG	GLN	X	180	24.812	51.828	38.941	0.00	0.00
ATOM	2783	HG2	GLN	X	180	25.562	51.141	38.547	0.00	0.00
ATOM	2784	HG3	GLN	X	180	25.046	52.232	39.926	0.00	0.00
ATOM	2785	CD	GLN	X	180	23.517	51.119	39.146	0.00	0.00
ATOM	2786	OE1	GLN	X	180	22.442	51.599	38.799	0.00	0.00
ATOM	2787	NE2	GLN	X	180	23.576	49.879	39.653	0.00	0.00
ATOM	2788	HE21	GLN	X	180	22.681	49.432	39.512	0.00	0.00
ATOM	2789	HE22	GLN	X	180	24.460	49.429	39.841	0.00	0.00
ATOM	2790	C	GLN	X	180	23.606	53.592	35.656	0.00	0.00
ATOM	2791	O	GLN	X	180	22.516	53.882	36.062	0.00	0.00
ATOM	2792	N	GLU	X	181	24.090	54.077	34.492	0.00	0.00
ATOM	2793	H	GLU	X	181	25.068	53.884	34.329	0.00	0.00
ATOM	2794	CA	GLU	X	181	23.289	54.846	33.577	0.00	0.00
ATOM	2795	HA	GLU	X	181	22.297	54.897	34.026	0.00	0.00
ATOM	2796	CB	GLU	X	181	23.688	56.340	33.517	0.00	0.00
ATOM	2797	HB2	GLU	X	181	22.983	56.775	32.809	0.00	0.00
ATOM	2798	HB3	GLU	X	181	23.638	56.786	34.511	0.00	0.00
ATOM	2799	CG	GLU	X	181	25.121	56.498	32.969	0.00	0.00
ATOM	2800	HG2	GLU	X	181	25.760	56.695	33.830	0.00	0.00
ATOM	2801	HG3	GLU	X	181	25.549	55.623	32.480	0.00	0.00
ATOM	2802	CD	GLU	X	181	25.302	57.723	32.010	0.00	0.00
ATOM	2803	OE1	GLU	X	181	24.385	58.599	31.976	0.00	0.00
ATOM	2804	OE2	GLU	X	181	26.387	57.735	31.291	0.00	0.00
ATOM	2805	C	GLU	X	181	22.947	54.192	32.241	0.00	0.00
ATOM	2806	O	GLU	X	181	21.925	54.488	31.638	0.00	0.00
ATOM	2807	N	ASN	X	182	23.865	53.324	31.730	0.00	0.00
ATOM	2808	H	ASN	X	182	24.762	53.204	32.177	0.00	0.00
ATOM	2809	CA	ASN	X	182	23.812	52.764	30.367	0.00	0.00
ATOM	2810	HA	ASN	X	182	23.154	53.385	29.759	0.00	0.00
ATOM	2811	CB	ASN	X	182	25.256	52.916	29.738	0.00	0.00

ATOM	2812	HB2	ASN	X	182	26.098	52.465	30.262	0.00	0.00
ATOM	2813	HB3	ASN	X	182	25.249	52.392	28.783	0.00	0.00
ATOM	2814	CG	ASN	X	182	25.557	54.431	29.495	0.00	0.00
ATOM	2815	OD1	ASN	X	182	24.904	55.143	28.795	0.00	0.00
ATOM	2816	ND2	ASN	X	182	26.595	54.985	30.115	0.00	0.00
ATOM	2817	HD21	ASN	X	182	26.820	55.948	29.910	0.00	0.00
ATOM	2818	HD22	ASN	X	182	26.995	54.470	30.886	0.00	0.00
ATOM	2819	C	ASN	X	182	23.373	51.301	30.232	0.00	0.00
ATOM	2820	O	ASN	X	182	22.934	50.922	29.139	0.00	0.00
ATOM	2821	N	VAL	X	183	23.513	50.472	31.286	0.00	0.00
ATOM	2822	H	VAL	X	183	23.729	50.863	32.192	0.00	0.00
ATOM	2823	CA	VAL	X	183	23.453	48.951	31.064	0.00	0.00
ATOM	2824	HA	VAL	X	183	24.151	48.692	30.268	0.00	0.00
ATOM	2825	CB	VAL	X	183	23.901	48.165	32.292	0.00	0.00
ATOM	2826	HB	VAL	X	183	24.775	48.646	32.732	0.00	0.00
ATOM	2827	CG1	VAL	X	183	22.828	48.163	33.410	0.00	0.00
ATOM	2828	HG11	VAL	X	183	23.383	47.877	34.304	0.00	0.00
ATOM	2829	HG12	VAL	X	183	22.509	49.178	33.646	0.00	0.00
ATOM	2830	HG13	VAL	X	183	22.020	47.492	33.119	0.00	0.00
ATOM	2831	CG2	VAL	X	183	24.420	46.729	31.989	0.00	0.00
ATOM	2832	HG21	VAL	X	183	25.258	46.816	31.297	0.00	0.00
ATOM	2833	HG22	VAL	X	183	23.544	46.200	31.613	0.00	0.00
ATOM	2834	HG23	VAL	X	183	24.854	46.260	32.872	0.00	0.00
ATOM	2835	C	VAL	X	183	22.120	48.484	30.565	0.00	0.00
ATOM	2836	O	VAL	X	183	21.986	47.445	29.838	0.00	0.00
ATOM	2837	N	ALA	X	184	21.101	49.298	30.822	0.00	0.00
ATOM	2838	H	ALA	X	184	21.273	50.076	31.443	0.00	0.00
ATOM	2839	CA	ALA	X	184	19.766	49.052	30.323	0.00	0.00
ATOM	2840	HA	ALA	X	184	19.472	48.023	30.530	0.00	0.00
ATOM	2841	CB	ALA	X	184	18.865	50.058	30.981	0.00	0.00
ATOM	2842	HB1	ALA	X	184	17.868	50.017	30.544	0.00	0.00
ATOM	2843	HB2	ALA	X	184	19.091	51.100	30.755	0.00	0.00
ATOM	2844	HB3	ALA	X	184	18.733	49.951	32.057	0.00	0.00
ATOM	2845	C	ALA	X	184	19.623	49.011	28.788	0.00	0.00
ATOM	2846	O	ALA	X	184	18.834	48.260	28.205	0.00	0.00
ATOM	2847	N	ALA	X	185	20.518	49.718	28.036	0.00	0.00
ATOM	2848	H	ALA	X	185	21.185	50.301	28.521	0.00	0.00
ATOM	2849	CA	ALA	X	185	20.552	49.578	26.566	0.00	0.00
ATOM	2850	HA	ALA	X	185	19.568	49.900	26.225	0.00	0.00
ATOM	2851	CB	ALA	X	185	21.495	50.700	26.092	0.00	0.00
ATOM	2852	HB1	ALA	X	185	21.272	51.656	26.567	0.00	0.00
ATOM	2853	HB2	ALA	X	185	21.443	50.896	25.021	0.00	0.00
ATOM	2854	HB3	ALA	X	185	22.527	50.491	26.371	0.00	0.00
ATOM	2855	C	ALA	X	185	20.945	48.207	26.069	0.00	0.00
ATOM	2856	O	ALA	X	185	20.413	47.914	25.001	0.00	0.00
ATOM	2857	N	PHE	X	186	21.832	47.525	26.800	0.00	0.00
ATOM	2858	H	PHE	X	186	22.162	47.816	27.709	0.00	0.00
ATOM	2859	CA	PHE	X	186	22.182	46.144	26.478	0.00	0.00
ATOM	2860	HA	PHE	X	186	22.152	46.099	25.390	0.00	0.00
ATOM	2861	CB	PHE	X	186	23.612	45.951	27.005	0.00	0.00
ATOM	2862	HB2	PHE	X	186	23.604	46.005	28.093	0.00	0.00
ATOM	2863	HB3	PHE	X	186	23.879	44.921	26.768	0.00	0.00
ATOM	2864	CG	PHE	X	186	24.632	46.937	26.513	0.00	0.00
ATOM	2865	CD1	PHE	X	186	24.812	48.195	27.122	0.00	0.00
ATOM	2866	HD1	PHE	X	186	24.253	48.393	28.025	0.00	0.00
ATOM	2867	CE1	PHE	X	186	25.795	49.071	26.626	0.00	0.00
ATOM	2868	HE1	PHE	X	186	25.977	49.910	27.282	0.00	0.00
ATOM	2869	CZ	PHE	X	186	26.477	48.912	25.439	0.00	0.00
ATOM	2870	HZ	PHE	X	186	27.229	49.569	25.027	0.00	0.00
ATOM	2871	CE2	PHE	X	186	26.255	47.660	24.789	0.00	0.00
ATOM	2872	HE2	PHE	X	186	26.723	47.538	23.823	0.00	0.00
ATOM	2873	CD2	PHE	X	186	25.365	46.673	25.340	0.00	0.00
ATOM	2874	HD2	PHE	X	186	25.293	45.711	24.855	0.00	0.00
ATOM	2875	C	PHE	X	186	21.233	45.035	26.962	0.00	0.00
ATOM	2876	O	PHE	X	186	21.420	43.890	26.672	0.00	0.00
ATOM	2877	N	GLY	X	187	20.174	45.407	27.670	0.00	0.00
ATOM	2878	H	GLY	X	187	20.048	46.409	27.686	0.00	0.00

ATOM	2879	CA	GLY	X	187	19.171	44.552	28.210	0.00	0.00
ATOM	2880	HA2	GLY	X	187	18.182	45.010	28.177	0.00	0.00
ATOM	2881	HA3	GLY	X	187	19.098	43.597	27.689	0.00	0.00
ATOM	2882	C	GLY	X	187	19.454	44.163	29.693	0.00	0.00
ATOM	2883	O	GLY	X	187	18.876	43.174	30.241	0.00	0.00
ATOM	2884	N	GLY	X	188	20.351	44.831	30.399	0.00	0.00
ATOM	2885	H	GLY	X	188	20.841	45.572	29.920	0.00	0.00
ATOM	2886	CA	GLY	X	188	20.727	44.498	31.774	0.00	0.00
ATOM	2887	HA2	GLY	X	188	20.710	43.422	31.943	0.00	0.00
ATOM	2888	HA3	GLY	X	188	21.766	44.822	31.847	0.00	0.00
ATOM	2889	C	GLY	X	188	19.967	45.302	32.831	0.00	0.00
ATOM	2890	O	GLY	X	188	19.529	46.430	32.622	0.00	0.00
ATOM	2891	N	ASP	X	189	19.800	44.674	34.020	0.00	0.00
ATOM	2892	H	ASP	X	189	20.073	43.702	34.005	0.00	0.00
ATOM	2893	CA	ASP	X	189	19.109	45.162	35.193	0.00	0.00
ATOM	2894	HA	ASP	X	189	18.247	45.761	34.899	0.00	0.00
ATOM	2895	CB	ASP	X	189	18.459	44.043	36.022	0.00	0.00
ATOM	2896	HB2	ASP	X	189	17.896	43.486	35.274	0.00	0.00
ATOM	2897	HB3	ASP	X	189	19.219	43.392	36.454	0.00	0.00
ATOM	2898	CG	ASP	X	189	17.512	44.491	37.116	0.00	0.00
ATOM	2899	OD1	ASP	X	189	17.425	45.730	37.312	0.00	0.00
ATOM	2900	OD2	ASP	X	189	16.757	43.648	37.675	0.00	0.00
ATOM	2901	C	ASP	X	189	19.975	46.073	36.108	0.00	0.00
ATOM	2902	O	ASP	X	189	20.666	45.468	36.964	0.00	0.00
ATOM	2903	N	PRO	X	190	19.881	47.393	36.145	0.00	0.00
ATOM	2904	CD	PRO	X	190	19.054	48.209	35.259	0.00	0.00
ATOM	2905	HD2	PRO	X	190	18.017	47.870	35.249	0.00	0.00
ATOM	2906	HD3	PRO	X	190	19.498	48.087	34.271	0.00	0.00
ATOM	2907	CG	PRO	X	190	19.123	49.698	35.695	0.00	0.00
ATOM	2908	HG2	PRO	X	190	18.316	49.932	36.390	0.00	0.00
ATOM	2909	HG3	PRO	X	190	19.078	50.429	34.888	0.00	0.00
ATOM	2910	CB	PRO	X	190	20.463	49.670	36.439	0.00	0.00
ATOM	2911	HB2	PRO	X	190	20.505	50.490	37.156	0.00	0.00
ATOM	2912	HB3	PRO	X	190	21.260	49.797	35.707	0.00	0.00
ATOM	2913	CA	PRO	X	190	20.621	48.262	37.080	0.00	0.00
ATOM	2914	HA	PRO	X	190	21.680	48.005	37.071	0.00	0.00
ATOM	2915	C	PRO	X	190	20.168	48.205	38.568	0.00	0.00
ATOM	2916	O	PRO	X	190	20.842	48.582	39.512	0.00	0.00
ATOM	2917	N	THR	X	191	19.069	47.501	38.829	0.00	0.00
ATOM	2918	H	THR	X	191	18.512	47.170	38.055	0.00	0.00
ATOM	2919	CA	THR	X	191	18.608	47.167	40.196	0.00	0.00
ATOM	2920	HA	THR	X	191	19.097	47.871	40.868	0.00	0.00
ATOM	2921	CB	THR	X	191	17.107	47.445	40.319	0.00	0.00
ATOM	2922	HB	THR	X	191	16.833	47.384	41.372	0.00	0.00
ATOM	2923	CG2	THR	X	191	16.764	48.860	39.822	0.00	0.00
ATOM	2924	HG21	THR	X	191	17.369	49.564	40.394	0.00	0.00
ATOM	2925	HG22	THR	X	191	15.722	49.101	40.032	0.00	0.00
ATOM	2926	HG23	THR	X	191	16.884	48.983	38.746	0.00	0.00
ATOM	2927	OG1	THR	X	191	16.283	46.488	39.652	0.00	0.00
ATOM	2928	HG1	THR	X	191	16.766	46.345	38.835	0.00	0.00
ATOM	2929	C	THR	X	191	18.999	45.744	40.558	0.00	0.00
ATOM	2930	O	THR	X	191	18.621	45.224	41.604	0.00	0.00
ATOM	2931	N	SER	X	192	19.754	45.029	39.687	0.00	0.00
ATOM	2932	H	SER	X	192	19.928	45.346	38.744	0.00	0.00
ATOM	2933	CA	SER	X	192	20.227	43.665	40.041	0.00	0.00
ATOM	2934	HA	SER	X	192	20.280	43.672	41.130	0.00	0.00
ATOM	2935	CB	SER	X	192	19.190	42.667	39.614	0.00	0.00
ATOM	2936	HB2	SER	X	192	18.280	43.015	40.101	0.00	0.00
ATOM	2937	HB3	SER	X	192	19.127	42.600	38.528	0.00	0.00
ATOM	2938	OG	SER	X	192	19.536	41.400	40.164	0.00	0.00
ATOM	2939	HG	SER	X	192	20.247	40.932	39.720	0.00	0.00
ATOM	2940	C	SER	X	192	21.624	43.361	39.564	0.00	0.00
ATOM	2941	O	SER	X	192	21.910	42.329	38.932	0.00	0.00
ATOM	2942	N	VAL	X	193	22.483	44.322	39.950	0.00	0.00
ATOM	2943	H	VAL	X	193	22.150	45.004	40.616	0.00	0.00
ATOM	2944	CA	VAL	X	193	23.936	44.283	39.631	0.00	0.00
ATOM	2945	HA	VAL	X	193	24.075	43.774	38.678	0.00	0.00

ATOM	2946	CB	VAL	X	193	24.528	45.726	39.456	0.00	0.00
ATOM	2947	HB	VAL	X	193	24.455	46.287	40.387	0.00	0.00
ATOM	2948	CG1	VAL	X	193	26.079	45.726	39.242	0.00	0.00
ATOM	2949	HG11	VAL	X	193	26.636	45.299	40.075	0.00	0.00
ATOM	2950	HG12	VAL	X	193	26.300	45.116	38.366	0.00	0.00
ATOM	2951	HG13	VAL	X	193	26.411	46.739	39.014	0.00	0.00
ATOM	2952	CG2	VAL	X	193	23.778	46.491	38.363	0.00	0.00
ATOM	2953	HG21	VAL	X	193	23.947	46.045	37.383	0.00	0.00
ATOM	2954	HG22	VAL	X	193	24.238	47.473	38.248	0.00	0.00
ATOM	2955	HG23	VAL	X	193	22.692	46.546	38.425	0.00	0.00
ATOM	2956	C	VAL	X	193	24.755	43.510	40.667	0.00	0.00
ATOM	2957	O	VAL	X	193	24.605	43.733	41.863	0.00	0.00
ATOM	2958	N	THR	X	194	25.606	42.574	40.242	0.00	0.00
ATOM	2959	H	THR	X	194	25.736	42.429	39.251	0.00	0.00
ATOM	2960	CA	THR	X	194	26.465	41.719	41.142	0.00	0.00
ATOM	2961	HA	THR	X	194	26.383	41.973	42.199	0.00	0.00
ATOM	2962	CB	THR	X	194	26.004	40.255	40.960	0.00	0.00
ATOM	2963	HB	THR	X	194	26.095	40.037	39.896	0.00	0.00
ATOM	2964	CG2	THR	X	194	26.835	39.282	41.847	0.00	0.00
ATOM	2965	HG21	THR	X	194	26.601	39.478	42.893	0.00	0.00
ATOM	2966	HG22	THR	X	194	27.895	39.182	41.613	0.00	0.00
ATOM	2967	HG23	THR	X	194	26.441	38.273	41.724	0.00	0.00
ATOM	2968	OG1	THR	X	194	24.654	40.240	41.227	0.00	0.00
ATOM	2969	HG1	THR	X	194	24.118	40.430	40.453	0.00	0.00
ATOM	2970	C	THR	X	194	27.888	41.890	40.746	0.00	0.00
ATOM	2971	O	THR	X	194	28.196	41.761	39.596	0.00	0.00
ATOM	2972	N	LEU	X	195	28.778	42.143	41.709	0.00	0.00
ATOM	2973	H	LEU	X	195	28.446	42.197	42.661	0.00	0.00
ATOM	2974	CA	LEU	X	195	30.251	42.185	41.491	0.00	0.00
ATOM	2975	HA	LEU	X	195	30.492	42.538	40.488	0.00	0.00
ATOM	2976	CB	LEU	X	195	30.850	43.212	42.526	0.00	0.00
ATOM	2977	HB2	LEU	X	195	30.775	42.822	43.541	0.00	0.00
ATOM	2978	HB3	LEU	X	195	31.902	43.257	42.248	0.00	0.00
ATOM	2979	CG	LEU	X	195	30.230	44.604	42.412	0.00	0.00
ATOM	2980	HG	LEU	X	195	29.216	44.723	42.796	0.00	0.00
ATOM	2981	CD1	LEU	X	195	31.026	45.601	43.321	0.00	0.00
ATOM	2982	HD11	LEU	X	195	31.115	45.088	44.279	0.00	0.00
ATOM	2983	HD12	LEU	X	195	30.500	46.544	43.468	0.00	0.00
ATOM	2984	HD13	LEU	X	195	32.023	45.868	42.972	0.00	0.00
ATOM	2985	CD2	LEU	X	195	30.135	45.229	40.992	0.00	0.00
ATOM	2986	HD21	LEU	X	195	29.793	46.251	41.155	0.00	0.00
ATOM	2987	HD22	LEU	X	195	31.094	45.257	40.475	0.00	0.00
ATOM	2988	HD23	LEU	X	195	29.329	44.659	40.531	0.00	0.00
ATOM	2989	C	LEU	X	195	30.808	40.811	41.782	0.00	0.00
ATOM	2990	O	LEU	X	195	30.313	40.108	42.669	0.00	0.00
ATOM	2991	N	PHE	X	196	31.847	40.455	41.065	0.00	0.00
ATOM	2992	H	PHE	X	196	32.047	40.993	40.235	0.00	0.00
ATOM	2993	CA	PHE	X	196	32.629	39.211	41.162	0.00	0.00
ATOM	2994	HA	PHE	X	196	32.645	39.106	42.247	0.00	0.00
ATOM	2995	CB	PHE	X	196	31.966	37.916	40.601	0.00	0.00
ATOM	2996	HB2	PHE	X	196	32.481	37.091	41.093	0.00	0.00
ATOM	2997	HB3	PHE	X	196	30.905	37.862	40.843	0.00	0.00
ATOM	2998	CG	PHE	X	196	32.100	37.632	39.109	0.00	0.00
ATOM	2999	CD1	PHE	X	196	31.642	38.585	38.191	0.00	0.00
ATOM	3000	HD1	PHE	X	196	31.161	39.482	38.551	0.00	0.00
ATOM	3001	CE1	PHE	X	196	31.701	38.395	36.796	0.00	0.00
ATOM	3002	HE1	PHE	X	196	31.434	39.224	36.158	0.00	0.00
ATOM	3003	CZ	PHE	X	196	32.188	37.180	36.316	0.00	0.00
ATOM	3004	HZ	PHE	X	196	32.226	36.953	35.261	0.00	0.00
ATOM	3005	CE2	PHE	X	196	32.559	36.110	37.209	0.00	0.00
ATOM	3006	HE2	PHE	X	196	32.881	35.132	36.883	0.00	0.00
ATOM	3007	CD2	PHE	X	196	32.590	36.365	38.632	0.00	0.00
ATOM	3008	HD2	PHE	X	196	32.894	35.545	39.266	0.00	0.00
ATOM	3009	C	PHE	X	196	34.073	39.471	40.697	0.00	0.00
ATOM	3010	O	PHE	X	196	34.352	40.406	39.909	0.00	0.00
ATOM	3011	N	GLY	X	197	35.048	38.722	41.291	0.00	0.00
ATOM	3012	H	GLY	X	197	34.854	37.917	41.870	0.00	0.00

ATOM	3013	CA	GLY	X	197	36.474	38.888	41.048	0.00	0.00
ATOM	3014	HA2	GLY	X	197	36.693	38.884	39.980	0.00	0.00
ATOM	3015	HA3	GLY	X	197	36.783	39.885	41.359	0.00	0.00
ATOM	3016	C	GLY	X	197	37.274	37.863	41.855	0.00	0.00
ATOM	3017	O	GLY	X	197	36.929	37.359	42.905	0.00	0.00
ATOM	3018	N	GLU	X	198	38.467	37.636	41.358	0.00	0.00
ATOM	3019	H	GLU	X	198	38.757	38.180	40.558	0.00	0.00
ATOM	3020	CA	GLU	X	198	39.495	36.839	42.018	0.00	0.00
ATOM	3021	HA	GLU	X	198	39.051	36.265	42.832	0.00	0.00
ATOM	3022	CB	GLU	X	198	39.945	35.807	40.958	0.00	0.00
ATOM	3023	HB2	GLU	X	198	38.992	35.326	40.741	0.00	0.00
ATOM	3024	HB3	GLU	X	198	40.197	36.371	40.060	0.00	0.00
ATOM	3025	CG	GLU	X	198	41.046	34.764	41.334	0.00	0.00
ATOM	3026	HG2	GLU	X	198	41.007	34.640	42.417	0.00	0.00
ATOM	3027	HG3	GLU	X	198	40.780	33.786	40.932	0.00	0.00
ATOM	3028	CD	GLU	X	198	42.480	35.243	41.086	0.00	0.00
ATOM	3029	OE1	GLU	X	198	42.729	36.222	40.355	0.00	0.00
ATOM	3030	OE2	GLU	X	198	43.386	34.612	41.669	0.00	0.00
ATOM	3031	C	GLU	X	198	40.667	37.702	42.652	0.00	0.00
ATOM	3032	O	GLU	X	198	40.959	38.754	42.120	0.00	0.00
ATOM	3033	N	XA1	X	199	41.190	37.360	43.780	0.00	0.00
ATOM	3034	CA	XA1	X	199	42.500	37.808	44.311	0.00	0.00
ATOM	3035	C	XA1	X	199	42.507	39.354	44.520	0.00	0.00
ATOM	3036	O	XA1	X	199	41.786	39.743	45.453	0.00	0.00
ATOM	3037	CB	XA1	X	199	43.639	37.318	43.429	0.00	0.00
ATOM	3038	OG	XA1	X	199	44.919	37.497	44.142	0.00	0.00
ATOM	3039	P1	XA1	X	199	46.124	37.948	43.209	0.00	0.00
ATOM	3040	O1	XA1	X	199	45.777	39.146	42.389	0.00	0.00
ATOM	3041	O2	XA1	X	199	46.617	36.786	42.403	0.00	0.00
ATOM	3042	C1	XA1	X	199	47.445	38.352	44.397	0.00	0.00
ATOM	3043	H	XA1	X	199	40.739	36.608	44.281	0.00	0.00
ATOM	3044	HA	XA1	X	199	42.612	37.402	45.316	0.00	0.00
ATOM	3045	HB2	XA1	X	199	43.480	36.240	43.352	0.00	0.00
ATOM	3046	HB3	XA1	X	199	43.699	37.729	42.418	0.00	0.00
ATOM	3047	H11	XA1	X	199	47.716	37.452	44.953	0.00	0.00
ATOM	3048	H12	XA1	X	199	48.330	38.798	43.939	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.000	39.078	45.081	0.00	0.00
ATOM	3050	N	ALA	X	200	43.295	40.178	43.778	0.00	0.00
ATOM	3051	H	ALA	X	200	44.035	39.760	43.233	0.00	0.00
ATOM	3052	CA	ALA	X	200	43.288	41.651	43.788	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.434	41.945	44.828	0.00	0.00
ATOM	3054	CB	ALA	X	200	44.462	42.222	42.925	0.00	0.00
ATOM	3055	HB1	ALA	X	200	44.383	41.949	41.873	0.00	0.00
ATOM	3056	HB2	ALA	X	200	45.412	41.905	43.356	0.00	0.00
ATOM	3057	HB3	ALA	X	200	44.434	43.311	42.889	0.00	0.00
ATOM	3058	C	ALA	X	200	41.940	42.206	43.315	0.00	0.00
ATOM	3059	O	ALA	X	200	41.493	43.255	43.771	0.00	0.00
ATOM	3060	N	GLY	X	201	41.220	41.467	42.449	0.00	0.00
ATOM	3061	H	GLY	X	201	41.637	40.599	42.144	0.00	0.00
ATOM	3062	CA	GLY	X	201	39.851	41.773	42.015	0.00	0.00
ATOM	3063	HA2	GLY	X	201	39.805	42.843	41.814	0.00	0.00
ATOM	3064	HA3	GLY	X	201	39.539	41.161	41.169	0.00	0.00
ATOM	3065	C	GLY	X	201	38.842	41.381	43.083	0.00	0.00
ATOM	3066	O	GLY	X	201	37.979	42.169	43.461	0.00	0.00
ATOM	3067	N	ALA	X	202	39.023	40.263	43.785	0.00	0.00
ATOM	3068	H	ALA	X	202	39.823	39.703	43.526	0.00	0.00
ATOM	3069	CA	ALA	X	202	38.251	39.978	45.000	0.00	0.00
ATOM	3070	HA	ALA	X	202	37.195	39.912	44.740	0.00	0.00
ATOM	3071	CB	ALA	X	202	38.635	38.595	45.563	0.00	0.00
ATOM	3072	HB1	ALA	X	202	39.694	38.415	45.752	0.00	0.00
ATOM	3073	HB2	ALA	X	202	38.455	37.824	44.815	0.00	0.00
ATOM	3074	HB3	ALA	X	202	38.068	38.386	46.470	0.00	0.00
ATOM	3075	C	ALA	X	202	38.415	41.082	46.071	0.00	0.00
ATOM	3076	O	ALA	X	202	37.529	41.648	46.633	0.00	0.00
ATOM	3077	N	ALA	X	203	39.686	41.380	46.426	0.00	0.00
ATOM	3078	H	ALA	X	203	40.413	40.817	46.008	0.00	0.00
ATOM	3079	CA	ALA	X	203	40.032	42.463	47.335	0.00	0.00

ATOM	3080	HA	ALA	X	203	39.519	42.189	48.257	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.537	42.537	47.475	0.00	0.00
ATOM	3082	HB1	ALA	X	203	41.964	41.603	47.840	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.944	43.358	48.065	0.00	0.00
ATOM	3084	HB3	ALA	X	203	42.008	42.675	46.502	0.00	0.00
ATOM	3085	C	ALA	X	203	39.421	43.793	46.899	0.00	0.00
ATOM	3086	O	ALA	X	203	38.848	44.515	47.742	0.00	0.00
ATOM	3087	N	SER	X	204	39.401	44.037	45.589	0.00	0.00
ATOM	3088	H	SER	X	204	40.038	43.540	44.983	0.00	0.00
ATOM	3089	CA	SER	X	204	38.790	45.261	45.048	0.00	0.00
ATOM	3090	HA	SER	X	204	39.221	46.099	45.596	0.00	0.00
ATOM	3091	CB	SER	X	204	38.959	45.458	43.516	0.00	0.00
ATOM	3092	HB2	SER	X	204	38.465	44.662	42.959	0.00	0.00
ATOM	3093	HB3	SER	X	204	38.426	46.340	43.161	0.00	0.00
ATOM	3094	OG	SER	X	204	40.344	45.494	43.236	0.00	0.00
ATOM	3095	HG	SER	X	204	40.788	44.707	43.558	0.00	0.00
ATOM	3096	C	SER	X	204	37.273	45.230	45.334	0.00	0.00
ATOM	3097	O	SER	X	204	36.709	46.201	45.867	0.00	0.00
ATOM	3098	N	VAL	X	205	36.524	44.113	45.132	0.00	0.00
ATOM	3099	H	VAL	X	205	37.059	43.398	44.660	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.093	43.903	45.487	0.00	0.00
ATOM	3101	HA	VAL	X	205	34.583	44.703	44.950	0.00	0.00
ATOM	3102	CB	VAL	X	205	34.573	42.555	44.945	0.00	0.00
ATOM	3103	HB	VAL	X	205	35.190	41.729	45.301	0.00	0.00
ATOM	3104	CG1	VAL	X	205	33.146	42.230	45.350	0.00	0.00
ATOM	3105	HG11	VAL	X	205	32.520	43.081	45.080	0.00	0.00
ATOM	3106	HG12	VAL	X	205	32.705	41.354	44.874	0.00	0.00
ATOM	3107	HG13	VAL	X	205	33.027	42.153	46.430	0.00	0.00
ATOM	3108	CG2	VAL	X	205	34.574	42.568	43.377	0.00	0.00
ATOM	3109	HG21	VAL	X	205	35.562	42.461	42.929	0.00	0.00
ATOM	3110	HG22	VAL	X	205	34.172	43.521	43.034	0.00	0.00
ATOM	3111	HG23	VAL	X	205	34.114	41.660	42.987	0.00	0.00
ATOM	3112	C	VAL	X	205	34.782	44.065	47.001	0.00	0.00
ATOM	3113	O	VAL	X	205	33.729	44.617	47.358	0.00	0.00
ATOM	3114	N	GLY	X	206	35.727	43.608	47.861	0.00	0.00
ATOM	3115	H	GLY	X	206	36.510	43.071	47.515	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.726	43.822	49.294	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.775	43.478	49.700	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.552	43.242	49.706	0.00	0.00
ATOM	3119	C	GLY	X	206	35.788	45.297	49.637	0.00	0.00
ATOM	3120	O	GLY	X	206	35.148	45.712	50.593	0.00	0.00
ATOM	3121	N	MET	X	207	36.513	46.143	48.895	0.00	0.00
ATOM	3122	H	MET	X	207	37.096	45.646	48.236	0.00	0.00
ATOM	3123	CA	MET	X	207	36.703	47.559	49.152	0.00	0.00
ATOM	3124	HA	MET	X	207	36.773	47.662	50.235	0.00	0.00
ATOM	3125	CB	MET	X	207	37.987	48.067	48.449	0.00	0.00
ATOM	3126	HB2	MET	X	207	37.875	47.820	47.394	0.00	0.00
ATOM	3127	HB3	MET	X	207	38.053	49.140	48.631	0.00	0.00
ATOM	3128	CG	MET	X	207	39.215	47.428	49.152	0.00	0.00
ATOM	3129	HG2	MET	X	207	39.278	47.698	50.206	0.00	0.00
ATOM	3130	HG3	MET	X	207	39.021	46.355	49.144	0.00	0.00
ATOM	3131	SD	MET	X	207	40.848	47.897	48.358	0.00	0.00
ATOM	3132	CE	MET	X	207	41.826	46.408	48.878	0.00	0.00
ATOM	3133	HE1	MET	X	207	41.913	46.409	49.965	0.00	0.00
ATOM	3134	HE2	MET	X	207	41.388	45.511	48.441	0.00	0.00
ATOM	3135	HE3	MET	X	207	42.843	46.492	48.495	0.00	0.00
ATOM	3136	C	MET	X	207	35.477	48.335	48.664	0.00	0.00
ATOM	3137	O	MET	X	207	35.023	49.256	49.381	0.00	0.00
ATOM	3138	N	HIE	X	208	34.831	47.904	47.600	0.00	0.00
ATOM	3139	H	HIE	X	208	35.271	47.157	47.083	0.00	0.00
ATOM	3140	CA	HIE	X	208	33.526	48.385	47.171	0.00	0.00
ATOM	3141	HA	HIE	X	208	33.539	49.474	47.137	0.00	0.00
ATOM	3142	CB	HIE	X	208	33.198	47.918	45.736	0.00	0.00
ATOM	3143	HB2	HIE	X	208	33.314	46.837	45.665	0.00	0.00
ATOM	3144	HB3	HIE	X	208	32.171	48.218	45.524	0.00	0.00
ATOM	3145	CG	HIE	X	208	34.105	48.579	44.678	0.00	0.00
ATOM	3146	ND1	HIE	X	208	34.347	49.942	44.441	0.00	0.00

ATOM	3147	CE1	HIE	X	208	35.228	49.963	43.452	0.00	0.00
ATOM	3148	HE1	HIE	X	208	35.730	50.869	43.145	0.00	0.00
ATOM	3149	NE2	HIE	X	208	35.658	48.697	43.145	0.00	0.00
ATOM	3150	HE2	HIE	X	208	36.527	48.559	42.649	0.00	0.00
ATOM	3151	CD2	HIE	X	208	34.916	47.843	43.901	0.00	0.00
ATOM	3152	HD2	HIE	X	208	35.016	46.768	43.924	0.00	0.00
ATOM	3153	C	HIE	X	208	32.411	47.978	48.136	0.00	0.00
ATOM	3154	O	HIE	X	208	31.442	48.738	48.242	0.00	0.00
ATOM	3155	N	LEU	X	209	32.489	46.879	48.895	0.00	0.00
ATOM	3156	H	LEU	X	209	33.237	46.236	48.676	0.00	0.00
ATOM	3157	CA	LEU	X	209	31.579	46.561	50.045	0.00	0.00
ATOM	3158	HA	LEU	X	209	30.533	46.661	49.754	0.00	0.00
ATOM	3159	CB	LEU	X	209	31.818	45.042	50.353	0.00	0.00
ATOM	3160	HB2	LEU	X	209	32.882	44.805	50.381	0.00	0.00
ATOM	3161	HB3	LEU	X	209	31.540	44.907	51.398	0.00	0.00
ATOM	3162	CG	LEU	X	209	31.117	44.045	49.465	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.320	44.189	48.404	0.00	0.00
ATOM	3164	CD1	LEU	X	209	31.613	42.693	49.849	0.00	0.00
ATOM	3165	HD11	LEU	X	209	31.534	42.505	50.920	0.00	0.00
ATOM	3166	HD12	LEU	X	209	32.674	42.676	49.601	0.00	0.00
ATOM	3167	HD13	LEU	X	209	31.064	41.898	49.343	0.00	0.00
ATOM	3168	CD2	LEU	X	209	29.623	44.097	49.605	0.00	0.00
ATOM	3169	HD21	LEU	X	209	29.397	44.076	50.671	0.00	0.00
ATOM	3170	HD22	LEU	X	209	29.100	45.033	49.410	0.00	0.00
ATOM	3171	HD23	LEU	X	209	29.133	43.227	49.168	0.00	0.00
ATOM	3172	C	LEU	X	209	31.840	47.506	51.259	0.00	0.00
ATOM	3173	O	LEU	X	209	30.931	47.653	52.111	0.00	0.00
ATOM	3174	N	LEU	X	210	33.004	48.121	51.465	0.00	0.00
ATOM	3175	H	LEU	X	210	33.726	48.030	50.765	0.00	0.00
ATOM	3176	CA	LEU	X	210	33.345	48.986	52.621	0.00	0.00
ATOM	3177	HA	LEU	X	210	32.629	48.812	53.425	0.00	0.00
ATOM	3178	CB	LEU	X	210	34.703	48.615	53.201	0.00	0.00
ATOM	3179	HB2	LEU	X	210	35.496	48.720	52.460	0.00	0.00
ATOM	3180	HB3	LEU	X	210	34.996	49.307	53.991	0.00	0.00
ATOM	3181	CG	LEU	X	210	34.888	47.139	53.761	0.00	0.00
ATOM	3182	HG	LEU	X	210	34.640	46.403	52.997	0.00	0.00
ATOM	3183	CD1	LEU	X	210	36.390	46.890	54.098	0.00	0.00
ATOM	3184	HD11	LEU	X	210	36.768	47.563	54.869	0.00	0.00
ATOM	3185	HD12	LEU	X	210	37.082	47.014	53.265	0.00	0.00
ATOM	3186	HD13	LEU	X	210	36.451	45.888	54.523	0.00	0.00
ATOM	3187	CD2	LEU	X	210	33.999	46.885	54.928	0.00	0.00
ATOM	3188	HD21	LEU	X	210	34.274	45.877	55.239	0.00	0.00
ATOM	3189	HD22	LEU	X	210	34.240	47.600	55.714	0.00	0.00
ATOM	3190	HD23	LEU	X	210	32.956	46.922	54.613	0.00	0.00
ATOM	3191	C	LEU	X	210	33.198	50.487	52.341	0.00	0.00
ATOM	3192	O	LEU	X	210	32.715	51.298	53.117	0.00	0.00
ATOM	3193	N	SER	X	211	33.620	50.873	51.136	0.00	0.00
ATOM	3194	H	SER	X	211	34.102	50.297	50.461	0.00	0.00
ATOM	3195	CA	SER	X	211	33.619	52.286	50.688	0.00	0.00
ATOM	3196	HA	SER	X	211	34.073	52.768	51.554	0.00	0.00
ATOM	3197	CB	SER	X	211	34.556	52.490	49.504	0.00	0.00
ATOM	3198	HB2	SER	X	211	35.518	52.029	49.728	0.00	0.00
ATOM	3199	HB3	SER	X	211	34.108	52.119	48.581	0.00	0.00
ATOM	3200	OG	SER	X	211	34.758	53.921	49.371	0.00	0.00
ATOM	3201	HG	SER	X	211	35.488	54.250	49.901	0.00	0.00
ATOM	3202	C	SER	X	211	32.206	52.795	50.397	0.00	0.00
ATOM	3203	O	SER	X	211	31.726	52.362	49.354	0.00	0.00
ATOM	3204	N	PRO	X	212	31.585	53.663	51.210	0.00	0.00
ATOM	3205	CD	PRO	X	212	32.160	54.465	52.319	0.00	0.00
ATOM	3206	HD2	PRO	X	212	32.737	55.262	51.849	0.00	0.00
ATOM	3207	HD3	PRO	X	212	32.821	53.912	52.987	0.00	0.00
ATOM	3208	CG	PRO	X	212	30.974	54.946	53.137	0.00	0.00
ATOM	3209	HG2	PRO	X	212	31.192	55.808	53.767	0.00	0.00
ATOM	3210	HG3	PRO	X	212	30.655	54.147	53.806	0.00	0.00
ATOM	3211	CB	PRO	X	212	29.877	55.160	52.095	0.00	0.00
ATOM	3212	HB2	PRO	X	212	30.031	56.150	51.665	0.00	0.00
ATOM	3213	HB3	PRO	X	212	28.866	55.175	52.501	0.00	0.00

ATOM	3214	CA	PRO	X	212	30.160	54.070	51.034	0.00	0.00
ATOM	3215	HA	PRO	X	212	29.466	53.289	51.343	0.00	0.00
ATOM	3216	C	PRO	X	212	29.699	54.619	49.639	0.00	0.00
ATOM	3217	O	PRO	X	212	28.529	54.335	49.432	0.00	0.00
ATOM	3218	N	PRO	X	213	30.550	55.370	48.841	0.00	0.00
ATOM	3219	CD	PRO	X	213	31.724	56.076	49.130	0.00	0.00
ATOM	3220	HD2	PRO	X	213	32.567	55.427	48.892	0.00	0.00
ATOM	3221	HD3	PRO	X	213	31.750	56.338	50.188	0.00	0.00
ATOM	3222	CG	PRO	X	213	31.782	57.280	48.219	0.00	0.00
ATOM	3223	HG2	PRO	X	213	32.839	57.471	48.036	0.00	0.00
ATOM	3224	HG3	PRO	X	213	31.271	58.120	48.691	0.00	0.00
ATOM	3225	CB	PRO	X	213	31.067	56.747	46.966	0.00	0.00
ATOM	3226	HB2	PRO	X	213	31.826	56.339	46.298	0.00	0.00
ATOM	3227	HB3	PRO	X	213	30.565	57.543	46.417	0.00	0.00
ATOM	3228	CA	PRO	X	213	30.098	55.761	47.470	0.00	0.00
ATOM	3229	HA	PRO	X	213	29.127	56.257	47.486	0.00	0.00
ATOM	3230	C	PRO	X	213	29.969	54.480	46.520	0.00	0.00
ATOM	3231	O	PRO	X	213	29.374	54.664	45.492	0.00	0.00
ATOM	3232	N	SER	X	214	30.448	53.290	46.763	0.00	0.00
ATOM	3233	H	SER	X	214	30.967	53.129	47.614	0.00	0.00
ATOM	3234	CA	SER	X	214	30.121	52.016	45.992	0.00	0.00
ATOM	3235	HA	SER	X	214	29.995	52.234	44.932	0.00	0.00
ATOM	3236	CB	SER	X	214	31.360	51.126	46.032	0.00	0.00
ATOM	3237	HB2	SER	X	214	31.649	50.979	47.073	0.00	0.00
ATOM	3238	HB3	SER	X	214	31.198	50.127	45.626	0.00	0.00
ATOM	3239	OG	SER	X	214	32.480	51.742	45.377	0.00	0.00
ATOM	3240	HG	SER	X	214	33.127	51.115	45.043	0.00	0.00
ATOM	3241	C	SER	X	214	28.901	51.334	46.515	0.00	0.00
ATOM	3242	O	SER	X	214	28.199	50.619	45.732	0.00	0.00
ATOM	3243	N	ARG	X	215	28.498	51.529	47.766	0.00	0.00
ATOM	3244	H	ARG	X	215	29.225	51.909	48.355	0.00	0.00
ATOM	3245	CA	ARG	X	215	27.364	50.942	48.420	0.00	0.00
ATOM	3246	HA	ARG	X	215	27.409	49.872	48.218	0.00	0.00
ATOM	3247	CB	ARG	X	215	27.469	51.100	49.916	0.00	0.00
ATOM	3248	HB2	ARG	X	215	27.618	52.131	50.236	0.00	0.00
ATOM	3249	HB3	ARG	X	215	26.500	50.822	50.330	0.00	0.00
ATOM	3250	CG	ARG	X	215	28.516	50.211	50.553	0.00	0.00
ATOM	3251	HG2	ARG	X	215	29.443	50.209	49.978	0.00	0.00
ATOM	3252	HG3	ARG	X	215	28.810	50.606	51.525	0.00	0.00
ATOM	3253	CD	ARG	X	215	27.974	48.753	50.783	0.00	0.00
ATOM	3254	HD2	ARG	X	215	27.434	48.458	49.883	0.00	0.00
ATOM	3255	HD3	ARG	X	215	28.774	48.021	50.894	0.00	0.00
ATOM	3256	NE	ARG	X	215	27.032	48.640	51.872	0.00	0.00
ATOM	3257	HE	ARG	X	215	26.138	49.053	51.647	0.00	0.00
ATOM	3258	CZ	ARG	X	215	27.250	48.125	53.095	0.00	0.00
ATOM	3259	NH1	ARG	X	215	28.424	47.692	53.495	0.00	0.00
ATOM	3260	HH11	ARG	X	215	29.202	47.660	52.853	0.00	0.00
ATOM	3261	HH12	ARG	X	215	28.481	47.275	54.414	0.00	0.00
ATOM	3262	NH2	ARG	X	215	26.258	48.079	53.965	0.00	0.00
ATOM	3263	HH21	ARG	X	215	25.333	48.310	53.631	0.00	0.00
ATOM	3264	HH22	ARG	X	215	26.385	47.849	54.940	0.00	0.00
ATOM	3265	C	ARG	X	215	26.035	51.525	47.880	0.00	0.00
ATOM	3266	O	ARG	X	215	24.951	51.150	48.342	0.00	0.00
ATOM	3267	N	GLY	X	216	25.975	52.368	46.828	0.00	0.00
ATOM	3268	H	GLY	X	216	26.861	52.768	46.555	0.00	0.00
ATOM	3269	CA	GLY	X	216	24.875	52.727	45.984	0.00	0.00
ATOM	3270	HA2	GLY	X	216	23.992	52.341	46.494	0.00	0.00
ATOM	3271	HA3	GLY	X	216	24.852	53.816	45.999	0.00	0.00
ATOM	3272	C	GLY	X	216	24.815	52.208	44.549	0.00	0.00
ATOM	3273	O	GLY	X	216	23.937	52.622	43.815	0.00	0.00
ATOM	3274	N	LEU	X	217	25.833	51.412	44.089	0.00	0.00
ATOM	3275	H	LEU	X	217	26.560	51.130	44.732	0.00	0.00
ATOM	3276	CA	LEU	X	217	26.047	50.990	42.660	0.00	0.00
ATOM	3277	HA	LEU	X	217	25.343	51.619	42.115	0.00	0.00
ATOM	3278	CB	LEU	X	217	27.531	51.351	42.295	0.00	0.00
ATOM	3279	HB2	LEU	X	217	28.241	50.780	42.893	0.00	0.00
ATOM	3280	HB3	LEU	X	217	27.705	50.951	41.296	0.00	0.00

ATOM	3281	CG	LEU	X	217	27.948	52.844	42.441	0.00	0.00
ATOM	3282	HG	LEU	X	217	27.849	53.218	43.460	0.00	0.00
ATOM	3283	CD1	LEU	X	217	29.380	52.987	41.970	0.00	0.00
ATOM	3284	HD11	LEU	X	217	29.616	54.015	42.244	0.00	0.00
ATOM	3285	HD12	LEU	X	217	29.341	52.852	40.889	0.00	0.00
ATOM	3286	HD13	LEU	X	217	30.085	52.341	42.493	0.00	0.00
ATOM	3287	CD2	LEU	X	217	27.085	53.771	41.584	0.00	0.00
ATOM	3288	HD21	LEU	X	217	26.045	53.664	41.894	0.00	0.00
ATOM	3289	HD22	LEU	X	217	27.238	54.847	41.660	0.00	0.00
ATOM	3290	HD23	LEU	X	217	27.139	53.527	40.523	0.00	0.00
ATOM	3291	C	LEU	X	217	25.748	49.533	42.441	0.00	0.00
ATOM	3292	O	LEU	X	217	25.668	49.103	41.267	0.00	0.00
ATOM	3293	N	PHE	X	218	25.495	48.665	43.482	0.00	0.00
ATOM	3294	H	PHE	X	218	25.288	49.033	44.400	0.00	0.00
ATOM	3295	CA	PHE	X	218	25.398	47.253	43.342	0.00	0.00
ATOM	3296	HA	PHE	X	218	24.786	47.069	42.460	0.00	0.00
ATOM	3297	CB	PHE	X	218	26.788	46.636	43.206	0.00	0.00
ATOM	3298	HB2	PHE	X	218	26.585	45.601	42.930	0.00	0.00
ATOM	3299	HB3	PHE	X	218	27.372	47.084	42.402	0.00	0.00
ATOM	3300	CG	PHE	X	218	27.685	46.674	44.461	0.00	0.00
ATOM	3301	CD1	PHE	X	218	28.533	47.732	44.815	0.00	0.00
ATOM	3302	HD1	PHE	X	218	28.454	48.652	44.254	0.00	0.00
ATOM	3303	CE1	PHE	X	218	29.413	47.662	45.907	0.00	0.00
ATOM	3304	HE1	PHE	X	218	29.952	48.542	46.226	0.00	0.00
ATOM	3305	CZ	PHE	X	218	29.443	46.539	46.690	0.00	0.00
ATOM	3306	HZ	PHE	X	218	29.948	46.482	47.643	0.00	0.00
ATOM	3307	CE2	PHE	X	218	28.612	45.411	46.312	0.00	0.00
ATOM	3308	HE2	PHE	X	218	28.615	44.533	46.941	0.00	0.00
ATOM	3309	CD2	PHE	X	218	27.764	45.550	45.212	0.00	0.00
ATOM	3310	HD2	PHE	X	218	27.121	44.699	45.037	0.00	0.00
ATOM	3311	C	PHE	X	218	24.688	46.659	44.586	0.00	0.00
ATOM	3312	O	PHE	X	218	24.648	47.255	45.675	0.00	0.00
ATOM	3313	N	HIE	X	219	24.189	45.407	44.454	0.00	0.00
ATOM	3314	H	HIE	X	219	24.322	45.064	43.513	0.00	0.00
ATOM	3315	CA	HIE	X	219	23.253	44.659	45.317	0.00	0.00
ATOM	3316	HA	HIE	X	219	23.005	45.401	46.076	0.00	0.00
ATOM	3317	CB	HIE	X	219	21.998	44.449	44.482	0.00	0.00
ATOM	3318	HB2	HIE	X	219	22.231	43.612	43.824	0.00	0.00
ATOM	3319	HB3	HIE	X	219	21.233	44.136	45.193	0.00	0.00
ATOM	3320	CG	HIE	X	219	21.582	45.632	43.675	0.00	0.00
ATOM	3321	ND1	HIE	X	219	22.074	45.961	42.420	0.00	0.00
ATOM	3322	CE1	HIE	X	219	21.722	47.240	42.229	0.00	0.00
ATOM	3323	HE1	HIE	X	219	21.996	47.928	41.443	0.00	0.00
ATOM	3324	NE2	HIE	X	219	21.126	47.742	43.247	0.00	0.00
ATOM	3325	HE2	HIE	X	219	20.934	48.716	43.433	0.00	0.00
ATOM	3326	CD2	HIE	X	219	21.121	46.777	44.245	0.00	0.00
ATOM	3327	HD2	HIE	X	219	20.914	46.993	45.283	0.00	0.00
ATOM	3328	C	HIE	X	219	23.809	43.375	45.951	0.00	0.00
ATOM	3329	O	HIE	X	219	23.310	42.925	46.990	0.00	0.00
ATOM	3330	N	ARG	X	220	24.763	42.702	45.304	0.00	0.00
ATOM	3331	H	ARG	X	220	25.042	42.996	44.379	0.00	0.00
ATOM	3332	CA	ARG	X	220	25.268	41.409	45.716	0.00	0.00
ATOM	3333	HA	ARG	X	220	25.050	41.288	46.777	0.00	0.00
ATOM	3334	CB	ARG	X	220	24.507	40.253	44.944	0.00	0.00
ATOM	3335	HB2	ARG	X	220	24.744	40.294	43.881	0.00	0.00
ATOM	3336	HB3	ARG	X	220	24.947	39.308	45.264	0.00	0.00
ATOM	3337	CG	ARG	X	220	22.973	40.151	45.122	0.00	0.00
ATOM	3338	HG2	ARG	X	220	22.800	40.107	46.197	0.00	0.00
ATOM	3339	HG3	ARG	X	220	22.525	41.051	44.702	0.00	0.00
ATOM	3340	CD	ARG	X	220	22.250	38.941	44.557	0.00	0.00
ATOM	3341	HD2	ARG	X	220	22.486	38.871	43.495	0.00	0.00
ATOM	3342	HD3	ARG	X	220	22.630	38.005	44.967	0.00	0.00
ATOM	3343	NE	ARG	X	220	20.814	39.061	44.740	0.00	0.00
ATOM	3344	HE	ARG	X	220	20.529	38.800	45.672	0.00	0.00
ATOM	3345	CZ	ARG	X	220	19.861	39.574	43.967	0.00	0.00
ATOM	3346	NH1	ARG	X	220	20.096	39.928	42.690	0.00	0.00
ATOM	3347	HH11	ARG	X	220	20.927	39.618	42.208	0.00	0.00

ATOM	3348	HH12	ARG	X	220	19.334	40.352	42.181	0.00	0.00
ATOM	3349	NH2	ARG	X	220	18.643	39.636	44.403	0.00	0.00
ATOM	3350	HH21	ARG	X	220	18.349	39.365	45.330	0.00	0.00
ATOM	3351	HH22	ARG	X	220	18.073	40.187	43.777	0.00	0.00
ATOM	3352	C	ARG	X	220	26.767	41.326	45.356	0.00	0.00
ATOM	3353	O	ARG	X	220	27.255	41.934	44.388	0.00	0.00
ATOM	3354	N	ALA	X	221	27.550	40.475	46.094	0.00	0.00
ATOM	3355	H	ALA	X	221	27.169	39.887	46.821	0.00	0.00
ATOM	3356	CA	ALA	X	221	29.007	40.376	45.839	0.00	0.00
ATOM	3357	HA	ALA	X	221	29.225	40.804	44.861	0.00	0.00
ATOM	3358	CB	ALA	X	221	29.667	41.306	46.911	0.00	0.00
ATOM	3359	HB1	ALA	X	221	29.411	40.927	47.901	0.00	0.00
ATOM	3360	HB2	ALA	X	221	29.356	42.350	46.889	0.00	0.00
ATOM	3361	HB3	ALA	X	221	30.751	41.391	46.837	0.00	0.00
ATOM	3362	C	ALA	X	221	29.543	38.886	45.897	0.00	0.00
ATOM	3363	O	ALA	X	221	28.933	38.019	46.594	0.00	0.00
ATOM	3364	N	VAL	X	222	30.667	38.660	45.140	0.00	0.00
ATOM	3365	H	VAL	X	222	30.910	39.291	44.390	0.00	0.00
ATOM	3366	CA	VAL	X	222	31.506	37.452	45.199	0.00	0.00
ATOM	3367	HA	VAL	X	222	31.076	36.880	46.021	0.00	0.00
ATOM	3368	CB	VAL	X	222	31.410	36.630	43.931	0.00	0.00
ATOM	3369	HB	VAL	X	222	31.898	37.216	43.152	0.00	0.00
ATOM	3370	CG1	VAL	X	222	32.027	35.261	44.167	0.00	0.00
ATOM	3371	HG11	VAL	X	222	31.417	34.767	44.923	0.00	0.00
ATOM	3372	HG12	VAL	X	222	31.902	34.667	43.262	0.00	0.00
ATOM	3373	HG13	VAL	X	222	33.067	35.275	44.490	0.00	0.00
ATOM	3374	CG2	VAL	X	222	29.946	36.524	43.443	0.00	0.00
ATOM	3375	HG21	VAL	X	222	29.184	36.151	44.127	0.00	0.00
ATOM	3376	HG22	VAL	X	222	29.933	35.801	42.628	0.00	0.00
ATOM	3377	HG23	VAL	X	222	29.657	37.494	43.039	0.00	0.00
ATOM	3378	C	VAL	X	222	32.931	37.841	45.433	0.00	0.00
ATOM	3379	O	VAL	X	222	33.424	38.744	44.802	0.00	0.00
ATOM	3380	N	LEU	X	223	33.621	37.051	46.220	0.00	0.00
ATOM	3381	H	LEU	X	223	33.153	36.352	46.780	0.00	0.00
ATOM	3382	CA	LEU	X	223	35.086	37.121	46.431	0.00	0.00
ATOM	3383	HA	LEU	X	223	35.543	37.735	45.655	0.00	0.00
ATOM	3384	CB	LEU	X	223	35.445	37.736	47.793	0.00	0.00
ATOM	3385	HB2	LEU	X	223	34.973	37.170	48.596	0.00	0.00
ATOM	3386	HB3	LEU	X	223	36.510	37.592	47.973	0.00	0.00
ATOM	3387	CG	LEU	X	223	35.119	39.261	47.977	0.00	0.00
ATOM	3388	HG	LEU	X	223	35.311	39.759	47.027	0.00	0.00
ATOM	3389	CD1	LEU	X	223	33.644	39.604	48.364	0.00	0.00
ATOM	3390	HD11	LEU	X	223	33.375	39.121	49.304	0.00	0.00
ATOM	3391	HD12	LEU	X	223	32.985	39.215	47.588	0.00	0.00
ATOM	3392	HD13	LEU	X	223	33.614	40.693	48.354	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.161	39.816	49.016	0.00	0.00
ATOM	3394	HD21	LEU	X	223	36.070	39.233	49.933	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.155	39.681	48.591	0.00	0.00
ATOM	3396	HD23	LEU	X	223	36.022	40.864	49.281	0.00	0.00
ATOM	3397	C	LEU	X	223	35.749	35.771	46.284	0.00	0.00
ATOM	3398	O	LEU	X	223	35.333	34.759	46.949	0.00	0.00
ATOM	3399	N	GLN	X	224	36.732	35.679	45.416	0.00	0.00
ATOM	3400	H	GLN	X	224	36.942	36.468	44.821	0.00	0.00
ATOM	3401	CA	GLN	X	224	37.392	34.328	45.011	0.00	0.00
ATOM	3402	HA	GLN	X	224	37.009	33.486	45.587	0.00	0.00
ATOM	3403	CB	GLN	X	224	37.158	33.983	43.505	0.00	0.00
ATOM	3404	HB2	GLN	X	224	37.597	34.790	42.918	0.00	0.00
ATOM	3405	HB3	GLN	X	224	37.653	33.034	43.301	0.00	0.00
ATOM	3406	CG	GLN	X	224	35.689	33.951	43.138	0.00	0.00
ATOM	3407	HG2	GLN	X	224	35.194	33.118	43.637	0.00	0.00
ATOM	3408	HG3	GLN	X	224	35.336	34.912	43.512	0.00	0.00
ATOM	3409	CD	GLN	X	224	35.379	33.894	41.630	0.00	0.00
ATOM	3410	OE1	GLN	X	224	34.327	34.259	41.135	0.00	0.00
ATOM	3411	NE2	GLN	X	224	36.219	33.326	40.814	0.00	0.00
ATOM	3412	HE21	GLN	X	224	35.943	33.459	39.852	0.00	0.00
ATOM	3413	HE22	GLN	X	224	37.024	32.807	41.134	0.00	0.00
ATOM	3414	C	GLN	X	224	38.843	34.441	45.335	0.00	0.00

ATOM	3415	O	GLN	X	224	39.545	35.304	44.818	0.00	0.00
ATOM	3416	N	SER	X	225	39.387	33.703	46.299	0.00	0.00
ATOM	3417	H	SER	X	225	38.776	33.009	46.705	0.00	0.00
ATOM	3418	CA	SER	X	225	40.840	33.578	46.612	0.00	0.00
ATOM	3419	HA	SER	X	225	40.928	32.929	47.483	0.00	0.00
ATOM	3420	CB	SER	X	225	41.516	32.880	45.449	0.00	0.00
ATOM	3421	HB2	SER	X	225	41.242	33.405	44.534	0.00	0.00
ATOM	3422	HB3	SER	X	225	42.578	32.959	45.677	0.00	0.00
ATOM	3423	OG	SER	X	225	41.216	31.495	45.371	0.00	0.00
ATOM	3424	HG	SER	X	225	41.831	31.052	45.960	0.00	0.00
ATOM	3425	C	SER	X	225	41.538	34.958	46.917	0.00	0.00
ATOM	3426	O	SER	X	225	42.734	35.240	46.694	0.00	0.00
ATOM	3427	N	GLY	X	226	40.723	35.933	47.431	0.00	0.00
ATOM	3428	H	GLY	X	226	39.744	35.689	47.380	0.00	0.00
ATOM	3429	CA	GLY	X	226	41.282	37.163	48.005	0.00	0.00
ATOM	3430	HA2	GLY	X	226	42.136	36.973	48.657	0.00	0.00
ATOM	3431	HA3	GLY	X	226	41.597	37.840	47.211	0.00	0.00
ATOM	3432	C	GLY	X	226	40.286	37.962	48.895	0.00	0.00
ATOM	3433	O	GLY	X	226	39.096	37.696	48.994	0.00	0.00
ATOM	3434	N	ALA	X	227	40.813	39.015	49.567	0.00	0.00
ATOM	3435	H	ALA	X	227	41.816	39.130	49.535	0.00	0.00
ATOM	3436	CA	ALA	X	227	40.170	39.829	50.602	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.145	40.072	50.321	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.062	38.934	51.879	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.345	39.467	52.503	0.00	0.00
ATOM	3440	HB2	ALA	X	227	41.037	38.783	52.342	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.520	38.032	51.594	0.00	0.00
ATOM	3442	C	ALA	X	227	40.895	41.155	50.969	0.00	0.00
ATOM	3443	O	ALA	X	227	42.117	41.119	50.933	0.00	0.00
ATOM	3444	N	PRO	X	228	40.184	42.258	51.237	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.736	42.245	51.494	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.424	41.446	52.166	0.00	0.00
ATOM	3447	HD3	PRO	X	228	38.270	42.082	50.522	0.00	0.00
ATOM	3448	CG	PRO	X	228	38.319	43.565	52.117	0.00	0.00
ATOM	3449	HG2	PRO	X	228	38.293	43.465	53.202	0.00	0.00
ATOM	3450	HG3	PRO	X	228	37.315	43.906	51.862	0.00	0.00
ATOM	3451	CB	PRO	X	228	39.447	44.485	51.576	0.00	0.00
ATOM	3452	HB2	PRO	X	228	39.697	45.369	52.162	0.00	0.00
ATOM	3453	HB3	PRO	X	228	39.193	44.796	50.563	0.00	0.00
ATOM	3454	CA	PRO	X	228	40.693	43.590	51.446	0.00	0.00
ATOM	3455	HA	PRO	X	228	41.308	43.864	50.589	0.00	0.00
ATOM	3456	C	PRO	X	228	41.447	43.588	52.768	0.00	0.00
ATOM	3457	O	PRO	X	228	42.418	44.294	52.817	0.00	0.00
ATOM	3458	N	ASN	X	229	41.092	42.805	53.760	0.00	0.00
ATOM	3459	H	ASN	X	229	40.295	42.203	53.611	0.00	0.00
ATOM	3460	CA	ASN	X	229	41.829	42.630	55.027	0.00	0.00
ATOM	3461	HA	ASN	X	229	42.305	43.566	55.318	0.00	0.00
ATOM	3462	CB	ASN	X	229	40.819	42.167	56.095	0.00	0.00
ATOM	3463	HB2	ASN	X	229	41.320	42.078	57.059	0.00	0.00
ATOM	3464	HB3	ASN	X	229	40.100	42.953	56.323	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.984	40.893	55.713	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.392	40.825	54.634	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.896	39.950	56.653	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.325	39.143	56.448	0.00	0.00
ATOM	3469	HD22	ASN	X	229	40.229	40.010	57.604	0.00	0.00
ATOM	3470	C	ASN	X	229	42.977	41.649	54.832	0.00	0.00
ATOM	3471	O	ASN	X	229	43.633	41.263	55.807	0.00	0.00
ATOM	3472	N	GLY	X	230	43.270	41.168	53.628	0.00	0.00
ATOM	3473	H	GLY	X	230	42.731	41.368	52.798	0.00	0.00
ATOM	3474	CA	GLY	X	230	44.476	40.361	53.372	0.00	0.00
ATOM	3475	HA2	GLY	X	230	44.399	39.569	54.117	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.414	40.063	52.325	0.00	0.00
ATOM	3477	C	GLY	X	230	45.719	41.184	53.582	0.00	0.00
ATOM	3478	O	GLY	X	230	45.740	42.375	53.241	0.00	0.00
ATOM	3479	N	PRO	X	231	46.781	40.694	54.216	0.00	0.00
ATOM	3480	CD	PRO	X	231	46.970	39.313	54.569	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.774	38.630	53.743	0.00	0.00

ATOM	3482	HD3	PRO	X	231	46.354	39.058	55.431	0.00	0.00
ATOM	3483	CG	PRO	X	231	48.411	39.136	54.962	0.00	0.00
ATOM	3484	HG2	PRO	X	231	49.113	39.044	54.133	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.587	38.283	55.618	0.00	0.00
ATOM	3486	CB	PRO	X	231	48.749	40.493	55.615	0.00	0.00
ATOM	3487	HB2	PRO	X	231	49.818	40.698	55.552	0.00	0.00
ATOM	3488	HB3	PRO	X	231	48.377	40.566	56.637	0.00	0.00
ATOM	3489	CA	PRO	X	231	47.913	41.466	54.714	0.00	0.00
ATOM	3490	HA	PRO	X	231	47.503	42.244	55.358	0.00	0.00
ATOM	3491	C	PRO	X	231	48.757	42.103	53.653	0.00	0.00
ATOM	3492	O	PRO	X	231	49.556	43.020	53.962	0.00	0.00
ATOM	3493	N	TRP	X	232	48.627	41.695	52.424	0.00	0.00
ATOM	3494	H	TRP	X	232	47.971	40.945	52.261	0.00	0.00
ATOM	3495	CA	TRP	X	232	49.125	42.267	51.202	0.00	0.00
ATOM	3496	HA	TRP	X	232	50.052	42.793	51.429	0.00	0.00
ATOM	3497	CB	TRP	X	232	49.420	41.009	50.291	0.00	0.00
ATOM	3498	HB2	TRP	X	232	49.877	41.266	49.336	0.00	0.00
ATOM	3499	HB3	TRP	X	232	50.109	40.358	50.829	0.00	0.00
ATOM	3500	CG	TRP	X	232	48.133	40.254	49.903	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.688	39.199	50.584	0.00	0.00
ATOM	3502	HD1	TRP	X	232	48.331	38.799	51.355	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.481	38.780	50.121	0.00	0.00
ATOM	3504	HE1	TRP	X	232	46.007	37.968	50.492	0.00	0.00
ATOM	3505	CE2	TRP	X	232	46.168	39.490	48.990	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	45.111	39.417	48.063	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	44.346	38.657	48.123	0.00	0.00
ATOM	3508	CH2	TRP	X	232	44.940	40.324	47.038	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.167	40.255	46.287	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.923	41.357	46.965	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.859	42.061	46.148	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.948	41.480	47.915	0.00	0.00
ATOM	3513	HE3	TRP	X	232	47.693	42.257	47.822	0.00	0.00
ATOM	3514	CD2	TRP	X	232	47.106	40.525	48.947	0.00	0.00
ATOM	3515	C	TRP	X	232	48.285	43.280	50.444	0.00	0.00
ATOM	3516	O	TRP	X	232	48.818	43.967	49.569	0.00	0.00
ATOM	3517	N	ALA	X	233	46.962	43.399	50.776	0.00	0.00
ATOM	3518	H	ALA	X	233	46.683	42.881	51.597	0.00	0.00
ATOM	3519	CA	ALA	X	233	46.001	44.093	49.960	0.00	0.00
ATOM	3520	HA	ALA	X	233	46.255	43.894	48.919	0.00	0.00
ATOM	3521	CB	ALA	X	233	44.685	43.309	50.199	0.00	0.00
ATOM	3522	HB1	ALA	X	233	43.913	43.637	49.502	0.00	0.00
ATOM	3523	HB2	ALA	X	233	44.340	43.290	51.233	0.00	0.00
ATOM	3524	HB3	ALA	X	233	44.845	42.307	49.801	0.00	0.00
ATOM	3525	C	ALA	X	233	45.877	45.578	50.291	0.00	0.00
ATOM	3526	O	ALA	X	233	45.322	46.309	49.516	0.00	0.00
ATOM	3527	N	THR	X	234	46.264	46.050	51.474	0.00	0.00
ATOM	3528	H	THR	X	234	46.747	45.439	52.118	0.00	0.00
ATOM	3529	CA	THR	X	234	46.183	47.443	51.885	0.00	0.00
ATOM	3530	HA	THR	X	234	46.015	48.049	50.995	0.00	0.00
ATOM	3531	CB	THR	X	234	44.944	47.723	52.815	0.00	0.00
ATOM	3532	HB	THR	X	234	45.062	48.716	53.248	0.00	0.00
ATOM	3533	CG2	THR	X	234	43.702	47.856	51.955	0.00	0.00
ATOM	3534	HG21	THR	X	234	43.903	48.527	51.120	0.00	0.00
ATOM	3535	HG22	THR	X	234	42.871	48.351	52.459	0.00	0.00
ATOM	3536	HG23	THR	X	234	43.390	46.857	51.649	0.00	0.00
ATOM	3537	OG1	THR	X	234	44.707	46.744	53.760	0.00	0.00
ATOM	3538	HG1	THR	X	234	44.362	45.929	53.388	0.00	0.00
ATOM	3539	C	THR	X	234	47.450	47.932	52.566	0.00	0.00
ATOM	3540	O	THR	X	234	48.066	47.296	53.412	0.00	0.00
ATOM	3541	N	VAL	X	235	47.873	49.099	52.252	0.00	0.00
ATOM	3542	H	VAL	X	235	47.285	49.516	51.545	0.00	0.00
ATOM	3543	CA	VAL	X	235	49.069	49.830	52.771	0.00	0.00
ATOM	3544	HA	VAL	X	235	49.576	49.096	53.398	0.00	0.00
ATOM	3545	CB	VAL	X	235	50.021	50.173	51.613	0.00	0.00
ATOM	3546	HB	VAL	X	235	50.112	49.266	51.016	0.00	0.00
ATOM	3547	CG1	VAL	X	235	49.563	51.256	50.614	0.00	0.00
ATOM	3548	HG11	VAL	X	235	49.366	52.190	51.140	0.00	0.00

ATOM	3549	HG12	VAL	X	235	50.344	51.448	49.879	0.00	0.00
ATOM	3550	HG13	VAL	X	235	48.614	51.080	50.107	0.00	0.00
ATOM	3551	CG2	VAL	X	235	51.390	50.587	52.061	0.00	0.00
ATOM	3552	HG21	VAL	X	235	51.449	51.572	52.524	0.00	0.00
ATOM	3553	HG22	VAL	X	235	52.025	50.637	51.176	0.00	0.00
ATOM	3554	HG23	VAL	X	235	51.913	49.829	52.644	0.00	0.00
ATOM	3555	C	VAL	X	235	48.696	51.078	53.611	0.00	0.00
ATOM	3556	O	VAL	X	235	47.770	51.867	53.281	0.00	0.00
ATOM	3557	N	GLY	X	236	49.503	51.293	54.643	0.00	0.00
ATOM	3558	H	GLY	X	236	50.217	50.613	54.861	0.00	0.00
ATOM	3559	CA	GLY	X	236	49.345	52.434	55.539	0.00	0.00
ATOM	3560	HA2	GLY	X	236	48.358	52.860	55.719	0.00	0.00
ATOM	3561	HA3	GLY	X	236	49.741	52.198	56.527	0.00	0.00
ATOM	3562	C	GLY	X	236	50.144	53.655	55.061	0.00	0.00
ATOM	3563	O	GLY	X	236	51.202	53.551	54.449	0.00	0.00
ATOM	3564	N	MET	X	237	49.609	54.879	55.273	0.00	0.00
ATOM	3565	H	MET	X	237	48.749	54.946	55.798	0.00	0.00
ATOM	3566	CA	MET	X	237	50.106	56.158	54.770	0.00	0.00
ATOM	3567	HA	MET	X	237	49.756	56.212	53.739	0.00	0.00
ATOM	3568	CB	MET	X	237	49.405	57.215	55.646	0.00	0.00
ATOM	3569	HB2	MET	X	237	49.641	57.186	56.710	0.00	0.00
ATOM	3570	HB3	MET	X	237	49.754	58.188	55.302	0.00	0.00
ATOM	3571	CG	MET	X	237	47.845	57.288	55.489	0.00	0.00
ATOM	3572	HG2	MET	X	237	47.609	57.499	54.446	0.00	0.00
ATOM	3573	HG3	MET	X	237	47.315	56.395	55.822	0.00	0.00
ATOM	3574	SD	MET	X	237	47.104	58.550	56.581	0.00	0.00
ATOM	3575	CE	MET	X	237	45.356	58.479	55.971	0.00	0.00
ATOM	3576	HE1	MET	X	237	45.406	58.735	54.913	0.00	0.00
ATOM	3577	HE2	MET	X	237	44.979	57.457	56.000	0.00	0.00
ATOM	3578	HE3	MET	X	237	44.838	59.239	56.557	0.00	0.00
ATOM	3579	C	MET	X	237	51.610	56.407	54.855	0.00	0.00
ATOM	3580	O	MET	X	237	52.198	56.846	53.874	0.00	0.00
ATOM	3581	N	GLY	X	238	52.260	56.065	56.045	0.00	0.00
ATOM	3582	H	GLY	X	238	51.774	55.689	56.847	0.00	0.00
ATOM	3583	CA	GLY	X	238	53.712	56.172	56.236	0.00	0.00
ATOM	3584	HA2	GLY	X	238	53.952	57.215	56.028	0.00	0.00
ATOM	3585	HA3	GLY	X	238	53.820	56.029	57.311	0.00	0.00
ATOM	3586	C	GLY	X	238	54.581	55.198	55.464	0.00	0.00
ATOM	3587	O	GLY	X	238	55.809	55.439	55.449	0.00	0.00
ATOM	3588	N	GLU	X	239	54.035	54.132	54.846	0.00	0.00
ATOM	3589	H	GLU	X	239	53.034	54.029	54.927	0.00	0.00
ATOM	3590	CA	GLU	X	239	54.786	53.308	53.941	0.00	0.00
ATOM	3591	HA	GLU	X	239	55.848	53.498	54.096	0.00	0.00
ATOM	3592	CB	GLU	X	239	54.441	51.844	54.200	0.00	0.00
ATOM	3593	HB2	GLU	X	239	53.654	51.804	54.952	0.00	0.00
ATOM	3594	HB3	GLU	X	239	53.946	51.394	53.340	0.00	0.00
ATOM	3595	CG	GLU	X	239	55.618	50.945	54.642	0.00	0.00
ATOM	3596	HG2	GLU	X	239	56.250	51.417	55.394	0.00	0.00
ATOM	3597	HG3	GLU	X	239	55.175	50.020	55.011	0.00	0.00
ATOM	3598	CD	GLU	X	239	56.479	50.538	53.463	0.00	0.00
ATOM	3599	OE1	GLU	X	239	57.254	51.386	52.992	0.00	0.00
ATOM	3600	OE2	GLU	X	239	56.245	49.437	52.859	0.00	0.00
ATOM	3601	C	GLU	X	239	54.449	53.799	52.528	0.00	0.00
ATOM	3602	O	GLU	X	239	55.349	53.831	51.718	0.00	0.00
ATOM	3603	N	ALA	X	240	53.139	54.077	52.234	0.00	0.00
ATOM	3604	H	ALA	X	240	52.438	53.905	52.940	0.00	0.00
ATOM	3605	CA	ALA	X	240	52.695	54.512	50.893	0.00	0.00
ATOM	3606	HA	ALA	X	240	52.896	53.647	50.260	0.00	0.00
ATOM	3607	CB	ALA	X	240	51.257	54.859	50.920	0.00	0.00
ATOM	3608	HB1	ALA	X	240	50.704	54.054	51.404	0.00	0.00
ATOM	3609	HB2	ALA	X	240	50.838	55.006	49.925	0.00	0.00
ATOM	3610	HB3	ALA	X	240	51.097	55.711	51.582	0.00	0.00
ATOM	3611	C	ALA	X	240	53.587	55.644	50.271	0.00	0.00
ATOM	3612	O	ALA	X	240	54.293	55.431	49.276	0.00	0.00
ATOM	3613	N	ARG	X	241	53.661	56.850	50.974	0.00	0.00
ATOM	3614	H	ARG	X	241	53.227	56.849	51.886	0.00	0.00
ATOM	3615	CA	ARG	X	241	54.461	57.956	50.558	0.00	0.00

ATOM	3616	HA	ARG	X	241	54.288	58.203	49.510	0.00	0.00
ATOM	3617	CB	ARG	X	241	54.006	59.254	51.230	0.00	0.00
ATOM	3618	HB2	ARG	X	241	54.453	60.101	50.708	0.00	0.00
ATOM	3619	HB3	ARG	X	241	52.928	59.329	51.082	0.00	0.00
ATOM	3620	CG	ARG	X	241	54.414	59.438	52.690	0.00	0.00
ATOM	3621	HG2	ARG	X	241	53.881	58.679	53.263	0.00	0.00
ATOM	3622	HG3	ARG	X	241	55.502	59.402	52.755	0.00	0.00
ATOM	3623	CD	ARG	X	241	53.872	60.788	53.255	0.00	0.00
ATOM	3624	HD2	ARG	X	241	52.808	60.775	53.021	0.00	0.00
ATOM	3625	HD3	ARG	X	241	54.153	60.798	54.308	0.00	0.00
ATOM	3626	NE	ARG	X	241	54.492	61.913	52.598	0.00	0.00
ATOM	3627	HE	ARG	X	241	55.467	62.013	52.839	0.00	0.00
ATOM	3628	CZ	ARG	X	241	53.929	62.815	51.803	0.00	0.00
ATOM	3629	NH1	ARG	X	241	52.646	62.706	51.541	0.00	0.00
ATOM	3630	HH11	ARG	X	241	52.010	62.207	52.147	0.00	0.00
ATOM	3631	HH12	ARG	X	241	52.313	63.365	50.851	0.00	0.00
ATOM	3632	NH2	ARG	X	241	54.673	63.788	51.346	0.00	0.00
ATOM	3633	HH21	ARG	X	241	55.655	63.851	51.573	0.00	0.00
ATOM	3634	HH22	ARG	X	241	54.204	64.397	50.691	0.00	0.00
ATOM	3635	C	ARG	X	241	55.994	57.665	50.529	0.00	0.00
ATOM	3636	O	ARG	X	241	56.824	58.135	49.665	0.00	0.00
ATOM	3637	N	ARG	X	242	56.440	56.719	51.386	0.00	0.00
ATOM	3638	H	ARG	X	242	55.828	56.231	52.025	0.00	0.00
ATOM	3639	CA	ARG	X	242	57.882	56.331	51.457	0.00	0.00
ATOM	3640	HA	ARG	X	242	58.506	57.216	51.331	0.00	0.00
ATOM	3641	CB	ARG	X	242	58.163	55.435	52.702	0.00	0.00
ATOM	3642	HB2	ARG	X	242	57.602	55.863	53.533	0.00	0.00
ATOM	3643	HB3	ARG	X	242	57.646	54.520	52.413	0.00	0.00
ATOM	3644	CG	ARG	X	242	59.580	55.219	53.108	0.00	0.00
ATOM	3645	HG2	ARG	X	242	60.131	55.129	52.172	0.00	0.00
ATOM	3646	HG3	ARG	X	242	59.893	56.132	53.613	0.00	0.00
ATOM	3647	CD	ARG	X	242	59.903	54.009	54.007	0.00	0.00
ATOM	3648	HD2	ARG	X	242	60.976	53.990	54.200	0.00	0.00
ATOM	3649	HD3	ARG	X	242	59.330	54.059	54.933	0.00	0.00
ATOM	3650	NE	ARG	X	242	59.614	52.787	53.214	0.00	0.00
ATOM	3651	HE	ARG	X	242	58.689	52.397	53.324	0.00	0.00
ATOM	3652	CZ	ARG	X	242	60.371	52.241	52.286	0.00	0.00
ATOM	3653	NH1	ARG	X	242	61.579	52.659	52.070	0.00	0.00
ATOM	3654	HH11	ARG	X	242	61.952	53.423	52.614	0.00	0.00
ATOM	3655	HH12	ARG	X	242	62.071	52.265	51.281	0.00	0.00
ATOM	3656	NH2	ARG	X	242	59.874	51.291	51.493	0.00	0.00
ATOM	3657	HH21	ARG	X	242	58.926	51.020	51.711	0.00	0.00
ATOM	3658	HH22	ARG	X	242	60.392	51.001	50.676	0.00	0.00
ATOM	3659	C	ARG	X	242	58.274	55.445	50.191	0.00	0.00
ATOM	3660	O	ARG	X	242	59.296	55.772	49.624	0.00	0.00
ATOM	3661	N	ARG	X	243	57.406	54.550	49.743	0.00	0.00
ATOM	3662	H	ARG	X	243	56.600	54.330	50.311	0.00	0.00
ATOM	3663	CA	ARG	X	243	57.589	53.784	48.500	0.00	0.00
ATOM	3664	HA	ARG	X	243	58.541	53.258	48.561	0.00	0.00
ATOM	3665	CB	ARG	X	243	56.496	52.722	48.347	0.00	0.00
ATOM	3666	HB2	ARG	X	243	55.521	53.184	48.501	0.00	0.00
ATOM	3667	HB3	ARG	X	243	56.500	52.354	47.321	0.00	0.00
ATOM	3668	CG	ARG	X	243	56.677	51.600	49.367	0.00	0.00
ATOM	3669	HG2	ARG	X	243	57.687	51.197	49.299	0.00	0.00
ATOM	3670	HG3	ARG	X	243	56.477	51.960	50.377	0.00	0.00
ATOM	3671	CD	ARG	X	243	55.570	50.594	49.093	0.00	0.00
ATOM	3672	HD2	ARG	X	243	54.625	51.133	49.026	0.00	0.00
ATOM	3673	HD3	ARG	X	243	55.764	50.185	48.101	0.00	0.00
ATOM	3674	NE	ARG	X	243	55.630	49.584	50.134	0.00	0.00
ATOM	3675	HE	ARG	X	243	56.050	49.751	51.037	0.00	0.00
ATOM	3676	CZ	ARG	X	243	54.886	48.481	50.089	0.00	0.00
ATOM	3677	NH1	ARG	X	243	54.182	48.151	49.051	0.00	0.00
ATOM	3678	HH11	ARG	X	243	54.165	48.723	48.220	0.00	0.00
ATOM	3679	HH12	ARG	X	243	53.825	47.211	48.955	0.00	0.00
ATOM	3680	NH2	ARG	X	243	54.828	47.816	51.210	0.00	0.00
ATOM	3681	HH21	ARG	X	243	55.340	48.144	52.016	0.00	0.00
ATOM	3682	HH22	ARG	X	243	54.304	46.954	51.240	0.00	0.00

ATOM	3683	C	ARG	X	243	57.587	54.843	47.365	0.00	0.00
ATOM	3684	O	ARG	X	243	58.543	54.882	46.592	0.00	0.00
ATOM	3685	N	ALA	X	244	56.576	55.679	47.269	0.00	0.00
ATOM	3686	H	ALA	X	244	55.796	55.646	47.910	0.00	0.00
ATOM	3687	CA	ALA	X	244	56.443	56.650	46.223	0.00	0.00
ATOM	3688	HA	ALA	X	244	56.338	56.188	45.241	0.00	0.00
ATOM	3689	CB	ALA	X	244	55.195	57.536	46.483	0.00	0.00
ATOM	3690	HB1	ALA	X	244	54.244	57.003	46.486	0.00	0.00
ATOM	3691	HB2	ALA	X	244	55.077	58.342	45.758	0.00	0.00
ATOM	3692	HB3	ALA	X	244	55.247	58.054	47.441	0.00	0.00
ATOM	3693	C	ALA	X	244	57.742	57.595	46.096	0.00	0.00
ATOM	3694	O	ALA	X	244	58.237	57.805	44.970	0.00	0.00
ATOM	3695	N	THR	X	245	58.298	57.996	47.241	0.00	0.00
ATOM	3696	H	THR	X	245	57.804	57.930	48.119	0.00	0.00
ATOM	3697	CA	THR	X	245	59.591	58.728	47.364	0.00	0.00
ATOM	3698	HA	THR	X	245	59.627	59.622	46.742	0.00	0.00
ATOM	3699	CB	THR	X	245	59.686	59.292	48.749	0.00	0.00
ATOM	3700	HB	THR	X	245	59.693	58.471	49.466	0.00	0.00
ATOM	3701	CG2	THR	X	245	60.954	60.141	48.958	0.00	0.00
ATOM	3702	HG21	THR	X	245	60.895	61.030	48.330	0.00	0.00
ATOM	3703	HG22	THR	X	245	61.861	59.563	48.782	0.00	0.00
ATOM	3704	HG23	THR	X	245	60.988	60.325	50.032	0.00	0.00
ATOM	3705	OG1	THR	X	245	58.528	60.121	49.045	0.00	0.00
ATOM	3706	HG1	THR	X	245	57.861	59.479	49.300	0.00	0.00
ATOM	3707	C	THR	X	245	60.783	57.919	47.012	0.00	0.00
ATOM	3708	O	THR	X	245	61.639	58.427	46.309	0.00	0.00
ATOM	3709	N	GLN	X	246	60.794	56.627	47.382	0.00	0.00
ATOM	3710	H	GLN	X	246	60.033	56.262	47.937	0.00	0.00
ATOM	3711	CA	GLN	X	246	61.790	55.663	46.856	0.00	0.00
ATOM	3712	HA	GLN	X	246	62.738	56.166	47.047	0.00	0.00
ATOM	3713	CB	GLN	X	246	61.684	54.383	47.628	0.00	0.00
ATOM	3714	HB2	GLN	X	246	61.681	54.601	48.695	0.00	0.00
ATOM	3715	HB3	GLN	X	246	60.668	54.000	47.535	0.00	0.00
ATOM	3716	CG	GLN	X	246	62.820	53.454	47.308	0.00	0.00
ATOM	3717	HG2	GLN	X	246	62.658	53.075	46.299	0.00	0.00
ATOM	3718	HG3	GLN	X	246	63.725	54.055	47.216	0.00	0.00
ATOM	3719	CD	GLN	X	246	62.992	52.364	48.362	0.00	0.00
ATOM	3720	OE1	GLN	X	246	62.616	52.418	49.497	0.00	0.00
ATOM	3721	NE2	GLN	X	246	63.810	51.370	48.089	0.00	0.00
ATOM	3722	HE21	GLN	X	246	63.877	50.565	48.695	0.00	0.00
ATOM	3723	HE22	GLN	X	246	64.221	51.172	47.188	0.00	0.00
ATOM	3724	C	GLN	X	246	61.865	55.536	45.314	0.00	0.00
ATOM	3725	O	GLN	X	246	62.977	55.438	44.767	0.00	0.00
ATOM	3726	N	LEU	X	247	60.692	55.399	44.625	0.00	0.00
ATOM	3727	H	LEU	X	247	59.830	55.464	45.147	0.00	0.00
ATOM	3728	CA	LEU	X	247	60.658	55.448	43.172	0.00	0.00
ATOM	3729	HA	LEU	X	247	61.457	54.754	42.912	0.00	0.00
ATOM	3730	CB	LEU	X	247	59.219	55.121	42.705	0.00	0.00
ATOM	3731	HB2	LEU	X	247	58.797	54.317	43.307	0.00	0.00
ATOM	3732	HB3	LEU	X	247	58.652	56.013	42.971	0.00	0.00
ATOM	3733	CG	LEU	X	247	59.152	54.853	41.153	0.00	0.00
ATOM	3734	HG	LEU	X	247	59.758	55.558	40.584	0.00	0.00
ATOM	3735	CD1	LEU	X	247	59.745	53.502	40.824	0.00	0.00
ATOM	3736	HD11	LEU	X	247	59.482	52.769	41.587	0.00	0.00
ATOM	3737	HD12	LEU	X	247	60.808	53.701	40.963	0.00	0.00
ATOM	3738	HD13	LEU	X	247	59.552	53.164	39.806	0.00	0.00
ATOM	3739	CD2	LEU	X	247	57.702	54.951	40.697	0.00	0.00
ATOM	3740	HD21	LEU	X	247	57.424	56.001	40.789	0.00	0.00
ATOM	3741	HD22	LEU	X	247	57.700	54.714	39.633	0.00	0.00
ATOM	3742	HD23	LEU	X	247	57.021	54.264	41.200	0.00	0.00
ATOM	3743	C	LEU	X	247	61.152	56.755	42.570	0.00	0.00
ATOM	3744	O	LEU	X	247	62.111	56.723	41.746	0.00	0.00
ATOM	3745	N	ALA	X	248	60.746	57.894	43.159	0.00	0.00
ATOM	3746	H	ALA	X	248	60.136	57.812	43.960	0.00	0.00
ATOM	3747	CA	ALA	X	248	61.241	59.226	42.785	0.00	0.00
ATOM	3748	HA	ALA	X	248	60.958	59.328	41.737	0.00	0.00
ATOM	3749	CB	ALA	X	248	60.386	60.229	43.560	0.00	0.00

ATOM	3750	HB1	ALA	X	248	60.643	61.232	43.219	0.00	0.00
ATOM	3751	HB2	ALA	X	248	60.554	60.133	44.633	0.00	0.00
ATOM	3752	HB3	ALA	X	248	59.312	60.079	43.450	0.00	0.00
ATOM	3753	C	ALA	X	248	62.758	59.367	42.995	0.00	0.00
ATOM	3754	O	ALA	X	248	63.383	59.756	42.031	0.00	0.00
ATOM	3755	N	HIE	X	249	63.335	58.990	44.189	0.00	0.00
ATOM	3756	H	HIE	X	249	62.733	58.929	44.998	0.00	0.00
ATOM	3757	CA	HIE	X	249	64.835	58.961	44.388	0.00	0.00
ATOM	3758	HA	HIE	X	249	65.148	60.005	44.415	0.00	0.00
ATOM	3759	CB	HIE	X	249	65.125	58.268	45.721	0.00	0.00
ATOM	3760	HB2	HIE	X	249	64.483	57.389	45.784	0.00	0.00
ATOM	3761	HB3	HIE	X	249	66.157	57.942	45.845	0.00	0.00
ATOM	3762	CG	HIE	X	249	64.898	59.135	46.955	0.00	0.00
ATOM	3763	ND1	HIE	X	249	64.946	60.548	46.985	0.00	0.00
ATOM	3764	CE1	HIE	X	249	64.662	60.866	48.278	0.00	0.00
ATOM	3765	HE1	HIE	X	249	64.588	61.836	48.747	0.00	0.00
ATOM	3766	NE2	HIE	X	249	64.443	59.782	49.011	0.00	0.00
ATOM	3767	HE2	HIE	X	249	64.163	59.797	49.981	0.00	0.00
ATOM	3768	CD2	HIE	X	249	64.665	58.694	48.205	0.00	0.00
ATOM	3769	HD2	HIE	X	249	64.613	57.664	48.522	0.00	0.00
ATOM	3770	C	HIE	X	249	65.679	58.203	43.370	0.00	0.00
ATOM	3771	O	HIE	X	249	66.857	58.582	43.071	0.00	0.00
ATOM	3772	N	LEU	X	250	65.062	57.169	42.761	0.00	0.00
ATOM	3773	H	LEU	X	250	64.212	56.769	43.133	0.00	0.00
ATOM	3774	CA	LEU	X	250	65.708	56.378	41.757	0.00	0.00
ATOM	3775	HA	LEU	X	250	66.783	56.346	41.936	0.00	0.00
ATOM	3776	CB	LEU	X	250	65.106	54.929	41.741	0.00	0.00
ATOM	3777	HB2	LEU	X	250	64.033	55.101	41.666	0.00	0.00
ATOM	3778	HB3	LEU	X	250	65.459	54.500	40.803	0.00	0.00
ATOM	3779	CG	LEU	X	250	65.420	54.087	42.969	0.00	0.00
ATOM	3780	HG	LEU	X	250	65.260	54.622	43.905	0.00	0.00
ATOM	3781	CD1	LEU	X	250	64.461	52.876	43.050	0.00	0.00
ATOM	3782	HD11	LEU	X	250	64.723	52.347	43.966	0.00	0.00
ATOM	3783	HD12	LEU	X	250	64.652	52.230	42.193	0.00	0.00
ATOM	3784	HD13	LEU	X	250	63.440	53.255	43.091	0.00	0.00
ATOM	3785	CD2	LEU	X	250	66.879	53.635	42.925	0.00	0.00
ATOM	3786	HD21	LEU	X	250	67.253	53.254	41.975	0.00	0.00
ATOM	3787	HD22	LEU	X	250	67.514	54.520	42.951	0.00	0.00
ATOM	3788	HD23	LEU	X	250	67.086	52.915	43.717	0.00	0.00
ATOM	3789	C	LEU	X	250	65.532	56.978	40.373	0.00	0.00
ATOM	3790	O	LEU	X	250	66.468	57.012	39.617	0.00	0.00
ATOM	3791	N	VAL	X	251	64.269	57.375	40.061	0.00	0.00
ATOM	3792	H	VAL	X	251	63.576	57.115	40.748	0.00	0.00
ATOM	3793	CA	VAL	X	251	63.885	57.845	38.741	0.00	0.00
ATOM	3794	HA	VAL	X	251	64.336	57.250	37.947	0.00	0.00
ATOM	3795	CB	VAL	X	251	62.302	57.752	38.589	0.00	0.00
ATOM	3796	HB	VAL	X	251	61.806	58.115	39.489	0.00	0.00
ATOM	3797	CG1	VAL	X	251	61.703	58.501	37.357	0.00	0.00
ATOM	3798	HG11	VAL	X	251	62.358	58.205	36.537	0.00	0.00
ATOM	3799	HG12	VAL	X	251	60.689	58.175	37.128	0.00	0.00
ATOM	3800	HG13	VAL	X	251	61.599	59.573	37.521	0.00	0.00
ATOM	3801	CG2	VAL	X	251	61.957	56.275	38.357	0.00	0.00
ATOM	3802	HG21	VAL	X	251	62.391	55.715	39.185	0.00	0.00
ATOM	3803	HG22	VAL	X	251	62.404	55.883	37.443	0.00	0.00
ATOM	3804	HG23	VAL	X	251	60.869	56.245	38.411	0.00	0.00
ATOM	3805	C	VAL	X	251	64.391	59.334	38.550	0.00	0.00
ATOM	3806	O	VAL	X	251	64.235	59.918	37.482	0.00	0.00
ATOM	3807	N	GLY	X	252	64.926	60.002	39.599	0.00	0.00
ATOM	3808	H	GLY	X	252	64.804	59.586	40.511	0.00	0.00
ATOM	3809	CA	GLY	X	252	65.563	61.321	39.388	0.00	0.00
ATOM	3810	HA2	GLY	X	252	66.423	61.310	40.057	0.00	0.00
ATOM	3811	HA3	GLY	X	252	66.002	61.525	38.411	0.00	0.00
ATOM	3812	C	GLY	X	252	64.704	62.554	39.848	0.00	0.00
ATOM	3813	O	GLY	X	252	64.725	63.532	39.136	0.00	0.00
ATOM	3814	N	CYX	X	253	63.908	62.521	40.950	0.00	0.00
ATOM	3815	H	CYX	X	253	63.889	61.616	41.398	0.00	0.00
ATOM	3816	CA	CYX	X	253	63.037	63.630	41.434	0.00	0.00

ATOM	3817	HA	CYX	X	253	63.328	64.588	41.004	0.00	0.00
ATOM	3818	CB	CYX	X	253	61.599	63.218	41.013	0.00	0.00
ATOM	3819	HB2	CYX	X	253	61.351	62.230	41.400	0.00	0.00
ATOM	3820	HB3	CYX	X	253	60.964	63.925	41.548	0.00	0.00
ATOM	3821	SG	CYX	X	253	61.326	63.398	39.229	0.00	0.00
ATOM	3822	C	CYX	X	253	63.161	63.736	42.973	0.00	0.00
ATOM	3823	O	CYX	X	253	63.070	62.701	43.622	0.00	0.00
ATOM	3824	N	PRO	X	254	63.136	64.933	43.604	0.00	0.00
ATOM	3825	CD	PRO	X	254	63.066	65.027	45.017	0.00	0.00
ATOM	3826	HD2	PRO	X	254	64.065	65.066	45.453	0.00	0.00
ATOM	3827	HD3	PRO	X	254	62.405	64.280	45.455	0.00	0.00
ATOM	3828	CG	PRO	X	254	62.260	66.322	45.315	0.00	0.00
ATOM	3829	HG2	PRO	X	254	62.417	66.845	46.258	0.00	0.00
ATOM	3830	HG3	PRO	X	254	61.194	66.164	45.152	0.00	0.00
ATOM	3831	CB	PRO	X	254	62.739	67.230	44.141	0.00	0.00
ATOM	3832	HB2	PRO	X	254	63.632	67.767	44.459	0.00	0.00
ATOM	3833	HB3	PRO	X	254	61.995	67.960	43.822	0.00	0.00
ATOM	3834	CA	PRO	X	254	63.119	66.290	43.010	0.00	0.00
ATOM	3835	HA	PRO	X	254	62.272	66.256	42.325	0.00	0.00
ATOM	3836	C	PRO	X	254	64.465	66.643	42.306	0.00	0.00
ATOM	3837	O	PRO	X	254	65.346	65.832	42.368	0.00	0.00
ATOM	3838	N	PRO	X	255	64.592	67.846	41.683	0.00	0.00
ATOM	3839	CD	PRO	X	255	63.520	68.764	41.338	0.00	0.00
ATOM	3840	HD2	PRO	X	255	63.339	69.257	42.293	0.00	0.00
ATOM	3841	HD3	PRO	X	255	62.679	68.237	40.887	0.00	0.00
ATOM	3842	CG	PRO	X	255	64.140	69.706	40.333	0.00	0.00
ATOM	3843	HG2	PRO	X	255	63.616	70.661	40.369	0.00	0.00
ATOM	3844	HG3	PRO	X	255	64.046	69.244	39.350	0.00	0.00
ATOM	3845	CB	PRO	X	255	65.577	69.812	40.787	0.00	0.00
ATOM	3846	HB2	PRO	X	255	65.538	70.460	41.663	0.00	0.00
ATOM	3847	HB3	PRO	X	255	66.237	70.182	40.003	0.00	0.00
ATOM	3848	CA	PRO	X	255	65.910	68.393	41.272	0.00	0.00
ATOM	3849	HA	PRO	X	255	66.425	67.791	40.523	0.00	0.00
ATOM	3850	C	PRO	X	255	66.908	68.534	42.459	0.00	0.00
ATOM	3851	O	PRO	X	255	66.442	68.624	43.619	0.00	0.00
ATOM	3852	N	GLY	X	256	68.209	68.672	42.155	0.00	0.00
ATOM	3853	H	GLY	X	256	68.536	68.530	41.210	0.00	0.00
ATOM	3854	CA	GLY	X	256	69.269	68.540	43.138	0.00	0.00
ATOM	3855	HA2	GLY	X	256	69.035	67.744	43.844	0.00	0.00
ATOM	3856	HA3	GLY	X	256	70.270	68.339	42.756	0.00	0.00
ATOM	3857	C	GLY	X	256	69.477	69.772	44.026	0.00	0.00
ATOM	3858	O	GLY	X	256	70.382	69.686	44.863	0.00	0.00
ATOM	3859	N	GLY	X	257	68.665	70.827	43.813	0.00	0.00
ATOM	3860	H	GLY	X	257	67.974	70.760	43.079	0.00	0.00
ATOM	3861	CA	GLY	X	257	68.592	72.016	44.685	0.00	0.00
ATOM	3862	HA2	GLY	X	257	69.585	72.258	45.063	0.00	0.00
ATOM	3863	HA3	GLY	X	257	68.247	72.917	44.178	0.00	0.00
ATOM	3864	C	GLY	X	257	67.641	71.788	45.859	0.00	0.00
ATOM	3865	O	GLY	X	257	67.800	72.324	46.907	0.00	0.00
ATOM	3866	N	THR	X	258	66.569	71.030	45.658	0.00	0.00
ATOM	3867	H	THR	X	258	66.433	70.627	44.743	0.00	0.00
ATOM	3868	CA	THR	X	258	65.510	70.599	46.658	0.00	0.00
ATOM	3869	HA	THR	X	258	65.045	69.737	46.179	0.00	0.00
ATOM	3870	CB	THR	X	258	66.014	70.201	48.038	0.00	0.00
ATOM	3871	HB	THR	X	258	65.278	69.665	48.637	0.00	0.00
ATOM	3872	CG2	THR	X	258	67.200	69.279	47.916	0.00	0.00
ATOM	3873	HG21	THR	X	258	67.577	68.893	48.863	0.00	0.00
ATOM	3874	HG22	THR	X	258	68.057	69.720	47.406	0.00	0.00
ATOM	3875	HG23	THR	X	258	66.926	68.477	47.231	0.00	0.00
ATOM	3876	OG1	THR	X	258	66.419	71.274	48.791	0.00	0.00
ATOM	3877	HG1	THR	X	258	66.946	71.886	48.272	0.00	0.00
ATOM	3878	C	THR	X	258	64.349	71.705	46.864	0.00	0.00
ATOM	3879	O	THR	X	258	64.480	72.805	46.392	0.00	0.00
ATOM	3880	N	GLY	X	259	63.281	71.237	47.506	0.00	0.00
ATOM	3881	H	GLY	X	259	63.373	70.299	47.870	0.00	0.00
ATOM	3882	CA	GLY	X	259	62.040	71.960	47.847	0.00	0.00
ATOM	3883	HA2	GLY	X	259	62.207	72.907	48.359	0.00	0.00

ATOM	3884	HA3	GLY	X	259	61.573	72.147	46.880	0.00	0.00
ATOM	3885	C	GLY	X	259	61.185	71.097	48.689	0.00	0.00
ATOM	3886	O	GLY	X	259	60.922	71.424	49.863	0.00	0.00
ATOM	3887	N	GLY	X	260	60.922	69.921	48.197	0.00	0.00
ATOM	3888	H	GLY	X	260	61.117	69.721	47.226	0.00	0.00
ATOM	3889	CA	GLY	X	260	60.285	68.833	48.903	0.00	0.00
ATOM	3890	HA2	GLY	X	260	60.606	67.909	48.422	0.00	0.00
ATOM	3891	HA3	GLY	X	260	60.650	68.730	49.925	0.00	0.00
ATOM	3892	C	GLY	X	260	58.768	68.763	48.839	0.00	0.00
ATOM	3893	O	GLY	X	260	58.172	67.948	49.513	0.00	0.00
ATOM	3894	N	ASN	X	261	58.192	69.671	48.037	0.00	0.00
ATOM	3895	H	ASN	X	261	58.796	70.353	47.602	0.00	0.00
ATOM	3896	CA	ASN	X	261	56.753	69.746	47.994	0.00	0.00
ATOM	3897	HA	ASN	X	261	56.314	69.733	48.992	0.00	0.00
ATOM	3898	CB	ASN	X	261	56.335	71.058	47.296	0.00	0.00
ATOM	3899	HB2	ASN	X	261	56.757	71.888	47.863	0.00	0.00
ATOM	3900	HB3	ASN	X	261	56.716	71.171	46.281	0.00	0.00
ATOM	3901	CG	ASN	X	261	54.831	71.271	47.197	0.00	0.00
ATOM	3902	OD1	ASN	X	261	54.004	70.421	47.529	0.00	0.00
ATOM	3903	ND2	ASN	X	261	54.414	72.456	46.713	0.00	0.00
ATOM	3904	HD21	ASN	X	261	53.426	72.643	46.618	0.00	0.00
ATOM	3905	HD22	ASN	X	261	55.100	73.161	46.486	0.00	0.00
ATOM	3906	C	ASN	X	261	56.157	68.548	47.207	0.00	0.00
ATOM	3907	O	ASN	X	261	56.651	68.146	46.212	0.00	0.00
ATOM	3908	N	ASP	X	262	55.093	67.887	47.737	0.00	0.00
ATOM	3909	H	ASP	X	262	54.697	68.342	48.548	0.00	0.00
ATOM	3910	CA	ASP	X	262	54.327	66.786	47.169	0.00	0.00
ATOM	3911	HA	ASP	X	262	54.917	65.869	47.172	0.00	0.00
ATOM	3912	CB	ASP	X	262	53.033	66.542	47.888	0.00	0.00
ATOM	3913	HB2	ASP	X	262	52.454	67.457	48.011	0.00	0.00
ATOM	3914	HB3	ASP	X	262	52.535	65.780	47.288	0.00	0.00
ATOM	3915	CG	ASP	X	262	53.215	65.864	49.256	0.00	0.00
ATOM	3916	OD1	ASP	X	262	53.881	66.514	50.085	0.00	0.00
ATOM	3917	OD2	ASP	X	262	52.600	64.841	49.532	0.00	0.00
ATOM	3918	C	ASP	X	262	53.945	67.101	45.688	0.00	0.00
ATOM	3919	O	ASP	X	262	54.201	66.248	44.877	0.00	0.00
ATOM	3920	N	THR	X	263	53.587	68.375	45.438	0.00	0.00
ATOM	3921	H	THR	X	263	53.508	68.971	46.249	0.00	0.00
ATOM	3922	CA	THR	X	263	53.359	68.952	44.018	0.00	0.00
ATOM	3923	HA	THR	X	263	52.578	68.394	43.502	0.00	0.00
ATOM	3924	CB	THR	X	263	52.927	70.442	44.100	0.00	0.00
ATOM	3925	HB	THR	X	263	53.815	70.983	44.424	0.00	0.00
ATOM	3926	CG2	THR	X	263	52.376	70.955	42.788	0.00	0.00
ATOM	3927	HG21	THR	X	263	51.937	71.944	42.917	0.00	0.00
ATOM	3928	HG22	THR	X	263	51.618	70.357	42.282	0.00	0.00
ATOM	3929	HG23	THR	X	263	53.246	70.957	42.132	0.00	0.00
ATOM	3930	OG1	THR	X	263	51.851	70.655	45.044	0.00	0.00
ATOM	3931	HG1	THR	X	263	51.014	70.346	44.691	0.00	0.00
ATOM	3932	C	THR	X	263	54.566	68.810	43.091	0.00	0.00
ATOM	3933	O	THR	X	263	54.443	68.260	42.005	0.00	0.00
ATOM	3934	N	GLU	X	264	55.800	69.258	43.471	0.00	0.00
ATOM	3935	H	GLU	X	264	55.792	69.528	44.444	0.00	0.00
ATOM	3936	CA	GLU	X	264	57.099	69.193	42.801	0.00	0.00
ATOM	3937	HA	GLU	X	264	57.096	69.757	41.868	0.00	0.00
ATOM	3938	CB	GLU	X	264	58.142	69.889	43.721	0.00	0.00
ATOM	3939	HB2	GLU	X	264	57.892	70.947	43.788	0.00	0.00
ATOM	3940	HB3	GLU	X	264	58.074	69.419	44.702	0.00	0.00
ATOM	3941	CG	GLU	X	264	59.544	69.788	43.183	0.00	0.00
ATOM	3942	HG2	GLU	X	264	59.757	68.758	42.895	0.00	0.00
ATOM	3943	HG3	GLU	X	264	59.719	70.386	42.289	0.00	0.00
ATOM	3944	CD	GLU	X	264	60.575	70.191	44.197	0.00	0.00
ATOM	3945	OE1	GLU	X	264	60.372	69.923	45.404	0.00	0.00
ATOM	3946	OE2	GLU	X	264	61.563	70.802	43.755	0.00	0.00
ATOM	3947	C	GLU	X	264	57.383	67.751	42.455	0.00	0.00
ATOM	3948	O	GLU	X	264	57.730	67.436	41.360	0.00	0.00
ATOM	3949	N	LEU	X	265	57.329	66.855	43.540	0.00	0.00
ATOM	3950	H	LEU	X	265	57.110	67.177	44.472	0.00	0.00

ATOM	3951	CA	LEU	X	265	57.676	65.474	43.326	0.00	0.00
ATOM	3952	HA	LEU	X	265	58.733	65.460	43.058	0.00	0.00
ATOM	3953	CB	LEU	X	265	57.543	64.732	44.715	0.00	0.00
ATOM	3954	HB2	LEU	X	265	57.882	65.397	45.509	0.00	0.00
ATOM	3955	HB3	LEU	X	265	56.460	64.623	44.778	0.00	0.00
ATOM	3956	CG	LEU	X	265	58.250	63.364	44.765	0.00	0.00
ATOM	3957	HG	LEU	X	265	58.116	62.852	43.812	0.00	0.00
ATOM	3958	CD1	LEU	X	265	59.765	63.545	44.980	0.00	0.00
ATOM	3959	HD11	LEU	X	265	59.940	64.242	45.799	0.00	0.00
ATOM	3960	HD12	LEU	X	265	60.173	63.977	44.066	0.00	0.00
ATOM	3961	HD13	LEU	X	265	60.206	62.587	45.257	0.00	0.00
ATOM	3962	CD2	LEU	X	265	57.677	62.484	45.816	0.00	0.00
ATOM	3963	HD21	LEU	X	265	56.624	62.311	45.598	0.00	0.00
ATOM	3964	HD22	LEU	X	265	58.168	61.518	45.933	0.00	0.00
ATOM	3965	HD23	LEU	X	265	57.887	62.983	46.762	0.00	0.00
ATOM	3966	C	LEU	X	265	56.879	64.752	42.256	0.00	0.00
ATOM	3967	O	LEU	X	265	57.380	64.129	41.375	0.00	0.00
ATOM	3968	N	VAL	X	266	55.528	65.016	42.293	0.00	0.00
ATOM	3969	H	VAL	X	266	55.187	65.530	43.093	0.00	0.00
ATOM	3970	CA	VAL	X	266	54.573	64.424	41.308	0.00	0.00
ATOM	3971	HA	VAL	X	266	54.752	63.355	41.192	0.00	0.00
ATOM	3972	CB	VAL	X	266	53.101	64.533	41.773	0.00	0.00
ATOM	3973	HB	VAL	X	266	52.830	65.587	41.834	0.00	0.00
ATOM	3974	CG1	VAL	X	266	52.200	63.968	40.716	0.00	0.00
ATOM	3975	HG11	VAL	X	266	51.164	63.926	41.050	0.00	0.00
ATOM	3976	HG12	VAL	X	266	52.221	64.591	39.822	0.00	0.00
ATOM	3977	HG13	VAL	X	266	52.432	62.916	40.546	0.00	0.00
ATOM	3978	CG2	VAL	X	266	53.009	63.704	43.031	0.00	0.00
ATOM	3979	HG21	VAL	X	266	53.160	62.645	42.820	0.00	0.00
ATOM	3980	HG22	VAL	X	266	52.015	63.873	43.445	0.00	0.00
ATOM	3981	HG23	VAL	X	266	53.755	63.977	43.778	0.00	0.00
ATOM	3982	C	VAL	X	266	54.748	65.106	39.935	0.00	0.00
ATOM	3983	O	VAL	X	266	55.026	64.368	38.961	0.00	0.00
ATOM	3984	N	ALA	X	267	54.657	66.409	39.830	0.00	0.00
ATOM	3985	H	ALA	X	267	54.528	66.975	40.657	0.00	0.00
ATOM	3986	CA	ALA	X	267	55.086	67.110	38.580	0.00	0.00
ATOM	3987	HA	ALA	X	267	54.356	66.954	37.786	0.00	0.00
ATOM	3988	CB	ALA	X	267	55.063	68.597	38.844	0.00	0.00
ATOM	3989	HB1	ALA	X	267	55.158	69.152	37.911	0.00	0.00
ATOM	3990	HB2	ALA	X	267	55.895	68.940	39.460	0.00	0.00
ATOM	3991	HB3	ALA	X	267	54.184	68.967	39.371	0.00	0.00
ATOM	3992	C	ALA	X	267	56.355	66.598	37.923	0.00	0.00
ATOM	3993	O	ALA	X	267	56.260	66.176	36.782	0.00	0.00
ATOM	3994	N	CYX	X	268	57.468	66.526	38.639	0.00	0.00
ATOM	3995	H	CYX	X	268	57.460	66.871	39.588	0.00	0.00
ATOM	3996	CA	CYX	X	268	58.728	65.950	38.114	0.00	0.00
ATOM	3997	HA	CYX	X	268	59.026	66.581	37.277	0.00	0.00
ATOM	3998	CB	CYX	X	268	59.828	65.916	39.166	0.00	0.00
ATOM	3999	HB2	CYX	X	268	59.932	66.941	39.523	0.00	0.00
ATOM	4000	HB3	CYX	X	268	59.424	65.353	40.008	0.00	0.00
ATOM	4001	SG	CYX	X	268	61.442	65.302	38.715	0.00	0.00
ATOM	4002	C	CYX	X	268	58.471	64.544	37.566	0.00	0.00
ATOM	4003	O	CYX	X	268	58.843	64.300	36.426	0.00	0.00
ATOM	4004	N	LEU	X	269	57.750	63.685	38.251	0.00	0.00
ATOM	4005	H	LEU	X	269	57.423	63.812	39.198	0.00	0.00
ATOM	4006	CA	LEU	X	269	57.456	62.308	37.838	0.00	0.00
ATOM	4007	HA	LEU	X	269	58.376	61.806	37.537	0.00	0.00
ATOM	4008	CB	LEU	X	269	56.927	61.560	39.146	0.00	0.00
ATOM	4009	HB2	LEU	X	269	57.575	62.003	39.903	0.00	0.00
ATOM	4010	HB3	LEU	X	269	55.912	61.875	39.387	0.00	0.00
ATOM	4011	CG	LEU	X	269	57.032	60.043	39.119	0.00	0.00
ATOM	4012	HG	LEU	X	269	56.424	59.677	38.292	0.00	0.00
ATOM	4013	CD1	LEU	X	269	58.489	59.473	39.079	0.00	0.00
ATOM	4014	HD11	LEU	X	269	59.017	60.074	39.819	0.00	0.00
ATOM	4015	HD12	LEU	X	269	58.945	59.585	38.096	0.00	0.00
ATOM	4016	HD13	LEU	X	269	58.535	58.394	39.225	0.00	0.00
ATOM	4017	CD2	LEU	X	269	56.375	59.425	40.420	0.00	0.00

ATOM	4018	HD21	LEU	X	269	57.000	59.730	41.259	0.00	0.00
ATOM	4019	HD22	LEU	X	269	55.361	59.822	40.471	0.00	0.00
ATOM	4020	HD23	LEU	X	269	56.289	58.342	40.334	0.00	0.00
ATOM	4021	C	LEU	X	269	56.440	62.166	36.719	0.00	0.00
ATOM	4022	O	LEU	X	269	56.434	61.154	36.011	0.00	0.00
ATOM	4023	N	ARG	X	270	55.717	63.191	36.316	0.00	0.00
ATOM	4024	H	ARG	X	270	55.739	64.004	36.914	0.00	0.00
ATOM	4025	CA	ARG	X	270	54.837	63.151	35.125	0.00	0.00
ATOM	4026	HA	ARG	X	270	54.157	62.300	35.173	0.00	0.00
ATOM	4027	CB	ARG	X	270	53.810	64.333	35.144	0.00	0.00
ATOM	4028	HB2	ARG	X	270	54.420	65.236	35.157	0.00	0.00
ATOM	4029	HB3	ARG	X	270	53.306	64.401	34.180	0.00	0.00
ATOM	4030	CG	ARG	X	270	52.897	64.430	36.335	0.00	0.00
ATOM	4031	HG2	ARG	X	270	52.454	63.450	36.517	0.00	0.00
ATOM	4032	HG3	ARG	X	270	53.498	64.669	37.213	0.00	0.00
ATOM	4033	CD	ARG	X	270	51.895	65.598	36.089	0.00	0.00
ATOM	4034	HD2	ARG	X	270	52.557	66.406	35.779	0.00	0.00
ATOM	4035	HD3	ARG	X	270	51.173	65.285	35.334	0.00	0.00
ATOM	4036	NE	ARG	X	270	51.117	65.959	37.319	0.00	0.00
ATOM	4037	HE	ARG	X	270	51.099	66.939	37.563	0.00	0.00
ATOM	4038	CZ	ARG	X	270	50.175	65.197	37.841	0.00	0.00
ATOM	4039	NH1	ARG	X	270	49.797	64.050	37.350	0.00	0.00
ATOM	4040	HH11	ARG	X	270	50.093	63.792	36.419	0.00	0.00
ATOM	4041	HH12	ARG	X	270	49.148	63.453	37.843	0.00	0.00
ATOM	4042	NH2	ARG	X	270	49.572	65.575	38.938	0.00	0.00
ATOM	4043	HH21	ARG	X	270	50.015	66.363	39.388	0.00	0.00
ATOM	4044	HH22	ARG	X	270	48.902	64.987	39.414	0.00	0.00
ATOM	4045	C	ARG	X	270	55.515	63.188	33.841	0.00	0.00
ATOM	4046	O	ARG	X	270	55.077	62.652	32.820	0.00	0.00
ATOM	4047	N	THR	X	271	56.693	63.813	33.817	0.00	0.00
ATOM	4048	H	THR	X	271	57.037	64.309	34.626	0.00	0.00
ATOM	4049	CA	THR	X	271	57.519	63.982	32.628	0.00	0.00
ATOM	4050	HA	THR	X	271	56.956	64.522	31.867	0.00	0.00
ATOM	4051	CB	THR	X	271	58.826	64.756	32.970	0.00	0.00
ATOM	4052	HB	THR	X	271	59.396	64.731	32.041	0.00	0.00
ATOM	4053	CG2	THR	X	271	58.566	66.167	33.523	0.00	0.00
ATOM	4054	HG21	THR	X	271	57.841	66.717	32.923	0.00	0.00
ATOM	4055	HG22	THR	X	271	59.534	66.638	33.692	0.00	0.00
ATOM	4056	HG23	THR	X	271	58.108	66.047	34.505	0.00	0.00
ATOM	4057	OG1	THR	X	271	59.673	64.120	33.932	0.00	0.00
ATOM	4058	HG1	THR	X	271	59.212	64.269	34.761	0.00	0.00
ATOM	4059	C	THR	X	271	57.975	62.635	32.017	0.00	0.00
ATOM	4060	O	THR	X	271	58.315	62.593	30.846	0.00	0.00
ATOM	4061	N	ARG	X	272	58.206	61.584	32.786	0.00	0.00
ATOM	4062	H	ARG	X	272	57.969	61.691	33.762	0.00	0.00
ATOM	4063	CA	ARG	X	272	58.889	60.335	32.357	0.00	0.00
ATOM	4064	HA	ARG	X	272	59.824	60.609	31.869	0.00	0.00
ATOM	4065	CB	ARG	X	272	59.218	59.460	33.587	0.00	0.00
ATOM	4066	HB2	ARG	X	272	58.310	59.024	34.005	0.00	0.00
ATOM	4067	HB3	ARG	X	272	59.898	58.707	33.189	0.00	0.00
ATOM	4068	CG	ARG	X	272	59.994	60.380	34.671	0.00	0.00
ATOM	4069	HG2	ARG	X	272	59.370	61.141	35.139	0.00	0.00
ATOM	4070	HG3	ARG	X	272	60.213	59.638	35.439	0.00	0.00
ATOM	4071	CD	ARG	X	272	61.419	60.888	34.167	0.00	0.00
ATOM	4072	HD2	ARG	X	272	61.892	60.093	33.591	0.00	0.00
ATOM	4073	HD3	ARG	X	272	61.396	61.709	33.451	0.00	0.00
ATOM	4074	NE	ARG	X	272	62.354	61.211	35.294	0.00	0.00
ATOM	4075	HE	ARG	X	272	62.865	60.454	35.723	0.00	0.00
ATOM	4076	CZ	ARG	X	272	62.626	62.412	35.778	0.00	0.00
ATOM	4077	NH1	ARG	X	272	62.024	63.538	35.382	0.00	0.00
ATOM	4078	HH11	ARG	X	272	61.201	63.526	34.797	0.00	0.00
ATOM	4079	HH12	ARG	X	272	62.354	64.428	35.727	0.00	0.00
ATOM	4080	NH2	ARG	X	272	63.532	62.496	36.703	0.00	0.00
ATOM	4081	HH21	ARG	X	272	64.075	61.698	37.001	0.00	0.00
ATOM	4082	HH22	ARG	X	272	63.684	63.359	37.206	0.00	0.00
ATOM	4083	C	ARG	X	272	58.057	59.434	31.467	0.00	0.00
ATOM	4084	O	ARG	X	272	56.839	59.364	31.699	0.00	0.00

ATOM	4085	N	PRO	X	273	58.599	58.723	30.448	0.00	0.00
ATOM	4086	CD	PRO	X	273	59.869	59.090	29.848	0.00	0.00
ATOM	4087	HD2	PRO	X	273	60.687	58.577	30.353	0.00	0.00
ATOM	4088	HD3	PRO	X	273	60.069	60.161	29.831	0.00	0.00
ATOM	4089	CG	PRO	X	273	59.832	58.384	28.491	0.00	0.00
ATOM	4090	HG2	PRO	X	273	60.845	58.089	28.216	0.00	0.00
ATOM	4091	HG3	PRO	X	273	59.415	59.037	27.725	0.00	0.00
ATOM	4092	CB	PRO	X	273	58.880	57.162	28.601	0.00	0.00
ATOM	4093	HB2	PRO	X	273	59.478	56.290	28.864	0.00	0.00
ATOM	4094	HB3	PRO	X	273	58.272	56.925	27.728	0.00	0.00
ATOM	4095	CA	PRO	X	273	57.933	57.647	29.731	0.00	0.00
ATOM	4096	HA	PRO	X	273	57.011	58.010	29.277	0.00	0.00
ATOM	4097	C	PRO	X	273	57.612	56.513	30.678	0.00	0.00
ATOM	4098	O	PRO	X	273	58.519	56.018	31.442	0.00	0.00
ATOM	4099	N	ALA	X	274	56.376	55.941	30.595	0.00	0.00
ATOM	4100	H	ALA	X	274	55.856	56.242	29.783	0.00	0.00
ATOM	4101	CA	ALA	X	274	55.802	54.890	31.489	0.00	0.00
ATOM	4102	HA	ALA	X	274	55.468	55.352	32.418	0.00	0.00
ATOM	4103	CB	ALA	X	274	54.646	54.274	30.643	0.00	0.00
ATOM	4104	HB1	ALA	X	274	54.990	53.894	29.681	0.00	0.00
ATOM	4105	HB2	ALA	X	274	53.817	54.977	30.556	0.00	0.00
ATOM	4106	HB3	ALA	X	274	54.189	53.523	31.287	0.00	0.00
ATOM	4107	C	ALA	X	274	56.787	53.702	31.821	0.00	0.00
ATOM	4108	O	ALA	X	274	56.865	53.290	32.946	0.00	0.00
ATOM	4109	N	GLN	X	275	57.551	53.246	30.865	0.00	0.00
ATOM	4110	H	GLN	X	275	57.413	53.640	29.946	0.00	0.00
ATOM	4111	CA	GLN	X	275	58.566	52.148	30.996	0.00	0.00
ATOM	4112	HA	GLN	X	275	58.037	51.238	31.279	0.00	0.00
ATOM	4113	CB	GLN	X	275	59.305	51.857	29.678	0.00	0.00
ATOM	4114	HB2	GLN	X	275	58.578	51.906	28.867	0.00	0.00
ATOM	4115	HB3	GLN	X	275	60.095	52.603	29.594	0.00	0.00
ATOM	4116	CG	GLN	X	275	59.919	50.416	29.661	0.00	0.00
ATOM	4117	HG2	GLN	X	275	60.717	50.354	30.401	0.00	0.00
ATOM	4118	HG3	GLN	X	275	59.110	49.691	29.743	0.00	0.00
ATOM	4119	CD	GLN	X	275	60.642	50.246	28.359	0.00	0.00
ATOM	4120	OE1	GLN	X	275	61.265	51.177	27.854	0.00	0.00
ATOM	4121	NE2	GLN	X	275	60.670	49.083	27.714	0.00	0.00
ATOM	4122	HE21	GLN	X	275	61.200	49.045	26.855	0.00	0.00
ATOM	4123	HE22	GLN	X	275	60.134	48.284	28.020	0.00	0.00
ATOM	4124	C	GLN	X	275	59.594	52.464	32.081	0.00	0.00
ATOM	4125	O	GLN	X	275	59.943	51.582	32.852	0.00	0.00
ATOM	4126	N	VAL	X	276	60.010	53.748	32.272	0.00	0.00
ATOM	4127	H	VAL	X	276	59.621	54.504	31.727	0.00	0.00
ATOM	4128	CA	VAL	X	276	61.045	54.177	33.249	0.00	0.00
ATOM	4129	HA	VAL	X	276	61.927	53.579	33.022	0.00	0.00
ATOM	4130	CB	VAL	X	276	61.297	55.735	33.086	0.00	0.00
ATOM	4131	HB	VAL	X	276	60.345	56.234	33.268	0.00	0.00
ATOM	4132	CG1	VAL	X	276	62.377	56.291	33.982	0.00	0.00
ATOM	4133	HG11	VAL	X	276	63.297	55.713	34.065	0.00	0.00
ATOM	4134	HG12	VAL	X	276	62.564	57.329	33.705	0.00	0.00
ATOM	4135	HG13	VAL	X	276	62.072	56.328	35.028	0.00	0.00
ATOM	4136	CG2	VAL	X	276	61.777	56.017	31.601	0.00	0.00
ATOM	4137	HG21	VAL	X	276	62.754	55.539	31.535	0.00	0.00
ATOM	4138	HG22	VAL	X	276	62.064	57.067	31.538	0.00	0.00
ATOM	4139	HG23	VAL	X	276	61.062	55.651	30.864	0.00	0.00
ATOM	4140	C	VAL	X	276	60.598	53.944	34.673	0.00	0.00
ATOM	4141	O	VAL	X	276	61.375	53.601	35.575	0.00	0.00
ATOM	4142	N	LEU	X	277	59.289	54.035	34.903	0.00	0.00
ATOM	4143	H	LEU	X	277	58.594	54.222	34.194	0.00	0.00
ATOM	4144	CA	LEU	X	277	58.694	53.552	36.166	0.00	0.00
ATOM	4145	HA	LEU	X	277	59.229	53.990	37.009	0.00	0.00
ATOM	4146	CB	LEU	X	277	57.196	54.052	36.407	0.00	0.00
ATOM	4147	HB2	LEU	X	277	56.559	53.510	35.709	0.00	0.00
ATOM	4148	HB3	LEU	X	277	56.812	53.831	37.403	0.00	0.00
ATOM	4149	CG	LEU	X	277	56.965	55.555	36.116	0.00	0.00
ATOM	4150	HG	LEU	X	277	57.236	55.600	35.061	0.00	0.00
ATOM	4151	CD1	LEU	X	277	55.513	55.950	36.321	0.00	0.00

ATOM	4152	HD11	LEU	X	277	55.246	55.629	37.328	0.00	0.00
ATOM	4153	HD12	LEU	X	277	54.893	55.362	35.644	0.00	0.00
ATOM	4154	HD13	LEU	X	277	55.326	57.005	36.126	0.00	0.00
ATOM	4155	CD2	LEU	X	277	57.923	56.500	36.915	0.00	0.00
ATOM	4156	HD21	LEU	X	277	57.558	56.409	37.938	0.00	0.00
ATOM	4157	HD22	LEU	X	277	58.997	56.324	36.854	0.00	0.00
ATOM	4158	HD23	LEU	X	277	57.739	57.485	36.486	0.00	0.00
ATOM	4159	C	LEU	X	277	58.805	52.081	36.368	0.00	0.00
ATOM	4160	O	LEU	X	277	59.279	51.627	37.408	0.00	0.00
ATOM	4161	N	VAL	X	278	58.452	51.298	35.307	0.00	0.00
ATOM	4162	H	VAL	X	278	58.040	51.802	34.535	0.00	0.00
ATOM	4163	CA	VAL	X	278	58.321	49.866	35.479	0.00	0.00
ATOM	4164	HA	VAL	X	278	57.676	49.738	36.348	0.00	0.00
ATOM	4165	CB	VAL	X	278	57.586	49.255	34.252	0.00	0.00
ATOM	4166	HB	VAL	X	278	58.007	49.649	33.327	0.00	0.00
ATOM	4167	CG1	VAL	X	278	57.625	47.739	34.229	0.00	0.00
ATOM	4168	HG11	VAL	X	278	58.598	47.315	33.984	0.00	0.00
ATOM	4169	HG12	VAL	X	278	57.288	47.320	35.177	0.00	0.00
ATOM	4170	HG13	VAL	X	278	56.911	47.333	33.512	0.00	0.00
ATOM	4171	CG2	VAL	X	278	56.106	49.728	34.244	0.00	0.00
ATOM	4172	HG21	VAL	X	278	56.159	50.757	33.889	0.00	0.00
ATOM	4173	HG22	VAL	X	278	55.587	49.563	35.189	0.00	0.00
ATOM	4174	HG23	VAL	X	278	55.605	49.262	33.396	0.00	0.00
ATOM	4175	C	VAL	X	278	59.644	49.189	35.618	0.00	0.00
ATOM	4176	O	VAL	X	278	59.700	48.121	36.223	0.00	0.00
ATOM	4177	N	ASN	X	279	60.730	49.848	35.165	0.00	0.00
ATOM	4178	H	ASN	X	279	60.635	50.589	34.485	0.00	0.00
ATOM	4179	CA	ASN	X	279	62.082	49.300	35.417	0.00	0.00
ATOM	4180	HA	ASN	X	279	62.075	48.300	34.983	0.00	0.00
ATOM	4181	CB	ASN	X	279	63.056	50.299	34.737	0.00	0.00
ATOM	4182	HB2	ASN	X	279	62.718	51.332	34.824	0.00	0.00
ATOM	4183	HB3	ASN	X	279	64.037	50.200	35.201	0.00	0.00
ATOM	4184	CG	ASN	X	279	63.345	49.970	33.209	0.00	0.00
ATOM	4185	OD1	ASN	X	279	64.191	49.189	32.861	0.00	0.00
ATOM	4186	ND2	ASN	X	279	62.638	50.570	32.279	0.00	0.00
ATOM	4187	HD21	ASN	X	279	62.724	50.336	31.300	0.00	0.00
ATOM	4188	HD22	ASN	X	279	61.789	51.023	32.586	0.00	0.00
ATOM	4189	C	ASN	X	279	62.489	49.292	36.899	0.00	0.00
ATOM	4190	O	ASN	X	279	63.213	48.453	37.370	0.00	0.00
ATOM	4191	N	HIE	X	280	61.903	50.251	37.662	0.00	0.00
ATOM	4192	H	HIE	X	280	61.399	50.990	37.191	0.00	0.00
ATOM	4193	CA	HIE	X	280	62.296	50.489	39.086	0.00	0.00
ATOM	4194	HA	HIE	X	280	63.144	49.888	39.416	0.00	0.00
ATOM	4195	CB	HIE	X	280	62.696	51.993	39.095	0.00	0.00
ATOM	4196	HB2	HIE	X	280	61.916	52.595	38.630	0.00	0.00
ATOM	4197	HB3	HIE	X	280	62.735	52.190	40.167	0.00	0.00
ATOM	4198	CG	HIE	X	280	63.993	52.207	38.307	0.00	0.00
ATOM	4199	ND1	HIE	X	280	64.168	52.739	37.027	0.00	0.00
ATOM	4200	CE1	HIE	X	280	65.522	52.816	36.814	0.00	0.00
ATOM	4201	HE1	HIE	X	280	66.009	53.234	35.945	0.00	0.00
ATOM	4202	NE2	HIE	X	280	66.149	52.254	37.828	0.00	0.00
ATOM	4203	HE2	HIE	X	280	67.149	52.181	37.946	0.00	0.00
ATOM	4204	CD2	HIE	X	280	65.232	51.850	38.767	0.00	0.00
ATOM	4205	HD2	HIE	X	280	65.446	51.426	39.738	0.00	0.00
ATOM	4206	C	HIE	X	280	61.151	50.147	40.056	0.00	0.00
ATOM	4207	O	HIE	X	280	61.399	50.121	41.247	0.00	0.00
ATOM	4208	N	GLU	X	281	59.902	49.841	39.624	0.00	0.00
ATOM	4209	H	GLU	X	281	59.666	49.909	38.645	0.00	0.00
ATOM	4210	CA	GLU	X	281	58.772	49.675	40.607	0.00	0.00
ATOM	4211	HA	GLU	X	281	58.599	50.583	41.185	0.00	0.00
ATOM	4212	CB	GLU	X	281	57.508	49.470	39.783	0.00	0.00
ATOM	4213	HB2	GLU	X	281	57.437	50.336	39.125	0.00	0.00
ATOM	4214	HB3	GLU	X	281	57.545	48.527	39.237	0.00	0.00
ATOM	4215	CG	GLU	X	281	56.300	49.365	40.754	0.00	0.00
ATOM	4216	HG2	GLU	X	281	56.320	48.359	41.174	0.00	0.00
ATOM	4217	HG3	GLU	X	281	56.437	50.096	41.550	0.00	0.00
ATOM	4218	CD	GLU	X	281	54.919	49.626	40.226	0.00	0.00

ATOM	4219	OE1	GLU	X	281	54.785	50.446	39.276	0.00	0.00
ATOM	4220	OE2	GLU	X	281	53.936	49.016	40.715	0.00	0.00
ATOM	4221	C	GLU	X	281	58.967	48.545	41.625	0.00	0.00
ATOM	4222	O	GLU	X	281	58.651	48.774	42.845	0.00	0.00
ATOM	4223	N	TRP	X	282	59.538	47.368	41.327	0.00	0.00
ATOM	4224	H	TRP	X	282	59.703	47.101	40.367	0.00	0.00
ATOM	4225	CA	TRP	X	282	59.894	46.312	42.358	0.00	0.00
ATOM	4226	HA	TRP	X	282	59.003	46.018	42.914	0.00	0.00
ATOM	4227	CB	TRP	X	282	60.433	45.068	41.621	0.00	0.00
ATOM	4228	HB2	TRP	X	282	61.297	45.351	41.020	0.00	0.00
ATOM	4229	HB3	TRP	X	282	60.866	44.386	42.353	0.00	0.00
ATOM	4230	CG	TRP	X	282	59.320	44.331	40.811	0.00	0.00
ATOM	4231	CD1	TRP	X	282	59.247	44.218	39.514	0.00	0.00
ATOM	4232	HD1	TRP	X	282	59.950	44.480	38.738	0.00	0.00
ATOM	4233	NE1	TRP	X	282	58.114	43.440	39.127	0.00	0.00
ATOM	4234	HE1	TRP	X	282	57.904	43.153	38.182	0.00	0.00
ATOM	4235	CE2	TRP	X	282	57.402	43.151	40.225	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	56.136	42.600	40.351	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	55.649	42.062	39.551	0.00	0.00
ATOM	4238	CH2	TRP	X	282	55.621	42.433	41.632	0.00	0.00
ATOM	4239	HH2	TRP	X	282	54.714	41.856	41.732	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	56.229	42.957	42.774	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	55.848	42.687	43.748	0.00	0.00
ATOM	4242	CE3	TRP	X	282	57.443	43.625	42.645	0.00	0.00
ATOM	4243	HE3	TRP	X	282	58.013	43.975	43.493	0.00	0.00
ATOM	4244	CD2	TRP	X	282	58.086	43.741	41.376	0.00	0.00
ATOM	4245	C	TRP	X	282	60.933	46.821	43.345	0.00	0.00
ATOM	4246	O	TRP	X	282	60.987	46.353	44.430	0.00	0.00
ATOM	4247	N	HIE	X	283	61.756	47.820	43.055	0.00	0.00
ATOM	4248	H	HIE	X	283	61.598	48.322	42.193	0.00	0.00
ATOM	4249	CA	HIE	X	283	62.900	48.239	43.900	0.00	0.00
ATOM	4250	HA	HIE	X	283	63.531	47.410	44.221	0.00	0.00
ATOM	4251	CB	HIE	X	283	63.818	49.140	43.083	0.00	0.00
ATOM	4252	HB2	HIE	X	283	63.284	50.059	42.842	0.00	0.00
ATOM	4253	HB3	HIE	X	283	64.642	49.311	43.776	0.00	0.00
ATOM	4254	CG	HIE	X	283	64.428	48.610	41.879	0.00	0.00
ATOM	4255	ND1	HIE	X	283	63.874	47.677	41.027	0.00	0.00
ATOM	4256	CE1	HIE	X	283	64.750	47.485	40.053	0.00	0.00
ATOM	4257	HE1	HIE	X	283	64.574	46.833	39.210	0.00	0.00
ATOM	4258	NE2	HIE	X	283	65.834	48.214	40.243	0.00	0.00
ATOM	4259	HE2	HIE	X	283	66.486	48.441	39.506	0.00	0.00
ATOM	4260	CD2	HIE	X	283	65.588	48.983	41.378	0.00	0.00
ATOM	4261	HD2	HIE	X	283	66.253	49.757	41.730	0.00	0.00
ATOM	4262	C	HIE	X	283	62.380	49.011	45.196	0.00	0.00
ATOM	4263	O	HIE	X	283	63.166	49.239	46.082	0.00	0.00
ATOM	4264	N	VAL	X	284	61.096	49.356	45.338	0.00	0.00
ATOM	4265	H	VAL	X	284	60.504	49.099	44.561	0.00	0.00
ATOM	4266	CA	VAL	X	284	60.540	50.110	46.456	0.00	0.00
ATOM	4267	HA	VAL	X	284	61.226	50.830	46.902	0.00	0.00
ATOM	4268	CB	VAL	X	284	59.319	51.026	46.056	0.00	0.00
ATOM	4269	HB	VAL	X	284	59.116	51.750	46.845	0.00	0.00
ATOM	4270	CG1	VAL	X	284	59.565	51.879	44.805	0.00	0.00
ATOM	4271	HG11	VAL	X	284	59.660	51.266	43.909	0.00	0.00
ATOM	4272	HG12	VAL	X	284	58.780	52.627	44.687	0.00	0.00
ATOM	4273	HG13	VAL	X	284	60.549	52.297	45.017	0.00	0.00
ATOM	4274	CG2	VAL	X	284	58.001	50.251	45.746	0.00	0.00
ATOM	4275	HG21	VAL	X	284	58.116	49.524	44.942	0.00	0.00
ATOM	4276	HG22	VAL	X	284	57.283	50.994	45.397	0.00	0.00
ATOM	4277	HG23	VAL	X	284	57.581	49.707	46.591	0.00	0.00
ATOM	4278	C	VAL	X	284	60.054	49.124	47.545	0.00	0.00
ATOM	4279	O	VAL	X	284	59.792	49.591	48.632	0.00	0.00
ATOM	4280	N	LEU	X	285	59.989	47.808	47.369	0.00	0.00
ATOM	4281	H	LEU	X	285	60.293	47.496	46.458	0.00	0.00
ATOM	4282	CA	LEU	X	285	59.301	46.857	48.208	0.00	0.00
ATOM	4283	HA	LEU	X	285	58.342	47.256	48.539	0.00	0.00
ATOM	4284	CB	LEU	X	285	58.968	45.588	47.329	0.00	0.00
ATOM	4285	HB2	LEU	X	285	58.417	45.894	46.440	0.00	0.00

ATOM	4286	HB3	LEU	X	285	59.929	45.168	47.033	0.00	0.00
ATOM	4287	CG	LEU	X	285	58.162	44.526	48.002	0.00	0.00
ATOM	4288	HG	LEU	X	285	58.641	44.207	48.928	0.00	0.00
ATOM	4289	CD1	LEU	X	285	56.715	45.011	48.318	0.00	0.00
ATOM	4290	HD11	LEU	X	285	56.219	45.246	47.377	0.00	0.00
ATOM	4291	HD12	LEU	X	285	56.670	45.891	48.959	0.00	0.00
ATOM	4292	HD13	LEU	X	285	56.186	44.262	48.907	0.00	0.00
ATOM	4293	CD2	LEU	X	285	58.066	43.258	47.179	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.504	43.390	46.254	0.00	0.00
ATOM	4295	HD22	LEU	X	285	59.041	42.841	46.925	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.458	42.489	47.655	0.00	0.00
ATOM	4297	C	LEU	X	285	60.284	46.471	49.377	0.00	0.00
ATOM	4298	O	LEU	X	285	61.429	46.147	49.061	0.00	0.00
ATOM	4299	N	PRO	X	286	59.888	46.447	50.658	0.00	0.00
ATOM	4300	CD	PRO	X	286	58.660	47.035	51.133	0.00	0.00
ATOM	4301	HD2	PRO	X	286	57.819	46.351	51.019	0.00	0.00
ATOM	4302	HD3	PRO	X	286	58.405	47.986	50.667	0.00	0.00
ATOM	4303	CG	PRO	X	286	58.794	47.198	52.616	0.00	0.00
ATOM	4304	HG2	PRO	X	286	57.830	47.193	53.125	0.00	0.00
ATOM	4305	HG3	PRO	X	286	59.188	48.192	52.829	0.00	0.00
ATOM	4306	CB	PRO	X	286	59.720	46.013	52.975	0.00	0.00
ATOM	4307	HB2	PRO	X	286	59.191	45.072	53.129	0.00	0.00
ATOM	4308	HB3	PRO	X	286	60.234	46.203	53.917	0.00	0.00
ATOM	4309	CA	PRO	X	286	60.661	45.907	51.816	0.00	0.00
ATOM	4310	HA	PRO	X	286	61.485	46.619	51.858	0.00	0.00
ATOM	4311	C	PRO	X	286	61.202	44.438	51.571	0.00	0.00
ATOM	4312	O	PRO	X	286	60.484	43.536	51.186	0.00	0.00
ATOM	4313	N	GLN	X	287	62.500	44.292	51.629	0.00	0.00
ATOM	4314	H	GLN	X	287	63.038	45.063	51.997	0.00	0.00
ATOM	4315	CA	GLN	X	287	63.214	43.111	51.135	0.00	0.00
ATOM	4316	HA	GLN	X	287	62.642	42.759	50.277	0.00	0.00
ATOM	4317	CB	GLN	X	287	64.665	43.398	50.803	0.00	0.00
ATOM	4318	HB2	GLN	X	287	65.172	43.685	51.724	0.00	0.00
ATOM	4319	HB3	GLN	X	287	65.104	42.452	50.486	0.00	0.00
ATOM	4320	CG	GLN	X	287	64.741	44.468	49.640	0.00	0.00
ATOM	4321	HG2	GLN	X	287	64.311	44.040	48.734	0.00	0.00
ATOM	4322	HG3	GLN	X	287	64.258	45.425	49.834	0.00	0.00
ATOM	4323	CD	GLN	X	287	66.184	44.754	49.259	0.00	0.00
ATOM	4324	OE1	GLN	X	287	67.185	44.326	49.887	0.00	0.00
ATOM	4325	NE2	GLN	X	287	66.378	45.353	48.131	0.00	0.00
ATOM	4326	HE21	GLN	X	287	67.337	45.578	47.908	0.00	0.00
ATOM	4327	HE22	GLN	X	287	65.648	45.683	47.515	0.00	0.00
ATOM	4328	C	GLN	X	287	63.086	41.883	52.104	0.00	0.00
ATOM	4329	O	GLN	X	287	63.008	42.040	53.347	0.00	0.00
ATOM	4330	N	GLU	X	288	63.040	40.715	51.458	0.00	0.00
ATOM	4331	H	GLU	X	288	63.067	40.725	50.448	0.00	0.00
ATOM	4332	CA	GLU	X	288	62.831	39.413	52.045	0.00	0.00
ATOM	4333	HA	GLU	X	288	63.064	38.637	51.316	0.00	0.00
ATOM	4334	CB	GLU	X	288	63.593	39.052	53.318	0.00	0.00
ATOM	4335	HB2	GLU	X	288	63.389	39.755	54.126	0.00	0.00
ATOM	4336	HB3	GLU	X	288	63.276	38.084	53.706	0.00	0.00
ATOM	4337	CG	GLU	X	288	65.114	39.090	53.031	0.00	0.00
ATOM	4338	HG2	GLU	X	288	65.203	39.072	51.945	0.00	0.00
ATOM	4339	HG3	GLU	X	288	65.565	39.974	53.481	0.00	0.00
ATOM	4340	CD	GLU	X	288	65.804	37.902	53.597	0.00	0.00
ATOM	4341	OE1	GLU	X	288	66.176	36.973	52.875	0.00	0.00
ATOM	4342	OE2	GLU	X	288	65.846	37.789	54.854	0.00	0.00
ATOM	4343	C	GLU	X	288	61.335	39.211	52.344	0.00	0.00
ATOM	4344	O	GLU	X	288	60.879	39.110	53.482	0.00	0.00
ATOM	4345	N	SER	X	289	60.621	38.990	51.262	0.00	0.00
ATOM	4346	H	SER	X	289	61.025	39.055	50.338	0.00	0.00
ATOM	4347	CA	SER	X	289	59.140	38.658	51.205	0.00	0.00
ATOM	4348	HA	SER	X	289	58.888	37.927	51.973	0.00	0.00
ATOM	4349	CB	SER	X	289	58.289	39.952	51.556	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.295	39.538	51.724	0.00	0.00
ATOM	4351	HB3	SER	X	289	58.585	40.373	52.517	0.00	0.00
ATOM	4352	OG	SER	X	289	58.250	40.937	50.590	0.00	0.00

ATOM	4353	HG	SER	X	289	59.168	41.158	50.418	0.00	0.00
ATOM	4354	C	SER	X	289	58.679	37.958	49.911	0.00	0.00
ATOM	4355	O	SER	X	289	59.237	38.189	48.855	0.00	0.00
ATOM	4356	N	VAL	X	290	57.531	37.258	49.964	0.00	0.00
ATOM	4357	H	VAL	X	290	57.194	36.900	50.846	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.759	36.744	48.813	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.947	37.381	47.949	0.00	0.00
ATOM	4360	CB	VAL	X	290	57.146	35.266	48.507	0.00	0.00
ATOM	4361	HB	VAL	X	290	58.230	35.193	48.596	0.00	0.00
ATOM	4362	CG1	VAL	X	290	56.530	34.330	49.551	0.00	0.00
ATOM	4363	HG11	VAL	X	290	56.805	33.287	49.393	0.00	0.00
ATOM	4364	HG12	VAL	X	290	56.890	34.537	50.559	0.00	0.00
ATOM	4365	HG13	VAL	X	290	55.441	34.330	49.525	0.00	0.00
ATOM	4366	CG2	VAL	X	290	56.741	34.836	47.099	0.00	0.00
ATOM	4367	HG21	VAL	X	290	57.281	35.442	46.371	0.00	0.00
ATOM	4368	HG22	VAL	X	290	55.679	34.917	46.867	0.00	0.00
ATOM	4369	HG23	VAL	X	290	57.092	33.832	46.858	0.00	0.00
ATOM	4370	C	VAL	X	290	55.261	36.945	49.128	0.00	0.00
ATOM	4371	O	VAL	X	290	54.866	37.058	50.290	0.00	0.00
ATOM	4372	N	PHE	X	291	54.456	37.063	48.056	0.00	0.00
ATOM	4373	H	PHE	X	291	54.792	36.914	47.115	0.00	0.00
ATOM	4374	CA	PHE	X	291	53.019	37.457	48.124	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.676	37.473	47.089	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.267	36.266	48.806	0.00	0.00
ATOM	4377	HB2	PHE	X	291	52.640	35.263	48.598	0.00	0.00
ATOM	4378	HB3	PHE	X	291	52.333	36.461	49.876	0.00	0.00
ATOM	4379	CG	PHE	X	291	50.771	36.121	48.489	0.00	0.00
ATOM	4380	CD1	PHE	X	291	49.970	37.178	48.090	0.00	0.00
ATOM	4381	HD1	PHE	X	291	50.376	38.155	47.872	0.00	0.00
ATOM	4382	CE1	PHE	X	291	48.664	37.075	47.700	0.00	0.00
ATOM	4383	HE1	PHE	X	291	48.056	37.900	47.359	0.00	0.00
ATOM	4384	CZ	PHE	X	291	48.013	35.833	47.763	0.00	0.00
ATOM	4385	HZ	PHE	X	291	46.988	35.632	47.485	0.00	0.00
ATOM	4386	CE2	PHE	X	291	48.767	34.739	48.138	0.00	0.00
ATOM	4387	HE2	PHE	X	291	48.333	33.752	48.213	0.00	0.00
ATOM	4388	CD2	PHE	X	291	50.127	34.851	48.501	0.00	0.00
ATOM	4389	HD2	PHE	X	291	50.652	33.930	48.702	0.00	0.00
ATOM	4390	C	PHE	X	291	52.851	38.869	48.759	0.00	0.00
ATOM	4391	O	PHE	X	291	51.999	39.058	49.613	0.00	0.00
ATOM	4392	N	ARG	X	292	53.704	39.758	48.351	0.00	0.00
ATOM	4393	H	ARG	X	292	54.418	39.483	47.692	0.00	0.00
ATOM	4394	CA	ARG	X	292	53.680	41.214	48.613	0.00	0.00
ATOM	4395	HA	ARG	X	292	52.660	41.509	48.862	0.00	0.00
ATOM	4396	CB	ARG	X	292	54.610	41.616	49.798	0.00	0.00
ATOM	4397	HB2	ARG	X	292	55.667	41.560	49.539	0.00	0.00
ATOM	4398	HB3	ARG	X	292	54.428	42.645	50.107	0.00	0.00
ATOM	4399	CG	ARG	X	292	54.317	40.833	51.051	0.00	0.00
ATOM	4400	HG2	ARG	X	292	54.609	39.824	50.757	0.00	0.00
ATOM	4401	HG3	ARG	X	292	54.994	41.111	51.859	0.00	0.00
ATOM	4402	CD	ARG	X	292	52.934	40.995	51.761	0.00	0.00
ATOM	4403	HD2	ARG	X	292	53.031	41.783	52.507	0.00	0.00
ATOM	4404	HD3	ARG	X	292	52.237	41.450	51.058	0.00	0.00
ATOM	4405	NE	ARG	X	292	52.305	39.808	52.369	0.00	0.00
ATOM	4406	HE	ARG	X	292	52.114	39.028	51.756	0.00	0.00
ATOM	4407	CZ	ARG	X	292	52.142	39.624	53.662	0.00	0.00
ATOM	4408	NH1	ARG	X	292	52.423	40.530	54.587	0.00	0.00
ATOM	4409	HH11	ARG	X	292	52.615	41.485	54.318	0.00	0.00
ATOM	4410	HH12	ARG	X	292	52.504	40.226	55.547	0.00	0.00
ATOM	4411	NH2	ARG	X	292	51.677	38.442	54.058	0.00	0.00
ATOM	4412	HH21	ARG	X	292	51.405	37.838	53.295	0.00	0.00
ATOM	4413	HH22	ARG	X	292	51.468	38.281	55.033	0.00	0.00
ATOM	4414	C	ARG	X	292	54.134	42.051	47.383	0.00	0.00
ATOM	4415	O	ARG	X	292	55.064	41.621	46.742	0.00	0.00
ATOM	4416	N	PHE	X	293	53.440	43.188	47.205	0.00	0.00
ATOM	4417	H	PHE	X	293	52.676	43.423	47.823	0.00	0.00
ATOM	4418	CA	PHE	X	293	53.515	43.910	45.957	0.00	0.00
ATOM	4419	HA	PHE	X	293	54.201	43.446	45.249	0.00	0.00

ATOM	4420	CB	PHE	X	293	52.182	43.730	45.207	0.00	0.00
ATOM	4421	HB2	PHE	X	293	51.390	44.315	45.675	0.00	0.00
ATOM	4422	HB3	PHE	X	293	52.299	43.959	44.147	0.00	0.00
ATOM	4423	CG	PHE	X	293	51.716	42.251	45.202	0.00	0.00
ATOM	4424	CD1	PHE	X	293	52.532	41.243	44.579	0.00	0.00
ATOM	4425	HD1	PHE	X	293	53.404	41.582	44.039	0.00	0.00
ATOM	4426	CE1	PHE	X	293	52.139	39.869	44.571	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.768	39.122	44.109	0.00	0.00
ATOM	4428	CZ	PHE	X	293	50.966	39.477	45.212	0.00	0.00
ATOM	4429	HZ	PHE	X	293	50.700	38.430	45.200	0.00	0.00
ATOM	4430	CE2	PHE	X	293	50.100	40.501	45.805	0.00	0.00
ATOM	4431	HE2	PHE	X	293	49.179	40.203	46.284	0.00	0.00
ATOM	4432	CD2	PHE	X	293	50.512	41.850	45.840	0.00	0.00
ATOM	4433	HD2	PHE	X	293	49.905	42.563	46.377	0.00	0.00
ATOM	4434	C	PHE	X	293	53.866	45.382	46.179	0.00	0.00
ATOM	4435	O	PHE	X	293	53.630	46.014	47.254	0.00	0.00
ATOM	4436	N	SER	X	294	54.345	46.105	45.160	0.00	0.00
ATOM	4437	H	SER	X	294	54.661	45.589	44.351	0.00	0.00
ATOM	4438	CA	SER	X	294	54.942	47.477	45.315	0.00	0.00
ATOM	4439	HA	SER	X	294	55.625	47.566	46.159	0.00	0.00
ATOM	4440	CB	SER	X	294	55.765	47.876	44.170	0.00	0.00
ATOM	4441	HB2	SER	X	294	55.262	47.803	43.206	0.00	0.00
ATOM	4442	HB3	SER	X	294	55.914	48.947	44.312	0.00	0.00
ATOM	4443	OG	SER	X	294	56.949	47.123	44.109	0.00	0.00
ATOM	4444	HG	SER	X	294	57.568	47.574	43.530	0.00	0.00
ATOM	4445	C	SER	X	294	53.932	48.567	45.574	0.00	0.00
ATOM	4446	O	SER	X	294	54.151	49.282	46.529	0.00	0.00
ATOM	4447	N	PHE	X	295	52.956	48.670	44.727	0.00	0.00
ATOM	4448	H	PHE	X	295	52.754	47.999	44.000	0.00	0.00
ATOM	4449	CA	PHE	X	295	51.906	49.686	44.932	0.00	0.00
ATOM	4450	HA	PHE	X	295	52.010	50.108	45.932	0.00	0.00
ATOM	4451	CB	PHE	X	295	51.947	50.845	43.920	0.00	0.00
ATOM	4452	HB2	PHE	X	295	51.931	50.497	42.887	0.00	0.00
ATOM	4453	HB3	PHE	X	295	50.988	51.312	44.143	0.00	0.00
ATOM	4454	CG	PHE	X	295	53.151	51.704	44.079	0.00	0.00
ATOM	4455	CD1	PHE	X	295	53.272	52.543	45.215	0.00	0.00
ATOM	4456	HD1	PHE	X	295	52.408	52.706	45.843	0.00	0.00
ATOM	4457	CE1	PHE	X	295	54.396	53.378	45.474	0.00	0.00
ATOM	4458	HE1	PHE	X	295	54.383	54.017	46.345	0.00	0.00
ATOM	4459	CZ	PHE	X	295	55.436	53.358	44.530	0.00	0.00
ATOM	4460	HZ	PHE	X	295	56.291	53.970	44.776	0.00	0.00
ATOM	4461	CE2	PHE	X	295	55.361	52.469	43.418	0.00	0.00
ATOM	4462	HE2	PHE	X	295	56.244	52.394	42.801	0.00	0.00
ATOM	4463	CD2	PHE	X	295	54.190	51.753	43.137	0.00	0.00
ATOM	4464	HD2	PHE	X	295	54.134	51.089	42.287	0.00	0.00
ATOM	4465	C	PHE	X	295	50.463	49.059	44.895	0.00	0.00
ATOM	4466	O	PHE	X	295	50.131	48.257	44.020	0.00	0.00
ATOM	4467	N	VAL	X	296	49.749	49.288	45.978	0.00	0.00
ATOM	4468	H	VAL	X	296	50.083	49.967	46.647	0.00	0.00
ATOM	4469	CA	VAL	X	296	48.478	48.602	46.324	0.00	0.00
ATOM	4470	HA	VAL	X	296	48.053	48.160	45.423	0.00	0.00
ATOM	4471	CB	VAL	X	296	48.693	47.453	47.324	0.00	0.00
ATOM	4472	HB	VAL	X	296	47.694	47.098	47.575	0.00	0.00
ATOM	4473	CG1	VAL	X	296	49.540	46.330	46.763	0.00	0.00
ATOM	4474	HG11	VAL	X	296	49.519	45.468	47.429	0.00	0.00
ATOM	4475	HG12	VAL	X	296	49.081	46.142	45.792	0.00	0.00
ATOM	4476	HG13	VAL	X	296	50.586	46.593	46.611	0.00	0.00
ATOM	4477	CG2	VAL	X	296	49.344	47.845	48.693	0.00	0.00
ATOM	4478	HG21	VAL	X	296	48.706	48.497	49.289	0.00	0.00
ATOM	4479	HG22	VAL	X	296	50.331	48.294	48.582	0.00	0.00
ATOM	4480	HG23	VAL	X	296	49.519	46.906	49.218	0.00	0.00
ATOM	4481	C	VAL	X	296	47.527	49.634	46.948	0.00	0.00
ATOM	4482	O	VAL	X	296	47.967	50.711	47.316	0.00	0.00
ATOM	4483	N	PRO	X	297	46.178	49.362	47.078	0.00	0.00
ATOM	4484	CD	PRO	X	297	45.474	48.200	46.430	0.00	0.00
ATOM	4485	HD2	PRO	X	297	45.753	47.376	47.087	0.00	0.00
ATOM	4486	HD3	PRO	X	297	45.735	47.988	45.393	0.00	0.00

ATOM	4487	CG	PRO	X	297	44.013	48.554	46.600	0.00	0.00
ATOM	4488	HG2	PRO	X	297	43.366	47.685	46.721	0.00	0.00
ATOM	4489	HG3	PRO	X	297	43.644	49.267	45.864	0.00	0.00
ATOM	4490	CB	PRO	X	297	44.004	49.301	47.973	0.00	0.00
ATOM	4491	HB2	PRO	X	297	44.088	48.605	48.808	0.00	0.00
ATOM	4492	HB3	PRO	X	297	43.170	49.999	48.049	0.00	0.00
ATOM	4493	CA	PRO	X	297	45.210	50.176	47.853	0.00	0.00
ATOM	4494	HA	PRO	X	297	44.948	50.964	47.148	0.00	0.00
ATOM	4495	C	PRO	X	297	45.743	50.669	49.225	0.00	0.00
ATOM	4496	O	PRO	X	297	46.398	50.009	50.033	0.00	0.00
ATOM	4497	N	VAL	X	298	45.507	51.952	49.404	0.00	0.00
ATOM	4498	H	VAL	X	298	44.945	52.389	48.688	0.00	0.00
ATOM	4499	CA	VAL	X	298	45.941	52.756	50.559	0.00	0.00
ATOM	4500	HA	VAL	X	298	46.649	52.125	51.096	0.00	0.00
ATOM	4501	CB	VAL	X	298	46.540	54.069	50.107	0.00	0.00
ATOM	4502	HB	VAL	X	298	45.761	54.705	49.687	0.00	0.00
ATOM	4503	CG1	VAL	X	298	47.302	54.738	51.224	0.00	0.00
ATOM	4504	HG11	VAL	X	298	48.109	54.087	51.559	0.00	0.00
ATOM	4505	HG12	VAL	X	298	47.753	55.679	50.908	0.00	0.00
ATOM	4506	HG13	VAL	X	298	46.586	54.971	52.012	0.00	0.00
ATOM	4507	CG2	VAL	X	298	47.563	53.934	48.931	0.00	0.00
ATOM	4508	HG21	VAL	X	298	47.782	54.946	48.591	0.00	0.00
ATOM	4509	HG22	VAL	X	298	47.137	53.510	48.022	0.00	0.00
ATOM	4510	HG23	VAL	X	298	48.445	53.421	49.315	0.00	0.00
ATOM	4511	C	VAL	X	298	44.781	52.958	51.537	0.00	0.00
ATOM	4512	O	VAL	X	298	43.678	53.345	51.101	0.00	0.00
ATOM	4513	N	VAL	X	299	45.010	52.799	52.832	0.00	0.00
ATOM	4514	H	VAL	X	299	45.977	52.721	53.112	0.00	0.00
ATOM	4515	CA	VAL	X	299	44.118	53.362	53.832	0.00	0.00
ATOM	4516	HA	VAL	X	299	43.071	53.244	53.554	0.00	0.00
ATOM	4517	CB	VAL	X	299	44.369	52.709	55.202	0.00	0.00
ATOM	4518	HB	VAL	X	299	45.382	52.930	55.539	0.00	0.00
ATOM	4519	CG1	VAL	X	299	43.421	53.222	56.323	0.00	0.00
ATOM	4520	HG11	VAL	X	299	43.633	54.287	56.418	0.00	0.00
ATOM	4521	HG12	VAL	X	299	42.403	53.158	55.939	0.00	0.00
ATOM	4522	HG13	VAL	X	299	43.516	52.710	57.281	0.00	0.00
ATOM	4523	CG2	VAL	X	299	44.159	51.213	55.191	0.00	0.00
ATOM	4524	HG21	VAL	X	299	43.266	50.934	54.632	0.00	0.00
ATOM	4525	HG22	VAL	X	299	44.149	50.839	56.215	0.00	0.00
ATOM	4526	HG23	VAL	X	299	44.988	50.800	54.618	0.00	0.00
ATOM	4527	C	VAL	X	299	44.369	54.931	53.916	0.00	0.00
ATOM	4528	O	VAL	X	299	45.420	55.337	54.348	0.00	0.00
ATOM	4529	N	ASP	X	300	43.459	55.699	53.347	0.00	0.00
ATOM	4530	H	ASP	X	300	42.623	55.231	53.025	0.00	0.00
ATOM	4531	CA	ASP	X	300	43.619	57.136	53.002	0.00	0.00
ATOM	4532	HA	ASP	X	300	44.685	57.339	53.106	0.00	0.00
ATOM	4533	CB	ASP	X	300	43.259	57.207	51.484	0.00	0.00
ATOM	4534	HB2	ASP	X	300	43.453	58.221	51.132	0.00	0.00
ATOM	4535	HB3	ASP	X	300	43.863	56.568	50.840	0.00	0.00
ATOM	4536	CG	ASP	X	300	41.864	56.893	51.150	0.00	0.00
ATOM	4537	OD1	ASP	X	300	41.082	56.487	51.985	0.00	0.00
ATOM	4538	OD2	ASP	X	300	41.481	57.101	49.980	0.00	0.00
ATOM	4539	C	ASP	X	300	42.776	58.098	53.882	0.00	0.00
ATOM	4540	O	ASP	X	300	43.108	59.282	53.875	0.00	0.00
ATOM	4541	N	GLY	X	301	41.727	57.602	54.561	0.00	0.00
ATOM	4542	H	GLY	X	301	41.583	56.603	54.521	0.00	0.00
ATOM	4543	CA	GLY	X	301	40.746	58.334	55.377	0.00	0.00
ATOM	4544	HA2	GLY	X	301	40.437	57.772	56.258	0.00	0.00
ATOM	4545	HA3	GLY	X	301	41.285	59.223	55.705	0.00	0.00
ATOM	4546	C	GLY	X	301	39.465	58.861	54.675	0.00	0.00
ATOM	4547	O	GLY	X	301	38.694	59.534	55.287	0.00	0.00
ATOM	4548	N	ASP	X	302	39.396	58.642	53.326	0.00	0.00
ATOM	4549	H	ASP	X	302	40.042	57.966	52.945	0.00	0.00
ATOM	4550	CA	ASP	X	302	38.373	59.206	52.402	0.00	0.00
ATOM	4551	HA	ASP	X	302	37.515	59.497	53.009	0.00	0.00
ATOM	4552	CB	ASP	X	302	38.958	60.429	51.733	0.00	0.00
ATOM	4553	HB2	ASP	X	302	39.588	60.894	52.491	0.00	0.00

ATOM	4554	HB3	ASP	X	302	39.532	60.248	50.825	0.00	0.00
ATOM	4555	CG	ASP	X	302	37.825	61.416	51.391	0.00	0.00
ATOM	4556	OD1	ASP	X	302	37.173	62.038	52.293	0.00	0.00
ATOM	4557	OD2	ASP	X	302	37.546	61.574	50.190	0.00	0.00
ATOM	4558	C	ASP	X	302	37.725	58.161	51.530	0.00	0.00
ATOM	4559	O	ASP	X	302	36.490	58.095	51.398	0.00	0.00
ATOM	4560	N	PHE	X	303	38.457	57.286	50.808	0.00	0.00
ATOM	4561	H	PHE	X	303	39.460	57.321	50.917	0.00	0.00
ATOM	4562	CA	PHE	X	303	37.882	56.102	50.195	0.00	0.00
ATOM	4563	HA	PHE	X	303	37.004	56.376	49.610	0.00	0.00
ATOM	4564	CB	PHE	X	303	38.822	55.615	49.118	0.00	0.00
ATOM	4565	HB2	PHE	X	303	39.196	56.469	48.553	0.00	0.00
ATOM	4566	HB3	PHE	X	303	39.676	55.246	49.687	0.00	0.00
ATOM	4567	CG	PHE	X	303	38.301	54.545	48.155	0.00	0.00
ATOM	4568	CD1	PHE	X	303	38.139	53.195	48.549	0.00	0.00
ATOM	4569	HD1	PHE	X	303	38.447	52.807	49.509	0.00	0.00
ATOM	4570	CE1	PHE	X	303	37.581	52.290	47.611	0.00	0.00
ATOM	4571	HE1	PHE	X	303	37.467	51.246	47.863	0.00	0.00
ATOM	4572	CZ	PHE	X	303	37.141	52.776	46.350	0.00	0.00
ATOM	4573	HZ	PHE	X	303	36.686	52.111	45.630	0.00	0.00
ATOM	4574	CE2	PHE	X	303	37.413	54.135	45.993	0.00	0.00
ATOM	4575	HE2	PHE	X	303	37.102	54.507	45.028	0.00	0.00
ATOM	4576	CD2	PHE	X	303	37.934	55.018	46.900	0.00	0.00
ATOM	4577	HD2	PHE	X	303	38.139	56.054	46.673	0.00	0.00
ATOM	4578	C	PHE	X	303	37.614	54.966	51.278	0.00	0.00
ATOM	4579	O	PHE	X	303	36.583	54.259	51.215	0.00	0.00
ATOM	4580	N	LEU	X	304	38.548	54.914	52.248	0.00	0.00
ATOM	4581	H	LEU	X	304	39.297	55.592	52.260	0.00	0.00
ATOM	4582	CA	LEU	X	304	38.384	54.135	53.511	0.00	0.00
ATOM	4583	HA	LEU	X	304	37.381	53.709	53.537	0.00	0.00
ATOM	4584	CB	LEU	X	304	39.392	52.996	53.461	0.00	0.00
ATOM	4585	HB2	LEU	X	304	40.397	53.413	53.517	0.00	0.00
ATOM	4586	HB3	LEU	X	304	39.215	52.382	54.344	0.00	0.00
ATOM	4587	CG	LEU	X	304	39.358	52.057	52.272	0.00	0.00
ATOM	4588	HG	LEU	X	304	39.571	52.647	51.381	0.00	0.00
ATOM	4589	CD1	LEU	X	304	40.449	50.992	52.438	0.00	0.00
ATOM	4590	HD11	LEU	X	304	40.460	50.483	53.402	0.00	0.00
ATOM	4591	HD12	LEU	X	304	41.407	51.511	52.434	0.00	0.00
ATOM	4592	HD13	LEU	X	304	40.523	50.255	51.639	0.00	0.00
ATOM	4593	CD2	LEU	X	304	37.985	51.308	52.161	0.00	0.00
ATOM	4594	HD21	LEU	X	304	37.903	50.630	51.311	0.00	0.00
ATOM	4595	HD22	LEU	X	304	37.790	50.780	53.094	0.00	0.00
ATOM	4596	HD23	LEU	X	304	37.164	52.023	52.118	0.00	0.00
ATOM	4597	C	LEU	X	304	38.660	55.091	54.695	0.00	0.00
ATOM	4598	O	LEU	X	304	39.809	55.545	54.859	0.00	0.00
ATOM	4599	N	SER	X	305	37.716	55.311	55.612	0.00	0.00
ATOM	4600	H	SER	X	305	36.821	54.880	55.431	0.00	0.00
ATOM	4601	CA	SER	X	305	37.771	56.122	56.806	0.00	0.00
ATOM	4602	HA	SER	X	305	38.391	56.959	56.484	0.00	0.00
ATOM	4603	CB	SER	X	305	36.384	56.583	57.099	0.00	0.00
ATOM	4604	HB2	SER	X	305	36.424	57.131	58.040	0.00	0.00
ATOM	4605	HB3	SER	X	305	35.990	57.347	56.429	0.00	0.00
ATOM	4606	OG	SER	X	305	35.387	55.603	57.265	0.00	0.00
ATOM	4607	HG	SER	X	305	34.665	56.067	57.695	0.00	0.00
ATOM	4608	C	SER	X	305	38.426	55.472	58.008	0.00	0.00
ATOM	4609	O	SER	X	305	38.657	56.191	58.925	0.00	0.00
ATOM	4610	N	ASP	X	306	38.884	54.267	57.914	0.00	0.00
ATOM	4611	H	ASP	X	306	38.687	53.770	57.057	0.00	0.00
ATOM	4612	CA	ASP	X	306	39.726	53.556	58.818	0.00	0.00
ATOM	4613	HA	ASP	X	306	40.548	54.235	59.046	0.00	0.00
ATOM	4614	CB	ASP	X	306	39.076	53.171	60.128	0.00	0.00
ATOM	4615	HB2	ASP	X	306	38.375	53.927	60.483	0.00	0.00
ATOM	4616	HB3	ASP	X	306	38.508	52.251	59.995	0.00	0.00
ATOM	4617	CG	ASP	X	306	40.061	53.097	61.241	0.00	0.00
ATOM	4618	OD1	ASP	X	306	40.916	52.182	61.317	0.00	0.00
ATOM	4619	OD2	ASP	X	306	40.123	53.989	62.065	0.00	0.00
ATOM	4620	C	ASP	X	306	40.279	52.312	58.047	0.00	0.00

ATOM	4621	O	ASP	X	306	39.915	52.100	56.882	0.00	0.00
ATOM	4622	N	THR	X	307	41.117	51.456	58.661	0.00	0.00
ATOM	4623	H	THR	X	307	41.290	51.639	59.639	0.00	0.00
ATOM	4624	CA	THR	X	307	41.582	50.146	58.207	0.00	0.00
ATOM	4625	HA	THR	X	307	42.090	50.282	57.253	0.00	0.00
ATOM	4626	CB	THR	X	307	42.401	49.468	59.284	0.00	0.00
ATOM	4627	HB	THR	X	307	42.651	48.457	58.959	0.00	0.00
ATOM	4628	CG2	THR	X	307	43.674	50.257	59.647	0.00	0.00
ATOM	4629	HG21	THR	X	307	43.419	51.197	60.138	0.00	0.00
ATOM	4630	HG22	THR	X	307	44.212	50.388	58.708	0.00	0.00
ATOM	4631	HG23	THR	X	307	44.308	49.843	60.430	0.00	0.00
ATOM	4632	OG1	THR	X	307	41.653	49.417	60.452	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.334	50.285	60.708	0.00	0.00
ATOM	4634	C	THR	X	307	40.365	49.312	57.791	0.00	0.00
ATOM	4635	O	THR	X	307	39.285	49.420	58.392	0.00	0.00
ATOM	4636	N	PRO	X	308	40.561	48.429	56.812	0.00	0.00
ATOM	4637	CD	PRO	X	308	41.625	48.349	55.882	0.00	0.00
ATOM	4638	HD2	PRO	X	308	42.511	47.865	56.293	0.00	0.00
ATOM	4639	HD3	PRO	X	308	41.730	49.320	55.398	0.00	0.00
ATOM	4640	CG	PRO	X	308	41.150	47.462	54.754	0.00	0.00
ATOM	4641	HG2	PRO	X	308	41.939	46.867	54.294	0.00	0.00
ATOM	4642	HG3	PRO	X	308	40.620	48.055	54.009	0.00	0.00
ATOM	4643	CB	PRO	X	308	40.228	46.474	55.503	0.00	0.00
ATOM	4644	HB2	PRO	X	308	40.766	45.669	56.002	0.00	0.00
ATOM	4645	HB3	PRO	X	308	39.445	45.960	54.945	0.00	0.00
ATOM	4646	CA	PRO	X	308	39.630	47.372	56.522	0.00	0.00
ATOM	4647	HA	PRO	X	308	38.750	47.894	56.145	0.00	0.00
ATOM	4648	C	PRO	X	308	39.278	46.596	57.792	0.00	0.00
ATOM	4649	O	PRO	X	308	38.125	46.336	57.946	0.00	0.00
ATOM	4650	N	GLU	X	309	40.267	46.214	58.635	0.00	0.00
ATOM	4651	H	GLU	X	309	41.225	46.494	58.480	0.00	0.00
ATOM	4652	CA	GLU	X	309	40.047	45.669	59.978	0.00	0.00
ATOM	4653	HA	GLU	X	309	39.662	44.652	59.920	0.00	0.00
ATOM	4654	CB	GLU	X	309	41.408	45.653	60.696	0.00	0.00
ATOM	4655	HB2	GLU	X	309	42.162	45.175	60.071	0.00	0.00
ATOM	4656	HB3	GLU	X	309	41.790	46.654	60.894	0.00	0.00
ATOM	4657	CG	GLU	X	309	41.416	44.870	62.006	0.00	0.00
ATOM	4658	HG2	GLU	X	309	40.569	45.099	62.653	0.00	0.00
ATOM	4659	HG3	GLU	X	309	41.491	43.807	61.777	0.00	0.00
ATOM	4660	CD	GLU	X	309	42.674	45.122	62.887	0.00	0.00
ATOM	4661	OE1	GLU	X	309	42.592	45.343	64.110	0.00	0.00
ATOM	4662	OE2	GLU	X	309	43.795	45.235	62.343	0.00	0.00
ATOM	4663	C	GLU	X	309	38.960	46.294	60.832	0.00	0.00
ATOM	4664	O	GLU	X	309	37.978	45.612	61.228	0.00	0.00
ATOM	4665	N	ALA	X	310	39.097	47.585	60.984	0.00	0.00
ATOM	4666	H	ALA	X	310	39.842	48.120	60.561	0.00	0.00
ATOM	4667	CA	ALA	X	310	38.150	48.451	61.758	0.00	0.00
ATOM	4668	HA	ALA	X	310	38.104	47.977	62.739	0.00	0.00
ATOM	4669	CB	ALA	X	310	38.751	49.807	62.029	0.00	0.00
ATOM	4670	HB1	ALA	X	310	38.021	50.288	62.680	0.00	0.00
ATOM	4671	HB2	ALA	X	310	38.846	50.343	61.085	0.00	0.00
ATOM	4672	HB3	ALA	X	310	39.717	49.667	62.514	0.00	0.00
ATOM	4673	C	ALA	X	310	36.790	48.477	61.125	0.00	0.00
ATOM	4674	O	ALA	X	310	35.730	48.351	61.807	0.00	0.00
ATOM	4675	N	LEU	X	311	36.766	48.731	59.797	0.00	0.00
ATOM	4676	H	LEU	X	311	37.642	48.990	59.368	0.00	0.00
ATOM	4677	CA	LEU	X	311	35.546	48.862	58.973	0.00	0.00
ATOM	4678	HA	LEU	X	311	34.805	49.525	59.419	0.00	0.00
ATOM	4679	CB	LEU	X	311	35.792	49.431	57.499	0.00	0.00
ATOM	4680	HB2	LEU	X	311	36.535	48.761	57.067	0.00	0.00
ATOM	4681	HB3	LEU	X	311	34.900	49.387	56.875	0.00	0.00
ATOM	4682	CG	LEU	X	311	36.403	50.839	57.471	0.00	0.00
ATOM	4683	HG	LEU	X	311	37.279	50.848	58.119	0.00	0.00
ATOM	4684	CD1	LEU	X	311	36.806	51.173	56.003	0.00	0.00
ATOM	4685	HD11	LEU	X	311	35.951	51.244	55.330	0.00	0.00
ATOM	4686	HD12	LEU	X	311	37.383	50.334	55.614	0.00	0.00
ATOM	4687	HD13	LEU	X	311	37.347	52.094	55.788	0.00	0.00

ATOM	4688	CD2	LEU	X	311	35.504	51.861	58.107	0.00	0.00
ATOM	4689	HD21	LEU	X	311	35.533	51.637	59.173	0.00	0.00
ATOM	4690	HD22	LEU	X	311	35.944	52.851	57.987	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.505	51.877	57.672	0.00	0.00
ATOM	4692	C	LEU	X	311	34.690	47.594	58.950	0.00	0.00
ATOM	4693	O	LEU	X	311	33.471	47.609	59.099	0.00	0.00
ATOM	4694	N	ILE	X	312	35.418	46.428	58.953	0.00	0.00
ATOM	4695	H	ILE	X	312	36.422	46.488	58.856	0.00	0.00
ATOM	4696	CA	ILE	X	312	34.722	45.090	58.991	0.00	0.00
ATOM	4697	HA	ILE	X	312	33.838	45.154	58.357	0.00	0.00
ATOM	4698	CB	ILE	X	312	35.665	43.952	58.485	0.00	0.00
ATOM	4699	HB	ILE	X	312	36.616	43.963	59.018	0.00	0.00
ATOM	4700	CG2	ILE	X	312	35.038	42.545	58.730	0.00	0.00
ATOM	4701	HG21	ILE	X	312	34.101	42.382	58.198	0.00	0.00
ATOM	4702	HG22	ILE	X	312	34.841	42.501	59.801	0.00	0.00
ATOM	4703	HG23	ILE	X	312	35.787	41.782	58.519	0.00	0.00
ATOM	4704	CG1	ILE	X	312	35.980	44.149	56.995	0.00	0.00
ATOM	4705	HG12	ILE	X	312	35.099	43.932	56.390	0.00	0.00
ATOM	4706	HG13	ILE	X	312	36.224	45.178	56.732	0.00	0.00
ATOM	4707	CD1	ILE	X	312	37.205	43.286	56.571	0.00	0.00
ATOM	4708	HD11	ILE	X	312	37.481	43.455	55.530	0.00	0.00
ATOM	4709	HD12	ILE	X	312	36.942	42.232	56.665	0.00	0.00
ATOM	4710	HD13	ILE	X	312	38.051	43.601	57.182	0.00	0.00
ATOM	4711	C	ILE	X	312	34.215	44.825	60.483	0.00	0.00
ATOM	4712	O	ILE	X	312	33.068	44.346	60.733	0.00	0.00
ATOM	4713	N	ASN	X	313	35.020	45.190	61.479	0.00	0.00
ATOM	4714	H	ASN	X	313	35.922	45.580	61.245	0.00	0.00
ATOM	4715	CA	ASN	X	313	34.613	45.167	62.896	0.00	0.00
ATOM	4716	HA	ASN	X	313	34.339	44.145	63.156	0.00	0.00
ATOM	4717	CB	ASN	X	313	35.803	45.429	63.792	0.00	0.00
ATOM	4718	HB2	ASN	X	313	36.270	46.388	63.568	0.00	0.00
ATOM	4719	HB3	ASN	X	313	35.526	45.429	64.847	0.00	0.00
ATOM	4720	CG	ASN	X	313	36.924	44.322	63.739	0.00	0.00
ATOM	4721	OD1	ASN	X	313	36.638	43.169	63.466	0.00	0.00
ATOM	4722	ND2	ASN	X	313	38.115	44.625	64.211	0.00	0.00
ATOM	4723	HD21	ASN	X	313	38.882	43.969	64.195	0.00	0.00
ATOM	4724	HD22	ASN	X	313	38.182	45.569	64.563	0.00	0.00
ATOM	4725	C	ASN	X	313	33.346	46.039	63.283	0.00	0.00
ATOM	4726	O	ASN	X	313	32.798	45.873	64.403	0.00	0.00
ATOM	4727	N	ALA	X	314	33.049	47.079	62.493	0.00	0.00
ATOM	4728	H	ALA	X	314	33.700	47.097	61.721	0.00	0.00
ATOM	4729	CA	ALA	X	314	32.142	48.137	62.948	0.00	0.00
ATOM	4730	HA	ALA	X	314	31.647	47.844	63.874	0.00	0.00
ATOM	4731	CB	ALA	X	314	32.821	49.413	63.124	0.00	0.00
ATOM	4732	HB1	ALA	X	314	31.994	50.058	63.419	0.00	0.00
ATOM	4733	HB2	ALA	X	314	33.248	49.796	62.197	0.00	0.00
ATOM	4734	HB3	ALA	X	314	33.548	49.419	63.936	0.00	0.00
ATOM	4735	C	ALA	X	314	30.998	48.301	61.931	0.00	0.00
ATOM	4736	O	ALA	X	314	30.036	48.903	62.395	0.00	0.00
ATOM	4737	N	GLY	X	315	31.012	47.786	60.742	0.00	0.00
ATOM	4738	H	GLY	X	315	31.846	47.303	60.441	0.00	0.00
ATOM	4739	CA	GLY	X	315	30.088	48.053	59.616	0.00	0.00
ATOM	4740	HA2	GLY	X	315	29.790	49.070	59.870	0.00	0.00
ATOM	4741	HA3	GLY	X	315	30.612	47.906	58.671	0.00	0.00
ATOM	4742	C	GLY	X	315	28.847	47.168	59.697	0.00	0.00
ATOM	4743	O	GLY	X	315	28.844	46.011	60.135	0.00	0.00
ATOM	4744	N	ASP	X	316	27.721	47.751	59.242	0.00	0.00
ATOM	4745	H	ASP	X	316	27.856	48.660	58.823	0.00	0.00
ATOM	4746	CA	ASP	X	316	26.428	47.056	59.043	0.00	0.00
ATOM	4747	HA	ASP	X	316	26.332	46.185	59.692	0.00	0.00
ATOM	4748	CB	ASP	X	316	25.277	48.086	59.348	0.00	0.00
ATOM	4749	HB2	ASP	X	316	25.336	48.739	60.219	0.00	0.00
ATOM	4750	HB3	ASP	X	316	25.195	48.808	58.536	0.00	0.00
ATOM	4751	CG	ASP	X	316	23.952	47.336	59.566	0.00	0.00
ATOM	4752	OD1	ASP	X	316	23.382	46.703	58.658	0.00	0.00
ATOM	4753	OD2	ASP	X	316	23.371	47.519	60.662	0.00	0.00
ATOM	4754	C	ASP	X	316	26.342	46.400	57.619	0.00	0.00

ATOM	4755	O	ASP	X	316	26.699	46.953	56.614	0.00	0.00
ATOM	4756	N	PHE	X	317	25.821	45.173	57.543	0.00	0.00
ATOM	4757	H	PHE	X	317	25.376	44.870	58.397	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.638	44.420	56.330	0.00	0.00
ATOM	4759	HA	PHE	X	317	25.573	45.041	55.436	0.00	0.00
ATOM	4760	CB	PHE	X	317	26.863	43.466	56.141	0.00	0.00
ATOM	4761	HB2	PHE	X	317	26.835	42.773	56.981	0.00	0.00
ATOM	4762	HB3	PHE	X	317	26.817	42.962	55.176	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.169	44.149	56.222	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.794	44.656	55.077	0.00	0.00
ATOM	4765	HD1	PHE	X	317	28.298	44.582	54.120	0.00	0.00
ATOM	4766	CE1	PHE	X	317	30.036	45.317	55.180	0.00	0.00
ATOM	4767	HE1	PHE	X	317	30.400	45.777	54.273	0.00	0.00
ATOM	4768	CZ	PHE	X	317	30.700	45.421	56.444	0.00	0.00
ATOM	4769	HZ	PHE	X	317	31.694	45.842	56.406	0.00	0.00
ATOM	4770	CE2	PHE	X	317	30.106	44.841	57.582	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.576	44.808	58.554	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.774	44.303	57.479	0.00	0.00
ATOM	4773	HD2	PHE	X	317	28.330	43.854	58.356	0.00	0.00
ATOM	4774	C	PHE	X	317	24.251	43.711	56.221	0.00	0.00
ATOM	4775	O	PHE	X	317	24.132	42.716	55.456	0.00	0.00
ATOM	4776	N	HIE	X	318	23.214	44.185	56.980	0.00	0.00
ATOM	4777	H	HIE	X	318	23.296	45.014	57.550	0.00	0.00
ATOM	4778	CA	HIE	X	318	21.852	43.660	56.791	0.00	0.00
ATOM	4779	HA	HIE	X	318	21.985	42.601	57.013	0.00	0.00
ATOM	4780	CB	HIE	X	318	20.929	44.312	57.843	0.00	0.00
ATOM	4781	HB2	HIE	X	318	21.290	45.339	57.905	0.00	0.00
ATOM	4782	HB3	HIE	X	318	19.894	44.260	57.503	0.00	0.00
ATOM	4783	CG	HIE	X	318	20.998	43.638	59.191	0.00	0.00
ATOM	4784	ND1	HIE	X	318	20.275	42.531	59.598	0.00	0.00
ATOM	4785	CE1	HIE	X	318	20.720	42.229	60.796	0.00	0.00
ATOM	4786	HE1	HIE	X	318	20.281	41.395	61.323	0.00	0.00
ATOM	4787	NE2	HIE	X	318	21.541	43.207	61.235	0.00	0.00
ATOM	4788	HE2	HIE	X	318	22.033	43.202	62.117	0.00	0.00
ATOM	4789	CD2	HIE	X	318	21.778	44.074	60.192	0.00	0.00
ATOM	4790	HD2	HIE	X	318	22.395	44.959	60.212	0.00	0.00
ATOM	4791	C	HIE	X	318	21.377	43.852	55.361	0.00	0.00
ATOM	4792	O	HIE	X	318	21.632	44.804	54.627	0.00	0.00
ATOM	4793	N	GLY	X	319	20.525	42.922	54.916	0.00	0.00
ATOM	4794	H	GLY	X	319	20.263	42.133	55.490	0.00	0.00
ATOM	4795	CA	GLY	X	319	19.971	42.859	53.506	0.00	0.00
ATOM	4796	HA2	GLY	X	319	19.111	42.193	53.440	0.00	0.00
ATOM	4797	HA3	GLY	X	319	19.598	43.839	53.207	0.00	0.00
ATOM	4798	C	GLY	X	319	20.988	42.472	52.424	0.00	0.00
ATOM	4799	O	GLY	X	319	20.520	42.007	51.386	0.00	0.00
ATOM	4800	N	LEU	X	320	22.334	42.548	52.636	0.00	0.00
ATOM	4801	H	LEU	X	320	22.667	43.027	53.461	0.00	0.00
ATOM	4802	CA	LEU	X	320	23.358	42.187	51.643	0.00	0.00
ATOM	4803	HA	LEU	X	320	23.026	42.643	50.711	0.00	0.00
ATOM	4804	CB	LEU	X	320	24.668	42.764	52.100	0.00	0.00
ATOM	4805	HB2	LEU	X	320	24.477	43.339	53.006	0.00	0.00
ATOM	4806	HB3	LEU	X	320	25.315	41.931	52.374	0.00	0.00
ATOM	4807	CG	LEU	X	320	25.359	43.643	51.064	0.00	0.00
ATOM	4808	HG	LEU	X	320	24.666	44.410	50.719	0.00	0.00
ATOM	4809	CD1	LEU	X	320	26.520	44.429	51.610	0.00	0.00
ATOM	4810	HD11	LEU	X	320	26.876	45.118	50.843	0.00	0.00
ATOM	4811	HD12	LEU	X	320	27.330	43.721	51.782	0.00	0.00
ATOM	4812	HD13	LEU	X	320	26.242	44.866	52.569	0.00	0.00
ATOM	4813	CD2	LEU	X	320	25.857	42.880	49.831	0.00	0.00
ATOM	4814	HD21	LEU	X	320	26.352	43.543	49.121	0.00	0.00
ATOM	4815	HD22	LEU	X	320	26.521	42.084	50.167	0.00	0.00
ATOM	4816	HD23	LEU	X	320	24.992	42.456	49.322	0.00	0.00
ATOM	4817	C	LEU	X	320	23.345	40.637	51.434	0.00	0.00
ATOM	4818	O	LEU	X	320	23.044	39.918	52.401	0.00	0.00
ATOM	4819	N	GLN	X	321	23.658	40.172	50.266	0.00	0.00
ATOM	4820	H	GLN	X	321	23.765	40.852	49.527	0.00	0.00
ATOM	4821	CA	GLN	X	321	23.998	38.833	49.919	0.00	0.00

ATOM	4822	HA	GLN	X	321	23.978	38.250	50.840	0.00	0.00
ATOM	4823	CB	GLN	X	321	22.926	38.241	48.960	0.00	0.00
ATOM	4824	HB2	GLN	X	321	23.019	38.634	47.948	0.00	0.00
ATOM	4825	HB3	GLN	X	321	23.139	37.172	48.920	0.00	0.00
ATOM	4826	CG	GLN	X	321	21.497	38.371	49.489	0.00	0.00
ATOM	4827	HG2	GLN	X	321	21.018	37.392	49.464	0.00	0.00
ATOM	4828	HG3	GLN	X	321	21.424	38.735	50.514	0.00	0.00
ATOM	4829	CD	GLN	X	321	20.674	39.298	48.607	0.00	0.00
ATOM	4830	OE1	GLN	X	321	20.262	38.907	47.530	0.00	0.00
ATOM	4831	NE2	GLN	X	321	20.387	40.483	49.061	0.00	0.00
ATOM	4832	HE21	GLN	X	321	19.870	41.101	48.451	0.00	0.00
ATOM	4833	HE22	GLN	X	321	20.571	40.773	50.011	0.00	0.00
ATOM	4834	C	GLN	X	321	25.368	38.737	49.342	0.00	0.00
ATOM	4835	O	GLN	X	321	25.746	39.571	48.490	0.00	0.00
ATOM	4836	N	VAL	X	322	26.144	37.744	49.714	0.00	0.00
ATOM	4837	H	VAL	X	322	25.862	36.939	50.255	0.00	0.00
ATOM	4838	CA	VAL	X	322	27.606	37.635	49.495	0.00	0.00
ATOM	4839	HA	VAL	X	322	27.846	38.249	48.627	0.00	0.00
ATOM	4840	CB	VAL	X	322	28.408	38.198	50.720	0.00	0.00
ATOM	4841	HB	VAL	X	322	28.198	37.669	51.650	0.00	0.00
ATOM	4842	CG1	VAL	X	322	29.889	38.101	50.374	0.00	0.00
ATOM	4843	HG11	VAL	X	322	30.225	37.068	50.282	0.00	0.00
ATOM	4844	HG12	VAL	X	322	30.068	38.693	49.476	0.00	0.00
ATOM	4845	HG13	VAL	X	322	30.416	38.609	51.181	0.00	0.00
ATOM	4846	CG2	VAL	X	322	27.943	39.623	51.034	0.00	0.00
ATOM	4847	HG21	VAL	X	322	28.505	40.050	51.865	0.00	0.00
ATOM	4848	HG22	VAL	X	322	26.894	39.673	51.325	0.00	0.00
ATOM	4849	HG23	VAL	X	322	28.123	40.240	50.154	0.00	0.00
ATOM	4850	C	VAL	X	322	28.054	36.158	49.270	0.00	0.00
ATOM	4851	O	VAL	X	322	27.642	35.339	50.094	0.00	0.00
ATOM	4852	N	LEU	X	323	28.950	35.875	48.321	0.00	0.00
ATOM	4853	H	LEU	X	323	29.454	36.647	47.907	0.00	0.00
ATOM	4854	CA	LEU	X	323	29.490	34.553	48.108	0.00	0.00
ATOM	4855	HA	LEU	X	323	29.135	33.870	48.880	0.00	0.00
ATOM	4856	CB	LEU	X	323	29.071	34.116	46.646	0.00	0.00
ATOM	4857	HB2	LEU	X	323	27.982	34.123	46.695	0.00	0.00
ATOM	4858	HB3	LEU	X	323	29.392	34.897	45.957	0.00	0.00
ATOM	4859	CG	LEU	X	323	29.679	32.777	46.143	0.00	0.00
ATOM	4860	HG	LEU	X	323	30.763	32.874	46.186	0.00	0.00
ATOM	4861	CD1	LEU	X	323	29.264	31.578	46.990	0.00	0.00
ATOM	4862	HD11	LEU	X	323	29.751	30.710	46.546	0.00	0.00
ATOM	4863	HD12	LEU	X	323	28.176	31.538	46.950	0.00	0.00
ATOM	4864	HD13	LEU	X	323	29.492	31.735	48.044	0.00	0.00
ATOM	4865	CD2	LEU	X	323	29.265	32.591	44.683	0.00	0.00
ATOM	4866	HD21	LEU	X	323	29.717	31.678	44.296	0.00	0.00
ATOM	4867	HD22	LEU	X	323	28.195	32.472	44.510	0.00	0.00
ATOM	4868	HD23	LEU	X	323	29.633	33.493	44.194	0.00	0.00
ATOM	4869	C	LEU	X	323	31.007	34.565	48.316	0.00	0.00
ATOM	4870	O	LEU	X	323	31.653	35.506	47.889	0.00	0.00
ATOM	4871	N	VAL	X	324	31.600	33.612	49.068	0.00	0.00
ATOM	4872	H	VAL	X	324	31.072	32.786	49.311	0.00	0.00
ATOM	4873	CA	VAL	X	324	33.040	33.629	49.391	0.00	0.00
ATOM	4874	HA	VAL	X	324	33.522	34.314	48.693	0.00	0.00
ATOM	4875	CB	VAL	X	324	33.367	34.058	50.863	0.00	0.00
ATOM	4876	HB	VAL	X	324	34.441	33.907	50.975	0.00	0.00
ATOM	4877	CG1	VAL	X	324	33.009	35.536	51.150	0.00	0.00
ATOM	4878	HG11	VAL	X	324	33.291	36.162	50.302	0.00	0.00
ATOM	4879	HG12	VAL	X	324	31.923	35.618	51.094	0.00	0.00
ATOM	4880	HG13	VAL	X	324	33.398	35.798	52.133	0.00	0.00
ATOM	4881	CG2	VAL	X	324	32.781	33.137	51.910	0.00	0.00
ATOM	4882	HG21	VAL	X	324	31.701	33.250	51.995	0.00	0.00
ATOM	4883	HG22	VAL	X	324	33.235	33.410	52.863	0.00	0.00
ATOM	4884	HG23	VAL	X	324	32.960	32.114	51.581	0.00	0.00
ATOM	4885	C	VAL	X	324	33.613	32.244	49.114	0.00	0.00
ATOM	4886	O	VAL	X	324	32.859	31.261	49.130	0.00	0.00
ATOM	4887	N	GLY	X	325	34.911	32.142	48.903	0.00	0.00
ATOM	4888	H	GLY	X	325	35.410	33.013	48.791	0.00	0.00

ATOM	4889	CA	GLY	X	325	35.649	30.890	48.859	0.00	0.00
ATOM	4890	HA2	GLY	X	325	35.627	30.420	49.842	0.00	0.00
ATOM	4891	HA3	GLY	X	325	35.103	30.197	48.220	0.00	0.00
ATOM	4892	C	GLY	X	325	37.008	30.978	48.320	0.00	0.00
ATOM	4893	O	GLY	X	325	37.598	32.014	47.968	0.00	0.00
ATOM	4894	N	VAL	X	326	37.652	29.788	48.264	0.00	0.00
ATOM	4895	H	VAL	X	326	37.199	28.995	48.695	0.00	0.00
ATOM	4896	CA	VAL	X	326	39.165	29.631	48.031	0.00	0.00
ATOM	4897	HA	VAL	X	326	39.496	30.444	47.384	0.00	0.00
ATOM	4898	CB	VAL	X	326	39.957	29.606	49.334	0.00	0.00
ATOM	4899	HB	VAL	X	326	40.962	29.216	49.172	0.00	0.00
ATOM	4900	CG1	VAL	X	326	39.980	30.922	50.125	0.00	0.00
ATOM	4901	HG11	VAL	X	326	40.302	31.765	49.514	0.00	0.00
ATOM	4902	HG12	VAL	X	326	38.941	31.010	50.443	0.00	0.00
ATOM	4903	HG13	VAL	X	326	40.556	30.871	51.049	0.00	0.00
ATOM	4904	CG2	VAL	X	326	39.462	28.483	50.341	0.00	0.00
ATOM	4905	HG21	VAL	X	326	39.602	27.548	49.797	0.00	0.00
ATOM	4906	HG22	VAL	X	326	38.414	28.522	50.638	0.00	0.00
ATOM	4907	HG23	VAL	X	326	40.181	28.345	51.148	0.00	0.00
ATOM	4908	C	VAL	X	326	39.401	28.333	47.240	0.00	0.00
ATOM	4909	O	VAL	X	326	38.532	27.506	47.132	0.00	0.00
ATOM	4910	N	VAL	X	327	40.564	28.186	46.618	0.00	0.00
ATOM	4911	H	VAL	X	327	41.258	28.920	46.635	0.00	0.00
ATOM	4912	CA	VAL	X	327	41.086	26.842	46.129	0.00	0.00
ATOM	4913	HA	VAL	X	327	40.166	26.284	45.951	0.00	0.00
ATOM	4914	CB	VAL	X	327	41.997	26.944	44.851	0.00	0.00
ATOM	4915	HB	VAL	X	327	42.155	25.900	44.579	0.00	0.00
ATOM	4916	CG1	VAL	X	327	41.269	27.691	43.670	0.00	0.00
ATOM	4917	HG11	VAL	X	327	40.365	27.102	43.519	0.00	0.00
ATOM	4918	HG12	VAL	X	327	41.092	28.714	44.002	0.00	0.00
ATOM	4919	HG13	VAL	X	327	41.893	27.564	42.785	0.00	0.00
ATOM	4920	CG2	VAL	X	327	43.372	27.589	45.159	0.00	0.00
ATOM	4921	HG21	VAL	X	327	43.854	27.106	46.009	0.00	0.00
ATOM	4922	HG22	VAL	X	327	43.272	28.645	45.410	0.00	0.00
ATOM	4923	HG23	VAL	X	327	44.053	27.369	44.337	0.00	0.00
ATOM	4924	C	VAL	X	327	41.782	26.070	47.214	0.00	0.00
ATOM	4925	O	VAL	X	327	42.182	26.590	48.276	0.00	0.00
ATOM	4926	N	LYS	X	328	42.012	24.767	47.050	0.00	0.00
ATOM	4927	H	LYS	X	328	41.449	24.384	46.303	0.00	0.00
ATOM	4928	CA	LYS	X	328	42.478	23.863	48.065	0.00	0.00
ATOM	4929	HA	LYS	X	328	41.928	23.991	48.997	0.00	0.00
ATOM	4930	CB	LYS	X	328	42.275	22.395	47.496	0.00	0.00
ATOM	4931	HB2	LYS	X	328	41.254	22.433	47.116	0.00	0.00
ATOM	4932	HB3	LYS	X	328	42.845	22.159	46.597	0.00	0.00
ATOM	4933	CG	LYS	X	328	42.341	21.208	48.512	0.00	0.00
ATOM	4934	HG2	LYS	X	328	42.101	21.612	49.496	0.00	0.00
ATOM	4935	HG3	LYS	X	328	41.677	20.400	48.204	0.00	0.00
ATOM	4936	CD	LYS	X	328	43.727	20.528	48.554	0.00	0.00
ATOM	4937	HD2	LYS	X	328	44.511	21.285	48.558	0.00	0.00
ATOM	4938	HD3	LYS	X	328	43.797	19.850	49.405	0.00	0.00
ATOM	4939	CE	LYS	X	328	43.905	19.702	47.246	0.00	0.00
ATOM	4940	HE2	LYS	X	328	43.140	18.932	47.149	0.00	0.00
ATOM	4941	HE3	LYS	X	328	43.687	20.415	46.451	0.00	0.00
ATOM	4942	NZ	LYS	X	328	45.265	19.261	47.106	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	45.516	18.547	47.775	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	45.339	18.785	46.218	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	45.943	20.007	47.170	0.00	0.00
ATOM	4946	C	LYS	X	328	43.948	24.074	48.487	0.00	0.00
ATOM	4947	O	LYS	X	328	44.307	23.823	49.601	0.00	0.00
ATOM	4948	N	ASP	X	329	44.783	24.572	47.579	0.00	0.00
ATOM	4949	H	ASP	X	329	44.384	24.636	46.653	0.00	0.00
ATOM	4950	CA	ASP	X	329	46.227	24.652	47.802	0.00	0.00
ATOM	4951	HA	ASP	X	329	46.531	24.222	48.757	0.00	0.00
ATOM	4952	CB	ASP	X	329	46.921	23.748	46.780	0.00	0.00
ATOM	4953	HB2	ASP	X	329	46.719	24.102	45.769	0.00	0.00
ATOM	4954	HB3	ASP	X	329	47.979	23.841	47.027	0.00	0.00
ATOM	4955	CG	ASP	X	329	46.496	22.327	46.763	0.00	0.00

ATOM	4956	OD1	ASP	X	329	46.950	21.424	47.480	0.00	0.00
ATOM	4957	OD2	ASP	X	329	45.488	22.059	46.027	0.00	0.00
ATOM	4958	C	ASP	X	329	46.688	26.112	47.643	0.00	0.00
ATOM	4959	O	ASP	X	329	47.918	26.189	47.447	0.00	0.00
ATOM	4960	N	GLU	X	330	45.836	27.148	47.775	0.00	0.00
ATOM	4961	H	GLU	X	330	44.899	26.873	48.033	0.00	0.00
ATOM	4962	CA	GLU	X	330	46.132	28.630	47.572	0.00	0.00
ATOM	4963	HA	GLU	X	330	45.529	28.987	46.737	0.00	0.00
ATOM	4964	CB	GLU	X	330	45.565	29.431	48.818	0.00	0.00
ATOM	4965	HB2	GLU	X	330	45.854	28.835	49.683	0.00	0.00
ATOM	4966	HB3	GLU	X	330	46.100	30.381	48.804	0.00	0.00
ATOM	4967	CG	GLU	X	330	44.066	29.707	48.851	0.00	0.00
ATOM	4968	HG2	GLU	X	330	43.502	28.776	48.789	0.00	0.00
ATOM	4969	HG3	GLU	X	330	43.725	30.217	49.752	0.00	0.00
ATOM	4970	CD	GLU	X	330	43.503	30.463	47.630	0.00	0.00
ATOM	4971	OE1	GLU	X	330	44.186	31.409	47.240	0.00	0.00
ATOM	4972	OE2	GLU	X	330	42.351	30.159	47.216	0.00	0.00
ATOM	4973	C	GLU	X	330	47.599	29.061	47.297	0.00	0.00
ATOM	4974	O	GLU	X	330	47.950	29.429	46.208	0.00	0.00
ATOM	4975	N	GLY	X	331	48.407	28.850	48.358	0.00	0.00
ATOM	4976	H	GLY	X	331	48.038	28.334	49.144	0.00	0.00
ATOM	4977	CA	GLY	X	331	49.732	29.473	48.339	0.00	0.00
ATOM	4978	HA2	GLY	X	331	49.612	30.521	48.064	0.00	0.00
ATOM	4979	HA3	GLY	X	331	50.122	29.564	49.352	0.00	0.00
ATOM	4980	C	GLY	X	331	50.752	28.769	47.454	0.00	0.00
ATOM	4981	O	GLY	X	331	51.822	29.351	47.280	0.00	0.00
ATOM	4982	N	SER	X	332	50.512	27.581	46.924	0.00	0.00
ATOM	4983	H	SER	X	332	49.626	27.117	47.066	0.00	0.00
ATOM	4984	CA	SER	X	332	51.493	26.836	46.151	0.00	0.00
ATOM	4985	HA	SER	X	332	52.341	26.642	46.808	0.00	0.00
ATOM	4986	CB	SER	X	332	50.823	25.521	45.694	0.00	0.00
ATOM	4987	HB2	SER	X	332	51.588	24.904	45.223	0.00	0.00
ATOM	4988	HB3	SER	X	332	50.346	25.114	46.585	0.00	0.00
ATOM	4989	OG	SER	X	332	49.813	25.751	44.724	0.00	0.00
ATOM	4990	HG	SER	X	332	49.386	24.891	44.714	0.00	0.00
ATOM	4991	C	SER	X	332	52.103	27.698	44.960	0.00	0.00
ATOM	4992	O	SER	X	332	53.290	27.740	44.649	0.00	0.00
ATOM	4993	N	TYR	X	333	51.226	28.400	44.213	0.00	0.00
ATOM	4994	H	TYR	X	333	50.256	28.386	44.494	0.00	0.00
ATOM	4995	CA	TYR	X	333	51.642	29.096	42.961	0.00	0.00
ATOM	4996	HA	TYR	X	333	52.117	28.451	42.222	0.00	0.00
ATOM	4997	CB	TYR	X	333	50.408	29.807	42.430	0.00	0.00
ATOM	4998	HB2	TYR	X	333	49.751	28.972	42.188	0.00	0.00
ATOM	4999	HB3	TYR	X	333	50.019	30.369	43.279	0.00	0.00
ATOM	5000	CG	TYR	X	333	50.600	30.692	41.212	0.00	0.00
ATOM	5001	CD1	TYR	X	333	50.266	30.230	39.941	0.00	0.00
ATOM	5002	HD1	TYR	X	333	49.939	29.206	39.842	0.00	0.00
ATOM	5003	CE1	TYR	X	333	50.474	31.061	38.746	0.00	0.00
ATOM	5004	HE1	TYR	X	333	50.246	30.636	37.779	0.00	0.00
ATOM	5005	CZ	TYR	X	333	50.933	32.385	38.947	0.00	0.00
ATOM	5006	OH	TYR	X	333	51.121	33.137	37.845	0.00	0.00
ATOM	5007	HH	TYR	X	333	50.935	32.603	37.069	0.00	0.00
ATOM	5008	CE2	TYR	X	333	51.212	32.860	40.262	0.00	0.00
ATOM	5009	HE2	TYR	X	333	51.677	33.835	40.289	0.00	0.00
ATOM	5010	CD2	TYR	X	333	50.994	32.026	41.359	0.00	0.00
ATOM	5011	HD2	TYR	X	333	51.152	32.517	42.308	0.00	0.00
ATOM	5012	C	TYR	X	333	52.721	30.148	43.324	0.00	0.00
ATOM	5013	O	TYR	X	333	53.689	30.289	42.555	0.00	0.00
ATOM	5014	N	PHE	X	334	52.723	30.746	44.517	0.00	0.00
ATOM	5015	H	PHE	X	334	51.958	30.553	45.147	0.00	0.00
ATOM	5016	CA	PHE	X	334	53.589	31.859	44.843	0.00	0.00
ATOM	5017	HA	PHE	X	334	53.657	32.541	43.995	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.908	32.621	46.030	0.00	0.00
ATOM	5019	HB2	PHE	X	334	52.671	31.905	46.818	0.00	0.00
ATOM	5020	HB3	PHE	X	334	53.586	33.353	46.469	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.573	33.205	45.663	0.00	0.00
ATOM	5022	CD1	PHE	X	334	50.360	32.375	45.682	0.00	0.00

ATOM	5023	HD1	PHE	X	334	50.448	31.431	46.200	0.00	0.00
ATOM	5024	CE1	PHE	X	334	49.163	32.955	45.335	0.00	0.00
ATOM	5025	HE1	PHE	X	334	48.234	32.409	45.403	0.00	0.00
ATOM	5026	CZ	PHE	X	334	49.126	34.336	44.866	0.00	0.00
ATOM	5027	HZ	PHE	X	334	48.216	34.796	44.509	0.00	0.00
ATOM	5028	CE2	PHE	X	334	50.288	35.112	44.833	0.00	0.00
ATOM	5029	HE2	PHE	X	334	50.223	36.144	44.520	0.00	0.00
ATOM	5030	CD2	PHE	X	334	51.506	34.541	45.244	0.00	0.00
ATOM	5031	HD2	PHE	X	334	52.378	35.173	45.162	0.00	0.00
ATOM	5032	C	PHE	X	334	54.990	31.465	45.108	0.00	0.00
ATOM	5033	O	PHE	X	334	55.897	32.183	44.888	0.00	0.00
ATOM	5034	N	LEU	X	335	55.220	30.197	45.514	0.00	0.00
ATOM	5035	H	LEU	X	335	54.391	29.630	45.613	0.00	0.00
ATOM	5036	CA	LEU	X	335	56.468	29.750	46.142	0.00	0.00
ATOM	5037	HA	LEU	X	335	56.761	30.415	46.954	0.00	0.00
ATOM	5038	CB	LEU	X	335	56.267	28.388	46.846	0.00	0.00
ATOM	5039	HB2	LEU	X	335	55.745	27.702	46.179	0.00	0.00
ATOM	5040	HB3	LEU	X	335	57.199	27.937	47.186	0.00	0.00
ATOM	5041	CG	LEU	X	335	55.345	28.472	48.105	0.00	0.00
ATOM	5042	HG	LEU	X	335	54.394	28.953	47.876	0.00	0.00
ATOM	5043	CD1	LEU	X	335	55.046	27.034	48.605	0.00	0.00
ATOM	5044	HD11	LEU	X	335	54.531	26.531	47.786	0.00	0.00
ATOM	5045	HD12	LEU	X	335	54.267	27.109	49.365	0.00	0.00
ATOM	5046	HD13	LEU	X	335	55.942	26.533	48.973	0.00	0.00
ATOM	5047	CD2	LEU	X	335	56.089	29.197	49.225	0.00	0.00
ATOM	5048	HD21	LEU	X	335	55.361	29.210	50.035	0.00	0.00
ATOM	5049	HD22	LEU	X	335	57.066	28.765	49.445	0.00	0.00
ATOM	5050	HD23	LEU	X	335	56.300	30.210	48.882	0.00	0.00
ATOM	5051	C	LEU	X	335	57.684	29.743	45.156	0.00	0.00
ATOM	5052	O	LEU	X	335	58.776	30.207	45.510	0.00	0.00
ATOM	5053	N	VAL	X	336	57.422	29.360	43.910	0.00	0.00
ATOM	5054	H	VAL	X	336	56.495	29.174	43.554	0.00	0.00
ATOM	5055	CA	VAL	X	336	58.518	29.286	42.915	0.00	0.00
ATOM	5056	HA	VAL	X	336	59.355	28.729	43.335	0.00	0.00
ATOM	5057	CB	VAL	X	336	58.020	28.609	41.669	0.00	0.00
ATOM	5058	HB	VAL	X	336	58.733	28.463	40.858	0.00	0.00
ATOM	5059	CG1	VAL	X	336	57.534	27.198	41.956	0.00	0.00
ATOM	5060	HG11	VAL	X	336	57.230	26.748	41.011	0.00	0.00
ATOM	5061	HG12	VAL	X	336	58.317	26.605	42.429	0.00	0.00
ATOM	5062	HG13	VAL	X	336	56.663	27.134	42.608	0.00	0.00
ATOM	5063	CG2	VAL	X	336	56.826	29.315	41.001	0.00	0.00
ATOM	5064	HG21	VAL	X	336	57.081	30.288	40.582	0.00	0.00
ATOM	5065	HG22	VAL	X	336	56.023	29.381	41.735	0.00	0.00
ATOM	5066	HG23	VAL	X	336	56.401	28.763	40.162	0.00	0.00
ATOM	5067	C	VAL	X	336	59.149	30.626	42.518	0.00	0.00
ATOM	5068	O	VAL	X	336	60.107	30.591	41.750	0.00	0.00
ATOM	5069	N	TYR	X	337	58.595	31.772	42.955	0.00	0.00
ATOM	5070	H	TYR	X	337	57.797	31.707	43.571	0.00	0.00
ATOM	5071	CA	TYR	X	337	59.099	33.122	42.625	0.00	0.00
ATOM	5072	HA	TYR	X	337	59.500	33.156	41.611	0.00	0.00
ATOM	5073	CB	TYR	X	337	57.984	34.186	42.762	0.00	0.00
ATOM	5074	HB2	TYR	X	337	57.459	34.117	43.715	0.00	0.00
ATOM	5075	HB3	TYR	X	337	58.452	35.169	42.709	0.00	0.00
ATOM	5076	CG	TYR	X	337	56.999	34.011	41.555	0.00	0.00
ATOM	5077	CD1	TYR	X	337	57.038	34.883	40.507	0.00	0.00
ATOM	5078	HD1	TYR	X	337	57.807	35.641	40.488	0.00	0.00
ATOM	5079	CE1	TYR	X	337	56.230	34.754	39.364	0.00	0.00
ATOM	5080	HE1	TYR	X	337	56.442	35.310	38.463	0.00	0.00
ATOM	5081	CZ	TYR	X	337	55.267	33.701	39.308	0.00	0.00
ATOM	5082	OH	TYR	X	337	54.492	33.428	38.220	0.00	0.00
ATOM	5083	HH	TYR	X	337	54.645	34.060	37.513	0.00	0.00
ATOM	5084	CE2	TYR	X	337	55.111	32.863	40.458	0.00	0.00
ATOM	5085	HE2	TYR	X	337	54.383	32.065	40.452	0.00	0.00
ATOM	5086	CD2	TYR	X	337	56.031	32.983	41.556	0.00	0.00
ATOM	5087	HD2	TYR	X	337	55.925	32.433	42.479	0.00	0.00
ATOM	5088	C	TYR	X	337	60.337	33.451	43.524	0.00	0.00
ATOM	5089	O	TYR	X	337	61.119	34.371	43.177	0.00	0.00

ATOM	5090	N	GLY	X	338	60.571	32.813	44.629	0.00	0.00
ATOM	5091	H	GLY	X	338	59.935	32.095	44.945	0.00	0.00
ATOM	5092	CA	GLY	X	338	61.602	33.073	45.587	0.00	0.00
ATOM	5093	HA2	GLY	X	338	62.587	33.040	45.120	0.00	0.00
ATOM	5094	HA3	GLY	X	338	61.616	34.125	45.870	0.00	0.00
ATOM	5095	C	GLY	X	338	61.803	32.208	46.858	0.00	0.00
ATOM	5096	O	GLY	X	338	62.731	32.466	47.663	0.00	0.00
ATOM	5097	N	ALA	X	339	60.927	31.260	47.123	0.00	0.00
ATOM	5098	H	ALA	X	339	60.108	31.044	46.572	0.00	0.00
ATOM	5099	CA	ALA	X	339	61.286	30.307	48.171	0.00	0.00
ATOM	5100	HA	ALA	X	339	61.522	30.829	49.098	0.00	0.00
ATOM	5101	CB	ALA	X	339	59.913	29.648	48.578	0.00	0.00
ATOM	5102	HB1	ALA	X	339	60.113	29.046	49.464	0.00	0.00
ATOM	5103	HB2	ALA	X	339	59.564	28.989	47.784	0.00	0.00
ATOM	5104	HB3	ALA	X	339	59.155	30.398	48.807	0.00	0.00
ATOM	5105	C	ALA	X	339	62.405	29.314	47.862	0.00	0.00
ATOM	5106	O	ALA	X	339	62.354	28.769	46.777	0.00	0.00
ATOM	5107	N	PRO	X	340	63.363	28.938	48.695	0.00	0.00
ATOM	5108	CD	PRO	X	340	63.367	29.290	50.099	0.00	0.00
ATOM	5109	HD2	PRO	X	340	62.409	29.007	50.534	0.00	0.00
ATOM	5110	HD3	PRO	X	340	63.721	30.318	50.179	0.00	0.00
ATOM	5111	CG	PRO	X	340	64.583	28.548	50.674	0.00	0.00
ATOM	5112	HG2	PRO	X	340	64.285	27.565	51.040	0.00	0.00
ATOM	5113	HG3	PRO	X	340	65.076	29.166	51.424	0.00	0.00
ATOM	5114	CB	PRO	X	340	65.530	28.363	49.496	0.00	0.00
ATOM	5115	HB2	PRO	X	340	66.262	27.567	49.631	0.00	0.00
ATOM	5116	HB3	PRO	X	340	66.010	29.317	49.279	0.00	0.00
ATOM	5117	CA	PRO	X	340	64.506	28.135	48.340	0.00	0.00
ATOM	5118	HA	PRO	X	340	64.970	28.540	47.441	0.00	0.00
ATOM	5119	C	PRO	X	340	64.112	26.672	48.141	0.00	0.00
ATOM	5120	O	PRO	X	340	63.316	26.221	48.960	0.00	0.00
ATOM	5121	N	GLY	X	341	64.697	26.075	47.132	0.00	0.00
ATOM	5122	H	GLY	X	341	65.398	26.583	46.612	0.00	0.00
ATOM	5123	CA	GLY	X	341	64.391	24.669	46.718	0.00	0.00
ATOM	5124	HA2	GLY	X	341	65.271	24.330	46.171	0.00	0.00
ATOM	5125	HA3	GLY	X	341	64.320	24.026	47.596	0.00	0.00
ATOM	5126	C	GLY	X	341	63.154	24.500	45.795	0.00	0.00
ATOM	5127	O	GLY	X	341	62.972	23.379	45.349	0.00	0.00
ATOM	5128	N	PHE	X	342	62.381	25.558	45.542	0.00	0.00
ATOM	5129	H	PHE	X	342	62.489	26.411	46.071	0.00	0.00
ATOM	5130	CA	PHE	X	342	61.247	25.388	44.692	0.00	0.00
ATOM	5131	HA	PHE	X	342	60.941	24.342	44.720	0.00	0.00
ATOM	5132	CB	PHE	X	342	60.160	26.336	45.187	0.00	0.00
ATOM	5133	HB2	PHE	X	342	60.600	27.304	45.427	0.00	0.00
ATOM	5134	HB3	PHE	X	342	59.437	26.519	44.393	0.00	0.00
ATOM	5135	CG	PHE	X	342	59.363	25.861	46.475	0.00	0.00
ATOM	5136	CD1	PHE	X	342	58.136	25.168	46.423	0.00	0.00
ATOM	5137	HD1	PHE	X	342	57.640	25.010	45.477	0.00	0.00
ATOM	5138	CE1	PHE	X	342	57.516	24.773	47.587	0.00	0.00
ATOM	5139	HE1	PHE	X	342	56.575	24.247	47.533	0.00	0.00
ATOM	5140	CZ	PHE	X	342	58.130	24.964	48.804	0.00	0.00
ATOM	5141	HZ	PHE	X	342	57.637	24.624	49.703	0.00	0.00
ATOM	5142	CE2	PHE	X	342	59.342	25.668	48.860	0.00	0.00
ATOM	5143	HE2	PHE	X	342	59.815	25.759	49.827	0.00	0.00
ATOM	5144	CD2	PHE	X	342	59.996	26.094	47.726	0.00	0.00
ATOM	5145	HD2	PHE	X	342	60.877	26.712	47.817	0.00	0.00
ATOM	5146	C	PHE	X	342	61.508	25.666	43.220	0.00	0.00
ATOM	5147	O	PHE	X	342	62.320	26.490	42.839	0.00	0.00
ATOM	5148	N	SER	X	343	60.763	24.975	42.302	0.00	0.00
ATOM	5149	H	SER	X	343	60.029	24.374	42.647	0.00	0.00
ATOM	5150	CA	SER	X	343	60.752	25.105	40.834	0.00	0.00
ATOM	5151	HA	SER	X	343	60.801	26.176	40.634	0.00	0.00
ATOM	5152	CB	SER	X	343	62.090	24.538	40.229	0.00	0.00
ATOM	5153	HB2	SER	X	343	62.873	25.075	40.765	0.00	0.00
ATOM	5154	HB3	SER	X	343	62.213	23.468	40.397	0.00	0.00
ATOM	5155	OG	SER	X	343	62.127	24.728	38.812	0.00	0.00
ATOM	5156	HG	SER	X	343	63.045	24.744	38.530	0.00	0.00

ATOM	5157	C	SER	X	343	59.462	24.486	40.206	0.00	0.00
ATOM	5158	O	SER	X	343	58.857	23.542	40.733	0.00	0.00
ATOM	5159	N	LYS	X	344	59.052	25.039	39.014	0.00	0.00
ATOM	5160	H	LYS	X	344	59.598	25.782	38.600	0.00	0.00
ATOM	5161	CA	LYS	X	344	58.120	24.263	38.221	0.00	0.00
ATOM	5162	HA	LYS	X	344	57.256	23.954	38.809	0.00	0.00
ATOM	5163	CB	LYS	X	344	57.571	25.149	37.070	0.00	0.00
ATOM	5164	HB2	LYS	X	344	56.644	24.740	36.668	0.00	0.00
ATOM	5165	HB3	LYS	X	344	57.310	26.145	37.427	0.00	0.00
ATOM	5166	CG	LYS	X	344	58.516	25.293	35.876	0.00	0.00
ATOM	5167	HG2	LYS	X	344	59.495	25.654	36.192	0.00	0.00
ATOM	5168	HG3	LYS	X	344	58.595	24.285	35.470	0.00	0.00
ATOM	5169	CD	LYS	X	344	58.014	26.209	34.703	0.00	0.00
ATOM	5170	HD2	LYS	X	344	56.970	25.969	34.501	0.00	0.00
ATOM	5171	HD3	LYS	X	344	58.062	27.254	35.009	0.00	0.00
ATOM	5172	CE	LYS	X	344	58.797	26.006	33.461	0.00	0.00
ATOM	5173	HE2	LYS	X	344	58.553	25.003	33.111	0.00	0.00
ATOM	5174	HE3	LYS	X	344	58.414	26.686	32.699	0.00	0.00
ATOM	5175	NZ	LYS	X	344	60.290	26.146	33.652	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	60.616	25.315	34.124	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	60.749	26.090	32.754	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	60.649	27.005	34.044	0.00	0.00
ATOM	5179	C	LYS	X	344	58.648	22.989	37.603	0.00	0.00
ATOM	5180	O	LYS	X	344	57.843	22.051	37.310	0.00	0.00
ATOM	5181	N	ASP	X	345	59.949	22.912	37.326	0.00	0.00
ATOM	5182	H	ASP	X	345	60.603	23.638	37.580	0.00	0.00
ATOM	5183	CA	ASP	X	345	60.513	21.856	36.475	0.00	0.00
ATOM	5184	HA	ASP	X	345	59.825	21.684	35.646	0.00	0.00
ATOM	5185	CB	ASP	X	345	61.888	22.408	36.001	0.00	0.00
ATOM	5186	HB2	ASP	X	345	62.610	22.643	36.783	0.00	0.00
ATOM	5187	HB3	ASP	X	345	62.417	21.655	35.416	0.00	0.00
ATOM	5188	CG	ASP	X	345	61.674	23.601	35.023	0.00	0.00
ATOM	5189	OD1	ASP	X	345	61.190	23.410	33.911	0.00	0.00
ATOM	5190	OD2	ASP	X	345	61.786	24.759	35.441	0.00	0.00
ATOM	5191	C	ASP	X	345	60.728	20.536	37.210	0.00	0.00
ATOM	5192	O	ASP	X	345	60.855	19.510	36.605	0.00	0.00
ATOM	5193	N	ASN	X	346	60.721	20.483	38.544	0.00	0.00
ATOM	5194	H	ASN	X	346	60.691	21.386	38.995	0.00	0.00
ATOM	5195	CA	ASN	X	346	60.902	19.348	39.419	0.00	0.00
ATOM	5196	HA	ASN	X	346	60.725	18.411	38.892	0.00	0.00
ATOM	5197	CB	ASN	X	346	62.353	19.387	39.928	0.00	0.00
ATOM	5198	HB2	ASN	X	346	62.612	18.432	40.386	0.00	0.00
ATOM	5199	HB3	ASN	X	346	62.946	19.486	39.018	0.00	0.00
ATOM	5200	CG	ASN	X	346	62.681	20.456	40.905	0.00	0.00
ATOM	5201	OD1	ASN	X	346	61.951	20.689	41.823	0.00	0.00
ATOM	5202	ND2	ASN	X	346	63.731	21.226	40.749	0.00	0.00
ATOM	5203	HD21	ASN	X	346	63.977	21.765	41.567	0.00	0.00
ATOM	5204	HD22	ASN	X	346	64.464	20.853	40.163	0.00	0.00
ATOM	5205	C	ASN	X	346	59.780	19.266	40.467	0.00	0.00
ATOM	5206	O	ASN	X	346	58.924	20.111	40.609	0.00	0.00
ATOM	5207	N	GLU	X	347	59.881	18.234	41.327	0.00	0.00
ATOM	5208	H	GLU	X	347	60.602	17.544	41.171	0.00	0.00
ATOM	5209	CA	GLU	X	347	58.855	17.862	42.376	0.00	0.00
ATOM	5210	HA	GLU	X	347	57.863	18.037	41.960	0.00	0.00
ATOM	5211	CB	GLU	X	347	58.834	16.372	42.641	0.00	0.00
ATOM	5212	HB2	GLU	X	347	59.890	16.107	42.695	0.00	0.00
ATOM	5213	HB3	GLU	X	347	58.259	16.273	43.562	0.00	0.00
ATOM	5214	CG	GLU	X	347	58.314	15.543	41.454	0.00	0.00
ATOM	5215	HG2	GLU	X	347	57.302	15.855	41.195	0.00	0.00
ATOM	5216	HG3	GLU	X	347	58.860	15.802	40.546	0.00	0.00
ATOM	5217	CD	GLU	X	347	58.350	14.027	41.656	0.00	0.00
ATOM	5218	OE1	GLU	X	347	57.521	13.473	42.386	0.00	0.00
ATOM	5219	OE2	GLU	X	347	59.181	13.335	41.006	0.00	0.00
ATOM	5220	C	GLU	X	347	58.951	18.768	43.613	0.00	0.00
ATOM	5221	O	GLU	X	347	58.163	18.592	44.548	0.00	0.00
ATOM	5222	N	SER	X	348	59.924	19.619	43.800	0.00	0.00
ATOM	5223	H	SER	X	348	60.519	19.745	42.994	0.00	0.00

ATOM	5224	CA	SER	X	348	60.057	20.638	44.836	0.00	0.00
ATOM	5225	HA	SER	X	348	61.013	21.158	44.768	0.00	0.00
ATOM	5226	CB	SER	X	348	59.050	21.801	44.731	0.00	0.00
ATOM	5227	HB2	SER	X	348	58.031	21.417	44.763	0.00	0.00
ATOM	5228	HB3	SER	X	348	59.200	22.493	45.560	0.00	0.00
ATOM	5229	OG	SER	X	348	59.207	22.425	43.487	0.00	0.00
ATOM	5230	HG	SER	X	348	59.000	21.854	42.744	0.00	0.00
ATOM	5231	C	SER	X	348	60.063	20.093	46.276	0.00	0.00
ATOM	5232	O	SER	X	348	59.236	20.471	47.093	0.00	0.00
ATOM	5233	N	LEU	X	349	60.993	19.134	46.533	0.00	0.00
ATOM	5234	H	LEU	X	349	61.760	19.070	45.879	0.00	0.00
ATOM	5235	CA	LEU	X	349	61.268	18.633	47.898	0.00	0.00
ATOM	5236	HA	LEU	X	349	60.404	18.679	48.561	0.00	0.00
ATOM	5237	CB	LEU	X	349	61.819	17.157	47.792	0.00	0.00
ATOM	5238	HB2	LEU	X	349	62.749	17.077	47.230	0.00	0.00
ATOM	5239	HB3	LEU	X	349	62.179	16.908	48.790	0.00	0.00
ATOM	5240	CG	LEU	X	349	60.885	15.976	47.351	0.00	0.00
ATOM	5241	HG	LEU	X	349	61.479	15.067	47.447	0.00	0.00
ATOM	5242	CD1	LEU	X	349	59.630	15.955	48.289	0.00	0.00
ATOM	5243	HD11	LEU	X	349	59.961	15.782	49.313	0.00	0.00
ATOM	5244	HD12	LEU	X	349	59.092	15.096	47.890	0.00	0.00
ATOM	5245	HD13	LEU	X	349	59.045	16.858	48.110	0.00	0.00
ATOM	5246	CD2	LEU	X	349	60.445	16.126	45.885	0.00	0.00
ATOM	5247	HD21	LEU	X	349	61.288	16.268	45.209	0.00	0.00
ATOM	5248	HD22	LEU	X	349	59.918	15.202	45.648	0.00	0.00
ATOM	5249	HD23	LEU	X	349	59.689	16.906	45.798	0.00	0.00
ATOM	5250	C	LEU	X	349	62.303	19.596	48.542	0.00	0.00
ATOM	5251	O	LEU	X	349	63.224	20.045	47.867	0.00	0.00
ATOM	5252	N	ILE	X	350	62.056	19.979	49.774	0.00	0.00
ATOM	5253	H	ILE	X	350	61.321	19.490	50.266	0.00	0.00
ATOM	5254	CA	ILE	X	350	62.808	20.988	50.527	0.00	0.00
ATOM	5255	HA	ILE	X	350	63.633	21.287	49.881	0.00	0.00
ATOM	5256	CB	ILE	X	350	61.999	22.260	50.738	0.00	0.00
ATOM	5257	HB	ILE	X	350	62.726	22.925	51.206	0.00	0.00
ATOM	5258	CG2	ILE	X	350	61.640	22.877	49.386	0.00	0.00
ATOM	5259	HG21	ILE	X	350	62.434	22.965	48.645	0.00	0.00
ATOM	5260	HG22	ILE	X	350	61.213	23.871	49.523	0.00	0.00
ATOM	5261	HG23	ILE	X	350	60.837	22.333	48.889	0.00	0.00
ATOM	5262	CG1	ILE	X	350	60.801	22.158	51.697	0.00	0.00
ATOM	5263	HG12	ILE	X	350	60.110	21.594	51.070	0.00	0.00
ATOM	5264	HG13	ILE	X	350	61.099	21.569	52.564	0.00	0.00
ATOM	5265	CD1	ILE	X	350	60.055	23.436	52.060	0.00	0.00
ATOM	5266	HD11	ILE	X	350	60.703	24.240	52.411	0.00	0.00
ATOM	5267	HD12	ILE	X	350	59.326	23.182	52.830	0.00	0.00
ATOM	5268	HD13	ILE	X	350	59.529	23.726	51.151	0.00	0.00
ATOM	5269	C	ILE	X	350	63.423	20.419	51.810	0.00	0.00
ATOM	5270	O	ILE	X	350	62.749	19.656	52.438	0.00	0.00
ATOM	5271	N	SER	X	351	64.645	20.772	52.139	0.00	0.00
ATOM	5272	H	SER	X	351	65.186	21.347	51.510	0.00	0.00
ATOM	5273	CA	SER	X	351	65.198	20.469	53.456	0.00	0.00
ATOM	5274	HA	SER	X	351	64.940	19.435	53.685	0.00	0.00
ATOM	5275	CB	SER	X	351	66.724	20.648	53.473	0.00	0.00
ATOM	5276	HB2	SER	X	351	67.072	20.454	54.488	0.00	0.00
ATOM	5277	HB3	SER	X	351	67.222	20.023	52.733	0.00	0.00
ATOM	5278	OG	SER	X	351	67.011	21.990	53.160	0.00	0.00
ATOM	5279	HG	SER	X	351	66.832	22.041	52.219	0.00	0.00
ATOM	5280	C	SER	X	351	64.556	21.285	54.517	0.00	0.00
ATOM	5281	O	SER	X	351	63.870	22.270	54.259	0.00	0.00
ATOM	5282	N	ARG	X	352	64.819	20.849	55.770	0.00	0.00
ATOM	5283	H	ARG	X	352	65.111	19.891	55.896	0.00	0.00
ATOM	5284	CA	ARG	X	352	64.357	21.554	56.982	0.00	0.00
ATOM	5285	HA	ARG	X	352	63.269	21.630	56.999	0.00	0.00
ATOM	5286	CB	ARG	X	352	64.808	20.754	58.214	0.00	0.00
ATOM	5287	HB2	ARG	X	352	64.534	19.713	58.042	0.00	0.00
ATOM	5288	HB3	ARG	X	352	65.884	20.927	58.177	0.00	0.00
ATOM	5289	CG	ARG	X	352	64.263	21.267	59.578	0.00	0.00
ATOM	5290	HG2	ARG	X	352	64.924	20.879	60.353	0.00	0.00

ATOM	5291	HG3	ARG	X	352	64.237	22.355	59.644	0.00	0.00
ATOM	5292	CD	ARG	X	352	62.802	20.869	59.769	0.00	0.00
ATOM	5293	HD2	ARG	X	352	62.155	21.423	59.090	0.00	0.00
ATOM	5294	HD3	ARG	X	352	62.656	19.818	59.518	0.00	0.00
ATOM	5295	NE	ARG	X	352	62.376	21.054	61.167	0.00	0.00
ATOM	5296	HE	ARG	X	352	63.087	21.106	61.882	0.00	0.00
ATOM	5297	CZ	ARG	X	352	61.210	21.226	61.653	0.00	0.00
ATOM	5298	NH1	ARG	X	352	60.060	21.197	60.951	0.00	0.00
ATOM	5299	HH11	ARG	X	352	60.098	20.825	60.013	0.00	0.00
ATOM	5300	HH12	ARG	X	352	59.166	21.307	61.409	0.00	0.00
ATOM	5301	NH2	ARG	X	352	61.067	21.345	62.967	0.00	0.00
ATOM	5302	HH21	ARG	X	352	61.866	21.328	63.585	0.00	0.00
ATOM	5303	HH22	ARG	X	352	60.174	21.446	63.427	0.00	0.00
ATOM	5304	C	ARG	X	352	64.845	23.003	57.019	0.00	0.00
ATOM	5305	O	ARG	X	352	64.087	23.882	57.338	0.00	0.00
ATOM	5306	N	ALA	X	353	66.076	23.219	56.550	0.00	0.00
ATOM	5307	H	ALA	X	353	66.601	22.425	56.211	0.00	0.00
ATOM	5308	CA	ALA	X	353	66.734	24.547	56.520	0.00	0.00
ATOM	5309	HA	ALA	X	353	66.586	25.023	57.490	0.00	0.00
ATOM	5310	CB	ALA	X	353	68.187	24.483	56.218	0.00	0.00
ATOM	5311	HB1	ALA	X	353	68.661	25.460	56.123	0.00	0.00
ATOM	5312	HB2	ALA	X	353	68.301	23.917	55.294	0.00	0.00
ATOM	5313	HB3	ALA	X	353	68.801	23.895	56.900	0.00	0.00
ATOM	5314	C	ALA	X	353	66.047	25.463	55.502	0.00	0.00
ATOM	5315	O	ALA	X	353	65.751	26.607	55.765	0.00	0.00
ATOM	5316	N	GLU	X	354	65.628	24.929	54.379	0.00	0.00
ATOM	5317	H	GLU	X	354	65.776	23.950	54.179	0.00	0.00
ATOM	5318	CA	GLU	X	354	65.011	25.713	53.288	0.00	0.00
ATOM	5319	HA	GLU	X	354	65.652	26.576	53.111	0.00	0.00
ATOM	5320	CB	GLU	X	354	65.060	24.774	52.019	0.00	0.00
ATOM	5321	HB2	GLU	X	354	64.771	23.740	52.207	0.00	0.00
ATOM	5322	HB3	GLU	X	354	64.415	25.210	51.256	0.00	0.00
ATOM	5323	CG	GLU	X	354	66.456	24.802	51.488	0.00	0.00
ATOM	5324	HG2	GLU	X	354	66.679	25.798	51.108	0.00	0.00
ATOM	5325	HG3	GLU	X	354	67.142	24.610	52.313	0.00	0.00
ATOM	5326	CD	GLU	X	354	66.696	23.710	50.389	0.00	0.00
ATOM	5327	OE1	GLU	X	354	66.358	22.504	50.604	0.00	0.00
ATOM	5328	OE2	GLU	X	354	67.558	23.990	49.557	0.00	0.00
ATOM	5329	C	GLU	X	354	63.554	26.032	53.688	0.00	0.00
ATOM	5330	O	GLU	X	354	63.058	27.079	53.384	0.00	0.00
ATOM	5331	N	PHE	X	355	62.842	25.149	54.407	0.00	0.00
ATOM	5332	H	PHE	X	355	63.194	24.213	54.547	0.00	0.00
ATOM	5333	CA	PHE	X	355	61.527	25.407	55.093	0.00	0.00
ATOM	5334	HA	PHE	X	355	60.728	25.757	54.441	0.00	0.00
ATOM	5335	CB	PHE	X	355	61.021	24.096	55.733	0.00	0.00
ATOM	5336	HB2	PHE	X	355	60.847	23.399	54.913	0.00	0.00
ATOM	5337	HB3	PHE	X	355	61.778	23.643	56.374	0.00	0.00
ATOM	5338	CG	PHE	X	355	59.768	24.258	56.539	0.00	0.00
ATOM	5339	CD1	PHE	X	355	58.488	24.466	55.903	0.00	0.00
ATOM	5340	HD1	PHE	X	355	58.381	24.393	54.831	0.00	0.00
ATOM	5341	CE1	PHE	X	355	57.355	24.684	56.714	0.00	0.00
ATOM	5342	HE1	PHE	X	355	56.375	24.850	56.290	0.00	0.00
ATOM	5343	CZ	PHE	X	355	57.469	24.579	58.148	0.00	0.00
ATOM	5344	HZ	PHE	X	355	56.592	24.840	58.721	0.00	0.00
ATOM	5345	CE2	PHE	X	355	58.738	24.518	58.720	0.00	0.00
ATOM	5346	HE2	PHE	X	355	58.819	24.684	59.784	0.00	0.00
ATOM	5347	CD2	PHE	X	355	59.900	24.341	57.937	0.00	0.00
ATOM	5348	HD2	PHE	X	355	60.874	24.346	58.405	0.00	0.00
ATOM	5349	C	PHE	X	355	61.650	26.523	56.158	0.00	0.00
ATOM	5350	O	PHE	X	355	60.837	27.412	56.158	0.00	0.00
ATOM	5351	N	LEU	X	356	62.650	26.472	57.018	0.00	0.00
ATOM	5352	H	LEU	X	356	63.308	25.706	56.979	0.00	0.00
ATOM	5353	CA	LEU	X	356	62.869	27.549	57.992	0.00	0.00
ATOM	5354	HA	LEU	X	356	61.959	27.766	58.552	0.00	0.00
ATOM	5355	CB	LEU	X	356	63.918	27.065	58.983	0.00	0.00
ATOM	5356	HB2	LEU	X	356	64.882	26.790	58.554	0.00	0.00
ATOM	5357	HB3	LEU	X	356	64.081	27.889	59.678	0.00	0.00

ATOM	5358	CG	LEU	X	356	63.533	25.916	59.863	0.00	0.00
ATOM	5359	HG	LEU	X	356	63.210	25.089	59.231	0.00	0.00
ATOM	5360	CD1	LEU	X	356	64.743	25.400	60.619	0.00	0.00
ATOM	5361	HD11	LEU	X	356	65.442	25.025	59.871	0.00	0.00
ATOM	5362	HD12	LEU	X	356	64.592	24.524	61.251	0.00	0.00
ATOM	5363	HD13	LEU	X	356	65.166	26.212	61.210	0.00	0.00
ATOM	5364	CD2	LEU	X	356	62.373	26.390	60.835	0.00	0.00
ATOM	5365	HD21	LEU	X	356	62.792	27.249	61.360	0.00	0.00
ATOM	5366	HD22	LEU	X	356	61.491	26.731	60.294	0.00	0.00
ATOM	5367	HD23	LEU	X	356	61.999	25.664	61.557	0.00	0.00
ATOM	5368	C	LEU	X	356	63.174	28.997	57.334	0.00	0.00
ATOM	5369	O	LEU	X	356	62.637	30.036	57.682	0.00	0.00
ATOM	5370	N	ALA	X	357	63.970	28.992	56.255	0.00	0.00
ATOM	5371	H	ALA	X	357	64.510	28.175	56.009	0.00	0.00
ATOM	5372	CA	ALA	X	357	64.104	30.204	55.437	0.00	0.00
ATOM	5373	HA	ALA	X	357	64.283	31.015	56.143	0.00	0.00
ATOM	5374	CB	ALA	X	357	65.340	29.966	54.498	0.00	0.00
ATOM	5375	HB1	ALA	X	357	65.066	29.177	53.797	0.00	0.00
ATOM	5376	HB2	ALA	X	357	66.271	29.687	54.991	0.00	0.00
ATOM	5377	HB3	ALA	X	357	65.507	30.836	53.863	0.00	0.00
ATOM	5378	C	ALA	X	357	62.855	30.593	54.704	0.00	0.00
ATOM	5379	O	ALA	X	357	62.418	31.805	54.694	0.00	0.00
ATOM	5380	N	GLY	X	358	62.095	29.619	54.179	0.00	0.00
ATOM	5381	H	GLY	X	358	62.515	28.702	54.130	0.00	0.00
ATOM	5382	CA	GLY	X	358	60.794	29.785	53.432	0.00	0.00
ATOM	5383	HA2	GLY	X	358	60.942	30.416	52.555	0.00	0.00
ATOM	5384	HA3	GLY	X	358	60.413	28.801	53.157	0.00	0.00
ATOM	5385	C	GLY	X	358	59.681	30.371	54.274	0.00	0.00
ATOM	5386	O	GLY	X	358	58.956	31.253	53.837	0.00	0.00
ATOM	5387	N	VAL	X	359	59.652	30.038	55.558	0.00	0.00
ATOM	5388	H	VAL	X	359	60.105	29.173	55.817	0.00	0.00
ATOM	5389	CA	VAL	X	359	58.728	30.613	56.514	0.00	0.00
ATOM	5390	HA	VAL	X	359	57.781	30.368	56.032	0.00	0.00
ATOM	5391	CB	VAL	X	359	58.794	29.860	57.864	0.00	0.00
ATOM	5392	HB	VAL	X	359	59.846	29.767	58.132	0.00	0.00
ATOM	5393	CG1	VAL	X	359	58.180	30.629	59.050	0.00	0.00
ATOM	5394	HG11	VAL	X	359	58.202	30.005	59.944	0.00	0.00
ATOM	5395	HG12	VAL	X	359	58.754	31.536	59.239	0.00	0.00
ATOM	5396	HG13	VAL	X	359	57.149	30.867	58.790	0.00	0.00
ATOM	5397	CG2	VAL	X	359	58.185	28.444	57.873	0.00	0.00
ATOM	5398	HG21	VAL	X	359	57.120	28.499	57.648	0.00	0.00
ATOM	5399	HG22	VAL	X	359	58.241	28.062	58.893	0.00	0.00
ATOM	5400	HG23	VAL	X	359	58.809	27.859	57.197	0.00	0.00
ATOM	5401	C	VAL	X	359	58.925	32.128	56.715	0.00	0.00
ATOM	5402	O	VAL	X	359	57.971	32.852	56.672	0.00	0.00
ATOM	5403	N	ARG	X	360	60.227	32.537	56.707	0.00	0.00
ATOM	5404	H	ARG	X	360	60.990	31.876	56.672	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.519	33.910	56.842	0.00	0.00
ATOM	5406	HA	ARG	X	360	59.992	34.347	57.690	0.00	0.00
ATOM	5407	CB	ARG	X	360	62.023	34.231	57.080	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.627	34.041	56.192	0.00	0.00
ATOM	5409	HB3	ARG	X	360	62.225	35.303	57.074	0.00	0.00
ATOM	5410	CG	ARG	X	360	62.650	33.567	58.353	0.00	0.00
ATOM	5411	HG2	ARG	X	360	63.063	32.593	58.093	0.00	0.00
ATOM	5412	HG3	ARG	X	360	63.534	34.157	58.598	0.00	0.00
ATOM	5413	CD	ARG	X	360	61.799	33.512	59.614	0.00	0.00
ATOM	5414	HD2	ARG	X	360	60.890	32.946	59.411	0.00	0.00
ATOM	5415	HD3	ARG	X	360	62.340	32.866	60.305	0.00	0.00
ATOM	5416	NE	ARG	X	360	61.574	34.860	60.172	0.00	0.00
ATOM	5417	HE	ARG	X	360	60.732	35.371	59.946	0.00	0.00
ATOM	5418	CZ	ARG	X	360	62.308	35.571	61.020	0.00	0.00
ATOM	5419	NH1	ARG	X	360	63.518	35.193	61.357	0.00	0.00
ATOM	5420	HH11	ARG	X	360	63.916	34.309	61.075	0.00	0.00
ATOM	5421	HH12	ARG	X	360	63.984	35.797	62.019	0.00	0.00
ATOM	5422	NH2	ARG	X	360	61.781	36.643	61.533	0.00	0.00
ATOM	5423	HH21	ARG	X	360	60.813	36.877	61.369	0.00	0.00
ATOM	5424	HH22	ARG	X	360	62.216	37.145	62.294	0.00	0.00

ATOM	5425	C	ARG	X	360	59.980	34.683	55.598	0.00	0.00
ATOM	5426	O	ARG	X	360	59.251	35.657	55.791	0.00	0.00
ATOM	5427	N	VAL	X	361	60.264	34.254	54.366	0.00	0.00
ATOM	5428	H	VAL	X	361	60.855	33.450	54.211	0.00	0.00
ATOM	5429	CA	VAL	X	361	59.732	34.975	53.148	0.00	0.00
ATOM	5430	HA	VAL	X	361	59.994	36.025	53.282	0.00	0.00
ATOM	5431	CB	VAL	X	361	60.452	34.656	51.845	0.00	0.00
ATOM	5432	HB	VAL	X	361	59.957	35.108	50.985	0.00	0.00
ATOM	5433	CG1	VAL	X	361	61.944	35.147	51.848	0.00	0.00
ATOM	5434	HG11	VAL	X	361	62.491	34.604	52.619	0.00	0.00
ATOM	5435	HG12	VAL	X	361	62.377	35.019	50.856	0.00	0.00
ATOM	5436	HG13	VAL	X	361	61.984	36.181	52.190	0.00	0.00
ATOM	5437	CG2	VAL	X	361	60.544	33.173	51.548	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.976	32.906	50.583	0.00	0.00
ATOM	5439	HG22	VAL	X	361	59.506	32.844	51.612	0.00	0.00
ATOM	5440	HG23	VAL	X	361	61.163	32.723	52.323	0.00	0.00
ATOM	5441	C	VAL	X	361	58.216	34.866	52.982	0.00	0.00
ATOM	5442	O	VAL	X	361	57.579	35.779	52.426	0.00	0.00
ATOM	5443	N	GLY	X	362	57.611	33.808	53.396	0.00	0.00
ATOM	5444	H	GLY	X	362	58.156	33.107	53.877	0.00	0.00
ATOM	5445	CA	GLY	X	362	56.142	33.658	53.404	0.00	0.00
ATOM	5446	HA2	GLY	X	362	55.729	34.007	52.458	0.00	0.00
ATOM	5447	HA3	GLY	X	362	55.915	32.604	53.566	0.00	0.00
ATOM	5448	C	GLY	X	362	55.420	34.416	54.530	0.00	0.00
ATOM	5449	O	GLY	X	362	54.289	34.843	54.398	0.00	0.00
ATOM	5450	N	VAL	X	363	56.169	34.598	55.622	0.00	0.00
ATOM	5451	H	VAL	X	363	57.078	34.167	55.715	0.00	0.00
ATOM	5452	CA	VAL	X	363	55.696	35.409	56.796	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.689	35.785	56.613	0.00	0.00
ATOM	5454	CB	VAL	X	363	55.588	34.465	58.045	0.00	0.00
ATOM	5455	HB	VAL	X	363	56.528	34.228	58.543	0.00	0.00
ATOM	5456	CG1	VAL	X	363	54.730	35.175	59.107	0.00	0.00
ATOM	5457	HG11	VAL	X	363	55.088	36.174	59.356	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.752	35.371	58.667	0.00	0.00
ATOM	5459	HG13	VAL	X	363	54.526	34.591	60.005	0.00	0.00
ATOM	5460	CG2	VAL	X	363	54.825	33.158	57.731	0.00	0.00
ATOM	5461	HG21	VAL	X	363	53.893	33.345	57.197	0.00	0.00
ATOM	5462	HG22	VAL	X	363	54.539	32.697	58.676	0.00	0.00
ATOM	5463	HG23	VAL	X	363	55.469	32.459	57.198	0.00	0.00
ATOM	5464	C	VAL	X	363	56.623	36.582	57.019	0.00	0.00
ATOM	5465	O	VAL	X	363	57.376	36.537	58.010	0.00	0.00
ATOM	5466	N	PRO	X	364	56.676	37.582	56.132	0.00	0.00
ATOM	5467	CD	PRO	X	364	55.779	37.835	55.052	0.00	0.00
ATOM	5468	HD2	PRO	X	364	54.744	37.799	55.392	0.00	0.00
ATOM	5469	HD3	PRO	X	364	55.882	37.132	54.226	0.00	0.00
ATOM	5470	CG	PRO	X	364	56.094	39.188	54.490	0.00	0.00
ATOM	5471	HG2	PRO	X	364	55.453	39.868	55.051	0.00	0.00
ATOM	5472	HG3	PRO	X	364	55.872	39.249	53.424	0.00	0.00
ATOM	5473	CB	PRO	X	364	57.572	39.385	54.879	0.00	0.00
ATOM	5474	HB2	PRO	X	364	57.896	40.425	54.915	0.00	0.00
ATOM	5475	HB3	PRO	X	364	58.249	38.826	54.233	0.00	0.00
ATOM	5476	CA	PRO	X	364	57.669	38.710	56.238	0.00	0.00
ATOM	5477	HA	PRO	X	364	58.675	38.339	56.438	0.00	0.00
ATOM	5478	C	PRO	X	364	57.299	39.699	57.444	0.00	0.00
ATOM	5479	O	PRO	X	364	56.186	39.523	58.033	0.00	0.00
ATOM	5480	N	GLN	X	365	58.300	40.566	57.783	0.00	0.00
ATOM	5481	H	GLN	X	365	59.110	40.595	57.180	0.00	0.00
ATOM	5482	CA	GLN	X	365	58.313	41.572	58.881	0.00	0.00
ATOM	5483	HA	GLN	X	365	59.262	42.097	58.767	0.00	0.00
ATOM	5484	CB	GLN	X	365	57.370	42.719	58.529	0.00	0.00
ATOM	5485	HB2	GLN	X	365	57.529	43.526	59.245	0.00	0.00
ATOM	5486	HB3	GLN	X	365	57.609	42.965	57.495	0.00	0.00
ATOM	5487	CG	GLN	X	365	55.902	42.452	58.562	0.00	0.00
ATOM	5488	HG2	GLN	X	365	55.651	41.945	57.630	0.00	0.00
ATOM	5489	HG3	GLN	X	365	55.633	41.799	59.393	0.00	0.00
ATOM	5490	CD	GLN	X	365	55.003	43.724	58.576	0.00	0.00
ATOM	5491	OE1	GLN	X	365	54.987	44.413	59.558	0.00	0.00

ATOM	5492	NE2	GLN	X	365	54.067	43.898	57.694	0.00	0.00
ATOM	5493	HE21	GLN	X	365	53.592	44.769	57.883	0.00	0.00
ATOM	5494	HE22	GLN	X	365	53.797	43.302	56.924	0.00	0.00
ATOM	5495	C	GLN	X	365	58.041	41.115	60.288	0.00	0.00
ATOM	5496	O	GLN	X	365	58.194	41.826	61.269	0.00	0.00
ATOM	5497	N	VAL	X	366	57.679	39.855	60.421	0.00	0.00
ATOM	5498	H	VAL	X	366	57.572	39.264	59.609	0.00	0.00
ATOM	5499	CA	VAL	X	366	57.382	39.064	61.678	0.00	0.00
ATOM	5500	HA	VAL	X	366	56.700	39.588	62.348	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.617	37.775	61.329	0.00	0.00
ATOM	5502	HB	VAL	X	366	56.247	37.929	60.315	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.484	36.514	61.273	0.00	0.00
ATOM	5504	HG11	VAL	X	366	57.891	36.266	62.253	0.00	0.00
ATOM	5505	HG12	VAL	X	366	56.870	35.683	60.926	0.00	0.00
ATOM	5506	HG13	VAL	X	366	58.406	36.565	60.694	0.00	0.00
ATOM	5507	CG2	VAL	X	366	55.341	37.635	62.152	0.00	0.00
ATOM	5508	HG21	VAL	X	366	54.731	36.771	61.885	0.00	0.00
ATOM	5509	HG22	VAL	X	366	54.702	38.490	61.931	0.00	0.00
ATOM	5510	HG23	VAL	X	366	55.579	37.485	63.205	0.00	0.00
ATOM	5511	C	VAL	X	366	58.630	38.797	62.610	0.00	0.00
ATOM	5512	O	VAL	X	366	59.659	38.610	62.000	0.00	0.00
ATOM	5513	N	SER	X	367	58.479	38.795	63.955	0.00	0.00
ATOM	5514	H	SER	X	367	57.582	39.037	64.352	0.00	0.00
ATOM	5515	CA	SER	X	367	59.580	38.614	64.908	0.00	0.00
ATOM	5516	HA	SER	X	367	60.441	39.141	64.497	0.00	0.00
ATOM	5517	CB	SER	X	367	59.184	39.246	66.257	0.00	0.00
ATOM	5518	HB2	SER	X	367	59.921	38.997	67.020	0.00	0.00
ATOM	5519	HB3	SER	X	367	59.221	40.329	66.146	0.00	0.00
ATOM	5520	OG	SER	X	367	57.923	38.652	66.659	0.00	0.00
ATOM	5521	HG	SER	X	367	57.582	39.172	67.390	0.00	0.00
ATOM	5522	C	SER	X	367	59.966	37.147	65.026	0.00	0.00
ATOM	5523	O	SER	X	367	59.243	36.232	64.661	0.00	0.00
ATOM	5524	N	ASP	X	368	61.180	36.887	65.446	0.00	0.00
ATOM	5525	H	ASP	X	368	61.802	37.675	65.561	0.00	0.00
ATOM	5526	CA	ASP	X	368	61.738	35.552	65.413	0.00	0.00
ATOM	5527	HA	ASP	X	368	61.676	35.118	64.416	0.00	0.00
ATOM	5528	CB	ASP	X	368	63.289	35.659	65.739	0.00	0.00
ATOM	5529	HB2	ASP	X	368	63.346	36.038	66.760	0.00	0.00
ATOM	5530	HB3	ASP	X	368	63.637	34.628	65.784	0.00	0.00
ATOM	5531	CG	ASP	X	368	64.298	36.363	64.726	0.00	0.00
ATOM	5532	OD1	ASP	X	368	63.934	36.668	63.556	0.00	0.00
ATOM	5533	OD2	ASP	X	368	65.478	36.546	65.110	0.00	0.00
ATOM	5534	C	ASP	X	368	61.084	34.538	66.322	0.00	0.00
ATOM	5535	O	ASP	X	368	61.051	33.377	65.986	0.00	0.00
ATOM	5536	N	LEU	X	369	60.388	35.032	67.319	0.00	0.00
ATOM	5537	H	LEU	X	369	60.438	36.028	67.477	0.00	0.00
ATOM	5538	CA	LEU	X	369	59.544	34.255	68.206	0.00	0.00
ATOM	5539	HA	LEU	X	369	60.034	33.316	68.463	0.00	0.00
ATOM	5540	CB	LEU	X	369	59.242	35.069	69.481	0.00	0.00
ATOM	5541	HB2	LEU	X	369	60.157	35.432	69.949	0.00	0.00
ATOM	5542	HB3	LEU	X	369	58.796	35.998	69.124	0.00	0.00
ATOM	5543	CG	LEU	X	369	58.404	34.392	70.582	0.00	0.00
ATOM	5544	HG	LEU	X	369	57.414	34.229	70.156	0.00	0.00
ATOM	5545	CD1	LEU	X	369	59.058	33.139	71.114	0.00	0.00
ATOM	5546	HD11	LEU	X	369	59.120	32.369	70.345	0.00	0.00
ATOM	5547	HD12	LEU	X	369	58.501	32.584	71.869	0.00	0.00
ATOM	5548	HD13	LEU	X	369	60.065	33.321	71.490	0.00	0.00
ATOM	5549	CD2	LEU	X	369	58.104	35.423	71.661	0.00	0.00
ATOM	5550	HD21	LEU	X	369	59.054	35.635	72.153	0.00	0.00
ATOM	5551	HD22	LEU	X	369	57.501	36.226	71.238	0.00	0.00
ATOM	5552	HD23	LEU	X	369	57.476	34.963	72.424	0.00	0.00
ATOM	5553	C	LEU	X	369	58.228	33.864	67.504	0.00	0.00
ATOM	5554	O	LEU	X	369	57.717	32.803	67.873	0.00	0.00
ATOM	5555	N	ALA	X	370	57.694	34.643	66.506	0.00	0.00
ATOM	5556	H	ALA	X	370	58.138	35.500	66.209	0.00	0.00
ATOM	5557	CA	ALA	X	370	56.507	34.345	65.764	0.00	0.00
ATOM	5558	HA	ALA	X	370	55.718	33.956	66.408	0.00	0.00

ATOM	5559	CB	ALA	X	370	55.975	35.632	65.107	0.00	0.00
ATOM	5560	HB1	ALA	X	370	56.736	35.981	64.409	0.00	0.00
ATOM	5561	HB2	ALA	X	370	55.729	36.369	65.871	0.00	0.00
ATOM	5562	HB3	ALA	X	370	55.064	35.352	64.578	0.00	0.00
ATOM	5563	C	ALA	X	370	56.844	33.276	64.666	0.00	0.00
ATOM	5564	O	ALA	X	370	56.029	32.463	64.390	0.00	0.00
ATOM	5565	N	ALA	X	371	58.069	33.264	64.162	0.00	0.00
ATOM	5566	H	ALA	X	371	58.638	34.019	64.519	0.00	0.00
ATOM	5567	CA	ALA	X	371	58.642	32.227	63.303	0.00	0.00
ATOM	5568	HA	ALA	X	371	57.963	32.050	62.469	0.00	0.00
ATOM	5569	CB	ALA	X	371	60.007	32.654	62.720	0.00	0.00
ATOM	5570	HB1	ALA	X	371	60.750	32.792	63.506	0.00	0.00
ATOM	5571	HB2	ALA	X	371	59.938	33.593	62.172	0.00	0.00
ATOM	5572	HB3	ALA	X	371	60.363	31.875	62.045	0.00	0.00
ATOM	5573	C	ALA	X	371	58.715	30.877	64.087	0.00	0.00
ATOM	5574	O	ALA	X	371	58.168	29.912	63.620	0.00	0.00
ATOM	5575	N	GLU	X	372	59.194	30.867	65.349	0.00	0.00
ATOM	5576	H	GLU	X	372	59.676	31.724	65.581	0.00	0.00
ATOM	5577	CA	GLU	X	372	59.191	29.714	66.217	0.00	0.00
ATOM	5578	HA	GLU	X	372	59.566	28.837	65.690	0.00	0.00
ATOM	5579	CB	GLU	X	372	59.857	30.085	67.503	0.00	0.00
ATOM	5580	HB2	GLU	X	372	59.738	31.147	67.719	0.00	0.00
ATOM	5581	HB3	GLU	X	372	59.348	29.619	68.347	0.00	0.00
ATOM	5582	CG	GLU	X	372	61.312	29.488	67.492	0.00	0.00
ATOM	5583	HG2	GLU	X	372	61.902	29.670	66.593	0.00	0.00
ATOM	5584	HG3	GLU	X	372	61.793	29.938	68.361	0.00	0.00
ATOM	5585	CD	GLU	X	372	61.448	27.952	67.814	0.00	0.00
ATOM	5586	OE1	GLU	X	372	60.882	27.486	68.839	0.00	0.00
ATOM	5587	OE2	GLU	X	372	62.025	27.226	67.025	0.00	0.00
ATOM	5588	C	GLU	X	372	57.725	29.232	66.465	0.00	0.00
ATOM	5589	O	GLU	X	372	57.447	28.050	66.395	0.00	0.00
ATOM	5590	N	ALA	X	373	56.826	30.226	66.553	0.00	0.00
ATOM	5591	H	ALA	X	373	57.134	31.130	66.879	0.00	0.00
ATOM	5592	CA	ALA	X	373	55.406	29.850	66.747	0.00	0.00
ATOM	5593	HA	ALA	X	373	55.372	29.148	67.580	0.00	0.00
ATOM	5594	CB	ALA	X	373	54.657	31.027	67.340	0.00	0.00
ATOM	5595	HB1	ALA	X	373	53.677	30.735	67.717	0.00	0.00
ATOM	5596	HB2	ALA	X	373	54.538	31.750	66.533	0.00	0.00
ATOM	5597	HB3	ALA	X	373	55.175	31.355	68.241	0.00	0.00
ATOM	5598	C	ALA	X	373	54.654	29.241	65.507	0.00	0.00
ATOM	5599	O	ALA	X	373	53.883	28.266	65.658	0.00	0.00
ATOM	5600	N	VAL	X	374	54.928	29.794	64.330	0.00	0.00
ATOM	5601	H	VAL	X	374	55.402	30.686	64.318	0.00	0.00
ATOM	5602	CA	VAL	X	374	54.390	29.178	63.086	0.00	0.00
ATOM	5603	HA	VAL	X	374	53.307	29.182	63.203	0.00	0.00
ATOM	5604	CB	VAL	X	374	54.862	30.111	61.888	0.00	0.00
ATOM	5605	HB	VAL	X	374	55.908	30.397	61.999	0.00	0.00
ATOM	5606	CG1	VAL	X	374	54.722	29.407	60.508	0.00	0.00
ATOM	5607	HG11	VAL	X	374	54.944	30.104	59.700	0.00	0.00
ATOM	5608	HG12	VAL	X	374	55.311	28.497	60.395	0.00	0.00
ATOM	5609	HG13	VAL	X	374	53.671	29.143	60.390	0.00	0.00
ATOM	5610	CG2	VAL	X	374	54.056	31.441	61.920	0.00	0.00
ATOM	5611	HG21	VAL	X	374	54.155	31.930	62.890	0.00	0.00
ATOM	5612	HG22	VAL	X	374	53.023	31.249	61.629	0.00	0.00
ATOM	5613	HG23	VAL	X	374	54.497	32.152	61.222	0.00	0.00
ATOM	5614	C	VAL	X	374	54.998	27.757	62.951	0.00	0.00
ATOM	5615	O	VAL	X	374	54.212	26.859	62.800	0.00	0.00
ATOM	5616	N	VAL	X	375	56.328	27.646	63.139	0.00	0.00
ATOM	5617	H	VAL	X	375	56.781	28.509	63.405	0.00	0.00
ATOM	5618	CA	VAL	X	375	57.089	26.356	63.084	0.00	0.00
ATOM	5619	HA	VAL	X	375	56.953	25.843	62.131	0.00	0.00
ATOM	5620	CB	VAL	X	375	58.617	26.477	63.288	0.00	0.00
ATOM	5621	HB	VAL	X	375	58.801	26.999	64.227	0.00	0.00
ATOM	5622	CG1	VAL	X	375	59.369	25.184	63.486	0.00	0.00
ATOM	5623	HG11	VAL	X	375	59.384	24.520	62.622	0.00	0.00
ATOM	5624	HG12	VAL	X	375	60.433	25.395	63.590	0.00	0.00
ATOM	5625	HG13	VAL	X	375	59.011	24.669	64.377	0.00	0.00

ATOM	5626	CG2	VAL	X	375	59.289	27.198	62.114	0.00	0.00
ATOM	5627	HG21	VAL	X	375	59.060	26.581	61.245	0.00	0.00
ATOM	5628	HG22	VAL	X	375	60.351	27.384	62.273	0.00	0.00
ATOM	5629	HG23	VAL	X	375	58.694	28.089	61.916	0.00	0.00
ATOM	5630	C	VAL	X	375	56.496	25.389	64.172	0.00	0.00
ATOM	5631	O	VAL	X	375	56.220	24.256	63.807	0.00	0.00
ATOM	5632	N	LEU	X	376	56.054	25.843	65.370	0.00	0.00
ATOM	5633	H	LEU	X	376	56.101	26.841	65.521	0.00	0.00
ATOM	5634	CA	LEU	X	376	55.345	24.955	66.317	0.00	0.00
ATOM	5635	HA	LEU	X	376	56.056	24.143	66.474	0.00	0.00
ATOM	5636	CB	LEU	X	376	55.154	25.750	67.654	0.00	0.00
ATOM	5637	HB2	LEU	X	376	56.101	26.213	67.930	0.00	0.00
ATOM	5638	HB3	LEU	X	376	54.460	26.579	67.513	0.00	0.00
ATOM	5639	CG	LEU	X	376	54.659	24.904	68.822	0.00	0.00
ATOM	5640	HG	LEU	X	376	53.697	24.463	68.561	0.00	0.00
ATOM	5641	CD1	LEU	X	376	55.529	23.793	69.281	0.00	0.00
ATOM	5642	HD11	LEU	X	376	56.514	24.123	69.611	0.00	0.00
ATOM	5643	HD12	LEU	X	376	55.438	23.114	68.433	0.00	0.00
ATOM	5644	HD13	LEU	X	376	55.013	23.284	70.095	0.00	0.00
ATOM	5645	CD2	LEU	X	376	54.474	25.908	69.952	0.00	0.00
ATOM	5646	HD21	LEU	X	376	55.442	26.279	70.288	0.00	0.00
ATOM	5647	HD22	LEU	X	376	53.803	26.740	69.740	0.00	0.00
ATOM	5648	HD23	LEU	X	376	54.012	25.394	70.795	0.00	0.00
ATOM	5649	C	LEU	X	376	54.073	24.326	65.840	0.00	0.00
ATOM	5650	O	LEU	X	376	53.829	23.167	66.130	0.00	0.00
ATOM	5651	N	HIE	X	377	53.246	25.129	65.068	0.00	0.00
ATOM	5652	H	HIE	X	377	53.560	26.063	64.848	0.00	0.00
ATOM	5653	CA	HIE	X	377	51.915	24.653	64.634	0.00	0.00
ATOM	5654	HA	HIE	X	377	51.505	23.966	65.375	0.00	0.00
ATOM	5655	CB	HIE	X	377	50.936	25.825	64.493	0.00	0.00
ATOM	5656	HB2	HIE	X	377	50.872	26.324	65.460	0.00	0.00
ATOM	5657	HB3	HIE	X	377	51.392	26.489	63.759	0.00	0.00
ATOM	5658	CG	HIE	X	377	49.543	25.427	64.106	0.00	0.00
ATOM	5659	ND1	HIE	X	377	48.559	24.813	64.937	0.00	0.00
ATOM	5660	CE1	HIE	X	377	47.456	24.609	64.161	0.00	0.00
ATOM	5661	HE1	HIE	X	377	46.641	24.031	64.569	0.00	0.00
ATOM	5662	NE2	HIE	X	377	47.745	25.084	62.890	0.00	0.00
ATOM	5663	HE2	HIE	X	377	47.046	25.047	62.162	0.00	0.00
ATOM	5664	CD2	HIE	X	377	48.997	25.623	62.842	0.00	0.00
ATOM	5665	HD2	HIE	X	377	49.521	26.048	61.998	0.00	0.00
ATOM	5666	C	HIE	X	377	52.003	23.899	63.320	0.00	0.00
ATOM	5667	O	HIE	X	377	51.401	22.825	63.172	0.00	0.00
ATOM	5668	N	TYR	X	378	52.862	24.327	62.362	0.00	0.00
ATOM	5669	H	TYR	X	378	53.368	25.183	62.538	0.00	0.00
ATOM	5670	CA	TYR	X	378	52.926	23.816	60.955	0.00	0.00
ATOM	5671	HA	TYR	X	378	51.935	23.392	60.793	0.00	0.00
ATOM	5672	CB	TYR	X	378	53.127	25.046	60.053	0.00	0.00
ATOM	5673	HB2	TYR	X	378	53.935	25.697	60.387	0.00	0.00
ATOM	5674	HB3	TYR	X	378	53.382	24.693	59.053	0.00	0.00
ATOM	5675	CG	TYR	X	378	51.871	25.911	59.781	0.00	0.00
ATOM	5676	CD1	TYR	X	378	50.923	25.505	58.847	0.00	0.00
ATOM	5677	HD1	TYR	X	378	51.056	24.648	58.203	0.00	0.00
ATOM	5678	CE1	TYR	X	378	49.810	26.333	58.604	0.00	0.00
ATOM	5679	HE1	TYR	X	378	49.043	26.086	57.885	0.00	0.00
ATOM	5680	CZ	TYR	X	378	49.653	27.569	59.380	0.00	0.00
ATOM	5681	OH	TYR	X	378	48.554	28.346	59.131	0.00	0.00
ATOM	5682	HH	TYR	X	378	48.036	27.871	58.476	0.00	0.00
ATOM	5683	CE2	TYR	X	378	50.621	27.999	60.279	0.00	0.00
ATOM	5684	HE2	TYR	X	378	50.392	28.848	60.906	0.00	0.00
ATOM	5685	CD2	TYR	X	378	51.759	27.131	60.485	0.00	0.00
ATOM	5686	HD2	TYR	X	378	52.539	27.482	61.144	0.00	0.00
ATOM	5687	C	TYR	X	378	53.871	22.663	60.762	0.00	0.00
ATOM	5688	O	TYR	X	378	53.833	22.013	59.687	0.00	0.00
ATOM	5689	N	THR	X	379	54.779	22.347	61.658	0.00	0.00
ATOM	5690	H	THR	X	379	54.711	22.973	62.448	0.00	0.00
ATOM	5691	CA	THR	X	379	55.633	21.109	61.645	0.00	0.00
ATOM	5692	HA	THR	X	379	55.983	20.916	60.631	0.00	0.00

ATOM	5693	CB	THR	X	379	56.833	21.132	62.624	0.00	0.00
ATOM	5694	HB	THR	X	379	56.537	21.383	63.643	0.00	0.00
ATOM	5695	CG2	THR	X	379	57.593	19.866	62.750	0.00	0.00
ATOM	5696	HG21	THR	X	379	56.930	19.235	63.343	0.00	0.00
ATOM	5697	HG22	THR	X	379	58.432	19.833	63.445	0.00	0.00
ATOM	5698	HG23	THR	X	379	57.713	19.472	61.741	0.00	0.00
ATOM	5699	OG1	THR	X	379	57.608	22.231	62.189	0.00	0.00
ATOM	5700	HG1	THR	X	379	57.276	23.015	62.631	0.00	0.00
ATOM	5701	C	THR	X	379	54.708	19.942	62.014	0.00	0.00
ATOM	5702	O	THR	X	379	53.817	20.147	62.835	0.00	0.00
ATOM	5703	N	ASP	X	380	55.016	18.778	61.411	0.00	0.00
ATOM	5704	H	ASP	X	380	55.848	18.759	60.839	0.00	0.00
ATOM	5705	CA	ASP	X	380	54.556	17.459	61.828	0.00	0.00
ATOM	5706	HA	ASP	X	380	53.539	17.468	62.219	0.00	0.00
ATOM	5707	CB	ASP	X	380	54.489	16.458	60.630	0.00	0.00
ATOM	5708	HB2	ASP	X	380	53.791	16.934	59.941	0.00	0.00
ATOM	5709	HB3	ASP	X	380	55.476	16.413	60.170	0.00	0.00
ATOM	5710	CG	ASP	X	380	53.926	15.108	60.998	0.00	0.00
ATOM	5711	OD1	ASP	X	380	54.284	14.630	62.079	0.00	0.00
ATOM	5712	OD2	ASP	X	380	53.148	14.540	60.194	0.00	0.00
ATOM	5713	C	ASP	X	380	55.644	16.957	62.873	0.00	0.00
ATOM	5714	O	ASP	X	380	56.792	16.638	62.490	0.00	0.00
ATOM	5715	N	TRP	X	381	55.281	16.878	64.147	0.00	0.00
ATOM	5716	H	TRP	X	381	54.335	17.035	64.464	0.00	0.00
ATOM	5717	CA	TRP	X	381	56.169	16.494	65.284	0.00	0.00
ATOM	5718	HA	TRP	X	381	57.161	16.867	65.029	0.00	0.00
ATOM	5719	CB	TRP	X	381	55.782	17.236	66.554	0.00	0.00
ATOM	5720	HB2	TRP	X	381	54.738	16.998	66.757	0.00	0.00
ATOM	5721	HB3	TRP	X	381	56.407	16.946	67.399	0.00	0.00
ATOM	5722	CG	TRP	X	381	55.968	18.708	66.472	0.00	0.00
ATOM	5723	CD1	TRP	X	381	55.022	19.724	66.332	0.00	0.00
ATOM	5724	HD1	TRP	X	381	53.980	19.450	66.406	0.00	0.00
ATOM	5725	NE1	TRP	X	381	55.606	20.926	66.280	0.00	0.00
ATOM	5726	HE1	TRP	X	381	55.009	21.740	66.255	0.00	0.00
ATOM	5727	CE2	TRP	X	381	57.017	20.856	66.231	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	57.992	21.790	65.966	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	57.764	22.832	65.793	0.00	0.00
ATOM	5730	CH2	TRP	X	381	59.337	21.439	66.011	0.00	0.00
ATOM	5731	HH2	TRP	X	381	60.145	22.119	65.787	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	59.616	20.084	66.180	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	60.652	19.791	66.265	0.00	0.00
ATOM	5734	CE3	TRP	X	381	58.608	19.124	66.360	0.00	0.00
ATOM	5735	HE3	TRP	X	381	58.862	18.075	66.404	0.00	0.00
ATOM	5736	CD2	TRP	X	381	57.241	19.489	66.362	0.00	0.00
ATOM	5737	C	TRP	X	381	56.367	14.992	65.367	0.00	0.00
ATOM	5738	O	TRP	X	381	57.173	14.615	66.268	0.00	0.00
ATOM	5739	N	LEU	X	382	55.781	14.151	64.591	0.00	0.00
ATOM	5740	H	LEU	X	382	55.062	14.501	63.974	0.00	0.00
ATOM	5741	CA	LEU	X	382	56.102	12.717	64.472	0.00	0.00
ATOM	5742	HA	LEU	X	382	56.486	12.370	65.431	0.00	0.00
ATOM	5743	CB	LEU	X	382	54.738	11.974	64.191	0.00	0.00
ATOM	5744	HB2	LEU	X	382	53.903	12.559	64.578	0.00	0.00
ATOM	5745	HB3	LEU	X	382	54.531	11.842	63.129	0.00	0.00
ATOM	5746	CG	LEU	X	382	54.694	10.531	64.693	0.00	0.00
ATOM	5747	HG	LEU	X	382	53.763	10.064	64.372	0.00	0.00
ATOM	5748	CD1	LEU	X	382	55.802	9.716	64.118	0.00	0.00
ATOM	5749	HD11	LEU	X	382	56.804	9.895	64.507	0.00	0.00
ATOM	5750	HD12	LEU	X	382	55.846	9.814	63.033	0.00	0.00
ATOM	5751	HD13	LEU	X	382	55.550	8.660	64.214	0.00	0.00
ATOM	5752	CD2	LEU	X	382	54.674	10.471	66.220	0.00	0.00
ATOM	5753	HD21	LEU	X	382	53.794	11.010	66.570	0.00	0.00
ATOM	5754	HD22	LEU	X	382	54.542	9.437	66.541	0.00	0.00
ATOM	5755	HD23	LEU	X	382	55.613	10.892	66.579	0.00	0.00
ATOM	5756	C	LEU	X	382	57.181	12.649	63.290	0.00	0.00
ATOM	5757	O	LEU	X	382	58.214	11.947	63.399	0.00	0.00
ATOM	5758	N	HIE	X	383	56.972	13.349	62.197	0.00	0.00
ATOM	5759	H	HIE	X	383	56.051	13.757	62.124	0.00	0.00

ATOM	5760	CA	HIE	X	383	57.791	13.394	60.945	0.00	0.00
ATOM	5761	HA	HIE	X	383	58.638	12.726	61.104	0.00	0.00
ATOM	5762	CB	HIE	X	383	56.914	12.824	59.817	0.00	0.00
ATOM	5763	HB2	HIE	X	383	56.139	13.576	59.668	0.00	0.00
ATOM	5764	HB3	HIE	X	383	57.510	12.806	58.904	0.00	0.00
ATOM	5765	CG	HIE	X	383	56.343	11.440	60.102	0.00	0.00
ATOM	5766	ND1	HIE	X	383	56.856	10.210	59.706	0.00	0.00
ATOM	5767	CE1	HIE	X	383	55.898	9.290	59.965	0.00	0.00
ATOM	5768	HE1	HIE	X	383	56.057	8.234	59.802	0.00	0.00
ATOM	5769	NE2	HIE	X	383	54.765	9.895	60.471	0.00	0.00
ATOM	5770	HE2	HIE	X	383	53.978	9.376	60.835	0.00	0.00
ATOM	5771	CD2	HIE	X	383	55.003	11.202	60.484	0.00	0.00
ATOM	5772	HD2	HIE	X	383	54.262	11.903	60.837	0.00	0.00
ATOM	5773	C	HIE	X	383	58.437	14.766	60.609	0.00	0.00
ATOM	5774	O	HIE	X	383	58.182	15.282	59.522	0.00	0.00
ATOM	5775	N	PRO	X	384	59.257	15.374	61.501	0.00	0.00
ATOM	5776	CD	PRO	X	384	59.766	14.925	62.752	0.00	0.00
ATOM	5777	HD2	PRO	X	384	60.694	14.368	62.626	0.00	0.00
ATOM	5778	HD3	PRO	X	384	59.088	14.245	63.267	0.00	0.00
ATOM	5779	CG	PRO	X	384	59.971	16.194	63.633	0.00	0.00
ATOM	5780	HG2	PRO	X	384	60.754	16.019	64.371	0.00	0.00
ATOM	5781	HG3	PRO	X	384	59.036	16.503	64.102	0.00	0.00
ATOM	5782	CB	PRO	X	384	60.372	17.223	62.627	0.00	0.00
ATOM	5783	HB2	PRO	X	384	61.462	17.203	62.628	0.00	0.00
ATOM	5784	HB3	PRO	X	384	60.045	18.237	62.859	0.00	0.00
ATOM	5785	CA	PRO	X	384	59.650	16.782	61.278	0.00	0.00
ATOM	5786	HA	PRO	X	384	58.729	17.351	61.150	0.00	0.00
ATOM	5787	C	PRO	X	384	60.564	17.186	60.136	0.00	0.00
ATOM	5788	O	PRO	X	384	60.418	18.171	59.511	0.00	0.00
ATOM	5789	N	GLU	X	385	61.404	16.286	59.731	0.00	0.00
ATOM	5790	H	GLU	X	385	61.392	15.382	60.181	0.00	0.00
ATOM	5791	CA	GLU	X	385	62.372	16.476	58.603	0.00	0.00
ATOM	5792	HA	GLU	X	385	62.619	17.531	58.494	0.00	0.00
ATOM	5793	CB	GLU	X	385	63.666	15.731	58.901	0.00	0.00
ATOM	5794	HB2	GLU	X	385	63.429	14.669	58.967	0.00	0.00
ATOM	5795	HB3	GLU	X	385	64.431	15.947	58.156	0.00	0.00
ATOM	5796	CG	GLU	X	385	64.374	16.117	60.185	0.00	0.00
ATOM	5797	HG2	GLU	X	385	63.641	15.899	60.962	0.00	0.00
ATOM	5798	HG3	GLU	X	385	65.257	15.494	60.326	0.00	0.00
ATOM	5799	CD	GLU	X	385	64.779	17.594	60.226	0.00	0.00
ATOM	5800	OE1	GLU	X	385	65.715	18.028	59.440	0.00	0.00
ATOM	5801	OE2	GLU	X	385	64.209	18.369	61.065	0.00	0.00
ATOM	5802	C	GLU	X	385	61.761	15.958	57.261	0.00	0.00
ATOM	5803	O	GLU	X	385	62.603	15.878	56.316	0.00	0.00
ATOM	5804	N	ASP	X	386	60.522	15.614	57.126	0.00	0.00
ATOM	5805	H	ASP	X	386	59.931	15.748	57.935	0.00	0.00
ATOM	5806	CA	ASP	X	386	59.910	15.030	55.864	0.00	0.00
ATOM	5807	HA	ASP	X	386	60.607	14.261	55.529	0.00	0.00
ATOM	5808	CB	ASP	X	386	58.587	14.456	56.112	0.00	0.00
ATOM	5809	HB2	ASP	X	386	58.625	13.777	56.964	0.00	0.00
ATOM	5810	HB3	ASP	X	386	57.919	15.217	56.513	0.00	0.00
ATOM	5811	CG	ASP	X	386	57.775	13.751	54.965	0.00	0.00
ATOM	5812	OD1	ASP	X	386	57.811	14.267	53.798	0.00	0.00
ATOM	5813	OD2	ASP	X	386	57.124	12.728	55.230	0.00	0.00
ATOM	5814	C	ASP	X	386	59.838	16.123	54.736	0.00	0.00
ATOM	5815	O	ASP	X	386	59.050	16.994	54.844	0.00	0.00
ATOM	5816	N	PRO	X	387	60.581	16.000	53.657	0.00	0.00
ATOM	5817	CD	PRO	X	387	61.629	15.002	53.360	0.00	0.00
ATOM	5818	HD2	PRO	X	387	61.157	14.217	52.769	0.00	0.00
ATOM	5819	HD3	PRO	X	387	62.177	14.631	54.226	0.00	0.00
ATOM	5820	CG	PRO	X	387	62.750	15.651	52.540	0.00	0.00
ATOM	5821	HG2	PRO	X	387	63.256	14.893	51.943	0.00	0.00
ATOM	5822	HG3	PRO	X	387	63.375	16.219	53.228	0.00	0.00
ATOM	5823	CB	PRO	X	387	61.849	16.570	51.705	0.00	0.00
ATOM	5824	HB2	PRO	X	387	61.484	16.052	50.818	0.00	0.00
ATOM	5825	HB3	PRO	X	387	62.425	17.450	51.420	0.00	0.00
ATOM	5826	CA	PRO	X	387	60.677	17.001	52.596	0.00	0.00

ATOM	5827	HA	PRO	X	387	60.984	17.946	53.043	0.00	0.00
ATOM	5828	C	PRO	X	387	59.412	17.290	51.784	0.00	0.00
ATOM	5829	O	PRO	X	387	59.293	18.330	51.114	0.00	0.00
ATOM	5830	N	ALA	X	388	58.399	16.453	51.818	0.00	0.00
ATOM	5831	H	ALA	X	388	58.447	15.653	52.432	0.00	0.00
ATOM	5832	CA	ALA	X	388	57.046	16.688	51.214	0.00	0.00
ATOM	5833	HA	ALA	X	388	57.130	17.383	50.380	0.00	0.00
ATOM	5834	CB	ALA	X	388	56.489	15.327	50.778	0.00	0.00
ATOM	5835	HB1	ALA	X	388	57.163	14.845	50.070	0.00	0.00
ATOM	5836	HB2	ALA	X	388	55.630	15.511	50.133	0.00	0.00
ATOM	5837	HB3	ALA	X	388	56.329	14.637	51.607	0.00	0.00
ATOM	5838	C	ALA	X	388	56.108	17.320	52.298	0.00	0.00
ATOM	5839	O	ALA	X	388	55.406	18.306	52.107	0.00	0.00
ATOM	5840	N	ARG	X	389	56.104	16.795	53.597	0.00	0.00
ATOM	5841	H	ARG	X	389	56.748	16.082	53.909	0.00	0.00
ATOM	5842	CA	ARG	X	389	55.267	17.447	54.628	0.00	0.00
ATOM	5843	HA	ARG	X	389	54.220	17.393	54.330	0.00	0.00
ATOM	5844	CB	ARG	X	389	55.341	16.658	55.952	0.00	0.00
ATOM	5845	HB2	ARG	X	389	56.372	16.713	56.299	0.00	0.00
ATOM	5846	HB3	ARG	X	389	54.684	17.208	56.626	0.00	0.00
ATOM	5847	CG	ARG	X	389	54.732	15.281	55.832	0.00	0.00
ATOM	5848	HG2	ARG	X	389	53.696	15.313	55.493	0.00	0.00
ATOM	5849	HG3	ARG	X	389	55.246	14.663	55.096	0.00	0.00
ATOM	5850	CD	ARG	X	389	54.738	14.554	57.219	0.00	0.00
ATOM	5851	HD2	ARG	X	389	55.717	14.778	57.644	0.00	0.00
ATOM	5852	HD3	ARG	X	389	53.872	14.906	57.780	0.00	0.00
ATOM	5853	NE	ARG	X	389	54.677	13.098	56.958	0.00	0.00
ATOM	5854	HE	ARG	X	389	55.398	12.710	56.366	0.00	0.00
ATOM	5855	CZ	ARG	X	389	53.855	12.185	57.457	0.00	0.00
ATOM	5856	NH1	ARG	X	389	52.954	12.434	58.388	0.00	0.00
ATOM	5857	HH11	ARG	X	389	52.994	13.225	59.015	0.00	0.00
ATOM	5858	HH12	ARG	X	389	52.391	11.637	58.651	0.00	0.00
ATOM	5859	NH2	ARG	X	389	53.944	10.938	56.994	0.00	0.00
ATOM	5860	HH21	ARG	X	389	54.703	10.620	56.408	0.00	0.00
ATOM	5861	HH22	ARG	X	389	53.366	10.334	57.561	0.00	0.00
ATOM	5862	C	ARG	X	389	55.681	18.863	54.762	0.00	0.00
ATOM	5863	O	ARG	X	389	54.853	19.734	54.924	0.00	0.00
ATOM	5864	N	LEU	X	390	57.000	19.187	54.766	0.00	0.00
ATOM	5865	H	LEU	X	390	57.659	18.432	54.642	0.00	0.00
ATOM	5866	CA	LEU	X	390	57.620	20.512	54.866	0.00	0.00
ATOM	5867	HA	LEU	X	390	57.182	21.046	55.709	0.00	0.00
ATOM	5868	CB	LEU	X	390	59.186	20.326	54.824	0.00	0.00
ATOM	5869	HB2	LEU	X	390	59.454	19.676	53.991	0.00	0.00
ATOM	5870	HB3	LEU	X	390	59.565	21.331	54.641	0.00	0.00
ATOM	5871	CG	LEU	X	390	59.809	19.822	56.178	0.00	0.00
ATOM	5872	HG	LEU	X	390	59.219	18.926	56.372	0.00	0.00
ATOM	5873	CD1	LEU	X	390	61.282	19.378	56.020	0.00	0.00
ATOM	5874	HD11	LEU	X	390	61.641	19.065	57.000	0.00	0.00
ATOM	5875	HD12	LEU	X	390	61.847	20.237	55.657	0.00	0.00
ATOM	5876	HD13	LEU	X	390	61.299	18.621	55.235	0.00	0.00
ATOM	5877	CD2	LEU	X	390	59.720	20.796	57.313	0.00	0.00
ATOM	5878	HD21	LEU	X	390	58.681	20.997	57.575	0.00	0.00
ATOM	5879	HD22	LEU	X	390	60.241	20.311	58.138	0.00	0.00
ATOM	5880	HD23	LEU	X	390	60.315	21.685	57.105	0.00	0.00
ATOM	5881	C	LEU	X	390	57.241	21.391	53.644	0.00	0.00
ATOM	5882	O	LEU	X	390	56.882	22.530	53.816	0.00	0.00
ATOM	5883	N	ARG	X	391	57.202	20.831	52.396	0.00	0.00
ATOM	5884	H	ARG	X	391	57.513	19.870	52.372	0.00	0.00
ATOM	5885	CA	ARG	X	391	56.637	21.508	51.205	0.00	0.00
ATOM	5886	HA	ARG	X	391	57.180	22.439	51.038	0.00	0.00
ATOM	5887	CB	ARG	X	391	56.772	20.654	49.984	0.00	0.00
ATOM	5888	HB2	ARG	X	391	57.722	20.122	50.038	0.00	0.00
ATOM	5889	HB3	ARG	X	391	55.989	19.902	50.085	0.00	0.00
ATOM	5890	CG	ARG	X	391	56.584	21.488	48.721	0.00	0.00
ATOM	5891	HG2	ARG	X	391	55.901	22.307	48.943	0.00	0.00
ATOM	5892	HG3	ARG	X	391	57.548	21.847	48.361	0.00	0.00
ATOM	5893	CD	ARG	X	391	55.859	20.618	47.617	0.00	0.00

ATOM	5894	HD2	ARG	X	391	54.883	20.391	48.048	0.00	0.00
ATOM	5895	HD3	ARG	X	391	55.640	21.237	46.747	0.00	0.00
ATOM	5896	NE	ARG	X	391	56.662	19.496	47.181	0.00	0.00
ATOM	5897	HE	ARG	X	391	57.536	19.778	46.761	0.00	0.00
ATOM	5898	CZ	ARG	X	391	56.296	18.231	47.336	0.00	0.00
ATOM	5899	NH1	ARG	X	391	55.274	17.811	48.062	0.00	0.00
ATOM	5900	HH11	ARG	X	391	54.715	18.492	48.557	0.00	0.00
ATOM	5901	HH12	ARG	X	391	54.966	16.849	48.077	0.00	0.00
ATOM	5902	NH2	ARG	X	391	57.012	17.344	46.656	0.00	0.00
ATOM	5903	HH21	ARG	X	391	57.668	17.755	46.007	0.00	0.00
ATOM	5904	HH22	ARG	X	391	56.809	16.360	46.759	0.00	0.00
ATOM	5905	C	ARG	X	391	55.226	21.878	51.431	0.00	0.00
ATOM	5906	O	ARG	X	391	54.889	23.055	51.249	0.00	0.00
ATOM	5907	N	GLU	X	392	54.318	20.987	51.873	0.00	0.00
ATOM	5908	H	GLU	X	392	54.578	20.016	51.770	0.00	0.00
ATOM	5909	CA	GLU	X	392	52.888	21.210	51.993	0.00	0.00
ATOM	5910	HA	GLU	X	392	52.474	21.586	51.058	0.00	0.00
ATOM	5911	CB	GLU	X	392	52.154	19.878	52.366	0.00	0.00
ATOM	5912	HB2	GLU	X	392	52.703	19.168	52.984	0.00	0.00
ATOM	5913	HB3	GLU	X	392	51.324	20.086	53.042	0.00	0.00
ATOM	5914	CG	GLU	X	392	51.659	19.148	51.194	0.00	0.00
ATOM	5915	HG2	GLU	X	392	51.083	18.276	51.504	0.00	0.00
ATOM	5916	HG3	GLU	X	392	50.981	19.797	50.639	0.00	0.00
ATOM	5917	CD	GLU	X	392	52.818	18.494	50.389	0.00	0.00
ATOM	5918	OE1	GLU	X	392	53.598	19.298	49.721	0.00	0.00
ATOM	5919	OE2	GLU	X	392	52.933	17.245	50.360	0.00	0.00
ATOM	5920	C	GLU	X	392	52.647	22.257	53.138	0.00	0.00
ATOM	5921	O	GLU	X	392	51.891	23.166	52.906	0.00	0.00
ATOM	5922	N	ALA	X	393	53.410	22.075	54.292	0.00	0.00
ATOM	5923	H	ALA	X	393	53.947	21.235	54.452	0.00	0.00
ATOM	5924	CA	ALA	X	393	53.330	23.003	55.398	0.00	0.00
ATOM	5925	HA	ALA	X	393	52.321	23.016	55.809	0.00	0.00
ATOM	5926	CB	ALA	X	393	54.226	22.510	56.488	0.00	0.00
ATOM	5927	HB1	ALA	X	393	54.324	23.234	57.297	0.00	0.00
ATOM	5928	HB2	ALA	X	393	55.249	22.567	56.116	0.00	0.00
ATOM	5929	HB3	ALA	X	393	53.964	21.514	56.846	0.00	0.00
ATOM	5930	C	ALA	X	393	53.567	24.494	54.963	0.00	0.00
ATOM	5931	O	ALA	X	393	52.905	25.396	55.417	0.00	0.00
ATOM	5932	N	LEU	X	394	54.539	24.754	54.121	0.00	0.00
ATOM	5933	H	LEU	X	394	55.110	24.000	53.768	0.00	0.00
ATOM	5934	CA	LEU	X	394	54.792	26.147	53.645	0.00	0.00
ATOM	5935	HA	LEU	X	394	54.836	26.666	54.602	0.00	0.00
ATOM	5936	CB	LEU	X	394	56.166	26.284	52.890	0.00	0.00
ATOM	5937	HB2	LEU	X	394	56.908	25.764	53.496	0.00	0.00
ATOM	5938	HB3	LEU	X	394	56.166	25.751	51.939	0.00	0.00
ATOM	5939	CG	LEU	X	394	56.737	27.644	52.708	0.00	0.00
ATOM	5940	HG	LEU	X	394	56.058	28.216	52.075	0.00	0.00
ATOM	5941	CD1	LEU	X	394	56.838	28.417	54.008	0.00	0.00
ATOM	5942	HD11	LEU	X	394	57.143	29.453	53.857	0.00	0.00
ATOM	5943	HD12	LEU	X	394	57.482	27.921	54.734	0.00	0.00
ATOM	5944	HD13	LEU	X	394	55.840	28.577	54.415	0.00	0.00
ATOM	5945	CD2	LEU	X	394	58.089	27.564	52.018	0.00	0.00
ATOM	5946	HD21	LEU	X	394	58.418	28.552	51.696	0.00	0.00
ATOM	5947	HD22	LEU	X	394	58.894	27.124	52.606	0.00	0.00
ATOM	5948	HD23	LEU	X	394	57.907	27.087	51.055	0.00	0.00
ATOM	5949	C	LEU	X	394	53.699	26.655	52.690	0.00	0.00
ATOM	5950	O	LEU	X	394	53.339	27.844	52.786	0.00	0.00
ATOM	5951	N	SER	X	395	53.201	25.748	51.786	0.00	0.00
ATOM	5952	H	SER	X	395	53.623	24.831	51.825	0.00	0.00
ATOM	5953	CA	SER	X	395	52.033	26.101	50.952	0.00	0.00
ATOM	5954	HA	SER	X	395	52.186	26.957	50.295	0.00	0.00
ATOM	5955	CB	SER	X	395	51.812	24.943	50.039	0.00	0.00
ATOM	5956	HB2	SER	X	395	52.742	24.687	49.531	0.00	0.00
ATOM	5957	HB3	SER	X	395	51.467	24.094	50.629	0.00	0.00
ATOM	5958	OG	SER	X	395	50.862	25.341	49.050	0.00	0.00
ATOM	5959	HG	SER	X	395	50.006	25.541	49.436	0.00	0.00
ATOM	5960	C	SER	X	395	50.761	26.468	51.786	0.00	0.00

ATOM	5961	O	SER	X	395	50.087	27.412	51.415	0.00	0.00
ATOM	5962	N	ASP	X	396	50.488	25.694	52.875	0.00	0.00
ATOM	5963	H	ASP	X	396	50.877	24.764	52.932	0.00	0.00
ATOM	5964	CA	ASP	X	396	49.473	25.962	53.873	0.00	0.00
ATOM	5965	HA	ASP	X	396	48.484	26.057	53.423	0.00	0.00
ATOM	5966	CB	ASP	X	396	49.488	24.786	54.842	0.00	0.00
ATOM	5967	HB2	ASP	X	396	50.523	24.485	55.001	0.00	0.00
ATOM	5968	HB3	ASP	X	396	49.126	25.184	55.790	0.00	0.00
ATOM	5969	CG	ASP	X	396	48.583	23.531	54.542	0.00	0.00
ATOM	5970	OD1	ASP	X	396	48.300	23.199	53.363	0.00	0.00
ATOM	5971	OD2	ASP	X	396	48.047	23.005	55.546	0.00	0.00
ATOM	5972	C	ASP	X	396	49.694	27.302	54.568	0.00	0.00
ATOM	5973	O	ASP	X	396	48.841	28.161	54.626	0.00	0.00
ATOM	5974	N	VAL	X	397	50.903	27.491	55.115	0.00	0.00
ATOM	5975	H	VAL	X	397	51.505	26.680	55.075	0.00	0.00
ATOM	5976	CA	VAL	X	397	51.351	28.769	55.716	0.00	0.00
ATOM	5977	HA	VAL	X	397	50.798	28.757	56.655	0.00	0.00
ATOM	5978	CB	VAL	X	397	52.840	28.790	56.162	0.00	0.00
ATOM	5979	HB	VAL	X	397	53.386	28.327	55.340	0.00	0.00
ATOM	5980	CG1	VAL	X	397	53.453	30.199	56.342	0.00	0.00
ATOM	5981	HG11	VAL	X	397	52.892	30.905	56.955	0.00	0.00
ATOM	5982	HG12	VAL	X	397	54.476	30.157	56.715	0.00	0.00
ATOM	5983	HG13	VAL	X	397	53.512	30.605	55.332	0.00	0.00
ATOM	5984	CG2	VAL	X	397	52.984	28.066	57.520	0.00	0.00
ATOM	5985	HG21	VAL	X	397	54.057	27.963	57.680	0.00	0.00
ATOM	5986	HG22	VAL	X	397	52.588	27.065	57.351	0.00	0.00
ATOM	5987	HG23	VAL	X	397	52.508	28.654	58.305	0.00	0.00
ATOM	5988	C	VAL	X	397	51.027	29.942	54.804	0.00	0.00
ATOM	5989	O	VAL	X	397	50.427	30.902	55.281	0.00	0.00
ATOM	5990	N	VAL	X	398	51.582	29.951	53.582	0.00	0.00
ATOM	5991	H	VAL	X	398	52.020	29.090	53.286	0.00	0.00
ATOM	5992	CA	VAL	X	398	51.445	31.079	52.652	0.00	0.00
ATOM	5993	HA	VAL	X	398	51.771	31.981	53.169	0.00	0.00
ATOM	5994	CB	VAL	X	398	52.321	30.855	51.373	0.00	0.00
ATOM	5995	HB	VAL	X	398	52.165	29.901	50.870	0.00	0.00
ATOM	5996	CG1	VAL	X	398	52.089	31.848	50.254	0.00	0.00
ATOM	5997	HG11	VAL	X	398	51.063	31.896	49.890	0.00	0.00
ATOM	5998	HG12	VAL	X	398	52.119	32.872	50.625	0.00	0.00
ATOM	5999	HG13	VAL	X	398	52.848	31.776	49.474	0.00	0.00
ATOM	6000	CG2	VAL	X	398	53.761	31.074	51.879	0.00	0.00
ATOM	6001	HG21	VAL	X	398	53.874	32.053	52.346	0.00	0.00
ATOM	6002	HG22	VAL	X	398	54.421	30.958	51.019	0.00	0.00
ATOM	6003	HG23	VAL	X	398	54.111	30.296	52.558	0.00	0.00
ATOM	6004	C	VAL	X	398	49.928	31.283	52.243	0.00	0.00
ATOM	6005	O	VAL	X	398	49.556	32.398	52.076	0.00	0.00
ATOM	6006	N	GLY	X	399	49.095	30.213	52.023	0.00	0.00
ATOM	6007	H	GLY	X	399	49.342	29.244	52.168	0.00	0.00
ATOM	6008	CA	GLY	X	399	47.693	30.378	51.796	0.00	0.00
ATOM	6009	HA2	GLY	X	399	47.503	31.073	50.978	0.00	0.00
ATOM	6010	HA3	GLY	X	399	47.376	29.353	51.605	0.00	0.00
ATOM	6011	C	GLY	X	399	46.913	30.957	52.977	0.00	0.00
ATOM	6012	O	GLY	X	399	46.000	31.772	52.741	0.00	0.00
ATOM	6013	N	ASP	X	400	47.197	30.525	54.196	0.00	0.00
ATOM	6014	H	ASP	X	400	47.813	29.729	54.275	0.00	0.00
ATOM	6015	CA	ASP	X	400	46.480	30.932	55.389	0.00	0.00
ATOM	6016	HA	ASP	X	400	45.429	30.679	55.249	0.00	0.00
ATOM	6017	CB	ASP	X	400	46.949	30.111	56.563	0.00	0.00
ATOM	6018	HB2	ASP	X	400	48.039	30.093	56.580	0.00	0.00
ATOM	6019	HB3	ASP	X	400	46.581	30.687	57.412	0.00	0.00
ATOM	6020	CG	ASP	X	400	46.313	28.709	56.630	0.00	0.00
ATOM	6021	OD1	ASP	X	400	45.250	28.467	56.023	0.00	0.00
ATOM	6022	OD2	ASP	X	400	46.911	27.846	57.361	0.00	0.00
ATOM	6023	C	ASP	X	400	46.638	32.445	55.666	0.00	0.00
ATOM	6024	O	ASP	X	400	45.680	33.149	55.622	0.00	0.00
ATOM	6025	N	HIE	X	401	47.889	32.840	55.823	0.00	0.00
ATOM	6026	H	HIE	X	401	48.604	32.140	55.687	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.287	34.237	56.095	0.00	0.00

ATOM	6028	HA	HIE	X	401	47.884	34.498	57.073	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.807	34.157	56.193	0.00	0.00
ATOM	6030	HB2	HIE	X	401	50.057	33.331	56.860	0.00	0.00
ATOM	6031	HB3	HIE	X	401	50.273	33.762	55.290	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.555	35.414	56.618	0.00	0.00
ATOM	6033	ND1	HIE	X	401	49.998	36.503	57.258	0.00	0.00
ATOM	6034	CE1	HIE	X	401	50.981	37.307	57.509	0.00	0.00
ATOM	6035	HE1	HIE	X	401	50.833	38.217	58.072	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.147	36.821	57.083	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.062	37.137	57.369	0.00	0.00
ATOM	6038	CD2	HIE	X	401	51.910	35.613	56.424	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.607	34.881	56.042	0.00	0.00
ATOM	6040	C	HIE	X	401	47.765	35.169	55.047	0.00	0.00
ATOM	6041	O	HIE	X	401	47.235	36.230	55.428	0.00	0.00
ATOM	6042	N	ASN	X	402	48.011	34.803	53.772	0.00	0.00
ATOM	6043	H	ASN	X	402	48.500	33.969	53.477	0.00	0.00
ATOM	6044	CA	ASN	X	402	47.605	35.665	52.755	0.00	0.00
ATOM	6045	HA	ASN	X	402	47.748	36.669	53.155	0.00	0.00
ATOM	6046	CB	ASN	X	402	48.545	35.676	51.579	0.00	0.00
ATOM	6047	HB2	ASN	X	402	48.514	34.747	51.009	0.00	0.00
ATOM	6048	HB3	ASN	X	402	48.215	36.428	50.861	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.058	35.963	51.886	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.435	37.099	52.081	0.00	0.00
ATOM	6051	ND2	ASN	X	402	50.914	34.936	52.056	0.00	0.00
ATOM	6052	HD21	ASN	X	402	51.888	35.024	52.307	0.00	0.00
ATOM	6053	HD22	ASN	X	402	50.555	33.996	51.969	0.00	0.00
ATOM	6054	C	ASN	X	402	46.124	35.654	52.279	0.00	0.00
ATOM	6055	O	ASN	X	402	45.616	36.754	51.939	0.00	0.00
ATOM	6056	N	VAL	X	403	45.478	34.510	52.324	0.00	0.00
ATOM	6057	H	VAL	X	403	45.975	33.686	52.631	0.00	0.00
ATOM	6058	CA	VAL	X	403	44.080	34.415	51.806	0.00	0.00
ATOM	6059	HA	VAL	X	403	43.676	35.412	51.629	0.00	0.00
ATOM	6060	CB	VAL	X	403	44.182	33.672	50.409	0.00	0.00
ATOM	6061	HB	VAL	X	403	44.592	32.665	50.481	0.00	0.00
ATOM	6062	CG1	VAL	X	403	42.779	33.493	49.930	0.00	0.00
ATOM	6063	HG11	VAL	X	403	42.799	33.026	48.946	0.00	0.00
ATOM	6064	HG12	VAL	X	403	42.203	32.836	50.583	0.00	0.00
ATOM	6065	HG13	VAL	X	403	42.226	34.431	49.871	0.00	0.00
ATOM	6066	CG2	VAL	X	403	45.064	34.440	49.363	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.120	34.389	49.630	0.00	0.00
ATOM	6068	HG22	VAL	X	403	44.648	35.442	49.259	0.00	0.00
ATOM	6069	HG23	VAL	X	403	45.126	33.909	48.413	0.00	0.00
ATOM	6070	C	VAL	X	403	43.180	33.739	52.767	0.00	0.00
ATOM	6071	O	VAL	X	403	42.210	34.370	53.152	0.00	0.00
ATOM	6072	N	VAL	X	404	43.413	32.461	53.161	0.00	0.00
ATOM	6073	H	VAL	X	404	44.218	31.969	52.800	0.00	0.00
ATOM	6074	CA	VAL	X	404	42.302	31.634	53.721	0.00	0.00
ATOM	6075	HA	VAL	X	404	41.447	31.726	53.050	0.00	0.00
ATOM	6076	CB	VAL	X	404	42.660	30.195	53.879	0.00	0.00
ATOM	6077	HB	VAL	X	404	43.321	30.084	54.739	0.00	0.00
ATOM	6078	CG1	VAL	X	404	41.420	29.426	54.217	0.00	0.00
ATOM	6079	HG11	VAL	X	404	41.000	29.709	55.182	0.00	0.00
ATOM	6080	HG12	VAL	X	404	40.679	29.536	53.425	0.00	0.00
ATOM	6081	HG13	VAL	X	404	41.689	28.379	54.357	0.00	0.00
ATOM	6082	CG2	VAL	X	404	43.221	29.575	52.566	0.00	0.00
ATOM	6083	HG21	VAL	X	404	42.552	29.585	51.706	0.00	0.00
ATOM	6084	HG22	VAL	X	404	43.456	28.533	52.786	0.00	0.00
ATOM	6085	HG23	VAL	X	404	44.070	30.142	52.185	0.00	0.00
ATOM	6086	C	VAL	X	404	41.765	32.141	55.103	0.00	0.00
ATOM	6087	O	VAL	X	404	40.571	32.446	55.261	0.00	0.00
ATOM	6088	N	CYX	X	405	42.705	32.568	55.973	0.00	0.00
ATOM	6089	H	CYX	X	405	43.696	32.498	55.792	0.00	0.00
ATOM	6090	CA	CYX	X	405	42.332	33.137	57.269	0.00	0.00
ATOM	6091	HA	CYX	X	405	41.505	32.536	57.648	0.00	0.00
ATOM	6092	CB	CYX	X	405	43.455	32.903	58.306	0.00	0.00
ATOM	6093	HB2	CYX	X	405	44.343	33.331	57.840	0.00	0.00
ATOM	6094	HB3	CYX	X	405	43.258	33.436	59.236	0.00	0.00

ATOM	6095	SG	CYX	X	405	43.758	31.140	58.576	0.00	0.00
ATOM	6096	C	CYX	X	405	41.700	34.550	57.262	0.00	0.00
ATOM	6097	O	CYX	X	405	40.692	34.748	57.959	0.00	0.00
ATOM	6098	N	PRO	X	406	42.228	35.441	56.391	0.00	0.00
ATOM	6099	CD	PRO	X	406	43.577	35.569	55.853	0.00	0.00
ATOM	6100	HD2	PRO	X	406	43.631	34.913	54.984	0.00	0.00
ATOM	6101	HD3	PRO	X	406	44.303	35.370	56.641	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.794	37.008	55.396	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.487	37.162	54.569	0.00	0.00
ATOM	6104	HG3	PRO	X	406	44.049	37.524	56.321	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.340	37.462	55.047	0.00	0.00
ATOM	6106	HB2	PRO	X	406	42.237	37.203	53.993	0.00	0.00
ATOM	6107	HB3	PRO	X	406	42.304	38.549	55.117	0.00	0.00
ATOM	6108	CA	PRO	X	406	41.470	36.679	56.068	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.437	37.312	56.955	0.00	0.00
ATOM	6110	C	PRO	X	406	40.047	36.501	55.499	0.00	0.00
ATOM	6111	O	PRO	X	406	39.101	37.096	56.058	0.00	0.00
ATOM	6112	N	VAL	X	407	39.840	35.668	54.422	0.00	0.00
ATOM	6113	H	VAL	X	407	40.601	35.205	53.947	0.00	0.00
ATOM	6114	CA	VAL	X	407	38.543	35.299	53.864	0.00	0.00
ATOM	6115	HA	VAL	X	407	38.051	36.195	53.486	0.00	0.00
ATOM	6116	CB	VAL	X	407	38.758	34.308	52.664	0.00	0.00
ATOM	6117	HB	VAL	X	407	39.380	33.454	52.931	0.00	0.00
ATOM	6118	CG1	VAL	X	407	37.398	33.642	52.267	0.00	0.00
ATOM	6119	HG11	VAL	X	407	36.689	34.431	52.014	0.00	0.00
ATOM	6120	HG12	VAL	X	407	37.497	33.003	51.389	0.00	0.00
ATOM	6121	HG13	VAL	X	407	37.005	32.961	53.021	0.00	0.00
ATOM	6122	CG2	VAL	X	407	39.322	35.103	51.451	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.637	34.335	50.745	0.00	0.00
ATOM	6124	HG22	VAL	X	407	40.278	35.539	51.739	0.00	0.00
ATOM	6125	HG23	VAL	X	407	38.601	35.826	51.067	0.00	0.00
ATOM	6126	C	VAL	X	407	37.624	34.708	54.915	0.00	0.00
ATOM	6127	O	VAL	X	407	36.517	35.253	54.979	0.00	0.00
ATOM	6128	N	ALA	X	408	38.045	33.816	55.764	0.00	0.00
ATOM	6129	H	ALA	X	408	39.003	33.501	55.715	0.00	0.00
ATOM	6130	CA	ALA	X	408	37.277	33.265	56.904	0.00	0.00
ATOM	6131	HA	ALA	X	408	36.330	32.845	56.565	0.00	0.00
ATOM	6132	CB	ALA	X	408	37.983	32.017	57.455	0.00	0.00
ATOM	6133	HB1	ALA	X	408	38.872	32.324	58.006	0.00	0.00
ATOM	6134	HB2	ALA	X	408	38.274	31.251	56.737	0.00	0.00
ATOM	6135	HB3	ALA	X	408	37.326	31.558	58.194	0.00	0.00
ATOM	6136	C	ALA	X	408	36.872	34.336	57.955	0.00	0.00
ATOM	6137	O	ALA	X	408	35.723	34.292	58.405	0.00	0.00
ATOM	6138	N	GLN	X	409	37.748	35.290	58.288	0.00	0.00
ATOM	6139	H	GLN	X	409	38.644	35.235	57.826	0.00	0.00
ATOM	6140	CA	GLN	X	409	37.511	36.433	59.141	0.00	0.00
ATOM	6141	HA	GLN	X	409	37.251	36.012	60.112	0.00	0.00
ATOM	6142	CB	GLN	X	409	38.832	37.260	59.255	0.00	0.00
ATOM	6143	HB2	GLN	X	409	39.625	36.569	59.542	0.00	0.00
ATOM	6144	HB3	GLN	X	409	39.144	37.741	58.328	0.00	0.00
ATOM	6145	CG	GLN	X	409	38.774	38.347	60.293	0.00	0.00
ATOM	6146	HG2	GLN	X	409	37.866	38.921	60.110	0.00	0.00
ATOM	6147	HG3	GLN	X	409	38.731	37.869	61.272	0.00	0.00
ATOM	6148	CD	GLN	X	409	40.046	39.211	60.430	0.00	0.00
ATOM	6149	OE1	GLN	X	409	40.425	39.822	59.433	0.00	0.00
ATOM	6150	NE2	GLN	X	409	40.777	39.259	61.559	0.00	0.00
ATOM	6151	HE21	GLN	X	409	41.626	39.806	61.535	0.00	0.00
ATOM	6152	HE22	GLN	X	409	40.574	38.796	62.434	0.00	0.00
ATOM	6153	C	GLN	X	409	36.361	37.254	58.613	0.00	0.00
ATOM	6154	O	GLN	X	409	35.361	37.495	59.331	0.00	0.00
ATOM	6155	N	LEU	X	410	36.467	37.634	57.329	0.00	0.00
ATOM	6156	H	LEU	X	410	37.290	37.318	56.835	0.00	0.00
ATOM	6157	CA	LEU	X	410	35.534	38.534	56.570	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.533	39.446	57.167	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.129	38.832	55.164	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.042	39.419	55.266	0.00	0.00
ATOM	6161	HB3	LEU	X	410	36.450	37.915	54.671	0.00	0.00

ATOM	6162	CG	LEU	X	410	35.103	39.639	54.260	0.00	0.00
ATOM	6163	HG	LEU	X	410	34.224	39.005	54.145	0.00	0.00
ATOM	6164	CD1	LEU	X	410	34.868	41.092	54.763	0.00	0.00
ATOM	6165	HD11	LEU	X	410	35.790	41.671	54.813	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.433	41.140	55.761	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.152	41.647	54.156	0.00	0.00
ATOM	6168	CD2	LEU	X	410	35.784	39.728	52.883	0.00	0.00
ATOM	6169	HD21	LEU	X	410	36.728	40.272	52.881	0.00	0.00
ATOM	6170	HD22	LEU	X	410	35.933	38.716	52.506	0.00	0.00
ATOM	6171	HD23	LEU	X	410	35.112	40.197	52.165	0.00	0.00
ATOM	6172	C	LEU	X	410	34.150	37.849	56.524	0.00	0.00
ATOM	6173	O	LEU	X	410	33.199	38.449	56.990	0.00	0.00
ATOM	6174	N	ALA	X	411	34.185	36.582	56.155	0.00	0.00
ATOM	6175	H	ALA	X	411	35.088	36.152	56.014	0.00	0.00
ATOM	6176	CA	ALA	X	411	32.990	35.781	56.063	0.00	0.00
ATOM	6177	HA	ALA	X	411	32.322	36.260	55.349	0.00	0.00
ATOM	6178	CB	ALA	X	411	33.385	34.373	55.520	0.00	0.00
ATOM	6179	HB1	ALA	X	411	33.977	34.459	54.609	0.00	0.00
ATOM	6180	HB2	ALA	X	411	32.469	33.797	55.391	0.00	0.00
ATOM	6181	HB3	ALA	X	411	34.055	33.899	56.237	0.00	0.00
ATOM	6182	C	ALA	X	411	32.231	35.723	57.361	0.00	0.00
ATOM	6183	O	ALA	X	411	31.012	35.952	57.476	0.00	0.00
ATOM	6184	N	GLY	X	412	32.895	35.428	58.481	0.00	0.00
ATOM	6185	H	GLY	X	412	33.875	35.237	58.332	0.00	0.00
ATOM	6186	CA	GLY	X	412	32.333	35.291	59.829	0.00	0.00
ATOM	6187	HA2	GLY	X	412	31.511	34.577	59.788	0.00	0.00
ATOM	6188	HA3	GLY	X	412	33.136	35.003	60.508	0.00	0.00
ATOM	6189	C	GLY	X	412	31.765	36.600	60.380	0.00	0.00
ATOM	6190	O	GLY	X	412	30.652	36.619	60.891	0.00	0.00
ATOM	6191	N	ARG	X	413	32.490	37.736	60.174	0.00	0.00
ATOM	6192	H	ARG	X	413	33.353	37.680	59.652	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.013	39.089	60.521	0.00	0.00
ATOM	6194	HA	ARG	X	413	31.663	39.131	61.552	0.00	0.00
ATOM	6195	CB	ARG	X	413	33.205	40.005	60.302	0.00	0.00
ATOM	6196	HB2	ARG	X	413	33.807	39.622	59.478	0.00	0.00
ATOM	6197	HB3	ARG	X	413	32.817	40.983	60.016	0.00	0.00
ATOM	6198	CG	ARG	X	413	34.083	40.107	61.584	0.00	0.00
ATOM	6199	HG2	ARG	X	413	34.165	39.124	62.049	0.00	0.00
ATOM	6200	HG3	ARG	X	413	35.051	40.533	61.320	0.00	0.00
ATOM	6201	CD	ARG	X	413	33.394	41.109	62.548	0.00	0.00
ATOM	6202	HD2	ARG	X	413	33.156	42.024	62.006	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.496	40.556	62.822	0.00	0.00
ATOM	6204	NE	ARG	X	413	34.240	41.476	63.682	0.00	0.00
ATOM	6205	HE	ARG	X	413	35.246	41.455	63.767	0.00	0.00
ATOM	6206	CZ	ARG	X	413	33.768	42.096	64.810	0.00	0.00
ATOM	6207	NH1	ARG	X	413	32.492	42.302	64.965	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.799	42.101	64.258	0.00	0.00
ATOM	6209	HH12	ARG	X	413	32.195	42.795	65.795	0.00	0.00
ATOM	6210	NH2	ARG	X	413	34.570	42.515	65.724	0.00	0.00
ATOM	6211	HH21	ARG	X	413	35.539	42.231	65.745	0.00	0.00
ATOM	6212	HH22	ARG	X	413	34.204	42.948	66.560	0.00	0.00
ATOM	6213	C	ARG	X	413	30.777	39.503	59.707	0.00	0.00
ATOM	6214	O	ARG	X	413	29.751	39.742	60.332	0.00	0.00
ATOM	6215	N	LEU	X	414	30.839	39.387	58.354	0.00	0.00
ATOM	6216	H	LEU	X	414	31.700	39.076	57.926	0.00	0.00
ATOM	6217	CA	LEU	X	414	29.710	39.577	57.473	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.316	40.590	57.557	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.023	39.222	56.030	0.00	0.00
ATOM	6220	HB2	LEU	X	414	30.434	38.213	56.068	0.00	0.00
ATOM	6221	HB3	LEU	X	414	29.154	39.112	55.381	0.00	0.00
ATOM	6222	CG	LEU	X	414	30.983	40.197	55.285	0.00	0.00
ATOM	6223	HG	LEU	X	414	31.943	40.230	55.801	0.00	0.00
ATOM	6224	CD1	LEU	X	414	31.286	39.638	53.868	0.00	0.00
ATOM	6225	HD11	LEU	X	414	31.889	40.319	53.266	0.00	0.00
ATOM	6226	HD12	LEU	X	414	30.391	39.384	53.301	0.00	0.00
ATOM	6227	HD13	LEU	X	414	31.823	38.693	53.940	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.371	41.605	55.068	0.00	0.00

ATOM	6229	HD21	LEU	X	414	30.262	42.174	55.991	0.00	0.00
ATOM	6230	HD22	LEU	X	414	31.020	42.212	54.437	0.00	0.00
ATOM	6231	HD23	LEU	X	414	29.393	41.552	54.589	0.00	0.00
ATOM	6232	C	LEU	X	414	28.459	38.827	57.950	0.00	0.00
ATOM	6233	O	LEU	X	414	27.346	39.411	58.096	0.00	0.00
ATOM	6234	N	ALA	X	415	28.604	37.568	58.170	0.00	0.00
ATOM	6235	H	ALA	X	415	29.492	37.156	57.922	0.00	0.00
ATOM	6236	CA	ALA	X	415	27.426	36.699	58.519	0.00	0.00
ATOM	6237	HA	ALA	X	415	26.719	36.841	57.701	0.00	0.00
ATOM	6238	CB	ALA	X	415	27.946	35.213	58.482	0.00	0.00
ATOM	6239	HB1	ALA	X	415	28.424	34.868	57.565	0.00	0.00
ATOM	6240	HB2	ALA	X	415	27.034	34.623	58.573	0.00	0.00
ATOM	6241	HB3	ALA	X	415	28.586	35.078	59.353	0.00	0.00
ATOM	6242	C	ALA	X	415	26.879	37.024	59.891	0.00	0.00
ATOM	6243	O	ALA	X	415	25.655	36.846	60.154	0.00	0.00
ATOM	6244	N	ALA	X	416	27.672	37.523	60.867	0.00	0.00
ATOM	6245	H	ALA	X	416	28.666	37.544	60.688	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.220	37.997	62.254	0.00	0.00
ATOM	6247	HA	ALA	X	416	26.543	37.282	62.721	0.00	0.00
ATOM	6248	CB	ALA	X	416	28.465	38.024	63.090	0.00	0.00
ATOM	6249	HB1	ALA	X	416	29.136	38.738	62.612	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.923	37.037	63.152	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.200	38.265	64.120	0.00	0.00
ATOM	6252	C	ALA	X	416	26.544	39.396	62.153	0.00	0.00
ATOM	6253	O	ALA	X	416	25.794	39.742	63.021	0.00	0.00
ATOM	6254	N	GLN	X	417	26.868	40.253	61.115	0.00	0.00
ATOM	6255	H	GLN	X	417	27.490	39.858	60.425	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.406	41.654	60.986	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.815	42.007	61.832	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.663	42.566	60.821	0.00	0.00
ATOM	6259	HB2	GLN	X	417	28.263	42.149	60.012	0.00	0.00
ATOM	6260	HB3	GLN	X	417	27.257	43.517	60.475	0.00	0.00
ATOM	6261	CG	GLN	X	417	28.328	42.772	62.169	0.00	0.00
ATOM	6262	HG2	GLN	X	417	27.833	43.636	62.613	0.00	0.00
ATOM	6263	HG3	GLN	X	417	28.013	41.953	62.815	0.00	0.00
ATOM	6264	CD	GLN	X	417	29.831	43.017	62.174	0.00	0.00
ATOM	6265	OE1	GLN	X	417	30.658	42.474	62.924	0.00	0.00
ATOM	6266	NE2	GLN	X	417	30.310	43.921	61.332	0.00	0.00
ATOM	6267	HE21	GLN	X	417	31.318	43.934	61.272	0.00	0.00
ATOM	6268	HE22	GLN	X	417	29.651	44.510	60.843	0.00	0.00
ATOM	6269	C	GLN	X	417	25.426	41.848	59.816	0.00	0.00
ATOM	6270	O	GLN	X	417	25.202	42.972	59.306	0.00	0.00
ATOM	6271	N	GLY	X	418	24.751	40.698	59.497	0.00	0.00
ATOM	6272	H	GLY	X	418	25.045	39.831	59.924	0.00	0.00
ATOM	6273	CA	GLY	X	418	23.520	40.696	58.746	0.00	0.00
ATOM	6274	HA2	GLY	X	418	22.889	39.980	59.272	0.00	0.00
ATOM	6275	HA3	GLY	X	418	23.044	41.677	58.735	0.00	0.00
ATOM	6276	C	GLY	X	418	23.560	40.218	57.281	0.00	0.00
ATOM	6277	O	GLY	X	418	22.541	40.103	56.691	0.00	0.00
ATOM	6278	N	ALA	X	419	24.747	39.777	56.763	0.00	0.00
ATOM	6279	H	ALA	X	419	25.595	39.797	57.311	0.00	0.00
ATOM	6280	CA	ALA	X	419	24.842	39.379	55.340	0.00	0.00
ATOM	6281	HA	ALA	X	419	24.182	39.980	54.715	0.00	0.00
ATOM	6282	CB	ALA	X	419	26.255	39.561	54.855	0.00	0.00
ATOM	6283	HB1	ALA	X	419	26.291	39.405	53.777	0.00	0.00
ATOM	6284	HB2	ALA	X	419	26.871	38.768	55.281	0.00	0.00
ATOM	6285	HB3	ALA	X	419	26.488	40.603	55.072	0.00	0.00
ATOM	6286	C	ALA	X	419	24.501	37.842	55.139	0.00	0.00
ATOM	6287	O	ALA	X	419	25.075	36.953	55.791	0.00	0.00
ATOM	6288	N	ARG	X	420	23.799	37.574	54.009	0.00	0.00
ATOM	6289	H	ARG	X	420	23.392	38.352	53.509	0.00	0.00
ATOM	6290	CA	ARG	X	420	23.527	36.196	53.601	0.00	0.00
ATOM	6291	HA	ARG	X	420	23.336	35.553	54.461	0.00	0.00
ATOM	6292	CB	ARG	X	420	22.258	36.268	52.689	0.00	0.00
ATOM	6293	HB2	ARG	X	420	21.426	36.587	53.317	0.00	0.00
ATOM	6294	HB3	ARG	X	420	22.385	36.908	51.816	0.00	0.00
ATOM	6295	CG	ARG	X	420	21.854	34.821	52.246	0.00	0.00

ATOM	6296	HG2	ARG	X	420	21.521	34.804	51.208	0.00	0.00
ATOM	6297	HG3	ARG	X	420	22.629	34.087	52.467	0.00	0.00
ATOM	6298	CD	ARG	X	420	20.582	34.314	52.934	0.00	0.00
ATOM	6299	HD2	ARG	X	420	20.790	34.184	53.996	0.00	0.00
ATOM	6300	HD3	ARG	X	420	19.800	35.068	52.844	0.00	0.00
ATOM	6301	NE	ARG	X	420	20.031	33.144	52.294	0.00	0.00
ATOM	6302	HE	ARG	X	420	20.379	32.946	51.367	0.00	0.00
ATOM	6303	CZ	ARG	X	420	19.138	32.280	52.812	0.00	0.00
ATOM	6304	NH1	ARG	X	420	18.659	32.439	54.032	0.00	0.00
ATOM	6305	HH11	ARG	X	420	18.614	33.348	54.471	0.00	0.00
ATOM	6306	HH12	ARG	X	420	18.059	31.721	54.411	0.00	0.00
ATOM	6307	NH2	ARG	X	420	18.626	31.321	52.036	0.00	0.00
ATOM	6308	HH21	ARG	X	420	18.660	31.283	51.028	0.00	0.00
ATOM	6309	HH22	ARG	X	420	17.889	30.743	52.412	0.00	0.00
ATOM	6310	C	ARG	X	420	24.763	35.725	52.917	0.00	0.00
ATOM	6311	O	ARG	X	420	24.877	35.863	51.639	0.00	0.00
ATOM	6312	N	VAL	X	421	25.761	35.201	53.707	0.00	0.00
ATOM	6313	H	VAL	X	421	25.574	35.214	54.699	0.00	0.00
ATOM	6314	CA	VAL	X	421	27.042	34.745	53.208	0.00	0.00
ATOM	6315	HA	VAL	X	421	27.367	35.318	52.340	0.00	0.00
ATOM	6316	CB	VAL	X	421	28.206	34.959	54.294	0.00	0.00
ATOM	6317	HB	VAL	X	421	27.945	34.355	55.163	0.00	0.00
ATOM	6318	CG1	VAL	X	421	29.594	34.564	53.746	0.00	0.00
ATOM	6319	HG11	VAL	X	421	29.896	35.042	52.815	0.00	0.00
ATOM	6320	HG12	VAL	X	421	30.352	34.781	54.499	0.00	0.00
ATOM	6321	HG13	VAL	X	421	29.573	33.486	53.582	0.00	0.00
ATOM	6322	CG2	VAL	X	421	28.298	36.399	54.772	0.00	0.00
ATOM	6323	HG21	VAL	X	421	29.085	36.561	55.507	0.00	0.00
ATOM	6324	HG22	VAL	X	421	27.364	36.690	55.254	0.00	0.00
ATOM	6325	HG23	VAL	X	421	28.333	37.073	53.915	0.00	0.00
ATOM	6326	C	VAL	X	421	26.997	33.239	52.867	0.00	0.00
ATOM	6327	O	VAL	X	421	26.368	32.504	53.572	0.00	0.00
ATOM	6328	N	TYR	X	422	27.733	32.796	51.843	0.00	0.00
ATOM	6329	H	TYR	X	422	28.265	33.478	51.321	0.00	0.00
ATOM	6330	CA	TYR	X	422	27.878	31.344	51.405	0.00	0.00
ATOM	6331	HA	TYR	X	422	27.586	30.648	52.192	0.00	0.00
ATOM	6332	CB	TYR	X	422	27.084	31.054	50.145	0.00	0.00
ATOM	6333	HB2	TYR	X	422	27.442	31.821	49.458	0.00	0.00
ATOM	6334	HB3	TYR	X	422	27.344	30.104	49.677	0.00	0.00
ATOM	6335	CG	TYR	X	422	25.531	31.167	50.234	0.00	0.00
ATOM	6336	CD1	TYR	X	422	24.693	29.997	50.338	0.00	0.00
ATOM	6337	HD1	TYR	X	422	25.178	29.048	50.163	0.00	0.00
ATOM	6338	CE1	TYR	X	422	23.346	30.114	50.464	0.00	0.00
ATOM	6339	HE1	TYR	X	422	22.757	29.225	50.635	0.00	0.00
ATOM	6340	CZ	TYR	X	422	22.708	31.380	50.306	0.00	0.00
ATOM	6341	OH	TYR	X	422	21.367	31.476	50.279	0.00	0.00
ATOM	6342	HH	TYR	X	422	21.002	30.613	50.073	0.00	0.00
ATOM	6343	CE2	TYR	X	422	23.521	32.561	50.228	0.00	0.00
ATOM	6344	HE2	TYR	X	422	23.101	33.555	50.168	0.00	0.00
ATOM	6345	CD2	TYR	X	422	24.945	32.414	50.199	0.00	0.00
ATOM	6346	HD2	TYR	X	422	25.553	33.305	50.148	0.00	0.00
ATOM	6347	C	TYR	X	422	29.390	31.057	51.104	0.00	0.00
ATOM	6348	O	TYR	X	422	30.045	31.801	50.419	0.00	0.00
ATOM	6349	N	ALA	X	423	29.893	29.886	51.502	0.00	0.00
ATOM	6350	H	ALA	X	423	29.209	29.262	51.905	0.00	0.00
ATOM	6351	CA	ALA	X	423	31.354	29.519	51.388	0.00	0.00
ATOM	6352	HA	ALA	X	423	31.904	30.384	51.019	0.00	0.00
ATOM	6353	CB	ALA	X	423	31.842	29.375	52.885	0.00	0.00
ATOM	6354	HB1	ALA	X	423	31.342	28.566	53.417	0.00	0.00
ATOM	6355	HB2	ALA	X	423	31.607	30.249	53.493	0.00	0.00
ATOM	6356	HB3	ALA	X	423	32.928	29.290	52.847	0.00	0.00
ATOM	6357	C	ALA	X	423	31.610	28.213	50.599	0.00	0.00
ATOM	6358	O	ALA	X	423	30.893	27.237	50.737	0.00	0.00
ATOM	6359	N	TYR	X	424	32.729	28.198	49.846	0.00	0.00
ATOM	6360	H	TYR	X	424	33.352	28.990	49.777	0.00	0.00
ATOM	6361	CA	TYR	X	424	33.294	27.028	49.208	0.00	0.00
ATOM	6362	HA	TYR	X	424	32.768	26.136	49.549	0.00	0.00

ATOM	6363	CB	TYR	X	424	33.099	27.075	47.639	0.00	0.00
ATOM	6364	HB2	TYR	X	424	33.335	26.089	47.238	0.00	0.00
ATOM	6365	HB3	TYR	X	424	32.023	27.130	47.470	0.00	0.00
ATOM	6366	CG	TYR	X	424	33.841	28.129	46.848	0.00	0.00
ATOM	6367	CD1	TYR	X	424	35.091	27.802	46.325	0.00	0.00
ATOM	6368	HD1	TYR	X	424	35.620	26.881	46.519	0.00	0.00
ATOM	6369	CE1	TYR	X	424	35.765	28.773	45.560	0.00	0.00
ATOM	6370	HE1	TYR	X	424	36.793	28.629	45.262	0.00	0.00
ATOM	6371	CZ	TYR	X	424	35.128	29.998	45.288	0.00	0.00
ATOM	6372	OH	TYR	X	424	35.770	30.990	44.579	0.00	0.00
ATOM	6373	HH	TYR	X	424	36.637	30.747	44.248	0.00	0.00
ATOM	6374	CE2	TYR	X	424	33.870	30.321	45.813	0.00	0.00
ATOM	6375	HE2	TYR	X	424	33.410	31.297	45.772	0.00	0.00
ATOM	6376	CD2	TYR	X	424	33.249	29.353	46.625	0.00	0.00
ATOM	6377	HD2	TYR	X	424	32.339	29.614	47.145	0.00	0.00
ATOM	6378	C	TYR	X	424	34.849	26.790	49.442	0.00	0.00
ATOM	6379	O	TYR	X	424	35.668	27.793	49.568	0.00	0.00
ATOM	6380	N	VAL	X	425	35.234	25.505	49.287	0.00	0.00
ATOM	6381	H	VAL	X	425	34.519	24.851	49.001	0.00	0.00
ATOM	6382	CA	VAL	X	425	36.607	25.191	48.934	0.00	0.00
ATOM	6383	HA	VAL	X	425	37.214	26.094	48.860	0.00	0.00
ATOM	6384	CB	VAL	X	425	37.330	24.334	49.957	0.00	0.00
ATOM	6385	HB	VAL	X	425	36.689	23.488	50.202	0.00	0.00
ATOM	6386	CG1	VAL	X	425	38.700	23.820	49.435	0.00	0.00
ATOM	6387	HG11	VAL	X	425	39.259	24.720	49.177	0.00	0.00
ATOM	6388	HG12	VAL	X	425	39.178	23.241	50.225	0.00	0.00
ATOM	6389	HG13	VAL	X	425	38.553	23.115	48.618	0.00	0.00
ATOM	6390	CG2	VAL	X	425	37.455	25.121	51.310	0.00	0.00
ATOM	6391	HG21	VAL	X	425	36.495	25.515	51.642	0.00	0.00
ATOM	6392	HG22	VAL	X	425	38.068	26.011	51.170	0.00	0.00
ATOM	6393	HG23	VAL	X	425	37.928	24.559	52.116	0.00	0.00
ATOM	6394	C	VAL	X	425	36.571	24.465	47.575	0.00	0.00
ATOM	6395	O	VAL	X	425	35.664	23.630	47.417	0.00	0.00
ATOM	6396	N	PHE	X	426	37.448	24.796	46.636	0.00	0.00
ATOM	6397	H	PHE	X	426	38.163	25.449	46.924	0.00	0.00
ATOM	6398	CA	PHE	X	426	37.505	24.261	45.242	0.00	0.00
ATOM	6399	HA	PHE	X	426	36.608	23.697	44.986	0.00	0.00
ATOM	6400	CB	PHE	X	426	37.571	25.413	44.245	0.00	0.00
ATOM	6401	HB2	PHE	X	426	36.792	26.147	44.450	0.00	0.00
ATOM	6402	HB3	PHE	X	426	38.488	25.980	44.410	0.00	0.00
ATOM	6403	CG	PHE	X	426	37.492	25.140	42.766	0.00	0.00
ATOM	6404	CD1	PHE	X	426	36.308	25.336	42.004	0.00	0.00
ATOM	6405	HD1	PHE	X	426	35.353	25.541	42.465	0.00	0.00
ATOM	6406	CE1	PHE	X	426	36.309	25.045	40.629	0.00	0.00
ATOM	6407	HE1	PHE	X	426	35.431	25.051	40.001	0.00	0.00
ATOM	6408	CZ	PHE	X	426	37.524	24.560	40.038	0.00	0.00
ATOM	6409	HZ	PHE	X	426	37.592	24.166	39.035	0.00	0.00
ATOM	6410	CE2	PHE	X	426	38.726	24.393	40.814	0.00	0.00
ATOM	6411	HE2	PHE	X	426	39.684	24.145	40.381	0.00	0.00
ATOM	6412	CD2	PHE	X	426	38.735	24.792	42.166	0.00	0.00
ATOM	6413	HD2	PHE	X	426	39.674	24.683	42.689	0.00	0.00
ATOM	6414	C	PHE	X	426	38.723	23.354	45.121	0.00	0.00
ATOM	6415	O	PHE	X	426	39.819	23.709	45.544	0.00	0.00
ATOM	6416	N	GLU	X	427	38.484	22.178	44.544	0.00	0.00
ATOM	6417	H	GLU	X	427	37.506	22.094	44.307	0.00	0.00
ATOM	6418	CA	GLU	X	427	39.305	20.981	44.723	0.00	0.00
ATOM	6419	HA	GLU	X	427	40.312	21.398	44.735	0.00	0.00
ATOM	6420	CB	GLU	X	427	39.001	20.359	46.129	0.00	0.00
ATOM	6421	HB2	GLU	X	427	39.789	19.624	46.287	0.00	0.00
ATOM	6422	HB3	GLU	X	427	39.014	21.128	46.901	0.00	0.00
ATOM	6423	CG	GLU	X	427	37.547	19.689	46.253	0.00	0.00
ATOM	6424	HG2	GLU	X	427	36.889	20.400	45.752	0.00	0.00
ATOM	6425	HG3	GLU	X	427	37.567	18.690	45.817	0.00	0.00
ATOM	6426	CD	GLU	X	427	37.150	19.488	47.702	0.00	0.00
ATOM	6427	OE1	GLU	X	427	37.085	18.382	48.161	0.00	0.00
ATOM	6428	OE2	GLU	X	427	36.877	20.499	48.372	0.00	0.00
ATOM	6429	C	GLU	X	427	39.340	19.924	43.677	0.00	0.00

ATOM	6430	O	GLU	X	427	39.913	18.818	43.887	0.00	0.00
ATOM	6431	N	HIE	X	428	38.821	20.214	42.487	0.00	0.00
ATOM	6432	H	HIE	X	428	38.228	21.030	42.435	0.00	0.00
ATOM	6433	CA	HIE	X	428	39.093	19.560	41.243	0.00	0.00
ATOM	6434	HA	HIE	X	428	39.235	18.496	41.432	0.00	0.00
ATOM	6435	CB	HIE	X	428	37.873	19.754	40.320	0.00	0.00
ATOM	6436	HB2	HIE	X	428	36.937	19.297	40.639	0.00	0.00
ATOM	6437	HB3	HIE	X	428	37.598	20.794	40.147	0.00	0.00
ATOM	6438	CG	HIE	X	428	38.225	19.186	38.908	0.00	0.00
ATOM	6439	ND1	HIE	X	428	38.374	17.782	38.587	0.00	0.00
ATOM	6440	CE1	HIE	X	428	38.609	17.756	37.274	0.00	0.00
ATOM	6441	HE1	HIE	X	428	38.861	16.862	36.723	0.00	0.00
ATOM	6442	NE2	HIE	X	428	38.610	18.989	36.763	0.00	0.00
ATOM	6443	HE2	HIE	X	428	39.062	19.227	35.891	0.00	0.00
ATOM	6444	CD2	HIE	X	428	38.394	19.897	37.818	0.00	0.00
ATOM	6445	HD2	HIE	X	428	38.342	20.970	37.705	0.00	0.00
ATOM	6446	C	HIE	X	428	40.347	20.160	40.595	0.00	0.00
ATOM	6447	O	HIE	X	428	40.452	21.395	40.408	0.00	0.00
ATOM	6448	N	ARG	X	429	41.280	19.327	40.176	0.00	0.00
ATOM	6449	H	ARG	X	429	41.207	18.323	40.250	0.00	0.00
ATOM	6450	CA	ARG	X	429	42.464	19.748	39.365	0.00	0.00
ATOM	6451	HA	ARG	X	429	42.598	20.811	39.565	0.00	0.00
ATOM	6452	CB	ARG	X	429	43.682	18.906	39.732	0.00	0.00
ATOM	6453	HB2	ARG	X	429	43.788	18.862	40.816	0.00	0.00
ATOM	6454	HB3	ARG	X	429	43.621	17.904	39.308	0.00	0.00
ATOM	6455	CG	ARG	X	429	44.902	19.586	39.115	0.00	0.00
ATOM	6456	HG2	ARG	X	429	44.754	19.685	38.039	0.00	0.00
ATOM	6457	HG3	ARG	X	429	45.008	20.606	39.485	0.00	0.00
ATOM	6458	CD	ARG	X	429	46.212	18.784	39.426	0.00	0.00
ATOM	6459	HD2	ARG	X	429	46.168	18.406	40.447	0.00	0.00
ATOM	6460	HD3	ARG	X	429	46.121	17.909	38.782	0.00	0.00
ATOM	6461	NE	ARG	X	429	47.420	19.638	39.304	0.00	0.00
ATOM	6462	HE	ARG	X	429	47.685	20.120	40.150	0.00	0.00
ATOM	6463	CZ	ARG	X	429	48.117	19.909	38.207	0.00	0.00
ATOM	6464	NH1	ARG	X	429	47.792	19.338	37.001	0.00	0.00
ATOM	6465	HH11	ARG	X	429	46.943	18.819	36.832	0.00	0.00
ATOM	6466	HH12	ARG	X	429	48.425	19.417	36.217	0.00	0.00
ATOM	6467	NH2	ARG	X	429	49.187	20.684	38.190	0.00	0.00
ATOM	6468	HH21	ARG	X	429	49.592	21.074	39.030	0.00	0.00
ATOM	6469	HH22	ARG	X	429	49.773	20.703	37.368	0.00	0.00
ATOM	6470	C	ARG	X	429	42.046	19.649	37.876	0.00	0.00
ATOM	6471	O	ARG	X	429	41.890	18.530	37.476	0.00	0.00
ATOM	6472	N	ALA	X	430	42.111	20.708	37.101	0.00	0.00
ATOM	6473	H	ALA	X	430	42.213	21.608	37.548	0.00	0.00
ATOM	6474	CA	ALA	X	430	42.010	20.705	35.648	0.00	0.00
ATOM	6475	HA	ALA	X	430	40.975	20.410	35.478	0.00	0.00
ATOM	6476	CB	ALA	X	430	42.248	22.150	35.202	0.00	0.00
ATOM	6477	HB1	ALA	X	430	42.014	22.224	34.140	0.00	0.00
ATOM	6478	HB2	ALA	X	430	43.277	22.476	35.355	0.00	0.00
ATOM	6479	HB3	ALA	X	430	41.573	22.832	35.719	0.00	0.00
ATOM	6480	C	ALA	X	430	42.982	19.811	34.851	0.00	0.00
ATOM	6481	O	ALA	X	430	44.160	19.831	35.134	0.00	0.00
ATOM	6482	N	SER	X	431	42.419	19.179	33.832	0.00	0.00
ATOM	6483	H	SER	X	431	41.421	19.263	33.700	0.00	0.00
ATOM	6484	CA	SER	X	431	43.136	18.324	32.836	0.00	0.00
ATOM	6485	HA	SER	X	431	43.689	17.520	33.323	0.00	0.00
ATOM	6486	CB	SER	X	431	42.129	17.730	31.889	0.00	0.00
ATOM	6487	HB2	SER	X	431	42.559	17.140	31.079	0.00	0.00
ATOM	6488	HB3	SER	X	431	41.380	17.097	32.365	0.00	0.00
ATOM	6489	OG	SER	X	431	41.487	18.754	31.131	0.00	0.00
ATOM	6490	HG	SER	X	431	40.562	18.757	31.385	0.00	0.00
ATOM	6491	C	SER	X	431	44.117	19.095	31.916	0.00	0.00
ATOM	6492	O	SER	X	431	45.131	18.549	31.441	0.00	0.00
ATOM	6493	N	THR	X	432	43.824	20.410	31.751	0.00	0.00
ATOM	6494	H	THR	X	432	43.007	20.699	32.269	0.00	0.00
ATOM	6495	CA	THR	X	432	44.402	21.407	30.866	0.00	0.00
ATOM	6496	HA	THR	X	432	44.856	20.821	30.067	0.00	0.00

ATOM	6497	CB	THR	X	432	43.267	22.158	30.073	0.00	0.00
ATOM	6498	HB	THR	X	432	42.651	22.626	30.841	0.00	0.00
ATOM	6499	CG2	THR	X	432	43.843	23.117	29.087	0.00	0.00
ATOM	6500	HG21	THR	X	432	44.589	22.600	28.483	0.00	0.00
ATOM	6501	HG22	THR	X	432	44.248	23.964	29.641	0.00	0.00
ATOM	6502	HG23	THR	X	432	43.031	23.434	28.433	0.00	0.00
ATOM	6503	OG1	THR	X	432	42.479	21.165	29.496	0.00	0.00
ATOM	6504	HG1	THR	X	432	42.220	20.581	30.213	0.00	0.00
ATOM	6505	C	THR	X	432	45.598	22.248	31.521	0.00	0.00
ATOM	6506	O	THR	X	432	46.295	22.908	30.791	0.00	0.00
ATOM	6507	N	LEU	X	433	45.743	22.065	32.895	0.00	0.00
ATOM	6508	H	LEU	X	433	45.270	21.252	33.263	0.00	0.00
ATOM	6509	CA	LEU	X	433	46.722	22.854	33.729	0.00	0.00
ATOM	6510	HA	LEU	X	433	46.557	23.914	33.537	0.00	0.00
ATOM	6511	CB	LEU	X	433	46.499	22.484	35.260	0.00	0.00
ATOM	6512	HB2	LEU	X	433	45.631	21.825	35.286	0.00	0.00
ATOM	6513	HB3	LEU	X	433	47.316	21.912	35.699	0.00	0.00
ATOM	6514	CG	LEU	X	433	46.207	23.757	36.107	0.00	0.00
ATOM	6515	HG	LEU	X	433	45.505	24.447	35.639	0.00	0.00
ATOM	6516	CD1	LEU	X	433	45.668	23.296	37.453	0.00	0.00
ATOM	6517	HD11	LEU	X	433	46.468	22.912	38.086	0.00	0.00
ATOM	6518	HD12	LEU	X	433	44.769	22.683	37.388	0.00	0.00
ATOM	6519	HD13	LEU	X	433	45.244	24.111	38.038	0.00	0.00
ATOM	6520	CD2	LEU	X	433	47.464	24.563	36.261	0.00	0.00
ATOM	6521	HD21	LEU	X	433	47.196	25.434	36.859	0.00	0.00
ATOM	6522	HD22	LEU	X	433	48.282	23.916	36.577	0.00	0.00
ATOM	6523	HD23	LEU	X	433	47.716	24.961	35.278	0.00	0.00
ATOM	6524	C	LEU	X	433	48.194	22.557	33.318	0.00	0.00
ATOM	6525	O	LEU	X	433	48.603	21.359	33.184	0.00	0.00
ATOM	6526	N	SER	X	434	49.073	23.539	33.151	0.00	0.00
ATOM	6527	H	SER	X	434	48.821	24.515	33.203	0.00	0.00
ATOM	6528	CA	SER	X	434	50.459	23.300	32.730	0.00	0.00
ATOM	6529	HA	SER	X	434	50.532	22.353	32.194	0.00	0.00
ATOM	6530	CB	SER	X	434	50.914	24.388	31.693	0.00	0.00
ATOM	6531	HB2	SER	X	434	51.997	24.412	31.578	0.00	0.00
ATOM	6532	HB3	SER	X	434	50.676	24.033	30.690	0.00	0.00
ATOM	6533	OG	SER	X	434	50.300	25.622	31.980	0.00	0.00
ATOM	6534	HG	SER	X	434	49.659	25.808	31.290	0.00	0.00
ATOM	6535	C	SER	X	434	51.454	23.228	33.934	0.00	0.00
ATOM	6536	O	SER	X	434	52.489	22.545	33.826	0.00	0.00
ATOM	6537	N	TRP	X	435	51.072	23.780	35.125	0.00	0.00
ATOM	6538	H	TRP	X	435	50.176	24.238	35.207	0.00	0.00
ATOM	6539	CA	TRP	X	435	51.910	23.637	36.348	0.00	0.00
ATOM	6540	HA	TRP	X	435	52.889	24.037	36.086	0.00	0.00
ATOM	6541	CB	TRP	X	435	51.341	24.574	37.376	0.00	0.00
ATOM	6542	HB2	TRP	X	435	50.276	24.414	37.540	0.00	0.00
ATOM	6543	HB3	TRP	X	435	51.770	24.433	38.368	0.00	0.00
ATOM	6544	CG	TRP	X	435	51.432	26.030	37.024	0.00	0.00
ATOM	6545	CD1	TRP	X	435	50.415	26.804	36.602	0.00	0.00
ATOM	6546	HD1	TRP	X	435	49.391	26.505	36.432	0.00	0.00
ATOM	6547	NE1	TRP	X	435	50.864	28.115	36.466	0.00	0.00
ATOM	6548	HE1	TRP	X	435	50.245	28.902	36.338	0.00	0.00
ATOM	6549	CE2	TRP	X	435	52.189	28.258	36.827	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	53.002	29.364	36.993	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	52.645	30.350	36.733	0.00	0.00
ATOM	6552	CH2	TRP	X	435	54.341	29.149	37.442	0.00	0.00
ATOM	6553	HH2	TRP	X	435	54.995	29.990	37.619	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	54.712	27.847	37.751	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	55.726	27.686	38.089	0.00	0.00
ATOM	6556	CE3	TRP	X	435	53.826	26.761	37.625	0.00	0.00
ATOM	6557	HE3	TRP	X	435	54.155	25.824	38.050	0.00	0.00
ATOM	6558	CD2	TRP	X	435	52.553	26.931	37.102	0.00	0.00
ATOM	6559	C	TRP	X	435	52.089	22.174	36.815	0.00	0.00
ATOM	6560	O	TRP	X	435	51.192	21.379	36.493	0.00	0.00
ATOM	6561	N	PRO	X	436	53.133	21.869	37.597	0.00	0.00
ATOM	6562	CD	PRO	X	436	54.183	22.775	37.991	0.00	0.00
ATOM	6563	HD2	PRO	X	436	53.878	23.758	38.352	0.00	0.00

ATOM	6564	HD3	PRO	X	436	54.804	22.980	37.118	0.00	0.00
ATOM	6565	CG	PRO	X	436	54.943	22.061	39.063	0.00	0.00
ATOM	6566	HG2	PRO	X	436	54.481	22.225	40.036	0.00	0.00
ATOM	6567	HG3	PRO	X	436	55.979	22.369	39.205	0.00	0.00
ATOM	6568	CB	PRO	X	436	54.817	20.587	38.718	0.00	0.00
ATOM	6569	HB2	PRO	X	436	54.883	19.957	39.604	0.00	0.00
ATOM	6570	HB3	PRO	X	436	55.552	20.374	37.942	0.00	0.00
ATOM	6571	CA	PRO	X	436	53.410	20.531	38.088	0.00	0.00
ATOM	6572	HA	PRO	X	436	53.485	19.834	37.253	0.00	0.00
ATOM	6573	C	PRO	X	436	52.340	20.098	39.079	0.00	0.00
ATOM	6574	O	PRO	X	436	51.678	20.917	39.700	0.00	0.00
ATOM	6575	N	LEU	X	437	52.278	18.818	39.359	0.00	0.00
ATOM	6576	H	LEU	X	437	52.880	18.155	38.893	0.00	0.00
ATOM	6577	CA	LEU	X	437	51.317	18.209	40.197	0.00	0.00
ATOM	6578	HA	LEU	X	437	50.307	18.557	39.980	0.00	0.00
ATOM	6579	CB	LEU	X	437	51.308	16.654	40.009	0.00	0.00
ATOM	6580	HB2	LEU	X	437	51.236	16.532	38.929	0.00	0.00
ATOM	6581	HB3	LEU	X	437	52.293	16.283	40.294	0.00	0.00
ATOM	6582	CG	LEU	X	437	50.272	15.853	40.738	0.00	0.00
ATOM	6583	HG	LEU	X	437	50.415	15.981	41.811	0.00	0.00
ATOM	6584	CD1	LEU	X	437	48.821	16.126	40.328	0.00	0.00
ATOM	6585	HD11	LEU	X	437	48.185	15.334	40.722	0.00	0.00
ATOM	6586	HD12	LEU	X	437	48.715	16.102	39.244	0.00	0.00
ATOM	6587	HD13	LEU	X	437	48.566	17.133	40.660	0.00	0.00
ATOM	6588	CD2	LEU	X	437	50.540	14.364	40.434	0.00	0.00
ATOM	6589	HD21	LEU	X	437	50.432	14.187	39.364	0.00	0.00
ATOM	6590	HD22	LEU	X	437	51.586	14.179	40.676	0.00	0.00
ATOM	6591	HD23	LEU	X	437	49.864	13.814	41.090	0.00	0.00
ATOM	6592	C	LEU	X	437	51.504	18.637	41.664	0.00	0.00
ATOM	6593	O	LEU	X	437	50.459	18.763	42.305	0.00	0.00
ATOM	6594	N	TRP	X	438	52.734	18.967	42.100	0.00	0.00
ATOM	6595	H	TRP	X	438	53.511	19.109	41.470	0.00	0.00
ATOM	6596	CA	TRP	X	438	52.973	19.306	43.538	0.00	0.00
ATOM	6597	HA	TRP	X	438	52.575	18.441	44.068	0.00	0.00
ATOM	6598	CB	TRP	X	438	54.507	19.368	43.764	0.00	0.00
ATOM	6599	HB2	TRP	X	438	54.584	19.443	44.848	0.00	0.00
ATOM	6600	HB3	TRP	X	438	54.971	18.474	43.347	0.00	0.00
ATOM	6601	CG	TRP	X	438	55.242	20.562	43.187	0.00	0.00
ATOM	6602	CD1	TRP	X	438	56.088	20.532	42.150	0.00	0.00
ATOM	6603	HD1	TRP	X	438	56.255	19.641	41.562	0.00	0.00
ATOM	6604	NE1	TRP	X	438	56.685	21.755	42.005	0.00	0.00
ATOM	6605	HE1	TRP	X	438	57.414	21.964	41.338	0.00	0.00
ATOM	6606	CE2	TRP	X	438	56.117	22.732	42.874	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	56.374	24.078	43.159	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	57.125	24.557	42.549	0.00	0.00
ATOM	6609	CH2	TRP	X	438	55.636	24.754	44.096	0.00	0.00
ATOM	6610	HH2	TRP	X	438	55.853	25.805	44.214	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	54.704	24.060	44.857	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	54.158	24.547	45.651	0.00	0.00
ATOM	6613	CE3	TRP	X	438	54.540	22.680	44.713	0.00	0.00
ATOM	6614	HE3	TRP	X	438	53.845	22.247	45.417	0.00	0.00
ATOM	6615	CD2	TRP	X	438	55.183	21.971	43.670	0.00	0.00
ATOM	6616	C	TRP	X	438	52.203	20.546	44.007	0.00	0.00
ATOM	6617	O	TRP	X	438	51.925	20.671	45.197	0.00	0.00
ATOM	6618	N	MET	X	439	51.886	21.456	43.108	0.00	0.00
ATOM	6619	H	MET	X	439	52.208	21.328	42.160	0.00	0.00
ATOM	6620	CA	MET	X	439	51.016	22.660	43.416	0.00	0.00
ATOM	6621	HA	MET	X	439	51.335	23.225	44.292	0.00	0.00
ATOM	6622	CB	MET	X	439	51.055	23.625	42.220	0.00	0.00
ATOM	6623	HB2	MET	X	439	51.051	23.051	41.293	0.00	0.00
ATOM	6624	HB3	MET	X	439	50.231	24.335	42.288	0.00	0.00
ATOM	6625	CG	MET	X	439	52.319	24.444	42.235	0.00	0.00
ATOM	6626	HG2	MET	X	439	52.465	24.986	43.169	0.00	0.00
ATOM	6627	HG3	MET	X	439	53.107	23.696	42.144	0.00	0.00
ATOM	6628	SD	MET	X	439	52.546	25.714	41.014	0.00	0.00
ATOM	6629	CE	MET	X	439	54.145	26.514	41.418	0.00	0.00
ATOM	6630	HE1	MET	X	439	54.068	26.887	42.439	0.00	0.00

ATOM	6631	HE2	MET	X	439	54.969	25.805	41.487	0.00	0.00
ATOM	6632	HE3	MET	X	439	54.275	27.338	40.715	0.00	0.00
ATOM	6633	C	MET	X	439	49.606	22.383	43.718	0.00	0.00
ATOM	6634	O	MET	X	439	48.930	23.323	44.168	0.00	0.00
ATOM	6635	N	GLY	X	440	49.104	21.202	43.380	0.00	0.00
ATOM	6636	H	GLY	X	440	49.672	20.400	43.147	0.00	0.00
ATOM	6637	CA	GLY	X	440	47.705	20.777	43.743	0.00	0.00
ATOM	6638	HA2	GLY	X	440	47.680	19.688	43.707	0.00	0.00
ATOM	6639	HA3	GLY	X	440	47.419	21.001	44.771	0.00	0.00
ATOM	6640	C	GLY	X	440	46.743	21.480	42.760	0.00	0.00
ATOM	6641	O	GLY	X	440	46.859	21.256	41.598	0.00	0.00
ATOM	6642	N	VAL	X	441	45.790	22.264	43.250	0.00	0.00
ATOM	6643	H	VAL	X	441	45.686	22.195	44.253	0.00	0.00
ATOM	6644	CA	VAL	X	441	44.892	23.152	42.531	0.00	0.00
ATOM	6645	HA	VAL	X	441	44.878	22.842	41.486	0.00	0.00
ATOM	6646	CB	VAL	X	441	43.426	22.921	42.929	0.00	0.00
ATOM	6647	HB	VAL	X	441	43.237	23.263	43.947	0.00	0.00
ATOM	6648	CG1	VAL	X	441	42.444	23.784	42.041	0.00	0.00
ATOM	6649	HG11	VAL	X	441	41.423	23.551	42.344	0.00	0.00
ATOM	6650	HG12	VAL	X	441	42.528	24.852	42.244	0.00	0.00
ATOM	6651	HG13	VAL	X	441	42.538	23.634	40.965	0.00	0.00
ATOM	6652	CG2	VAL	X	441	43.080	21.453	42.851	0.00	0.00
ATOM	6653	HG21	VAL	X	441	42.000	21.354	42.966	0.00	0.00
ATOM	6654	HG22	VAL	X	441	43.665	20.843	43.539	0.00	0.00
ATOM	6655	HG23	VAL	X	441	43.315	21.253	41.806	0.00	0.00
ATOM	6656	C	VAL	X	441	45.386	24.514	43.013	0.00	0.00
ATOM	6657	O	VAL	X	441	44.919	24.966	44.042	0.00	0.00
ATOM	6658	N	PRO	X	442	46.277	25.178	42.177	0.00	0.00
ATOM	6659	CD	PRO	X	442	46.902	24.628	40.986	0.00	0.00
ATOM	6660	HD2	PRO	X	442	46.113	24.350	40.287	0.00	0.00
ATOM	6661	HD3	PRO	X	442	47.599	23.810	41.171	0.00	0.00
ATOM	6662	CG	PRO	X	442	47.726	25.767	40.363	0.00	0.00
ATOM	6663	HG2	PRO	X	442	47.118	26.410	39.727	0.00	0.00
ATOM	6664	HG3	PRO	X	442	48.646	25.395	39.913	0.00	0.00
ATOM	6665	CB	PRO	X	442	47.991	26.665	41.564	0.00	0.00
ATOM	6666	HB2	PRO	X	442	48.021	27.700	41.222	0.00	0.00
ATOM	6667	HB3	PRO	X	442	48.991	26.470	41.951	0.00	0.00
ATOM	6668	CA	PRO	X	442	46.797	26.489	42.502	0.00	0.00
ATOM	6669	HA	PRO	X	442	47.144	26.354	43.527	0.00	0.00
ATOM	6670	C	PRO	X	442	45.823	27.618	42.330	0.00	0.00
ATOM	6671	O	PRO	X	442	44.881	27.539	41.566	0.00	0.00
ATOM	6672	N	HIP	X	443	46.029	28.695	43.068	0.00	0.00
ATOM	6673	H	HIP	X	443	46.754	28.725	43.770	0.00	0.00
ATOM	6674	CA	HIP	X	443	45.194	29.882	43.160	0.00	0.00
ATOM	6675	HA	HIP	X	443	44.244	29.540	43.570	0.00	0.00
ATOM	6676	CB	HIP	X	443	46.029	30.837	44.097	0.00	0.00
ATOM	6677	HB2	HIP	X	443	46.022	30.418	45.104	0.00	0.00
ATOM	6678	HB3	HIP	X	443	47.092	30.911	43.869	0.00	0.00
ATOM	6679	CG	HIP	X	443	45.560	32.296	44.074	0.00	0.00
ATOM	6680	ND1	HIP	X	443	45.147	33.034	45.182	0.00	0.00
ATOM	6681	HD1	HIP	X	443	44.851	32.650	46.067	0.00	0.00
ATOM	6682	CE1	HIP	X	443	45.042	34.276	44.870	0.00	0.00
ATOM	6683	HE1	HIP	X	443	44.780	35.066	45.557	0.00	0.00
ATOM	6684	NE2	HIP	X	443	45.472	34.427	43.588	0.00	0.00
ATOM	6685	HE2	HIP	X	443	45.438	35.328	43.132	0.00	0.00
ATOM	6686	CD2	HIP	X	443	45.710	33.177	43.056	0.00	0.00
ATOM	6687	HD2	HIP	X	443	45.990	32.907	42.048	0.00	0.00
ATOM	6688	C	HIP	X	443	44.887	30.500	41.782	0.00	0.00
ATOM	6689	O	HIP	X	443	45.916	30.705	41.066	0.00	0.00
ATOM	6690	N	GLY	X	444	43.646	30.809	41.464	0.00	0.00
ATOM	6691	H	GLY	X	444	42.875	30.612	42.087	0.00	0.00
ATOM	6692	CA	GLY	X	444	43.269	31.376	40.155	0.00	0.00
ATOM	6693	HA2	GLY	X	444	42.435	32.066	40.285	0.00	0.00
ATOM	6694	HA3	GLY	X	444	44.007	32.067	39.748	0.00	0.00
ATOM	6695	C	GLY	X	444	42.890	30.401	39.087	0.00	0.00
ATOM	6696	O	GLY	X	444	42.421	30.868	38.042	0.00	0.00
ATOM	6697	N	TYR	X	445	43.014	29.081	39.211	0.00	0.00

ATOM	6698	H	TYR	X	445	43.362	28.743	40.096	0.00	0.00
ATOM	6699	CA	TYR	X	445	42.716	28.104	38.171	0.00	0.00
ATOM	6700	HA	TYR	X	445	42.722	28.596	37.199	0.00	0.00
ATOM	6701	CB	TYR	X	445	43.850	27.081	38.161	0.00	0.00
ATOM	6702	HB2	TYR	X	445	44.008	26.742	39.185	0.00	0.00
ATOM	6703	HB3	TYR	X	445	43.598	26.211	37.554	0.00	0.00
ATOM	6704	CG	TYR	X	445	45.056	27.684	37.512	0.00	0.00
ATOM	6705	CD1	TYR	X	445	45.203	27.588	36.125	0.00	0.00
ATOM	6706	HD1	TYR	X	445	44.440	27.098	35.538	0.00	0.00
ATOM	6707	CE1	TYR	X	445	46.289	28.146	35.435	0.00	0.00
ATOM	6708	HE1	TYR	X	445	46.420	28.090	34.365	0.00	0.00
ATOM	6709	CZ	TYR	X	445	47.274	28.884	36.180	0.00	0.00
ATOM	6710	OH	TYR	X	445	48.360	29.321	35.534	0.00	0.00
ATOM	6711	HH	TYR	X	445	48.043	29.393	34.631	0.00	0.00
ATOM	6712	CE2	TYR	X	445	47.156	28.914	37.542	0.00	0.00
ATOM	6713	HE2	TYR	X	445	47.835	29.521	38.121	0.00	0.00
ATOM	6714	CD2	TYR	X	445	46.059	28.367	38.226	0.00	0.00
ATOM	6715	HD2	TYR	X	445	45.839	28.551	39.267	0.00	0.00
ATOM	6716	C	TYR	X	445	41.287	27.552	38.332	0.00	0.00
ATOM	6717	O	TYR	X	445	40.963	26.465	37.797	0.00	0.00
ATOM	6718	N	GLU	X	446	40.408	28.181	39.187	0.00	0.00
ATOM	6719	H	GLU	X	446	40.717	29.018	39.661	0.00	0.00
ATOM	6720	CA	GLU	X	446	38.999	27.903	39.314	0.00	0.00
ATOM	6721	HA	GLU	X	446	38.770	26.864	39.079	0.00	0.00
ATOM	6722	CB	GLU	X	446	38.433	28.190	40.715	0.00	0.00
ATOM	6723	HB2	GLU	X	446	37.541	27.568	40.797	0.00	0.00
ATOM	6724	HB3	GLU	X	446	39.140	27.762	41.425	0.00	0.00
ATOM	6725	CG	GLU	X	446	38.018	29.631	41.078	0.00	0.00
ATOM	6726	HG2	GLU	X	446	37.183	29.837	40.408	0.00	0.00
ATOM	6727	HG3	GLU	X	446	37.747	29.646	42.134	0.00	0.00
ATOM	6728	CD	GLU	X	446	39.021	30.733	40.987	0.00	0.00
ATOM	6729	OE1	GLU	X	446	40.146	30.501	40.424	0.00	0.00
ATOM	6730	OE2	GLU	X	446	38.554	31.873	41.234	0.00	0.00
ATOM	6731	C	GLU	X	446	38.280	28.807	38.269	0.00	0.00
ATOM	6732	O	GLU	X	446	37.290	28.385	37.683	0.00	0.00
ATOM	6733	N	ILE	X	447	38.812	29.985	37.973	0.00	0.00
ATOM	6734	H	ILE	X	447	39.657	30.150	38.502	0.00	0.00
ATOM	6735	CA	ILE	X	447	38.223	31.018	37.208	0.00	0.00
ATOM	6736	HA	ILE	X	447	37.326	31.363	37.722	0.00	0.00
ATOM	6737	CB	ILE	X	447	39.145	32.222	36.817	0.00	0.00
ATOM	6738	HB	ILE	X	447	39.919	31.883	36.130	0.00	0.00
ATOM	6739	CG2	ILE	X	447	38.329	33.260	36.065	0.00	0.00
ATOM	6740	HG21	ILE	X	447	38.936	34.148	35.888	0.00	0.00
ATOM	6741	HG22	ILE	X	447	37.458	33.477	36.683	0.00	0.00
ATOM	6742	HG23	ILE	X	447	37.985	32.898	35.096	0.00	0.00
ATOM	6743	CG1	ILE	X	447	39.839	32.849	38.106	0.00	0.00
ATOM	6744	HG12	ILE	X	447	39.048	33.236	38.748	0.00	0.00
ATOM	6745	HG13	ILE	X	447	40.381	32.069	38.642	0.00	0.00
ATOM	6746	CD1	ILE	X	447	40.944	33.861	37.891	0.00	0.00
ATOM	6747	HD11	ILE	X	447	41.579	33.500	37.082	0.00	0.00
ATOM	6748	HD12	ILE	X	447	41.536	34.012	38.794	0.00	0.00
ATOM	6749	HD13	ILE	X	447	40.580	34.786	37.445	0.00	0.00
ATOM	6750	C	ILE	X	447	37.758	30.410	35.844	0.00	0.00
ATOM	6751	O	ILE	X	447	36.665	30.690	35.372	0.00	0.00
ATOM	6752	N	GLU	X	448	38.579	29.635	35.191	0.00	0.00
ATOM	6753	H	GLU	X	448	39.392	29.345	35.715	0.00	0.00
ATOM	6754	CA	GLU	X	448	38.286	29.017	33.866	0.00	0.00
ATOM	6755	HA	GLU	X	448	38.112	29.819	33.149	0.00	0.00
ATOM	6756	CB	GLU	X	448	39.482	28.211	33.380	0.00	0.00
ATOM	6757	HB2	GLU	X	448	39.210	27.809	32.405	0.00	0.00
ATOM	6758	HB3	GLU	X	448	40.297	28.924	33.254	0.00	0.00
ATOM	6759	CG	GLU	X	448	39.994	27.091	34.357	0.00	0.00
ATOM	6760	HG2	GLU	X	448	40.107	27.503	35.359	0.00	0.00
ATOM	6761	HG3	GLU	X	448	39.181	26.367	34.422	0.00	0.00
ATOM	6762	CD	GLU	X	448	41.358	26.471	33.996	0.00	0.00
ATOM	6763	OE1	GLU	X	448	41.416	25.256	33.762	0.00	0.00
ATOM	6764	OE2	GLU	X	448	42.324	27.250	33.856	0.00	0.00

ATOM	6765	C	GLU	X	448	36.994	28.212	33.854	0.00	0.00
ATOM	6766	O	GLU	X	448	36.231	28.225	32.847	0.00	0.00
ATOM	6767	N	PHE	X	449	36.565	27.558	34.950	0.00	0.00
ATOM	6768	H	PHE	X	449	37.027	27.705	35.835	0.00	0.00
ATOM	6769	CA	PHE	X	449	35.253	26.817	35.091	0.00	0.00
ATOM	6770	HA	PHE	X	449	35.009	26.368	34.128	0.00	0.00
ATOM	6771	CB	PHE	X	449	35.432	25.710	36.111	0.00	0.00
ATOM	6772	HB2	PHE	X	449	35.643	26.168	37.078	0.00	0.00
ATOM	6773	HB3	PHE	X	449	34.444	25.254	36.177	0.00	0.00
ATOM	6774	CG	PHE	X	449	36.494	24.733	35.787	0.00	0.00
ATOM	6775	CD1	PHE	X	449	37.817	25.000	36.275	0.00	0.00
ATOM	6776	HD1	PHE	X	449	38.103	25.890	36.815	0.00	0.00
ATOM	6777	CE1	PHE	X	449	38.804	24.025	36.042	0.00	0.00
ATOM	6778	HE1	PHE	X	449	39.833	24.261	36.268	0.00	0.00
ATOM	6779	CZ	PHE	X	449	38.503	22.809	35.401	0.00	0.00
ATOM	6780	HZ	PHE	X	449	39.296	22.112	35.173	0.00	0.00
ATOM	6781	CE2	PHE	X	449	37.165	22.528	34.995	0.00	0.00
ATOM	6782	HE2	PHE	X	449	36.881	21.592	34.536	0.00	0.00
ATOM	6783	CD2	PHE	X	449	36.151	23.528	35.184	0.00	0.00
ATOM	6784	HD2	PHE	X	449	35.129	23.275	34.940	0.00	0.00
ATOM	6785	C	PHE	X	449	34.137	27.746	35.516	0.00	0.00
ATOM	6786	O	PHE	X	449	33.016	27.473	35.189	0.00	0.00
ATOM	6787	N	ILE	X	450	34.432	28.862	36.161	0.00	0.00
ATOM	6788	H	ILE	X	450	35.370	29.073	36.470	0.00	0.00
ATOM	6789	CA	ILE	X	450	33.446	29.925	36.465	0.00	0.00
ATOM	6790	HA	ILE	X	450	32.526	29.489	36.856	0.00	0.00
ATOM	6791	CB	ILE	X	450	34.026	30.956	37.519	0.00	0.00
ATOM	6792	HB	ILE	X	450	34.933	31.371	37.080	0.00	0.00
ATOM	6793	CG2	ILE	X	450	32.978	31.951	37.847	0.00	0.00
ATOM	6794	HG21	ILE	X	450	32.049	31.529	38.228	0.00	0.00
ATOM	6795	HG22	ILE	X	450	32.643	32.509	36.972	0.00	0.00
ATOM	6796	HG23	ILE	X	450	33.397	32.728	38.487	0.00	0.00
ATOM	6797	CG1	ILE	X	450	34.531	30.228	38.837	0.00	0.00
ATOM	6798	HG12	ILE	X	450	35.502	29.777	38.637	0.00	0.00
ATOM	6799	HG13	ILE	X	450	34.732	30.968	39.611	0.00	0.00
ATOM	6800	CD1	ILE	X	450	33.591	29.195	39.428	0.00	0.00
ATOM	6801	HD11	ILE	X	450	32.577	29.537	39.634	0.00	0.00
ATOM	6802	HD12	ILE	X	450	34.039	28.951	40.391	0.00	0.00
ATOM	6803	HD13	ILE	X	450	33.409	28.305	38.824	0.00	0.00
ATOM	6804	C	ILE	X	450	33.040	30.653	35.184	0.00	0.00
ATOM	6805	O	ILE	X	450	31.840	30.853	34.980	0.00	0.00
ATOM	6806	N	PHE	X	451	33.938	31.032	34.225	0.00	0.00
ATOM	6807	H	PHE	X	451	34.923	31.040	34.449	0.00	0.00
ATOM	6808	CA	PHE	X	451	33.519	31.734	32.969	0.00	0.00
ATOM	6809	HA	PHE	X	451	32.741	32.435	33.270	0.00	0.00
ATOM	6810	CB	PHE	X	451	34.747	32.417	32.441	0.00	0.00
ATOM	6811	HB2	PHE	X	451	35.663	31.844	32.583	0.00	0.00
ATOM	6812	HB3	PHE	X	451	34.627	32.612	31.375	0.00	0.00
ATOM	6813	CG	PHE	X	451	34.859	33.827	33.042	0.00	0.00
ATOM	6814	CD1	PHE	X	451	35.320	34.093	34.359	0.00	0.00
ATOM	6815	HD1	PHE	X	451	35.796	33.351	34.984	0.00	0.00
ATOM	6816	CE1	PHE	X	451	35.378	35.384	34.901	0.00	0.00
ATOM	6817	HE1	PHE	X	451	35.738	35.533	35.908	0.00	0.00
ATOM	6818	CZ	PHE	X	451	34.956	36.503	34.126	0.00	0.00
ATOM	6819	HZ	PHE	X	451	35.070	37.496	34.534	0.00	0.00
ATOM	6820	CE2	PHE	X	451	34.520	36.315	32.812	0.00	0.00
ATOM	6821	HE2	PHE	X	451	34.171	37.140	32.208	0.00	0.00
ATOM	6822	CD2	PHE	X	451	34.433	34.983	32.332	0.00	0.00
ATOM	6823	HD2	PHE	X	451	33.959	34.777	31.384	0.00	0.00
ATOM	6824	C	PHE	X	451	32.940	30.752	31.931	0.00	0.00
ATOM	6825	O	PHE	X	451	32.256	31.291	31.004	0.00	0.00
ATOM	6826	N	GLY	X	452	33.228	29.482	32.066	0.00	0.00
ATOM	6827	H	GLY	X	452	33.906	29.170	32.746	0.00	0.00
ATOM	6828	CA	GLY	X	452	32.735	28.387	31.186	0.00	0.00
ATOM	6829	HA2	GLY	X	452	32.633	27.451	31.735	0.00	0.00
ATOM	6830	HA3	GLY	X	452	31.827	28.792	30.739	0.00	0.00
ATOM	6831	C	GLY	X	452	33.722	28.018	30.134	0.00	0.00

ATOM	6832	O	GLY	X	452	33.372	27.478	29.066	0.00	0.00
ATOM	6833	N	ILE	X	453	35.023	28.402	30.282	0.00	0.00
ATOM	6834	H	ILE	X	453	35.250	28.781	31.189	0.00	0.00
ATOM	6835	CA	ILE	X	453	36.079	28.109	29.268	0.00	0.00
ATOM	6836	HA	ILE	X	453	35.843	28.660	28.357	0.00	0.00
ATOM	6837	CB	ILE	X	453	37.421	28.776	29.700	0.00	0.00
ATOM	6838	HB	ILE	X	453	37.685	28.212	30.595	0.00	0.00
ATOM	6839	CG2	ILE	X	453	38.495	28.691	28.615	0.00	0.00
ATOM	6840	HG21	ILE	X	453	38.663	27.614	28.576	0.00	0.00
ATOM	6841	HG22	ILE	X	453	39.452	29.143	28.878	0.00	0.00
ATOM	6842	HG23	ILE	X	453	38.099	29.150	27.710	0.00	0.00
ATOM	6843	CG1	ILE	X	453	37.268	30.178	30.256	0.00	0.00
ATOM	6844	HG12	ILE	X	453	36.767	30.164	31.224	0.00	0.00
ATOM	6845	HG13	ILE	X	453	38.247	30.549	30.561	0.00	0.00
ATOM	6846	CD1	ILE	X	453	36.572	31.218	29.367	0.00	0.00
ATOM	6847	HD11	ILE	X	453	35.511	31.011	29.228	0.00	0.00
ATOM	6848	HD12	ILE	X	453	37.050	31.316	28.392	0.00	0.00
ATOM	6849	HD13	ILE	X	453	36.679	32.159	29.906	0.00	0.00
ATOM	6850	C	ILE	X	453	36.200	26.657	28.781	0.00	0.00
ATOM	6851	O	ILE	X	453	36.334	26.513	27.577	0.00	0.00
ATOM	6852	N	PRO	X	454	36.153	25.638	29.630	0.00	0.00
ATOM	6853	CD	PRO	X	454	36.018	25.642	31.077	0.00	0.00
ATOM	6854	HD2	PRO	X	454	35.022	25.971	31.373	0.00	0.00
ATOM	6855	HD3	PRO	X	454	36.778	26.347	31.414	0.00	0.00
ATOM	6856	CG	PRO	X	454	36.255	24.268	31.568	0.00	0.00
ATOM	6857	HG2	PRO	X	454	35.790	24.112	32.542	0.00	0.00
ATOM	6858	HG3	PRO	X	454	37.317	24.026	31.537	0.00	0.00
ATOM	6859	CB	PRO	X	454	35.526	23.488	30.439	0.00	0.00
ATOM	6860	HB2	PRO	X	454	34.454	23.464	30.632	0.00	0.00
ATOM	6861	HB3	PRO	X	454	35.754	22.422	30.462	0.00	0.00
ATOM	6862	CA	PRO	X	454	35.994	24.276	29.186	0.00	0.00
ATOM	6863	HA	PRO	X	454	36.981	23.961	28.847	0.00	0.00
ATOM	6864	C	PRO	X	454	34.985	23.972	28.065	0.00	0.00
ATOM	6865	O	PRO	X	454	35.067	22.861	27.553	0.00	0.00
ATOM	6866	N	LEU	X	455	34.007	24.873	27.790	0.00	0.00
ATOM	6867	H	LEU	X	455	33.989	25.748	28.294	0.00	0.00
ATOM	6868	CA	LEU	X	455	33.055	24.680	26.629	0.00	0.00
ATOM	6869	HA	LEU	X	455	32.885	23.619	26.446	0.00	0.00
ATOM	6870	CB	LEU	X	455	31.750	25.423	27.008	0.00	0.00
ATOM	6871	HB2	LEU	X	455	32.134	26.431	27.163	0.00	0.00
ATOM	6872	HB3	LEU	X	455	31.080	25.420	26.148	0.00	0.00
ATOM	6873	CG	LEU	X	455	31.044	24.847	28.239	0.00	0.00
ATOM	6874	HG	LEU	X	455	31.666	24.887	29.134	0.00	0.00
ATOM	6875	CD1	LEU	X	455	29.846	25.790	28.629	0.00	0.00
ATOM	6876	HD11	LEU	X	455	29.138	25.793	27.800	0.00	0.00
ATOM	6877	HD12	LEU	X	455	30.329	26.748	28.824	0.00	0.00
ATOM	6878	HD13	LEU	X	455	29.347	25.252	29.435	0.00	0.00
ATOM	6879	CD2	LEU	X	455	30.589	23.373	28.099	0.00	0.00
ATOM	6880	HD21	LEU	X	455	30.097	22.986	28.991	0.00	0.00
ATOM	6881	HD22	LEU	X	455	29.932	23.323	27.230	0.00	0.00
ATOM	6882	HD23	LEU	X	455	31.469	22.784	27.842	0.00	0.00
ATOM	6883	C	LEU	X	455	33.620	25.056	25.254	0.00	0.00
ATOM	6884	O	LEU	X	455	32.881	24.875	24.292	0.00	0.00
ATOM	6885	N	ASP	X	456	34.753	25.670	25.134	0.00	0.00
ATOM	6886	H	ASP	X	456	35.191	26.031	25.970	0.00	0.00
ATOM	6887	CA	ASP	X	456	35.412	25.943	23.834	0.00	0.00
ATOM	6888	HA	ASP	X	456	34.591	26.254	23.188	0.00	0.00
ATOM	6889	CB	ASP	X	456	36.491	26.998	23.958	0.00	0.00
ATOM	6890	HB2	ASP	X	456	36.041	27.898	24.375	0.00	0.00
ATOM	6891	HB3	ASP	X	456	37.162	26.721	24.772	0.00	0.00
ATOM	6892	CG	ASP	X	456	37.334	27.340	22.749	0.00	0.00
ATOM	6893	OD1	ASP	X	456	37.293	26.558	21.771	0.00	0.00
ATOM	6894	OD2	ASP	X	456	37.960	28.425	22.799	0.00	0.00
ATOM	6895	C	ASP	X	456	35.934	24.638	23.193	0.00	0.00
ATOM	6896	O	ASP	X	456	36.759	24.013	23.915	0.00	0.00
ATOM	6897	N	PRO	X	457	35.514	24.163	22.022	0.00	0.00
ATOM	6898	CD	PRO	X	457	34.488	24.733	21.197	0.00	0.00

ATOM	6899	HD2	PRO	X	457	34.887	25.435	20.464	0.00	0.00
ATOM	6900	HD3	PRO	X	457	33.688	25.208	21.765	0.00	0.00
ATOM	6901	CG	PRO	X	457	33.895	23.622	20.351	0.00	0.00
ATOM	6902	HG2	PRO	X	457	33.429	23.999	19.441	0.00	0.00
ATOM	6903	HG3	PRO	X	457	33.213	22.944	20.865	0.00	0.00
ATOM	6904	CB	PRO	X	457	35.112	22.800	20.153	0.00	0.00
ATOM	6905	HB2	PRO	X	457	35.736	23.202	19.354	0.00	0.00
ATOM	6906	HB3	PRO	X	457	34.856	21.789	19.837	0.00	0.00
ATOM	6907	CA	PRO	X	457	35.961	22.903	21.450	0.00	0.00
ATOM	6908	HA	PRO	X	457	35.821	22.090	22.162	0.00	0.00
ATOM	6909	C	PRO	X	457	37.405	22.809	21.078	0.00	0.00
ATOM	6910	O	PRO	X	457	37.818	21.704	20.831	0.00	0.00
ATOM	6911	N	SER	X	458	38.165	23.922	21.061	0.00	0.00
ATOM	6912	H	SER	X	458	37.834	24.853	21.269	0.00	0.00
ATOM	6913	CA	SER	X	458	39.628	23.865	20.826	0.00	0.00
ATOM	6914	HA	SER	X	458	39.802	23.192	19.987	0.00	0.00
ATOM	6915	CB	SER	X	458	40.135	25.246	20.398	0.00	0.00
ATOM	6916	HB2	SER	X	458	41.174	25.077	20.114	0.00	0.00
ATOM	6917	HB3	SER	X	458	39.543	25.577	19.544	0.00	0.00
ATOM	6918	OG	SER	X	458	39.955	26.334	21.366	0.00	0.00
ATOM	6919	HG	SER	X	458	39.035	26.567	21.510	0.00	0.00
ATOM	6920	C	SER	X	458	40.453	23.433	22.115	0.00	0.00
ATOM	6921	O	SER	X	458	41.663	23.175	22.055	0.00	0.00
ATOM	6922	N	ARG	X	459	39.768	23.441	23.289	0.00	0.00
ATOM	6923	H	ARG	X	459	38.781	23.646	23.235	0.00	0.00
ATOM	6924	CA	ARG	X	459	40.440	23.274	24.582	0.00	0.00
ATOM	6925	HA	ARG	X	459	41.523	23.381	24.524	0.00	0.00
ATOM	6926	CB	ARG	X	459	39.943	24.210	25.664	0.00	0.00
ATOM	6927	HB2	ARG	X	459	38.960	23.856	25.976	0.00	0.00
ATOM	6928	HB3	ARG	X	459	40.493	24.145	26.602	0.00	0.00
ATOM	6929	CG	ARG	X	459	39.718	25.664	25.164	0.00	0.00
ATOM	6930	HG2	ARG	X	459	38.974	25.643	24.368	0.00	0.00
ATOM	6931	HG3	ARG	X	459	39.371	26.226	26.031	0.00	0.00
ATOM	6932	CD	ARG	X	459	40.934	26.454	24.650	0.00	0.00
ATOM	6933	HD2	ARG	X	459	41.611	26.554	25.500	0.00	0.00
ATOM	6934	HD3	ARG	X	459	41.502	25.846	23.946	0.00	0.00
ATOM	6935	NE	ARG	X	459	40.469	27.746	24.155	0.00	0.00
ATOM	6936	HE	ARG	X	459	39.642	27.706	23.576	0.00	0.00
ATOM	6937	CZ	ARG	X	459	40.913	28.996	24.364	0.00	0.00
ATOM	6938	NH1	ARG	X	459	42.009	29.212	25.085	0.00	0.00
ATOM	6939	HH11	ARG	X	459	42.562	28.514	25.562	0.00	0.00
ATOM	6940	HH12	ARG	X	459	42.217	30.191	25.224	0.00	0.00
ATOM	6941	NH2	ARG	X	459	40.274	29.965	23.844	0.00	0.00
ATOM	6942	HH21	ARG	X	459	39.459	29.802	23.271	0.00	0.00
ATOM	6943	HH22	ARG	X	459	40.663	30.895	23.911	0.00	0.00
ATOM	6944	C	ARG	X	459	40.136	21.862	25.055	0.00	0.00
ATOM	6945	O	ARG	X	459	39.008	21.372	24.967	0.00	0.00
ATOM	6946	N	ASN	X	460	41.179	21.066	25.477	0.00	0.00
ATOM	6947	H	ASN	X	460	42.094	21.490	25.539	0.00	0.00
ATOM	6948	CA	ASN	X	460	41.186	19.649	25.784	0.00	0.00
ATOM	6949	HA	ASN	X	460	40.846	19.080	24.920	0.00	0.00
ATOM	6950	CB	ASN	X	460	42.678	19.322	25.947	0.00	0.00
ATOM	6951	HB2	ASN	X	460	43.036	19.877	26.814	0.00	0.00
ATOM	6952	HB3	ASN	X	460	42.762	18.272	26.226	0.00	0.00
ATOM	6953	CG	ASN	X	460	43.549	19.561	24.652	0.00	0.00
ATOM	6954	OD1	ASN	X	460	44.023	20.630	24.374	0.00	0.00
ATOM	6955	ND2	ASN	X	460	43.607	18.562	23.797	0.00	0.00
ATOM	6956	HD21	ASN	X	460	44.198	18.621	22.981	0.00	0.00
ATOM	6957	HD22	ASN	X	460	43.131	17.720	24.088	0.00	0.00
ATOM	6958	C	ASN	X	460	40.325	19.117	26.959	0.00	0.00
ATOM	6959	O	ASN	X	460	40.390	17.908	27.294	0.00	0.00
ATOM	6960	N	TYR	X	461	39.543	19.972	27.597	0.00	0.00
ATOM	6961	H	TYR	X	461	39.547	20.939	27.309	0.00	0.00
ATOM	6962	CA	TYR	X	461	38.807	19.631	28.834	0.00	0.00
ATOM	6963	HA	TYR	X	461	39.464	19.256	29.619	0.00	0.00
ATOM	6964	CB	TYR	X	461	38.054	20.806	29.389	0.00	0.00
ATOM	6965	HB2	TYR	X	461	37.277	21.071	28.672	0.00	0.00

ATOM	6966	HB3	TYR	X	461	37.573	20.506	30.321	0.00	0.00
ATOM	6967	CG	TYR	X	461	38.908	22.021	29.883	0.00	0.00
ATOM	6968	CD1	TYR	X	461	39.182	23.086	29.007	0.00	0.00
ATOM	6969	HD1	TYR	X	461	38.678	23.064	28.052	0.00	0.00
ATOM	6970	CE1	TYR	X	461	40.050	24.163	29.369	0.00	0.00
ATOM	6971	HE1	TYR	X	461	40.244	25.003	28.718	0.00	0.00
ATOM	6972	CZ	TYR	X	461	40.477	24.181	30.686	0.00	0.00
ATOM	6973	OH	TYR	X	461	41.192	25.236	31.187	0.00	0.00
ATOM	6974	HH	TYR	X	461	41.362	25.184	32.131	0.00	0.00
ATOM	6975	CE2	TYR	X	461	40.125	23.202	31.630	0.00	0.00
ATOM	6976	HE2	TYR	X	461	40.393	23.275	32.674	0.00	0.00
ATOM	6977	CD2	TYR	X	461	39.353	22.083	31.227	0.00	0.00
ATOM	6978	HD2	TYR	X	461	39.140	21.331	31.973	0.00	0.00
ATOM	6979	C	TYR	X	461	37.857	18.452	28.508	0.00	0.00
ATOM	6980	O	TYR	X	461	37.140	18.450	27.497	0.00	0.00
ATOM	6981	N	THR	X	462	37.839	17.460	29.400	0.00	0.00
ATOM	6982	H	THR	X	462	38.291	17.582	30.295	0.00	0.00
ATOM	6983	CA	THR	X	462	36.984	16.253	29.307	0.00	0.00
ATOM	6984	HA	THR	X	462	37.144	15.734	28.362	0.00	0.00
ATOM	6985	CB	THR	X	462	37.464	15.171	30.290	0.00	0.00
ATOM	6986	HB	THR	X	462	36.802	14.311	30.188	0.00	0.00
ATOM	6987	CG2	THR	X	462	38.926	14.763	30.167	0.00	0.00
ATOM	6988	HG21	THR	X	462	39.044	14.624	29.093	0.00	0.00
ATOM	6989	HG22	THR	X	462	39.210	13.895	30.763	0.00	0.00
ATOM	6990	HG23	THR	X	462	39.570	15.619	30.367	0.00	0.00
ATOM	6991	OG1	THR	X	462	37.493	15.641	31.616	0.00	0.00
ATOM	6992	HG1	THR	X	462	37.512	14.905	32.231	0.00	0.00
ATOM	6993	C	THR	X	462	35.466	16.553	29.455	0.00	0.00
ATOM	6994	O	THR	X	462	34.999	17.655	29.760	0.00	0.00
ATOM	6995	N	ALA	X	463	34.584	15.487	29.313	0.00	0.00
ATOM	6996	H	ALA	X	463	34.951	14.626	28.935	0.00	0.00
ATOM	6997	CA	ALA	X	463	33.130	15.705	29.387	0.00	0.00
ATOM	6998	HA	ALA	X	463	32.798	16.583	28.833	0.00	0.00
ATOM	6999	CB	ALA	X	463	32.398	14.468	28.875	0.00	0.00
ATOM	7000	HB1	ALA	X	463	32.765	13.676	29.527	0.00	0.00
ATOM	7001	HB2	ALA	X	463	32.505	14.215	27.820	0.00	0.00
ATOM	7002	HB3	ALA	X	463	31.321	14.573	29.006	0.00	0.00
ATOM	7003	C	ALA	X	463	32.732	16.066	30.860	0.00	0.00
ATOM	7004	O	ALA	X	463	31.888	16.944	31.090	0.00	0.00
ATOM	7005	N	GLU	X	464	33.375	15.430	31.915	0.00	0.00
ATOM	7006	H	GLU	X	464	34.015	14.653	31.838	0.00	0.00
ATOM	7007	CA	GLU	X	464	33.039	15.793	33.290	0.00	0.00
ATOM	7008	HA	GLU	X	464	31.985	15.603	33.491	0.00	0.00
ATOM	7009	CB	GLU	X	464	33.776	14.747	34.199	0.00	0.00
ATOM	7010	HB2	GLU	X	464	33.294	14.978	35.149	0.00	0.00
ATOM	7011	HB3	GLU	X	464	33.471	13.807	33.739	0.00	0.00
ATOM	7012	CG	GLU	X	464	35.328	14.920	34.260	0.00	0.00
ATOM	7013	HG2	GLU	X	464	35.673	15.541	33.434	0.00	0.00
ATOM	7014	HG3	GLU	X	464	35.596	15.457	35.171	0.00	0.00
ATOM	7015	CD	GLU	X	464	36.134	13.608	34.164	0.00	0.00
ATOM	7016	OE1	GLU	X	464	35.908	12.654	34.984	0.00	0.00
ATOM	7017	OE2	GLU	X	464	36.909	13.437	33.163	0.00	0.00
ATOM	7018	C	GLU	X	464	33.416	17.237	33.693	0.00	0.00
ATOM	7019	O	GLU	X	464	32.635	17.818	34.459	0.00	0.00
ATOM	7020	N	GLU	X	465	34.416	17.826	33.050	0.00	0.00
ATOM	7021	H	GLU	X	465	35.003	17.360	32.373	0.00	0.00
ATOM	7022	CA	GLU	X	465	34.883	19.190	33.206	0.00	0.00
ATOM	7023	HA	GLU	X	465	34.966	19.467	34.257	0.00	0.00
ATOM	7024	CB	GLU	X	465	36.276	19.239	32.604	0.00	0.00
ATOM	7025	HB2	GLU	X	465	36.317	18.770	31.621	0.00	0.00
ATOM	7026	HB3	GLU	X	465	36.566	20.290	32.602	0.00	0.00
ATOM	7027	CG	GLU	X	465	37.330	18.527	33.532	0.00	0.00
ATOM	7028	HG2	GLU	X	465	37.269	18.840	34.575	0.00	0.00
ATOM	7029	HG3	GLU	X	465	37.147	17.453	33.553	0.00	0.00
ATOM	7030	CD	GLU	X	465	38.784	18.774	33.162	0.00	0.00
ATOM	7031	OE1	GLU	X	465	39.099	18.669	31.944	0.00	0.00
ATOM	7032	OE2	GLU	X	465	39.636	18.940	34.111	0.00	0.00

ATOM	7033	C	GLU	X	465	33.899	20.132	32.441	0.00	0.00
ATOM	7034	O	GLU	X	465	33.568	21.173	32.993	0.00	0.00
ATOM	7035	N	LYS	X	466	33.400	19.752	31.277	0.00	0.00
ATOM	7036	H	LYS	X	466	33.699	18.889	30.845	0.00	0.00
ATOM	7037	CA	LYS	X	466	32.325	20.536	30.589	0.00	0.00
ATOM	7038	HA	LYS	X	466	32.609	21.584	30.496	0.00	0.00
ATOM	7039	CB	LYS	X	466	32.176	19.935	29.175	0.00	0.00
ATOM	7040	HB2	LYS	X	466	32.263	18.850	29.227	0.00	0.00
ATOM	7041	HB3	LYS	X	466	31.167	20.140	28.814	0.00	0.00
ATOM	7042	CG	LYS	X	466	33.290	20.448	28.223	0.00	0.00
ATOM	7043	HG2	LYS	X	466	33.095	21.475	27.914	0.00	0.00
ATOM	7044	HG3	LYS	X	466	34.301	20.398	28.626	0.00	0.00
ATOM	7045	CD	LYS	X	466	33.354	19.589	26.949	0.00	0.00
ATOM	7046	HD2	LYS	X	466	33.825	18.634	27.181	0.00	0.00
ATOM	7047	HD3	LYS	X	466	32.362	19.427	26.528	0.00	0.00
ATOM	7048	CE	LYS	X	466	34.232	20.204	25.821	0.00	0.00
ATOM	7049	HE2	LYS	X	466	34.139	19.577	24.934	0.00	0.00
ATOM	7050	HE3	LYS	X	466	33.757	21.154	25.578	0.00	0.00
ATOM	7051	NZ	LYS	X	466	35.663	20.318	26.099	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	36.116	19.460	26.381	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	36.141	20.797	25.349	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	35.821	20.968	26.855	0.00	0.00
ATOM	7055	C	LYS	X	466	31.000	20.538	31.393	0.00	0.00
ATOM	7056	O	LYS	X	466	30.408	21.671	31.500	0.00	0.00
ATOM	7057	N	ILE	X	467	30.618	19.394	32.014	0.00	0.00
ATOM	7058	H	ILE	X	467	31.245	18.631	31.801	0.00	0.00
ATOM	7059	CA	ILE	X	467	29.510	19.353	32.975	0.00	0.00
ATOM	7060	HA	ILE	X	467	28.673	19.876	32.514	0.00	0.00
ATOM	7061	CB	ILE	X	467	29.201	17.884	33.302	0.00	0.00
ATOM	7062	HB	ILE	X	467	30.115	17.341	33.538	0.00	0.00
ATOM	7063	CG2	ILE	X	467	28.154	17.781	34.406	0.00	0.00
ATOM	7064	HG21	ILE	X	467	27.206	18.257	34.155	0.00	0.00
ATOM	7065	HG22	ILE	X	467	28.573	18.109	35.357	0.00	0.00
ATOM	7066	HG23	ILE	X	467	27.976	16.730	34.637	0.00	0.00
ATOM	7067	CG1	ILE	X	467	28.587	17.242	31.963	0.00	0.00
ATOM	7068	HG12	ILE	X	467	27.570	17.604	31.811	0.00	0.00
ATOM	7069	HG13	ILE	X	467	29.265	17.460	31.138	0.00	0.00
ATOM	7070	CD1	ILE	X	467	28.578	15.715	32.051	0.00	0.00
ATOM	7071	HD11	ILE	X	467	29.548	15.344	32.383	0.00	0.00
ATOM	7072	HD12	ILE	X	467	28.337	15.239	31.101	0.00	0.00
ATOM	7073	HD13	ILE	X	467	27.789	15.440	32.751	0.00	0.00
ATOM	7074	C	ILE	X	467	29.753	20.164	34.206	0.00	0.00
ATOM	7075	O	ILE	X	467	28.833	20.815	34.760	0.00	0.00
ATOM	7076	N	PHE	X	468	30.982	20.016	34.776	0.00	0.00
ATOM	7077	H	PHE	X	468	31.654	19.511	34.216	0.00	0.00
ATOM	7078	CA	PHE	X	468	31.387	20.773	35.984	0.00	0.00
ATOM	7079	HA	PHE	X	468	30.637	20.578	36.751	0.00	0.00
ATOM	7080	CB	PHE	X	468	32.756	20.277	36.443	0.00	0.00
ATOM	7081	HB2	PHE	X	468	32.727	19.196	36.578	0.00	0.00
ATOM	7082	HB3	PHE	X	468	33.417	20.558	35.623	0.00	0.00
ATOM	7083	CG	PHE	X	468	33.363	20.842	37.702	0.00	0.00
ATOM	7084	CD1	PHE	X	468	32.660	20.881	38.920	0.00	0.00
ATOM	7085	HD1	PHE	X	468	31.660	20.474	38.957	0.00	0.00
ATOM	7086	CE1	PHE	X	468	33.299	21.314	40.150	0.00	0.00
ATOM	7087	HE1	PHE	X	468	32.714	21.432	41.051	0.00	0.00
ATOM	7088	CZ	PHE	X	468	34.607	21.768	40.074	0.00	0.00
ATOM	7089	HZ	PHE	X	468	35.043	22.228	40.949	0.00	0.00
ATOM	7090	CE2	PHE	X	468	35.329	21.751	38.868	0.00	0.00
ATOM	7091	HE2	PHE	X	468	36.343	22.111	38.779	0.00	0.00
ATOM	7092	CD2	PHE	X	468	34.682	21.391	37.690	0.00	0.00
ATOM	7093	HD2	PHE	X	468	35.253	21.257	36.783	0.00	0.00
ATOM	7094	C	PHE	X	468	31.365	22.292	35.768	0.00	0.00
ATOM	7095	O	PHE	X	468	30.772	22.962	36.656	0.00	0.00
ATOM	7096	N	ALA	X	469	31.799	22.843	34.666	0.00	0.00
ATOM	7097	H	ALA	X	469	32.379	22.238	34.101	0.00	0.00
ATOM	7098	CA	ALA	X	469	31.681	24.249	34.295	0.00	0.00
ATOM	7099	HA	ALA	X	469	32.165	24.839	35.074	0.00	0.00

ATOM	7100	CB	ALA	X	469	32.527	24.432	32.990	0.00	0.00
ATOM	7101	HB1	ALA	X	469	33.580	24.231	33.188	0.00	0.00
ATOM	7102	HB2	ALA	X	469	32.418	25.471	32.679	0.00	0.00
ATOM	7103	HB3	ALA	X	469	32.130	23.821	32.180	0.00	0.00
ATOM	7104	C	ALA	X	469	30.228	24.703	34.086	0.00	0.00
ATOM	7105	O	ALA	X	469	29.913	25.771	34.565	0.00	0.00
ATOM	7106	N	GLN	X	470	29.382	23.836	33.517	0.00	0.00
ATOM	7107	H	GLN	X	470	29.732	22.970	33.132	0.00	0.00
ATOM	7108	CA	GLN	X	470	27.932	24.077	33.417	0.00	0.00
ATOM	7109	HA	GLN	X	470	27.734	25.023	32.914	0.00	0.00
ATOM	7110	CB	GLN	X	470	27.304	23.042	32.518	0.00	0.00
ATOM	7111	HB2	GLN	X	470	27.698	22.074	32.826	0.00	0.00
ATOM	7112	HB3	GLN	X	470	26.223	23.063	32.659	0.00	0.00
ATOM	7113	CG	GLN	X	470	27.628	23.253	31.058	0.00	0.00
ATOM	7114	HG2	GLN	X	470	27.148	24.100	30.567	0.00	0.00
ATOM	7115	HG3	GLN	X	470	28.709	23.373	31.000	0.00	0.00
ATOM	7116	CD	GLN	X	470	27.220	22.064	30.157	0.00	0.00
ATOM	7117	OE1	GLN	X	470	28.019	21.425	29.499	0.00	0.00
ATOM	7118	NE2	GLN	X	470	25.884	21.800	29.982	0.00	0.00
ATOM	7119	HE21	GLN	X	470	25.626	21.132	29.269	0.00	0.00
ATOM	7120	HE22	GLN	X	470	25.172	22.294	30.499	0.00	0.00
ATOM	7121	C	GLN	X	470	27.248	24.241	34.764	0.00	0.00
ATOM	7122	O	GLN	X	470	26.471	25.155	34.961	0.00	0.00
ATOM	7123	N	ARG	X	471	27.587	23.325	35.702	0.00	0.00
ATOM	7124	H	ARG	X	471	28.232	22.600	35.423	0.00	0.00
ATOM	7125	CA	ARG	X	471	27.243	23.354	37.107	0.00	0.00
ATOM	7126	HA	ARG	X	471	26.155	23.353	37.167	0.00	0.00
ATOM	7127	CB	ARG	X	471	27.684	22.094	37.710	0.00	0.00
ATOM	7128	HB2	ARG	X	471	27.140	21.277	37.235	0.00	0.00
ATOM	7129	HB3	ARG	X	471	28.735	21.891	37.502	0.00	0.00
ATOM	7130	CG	ARG	X	471	27.654	22.001	39.175	0.00	0.00
ATOM	7131	HG2	ARG	X	471	28.378	22.704	39.586	0.00	0.00
ATOM	7132	HG3	ARG	X	471	26.688	22.307	39.577	0.00	0.00
ATOM	7133	CD	ARG	X	471	28.061	20.646	39.683	0.00	0.00
ATOM	7134	HD2	ARG	X	471	27.284	19.917	39.452	0.00	0.00
ATOM	7135	HD3	ARG	X	471	28.948	20.383	39.106	0.00	0.00
ATOM	7136	NE	ARG	X	471	28.383	20.580	41.128	0.00	0.00
ATOM	7137	HE	ARG	X	471	28.046	21.347	41.691	0.00	0.00
ATOM	7138	CZ	ARG	X	471	29.200	19.675	41.731	0.00	0.00
ATOM	7139	NH1	ARG	X	471	29.647	18.663	41.075	0.00	0.00
ATOM	7140	HH11	ARG	X	471	29.472	18.537	40.089	0.00	0.00
ATOM	7141	HH12	ARG	X	471	30.417	18.085	41.381	0.00	0.00
ATOM	7142	NH2	ARG	X	471	29.598	19.769	42.966	0.00	0.00
ATOM	7143	HH21	ARG	X	471	29.442	20.589	43.534	0.00	0.00
ATOM	7144	HH22	ARG	X	471	30.218	19.057	43.326	0.00	0.00
ATOM	7145	C	ARG	X	471	27.693	24.650	37.795	0.00	0.00
ATOM	7146	O	ARG	X	471	26.980	25.247	38.536	0.00	0.00
ATOM	7147	N	LEU	X	472	28.922	25.115	37.597	0.00	0.00
ATOM	7148	H	LEU	X	472	29.444	24.623	36.887	0.00	0.00
ATOM	7149	CA	LEU	X	472	29.530	26.282	38.301	0.00	0.00
ATOM	7150	HA	LEU	X	472	29.280	26.288	39.362	0.00	0.00
ATOM	7151	CB	LEU	X	472	31.111	26.232	38.208	0.00	0.00
ATOM	7152	HB2	LEU	X	472	31.349	26.091	37.154	0.00	0.00
ATOM	7153	HB3	LEU	X	472	31.520	27.223	38.407	0.00	0.00
ATOM	7154	CG	LEU	X	472	31.739	25.116	39.084	0.00	0.00
ATOM	7155	HG	LEU	X	472	31.065	24.263	39.010	0.00	0.00
ATOM	7156	CD1	LEU	X	472	33.145	24.688	38.504	0.00	0.00
ATOM	7157	HD11	LEU	X	472	33.738	25.600	38.435	0.00	0.00
ATOM	7158	HD12	LEU	X	472	33.099	24.228	37.517	0.00	0.00
ATOM	7159	HD13	LEU	X	472	33.698	24.043	39.186	0.00	0.00
ATOM	7160	CD2	LEU	X	472	31.818	25.508	40.571	0.00	0.00
ATOM	7161	HD21	LEU	X	472	32.384	26.421	40.754	0.00	0.00
ATOM	7162	HD22	LEU	X	472	30.797	25.746	40.869	0.00	0.00
ATOM	7163	HD23	LEU	X	472	32.302	24.748	41.185	0.00	0.00
ATOM	7164	C	LEU	X	472	29.025	27.621	37.749	0.00	0.00
ATOM	7165	O	LEU	X	472	28.690	28.429	38.598	0.00	0.00
ATOM	7166	N	MET	X	473	28.879	27.877	36.418	0.00	0.00

ATOM	7167	H	MET	X	473	29.417	27.317	35.771	0.00	0.00
ATOM	7168	CA	MET	X	473	28.169	29.013	35.920	0.00	0.00
ATOM	7169	HA	MET	X	473	28.725	29.928	36.124	0.00	0.00
ATOM	7170	CB	MET	X	473	28.086	28.826	34.408	0.00	0.00
ATOM	7171	HB2	MET	X	473	27.747	27.864	34.025	0.00	0.00
ATOM	7172	HB3	MET	X	473	27.453	29.654	34.088	0.00	0.00
ATOM	7173	CG	MET	X	473	29.420	28.973	33.611	0.00	0.00
ATOM	7174	HG2	MET	X	473	29.918	29.854	34.014	0.00	0.00
ATOM	7175	HG3	MET	X	473	30.133	28.204	33.906	0.00	0.00
ATOM	7176	SD	MET	X	473	29.290	28.909	31.839	0.00	0.00
ATOM	7177	CE	MET	X	473	28.509	27.266	31.483	0.00	0.00
ATOM	7178	HE1	MET	X	473	28.300	27.149	30.419	0.00	0.00
ATOM	7179	HE2	MET	X	473	29.270	26.543	31.776	0.00	0.00
ATOM	7180	HE3	MET	X	473	27.557	27.163	32.004	0.00	0.00
ATOM	7181	C	MET	X	473	26.758	29.133	36.530	0.00	0.00
ATOM	7182	O	MET	X	473	26.253	30.218	36.822	0.00	0.00
ATOM	7183	N	ARG	X	474	26.103	27.962	36.741	0.00	0.00
ATOM	7184	H	ARG	X	474	26.455	27.095	36.360	0.00	0.00
ATOM	7185	CA	ARG	X	474	24.755	27.946	37.305	0.00	0.00
ATOM	7186	HA	ARG	X	474	24.131	28.559	36.654	0.00	0.00
ATOM	7187	CB	ARG	X	474	24.172	26.553	37.217	0.00	0.00
ATOM	7188	HB2	ARG	X	474	24.459	26.064	36.286	0.00	0.00
ATOM	7189	HB3	ARG	X	474	24.645	25.980	38.015	0.00	0.00
ATOM	7190	CG	ARG	X	474	22.708	26.455	37.453	0.00	0.00
ATOM	7191	HG2	ARG	X	474	22.516	25.386	37.359	0.00	0.00
ATOM	7192	HG3	ARG	X	474	22.366	26.738	38.448	0.00	0.00
ATOM	7193	CD	ARG	X	474	21.859	27.140	36.349	0.00	0.00
ATOM	7194	HD2	ARG	X	474	22.052	28.209	36.448	0.00	0.00
ATOM	7195	HD3	ARG	X	474	22.318	26.799	35.422	0.00	0.00
ATOM	7196	NE	ARG	X	474	20.424	26.915	36.451	0.00	0.00
ATOM	7197	HE	ARG	X	474	20.044	26.586	37.327	0.00	0.00
ATOM	7198	CZ	ARG	X	474	19.483	27.060	35.521	0.00	0.00
ATOM	7199	NH1	ARG	X	474	19.848	27.497	34.387	0.00	0.00
ATOM	7200	HH11	ARG	X	474	20.815	27.785	34.342	0.00	0.00
ATOM	7201	HH12	ARG	X	474	19.150	27.601	33.664	0.00	0.00
ATOM	7202	NH2	ARG	X	474	18.223	26.737	35.823	0.00	0.00
ATOM	7203	HH21	ARG	X	474	18.022	26.271	36.696	0.00	0.00
ATOM	7204	HH22	ARG	X	474	17.462	27.034	35.229	0.00	0.00
ATOM	7205	C	ARG	X	474	24.659	28.490	38.743	0.00	0.00
ATOM	7206	O	ARG	X	474	23.737	29.284	38.972	0.00	0.00
ATOM	7207	N	TYR	X	475	25.633	28.191	39.600	0.00	0.00
ATOM	7208	H	TYR	X	475	26.320	27.472	39.417	0.00	0.00
ATOM	7209	CA	TYR	X	475	25.666	28.722	40.995	0.00	0.00
ATOM	7210	HA	TYR	X	475	24.646	28.575	41.352	0.00	0.00
ATOM	7211	CB	TYR	X	475	26.730	27.983	41.774	0.00	0.00
ATOM	7212	HB2	TYR	X	475	27.674	28.189	41.270	0.00	0.00
ATOM	7213	HB3	TYR	X	475	26.850	28.411	42.769	0.00	0.00
ATOM	7214	CG	TYR	X	475	26.608	26.492	41.950	0.00	0.00
ATOM	7215	CD1	TYR	X	475	25.348	25.851	42.237	0.00	0.00
ATOM	7216	HD1	TYR	X	475	24.467	26.471	42.308	0.00	0.00
ATOM	7217	CE1	TYR	X	475	25.253	24.451	42.369	0.00	0.00
ATOM	7218	HE1	TYR	X	475	24.348	23.935	42.652	0.00	0.00
ATOM	7219	CZ	TYR	X	475	26.431	23.672	42.325	0.00	0.00
ATOM	7220	OH	TYR	X	475	26.415	22.363	42.586	0.00	0.00
ATOM	7221	HH	TYR	X	475	25.528	22.093	42.836	0.00	0.00
ATOM	7222	CE2	TYR	X	475	27.632	24.291	42.060	0.00	0.00
ATOM	7223	HE2	TYR	X	475	28.554	23.729	42.060	0.00	0.00
ATOM	7224	CD2	TYR	X	475	27.762	25.681	41.767	0.00	0.00
ATOM	7225	HD2	TYR	X	475	28.767	26.038	41.592	0.00	0.00
ATOM	7226	C	TYR	X	475	25.881	30.225	41.001	0.00	0.00
ATOM	7227	O	TYR	X	475	25.133	30.886	41.685	0.00	0.00
ATOM	7228	N	TRP	X	476	26.852	30.767	40.262	0.00	0.00
ATOM	7229	H	TRP	X	476	27.407	30.201	39.636	0.00	0.00
ATOM	7230	CA	TRP	X	476	27.168	32.161	40.157	0.00	0.00
ATOM	7231	HA	TRP	X	476	27.243	32.566	41.166	0.00	0.00
ATOM	7232	CB	TRP	X	476	28.452	32.496	39.308	0.00	0.00
ATOM	7233	HB2	TRP	X	476	28.589	31.756	38.520	0.00	0.00

ATOM	7234	HB3	TRP	X	476	28.422	33.441	38.766	0.00	0.00
ATOM	7235	CG	TRP	X	476	29.708	32.483	40.163	0.00	0.00
ATOM	7236	CD1	TRP	X	476	30.540	33.624	40.276	0.00	0.00
ATOM	7237	HD1	TRP	X	476	30.324	34.549	39.763	0.00	0.00
ATOM	7238	NE1	TRP	X	476	31.671	33.315	40.987	0.00	0.00
ATOM	7239	HE1	TRP	X	476	32.466	33.930	41.089	0.00	0.00
ATOM	7240	CE2	TRP	X	476	31.572	32.046	41.492	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	32.456	31.342	42.346	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	33.374	31.775	42.715	0.00	0.00
ATOM	7243	CH2	TRP	X	476	32.174	29.962	42.676	0.00	0.00
ATOM	7244	HH2	TRP	X	476	32.820	29.340	43.278	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	31.030	29.310	42.157	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	30.830	28.298	42.477	0.00	0.00
ATOM	7247	CE3	TRP	X	476	30.159	30.122	41.333	0.00	0.00
ATOM	7248	HE3	TRP	X	476	29.277	29.635	40.943	0.00	0.00
ATOM	7249	CD2	TRP	X	476	30.406	31.482	40.972	0.00	0.00
ATOM	7250	C	TRP	X	476	25.977	32.874	39.476	0.00	0.00
ATOM	7251	O	TRP	X	476	25.620	33.976	39.900	0.00	0.00
ATOM	7252	N	ALA	X	477	25.304	32.321	38.444	0.00	0.00
ATOM	7253	H	ALA	X	477	25.558	31.393	38.139	0.00	0.00
ATOM	7254	CA	ALA	X	477	24.084	32.923	37.842	0.00	0.00
ATOM	7255	HA	ALA	X	477	24.396	33.947	37.636	0.00	0.00
ATOM	7256	CB	ALA	X	477	23.797	32.172	36.519	0.00	0.00
ATOM	7257	HB1	ALA	X	477	24.679	32.327	35.897	0.00	0.00
ATOM	7258	HB2	ALA	X	477	22.960	32.640	36.000	0.00	0.00
ATOM	7259	HB3	ALA	X	477	23.563	31.113	36.630	0.00	0.00
ATOM	7260	C	ALA	X	477	22.848	32.986	38.799	0.00	0.00
ATOM	7261	O	ALA	X	477	22.223	33.993	38.832	0.00	0.00
ATOM	7262	N	ASN	X	478	22.643	31.928	39.586	0.00	0.00
ATOM	7263	H	ASN	X	478	23.289	31.157	39.497	0.00	0.00
ATOM	7264	CA	ASN	X	478	21.568	31.871	40.540	0.00	0.00
ATOM	7265	HA	ASN	X	478	20.645	32.228	40.082	0.00	0.00
ATOM	7266	CB	ASN	X	478	21.267	30.466	41.050	0.00	0.00
ATOM	7267	HB2	ASN	X	478	22.222	29.973	41.232	0.00	0.00
ATOM	7268	HB3	ASN	X	478	20.588	30.527	41.900	0.00	0.00
ATOM	7269	CG	ASN	X	478	20.520	29.497	40.077	0.00	0.00
ATOM	7270	OD1	ASN	X	478	19.839	29.926	39.168	0.00	0.00
ATOM	7271	ND2	ASN	X	478	20.701	28.195	40.303	0.00	0.00
ATOM	7272	HD21	ASN	X	478	20.290	27.558	39.635	0.00	0.00
ATOM	7273	HD22	ASN	X	478	21.433	27.978	40.964	0.00	0.00
ATOM	7274	C	ASN	X	478	21.861	32.902	41.701	0.00	0.00
ATOM	7275	O	ASN	X	478	21.018	33.742	42.050	0.00	0.00
ATOM	7276	N	PHE	X	479	23.109	32.892	42.200	0.00	0.00
ATOM	7277	H	PHE	X	479	23.875	32.341	41.838	0.00	0.00
ATOM	7278	CA	PHE	X	479	23.497	33.969	43.159	0.00	0.00
ATOM	7279	HA	PHE	X	479	22.911	33.962	44.078	0.00	0.00
ATOM	7280	CB	PHE	X	479	24.901	33.789	43.603	0.00	0.00
ATOM	7281	HB2	PHE	X	479	24.916	32.839	44.138	0.00	0.00
ATOM	7282	HB3	PHE	X	479	25.496	33.722	42.692	0.00	0.00
ATOM	7283	CG	PHE	X	479	25.432	34.754	44.577	0.00	0.00
ATOM	7284	CD1	PHE	X	479	25.064	34.628	45.927	0.00	0.00
ATOM	7285	HD1	PHE	X	479	24.423	33.814	46.232	0.00	0.00
ATOM	7286	CE1	PHE	X	479	25.486	35.587	46.782	0.00	0.00
ATOM	7287	HE1	PHE	X	479	25.185	35.493	47.815	0.00	0.00
ATOM	7288	CZ	PHE	X	479	26.170	36.749	46.325	0.00	0.00
ATOM	7289	HZ	PHE	X	479	26.569	37.497	46.993	0.00	0.00
ATOM	7290	CE2	PHE	X	479	26.606	36.860	44.973	0.00	0.00
ATOM	7291	HE2	PHE	X	479	27.193	37.716	44.674	0.00	0.00
ATOM	7292	CD2	PHE	X	479	26.271	35.792	44.071	0.00	0.00
ATOM	7293	HD2	PHE	X	479	26.483	35.960	43.026	0.00	0.00
ATOM	7294	C	PHE	X	479	23.258	35.461	42.623	0.00	0.00
ATOM	7295	O	PHE	X	479	22.593	36.269	43.302	0.00	0.00
ATOM	7296	N	ALA	X	480	23.552	35.681	41.314	0.00	0.00
ATOM	7297	H	ALA	X	480	24.088	34.964	40.848	0.00	0.00
ATOM	7298	CA	ALA	X	480	23.352	36.988	40.733	0.00	0.00
ATOM	7299	HA	ALA	X	480	23.689	37.771	41.411	0.00	0.00
ATOM	7300	CB	ALA	X	480	24.184	36.970	39.403	0.00	0.00

ATOM	7301	HB1	ALA	X	480	25.261	36.879	39.545	0.00	0.00
ATOM	7302	HB2	ALA	X	480	23.945	37.895	38.879	0.00	0.00
ATOM	7303	HB3	ALA	X	480	23.824	36.099	38.856	0.00	0.00
ATOM	7304	C	ALA	X	480	21.827	37.322	40.542	0.00	0.00
ATOM	7305	O	ALA	X	480	21.467	38.470	40.707	0.00	0.00
ATOM	7306	N	ARG	X	481	21.019	36.406	40.141	0.00	0.00
ATOM	7307	H	ARG	X	481	21.470	35.515	39.991	0.00	0.00
ATOM	7308	CA	ARG	X	481	19.520	36.382	40.072	0.00	0.00
ATOM	7309	HA	ARG	X	481	19.314	37.196	39.376	0.00	0.00
ATOM	7310	CB	ARG	X	481	18.994	35.086	39.561	0.00	0.00
ATOM	7311	HB2	ARG	X	481	19.421	34.265	40.137	0.00	0.00
ATOM	7312	HB3	ARG	X	481	17.908	35.090	39.653	0.00	0.00
ATOM	7313	CG	ARG	X	481	19.244	34.849	38.058	0.00	0.00
ATOM	7314	HG2	ARG	X	481	18.558	35.521	37.543	0.00	0.00
ATOM	7315	HG3	ARG	X	481	20.281	35.080	37.816	0.00	0.00
ATOM	7316	CD	ARG	X	481	18.888	33.390	37.646	0.00	0.00
ATOM	7317	HD2	ARG	X	481	19.383	32.686	38.315	0.00	0.00
ATOM	7318	HD3	ARG	X	481	17.811	33.270	37.765	0.00	0.00
ATOM	7319	NE	ARG	X	481	19.301	33.136	36.267	0.00	0.00
ATOM	7320	HE	ARG	X	481	19.039	33.837	35.589	0.00	0.00
ATOM	7321	CZ	ARG	X	481	20.012	32.116	35.826	0.00	0.00
ATOM	7322	NH1	ARG	X	481	20.323	31.081	36.557	0.00	0.00
ATOM	7323	HH11	ARG	X	481	20.085	30.922	37.526	0.00	0.00
ATOM	7324	HH12	ARG	X	481	20.875	30.345	36.141	0.00	0.00
ATOM	7325	NH2	ARG	X	481	20.257	31.983	34.491	0.00	0.00
ATOM	7326	HH21	ARG	X	481	20.338	32.732	33.817	0.00	0.00
ATOM	7327	HH22	ARG	X	481	20.793	31.162	34.249	0.00	0.00
ATOM	7328	C	ARG	X	481	18.866	36.698	41.428	0.00	0.00
ATOM	7329	O	ARG	X	481	17.830	37.355	41.423	0.00	0.00
ATOM	7330	N	THR	X	482	19.343	36.102	42.565	0.00	0.00
ATOM	7331	H	THR	X	482	20.252	35.664	42.514	0.00	0.00
ATOM	7332	CA	THR	X	482	18.552	35.992	43.768	0.00	0.00
ATOM	7333	HA	THR	X	482	17.856	36.829	43.724	0.00	0.00
ATOM	7334	CB	THR	X	482	17.803	34.603	43.882	0.00	0.00
ATOM	7335	HB	THR	X	482	17.203	34.610	44.792	0.00	0.00
ATOM	7336	CG2	THR	X	482	16.765	34.420	42.735	0.00	0.00
ATOM	7337	HG21	THR	X	482	17.185	34.020	41.813	0.00	0.00
ATOM	7338	HG22	THR	X	482	16.250	35.375	42.631	0.00	0.00
ATOM	7339	HG23	THR	X	482	16.081	33.625	43.035	0.00	0.00
ATOM	7340	OG1	THR	X	482	18.640	33.497	43.965	0.00	0.00
ATOM	7341	HG1	THR	X	482	19.376	33.671	43.374	0.00	0.00
ATOM	7342	C	THR	X	482	19.308	36.193	45.089	0.00	0.00
ATOM	7343	O	THR	X	482	18.652	36.564	46.069	0.00	0.00
ATOM	7344	N	GLY	X	483	20.611	35.862	45.122	0.00	0.00
ATOM	7345	H	GLY	X	483	21.065	35.579	44.266	0.00	0.00
ATOM	7346	CA	GLY	X	483	21.333	35.704	46.383	0.00	0.00
ATOM	7347	HA2	GLY	X	483	22.322	36.107	46.164	0.00	0.00
ATOM	7348	HA3	GLY	X	483	20.863	36.310	47.157	0.00	0.00
ATOM	7349	C	GLY	X	483	21.448	34.329	46.897	0.00	0.00
ATOM	7350	O	GLY	X	483	22.281	34.176	47.764	0.00	0.00
ATOM	7351	N	ASP	X	484	20.641	33.308	46.438	0.00	0.00
ATOM	7352	H	ASP	X	484	19.871	33.597	45.851	0.00	0.00
ATOM	7353	CA	ASP	X	484	20.748	31.893	46.742	0.00	0.00
ATOM	7354	HA	ASP	X	484	21.365	31.831	47.638	0.00	0.00
ATOM	7355	CB	ASP	X	484	19.326	31.302	47.077	0.00	0.00
ATOM	7356	HB2	ASP	X	484	18.538	32.049	46.979	0.00	0.00
ATOM	7357	HB3	ASP	X	484	19.033	30.518	46.379	0.00	0.00
ATOM	7358	CG	ASP	X	484	19.222	30.629	48.422	0.00	0.00
ATOM	7359	OD1	ASP	X	484	20.007	29.692	48.606	0.00	0.00
ATOM	7360	OD2	ASP	X	484	18.361	31.101	49.210	0.00	0.00
ATOM	7361	C	ASP	X	484	21.422	31.126	45.546	0.00	0.00
ATOM	7362	O	ASP	X	484	20.949	31.231	44.387	0.00	0.00
ATOM	7363	N	PRO	X	485	22.528	30.348	45.765	0.00	0.00
ATOM	7364	CD	PRO	X	485	23.389	30.456	46.925	0.00	0.00
ATOM	7365	HD2	PRO	X	485	23.084	29.666	47.611	0.00	0.00
ATOM	7366	HD3	PRO	X	485	23.334	31.396	47.474	0.00	0.00
ATOM	7367	CG	PRO	X	485	24.825	30.124	46.497	0.00	0.00

ATOM	7368	HG2	PRO	X	485	25.390	29.578	47.253	0.00	0.00
ATOM	7369	HG3	PRO	X	485	25.296	31.053	46.176	0.00	0.00
ATOM	7370	CB	PRO	X	485	24.650	29.301	45.248	0.00	0.00
ATOM	7371	HB2	PRO	X	485	24.542	28.261	45.558	0.00	0.00
ATOM	7372	HB3	PRO	X	485	25.429	29.417	44.495	0.00	0.00
ATOM	7373	CA	PRO	X	485	23.239	29.626	44.678	0.00	0.00
ATOM	7374	HA	PRO	X	485	23.325	30.404	43.921	0.00	0.00
ATOM	7375	C	PRO	X	485	22.498	28.495	44.071	0.00	0.00
ATOM	7376	O	PRO	X	485	22.669	28.143	42.894	0.00	0.00
ATOM	7377	N	ASN	X	486	21.695	27.815	44.813	0.00	0.00
ATOM	7378	H	ASN	X	486	21.438	28.254	45.686	0.00	0.00
ATOM	7379	CA	ASN	X	486	20.972	26.597	44.426	0.00	0.00
ATOM	7380	HA	ASN	X	486	21.543	26.103	43.640	0.00	0.00
ATOM	7381	CB	ASN	X	486	20.713	25.633	45.598	0.00	0.00
ATOM	7382	HB2	ASN	X	486	19.902	24.949	45.346	0.00	0.00
ATOM	7383	HB3	ASN	X	486	21.627	25.082	45.819	0.00	0.00
ATOM	7384	CG	ASN	X	486	20.368	26.314	46.906	0.00	0.00
ATOM	7385	OD1	ASN	X	486	20.935	25.912	47.893	0.00	0.00
ATOM	7386	ND2	ASN	X	486	19.512	27.290	46.957	0.00	0.00
ATOM	7387	HD21	ASN	X	486	19.713	27.972	47.674	0.00	0.00
ATOM	7388	HD22	ASN	X	486	19.188	27.660	46.075	0.00	0.00
ATOM	7389	C	ASN	X	486	19.624	26.929	43.783	0.00	0.00
ATOM	7390	O	ASN	X	486	18.976	27.927	44.063	0.00	0.00
ATOM	7391	N	GLU	X	487	19.097	26.077	42.913	0.00	0.00
ATOM	7392	H	GLU	X	487	19.658	25.259	42.722	0.00	0.00
ATOM	7393	CA	GLU	X	487	17.953	26.381	42.010	0.00	0.00
ATOM	7394	HA	GLU	X	487	18.331	27.041	41.229	0.00	0.00
ATOM	7395	CB	GLU	X	487	17.392	25.109	41.366	0.00	0.00
ATOM	7396	HB2	GLU	X	487	17.285	24.328	42.120	0.00	0.00
ATOM	7397	HB3	GLU	X	487	16.420	25.371	40.948	0.00	0.00
ATOM	7398	CG	GLU	X	487	18.340	24.598	40.286	0.00	0.00
ATOM	7399	HG2	GLU	X	487	19.344	24.537	40.706	0.00	0.00
ATOM	7400	HG3	GLU	X	487	18.020	23.625	39.913	0.00	0.00
ATOM	7401	CD	GLU	X	487	18.372	25.522	39.065	0.00	0.00
ATOM	7402	OE1	GLU	X	487	17.439	25.403	38.270	0.00	0.00
ATOM	7403	OE2	GLU	X	487	19.371	26.216	38.911	0.00	0.00
ATOM	7404	C	GLU	X	487	16.735	27.010	42.660	0.00	0.00
ATOM	7405	O	GLU	X	487	16.104	26.439	43.559	0.00	0.00
ATOM	7406	N	PRO	X	488	16.452	28.256	42.205	0.00	0.00
ATOM	7407	CD	PRO	X	488	17.332	29.216	41.553	0.00	0.00
ATOM	7408	HD2	PRO	X	488	17.334	29.180	40.464	0.00	0.00
ATOM	7409	HD3	PRO	X	488	18.374	29.220	41.872	0.00	0.00
ATOM	7410	CG	PRO	X	488	16.678	30.598	41.936	0.00	0.00
ATOM	7411	HG2	PRO	X	488	16.789	31.394	41.199	0.00	0.00
ATOM	7412	HG3	PRO	X	488	17.038	30.959	42.900	0.00	0.00
ATOM	7413	CB	PRO	X	488	15.266	30.340	42.108	0.00	0.00
ATOM	7414	HB2	PRO	X	488	14.793	30.503	41.140	0.00	0.00
ATOM	7415	HB3	PRO	X	488	14.881	31.064	42.826	0.00	0.00
ATOM	7416	CA	PRO	X	488	15.155	28.872	42.534	0.00	0.00
ATOM	7417	HA	PRO	X	488	15.072	28.741	43.613	0.00	0.00
ATOM	7418	C	PRO	X	488	13.956	28.149	41.940	0.00	0.00
ATOM	7419	O	PRO	X	488	13.829	28.099	40.726	0.00	0.00
ATOM	7420	N	ARG	X	489	13.175	27.500	42.808	0.00	0.00
ATOM	7421	H	ARG	X	489	13.446	27.533	43.781	0.00	0.00
ATOM	7422	CA	ARG	X	489	12.095	26.523	42.632	0.00	0.00
ATOM	7423	HA	ARG	X	489	11.400	26.917	43.373	0.00	0.00
ATOM	7424	CB	ARG	X	489	11.383	26.450	41.272	0.00	0.00
ATOM	7425	HB2	ARG	X	489	10.378	26.065	41.442	0.00	0.00
ATOM	7426	HB3	ARG	X	489	11.198	27.495	41.020	0.00	0.00
ATOM	7427	CG	ARG	X	489	12.054	25.719	40.095	0.00	0.00
ATOM	7428	HG2	ARG	X	489	13.124	25.610	40.269	0.00	0.00
ATOM	7429	HG3	ARG	X	489	11.630	24.714	40.107	0.00	0.00
ATOM	7430	CD	ARG	X	489	11.920	26.340	38.767	0.00	0.00
ATOM	7431	HD2	ARG	X	489	10.871	26.365	38.470	0.00	0.00
ATOM	7432	HD3	ARG	X	489	12.248	27.366	38.930	0.00	0.00
ATOM	7433	NE	ARG	X	489	12.791	25.683	37.754	0.00	0.00
ATOM	7434	HE	ARG	X	489	12.263	25.179	37.055	0.00	0.00

ATOM	7435	CZ	ARG	X	489	14.179	25.681	37.804	0.00	0.00
ATOM	7436	NH1	ARG	X	489	14.823	24.905	36.931	0.00	0.00
ATOM	7437	HH11	ARG	X	489	14.310	24.373	36.242	0.00	0.00
ATOM	7438	HH12	ARG	X	489	15.831	24.850	36.945	0.00	0.00
ATOM	7439	NH2	ARG	X	489	14.871	26.411	38.646	0.00	0.00
ATOM	7440	HH21	ARG	X	489	14.380	26.908	39.376	0.00	0.00
ATOM	7441	HH22	ARG	X	489	15.870	26.263	38.626	0.00	0.00
ATOM	7442	C	ARG	X	489	12.663	25.236	43.163	0.00	0.00
ATOM	7443	O	ARG	X	489	13.319	24.485	42.363	0.00	0.00
ATOM	7444	N	ASP	X	490	12.542	24.957	44.497	0.00	0.00
ATOM	7445	H	ASP	X	490	11.966	25.582	45.042	0.00	0.00
ATOM	7446	CA	ASP	X	490	13.339	24.036	45.292	0.00	0.00
ATOM	7447	HA	ASP	X	490	14.365	24.384	45.174	0.00	0.00
ATOM	7448	CB	ASP	X	490	13.022	24.118	46.798	0.00	0.00
ATOM	7449	HB2	ASP	X	490	13.448	23.226	47.258	0.00	0.00
ATOM	7450	HB3	ASP	X	490	13.459	25.068	47.106	0.00	0.00
ATOM	7451	CG	ASP	X	490	11.531	24.188	47.107	0.00	0.00
ATOM	7452	OD1	ASP	X	490	10.912	23.319	47.792	0.00	0.00
ATOM	7453	OD2	ASP	X	490	10.998	25.275	46.759	0.00	0.00
ATOM	7454	C	ASP	X	490	13.288	22.581	44.815	0.00	0.00
ATOM	7455	O	ASP	X	490	12.280	21.973	45.126	0.00	0.00
ATOM	7456	N	PRO	X	491	14.309	21.979	44.153	0.00	0.00
ATOM	7457	CD	PRO	X	491	15.529	22.645	43.679	0.00	0.00
ATOM	7458	HD2	PRO	X	491	16.423	22.405	44.254	0.00	0.00
ATOM	7459	HD3	PRO	X	491	15.377	23.719	43.571	0.00	0.00
ATOM	7460	CG	PRO	X	491	15.661	22.119	42.311	0.00	0.00
ATOM	7461	HG2	PRO	X	491	16.631	22.327	41.860	0.00	0.00
ATOM	7462	HG3	PRO	X	491	14.981	22.625	41.627	0.00	0.00
ATOM	7463	CB	PRO	X	491	15.393	20.652	42.497	0.00	0.00
ATOM	7464	HB2	PRO	X	491	16.313	20.182	42.843	0.00	0.00
ATOM	7465	HB3	PRO	X	491	15.043	20.149	41.595	0.00	0.00
ATOM	7466	CA	PRO	X	491	14.329	20.656	43.574	0.00	0.00
ATOM	7467	HA	PRO	X	491	13.329	20.578	43.148	0.00	0.00
ATOM	7468	C	PRO	X	491	14.464	19.474	44.600	0.00	0.00
ATOM	7469	O	PRO	X	491	13.788	19.466	45.681	0.00	0.00
ATOM	7470	N	LYS	X	492	15.413	18.552	44.349	0.00	0.00
ATOM	7471	H	LYS	X	492	15.898	18.704	43.477	0.00	0.00
ATOM	7472	CA	LYS	X	492	15.535	17.249	45.152	0.00	0.00
ATOM	7473	HA	LYS	X	492	15.225	17.515	46.162	0.00	0.00
ATOM	7474	CB	LYS	X	492	14.627	16.152	44.734	0.00	0.00
ATOM	7475	HB2	LYS	X	492	14.793	15.255	45.331	0.00	0.00
ATOM	7476	HB3	LYS	X	492	13.621	16.458	45.021	0.00	0.00
ATOM	7477	CG	LYS	X	492	14.588	15.838	43.262	0.00	0.00
ATOM	7478	HG2	LYS	X	492	15.582	16.055	42.871	0.00	0.00
ATOM	7479	HG3	LYS	X	492	14.342	14.795	43.063	0.00	0.00
ATOM	7480	CD	LYS	X	492	13.682	16.645	42.351	0.00	0.00
ATOM	7481	HD2	LYS	X	492	12.665	16.374	42.634	0.00	0.00
ATOM	7482	HD3	LYS	X	492	13.931	17.702	42.443	0.00	0.00
ATOM	7483	CE	LYS	X	492	13.795	16.252	40.903	0.00	0.00
ATOM	7484	HE2	LYS	X	492	14.801	16.415	40.518	0.00	0.00
ATOM	7485	HE3	LYS	X	492	13.555	15.202	40.729	0.00	0.00
ATOM	7486	NZ	LYS	X	492	12.958	17.073	40.071	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	13.207	18.050	40.132	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	13.052	16.801	39.103	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	11.981	16.928	40.285	0.00	0.00
ATOM	7490	C	LYS	X	492	17.047	16.790	45.258	0.00	0.00
ATOM	7491	O	LYS	X	492	17.369	15.572	45.416	0.00	0.00
ATOM	7492	N	ALA	X	493	17.921	17.771	45.205	0.00	0.00
ATOM	7493	H	ALA	X	493	17.601	18.709	45.400	0.00	0.00
ATOM	7494	CA	ALA	X	493	19.356	17.654	45.226	0.00	0.00
ATOM	7495	HA	ALA	X	493	19.568	16.585	45.201	0.00	0.00
ATOM	7496	CB	ALA	X	493	19.891	18.275	43.932	0.00	0.00
ATOM	7497	HB1	ALA	X	493	20.970	18.128	43.895	0.00	0.00
ATOM	7498	HB2	ALA	X	493	19.792	19.358	44.006	0.00	0.00
ATOM	7499	HB3	ALA	X	493	19.487	17.780	43.048	0.00	0.00
ATOM	7500	C	ALA	X	493	20.018	18.239	46.475	0.00	0.00
ATOM	7501	O	ALA	X	493	19.307	18.794	47.318	0.00	0.00

ATOM	7502	N	PRO	X	494	21.334	18.068	46.710	0.00	0.00
ATOM	7503	CD	PRO	X	494	22.160	17.014	46.078	0.00	0.00
ATOM	7504	HD2	PRO	X	494	22.611	17.298	45.127	0.00	0.00
ATOM	7505	HD3	PRO	X	494	21.638	16.068	45.935	0.00	0.00
ATOM	7506	CG	PRO	X	494	23.383	16.812	47.001	0.00	0.00
ATOM	7507	HG2	PRO	X	494	24.302	16.443	46.545	0.00	0.00
ATOM	7508	HG3	PRO	X	494	23.060	16.079	47.740	0.00	0.00
ATOM	7509	CB	PRO	X	494	23.546	18.218	47.572	0.00	0.00
ATOM	7510	HB2	PRO	X	494	24.090	18.841	46.862	0.00	0.00
ATOM	7511	HB3	PRO	X	494	24.051	18.102	48.531	0.00	0.00
ATOM	7512	CA	PRO	X	494	22.117	18.705	47.725	0.00	0.00
ATOM	7513	HA	PRO	X	494	21.786	18.490	48.741	0.00	0.00
ATOM	7514	C	PRO	X	494	22.067	20.227	47.558	0.00	0.00
ATOM	7515	O	PRO	X	494	22.219	20.753	46.442	0.00	0.00
ATOM	7516	N	GLN	X	495	21.836	20.911	48.691	0.00	0.00
ATOM	7517	H	GLN	X	495	21.775	20.413	49.567	0.00	0.00
ATOM	7518	CA	GLN	X	495	21.731	22.381	48.767	0.00	0.00
ATOM	7519	HA	GLN	X	495	21.649	22.813	47.769	0.00	0.00
ATOM	7520	CB	GLN	X	495	20.436	22.741	49.469	0.00	0.00
ATOM	7521	HB2	GLN	X	495	20.610	22.268	50.435	0.00	0.00
ATOM	7522	HB3	GLN	X	495	20.317	23.817	49.598	0.00	0.00
ATOM	7523	CG	GLN	X	495	19.129	22.215	48.766	0.00	0.00
ATOM	7524	HG2	GLN	X	495	19.197	21.193	48.393	0.00	0.00
ATOM	7525	HG3	GLN	X	495	18.325	22.349	49.489	0.00	0.00
ATOM	7526	CD	GLN	X	495	18.794	23.015	47.533	0.00	0.00
ATOM	7527	OE1	GLN	X	495	19.250	22.735	46.422	0.00	0.00
ATOM	7528	NE2	GLN	X	495	18.079	24.136	47.655	0.00	0.00
ATOM	7529	HE21	GLN	X	495	17.955	24.696	46.823	0.00	0.00
ATOM	7530	HE22	GLN	X	495	17.837	24.522	48.557	0.00	0.00
ATOM	7531	C	GLN	X	495	22.996	23.015	49.455	0.00	0.00
ATOM	7532	O	GLN	X	495	23.787	22.356	50.106	0.00	0.00
ATOM	7533	N	TRP	X	496	23.240	24.321	49.277	0.00	0.00
ATOM	7534	H	TRP	X	496	22.502	24.767	48.751	0.00	0.00
ATOM	7535	CA	TRP	X	496	24.407	25.059	49.773	0.00	0.00
ATOM	7536	HA	TRP	X	496	25.203	24.335	49.949	0.00	0.00
ATOM	7537	CB	TRP	X	496	24.838	26.015	48.694	0.00	0.00
ATOM	7538	HB2	TRP	X	496	24.815	25.551	47.708	0.00	0.00
ATOM	7539	HB3	TRP	X	496	24.045	26.744	48.526	0.00	0.00
ATOM	7540	CG	TRP	X	496	26.198	26.662	48.814	0.00	0.00
ATOM	7541	CD1	TRP	X	496	26.949	26.846	49.906	0.00	0.00
ATOM	7542	HD1	TRP	X	496	26.597	26.641	50.906	0.00	0.00
ATOM	7543	NE1	TRP	X	496	28.152	27.411	49.633	0.00	0.00
ATOM	7544	HE1	TRP	X	496	28.867	27.562	50.331	0.00	0.00
ATOM	7545	CE2	TRP	X	496	28.308	27.540	48.284	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	29.316	28.033	47.496	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	30.173	28.470	47.988	0.00	0.00
ATOM	7548	CH2	TRP	X	496	29.256	27.979	46.101	0.00	0.00
ATOM	7549	HH2	TRP	X	496	30.062	28.307	45.460	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	28.077	27.517	45.483	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	28.052	27.494	44.404	0.00	0.00
ATOM	7552	CE3	TRP	X	496	27.041	26.997	46.299	0.00	0.00
ATOM	7553	HE3	TRP	X	496	26.193	26.544	45.806	0.00	0.00
ATOM	7554	CD2	TRP	X	496	27.077	27.049	47.709	0.00	0.00
ATOM	7555	C	TRP	X	496	24.072	25.782	51.078	0.00	0.00
ATOM	7556	O	TRP	X	496	23.430	26.854	50.987	0.00	0.00
ATOM	7557	N	PRO	X	497	24.570	25.381	52.284	0.00	0.00
ATOM	7558	CD	PRO	X	497	25.296	24.174	52.501	0.00	0.00
ATOM	7559	HD2	PRO	X	497	26.369	24.272	52.334	0.00	0.00
ATOM	7560	HD3	PRO	X	497	24.937	23.369	51.861	0.00	0.00
ATOM	7561	CG	PRO	X	497	24.938	23.831	53.958	0.00	0.00
ATOM	7562	HG2	PRO	X	497	25.607	23.154	54.489	0.00	0.00
ATOM	7563	HG3	PRO	X	497	23.988	23.305	54.042	0.00	0.00
ATOM	7564	CB	PRO	X	497	24.866	25.214	54.601	0.00	0.00
ATOM	7565	HB2	PRO	X	497	25.857	25.623	54.798	0.00	0.00
ATOM	7566	HB3	PRO	X	497	24.208	25.187	55.469	0.00	0.00
ATOM	7567	CA	PRO	X	497	24.296	26.080	53.555	0.00	0.00
ATOM	7568	HA	PRO	X	497	23.214	26.170	53.645	0.00	0.00

ATOM	7569	C	PRO	X	497	24.961	27.497	53.568	0.00	0.00
ATOM	7570	O	PRO	X	497	26.121	27.559	53.210	0.00	0.00
ATOM	7571	N	PRO	X	498	24.304	28.563	54.104	0.00	0.00
ATOM	7572	CD	PRO	X	498	22.884	28.671	54.270	0.00	0.00
ATOM	7573	HD2	PRO	X	498	22.616	28.259	55.243	0.00	0.00
ATOM	7574	HD3	PRO	X	498	22.365	28.145	53.470	0.00	0.00
ATOM	7575	CG	PRO	X	498	22.510	30.151	54.263	0.00	0.00
ATOM	7576	HG2	PRO	X	498	21.630	30.290	54.891	0.00	0.00
ATOM	7577	HG3	PRO	X	498	22.336	30.520	53.252	0.00	0.00
ATOM	7578	CB	PRO	X	498	23.720	30.759	54.931	0.00	0.00
ATOM	7579	HB2	PRO	X	498	23.626	30.774	56.017	0.00	0.00
ATOM	7580	HB3	PRO	X	498	23.942	31.781	54.626	0.00	0.00
ATOM	7581	CA	PRO	X	498	24.872	29.826	54.468	0.00	0.00
ATOM	7582	HA	PRO	X	498	25.342	30.191	53.555	0.00	0.00
ATOM	7583	C	PRO	X	498	25.992	29.695	55.583	0.00	0.00
ATOM	7584	O	PRO	X	498	25.867	28.881	56.541	0.00	0.00
ATOM	7585	N	TYR	X	499	27.103	30.467	55.432	0.00	0.00
ATOM	7586	H	TYR	X	499	27.140	31.095	54.642	0.00	0.00
ATOM	7587	CA	TYR	X	499	28.259	30.299	56.371	0.00	0.00
ATOM	7588	HA	TYR	X	499	28.259	29.231	56.592	0.00	0.00
ATOM	7589	CB	TYR	X	499	29.554	30.785	55.635	0.00	0.00
ATOM	7590	HB2	TYR	X	499	29.753	30.126	54.789	0.00	0.00
ATOM	7591	HB3	TYR	X	499	29.291	31.779	55.274	0.00	0.00
ATOM	7592	CG	TYR	X	499	30.810	30.758	56.432	0.00	0.00
ATOM	7593	CD1	TYR	X	499	31.313	31.874	57.141	0.00	0.00
ATOM	7594	HD1	TYR	X	499	30.825	32.823	56.969	0.00	0.00
ATOM	7595	CE1	TYR	X	499	32.498	31.858	57.840	0.00	0.00
ATOM	7596	HE1	TYR	X	499	32.872	32.768	58.286	0.00	0.00
ATOM	7597	CZ	TYR	X	499	33.219	30.654	58.037	0.00	0.00
ATOM	7598	OH	TYR	X	499	34.321	30.569	58.825	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.665	31.442	59.028	0.00	0.00
ATOM	7600	CE2	TYR	X	499	32.644	29.549	57.360	0.00	0.00
ATOM	7601	HE2	TYR	X	499	33.199	28.641	57.541	0.00	0.00
ATOM	7602	CD2	TYR	X	499	31.502	29.558	56.602	0.00	0.00
ATOM	7603	HD2	TYR	X	499	31.259	28.606	56.154	0.00	0.00
ATOM	7604	C	TYR	X	499	27.929	31.097	57.616	0.00	0.00
ATOM	7605	O	TYR	X	499	28.302	32.274	57.735	0.00	0.00
ATOM	7606	N	THR	X	500	27.310	30.401	58.621	0.00	0.00
ATOM	7607	H	THR	X	500	27.044	29.442	58.447	0.00	0.00
ATOM	7608	CA	THR	X	500	27.143	30.936	60.019	0.00	0.00
ATOM	7609	HA	THR	X	500	27.050	32.020	59.955	0.00	0.00
ATOM	7610	CB	THR	X	500	25.839	30.528	60.788	0.00	0.00
ATOM	7611	HB	THR	X	500	25.013	31.043	60.297	0.00	0.00
ATOM	7612	CG2	THR	X	500	25.697	29.042	60.981	0.00	0.00
ATOM	7613	HG21	THR	X	500	24.752	28.981	61.519	0.00	0.00
ATOM	7614	HG22	THR	X	500	26.537	28.650	61.554	0.00	0.00
ATOM	7615	HG23	THR	X	500	25.610	28.575	60.000	0.00	0.00
ATOM	7616	OG1	THR	X	500	26.023	31.082	62.084	0.00	0.00
ATOM	7617	HG1	THR	X	500	25.198	31.486	62.362	0.00	0.00
ATOM	7618	C	THR	X	500	28.408	30.792	60.819	0.00	0.00
ATOM	7619	O	THR	X	500	28.987	29.685	60.820	0.00	0.00
ATOM	7620	N	ALA	X	501	28.892	31.862	61.481	0.00	0.00
ATOM	7621	H	ALA	X	501	28.309	32.687	61.505	0.00	0.00
ATOM	7622	CA	ALA	X	501	30.186	31.914	62.138	0.00	0.00
ATOM	7623	HA	ALA	X	501	30.952	31.657	61.407	0.00	0.00
ATOM	7624	CB	ALA	X	501	30.473	33.323	62.665	0.00	0.00
ATOM	7625	HB1	ALA	X	501	30.348	34.060	61.872	0.00	0.00
ATOM	7626	HB2	ALA	X	501	31.485	33.403	63.061	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.867	33.604	63.526	0.00	0.00
ATOM	7628	C	ALA	X	501	30.419	30.865	63.283	0.00	0.00
ATOM	7629	O	ALA	X	501	31.581	30.634	63.608	0.00	0.00
ATOM	7630	N	GLY	X	502	29.357	30.247	63.852	0.00	0.00
ATOM	7631	H	GLY	X	502	28.483	30.623	63.515	0.00	0.00
ATOM	7632	CA	GLY	X	502	29.390	29.143	64.842	0.00	0.00
ATOM	7633	HA2	GLY	X	502	30.177	29.334	65.571	0.00	0.00
ATOM	7634	HA3	GLY	X	502	28.403	29.126	65.304	0.00	0.00
ATOM	7635	C	GLY	X	502	29.662	27.776	64.197	0.00	0.00

ATOM	7636	O	GLY	X	502	30.572	26.991	64.496	0.00	0.00
ATOM	7637	N	ALA	X	503	28.872	27.478	63.167	0.00	0.00
ATOM	7638	H	ALA	X	503	28.164	28.117	62.835	0.00	0.00
ATOM	7639	CA	ALA	X	503	28.875	26.118	62.447	0.00	0.00
ATOM	7640	HA	ALA	X	503	29.118	25.383	63.214	0.00	0.00
ATOM	7641	CB	ALA	X	503	27.538	25.870	61.825	0.00	0.00
ATOM	7642	HB1	ALA	X	503	27.494	24.942	61.254	0.00	0.00
ATOM	7643	HB2	ALA	X	503	27.269	26.649	61.113	0.00	0.00
ATOM	7644	HB3	ALA	X	503	26.812	25.860	62.638	0.00	0.00
ATOM	7645	C	ALA	X	503	29.984	25.978	61.403	0.00	0.00
ATOM	7646	O	ALA	X	503	30.678	24.958	61.353	0.00	0.00
ATOM	7647	N	GLN	X	504	30.215	27.038	60.636	0.00	0.00
ATOM	7648	H	GLN	X	504	29.645	27.858	60.782	0.00	0.00
ATOM	7649	CA	GLN	X	504	31.308	27.225	59.678	0.00	0.00
ATOM	7650	HA	GLN	X	504	31.169	28.236	59.294	0.00	0.00
ATOM	7651	CB	GLN	X	504	32.703	27.276	60.399	0.00	0.00
ATOM	7652	HB2	GLN	X	504	32.905	26.274	60.780	0.00	0.00
ATOM	7653	HB3	GLN	X	504	33.452	27.553	59.658	0.00	0.00
ATOM	7654	CG	GLN	X	504	32.741	28.307	61.567	0.00	0.00
ATOM	7655	HG2	GLN	X	504	32.425	29.292	61.225	0.00	0.00
ATOM	7656	HG3	GLN	X	504	32.004	27.982	62.302	0.00	0.00
ATOM	7657	CD	GLN	X	504	34.106	28.417	62.220	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.055	27.753	61.883	0.00	0.00
ATOM	7659	NE2	GLN	X	504	34.248	29.273	63.162	0.00	0.00
ATOM	7660	HE21	GLN	X	504	35.132	29.314	63.650	0.00	0.00
ATOM	7661	HE22	GLN	X	504	33.433	29.800	63.439	0.00	0.00
ATOM	7662	C	GLN	X	504	31.236	26.281	58.483	0.00	0.00
ATOM	7663	O	GLN	X	504	32.262	25.610	58.135	0.00	0.00
ATOM	7664	N	GLN	X	505	30.068	26.329	57.887	0.00	0.00
ATOM	7665	H	GLN	X	505	29.320	26.925	58.211	0.00	0.00
ATOM	7666	CA	GLN	X	505	29.697	25.331	56.850	0.00	0.00
ATOM	7667	HA	GLN	X	505	30.235	24.397	57.014	0.00	0.00
ATOM	7668	CB	GLN	X	505	28.169	25.021	56.826	0.00	0.00
ATOM	7669	HB2	GLN	X	505	27.625	25.942	57.032	0.00	0.00
ATOM	7670	HB3	GLN	X	505	27.881	24.494	55.917	0.00	0.00
ATOM	7671	CG	GLN	X	505	27.873	24.030	58.005	0.00	0.00
ATOM	7672	HG2	GLN	X	505	28.398	23.091	57.827	0.00	0.00
ATOM	7673	HG3	GLN	X	505	28.272	24.490	58.909	0.00	0.00
ATOM	7674	CD	GLN	X	505	26.359	23.698	58.153	0.00	0.00
ATOM	7675	OE1	GLN	X	505	25.669	24.207	59.033	0.00	0.00
ATOM	7676	NE2	GLN	X	505	25.870	22.896	57.285	0.00	0.00
ATOM	7677	HE21	GLN	X	505	24.941	22.540	57.461	0.00	0.00
ATOM	7678	HE22	GLN	X	505	26.519	22.376	56.713	0.00	0.00
ATOM	7679	C	GLN	X	505	30.206	25.866	55.550	0.00	0.00
ATOM	7680	O	GLN	X	505	29.847	26.996	55.117	0.00	0.00
ATOM	7681	N	TYR	X	506	30.953	25.003	54.818	0.00	0.00
ATOM	7682	H	TYR	X	506	30.979	24.009	54.992	0.00	0.00
ATOM	7683	CA	TYR	X	506	31.289	25.265	53.419	0.00	0.00
ATOM	7684	HA	TYR	X	506	30.616	26.003	52.981	0.00	0.00
ATOM	7685	CB	TYR	X	506	32.733	25.784	53.471	0.00	0.00
ATOM	7686	HB2	TYR	X	506	33.059	26.117	52.486	0.00	0.00
ATOM	7687	HB3	TYR	X	506	32.822	26.664	54.109	0.00	0.00
ATOM	7688	CG	TYR	X	506	33.739	24.675	53.904	0.00	0.00
ATOM	7689	CD1	TYR	X	506	33.894	24.460	55.287	0.00	0.00
ATOM	7690	HD1	TYR	X	506	33.331	25.018	56.021	0.00	0.00
ATOM	7691	CE1	TYR	X	506	34.841	23.490	55.720	0.00	0.00
ATOM	7692	HE1	TYR	X	506	35.019	23.266	56.762	0.00	0.00
ATOM	7693	CZ	TYR	X	506	35.708	22.785	54.814	0.00	0.00
ATOM	7694	OH	TYR	X	506	36.569	21.803	55.188	0.00	0.00
ATOM	7695	HH	TYR	X	506	36.803	21.798	56.119	0.00	0.00
ATOM	7696	CE2	TYR	X	506	35.411	22.977	53.431	0.00	0.00
ATOM	7697	HE2	TYR	X	506	36.023	22.437	52.723	0.00	0.00
ATOM	7698	CD2	TYR	X	506	34.502	23.915	52.964	0.00	0.00
ATOM	7699	HD2	TYR	X	506	34.347	23.999	51.899	0.00	0.00
ATOM	7700	C	TYR	X	506	31.077	24.019	52.531	0.00	0.00
ATOM	7701	O	TYR	X	506	31.007	22.874	53.062	0.00	0.00
ATOM	7702	N	VAL	X	507	30.980	24.240	51.249	0.00	0.00

ATOM	7703	H	VAL	X	507	30.960	25.171	50.857	0.00	0.00
ATOM	7704	CA	VAL	X	507	30.906	23.094	50.344	0.00	0.00
ATOM	7705	HA	VAL	X	507	30.704	22.176	50.896	0.00	0.00
ATOM	7706	CB	VAL	X	507	29.871	23.320	49.147	0.00	0.00
ATOM	7707	HB	VAL	X	507	29.879	22.531	48.395	0.00	0.00
ATOM	7708	CG1	VAL	X	507	28.503	23.535	49.856	0.00	0.00
ATOM	7709	HG11	VAL	X	507	28.571	24.347	50.580	0.00	0.00
ATOM	7710	HG12	VAL	X	507	27.640	23.762	49.229	0.00	0.00
ATOM	7711	HG13	VAL	X	507	28.378	22.663	50.497	0.00	0.00
ATOM	7712	CG2	VAL	X	507	30.219	24.574	48.319	0.00	0.00
ATOM	7713	HG21	VAL	X	507	29.489	24.767	47.534	0.00	0.00
ATOM	7714	HG22	VAL	X	507	31.115	24.296	47.764	0.00	0.00
ATOM	7715	HG23	VAL	X	507	30.309	25.455	48.955	0.00	0.00
ATOM	7716	C	VAL	X	507	32.264	22.730	49.676	0.00	0.00
ATOM	7717	O	VAL	X	507	33.161	23.578	49.436	0.00	0.00
ATOM	7718	N	SER	X	508	32.388	21.463	49.223	0.00	0.00
ATOM	7719	H	SER	X	508	31.703	20.767	49.481	0.00	0.00
ATOM	7720	CA	SER	X	508	33.307	21.138	48.128	0.00	0.00
ATOM	7721	HA	SER	X	508	34.227	21.710	48.250	0.00	0.00
ATOM	7722	CB	SER	X	508	33.672	19.653	48.085	0.00	0.00
ATOM	7723	HB2	SER	X	508	34.588	19.638	47.495	0.00	0.00
ATOM	7724	HB3	SER	X	508	33.916	19.300	49.087	0.00	0.00
ATOM	7725	OG	SER	X	508	32.701	18.750	47.483	0.00	0.00
ATOM	7726	HG	SER	X	508	32.980	18.512	46.596	0.00	0.00
ATOM	7727	C	SER	X	508	32.792	21.547	46.717	0.00	0.00
ATOM	7728	O	SER	X	508	31.641	21.387	46.350	0.00	0.00
ATOM	7729	N	LEU	X	509	33.718	22.181	45.961	0.00	0.00
ATOM	7730	H	LEU	X	509	34.606	22.306	46.427	0.00	0.00
ATOM	7731	CA	LEU	X	509	33.561	22.448	44.502	0.00	0.00
ATOM	7732	HA	LEU	X	509	32.606	22.042	44.169	0.00	0.00
ATOM	7733	CB	LEU	X	509	33.603	23.938	44.080	0.00	0.00
ATOM	7734	HB2	LEU	X	509	34.523	24.458	44.348	0.00	0.00
ATOM	7735	HB3	LEU	X	509	33.538	24.006	42.994	0.00	0.00
ATOM	7736	CG	LEU	X	509	32.448	24.811	44.647	0.00	0.00
ATOM	7737	HG	LEU	X	509	32.352	24.710	45.728	0.00	0.00
ATOM	7738	CD1	LEU	X	509	32.668	26.269	44.207	0.00	0.00
ATOM	7739	HD11	LEU	X	509	31.969	26.877	44.782	0.00	0.00
ATOM	7740	HD12	LEU	X	509	32.565	26.344	43.125	0.00	0.00
ATOM	7741	HD13	LEU	X	509	33.678	26.597	44.455	0.00	0.00
ATOM	7742	CD2	LEU	X	509	31.043	24.293	44.222	0.00	0.00
ATOM	7743	HD21	LEU	X	509	30.920	24.271	43.139	0.00	0.00
ATOM	7744	HD22	LEU	X	509	30.808	23.305	44.616	0.00	0.00
ATOM	7745	HD23	LEU	X	509	30.300	24.979	44.631	0.00	0.00
ATOM	7746	C	LEU	X	509	34.507	21.529	43.724	0.00	0.00
ATOM	7747	O	LEU	X	509	35.644	21.908	43.457	0.00	0.00
ATOM	7748	N	ASP	X	510	34.019	20.383	43.295	0.00	0.00
ATOM	7749	H	ASP	X	510	33.113	20.067	43.608	0.00	0.00
ATOM	7750	CA	ASP	X	510	34.674	19.319	42.555	0.00	0.00
ATOM	7751	HA	ASP	X	510	35.320	19.806	41.825	0.00	0.00
ATOM	7752	CB	ASP	X	510	35.479	18.366	43.491	0.00	0.00
ATOM	7753	HB2	ASP	X	510	36.150	17.793	42.851	0.00	0.00
ATOM	7754	HB3	ASP	X	510	35.959	19.005	44.232	0.00	0.00
ATOM	7755	CG	ASP	X	510	34.604	17.428	44.338	0.00	0.00
ATOM	7756	OD1	ASP	X	510	34.484	16.214	43.994	0.00	0.00
ATOM	7757	OD2	ASP	X	510	34.069	17.909	45.386	0.00	0.00
ATOM	7758	C	ASP	X	510	33.562	18.472	41.829	0.00	0.00
ATOM	7759	O	ASP	X	510	32.367	18.818	41.814	0.00	0.00
ATOM	7760	N	LEU	X	511	34.009	17.362	41.138	0.00	0.00
ATOM	7761	H	LEU	X	511	34.991	17.139	41.222	0.00	0.00
ATOM	7762	CA	LEU	X	511	33.236	16.504	40.283	0.00	0.00
ATOM	7763	HA	LEU	X	511	32.733	17.057	39.490	0.00	0.00
ATOM	7764	CB	LEU	X	511	34.112	15.495	39.592	0.00	0.00
ATOM	7765	HB2	LEU	X	511	34.633	15.007	40.415	0.00	0.00
ATOM	7766	HB3	LEU	X	511	33.513	14.850	38.949	0.00	0.00
ATOM	7767	CG	LEU	X	511	35.258	16.132	38.658	0.00	0.00
ATOM	7768	HG	LEU	X	511	35.929	16.659	39.335	0.00	0.00
ATOM	7769	CD1	LEU	X	511	36.028	15.037	37.949	0.00	0.00

ATOM	7770	HD11	LEU	X	511	35.306	14.582	37.271	0.00	0.00
ATOM	7771	HD12	LEU	X	511	36.392	14.266	38.629	0.00	0.00
ATOM	7772	HD13	LEU	X	511	36.819	15.395	37.291	0.00	0.00
ATOM	7773	CD2	LEU	X	511	34.655	17.054	37.638	0.00	0.00
ATOM	7774	HD21	LEU	X	511	35.450	17.332	36.945	0.00	0.00
ATOM	7775	HD22	LEU	X	511	33.818	16.574	37.130	0.00	0.00
ATOM	7776	HD23	LEU	X	511	34.190	17.938	38.073	0.00	0.00
ATOM	7777	C	LEU	X	511	32.131	15.815	41.135	0.00	0.00
ATOM	7778	O	LEU	X	511	31.046	15.621	40.577	0.00	0.00
ATOM	7779	N	ARG	X	512	32.342	15.387	42.356	0.00	0.00
ATOM	7780	H	ARG	X	512	33.244	15.570	42.772	0.00	0.00
ATOM	7781	CA	ARG	X	512	31.330	15.022	43.304	0.00	0.00
ATOM	7782	HA	ARG	X	512	30.807	14.147	42.920	0.00	0.00
ATOM	7783	CB	ARG	X	512	31.960	14.475	44.626	0.00	0.00
ATOM	7784	HB2	ARG	X	512	32.397	15.317	45.162	0.00	0.00
ATOM	7785	HB3	ARG	X	512	31.126	14.169	45.258	0.00	0.00
ATOM	7786	CG	ARG	X	512	32.964	13.359	44.506	0.00	0.00
ATOM	7787	HG2	ARG	X	512	32.450	12.420	44.299	0.00	0.00
ATOM	7788	HG3	ARG	X	512	33.634	13.506	43.659	0.00	0.00
ATOM	7789	CD	ARG	X	512	33.751	13.215	45.830	0.00	0.00
ATOM	7790	HD2	ARG	X	512	34.446	14.040	45.984	0.00	0.00
ATOM	7791	HD3	ARG	X	512	33.059	13.219	46.672	0.00	0.00
ATOM	7792	NE	ARG	X	512	34.563	11.957	45.870	0.00	0.00
ATOM	7793	HE	ARG	X	512	34.619	11.580	44.935	0.00	0.00
ATOM	7794	CZ	ARG	X	512	35.139	11.356	46.954	0.00	0.00
ATOM	7795	NH1	ARG	X	512	35.155	11.945	48.178	0.00	0.00
ATOM	7796	HH11	ARG	X	512	34.782	12.844	48.446	0.00	0.00
ATOM	7797	HH12	ARG	X	512	35.642	11.498	48.942	0.00	0.00
ATOM	7798	NH2	ARG	X	512	35.727	10.186	46.819	0.00	0.00
ATOM	7799	HH21	ARG	X	512	35.507	9.698	45.963	0.00	0.00
ATOM	7800	HH22	ARG	X	512	36.096	9.640	47.585	0.00	0.00
ATOM	7801	C	ARG	X	512	30.237	16.047	43.589	0.00	0.00
ATOM	7802	O	ARG	X	512	30.449	17.255	43.492	0.00	0.00
ATOM	7803	N	PRO	X	513	28.992	15.584	43.842	0.00	0.00
ATOM	7804	CD	PRO	X	513	28.508	14.170	43.854	0.00	0.00
ATOM	7805	HD2	PRO	X	513	28.904	13.682	44.745	0.00	0.00
ATOM	7806	HD3	PRO	X	513	28.856	13.644	42.965	0.00	0.00
ATOM	7807	CG	PRO	X	513	27.016	14.266	44.030	0.00	0.00
ATOM	7808	HG2	PRO	X	513	26.606	13.334	44.418	0.00	0.00
ATOM	7809	HG3	PRO	X	513	26.627	14.615	43.073	0.00	0.00
ATOM	7810	CB	PRO	X	513	26.923	15.386	45.010	0.00	0.00
ATOM	7811	HB2	PRO	X	513	27.000	15.160	46.074	0.00	0.00
ATOM	7812	HB3	PRO	X	513	25.937	15.835	44.895	0.00	0.00
ATOM	7813	CA	PRO	X	513	27.977	16.431	44.562	0.00	0.00
ATOM	7814	HA	PRO	X	513	27.564	17.243	43.963	0.00	0.00
ATOM	7815	C	PRO	X	513	28.613	17.101	45.752	0.00	0.00
ATOM	7816	O	PRO	X	513	29.526	16.614	46.422	0.00	0.00
ATOM	7817	N	LEU	X	514	27.976	18.194	46.166	0.00	0.00
ATOM	7818	H	LEU	X	514	27.295	18.642	45.570	0.00	0.00
ATOM	7819	CA	LEU	X	514	28.490	19.220	47.143	0.00	0.00
ATOM	7820	HA	LEU	X	514	29.433	19.582	46.734	0.00	0.00
ATOM	7821	CB	LEU	X	514	27.420	20.390	47.266	0.00	0.00
ATOM	7822	HB2	LEU	X	514	26.475	19.985	47.629	0.00	0.00
ATOM	7823	HB3	LEU	X	514	27.830	21.020	48.055	0.00	0.00
ATOM	7824	CG	LEU	X	514	27.188	21.233	45.982	0.00	0.00
ATOM	7825	HG	LEU	X	514	26.893	20.669	45.096	0.00	0.00
ATOM	7826	CD1	LEU	X	514	26.160	22.278	46.326	0.00	0.00
ATOM	7827	HD11	LEU	X	514	25.842	22.844	45.450	0.00	0.00
ATOM	7828	HD12	LEU	X	514	26.480	22.961	47.113	0.00	0.00
ATOM	7829	HD13	LEU	X	514	25.236	21.771	46.603	0.00	0.00
ATOM	7830	CD2	LEU	X	514	28.501	22.017	45.601	0.00	0.00
ATOM	7831	HD21	LEU	X	514	28.405	22.549	44.654	0.00	0.00
ATOM	7832	HD22	LEU	X	514	28.921	22.694	46.345	0.00	0.00
ATOM	7833	HD23	LEU	X	514	29.253	21.254	45.400	0.00	0.00
ATOM	7834	C	LEU	X	514	28.729	18.561	48.506	0.00	0.00
ATOM	7835	O	LEU	X	514	27.807	18.313	49.295	0.00	0.00
ATOM	7836	N	GLU	X	515	30.033	18.373	48.804	0.00	0.00

ATOM	7837	H	GLU	X	515	30.750	18.568	48.119	0.00	0.00
ATOM	7838	CA	GLU	X	515	30.395	17.847	50.109	0.00	0.00
ATOM	7839	HA	GLU	X	515	29.653	17.109	50.413	0.00	0.00
ATOM	7840	CB	GLU	X	515	31.723	17.082	50.128	0.00	0.00
ATOM	7841	HB2	GLU	X	515	31.679	16.284	49.386	0.00	0.00
ATOM	7842	HB3	GLU	X	515	32.576	17.754	50.040	0.00	0.00
ATOM	7843	CG	GLU	X	515	31.837	16.279	51.476	0.00	0.00
ATOM	7844	HG2	GLU	X	515	31.573	16.977	52.271	0.00	0.00
ATOM	7845	HG3	GLU	X	515	31.081	15.497	51.555	0.00	0.00
ATOM	7846	CD	GLU	X	515	33.193	15.629	51.708	0.00	0.00
ATOM	7847	OE1	GLU	X	515	33.749	15.086	50.733	0.00	0.00
ATOM	7848	OE2	GLU	X	515	33.810	15.798	52.758	0.00	0.00
ATOM	7849	C	GLU	X	515	30.236	18.976	51.078	0.00	0.00
ATOM	7850	O	GLU	X	515	31.220	19.638	51.401	0.00	0.00
ATOM	7851	N	VAL	X	516	29.110	19.098	51.734	0.00	0.00
ATOM	7852	H	VAL	X	516	28.374	18.624	51.231	0.00	0.00
ATOM	7853	CA	VAL	X	516	28.914	19.949	52.939	0.00	0.00
ATOM	7854	HA	VAL	X	516	29.194	20.967	52.665	0.00	0.00
ATOM	7855	CB	VAL	X	516	27.453	20.104	53.364	0.00	0.00
ATOM	7856	HB	VAL	X	516	27.009	19.125	53.545	0.00	0.00
ATOM	7857	CG1	VAL	X	516	27.265	20.943	54.693	0.00	0.00
ATOM	7858	HG11	VAL	X	516	27.686	21.926	54.479	0.00	0.00
ATOM	7859	HG12	VAL	X	516	26.216	21.093	54.946	0.00	0.00
ATOM	7860	HG13	VAL	X	516	27.818	20.412	55.468	0.00	0.00
ATOM	7861	CG2	VAL	X	516	26.508	20.654	52.284	0.00	0.00
ATOM	7862	HG21	VAL	X	516	26.922	21.635	52.051	0.00	0.00
ATOM	7863	HG22	VAL	X	516	25.470	20.807	52.580	0.00	0.00
ATOM	7864	HG23	VAL	X	516	26.456	20.107	51.342	0.00	0.00
ATOM	7865	C	VAL	X	516	29.814	19.557	54.157	0.00	0.00
ATOM	7866	O	VAL	X	516	29.663	18.484	54.713	0.00	0.00
ATOM	7867	N	ARG	X	517	30.758	20.393	54.539	0.00	0.00
ATOM	7868	H	ARG	X	517	30.813	21.282	54.063	0.00	0.00
ATOM	7869	CA	ARG	X	517	31.720	20.245	55.612	0.00	0.00
ATOM	7870	HA	ARG	X	517	31.527	19.305	56.129	0.00	0.00
ATOM	7871	CB	ARG	X	517	33.093	20.276	55.040	0.00	0.00
ATOM	7872	HB2	ARG	X	517	33.267	21.222	54.527	0.00	0.00
ATOM	7873	HB3	ARG	X	517	33.821	20.239	55.850	0.00	0.00
ATOM	7874	CG	ARG	X	517	33.427	19.067	54.119	0.00	0.00
ATOM	7875	HG2	ARG	X	517	33.564	18.134	54.667	0.00	0.00
ATOM	7876	HG3	ARG	X	517	32.531	18.876	53.529	0.00	0.00
ATOM	7877	CD	ARG	X	517	34.701	19.317	53.270	0.00	0.00
ATOM	7878	HD2	ARG	X	517	34.506	20.263	52.764	0.00	0.00
ATOM	7879	HD3	ARG	X	517	35.509	19.478	53.984	0.00	0.00
ATOM	7880	NE	ARG	X	517	34.936	18.294	52.269	0.00	0.00
ATOM	7881	HE	ARG	X	517	34.499	17.390	52.371	0.00	0.00
ATOM	7882	CZ	ARG	X	517	35.638	18.352	51.151	0.00	0.00
ATOM	7883	NH1	ARG	X	517	36.303	19.412	50.876	0.00	0.00
ATOM	7884	HH11	ARG	X	517	36.307	20.173	51.540	0.00	0.00
ATOM	7885	HH12	ARG	X	517	36.632	19.468	49.923	0.00	0.00
ATOM	7886	NH2	ARG	X	517	35.674	17.352	50.351	0.00	0.00
ATOM	7887	HH21	ARG	X	517	35.073	16.546	50.450	0.00	0.00
ATOM	7888	HH22	ARG	X	517	36.146	17.406	49.459	0.00	0.00
ATOM	7889	C	ARG	X	517	31.610	21.366	56.616	0.00	0.00
ATOM	7890	O	ARG	X	517	30.911	22.365	56.382	0.00	0.00
ATOM	7891	N	ARG	X	518	32.233	21.228	57.803	0.00	0.00
ATOM	7892	H	ARG	X	518	32.682	20.345	57.997	0.00	0.00
ATOM	7893	CA	ARG	X	518	32.244	22.221	58.885	0.00	0.00
ATOM	7894	HA	ARG	X	518	31.780	23.132	58.505	0.00	0.00
ATOM	7895	CB	ARG	X	518	31.766	21.682	60.174	0.00	0.00
ATOM	7896	HB2	ARG	X	518	32.024	20.662	60.458	0.00	0.00
ATOM	7897	HB3	ARG	X	518	32.267	22.304	60.915	0.00	0.00
ATOM	7898	CG	ARG	X	518	30.202	21.835	60.188	0.00	0.00
ATOM	7899	HG2	ARG	X	518	29.801	22.816	59.931	0.00	0.00
ATOM	7900	HG3	ARG	X	518	29.760	21.112	59.502	0.00	0.00
ATOM	7901	CD	ARG	X	518	29.616	21.389	61.549	0.00	0.00
ATOM	7902	HD2	ARG	X	518	28.536	21.294	61.437	0.00	0.00
ATOM	7903	HD3	ARG	X	518	30.007	20.393	61.756	0.00	0.00

ATOM	7904	NE	ARG	X	518	30.015	22.219	62.649	0.00	0.00
ATOM	7905	HE	ARG	X	518	30.545	23.034	62.375	0.00	0.00
ATOM	7906	CZ	ARG	X	518	29.691	22.123	63.946	0.00	0.00
ATOM	7907	NH1	ARG	X	518	28.870	21.195	64.412	0.00	0.00
ATOM	7908	HH11	ARG	X	518	28.445	20.453	63.876	0.00	0.00
ATOM	7909	HH12	ARG	X	518	28.631	21.153	65.393	0.00	0.00
ATOM	7910	NH2	ARG	X	518	30.185	22.988	64.780	0.00	0.00
ATOM	7911	HH21	ARG	X	518	30.861	23.710	64.577	0.00	0.00
ATOM	7912	HH22	ARG	X	518	29.837	22.975	65.728	0.00	0.00
ATOM	7913	C	ARG	X	518	33.750	22.546	59.140	0.00	0.00
ATOM	7914	O	ARG	X	518	34.600	21.665	59.130	0.00	0.00
ATOM	7915	N	GLY	X	519	34.012	23.832	59.538	0.00	0.00
ATOM	7916	H	GLY	X	519	33.188	24.413	59.476	0.00	0.00
ATOM	7917	CA	GLY	X	519	35.296	24.445	59.963	0.00	0.00
ATOM	7918	HA2	GLY	X	519	35.052	25.325	60.559	0.00	0.00
ATOM	7919	HA3	GLY	X	519	35.878	23.759	60.579	0.00	0.00
ATOM	7920	C	GLY	X	519	36.087	24.801	58.727	0.00	0.00
ATOM	7921	O	GLY	X	519	36.905	24.001	58.285	0.00	0.00
ATOM	7922	N	LEU	X	520	35.856	26.026	58.218	0.00	0.00
ATOM	7923	H	LEU	X	520	35.230	26.630	58.731	0.00	0.00
ATOM	7924	CA	LEU	X	520	36.668	26.580	57.139	0.00	0.00
ATOM	7925	HA	LEU	X	520	36.697	25.819	56.359	0.00	0.00
ATOM	7926	CB	LEU	X	520	35.879	27.743	56.554	0.00	0.00
ATOM	7927	HB2	LEU	X	520	34.914	27.404	56.177	0.00	0.00
ATOM	7928	HB3	LEU	X	520	35.863	28.392	57.429	0.00	0.00
ATOM	7929	CG	LEU	X	520	36.692	28.424	55.428	0.00	0.00
ATOM	7930	HG	LEU	X	520	37.630	28.826	55.811	0.00	0.00
ATOM	7931	CD1	LEU	X	520	37.051	27.503	54.195	0.00	0.00
ATOM	7932	HD11	LEU	X	520	37.612	28.108	53.483	0.00	0.00
ATOM	7933	HD12	LEU	X	520	36.156	27.078	53.741	0.00	0.00
ATOM	7934	HD13	LEU	X	520	37.681	26.684	54.542	0.00	0.00
ATOM	7935	CD2	LEU	X	520	35.856	29.629	54.879	0.00	0.00
ATOM	7936	HD21	LEU	X	520	36.392	30.092	54.051	0.00	0.00
ATOM	7937	HD22	LEU	X	520	34.870	29.297	54.553	0.00	0.00
ATOM	7938	HD23	LEU	X	520	35.730	30.274	55.749	0.00	0.00
ATOM	7939	C	LEU	X	520	38.085	26.879	57.752	0.00	0.00
ATOM	7940	O	LEU	X	520	38.283	27.975	58.332	0.00	0.00
ATOM	7941	N	ARG	X	521	39.010	25.984	57.696	0.00	0.00
ATOM	7942	H	ARG	X	521	38.636	25.066	57.504	0.00	0.00
ATOM	7943	CA	ARG	X	521	40.442	26.159	58.088	0.00	0.00
ATOM	7944	HA	ARG	X	521	40.879	25.168	57.964	0.00	0.00
ATOM	7945	CB	ARG	X	521	41.022	27.125	57.134	0.00	0.00
ATOM	7946	HB2	ARG	X	521	40.607	26.928	56.146	0.00	0.00
ATOM	7947	HB3	ARG	X	521	40.742	28.120	57.482	0.00	0.00
ATOM	7948	CG	ARG	X	521	42.512	27.067	56.869	0.00	0.00
ATOM	7949	HG2	ARG	X	521	42.843	27.922	56.279	0.00	0.00
ATOM	7950	HG3	ARG	X	521	43.026	27.215	57.818	0.00	0.00
ATOM	7951	CD	ARG	X	521	43.130	25.832	56.305	0.00	0.00
ATOM	7952	HD2	ARG	X	521	42.788	24.925	56.802	0.00	0.00
ATOM	7953	HD3	ARG	X	521	42.882	25.769	55.245	0.00	0.00
ATOM	7954	NE	ARG	X	521	44.561	25.867	56.390	0.00	0.00
ATOM	7955	HE	ARG	X	521	45.039	26.753	56.468	0.00	0.00
ATOM	7956	CZ	ARG	X	521	45.454	24.919	56.219	0.00	0.00
ATOM	7957	NH1	ARG	X	521	45.187	23.715	55.819	0.00	0.00
ATOM	7958	HH11	ARG	X	521	44.307	23.499	55.375	0.00	0.00
ATOM	7959	HH12	ARG	X	521	45.942	23.054	55.702	0.00	0.00
ATOM	7960	NH2	ARG	X	521	46.696	25.211	56.459	0.00	0.00
ATOM	7961	HH21	ARG	X	521	46.888	26.126	56.842	0.00	0.00
ATOM	7962	HH22	ARG	X	521	47.420	24.516	56.350	0.00	0.00
ATOM	7963	C	ARG	X	521	40.631	26.518	59.632	0.00	0.00
ATOM	7964	O	ARG	X	521	41.663	27.045	60.054	0.00	0.00
ATOM	7965	N	ALA	X	522	39.587	26.284	60.414	0.00	0.00
ATOM	7966	H	ALA	X	522	38.790	25.856	59.965	0.00	0.00
ATOM	7967	CA	ALA	X	522	39.370	27.010	61.712	0.00	0.00
ATOM	7968	HA	ALA	X	522	39.083	28.052	61.564	0.00	0.00
ATOM	7969	CB	ALA	X	522	38.127	26.340	62.367	0.00	0.00
ATOM	7970	HB1	ALA	X	522	38.271	25.275	62.553	0.00	0.00

ATOM	7971	HB2	ALA	X	522	37.208	26.396	61.783	0.00	0.00
ATOM	7972	HB3	ALA	X	522	37.955	26.851	63.314	0.00	0.00
ATOM	7973	C	ALA	X	522	40.573	26.968	62.733	0.00	0.00
ATOM	7974	O	ALA	X	522	40.904	28.024	63.319	0.00	0.00
ATOM	7975	N	GLN	X	523	41.295	25.864	62.952	0.00	0.00
ATOM	7976	H	GLN	X	523	40.933	25.055	62.466	0.00	0.00
ATOM	7977	CA	GLN	X	523	42.298	25.780	64.039	0.00	0.00
ATOM	7978	HA	GLN	X	523	42.056	26.286	64.974	0.00	0.00
ATOM	7979	CB	GLN	X	523	42.615	24.281	64.323	0.00	0.00
ATOM	7980	HB2	GLN	X	523	43.091	23.801	63.468	0.00	0.00
ATOM	7981	HB3	GLN	X	523	43.366	24.204	65.109	0.00	0.00
ATOM	7982	CG	GLN	X	523	41.363	23.487	64.795	0.00	0.00
ATOM	7983	HG2	GLN	X	523	40.631	23.437	63.989	0.00	0.00
ATOM	7984	HG3	GLN	X	523	41.689	22.456	64.937	0.00	0.00
ATOM	7985	CD	GLN	X	523	40.645	23.915	66.022	0.00	0.00
ATOM	7986	OE1	GLN	X	523	40.525	25.060	66.343	0.00	0.00
ATOM	7987	NE2	GLN	X	523	39.971	22.976	66.635	0.00	0.00
ATOM	7988	HE21	GLN	X	523	39.428	23.350	67.399	0.00	0.00
ATOM	7989	HE22	GLN	X	523	40.050	21.977	66.514	0.00	0.00
ATOM	7990	C	GLN	X	523	43.545	26.460	63.603	0.00	0.00
ATOM	7991	O	GLN	X	523	44.183	27.107	64.451	0.00	0.00
ATOM	7992	N	ALA	X	524	43.875	26.541	62.278	0.00	0.00
ATOM	7993	H	ALA	X	524	43.381	26.013	61.573	0.00	0.00
ATOM	7994	CA	ALA	X	524	44.943	27.398	61.839	0.00	0.00
ATOM	7995	HA	ALA	X	524	45.782	27.254	62.520	0.00	0.00
ATOM	7996	CB	ALA	X	524	45.306	26.942	60.385	0.00	0.00
ATOM	7997	HB1	ALA	X	524	44.412	27.074	59.776	0.00	0.00
ATOM	7998	HB2	ALA	X	524	45.575	25.889	60.314	0.00	0.00
ATOM	7999	HB3	ALA	X	524	46.172	27.472	59.989	0.00	0.00
ATOM	8000	C	ALA	X	524	44.634	28.894	61.936	0.00	0.00
ATOM	8001	O	ALA	X	524	45.476	29.734	62.259	0.00	0.00
ATOM	8002	N	CYX	X	525	43.456	29.323	61.500	0.00	0.00
ATOM	8003	H	CYX	X	525	42.820	28.653	61.091	0.00	0.00
ATOM	8004	CA	CYX	X	525	42.962	30.707	61.609	0.00	0.00
ATOM	8005	HA	CYX	X	525	43.741	31.303	61.132	0.00	0.00
ATOM	8006	CB	CYX	X	525	41.712	30.840	60.765	0.00	0.00
ATOM	8007	HB2	CYX	X	525	40.899	30.253	61.192	0.00	0.00
ATOM	8008	HB3	CYX	X	525	41.365	31.869	60.860	0.00	0.00
ATOM	8009	SG	CYX	X	525	41.896	30.416	58.967	0.00	0.00
ATOM	8010	C	CYX	X	525	42.792	31.209	63.076	0.00	0.00
ATOM	8011	O	CYX	X	525	42.877	32.398	63.385	0.00	0.00
ATOM	8012	N	ALA	X	526	42.708	30.289	64.068	0.00	0.00
ATOM	8013	H	ALA	X	526	42.575	29.328	63.788	0.00	0.00
ATOM	8014	CA	ALA	X	526	42.760	30.683	65.484	0.00	0.00
ATOM	8015	HA	ALA	X	526	42.054	31.497	65.648	0.00	0.00
ATOM	8016	CB	ALA	X	526	42.404	29.445	66.315	0.00	0.00
ATOM	8017	HB1	ALA	X	526	41.372	29.107	66.231	0.00	0.00
ATOM	8018	HB2	ALA	X	526	42.511	29.649	67.380	0.00	0.00
ATOM	8019	HB3	ALA	X	526	43.171	28.697	66.110	0.00	0.00
ATOM	8020	C	ALA	X	526	44.175	31.317	65.825	0.00	0.00
ATOM	8021	O	ALA	X	526	44.304	32.391	66.458	0.00	0.00
ATOM	8022	N	PHE	X	527	45.253	30.735	65.276	0.00	0.00
ATOM	8023	H	PHE	X	527	45.068	29.921	64.706	0.00	0.00
ATOM	8024	CA	PHE	X	527	46.590	31.285	65.325	0.00	0.00
ATOM	8025	HA	PHE	X	527	46.780	31.623	66.344	0.00	0.00
ATOM	8026	CB	PHE	X	527	47.633	30.407	64.682	0.00	0.00
ATOM	8027	HB2	PHE	X	527	47.622	29.536	65.338	0.00	0.00
ATOM	8028	HB3	PHE	X	527	47.270	29.964	63.754	0.00	0.00
ATOM	8029	CG	PHE	X	527	48.965	31.024	64.581	0.00	0.00
ATOM	8030	CD1	PHE	X	527	49.748	31.080	65.737	0.00	0.00
ATOM	8031	HD1	PHE	X	527	49.370	30.617	66.636	0.00	0.00
ATOM	8032	CE1	PHE	X	527	51.082	31.478	65.645	0.00	0.00
ATOM	8033	HE1	PHE	X	527	51.709	31.511	66.523	0.00	0.00
ATOM	8034	CZ	PHE	X	527	51.621	31.952	64.402	0.00	0.00
ATOM	8035	HZ	PHE	X	527	52.573	32.459	64.353	0.00	0.00
ATOM	8036	CE2	PHE	X	527	50.824	31.949	63.309	0.00	0.00
ATOM	8037	HE2	PHE	X	527	51.195	32.488	62.450	0.00	0.00

ATOM	8038	CD2	PHE	X	527	49.517	31.481	63.386	0.00	0.00
ATOM	8039	HD2	PHE	X	527	48.891	31.462	62.507	0.00	0.00
ATOM	8040	C	PHE	X	527	46.513	32.686	64.673	0.00	0.00
ATOM	8041	O	PHE	X	527	46.871	33.666	65.274	0.00	0.00
ATOM	8042	N	TRP	X	528	46.259	32.811	63.385	0.00	0.00
ATOM	8043	H	TRP	X	528	46.160	31.999	62.793	0.00	0.00
ATOM	8044	CA	TRP	X	528	46.488	34.047	62.676	0.00	0.00
ATOM	8045	HA	TRP	X	528	47.482	34.422	62.918	0.00	0.00
ATOM	8046	CB	TRP	X	528	46.272	33.807	61.168	0.00	0.00
ATOM	8047	HB2	TRP	X	528	45.332	33.329	60.890	0.00	0.00
ATOM	8048	HB3	TRP	X	528	46.309	34.722	60.578	0.00	0.00
ATOM	8049	CG	TRP	X	528	47.329	33.013	60.513	0.00	0.00
ATOM	8050	CD1	TRP	X	528	47.175	31.777	59.990	0.00	0.00
ATOM	8051	HD1	TRP	X	528	46.266	31.194	60.020	0.00	0.00
ATOM	8052	NE1	TRP	X	528	48.372	31.293	59.499	0.00	0.00
ATOM	8053	HE1	TRP	X	528	48.453	30.347	59.155	0.00	0.00
ATOM	8054	CE2	TRP	X	528	49.393	32.193	59.743	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	50.773	32.125	59.440	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	51.211	31.210	59.070	0.00	0.00
ATOM	8057	CH2	TRP	X	528	51.483	33.321	59.660	0.00	0.00
ATOM	8058	HH2	TRP	X	528	52.548	33.305	59.482	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	50.863	34.423	60.187	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	51.403	35.347	60.336	0.00	0.00
ATOM	8061	CE3	TRP	X	528	49.547	34.425	60.496	0.00	0.00
ATOM	8062	HE3	TRP	X	528	49.081	35.340	60.829	0.00	0.00
ATOM	8063	CD2	TRP	X	528	48.770	33.301	60.286	0.00	0.00
ATOM	8064	C	TRP	X	528	45.535	35.165	63.168	0.00	0.00
ATOM	8065	O	TRP	X	528	45.902	36.279	63.462	0.00	0.00
ATOM	8066	N	ASN	X	529	44.244	34.855	63.320	0.00	0.00
ATOM	8067	H	ASN	X	529	43.932	33.895	63.287	0.00	0.00
ATOM	8068	CA	ASN	X	529	43.200	35.852	63.583	0.00	0.00
ATOM	8069	HA	ASN	X	529	43.472	36.859	63.269	0.00	0.00
ATOM	8070	CB	ASN	X	529	41.849	35.362	63.026	0.00	0.00
ATOM	8071	HB2	ASN	X	529	41.580	34.443	63.545	0.00	0.00
ATOM	8072	HB3	ASN	X	529	41.115	36.130	63.273	0.00	0.00
ATOM	8073	CG	ASN	X	529	41.839	35.269	61.473	0.00	0.00
ATOM	8074	OD1	ASN	X	529	42.748	35.678	60.744	0.00	0.00
ATOM	8075	ND2	ASN	X	529	40.906	34.554	60.873	0.00	0.00
ATOM	8076	HD21	ASN	X	529	40.863	34.464	59.868	0.00	0.00
ATOM	8077	HD22	ASN	X	529	40.169	34.186	61.457	0.00	0.00
ATOM	8078	C	ASN	X	529	43.014	36.202	65.065	0.00	0.00
ATOM	8079	O	ASN	X	529	42.279	37.157	65.375	0.00	0.00
ATOM	8080	N	ARG	X	530	43.541	35.388	65.991	0.00	0.00
ATOM	8081	H	ARG	X	530	44.007	34.552	65.671	0.00	0.00
ATOM	8082	CA	ARG	X	530	43.235	35.408	67.419	0.00	0.00
ATOM	8083	HA	ARG	X	530	42.773	36.384	67.563	0.00	0.00
ATOM	8084	CB	ARG	X	530	42.221	34.327	67.815	0.00	0.00
ATOM	8085	HB2	ARG	X	530	41.490	34.221	67.013	0.00	0.00
ATOM	8086	HB3	ARG	X	530	42.653	33.327	67.847	0.00	0.00
ATOM	8087	CG	ARG	X	530	41.421	34.631	69.128	0.00	0.00
ATOM	8088	HG2	ARG	X	530	42.030	34.439	70.011	0.00	0.00
ATOM	8089	HG3	ARG	X	530	40.995	35.634	69.157	0.00	0.00
ATOM	8090	CD	ARG	X	530	40.166	33.667	69.176	0.00	0.00
ATOM	8091	HD2	ARG	X	530	40.487	32.645	68.979	0.00	0.00
ATOM	8092	HD3	ARG	X	530	39.823	33.609	70.209	0.00	0.00
ATOM	8093	NE	ARG	X	530	39.077	34.174	68.314	0.00	0.00
ATOM	8094	HE	ARG	X	530	38.994	35.172	68.184	0.00	0.00
ATOM	8095	CZ	ARG	X	530	38.155	33.394	67.737	0.00	0.00
ATOM	8096	NH1	ARG	X	530	38.027	32.118	67.998	0.00	0.00
ATOM	8097	HH11	ARG	X	530	38.675	31.647	68.612	0.00	0.00
ATOM	8098	HH12	ARG	X	530	37.203	31.649	67.650	0.00	0.00
ATOM	8099	NH2	ARG	X	530	37.233	33.901	66.944	0.00	0.00
ATOM	8100	HH21	ARG	X	530	37.262	34.911	66.935	0.00	0.00
ATOM	8101	HH22	ARG	X	530	36.413	33.396	66.642	0.00	0.00
ATOM	8102	C	ARG	X	530	44.475	35.314	68.415	0.00	0.00
ATOM	8103	O	ARG	X	530	44.320	35.806	69.509	0.00	0.00
ATOM	8104	N	PHE	X	531	45.667	34.784	68.019	0.00	0.00

ATOM	8105	H	PHE	X	531	45.661	34.364	67.101	0.00	0.00
ATOM	8106	CA	PHE	X	531	46.905	34.642	68.851	0.00	0.00
ATOM	8107	HA	PHE	X	531	46.760	34.993	69.873	0.00	0.00
ATOM	8108	CB	PHE	X	531	47.240	33.150	68.935	0.00	0.00
ATOM	8109	HB2	PHE	X	531	46.420	32.511	69.265	0.00	0.00
ATOM	8110	HB3	PHE	X	531	47.592	32.898	67.935	0.00	0.00
ATOM	8111	CG	PHE	X	531	48.474	32.893	69.827	0.00	0.00
ATOM	8112	CD1	PHE	X	531	48.385	32.992	71.194	0.00	0.00
ATOM	8113	HD1	PHE	X	531	47.431	33.099	71.688	0.00	0.00
ATOM	8114	CE1	PHE	X	531	49.489	32.762	71.992	0.00	0.00
ATOM	8115	HE1	PHE	X	531	49.480	32.767	73.072	0.00	0.00
ATOM	8116	CZ	PHE	X	531	50.759	32.503	71.349	0.00	0.00
ATOM	8117	HZ	PHE	X	531	51.613	32.264	71.965	0.00	0.00
ATOM	8118	CE2	PHE	X	531	50.853	32.408	69.961	0.00	0.00
ATOM	8119	HE2	PHE	X	531	51.787	32.133	69.493	0.00	0.00
ATOM	8120	CD2	PHE	X	531	49.732	32.708	69.230	0.00	0.00
ATOM	8121	HD2	PHE	X	531	49.775	32.701	68.151	0.00	0.00
ATOM	8122	C	PHE	X	531	48.092	35.505	68.335	0.00	0.00
ATOM	8123	O	PHE	X	531	48.695	36.316	69.005	0.00	0.00
ATOM	8124	N	LEU	X	532	48.392	35.403	67.019	0.00	0.00
ATOM	8125	H	LEU	X	532	47.912	34.659	66.533	0.00	0.00
ATOM	8126	CA	LEU	X	532	49.620	35.992	66.376	0.00	0.00
ATOM	8127	HA	LEU	X	532	50.449	35.487	66.871	0.00	0.00
ATOM	8128	CB	LEU	X	532	49.635	35.595	64.910	0.00	0.00
ATOM	8129	HB2	LEU	X	532	49.674	34.511	64.809	0.00	0.00
ATOM	8130	HB3	LEU	X	532	48.682	35.924	64.494	0.00	0.00
ATOM	8131	CG	LEU	X	532	50.823	35.983	64.025	0.00	0.00
ATOM	8132	HG	LEU	X	532	50.753	35.246	63.225	0.00	0.00
ATOM	8133	CD1	LEU	X	532	50.662	37.375	63.461	0.00	0.00
ATOM	8134	HD11	LEU	X	532	51.404	37.648	62.710	0.00	0.00
ATOM	8135	HD12	LEU	X	532	50.798	38.184	64.178	0.00	0.00
ATOM	8136	HD13	LEU	X	532	49.674	37.408	63.001	0.00	0.00
ATOM	8137	CD2	LEU	X	532	52.153	35.887	64.781	0.00	0.00
ATOM	8138	HD21	LEU	X	532	52.951	36.076	64.062	0.00	0.00
ATOM	8139	HD22	LEU	X	532	52.236	36.624	65.579	0.00	0.00
ATOM	8140	HD23	LEU	X	532	52.353	34.882	65.151	0.00	0.00
ATOM	8141	C	LEU	X	532	49.644	37.526	66.612	0.00	0.00
ATOM	8142	O	LEU	X	532	50.657	38.123	66.871	0.00	0.00
ATOM	8143	N	PRO	X	533	48.533	38.310	66.475	0.00	0.00
ATOM	8144	CD	PRO	X	533	47.193	37.900	66.048	0.00	0.00
ATOM	8145	HD2	PRO	X	533	46.630	37.418	66.847	0.00	0.00
ATOM	8146	HD3	PRO	X	533	47.227	37.318	65.127	0.00	0.00
ATOM	8147	CG	PRO	X	533	46.471	39.190	65.778	0.00	0.00
ATOM	8148	HG2	PRO	X	533	45.382	39.150	65.813	0.00	0.00
ATOM	8149	HG3	PRO	X	533	46.701	39.560	64.779	0.00	0.00
ATOM	8150	CB	PRO	X	533	47.028	40.253	66.666	0.00	0.00
ATOM	8151	HB2	PRO	X	533	46.595	40.237	67.666	0.00	0.00
ATOM	8152	HB3	PRO	X	533	46.965	41.200	66.130	0.00	0.00
ATOM	8153	CA	PRO	X	533	48.429	39.757	66.876	0.00	0.00
ATOM	8154	HA	PRO	X	533	49.068	40.321	66.196	0.00	0.00
ATOM	8155	C	PRO	X	533	48.827	39.990	68.336	0.00	0.00
ATOM	8156	O	PRO	X	533	49.449	41.003	68.615	0.00	0.00
ATOM	8157	N	LYS	X	534	48.425	39.169	69.354	0.00	0.00
ATOM	8158	H	LYS	X	534	47.913	38.323	69.147	0.00	0.00
ATOM	8159	CA	LYS	X	534	48.896	39.357	70.752	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.531	40.344	71.037	0.00	0.00
ATOM	8161	CB	LYS	X	534	48.232	38.427	71.726	0.00	0.00
ATOM	8162	HB2	LYS	X	534	48.523	37.396	71.521	0.00	0.00
ATOM	8163	HB3	LYS	X	534	48.468	38.755	72.739	0.00	0.00
ATOM	8164	CG	LYS	X	534	46.707	38.419	71.573	0.00	0.00
ATOM	8165	HG2	LYS	X	534	46.329	39.418	71.792	0.00	0.00
ATOM	8166	HG3	LYS	X	534	46.430	38.103	70.567	0.00	0.00
ATOM	8167	CD	LYS	X	534	46.091	37.452	72.575	0.00	0.00
ATOM	8168	HD2	LYS	X	534	46.465	36.434	72.465	0.00	0.00
ATOM	8169	HD3	LYS	X	534	46.452	37.763	73.555	0.00	0.00
ATOM	8170	CE	LYS	X	534	44.587	37.392	72.525	0.00	0.00
ATOM	8171	HE2	LYS	X	534	44.165	38.396	72.529	0.00	0.00

ATOM	8172	HE3	LYS	X	534	44.352	36.939	71.561	0.00	0.00
ATOM	8173	NZ	LYS	X	534	44.131	36.462	73.598	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	44.182	36.856	74.527	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	43.202	36.095	73.448	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	44.678	35.612	73.582	0.00	0.00
ATOM	8177	C	LYS	X	534	50.471	39.243	70.825	0.00	0.00
ATOM	8178	O	LYS	X	534	51.084	40.017	71.563	0.00	0.00
ATOM	8179	N	LEU	X	535	51.068	38.281	70.073	0.00	0.00
ATOM	8180	H	LEU	X	535	50.420	37.750	69.508	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.525	38.003	70.109	0.00	0.00
ATOM	8182	HA	LEU	X	535	52.801	37.995	71.164	0.00	0.00
ATOM	8183	CB	LEU	X	535	52.748	36.629	69.323	0.00	0.00
ATOM	8184	HB2	LEU	X	535	51.981	35.936	69.669	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.543	36.840	68.274	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.103	35.931	69.440	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.359	35.747	70.483	0.00	0.00
ATOM	8188	CD1	LEU	X	535	54.028	34.648	68.732	0.00	0.00
ATOM	8189	HD11	LEU	X	535	53.832	34.869	67.682	0.00	0.00
ATOM	8190	HD12	LEU	X	535	53.229	33.985	69.064	0.00	0.00
ATOM	8191	HD13	LEU	X	535	54.983	34.133	68.842	0.00	0.00
ATOM	8192	CD2	LEU	X	535	55.268	36.761	68.779	0.00	0.00
ATOM	8193	HD21	LEU	X	535	55.580	37.576	69.432	0.00	0.00
ATOM	8194	HD22	LEU	X	535	56.204	36.256	68.542	0.00	0.00
ATOM	8195	HD23	LEU	X	535	54.949	37.135	67.806	0.00	0.00
ATOM	8196	C	LEU	X	535	53.366	39.201	69.556	0.00	0.00
ATOM	8197	O	LEU	X	535	54.301	39.650	70.218	0.00	0.00
ATOM	8198	N	LEU	X	536	52.904	39.773	68.439	0.00	0.00
ATOM	8199	H	LEU	X	536	52.166	39.297	67.939	0.00	0.00
ATOM	8200	CA	LEU	X	536	53.352	40.980	67.850	0.00	0.00
ATOM	8201	HA	LEU	X	536	54.440	40.929	67.886	0.00	0.00
ATOM	8202	CB	LEU	X	536	52.806	41.226	66.408	0.00	0.00
ATOM	8203	HB2	LEU	X	536	51.717	41.181	66.409	0.00	0.00
ATOM	8204	HB3	LEU	X	536	53.203	42.204	66.138	0.00	0.00
ATOM	8205	CG	LEU	X	536	53.364	40.198	65.320	0.00	0.00
ATOM	8206	HG	LEU	X	536	53.028	39.179	65.511	0.00	0.00
ATOM	8207	CD1	LEU	X	536	52.668	40.583	63.999	0.00	0.00
ATOM	8208	HD11	LEU	X	536	52.902	39.808	63.268	0.00	0.00
ATOM	8209	HD12	LEU	X	536	52.951	41.599	63.723	0.00	0.00
ATOM	8210	HD13	LEU	X	536	51.596	40.594	64.193	0.00	0.00
ATOM	8211	CD2	LEU	X	536	54.891	40.192	65.195	0.00	0.00
ATOM	8212	HD21	LEU	X	536	55.225	39.729	64.267	0.00	0.00
ATOM	8213	HD22	LEU	X	536	55.373	41.163	65.308	0.00	0.00
ATOM	8214	HD23	LEU	X	536	55.290	39.709	66.087	0.00	0.00
ATOM	8215	C	LEU	X	536	53.189	42.185	68.704	0.00	0.00
ATOM	8216	O	LEU	X	536	53.982	43.103	68.732	0.00	0.00
ATOM	8217	N	SER	X	537	52.123	42.207	69.537	0.00	0.00
ATOM	8218	H	SER	X	537	51.494	41.426	69.420	0.00	0.00
ATOM	8219	CA	SER	X	537	51.817	43.143	70.640	0.00	0.00
ATOM	8220	HA	SER	X	537	52.118	44.148	70.343	0.00	0.00
ATOM	8221	CB	SER	X	537	50.338	43.234	70.929	0.00	0.00
ATOM	8222	HB2	SER	X	537	49.755	43.318	70.013	0.00	0.00
ATOM	8223	HB3	SER	X	537	50.001	42.247	71.248	0.00	0.00
ATOM	8224	OG	SER	X	537	50.012	44.215	71.935	0.00	0.00
ATOM	8225	HG	SER	X	537	50.648	44.289	72.649	0.00	0.00
ATOM	8226	C	SER	X	537	52.706	42.896	71.944	0.00	0.00
ATOM	8227	O	SER	X	537	52.583	43.640	72.943	0.00	0.00
ATOM	8228	N	ALA	X	538	53.537	41.872	71.936	0.00	0.00
ATOM	8229	H	ALA	X	538	53.418	41.247	71.151	0.00	0.00
ATOM	8230	CA	ALA	X	538	54.438	41.468	73.036	0.00	0.00
ATOM	8231	HA	ALA	X	538	54.499	42.286	73.754	0.00	0.00
ATOM	8232	CB	ALA	X	538	53.773	40.244	73.652	0.00	0.00
ATOM	8233	HB1	ALA	X	538	54.351	40.018	74.549	0.00	0.00
ATOM	8234	HB2	ALA	X	538	53.908	39.392	72.987	0.00	0.00
ATOM	8235	HB3	ALA	X	538	52.772	40.403	74.053	0.00	0.00
ATOM	8236	C	ALA	X	538	55.893	41.325	72.527	0.00	0.00
ATOM	8237	O	ALA	X	538	56.781	40.793	73.261	0.00	0.00
ATOM	8238	N	THR	X	539	56.169	41.588	71.256	0.00	0.00

ATOM	8239	H	THR	X	539	55.422	42.005	70.720	0.00	0.00
ATOM	8240	CA	THR	X	539	57.493	41.704	70.663	0.00	0.00
ATOM	8241	HA	THR	X	539	58.168	41.710	71.519	0.00	0.00
ATOM	8242	CB	THR	X	539	57.849	40.401	69.840	0.00	0.00
ATOM	8243	HB	THR	X	539	58.770	40.595	69.290	0.00	0.00
ATOM	8244	CG2	THR	X	539	58.090	39.165	70.764	0.00	0.00
ATOM	8245	HG21	THR	X	539	58.723	39.470	71.597	0.00	0.00
ATOM	8246	HG22	THR	X	539	58.582	38.388	70.179	0.00	0.00
ATOM	8247	HG23	THR	X	539	57.120	38.828	71.131	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.786	40.010	68.975	0.00	0.00
ATOM	8249	HG1	THR	X	539	56.007	40.130	69.524	0.00	0.00
ATOM	8250	C	THR	X	539	57.689	42.995	69.845	0.00	0.00
ATOM	8251	O	THR	X	539	57.331	44.094	70.374	0.00	0.00
ATOM	8252	OXT	THR	X	539	58.186	43.033	68.701	0.00	0.00

END

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1B41 Production MD Frame 0200
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CRYST1	82.081	82.081	82.081	90.00	90.00	90.00	P	1	1	
ATOM	1	N	ASP	X	1	15.821	43.613	11.121	0.00	0.00
ATOM	2	H1	ASP	X	1	16.093	43.133	11.967	0.00	0.00
ATOM	3	H2	ASP	X	1	15.475	42.980	10.414	0.00	0.00
ATOM	4	H3	ASP	X	1	14.992	44.130	11.374	0.00	0.00
ATOM	5	CA	ASP	X	1	16.805	44.442	10.493	0.00	0.00
ATOM	6	HA	ASP	X	1	17.509	43.810	9.953	0.00	0.00
ATOM	7	CB	ASP	X	1	16.206	45.341	9.459	0.00	0.00
ATOM	8	HB2	ASP	X	1	15.872	44.683	8.657	0.00	0.00
ATOM	9	HB3	ASP	X	1	15.312	45.829	9.846	0.00	0.00
ATOM	10	CG	ASP	X	1	17.242	46.308	8.936	0.00	0.00
ATOM	11	OD1	ASP	X	1	17.154	47.515	9.225	0.00	0.00
ATOM	12	OD2	ASP	X	1	18.251	45.906	8.253	0.00	0.00
ATOM	13	C	ASP	X	1	17.585	45.122	11.539	0.00	0.00
ATOM	14	O	ASP	X	1	18.768	44.889	11.629	0.00	0.00
ATOM	15	N	ALA	X	2	17.012	46.012	12.333	0.00	0.00
ATOM	16	H	ALA	X	2	16.041	46.236	12.170	0.00	0.00
ATOM	17	CA	ALA	X	2	17.746	46.964	13.198	0.00	0.00
ATOM	18	HA	ALA	X	2	18.527	47.366	12.553	0.00	0.00
ATOM	19	CB	ALA	X	2	16.766	48.147	13.504	0.00	0.00
ATOM	20	HB1	ALA	X	2	17.362	49.010	13.798	0.00	0.00
ATOM	21	HB2	ALA	X	2	16.109	47.802	14.303	0.00	0.00
ATOM	22	HB3	ALA	X	2	16.198	48.462	12.629	0.00	0.00
ATOM	23	C	ALA	X	2	18.387	46.365	14.467	0.00	0.00
ATOM	24	O	ALA	X	2	18.307	46.957	15.533	0.00	0.00
ATOM	25	N	GLU	X	3	18.876	45.113	14.445	0.00	0.00
ATOM	26	H	GLU	X	3	18.887	44.594	13.578	0.00	0.00
ATOM	27	CA	GLU	X	3	19.105	44.367	15.657	0.00	0.00
ATOM	28	HA	GLU	X	3	18.241	44.429	16.318	0.00	0.00
ATOM	29	CB	GLU	X	3	19.474	42.846	15.377	0.00	0.00
ATOM	30	HB2	GLU	X	3	20.190	42.776	14.558	0.00	0.00
ATOM	31	HB3	GLU	X	3	20.080	42.467	16.200	0.00	0.00
ATOM	32	CG	GLU	X	3	18.311	41.845	15.168	0.00	0.00
ATOM	33	HG2	GLU	X	3	18.719	40.864	14.926	0.00	0.00
ATOM	34	HG3	GLU	X	3	17.676	41.779	16.051	0.00	0.00
ATOM	35	CD	GLU	X	3	17.486	42.300	13.986	0.00	0.00
ATOM	36	OE1	GLU	X	3	16.320	42.840	14.104	0.00	0.00
ATOM	37	OE2	GLU	X	3	18.068	42.224	12.908	0.00	0.00
ATOM	38	C	GLU	X	3	20.316	44.966	16.345	0.00	0.00
ATOM	39	O	GLU	X	3	20.399	44.893	17.609	0.00	0.00
ATOM	40	N	LEU	X	4	21.217	45.552	15.584	0.00	0.00
ATOM	41	H	LEU	X	4	21.134	45.551	14.577	0.00	0.00
ATOM	42	CA	LEU	X	4	22.497	46.115	15.996	0.00	0.00
ATOM	43	HA	LEU	X	4	22.786	45.740	16.978	0.00	0.00
ATOM	44	CB	LEU	X	4	23.578	45.717	14.912	0.00	0.00

ATOM	45	HB2	LEU	X	4	23.195	46.234	14.032	0.00	0.00
ATOM	46	HB3	LEU	X	4	24.509	46.157	15.268	0.00	0.00
ATOM	47	CG	LEU	X	4	23.654	44.225	14.650	0.00	0.00
ATOM	48	HG	LEU	X	4	22.691	43.772	14.414	0.00	0.00
ATOM	49	CD1	LEU	X	4	24.517	43.988	13.442	0.00	0.00
ATOM	50	HD11	LEU	X	4	25.479	44.435	13.691	0.00	0.00
ATOM	51	HD12	LEU	X	4	24.107	44.430	12.533	0.00	0.00
ATOM	52	HD13	LEU	X	4	24.560	42.928	13.194	0.00	0.00
ATOM	53	CD2	LEU	X	4	24.150	43.488	15.915	0.00	0.00
ATOM	54	HD21	LEU	X	4	23.665	43.477	16.891	0.00	0.00
ATOM	55	HD22	LEU	X	4	24.287	42.447	15.621	0.00	0.00
ATOM	56	HD23	LEU	X	4	25.159	43.827	16.151	0.00	0.00
ATOM	57	C	LEU	X	4	22.642	47.585	15.965	0.00	0.00
ATOM	58	O	LEU	X	4	23.660	48.117	16.386	0.00	0.00
ATOM	59	N	LEU	X	5	21.540	48.291	15.731	0.00	0.00
ATOM	60	H	LEU	X	5	20.690	47.759	15.609	0.00	0.00
ATOM	61	CA	LEU	X	5	21.362	49.676	15.956	0.00	0.00
ATOM	62	HA	LEU	X	5	22.357	50.111	16.052	0.00	0.00
ATOM	63	CB	LEU	X	5	20.525	50.290	14.814	0.00	0.00
ATOM	64	HB2	LEU	X	5	19.569	49.771	14.752	0.00	0.00
ATOM	65	HB3	LEU	X	5	20.326	51.323	15.102	0.00	0.00
ATOM	66	CG	LEU	X	5	21.202	50.387	13.440	0.00	0.00
ATOM	67	HG	LEU	X	5	20.386	50.756	12.818	0.00	0.00
ATOM	68	CD1	LEU	X	5	22.398	51.416	13.488	0.00	0.00
ATOM	69	HD11	LEU	X	5	23.278	51.011	13.989	0.00	0.00
ATOM	70	HD12	LEU	X	5	22.186	52.379	13.952	0.00	0.00
ATOM	71	HD13	LEU	X	5	22.721	51.560	12.457	0.00	0.00
ATOM	72	CD2	LEU	X	5	21.709	49.141	12.704	0.00	0.00
ATOM	73	HD21	LEU	X	5	22.607	48.747	13.181	0.00	0.00
ATOM	74	HD22	LEU	X	5	20.970	48.341	12.659	0.00	0.00
ATOM	75	HD23	LEU	X	5	21.867	49.465	11.675	0.00	0.00
ATOM	76	C	LEU	X	5	20.584	49.644	17.322	0.00	0.00
ATOM	77	O	LEU	X	5	19.575	48.965	17.457	0.00	0.00
ATOM	78	N	VAL	X	6	20.994	50.301	18.431	0.00	0.00
ATOM	79	H	VAL	X	6	21.655	51.045	18.258	0.00	0.00
ATOM	80	CA	VAL	X	6	20.280	50.366	19.714	0.00	0.00
ATOM	81	HA	VAL	X	6	19.216	50.157	19.603	0.00	0.00
ATOM	82	CB	VAL	X	6	20.800	49.214	20.595	0.00	0.00
ATOM	83	HB	VAL	X	6	20.758	48.264	20.061	0.00	0.00
ATOM	84	CG1	VAL	X	6	22.138	49.408	21.249	0.00	0.00
ATOM	85	HG11	VAL	X	6	22.768	49.833	20.467	0.00	0.00
ATOM	86	HG12	VAL	X	6	22.082	50.164	22.032	0.00	0.00
ATOM	87	HG13	VAL	X	6	22.524	48.476	21.662	0.00	0.00
ATOM	88	CG2	VAL	X	6	19.927	49.023	21.813	0.00	0.00
ATOM	89	HG21	VAL	X	6	20.086	49.839	22.519	0.00	0.00
ATOM	90	HG22	VAL	X	6	20.215	48.140	22.383	0.00	0.00
ATOM	91	HG23	VAL	X	6	18.871	48.875	21.584	0.00	0.00
ATOM	92	C	VAL	X	6	20.566	51.738	20.424	0.00	0.00
ATOM	93	O	VAL	X	6	21.649	52.296	20.274	0.00	0.00
ATOM	94	N	THR	X	7	19.610	52.254	21.223	0.00	0.00
ATOM	95	H	THR	X	7	18.712	51.808	21.098	0.00	0.00
ATOM	96	CA	THR	X	7	19.619	53.504	21.937	0.00	0.00
ATOM	97	HA	THR	X	7	20.462	54.050	21.515	0.00	0.00
ATOM	98	CB	THR	X	7	18.429	54.393	21.532	0.00	0.00
ATOM	99	HB	THR	X	7	17.564	54.117	22.135	0.00	0.00
ATOM	100	CG2	THR	X	7	18.736	55.847	21.797	0.00	0.00
ATOM	101	HG21	THR	X	7	19.808	56.019	21.894	0.00	0.00
ATOM	102	HG22	THR	X	7	18.307	56.102	22.767	0.00	0.00
ATOM	103	HG23	THR	X	7	18.375	56.466	20.976	0.00	0.00
ATOM	104	OG1	THR	X	7	18.174	54.147	20.193	0.00	0.00
ATOM	105	HG1	THR	X	7	17.331	54.592	20.075	0.00	0.00
ATOM	106	C	THR	X	7	19.937	53.460	23.475	0.00	0.00
ATOM	107	O	THR	X	7	19.290	52.856	24.302	0.00	0.00
ATOM	108	N	VAL	X	8	21.009	54.119	23.942	0.00	0.00
ATOM	109	H	VAL	X	8	21.580	54.684	23.329	0.00	0.00
ATOM	110	CA	VAL	X	8	21.261	54.349	25.442	0.00	0.00
ATOM	111	HA	VAL	X	8	20.669	53.688	26.075	0.00	0.00

ATOM	112	CB	VAL	X	8	22.694	53.989	25.848	0.00	0.00
ATOM	113	HB	VAL	X	8	22.787	54.233	26.906	0.00	0.00
ATOM	114	CG1	VAL	X	8	22.902	52.477	25.581	0.00	0.00
ATOM	115	HG11	VAL	X	8	23.861	52.114	25.953	0.00	0.00
ATOM	116	HG12	VAL	X	8	22.020	51.961	25.960	0.00	0.00
ATOM	117	HG13	VAL	X	8	23.022	52.377	24.502	0.00	0.00
ATOM	118	CG2	VAL	X	8	23.701	54.881	25.137	0.00	0.00
ATOM	119	HG21	VAL	X	8	23.685	54.519	24.109	0.00	0.00
ATOM	120	HG22	VAL	X	8	24.651	54.808	25.666	0.00	0.00
ATOM	121	HG23	VAL	X	8	23.477	55.938	25.280	0.00	0.00
ATOM	122	C	VAL	X	8	20.974	55.871	25.803	0.00	0.00
ATOM	123	O	VAL	X	8	20.761	56.701	24.908	0.00	0.00
ATOM	124	N	ARG	X	9	20.935	56.236	27.137	0.00	0.00
ATOM	125	H	ARG	X	9	21.155	55.521	27.816	0.00	0.00
ATOM	126	CA	ARG	X	9	20.838	57.537	27.627	0.00	0.00
ATOM	127	HA	ARG	X	9	19.863	57.932	27.341	0.00	0.00
ATOM	128	CB	ARG	X	9	20.951	57.611	29.174	0.00	0.00
ATOM	129	HB2	ARG	X	9	20.148	56.954	29.507	0.00	0.00
ATOM	130	HB3	ARG	X	9	21.916	57.165	29.413	0.00	0.00
ATOM	131	CG	ARG	X	9	20.690	58.975	29.802	0.00	0.00
ATOM	132	HG2	ARG	X	9	20.819	58.803	30.870	0.00	0.00
ATOM	133	HG3	ARG	X	9	21.515	59.645	29.565	0.00	0.00
ATOM	134	CD	ARG	X	9	19.368	59.657	29.492	0.00	0.00
ATOM	135	HD2	ARG	X	9	19.367	60.611	30.019	0.00	0.00
ATOM	136	HD3	ARG	X	9	19.241	59.806	28.420	0.00	0.00
ATOM	137	NE	ARG	X	9	18.328	58.910	30.161	0.00	0.00
ATOM	138	HE	ARG	X	9	18.644	58.406	30.977	0.00	0.00
ATOM	139	CZ	ARG	X	9	16.995	58.962	29.981	0.00	0.00
ATOM	140	NH1	ARG	X	9	16.473	59.872	29.175	0.00	0.00
ATOM	141	HH11	ARG	X	9	16.957	60.598	28.665	0.00	0.00
ATOM	142	HH12	ARG	X	9	15.470	59.830	29.063	0.00	0.00
ATOM	143	NH2	ARG	X	9	16.123	58.223	30.610	0.00	0.00
ATOM	144	HH21	ARG	X	9	16.619	57.537	31.161	0.00	0.00
ATOM	145	HH22	ARG	X	9	15.188	58.214	30.229	0.00	0.00
ATOM	146	C	ARG	X	9	21.801	58.568	26.950	0.00	0.00
ATOM	147	O	ARG	X	9	21.440	59.720	26.769	0.00	0.00
ATOM	148	N	GLY	X	10	23.023	58.198	26.628	0.00	0.00
ATOM	149	H	GLY	X	10	23.381	57.315	26.961	0.00	0.00
ATOM	150	CA	GLY	X	10	23.888	58.938	25.686	0.00	0.00
ATOM	151	HA2	GLY	X	10	24.128	59.897	26.145	0.00	0.00
ATOM	152	HA3	GLY	X	10	24.812	58.363	25.623	0.00	0.00
ATOM	153	C	GLY	X	10	23.339	59.157	24.272	0.00	0.00
ATOM	154	O	GLY	X	10	23.222	60.296	23.855	0.00	0.00
ATOM	155	N	GLY	X	11	23.068	58.103	23.515	0.00	0.00
ATOM	156	H	GLY	X	11	23.238	57.231	23.994	0.00	0.00
ATOM	157	CA	GLY	X	11	22.394	58.084	22.223	0.00	0.00
ATOM	158	HA2	GLY	X	11	21.364	58.391	22.401	0.00	0.00
ATOM	159	HA3	GLY	X	11	22.851	58.833	21.576	0.00	0.00
ATOM	160	C	GLY	X	11	22.518	56.735	21.533	0.00	0.00
ATOM	161	O	GLY	X	11	22.667	55.695	22.177	0.00	0.00
ATOM	162	N	ARG	X	12	22.309	56.707	20.187	0.00	0.00
ATOM	163	H	ARG	X	12	22.045	57.607	19.813	0.00	0.00
ATOM	164	CA	ARG	X	12	22.454	55.584	19.264	0.00	0.00
ATOM	165	HA	ARG	X	12	21.887	54.779	19.732	0.00	0.00
ATOM	166	CB	ARG	X	12	21.808	55.968	17.907	0.00	0.00
ATOM	167	HB2	ARG	X	12	21.071	56.771	17.922	0.00	0.00
ATOM	168	HB3	ARG	X	12	22.575	56.230	17.179	0.00	0.00
ATOM	169	CG	ARG	X	12	21.201	54.670	17.316	0.00	0.00
ATOM	170	HG2	ARG	X	12	21.898	53.837	17.233	0.00	0.00
ATOM	171	HG3	ARG	X	12	20.511	54.315	18.081	0.00	0.00
ATOM	172	CD	ARG	X	12	20.566	54.906	15.945	0.00	0.00
ATOM	173	HD2	ARG	X	12	20.036	55.855	16.025	0.00	0.00
ATOM	174	HD3	ARG	X	12	21.346	55.026	15.194	0.00	0.00
ATOM	175	NE	ARG	X	12	19.653	53.844	15.569	0.00	0.00
ATOM	176	HE	ARG	X	12	19.278	53.352	16.368	0.00	0.00
ATOM	177	CZ	ARG	X	12	19.136	53.476	14.342	0.00	0.00
ATOM	178	NH1	ARG	X	12	19.601	53.951	13.201	0.00	0.00

ATOM	179	HH11	ARG	X	12	20.282	54.696	13.156	0.00	0.00
ATOM	180	HH12	ARG	X	12	19.116	53.602	12.387	0.00	0.00
ATOM	181	NH2	ARG	X	12	18.247	52.534	14.469	0.00	0.00
ATOM	182	HH21	ARG	X	12	17.705	52.357	15.303	0.00	0.00
ATOM	183	HH22	ARG	X	12	18.036	52.115	13.575	0.00	0.00
ATOM	184	C	ARG	X	12	23.877	55.053	19.163	0.00	0.00
ATOM	185	O	ARG	X	12	24.824	55.767	18.828	0.00	0.00
ATOM	186	N	LEU	X	13	23.995	53.692	19.239	0.00	0.00
ATOM	187	H	LEU	X	13	23.151	53.168	19.423	0.00	0.00
ATOM	188	CA	LEU	X	13	25.206	52.852	19.120	0.00	0.00
ATOM	189	HA	LEU	X	13	26.014	53.557	18.928	0.00	0.00
ATOM	190	CB	LEU	X	13	25.442	52.116	20.393	0.00	0.00
ATOM	191	HB2	LEU	X	13	24.562	51.539	20.678	0.00	0.00
ATOM	192	HB3	LEU	X	13	26.099	51.263	20.223	0.00	0.00
ATOM	193	CG	LEU	X	13	25.821	52.937	21.574	0.00	0.00
ATOM	194	HG	LEU	X	13	25.048	53.693	21.709	0.00	0.00
ATOM	195	CD1	LEU	X	13	25.760	52.080	22.903	0.00	0.00
ATOM	196	HD11	LEU	X	13	24.768	51.653	23.051	0.00	0.00
ATOM	197	HD12	LEU	X	13	26.033	52.619	23.811	0.00	0.00
ATOM	198	HD13	LEU	X	13	26.510	51.290	22.858	0.00	0.00
ATOM	199	CD2	LEU	X	13	27.157	53.622	21.494	0.00	0.00
ATOM	200	HD21	LEU	X	13	26.953	54.234	20.616	0.00	0.00
ATOM	201	HD22	LEU	X	13	27.451	54.318	22.280	0.00	0.00
ATOM	202	HD23	LEU	X	13	27.997	52.935	21.392	0.00	0.00
ATOM	203	C	LEU	X	13	25.001	51.824	17.941	0.00	0.00
ATOM	204	O	LEU	X	13	23.885	51.433	17.605	0.00	0.00
ATOM	205	N	ARG	X	14	26.120	51.435	17.384	0.00	0.00
ATOM	206	H	ARG	X	14	27.010	51.784	17.710	0.00	0.00
ATOM	207	CA	ARG	X	14	26.045	50.403	16.265	0.00	0.00
ATOM	208	HA	ARG	X	14	25.085	49.910	16.114	0.00	0.00
ATOM	209	CB	ARG	X	14	26.321	51.119	14.929	0.00	0.00
ATOM	210	HB2	ARG	X	14	25.620	51.949	14.844	0.00	0.00
ATOM	211	HB3	ARG	X	14	27.372	51.405	14.951	0.00	0.00
ATOM	212	CG	ARG	X	14	26.079	50.082	13.787	0.00	0.00
ATOM	213	HG2	ARG	X	14	26.819	49.283	13.755	0.00	0.00
ATOM	214	HG3	ARG	X	14	25.081	49.671	13.938	0.00	0.00
ATOM	215	CD	ARG	X	14	26.087	50.655	12.347	0.00	0.00
ATOM	216	HD2	ARG	X	14	25.298	51.403	12.278	0.00	0.00
ATOM	217	HD3	ARG	X	14	27.055	51.136	12.204	0.00	0.00
ATOM	218	NE	ARG	X	14	25.846	49.527	11.421	0.00	0.00
ATOM	219	HE	ARG	X	14	25.251	48.818	11.825	0.00	0.00
ATOM	220	CZ	ARG	X	14	26.263	49.317	10.236	0.00	0.00
ATOM	221	NH1	ARG	X	14	26.727	50.207	9.356	0.00	0.00
ATOM	222	HH11	ARG	X	14	26.869	51.163	9.651	0.00	0.00
ATOM	223	HH12	ARG	X	14	26.986	49.867	8.441	0.00	0.00
ATOM	224	NH2	ARG	X	14	26.180	48.093	9.850	0.00	0.00
ATOM	225	HH21	ARG	X	14	25.772	47.385	10.444	0.00	0.00
ATOM	226	HH22	ARG	X	14	26.392	47.845	8.894	0.00	0.00
ATOM	227	C	ARG	X	14	27.111	49.286	16.515	0.00	0.00
ATOM	228	O	ARG	X	14	28.348	49.478	16.662	0.00	0.00
ATOM	229	N	GLY	X	15	26.551	48.089	16.665	0.00	0.00
ATOM	230	H	GLY	X	15	25.543	48.085	16.598	0.00	0.00
ATOM	231	CA	GLY	X	15	27.172	46.864	17.117	0.00	0.00
ATOM	232	HA2	GLY	X	15	28.052	47.047	17.733	0.00	0.00
ATOM	233	HA3	GLY	X	15	26.442	46.269	17.665	0.00	0.00
ATOM	234	C	GLY	X	15	27.571	45.889	16.021	0.00	0.00
ATOM	235	O	GLY	X	15	27.555	46.296	14.819	0.00	0.00
ATOM	236	N	ILE	X	16	27.902	44.584	16.236	0.00	0.00
ATOM	237	H	ILE	X	16	28.022	44.274	17.190	0.00	0.00
ATOM	238	CA	ILE	X	16	28.212	43.569	15.224	0.00	0.00
ATOM	239	HA	ILE	X	16	27.868	43.925	14.252	0.00	0.00
ATOM	240	CB	ILE	X	16	29.682	43.317	15.115	0.00	0.00
ATOM	241	HB	ILE	X	16	29.843	42.458	14.463	0.00	0.00
ATOM	242	CG2	ILE	X	16	30.383	44.535	14.521	0.00	0.00
ATOM	243	HG21	ILE	X	16	29.798	44.957	13.703	0.00	0.00
ATOM	244	HG22	ILE	X	16	31.295	44.181	14.040	0.00	0.00
ATOM	245	HG23	ILE	X	16	30.516	45.346	15.236	0.00	0.00

ATOM	246	CG1	ILE	X	16	30.441	42.960	16.444	0.00	0.00
ATOM	247	HG12	ILE	X	16	30.399	43.779	17.162	0.00	0.00
ATOM	248	HG13	ILE	X	16	29.961	42.064	16.838	0.00	0.00
ATOM	249	CD1	ILE	X	16	31.907	42.549	16.227	0.00	0.00
ATOM	250	HD11	ILE	X	16	32.402	42.393	17.185	0.00	0.00
ATOM	251	HD12	ILE	X	16	32.500	43.249	15.638	0.00	0.00
ATOM	252	HD13	ILE	X	16	31.965	41.592	15.708	0.00	0.00
ATOM	253	C	ILE	X	16	27.529	42.215	15.616	0.00	0.00
ATOM	254	O	ILE	X	16	27.385	41.891	16.789	0.00	0.00
ATOM	255	N	ARG	X	17	27.101	41.432	14.573	0.00	0.00
ATOM	256	H	ARG	X	17	27.025	41.802	13.636	0.00	0.00
ATOM	257	CA	ARG	X	17	26.742	40.017	14.845	0.00	0.00
ATOM	258	HA	ARG	X	17	26.023	39.960	15.662	0.00	0.00
ATOM	259	CB	ARG	X	17	25.872	39.458	13.708	0.00	0.00
ATOM	260	HB2	ARG	X	17	25.258	40.259	13.296	0.00	0.00
ATOM	261	HB3	ARG	X	17	26.593	39.155	12.949	0.00	0.00
ATOM	262	CG	ARG	X	17	25.000	38.306	14.124	0.00	0.00
ATOM	263	HG2	ARG	X	17	25.623	37.444	14.360	0.00	0.00
ATOM	264	HG3	ARG	X	17	24.366	38.545	14.978	0.00	0.00
ATOM	265	CD	ARG	X	17	24.083	37.767	13.030	0.00	0.00
ATOM	266	HD2	ARG	X	17	23.567	36.879	13.396	0.00	0.00
ATOM	267	HD3	ARG	X	17	23.366	38.496	12.653	0.00	0.00
ATOM	268	NE	ARG	X	17	24.844	37.298	11.848	0.00	0.00
ATOM	269	HE	ARG	X	17	25.837	37.123	11.907	0.00	0.00
ATOM	270	CZ	ARG	X	17	24.210	36.873	10.695	0.00	0.00
ATOM	271	NH1	ARG	X	17	22.923	36.784	10.637	0.00	0.00
ATOM	272	HH11	ARG	X	17	22.382	36.954	11.472	0.00	0.00
ATOM	273	HH12	ARG	X	17	22.483	36.531	9.764	0.00	0.00
ATOM	274	NH2	ARG	X	17	24.791	36.383	9.623	0.00	0.00
ATOM	275	HH21	ARG	X	17	25.763	36.130	9.730	0.00	0.00
ATOM	276	HH22	ARG	X	17	24.245	36.189	8.796	0.00	0.00
ATOM	277	C	ARG	X	17	27.974	39.166	15.110	0.00	0.00
ATOM	278	O	ARG	X	17	29.147	39.376	14.649	0.00	0.00
ATOM	279	N	LEU	X	18	27.756	38.145	15.963	0.00	0.00
ATOM	280	H	LEU	X	18	26.817	38.107	16.332	0.00	0.00
ATOM	281	CA	LEU	X	18	28.612	37.011	16.232	0.00	0.00
ATOM	282	HA	LEU	X	18	29.456	37.043	15.543	0.00	0.00
ATOM	283	CB	LEU	X	18	29.139	37.298	17.641	0.00	0.00
ATOM	284	HB2	LEU	X	18	28.360	37.688	18.297	0.00	0.00
ATOM	285	HB3	LEU	X	18	29.352	36.303	18.031	0.00	0.00
ATOM	286	CG	LEU	X	18	30.367	38.267	17.827	0.00	0.00
ATOM	287	HG	LEU	X	18	30.098	39.263	17.477	0.00	0.00
ATOM	288	CD1	LEU	X	18	30.605	38.502	19.313	0.00	0.00
ATOM	289	HD11	LEU	X	18	30.839	37.617	19.905	0.00	0.00
ATOM	290	HD12	LEU	X	18	29.706	39.001	19.675	0.00	0.00
ATOM	291	HD13	LEU	X	18	31.423	39.216	19.412	0.00	0.00
ATOM	292	CD2	LEU	X	18	31.556	37.731	16.997	0.00	0.00
ATOM	293	HD21	LEU	X	18	31.684	36.661	17.157	0.00	0.00
ATOM	294	HD22	LEU	X	18	31.322	37.849	15.939	0.00	0.00
ATOM	295	HD23	LEU	X	18	32.435	38.321	17.258	0.00	0.00
ATOM	296	C	LEU	X	18	27.893	35.724	15.995	0.00	0.00
ATOM	297	O	LEU	X	18	26.743	35.659	16.343	0.00	0.00
ATOM	298	N	LYS	X	19	28.568	34.728	15.405	0.00	0.00
ATOM	299	H	LYS	X	19	29.530	34.926	15.169	0.00	0.00
ATOM	300	CA	LYS	X	19	28.057	33.364	15.329	0.00	0.00
ATOM	301	HA	LYS	X	19	26.970	33.410	15.405	0.00	0.00
ATOM	302	CB	LYS	X	19	28.481	32.643	14.029	0.00	0.00
ATOM	303	HB2	LYS	X	19	29.570	32.613	14.049	0.00	0.00
ATOM	304	HB3	LYS	X	19	28.137	31.617	13.903	0.00	0.00
ATOM	305	CG	LYS	X	19	28.157	33.372	12.698	0.00	0.00
ATOM	306	HG2	LYS	X	19	27.102	33.626	12.603	0.00	0.00
ATOM	307	HG3	LYS	X	19	28.663	34.335	12.632	0.00	0.00
ATOM	308	CD	LYS	X	19	28.509	32.556	11.423	0.00	0.00
ATOM	309	HD2	LYS	X	19	28.144	33.127	10.570	0.00	0.00
ATOM	310	HD3	LYS	X	19	29.592	32.433	11.423	0.00	0.00
ATOM	311	CE	LYS	X	19	27.895	31.183	11.314	0.00	0.00
ATOM	312	HE2	LYS	X	19	28.361	30.432	11.952	0.00	0.00

ATOM	313	HE3	LYS	X	19	26.810	31.215	11.405	0.00	0.00
ATOM	314	NZ	LYS	X	19	28.070	30.675	9.925	0.00	0.00
ATOM	315	HZ1	LYS	X	19	27.656	29.755	9.876	0.00	0.00
ATOM	316	HZ2	LYS	X	19	27.556	31.173	9.213	0.00	0.00
ATOM	317	HZ3	LYS	X	19	29.040	30.602	9.652	0.00	0.00
ATOM	318	C	LYS	X	19	28.557	32.460	16.481	0.00	0.00
ATOM	319	O	LYS	X	19	29.487	32.792	17.195	0.00	0.00
ATOM	320	N	THR	X	20	27.882	31.344	16.503	0.00	0.00
ATOM	321	H	THR	X	20	27.122	31.238	15.846	0.00	0.00
ATOM	322	CA	THR	X	20	28.305	30.037	17.062	0.00	0.00
ATOM	323	HA	THR	X	20	29.393	29.968	17.073	0.00	0.00
ATOM	324	CB	THR	X	20	27.789	29.815	18.484	0.00	0.00
ATOM	325	HB	THR	X	20	28.309	28.942	18.877	0.00	0.00
ATOM	326	CG2	THR	X	20	28.147	31.011	19.435	0.00	0.00
ATOM	327	HG21	THR	X	20	27.782	30.850	20.449	0.00	0.00
ATOM	328	HG22	THR	X	20	27.686	31.922	19.054	0.00	0.00
ATOM	329	HG23	THR	X	20	29.237	31.021	19.463	0.00	0.00
ATOM	330	OG1	THR	X	20	26.479	29.477	18.485	0.00	0.00
ATOM	331	HG1	THR	X	20	26.093	30.314	18.214	0.00	0.00
ATOM	332	C	THR	X	20	27.795	28.930	16.124	0.00	0.00
ATOM	333	O	THR	X	20	26.982	29.251	15.303	0.00	0.00
ATOM	334	N	PRO	X	21	28.302	27.705	16.090	0.00	0.00
ATOM	335	CD	PRO	X	21	29.564	27.335	16.696	0.00	0.00
ATOM	336	HD2	PRO	X	21	29.298	27.179	17.741	0.00	0.00
ATOM	337	HD3	PRO	X	21	30.365	28.061	16.555	0.00	0.00
ATOM	338	CG	PRO	X	21	29.875	26.020	16.088	0.00	0.00
ATOM	339	HG2	PRO	X	21	30.525	25.392	16.698	0.00	0.00
ATOM	340	HG3	PRO	X	21	30.308	26.232	15.110	0.00	0.00
ATOM	341	CB	PRO	X	21	28.481	25.342	15.864	0.00	0.00
ATOM	342	HB2	PRO	X	21	28.102	24.944	16.806	0.00	0.00
ATOM	343	HB3	PRO	X	21	28.546	24.413	15.296	0.00	0.00
ATOM	344	CA	PRO	X	21	27.667	26.561	15.363	0.00	0.00
ATOM	345	HA	PRO	X	21	27.947	26.613	14.310	0.00	0.00
ATOM	346	C	PRO	X	21	26.149	26.438	15.510	0.00	0.00
ATOM	347	O	PRO	X	21	25.557	26.259	14.421	0.00	0.00
ATOM	348	N	GLY	X	22	25.587	26.553	16.733	0.00	0.00
ATOM	349	H	GLY	X	22	26.170	26.539	17.557	0.00	0.00
ATOM	350	CA	GLY	X	22	24.122	26.425	16.942	0.00	0.00
ATOM	351	HA2	GLY	X	22	23.740	25.808	16.128	0.00	0.00
ATOM	352	HA3	GLY	X	22	23.948	25.849	17.851	0.00	0.00
ATOM	353	C	GLY	X	22	23.335	27.702	17.104	0.00	0.00
ATOM	354	O	GLY	X	22	22.156	27.612	17.469	0.00	0.00
ATOM	355	N	GLY	X	23	23.790	28.840	16.583	0.00	0.00
ATOM	356	H	GLY	X	23	24.742	28.790	16.248	0.00	0.00
ATOM	357	CA	GLY	X	23	23.056	30.097	16.367	0.00	0.00
ATOM	358	HA2	GLY	X	23	22.823	30.133	15.303	0.00	0.00
ATOM	359	HA3	GLY	X	23	22.168	30.203	16.990	0.00	0.00
ATOM	360	C	GLY	X	23	23.863	31.373	16.739	0.00	0.00
ATOM	361	O	GLY	X	23	24.904	31.310	17.360	0.00	0.00
ATOM	362	N	PRO	X	24	23.436	32.522	16.208	0.00	0.00
ATOM	363	CD	PRO	X	24	22.328	32.662	15.304	0.00	0.00
ATOM	364	HD2	PRO	X	24	21.391	32.277	15.707	0.00	0.00
ATOM	365	HD3	PRO	X	24	22.538	32.160	14.359	0.00	0.00
ATOM	366	CG	PRO	X	24	22.165	34.145	15.045	0.00	0.00
ATOM	367	HG2	PRO	X	24	21.500	34.577	15.793	0.00	0.00
ATOM	368	HG3	PRO	X	24	21.901	34.363	14.010	0.00	0.00
ATOM	369	CB	PRO	X	24	23.612	34.642	15.171	0.00	0.00
ATOM	370	HB2	PRO	X	24	23.581	35.719	15.334	0.00	0.00
ATOM	371	HB3	PRO	X	24	24.278	34.399	14.343	0.00	0.00
ATOM	372	CA	PRO	X	24	24.105	33.830	16.376	0.00	0.00
ATOM	373	HA	PRO	X	24	25.186	33.707	16.324	0.00	0.00
ATOM	374	C	PRO	X	24	23.797	34.600	17.761	0.00	0.00
ATOM	375	O	PRO	X	24	22.847	34.248	18.460	0.00	0.00
ATOM	376	N	VAL	X	25	24.642	35.627	18.047	0.00	0.00
ATOM	377	H	VAL	X	25	25.370	35.722	17.354	0.00	0.00
ATOM	378	CA	VAL	X	25	24.687	36.414	19.245	0.00	0.00
ATOM	379	HA	VAL	X	25	23.763	36.387	19.823	0.00	0.00

ATOM	380	CB	VAL	X	25	25.747	35.803	20.194	0.00	0.00
ATOM	381	HB	VAL	X	25	26.485	35.390	19.507	0.00	0.00
ATOM	382	CG1	VAL	X	25	26.432	36.762	21.206	0.00	0.00
ATOM	383	HG11	VAL	X	25	25.754	37.478	21.671	0.00	0.00
ATOM	384	HG12	VAL	X	25	26.973	36.186	21.956	0.00	0.00
ATOM	385	HG13	VAL	X	25	27.113	37.305	20.551	0.00	0.00
ATOM	386	CG2	VAL	X	25	25.123	34.754	21.021	0.00	0.00
ATOM	387	HG21	VAL	X	25	25.899	34.344	21.666	0.00	0.00
ATOM	388	HG22	VAL	X	25	24.674	33.934	20.461	0.00	0.00
ATOM	389	HG23	VAL	X	25	24.366	35.196	21.670	0.00	0.00
ATOM	390	C	VAL	X	25	24.960	37.886	18.843	0.00	0.00
ATOM	391	O	VAL	X	25	25.321	38.111	17.689	0.00	0.00
ATOM	392	N	SER	X	26	24.668	38.956	19.505	0.00	0.00
ATOM	393	H	SER	X	26	24.349	38.839	20.456	0.00	0.00
ATOM	394	CA	SER	X	26	24.968	40.349	19.141	0.00	0.00
ATOM	395	HA	SER	X	26	25.503	40.528	18.207	0.00	0.00
ATOM	396	CB	SER	X	26	23.735	41.205	18.865	0.00	0.00
ATOM	397	HB2	SER	X	26	24.075	42.239	18.925	0.00	0.00
ATOM	398	HB3	SER	X	26	23.441	41.088	17.822	0.00	0.00
ATOM	399	OG	SER	X	26	22.651	41.116	19.816	0.00	0.00
ATOM	400	HG	SER	X	26	22.381	40.197	19.876	0.00	0.00
ATOM	401	C	SER	X	26	25.878	41.045	20.177	0.00	0.00
ATOM	402	O	SER	X	26	25.676	40.808	21.380	0.00	0.00
ATOM	403	N	ALA	X	27	26.889	41.738	19.690	0.00	0.00
ATOM	404	H	ALA	X	27	26.950	41.886	18.693	0.00	0.00
ATOM	405	CA	ALA	X	27	27.787	42.463	20.554	0.00	0.00
ATOM	406	HA	ALA	X	27	27.504	42.343	21.600	0.00	0.00
ATOM	407	CB	ALA	X	27	29.178	41.802	20.364	0.00	0.00
ATOM	408	HB1	ALA	X	27	29.163	40.722	20.508	0.00	0.00
ATOM	409	HB2	ALA	X	27	29.993	42.195	20.971	0.00	0.00
ATOM	410	HB3	ALA	X	27	29.454	41.882	19.313	0.00	0.00
ATOM	411	C	ALA	X	27	27.919	43.923	20.123	0.00	0.00
ATOM	412	O	ALA	X	27	27.954	44.304	18.968	0.00	0.00
ATOM	413	N	PHE	X	28	28.122	44.626	21.187	0.00	0.00
ATOM	414	H	PHE	X	28	28.212	44.118	22.055	0.00	0.00
ATOM	415	CA	PHE	X	28	28.251	46.080	21.289	0.00	0.00
ATOM	416	HA	PHE	X	28	28.321	46.526	20.297	0.00	0.00
ATOM	417	CB	PHE	X	28	26.953	46.658	21.903	0.00	0.00
ATOM	418	HB2	PHE	X	28	26.954	46.281	22.926	0.00	0.00
ATOM	419	HB3	PHE	X	28	27.128	47.733	21.960	0.00	0.00
ATOM	420	CG	PHE	X	28	25.751	46.372	21.081	0.00	0.00
ATOM	421	CD1	PHE	X	28	25.053	45.185	21.355	0.00	0.00
ATOM	422	HD1	PHE	X	28	25.463	44.579	22.149	0.00	0.00
ATOM	423	CE1	PHE	X	28	23.868	44.861	20.703	0.00	0.00
ATOM	424	HE1	PHE	X	28	23.315	43.966	20.946	0.00	0.00
ATOM	425	CZ	PHE	X	28	23.232	45.784	19.855	0.00	0.00
ATOM	426	HZ	PHE	X	28	22.265	45.614	19.405	0.00	0.00
ATOM	427	CE2	PHE	X	28	23.959	46.998	19.604	0.00	0.00
ATOM	428	HE2	PHE	X	28	23.589	47.702	18.873	0.00	0.00
ATOM	429	CD2	PHE	X	28	25.248	47.247	20.093	0.00	0.00
ATOM	430	HD2	PHE	X	28	25.765	48.166	19.861	0.00	0.00
ATOM	431	C	PHE	X	28	29.443	46.375	22.196	0.00	0.00
ATOM	432	O	PHE	X	28	29.467	46.085	23.378	0.00	0.00
ATOM	433	N	LEU	X	29	30.470	46.899	21.581	0.00	0.00
ATOM	434	H	LEU	X	29	30.255	47.267	20.665	0.00	0.00
ATOM	435	CA	LEU	X	29	31.822	46.894	22.092	0.00	0.00
ATOM	436	HA	LEU	X	29	31.902	46.584	23.134	0.00	0.00
ATOM	437	CB	LEU	X	29	32.643	45.894	21.234	0.00	0.00
ATOM	438	HB2	LEU	X	29	32.630	46.217	20.193	0.00	0.00
ATOM	439	HB3	LEU	X	29	33.720	45.978	21.380	0.00	0.00
ATOM	440	CG	LEU	X	29	32.059	44.462	21.190	0.00	0.00
ATOM	441	HG	LEU	X	29	31.035	44.540	20.825	0.00	0.00
ATOM	442	CD1	LEU	X	29	32.980	43.667	20.197	0.00	0.00
ATOM	443	HD11	LEU	X	29	32.810	44.014	19.178	0.00	0.00
ATOM	444	HD12	LEU	X	29	32.812	42.596	20.309	0.00	0.00
ATOM	445	HD13	LEU	X	29	34.009	43.700	20.556	0.00	0.00
ATOM	446	CD2	LEU	X	29	32.039	43.842	22.539	0.00	0.00

ATOM	447	HD21	LEU	X	29	31.287	44.364	23.130	0.00	0.00
ATOM	448	HD22	LEU	X	29	31.636	42.837	22.417	0.00	0.00
ATOM	449	HD23	LEU	X	29	32.957	43.790	23.124	0.00	0.00
ATOM	450	C	LEU	X	29	32.377	48.258	22.009	0.00	0.00
ATOM	451	O	LEU	X	29	32.030	48.963	21.091	0.00	0.00
ATOM	452	N	GLY	X	30	33.242	48.611	22.951	0.00	0.00
ATOM	453	H	GLY	X	30	33.459	47.924	23.658	0.00	0.00
ATOM	454	CA	GLY	X	30	33.962	49.902	22.914	0.00	0.00
ATOM	455	HA2	GLY	X	30	34.578	49.805	23.808	0.00	0.00
ATOM	456	HA3	GLY	X	30	34.546	50.051	22.006	0.00	0.00
ATOM	457	C	GLY	X	30	32.980	51.045	23.071	0.00	0.00
ATOM	458	O	GLY	X	30	33.002	52.036	22.324	0.00	0.00
ATOM	459	N	ILE	X	31	32.057	50.898	24.126	0.00	0.00
ATOM	460	H	ILE	X	31	32.200	50.049	24.654	0.00	0.00
ATOM	461	CA	ILE	X	31	31.002	51.844	24.515	0.00	0.00
ATOM	462	HA	ILE	X	31	30.787	52.448	23.633	0.00	0.00
ATOM	463	CB	ILE	X	31	29.658	51.237	25.009	0.00	0.00
ATOM	464	HB	ILE	X	31	29.826	51.009	26.061	0.00	0.00
ATOM	465	CG2	ILE	X	31	28.623	52.400	25.012	0.00	0.00
ATOM	466	HG21	ILE	X	31	27.637	52.053	25.322	0.00	0.00
ATOM	467	HG22	ILE	X	31	28.571	52.699	23.965	0.00	0.00
ATOM	468	HG23	ILE	X	31	28.962	53.210	25.657	0.00	0.00
ATOM	469	CG1	ILE	X	31	29.085	50.178	24.109	0.00	0.00
ATOM	470	HG12	ILE	X	31	28.782	50.597	23.149	0.00	0.00
ATOM	471	HG13	ILE	X	31	29.834	49.394	24.000	0.00	0.00
ATOM	472	CD1	ILE	X	31	27.907	49.381	24.825	0.00	0.00
ATOM	473	HD11	ILE	X	31	28.118	49.126	25.863	0.00	0.00
ATOM	474	HD12	ILE	X	31	27.783	48.481	24.223	0.00	0.00
ATOM	475	HD13	ILE	X	31	27.051	50.052	24.753	0.00	0.00
ATOM	476	C	ILE	X	31	31.572	52.720	25.599	0.00	0.00
ATOM	477	O	ILE	X	31	31.962	52.223	26.697	0.00	0.00
ATOM	478	N	PRO	X	32	31.632	54.041	25.373	0.00	0.00
ATOM	479	CD	PRO	X	32	31.246	54.771	24.174	0.00	0.00
ATOM	480	HD2	PRO	X	32	30.158	54.759	24.099	0.00	0.00
ATOM	481	HD3	PRO	X	32	31.736	54.381	23.282	0.00	0.00
ATOM	482	CG	PRO	X	32	31.624	56.263	24.377	0.00	0.00
ATOM	483	HG2	PRO	X	32	30.782	56.855	24.735	0.00	0.00
ATOM	484	HG3	PRO	X	32	32.150	56.624	23.494	0.00	0.00
ATOM	485	CB	PRO	X	32	32.554	56.173	25.577	0.00	0.00
ATOM	486	HB2	PRO	X	32	32.376	57.041	26.212	0.00	0.00
ATOM	487	HB3	PRO	X	32	33.611	56.168	25.310	0.00	0.00
ATOM	488	CA	PRO	X	32	32.206	54.910	26.421	0.00	0.00
ATOM	489	HA	PRO	X	32	33.144	54.456	26.739	0.00	0.00
ATOM	490	C	PRO	X	32	31.184	55.041	27.555	0.00	0.00
ATOM	491	O	PRO	X	32	30.061	55.465	27.371	0.00	0.00
ATOM	492	N	PHE	X	33	31.672	54.797	28.772	0.00	0.00
ATOM	493	H	PHE	X	33	32.608	54.453	28.936	0.00	0.00
ATOM	494	CA	PHE	X	33	30.848	55.057	29.964	0.00	0.00
ATOM	495	HA	PHE	X	33	29.838	55.310	29.643	0.00	0.00
ATOM	496	CB	PHE	X	33	30.692	53.760	30.755	0.00	0.00
ATOM	497	HB2	PHE	X	33	29.836	53.748	31.429	0.00	0.00
ATOM	498	HB3	PHE	X	33	30.373	52.955	30.093	0.00	0.00
ATOM	499	CG	PHE	X	33	31.958	53.357	31.502	0.00	0.00
ATOM	500	CD1	PHE	X	33	32.149	53.909	32.735	0.00	0.00
ATOM	501	HD1	PHE	X	33	31.397	54.621	33.044	0.00	0.00
ATOM	502	CE1	PHE	X	33	33.315	53.601	33.421	0.00	0.00
ATOM	503	HE1	PHE	X	33	33.444	54.090	34.376	0.00	0.00
ATOM	504	CZ	PHE	X	33	34.178	52.540	32.971	0.00	0.00
ATOM	505	HZ	PHE	X	33	35.046	52.228	33.534	0.00	0.00
ATOM	506	CE2	PHE	X	33	33.979	52.006	31.645	0.00	0.00
ATOM	507	HE2	PHE	X	33	34.645	51.277	31.208	0.00	0.00
ATOM	508	CD2	PHE	X	33	32.866	52.434	30.944	0.00	0.00
ATOM	509	HD2	PHE	X	33	32.723	52.045	29.947	0.00	0.00
ATOM	510	C	PHE	X	33	31.224	56.248	30.842	0.00	0.00
ATOM	511	O	PHE	X	33	30.479	56.537	31.821	0.00	0.00
ATOM	512	N	ALA	X	34	32.222	56.975	30.494	0.00	0.00
ATOM	513	H	ALA	X	34	32.821	56.646	29.751	0.00	0.00

ATOM	514	CA	ALA	X	34	32.717	58.091	31.269	0.00	0.00
ATOM	515	HA	ALA	X	34	31.839	58.556	31.717	0.00	0.00
ATOM	516	CB	ALA	X	34	33.591	57.585	32.419	0.00	0.00
ATOM	517	HB1	ALA	X	34	34.511	57.217	31.965	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.226	56.687	32.918	0.00	0.00
ATOM	519	HB3	ALA	X	34	33.801	58.430	33.075	0.00	0.00
ATOM	520	C	ALA	X	34	33.448	59.104	30.302	0.00	0.00
ATOM	521	O	ALA	X	34	33.863	58.708	29.199	0.00	0.00
ATOM	522	N	GLU	X	35	33.678	60.325	30.732	0.00	0.00
ATOM	523	H	GLU	X	35	33.315	60.620	31.627	0.00	0.00
ATOM	524	CA	GLU	X	35	34.694	61.203	30.071	0.00	0.00
ATOM	525	HA	GLU	X	35	34.397	61.300	29.027	0.00	0.00
ATOM	526	CB	GLU	X	35	34.643	62.580	30.684	0.00	0.00
ATOM	527	HB2	GLU	X	35	34.838	62.466	31.750	0.00	0.00
ATOM	528	HB3	GLU	X	35	35.392	63.211	30.204	0.00	0.00
ATOM	529	CG	GLU	X	35	33.416	63.330	30.490	0.00	0.00
ATOM	530	HG2	GLU	X	35	32.684	62.578	30.783	0.00	0.00
ATOM	531	HG3	GLU	X	35	33.357	64.185	31.164	0.00	0.00
ATOM	532	CD	GLU	X	35	33.257	63.870	29.140	0.00	0.00
ATOM	533	OE1	GLU	X	35	32.451	63.271	28.408	0.00	0.00
ATOM	534	OE2	GLU	X	35	33.947	64.865	28.827	0.00	0.00
ATOM	535	C	GLU	X	35	36.077	60.609	30.289	0.00	0.00
ATOM	536	O	GLU	X	35	36.281	59.942	31.282	0.00	0.00
ATOM	537	N	PRO	X	36	37.089	60.820	29.416	0.00	0.00
ATOM	538	CD	PRO	X	36	37.013	61.748	28.293	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.434	62.640	28.532	0.00	0.00
ATOM	540	HD3	PRO	X	36	36.568	61.285	27.413	0.00	0.00
ATOM	541	CG	PRO	X	36	38.406	62.111	27.973	0.00	0.00
ATOM	542	HG2	PRO	X	36	38.666	62.913	28.664	0.00	0.00
ATOM	543	HG3	PRO	X	36	38.516	62.386	26.925	0.00	0.00
ATOM	544	CB	PRO	X	36	39.156	60.892	28.357	0.00	0.00
ATOM	545	HB2	PRO	X	36	40.215	61.109	28.496	0.00	0.00
ATOM	546	HB3	PRO	X	36	39.266	60.219	27.508	0.00	0.00
ATOM	547	CA	PRO	X	36	38.440	60.229	29.543	0.00	0.00
ATOM	548	HA	PRO	X	36	38.377	59.170	29.296	0.00	0.00
ATOM	549	C	PRO	X	36	39.110	60.576	30.853	0.00	0.00
ATOM	550	O	PRO	X	36	39.146	61.784	31.310	0.00	0.00
ATOM	551	N	PRO	X	37	39.820	59.639	31.544	0.00	0.00
ATOM	552	CD	PRO	X	37	39.836	58.192	31.241	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.405	57.968	30.338	0.00	0.00
ATOM	554	HD3	PRO	X	37	38.779	57.928	31.227	0.00	0.00
ATOM	555	CG	PRO	X	37	40.510	57.570	32.429	0.00	0.00
ATOM	556	HG2	PRO	X	37	41.598	57.530	32.370	0.00	0.00
ATOM	557	HG3	PRO	X	37	40.171	56.587	32.757	0.00	0.00
ATOM	558	CB	PRO	X	37	40.136	58.485	33.542	0.00	0.00
ATOM	559	HB2	PRO	X	37	40.523	58.365	34.554	0.00	0.00
ATOM	560	HB3	PRO	X	37	39.060	58.314	33.588	0.00	0.00
ATOM	561	CA	PRO	X	37	40.329	59.904	32.929	0.00	0.00
ATOM	562	HA	PRO	X	37	39.712	60.630	33.459	0.00	0.00
ATOM	563	C	PRO	X	37	41.793	60.306	32.988	0.00	0.00
ATOM	564	O	PRO	X	37	42.440	60.237	34.035	0.00	0.00
ATOM	565	N	MET	X	38	42.252	60.797	31.832	0.00	0.00
ATOM	566	H	MET	X	38	41.642	60.797	31.027	0.00	0.00
ATOM	567	CA	MET	X	38	43.587	61.258	31.535	0.00	0.00
ATOM	568	HA	MET	X	38	44.228	60.529	32.031	0.00	0.00
ATOM	569	CB	MET	X	38	43.711	61.377	30.007	0.00	0.00
ATOM	570	HB2	MET	X	38	44.764	61.272	29.748	0.00	0.00
ATOM	571	HB3	MET	X	38	43.213	60.527	29.540	0.00	0.00
ATOM	572	CG	MET	X	38	43.032	62.607	29.419	0.00	0.00
ATOM	573	HG2	MET	X	38	42.072	62.610	29.936	0.00	0.00
ATOM	574	HG3	MET	X	38	43.533	63.500	29.792	0.00	0.00
ATOM	575	SD	MET	X	38	42.750	62.542	27.649	0.00	0.00
ATOM	576	CE	MET	X	38	41.683	64.049	27.560	0.00	0.00
ATOM	577	HE1	MET	X	38	42.326	64.930	27.562	0.00	0.00
ATOM	578	HE2	MET	X	38	41.127	64.171	26.630	0.00	0.00
ATOM	579	HE3	MET	X	38	41.002	64.154	28.405	0.00	0.00
ATOM	580	C	MET	X	38	43.971	62.508	32.300	0.00	0.00

ATOM	581	O	MET	X	38	43.212	63.253	32.935	0.00	0.00
ATOM	582	N	GLY	X	39	45.298	62.927	32.185	0.00	0.00
ATOM	583	H	GLY	X	39	45.841	62.384	31.530	0.00	0.00
ATOM	584	CA	GLY	X	39	45.945	64.186	32.774	0.00	0.00
ATOM	585	HA2	GLY	X	39	47.009	63.959	32.839	0.00	0.00
ATOM	586	HA3	GLY	X	39	45.732	64.944	32.020	0.00	0.00
ATOM	587	C	GLY	X	39	45.318	64.645	34.098	0.00	0.00
ATOM	588	O	GLY	X	39	45.723	63.955	35.085	0.00	0.00
ATOM	589	N	PRO	X	40	44.498	65.686	34.227	0.00	0.00
ATOM	590	CD	PRO	X	40	43.833	66.486	33.168	0.00	0.00
ATOM	591	HD2	PRO	X	40	43.153	65.752	32.735	0.00	0.00
ATOM	592	HD3	PRO	X	40	44.531	66.937	32.463	0.00	0.00
ATOM	593	CG	PRO	X	40	43.163	67.708	33.901	0.00	0.00
ATOM	594	HG2	PRO	X	40	42.104	67.586	33.672	0.00	0.00
ATOM	595	HG3	PRO	X	40	43.455	68.681	33.506	0.00	0.00
ATOM	596	CB	PRO	X	40	43.370	67.546	35.440	0.00	0.00
ATOM	597	HB2	PRO	X	40	42.383	67.571	35.902	0.00	0.00
ATOM	598	HB3	PRO	X	40	44.053	68.342	35.734	0.00	0.00
ATOM	599	CA	PRO	X	40	44.125	66.200	35.571	0.00	0.00
ATOM	600	HA	PRO	X	40	45.023	66.294	36.183	0.00	0.00
ATOM	601	C	PRO	X	40	43.197	65.269	36.362	0.00	0.00
ATOM	602	O	PRO	X	40	42.811	65.676	37.414	0.00	0.00
ATOM	603	N	ARG	X	41	42.733	64.137	35.781	0.00	0.00
ATOM	604	H	ARG	X	41	42.946	63.853	34.835	0.00	0.00
ATOM	605	CA	ARG	X	41	41.905	63.135	36.450	0.00	0.00
ATOM	606	HA	ARG	X	41	41.369	63.516	37.319	0.00	0.00
ATOM	607	CB	ARG	X	41	40.742	62.816	35.529	0.00	0.00
ATOM	608	HB2	ARG	X	41	41.045	62.200	34.683	0.00	0.00
ATOM	609	HB3	ARG	X	41	40.068	62.106	36.009	0.00	0.00
ATOM	610	CG	ARG	X	41	39.891	64.016	34.968	0.00	0.00
ATOM	611	HG2	ARG	X	41	39.454	64.495	35.844	0.00	0.00
ATOM	612	HG3	ARG	X	41	40.515	64.734	34.436	0.00	0.00
ATOM	613	CD	ARG	X	41	38.793	63.456	34.070	0.00	0.00
ATOM	614	HD2	ARG	X	41	39.360	63.378	33.142	0.00	0.00
ATOM	615	HD3	ARG	X	41	38.324	62.561	34.477	0.00	0.00
ATOM	616	NE	ARG	X	41	37.768	64.482	33.825	0.00	0.00
ATOM	617	HE	ARG	X	41	37.281	64.879	34.616	0.00	0.00
ATOM	618	CZ	ARG	X	41	37.315	65.007	32.700	0.00	0.00
ATOM	619	NH1	ARG	X	41	37.692	64.633	31.508	0.00	0.00
ATOM	620	HH11	ARG	X	41	38.270	63.809	31.422	0.00	0.00
ATOM	621	HH12	ARG	X	41	37.417	65.023	30.617	0.00	0.00
ATOM	622	NH2	ARG	X	41	36.343	65.821	32.808	0.00	0.00
ATOM	623	HH21	ARG	X	41	36.207	66.298	33.688	0.00	0.00
ATOM	624	HH22	ARG	X	41	36.022	66.273	31.964	0.00	0.00
ATOM	625	C	ARG	X	41	42.654	61.840	36.912	0.00	0.00
ATOM	626	O	ARG	X	41	42.219	61.041	37.695	0.00	0.00
ATOM	627	N	ARG	X	42	43.917	61.634	36.460	0.00	0.00
ATOM	628	H	ARG	X	42	44.269	62.276	35.764	0.00	0.00
ATOM	629	CA	ARG	X	42	44.839	60.521	36.853	0.00	0.00
ATOM	630	HA	ARG	X	42	44.340	59.585	36.599	0.00	0.00
ATOM	631	CB	ARG	X	42	46.170	60.575	36.124	0.00	0.00
ATOM	632	HB2	ARG	X	42	46.065	60.525	35.040	0.00	0.00
ATOM	633	HB3	ARG	X	42	46.569	61.524	36.480	0.00	0.00
ATOM	634	CG	ARG	X	42	47.060	59.326	36.519	0.00	0.00
ATOM	635	HG2	ARG	X	42	47.019	59.090	37.583	0.00	0.00
ATOM	636	HG3	ARG	X	42	46.718	58.351	36.173	0.00	0.00
ATOM	637	CD	ARG	X	42	48.557	59.532	36.121	0.00	0.00
ATOM	638	HD2	ARG	X	42	48.988	60.349	36.700	0.00	0.00
ATOM	639	HD3	ARG	X	42	49.115	58.634	36.388	0.00	0.00
ATOM	640	NE	ARG	X	42	48.802	59.686	34.649	0.00	0.00
ATOM	641	HE	ARG	X	42	48.204	59.347	33.910	0.00	0.00
ATOM	642	CZ	ARG	X	42	49.963	60.104	34.176	0.00	0.00
ATOM	643	NH1	ARG	X	42	50.942	60.567	34.926	0.00	0.00
ATOM	644	HH11	ARG	X	42	50.853	60.776	35.910	0.00	0.00
ATOM	645	HH12	ARG	X	42	51.781	60.915	34.485	0.00	0.00
ATOM	646	NH2	ARG	X	42	50.232	59.910	32.935	0.00	0.00
ATOM	647	HH21	ARG	X	42	49.479	59.616	32.329	0.00	0.00

ATOM	648	HH22	ARG	X	42	51.141	60.087	32.533	0.00	0.00
ATOM	649	C	ARG	X	42	44.998	60.468	38.437	0.00	0.00
ATOM	650	O	ARG	X	42	45.423	61.490	38.957	0.00	0.00
ATOM	651	N	PHE	X	43	44.622	59.347	39.155	0.00	0.00
ATOM	652	H	PHE	X	43	44.285	58.539	38.652	0.00	0.00
ATOM	653	CA	PHE	X	43	44.611	59.147	40.640	0.00	0.00
ATOM	654	HA	PHE	X	43	44.562	58.074	40.824	0.00	0.00
ATOM	655	CB	PHE	X	43	45.815	59.709	41.405	0.00	0.00
ATOM	656	HB2	PHE	X	43	45.695	60.787	41.507	0.00	0.00
ATOM	657	HB3	PHE	X	43	45.895	59.214	42.373	0.00	0.00
ATOM	658	CG	PHE	X	43	47.126	59.500	40.744	0.00	0.00
ATOM	659	CD1	PHE	X	43	47.409	58.176	40.388	0.00	0.00
ATOM	660	HD1	PHE	X	43	46.654	57.432	40.594	0.00	0.00
ATOM	661	CE1	PHE	X	43	48.704	57.878	39.928	0.00	0.00
ATOM	662	HE1	PHE	X	43	49.057	56.860	39.849	0.00	0.00
ATOM	663	CZ	PHE	X	43	49.639	58.854	39.643	0.00	0.00
ATOM	664	HZ	PHE	X	43	50.643	58.580	39.355	0.00	0.00
ATOM	665	CE2	PHE	X	43	49.260	60.178	39.802	0.00	0.00
ATOM	666	HE2	PHE	X	43	49.951	60.999	39.684	0.00	0.00
ATOM	667	CD2	PHE	X	43	47.995	60.517	40.433	0.00	0.00
ATOM	668	HD2	PHE	X	43	47.772	61.557	40.616	0.00	0.00
ATOM	669	C	PHE	X	43	43.305	59.783	41.230	0.00	0.00
ATOM	670	O	PHE	X	43	43.060	59.725	42.447	0.00	0.00
ATOM	671	N	LEU	X	44	42.368	60.317	40.449	0.00	0.00
ATOM	672	H	LEU	X	44	42.522	60.372	39.452	0.00	0.00
ATOM	673	CA	LEU	X	44	41.219	61.039	40.931	0.00	0.00
ATOM	674	HA	LEU	X	44	41.159	60.877	42.007	0.00	0.00
ATOM	675	CB	LEU	X	44	41.409	62.544	40.708	0.00	0.00
ATOM	676	HB2	LEU	X	44	41.763	62.579	39.678	0.00	0.00
ATOM	677	HB3	LEU	X	44	40.389	62.910	40.826	0.00	0.00
ATOM	678	CG	LEU	X	44	42.407	63.285	41.656	0.00	0.00
ATOM	679	HG	LEU	X	44	43.334	62.782	41.932	0.00	0.00
ATOM	680	CD1	LEU	X	44	42.692	64.612	41.041	0.00	0.00
ATOM	681	HD11	LEU	X	44	43.408	65.150	41.661	0.00	0.00
ATOM	682	HD12	LEU	X	44	41.843	65.222	40.733	0.00	0.00
ATOM	683	HD13	LEU	X	44	43.252	64.469	40.117	0.00	0.00
ATOM	684	CD2	LEU	X	44	41.649	63.390	42.981	0.00	0.00
ATOM	685	HD21	LEU	X	44	42.270	63.910	43.712	0.00	0.00
ATOM	686	HD22	LEU	X	44	40.683	63.872	42.834	0.00	0.00
ATOM	687	HD23	LEU	X	44	41.559	62.371	43.359	0.00	0.00
ATOM	688	C	LEU	X	44	39.845	60.551	40.306	0.00	0.00
ATOM	689	O	LEU	X	44	39.882	59.885	39.254	0.00	0.00
ATOM	690	N	PRO	X	45	38.657	60.766	40.955	0.00	0.00
ATOM	691	CD	PRO	X	45	38.555	61.541	42.150	0.00	0.00
ATOM	692	HD2	PRO	X	45	38.519	62.600	41.896	0.00	0.00
ATOM	693	HD3	PRO	X	45	39.328	61.318	42.885	0.00	0.00
ATOM	694	CG	PRO	X	45	37.203	61.099	42.744	0.00	0.00
ATOM	695	HG2	PRO	X	45	36.727	61.840	43.386	0.00	0.00
ATOM	696	HG3	PRO	X	45	37.463	60.174	43.258	0.00	0.00
ATOM	697	CB	PRO	X	45	36.408	60.703	41.533	0.00	0.00
ATOM	698	HB2	PRO	X	45	35.976	61.648	41.203	0.00	0.00
ATOM	699	HB3	PRO	X	45	35.589	60.038	41.809	0.00	0.00
ATOM	700	CA	PRO	X	45	37.389	60.134	40.571	0.00	0.00
ATOM	701	HA	PRO	X	45	37.441	59.069	40.798	0.00	0.00
ATOM	702	C	PRO	X	45	36.974	60.336	39.074	0.00	0.00
ATOM	703	O	PRO	X	45	37.361	61.445	38.553	0.00	0.00
ATOM	704	N	PRO	X	46	36.142	59.472	38.394	0.00	0.00
ATOM	705	CD	PRO	X	46	35.611	58.231	38.919	0.00	0.00
ATOM	706	HD2	PRO	X	46	35.154	58.248	39.908	0.00	0.00
ATOM	707	HD3	PRO	X	46	36.440	57.524	38.904	0.00	0.00
ATOM	708	CG	PRO	X	46	34.616	57.793	37.958	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.644	58.252	38.140	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.557	56.705	37.987	0.00	0.00
ATOM	711	CB	PRO	X	46	35.213	58.291	36.631	0.00	0.00
ATOM	712	HB2	PRO	X	46	34.466	58.437	35.852	0.00	0.00
ATOM	713	HB3	PRO	X	46	36.050	57.663	36.325	0.00	0.00
ATOM	714	CA	PRO	X	46	35.733	59.678	37.017	0.00	0.00

ATOM	715	HA	PRO	X	46	36.560	59.907	36.344	0.00	0.00
ATOM	716	C	PRO	X	46	34.582	60.803	36.927	0.00	0.00
ATOM	717	O	PRO	X	46	34.089	61.288	37.936	0.00	0.00
ATOM	718	N	GLU	X	47	34.111	61.108	35.688	0.00	0.00
ATOM	719	H	GLU	X	47	34.632	60.624	34.971	0.00	0.00
ATOM	720	CA	GLU	X	47	32.951	61.963	35.409	0.00	0.00
ATOM	721	HA	GLU	X	47	32.463	62.127	36.370	0.00	0.00
ATOM	722	CB	GLU	X	47	33.512	63.278	34.876	0.00	0.00
ATOM	723	HB2	GLU	X	47	34.269	63.031	34.131	0.00	0.00
ATOM	724	HB3	GLU	X	47	32.698	63.836	34.414	0.00	0.00
ATOM	725	CG	GLU	X	47	34.090	64.073	36.115	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.272	64.395	36.761	0.00	0.00
ATOM	727	HG3	GLU	X	47	34.798	63.544	36.753	0.00	0.00
ATOM	728	CD	GLU	X	47	34.855	65.284	35.751	0.00	0.00
ATOM	729	OE1	GLU	X	47	34.261	66.206	35.208	0.00	0.00
ATOM	730	OE2	GLU	X	47	36.113	65.320	35.883	0.00	0.00
ATOM	731	C	GLU	X	47	32.086	61.291	34.264	0.00	0.00
ATOM	732	O	GLU	X	47	32.629	60.690	33.319	0.00	0.00
ATOM	733	N	PRO	X	48	30.724	61.289	34.266	0.00	0.00
ATOM	734	CD	PRO	X	48	29.970	61.667	35.459	0.00	0.00
ATOM	735	HD2	PRO	X	48	29.908	62.742	35.628	0.00	0.00
ATOM	736	HD3	PRO	X	48	30.359	61.145	36.333	0.00	0.00
ATOM	737	CG	PRO	X	48	28.564	61.108	35.122	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.802	61.713	35.613	0.00	0.00
ATOM	739	HG3	PRO	X	48	28.468	60.081	35.472	0.00	0.00
ATOM	740	CB	PRO	X	48	28.442	61.207	33.630	0.00	0.00
ATOM	741	HB2	PRO	X	48	28.220	62.229	33.325	0.00	0.00
ATOM	742	HB3	PRO	X	48	27.671	60.511	33.299	0.00	0.00
ATOM	743	CA	PRO	X	48	29.809	60.831	33.185	0.00	0.00
ATOM	744	HA	PRO	X	48	29.832	59.741	33.165	0.00	0.00
ATOM	745	C	PRO	X	48	30.097	61.403	31.829	0.00	0.00
ATOM	746	O	PRO	X	48	30.507	62.523	31.650	0.00	0.00
ATOM	747	N	LYS	X	49	29.975	60.506	30.871	0.00	0.00
ATOM	748	H	LYS	X	49	29.711	59.578	31.172	0.00	0.00
ATOM	749	CA	LYS	X	49	30.253	60.707	29.352	0.00	0.00
ATOM	750	HA	LYS	X	49	31.281	61.059	29.267	0.00	0.00
ATOM	751	CB	LYS	X	49	29.971	59.427	28.615	0.00	0.00
ATOM	752	HB2	LYS	X	49	30.635	58.725	29.120	0.00	0.00
ATOM	753	HB3	LYS	X	49	29.003	59.039	28.931	0.00	0.00
ATOM	754	CG	LYS	X	49	30.211	59.420	27.086	0.00	0.00
ATOM	755	HG2	LYS	X	49	30.151	58.446	26.601	0.00	0.00
ATOM	756	HG3	LYS	X	49	29.445	60.049	26.634	0.00	0.00
ATOM	757	CD	LYS	X	49	31.637	59.854	26.710	0.00	0.00
ATOM	758	HD2	LYS	X	49	31.796	60.905	26.952	0.00	0.00
ATOM	759	HD3	LYS	X	49	32.420	59.272	27.195	0.00	0.00
ATOM	760	CE	LYS	X	49	31.925	59.748	25.217	0.00	0.00
ATOM	761	HE2	LYS	X	49	31.949	58.684	24.982	0.00	0.00
ATOM	762	HE3	LYS	X	49	31.124	60.129	24.583	0.00	0.00
ATOM	763	NZ	LYS	X	49	33.217	60.370	24.826	0.00	0.00
ATOM	764	HZ1	LYS	X	49	33.213	60.453	23.820	0.00	0.00
ATOM	765	HZ2	LYS	X	49	33.350	61.279	25.245	0.00	0.00
ATOM	766	HZ3	LYS	X	49	34.013	59.778	25.014	0.00	0.00
ATOM	767	C	LYS	X	49	29.314	61.756	28.788	0.00	0.00
ATOM	768	O	LYS	X	49	28.091	61.679	29.046	0.00	0.00
ATOM	769	N	GLN	X	50	29.732	62.772	28.028	0.00	0.00
ATOM	770	H	GLN	X	50	30.732	62.868	27.922	0.00	0.00
ATOM	771	CA	GLN	X	50	28.821	63.783	27.429	0.00	0.00
ATOM	772	HA	GLN	X	50	28.193	64.084	28.267	0.00	0.00
ATOM	773	CB	GLN	X	50	29.533	65.062	26.940	0.00	0.00
ATOM	774	HB2	GLN	X	50	30.370	64.733	26.324	0.00	0.00
ATOM	775	HB3	GLN	X	50	28.884	65.731	26.375	0.00	0.00
ATOM	776	CG	GLN	X	50	30.105	65.806	28.184	0.00	0.00
ATOM	777	HG2	GLN	X	50	29.356	66.197	28.873	0.00	0.00
ATOM	778	HG3	GLN	X	50	30.752	65.221	28.838	0.00	0.00
ATOM	779	CD	GLN	X	50	31.023	66.902	27.768	0.00	0.00
ATOM	780	OE1	GLN	X	50	30.589	67.967	27.426	0.00	0.00
ATOM	781	NE2	GLN	X	50	32.317	66.638	27.628	0.00	0.00

ATOM	782	HE21	GLN	X	50	32.849	67.444	27.334	0.00	0.00
ATOM	783	HE22	GLN	X	50	32.672	65.757	27.971	0.00	0.00
ATOM	784	C	GLN	X	50	27.923	63.004	26.453	0.00	0.00
ATOM	785	O	GLN	X	50	28.478	62.167	25.659	0.00	0.00
ATOM	786	N	PRO	X	51	26.590	63.190	26.397	0.00	0.00
ATOM	787	CD	PRO	X	51	25.860	64.226	27.162	0.00	0.00
ATOM	788	HD2	PRO	X	51	26.319	65.211	27.080	0.00	0.00
ATOM	789	HD3	PRO	X	51	26.007	63.901	28.191	0.00	0.00
ATOM	790	CG	PRO	X	51	24.469	64.215	26.532	0.00	0.00
ATOM	791	HG2	PRO	X	51	24.436	65.105	25.903	0.00	0.00
ATOM	792	HG3	PRO	X	51	23.624	64.363	27.204	0.00	0.00
ATOM	793	CB	PRO	X	51	24.265	62.932	25.767	0.00	0.00
ATOM	794	HB2	PRO	X	51	23.603	63.062	24.911	0.00	0.00
ATOM	795	HB3	PRO	X	51	23.953	62.141	26.449	0.00	0.00
ATOM	796	CA	PRO	X	51	25.687	62.485	25.421	0.00	0.00
ATOM	797	HA	PRO	X	51	25.741	61.397	25.425	0.00	0.00
ATOM	798	C	PRO	X	51	26.081	62.957	23.953	0.00	0.00
ATOM	799	O	PRO	X	51	26.968	63.763	23.807	0.00	0.00
ATOM	800	N	TRP	X	52	25.447	62.262	22.970	0.00	0.00
ATOM	801	H	TRP	X	52	24.818	61.507	23.203	0.00	0.00
ATOM	802	CA	TRP	X	52	25.858	62.530	21.545	0.00	0.00
ATOM	803	HA	TRP	X	52	26.231	63.545	21.410	0.00	0.00
ATOM	804	CB	TRP	X	52	26.921	61.499	21.134	0.00	0.00
ATOM	805	HB2	TRP	X	52	27.185	61.680	20.092	0.00	0.00
ATOM	806	HB3	TRP	X	52	27.751	61.673	21.818	0.00	0.00
ATOM	807	CG	TRP	X	52	26.451	60.032	21.181	0.00	0.00
ATOM	808	CD1	TRP	X	52	25.892	59.309	20.190	0.00	0.00
ATOM	809	HD1	TRP	X	52	25.477	59.662	19.258	0.00	0.00
ATOM	810	NE1	TRP	X	52	25.675	58.000	20.600	0.00	0.00
ATOM	811	HE1	TRP	X	52	25.178	57.302	20.065	0.00	0.00
ATOM	812	CE2	TRP	X	52	26.173	57.805	21.877	0.00	0.00
ATOM	813	CZ2	TRP	X	52	26.165	56.624	22.690	0.00	0.00
ATOM	814	HZ2	TRP	X	52	25.774	55.670	22.367	0.00	0.00
ATOM	815	CH2	TRP	X	52	26.811	56.716	23.897	0.00	0.00
ATOM	816	HH2	TRP	X	52	26.879	55.824	24.503	0.00	0.00
ATOM	817	CZ3	TRP	X	52	27.321	57.930	24.322	0.00	0.00
ATOM	818	HZ3	TRP	X	52	27.754	57.966	25.310	0.00	0.00
ATOM	819	CE3	TRP	X	52	27.097	59.177	23.596	0.00	0.00
ATOM	820	HE3	TRP	X	52	27.501	60.082	24.026	0.00	0.00
ATOM	821	CD2	TRP	X	52	26.566	59.089	22.270	0.00	0.00
ATOM	822	C	TRP	X	52	24.706	62.455	20.552	0.00	0.00
ATOM	823	O	TRP	X	52	23.687	61.710	20.684	0.00	0.00
ATOM	824	N	SER	X	53	24.929	63.248	19.501	0.00	0.00
ATOM	825	H	SER	X	53	25.729	63.863	19.508	0.00	0.00
ATOM	826	CA	SER	X	53	24.161	63.284	18.190	0.00	0.00
ATOM	827	HA	SER	X	53	23.199	62.806	18.374	0.00	0.00
ATOM	828	CB	SER	X	53	23.785	64.709	17.738	0.00	0.00
ATOM	829	HB2	SER	X	53	24.587	65.204	17.191	0.00	0.00
ATOM	830	HB3	SER	X	53	22.952	64.653	17.037	0.00	0.00
ATOM	831	OG	SER	X	53	23.403	65.581	18.846	0.00	0.00
ATOM	832	HG	SER	X	53	23.922	65.315	19.609	0.00	0.00
ATOM	833	C	SER	X	53	24.764	62.424	17.112	0.00	0.00
ATOM	834	O	SER	X	53	25.945	62.214	16.996	0.00	0.00
ATOM	835	N	GLY	X	54	23.793	61.922	16.354	0.00	0.00
ATOM	836	H	GLY	X	54	22.846	62.029	16.689	0.00	0.00
ATOM	837	CA	GLY	X	54	24.054	60.855	15.346	0.00	0.00
ATOM	838	HA2	GLY	X	54	23.165	60.656	14.747	0.00	0.00
ATOM	839	HA3	GLY	X	54	24.804	61.174	14.623	0.00	0.00
ATOM	840	C	GLY	X	54	24.485	59.526	15.943	0.00	0.00
ATOM	841	O	GLY	X	54	24.405	59.312	17.168	0.00	0.00
ATOM	842	N	VAL	X	55	24.812	58.547	15.102	0.00	0.00
ATOM	843	H	VAL	X	55	24.638	58.707	14.121	0.00	0.00
ATOM	844	CA	VAL	X	55	25.214	57.186	15.559	0.00	0.00
ATOM	845	HA	VAL	X	55	24.625	57.030	16.462	0.00	0.00
ATOM	846	CB	VAL	X	55	24.822	56.112	14.616	0.00	0.00
ATOM	847	HB	VAL	X	55	23.795	56.326	14.319	0.00	0.00
ATOM	848	CG1	VAL	X	55	25.656	55.899	13.316	0.00	0.00

ATOM	849	HG11	VAL	X	55	25.228	55.071	12.750	0.00	0.00
ATOM	850	HG12	VAL	X	55	25.617	56.809	12.716	0.00	0.00
ATOM	851	HG13	VAL	X	55	26.629	55.519	13.627	0.00	0.00
ATOM	852	CG2	VAL	X	55	24.868	54.784	15.400	0.00	0.00
ATOM	853	HG21	VAL	X	55	25.883	54.585	15.744	0.00	0.00
ATOM	854	HG22	VAL	X	55	24.637	53.919	14.779	0.00	0.00
ATOM	855	HG23	VAL	X	55	24.129	54.878	16.195	0.00	0.00
ATOM	856	C	VAL	X	55	26.705	57.099	15.834	0.00	0.00
ATOM	857	O	VAL	X	55	27.441	57.612	15.030	0.00	0.00
ATOM	858	N	VAL	X	56	27.082	56.390	16.940	0.00	0.00
ATOM	859	H	VAL	X	56	26.371	56.177	17.625	0.00	0.00
ATOM	860	CA	VAL	X	56	28.465	56.117	17.319	0.00	0.00
ATOM	861	HA	VAL	X	56	29.077	56.621	16.571	0.00	0.00
ATOM	862	CB	VAL	X	56	28.765	56.513	18.802	0.00	0.00
ATOM	863	HB	VAL	X	56	27.829	56.243	19.291	0.00	0.00
ATOM	864	CG1	VAL	X	56	29.792	55.704	19.526	0.00	0.00
ATOM	865	HG11	VAL	X	56	29.823	56.135	20.526	0.00	0.00
ATOM	866	HG12	VAL	X	56	29.594	54.634	19.591	0.00	0.00
ATOM	867	HG13	VAL	X	56	30.694	55.855	18.933	0.00	0.00
ATOM	868	CG2	VAL	X	56	28.951	58.059	18.747	0.00	0.00
ATOM	869	HG21	VAL	X	56	28.003	58.515	18.464	0.00	0.00
ATOM	870	HG22	VAL	X	56	29.685	58.282	17.972	0.00	0.00
ATOM	871	HG23	VAL	X	56	29.368	58.320	19.720	0.00	0.00
ATOM	872	C	VAL	X	56	28.779	54.564	17.049	0.00	0.00
ATOM	873	O	VAL	X	56	27.946	53.761	17.505	0.00	0.00
ATOM	874	N	ASP	X	57	29.856	54.153	16.365	0.00	0.00
ATOM	875	H	ASP	X	57	30.387	54.925	15.988	0.00	0.00
ATOM	876	CA	ASP	X	57	30.299	52.790	16.180	0.00	0.00
ATOM	877	HA	ASP	X	57	29.564	52.179	15.656	0.00	0.00
ATOM	878	CB	ASP	X	57	31.571	52.885	15.328	0.00	0.00
ATOM	879	HB2	ASP	X	57	31.342	53.435	14.416	0.00	0.00
ATOM	880	HB3	ASP	X	57	32.271	53.421	15.968	0.00	0.00
ATOM	881	CG	ASP	X	57	32.049	51.419	14.999	0.00	0.00
ATOM	882	OD1	ASP	X	57	31.851	51.026	13.849	0.00	0.00
ATOM	883	OD2	ASP	X	57	32.692	50.757	15.810	0.00	0.00
ATOM	884	C	ASP	X	57	30.678	52.133	17.508	0.00	0.00
ATOM	885	O	ASP	X	57	30.910	52.762	18.507	0.00	0.00
ATOM	886	N	ALA	X	58	30.464	50.801	17.649	0.00	0.00
ATOM	887	H	ALA	X	58	30.112	50.310	16.840	0.00	0.00
ATOM	888	CA	ALA	X	58	30.613	49.987	18.845	0.00	0.00
ATOM	889	HA	ALA	X	58	31.487	50.444	19.309	0.00	0.00
ATOM	890	CB	ALA	X	58	29.417	50.236	19.768	0.00	0.00
ATOM	891	HB1	ALA	X	58	29.167	51.297	19.775	0.00	0.00
ATOM	892	HB2	ALA	X	58	29.558	49.781	20.748	0.00	0.00
ATOM	893	HB3	ALA	X	58	28.524	49.761	19.361	0.00	0.00
ATOM	894	C	ALA	X	58	30.998	48.518	18.453	0.00	0.00
ATOM	895	O	ALA	X	58	30.475	47.514	18.925	0.00	0.00
ATOM	896	N	THR	X	59	31.843	48.385	17.469	0.00	0.00
ATOM	897	H	THR	X	59	32.374	49.223	17.277	0.00	0.00
ATOM	898	CA	THR	X	59	32.188	47.160	16.687	0.00	0.00
ATOM	899	HA	THR	X	59	31.478	46.368	16.922	0.00	0.00
ATOM	900	CB	THR	X	59	32.281	47.424	15.189	0.00	0.00
ATOM	901	HB	THR	X	59	32.443	46.411	14.823	0.00	0.00
ATOM	902	CG2	THR	X	59	30.931	48.053	14.577	0.00	0.00
ATOM	903	HG21	THR	X	59	31.014	47.948	13.495	0.00	0.00
ATOM	904	HG22	THR	X	59	30.665	49.058	14.904	0.00	0.00
ATOM	905	HG23	THR	X	59	30.054	47.437	14.778	0.00	0.00
ATOM	906	OG1	THR	X	59	33.262	48.322	14.884	0.00	0.00
ATOM	907	HG1	THR	X	59	32.917	49.163	15.194	0.00	0.00
ATOM	908	C	THR	X	59	33.398	46.436	17.175	0.00	0.00
ATOM	909	O	THR	X	59	33.692	45.317	16.749	0.00	0.00
ATOM	910	N	THR	X	60	34.178	47.086	17.999	0.00	0.00
ATOM	911	H	THR	X	60	33.927	48.022	18.283	0.00	0.00
ATOM	912	CA	THR	X	60	35.561	46.701	18.310	0.00	0.00
ATOM	913	HA	THR	X	60	35.619	45.614	18.364	0.00	0.00
ATOM	914	CB	THR	X	60	36.413	47.064	17.144	0.00	0.00
ATOM	915	HB	THR	X	60	35.928	46.921	16.178	0.00	0.00

ATOM	916	CG2	THR	X	60	36.841	48.524	17.251	0.00	0.00
ATOM	917	HG21	THR	X	60	37.641	48.704	17.970	0.00	0.00
ATOM	918	HG22	THR	X	60	35.992	49.171	17.468	0.00	0.00
ATOM	919	HG23	THR	X	60	37.231	48.887	16.300	0.00	0.00
ATOM	920	OG1	THR	X	60	37.538	46.248	17.211	0.00	0.00
ATOM	921	HG1	THR	X	60	37.675	45.786	16.381	0.00	0.00
ATOM	922	C	THR	X	60	36.106	47.121	19.660	0.00	0.00
ATOM	923	O	THR	X	60	35.640	48.077	20.201	0.00	0.00
ATOM	924	N	PHE	X	61	37.098	46.434	20.243	0.00	0.00
ATOM	925	H	PHE	X	61	37.578	45.814	19.606	0.00	0.00
ATOM	926	CA	PHE	X	61	37.729	46.800	21.531	0.00	0.00
ATOM	927	HA	PHE	X	61	37.008	47.142	22.274	0.00	0.00
ATOM	928	CB	PHE	X	61	38.578	45.617	22.051	0.00	0.00
ATOM	929	HB2	PHE	X	61	39.282	45.244	21.307	0.00	0.00
ATOM	930	HB3	PHE	X	61	39.123	45.804	22.977	0.00	0.00
ATOM	931	CG	PHE	X	61	37.636	44.478	22.369	0.00	0.00
ATOM	932	CD1	PHE	X	61	36.626	44.520	23.314	0.00	0.00
ATOM	933	HD1	PHE	X	61	36.526	45.422	23.899	0.00	0.00
ATOM	934	CE1	PHE	X	61	35.866	43.417	23.631	0.00	0.00
ATOM	935	HE1	PHE	X	61	35.114	43.526	24.399	0.00	0.00
ATOM	936	CZ	PHE	X	61	36.055	42.198	22.976	0.00	0.00
ATOM	937	HZ	PHE	X	61	35.435	41.354	23.238	0.00	0.00
ATOM	938	CE2	PHE	X	61	36.969	42.067	21.946	0.00	0.00
ATOM	939	HE2	PHE	X	61	37.126	41.199	21.323	0.00	0.00
ATOM	940	CD2	PHE	X	61	37.851	43.185	21.739	0.00	0.00
ATOM	941	HD2	PHE	X	61	38.770	43.039	21.191	0.00	0.00
ATOM	942	C	PHE	X	61	38.637	48.028	21.325	0.00	0.00
ATOM	943	O	PHE	X	61	39.419	48.167	20.381	0.00	0.00
ATOM	944	N	GLN	X	62	38.604	48.967	22.267	0.00	0.00
ATOM	945	H	GLN	X	62	37.920	48.749	22.977	0.00	0.00
ATOM	946	CA	GLN	X	62	39.453	50.160	22.249	0.00	0.00
ATOM	947	HA	GLN	X	62	39.774	50.376	21.230	0.00	0.00
ATOM	948	CB	GLN	X	62	38.606	51.334	22.767	0.00	0.00
ATOM	949	HB2	GLN	X	62	38.597	51.352	23.857	0.00	0.00
ATOM	950	HB3	GLN	X	62	39.150	52.267	22.619	0.00	0.00
ATOM	951	CG	GLN	X	62	37.154	51.571	22.372	0.00	0.00
ATOM	952	HG2	GLN	X	62	36.491	50.763	22.683	0.00	0.00
ATOM	953	HG3	GLN	X	62	36.804	52.457	22.901	0.00	0.00
ATOM	954	CD	GLN	X	62	36.931	51.670	20.804	0.00	0.00
ATOM	955	OE1	GLN	X	62	37.732	51.278	20.027	0.00	0.00
ATOM	956	NE2	GLN	X	62	35.787	52.144	20.341	0.00	0.00
ATOM	957	HE21	GLN	X	62	35.525	51.954	19.384	0.00	0.00
ATOM	958	HE22	GLN	X	62	35.134	52.624	20.943	0.00	0.00
ATOM	959	C	GLN	X	62	40.728	49.866	23.029	0.00	0.00
ATOM	960	O	GLN	X	62	41.357	48.865	22.746	0.00	0.00
ATOM	961	N	SER	X	63	41.126	50.758	23.954	0.00	0.00
ATOM	962	H	SER	X	63	40.584	51.588	24.143	0.00	0.00
ATOM	963	CA	SER	X	63	42.357	50.676	24.808	0.00	0.00
ATOM	964	HA	SER	X	63	43.022	49.987	24.287	0.00	0.00
ATOM	965	CB	SER	X	63	43.115	52.018	24.960	0.00	0.00
ATOM	966	HB2	SER	X	63	42.597	52.697	25.637	0.00	0.00
ATOM	967	HB3	SER	X	63	44.112	51.732	25.294	0.00	0.00
ATOM	968	OG	SER	X	63	43.284	52.781	23.757	0.00	0.00
ATOM	969	HG	SER	X	63	42.504	53.313	23.584	0.00	0.00
ATOM	970	C	SER	X	63	42.208	50.103	26.179	0.00	0.00
ATOM	971	O	SER	X	63	41.262	50.407	26.937	0.00	0.00
ATOM	972	N	VAL	X	64	43.098	49.270	26.630	0.00	0.00
ATOM	973	H	VAL	X	64	43.998	49.378	26.183	0.00	0.00
ATOM	974	CA	VAL	X	64	43.214	48.739	27.983	0.00	0.00
ATOM	975	HA	VAL	X	64	42.251	48.507	28.437	0.00	0.00
ATOM	976	CB	VAL	X	64	44.018	47.438	27.969	0.00	0.00
ATOM	977	HB	VAL	X	64	45.033	47.684	27.659	0.00	0.00
ATOM	978	CG1	VAL	X	64	44.267	46.917	29.404	0.00	0.00
ATOM	979	HG11	VAL	X	64	44.972	47.587	29.896	0.00	0.00
ATOM	980	HG12	VAL	X	64	43.377	46.739	30.007	0.00	0.00
ATOM	981	HG13	VAL	X	64	44.752	45.941	29.425	0.00	0.00
ATOM	982	CG2	VAL	X	64	43.278	46.301	27.188	0.00	0.00

ATOM	983	HG21	VAL	X	64	42.416	46.024	27.795	0.00	0.00
ATOM	984	HG22	VAL	X	64	43.968	45.458	27.146	0.00	0.00
ATOM	985	HG23	VAL	X	64	43.088	46.570	26.149	0.00	0.00
ATOM	986	C	VAL	X	64	43.910	49.701	28.854	0.00	0.00
ATOM	987	O	VAL	X	64	44.738	50.453	28.355	0.00	0.00
ATOM	988	N	CYX	X	65	43.487	49.913	30.120	0.00	0.00
ATOM	989	H	CYX	X	65	42.656	49.425	30.423	0.00	0.00
ATOM	990	CA	CYX	X	65	44.196	50.922	30.938	0.00	0.00
ATOM	991	HA	CYX	X	65	44.235	51.838	30.349	0.00	0.00
ATOM	992	CB	CYX	X	65	43.348	51.057	32.258	0.00	0.00
ATOM	993	HB2	CYX	X	65	43.160	50.051	32.634	0.00	0.00
ATOM	994	HB3	CYX	X	65	43.846	51.747	32.939	0.00	0.00
ATOM	995	SG	CYX	X	65	41.641	51.766	32.031	0.00	0.00
ATOM	996	C	CYX	X	65	45.594	50.426	31.331	0.00	0.00
ATOM	997	O	CYX	X	65	45.858	49.262	31.503	0.00	0.00
ATOM	998	N	TYR	X	66	46.480	51.358	31.304	0.00	0.00
ATOM	999	H	TYR	X	66	46.215	52.329	31.215	0.00	0.00
ATOM	1000	CA	TYR	X	66	47.918	51.192	31.662	0.00	0.00
ATOM	1001	HA	TYR	X	66	48.300	50.620	30.817	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.687	52.552	31.756	0.00	0.00
ATOM	1003	HB2	TYR	X	66	48.013	53.408	31.711	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.296	52.560	32.660	0.00	0.00
ATOM	1005	CG	TYR	X	66	49.515	52.774	30.504	0.00	0.00
ATOM	1006	CD1	TYR	X	66	49.061	53.663	29.530	0.00	0.00
ATOM	1007	HD1	TYR	X	66	48.123	54.186	29.642	0.00	0.00
ATOM	1008	CE1	TYR	X	66	49.870	53.919	28.361	0.00	0.00
ATOM	1009	HE1	TYR	X	66	49.630	54.707	27.663	0.00	0.00
ATOM	1010	CZ	TYR	X	66	51.081	53.230	28.133	0.00	0.00
ATOM	1011	OH	TYR	X	66	51.871	53.619	27.093	0.00	0.00
ATOM	1012	HH	TYR	X	66	51.445	54.116	26.391	0.00	0.00
ATOM	1013	CE2	TYR	X	66	51.520	52.303	29.125	0.00	0.00
ATOM	1014	HE2	TYR	X	66	52.517	51.886	29.125	0.00	0.00
ATOM	1015	CD2	TYR	X	66	50.737	52.125	30.275	0.00	0.00
ATOM	1016	HD2	TYR	X	66	51.088	51.498	31.081	0.00	0.00
ATOM	1017	C	TYR	X	66	48.147	50.384	32.901	0.00	0.00
ATOM	1018	O	TYR	X	66	47.544	50.604	33.923	0.00	0.00
ATOM	1019	N	GLN	X	67	49.081	49.462	32.714	0.00	0.00
ATOM	1020	H	GLN	X	67	49.538	49.398	31.816	0.00	0.00
ATOM	1021	CA	GLN	X	67	49.536	48.410	33.681	0.00	0.00
ATOM	1022	HA	GLN	X	67	49.636	48.741	34.715	0.00	0.00
ATOM	1023	CB	GLN	X	67	48.611	47.102	33.619	0.00	0.00
ATOM	1024	HB2	GLN	X	67	49.115	46.324	34.193	0.00	0.00
ATOM	1025	HB3	GLN	X	67	47.728	47.467	34.144	0.00	0.00
ATOM	1026	CG	GLN	X	67	48.328	46.589	32.164	0.00	0.00
ATOM	1027	HG2	GLN	X	67	48.065	47.434	31.527	0.00	0.00
ATOM	1028	HG3	GLN	X	67	49.134	46.022	31.698	0.00	0.00
ATOM	1029	CD	GLN	X	67	47.042	45.806	32.189	0.00	0.00
ATOM	1030	OE1	GLN	X	67	47.007	44.605	32.340	0.00	0.00
ATOM	1031	NE2	GLN	X	67	45.900	46.403	32.165	0.00	0.00
ATOM	1032	HE21	GLN	X	67	45.112	45.781	32.057	0.00	0.00
ATOM	1033	HE22	GLN	X	67	45.824	47.373	31.894	0.00	0.00
ATOM	1034	C	GLN	X	67	50.919	47.910	33.146	0.00	0.00
ATOM	1035	O	GLN	X	67	51.276	48.096	31.997	0.00	0.00
ATOM	1036	N	TYR	X	68	51.663	47.244	33.973	0.00	0.00
ATOM	1037	H	TYR	X	68	51.354	47.074	34.920	0.00	0.00
ATOM	1038	CA	TYR	X	68	52.795	46.490	33.502	0.00	0.00
ATOM	1039	HA	TYR	X	68	53.350	47.170	32.856	0.00	0.00
ATOM	1040	CB	TYR	X	68	53.761	46.130	34.663	0.00	0.00
ATOM	1041	HB2	TYR	X	68	53.841	46.991	35.326	0.00	0.00
ATOM	1042	HB3	TYR	X	68	53.340	45.310	35.246	0.00	0.00
ATOM	1043	CG	TYR	X	68	55.204	45.777	34.111	0.00	0.00
ATOM	1044	CD1	TYR	X	68	56.181	46.837	33.952	0.00	0.00
ATOM	1045	HD1	TYR	X	68	55.998	47.889	34.112	0.00	0.00
ATOM	1046	CE1	TYR	X	68	57.469	46.446	33.666	0.00	0.00
ATOM	1047	HE1	TYR	X	68	58.206	47.202	33.441	0.00	0.00
ATOM	1048	CZ	TYR	X	68	57.847	45.071	33.580	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.155	44.812	33.250	0.00	0.00

ATOM	1050	HH	TYR	X	68	59.760	45.517	33.006	0.00	0.00
ATOM	1051	CE2	TYR	X	68	56.923	44.061	33.752	0.00	0.00
ATOM	1052	HE2	TYR	X	68	57.352	43.073	33.671	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.615	44.402	34.202	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.972	43.628	34.595	0.00	0.00
ATOM	1055	C	TYR	X	68	52.342	45.295	32.635	0.00	0.00
ATOM	1056	O	TYR	X	68	51.198	44.881	32.785	0.00	0.00
ATOM	1057	N	VAL	X	69	53.237	44.725	31.830	0.00	0.00
ATOM	1058	H	VAL	X	69	54.158	45.115	31.687	0.00	0.00
ATOM	1059	CA	VAL	X	69	52.918	43.493	31.067	0.00	0.00
ATOM	1060	HA	VAL	X	69	52.044	42.977	31.465	0.00	0.00
ATOM	1061	CB	VAL	X	69	52.685	43.910	29.568	0.00	0.00
ATOM	1062	HB	VAL	X	69	53.582	44.331	29.113	0.00	0.00
ATOM	1063	CG1	VAL	X	69	52.453	42.675	28.713	0.00	0.00
ATOM	1064	HG11	VAL	X	69	52.048	42.965	27.743	0.00	0.00
ATOM	1065	HG12	VAL	X	69	53.232	41.915	28.771	0.00	0.00
ATOM	1066	HG13	VAL	X	69	51.547	42.258	29.153	0.00	0.00
ATOM	1067	CG2	VAL	X	69	51.448	44.829	29.457	0.00	0.00
ATOM	1068	HG21	VAL	X	69	51.477	45.664	30.157	0.00	0.00
ATOM	1069	HG22	VAL	X	69	50.494	44.372	29.717	0.00	0.00
ATOM	1070	HG23	VAL	X	69	51.529	45.304	28.479	0.00	0.00
ATOM	1071	C	VAL	X	69	54.132	42.603	31.140	0.00	0.00
ATOM	1072	O	VAL	X	69	55.248	43.168	31.230	0.00	0.00
ATOM	1073	N	ASP	X	70	53.893	41.366	31.208	0.00	0.00
ATOM	1074	H	ASP	X	70	52.973	41.066	30.919	0.00	0.00
ATOM	1075	CA	ASP	X	70	54.764	40.318	31.688	0.00	0.00
ATOM	1076	HA	ASP	X	70	54.906	40.490	32.755	0.00	0.00
ATOM	1077	CB	ASP	X	70	54.168	38.955	31.615	0.00	0.00
ATOM	1078	HB2	ASP	X	70	53.125	38.992	31.930	0.00	0.00
ATOM	1079	HB3	ASP	X	70	54.305	38.729	30.557	0.00	0.00
ATOM	1080	CG	ASP	X	70	54.787	37.912	32.486	0.00	0.00
ATOM	1081	OD1	ASP	X	70	55.510	37.077	31.944	0.00	0.00
ATOM	1082	OD2	ASP	X	70	54.629	37.962	33.717	0.00	0.00
ATOM	1083	C	ASP	X	70	56.166	40.263	31.018	0.00	0.00
ATOM	1084	O	ASP	X	70	56.235	40.453	29.800	0.00	0.00
ATOM	1085	N	THR	X	71	57.211	40.028	31.779	0.00	0.00
ATOM	1086	H	THR	X	71	57.125	40.001	32.785	0.00	0.00
ATOM	1087	CA	THR	X	71	58.603	39.814	31.186	0.00	0.00
ATOM	1088	HA	THR	X	71	58.520	39.816	30.100	0.00	0.00
ATOM	1089	CB	THR	X	71	59.540	40.971	31.599	0.00	0.00
ATOM	1090	HB	THR	X	71	60.560	40.748	31.287	0.00	0.00
ATOM	1091	CG2	THR	X	71	59.100	42.249	30.866	0.00	0.00
ATOM	1092	HG21	THR	X	71	59.781	43.079	31.055	0.00	0.00
ATOM	1093	HG22	THR	X	71	58.101	42.516	31.212	0.00	0.00
ATOM	1094	HG23	THR	X	71	59.016	42.034	29.801	0.00	0.00
ATOM	1095	OG1	THR	X	71	59.506	41.212	32.985	0.00	0.00
ATOM	1096	HG1	THR	X	71	60.320	41.669	33.207	0.00	0.00
ATOM	1097	C	THR	X	71	59.131	38.405	31.624	0.00	0.00
ATOM	1098	O	THR	X	71	60.176	37.990	31.148	0.00	0.00
ATOM	1099	N	LEU	X	72	58.449	37.600	32.546	0.00	0.00
ATOM	1100	H	LEU	X	72	57.468	37.787	32.698	0.00	0.00
ATOM	1101	CA	LEU	X	72	59.061	36.441	33.095	0.00	0.00
ATOM	1102	HA	LEU	X	72	60.134	36.628	33.120	0.00	0.00
ATOM	1103	CB	LEU	X	72	58.381	36.201	34.457	0.00	0.00
ATOM	1104	HB2	LEU	X	72	58.436	37.115	35.049	0.00	0.00
ATOM	1105	HB3	LEU	X	72	57.333	35.907	34.414	0.00	0.00
ATOM	1106	CG	LEU	X	72	59.019	35.057	35.216	0.00	0.00
ATOM	1107	HG	LEU	X	72	58.996	34.237	34.498	0.00	0.00
ATOM	1108	CD1	LEU	X	72	60.514	35.192	35.474	0.00	0.00
ATOM	1109	HD11	LEU	X	72	60.735	35.945	36.230	0.00	0.00
ATOM	1110	HD12	LEU	X	72	60.997	35.437	34.528	0.00	0.00
ATOM	1111	HD13	LEU	X	72	60.897	34.237	35.831	0.00	0.00
ATOM	1112	CD2	LEU	X	72	58.263	34.594	36.509	0.00	0.00
ATOM	1113	HD21	LEU	X	72	58.291	35.465	37.164	0.00	0.00
ATOM	1114	HD22	LEU	X	72	57.258	34.295	36.213	0.00	0.00
ATOM	1115	HD23	LEU	X	72	58.830	33.771	36.944	0.00	0.00
ATOM	1116	C	LEU	X	72	58.882	35.283	32.085	0.00	0.00

ATOM	1117	O	LEU	X	72	59.916	34.678	31.717	0.00	0.00
ATOM	1118	N	TYR	X	73	57.653	35.052	31.587	0.00	0.00
ATOM	1119	H	TYR	X	73	56.933	35.734	31.778	0.00	0.00
ATOM	1120	CA	TYR	X	73	57.282	34.038	30.580	0.00	0.00
ATOM	1121	HA	TYR	X	73	58.122	33.536	30.099	0.00	0.00
ATOM	1122	CB	TYR	X	73	56.683	32.892	31.441	0.00	0.00
ATOM	1123	HB2	TYR	X	73	55.751	33.276	31.855	0.00	0.00
ATOM	1124	HB3	TYR	X	73	56.501	31.969	30.890	0.00	0.00
ATOM	1125	CG	TYR	X	73	57.445	32.320	32.662	0.00	0.00
ATOM	1126	CD1	TYR	X	73	58.744	31.843	32.534	0.00	0.00
ATOM	1127	HD1	TYR	X	73	59.344	31.980	31.647	0.00	0.00
ATOM	1128	CE1	TYR	X	73	59.356	31.458	33.757	0.00	0.00
ATOM	1129	HE1	TYR	X	73	60.371	31.091	33.743	0.00	0.00
ATOM	1130	CZ	TYR	X	73	58.606	31.275	34.994	0.00	0.00
ATOM	1131	OH	TYR	X	73	59.236	30.838	36.172	0.00	0.00
ATOM	1132	HH	TYR	X	73	58.736	31.050	36.964	0.00	0.00
ATOM	1133	CE2	TYR	X	73	57.245	31.685	35.001	0.00	0.00
ATOM	1134	HE2	TYR	X	73	56.613	31.585	35.871	0.00	0.00
ATOM	1135	CD2	TYR	X	73	56.674	32.170	33.791	0.00	0.00
ATOM	1136	HD2	TYR	X	73	55.640	32.481	33.783	0.00	0.00
ATOM	1137	C	TYR	X	73	56.267	34.477	29.535	0.00	0.00
ATOM	1138	O	TYR	X	73	55.380	33.703	29.160	0.00	0.00
ATOM	1139	N	PRO	X	74	56.432	35.607	28.879	0.00	0.00
ATOM	1140	CD	PRO	X	74	57.325	36.798	29.213	0.00	0.00
ATOM	1141	HD2	PRO	X	74	58.358	36.457	29.284	0.00	0.00
ATOM	1142	HD3	PRO	X	74	57.076	37.253	30.171	0.00	0.00
ATOM	1143	CG	PRO	X	74	57.179	37.838	28.105	0.00	0.00
ATOM	1144	HG2	PRO	X	74	57.939	37.615	27.357	0.00	0.00
ATOM	1145	HB3	PRO	X	74	57.261	38.886	28.393	0.00	0.00
ATOM	1146	CB	PRO	X	74	55.884	37.481	27.390	0.00	0.00
ATOM	1147	HB2	PRO	X	74	55.877	37.545	26.302	0.00	0.00
ATOM	1148	HB3	PRO	X	74	55.123	38.161	27.772	0.00	0.00
ATOM	1149	CA	PRO	X	74	55.577	35.968	27.730	0.00	0.00
ATOM	1150	HA	PRO	X	74	54.532	35.790	27.985	0.00	0.00
ATOM	1151	C	PRO	X	74	55.787	35.029	26.508	0.00	0.00
ATOM	1152	O	PRO	X	74	56.962	34.784	26.120	0.00	0.00
ATOM	1153	N	GLY	X	75	54.702	34.767	25.781	0.00	0.00
ATOM	1154	H	GLY	X	75	53.837	35.202	26.069	0.00	0.00
ATOM	1155	CA	GLY	X	75	54.789	33.812	24.718	0.00	0.00
ATOM	1156	HA2	GLY	X	75	54.148	34.215	23.933	0.00	0.00
ATOM	1157	HA3	GLY	X	75	55.782	33.887	24.275	0.00	0.00
ATOM	1158	C	GLY	X	75	54.428	32.399	25.086	0.00	0.00
ATOM	1159	O	GLY	X	75	54.273	31.539	24.197	0.00	0.00
ATOM	1160	N	PHE	X	76	54.282	32.050	26.327	0.00	0.00
ATOM	1161	H	PHE	X	76	54.400	32.810	26.982	0.00	0.00
ATOM	1162	CA	PHE	X	76	53.715	30.795	26.846	0.00	0.00
ATOM	1163	HA	PHE	X	76	53.980	29.991	26.159	0.00	0.00
ATOM	1164	CB	PHE	X	76	54.323	30.447	28.205	0.00	0.00
ATOM	1165	HB2	PHE	X	76	55.403	30.596	28.239	0.00	0.00
ATOM	1166	HB3	PHE	X	76	53.783	31.042	28.941	0.00	0.00
ATOM	1167	CG	PHE	X	76	54.192	28.992	28.532	0.00	0.00
ATOM	1168	CD1	PHE	X	76	55.027	27.988	27.928	0.00	0.00
ATOM	1169	HD1	PHE	X	76	55.710	28.164	27.110	0.00	0.00
ATOM	1170	CE1	PHE	X	76	54.823	26.626	28.242	0.00	0.00
ATOM	1171	HE1	PHE	X	76	55.412	25.814	27.843	0.00	0.00
ATOM	1172	CZ	PHE	X	76	53.878	26.251	29.236	0.00	0.00
ATOM	1173	HZ	PHE	X	76	53.800	25.199	29.469	0.00	0.00
ATOM	1174	CE2	PHE	X	76	53.137	27.245	29.899	0.00	0.00
ATOM	1175	HE2	PHE	X	76	52.480	27.040	30.731	0.00	0.00
ATOM	1176	CD2	PHE	X	76	53.279	28.598	29.562	0.00	0.00
ATOM	1177	HD2	PHE	X	76	52.754	29.281	30.213	0.00	0.00
ATOM	1178	C	PHE	X	76	52.168	30.907	26.989	0.00	0.00
ATOM	1179	O	PHE	X	76	51.768	31.972	27.546	0.00	0.00
ATOM	1180	N	GLU	X	77	51.345	29.971	26.579	0.00	0.00
ATOM	1181	H	GLU	X	77	51.684	29.047	26.355	0.00	0.00
ATOM	1182	CA	GLU	X	77	49.912	30.073	26.569	0.00	0.00
ATOM	1183	HA	GLU	X	77	49.572	30.748	25.784	0.00	0.00

ATOM	1184	CB	GLU	X	77	49.370	28.683	26.243	0.00	0.00
ATOM	1185	HB2	GLU	X	77	49.895	28.230	25.402	0.00	0.00
ATOM	1186	HB3	GLU	X	77	49.706	28.041	27.058	0.00	0.00
ATOM	1187	CG	GLU	X	77	47.889	28.598	26.045	0.00	0.00
ATOM	1188	HG2	GLU	X	77	47.348	28.942	26.927	0.00	0.00
ATOM	1189	HG3	GLU	X	77	47.614	29.316	25.273	0.00	0.00
ATOM	1190	CD	GLU	X	77	47.420	27.236	25.703	0.00	0.00
ATOM	1191	OE1	GLU	X	77	47.738	26.795	24.582	0.00	0.00
ATOM	1192	OE2	GLU	X	77	46.816	26.638	26.605	0.00	0.00
ATOM	1193	C	GLU	X	77	49.312	30.508	27.927	0.00	0.00
ATOM	1194	O	GLU	X	77	48.495	31.416	27.868	0.00	0.00
ATOM	1195	N	GLY	X	78	49.674	29.902	29.043	0.00	0.00
ATOM	1196	H	GLY	X	78	50.474	29.288	28.990	0.00	0.00
ATOM	1197	CA	GLY	X	78	49.033	30.210	30.315	0.00	0.00
ATOM	1198	HA2	GLY	X	78	47.964	30.284	30.120	0.00	0.00
ATOM	1199	HA3	GLY	X	78	49.292	29.416	31.016	0.00	0.00
ATOM	1200	C	GLY	X	78	49.429	31.579	30.877	0.00	0.00
ATOM	1201	O	GLY	X	78	49.102	31.894	32.005	0.00	0.00
ATOM	1202	N	THR	X	79	50.173	32.396	30.070	0.00	0.00
ATOM	1203	H	THR	X	79	50.436	31.920	29.220	0.00	0.00
ATOM	1204	CA	THR	X	79	50.586	33.810	30.240	0.00	0.00
ATOM	1205	HA	THR	X	79	50.180	34.092	31.211	0.00	0.00
ATOM	1206	CB	THR	X	79	52.150	33.946	30.289	0.00	0.00
ATOM	1207	HB	THR	X	79	52.554	33.600	29.338	0.00	0.00
ATOM	1208	CG2	THR	X	79	52.659	35.393	30.533	0.00	0.00
ATOM	1209	HG21	THR	X	79	52.525	36.072	29.691	0.00	0.00
ATOM	1210	HG22	THR	X	79	53.700	35.447	30.850	0.00	0.00
ATOM	1211	HG23	THR	X	79	52.050	35.795	31.343	0.00	0.00
ATOM	1212	OG1	THR	X	79	52.827	33.264	31.318	0.00	0.00
ATOM	1213	HG1	THR	X	79	53.352	33.957	31.726	0.00	0.00
ATOM	1214	C	THR	X	79	49.971	34.714	29.191	0.00	0.00
ATOM	1215	O	THR	X	79	49.529	35.787	29.543	0.00	0.00
ATOM	1216	N	GLU	X	80	49.904	34.158	27.936	0.00	0.00
ATOM	1217	H	GLU	X	80	50.316	33.243	27.825	0.00	0.00
ATOM	1218	CA	GLU	X	80	49.427	34.877	26.772	0.00	0.00
ATOM	1219	HA	GLU	X	80	49.964	35.825	26.739	0.00	0.00
ATOM	1220	CB	GLU	X	80	49.999	34.104	25.541	0.00	0.00
ATOM	1221	HB2	GLU	X	80	51.082	34.051	25.650	0.00	0.00
ATOM	1222	HB3	GLU	X	80	49.630	33.087	25.407	0.00	0.00
ATOM	1223	CG	GLU	X	80	49.625	34.810	24.254	0.00	0.00
ATOM	1224	HG2	GLU	X	80	48.550	34.829	24.075	0.00	0.00
ATOM	1225	HG3	GLU	X	80	49.980	35.840	24.297	0.00	0.00
ATOM	1226	CD	GLU	X	80	50.407	34.192	23.123	0.00	0.00
ATOM	1227	OE1	GLU	X	80	49.974	33.095	22.709	0.00	0.00
ATOM	1228	OE2	GLU	X	80	51.309	34.829	22.523	0.00	0.00
ATOM	1229	C	GLU	X	80	47.920	35.058	26.733	0.00	0.00
ATOM	1230	O	GLU	X	80	47.521	36.029	26.085	0.00	0.00
ATOM	1231	N	MET	X	81	47.197	34.153	27.414	0.00	0.00
ATOM	1232	H	MET	X	81	47.696	33.353	27.775	0.00	0.00
ATOM	1233	CA	MET	X	81	45.754	34.267	27.533	0.00	0.00
ATOM	1234	HA	MET	X	81	45.429	34.518	26.523	0.00	0.00
ATOM	1235	CB	MET	X	81	45.239	32.913	27.960	0.00	0.00
ATOM	1236	HB2	MET	X	81	44.184	32.761	27.731	0.00	0.00
ATOM	1237	HB3	MET	X	81	45.624	32.103	27.340	0.00	0.00
ATOM	1238	CG	MET	X	81	45.428	32.503	29.426	0.00	0.00
ATOM	1239	HG2	MET	X	81	46.417	32.784	29.788	0.00	0.00
ATOM	1240	HG3	MET	X	81	44.691	33.052	30.012	0.00	0.00
ATOM	1241	SD	MET	X	81	45.357	30.634	29.627	0.00	0.00
ATOM	1242	CE	MET	X	81	43.611	30.551	29.746	0.00	0.00
ATOM	1243	HE1	MET	X	81	43.222	29.813	29.044	0.00	0.00
ATOM	1244	HE2	MET	X	81	43.235	30.123	30.675	0.00	0.00
ATOM	1245	HE3	MET	X	81	43.091	31.501	29.626	0.00	0.00
ATOM	1246	C	MET	X	81	45.492	35.464	28.501	0.00	0.00
ATOM	1247	O	MET	X	81	44.431	36.126	28.347	0.00	0.00
ATOM	1248	N	TRP	X	82	46.361	35.768	29.461	0.00	0.00
ATOM	1249	H	TRP	X	82	47.119	35.155	29.728	0.00	0.00
ATOM	1250	CA	TRP	X	82	46.221	36.864	30.399	0.00	0.00

ATOM	1251	HA	TRP	X	82	45.153	36.995	30.577	0.00	0.00
ATOM	1252	CB	TRP	X	82	46.692	36.487	31.812	0.00	0.00
ATOM	1253	HB2	TRP	X	82	47.781	36.468	31.812	0.00	0.00
ATOM	1254	HB3	TRP	X	82	46.395	37.214	32.568	0.00	0.00
ATOM	1255	CG	TRP	X	82	46.179	35.127	32.239	0.00	0.00
ATOM	1256	CD1	TRP	X	82	46.960	34.031	32.407	0.00	0.00
ATOM	1257	HD1	TRP	X	82	48.033	34.151	32.440	0.00	0.00
ATOM	1258	NE1	TRP	X	82	46.204	32.974	32.900	0.00	0.00
ATOM	1259	HE1	TRP	X	82	46.621	32.057	32.968	0.00	0.00
ATOM	1260	CE2	TRP	X	82	44.856	33.321	32.806	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	43.676	32.504	32.853	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	43.724	31.459	33.124	0.00	0.00
ATOM	1263	CH2	TRP	X	82	42.437	33.111	32.817	0.00	0.00
ATOM	1264	HH2	TRP	X	82	41.490	32.606	32.941	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	42.396	34.516	32.443	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	41.415	34.876	32.169	0.00	0.00
ATOM	1267	CE3	TRP	X	82	43.508	35.299	32.239	0.00	0.00
ATOM	1268	HE3	TRP	X	82	43.417	36.271	31.777	0.00	0.00
ATOM	1269	CD2	TRP	X	82	44.807	34.764	32.440	0.00	0.00
ATOM	1270	C	TRP	X	82	46.756	38.199	29.911	0.00	0.00
ATOM	1271	O	TRP	X	82	46.068	39.214	30.014	0.00	0.00
ATOM	1272	N	ASN	X	83	47.997	38.360	29.390	0.00	0.00
ATOM	1273	H	ASN	X	83	48.674	37.610	29.396	0.00	0.00
ATOM	1274	CA	ASN	X	83	48.525	39.655	29.003	0.00	0.00
ATOM	1275	HA	ASN	X	83	48.432	40.178	29.955	0.00	0.00
ATOM	1276	CB	ASN	X	83	50.030	39.497	28.832	0.00	0.00
ATOM	1277	HB2	ASN	X	83	50.319	38.786	28.057	0.00	0.00
ATOM	1278	HB3	ASN	X	83	50.321	40.493	28.497	0.00	0.00
ATOM	1279	CG	ASN	X	83	50.695	39.291	30.213	0.00	0.00
ATOM	1280	OD1	ASN	X	83	51.257	40.238	30.877	0.00	0.00
ATOM	1281	ND2	ASN	X	83	50.560	38.179	30.820	0.00	0.00
ATOM	1282	HD21	ASN	X	83	50.974	38.179	31.741	0.00	0.00
ATOM	1283	HD22	ASN	X	83	50.135	37.382	30.367	0.00	0.00
ATOM	1284	C	ASN	X	83	47.625	40.426	28.005	0.00	0.00
ATOM	1285	O	ASN	X	83	47.050	39.801	27.083	0.00	0.00
ATOM	1286	N	PRO	X	84	47.472	41.767	28.160	0.00	0.00
ATOM	1287	CD	PRO	X	84	48.224	42.696	29.038	0.00	0.00
ATOM	1288	HD2	PRO	X	84	49.275	42.810	28.773	0.00	0.00
ATOM	1289	HD3	PRO	X	84	48.003	42.372	30.055	0.00	0.00
ATOM	1290	CG	PRO	X	84	47.511	44.090	28.821	0.00	0.00
ATOM	1291	HG2	PRO	X	84	48.260	44.868	28.965	0.00	0.00
ATOM	1292	HG3	PRO	X	84	46.686	44.197	29.526	0.00	0.00
ATOM	1293	CB	PRO	X	84	47.046	44.129	27.424	0.00	0.00
ATOM	1294	HB2	PRO	X	84	47.880	44.436	26.793	0.00	0.00
ATOM	1295	HB3	PRO	X	84	46.123	44.682	27.251	0.00	0.00
ATOM	1296	CA	PRO	X	84	46.692	42.603	27.204	0.00	0.00
ATOM	1297	HA	PRO	X	84	45.644	42.470	27.471	0.00	0.00
ATOM	1298	C	PRO	X	84	46.942	42.295	25.750	0.00	0.00
ATOM	1299	O	PRO	X	84	48.053	42.173	25.277	0.00	0.00
ATOM	1300	N	ASN	X	85	45.827	42.291	24.987	0.00	0.00
ATOM	1301	H	ASN	X	85	44.941	42.212	25.466	0.00	0.00
ATOM	1302	CA	ASN	X	85	45.734	41.986	23.547	0.00	0.00
ATOM	1303	HA	ASN	X	85	46.677	41.590	23.170	0.00	0.00
ATOM	1304	CB	ASN	X	85	44.710	40.860	23.368	0.00	0.00
ATOM	1305	HB2	ASN	X	85	44.785	40.401	22.383	0.00	0.00
ATOM	1306	HB3	ASN	X	85	44.976	40.099	24.102	0.00	0.00
ATOM	1307	CG	ASN	X	85	43.292	41.173	23.733	0.00	0.00
ATOM	1308	OD1	ASN	X	85	42.967	42.181	24.406	0.00	0.00
ATOM	1309	ND2	ASN	X	85	42.384	40.261	23.513	0.00	0.00
ATOM	1310	HD21	ASN	X	85	41.402	40.470	23.627	0.00	0.00
ATOM	1311	HD22	ASN	X	85	42.658	39.327	23.242	0.00	0.00
ATOM	1312	C	ASN	X	85	45.231	43.153	22.763	0.00	0.00
ATOM	1313	O	ASN	X	85	44.827	43.075	21.600	0.00	0.00
ATOM	1314	N	ARG	X	86	45.126	44.355	23.304	0.00	0.00
ATOM	1315	H	ARG	X	86	45.416	44.345	24.272	0.00	0.00
ATOM	1316	CA	ARG	X	86	44.730	45.727	22.877	0.00	0.00
ATOM	1317	HA	ARG	X	86	44.925	45.723	21.804	0.00	0.00

ATOM	1318	CB	ARG	X	86	43.243	45.900	23.186	0.00	0.00
ATOM	1319	HB2	ARG	X	86	43.140	45.334	24.112	0.00	0.00
ATOM	1320	HB3	ARG	X	86	43.048	46.969	23.278	0.00	0.00
ATOM	1321	CG	ARG	X	86	42.224	45.240	22.270	0.00	0.00
ATOM	1322	HG2	ARG	X	86	42.206	44.153	22.355	0.00	0.00
ATOM	1323	HG3	ARG	X	86	41.244	45.557	22.629	0.00	0.00
ATOM	1324	CD	ARG	X	86	42.434	45.780	20.842	0.00	0.00
ATOM	1325	HD2	ARG	X	86	43.356	45.300	20.512	0.00	0.00
ATOM	1326	HD3	ARG	X	86	41.720	45.441	20.092	0.00	0.00
ATOM	1327	NE	ARG	X	86	42.471	47.179	20.833	0.00	0.00
ATOM	1328	HE	ARG	X	86	41.994	47.693	21.560	0.00	0.00
ATOM	1329	CZ	ARG	X	86	43.058	47.923	19.914	0.00	0.00
ATOM	1330	NH1	ARG	X	86	43.627	47.385	18.843	0.00	0.00
ATOM	1331	HH11	ARG	X	86	43.534	46.403	18.623	0.00	0.00
ATOM	1332	HH12	ARG	X	86	44.243	47.917	18.245	0.00	0.00
ATOM	1333	NH2	ARG	X	86	43.162	49.217	20.121	0.00	0.00
ATOM	1334	HH21	ARG	X	86	42.713	49.738	20.860	0.00	0.00
ATOM	1335	HH22	ARG	X	86	43.589	49.785	19.403	0.00	0.00
ATOM	1336	C	ARG	X	86	45.556	46.792	23.643	0.00	0.00
ATOM	1337	O	ARG	X	86	46.250	46.462	24.582	0.00	0.00
ATOM	1338	N	GLU	X	87	45.591	48.030	23.074	0.00	0.00
ATOM	1339	H	GLU	X	87	45.066	48.015	22.211	0.00	0.00
ATOM	1340	CA	GLU	X	87	46.640	49.036	23.308	0.00	0.00
ATOM	1341	HA	GLU	X	87	47.629	48.607	23.144	0.00	0.00
ATOM	1342	CB	GLU	X	87	46.495	50.130	22.206	0.00	0.00
ATOM	1343	HB2	GLU	X	87	46.534	49.807	21.166	0.00	0.00
ATOM	1344	HB3	GLU	X	87	45.514	50.593	22.093	0.00	0.00
ATOM	1345	CG	GLU	X	87	47.642	51.183	22.362	0.00	0.00
ATOM	1346	HG2	GLU	X	87	47.610	51.638	23.352	0.00	0.00
ATOM	1347	HG3	GLU	X	87	48.538	50.563	22.378	0.00	0.00
ATOM	1348	CD	GLU	X	87	47.618	52.152	21.207	0.00	0.00
ATOM	1349	OE1	GLU	X	87	47.813	51.885	20.038	0.00	0.00
ATOM	1350	OE2	GLU	X	87	47.346	53.333	21.559	0.00	0.00
ATOM	1351	C	GLU	X	87	46.580	49.634	24.794	0.00	0.00
ATOM	1352	O	GLU	X	87	45.464	49.926	25.283	0.00	0.00
ATOM	1353	N	LEU	X	88	47.693	49.915	25.454	0.00	0.00
ATOM	1354	H	LEU	X	88	48.575	49.932	24.961	0.00	0.00
ATOM	1355	CA	LEU	X	88	47.767	50.601	26.733	0.00	0.00
ATOM	1356	HA	LEU	X	88	46.899	50.365	27.349	0.00	0.00
ATOM	1357	CB	LEU	X	88	49.042	50.240	27.526	0.00	0.00
ATOM	1358	HB2	LEU	X	88	49.890	50.669	26.992	0.00	0.00
ATOM	1359	HB3	LEU	X	88	48.893	50.732	28.487	0.00	0.00
ATOM	1360	CG	LEU	X	88	49.311	48.761	27.735	0.00	0.00
ATOM	1361	HG	LEU	X	88	49.374	48.280	26.760	0.00	0.00
ATOM	1362	CD1	LEU	X	88	50.691	48.605	28.492	0.00	0.00
ATOM	1363	HD11	LEU	X	88	50.626	48.673	29.578	0.00	0.00
ATOM	1364	HD12	LEU	X	88	51.453	49.239	28.038	0.00	0.00
ATOM	1365	HD13	LEU	X	88	51.005	47.572	28.344	0.00	0.00
ATOM	1366	CD2	LEU	X	88	48.180	48.041	28.399	0.00	0.00
ATOM	1367	HD21	LEU	X	88	48.367	46.972	28.494	0.00	0.00
ATOM	1368	HD22	LEU	X	88	47.837	48.600	29.270	0.00	0.00
ATOM	1369	HD23	LEU	X	88	47.393	48.175	27.656	0.00	0.00
ATOM	1370	C	LEU	X	88	47.643	52.117	26.468	0.00	0.00
ATOM	1371	O	LEU	X	88	48.419	52.647	25.599	0.00	0.00
ATOM	1372	N	SER	X	89	46.607	52.739	27.030	0.00	0.00
ATOM	1373	H	SER	X	89	46.026	52.132	27.590	0.00	0.00
ATOM	1374	CA	SER	X	89	46.236	54.189	26.958	0.00	0.00
ATOM	1375	HA	SER	X	89	47.137	54.792	26.842	0.00	0.00
ATOM	1376	CB	SER	X	89	45.287	54.574	25.775	0.00	0.00
ATOM	1377	HB2	SER	X	89	45.697	54.175	24.848	0.00	0.00
ATOM	1378	HB3	SER	X	89	44.373	54.055	26.066	0.00	0.00
ATOM	1379	OG	SER	X	89	45.101	55.923	25.623	0.00	0.00
ATOM	1380	HG	SER	X	89	44.725	55.885	24.741	0.00	0.00
ATOM	1381	C	SER	X	89	45.679	54.624	28.332	0.00	0.00
ATOM	1382	O	SER	X	89	45.424	53.723	29.168	0.00	0.00
ATOM	1383	N	GLU	X	90	45.525	55.911	28.512	0.00	0.00
ATOM	1384	H	GLU	X	90	45.830	56.493	27.745	0.00	0.00

ATOM	1385	CA	GLU	X	90	44.743	56.561	29.539	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.501	55.832	30.313	0.00	0.00
ATOM	1387	CB	GLU	X	90	45.589	57.657	30.230	0.00	0.00
ATOM	1388	HB2	GLU	X	90	46.023	58.254	29.428	0.00	0.00
ATOM	1389	HB3	GLU	X	90	44.993	58.289	30.888	0.00	0.00
ATOM	1390	CG	GLU	X	90	46.680	56.979	31.060	0.00	0.00
ATOM	1391	HG2	GLU	X	90	46.376	56.172	31.726	0.00	0.00
ATOM	1392	HG3	GLU	X	90	47.523	56.577	30.497	0.00	0.00
ATOM	1393	CD	GLU	X	90	47.313	58.068	31.878	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.902	58.224	33.075	0.00	0.00
ATOM	1395	OE2	GLU	X	90	48.195	58.778	31.349	0.00	0.00
ATOM	1396	C	GLU	X	90	43.419	57.170	29.013	0.00	0.00
ATOM	1397	O	GLU	X	90	42.758	57.896	29.702	0.00	0.00
ATOM	1398	N	ASP	X	91	43.177	56.990	27.741	0.00	0.00
ATOM	1399	H	ASP	X	91	43.848	56.478	27.187	0.00	0.00
ATOM	1400	CA	ASP	X	91	41.757	56.909	27.208	0.00	0.00
ATOM	1401	HA	ASP	X	91	41.096	57.410	27.916	0.00	0.00
ATOM	1402	CB	ASP	X	91	41.578	57.751	25.907	0.00	0.00
ATOM	1403	HB2	ASP	X	91	41.752	58.787	26.197	0.00	0.00
ATOM	1404	HB3	ASP	X	91	42.245	57.348	25.145	0.00	0.00
ATOM	1405	CG	ASP	X	91	40.071	57.679	25.393	0.00	0.00
ATOM	1406	OD1	ASP	X	91	39.116	57.939	26.163	0.00	0.00
ATOM	1407	OD2	ASP	X	91	39.859	57.353	24.205	0.00	0.00
ATOM	1408	C	ASP	X	91	41.320	55.470	27.046	0.00	0.00
ATOM	1409	O	ASP	X	91	41.553	54.745	26.066	0.00	0.00
ATOM	1410	N	CYX	X	92	40.726	54.993	28.162	0.00	0.00
ATOM	1411	H	CYX	X	92	40.579	55.616	28.942	0.00	0.00
ATOM	1412	CA	CYX	X	92	40.559	53.581	28.528	0.00	0.00
ATOM	1413	HA	CYX	X	92	40.506	53.001	27.607	0.00	0.00
ATOM	1414	CB	CYX	X	92	41.829	53.130	29.198	0.00	0.00
ATOM	1415	HB2	CYX	X	92	41.885	52.045	29.109	0.00	0.00
ATOM	1416	HB3	CYX	X	92	42.700	53.645	28.794	0.00	0.00
ATOM	1417	SG	CYX	X	92	41.965	53.546	30.937	0.00	0.00
ATOM	1418	C	CYX	X	92	39.201	53.128	29.235	0.00	0.00
ATOM	1419	O	CYX	X	92	38.943	51.902	29.396	0.00	0.00
ATOM	1420	N	LEU	X	93	38.352	54.064	29.690	0.00	0.00
ATOM	1421	H	LEU	X	93	38.516	55.024	29.424	0.00	0.00
ATOM	1422	CA	LEU	X	93	37.072	53.785	30.352	0.00	0.00
ATOM	1423	HA	LEU	X	93	37.202	52.829	30.861	0.00	0.00
ATOM	1424	CB	LEU	X	93	36.763	54.851	31.430	0.00	0.00
ATOM	1425	HB2	LEU	X	93	36.711	55.848	30.992	0.00	0.00
ATOM	1426	HB3	LEU	X	93	35.737	54.646	31.738	0.00	0.00
ATOM	1427	CG	LEU	X	93	37.648	54.866	32.676	0.00	0.00
ATOM	1428	HG	LEU	X	93	38.667	55.187	32.461	0.00	0.00
ATOM	1429	CD1	LEU	X	93	36.967	55.891	33.663	0.00	0.00
ATOM	1430	HD11	LEU	X	93	37.711	55.872	34.459	0.00	0.00
ATOM	1431	HD12	LEU	X	93	36.067	55.448	34.089	0.00	0.00
ATOM	1432	HD13	LEU	X	93	36.859	56.897	33.257	0.00	0.00
ATOM	1433	CD2	LEU	X	93	37.941	53.494	33.250	0.00	0.00
ATOM	1434	HD21	LEU	X	93	37.003	53.036	33.562	0.00	0.00
ATOM	1435	HD22	LEU	X	93	38.534	52.988	32.488	0.00	0.00
ATOM	1436	HD23	LEU	X	93	38.541	53.605	34.153	0.00	0.00
ATOM	1437	C	LEU	X	93	36.034	53.602	29.293	0.00	0.00
ATOM	1438	O	LEU	X	93	35.437	54.542	28.811	0.00	0.00
ATOM	1439	N	TYR	X	94	35.922	52.325	28.871	0.00	0.00
ATOM	1440	H	TYR	X	94	36.330	51.622	29.469	0.00	0.00
ATOM	1441	CA	TYR	X	94	34.963	51.756	27.911	0.00	0.00
ATOM	1442	HA	TYR	X	94	34.131	52.449	27.781	0.00	0.00
ATOM	1443	CB	TYR	X	94	35.702	51.626	26.603	0.00	0.00
ATOM	1444	HB2	TYR	X	94	36.593	51.028	26.795	0.00	0.00
ATOM	1445	HB3	TYR	X	94	35.044	51.134	25.887	0.00	0.00
ATOM	1446	CG	TYR	X	94	36.159	52.913	25.909	0.00	0.00
ATOM	1447	CD1	TYR	X	94	35.320	53.456	24.963	0.00	0.00
ATOM	1448	HD1	TYR	X	94	34.395	52.975	24.681	0.00	0.00
ATOM	1449	CE1	TYR	X	94	35.570	54.680	24.262	0.00	0.00
ATOM	1450	HE1	TYR	X	94	34.974	55.045	23.438	0.00	0.00
ATOM	1451	CZ	TYR	X	94	36.724	55.394	24.665	0.00	0.00

ATOM	1452	OH	TYR	X	94	36.928	56.686	24.258	0.00	0.00
ATOM	1453	HH	TYR	X	94	37.777	56.994	24.583	0.00	0.00
ATOM	1454	CE2	TYR	X	94	37.673	54.809	25.584	0.00	0.00
ATOM	1455	HE2	TYR	X	94	38.577	55.261	25.963	0.00	0.00
ATOM	1456	CD2	TYR	X	94	37.359	53.520	26.138	0.00	0.00
ATOM	1457	HD2	TYR	X	94	37.922	53.053	26.933	0.00	0.00
ATOM	1458	C	TYR	X	94	34.426	50.384	28.429	0.00	0.00
ATOM	1459	O	TYR	X	94	35.167	49.725	29.119	0.00	0.00
ATOM	1460	N	LEU	X	95	33.226	49.975	28.060	0.00	0.00
ATOM	1461	H	LEU	X	95	32.781	50.383	27.250	0.00	0.00
ATOM	1462	CA	LEU	X	95	32.654	48.675	28.467	0.00	0.00
ATOM	1463	HA	LEU	X	95	33.452	47.978	28.721	0.00	0.00
ATOM	1464	CB	LEU	X	95	31.672	48.683	29.648	0.00	0.00
ATOM	1465	HB2	LEU	X	95	31.463	47.653	29.936	0.00	0.00
ATOM	1466	HB3	LEU	X	95	32.290	49.094	30.447	0.00	0.00
ATOM	1467	CG	LEU	X	95	30.277	49.421	29.552	0.00	0.00
ATOM	1468	HG	LEU	X	95	30.351	50.483	29.316	0.00	0.00
ATOM	1469	CD1	LEU	X	95	29.244	48.723	28.610	0.00	0.00
ATOM	1470	HD11	LEU	X	95	28.479	49.483	28.455	0.00	0.00
ATOM	1471	HD12	LEU	X	95	28.827	47.772	28.943	0.00	0.00
ATOM	1472	HD13	LEU	X	95	29.672	48.599	27.615	0.00	0.00
ATOM	1473	CD2	LEU	X	95	29.674	49.502	30.948	0.00	0.00
ATOM	1474	HD21	LEU	X	95	30.021	50.358	31.528	0.00	0.00
ATOM	1475	HD22	LEU	X	95	28.618	49.768	30.900	0.00	0.00
ATOM	1476	HD23	LEU	X	95	29.837	48.536	31.427	0.00	0.00
ATOM	1477	C	LEU	X	95	32.089	47.997	27.208	0.00	0.00
ATOM	1478	O	LEU	X	95	32.107	48.598	26.152	0.00	0.00
ATOM	1479	N	ASN	X	96	31.623	46.686	27.267	0.00	0.00
ATOM	1480	H	ASN	X	96	31.490	46.219	28.152	0.00	0.00
ATOM	1481	CA	ASN	X	96	31.364	45.742	26.170	0.00	0.00
ATOM	1482	HA	ASN	X	96	31.219	46.341	25.271	0.00	0.00
ATOM	1483	CB	ASN	X	96	32.669	44.940	25.924	0.00	0.00
ATOM	1484	HB2	ASN	X	96	32.836	44.284	26.779	0.00	0.00
ATOM	1485	HB3	ASN	X	96	32.517	44.145	25.194	0.00	0.00
ATOM	1486	CG	ASN	X	96	33.953	45.705	25.564	0.00	0.00
ATOM	1487	OD1	ASN	X	96	34.140	46.337	24.562	0.00	0.00
ATOM	1488	ND2	ASN	X	96	34.925	45.727	26.504	0.00	0.00
ATOM	1489	HD21	ASN	X	96	35.855	46.044	26.269	0.00	0.00
ATOM	1490	HD22	ASN	X	96	34.849	45.272	27.402	0.00	0.00
ATOM	1491	C	ASN	X	96	30.205	44.818	26.619	0.00	0.00
ATOM	1492	O	ASN	X	96	30.158	44.413	27.764	0.00	0.00
ATOM	1493	N	VAL	X	97	29.242	44.708	25.800	0.00	0.00
ATOM	1494	H	VAL	X	97	29.399	45.226	24.948	0.00	0.00
ATOM	1495	CA	VAL	X	97	27.932	44.050	25.994	0.00	0.00
ATOM	1496	HA	VAL	X	97	27.971	43.589	26.981	0.00	0.00
ATOM	1497	CB	VAL	X	97	26.715	45.069	26.017	0.00	0.00
ATOM	1498	HB	VAL	X	97	26.634	45.506	25.021	0.00	0.00
ATOM	1499	CG1	VAL	X	97	25.372	44.451	26.427	0.00	0.00
ATOM	1500	HG11	VAL	X	97	25.404	43.856	27.339	0.00	0.00
ATOM	1501	HG12	VAL	X	97	24.642	45.256	26.504	0.00	0.00
ATOM	1502	HG13	VAL	X	97	25.001	43.708	25.722	0.00	0.00
ATOM	1503	CG2	VAL	X	97	26.982	46.260	27.021	0.00	0.00
ATOM	1504	HG21	VAL	X	97	27.724	47.027	26.803	0.00	0.00
ATOM	1505	HG22	VAL	X	97	27.217	45.785	27.974	0.00	0.00
ATOM	1506	HG23	VAL	X	97	26.038	46.715	27.320	0.00	0.00
ATOM	1507	C	VAL	X	97	27.611	42.996	24.871	0.00	0.00
ATOM	1508	O	VAL	X	97	27.825	43.275	23.705	0.00	0.00
ATOM	1509	N	TRP	X	98	27.140	41.817	25.270	0.00	0.00
ATOM	1510	H	TRP	X	98	27.016	41.548	26.236	0.00	0.00
ATOM	1511	CA	TRP	X	98	26.601	40.677	24.439	0.00	0.00
ATOM	1512	HA	TRP	X	98	26.563	40.974	23.391	0.00	0.00
ATOM	1513	CB	TRP	X	98	27.520	39.475	24.602	0.00	0.00
ATOM	1514	HB2	TRP	X	98	27.730	39.377	25.667	0.00	0.00
ATOM	1515	HB3	TRP	X	98	27.114	38.490	24.371	0.00	0.00
ATOM	1516	CG	TRP	X	98	28.860	39.510	23.910	0.00	0.00
ATOM	1517	CD1	TRP	X	98	29.156	38.880	22.749	0.00	0.00
ATOM	1518	HD1	TRP	X	98	28.453	38.427	22.065	0.00	0.00

ATOM	1519	NE1	TRP	X	98	30.534	38.946	22.574	0.00	0.00
ATOM	1520	HE1	TRP	X	98	31.072	38.603	21.791	0.00	0.00
ATOM	1521	CE2	TRP	X	98	31.216	39.587	23.553	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	32.526	39.959	23.816	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	33.305	39.827	23.080	0.00	0.00
ATOM	1524	CH2	TRP	X	98	32.866	40.579	25.014	0.00	0.00
ATOM	1525	HH2	TRP	X	98	33.874	40.949	25.133	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	31.857	41.029	25.863	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	32.212	41.490	26.773	0.00	0.00
ATOM	1528	CE3	TRP	X	98	30.458	40.744	25.612	0.00	0.00
ATOM	1529	HE3	TRP	X	98	29.671	41.091	26.265	0.00	0.00
ATOM	1530	CD2	TRP	X	98	30.148	40.031	24.439	0.00	0.00
ATOM	1531	C	TRP	X	98	25.171	40.256	24.927	0.00	0.00
ATOM	1532	O	TRP	X	98	24.869	40.045	26.147	0.00	0.00
ATOM	1533	N	THR	X	99	24.301	40.164	23.921	0.00	0.00
ATOM	1534	H	THR	X	99	24.663	40.293	22.987	0.00	0.00
ATOM	1535	CA	THR	X	99	22.914	39.783	24.093	0.00	0.00
ATOM	1536	HA	THR	X	99	22.826	39.144	24.971	0.00	0.00
ATOM	1537	CB	THR	X	99	21.959	41.022	24.238	0.00	0.00
ATOM	1538	HB	THR	X	99	22.227	41.537	25.160	0.00	0.00
ATOM	1539	CG2	THR	X	99	22.121	41.977	23.060	0.00	0.00
ATOM	1540	HG21	THR	X	99	23.059	42.510	23.215	0.00	0.00
ATOM	1541	HG22	THR	X	99	21.270	42.654	23.129	0.00	0.00
ATOM	1542	HG23	THR	X	99	22.075	41.371	22.155	0.00	0.00
ATOM	1543	OG1	THR	X	99	20.649	40.461	24.229	0.00	0.00
ATOM	1544	HG1	THR	X	99	20.158	41.230	24.525	0.00	0.00
ATOM	1545	C	THR	X	99	22.541	38.911	22.839	0.00	0.00
ATOM	1546	O	THR	X	99	23.307	39.122	21.874	0.00	0.00
ATOM	1547	N	PRO	X	100	21.627	37.927	22.800	0.00	0.00
ATOM	1548	CD	PRO	X	100	20.784	37.496	23.930	0.00	0.00
ATOM	1549	HD2	PRO	X	100	19.903	38.137	23.947	0.00	0.00
ATOM	1550	HD3	PRO	X	100	21.309	37.531	24.884	0.00	0.00
ATOM	1551	CG	PRO	X	100	20.429	36.070	23.607	0.00	0.00
ATOM	1552	HG2	PRO	X	100	19.448	35.848	24.025	0.00	0.00
ATOM	1553	HG3	PRO	X	100	21.229	35.441	23.999	0.00	0.00
ATOM	1554	CB	PRO	X	100	20.413	35.996	22.112	0.00	0.00
ATOM	1555	HB2	PRO	X	100	19.487	36.284	21.614	0.00	0.00
ATOM	1556	HB3	PRO	X	100	20.697	35.007	21.753	0.00	0.00
ATOM	1557	CA	PRO	X	100	21.477	36.988	21.672	0.00	0.00
ATOM	1558	HA	PRO	X	100	22.424	36.460	21.556	0.00	0.00
ATOM	1559	C	PRO	X	100	21.020	37.768	20.394	0.00	0.00
ATOM	1560	O	PRO	X	100	20.674	38.962	20.437	0.00	0.00
ATOM	1561	N	TYR	X	101	21.167	37.170	19.242	0.00	0.00
ATOM	1562	H	TYR	X	101	21.589	36.253	19.272	0.00	0.00
ATOM	1563	CA	TYR	X	101	20.689	37.769	17.987	0.00	0.00
ATOM	1564	HA	TYR	X	101	20.409	38.819	18.066	0.00	0.00
ATOM	1565	CB	TYR	X	101	21.853	37.738	16.986	0.00	0.00
ATOM	1566	HB2	TYR	X	101	22.715	38.319	17.315	0.00	0.00
ATOM	1567	HB3	TYR	X	101	22.226	36.731	16.798	0.00	0.00
ATOM	1568	CG	TYR	X	101	21.513	38.333	15.623	0.00	0.00
ATOM	1569	CD1	TYR	X	101	20.677	37.703	14.664	0.00	0.00
ATOM	1570	HD1	TYR	X	101	20.535	36.633	14.681	0.00	0.00
ATOM	1571	CE1	TYR	X	101	20.144	38.433	13.563	0.00	0.00
ATOM	1572	HE1	TYR	X	101	19.476	37.926	12.883	0.00	0.00
ATOM	1573	CZ	TYR	X	101	20.656	39.706	13.268	0.00	0.00
ATOM	1574	OH	TYR	X	101	20.364	40.302	12.119	0.00	0.00
ATOM	1575	HH	TYR	X	101	19.687	39.806	11.654	0.00	0.00
ATOM	1576	CE2	TYR	X	101	21.649	40.252	14.086	0.00	0.00
ATOM	1577	HE2	TYR	X	101	22.152	41.156	13.778	0.00	0.00
ATOM	1578	CD2	TYR	X	101	21.980	39.586	15.294	0.00	0.00
ATOM	1579	HD2	TYR	X	101	22.603	40.095	16.015	0.00	0.00
ATOM	1580	C	TYR	X	101	19.496	36.896	17.506	0.00	0.00
ATOM	1581	O	TYR	X	101	19.643	35.659	17.560	0.00	0.00
ATOM	1582	N	PRO	X	102	18.411	37.445	16.980	0.00	0.00
ATOM	1583	CD	PRO	X	102	17.215	36.672	16.558	0.00	0.00
ATOM	1584	HD2	PRO	X	102	17.016	35.906	17.307	0.00	0.00
ATOM	1585	HD3	PRO	X	102	17.405	36.211	15.588	0.00	0.00

ATOM	1586	CG	PRO	X	102	16.064	37.617	16.457	0.00	0.00
ATOM	1587	HG2	PRO	X	102	15.559	37.772	17.411	0.00	0.00
ATOM	1588	HG3	PRO	X	102	15.368	37.285	15.687	0.00	0.00
ATOM	1589	CB	PRO	X	102	16.782	38.888	16.054	0.00	0.00
ATOM	1590	HB2	PRO	X	102	16.173	39.782	16.190	0.00	0.00
ATOM	1591	HB3	PRO	X	102	17.037	38.628	15.027	0.00	0.00
ATOM	1592	CA	PRO	X	102	18.036	38.852	16.995	0.00	0.00
ATOM	1593	HA	PRO	X	102	18.838	39.485	16.615	0.00	0.00
ATOM	1594	C	PRO	X	102	17.755	39.276	18.479	0.00	0.00
ATOM	1595	O	PRO	X	102	17.543	38.370	19.351	0.00	0.00
ATOM	1596	N	ARG	X	103	17.758	40.611	18.761	0.00	0.00
ATOM	1597	H	ARG	X	103	17.862	41.152	17.915	0.00	0.00
ATOM	1598	CA	ARG	X	103	17.876	41.192	20.093	0.00	0.00
ATOM	1599	HA	ARG	X	103	18.709	40.686	20.581	0.00	0.00
ATOM	1600	CB	ARG	X	103	18.200	42.638	19.975	0.00	0.00
ATOM	1601	HB2	ARG	X	103	18.917	42.743	19.161	0.00	0.00
ATOM	1602	HB3	ARG	X	103	17.287	43.182	19.733	0.00	0.00
ATOM	1603	CG	ARG	X	103	18.895	43.354	21.220	0.00	0.00
ATOM	1604	HG2	ARG	X	103	18.287	43.328	22.124	0.00	0.00
ATOM	1605	HG3	ARG	X	103	19.797	42.755	21.346	0.00	0.00
ATOM	1606	CD	ARG	X	103	19.271	44.781	20.993	0.00	0.00
ATOM	1607	HD2	ARG	X	103	19.868	45.108	21.844	0.00	0.00
ATOM	1608	HD3	ARG	X	103	19.946	44.865	20.140	0.00	0.00
ATOM	1609	NE	ARG	X	103	18.097	45.669	20.823	0.00	0.00
ATOM	1610	HE	ARG	X	103	17.392	45.598	21.544	0.00	0.00
ATOM	1611	CZ	ARG	X	103	17.904	46.595	19.896	0.00	0.00
ATOM	1612	NH1	ARG	X	103	18.695	46.617	18.829	0.00	0.00
ATOM	1613	HH11	ARG	X	103	19.324	45.832	18.742	0.00	0.00
ATOM	1614	HH12	ARG	X	103	18.667	47.369	18.155	0.00	0.00
ATOM	1615	NH2	ARG	X	103	17.032	47.518	20.111	0.00	0.00
ATOM	1616	HH21	ARG	X	103	16.474	47.606	20.949	0.00	0.00
ATOM	1617	HH22	ARG	X	103	16.863	48.143	19.337	0.00	0.00
ATOM	1618	C	ARG	X	103	16.600	40.978	20.971	0.00	0.00
ATOM	1619	O	ARG	X	103	15.566	41.547	20.600	0.00	0.00
ATOM	1620	N	PRO	X	104	16.704	40.242	22.111	0.00	0.00
ATOM	1621	CD	PRO	X	104	17.833	39.334	22.530	0.00	0.00
ATOM	1622	HD2	PRO	X	104	18.576	39.986	22.989	0.00	0.00
ATOM	1623	HD3	PRO	X	104	18.321	38.932	21.642	0.00	0.00
ATOM	1624	CG	PRO	X	104	17.160	38.315	23.458	0.00	0.00
ATOM	1625	HG2	PRO	X	104	17.914	37.895	24.124	0.00	0.00
ATOM	1626	HG3	PRO	X	104	16.692	37.494	22.916	0.00	0.00
ATOM	1627	CB	PRO	X	104	16.145	39.104	24.236	0.00	0.00
ATOM	1628	HB2	PRO	X	104	16.730	39.718	24.920	0.00	0.00
ATOM	1629	HB3	PRO	X	104	15.462	38.444	24.771	0.00	0.00
ATOM	1630	CA	PRO	X	104	15.527	39.884	23.022	0.00	0.00
ATOM	1631	HA	PRO	X	104	14.858	39.270	22.419	0.00	0.00
ATOM	1632	C	PRO	X	104	14.902	41.241	23.532	0.00	0.00
ATOM	1633	O	PRO	X	104	15.610	42.178	23.813	0.00	0.00
ATOM	1634	N	THR	X	105	13.572	41.234	23.733	0.00	0.00
ATOM	1635	H	THR	X	105	12.968	40.511	23.368	0.00	0.00
ATOM	1636	CA	THR	X	105	12.789	42.318	24.435	0.00	0.00
ATOM	1637	HA	THR	X	105	13.364	43.218	24.652	0.00	0.00
ATOM	1638	CB	THR	X	105	11.634	42.847	23.525	0.00	0.00
ATOM	1639	HB	THR	X	105	11.113	43.665	24.023	0.00	0.00
ATOM	1640	CG2	THR	X	105	12.070	43.437	22.188	0.00	0.00
ATOM	1641	HG21	THR	X	105	11.177	43.528	21.569	0.00	0.00
ATOM	1642	HG22	THR	X	105	12.736	42.770	21.641	0.00	0.00
ATOM	1643	HG23	THR	X	105	12.513	44.411	22.394	0.00	0.00
ATOM	1644	OG1	THR	X	105	10.757	41.718	23.380	0.00	0.00
ATOM	1645	HG1	THR	X	105	9.882	42.104	23.464	0.00	0.00
ATOM	1646	C	THR	X	105	12.275	41.812	25.744	0.00	0.00
ATOM	1647	O	THR	X	105	11.803	42.643	26.527	0.00	0.00
ATOM	1648	N	SER	X	106	12.338	40.510	26.085	0.00	0.00
ATOM	1649	H	SER	X	106	12.845	39.968	25.400	0.00	0.00
ATOM	1650	CA	SER	X	106	12.057	39.830	27.385	0.00	0.00
ATOM	1651	HA	SER	X	106	11.053	40.170	27.640	0.00	0.00
ATOM	1652	CB	SER	X	106	12.028	38.258	27.152	0.00	0.00

ATOM	1653	HB2	SER	X	106	11.725	37.723	28.052	0.00	0.00
ATOM	1654	HB3	SER	X	106	11.264	38.141	26.383	0.00	0.00
ATOM	1655	OG	SER	X	106	13.302	37.873	26.686	0.00	0.00
ATOM	1656	HG	SER	X	106	13.901	38.559	26.989	0.00	0.00
ATOM	1657	C	SER	X	106	13.115	40.120	28.451	0.00	0.00
ATOM	1658	O	SER	X	106	14.286	40.394	28.150	0.00	0.00
ATOM	1659	N	PRO	X	107	12.775	40.244	29.727	0.00	0.00
ATOM	1660	CD	PRO	X	107	11.393	40.067	30.117	0.00	0.00
ATOM	1661	HD2	PRO	X	107	11.085	39.118	29.677	0.00	0.00
ATOM	1662	HD3	PRO	X	107	10.719	40.878	29.843	0.00	0.00
ATOM	1663	CG	PRO	X	107	11.422	39.968	31.644	0.00	0.00
ATOM	1664	HG2	PRO	X	107	11.484	38.911	31.902	0.00	0.00
ATOM	1665	HG3	PRO	X	107	10.503	40.399	32.041	0.00	0.00
ATOM	1666	CB	PRO	X	107	12.731	40.649	32.018	0.00	0.00
ATOM	1667	HB2	PRO	X	107	13.132	40.400	33.001	0.00	0.00
ATOM	1668	HB3	PRO	X	107	12.545	41.723	32.006	0.00	0.00
ATOM	1669	CA	PRO	X	107	13.644	40.368	30.848	0.00	0.00
ATOM	1670	HA	PRO	X	107	14.345	41.183	30.666	0.00	0.00
ATOM	1671	C	PRO	X	107	14.397	39.046	31.098	0.00	0.00
ATOM	1672	O	PRO	X	107	13.801	37.974	30.909	0.00	0.00
ATOM	1673	N	THR	X	108	15.636	39.178	31.455	0.00	0.00
ATOM	1674	H	THR	X	108	16.143	40.049	31.390	0.00	0.00
ATOM	1675	CA	THR	X	108	16.437	38.041	31.975	0.00	0.00
ATOM	1676	HA	THR	X	108	15.787	37.526	32.683	0.00	0.00
ATOM	1677	CB	THR	X	108	16.681	36.955	30.940	0.00	0.00
ATOM	1678	HB	THR	X	108	15.993	37.096	30.106	0.00	0.00
ATOM	1679	CG2	THR	X	108	18.129	36.850	30.326	0.00	0.00
ATOM	1680	HG21	THR	X	108	18.810	36.603	31.142	0.00	0.00
ATOM	1681	HG22	THR	X	108	18.550	37.777	29.937	0.00	0.00
ATOM	1682	HG23	THR	X	108	18.145	36.060	29.575	0.00	0.00
ATOM	1683	OG1	THR	X	108	16.331	35.693	31.523	0.00	0.00
ATOM	1684	HG1	THR	X	108	15.380	35.571	31.500	0.00	0.00
ATOM	1685	C	THR	X	108	17.758	38.604	32.637	0.00	0.00
ATOM	1686	O	THR	X	108	18.165	39.737	32.272	0.00	0.00
ATOM	1687	N	PRO	X	109	18.503	37.766	33.462	0.00	0.00
ATOM	1688	CD	PRO	X	109	18.153	36.505	34.063	0.00	0.00
ATOM	1689	HD2	PRO	X	109	18.541	35.677	33.469	0.00	0.00
ATOM	1690	HD3	PRO	X	109	17.078	36.420	34.224	0.00	0.00
ATOM	1691	CG	PRO	X	109	18.730	36.471	35.413	0.00	0.00
ATOM	1692	HG2	PRO	X	109	19.038	35.513	35.832	0.00	0.00
ATOM	1693	HG3	PRO	X	109	18.020	36.937	36.096	0.00	0.00
ATOM	1694	CB	PRO	X	109	19.990	37.361	35.315	0.00	0.00
ATOM	1695	HB2	PRO	X	109	20.815	36.700	35.050	0.00	0.00
ATOM	1696	HB3	PRO	X	109	20.250	37.904	36.223	0.00	0.00
ATOM	1697	CA	PRO	X	109	19.567	38.398	34.280	0.00	0.00
ATOM	1698	HA	PRO	X	109	19.239	39.295	34.806	0.00	0.00
ATOM	1699	C	PRO	X	109	20.813	38.931	33.577	0.00	0.00
ATOM	1700	O	PRO	X	109	21.293	38.417	32.514	0.00	0.00
ATOM	1701	N	VAL	X	110	21.420	39.944	34.187	0.00	0.00
ATOM	1702	H	VAL	X	110	21.051	40.185	35.096	0.00	0.00
ATOM	1703	CA	VAL	X	110	22.571	40.748	33.810	0.00	0.00
ATOM	1704	HA	VAL	X	110	22.678	40.734	32.726	0.00	0.00
ATOM	1705	CB	VAL	X	110	22.271	42.225	34.215	0.00	0.00
ATOM	1706	HB	VAL	X	110	21.712	42.219	35.150	0.00	0.00
ATOM	1707	CG1	VAL	X	110	23.502	43.132	34.250	0.00	0.00
ATOM	1708	HG11	VAL	X	110	23.229	44.186	34.307	0.00	0.00
ATOM	1709	HG12	VAL	X	110	23.970	42.868	35.198	0.00	0.00
ATOM	1710	HG13	VAL	X	110	24.152	43.033	33.380	0.00	0.00
ATOM	1711	CG2	VAL	X	110	21.192	42.731	33.193	0.00	0.00
ATOM	1712	HG21	VAL	X	110	21.730	43.282	32.421	0.00	0.00
ATOM	1713	HG22	VAL	X	110	20.599	43.407	33.810	0.00	0.00
ATOM	1714	HG23	VAL	X	110	20.502	42.056	32.686	0.00	0.00
ATOM	1715	C	VAL	X	110	23.730	40.152	34.559	0.00	0.00
ATOM	1716	O	VAL	X	110	23.647	40.014	35.793	0.00	0.00
ATOM	1717	N	LEU	X	111	24.794	39.678	33.863	0.00	0.00
ATOM	1718	H	LEU	X	111	24.746	39.596	32.858	0.00	0.00
ATOM	1719	CA	LEU	X	111	26.007	39.262	34.523	0.00	0.00

ATOM	1720	HA	LEU	X	111	25.853	39.171	35.598	0.00	0.00
ATOM	1721	CB	LEU	X	111	26.462	37.893	33.911	0.00	0.00
ATOM	1722	HB2	LEU	X	111	26.621	38.089	32.851	0.00	0.00
ATOM	1723	HB3	LEU	X	111	27.416	37.617	34.362	0.00	0.00
ATOM	1724	CG	LEU	X	111	25.494	36.655	33.914	0.00	0.00
ATOM	1725	HG	LEU	X	111	24.517	36.993	33.568	0.00	0.00
ATOM	1726	CD1	LEU	X	111	25.994	35.535	32.955	0.00	0.00
ATOM	1727	HD11	LEU	X	111	25.254	34.739	33.030	0.00	0.00
ATOM	1728	HD12	LEU	X	111	26.905	35.132	33.396	0.00	0.00
ATOM	1729	HD13	LEU	X	111	26.212	35.756	31.910	0.00	0.00
ATOM	1730	CD2	LEU	X	111	25.300	36.123	35.340	0.00	0.00
ATOM	1731	HD21	LEU	X	111	24.512	35.375	35.254	0.00	0.00
ATOM	1732	HD22	LEU	X	111	26.196	35.607	35.686	0.00	0.00
ATOM	1733	HD23	LEU	X	111	24.954	36.956	35.952	0.00	0.00
ATOM	1734	C	LEU	X	111	27.074	40.337	34.262	0.00	0.00
ATOM	1735	O	LEU	X	111	27.538	40.461	33.105	0.00	0.00
ATOM	1736	N	VAL	X	112	27.606	41.007	35.283	0.00	0.00
ATOM	1737	H	VAL	X	112	27.287	40.725	36.199	0.00	0.00
ATOM	1738	CA	VAL	X	112	28.638	42.047	35.180	0.00	0.00
ATOM	1739	HA	VAL	X	112	28.656	42.355	34.135	0.00	0.00
ATOM	1740	CB	VAL	X	112	28.311	43.425	35.900	0.00	0.00
ATOM	1741	HB	VAL	X	112	28.310	43.399	36.990	0.00	0.00
ATOM	1742	CG1	VAL	X	112	29.208	44.577	35.364	0.00	0.00
ATOM	1743	HG11	VAL	X	112	28.914	45.528	35.808	0.00	0.00
ATOM	1744	HG12	VAL	X	112	30.265	44.541	35.628	0.00	0.00
ATOM	1745	HG13	VAL	X	112	29.160	44.579	34.275	0.00	0.00
ATOM	1746	CG2	VAL	X	112	26.866	43.779	35.613	0.00	0.00
ATOM	1747	HG21	VAL	X	112	26.693	44.047	34.571	0.00	0.00
ATOM	1748	HG22	VAL	X	112	26.474	44.555	36.271	0.00	0.00
ATOM	1749	HG23	VAL	X	112	26.230	42.905	35.755	0.00	0.00
ATOM	1750	C	VAL	X	112	30.012	41.567	35.641	0.00	0.00
ATOM	1751	O	VAL	X	112	30.249	41.203	36.807	0.00	0.00
ATOM	1752	N	TRP	X	113	30.937	41.498	34.672	0.00	0.00
ATOM	1753	H	TRP	X	113	30.613	41.719	33.742	0.00	0.00
ATOM	1754	CA	TRP	X	113	32.228	40.690	34.745	0.00	0.00
ATOM	1755	HA	TRP	X	113	32.107	39.958	35.543	0.00	0.00
ATOM	1756	CB	TRP	X	113	32.604	40.130	33.340	0.00	0.00
ATOM	1757	HB2	TRP	X	113	31.777	39.540	32.946	0.00	0.00
ATOM	1758	HB3	TRP	X	113	32.748	40.963	32.652	0.00	0.00
ATOM	1759	CG	TRP	X	113	33.914	39.419	33.461	0.00	0.00
ATOM	1760	CD1	TRP	X	113	35.118	39.860	32.946	0.00	0.00
ATOM	1761	HD1	TRP	X	113	35.265	40.817	32.467	0.00	0.00
ATOM	1762	NE1	TRP	X	113	36.106	39.038	33.360	0.00	0.00
ATOM	1763	HE1	TRP	X	113	37.084	39.248	33.218	0.00	0.00
ATOM	1764	CE2	TRP	X	113	35.575	38.034	34.158	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	36.170	36.968	34.826	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	37.243	36.878	34.755	0.00	0.00
ATOM	1767	CH2	TRP	X	113	35.432	36.035	35.594	0.00	0.00
ATOM	1768	HH2	TRP	X	113	35.935	35.172	36.004	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	34.091	36.217	35.712	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	33.424	35.573	36.266	0.00	0.00
ATOM	1771	CE3	TRP	X	113	33.522	37.431	35.111	0.00	0.00
ATOM	1772	HE3	TRP	X	113	32.490	37.702	35.282	0.00	0.00
ATOM	1773	CD2	TRP	X	113	34.237	38.308	34.298	0.00	0.00
ATOM	1774	C	TRP	X	113	33.330	41.588	35.240	0.00	0.00
ATOM	1775	O	TRP	X	113	33.600	42.675	34.669	0.00	0.00
ATOM	1776	N	ILE	X	114	34.109	41.065	36.189	0.00	0.00
ATOM	1777	H	ILE	X	114	33.910	40.196	36.664	0.00	0.00
ATOM	1778	CA	ILE	X	114	35.241	41.841	36.806	0.00	0.00
ATOM	1779	HA	ILE	X	114	35.474	42.658	36.123	0.00	0.00
ATOM	1780	CB	ILE	X	114	34.844	42.411	38.189	0.00	0.00
ATOM	1781	HB	ILE	X	114	34.939	41.627	38.941	0.00	0.00
ATOM	1782	CG2	ILE	X	114	35.762	43.642	38.526	0.00	0.00
ATOM	1783	HG21	ILE	X	114	35.804	44.351	37.699	0.00	0.00
ATOM	1784	HG22	ILE	X	114	36.711	43.168	38.776	0.00	0.00
ATOM	1785	HG23	ILE	X	114	35.415	44.144	39.429	0.00	0.00
ATOM	1786	CG1	ILE	X	114	33.286	42.758	38.254	0.00	0.00

ATOM	1787	HG12	ILE	X	114	33.071	43.541	37.527	0.00	0.00
ATOM	1788	HG13	ILE	X	114	32.681	41.872	38.059	0.00	0.00
ATOM	1789	CD1	ILE	X	114	32.778	43.376	39.578	0.00	0.00
ATOM	1790	HD11	ILE	X	114	33.168	44.391	39.652	0.00	0.00
ATOM	1791	HD12	ILE	X	114	33.352	42.939	40.395	0.00	0.00
ATOM	1792	HD13	ILE	X	114	31.695	43.485	39.632	0.00	0.00
ATOM	1793	C	ILE	X	114	36.476	40.891	36.944	0.00	0.00
ATOM	1794	O	ILE	X	114	36.348	39.916	37.628	0.00	0.00
ATOM	1795	N	TYR	X	115	37.619	41.210	36.380	0.00	0.00
ATOM	1796	H	TYR	X	115	37.609	41.996	35.746	0.00	0.00
ATOM	1797	CA	TYR	X	115	38.754	40.271	36.220	0.00	0.00
ATOM	1798	HA	TYR	X	115	38.372	39.281	36.470	0.00	0.00
ATOM	1799	CB	TYR	X	115	39.241	40.360	34.762	0.00	0.00
ATOM	1800	HB2	TYR	X	115	40.219	39.892	34.655	0.00	0.00
ATOM	1801	HB3	TYR	X	115	38.578	39.851	34.062	0.00	0.00
ATOM	1802	CG	TYR	X	115	39.366	41.741	34.165	0.00	0.00
ATOM	1803	CD1	TYR	X	115	40.299	42.679	34.723	0.00	0.00
ATOM	1804	HD1	TYR	X	115	40.977	42.415	35.521	0.00	0.00
ATOM	1805	CE1	TYR	X	115	40.268	43.967	34.271	0.00	0.00
ATOM	1806	HE1	TYR	X	115	40.977	44.719	34.585	0.00	0.00
ATOM	1807	CZ	TYR	X	115	39.279	44.418	33.338	0.00	0.00
ATOM	1808	OH	TYR	X	115	39.137	45.789	33.060	0.00	0.00
ATOM	1809	HH	TYR	X	115	38.262	45.910	32.685	0.00	0.00
ATOM	1810	CE2	TYR	X	115	38.378	43.462	32.835	0.00	0.00
ATOM	1811	HE2	TYR	X	115	37.607	43.818	32.167	0.00	0.00
ATOM	1812	CD2	TYR	X	115	38.466	42.101	33.219	0.00	0.00
ATOM	1813	HD2	TYR	X	115	37.781	41.413	32.747	0.00	0.00
ATOM	1814	C	TYR	X	115	39.891	40.574	37.244	0.00	0.00
ATOM	1815	O	TYR	X	115	40.053	41.649	37.810	0.00	0.00
ATOM	1816	N	GLY	X	116	40.692	39.531	37.386	0.00	0.00
ATOM	1817	H	GLY	X	116	40.402	38.659	36.965	0.00	0.00
ATOM	1818	CA	GLY	X	116	42.012	39.481	38.089	0.00	0.00
ATOM	1819	HA2	GLY	X	116	41.908	39.855	39.107	0.00	0.00
ATOM	1820	HA3	GLY	X	116	42.366	38.451	38.121	0.00	0.00
ATOM	1821	C	GLY	X	116	43.101	40.362	37.438	0.00	0.00
ATOM	1822	O	GLY	X	116	42.912	41.054	36.460	0.00	0.00
ATOM	1823	N	GLY	X	117	44.300	40.322	38.041	0.00	0.00
ATOM	1824	H	GLY	X	117	44.381	39.571	38.713	0.00	0.00
ATOM	1825	CA	GLY	X	117	45.481	41.080	37.674	0.00	0.00
ATOM	1826	HA2	GLY	X	117	46.260	40.411	37.310	0.00	0.00
ATOM	1827	HA3	GLY	X	117	45.216	41.773	36.875	0.00	0.00
ATOM	1828	C	GLY	X	117	45.942	41.922	38.880	0.00	0.00
ATOM	1829	O	GLY	X	117	46.694	42.883	38.711	0.00	0.00
ATOM	1830	N	GLY	X	118	45.555	41.499	40.065	0.00	0.00
ATOM	1831	H	GLY	X	118	44.938	40.701	40.108	0.00	0.00
ATOM	1832	CA	GLY	X	118	46.322	41.939	41.299	0.00	0.00
ATOM	1833	HA2	GLY	X	118	45.951	41.269	42.074	0.00	0.00
ATOM	1834	HA3	GLY	X	118	47.397	41.819	41.158	0.00	0.00
ATOM	1835	C	GLY	X	118	46.112	43.374	41.672	0.00	0.00
ATOM	1836	O	GLY	X	118	46.887	43.838	42.439	0.00	0.00
ATOM	1837	N	PHE	X	119	45.124	43.982	41.096	0.00	0.00
ATOM	1838	H	PHE	X	119	44.584	43.341	40.532	0.00	0.00
ATOM	1839	CA	PHE	X	119	44.801	45.351	41.068	0.00	0.00
ATOM	1840	HA	PHE	X	119	43.807	45.468	40.636	0.00	0.00
ATOM	1841	CB	PHE	X	119	44.504	45.939	42.438	0.00	0.00
ATOM	1842	HB2	PHE	X	119	45.366	45.800	43.090	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.285	46.999	42.316	0.00	0.00
ATOM	1844	CG	PHE	X	119	43.251	45.395	43.168	0.00	0.00
ATOM	1845	CD1	PHE	X	119	42.023	45.981	43.097	0.00	0.00
ATOM	1846	HD1	PHE	X	119	41.921	46.801	42.403	0.00	0.00
ATOM	1847	CE1	PHE	X	119	40.898	45.493	43.700	0.00	0.00
ATOM	1848	HE1	PHE	X	119	39.921	45.915	43.514	0.00	0.00
ATOM	1849	CZ	PHE	X	119	40.999	44.422	44.562	0.00	0.00
ATOM	1850	HZ	PHE	X	119	40.104	43.954	44.944	0.00	0.00
ATOM	1851	CE2	PHE	X	119	42.303	43.834	44.731	0.00	0.00
ATOM	1852	HE2	PHE	X	119	42.408	42.983	45.388	0.00	0.00
ATOM	1853	CD2	PHE	X	119	43.429	44.334	44.025	0.00	0.00

ATOM	1854	HD2	PHE	X	119	44.351	43.781	44.125	0.00	0.00
ATOM	1855	C	PHE	X	119	45.838	46.233	40.267	0.00	0.00
ATOM	1856	O	PHE	X	119	45.574	47.434	40.128	0.00	0.00
ATOM	1857	N	TYR	X	120	47.016	45.683	39.860	0.00	0.00
ATOM	1858	H	TYR	X	120	47.210	44.720	40.095	0.00	0.00
ATOM	1859	CA	TYR	X	120	47.869	46.395	38.967	0.00	0.00
ATOM	1860	HA	TYR	X	120	47.694	47.449	39.178	0.00	0.00
ATOM	1861	CB	TYR	X	120	49.382	46.174	39.379	0.00	0.00
ATOM	1862	HB2	TYR	X	120	49.956	47.017	38.995	0.00	0.00
ATOM	1863	HB3	TYR	X	120	49.437	46.157	40.467	0.00	0.00
ATOM	1864	CG	TYR	X	120	49.981	44.873	38.862	0.00	0.00
ATOM	1865	CD1	TYR	X	120	50.604	44.803	37.599	0.00	0.00
ATOM	1866	HD1	TYR	X	120	50.643	45.684	36.975	0.00	0.00
ATOM	1867	CE1	TYR	X	120	51.021	43.603	37.090	0.00	0.00
ATOM	1868	HE1	TYR	X	120	51.519	43.607	36.131	0.00	0.00
ATOM	1869	CZ	TYR	X	120	50.761	42.379	37.786	0.00	0.00
ATOM	1870	OH	TYR	X	120	51.131	41.167	37.296	0.00	0.00
ATOM	1871	HH	TYR	X	120	51.448	41.219	36.391	0.00	0.00
ATOM	1872	CE2	TYR	X	120	50.097	42.479	39.031	0.00	0.00
ATOM	1873	HE2	TYR	X	120	49.992	41.521	39.518	0.00	0.00
ATOM	1874	CD2	TYR	X	120	49.638	43.663	39.598	0.00	0.00
ATOM	1875	HD2	TYR	X	120	48.995	43.659	40.466	0.00	0.00
ATOM	1876	C	TYR	X	120	47.617	46.213	37.508	0.00	0.00
ATOM	1877	O	TYR	X	120	48.230	46.869	36.648	0.00	0.00
ATOM	1878	N	SER	X	121	46.760	45.239	37.115	0.00	0.00
ATOM	1879	H	SER	X	121	46.294	44.605	37.748	0.00	0.00
ATOM	1880	CA	SER	X	121	46.578	44.936	35.688	0.00	0.00
ATOM	1881	HA	SER	X	121	46.756	45.831	35.093	0.00	0.00
ATOM	1882	CB	SER	X	121	47.729	43.976	35.319	0.00	0.00
ATOM	1883	HB2	SER	X	121	47.688	43.561	34.312	0.00	0.00
ATOM	1884	HB3	SER	X	121	48.681	44.508	35.325	0.00	0.00
ATOM	1885	OG	SER	X	121	47.732	42.817	36.120	0.00	0.00
ATOM	1886	HG	SER	X	121	47.812	43.121	37.027	0.00	0.00
ATOM	1887	C	SER	X	121	45.244	44.282	35.310	0.00	0.00
ATOM	1888	O	SER	X	121	44.487	44.144	36.254	0.00	0.00
ATOM	1889	N	GLY	X	122	45.008	43.993	34.000	0.00	0.00
ATOM	1890	H	GLY	X	122	45.739	44.174	33.328	0.00	0.00
ATOM	1891	CA	GLY	X	122	43.816	43.204	33.578	0.00	0.00
ATOM	1892	HA2	GLY	X	122	44.102	42.216	33.216	0.00	0.00
ATOM	1893	HA3	GLY	X	122	43.194	43.108	34.468	0.00	0.00
ATOM	1894	C	GLY	X	122	43.110	43.864	32.415	0.00	0.00
ATOM	1895	O	GLY	X	122	43.370	45.022	32.119	0.00	0.00
ATOM	1896	N	ALA	X	123	42.165	43.192	31.828	0.00	0.00
ATOM	1897	H	ALA	X	123	41.981	42.259	32.170	0.00	0.00
ATOM	1898	CA	ALA	X	123	41.416	43.686	30.717	0.00	0.00
ATOM	1899	HA	ALA	X	123	41.173	44.735	30.890	0.00	0.00
ATOM	1900	CB	ALA	X	123	42.275	43.725	29.483	0.00	0.00
ATOM	1901	HB1	ALA	X	123	42.467	42.723	29.098	0.00	0.00
ATOM	1902	HB2	ALA	X	123	43.236	44.104	29.831	0.00	0.00
ATOM	1903	HB3	ALA	X	123	41.849	44.347	28.696	0.00	0.00
ATOM	1904	C	ALA	X	123	40.071	42.970	30.292	0.00	0.00
ATOM	1905	O	ALA	X	123	39.979	41.729	30.364	0.00	0.00
ATOM	1906	N	SER	X	124	39.092	43.829	29.855	0.00	0.00
ATOM	1907	H	SER	X	124	39.206	44.830	29.926	0.00	0.00
ATOM	1908	CA	SER	X	124	37.795	43.418	29.315	0.00	0.00
ATOM	1909	HA	SER	X	124	37.333	42.699	29.992	0.00	0.00
ATOM	1910	CB	SER	X	124	36.892	44.596	29.261	0.00	0.00
ATOM	1911	HB2	SER	X	124	35.899	44.307	28.918	0.00	0.00
ATOM	1912	HB3	SER	X	124	36.778	45.014	30.261	0.00	0.00
ATOM	1913	OG	SER	X	124	37.390	45.560	28.342	0.00	0.00
ATOM	1914	HG	SER	X	124	38.082	46.080	28.758	0.00	0.00
ATOM	1915	C	SER	X	124	37.840	42.720	27.936	0.00	0.00
ATOM	1916	O	SER	X	124	36.932	41.937	27.632	0.00	0.00
ATOM	1917	N	SER	X	125	38.896	42.927	27.123	0.00	0.00
ATOM	1918	H	SER	X	125	39.694	43.341	27.583	0.00	0.00
ATOM	1919	CA	SER	X	125	39.024	42.532	25.784	0.00	0.00
ATOM	1920	HA	SER	X	125	38.047	42.454	25.308	0.00	0.00

ATOM	1921	CB	SER	X	125	39.891	43.568	25.119	0.00	0.00
ATOM	1922	HB2	SER	X	125	39.958	43.403	24.044	0.00	0.00
ATOM	1923	HB3	SER	X	125	39.308	44.465	25.328	0.00	0.00
ATOM	1924	OG	SER	X	125	41.139	43.712	25.771	0.00	0.00
ATOM	1925	HG	SER	X	125	41.804	43.170	25.342	0.00	0.00
ATOM	1926	C	SER	X	125	39.700	41.161	25.532	0.00	0.00
ATOM	1927	O	SER	X	125	39.734	40.710	24.321	0.00	0.00
ATOM	1928	N	LEU	X	126	40.191	40.522	26.572	0.00	0.00
ATOM	1929	H	LEU	X	126	40.225	41.004	27.459	0.00	0.00
ATOM	1930	CA	LEU	X	126	40.833	39.189	26.493	0.00	0.00
ATOM	1931	HA	LEU	X	126	41.590	39.240	25.710	0.00	0.00
ATOM	1932	CB	LEU	X	126	41.430	38.866	27.915	0.00	0.00
ATOM	1933	HB2	LEU	X	126	40.594	38.715	28.598	0.00	0.00
ATOM	1934	HB3	LEU	X	126	41.846	37.865	27.805	0.00	0.00
ATOM	1935	CG	LEU	X	126	42.425	39.850	28.456	0.00	0.00
ATOM	1936	HG	LEU	X	126	42.017	40.829	28.710	0.00	0.00
ATOM	1937	CD1	LEU	X	126	43.081	39.351	29.734	0.00	0.00
ATOM	1938	HD11	LEU	X	126	42.410	39.038	30.534	0.00	0.00
ATOM	1939	HD12	LEU	X	126	43.695	40.090	30.249	0.00	0.00
ATOM	1940	HD13	LEU	X	126	43.732	38.497	29.545	0.00	0.00
ATOM	1941	CD2	LEU	X	126	43.590	40.159	27.461	0.00	0.00
ATOM	1942	HD21	LEU	X	126	44.376	40.741	27.944	0.00	0.00
ATOM	1943	HD22	LEU	X	126	44.089	39.197	27.344	0.00	0.00
ATOM	1944	HD23	LEU	X	126	43.241	40.533	26.499	0.00	0.00
ATOM	1945	C	LEU	X	126	39.848	38.169	26.012	0.00	0.00
ATOM	1946	O	LEU	X	126	38.769	38.060	26.594	0.00	0.00
ATOM	1947	N	ASP	X	127	40.268	37.330	25.020	0.00	0.00
ATOM	1948	H	ASP	X	127	41.123	37.579	24.543	0.00	0.00
ATOM	1949	CA	ASP	X	127	39.409	36.349	24.368	0.00	0.00
ATOM	1950	HA	ASP	X	127	38.647	36.892	23.809	0.00	0.00
ATOM	1951	CB	ASP	X	127	40.335	35.513	23.353	0.00	0.00
ATOM	1952	HB2	ASP	X	127	41.339	35.452	23.774	0.00	0.00
ATOM	1953	HB3	ASP	X	127	39.855	34.544	23.212	0.00	0.00
ATOM	1954	CG	ASP	X	127	40.504	36.183	21.888	0.00	0.00
ATOM	1955	OD1	ASP	X	127	41.530	36.952	21.705	0.00	0.00
ATOM	1956	OD2	ASP	X	127	39.752	35.870	20.943	0.00	0.00
ATOM	1957	C	ASP	X	127	38.654	35.398	25.284	0.00	0.00
ATOM	1958	O	ASP	X	127	37.568	34.970	24.940	0.00	0.00
ATOM	1959	N	VAL	X	128	39.228	35.124	26.447	0.00	0.00
ATOM	1960	H	VAL	X	128	40.156	35.468	26.648	0.00	0.00
ATOM	1961	CA	VAL	X	128	38.639	34.168	27.364	0.00	0.00
ATOM	1962	HA	VAL	X	128	38.304	33.399	26.668	0.00	0.00
ATOM	1963	CB	VAL	X	128	39.762	33.568	28.125	0.00	0.00
ATOM	1964	HB	VAL	X	128	40.645	33.515	27.488	0.00	0.00
ATOM	1965	CG1	VAL	X	128	40.083	34.350	29.424	0.00	0.00
ATOM	1966	HG11	VAL	X	128	39.954	35.399	29.158	0.00	0.00
ATOM	1967	HG12	VAL	X	128	39.365	34.114	30.210	0.00	0.00
ATOM	1968	HG13	VAL	X	128	41.068	34.141	29.842	0.00	0.00
ATOM	1969	CG2	VAL	X	128	39.536	32.092	28.509	0.00	0.00
ATOM	1970	HG21	VAL	X	128	40.385	31.489	28.831	0.00	0.00
ATOM	1971	HG22	VAL	X	128	39.111	31.591	27.640	0.00	0.00
ATOM	1972	HG23	VAL	X	128	38.887	32.058	29.384	0.00	0.00
ATOM	1973	C	VAL	X	128	37.472	34.697	28.239	0.00	0.00
ATOM	1974	O	VAL	X	128	36.774	33.917	28.871	0.00	0.00
ATOM	1975	N	TYR	X	129	37.079	35.985	28.090	0.00	0.00
ATOM	1976	H	TYR	X	129	37.748	36.655	27.740	0.00	0.00
ATOM	1977	CA	TYR	X	129	35.937	36.583	28.738	0.00	0.00
ATOM	1978	HA	TYR	X	129	35.434	35.867	29.388	0.00	0.00
ATOM	1979	CB	TYR	X	129	36.345	37.897	29.459	0.00	0.00
ATOM	1980	HB2	TYR	X	129	36.650	38.604	28.687	0.00	0.00
ATOM	1981	HB3	TYR	X	129	35.407	38.218	29.909	0.00	0.00
ATOM	1982	CG	TYR	X	129	37.446	37.808	30.501	0.00	0.00
ATOM	1983	CD1	TYR	X	129	37.494	36.677	31.389	0.00	0.00
ATOM	1984	HD1	TYR	X	129	36.761	35.892	31.275	0.00	0.00
ATOM	1985	CE1	TYR	X	129	38.422	36.611	32.422	0.00	0.00
ATOM	1986	HE1	TYR	X	129	38.320	35.836	33.167	0.00	0.00
ATOM	1987	CZ	TYR	X	129	39.522	37.527	32.487	0.00	0.00

ATOM	1988	OH	TYR	X	129	40.454	37.553	33.503	0.00	0.00
ATOM	1989	HH	TYR	X	129	40.139	37.300	34.374	0.00	0.00
ATOM	1990	CE2	TYR	X	129	39.576	38.618	31.535	0.00	0.00
ATOM	1991	HE2	TYR	X	129	40.345	39.374	31.589	0.00	0.00
ATOM	1992	CD2	TYR	X	129	38.539	38.713	30.568	0.00	0.00
ATOM	1993	HD2	TYR	X	129	38.611	39.505	29.837	0.00	0.00
ATOM	1994	C	TYR	X	129	34.904	36.945	27.641	0.00	0.00
ATOM	1995	O	TYR	X	129	34.051	37.790	27.879	0.00	0.00
ATOM	1996	N	ASP	X	130	35.041	36.545	26.410	0.00	0.00
ATOM	1997	H	ASP	X	130	35.890	36.093	26.100	0.00	0.00
ATOM	1998	CA	ASP	X	130	34.041	36.754	25.301	0.00	0.00
ATOM	1999	HA	ASP	X	130	33.763	37.806	25.238	0.00	0.00
ATOM	2000	CB	ASP	X	130	34.549	36.395	23.939	0.00	0.00
ATOM	2001	HB2	ASP	X	130	35.481	36.947	23.823	0.00	0.00
ATOM	2002	HB3	ASP	X	130	34.713	35.326	23.805	0.00	0.00
ATOM	2003	CG	ASP	X	130	33.500	36.831	22.819	0.00	0.00
ATOM	2004	OD1	ASP	X	130	32.437	36.139	22.588	0.00	0.00
ATOM	2005	OD2	ASP	X	130	33.868	37.676	21.970	0.00	0.00
ATOM	2006	C	ASP	X	130	32.781	35.948	25.614	0.00	0.00
ATOM	2007	O	ASP	X	130	32.921	34.757	25.898	0.00	0.00
ATOM	2008	N	GLY	X	131	31.581	36.448	25.347	0.00	0.00
ATOM	2009	H	GLY	X	131	31.508	37.421	25.088	0.00	0.00
ATOM	2010	CA	GLY	X	131	30.336	35.802	25.796	0.00	0.00
ATOM	2011	HA2	GLY	X	131	30.497	35.096	26.611	0.00	0.00
ATOM	2012	HA3	GLY	X	131	29.633	36.564	26.132	0.00	0.00
ATOM	2013	C	GLY	X	131	29.604	34.915	24.760	0.00	0.00
ATOM	2014	O	GLY	X	131	28.590	34.217	25.132	0.00	0.00
ATOM	2015	N	ARG	X	132	30.005	34.834	23.488	0.00	0.00
ATOM	2016	H	ARG	X	132	30.701	35.489	23.161	0.00	0.00
ATOM	2017	CA	ARG	X	132	29.305	34.111	22.427	0.00	0.00
ATOM	2018	HA	ARG	X	132	28.491	34.707	22.015	0.00	0.00
ATOM	2019	CB	ARG	X	132	30.195	34.004	21.146	0.00	0.00
ATOM	2020	HB2	ARG	X	132	29.580	33.626	20.330	0.00	0.00
ATOM	2021	HB3	ARG	X	132	30.379	35.039	20.858	0.00	0.00
ATOM	2022	CG	ARG	X	132	31.499	33.186	21.316	0.00	0.00
ATOM	2023	HG2	ARG	X	132	32.097	33.509	22.168	0.00	0.00
ATOM	2024	HG3	ARG	X	132	31.245	32.129	21.391	0.00	0.00
ATOM	2025	CD	ARG	X	132	32.446	33.340	20.071	0.00	0.00
ATOM	2026	HD2	ARG	X	132	33.267	32.663	20.307	0.00	0.00
ATOM	2027	HD3	ARG	X	132	31.956	32.996	19.160	0.00	0.00
ATOM	2028	NE	ARG	X	132	33.072	34.647	20.098	0.00	0.00
ATOM	2029	HE	ARG	X	132	32.819	35.289	20.836	0.00	0.00
ATOM	2030	CZ	ARG	X	132	33.552	35.306	19.026	0.00	0.00
ATOM	2031	NH1	ARG	X	132	33.574	34.819	17.836	0.00	0.00
ATOM	2032	HH11	ARG	X	132	33.338	33.865	17.605	0.00	0.00
ATOM	2033	HH12	ARG	X	132	33.740	35.499	17.107	0.00	0.00
ATOM	2034	NH2	ARG	X	132	33.834	36.578	19.183	0.00	0.00
ATOM	2035	HH21	ARG	X	132	33.589	37.029	20.053	0.00	0.00
ATOM	2036	HH22	ARG	X	132	34.590	36.997	18.661	0.00	0.00
ATOM	2037	C	ARG	X	132	28.713	32.760	22.838	0.00	0.00
ATOM	2038	O	ARG	X	132	27.461	32.586	22.765	0.00	0.00
ATOM	2039	N	PHE	X	133	29.446	31.743	23.320	0.00	0.00
ATOM	2040	H	PHE	X	133	30.448	31.831	23.228	0.00	0.00
ATOM	2041	CA	PHE	X	133	28.894	30.451	23.705	0.00	0.00
ATOM	2042	HA	PHE	X	133	28.168	30.095	22.974	0.00	0.00
ATOM	2043	CB	PHE	X	133	30.007	29.414	23.967	0.00	0.00
ATOM	2044	HB2	PHE	X	133	30.699	29.674	24.768	0.00	0.00
ATOM	2045	HB3	PHE	X	133	29.553	28.490	24.325	0.00	0.00
ATOM	2046	CG	PHE	X	133	30.784	29.125	22.750	0.00	0.00
ATOM	2047	CD1	PHE	X	133	32.037	29.669	22.582	0.00	0.00
ATOM	2048	HD1	PHE	X	133	32.328	30.228	23.459	0.00	0.00
ATOM	2049	CE1	PHE	X	133	32.602	29.786	21.365	0.00	0.00
ATOM	2050	HE1	PHE	X	133	33.572	30.252	21.275	0.00	0.00
ATOM	2051	CZ	PHE	X	133	32.146	29.100	20.275	0.00	0.00
ATOM	2052	HZ	PHE	X	133	32.746	29.163	19.379	0.00	0.00
ATOM	2053	CE2	PHE	X	133	30.888	28.445	20.373	0.00	0.00
ATOM	2054	HE2	PHE	X	133	30.360	27.966	19.562	0.00	0.00

ATOM	2055	CD2	PHE	X	133	30.221	28.452	21.585	0.00	0.00
ATOM	2056	HD2	PHE	X	133	29.203	28.096	21.651	0.00	0.00
ATOM	2057	C	PHE	X	133	27.911	30.395	24.961	0.00	0.00
ATOM	2058	O	PHE	X	133	26.815	29.838	24.846	0.00	0.00
ATOM	2059	N	LEU	X	134	28.340	31.101	25.983	0.00	0.00
ATOM	2060	H	LEU	X	134	29.253	31.517	25.870	0.00	0.00
ATOM	2061	CA	LEU	X	134	27.554	31.286	27.165	0.00	0.00
ATOM	2062	HA	LEU	X	134	27.214	30.300	27.482	0.00	0.00
ATOM	2063	CB	LEU	X	134	28.309	32.004	28.284	0.00	0.00
ATOM	2064	HB2	LEU	X	134	29.123	31.383	28.658	0.00	0.00
ATOM	2065	HB3	LEU	X	134	28.789	32.840	27.775	0.00	0.00
ATOM	2066	CG	LEU	X	134	27.536	32.666	29.483	0.00	0.00
ATOM	2067	HG	LEU	X	134	26.586	33.123	29.206	0.00	0.00
ATOM	2068	CD1	LEU	X	134	27.053	31.620	30.506	0.00	0.00
ATOM	2069	HD11	LEU	X	134	26.419	32.078	31.264	0.00	0.00
ATOM	2070	HD12	LEU	X	134	27.938	31.166	30.952	0.00	0.00
ATOM	2071	HD13	LEU	X	134	26.375	30.851	30.136	0.00	0.00
ATOM	2072	CD2	LEU	X	134	28.301	33.843	30.140	0.00	0.00
ATOM	2073	HD21	LEU	X	134	28.347	34.686	29.450	0.00	0.00
ATOM	2074	HD22	LEU	X	134	27.869	34.146	31.095	0.00	0.00
ATOM	2075	HD23	LEU	X	134	29.273	33.418	30.388	0.00	0.00
ATOM	2076	C	LEU	X	134	26.307	32.043	26.794	0.00	0.00
ATOM	2077	O	LEU	X	134	25.247	31.568	27.201	0.00	0.00
ATOM	2078	N	VAL	X	135	26.379	33.215	26.153	0.00	0.00
ATOM	2079	H	VAL	X	135	27.336	33.522	26.052	0.00	0.00
ATOM	2080	CA	VAL	X	135	25.197	34.036	25.837	0.00	0.00
ATOM	2081	HA	VAL	X	135	24.660	34.028	26.786	0.00	0.00
ATOM	2082	CB	VAL	X	135	25.535	35.471	25.407	0.00	0.00
ATOM	2083	HB	VAL	X	135	26.148	35.505	24.506	0.00	0.00
ATOM	2084	CG1	VAL	X	135	24.214	36.192	25.015	0.00	0.00
ATOM	2085	HG11	VAL	X	135	23.367	35.766	25.552	0.00	0.00
ATOM	2086	HG12	VAL	X	135	24.226	37.276	25.131	0.00	0.00
ATOM	2087	HG13	VAL	X	135	24.047	35.998	23.955	0.00	0.00
ATOM	2088	CG2	VAL	X	135	26.277	36.338	26.409	0.00	0.00
ATOM	2089	HG21	VAL	X	135	25.684	36.453	27.317	0.00	0.00
ATOM	2090	HG22	VAL	X	135	26.356	37.362	26.043	0.00	0.00
ATOM	2091	HG23	VAL	X	135	27.257	35.952	26.688	0.00	0.00
ATOM	2092	C	VAL	X	135	24.302	33.250	24.838	0.00	0.00
ATOM	2093	O	VAL	X	135	23.084	33.255	24.950	0.00	0.00
ATOM	2094	N	GLN	X	136	24.818	32.442	23.868	0.00	0.00
ATOM	2095	H	GLN	X	136	25.825	32.360	23.840	0.00	0.00
ATOM	2096	CA	GLN	X	136	23.949	31.738	22.945	0.00	0.00
ATOM	2097	HA	GLN	X	136	23.166	32.411	22.597	0.00	0.00
ATOM	2098	CB	GLN	X	136	24.801	31.244	21.871	0.00	0.00
ATOM	2099	HB2	GLN	X	136	25.313	32.106	21.441	0.00	0.00
ATOM	2100	HB3	GLN	X	136	25.541	30.643	22.399	0.00	0.00
ATOM	2101	CG	GLN	X	136	23.985	30.600	20.713	0.00	0.00
ATOM	2102	HG2	GLN	X	136	23.054	31.150	20.573	0.00	0.00
ATOM	2103	HG3	GLN	X	136	24.522	30.654	19.766	0.00	0.00
ATOM	2104	CD	GLN	X	136	23.680	29.149	20.871	0.00	0.00
ATOM	2105	OE1	GLN	X	136	24.373	28.368	21.463	0.00	0.00
ATOM	2106	NE2	GLN	X	136	22.569	28.713	20.296	0.00	0.00
ATOM	2107	HE21	GLN	X	136	22.149	27.822	20.516	0.00	0.00
ATOM	2108	HE22	GLN	X	136	22.067	29.253	19.607	0.00	0.00
ATOM	2109	C	GLN	X	136	23.142	30.585	23.645	0.00	0.00
ATOM	2110	O	GLN	X	136	22.107	30.212	23.170	0.00	0.00
ATOM	2111	N	ALA	X	137	23.673	30.018	24.724	0.00	0.00
ATOM	2112	H	ALA	X	137	24.480	30.467	25.134	0.00	0.00
ATOM	2113	CA	ALA	X	137	23.060	28.985	25.531	0.00	0.00
ATOM	2114	HA	ALA	X	137	22.501	28.208	25.009	0.00	0.00
ATOM	2115	CB	ALA	X	137	24.164	28.152	26.267	0.00	0.00
ATOM	2116	HB1	ALA	X	137	23.619	27.444	26.893	0.00	0.00
ATOM	2117	HB2	ALA	X	137	24.686	28.756	27.009	0.00	0.00
ATOM	2118	HB3	ALA	X	137	24.806	27.596	25.584	0.00	0.00
ATOM	2119	C	ALA	X	137	22.049	29.665	26.437	0.00	0.00
ATOM	2120	O	ALA	X	137	20.821	29.665	26.236	0.00	0.00
ATOM	2121	N	GLU	X	138	22.649	30.292	27.460	0.00	0.00

ATOM	2122	H	GLU	X	138	23.647	30.446	27.446	0.00	0.00
ATOM	2123	CA	GLU	X	138	21.876	30.678	28.675	0.00	0.00
ATOM	2124	HA	GLU	X	138	21.100	29.947	28.899	0.00	0.00
ATOM	2125	CB	GLU	X	138	22.813	30.691	29.875	0.00	0.00
ATOM	2126	HB2	GLU	X	138	23.639	31.372	29.666	0.00	0.00
ATOM	2127	HB3	GLU	X	138	22.202	31.082	30.688	0.00	0.00
ATOM	2128	CG	GLU	X	138	23.319	29.358	30.253	0.00	0.00
ATOM	2129	HG2	GLU	X	138	24.039	29.000	29.518	0.00	0.00
ATOM	2130	HG3	GLU	X	138	23.907	29.384	31.170	0.00	0.00
ATOM	2131	CD	GLU	X	138	22.194	28.362	30.454	0.00	0.00
ATOM	2132	OE1	GLU	X	138	21.416	28.519	31.407	0.00	0.00
ATOM	2133	OE2	GLU	X	138	22.040	27.385	29.649	0.00	0.00
ATOM	2134	C	GLU	X	138	21.102	31.976	28.471	0.00	0.00
ATOM	2135	O	GLU	X	138	20.043	32.153	29.075	0.00	0.00
ATOM	2136	N	ARG	X	139	21.450	32.779	27.511	0.00	0.00
ATOM	2137	H	ARG	X	139	22.291	32.491	27.032	0.00	0.00
ATOM	2138	CA	ARG	X	139	20.652	33.874	26.923	0.00	0.00
ATOM	2139	HA	ARG	X	139	21.163	34.310	26.065	0.00	0.00
ATOM	2140	CB	ARG	X	139	19.440	33.330	26.258	0.00	0.00
ATOM	2141	HB2	ARG	X	139	19.077	32.510	26.877	0.00	0.00
ATOM	2142	HB3	ARG	X	139	18.594	34.016	26.208	0.00	0.00
ATOM	2143	CG	ARG	X	139	19.745	32.723	24.908	0.00	0.00
ATOM	2144	HG2	ARG	X	139	19.869	33.481	24.135	0.00	0.00
ATOM	2145	HG3	ARG	X	139	20.742	32.298	25.025	0.00	0.00
ATOM	2146	CD	ARG	X	139	18.656	31.659	24.550	0.00	0.00
ATOM	2147	HD2	ARG	X	139	18.899	31.086	23.655	0.00	0.00
ATOM	2148	HD3	ARG	X	139	18.596	30.956	25.381	0.00	0.00
ATOM	2149	NE	ARG	X	139	17.389	32.356	24.265	0.00	0.00
ATOM	2150	HE	ARG	X	139	17.354	33.073	23.554	0.00	0.00
ATOM	2151	CZ	ARG	X	139	16.352	32.261	25.099	0.00	0.00
ATOM	2152	NH1	ARG	X	139	16.207	31.409	25.995	0.00	0.00
ATOM	2153	HH11	ARG	X	139	16.706	30.531	26.012	0.00	0.00
ATOM	2154	HH12	ARG	X	139	15.275	31.450	26.383	0.00	0.00
ATOM	2155	NH2	ARG	X	139	15.345	32.997	24.844	0.00	0.00
ATOM	2156	HH21	ARG	X	139	15.318	33.615	24.046	0.00	0.00
ATOM	2157	HH22	ARG	X	139	14.451	32.805	25.273	0.00	0.00
ATOM	2158	C	ARG	X	139	20.534	35.079	27.893	0.00	0.00
ATOM	2159	O	ARG	X	139	19.842	36.032	27.493	0.00	0.00
ATOM	2160	N	THR	X	140	21.184	34.985	29.059	0.00	0.00
ATOM	2161	H	THR	X	140	21.498	34.067	29.339	0.00	0.00
ATOM	2162	CA	THR	X	140	21.587	36.116	29.946	0.00	0.00
ATOM	2163	HA	THR	X	140	20.810	36.501	30.606	0.00	0.00
ATOM	2164	CB	THR	X	140	22.727	35.723	30.910	0.00	0.00
ATOM	2165	HB	THR	X	140	23.364	36.521	31.291	0.00	0.00
ATOM	2166	CG2	THR	X	140	22.183	34.789	32.099	0.00	0.00
ATOM	2167	HG21	THR	X	140	21.167	35.048	32.395	0.00	0.00
ATOM	2168	HG22	THR	X	140	22.860	35.083	32.902	0.00	0.00
ATOM	2169	HG23	THR	X	140	22.284	33.718	31.921	0.00	0.00
ATOM	2170	OG1	THR	X	140	23.577	34.685	30.252	0.00	0.00
ATOM	2171	HG1	THR	X	140	24.106	35.215	29.651	0.00	0.00
ATOM	2172	C	THR	X	140	22.202	37.269	29.117	0.00	0.00
ATOM	2173	O	THR	X	140	22.641	37.003	27.972	0.00	0.00
ATOM	2174	N	VAL	X	141	22.298	38.413	29.693	0.00	0.00
ATOM	2175	H	VAL	X	141	22.065	38.504	30.671	0.00	0.00
ATOM	2176	CA	VAL	X	141	23.053	39.536	29.204	0.00	0.00
ATOM	2177	HA	VAL	X	141	23.151	39.302	28.144	0.00	0.00
ATOM	2178	CB	VAL	X	141	22.265	40.834	29.373	0.00	0.00
ATOM	2179	HB	VAL	X	141	21.935	41.036	30.392	0.00	0.00
ATOM	2180	CG1	VAL	X	141	23.233	41.961	29.075	0.00	0.00
ATOM	2181	HG11	VAL	X	141	23.545	41.927	28.031	0.00	0.00
ATOM	2182	HG12	VAL	X	141	22.670	42.890	29.165	0.00	0.00
ATOM	2183	HG13	VAL	X	141	23.976	42.061	29.867	0.00	0.00
ATOM	2184	CG2	VAL	X	141	21.101	40.788	28.354	0.00	0.00
ATOM	2185	HG21	VAL	X	141	20.645	41.776	28.419	0.00	0.00
ATOM	2186	HG22	VAL	X	141	20.385	40.004	28.600	0.00	0.00
ATOM	2187	HG23	VAL	X	141	21.609	40.600	27.408	0.00	0.00
ATOM	2188	C	VAL	X	141	24.443	39.590	29.819	0.00	0.00

ATOM	2189	O	VAL	X	141	24.588	39.721	31.005	0.00	0.00
ATOM	2190	N	LEU	X	142	25.460	39.544	29.018	0.00	0.00
ATOM	2191	H	LEU	X	142	25.262	39.735	28.046	0.00	0.00
ATOM	2192	CA	LEU	X	142	26.883	39.540	29.440	0.00	0.00
ATOM	2193	HA	LEU	X	142	26.925	39.224	30.482	0.00	0.00
ATOM	2194	CB	LEU	X	142	27.692	38.496	28.648	0.00	0.00
ATOM	2195	HB2	LEU	X	142	27.210	37.518	28.662	0.00	0.00
ATOM	2196	HB3	LEU	X	142	27.764	38.737	27.587	0.00	0.00
ATOM	2197	CG	LEU	X	142	29.171	38.250	29.138	0.00	0.00
ATOM	2198	HG	LEU	X	142	29.552	37.295	28.776	0.00	0.00
ATOM	2199	CD1	LEU	X	142	30.273	39.206	28.848	0.00	0.00
ATOM	2200	HD11	LEU	X	142	30.405	39.223	27.766	0.00	0.00
ATOM	2201	HD12	LEU	X	142	31.194	38.771	29.236	0.00	0.00
ATOM	2202	HD13	LEU	X	142	30.105	40.233	29.173	0.00	0.00
ATOM	2203	CD2	LEU	X	142	29.217	38.099	30.690	0.00	0.00
ATOM	2204	HD21	LEU	X	142	28.442	37.409	31.025	0.00	0.00
ATOM	2205	HD22	LEU	X	142	30.172	37.723	31.058	0.00	0.00
ATOM	2206	HD23	LEU	X	142	29.136	39.082	31.153	0.00	0.00
ATOM	2207	C	LEU	X	142	27.454	40.962	29.299	0.00	0.00
ATOM	2208	O	LEU	X	142	27.122	41.672	28.331	0.00	0.00
ATOM	2209	N	VAL	X	143	28.086	41.417	30.385	0.00	0.00
ATOM	2210	H	VAL	X	143	28.057	40.957	31.284	0.00	0.00
ATOM	2211	CA	VAL	X	143	28.712	42.714	30.460	0.00	0.00
ATOM	2212	HA	VAL	X	143	28.851	43.036	29.428	0.00	0.00
ATOM	2213	CB	VAL	X	143	27.856	43.657	31.373	0.00	0.00
ATOM	2214	HB	VAL	X	143	27.924	43.299	32.400	0.00	0.00
ATOM	2215	CG1	VAL	X	143	28.506	45.047	31.461	0.00	0.00
ATOM	2216	HG11	VAL	X	143	29.542	44.980	31.795	0.00	0.00
ATOM	2217	HG12	VAL	X	143	28.588	45.471	30.460	0.00	0.00
ATOM	2218	HG13	VAL	X	143	27.887	45.704	32.072	0.00	0.00
ATOM	2219	CG2	VAL	X	143	26.356	43.808	30.925	0.00	0.00
ATOM	2220	HG21	VAL	X	143	25.754	42.907	31.038	0.00	0.00
ATOM	2221	HG22	VAL	X	143	26.356	44.201	29.908	0.00	0.00
ATOM	2222	HG23	VAL	X	143	25.876	44.545	31.569	0.00	0.00
ATOM	2223	C	VAL	X	143	30.145	42.472	30.956	0.00	0.00
ATOM	2224	O	VAL	X	143	30.393	41.675	31.817	0.00	0.00
ATOM	2225	N	SER	X	144	31.090	43.318	30.533	0.00	0.00
ATOM	2226	H	SER	X	144	30.905	43.980	29.794	0.00	0.00
ATOM	2227	CA	SER	X	144	32.524	43.347	30.903	0.00	0.00
ATOM	2228	HA	SER	X	144	32.751	43.138	31.948	0.00	0.00
ATOM	2229	CB	SER	X	144	33.207	42.295	30.098	0.00	0.00
ATOM	2230	HB2	SER	X	144	32.734	41.354	30.380	0.00	0.00
ATOM	2231	HB3	SER	X	144	33.053	42.481	29.035	0.00	0.00
ATOM	2232	OG	SER	X	144	34.571	42.136	30.287	0.00	0.00
ATOM	2233	HG	SER	X	144	34.864	41.520	29.611	0.00	0.00
ATOM	2234	C	SER	X	144	33.132	44.737	30.617	0.00	0.00
ATOM	2235	O	SER	X	144	32.867	45.273	29.528	0.00	0.00
ATOM	2236	N	MET	X	145	33.909	45.280	31.521	0.00	0.00
ATOM	2237	H	MET	X	145	34.251	44.748	32.308	0.00	0.00
ATOM	2238	CA	MET	X	145	34.295	46.708	31.527	0.00	0.00
ATOM	2239	HA	MET	X	145	34.091	47.246	30.601	0.00	0.00
ATOM	2240	CB	MET	X	145	33.536	47.416	32.686	0.00	0.00
ATOM	2241	HB2	MET	X	145	33.883	48.442	32.812	0.00	0.00
ATOM	2242	HB3	MET	X	145	32.492	47.519	32.391	0.00	0.00
ATOM	2243	CG	MET	X	145	33.783	46.643	34.046	0.00	0.00
ATOM	2244	HG2	MET	X	145	33.282	45.675	34.066	0.00	0.00
ATOM	2245	HG3	MET	X	145	34.862	46.629	34.203	0.00	0.00
ATOM	2246	SD	MET	X	145	33.327	47.618	35.513	0.00	0.00
ATOM	2247	CE	MET	X	145	32.989	46.216	36.724	0.00	0.00
ATOM	2248	HE1	MET	X	145	32.022	45.731	36.588	0.00	0.00
ATOM	2249	HE2	MET	X	145	33.830	45.583	36.443	0.00	0.00
ATOM	2250	HE3	MET	X	145	33.081	46.573	37.750	0.00	0.00
ATOM	2251	C	MET	X	145	35.838	46.901	31.782	0.00	0.00
ATOM	2252	O	MET	X	145	36.490	46.110	32.433	0.00	0.00
ATOM	2253	N	ASN	X	146	36.438	47.997	31.358	0.00	0.00
ATOM	2254	H	ASN	X	146	35.879	48.773	31.034	0.00	0.00
ATOM	2255	CA	ASN	X	146	37.765	48.404	31.789	0.00	0.00

ATOM	2256	HA	ASN	X	146	38.441	47.608	32.101	0.00	0.00
ATOM	2257	CB	ASN	X	146	38.421	49.097	30.603	0.00	0.00
ATOM	2258	HB2	ASN	X	146	37.654	49.557	29.979	0.00	0.00
ATOM	2259	HB3	ASN	X	146	39.199	49.758	30.985	0.00	0.00
ATOM	2260	CG	ASN	X	146	39.099	48.069	29.696	0.00	0.00
ATOM	2261	OD1	ASN	X	146	39.025	46.878	29.936	0.00	0.00
ATOM	2262	ND2	ASN	X	146	39.861	48.449	28.603	0.00	0.00
ATOM	2263	HD21	ASN	X	146	40.345	47.763	28.042	0.00	0.00
ATOM	2264	HD22	ASN	X	146	40.122	49.416	28.474	0.00	0.00
ATOM	2265	C	ASN	X	146	37.740	49.385	32.955	0.00	0.00
ATOM	2266	O	ASN	X	146	36.710	50.032	33.227	0.00	0.00
ATOM	2267	N	TYR	X	147	38.878	49.617	33.671	0.00	0.00
ATOM	2268	H	TYR	X	147	39.689	49.140	33.304	0.00	0.00
ATOM	2269	CA	TYR	X	147	39.031	50.353	34.887	0.00	0.00
ATOM	2270	HA	TYR	X	147	38.660	51.348	34.641	0.00	0.00
ATOM	2271	CB	TYR	X	147	38.220	49.841	36.047	0.00	0.00
ATOM	2272	HB2	TYR	X	147	38.484	50.384	36.954	0.00	0.00
ATOM	2273	HB3	TYR	X	147	37.200	50.105	35.769	0.00	0.00
ATOM	2274	CG	TYR	X	147	38.258	48.314	36.363	0.00	0.00
ATOM	2275	CD1	TYR	X	147	37.318	47.434	35.807	0.00	0.00
ATOM	2276	HD1	TYR	X	147	36.485	47.817	35.235	0.00	0.00
ATOM	2277	CE1	TYR	X	147	37.503	45.993	35.965	0.00	0.00
ATOM	2278	HE1	TYR	X	147	36.766	45.384	35.462	0.00	0.00
ATOM	2279	CZ	TYR	X	147	38.539	45.491	36.740	0.00	0.00
ATOM	2280	OH	TYR	X	147	38.696	44.134	36.860	0.00	0.00
ATOM	2281	HH	TYR	X	147	39.561	43.907	37.208	0.00	0.00
ATOM	2282	CE2	TYR	X	147	39.376	46.378	37.467	0.00	0.00
ATOM	2283	HE2	TYR	X	147	40.164	46.006	38.105	0.00	0.00
ATOM	2284	CD2	TYR	X	147	39.286	47.802	37.140	0.00	0.00
ATOM	2285	HD2	TYR	X	147	40.044	48.481	37.502	0.00	0.00
ATOM	2286	C	TYR	X	147	40.432	50.700	35.187	0.00	0.00
ATOM	2287	O	TYR	X	147	41.356	50.031	34.697	0.00	0.00
ATOM	2288	N	ARG	X	148	40.711	51.745	35.972	0.00	0.00
ATOM	2289	H	ARG	X	148	39.920	52.280	36.300	0.00	0.00
ATOM	2290	CA	ARG	X	148	42.097	52.183	36.162	0.00	0.00
ATOM	2291	HA	ARG	X	148	42.642	52.087	35.223	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.103	53.652	36.545	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.393	53.767	37.365	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.039	53.887	37.051	0.00	0.00
ATOM	2295	CG	ARG	X	148	41.984	54.587	35.319	0.00	0.00
ATOM	2296	HG2	ARG	X	148	42.708	54.346	34.540	0.00	0.00
ATOM	2297	HG3	ARG	X	148	41.093	54.157	34.861	0.00	0.00
ATOM	2298	CD	ARG	X	148	42.078	56.021	35.621	0.00	0.00
ATOM	2299	HD2	ARG	X	148	42.943	56.278	36.232	0.00	0.00
ATOM	2300	HD3	ARG	X	148	42.064	56.638	34.723	0.00	0.00
ATOM	2301	NE	ARG	X	148	40.871	56.343	36.351	0.00	0.00
ATOM	2302	HE	ARG	X	148	40.385	55.499	36.622	0.00	0.00
ATOM	2303	CZ	ARG	X	148	40.526	57.421	37.029	0.00	0.00
ATOM	2304	NH1	ARG	X	148	41.413	58.415	37.148	0.00	0.00
ATOM	2305	HH11	ARG	X	148	42.378	58.264	36.892	0.00	0.00
ATOM	2306	HH12	ARG	X	148	41.135	59.335	37.459	0.00	0.00
ATOM	2307	NH2	ARG	X	148	39.329	57.560	37.556	0.00	0.00
ATOM	2308	HH21	ARG	X	148	38.600	56.887	37.368	0.00	0.00
ATOM	2309	HH22	ARG	X	148	39.072	58.348	38.133	0.00	0.00
ATOM	2310	C	ARG	X	148	42.715	51.301	37.186	0.00	0.00
ATOM	2311	O	ARG	X	148	42.594	51.505	38.321	0.00	0.00
ATOM	2312	N	VAL	X	149	43.272	50.150	36.708	0.00	0.00
ATOM	2313	H	VAL	X	149	43.115	49.887	35.745	0.00	0.00
ATOM	2314	CA	VAL	X	149	44.231	49.291	37.474	0.00	0.00
ATOM	2315	HA	VAL	X	149	43.911	49.203	38.513	0.00	0.00
ATOM	2316	CB	VAL	X	149	44.364	47.836	36.932	0.00	0.00
ATOM	2317	HB	VAL	X	149	45.050	47.378	37.646	0.00	0.00
ATOM	2318	CG1	VAL	X	149	43.004	47.173	36.972	0.00	0.00
ATOM	2319	HG11	VAL	X	149	42.616	47.129	37.990	0.00	0.00
ATOM	2320	HG12	VAL	X	149	42.342	47.752	36.328	0.00	0.00
ATOM	2321	HG13	VAL	X	149	43.137	46.198	36.504	0.00	0.00
ATOM	2322	CG2	VAL	X	149	45.008	47.915	35.485	0.00	0.00

ATOM	2323	HG21	VAL	X	149	44.373	48.471	34.796	0.00	0.00
ATOM	2324	HG22	VAL	X	149	44.937	46.944	34.994	0.00	0.00
ATOM	2325	HG23	VAL	X	149	46.017	48.302	35.624	0.00	0.00
ATOM	2326	C	VAL	X	149	45.603	50.031	37.419	0.00	0.00
ATOM	2327	O	VAL	X	149	45.800	51.101	36.824	0.00	0.00
ATOM	2328	N	GLY	X	150	46.555	49.436	38.209	0.00	0.00
ATOM	2329	H	GLY	X	150	46.298	48.553	38.626	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.890	49.983	38.415	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.497	49.201	38.870	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.476	50.147	37.510	0.00	0.00
ATOM	2333	C	GLY	X	150	47.868	51.255	39.256	0.00	0.00
ATOM	2334	O	GLY	X	150	46.912	51.677	39.860	0.00	0.00
ATOM	2335	N	ALA	X	151	49.025	52.005	39.217	0.00	0.00
ATOM	2336	H	ALA	X	151	49.850	51.608	38.791	0.00	0.00
ATOM	2337	CA	ALA	X	151	49.156	53.299	39.913	0.00	0.00
ATOM	2338	HA	ALA	X	151	49.108	53.093	40.982	0.00	0.00
ATOM	2339	CB	ALA	X	151	50.478	54.043	39.646	0.00	0.00
ATOM	2340	HB1	ALA	X	151	50.493	55.025	40.119	0.00	0.00
ATOM	2341	HB2	ALA	X	151	50.795	54.144	38.608	0.00	0.00
ATOM	2342	HB3	ALA	X	151	51.311	53.433	39.997	0.00	0.00
ATOM	2343	C	ALA	X	151	47.869	54.144	39.538	0.00	0.00
ATOM	2344	O	ALA	X	151	47.259	54.641	40.466	0.00	0.00
ATOM	2345	N	PHE	X	152	47.601	54.190	38.275	0.00	0.00
ATOM	2346	H	PHE	X	152	48.056	53.531	37.659	0.00	0.00
ATOM	2347	CA	PHE	X	152	46.574	55.030	37.665	0.00	0.00
ATOM	2348	HA	PHE	X	152	46.990	56.033	37.764	0.00	0.00
ATOM	2349	CB	PHE	X	152	46.391	54.702	36.120	0.00	0.00
ATOM	2350	HB2	PHE	X	152	45.911	53.737	35.961	0.00	0.00
ATOM	2351	HB3	PHE	X	152	45.698	55.386	35.630	0.00	0.00
ATOM	2352	CG	PHE	X	152	47.719	54.642	35.393	0.00	0.00
ATOM	2353	CD1	PHE	X	152	48.621	53.548	35.626	0.00	0.00
ATOM	2354	HD1	PHE	X	152	48.312	52.539	35.857	0.00	0.00
ATOM	2355	CE1	PHE	X	152	49.948	53.679	35.307	0.00	0.00
ATOM	2356	HE1	PHE	X	152	50.560	52.813	35.514	0.00	0.00
ATOM	2357	CZ	PHE	X	152	50.568	54.801	34.770	0.00	0.00
ATOM	2358	HZ	PHE	X	152	51.631	54.896	34.605	0.00	0.00
ATOM	2359	CE2	PHE	X	152	49.692	55.868	34.402	0.00	0.00
ATOM	2360	HE2	PHE	X	152	50.185	56.746	34.011	0.00	0.00
ATOM	2361	CD2	PHE	X	152	48.296	55.819	34.821	0.00	0.00
ATOM	2362	HD2	PHE	X	152	47.703	56.691	34.590	0.00	0.00
ATOM	2363	C	PHE	X	152	45.153	54.996	38.352	0.00	0.00
ATOM	2364	O	PHE	X	152	44.484	56.009	38.266	0.00	0.00
ATOM	2365	N	GLY	X	153	44.770	53.950	39.157	0.00	0.00
ATOM	2366	H	GLY	X	153	45.259	53.067	39.106	0.00	0.00
ATOM	2367	CA	GLY	X	153	43.618	54.016	40.071	0.00	0.00
ATOM	2368	HA2	GLY	X	153	42.948	54.858	39.903	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.954	53.171	39.885	0.00	0.00
ATOM	2370	C	GLY	X	153	43.884	53.809	41.582	0.00	0.00
ATOM	2371	O	GLY	X	153	43.088	54.204	42.431	0.00	0.00
ATOM	2372	N	PHE	X	154	45.008	53.153	41.915	0.00	0.00
ATOM	2373	H	PHE	X	154	45.688	53.025	41.179	0.00	0.00
ATOM	2374	CA	PHE	X	154	45.171	52.642	43.310	0.00	0.00
ATOM	2375	HA	PHE	X	154	44.340	52.848	43.984	0.00	0.00
ATOM	2376	CB	PHE	X	154	45.279	51.115	43.217	0.00	0.00
ATOM	2377	HB2	PHE	X	154	46.040	50.841	42.486	0.00	0.00
ATOM	2378	HB3	PHE	X	154	45.589	50.668	44.162	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.961	50.456	42.807	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.809	49.835	41.568	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.639	49.803	40.877	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.460	49.396	41.186	0.00	0.00
ATOM	2383	HE1	PHE	X	154	42.299	48.922	40.228	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.389	49.369	42.122	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.427	48.942	41.878	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.647	49.887	43.388	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.875	49.884	44.143	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.871	50.529	43.738	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.861	50.993	44.713	0.00	0.00

ATOM	2390	C	PHE	X	154	46.381	53.262	44.074	0.00	0.00
ATOM	2391	O	PHE	X	154	46.747	52.830	45.124	0.00	0.00
ATOM	2392	N	LEU	X	155	47.098	54.201	43.460	0.00	0.00
ATOM	2393	H	LEU	X	155	46.861	54.389	42.497	0.00	0.00
ATOM	2394	CA	LEU	X	155	48.151	54.988	44.106	0.00	0.00
ATOM	2395	HA	LEU	X	155	48.671	54.302	44.774	0.00	0.00
ATOM	2396	CB	LEU	X	155	49.222	55.510	43.064	0.00	0.00
ATOM	2397	HB2	LEU	X	155	49.590	54.616	42.562	0.00	0.00
ATOM	2398	HB3	LEU	X	155	48.728	56.066	42.267	0.00	0.00
ATOM	2399	CG	LEU	X	155	50.244	56.473	43.695	0.00	0.00
ATOM	2400	HG	LEU	X	155	50.494	55.990	44.640	0.00	0.00
ATOM	2401	CD1	LEU	X	155	51.549	56.455	42.869	0.00	0.00
ATOM	2402	HD11	LEU	X	155	51.402	56.544	41.793	0.00	0.00
ATOM	2403	HD12	LEU	X	155	52.066	55.501	42.975	0.00	0.00
ATOM	2404	HD13	LEU	X	155	52.202	57.271	43.179	0.00	0.00
ATOM	2405	CD2	LEU	X	155	49.586	57.868	43.886	0.00	0.00
ATOM	2406	HD21	LEU	X	155	48.960	58.206	43.060	0.00	0.00
ATOM	2407	HD22	LEU	X	155	48.969	57.955	44.780	0.00	0.00
ATOM	2408	HD23	LEU	X	155	50.354	58.636	43.981	0.00	0.00
ATOM	2409	C	LEU	X	155	47.423	55.935	45.032	0.00	0.00
ATOM	2410	O	LEU	X	155	46.579	56.733	44.547	0.00	0.00
ATOM	2411	N	ALA	X	156	47.781	55.826	46.327	0.00	0.00
ATOM	2412	H	ALA	X	156	48.408	55.062	46.535	0.00	0.00
ATOM	2413	CA	ALA	X	156	47.355	56.843	47.260	0.00	0.00
ATOM	2414	HA	ALA	X	156	46.782	57.647	46.797	0.00	0.00
ATOM	2415	CB	ALA	X	156	46.473	56.363	48.438	0.00	0.00
ATOM	2416	HB1	ALA	X	156	47.132	55.666	48.956	0.00	0.00
ATOM	2417	HB2	ALA	X	156	45.549	55.961	48.023	0.00	0.00
ATOM	2418	HB3	ALA	X	156	46.048	57.079	49.142	0.00	0.00
ATOM	2419	C	ALA	X	156	48.624	57.482	47.903	0.00	0.00
ATOM	2420	O	ALA	X	156	49.600	56.819	48.138	0.00	0.00
ATOM	2421	N	LEU	X	157	48.587	58.783	48.205	0.00	0.00
ATOM	2422	H	LEU	X	157	47.719	59.286	48.088	0.00	0.00
ATOM	2423	CA	LEU	X	157	49.507	59.432	49.069	0.00	0.00
ATOM	2424	HA	LEU	X	157	50.284	58.748	49.409	0.00	0.00
ATOM	2425	CB	LEU	X	157	50.305	60.517	48.295	0.00	0.00
ATOM	2426	HB2	LEU	X	157	49.625	61.145	47.721	0.00	0.00
ATOM	2427	HB3	LEU	X	157	50.731	61.067	49.134	0.00	0.00
ATOM	2428	CG	LEU	X	157	51.478	60.042	47.435	0.00	0.00
ATOM	2429	HG	LEU	X	157	51.218	59.005	47.219	0.00	0.00
ATOM	2430	CD1	LEU	X	157	51.583	60.743	46.058	0.00	0.00
ATOM	2431	HD11	LEU	X	157	52.319	60.215	45.452	0.00	0.00
ATOM	2432	HD12	LEU	X	157	51.808	61.781	46.304	0.00	0.00
ATOM	2433	HD13	LEU	X	157	50.646	60.762	45.501	0.00	0.00
ATOM	2434	CD2	LEU	X	157	52.794	60.161	48.194	0.00	0.00
ATOM	2435	HD21	LEU	X	157	52.998	61.232	48.189	0.00	0.00
ATOM	2436	HD22	LEU	X	157	52.628	59.721	49.177	0.00	0.00
ATOM	2437	HD23	LEU	X	157	53.680	59.762	47.702	0.00	0.00
ATOM	2438	C	LEU	X	157	48.771	60.051	50.310	0.00	0.00
ATOM	2439	O	LEU	X	157	48.257	61.186	50.267	0.00	0.00
ATOM	2440	N	PRO	X	158	48.689	59.275	51.428	0.00	0.00
ATOM	2441	CD	PRO	X	158	48.929	57.884	51.652	0.00	0.00
ATOM	2442	HD2	PRO	X	158	49.971	57.900	51.974	0.00	0.00
ATOM	2443	HD3	PRO	X	158	48.852	57.146	50.854	0.00	0.00
ATOM	2444	CG	PRO	X	158	48.008	57.513	52.812	0.00	0.00
ATOM	2445	HG2	PRO	X	158	48.359	56.663	53.398	0.00	0.00
ATOM	2446	HG3	PRO	X	158	46.958	57.502	52.518	0.00	0.00
ATOM	2447	CB	PRO	X	158	48.237	58.774	53.638	0.00	0.00
ATOM	2448	HB2	PRO	X	158	49.168	58.715	54.201	0.00	0.00
ATOM	2449	HB3	PRO	X	158	47.389	58.986	54.290	0.00	0.00
ATOM	2450	CA	PRO	X	158	48.135	59.864	52.640	0.00	0.00
ATOM	2451	HA	PRO	X	158	47.125	60.190	52.389	0.00	0.00
ATOM	2452	C	PRO	X	158	48.967	61.104	53.023	0.00	0.00
ATOM	2453	O	PRO	X	158	50.238	61.143	52.828	0.00	0.00
ATOM	2454	N	GLY	X	159	48.299	62.128	53.447	0.00	0.00
ATOM	2455	H	GLY	X	159	47.330	62.008	53.703	0.00	0.00
ATOM	2456	CA	GLY	X	159	48.825	63.478	53.689	0.00	0.00

ATOM	2457	HA2	GLY	X	159	48.322	63.826	54.591	0.00	0.00
ATOM	2458	HA3	GLY	X	159	49.912	63.537	53.752	0.00	0.00
ATOM	2459	C	GLY	X	159	48.396	64.434	52.564	0.00	0.00
ATOM	2460	O	GLY	X	159	48.516	65.619	52.801	0.00	0.00
ATOM	2461	N	SER	X	160	48.066	63.972	51.422	0.00	0.00
ATOM	2462	H	SER	X	160	48.074	62.964	51.353	0.00	0.00
ATOM	2463	CA	SER	X	160	47.592	64.782	50.245	0.00	0.00
ATOM	2464	HA	SER	X	160	47.794	65.839	50.419	0.00	0.00
ATOM	2465	CB	SER	X	160	48.271	64.361	48.957	0.00	0.00
ATOM	2466	HB2	SER	X	160	48.261	65.300	48.403	0.00	0.00
ATOM	2467	HB3	SER	X	160	49.290	64.049	49.187	0.00	0.00
ATOM	2468	OG	SER	X	160	47.408	63.456	48.248	0.00	0.00
ATOM	2469	HG	SER	X	160	47.292	62.696	48.823	0.00	0.00
ATOM	2470	C	SER	X	160	46.068	64.728	50.172	0.00	0.00
ATOM	2471	O	SER	X	160	45.444	63.871	50.802	0.00	0.00
ATOM	2472	N	ARG	X	161	45.415	65.585	49.366	0.00	0.00
ATOM	2473	H	ARG	X	161	45.927	66.401	49.063	0.00	0.00
ATOM	2474	CA	ARG	X	161	44.064	65.391	48.845	0.00	0.00
ATOM	2475	HA	ARG	X	161	43.585	64.506	49.262	0.00	0.00
ATOM	2476	CB	ARG	X	161	43.283	66.612	49.044	0.00	0.00
ATOM	2477	HB2	ARG	X	161	43.868	67.459	48.688	0.00	0.00
ATOM	2478	HB3	ARG	X	161	42.378	66.503	48.446	0.00	0.00
ATOM	2479	CG	ARG	X	161	43.005	66.847	50.541	0.00	0.00
ATOM	2480	HG2	ARG	X	161	42.543	65.985	51.024	0.00	0.00
ATOM	2481	HG3	ARG	X	161	43.982	67.088	50.961	0.00	0.00
ATOM	2482	CD	ARG	X	161	42.075	68.055	50.720	0.00	0.00
ATOM	2483	HD2	ARG	X	161	42.378	68.933	50.149	0.00	0.00
ATOM	2484	HD3	ARG	X	161	41.118	67.731	50.313	0.00	0.00
ATOM	2485	NE	ARG	X	161	41.973	68.391	52.176	0.00	0.00
ATOM	2486	HE	ARG	X	161	41.225	67.981	52.716	0.00	0.00
ATOM	2487	CZ	ARG	X	161	42.741	69.190	52.890	0.00	0.00
ATOM	2488	NH1	ARG	X	161	43.953	69.603	52.523	0.00	0.00
ATOM	2489	HH11	ARG	X	161	44.485	69.044	51.872	0.00	0.00
ATOM	2490	HH12	ARG	X	161	44.424	70.183	53.203	0.00	0.00
ATOM	2491	NH2	ARG	X	161	42.404	69.586	54.085	0.00	0.00
ATOM	2492	HH21	ARG	X	161	41.456	69.462	54.409	0.00	0.00
ATOM	2493	HH22	ARG	X	161	42.972	70.287	54.539	0.00	0.00
ATOM	2494	C	ARG	X	161	44.252	65.065	47.361	0.00	0.00
ATOM	2495	O	ARG	X	161	43.341	64.644	46.671	0.00	0.00
ATOM	2496	N	GLU	X	162	45.347	65.357	46.773	0.00	0.00
ATOM	2497	H	GLU	X	162	46.123	65.758	47.281	0.00	0.00
ATOM	2498	CA	GLU	X	162	45.694	65.315	45.366	0.00	0.00
ATOM	2499	HA	GLU	X	162	44.848	65.807	44.886	0.00	0.00
ATOM	2500	CB	GLU	X	162	46.949	66.180	45.084	0.00	0.00
ATOM	2501	HB2	GLU	X	162	47.704	65.841	45.795	0.00	0.00
ATOM	2502	HB3	GLU	X	162	47.348	65.976	44.091	0.00	0.00
ATOM	2503	CG	GLU	X	162	46.828	67.666	45.309	0.00	0.00
ATOM	2504	HG2	GLU	X	162	47.789	68.125	45.078	0.00	0.00
ATOM	2505	HG3	GLU	X	162	46.044	68.066	44.665	0.00	0.00
ATOM	2506	CD	GLU	X	162	46.505	67.975	46.766	0.00	0.00
ATOM	2507	OE1	GLU	X	162	45.587	68.798	46.956	0.00	0.00
ATOM	2508	OE2	GLU	X	162	47.103	67.402	47.723	0.00	0.00
ATOM	2509	C	GLU	X	162	45.920	63.824	44.799	0.00	0.00
ATOM	2510	O	GLU	X	162	45.720	63.725	43.605	0.00	0.00
ATOM	2511	N	ALA	X	163	46.279	62.808	45.619	0.00	0.00
ATOM	2512	H	ALA	X	163	46.627	63.052	46.535	0.00	0.00
ATOM	2513	CA	ALA	X	163	46.299	61.349	45.299	0.00	0.00
ATOM	2514	HA	ALA	X	163	45.682	61.258	44.405	0.00	0.00
ATOM	2515	CB	ALA	X	163	47.740	60.910	44.972	0.00	0.00
ATOM	2516	HB1	ALA	X	163	47.751	59.944	44.468	0.00	0.00
ATOM	2517	HB2	ALA	X	163	48.384	60.866	45.851	0.00	0.00
ATOM	2518	HB3	ALA	X	163	48.055	61.707	44.298	0.00	0.00
ATOM	2519	C	ALA	X	163	45.616	60.582	46.440	0.00	0.00
ATOM	2520	O	ALA	X	163	46.337	60.048	47.315	0.00	0.00
ATOM	2521	N	PRO	X	164	44.233	60.544	46.433	0.00	0.00
ATOM	2522	CD	PRO	X	164	43.369	61.272	45.544	0.00	0.00
ATOM	2523	HD2	PRO	X	164	43.459	61.071	44.477	0.00	0.00

ATOM	2524	HD3	PRO	X	164	43.498	62.340	45.725	0.00	0.00
ATOM	2525	CG	PRO	X	164	41.932	60.742	45.911	0.00	0.00
ATOM	2526	HG2	PRO	X	164	41.610	59.885	45.319	0.00	0.00
ATOM	2527	HG3	PRO	X	164	41.223	61.565	45.824	0.00	0.00
ATOM	2528	CB	PRO	X	164	42.139	60.376	47.376	0.00	0.00
ATOM	2529	HB2	PRO	X	164	41.538	59.507	47.645	0.00	0.00
ATOM	2530	HB3	PRO	X	164	41.878	61.196	48.046	0.00	0.00
ATOM	2531	CA	PRO	X	164	43.591	59.897	47.546	0.00	0.00
ATOM	2532	HA	PRO	X	164	43.855	60.317	48.517	0.00	0.00
ATOM	2533	C	PRO	X	164	43.686	58.378	47.296	0.00	0.00
ATOM	2534	O	PRO	X	164	43.559	57.680	48.309	0.00	0.00
ATOM	2535	N	GLY	X	165	43.746	57.885	46.048	0.00	0.00
ATOM	2536	H	GLY	X	165	43.867	58.588	45.334	0.00	0.00
ATOM	2537	CA	GLY	X	165	43.783	56.492	45.631	0.00	0.00
ATOM	2538	HA2	GLY	X	165	44.023	56.312	44.584	0.00	0.00
ATOM	2539	HA3	GLY	X	165	44.424	55.840	46.225	0.00	0.00
ATOM	2540	C	GLY	X	165	42.411	55.846	45.704	0.00	0.00
ATOM	2541	O	GLY	X	165	41.371	56.496	45.885	0.00	0.00
ATOM	2542	N	ASN	X	166	42.393	54.477	45.511	0.00	0.00
ATOM	2543	H	ASN	X	166	43.257	54.014	45.270	0.00	0.00
ATOM	2544	CA	ASN	X	166	41.150	53.683	45.493	0.00	0.00
ATOM	2545	HA	ASN	X	166	41.492	52.656	45.362	0.00	0.00
ATOM	2546	CB	ASN	X	166	40.454	53.688	46.893	0.00	0.00
ATOM	2547	HB2	ASN	X	166	40.168	54.721	47.088	0.00	0.00
ATOM	2548	HB3	ASN	X	166	39.523	53.128	46.797	0.00	0.00
ATOM	2549	CG	ASN	X	166	41.269	53.120	48.023	0.00	0.00
ATOM	2550	OD1	ASN	X	166	41.955	52.125	47.797	0.00	0.00
ATOM	2551	ND2	ASN	X	166	41.346	53.671	49.235	0.00	0.00
ATOM	2552	HD21	ASN	X	166	41.807	53.206	50.005	0.00	0.00
ATOM	2553	HD22	ASN	X	166	40.790	54.480	49.473	0.00	0.00
ATOM	2554	C	ASN	X	166	40.127	53.880	44.332	0.00	0.00
ATOM	2555	O	ASN	X	166	39.151	53.080	44.209	0.00	0.00
ATOM	2556	N	VAL	X	167	40.382	54.882	43.508	0.00	0.00
ATOM	2557	H	VAL	X	167	41.210	55.400	43.765	0.00	0.00
ATOM	2558	CA	VAL	X	167	39.408	55.333	42.526	0.00	0.00
ATOM	2559	HA	VAL	X	167	38.475	55.591	43.026	0.00	0.00
ATOM	2560	CB	VAL	X	167	39.799	56.650	41.894	0.00	0.00
ATOM	2561	HB	VAL	X	167	38.985	56.923	41.222	0.00	0.00
ATOM	2562	CG1	VAL	X	167	39.917	57.753	42.965	0.00	0.00
ATOM	2563	HG11	VAL	X	167	40.153	58.714	42.508	0.00	0.00
ATOM	2564	HG12	VAL	X	167	39.045	57.979	43.580	0.00	0.00
ATOM	2565	HG13	VAL	X	167	40.700	57.495	43.677	0.00	0.00
ATOM	2566	CG2	VAL	X	167	41.115	56.624	41.087	0.00	0.00
ATOM	2567	HG21	VAL	X	167	41.143	57.591	40.584	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.997	55.940	40.246	0.00	0.00
ATOM	2569	HG23	VAL	X	167	42.005	56.251	41.594	0.00	0.00
ATOM	2570	C	VAL	X	167	39.100	54.399	41.388	0.00	0.00
ATOM	2571	O	VAL	X	167	38.044	54.445	40.759	0.00	0.00
ATOM	2572	N	GLY	X	168	39.970	53.399	41.143	0.00	0.00
ATOM	2573	H	GLY	X	168	40.779	53.371	41.748	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.809	52.379	40.094	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.673	52.842	39.117	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.732	51.801	40.042	0.00	0.00
ATOM	2577	C	GLY	X	168	38.606	51.415	40.435	0.00	0.00
ATOM	2578	O	GLY	X	168	38.121	50.708	39.536	0.00	0.00
ATOM	2579	N	LEU	X	169	38.064	51.611	41.702	0.00	0.00
ATOM	2580	H	LEU	X	169	38.671	52.180	42.273	0.00	0.00
ATOM	2581	CA	LEU	X	169	36.747	51.059	42.169	0.00	0.00
ATOM	2582	HA	LEU	X	169	36.539	50.171	41.571	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.734	50.609	43.664	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.976	51.545	44.168	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.744	50.250	43.945	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.793	49.576	44.037	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.771	50.020	43.848	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.797	49.217	45.614	0.00	0.00
ATOM	2589	HD11	LEU	X	169	36.862	48.688	45.799	0.00	0.00
ATOM	2590	HD12	LEU	X	169	37.844	50.175	46.131	0.00	0.00

ATOM	2591	HD13	LEU	X	169	38.599	48.550	45.930	0.00	0.00
ATOM	2592	CD2	LEU	X	169	37.769	48.237	43.257	0.00	0.00
ATOM	2593	HD21	LEU	X	169	37.711	48.387	42.179	0.00	0.00
ATOM	2594	HD22	LEU	X	169	38.622	47.585	43.444	0.00	0.00
ATOM	2595	HD23	LEU	X	169	36.880	47.677	43.548	0.00	0.00
ATOM	2596	C	LEU	X	169	35.560	52.011	42.060	0.00	0.00
ATOM	2597	O	LEU	X	169	34.379	51.635	42.025	0.00	0.00
ATOM	2598	N	LEU	X	170	35.844	53.345	41.977	0.00	0.00
ATOM	2599	H	LEU	X	170	36.813	53.564	41.793	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.820	54.312	41.596	0.00	0.00
ATOM	2601	HA	LEU	X	170	34.016	54.054	42.285	0.00	0.00
ATOM	2602	CB	LEU	X	170	35.313	55.775	41.977	0.00	0.00
ATOM	2603	HB2	LEU	X	170	36.131	56.091	41.330	0.00	0.00
ATOM	2604	HB3	LEU	X	170	34.617	56.547	41.649	0.00	0.00
ATOM	2605	CG	LEU	X	170	35.682	56.000	43.473	0.00	0.00
ATOM	2606	HG	LEU	X	170	36.491	55.304	43.695	0.00	0.00
ATOM	2607	CD1	LEU	X	170	36.344	57.436	43.627	0.00	0.00
ATOM	2608	HD11	LEU	X	170	35.514	58.118	43.442	0.00	0.00
ATOM	2609	HD12	LEU	X	170	37.117	57.440	42.859	0.00	0.00
ATOM	2610	HD13	LEU	X	170	36.698	57.635	44.639	0.00	0.00
ATOM	2611	CD2	LEU	X	170	34.554	55.894	44.465	0.00	0.00
ATOM	2612	HD21	LEU	X	170	34.170	54.875	44.422	0.00	0.00
ATOM	2613	HD22	LEU	X	170	34.926	56.108	45.467	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.731	56.537	44.150	0.00	0.00
ATOM	2615	C	LEU	X	170	34.388	54.146	40.104	0.00	0.00
ATOM	2616	O	LEU	X	170	33.215	54.373	39.834	0.00	0.00
ATOM	2617	N	ASP	X	171	35.394	53.854	39.265	0.00	0.00
ATOM	2618	H	ASP	X	171	36.295	53.872	39.721	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.321	53.551	37.836	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.799	54.377	37.353	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.634	53.351	37.113	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.016	52.444	37.581	0.00	0.00
ATOM	2623	HB3	ASP	X	171	36.327	53.096	36.099	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.647	54.471	37.068	0.00	0.00
ATOM	2625	OD1	ASP	X	171	37.339	55.669	37.340	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.839	54.094	36.827	0.00	0.00
ATOM	2627	C	ASP	X	171	34.533	52.345	37.474	0.00	0.00
ATOM	2628	O	ASP	X	171	33.592	52.364	36.699	0.00	0.00
ATOM	2629	N	GLN	X	172	34.707	51.305	38.276	0.00	0.00
ATOM	2630	H	GLN	X	172	35.494	51.198	38.900	0.00	0.00
ATOM	2631	CA	GLN	X	172	33.763	50.206	38.275	0.00	0.00
ATOM	2632	HA	GLN	X	172	33.496	49.922	37.257	0.00	0.00
ATOM	2633	CB	GLN	X	172	34.205	48.952	39.123	0.00	0.00
ATOM	2634	HB2	GLN	X	172	34.278	49.195	40.183	0.00	0.00
ATOM	2635	HB3	GLN	X	172	33.367	48.258	39.044	0.00	0.00
ATOM	2636	CG	GLN	X	172	35.407	48.127	38.626	0.00	0.00
ATOM	2637	HG2	GLN	X	172	35.021	47.556	37.782	0.00	0.00
ATOM	2638	HG3	GLN	X	172	36.242	48.729	38.268	0.00	0.00
ATOM	2639	CD	GLN	X	172	35.855	47.137	39.681	0.00	0.00
ATOM	2640	OE1	GLN	X	172	35.090	46.692	40.483	0.00	0.00
ATOM	2641	NE2	GLN	X	172	37.076	46.666	39.632	0.00	0.00
ATOM	2642	HE21	GLN	X	172	37.330	45.962	40.311	0.00	0.00
ATOM	2643	HE22	GLN	X	172	37.645	46.878	38.825	0.00	0.00
ATOM	2644	C	GLN	X	172	32.364	50.674	38.784	0.00	0.00
ATOM	2645	O	GLN	X	172	31.374	50.261	38.169	0.00	0.00
ATOM	2646	N	ARG	X	173	32.233	51.575	39.830	0.00	0.00
ATOM	2647	H	ARG	X	173	33.073	51.843	40.324	0.00	0.00
ATOM	2648	CA	ARG	X	173	30.938	51.920	40.427	0.00	0.00
ATOM	2649	HA	ARG	X	173	30.344	51.031	40.635	0.00	0.00
ATOM	2650	CB	ARG	X	173	31.210	52.742	41.799	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.762	52.138	42.519	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.639	53.694	41.486	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.835	53.135	42.431	0.00	0.00
ATOM	2654	HG2	ARG	X	173	29.169	53.597	41.703	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.289	52.305	42.880	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.915	54.088	43.571	0.00	0.00
ATOM	2657	HD2	ARG	X	173	30.241	55.061	43.204	0.00	0.00

ATOM	2658	HD3	ARG	X	173	28.884	54.267	43.877	0.00	0.00
ATOM	2659	NE	ARG	X	173	30.734	53.662	44.717	0.00	0.00
ATOM	2660	HE	ARG	X	173	30.745	52.654	44.788	0.00	0.00
ATOM	2661	CZ	ARG	X	173	31.509	54.353	45.536	0.00	0.00
ATOM	2662	NH1	ARG	X	173	31.515	55.679	45.561	0.00	0.00
ATOM	2663	HH11	ARG	X	173	30.940	56.223	44.934	0.00	0.00
ATOM	2664	HH12	ARG	X	173	31.984	56.230	46.267	0.00	0.00
ATOM	2665	NH2	ARG	X	173	32.131	53.751	46.494	0.00	0.00
ATOM	2666	HH21	ARG	X	173	32.010	52.749	46.540	0.00	0.00
ATOM	2667	HH22	ARG	X	173	32.555	54.284	47.239	0.00	0.00
ATOM	2668	C	ARG	X	173	30.153	52.795	39.413	0.00	0.00
ATOM	2669	O	ARG	X	173	28.969	52.428	39.226	0.00	0.00
ATOM	2670	N	LEU	X	174	30.770	53.644	38.637	0.00	0.00
ATOM	2671	H	LEU	X	174	31.763	53.666	38.820	0.00	0.00
ATOM	2672	CA	LEU	X	174	30.207	54.411	37.486	0.00	0.00
ATOM	2673	HA	LEU	X	174	29.357	55.012	37.811	0.00	0.00
ATOM	2674	CB	LEU	X	174	31.221	55.455	37.054	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.645	56.027	37.880	0.00	0.00
ATOM	2676	HB3	LEU	X	174	32.100	54.911	36.709	0.00	0.00
ATOM	2677	CG	LEU	X	174	30.781	56.416	35.970	0.00	0.00
ATOM	2678	HG	LEU	X	174	30.584	55.866	35.050	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.559	57.300	36.258	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.573	57.790	37.231	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.692	56.639	36.251	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.396	58.031	35.466	0.00	0.00
ATOM	2683	CD2	LEU	X	174	31.987	57.325	35.675	0.00	0.00
ATOM	2684	HD21	LEU	X	174	31.696	57.930	34.816	0.00	0.00
ATOM	2685	HD22	LEU	X	174	32.116	58.082	36.448	0.00	0.00
ATOM	2686	HD23	LEU	X	174	32.887	56.775	35.398	0.00	0.00
ATOM	2687	C	LEU	X	174	29.747	53.556	36.291	0.00	0.00
ATOM	2688	O	LEU	X	174	28.833	54.061	35.689	0.00	0.00
ATOM	2689	N	ALA	X	175	30.375	52.418	36.092	0.00	0.00
ATOM	2690	H	ALA	X	175	31.145	52.207	36.711	0.00	0.00
ATOM	2691	CA	ALA	X	175	29.887	51.407	35.103	0.00	0.00
ATOM	2692	HA	ALA	X	175	29.538	51.837	34.164	0.00	0.00
ATOM	2693	CB	ALA	X	175	30.990	50.391	34.644	0.00	0.00
ATOM	2694	HB1	ALA	X	175	31.715	50.907	34.014	0.00	0.00
ATOM	2695	HB2	ALA	X	175	30.471	49.579	34.135	0.00	0.00
ATOM	2696	HB3	ALA	X	175	31.550	50.039	35.510	0.00	0.00
ATOM	2697	C	ALA	X	175	28.698	50.648	35.694	0.00	0.00
ATOM	2698	O	ALA	X	175	27.677	50.588	35.025	0.00	0.00
ATOM	2699	N	LEU	X	176	28.751	50.236	36.963	0.00	0.00
ATOM	2700	H	LEU	X	176	29.541	50.370	37.577	0.00	0.00
ATOM	2701	CA	LEU	X	176	27.587	49.615	37.578	0.00	0.00
ATOM	2702	HA	LEU	X	176	27.306	48.730	37.007	0.00	0.00
ATOM	2703	CB	LEU	X	176	27.875	49.091	39.095	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.031	49.921	39.784	0.00	0.00
ATOM	2705	HB3	LEU	X	176	26.965	48.669	39.522	0.00	0.00
ATOM	2706	CG	LEU	X	176	29.006	48.045	39.262	0.00	0.00
ATOM	2707	HG	LEU	X	176	29.953	48.486	38.950	0.00	0.00
ATOM	2708	CD1	LEU	X	176	29.015	47.523	40.736	0.00	0.00
ATOM	2709	HD11	LEU	X	176	28.007	47.233	41.032	0.00	0.00
ATOM	2710	HD12	LEU	X	176	29.324	48.303	41.431	0.00	0.00
ATOM	2711	HD13	LEU	X	176	29.796	46.767	40.817	0.00	0.00
ATOM	2712	CD2	LEU	X	176	28.887	46.806	38.306	0.00	0.00
ATOM	2713	HD21	LEU	X	176	29.815	46.245	38.416	0.00	0.00
ATOM	2714	HD22	LEU	X	176	27.985	46.218	38.482	0.00	0.00
ATOM	2715	HD23	LEU	X	176	28.868	47.120	37.263	0.00	0.00
ATOM	2716	C	LEU	X	176	26.321	50.511	37.532	0.00	0.00
ATOM	2717	O	LEU	X	176	25.226	50.165	37.200	0.00	0.00
ATOM	2718	N	GLN	X	177	26.510	51.815	37.800	0.00	0.00
ATOM	2719	H	GLN	X	177	27.453	51.981	38.121	0.00	0.00
ATOM	2720	CA	GLN	X	177	25.486	52.871	37.607	0.00	0.00
ATOM	2721	HA	GLN	X	177	24.554	52.642	38.123	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.033	54.273	38.087	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.435	54.208	39.098	0.00	0.00
ATOM	2724	HB3	GLN	X	177	26.860	54.539	37.429	0.00	0.00

ATOM	2725	CG	GLN	X	177	24.946	55.402	38.177	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.274	55.367	37.320	0.00	0.00
ATOM	2727	HG3	GLN	X	177	24.163	55.220	38.913	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.550	56.770	38.368	0.00	0.00
ATOM	2729	OE1	GLN	X	177	25.802	57.232	39.431	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.998	57.354	37.299	0.00	0.00
ATOM	2731	HE21	GLN	X	177	26.303	58.297	37.494	0.00	0.00
ATOM	2732	HE22	GLN	X	177	25.668	57.102	36.379	0.00	0.00
ATOM	2733	C	GLN	X	177	25.053	53.002	36.194	0.00	0.00
ATOM	2734	O	GLN	X	177	23.908	52.957	35.975	0.00	0.00
ATOM	2735	N	TRP	X	178	26.016	52.989	35.232	0.00	0.00
ATOM	2736	H	TRP	X	178	26.970	52.855	35.537	0.00	0.00
ATOM	2737	CA	TRP	X	178	25.661	52.891	33.755	0.00	0.00
ATOM	2738	HA	TRP	X	178	25.105	53.767	33.421	0.00	0.00
ATOM	2739	CB	TRP	X	178	26.928	52.972	32.845	0.00	0.00
ATOM	2740	HB2	TRP	X	178	27.351	53.945	33.093	0.00	0.00
ATOM	2741	HB3	TRP	X	178	27.701	52.261	33.135	0.00	0.00
ATOM	2742	CG	TRP	X	178	26.796	52.995	31.296	0.00	0.00
ATOM	2743	CD1	TRP	X	178	26.954	53.987	30.405	0.00	0.00
ATOM	2744	HD1	TRP	X	178	27.373	54.944	30.679	0.00	0.00
ATOM	2745	NE1	TRP	X	178	26.751	53.558	29.159	0.00	0.00
ATOM	2746	HE1	TRP	X	178	26.971	54.098	28.335	0.00	0.00
ATOM	2747	CE2	TRP	X	178	26.350	52.224	29.126	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	26.149	51.264	28.080	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	26.165	51.608	27.057	0.00	0.00
ATOM	2750	CH2	TRP	X	178	26.014	49.875	28.319	0.00	0.00
ATOM	2751	HH2	TRP	X	178	26.051	49.147	27.522	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	26.033	49.471	29.666	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	25.913	48.440	29.966	0.00	0.00
ATOM	2754	CE3	TRP	X	178	26.218	50.448	30.721	0.00	0.00
ATOM	2755	HE3	TRP	X	178	26.259	50.112	31.746	0.00	0.00
ATOM	2756	CD2	TRP	X	178	26.408	51.860	30.495	0.00	0.00
ATOM	2757	C	TRP	X	178	24.741	51.685	33.437	0.00	0.00
ATOM	2758	O	TRP	X	178	23.809	51.838	32.676	0.00	0.00
ATOM	2759	N	VAL	X	179	25.116	50.511	33.973	0.00	0.00
ATOM	2760	H	VAL	X	179	26.000	50.414	34.451	0.00	0.00
ATOM	2761	CA	VAL	X	179	24.366	49.243	33.816	0.00	0.00
ATOM	2762	HA	VAL	X	179	24.368	49.021	32.749	0.00	0.00
ATOM	2763	CB	VAL	X	179	24.984	47.985	34.510	0.00	0.00
ATOM	2764	HB	VAL	X	179	25.381	48.293	35.477	0.00	0.00
ATOM	2765	CG1	VAL	X	179	24.113	46.757	34.887	0.00	0.00
ATOM	2766	HG11	VAL	X	179	23.573	46.548	33.963	0.00	0.00
ATOM	2767	HG12	VAL	X	179	24.753	45.984	35.312	0.00	0.00
ATOM	2768	HG13	VAL	X	179	23.346	47.018	35.616	0.00	0.00
ATOM	2769	CG2	VAL	X	179	26.200	47.449	33.816	0.00	0.00
ATOM	2770	HG21	VAL	X	179	26.648	46.638	34.391	0.00	0.00
ATOM	2771	HG22	VAL	X	179	27.003	48.185	33.807	0.00	0.00
ATOM	2772	HG23	VAL	X	179	26.038	47.177	32.773	0.00	0.00
ATOM	2773	C	VAL	X	179	22.893	49.386	34.236	0.00	0.00
ATOM	2774	O	VAL	X	179	21.967	49.293	33.382	0.00	0.00
ATOM	2775	N	GLN	X	180	22.684	49.679	35.493	0.00	0.00
ATOM	2776	H	GLN	X	180	23.495	49.831	36.076	0.00	0.00
ATOM	2777	CA	GLN	X	180	21.283	50.055	36.091	0.00	0.00
ATOM	2778	HA	GLN	X	180	20.662	49.167	35.971	0.00	0.00
ATOM	2779	CB	GLN	X	180	21.489	50.680	37.519	0.00	0.00
ATOM	2780	HB2	GLN	X	180	22.294	51.414	37.479	0.00	0.00
ATOM	2781	HB3	GLN	X	180	20.560	51.183	37.787	0.00	0.00
ATOM	2782	CG	GLN	X	180	21.796	49.623	38.572	0.00	0.00
ATOM	2783	HG2	GLN	X	180	22.698	49.020	38.467	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.806	50.231	39.477	0.00	0.00
ATOM	2785	CD	GLN	X	180	20.650	48.681	38.716	0.00	0.00
ATOM	2786	OE1	GLN	X	180	19.534	48.798	38.312	0.00	0.00
ATOM	2787	NE2	GLN	X	180	20.927	47.474	39.129	0.00	0.00
ATOM	2788	HE21	GLN	X	180	20.107	46.889	39.054	0.00	0.00
ATOM	2789	HE22	GLN	X	180	21.868	47.181	39.350	0.00	0.00
ATOM	2790	C	GLN	X	180	20.576	51.150	35.262	0.00	0.00
ATOM	2791	O	GLN	X	180	19.341	51.066	35.152	0.00	0.00

ATOM	2792	N	GLU	X	181	21.295	52.086	34.621	0.00	0.00
ATOM	2793	H	GLU	X	181	22.266	52.231	34.858	0.00	0.00
ATOM	2794	CA	GLU	X	181	20.665	53.125	33.797	0.00	0.00
ATOM	2795	HA	GLU	X	181	19.665	53.355	34.165	0.00	0.00
ATOM	2796	CB	GLU	X	181	21.633	54.320	33.745	0.00	0.00
ATOM	2797	HB2	GLU	X	181	21.937	54.534	34.769	0.00	0.00
ATOM	2798	HB3	GLU	X	181	22.563	54.015	33.265	0.00	0.00
ATOM	2799	CG	GLU	X	181	20.967	55.541	33.129	0.00	0.00
ATOM	2800	HG2	GLU	X	181	20.914	55.494	32.041	0.00	0.00
ATOM	2801	HG3	GLU	X	181	19.947	55.529	33.512	0.00	0.00
ATOM	2802	CD	GLU	X	181	21.641	56.900	33.460	0.00	0.00
ATOM	2803	OE1	GLU	X	181	20.921	57.899	33.628	0.00	0.00
ATOM	2804	OE2	GLU	X	181	22.868	57.065	33.447	0.00	0.00
ATOM	2805	C	GLU	X	181	20.245	52.634	32.427	0.00	0.00
ATOM	2806	O	GLU	X	181	19.084	52.876	32.043	0.00	0.00
ATOM	2807	N	ASN	X	182	21.125	51.847	31.733	0.00	0.00
ATOM	2808	H	ASN	X	182	21.979	51.679	32.245	0.00	0.00
ATOM	2809	CA	ASN	X	182	21.061	51.632	30.299	0.00	0.00
ATOM	2810	HA	ASN	X	182	20.149	52.104	29.933	0.00	0.00
ATOM	2811	CB	ASN	X	182	22.293	52.230	29.588	0.00	0.00
ATOM	2812	HB2	ASN	X	182	23.148	51.807	30.114	0.00	0.00
ATOM	2813	HB3	ASN	X	182	22.285	51.948	28.535	0.00	0.00
ATOM	2814	CG	ASN	X	182	22.206	53.804	29.684	0.00	0.00
ATOM	2815	OD1	ASN	X	182	21.215	54.392	29.385	0.00	0.00
ATOM	2816	ND2	ASN	X	182	23.242	54.247	30.337	0.00	0.00
ATOM	2817	HD21	ASN	X	182	23.279	55.252	30.436	0.00	0.00
ATOM	2818	HD22	ASN	X	182	24.007	53.635	30.582	0.00	0.00
ATOM	2819	C	ASN	X	182	20.970	50.160	29.838	0.00	0.00
ATOM	2820	O	ASN	X	182	20.524	49.967	28.670	0.00	0.00
ATOM	2821	N	VAL	X	183	21.344	49.102	30.653	0.00	0.00
ATOM	2822	H	VAL	X	183	21.768	49.305	31.547	0.00	0.00
ATOM	2823	CA	VAL	X	183	21.428	47.642	30.210	0.00	0.00
ATOM	2824	HA	VAL	X	183	22.136	47.596	29.382	0.00	0.00
ATOM	2825	CB	VAL	X	183	22.153	46.766	31.331	0.00	0.00
ATOM	2826	HB	VAL	X	183	22.914	47.441	31.722	0.00	0.00
ATOM	2827	CG1	VAL	X	183	21.208	46.336	32.473	0.00	0.00
ATOM	2828	HG11	VAL	X	183	21.662	45.567	33.098	0.00	0.00
ATOM	2829	HG12	VAL	X	183	20.758	47.112	33.092	0.00	0.00
ATOM	2830	HG13	VAL	X	183	20.336	45.812	32.084	0.00	0.00
ATOM	2831	CG2	VAL	X	183	22.823	45.542	30.644	0.00	0.00
ATOM	2832	HG21	VAL	X	183	23.480	45.877	29.841	0.00	0.00
ATOM	2833	HG22	VAL	X	183	22.059	44.960	30.127	0.00	0.00
ATOM	2834	HG23	VAL	X	183	23.424	44.917	31.304	0.00	0.00
ATOM	2835	C	VAL	X	183	20.085	47.069	29.712	0.00	0.00
ATOM	2836	O	VAL	X	183	19.992	46.080	28.948	0.00	0.00
ATOM	2837	N	ALA	X	184	18.979	47.642	30.175	0.00	0.00
ATOM	2838	H	ALA	X	184	19.014	48.282	30.956	0.00	0.00
ATOM	2839	CA	ALA	X	184	17.672	47.115	29.717	0.00	0.00
ATOM	2840	HA	ALA	X	184	17.729	46.069	30.016	0.00	0.00
ATOM	2841	CB	ALA	X	184	16.612	47.874	30.520	0.00	0.00
ATOM	2842	HB1	ALA	X	184	16.327	48.811	30.042	0.00	0.00
ATOM	2843	HB2	ALA	X	184	16.848	47.977	31.579	0.00	0.00
ATOM	2844	HB3	ALA	X	184	15.668	47.334	30.434	0.00	0.00
ATOM	2845	C	ALA	X	184	17.452	47.194	28.203	0.00	0.00
ATOM	2846	O	ALA	X	184	16.750	46.315	27.649	0.00	0.00
ATOM	2847	N	ALA	X	185	18.064	48.218	27.567	0.00	0.00
ATOM	2848	H	ALA	X	185	18.571	48.877	28.139	0.00	0.00
ATOM	2849	CA	ALA	X	185	18.068	48.428	26.106	0.00	0.00
ATOM	2850	HA	ALA	X	185	17.097	48.793	25.772	0.00	0.00
ATOM	2851	CB	ALA	X	185	19.071	49.495	25.756	0.00	0.00
ATOM	2852	HB1	ALA	X	185	20.083	49.090	25.757	0.00	0.00
ATOM	2853	HB2	ALA	X	185	19.029	50.351	26.429	0.00	0.00
ATOM	2854	HB3	ALA	X	185	18.777	49.859	24.771	0.00	0.00
ATOM	2855	C	ALA	X	185	18.430	47.186	25.305	0.00	0.00
ATOM	2856	O	ALA	X	185	17.953	46.931	24.163	0.00	0.00
ATOM	2857	N	PHE	X	186	19.230	46.269	25.892	0.00	0.00
ATOM	2858	H	PHE	X	186	19.555	46.343	26.846	0.00	0.00

ATOM	2859	CA	PHE	X	186	19.752	45.081	25.239	0.00	0.00
ATOM	2860	HA	PHE	X	186	19.895	45.221	24.167	0.00	0.00
ATOM	2861	CB	PHE	X	186	21.179	44.871	25.722	0.00	0.00
ATOM	2862	HB2	PHE	X	186	21.162	44.699	26.798	0.00	0.00
ATOM	2863	HB3	PHE	X	186	21.563	43.961	25.259	0.00	0.00
ATOM	2864	CG	PHE	X	186	22.171	46.038	25.491	0.00	0.00
ATOM	2865	CD1	PHE	X	186	22.233	47.060	26.472	0.00	0.00
ATOM	2866	HD1	PHE	X	186	21.562	47.082	27.318	0.00	0.00
ATOM	2867	CE1	PHE	X	186	23.229	48.031	26.427	0.00	0.00
ATOM	2868	HE1	PHE	X	186	23.354	48.694	27.270	0.00	0.00
ATOM	2869	CZ	PHE	X	186	24.051	48.112	25.276	0.00	0.00
ATOM	2870	HZ	PHE	X	186	24.737	48.936	25.144	0.00	0.00
ATOM	2871	CE2	PHE	X	186	23.896	47.152	24.273	0.00	0.00
ATOM	2872	HE2	PHE	X	186	24.430	47.239	23.339	0.00	0.00
ATOM	2873	CD2	PHE	X	186	22.997	46.071	24.379	0.00	0.00
ATOM	2874	HD2	PHE	X	186	23.031	45.367	23.561	0.00	0.00
ATOM	2875	C	PHE	X	186	18.966	43.761	25.437	0.00	0.00
ATOM	2876	O	PHE	X	186	19.379	42.735	24.930	0.00	0.00
ATOM	2877	N	GLY	X	187	17.892	43.754	26.207	0.00	0.00
ATOM	2878	H	GLY	X	187	17.648	44.667	26.563	0.00	0.00
ATOM	2879	CA	GLY	X	187	17.250	42.607	26.746	0.00	0.00
ATOM	2880	HA2	GLY	X	187	16.196	42.882	26.705	0.00	0.00
ATOM	2881	HA3	GLY	X	187	17.373	41.835	25.986	0.00	0.00
ATOM	2882	C	GLY	X	187	17.703	42.126	28.116	0.00	0.00
ATOM	2883	O	GLY	X	187	17.262	41.069	28.530	0.00	0.00
ATOM	2884	N	GLY	X	188	18.421	43.006	28.855	0.00	0.00
ATOM	2885	H	GLY	X	188	18.610	43.893	28.410	0.00	0.00
ATOM	2886	CA	GLY	X	188	18.762	42.713	30.276	0.00	0.00
ATOM	2887	HA2	GLY	X	188	18.894	41.637	30.387	0.00	0.00
ATOM	2888	HA3	GLY	X	188	19.691	43.219	30.541	0.00	0.00
ATOM	2889	C	GLY	X	188	17.719	43.194	31.262	0.00	0.00
ATOM	2890	O	GLY	X	188	17.076	44.212	31.083	0.00	0.00
ATOM	2891	N	ASP	X	189	17.539	42.474	32.372	0.00	0.00
ATOM	2892	H	ASP	X	189	17.967	41.561	32.425	0.00	0.00
ATOM	2893	CA	ASP	X	189	16.644	42.832	33.430	0.00	0.00
ATOM	2894	HA	ASP	X	189	15.870	43.501	33.056	0.00	0.00
ATOM	2895	CB	ASP	X	189	16.069	41.563	34.144	0.00	0.00
ATOM	2896	HB2	ASP	X	189	15.425	41.024	33.449	0.00	0.00
ATOM	2897	HB3	ASP	X	189	16.893	40.949	34.507	0.00	0.00
ATOM	2898	CG	ASP	X	189	15.302	41.973	35.430	0.00	0.00
ATOM	2899	OD1	ASP	X	189	15.163	41.089	36.365	0.00	0.00
ATOM	2900	OD2	ASP	X	189	14.688	43.071	35.580	0.00	0.00
ATOM	2901	C	ASP	X	189	17.425	43.646	34.543	0.00	0.00
ATOM	2902	O	ASP	X	189	18.406	43.094	35.132	0.00	0.00
ATOM	2903	N	PRO	X	190	17.115	44.947	34.800	0.00	0.00
ATOM	2904	CD	PRO	X	190	15.979	45.783	34.311	0.00	0.00
ATOM	2905	HD2	PRO	X	190	15.045	45.312	34.617	0.00	0.00
ATOM	2906	HD3	PRO	X	190	16.036	45.827	33.223	0.00	0.00
ATOM	2907	CG	PRO	X	190	16.166	47.163	34.949	0.00	0.00
ATOM	2908	HG2	PRO	X	190	15.515	47.198	35.823	0.00	0.00
ATOM	2909	HG3	PRO	X	190	15.912	47.999	34.298	0.00	0.00
ATOM	2910	CB	PRO	X	190	17.635	47.125	35.358	0.00	0.00
ATOM	2911	HB2	PRO	X	190	17.843	47.862	36.133	0.00	0.00
ATOM	2912	HB3	PRO	X	190	18.293	47.439	34.547	0.00	0.00
ATOM	2913	CA	PRO	X	190	17.901	45.680	35.775	0.00	0.00
ATOM	2914	HA	PRO	X	190	18.979	45.552	35.680	0.00	0.00
ATOM	2915	C	PRO	X	190	17.550	45.359	37.207	0.00	0.00
ATOM	2916	O	PRO	X	190	18.186	45.892	38.128	0.00	0.00
ATOM	2917	N	THR	X	191	16.539	44.481	37.465	0.00	0.00
ATOM	2918	H	THR	X	191	16.125	43.970	36.700	0.00	0.00
ATOM	2919	CA	THR	X	191	16.213	44.041	38.802	0.00	0.00
ATOM	2920	HA	THR	X	191	16.406	44.738	39.618	0.00	0.00
ATOM	2921	CB	THR	X	191	14.727	43.640	38.886	0.00	0.00
ATOM	2922	HB	THR	X	191	14.599	42.587	38.634	0.00	0.00
ATOM	2923	CG2	THR	X	191	14.182	43.911	40.270	0.00	0.00
ATOM	2924	HG21	THR	X	191	14.963	43.675	40.993	0.00	0.00
ATOM	2925	HG22	THR	X	191	13.384	43.184	40.420	0.00	0.00

ATOM	2926	HG23	THR	X	191	13.880	44.947	40.421	0.00	0.00
ATOM	2927	OG1	THR	X	191	13.937	44.354	37.851	0.00	0.00
ATOM	2928	HG1	THR	X	191	14.151	43.879	37.044	0.00	0.00
ATOM	2929	C	THR	X	191	17.070	42.813	39.090	0.00	0.00
ATOM	2930	O	THR	X	191	16.944	42.223	40.163	0.00	0.00
ATOM	2931	N	SER	X	192	17.788	42.264	38.108	0.00	0.00
ATOM	2932	H	SER	X	192	17.851	42.881	37.311	0.00	0.00
ATOM	2933	CA	SER	X	192	18.543	40.996	38.217	0.00	0.00
ATOM	2934	HA	SER	X	192	18.550	40.597	39.231	0.00	0.00
ATOM	2935	CB	SER	X	192	17.878	39.850	37.369	0.00	0.00
ATOM	2936	HB2	SER	X	192	17.653	40.332	36.417	0.00	0.00
ATOM	2937	HB3	SER	X	192	18.664	39.099	37.279	0.00	0.00
ATOM	2938	OG	SER	X	192	16.656	39.333	37.926	0.00	0.00
ATOM	2939	HG	SER	X	192	15.983	39.964	37.659	0.00	0.00
ATOM	2940	C	SER	X	192	19.996	41.285	37.814	0.00	0.00
ATOM	2941	O	SER	X	192	20.532	40.554	36.974	0.00	0.00
ATOM	2942	N	VAL	X	193	20.589	42.341	38.391	0.00	0.00
ATOM	2943	H	VAL	X	193	20.085	42.909	39.058	0.00	0.00
ATOM	2944	CA	VAL	X	193	22.063	42.567	38.264	0.00	0.00
ATOM	2945	HA	VAL	X	193	22.236	42.157	37.269	0.00	0.00
ATOM	2946	CB	VAL	X	193	22.511	44.078	38.268	0.00	0.00
ATOM	2947	HB	VAL	X	193	22.205	44.469	39.239	0.00	0.00
ATOM	2948	CG1	VAL	X	193	24.062	44.291	38.156	0.00	0.00
ATOM	2949	HG11	VAL	X	193	24.340	45.335	38.016	0.00	0.00
ATOM	2950	HG12	VAL	X	193	24.567	43.978	39.069	0.00	0.00
ATOM	2951	HG13	VAL	X	193	24.310	43.802	37.214	0.00	0.00
ATOM	2952	CG2	VAL	X	193	21.755	44.902	37.236	0.00	0.00
ATOM	2953	HG21	VAL	X	193	21.941	44.586	36.209	0.00	0.00
ATOM	2954	HG22	VAL	X	193	22.157	45.915	37.278	0.00	0.00
ATOM	2955	HG23	VAL	X	193	20.686	44.844	37.440	0.00	0.00
ATOM	2956	C	VAL	X	193	22.828	41.651	39.173	0.00	0.00
ATOM	2957	O	VAL	X	193	22.720	41.765	40.411	0.00	0.00
ATOM	2958	N	THR	X	194	23.649	40.732	38.610	0.00	0.00
ATOM	2959	H	THR	X	194	23.888	40.723	37.629	0.00	0.00
ATOM	2960	CA	THR	X	194	24.473	39.804	39.361	0.00	0.00
ATOM	2961	HA	THR	X	194	24.302	39.884	40.435	0.00	0.00
ATOM	2962	CB	THR	X	194	24.189	38.347	38.920	0.00	0.00
ATOM	2963	HB	THR	X	194	24.358	38.126	37.866	0.00	0.00
ATOM	2964	CG2	THR	X	194	25.032	37.316	39.685	0.00	0.00
ATOM	2965	HG21	THR	X	194	25.077	36.425	39.060	0.00	0.00
ATOM	2966	HG22	THR	X	194	24.506	37.017	40.592	0.00	0.00
ATOM	2967	HG23	THR	X	194	26.009	37.709	39.969	0.00	0.00
ATOM	2968	OG1	THR	X	194	22.909	37.919	39.210	0.00	0.00
ATOM	2969	HG1	THR	X	194	22.295	38.654	39.151	0.00	0.00
ATOM	2970	C	THR	X	194	25.962	40.122	38.954	0.00	0.00
ATOM	2971	O	THR	X	194	26.346	40.121	37.804	0.00	0.00
ATOM	2972	N	LEU	X	195	26.794	40.416	39.991	0.00	0.00
ATOM	2973	H	LEU	X	195	26.414	40.368	40.925	0.00	0.00
ATOM	2974	CA	LEU	X	195	28.231	40.694	39.795	0.00	0.00
ATOM	2975	HA	LEU	X	195	28.450	41.098	38.806	0.00	0.00
ATOM	2976	CB	LEU	X	195	28.749	41.641	40.906	0.00	0.00
ATOM	2977	HB2	LEU	X	195	28.551	41.081	41.819	0.00	0.00
ATOM	2978	HB3	LEU	X	195	29.838	41.664	40.852	0.00	0.00
ATOM	2979	CG	LEU	X	195	28.134	43.048	41.077	0.00	0.00
ATOM	2980	HG	LEU	X	195	27.143	42.840	41.481	0.00	0.00
ATOM	2981	CD1	LEU	X	195	29.030	43.862	41.975	0.00	0.00
ATOM	2982	HD11	LEU	X	195	28.562	44.847	41.994	0.00	0.00
ATOM	2983	HD12	LEU	X	195	30.016	43.985	41.528	0.00	0.00
ATOM	2984	HD13	LEU	X	195	29.157	43.497	42.994	0.00	0.00
ATOM	2985	CD2	LEU	X	195	27.848	43.741	39.786	0.00	0.00
ATOM	2986	HD21	LEU	X	195	27.158	44.552	40.022	0.00	0.00
ATOM	2987	HD22	LEU	X	195	28.823	44.077	39.432	0.00	0.00
ATOM	2988	HD23	LEU	X	195	27.354	43.069	39.085	0.00	0.00
ATOM	2989	C	LEU	X	195	29.032	39.414	39.912	0.00	0.00
ATOM	2990	O	LEU	X	195	28.763	38.685	40.846	0.00	0.00
ATOM	2991	N	PHE	X	196	30.035	39.117	39.093	0.00	0.00
ATOM	2992	H	PHE	X	196	30.158	39.682	38.265	0.00	0.00

ATOM	2993	CA	PHE	X	196	30.879	37.920	39.029	0.00	0.00
ATOM	2994	HA	PHE	X	196	30.919	37.503	40.035	0.00	0.00
ATOM	2995	CB	PHE	X	196	30.150	36.795	38.273	0.00	0.00
ATOM	2996	HB2	PHE	X	196	30.663	35.862	38.510	0.00	0.00
ATOM	2997	HB3	PHE	X	196	29.102	36.645	38.531	0.00	0.00
ATOM	2998	CG	PHE	X	196	30.234	36.796	36.728	0.00	0.00
ATOM	2999	CD1	PHE	X	196	30.018	37.944	35.967	0.00	0.00
ATOM	3000	HD1	PHE	X	196	29.739	38.915	36.348	0.00	0.00
ATOM	3001	CE1	PHE	X	196	30.096	37.988	34.548	0.00	0.00
ATOM	3002	HE1	PHE	X	196	29.940	38.885	33.967	0.00	0.00
ATOM	3003	CZ	PHE	X	196	30.332	36.746	33.961	0.00	0.00
ATOM	3004	HZ	PHE	X	196	30.271	36.677	32.885	0.00	0.00
ATOM	3005	CE2	PHE	X	196	30.547	35.512	34.695	0.00	0.00
ATOM	3006	HE2	PHE	X	196	30.617	34.573	34.166	0.00	0.00
ATOM	3007	CD2	PHE	X	196	30.500	35.574	36.105	0.00	0.00
ATOM	3008	HD2	PHE	X	196	30.645	34.640	36.628	0.00	0.00
ATOM	3009	C	PHE	X	196	32.318	38.253	38.515	0.00	0.00
ATOM	3010	O	PHE	X	196	32.484	39.260	37.838	0.00	0.00
ATOM	3011	N	GLY	X	197	33.299	37.420	38.862	0.00	0.00
ATOM	3012	H	GLY	X	197	33.077	36.590	39.394	0.00	0.00
ATOM	3013	CA	GLY	X	197	34.738	37.732	38.739	0.00	0.00
ATOM	3014	HA2	GLY	X	197	35.115	37.646	37.720	0.00	0.00
ATOM	3015	HA3	GLY	X	197	34.784	38.759	39.099	0.00	0.00
ATOM	3016	C	GLY	X	197	35.690	36.831	39.608	0.00	0.00
ATOM	3017	O	GLY	X	197	35.278	36.338	40.679	0.00	0.00
ATOM	3018	N	GLU	X	198	36.908	36.746	39.066	0.00	0.00
ATOM	3019	H	GLU	X	198	37.133	37.310	38.259	0.00	0.00
ATOM	3020	CA	GLU	X	198	37.914	35.940	39.674	0.00	0.00
ATOM	3021	HA	GLU	X	198	37.421	35.453	40.516	0.00	0.00
ATOM	3022	CB	GLU	X	198	38.438	34.761	38.761	0.00	0.00
ATOM	3023	HB2	GLU	X	198	39.326	34.284	39.176	0.00	0.00
ATOM	3024	HB3	GLU	X	198	37.684	33.993	38.590	0.00	0.00
ATOM	3025	CG	GLU	X	198	38.896	35.042	37.254	0.00	0.00
ATOM	3026	HG2	GLU	X	198	39.233	34.113	36.794	0.00	0.00
ATOM	3027	HG3	GLU	X	198	38.004	35.363	36.716	0.00	0.00
ATOM	3028	CD	GLU	X	198	39.921	36.236	37.003	0.00	0.00
ATOM	3029	OE1	GLU	X	198	39.755	36.997	35.988	0.00	0.00
ATOM	3030	OE2	GLU	X	198	41.013	36.225	37.580	0.00	0.00
ATOM	3031	C	GLU	X	198	39.060	36.824	40.151	0.00	0.00
ATOM	3032	O	GLU	X	198	39.179	37.959	39.658	0.00	0.00
ATOM	3033	N	XA1	X	199	39.764	36.362	41.127	0.00	0.00
ATOM	3034	CA	XA1	X	199	41.021	36.928	41.672	0.00	0.00
ATOM	3035	C	XA1	X	199	40.799	38.354	42.226	0.00	0.00
ATOM	3036	O	XA1	X	199	39.994	38.668	43.062	0.00	0.00
ATOM	3037	CB	XA1	X	199	42.223	36.801	40.701	0.00	0.00
ATOM	3038	OG	XA1	X	199	43.410	36.761	41.564	0.00	0.00
ATOM	3039	P1	XA1	X	199	44.517	37.795	41.197	0.00	0.00
ATOM	3040	O1	XA1	X	199	44.107	39.031	40.535	0.00	0.00
ATOM	3041	O2	XA1	X	199	45.337	37.130	40.164	0.00	0.00
ATOM	3042	C1	XA1	X	199	45.568	37.961	42.612	0.00	0.00
ATOM	3043	H	XA1	X	199	39.318	35.670	41.711	0.00	0.00
ATOM	3044	HA	XA1	X	199	41.108	36.279	42.543	0.00	0.00
ATOM	3045	HB2	XA1	X	199	42.193	35.813	40.235	0.00	0.00
ATOM	3046	HB3	XA1	X	199	42.265	37.592	39.948	0.00	0.00
ATOM	3047	H11	XA1	X	199	46.126	37.028	42.717	0.00	0.00
ATOM	3048	H12	XA1	X	199	46.095	38.896	42.412	0.00	0.00
ATOM	3049	H13	XA1	X	199	44.944	38.131	43.492	0.00	0.00
ATOM	3050	N	ALA	X	200	41.590	39.364	41.722	0.00	0.00
ATOM	3051	H	ALA	X	200	42.230	39.273	40.945	0.00	0.00
ATOM	3052	CA	ALA	X	200	41.325	40.804	42.076	0.00	0.00
ATOM	3053	HA	ALA	X	200	41.365	41.021	43.144	0.00	0.00
ATOM	3054	CB	ALA	X	200	42.379	41.718	41.342	0.00	0.00
ATOM	3055	HB1	ALA	X	200	41.973	42.693	41.071	0.00	0.00
ATOM	3056	HB2	ALA	X	200	42.713	41.350	40.372	0.00	0.00
ATOM	3057	HB3	ALA	X	200	43.280	41.781	41.952	0.00	0.00
ATOM	3058	C	ALA	X	200	39.924	41.217	41.708	0.00	0.00
ATOM	3059	O	ALA	X	200	39.407	42.127	42.380	0.00	0.00

ATOM	3060	N	GLY	X	201	39.268	40.541	40.756	0.00	0.00
ATOM	3061	H	GLY	X	201	39.740	39.746	40.349	0.00	0.00
ATOM	3062	CA	GLY	X	201	37.807	40.540	40.437	0.00	0.00
ATOM	3063	HA2	GLY	X	201	37.525	41.520	40.051	0.00	0.00
ATOM	3064	HA3	GLY	X	201	37.640	39.938	39.544	0.00	0.00
ATOM	3065	C	GLY	X	201	36.901	40.144	41.536	0.00	0.00
ATOM	3066	O	GLY	X	201	36.036	40.947	41.973	0.00	0.00
ATOM	3067	N	ALA	X	202	37.134	38.943	42.081	0.00	0.00
ATOM	3068	H	ALA	X	202	37.902	38.361	41.779	0.00	0.00
ATOM	3069	CA	ALA	X	202	36.295	38.315	43.107	0.00	0.00
ATOM	3070	HA	ALA	X	202	35.257	38.253	42.778	0.00	0.00
ATOM	3071	CB	ALA	X	202	36.740	36.861	43.426	0.00	0.00
ATOM	3072	HB1	ALA	X	202	36.608	36.144	42.616	0.00	0.00
ATOM	3073	HB2	ALA	X	202	36.151	36.516	44.276	0.00	0.00
ATOM	3074	HB3	ALA	X	202	37.808	36.864	43.645	0.00	0.00
ATOM	3075	C	ALA	X	202	36.480	39.159	44.386	0.00	0.00
ATOM	3076	O	ALA	X	202	35.511	39.573	44.989	0.00	0.00
ATOM	3077	N	ALA	X	203	37.718	39.603	44.669	0.00	0.00
ATOM	3078	H	ALA	X	203	38.506	39.265	44.135	0.00	0.00
ATOM	3079	CA	ALA	X	203	37.952	40.573	45.664	0.00	0.00
ATOM	3080	HA	ALA	X	203	37.528	40.205	46.598	0.00	0.00
ATOM	3081	CB	ALA	X	203	39.449	40.844	45.755	0.00	0.00
ATOM	3082	HB1	ALA	X	203	39.607	41.521	46.594	0.00	0.00
ATOM	3083	HB2	ALA	X	203	39.808	41.134	44.767	0.00	0.00
ATOM	3084	HB3	ALA	X	203	39.863	39.854	45.942	0.00	0.00
ATOM	3085	C	ALA	X	203	37.149	41.872	45.413	0.00	0.00
ATOM	3086	O	ALA	X	203	36.556	42.333	46.330	0.00	0.00
ATOM	3087	N	SER	X	204	37.182	42.420	44.153	0.00	0.00
ATOM	3088	H	SER	X	204	37.879	42.030	43.534	0.00	0.00
ATOM	3089	CA	SER	X	204	36.410	43.607	43.736	0.00	0.00
ATOM	3090	HA	SER	X	204	36.623	44.457	44.384	0.00	0.00
ATOM	3091	CB	SER	X	204	36.692	43.932	42.291	0.00	0.00
ATOM	3092	HB2	SER	X	204	36.704	43.043	41.661	0.00	0.00
ATOM	3093	HB3	SER	X	204	35.898	44.635	42.038	0.00	0.00
ATOM	3094	OG	SER	X	204	37.949	44.546	42.045	0.00	0.00
ATOM	3095	HG	SER	X	204	38.661	43.939	42.259	0.00	0.00
ATOM	3096	C	SER	X	204	34.835	43.453	43.940	0.00	0.00
ATOM	3097	O	SER	X	204	34.128	44.369	44.289	0.00	0.00
ATOM	3098	N	VAL	X	205	34.303	42.251	43.673	0.00	0.00
ATOM	3099	H	VAL	X	205	34.896	41.512	43.323	0.00	0.00
ATOM	3100	CA	VAL	X	205	32.902	41.935	43.940	0.00	0.00
ATOM	3101	HA	VAL	X	205	32.221	42.577	43.381	0.00	0.00
ATOM	3102	CB	VAL	X	205	32.423	40.624	43.300	0.00	0.00
ATOM	3103	HB	VAL	X	205	32.909	39.768	43.766	0.00	0.00
ATOM	3104	CG1	VAL	X	205	30.956	40.341	43.533	0.00	0.00
ATOM	3105	HG11	VAL	X	205	30.420	41.262	43.304	0.00	0.00
ATOM	3106	HG12	VAL	X	205	30.634	39.585	42.818	0.00	0.00
ATOM	3107	HG13	VAL	X	205	30.822	40.084	44.584	0.00	0.00
ATOM	3108	CG2	VAL	X	205	32.741	40.481	41.817	0.00	0.00
ATOM	3109	HG21	VAL	X	205	32.208	41.323	41.376	0.00	0.00
ATOM	3110	HG22	VAL	X	205	32.414	39.521	41.419	0.00	0.00
ATOM	3111	HG23	VAL	X	205	33.803	40.641	41.628	0.00	0.00
ATOM	3112	C	VAL	X	205	32.584	41.962	45.441	0.00	0.00
ATOM	3113	O	VAL	X	205	31.502	42.446	45.864	0.00	0.00
ATOM	3114	N	GLY	X	206	33.503	41.513	46.298	0.00	0.00
ATOM	3115	H	GLY	X	206	34.386	41.199	45.924	0.00	0.00
ATOM	3116	CA	GLY	X	206	33.480	41.643	47.716	0.00	0.00
ATOM	3117	HA2	GLY	X	206	32.596	41.129	48.093	0.00	0.00
ATOM	3118	HA3	GLY	X	206	34.303	41.068	48.139	0.00	0.00
ATOM	3119	C	GLY	X	206	33.626	43.071	48.271	0.00	0.00
ATOM	3120	O	GLY	X	206	33.032	43.366	49.248	0.00	0.00
ATOM	3121	N	MET	X	207	34.478	43.913	47.723	0.00	0.00
ATOM	3122	H	MET	X	207	34.937	43.569	46.891	0.00	0.00
ATOM	3123	CA	MET	X	207	34.695	45.372	48.037	0.00	0.00
ATOM	3124	HA	MET	X	207	34.981	45.564	49.071	0.00	0.00
ATOM	3125	CB	MET	X	207	35.743	45.959	47.128	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.418	45.848	46.094	0.00	0.00

ATOM	3127	HB3	MET	X	207	35.946	47.005	47.356	0.00	0.00
ATOM	3128	CG	MET	X	207	37.145	45.318	47.318	0.00	0.00
ATOM	3129	HG2	MET	X	207	37.183	44.233	47.220	0.00	0.00
ATOM	3130	HG3	MET	X	207	37.837	45.843	46.660	0.00	0.00
ATOM	3131	SD	MET	X	207	37.830	45.902	48.894	0.00	0.00
ATOM	3132	CE	MET	X	207	39.127	44.625	49.133	0.00	0.00
ATOM	3133	HE1	MET	X	207	38.579	43.751	49.484	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.519	44.421	48.136	0.00	0.00
ATOM	3135	HE3	MET	X	207	39.922	44.983	49.788	0.00	0.00
ATOM	3136	C	MET	X	207	33.359	46.060	47.672	0.00	0.00
ATOM	3137	O	MET	X	207	32.917	46.919	48.379	0.00	0.00
ATOM	3138	N	HIE	X	208	32.636	45.770	46.541	0.00	0.00
ATOM	3139	H	HIE	X	208	33.118	45.246	45.825	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.305	46.334	46.292	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.356	47.417	46.396	0.00	0.00
ATOM	3142	CB	HIE	X	208	30.919	46.009	44.850	0.00	0.00
ATOM	3143	HB2	HIE	X	208	31.013	44.926	44.769	0.00	0.00
ATOM	3144	HB3	HIE	X	208	29.836	46.131	44.858	0.00	0.00
ATOM	3145	CG	HIE	X	208	31.643	46.832	43.795	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.041	48.176	43.875	0.00	0.00
ATOM	3147	CE1	HIE	X	208	32.762	48.357	42.790	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.259	49.292	42.575	0.00	0.00
ATOM	3149	NE2	HIE	X	208	32.770	47.278	42.013	0.00	0.00
ATOM	3150	HE2	HIE	X	208	33.371	47.215	41.204	0.00	0.00
ATOM	3151	CD2	HIE	X	208	32.052	46.303	42.601	0.00	0.00
ATOM	3152	HD2	HIE	X	208	32.049	45.272	42.279	0.00	0.00
ATOM	3153	C	HIE	X	208	30.280	45.936	47.355	0.00	0.00
ATOM	3154	O	HIE	X	208	29.262	46.650	47.503	0.00	0.00
ATOM	3155	N	LEU	X	209	30.460	44.815	48.030	0.00	0.00
ATOM	3156	H	LEU	X	209	31.247	44.241	47.765	0.00	0.00
ATOM	3157	CA	LEU	X	209	29.570	44.317	49.024	0.00	0.00
ATOM	3158	HA	LEU	X	209	28.529	44.518	48.768	0.00	0.00
ATOM	3159	CB	LEU	X	209	29.852	42.764	49.188	0.00	0.00
ATOM	3160	HB2	LEU	X	209	30.933	42.621	49.192	0.00	0.00
ATOM	3161	HB3	LEU	X	209	29.523	42.491	50.191	0.00	0.00
ATOM	3162	CG	LEU	X	209	29.130	41.847	48.208	0.00	0.00
ATOM	3163	HG	LEU	X	209	29.355	42.329	47.256	0.00	0.00
ATOM	3164	CD1	LEU	X	209	29.732	40.372	48.324	0.00	0.00
ATOM	3165	HD11	LEU	X	209	29.641	40.173	49.392	0.00	0.00
ATOM	3166	HD12	LEU	X	209	30.816	40.300	48.231	0.00	0.00
ATOM	3167	HD13	LEU	X	209	29.122	39.699	47.722	0.00	0.00
ATOM	3168	CD2	LEU	X	209	27.588	41.854	48.426	0.00	0.00
ATOM	3169	HD21	LEU	X	209	27.171	42.844	48.240	0.00	0.00
ATOM	3170	HD22	LEU	X	209	27.078	41.170	47.748	0.00	0.00
ATOM	3171	HD23	LEU	X	209	27.487	41.305	49.363	0.00	0.00
ATOM	3172	C	LEU	X	209	29.719	45.037	50.390	0.00	0.00
ATOM	3173	O	LEU	X	209	28.887	44.855	51.240	0.00	0.00
ATOM	3174	N	LEU	X	210	30.710	45.944	50.490	0.00	0.00
ATOM	3175	H	LEU	X	210	31.304	46.102	49.689	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.098	46.657	51.727	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.393	46.371	52.508	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.525	46.302	52.105	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.280	46.396	51.325	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.894	46.971	52.882	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.781	44.837	52.635	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.610	44.167	51.792	0.00	0.00
ATOM	3183	CD1	LEU	X	210	34.237	44.637	53.016	0.00	0.00
ATOM	3184	HD11	LEU	X	210	34.521	45.177	53.919	0.00	0.00
ATOM	3185	HD12	LEU	X	210	34.894	44.779	52.157	0.00	0.00
ATOM	3186	HD13	LEU	X	210	34.378	43.573	53.206	0.00	0.00
ATOM	3187	CD2	LEU	X	210	31.907	44.472	53.853	0.00	0.00
ATOM	3188	HD21	LEU	X	210	32.115	43.420	54.047	0.00	0.00
ATOM	3189	HD22	LEU	X	210	32.056	45.142	54.699	0.00	0.00
ATOM	3190	HD23	LEU	X	210	30.870	44.568	53.532	0.00	0.00
ATOM	3191	C	LEU	X	210	30.934	48.201	51.415	0.00	0.00
ATOM	3192	O	LEU	X	210	30.453	48.903	52.268	0.00	0.00
ATOM	3193	N	SER	X	211	31.110	48.590	50.173	0.00	0.00

ATOM	3194	H	SER	X	211	31.368	47.876	49.507	0.00	0.00
ATOM	3195	CA	SER	X	211	30.859	49.932	49.714	0.00	0.00
ATOM	3196	HA	SER	X	211	31.153	50.677	50.454	0.00	0.00
ATOM	3197	CB	SER	X	211	31.826	50.245	48.657	0.00	0.00
ATOM	3198	HB2	SER	X	211	32.806	49.806	48.843	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.415	49.858	47.724	0.00	0.00
ATOM	3200	OG	SER	X	211	31.911	51.668	48.663	0.00	0.00
ATOM	3201	HG	SER	X	211	32.393	51.881	49.465	0.00	0.00
ATOM	3202	C	SER	X	211	29.393	50.328	49.305	0.00	0.00
ATOM	3203	O	SER	X	211	28.916	49.897	48.291	0.00	0.00
ATOM	3204	N	PRO	X	212	28.730	51.136	50.168	0.00	0.00
ATOM	3205	CD	PRO	X	212	29.279	51.728	51.398	0.00	0.00
ATOM	3206	HD2	PRO	X	212	29.795	52.646	51.118	0.00	0.00
ATOM	3207	HD3	PRO	X	212	29.912	51.019	51.933	0.00	0.00
ATOM	3208	CG	PRO	X	212	28.129	52.142	52.307	0.00	0.00
ATOM	3209	HG2	PRO	X	212	28.400	53.094	52.763	0.00	0.00
ATOM	3210	HG3	PRO	X	212	27.945	51.337	53.019	0.00	0.00
ATOM	3211	CB	PRO	X	212	26.921	52.257	51.310	0.00	0.00
ATOM	3212	HB2	PRO	X	212	26.821	53.305	51.027	0.00	0.00
ATOM	3213	HB3	PRO	X	212	26.011	51.903	51.795	0.00	0.00
ATOM	3214	CA	PRO	X	212	27.280	51.341	50.139	0.00	0.00
ATOM	3215	HA	PRO	X	212	26.842	50.361	50.329	0.00	0.00
ATOM	3216	C	PRO	X	212	26.691	51.839	48.779	0.00	0.00
ATOM	3217	O	PRO	X	212	25.714	51.277	48.309	0.00	0.00
ATOM	3218	N	PRO	X	213	27.183	52.918	48.215	0.00	0.00
ATOM	3219	CD	PRO	X	213	28.364	53.693	48.522	0.00	0.00
ATOM	3220	HD2	PRO	X	213	29.312	53.157	48.471	0.00	0.00
ATOM	3221	HD3	PRO	X	213	28.290	54.184	49.493	0.00	0.00
ATOM	3222	CG	PRO	X	213	28.411	54.817	47.433	0.00	0.00
ATOM	3223	HG2	PRO	X	213	29.058	54.518	46.608	0.00	0.00
ATOM	3224	HG3	PRO	X	213	28.715	55.710	47.978	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.988	54.887	46.932	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.990	55.220	45.894	0.00	0.00
ATOM	3227	HB3	PRO	X	213	26.235	55.413	47.518	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.658	53.396	46.965	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.592	53.178	46.896	0.00	0.00
ATOM	3230	C	PRO	X	213	27.045	52.614	45.695	0.00	0.00
ATOM	3231	O	PRO	X	213	26.357	52.844	44.687	0.00	0.00
ATOM	3232	N	SER	X	214	27.877	51.489	45.804	0.00	0.00
ATOM	3233	H	SER	X	214	28.567	51.418	46.538	0.00	0.00
ATOM	3234	CA	SER	X	214	27.890	50.379	44.778	0.00	0.00
ATOM	3235	HA	SER	X	214	27.726	50.709	43.752	0.00	0.00
ATOM	3236	CB	SER	X	214	29.257	49.702	44.817	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.201	49.060	45.696	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.445	49.026	43.982	0.00	0.00
ATOM	3239	OG	SER	X	214	30.346	50.559	45.074	0.00	0.00
ATOM	3240	HG	SER	X	214	31.065	50.097	44.637	0.00	0.00
ATOM	3241	C	SER	X	214	26.858	49.387	45.067	0.00	0.00
ATOM	3242	O	SER	X	214	26.239	48.768	44.157	0.00	0.00
ATOM	3243	N	ARG	X	215	26.620	49.092	46.336	0.00	0.00
ATOM	3244	H	ARG	X	215	27.266	49.535	46.973	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.865	47.900	46.900	0.00	0.00
ATOM	3246	HA	ARG	X	215	26.152	46.930	46.494	0.00	0.00
ATOM	3247	CB	ARG	X	215	26.215	47.838	48.414	0.00	0.00
ATOM	3248	HB2	ARG	X	215	27.276	47.741	48.646	0.00	0.00
ATOM	3249	HB3	ARG	X	215	25.852	48.785	48.813	0.00	0.00
ATOM	3250	CG	ARG	X	215	25.472	46.651	49.059	0.00	0.00
ATOM	3251	HG2	ARG	X	215	24.394	46.755	49.188	0.00	0.00
ATOM	3252	HG3	ARG	X	215	25.625	45.822	48.368	0.00	0.00
ATOM	3253	CD	ARG	X	215	26.033	46.326	50.482	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.903	45.670	50.497	0.00	0.00
ATOM	3255	HD3	ARG	X	215	26.368	47.208	51.029	0.00	0.00
ATOM	3256	NE	ARG	X	215	25.043	45.670	51.274	0.00	0.00
ATOM	3257	HE	ARG	X	215	24.087	45.780	50.967	0.00	0.00
ATOM	3258	CZ	ARG	X	215	25.238	45.161	52.526	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.434	45.028	52.997	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.139	45.407	52.380	0.00	0.00

ATOM	3261	HH12	ARG	X	215	26.634	44.554	53.866	0.00	0.00
ATOM	3262	NH2	ARG	X	215	24.212	44.811	53.316	0.00	0.00
ATOM	3263	HH21	ARG	X	215	23.267	44.809	52.959	0.00	0.00
ATOM	3264	HH22	ARG	X	215	24.251	44.562	54.294	0.00	0.00
ATOM	3265	C	ARG	X	215	24.386	47.923	46.608	0.00	0.00
ATOM	3266	O	ARG	X	215	23.781	46.885	46.442	0.00	0.00
ATOM	3267	N	GLY	X	216	23.861	49.090	46.382	0.00	0.00
ATOM	3268	H	GLY	X	216	24.528	49.848	46.340	0.00	0.00
ATOM	3269	CA	GLY	X	216	22.474	49.305	45.848	0.00	0.00
ATOM	3270	HA2	GLY	X	216	21.891	48.455	46.202	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.153	50.283	46.207	0.00	0.00
ATOM	3272	C	GLY	X	216	22.499	49.342	44.291	0.00	0.00
ATOM	3273	O	GLY	X	216	21.413	49.571	43.760	0.00	0.00
ATOM	3274	N	LEU	X	217	23.610	49.236	43.604	0.00	0.00
ATOM	3275	H	LEU	X	217	24.411	49.062	44.195	0.00	0.00
ATOM	3276	CA	LEU	X	217	23.628	49.121	42.120	0.00	0.00
ATOM	3277	HA	LEU	X	217	22.768	49.528	41.588	0.00	0.00
ATOM	3278	CB	LEU	X	217	24.869	49.893	41.558	0.00	0.00
ATOM	3279	HB2	LEU	X	217	25.729	49.297	41.865	0.00	0.00
ATOM	3280	HB3	LEU	X	217	24.728	49.925	40.478	0.00	0.00
ATOM	3281	CG	LEU	X	217	25.119	51.308	42.089	0.00	0.00
ATOM	3282	HG	LEU	X	217	25.228	51.231	43.171	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.416	51.940	41.599	0.00	0.00
ATOM	3284	HD11	LEU	X	217	27.244	51.269	41.827	0.00	0.00
ATOM	3285	HD12	LEU	X	217	26.523	52.920	42.065	0.00	0.00
ATOM	3286	HD13	LEU	X	217	26.379	51.987	40.510	0.00	0.00
ATOM	3287	CD2	LEU	X	217	23.937	52.239	41.735	0.00	0.00
ATOM	3288	HD21	LEU	X	217	23.864	52.343	40.652	0.00	0.00
ATOM	3289	HD22	LEU	X	217	22.979	51.860	42.091	0.00	0.00
ATOM	3290	HD23	LEU	X	217	24.097	53.207	42.209	0.00	0.00
ATOM	3291	C	LEU	X	217	23.605	47.629	41.642	0.00	0.00
ATOM	3292	O	LEU	X	217	23.523	47.395	40.454	0.00	0.00
ATOM	3293	N	PHE	X	218	23.402	46.727	42.542	0.00	0.00
ATOM	3294	H	PHE	X	218	23.430	46.931	43.530	0.00	0.00
ATOM	3295	CA	PHE	X	218	23.360	45.288	42.218	0.00	0.00
ATOM	3296	HA	PHE	X	218	22.732	45.153	41.338	0.00	0.00
ATOM	3297	CB	PHE	X	218	24.733	44.747	41.811	0.00	0.00
ATOM	3298	HB2	PHE	X	218	24.616	43.798	41.288	0.00	0.00
ATOM	3299	HB3	PHE	X	218	25.262	45.416	41.132	0.00	0.00
ATOM	3300	CG	PHE	X	218	25.672	44.628	42.960	0.00	0.00
ATOM	3301	CD1	PHE	X	218	26.382	45.756	43.390	0.00	0.00
ATOM	3302	HD1	PHE	X	218	26.400	46.635	42.763	0.00	0.00
ATOM	3303	CE1	PHE	X	218	27.241	45.732	44.468	0.00	0.00
ATOM	3304	HE1	PHE	X	218	27.774	46.612	44.796	0.00	0.00
ATOM	3305	CZ	PHE	X	218	27.390	44.494	45.217	0.00	0.00
ATOM	3306	HZ	PHE	X	218	28.146	44.510	45.988	0.00	0.00
ATOM	3307	CE2	PHE	X	218	26.705	43.295	44.861	0.00	0.00
ATOM	3308	HE2	PHE	X	218	26.912	42.351	45.344	0.00	0.00
ATOM	3309	CD2	PHE	X	218	25.880	43.399	43.693	0.00	0.00
ATOM	3310	HD2	PHE	X	218	25.347	42.506	43.401	0.00	0.00
ATOM	3311	C	PHE	X	218	22.729	44.461	43.349	0.00	0.00
ATOM	3312	O	PHE	X	218	22.356	44.962	44.371	0.00	0.00
ATOM	3313	N	HIE	X	219	22.563	43.197	43.018	0.00	0.00
ATOM	3314	H	HIE	X	219	22.749	42.793	42.111	0.00	0.00
ATOM	3315	CA	HIE	X	219	21.713	42.313	43.858	0.00	0.00
ATOM	3316	HA	HIE	X	219	21.274	42.876	44.682	0.00	0.00
ATOM	3317	CB	HIE	X	219	20.436	41.962	43.057	0.00	0.00
ATOM	3318	HB2	HIE	X	219	20.653	41.260	42.252	0.00	0.00
ATOM	3319	HB3	HIE	X	219	19.689	41.388	43.607	0.00	0.00
ATOM	3320	CG	HIE	X	219	19.798	43.121	42.370	0.00	0.00
ATOM	3321	ND1	HIE	X	219	20.192	43.656	41.093	0.00	0.00
ATOM	3322	CE1	HIE	X	219	19.520	44.776	40.982	0.00	0.00
ATOM	3323	HE1	HIE	X	219	19.530	45.400	40.100	0.00	0.00
ATOM	3324	NE2	HIE	X	219	18.581	44.887	41.947	0.00	0.00
ATOM	3325	HE2	HIE	X	219	17.810	45.537	41.900	0.00	0.00
ATOM	3326	CD2	HIE	X	219	18.849	43.975	42.839	0.00	0.00
ATOM	3327	HD2	HIE	X	219	18.310	43.756	43.749	0.00	0.00

ATOM	3328	C	HIE	X	219	22.400	41.017	44.356	0.00	0.00
ATOM	3329	O	HIE	X	219	22.566	40.843	45.554	0.00	0.00
ATOM	3330	N	ARG	X	220	22.935	40.218	43.364	0.00	0.00
ATOM	3331	H	ARG	X	220	23.000	40.576	42.422	0.00	0.00
ATOM	3332	CA	ARG	X	220	23.521	38.876	43.660	0.00	0.00
ATOM	3333	HA	ARG	X	220	23.382	38.664	44.720	0.00	0.00
ATOM	3334	CB	ARG	X	220	22.832	37.770	42.835	0.00	0.00
ATOM	3335	HB2	ARG	X	220	22.874	37.938	41.759	0.00	0.00
ATOM	3336	HB3	ARG	X	220	23.273	36.800	43.062	0.00	0.00
ATOM	3337	CG	ARG	X	220	21.384	37.737	43.236	0.00	0.00
ATOM	3338	HG2	ARG	X	220	21.431	37.605	44.317	0.00	0.00
ATOM	3339	HG3	ARG	X	220	21.019	38.721	42.943	0.00	0.00
ATOM	3340	CD	ARG	X	220	20.519	36.617	42.634	0.00	0.00
ATOM	3341	HD2	ARG	X	220	20.580	36.794	41.560	0.00	0.00
ATOM	3342	HD3	ARG	X	220	20.960	35.635	42.807	0.00	0.00
ATOM	3343	NE	ARG	X	220	19.129	36.720	43.101	0.00	0.00
ATOM	3344	HE	ARG	X	220	19.072	36.993	44.072	0.00	0.00
ATOM	3345	CZ	ARG	X	220	18.058	36.611	42.361	0.00	0.00
ATOM	3346	NH1	ARG	X	220	18.121	36.278	41.049	0.00	0.00
ATOM	3347	HH11	ARG	X	220	18.979	35.969	40.615	0.00	0.00
ATOM	3348	HH12	ARG	X	220	17.371	36.708	40.527	0.00	0.00
ATOM	3349	NH2	ARG	X	220	16.865	36.880	42.909	0.00	0.00
ATOM	3350	HH21	ARG	X	220	16.732	37.199	43.858	0.00	0.00
ATOM	3351	HH22	ARG	X	220	16.007	36.731	42.397	0.00	0.00
ATOM	3352	C	ARG	X	220	25.019	38.846	43.391	0.00	0.00
ATOM	3353	O	ARG	X	220	25.444	39.607	42.557	0.00	0.00
ATOM	3354	N	ALA	X	221	25.813	38.017	43.949	0.00	0.00
ATOM	3355	H	ALA	X	221	25.366	37.665	44.783	0.00	0.00
ATOM	3356	CA	ALA	X	221	27.283	38.127	43.945	0.00	0.00
ATOM	3357	HA	ALA	X	221	27.626	38.663	43.060	0.00	0.00
ATOM	3358	CB	ALA	X	221	27.617	38.999	45.150	0.00	0.00
ATOM	3359	HB1	ALA	X	221	28.670	39.246	45.016	0.00	0.00
ATOM	3360	HB2	ALA	X	221	27.639	38.499	46.118	0.00	0.00
ATOM	3361	HB3	ALA	X	221	26.969	39.874	45.203	0.00	0.00
ATOM	3362	C	ALA	X	221	28.098	36.851	43.937	0.00	0.00
ATOM	3363	O	ALA	X	221	27.916	36.023	44.786	0.00	0.00
ATOM	3364	N	VAL	X	222	29.045	36.756	42.963	0.00	0.00
ATOM	3365	H	VAL	X	222	29.024	37.534	42.319	0.00	0.00
ATOM	3366	CA	VAL	X	222	29.884	35.560	42.711	0.00	0.00
ATOM	3367	HA	VAL	X	222	29.626	34.806	43.455	0.00	0.00
ATOM	3368	CB	VAL	X	222	29.586	34.941	41.264	0.00	0.00
ATOM	3369	HB	VAL	X	222	29.806	35.738	40.553	0.00	0.00
ATOM	3370	CG1	VAL	X	222	30.564	33.821	40.908	0.00	0.00
ATOM	3371	HG11	VAL	X	222	30.424	33.683	39.835	0.00	0.00
ATOM	3372	HG12	VAL	X	222	31.559	34.257	40.989	0.00	0.00
ATOM	3373	HG13	VAL	X	222	30.433	32.868	41.421	0.00	0.00
ATOM	3374	CG2	VAL	X	222	28.172	34.479	40.990	0.00	0.00
ATOM	3375	HG21	VAL	X	222	28.008	34.528	39.914	0.00	0.00
ATOM	3376	HG22	VAL	X	222	27.432	35.263	41.150	0.00	0.00
ATOM	3377	HG23	VAL	X	222	27.838	33.544	41.439	0.00	0.00
ATOM	3378	C	VAL	X	222	31.386	35.986	42.851	0.00	0.00
ATOM	3379	O	VAL	X	222	31.741	37.054	42.384	0.00	0.00
ATOM	3380	N	LEU	X	223	32.109	35.169	43.609	0.00	0.00
ATOM	3381	H	LEU	X	223	31.482	34.506	44.042	0.00	0.00
ATOM	3382	CA	LEU	X	223	33.482	35.309	44.041	0.00	0.00
ATOM	3383	HA	LEU	X	223	33.985	36.082	43.460	0.00	0.00
ATOM	3384	CB	LEU	X	223	33.524	35.671	45.507	0.00	0.00
ATOM	3385	HB2	LEU	X	223	32.832	35.069	46.095	0.00	0.00
ATOM	3386	HB3	LEU	X	223	34.577	35.645	45.785	0.00	0.00
ATOM	3387	CG	LEU	X	223	33.003	37.028	45.956	0.00	0.00
ATOM	3388	HG	LEU	X	223	33.177	37.692	45.109	0.00	0.00
ATOM	3389	CD1	LEU	X	223	31.526	37.138	46.300	0.00	0.00
ATOM	3390	HD11	LEU	X	223	31.041	36.274	45.846	0.00	0.00
ATOM	3391	HD12	LEU	X	223	31.106	38.045	45.864	0.00	0.00
ATOM	3392	HD13	LEU	X	223	31.277	37.097	47.360	0.00	0.00
ATOM	3393	CD2	LEU	X	223	33.761	37.534	47.139	0.00	0.00
ATOM	3394	HD21	LEU	X	223	33.780	36.715	47.857	0.00	0.00

ATOM	3395	HD22	LEU	X	223	34.730	37.796	46.715	0.00	0.00
ATOM	3396	HD23	LEU	X	223	33.296	38.369	47.663	0.00	0.00
ATOM	3397	C	LEU	X	223	34.280	33.998	43.822	0.00	0.00
ATOM	3398	O	LEU	X	223	33.954	32.952	44.411	0.00	0.00
ATOM	3399	N	GLN	X	224	35.114	34.011	42.770	0.00	0.00
ATOM	3400	H	GLN	X	224	35.363	34.825	42.225	0.00	0.00
ATOM	3401	CA	GLN	X	224	35.919	32.934	42.301	0.00	0.00
ATOM	3402	HA	GLN	X	224	35.738	31.994	42.823	0.00	0.00
ATOM	3403	CB	GLN	X	224	35.650	32.839	40.845	0.00	0.00
ATOM	3404	HB2	GLN	X	224	35.871	33.835	40.462	0.00	0.00
ATOM	3405	HB3	GLN	X	224	36.355	32.147	40.387	0.00	0.00
ATOM	3406	CG	GLN	X	224	34.240	32.487	40.555	0.00	0.00
ATOM	3407	HG2	GLN	X	224	34.075	31.586	41.146	0.00	0.00
ATOM	3408	HG3	GLN	X	224	33.516	33.273	40.770	0.00	0.00
ATOM	3409	CD	GLN	X	224	33.973	32.180	39.073	0.00	0.00
ATOM	3410	OE1	GLN	X	224	33.138	32.741	38.400	0.00	0.00
ATOM	3411	NE2	GLN	X	224	34.558	31.093	38.560	0.00	0.00
ATOM	3412	HE21	GLN	X	224	34.226	30.718	37.683	0.00	0.00
ATOM	3413	HE22	GLN	X	224	35.329	30.617	39.006	0.00	0.00
ATOM	3414	C	GLN	X	224	37.421	33.143	42.496	0.00	0.00
ATOM	3415	O	GLN	X	224	37.930	34.291	42.411	0.00	0.00
ATOM	3416	N	SER	X	225	38.133	32.098	42.878	0.00	0.00
ATOM	3417	H	SER	X	225	37.557	31.294	43.083	0.00	0.00
ATOM	3418	CA	SER	X	225	39.576	32.015	43.000	0.00	0.00
ATOM	3419	HA	SER	X	225	39.750	31.129	43.610	0.00	0.00
ATOM	3420	CB	SER	X	225	40.081	31.704	41.602	0.00	0.00
ATOM	3421	HB2	SER	X	225	39.367	31.027	41.134	0.00	0.00
ATOM	3422	HB3	SER	X	225	39.992	32.624	41.023	0.00	0.00
ATOM	3423	OG	SER	X	225	41.291	30.963	41.512	0.00	0.00
ATOM	3424	HG	SER	X	225	41.423	30.476	42.329	0.00	0.00
ATOM	3425	C	SER	X	225	40.198	33.192	43.770	0.00	0.00
ATOM	3426	O	SER	X	225	41.281	33.594	43.512	0.00	0.00
ATOM	3427	N	GLY	X	226	39.445	33.844	44.728	0.00	0.00
ATOM	3428	H	GLY	X	226	38.488	33.520	44.741	0.00	0.00
ATOM	3429	CA	GLY	X	226	39.848	35.044	45.528	0.00	0.00
ATOM	3430	HA2	GLY	X	226	40.664	34.810	46.212	0.00	0.00
ATOM	3431	HA3	GLY	X	226	40.208	35.814	44.845	0.00	0.00
ATOM	3432	C	GLY	X	226	38.779	35.627	46.512	0.00	0.00
ATOM	3433	O	GLY	X	226	37.632	35.187	46.477	0.00	0.00
ATOM	3434	N	ALA	X	227	39.100	36.575	47.363	0.00	0.00
ATOM	3435	H	ALA	X	227	40.073	36.841	47.408	0.00	0.00
ATOM	3436	CA	ALA	X	227	38.237	37.249	48.316	0.00	0.00
ATOM	3437	HA	ALA	X	227	37.189	37.242	48.018	0.00	0.00
ATOM	3438	CB	ALA	X	227	38.308	36.350	49.511	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.313	36.462	49.917	0.00	0.00
ATOM	3440	HB2	ALA	X	227	37.964	35.340	49.291	0.00	0.00
ATOM	3441	HB3	ALA	X	227	37.665	36.693	50.322	0.00	0.00
ATOM	3442	C	ALA	X	227	38.745	38.687	48.666	0.00	0.00
ATOM	3443	O	ALA	X	227	39.896	39.005	48.439	0.00	0.00
ATOM	3444	N	PRO	X	228	37.826	39.598	49.072	0.00	0.00
ATOM	3445	CD	PRO	X	228	36.427	39.250	49.439	0.00	0.00
ATOM	3446	HD2	PRO	X	228	36.306	38.365	50.063	0.00	0.00
ATOM	3447	HD3	PRO	X	228	35.905	39.244	48.482	0.00	0.00
ATOM	3448	CG	PRO	X	228	35.876	40.446	50.278	0.00	0.00
ATOM	3449	HG2	PRO	X	228	35.986	40.352	51.359	0.00	0.00
ATOM	3450	HG3	PRO	X	228	34.805	40.557	50.111	0.00	0.00
ATOM	3451	CB	PRO	X	228	36.812	41.650	49.849	0.00	0.00
ATOM	3452	HB2	PRO	X	228	36.879	42.451	50.585	0.00	0.00
ATOM	3453	HB3	PRO	X	228	36.514	42.046	48.878	0.00	0.00
ATOM	3454	CA	PRO	X	228	38.160	40.948	49.623	0.00	0.00
ATOM	3455	HA	PRO	X	228	38.697	41.517	48.864	0.00	0.00
ATOM	3456	C	PRO	X	228	38.923	40.889	50.996	0.00	0.00
ATOM	3457	O	PRO	X	228	39.803	41.655	51.311	0.00	0.00
ATOM	3458	N	ASN	X	229	38.655	39.849	51.774	0.00	0.00
ATOM	3459	H	ASN	X	229	38.018	39.131	51.461	0.00	0.00
ATOM	3460	CA	ASN	X	229	39.398	39.608	53.034	0.00	0.00
ATOM	3461	HA	ASN	X	229	39.734	40.530	53.508	0.00	0.00

ATOM	3462	CB	ASN	X	229	38.446	38.919	54.149	0.00	0.00
ATOM	3463	HB2	ASN	X	229	39.000	38.890	55.087	0.00	0.00
ATOM	3464	HB3	ASN	X	229	37.528	39.508	54.151	0.00	0.00
ATOM	3465	CG	ASN	X	229	37.972	37.560	53.718	0.00	0.00
ATOM	3466	OD1	ASN	X	229	37.582	37.360	52.586	0.00	0.00
ATOM	3467	ND2	ASN	X	229	37.974	36.643	54.606	0.00	0.00
ATOM	3468	HD21	ASN	X	229	37.693	35.702	54.369	0.00	0.00
ATOM	3469	HD22	ASN	X	229	38.384	36.877	55.499	0.00	0.00
ATOM	3470	C	ASN	X	229	40.623	38.760	52.792	0.00	0.00
ATOM	3471	O	ASN	X	229	41.228	38.278	53.765	0.00	0.00
ATOM	3472	N	GLY	X	230	40.959	38.504	51.520	0.00	0.00
ATOM	3473	H	GLY	X	230	40.411	38.936	50.790	0.00	0.00
ATOM	3474	CA	GLY	X	230	42.264	37.930	51.189	0.00	0.00
ATOM	3475	HA2	GLY	X	230	42.347	37.103	51.893	0.00	0.00
ATOM	3476	HA3	GLY	X	230	42.240	37.410	50.231	0.00	0.00
ATOM	3477	C	GLY	X	230	43.451	38.952	51.351	0.00	0.00
ATOM	3478	O	GLY	X	230	43.385	40.097	50.936	0.00	0.00
ATOM	3479	N	PRO	X	231	44.515	38.657	52.115	0.00	0.00
ATOM	3480	CD	PRO	X	231	44.731	37.337	52.702	0.00	0.00
ATOM	3481	HD2	PRO	X	231	44.720	36.587	51.911	0.00	0.00
ATOM	3482	HD3	PRO	X	231	43.919	37.200	53.416	0.00	0.00
ATOM	3483	CG	PRO	X	231	46.131	37.339	53.319	0.00	0.00
ATOM	3484	HG2	PRO	X	231	46.908	36.929	52.674	0.00	0.00
ATOM	3485	HG3	PRO	X	231	46.177	36.805	54.268	0.00	0.00
ATOM	3486	CB	PRO	X	231	46.442	38.848	53.453	0.00	0.00
ATOM	3487	HB2	PRO	X	231	47.436	39.122	53.101	0.00	0.00
ATOM	3488	HB3	PRO	X	231	46.285	39.196	54.474	0.00	0.00
ATOM	3489	CA	PRO	X	231	45.444	39.675	52.639	0.00	0.00
ATOM	3490	HA	PRO	X	231	44.767	40.309	53.212	0.00	0.00
ATOM	3491	C	PRO	X	231	46.038	40.618	51.616	0.00	0.00
ATOM	3492	O	PRO	X	231	46.200	41.817	51.941	0.00	0.00
ATOM	3493	N	TRP	X	232	46.298	40.141	50.345	0.00	0.00
ATOM	3494	H	TRP	X	232	46.035	39.168	50.288	0.00	0.00
ATOM	3495	CA	TRP	X	232	46.914	40.814	49.212	0.00	0.00
ATOM	3496	HA	TRP	X	232	47.779	41.411	49.501	0.00	0.00
ATOM	3497	CB	TRP	X	232	47.309	39.759	48.167	0.00	0.00
ATOM	3498	HB2	TRP	X	232	47.653	40.363	47.327	0.00	0.00
ATOM	3499	HB3	TRP	X	232	48.073	39.180	48.686	0.00	0.00
ATOM	3500	CG	TRP	X	232	46.172	38.896	47.854	0.00	0.00
ATOM	3501	CD1	TRP	X	232	45.765	37.779	48.442	0.00	0.00
ATOM	3502	HD1	TRP	X	232	46.390	37.308	49.186	0.00	0.00
ATOM	3503	NE1	TRP	X	232	44.551	37.289	47.900	0.00	0.00
ATOM	3504	HE1	TRP	X	232	44.009	36.543	48.312	0.00	0.00
ATOM	3505	CE2	TRP	X	232	44.125	38.127	46.864	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	42.957	38.178	46.092	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	42.198	37.412	46.149	0.00	0.00
ATOM	3508	CH2	TRP	X	232	42.810	39.240	45.195	0.00	0.00
ATOM	3509	HH2	TRP	X	232	41.832	39.417	44.774	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	43.835	40.191	44.975	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	43.702	40.899	44.170	0.00	0.00
ATOM	3512	CE3	TRP	X	232	45.005	40.091	45.761	0.00	0.00
ATOM	3513	HE3	TRP	X	232	45.756	40.868	45.743	0.00	0.00
ATOM	3514	CD2	TRP	X	232	45.172	39.068	46.736	0.00	0.00
ATOM	3515	C	TRP	X	232	45.947	41.776	48.573	0.00	0.00
ATOM	3516	O	TRP	X	232	46.349	42.607	47.737	0.00	0.00
ATOM	3517	N	ALA	X	233	44.648	41.758	48.961	0.00	0.00
ATOM	3518	H	ALA	X	233	44.347	41.089	49.655	0.00	0.00
ATOM	3519	CA	ALA	X	233	43.656	42.664	48.422	0.00	0.00
ATOM	3520	HA	ALA	X	233	43.966	42.976	47.425	0.00	0.00
ATOM	3521	CB	ALA	X	233	42.384	41.727	48.247	0.00	0.00
ATOM	3522	HB1	ALA	X	233	41.535	42.297	47.868	0.00	0.00
ATOM	3523	HB2	ALA	X	233	42.080	41.350	49.223	0.00	0.00
ATOM	3524	HB3	ALA	X	233	42.541	40.867	47.597	0.00	0.00
ATOM	3525	C	ALA	X	233	43.521	44.021	49.109	0.00	0.00
ATOM	3526	O	ALA	X	233	42.823	44.891	48.610	0.00	0.00
ATOM	3527	N	THR	X	234	44.218	44.178	50.157	0.00	0.00
ATOM	3528	H	THR	X	234	44.754	43.364	50.421	0.00	0.00

ATOM	3529	CA	THR	X	234	44.231	45.413	50.991	0.00	0.00
ATOM	3530	HA	THR	X	234	43.916	46.245	50.361	0.00	0.00
ATOM	3531	CB	THR	X	234	43.364	45.271	52.235	0.00	0.00
ATOM	3532	HB	THR	X	234	43.703	44.483	52.906	0.00	0.00
ATOM	3533	CG2	THR	X	234	43.283	46.531	53.055	0.00	0.00
ATOM	3534	HG21	THR	X	234	42.406	46.446	53.696	0.00	0.00
ATOM	3535	HG22	THR	X	234	43.123	47.412	52.433	0.00	0.00
ATOM	3536	HG23	THR	X	234	44.178	46.614	53.673	0.00	0.00
ATOM	3537	OG1	THR	X	234	41.998	44.995	51.794	0.00	0.00
ATOM	3538	HG1	THR	X	234	41.678	45.818	51.417	0.00	0.00
ATOM	3539	C	THR	X	234	45.605	45.781	51.442	0.00	0.00
ATOM	3540	O	THR	X	234	46.389	44.828	51.647	0.00	0.00
ATOM	3541	N	VAL	X	235	45.910	47.073	51.698	0.00	0.00
ATOM	3542	H	VAL	X	235	45.289	47.827	51.441	0.00	0.00
ATOM	3543	CA	VAL	X	235	47.219	47.519	52.187	0.00	0.00
ATOM	3544	HA	VAL	X	235	47.636	46.632	52.663	0.00	0.00
ATOM	3545	CB	VAL	X	235	48.216	47.792	50.962	0.00	0.00
ATOM	3546	HB	VAL	X	235	48.139	46.907	50.330	0.00	0.00
ATOM	3547	CG1	VAL	X	235	47.821	49.122	50.232	0.00	0.00
ATOM	3548	HG11	VAL	X	235	48.302	49.207	49.258	0.00	0.00
ATOM	3549	HG12	VAL	X	235	46.735	49.210	50.185	0.00	0.00
ATOM	3550	HG13	VAL	X	235	48.271	50.017	50.663	0.00	0.00
ATOM	3551	CG2	VAL	X	235	49.700	47.878	51.345	0.00	0.00
ATOM	3552	HG21	VAL	X	235	49.985	46.860	51.610	0.00	0.00
ATOM	3553	HG22	VAL	X	235	50.038	48.530	52.151	0.00	0.00
ATOM	3554	HG23	VAL	X	235	50.268	48.054	50.432	0.00	0.00
ATOM	3555	C	VAL	X	235	47.108	48.711	53.088	0.00	0.00
ATOM	3556	O	VAL	X	235	46.068	49.416	53.112	0.00	0.00
ATOM	3557	N	GLY	X	236	48.140	48.937	53.956	0.00	0.00
ATOM	3558	H	GLY	X	236	48.900	48.284	53.829	0.00	0.00
ATOM	3559	CA	GLY	X	236	48.276	50.074	54.799	0.00	0.00
ATOM	3560	HA2	GLY	X	236	47.237	50.301	55.037	0.00	0.00
ATOM	3561	HA3	GLY	X	236	48.901	49.783	55.643	0.00	0.00
ATOM	3562	C	GLY	X	236	48.854	51.389	54.202	0.00	0.00
ATOM	3563	O	GLY	X	236	49.575	51.457	53.241	0.00	0.00
ATOM	3564	N	MET	X	237	48.531	52.466	54.908	0.00	0.00
ATOM	3565	H	MET	X	237	47.818	52.326	55.610	0.00	0.00
ATOM	3566	CA	MET	X	237	49.048	53.866	54.625	0.00	0.00
ATOM	3567	HA	MET	X	237	48.564	54.189	53.703	0.00	0.00
ATOM	3568	CB	MET	X	237	48.586	54.796	55.766	0.00	0.00
ATOM	3569	HB2	MET	X	237	49.008	54.481	56.720	0.00	0.00
ATOM	3570	HB3	MET	X	237	49.052	55.778	55.684	0.00	0.00
ATOM	3571	CG	MET	X	237	47.123	55.090	55.739	0.00	0.00
ATOM	3572	HG2	MET	X	237	46.838	55.699	54.881	0.00	0.00
ATOM	3573	HG3	MET	X	237	46.608	54.134	55.654	0.00	0.00
ATOM	3574	SD	MET	X	237	46.523	55.983	57.140	0.00	0.00
ATOM	3575	CE	MET	X	237	44.829	55.491	57.049	0.00	0.00
ATOM	3576	HE1	MET	X	237	44.791	54.407	56.937	0.00	0.00
ATOM	3577	HE2	MET	X	237	44.287	55.846	57.925	0.00	0.00
ATOM	3578	HE3	MET	X	237	44.343	55.911	56.169	0.00	0.00
ATOM	3579	C	MET	X	237	50.530	53.962	54.486	0.00	0.00
ATOM	3580	O	MET	X	237	51.038	54.559	53.532	0.00	0.00
ATOM	3581	N	GLY	X	238	51.248	53.441	55.470	0.00	0.00
ATOM	3582	H	GLY	X	238	50.811	52.911	56.210	0.00	0.00
ATOM	3583	CA	GLY	X	238	52.736	53.650	55.583	0.00	0.00
ATOM	3584	HA2	GLY	X	238	52.948	54.716	55.502	0.00	0.00
ATOM	3585	HA3	GLY	X	238	53.122	53.172	56.483	0.00	0.00
ATOM	3586	C	GLY	X	238	53.515	52.975	54.452	0.00	0.00
ATOM	3587	O	GLY	X	238	54.438	53.620	53.971	0.00	0.00
ATOM	3588	N	GLU	X	239	53.100	51.870	53.946	0.00	0.00
ATOM	3589	H	GLU	X	239	52.414	51.398	54.516	0.00	0.00
ATOM	3590	CA	GLU	X	239	53.591	51.189	52.721	0.00	0.00
ATOM	3591	HA	GLU	X	239	54.679	51.148	52.754	0.00	0.00
ATOM	3592	CB	GLU	X	239	52.941	49.769	52.604	0.00	0.00
ATOM	3593	HB2	GLU	X	239	52.033	49.698	53.202	0.00	0.00
ATOM	3594	HB3	GLU	X	239	52.821	49.642	51.528	0.00	0.00
ATOM	3595	CG	GLU	X	239	53.996	48.730	53.161	0.00	0.00

ATOM	3596	HG2	GLU	X	239	54.201	48.895	54.218	0.00	0.00
ATOM	3597	HG3	GLU	X	239	53.589	47.722	53.087	0.00	0.00
ATOM	3598	CD	GLU	X	239	55.345	48.773	52.443	0.00	0.00
ATOM	3599	OE1	GLU	X	239	55.405	48.278	51.288	0.00	0.00
ATOM	3600	OE2	GLU	X	239	56.360	49.042	53.057	0.00	0.00
ATOM	3601	C	GLU	X	239	53.239	52.114	51.534	0.00	0.00
ATOM	3602	O	GLU	X	239	54.126	52.343	50.705	0.00	0.00
ATOM	3603	N	ALA	X	240	52.020	52.505	51.370	0.00	0.00
ATOM	3604	H	ALA	X	240	51.405	52.183	52.103	0.00	0.00
ATOM	3605	CA	ALA	X	240	51.484	53.250	50.232	0.00	0.00
ATOM	3606	HA	ALA	X	240	51.588	52.629	49.343	0.00	0.00
ATOM	3607	CB	ALA	X	240	49.920	53.448	50.325	0.00	0.00
ATOM	3608	HB1	ALA	X	240	49.371	52.597	50.727	0.00	0.00
ATOM	3609	HB2	ALA	X	240	49.511	53.766	49.367	0.00	0.00
ATOM	3610	HB3	ALA	X	240	49.720	54.272	51.011	0.00	0.00
ATOM	3611	C	ALA	X	240	52.344	54.577	50.032	0.00	0.00
ATOM	3612	O	ALA	X	240	52.814	54.855	48.911	0.00	0.00
ATOM	3613	N	ARG	X	241	52.663	55.266	51.169	0.00	0.00
ATOM	3614	H	ARG	X	241	52.211	54.856	51.974	0.00	0.00
ATOM	3615	CA	ARG	X	241	53.364	56.559	51.054	0.00	0.00
ATOM	3616	HA	ARG	X	241	52.905	57.116	50.237	0.00	0.00
ATOM	3617	CB	ARG	X	241	53.319	57.190	52.530	0.00	0.00
ATOM	3618	HB2	ARG	X	241	52.364	57.117	53.051	0.00	0.00
ATOM	3619	HB3	ARG	X	241	54.124	56.839	53.176	0.00	0.00
ATOM	3620	CG	ARG	X	241	53.466	58.725	52.346	0.00	0.00
ATOM	3621	HG2	ARG	X	241	54.498	58.921	52.054	0.00	0.00
ATOM	3622	HG3	ARG	X	241	52.824	59.104	51.551	0.00	0.00
ATOM	3623	CD	ARG	X	241	53.179	59.449	53.716	0.00	0.00
ATOM	3624	HD2	ARG	X	241	52.122	59.378	53.972	0.00	0.00
ATOM	3625	HD3	ARG	X	241	53.710	58.967	54.537	0.00	0.00
ATOM	3626	NE	ARG	X	241	53.523	60.872	53.767	0.00	0.00
ATOM	3627	HE	ARG	X	241	52.744	61.480	53.555	0.00	0.00
ATOM	3628	CZ	ARG	X	241	54.697	61.470	53.849	0.00	0.00
ATOM	3629	NH1	ARG	X	241	55.783	60.747	53.986	0.00	0.00
ATOM	3630	HH11	ARG	X	241	55.709	59.759	54.181	0.00	0.00
ATOM	3631	HH12	ARG	X	241	56.707	61.129	54.131	0.00	0.00
ATOM	3632	NH2	ARG	X	241	54.803	62.775	53.753	0.00	0.00
ATOM	3633	HH21	ARG	X	241	54.081	63.420	53.467	0.00	0.00
ATOM	3634	HH22	ARG	X	241	55.703	63.212	53.894	0.00	0.00
ATOM	3635	C	ARG	X	241	54.848	56.416	50.708	0.00	0.00
ATOM	3636	O	ARG	X	241	55.419	57.172	49.875	0.00	0.00
ATOM	3637	N	ARG	X	242	55.524	55.334	51.303	0.00	0.00
ATOM	3638	H	ARG	X	242	55.092	54.810	52.051	0.00	0.00
ATOM	3639	CA	ARG	X	242	56.845	54.780	50.834	0.00	0.00
ATOM	3640	HA	ARG	X	242	57.534	55.577	51.113	0.00	0.00
ATOM	3641	CB	ARG	X	242	57.276	53.578	51.623	0.00	0.00
ATOM	3642	HB2	ARG	X	242	57.274	53.861	52.676	0.00	0.00
ATOM	3643	HB3	ARG	X	242	56.570	52.763	51.460	0.00	0.00
ATOM	3644	CG	ARG	X	242	58.686	53.095	51.377	0.00	0.00
ATOM	3645	HG2	ARG	X	242	58.629	52.724	50.354	0.00	0.00
ATOM	3646	HG3	ARG	X	242	59.410	53.909	51.393	0.00	0.00
ATOM	3647	CD	ARG	X	242	59.192	51.828	52.134	0.00	0.00
ATOM	3648	HD2	ARG	X	242	60.237	51.612	51.911	0.00	0.00
ATOM	3649	HD3	ARG	X	242	59.090	51.925	53.215	0.00	0.00
ATOM	3650	NE	ARG	X	242	58.338	50.696	51.710	0.00	0.00
ATOM	3651	HE	ARG	X	242	57.716	50.412	52.454	0.00	0.00
ATOM	3652	CZ	ARG	X	242	58.455	49.978	50.570	0.00	0.00
ATOM	3653	NH1	ARG	X	242	59.170	50.405	49.567	0.00	0.00
ATOM	3654	HH11	ARG	X	242	59.660	51.288	49.527	0.00	0.00
ATOM	3655	HH12	ARG	X	242	59.379	49.725	48.850	0.00	0.00
ATOM	3656	NH2	ARG	X	242	57.820	48.840	50.341	0.00	0.00
ATOM	3657	HH21	ARG	X	242	57.031	48.673	50.949	0.00	0.00
ATOM	3658	HH22	ARG	X	242	57.928	48.347	49.467	0.00	0.00
ATOM	3659	C	ARG	X	242	56.828	54.458	49.282	0.00	0.00
ATOM	3660	O	ARG	X	242	57.600	55.089	48.575	0.00	0.00
ATOM	3661	N	ARG	X	243	55.915	53.640	48.826	0.00	0.00
ATOM	3662	H	ARG	X	243	55.261	53.304	49.519	0.00	0.00

ATOM	3663	CA	ARG	X	243	55.827	53.259	47.380	0.00	0.00
ATOM	3664	HA	ARG	X	243	56.756	52.751	47.121	0.00	0.00
ATOM	3665	CB	ARG	X	243	54.687	52.205	47.250	0.00	0.00
ATOM	3666	HB2	ARG	X	243	53.807	52.683	47.680	0.00	0.00
ATOM	3667	HB3	ARG	X	243	54.448	52.029	46.202	0.00	0.00
ATOM	3668	CG	ARG	X	243	55.027	50.866	47.929	0.00	0.00
ATOM	3669	HG2	ARG	X	243	55.802	50.356	47.357	0.00	0.00
ATOM	3670	HG3	ARG	X	243	55.330	51.050	48.959	0.00	0.00
ATOM	3671	CD	ARG	X	243	53.734	50.002	47.980	0.00	0.00
ATOM	3672	HD2	ARG	X	243	52.969	50.553	48.527	0.00	0.00
ATOM	3673	HD3	ARG	X	243	53.456	49.712	46.967	0.00	0.00
ATOM	3674	NE	ARG	X	243	54.056	48.863	48.823	0.00	0.00
ATOM	3675	HE	ARG	X	243	54.654	48.991	49.628	0.00	0.00
ATOM	3676	CZ	ARG	X	243	53.477	47.682	48.620	0.00	0.00
ATOM	3677	NH1	ARG	X	243	52.672	47.384	47.695	0.00	0.00
ATOM	3678	HH11	ARG	X	243	52.417	47.974	46.916	0.00	0.00
ATOM	3679	HH12	ARG	X	243	52.251	46.466	47.676	0.00	0.00
ATOM	3680	NH2	ARG	X	243	53.788	46.774	49.557	0.00	0.00
ATOM	3681	HH21	ARG	X	243	54.462	47.120	50.225	0.00	0.00
ATOM	3682	HH22	ARG	X	243	53.348	45.865	49.575	0.00	0.00
ATOM	3683	C	ARG	X	243	55.675	54.464	46.529	0.00	0.00
ATOM	3684	O	ARG	X	243	56.586	54.737	45.687	0.00	0.00
ATOM	3685	N	ALA	X	244	54.585	55.123	46.671	0.00	0.00
ATOM	3686	H	ALA	X	244	53.848	54.801	47.281	0.00	0.00
ATOM	3687	CA	ALA	X	244	54.350	56.314	45.884	0.00	0.00
ATOM	3688	HA	ALA	X	244	54.215	55.988	44.853	0.00	0.00
ATOM	3689	CB	ALA	X	244	53.059	56.862	46.411	0.00	0.00
ATOM	3690	HB1	ALA	X	244	52.297	56.082	46.412	0.00	0.00
ATOM	3691	HB2	ALA	X	244	52.764	57.747	45.847	0.00	0.00
ATOM	3692	HB3	ALA	X	244	53.197	57.321	47.390	0.00	0.00
ATOM	3693	C	ALA	X	244	55.532	57.350	45.783	0.00	0.00
ATOM	3694	O	ALA	X	244	55.876	57.893	44.752	0.00	0.00
ATOM	3695	N	THR	X	245	56.134	57.650	46.976	0.00	0.00
ATOM	3696	H	THR	X	245	55.870	57.171	47.826	0.00	0.00
ATOM	3697	CA	THR	X	245	57.382	58.557	47.077	0.00	0.00
ATOM	3698	HA	THR	X	245	57.088	59.426	46.489	0.00	0.00
ATOM	3699	CB	THR	X	245	57.708	58.992	48.529	0.00	0.00
ATOM	3700	HB	THR	X	245	58.039	58.099	49.059	0.00	0.00
ATOM	3701	CG2	THR	X	245	58.756	60.071	48.573	0.00	0.00
ATOM	3702	HG21	THR	X	245	59.658	59.538	48.272	0.00	0.00
ATOM	3703	HG22	THR	X	245	58.936	60.493	49.562	0.00	0.00
ATOM	3704	HG23	THR	X	245	58.452	60.957	48.016	0.00	0.00
ATOM	3705	OG1	THR	X	245	56.523	59.443	49.124	0.00	0.00
ATOM	3706	HG1	THR	X	245	56.095	58.610	49.331	0.00	0.00
ATOM	3707	C	THR	X	245	58.585	57.983	46.325	0.00	0.00
ATOM	3708	O	THR	X	245	59.224	58.774	45.580	0.00	0.00
ATOM	3709	N	GLN	X	246	59.002	56.763	46.533	0.00	0.00
ATOM	3710	H	GLN	X	246	58.484	56.300	47.266	0.00	0.00
ATOM	3711	CA	GLN	X	246	60.079	56.091	45.748	0.00	0.00
ATOM	3712	HA	GLN	X	246	60.936	56.750	45.888	0.00	0.00
ATOM	3713	CB	GLN	X	246	60.356	54.660	46.327	0.00	0.00
ATOM	3714	HB2	GLN	X	246	59.403	54.152	46.480	0.00	0.00
ATOM	3715	HB3	GLN	X	246	61.015	54.179	45.604	0.00	0.00
ATOM	3716	CG	GLN	X	246	61.083	54.685	47.660	0.00	0.00
ATOM	3717	HG2	GLN	X	246	61.986	55.294	47.614	0.00	0.00
ATOM	3718	HG3	GLN	X	246	60.436	55.183	48.382	0.00	0.00
ATOM	3719	CD	GLN	X	246	61.453	53.270	48.075	0.00	0.00
ATOM	3720	OE1	GLN	X	246	60.826	52.675	48.990	0.00	0.00
ATOM	3721	NE2	GLN	X	246	62.427	52.606	47.518	0.00	0.00
ATOM	3722	HE21	GLN	X	246	62.683	51.665	47.779	0.00	0.00
ATOM	3723	HE22	GLN	X	246	63.052	53.162	46.953	0.00	0.00
ATOM	3724	C	GLN	X	246	59.766	56.010	44.243	0.00	0.00
ATOM	3725	O	GLN	X	246	60.561	56.367	43.416	0.00	0.00
ATOM	3726	N	LEU	X	247	58.535	55.630	43.864	0.00	0.00
ATOM	3727	H	LEU	X	247	57.859	55.325	44.550	0.00	0.00
ATOM	3728	CA	LEU	X	247	58.033	55.770	42.455	0.00	0.00
ATOM	3729	HA	LEU	X	247	58.591	55.149	41.753	0.00	0.00

ATOM	3730	CB	LEU	X	247	56.615	55.298	42.584	0.00	0.00
ATOM	3731	HB2	LEU	X	247	56.610	54.295	43.012	0.00	0.00
ATOM	3732	HB3	LEU	X	247	56.036	55.929	43.259	0.00	0.00
ATOM	3733	CG	LEU	X	247	55.892	55.230	41.266	0.00	0.00
ATOM	3734	HG	LEU	X	247	55.798	56.192	40.761	0.00	0.00
ATOM	3735	CD1	LEU	X	247	56.569	54.250	40.261	0.00	0.00
ATOM	3736	HD11	LEU	X	247	57.561	54.636	40.027	0.00	0.00
ATOM	3737	HD12	LEU	X	247	55.953	54.199	39.363	0.00	0.00
ATOM	3738	HD13	LEU	X	247	56.754	53.269	40.698	0.00	0.00
ATOM	3739	CD2	LEU	X	247	54.530	54.557	41.441	0.00	0.00
ATOM	3740	HD21	LEU	X	247	54.091	54.913	42.372	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.937	54.728	40.543	0.00	0.00
ATOM	3742	HD23	LEU	X	247	54.664	53.489	41.615	0.00	0.00
ATOM	3743	C	LEU	X	247	58.140	57.230	41.838	0.00	0.00
ATOM	3744	O	LEU	X	247	58.686	57.414	40.762	0.00	0.00
ATOM	3745	N	ALA	X	248	57.705	58.321	42.514	0.00	0.00
ATOM	3746	H	ALA	X	248	57.446	58.145	43.474	0.00	0.00
ATOM	3747	CA	ALA	X	248	57.825	59.719	42.083	0.00	0.00
ATOM	3748	HA	ALA	X	248	57.441	59.789	41.066	0.00	0.00
ATOM	3749	CB	ALA	X	248	56.953	60.488	43.049	0.00	0.00
ATOM	3750	HB1	ALA	X	248	57.383	60.402	44.046	0.00	0.00
ATOM	3751	HB2	ALA	X	248	55.930	60.112	43.018	0.00	0.00
ATOM	3752	HB3	ALA	X	248	56.921	61.537	42.752	0.00	0.00
ATOM	3753	C	ALA	X	248	59.358	60.043	42.032	0.00	0.00
ATOM	3754	O	ALA	X	248	59.857	60.583	41.072	0.00	0.00
ATOM	3755	N	HIE	X	249	60.097	59.711	43.072	0.00	0.00
ATOM	3756	H	HIE	X	249	59.619	59.259	43.839	0.00	0.00
ATOM	3757	CA	HIE	X	249	61.583	59.880	43.156	0.00	0.00
ATOM	3758	HA	HIE	X	249	61.904	60.919	43.228	0.00	0.00
ATOM	3759	CB	HIE	X	249	62.108	59.227	44.505	0.00	0.00
ATOM	3760	HB2	HIE	X	249	61.869	59.898	45.330	0.00	0.00
ATOM	3761	HB3	HIE	X	249	61.568	58.293	44.661	0.00	0.00
ATOM	3762	CG	HIE	X	249	63.608	58.915	44.622	0.00	0.00
ATOM	3763	ND1	HIE	X	249	64.060	57.633	44.608	0.00	0.00
ATOM	3764	CE1	HIE	X	249	65.440	57.626	44.527	0.00	0.00
ATOM	3765	HE1	HIE	X	249	66.104	56.775	44.568	0.00	0.00
ATOM	3766	NE2	HIE	X	249	65.818	58.936	44.534	0.00	0.00
ATOM	3767	HE2	HIE	X	249	66.789	59.197	44.624	0.00	0.00
ATOM	3768	CD2	HIE	X	249	64.688	59.763	44.559	0.00	0.00
ATOM	3769	HD2	HIE	X	249	64.646	60.833	44.419	0.00	0.00
ATOM	3770	C	HIE	X	249	62.257	59.291	41.930	0.00	0.00
ATOM	3771	O	HIE	X	249	63.082	59.964	41.338	0.00	0.00
ATOM	3772	N	LEU	X	250	61.925	58.111	41.389	0.00	0.00
ATOM	3773	H	LEU	X	250	61.173	57.628	41.859	0.00	0.00
ATOM	3774	CA	LEU	X	250	62.536	57.486	40.238	0.00	0.00
ATOM	3775	HA	LEU	X	250	63.601	57.685	40.121	0.00	0.00
ATOM	3776	CB	LEU	X	250	62.320	55.970	40.368	0.00	0.00
ATOM	3777	HB2	LEU	X	250	61.274	55.667	40.415	0.00	0.00
ATOM	3778	HB3	LEU	X	250	62.898	55.611	39.516	0.00	0.00
ATOM	3779	CG	LEU	X	250	63.072	55.416	41.616	0.00	0.00
ATOM	3780	HG	LEU	X	250	62.947	56.020	42.514	0.00	0.00
ATOM	3781	CD1	LEU	X	250	62.544	54.049	41.989	0.00	0.00
ATOM	3782	HD11	LEU	X	250	61.497	54.136	42.280	0.00	0.00
ATOM	3783	HD12	LEU	X	250	63.078	53.618	42.837	0.00	0.00
ATOM	3784	HD13	LEU	X	250	62.616	53.405	41.113	0.00	0.00
ATOM	3785	CD2	LEU	X	250	64.567	55.359	41.406	0.00	0.00
ATOM	3786	HD21	LEU	X	250	65.061	56.256	41.033	0.00	0.00
ATOM	3787	HD22	LEU	X	250	65.047	55.186	42.370	0.00	0.00
ATOM	3788	HD23	LEU	X	250	64.878	54.549	40.747	0.00	0.00
ATOM	3789	C	LEU	X	250	61.902	57.986	38.944	0.00	0.00
ATOM	3790	O	LEU	X	250	62.661	58.099	38.019	0.00	0.00
ATOM	3791	N	VAL	X	251	60.632	58.436	38.884	0.00	0.00
ATOM	3792	H	VAL	X	251	60.043	58.226	39.677	0.00	0.00
ATOM	3793	CA	VAL	X	251	60.003	59.153	37.749	0.00	0.00
ATOM	3794	HA	VAL	X	251	60.254	58.722	36.780	0.00	0.00
ATOM	3795	CB	VAL	X	251	58.479	59.325	37.966	0.00	0.00
ATOM	3796	HB	VAL	X	251	58.420	59.685	38.993	0.00	0.00

ATOM	3797	CG1	VAL	X	251	57.781	60.322	37.019	0.00	0.00
ATOM	3798	HG11	VAL	X	251	58.031	60.144	35.973	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.713	60.344	37.237	0.00	0.00
ATOM	3800	HG13	VAL	X	251	58.122	61.346	37.166	0.00	0.00
ATOM	3801	CG2	VAL	X	251	57.596	58.075	37.786	0.00	0.00
ATOM	3802	HG21	VAL	X	251	57.894	57.147	38.273	0.00	0.00
ATOM	3803	HG22	VAL	X	251	57.371	57.851	36.744	0.00	0.00
ATOM	3804	HG23	VAL	X	251	56.565	58.234	38.103	0.00	0.00
ATOM	3805	C	VAL	X	251	60.748	60.495	37.562	0.00	0.00
ATOM	3806	O	VAL	X	251	61.006	60.959	36.481	0.00	0.00
ATOM	3807	N	GLY	X	252	61.068	61.146	38.694	0.00	0.00
ATOM	3808	H	GLY	X	252	60.895	60.596	39.523	0.00	0.00
ATOM	3809	CA	GLY	X	252	61.702	62.458	38.829	0.00	0.00
ATOM	3810	HA2	GLY	X	252	62.554	62.350	39.500	0.00	0.00
ATOM	3811	HA3	GLY	X	252	61.989	62.926	37.888	0.00	0.00
ATOM	3812	C	GLY	X	252	60.831	63.589	39.331	0.00	0.00
ATOM	3813	O	GLY	X	252	60.951	64.748	38.965	0.00	0.00
ATOM	3814	N	CYX	X	253	59.995	63.296	40.333	0.00	0.00
ATOM	3815	H	CYX	X	253	59.930	62.355	40.694	0.00	0.00
ATOM	3816	CA	CYX	X	253	59.070	64.243	40.866	0.00	0.00
ATOM	3817	HA	CYX	X	253	59.147	65.120	40.224	0.00	0.00
ATOM	3818	CB	CYX	X	253	57.629	63.714	40.749	0.00	0.00
ATOM	3819	HB2	CYX	X	253	57.436	62.738	41.195	0.00	0.00
ATOM	3820	HB3	CYX	X	253	56.957	64.458	41.179	0.00	0.00
ATOM	3821	SG	CYX	X	253	57.069	63.383	38.988	0.00	0.00
ATOM	3822	C	CYX	X	253	59.486	64.480	42.294	0.00	0.00
ATOM	3823	O	CYX	X	253	59.978	63.550	42.859	0.00	0.00
ATOM	3824	N	PRO	X	254	59.309	65.671	42.935	0.00	0.00
ATOM	3825	CD	PRO	X	254	59.192	65.977	44.343	0.00	0.00
ATOM	3826	HD2	PRO	X	254	60.191	66.102	44.761	0.00	0.00
ATOM	3827	HD3	PRO	X	254	58.760	65.104	44.832	0.00	0.00
ATOM	3828	CG	PRO	X	254	58.496	67.296	44.473	0.00	0.00
ATOM	3829	HG2	PRO	X	254	58.872	67.797	45.365	0.00	0.00
ATOM	3830	HG3	PRO	X	254	57.419	67.176	44.596	0.00	0.00
ATOM	3831	CB	PRO	X	254	59.029	68.043	43.283	0.00	0.00
ATOM	3832	HB2	PRO	X	254	60.046	68.360	43.511	0.00	0.00
ATOM	3833	HB3	PRO	X	254	58.311	68.827	43.044	0.00	0.00
ATOM	3834	CA	PRO	X	254	59.162	66.932	42.176	0.00	0.00
ATOM	3835	HA	PRO	X	254	58.280	66.845	41.542	0.00	0.00
ATOM	3836	C	PRO	X	254	60.373	67.316	41.335	0.00	0.00
ATOM	3837	O	PRO	X	254	61.460	66.694	41.521	0.00	0.00
ATOM	3838	N	PRO	X	255	60.235	68.232	40.342	0.00	0.00
ATOM	3839	CD	PRO	X	255	58.993	68.662	39.768	0.00	0.00
ATOM	3840	HD2	PRO	X	255	58.573	69.471	40.365	0.00	0.00
ATOM	3841	HD3	PRO	X	255	58.312	67.813	39.718	0.00	0.00
ATOM	3842	CG	PRO	X	255	59.359	69.004	38.271	0.00	0.00
ATOM	3843	HG2	PRO	X	255	58.654	69.681	37.787	0.00	0.00
ATOM	3844	HG3	PRO	X	255	59.328	68.096	37.669	0.00	0.00
ATOM	3845	CB	PRO	X	255	60.762	69.569	38.464	0.00	0.00
ATOM	3846	HB2	PRO	X	255	60.690	70.553	38.929	0.00	0.00
ATOM	3847	HB3	PRO	X	255	61.254	69.615	37.493	0.00	0.00
ATOM	3848	CA	PRO	X	255	61.351	68.527	39.364	0.00	0.00
ATOM	3849	HA	PRO	X	255	61.503	67.557	38.891	0.00	0.00
ATOM	3850	C	PRO	X	255	62.590	68.943	40.045	0.00	0.00
ATOM	3851	O	PRO	X	255	62.691	69.837	40.878	0.00	0.00
ATOM	3852	N	GLY	X	256	63.714	68.335	39.529	0.00	0.00
ATOM	3853	H	GLY	X	256	63.500	67.526	38.963	0.00	0.00
ATOM	3854	CA	GLY	X	256	65.124	68.626	39.818	0.00	0.00
ATOM	3855	HA2	GLY	X	256	65.766	67.868	39.370	0.00	0.00
ATOM	3856	HA3	GLY	X	256	65.253	69.593	39.332	0.00	0.00
ATOM	3857	C	GLY	X	256	65.457	68.714	41.345	0.00	0.00
ATOM	3858	O	GLY	X	256	66.512	69.276	41.635	0.00	0.00
ATOM	3859	N	GLY	X	257	64.619	68.001	42.119	0.00	0.00
ATOM	3860	H	GLY	X	257	63.767	67.617	41.735	0.00	0.00
ATOM	3861	CA	GLY	X	257	64.885	68.057	43.530	0.00	0.00
ATOM	3862	HA2	GLY	X	257	65.953	67.923	43.708	0.00	0.00
ATOM	3863	HA3	GLY	X	257	64.677	69.074	43.862	0.00	0.00

ATOM	3864	C	GLY	X	257	64.240	66.958	44.410	0.00	0.00
ATOM	3865	O	GLY	X	257	63.637	66.004	43.923	0.00	0.00
ATOM	3866	N	THR	X	258	64.368	67.088	45.727	0.00	0.00
ATOM	3867	H	THR	X	258	64.821	67.874	46.170	0.00	0.00
ATOM	3868	CA	THR	X	258	63.901	66.093	46.627	0.00	0.00
ATOM	3869	HA	THR	X	258	63.985	65.149	46.088	0.00	0.00
ATOM	3870	CB	THR	X	258	64.873	66.008	47.797	0.00	0.00
ATOM	3871	HB	THR	X	258	64.535	65.259	48.514	0.00	0.00
ATOM	3872	CG2	THR	X	258	66.271	65.701	47.400	0.00	0.00
ATOM	3873	HG21	THR	X	258	66.149	65.060	46.527	0.00	0.00
ATOM	3874	HG22	THR	X	258	66.784	65.152	48.189	0.00	0.00
ATOM	3875	HG23	THR	X	258	66.933	66.544	47.201	0.00	0.00
ATOM	3876	OG1	THR	X	258	64.910	67.317	48.420	0.00	0.00
ATOM	3877	HG1	THR	X	258	64.362	67.252	49.206	0.00	0.00
ATOM	3878	C	THR	X	258	62.492	66.211	47.212	0.00	0.00
ATOM	3879	O	THR	X	258	61.936	65.158	47.344	0.00	0.00
ATOM	3880	N	GLY	X	259	61.983	67.417	47.336	0.00	0.00
ATOM	3881	H	GLY	X	259	62.463	68.295	47.196	0.00	0.00
ATOM	3882	CA	GLY	X	259	60.525	67.557	47.504	0.00	0.00
ATOM	3883	HA2	GLY	X	259	60.242	68.457	46.958	0.00	0.00
ATOM	3884	HA3	GLY	X	259	59.921	66.762	47.067	0.00	0.00
ATOM	3885	C	GLY	X	259	60.239	67.622	48.967	0.00	0.00
ATOM	3886	O	GLY	X	259	60.642	66.730	49.697	0.00	0.00
ATOM	3887	N	GLY	X	260	59.660	68.723	49.376	0.00	0.00
ATOM	3888	H	GLY	X	260	59.376	69.396	48.679	0.00	0.00
ATOM	3889	CA	GLY	X	260	59.143	69.033	50.710	0.00	0.00
ATOM	3890	HA2	GLY	X	260	59.355	68.287	51.476	0.00	0.00
ATOM	3891	HA3	GLY	X	260	59.563	70.023	50.888	0.00	0.00
ATOM	3892	C	GLY	X	260	57.638	69.242	50.656	0.00	0.00
ATOM	3893	O	GLY	X	260	57.200	69.955	51.568	0.00	0.00
ATOM	3894	N	ASN	X	261	56.866	68.761	49.695	0.00	0.00
ATOM	3895	H	ASN	X	261	57.387	68.235	49.008	0.00	0.00
ATOM	3896	CA	ASN	X	261	55.367	68.999	49.617	0.00	0.00
ATOM	3897	HA	ASN	X	261	54.935	68.971	50.617	0.00	0.00
ATOM	3898	CB	ASN	X	261	55.102	70.449	49.092	0.00	0.00
ATOM	3899	HB2	ASN	X	261	55.393	71.227	49.798	0.00	0.00
ATOM	3900	HB3	ASN	X	261	55.642	70.678	48.174	0.00	0.00
ATOM	3901	CG	ASN	X	261	53.617	70.587	48.716	0.00	0.00
ATOM	3902	OD1	ASN	X	261	53.270	70.686	47.534	0.00	0.00
ATOM	3903	ND2	ASN	X	261	52.641	70.656	49.565	0.00	0.00
ATOM	3904	HD21	ASN	X	261	51.688	70.704	49.232	0.00	0.00
ATOM	3905	HD22	ASN	X	261	52.835	70.844	50.539	0.00	0.00
ATOM	3906	C	ASN	X	261	54.616	67.926	48.632	0.00	0.00
ATOM	3907	O	ASN	X	261	55.136	67.648	47.550	0.00	0.00
ATOM	3908	N	ASP	X	262	53.402	67.433	49.036	0.00	0.00
ATOM	3909	H	ASP	X	262	52.987	67.823	49.870	0.00	0.00
ATOM	3910	CA	ASP	X	262	52.557	66.445	48.285	0.00	0.00
ATOM	3911	HA	ASP	X	262	52.985	65.443	48.325	0.00	0.00
ATOM	3912	CB	ASP	X	262	51.232	66.288	49.095	0.00	0.00
ATOM	3913	HB2	ASP	X	262	50.664	67.214	49.179	0.00	0.00
ATOM	3914	HB3	ASP	X	262	50.624	65.520	48.617	0.00	0.00
ATOM	3915	CG	ASP	X	262	51.469	65.736	50.475	0.00	0.00
ATOM	3916	OD1	ASP	X	262	51.259	66.486	51.454	0.00	0.00
ATOM	3917	OD2	ASP	X	262	51.964	64.570	50.613	0.00	0.00
ATOM	3918	C	ASP	X	262	52.105	66.886	46.872	0.00	0.00
ATOM	3919	O	ASP	X	262	52.352	66.186	45.867	0.00	0.00
ATOM	3920	N	THR	X	263	51.522	68.097	46.747	0.00	0.00
ATOM	3921	H	THR	X	263	51.401	68.548	47.643	0.00	0.00
ATOM	3922	CA	THR	X	263	51.112	68.802	45.493	0.00	0.00
ATOM	3923	HA	THR	X	263	50.354	68.180	45.017	0.00	0.00
ATOM	3924	CB	THR	X	263	50.364	70.095	45.837	0.00	0.00
ATOM	3925	HB	THR	X	263	50.942	70.680	46.553	0.00	0.00
ATOM	3926	CG2	THR	X	263	49.931	70.997	44.707	0.00	0.00
ATOM	3927	HG21	THR	X	263	49.424	71.906	45.031	0.00	0.00
ATOM	3928	HG22	THR	X	263	49.444	70.384	43.949	0.00	0.00
ATOM	3929	HG23	THR	X	263	50.831	71.279	44.161	0.00	0.00
ATOM	3930	OG1	THR	X	263	49.034	69.828	46.296	0.00	0.00

ATOM	3931	HG1	THR	X	263	49.161	69.312	47.096	0.00	0.00
ATOM	3932	C	THR	X	263	52.316	68.962	44.521	0.00	0.00
ATOM	3933	O	THR	X	263	52.129	68.695	43.381	0.00	0.00
ATOM	3934	N	GLU	X	264	53.499	69.398	45.023	0.00	0.00
ATOM	3935	H	GLU	X	264	53.541	69.656	45.999	0.00	0.00
ATOM	3936	CA	GLU	X	264	54.658	69.438	44.130	0.00	0.00
ATOM	3937	HA	GLU	X	264	54.344	69.936	43.212	0.00	0.00
ATOM	3938	CB	GLU	X	264	55.844	70.115	44.720	0.00	0.00
ATOM	3939	HB2	GLU	X	264	56.053	69.803	45.743	0.00	0.00
ATOM	3940	HB3	GLU	X	264	56.667	70.060	44.007	0.00	0.00
ATOM	3941	CG	GLU	X	264	55.449	71.588	44.745	0.00	0.00
ATOM	3942	HG2	GLU	X	264	55.237	71.940	43.736	0.00	0.00
ATOM	3943	HG3	GLU	X	264	54.476	71.666	45.230	0.00	0.00
ATOM	3944	CD	GLU	X	264	56.491	72.483	45.440	0.00	0.00
ATOM	3945	OE1	GLU	X	264	57.708	72.280	45.285	0.00	0.00
ATOM	3946	OE2	GLU	X	264	56.093	73.284	46.308	0.00	0.00
ATOM	3947	C	GLU	X	264	55.137	68.021	43.643	0.00	0.00
ATOM	3948	O	GLU	X	264	55.816	67.942	42.636	0.00	0.00
ATOM	3949	N	LEU	X	265	54.803	66.939	44.345	0.00	0.00
ATOM	3950	H	LEU	X	265	54.430	67.122	45.266	0.00	0.00
ATOM	3951	CA	LEU	X	265	55.154	65.566	43.929	0.00	0.00
ATOM	3952	HA	LEU	X	265	56.102	65.445	43.405	0.00	0.00
ATOM	3953	CB	LEU	X	265	55.223	64.686	45.116	0.00	0.00
ATOM	3954	HB2	LEU	X	265	55.834	65.260	45.812	0.00	0.00
ATOM	3955	HB3	LEU	X	265	54.245	64.629	45.593	0.00	0.00
ATOM	3956	CG	LEU	X	265	55.752	63.279	44.818	0.00	0.00
ATOM	3957	HG	LEU	X	265	56.373	63.324	43.923	0.00	0.00
ATOM	3958	CD1	LEU	X	265	56.665	62.922	45.977	0.00	0.00
ATOM	3959	HD11	LEU	X	265	57.175	61.993	45.721	0.00	0.00
ATOM	3960	HD12	LEU	X	265	56.108	62.662	46.878	0.00	0.00
ATOM	3961	HD13	LEU	X	265	57.395	63.698	46.206	0.00	0.00
ATOM	3962	CD2	LEU	X	265	54.622	62.341	44.523	0.00	0.00
ATOM	3963	HD21	LEU	X	265	54.974	61.325	44.700	0.00	0.00
ATOM	3964	HD22	LEU	X	265	53.780	62.482	45.201	0.00	0.00
ATOM	3965	HD23	LEU	X	265	54.201	62.503	43.531	0.00	0.00
ATOM	3966	C	LEU	X	265	54.154	65.004	42.905	0.00	0.00
ATOM	3967	O	LEU	X	265	54.482	64.748	41.743	0.00	0.00
ATOM	3968	N	VAL	X	266	52.888	65.144	43.252	0.00	0.00
ATOM	3969	H	VAL	X	266	52.738	65.576	44.153	0.00	0.00
ATOM	3970	CA	VAL	X	266	51.836	64.621	42.466	0.00	0.00
ATOM	3971	HA	VAL	X	266	51.964	63.590	42.135	0.00	0.00
ATOM	3972	CB	VAL	X	266	50.536	64.474	43.279	0.00	0.00
ATOM	3973	HB	VAL	X	266	50.244	65.438	43.694	0.00	0.00
ATOM	3974	CG1	VAL	X	266	49.277	63.893	42.632	0.00	0.00
ATOM	3975	HG11	VAL	X	266	49.410	62.816	42.527	0.00	0.00
ATOM	3976	HG12	VAL	X	266	48.495	64.159	43.343	0.00	0.00
ATOM	3977	HG13	VAL	X	266	49.025	64.222	41.624	0.00	0.00
ATOM	3978	CG2	VAL	X	266	50.830	63.642	44.464	0.00	0.00
ATOM	3979	HG21	VAL	X	266	51.519	64.116	45.162	0.00	0.00
ATOM	3980	HG22	VAL	X	266	51.339	62.732	44.148	0.00	0.00
ATOM	3981	HG23	VAL	X	266	49.963	63.355	45.060	0.00	0.00
ATOM	3982	C	VAL	X	266	51.476	65.437	41.222	0.00	0.00
ATOM	3983	O	VAL	X	266	50.995	64.798	40.272	0.00	0.00
ATOM	3984	N	ALA	X	267	51.692	66.766	41.124	0.00	0.00
ATOM	3985	H	ALA	X	267	51.945	67.278	41.957	0.00	0.00
ATOM	3986	CA	ALA	X	267	51.487	67.518	39.867	0.00	0.00
ATOM	3987	HA	ALA	X	267	50.469	67.482	39.478	0.00	0.00
ATOM	3988	CB	ALA	X	267	51.866	68.928	40.050	0.00	0.00
ATOM	3989	HB1	ALA	X	267	52.857	68.977	40.502	0.00	0.00
ATOM	3990	HB2	ALA	X	267	51.053	69.412	40.591	0.00	0.00
ATOM	3991	HB3	ALA	X	267	51.942	69.555	39.161	0.00	0.00
ATOM	3992	C	ALA	X	267	52.397	67.034	38.714	0.00	0.00
ATOM	3993	O	ALA	X	267	52.002	66.745	37.612	0.00	0.00
ATOM	3994	N	CYX	X	268	53.638	66.780	39.062	0.00	0.00
ATOM	3995	H	CYX	X	268	53.945	67.064	39.981	0.00	0.00
ATOM	3996	CA	CYX	X	268	54.609	66.112	38.163	0.00	0.00
ATOM	3997	HA	CYX	X	268	54.559	66.559	37.170	0.00	0.00

ATOM	3998	CB	CYX	X	268	56.024	66.261	38.764	0.00	0.00
ATOM	3999	HB2	CYX	X	268	56.267	67.312	38.607	0.00	0.00
ATOM	4000	HB3	CYX	X	268	56.027	66.092	39.841	0.00	0.00
ATOM	4001	SG	CYX	X	268	57.314	65.192	38.138	0.00	0.00
ATOM	4002	C	CYX	X	268	54.184	64.643	38.007	0.00	0.00
ATOM	4003	O	CYX	X	268	54.171	64.191	36.917	0.00	0.00
ATOM	4004	N	LEU	X	269	53.816	63.892	39.017	0.00	0.00
ATOM	4005	H	LEU	X	269	53.841	64.345	39.919	0.00	0.00
ATOM	4006	CA	LEU	X	269	53.366	62.520	38.830	0.00	0.00
ATOM	4007	HA	LEU	X	269	54.104	61.997	38.222	0.00	0.00
ATOM	4008	CB	LEU	X	269	53.163	61.918	40.223	0.00	0.00
ATOM	4009	HB2	LEU	X	269	53.965	62.190	40.909	0.00	0.00
ATOM	4010	HB3	LEU	X	269	52.212	62.287	40.608	0.00	0.00
ATOM	4011	CG	LEU	X	269	53.163	60.366	40.164	0.00	0.00
ATOM	4012	HG	LEU	X	269	52.441	60.004	39.433	0.00	0.00
ATOM	4013	CD1	LEU	X	269	54.601	59.885	39.881	0.00	0.00
ATOM	4014	HD11	LEU	X	269	55.056	60.525	39.126	0.00	0.00
ATOM	4015	HD12	LEU	X	269	54.664	58.817	39.671	0.00	0.00
ATOM	4016	HD13	LEU	X	269	55.204	60.010	40.781	0.00	0.00
ATOM	4017	CD2	LEU	X	269	52.716	59.917	41.591	0.00	0.00
ATOM	4018	HD21	LEU	X	269	52.542	58.847	41.475	0.00	0.00
ATOM	4019	HD22	LEU	X	269	53.402	60.170	42.400	0.00	0.00
ATOM	4020	HD23	LEU	X	269	51.757	60.366	41.847	0.00	0.00
ATOM	4021	C	LEU	X	269	52.104	62.422	37.996	0.00	0.00
ATOM	4022	O	LEU	X	269	51.781	61.322	37.534	0.00	0.00
ATOM	4023	N	ARG	X	270	51.391	63.544	37.680	0.00	0.00
ATOM	4024	H	ARG	X	270	51.669	64.452	38.023	0.00	0.00
ATOM	4025	CA	ARG	X	270	50.284	63.575	36.739	0.00	0.00
ATOM	4026	HA	ARG	X	270	49.947	62.545	36.622	0.00	0.00
ATOM	4027	CB	ARG	X	270	49.133	64.508	37.157	0.00	0.00
ATOM	4028	HB2	ARG	X	270	49.550	65.447	37.520	0.00	0.00
ATOM	4029	HB3	ARG	X	270	48.505	64.754	36.301	0.00	0.00
ATOM	4030	CG	ARG	X	270	48.177	63.742	38.029	0.00	0.00
ATOM	4031	HG2	ARG	X	270	48.182	62.736	37.608	0.00	0.00
ATOM	4032	HG3	ARG	X	270	48.496	63.694	39.070	0.00	0.00
ATOM	4033	CD	ARG	X	270	46.778	64.385	38.042	0.00	0.00
ATOM	4034	HD2	ARG	X	270	46.676	65.091	37.218	0.00	0.00
ATOM	4035	HD3	ARG	X	270	45.925	63.711	37.970	0.00	0.00
ATOM	4036	NE	ARG	X	270	46.594	65.223	39.227	0.00	0.00
ATOM	4037	HE	ARG	X	270	46.760	66.208	39.078	0.00	0.00
ATOM	4038	CZ	ARG	X	270	46.130	64.814	40.428	0.00	0.00
ATOM	4039	NH1	ARG	X	270	45.854	63.554	40.750	0.00	0.00
ATOM	4040	HH11	ARG	X	270	46.033	62.818	40.081	0.00	0.00
ATOM	4041	HH12	ARG	X	270	45.689	63.326	41.720	0.00	0.00
ATOM	4042	NH2	ARG	X	270	45.914	65.735	41.329	0.00	0.00
ATOM	4043	HH21	ARG	X	270	46.122	66.695	41.095	0.00	0.00
ATOM	4044	HH22	ARG	X	270	45.614	65.487	42.261	0.00	0.00
ATOM	4045	C	ARG	X	270	50.802	63.977	35.321	0.00	0.00
ATOM	4046	O	ARG	X	270	50.263	63.501	34.338	0.00	0.00
ATOM	4047	N	THR	X	271	51.788	64.884	35.262	0.00	0.00
ATOM	4048	H	THR	X	271	52.136	65.379	36.071	0.00	0.00
ATOM	4049	CA	THR	X	271	52.284	65.433	33.997	0.00	0.00
ATOM	4050	HA	THR	X	271	51.446	65.611	33.323	0.00	0.00
ATOM	4051	CB	THR	X	271	52.877	66.721	34.516	0.00	0.00
ATOM	4052	HB	THR	X	271	53.599	66.528	35.310	0.00	0.00
ATOM	4053	CG2	THR	X	271	53.565	67.502	33.379	0.00	0.00
ATOM	4054	HG21	THR	X	271	54.410	66.958	32.958	0.00	0.00
ATOM	4055	HG22	THR	X	271	53.858	68.465	33.797	0.00	0.00
ATOM	4056	HG23	THR	X	271	52.969	67.815	32.522	0.00	0.00
ATOM	4057	OG1	THR	X	271	51.853	67.543	34.962	0.00	0.00
ATOM	4058	HG1	THR	X	271	52.291	68.290	35.374	0.00	0.00
ATOM	4059	C	THR	X	271	53.218	64.505	33.293	0.00	0.00
ATOM	4060	O	THR	X	271	53.376	64.531	32.086	0.00	0.00
ATOM	4061	N	ARG	X	272	54.020	63.678	33.981	0.00	0.00
ATOM	4062	H	ARG	X	272	53.956	63.599	34.986	0.00	0.00
ATOM	4063	CA	ARG	X	272	55.147	62.924	33.312	0.00	0.00
ATOM	4064	HA	ARG	X	272	55.647	63.454	32.501	0.00	0.00

ATOM	4065	CB	ARG	X	272	56.132	62.558	34.384	0.00	0.00
ATOM	4066	HB2	ARG	X	272	55.654	62.028	35.208	0.00	0.00
ATOM	4067	HB3	ARG	X	272	56.892	61.833	34.093	0.00	0.00
ATOM	4068	CG	ARG	X	272	56.918	63.764	34.867	0.00	0.00
ATOM	4069	HG2	ARG	X	272	56.272	64.634	34.982	0.00	0.00
ATOM	4070	HG3	ARG	X	272	57.486	63.437	35.739	0.00	0.00
ATOM	4071	CD	ARG	X	272	57.891	64.202	33.797	0.00	0.00
ATOM	4072	HD2	ARG	X	272	58.527	63.348	33.564	0.00	0.00
ATOM	4073	HD3	ARG	X	272	57.401	64.447	32.854	0.00	0.00
ATOM	4074	NE	ARG	X	272	58.805	65.368	34.195	0.00	0.00
ATOM	4075	HE	ARG	X	272	59.510	65.207	34.901	0.00	0.00
ATOM	4076	CZ	ARG	X	272	58.552	66.645	34.099	0.00	0.00
ATOM	4077	NH1	ARG	X	272	57.596	67.118	33.294	0.00	0.00
ATOM	4078	HH11	ARG	X	272	57.115	66.561	32.602	0.00	0.00
ATOM	4079	HH12	ARG	X	272	57.420	68.106	33.180	0.00	0.00
ATOM	4080	NH2	ARG	X	272	59.282	67.450	34.802	0.00	0.00
ATOM	4081	HH21	ARG	X	272	59.877	66.915	35.420	0.00	0.00
ATOM	4082	HH22	ARG	X	272	59.505	68.414	34.602	0.00	0.00
ATOM	4083	C	ARG	X	272	54.559	61.621	32.734	0.00	0.00
ATOM	4084	O	ARG	X	272	53.607	61.033	33.300	0.00	0.00
ATOM	4085	N	PRO	X	273	55.087	61.152	31.574	0.00	0.00
ATOM	4086	CD	PRO	X	273	56.292	61.686	30.876	0.00	0.00
ATOM	4087	HD2	PRO	X	273	57.151	61.905	31.510	0.00	0.00
ATOM	4088	HD3	PRO	X	273	56.191	62.638	30.353	0.00	0.00
ATOM	4089	CG	PRO	X	273	56.708	60.544	29.969	0.00	0.00
ATOM	4090	HG2	PRO	X	273	57.187	59.748	30.538	0.00	0.00
ATOM	4091	HG3	PRO	X	273	57.305	60.843	29.108	0.00	0.00
ATOM	4092	CB	PRO	X	273	55.359	59.943	29.466	0.00	0.00
ATOM	4093	HB2	PRO	X	273	55.483	58.922	29.104	0.00	0.00
ATOM	4094	HB3	PRO	X	273	54.957	60.568	28.669	0.00	0.00
ATOM	4095	CA	PRO	X	273	54.468	60.082	30.761	0.00	0.00
ATOM	4096	HA	PRO	X	273	53.501	60.435	30.403	0.00	0.00
ATOM	4097	C	PRO	X	273	54.152	58.747	31.415	0.00	0.00
ATOM	4098	O	PRO	X	273	54.608	58.390	32.534	0.00	0.00
ATOM	4099	N	ALA	X	274	53.193	57.963	30.814	0.00	0.00
ATOM	4100	H	ALA	X	274	52.785	58.364	29.981	0.00	0.00
ATOM	4101	CA	ALA	X	274	52.700	56.690	31.354	0.00	0.00
ATOM	4102	HA	ALA	X	274	52.499	56.827	32.417	0.00	0.00
ATOM	4103	CB	ALA	X	274	51.357	56.320	30.715	0.00	0.00
ATOM	4104	HB1	ALA	X	274	51.446	56.307	29.629	0.00	0.00
ATOM	4105	HB2	ALA	X	274	50.618	57.008	31.125	0.00	0.00
ATOM	4106	HB3	ALA	X	274	51.173	55.305	31.069	0.00	0.00
ATOM	4107	C	ALA	X	274	53.591	55.467	31.273	0.00	0.00
ATOM	4108	O	ALA	X	274	53.527	54.635	32.216	0.00	0.00
ATOM	4109	N	GLN	X	275	54.478	55.342	30.260	0.00	0.00
ATOM	4110	H	GLN	X	275	54.436	55.993	29.489	0.00	0.00
ATOM	4111	CA	GLN	X	275	55.305	54.200	30.156	0.00	0.00
ATOM	4112	HA	GLN	X	275	54.825	53.250	30.393	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.892	54.217	28.698	0.00	0.00
ATOM	4114	HB2	GLN	X	275	55.086	53.837	28.071	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.013	55.232	28.320	0.00	0.00
ATOM	4116	CG	GLN	X	275	57.119	53.283	28.482	0.00	0.00
ATOM	4117	HG2	GLN	X	275	56.999	52.350	29.032	0.00	0.00
ATOM	4118	HG3	GLN	X	275	57.144	52.974	27.438	0.00	0.00
ATOM	4119	CD	GLN	X	275	58.464	53.896	28.773	0.00	0.00
ATOM	4120	OE1	GLN	X	275	58.810	55.065	28.454	0.00	0.00
ATOM	4121	NE2	GLN	X	275	59.358	53.217	29.388	0.00	0.00
ATOM	4122	HE21	GLN	X	275	60.173	53.731	29.691	0.00	0.00
ATOM	4123	HE22	GLN	X	275	59.172	52.299	29.767	0.00	0.00
ATOM	4124	C	GLN	X	275	56.381	54.329	31.184	0.00	0.00
ATOM	4125	O	GLN	X	275	56.566	53.367	31.946	0.00	0.00
ATOM	4126	N	VAL	X	276	56.898	55.562	31.392	0.00	0.00
ATOM	4127	H	VAL	X	276	56.713	56.304	30.731	0.00	0.00
ATOM	4128	CA	VAL	X	276	57.994	55.635	32.437	0.00	0.00
ATOM	4129	HA	VAL	X	276	58.686	54.811	32.260	0.00	0.00
ATOM	4130	CB	VAL	X	276	58.860	56.935	32.512	0.00	0.00
ATOM	4131	HB	VAL	X	276	59.101	57.155	31.472	0.00	0.00

ATOM	4132	CG1	VAL	X	276	58.158	58.132	33.132	0.00	0.00
ATOM	4133	HG11	VAL	X	276	57.184	58.240	32.656	0.00	0.00
ATOM	4134	HG12	VAL	X	276	58.084	58.005	34.212	0.00	0.00
ATOM	4135	HG13	VAL	X	276	58.707	59.049	32.920	0.00	0.00
ATOM	4136	CG2	VAL	X	276	60.212	56.761	33.196	0.00	0.00
ATOM	4137	HG21	VAL	X	276	60.847	57.620	32.979	0.00	0.00
ATOM	4138	HG22	VAL	X	276	60.776	55.896	32.848	0.00	0.00
ATOM	4139	HG23	VAL	X	276	60.148	56.662	34.280	0.00	0.00
ATOM	4140	C	VAL	X	276	57.466	55.380	33.849	0.00	0.00
ATOM	4141	O	VAL	X	276	58.146	54.806	34.669	0.00	0.00
ATOM	4142	N	LEU	X	277	56.227	55.872	34.090	0.00	0.00
ATOM	4143	H	LEU	X	277	55.710	56.387	33.391	0.00	0.00
ATOM	4144	CA	LEU	X	277	55.583	55.759	35.383	0.00	0.00
ATOM	4145	HA	LEU	X	277	56.250	56.157	36.147	0.00	0.00
ATOM	4146	CB	LEU	X	277	54.276	56.695	35.334	0.00	0.00
ATOM	4147	HB2	LEU	X	277	54.466	57.655	34.855	0.00	0.00
ATOM	4148	HB3	LEU	X	277	53.513	56.196	34.736	0.00	0.00
ATOM	4149	CG	LEU	X	277	53.868	57.079	36.800	0.00	0.00
ATOM	4150	HG	LEU	X	277	54.725	57.528	37.302	0.00	0.00
ATOM	4151	CD1	LEU	X	277	52.802	58.154	36.739	0.00	0.00
ATOM	4152	HD11	LEU	X	277	53.175	59.040	36.225	0.00	0.00
ATOM	4153	HD12	LEU	X	277	52.568	58.418	37.770	0.00	0.00
ATOM	4154	HD13	LEU	X	277	51.908	57.760	36.256	0.00	0.00
ATOM	4155	CD2	LEU	X	277	53.269	55.973	37.677	0.00	0.00
ATOM	4156	HD21	LEU	X	277	52.240	55.734	37.410	0.00	0.00
ATOM	4157	HD22	LEU	X	277	53.888	55.076	37.706	0.00	0.00
ATOM	4158	HD23	LEU	X	277	53.359	56.261	38.724	0.00	0.00
ATOM	4159	C	LEU	X	277	55.399	54.307	35.643	0.00	0.00
ATOM	4160	O	LEU	X	277	56.026	53.730	36.577	0.00	0.00
ATOM	4161	N	VAL	X	278	54.766	53.603	34.706	0.00	0.00
ATOM	4162	H	VAL	X	278	54.493	53.992	33.814	0.00	0.00
ATOM	4163	CA	VAL	X	278	54.512	52.151	34.863	0.00	0.00
ATOM	4164	HA	VAL	X	278	54.139	51.983	35.874	0.00	0.00
ATOM	4165	CB	VAL	X	278	53.339	51.744	33.936	0.00	0.00
ATOM	4166	HB	VAL	X	278	52.755	52.627	33.677	0.00	0.00
ATOM	4167	CG1	VAL	X	278	53.736	51.084	32.615	0.00	0.00
ATOM	4168	HG11	VAL	X	278	52.817	50.919	32.053	0.00	0.00
ATOM	4169	HG12	VAL	X	278	54.529	51.605	32.080	0.00	0.00
ATOM	4170	HG13	VAL	X	278	54.013	50.050	32.820	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.402	50.817	34.617	0.00	0.00
ATOM	4172	HG21	VAL	X	278	52.897	49.871	34.834	0.00	0.00
ATOM	4173	HG22	VAL	X	278	51.492	50.598	34.059	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.141	51.227	35.593	0.00	0.00
ATOM	4175	C	VAL	X	278	55.718	51.159	34.875	0.00	0.00
ATOM	4176	O	VAL	X	278	55.662	50.140	35.502	0.00	0.00
ATOM	4177	N	ASN	X	279	56.836	51.589	34.280	0.00	0.00
ATOM	4178	H	ASN	X	279	56.798	52.483	33.810	0.00	0.00
ATOM	4179	CA	ASN	X	279	58.076	50.846	34.337	0.00	0.00
ATOM	4180	HA	ASN	X	279	57.829	49.805	34.128	0.00	0.00
ATOM	4181	CB	ASN	X	279	58.944	51.414	33.221	0.00	0.00
ATOM	4182	HB2	ASN	X	279	58.769	52.480	33.075	0.00	0.00
ATOM	4183	HB3	ASN	X	279	59.995	51.371	33.508	0.00	0.00
ATOM	4184	CG	ASN	X	279	58.856	50.587	31.953	0.00	0.00
ATOM	4185	OD1	ASN	X	279	59.580	49.604	31.755	0.00	0.00
ATOM	4186	ND2	ASN	X	279	58.019	50.961	31.042	0.00	0.00
ATOM	4187	HD21	ASN	X	279	57.877	50.431	30.194	0.00	0.00
ATOM	4188	HD22	ASN	X	279	57.385	51.701	31.306	0.00	0.00
ATOM	4189	C	ASN	X	279	58.808	51.047	35.750	0.00	0.00
ATOM	4190	O	ASN	X	279	59.604	50.121	36.097	0.00	0.00
ATOM	4191	N	HIE	X	280	58.548	52.072	36.524	0.00	0.00
ATOM	4192	H	HIE	X	280	58.000	52.807	36.100	0.00	0.00
ATOM	4193	CA	HIE	X	280	58.928	52.194	37.954	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.783	51.620	38.311	0.00	0.00
ATOM	4195	CB	HIE	X	280	59.269	53.652	38.209	0.00	0.00
ATOM	4196	HB2	HIE	X	280	58.503	54.382	37.946	0.00	0.00
ATOM	4197	HB3	HIE	X	280	59.441	53.700	39.284	0.00	0.00
ATOM	4198	CG	HIE	X	280	60.562	54.091	37.610	0.00	0.00

ATOM	4199	ND1	HIE	X	280	61.756	53.413	37.695	0.00	0.00
ATOM	4200	CE1	HIE	X	280	62.618	54.212	36.974	0.00	0.00
ATOM	4201	HE1	HIE	X	280	63.687	54.078	36.897	0.00	0.00
ATOM	4202	NE2	HIE	X	280	62.008	55.235	36.340	0.00	0.00
ATOM	4203	HE2	HIE	X	280	62.450	55.966	35.801	0.00	0.00
ATOM	4204	CD2	HIE	X	280	60.711	55.173	36.759	0.00	0.00
ATOM	4205	HD2	HIE	X	280	59.905	55.832	36.473	0.00	0.00
ATOM	4206	C	HIE	X	280	57.867	51.644	38.928	0.00	0.00
ATOM	4207	O	HIE	X	280	58.256	51.330	40.046	0.00	0.00
ATOM	4208	N	GLU	X	281	56.565	51.566	38.574	0.00	0.00
ATOM	4209	H	GLU	X	281	56.237	52.071	37.763	0.00	0.00
ATOM	4210	CA	GLU	X	281	55.676	50.758	39.430	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.605	51.272	40.389	0.00	0.00
ATOM	4212	CB	GLU	X	281	54.268	50.704	38.883	0.00	0.00
ATOM	4213	HB2	GLU	X	281	54.068	51.617	38.323	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.145	49.803	38.281	0.00	0.00
ATOM	4215	CG	GLU	X	281	53.206	50.683	39.932	0.00	0.00
ATOM	4216	HG2	GLU	X	281	53.580	49.981	40.677	0.00	0.00
ATOM	4217	HG3	GLU	X	281	53.150	51.694	40.335	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.876	50.216	39.362	0.00	0.00
ATOM	4219	OE1	GLU	X	281	51.386	50.874	38.399	0.00	0.00
ATOM	4220	OE2	GLU	X	281	51.378	49.137	39.809	0.00	0.00
ATOM	4221	C	GLU	X	281	56.235	49.405	39.756	0.00	0.00
ATOM	4222	O	GLU	X	281	56.293	49.008	40.927	0.00	0.00
ATOM	4223	N	TRP	X	282	56.828	48.793	38.732	0.00	0.00
ATOM	4224	H	TRP	X	282	56.774	49.253	37.834	0.00	0.00
ATOM	4225	CA	TRP	X	282	57.389	47.384	38.915	0.00	0.00
ATOM	4226	HA	TRP	X	282	56.808	46.823	39.647	0.00	0.00
ATOM	4227	CB	TRP	X	282	57.475	46.682	37.535	0.00	0.00
ATOM	4228	HB2	TRP	X	282	57.423	47.376	36.696	0.00	0.00
ATOM	4229	HB3	TRP	X	282	58.465	46.227	37.497	0.00	0.00
ATOM	4230	CG	TRP	X	282	56.190	45.840	37.548	0.00	0.00
ATOM	4231	CD1	TRP	X	282	54.965	46.390	37.795	0.00	0.00
ATOM	4232	HD1	TRP	X	282	54.694	47.427	37.927	0.00	0.00
ATOM	4233	NE1	TRP	X	282	54.058	45.316	38.069	0.00	0.00
ATOM	4234	HE1	TRP	X	282	53.110	45.422	38.401	0.00	0.00
ATOM	4235	CE2	TRP	X	282	54.675	44.134	37.880	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	54.264	42.812	38.038	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	53.299	42.561	38.454	0.00	0.00
ATOM	4238	CH2	TRP	X	282	55.174	41.715	37.721	0.00	0.00
ATOM	4239	HH2	TRP	X	282	54.873	40.680	37.799	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	56.456	42.025	37.194	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	57.126	41.234	36.890	0.00	0.00
ATOM	4242	CE3	TRP	X	282	56.893	43.378	37.118	0.00	0.00
ATOM	4243	HE3	TRP	X	282	57.824	43.660	36.648	0.00	0.00
ATOM	4244	CD2	TRP	X	282	56.012	44.403	37.449	0.00	0.00
ATOM	4245	C	TRP	X	282	58.762	47.436	39.634	0.00	0.00
ATOM	4246	O	TRP	X	282	59.372	46.376	39.899	0.00	0.00
ATOM	4247	N	HIE	X	283	59.301	48.617	39.915	0.00	0.00
ATOM	4248	H	HIE	X	283	58.773	49.423	39.613	0.00	0.00
ATOM	4249	CA	HIE	X	283	60.257	48.890	41.004	0.00	0.00
ATOM	4250	HA	HIE	X	283	61.009	48.105	40.928	0.00	0.00
ATOM	4251	CB	HIE	X	283	61.092	50.118	40.532	0.00	0.00
ATOM	4252	HB2	HIE	X	283	61.191	50.082	39.448	0.00	0.00
ATOM	4253	HB3	HIE	X	283	60.557	51.018	40.835	0.00	0.00
ATOM	4254	CG	HIE	X	283	62.477	50.255	41.051	0.00	0.00
ATOM	4255	ND1	HIE	X	283	63.575	49.788	40.412	0.00	0.00
ATOM	4256	CE1	HIE	X	283	64.590	50.230	41.121	0.00	0.00
ATOM	4257	HE1	HIE	X	283	65.642	50.095	40.914	0.00	0.00
ATOM	4258	NE2	HIE	X	283	64.186	50.881	42.218	0.00	0.00
ATOM	4259	HE2	HIE	X	283	64.774	51.156	42.992	0.00	0.00
ATOM	4260	CD2	HIE	X	283	62.848	50.898	42.160	0.00	0.00
ATOM	4261	HD2	HIE	X	283	62.216	51.462	42.830	0.00	0.00
ATOM	4262	C	HIE	X	283	59.744	49.096	42.474	0.00	0.00
ATOM	4263	O	HIE	X	283	60.472	49.167	43.458	0.00	0.00
ATOM	4264	N	VAL	X	284	58.401	49.150	42.630	0.00	0.00
ATOM	4265	H	VAL	X	284	57.867	49.144	41.773	0.00	0.00

ATOM	4266	CA	VAL	X	284	57.577	49.229	43.827	0.00	0.00
ATOM	4267	HA	VAL	X	284	58.197	48.900	44.661	0.00	0.00
ATOM	4268	CB	VAL	X	284	57.132	50.681	44.184	0.00	0.00
ATOM	4269	HB	VAL	X	284	56.540	50.592	45.095	0.00	0.00
ATOM	4270	CG1	VAL	X	284	58.305	51.680	44.495	0.00	0.00
ATOM	4271	HG11	VAL	X	284	58.772	51.242	45.377	0.00	0.00
ATOM	4272	HG12	VAL	X	284	58.987	51.876	43.668	0.00	0.00
ATOM	4273	HG13	VAL	X	284	57.860	52.632	44.787	0.00	0.00
ATOM	4274	CG2	VAL	X	284	56.234	51.437	43.194	0.00	0.00
ATOM	4275	HG21	VAL	X	284	55.948	52.417	43.576	0.00	0.00
ATOM	4276	HG22	VAL	X	284	55.401	50.805	42.886	0.00	0.00
ATOM	4277	HG23	VAL	X	284	56.851	51.711	42.338	0.00	0.00
ATOM	4278	C	VAL	X	284	56.472	48.170	43.908	0.00	0.00
ATOM	4279	O	VAL	X	284	55.392	48.493	44.375	0.00	0.00
ATOM	4280	N	LEU	X	285	56.776	47.004	43.437	0.00	0.00
ATOM	4281	H	LEU	X	285	57.723	46.954	43.090	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.372	45.628	43.813	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.302	45.497	43.979	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.929	44.652	42.738	0.00	0.00
ATOM	4285	HB2	LEU	X	285	57.644	45.212	42.135	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.574	43.970	43.292	0.00	0.00
ATOM	4287	CG	LEU	X	285	55.938	43.836	41.913	0.00	0.00
ATOM	4288	HG	LEU	X	285	55.657	43.011	42.568	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.691	44.531	41.390	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.275	45.170	42.169	0.00	0.00
ATOM	4291	HD12	LEU	X	285	53.963	43.752	41.163	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.919	45.052	40.460	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.674	43.189	40.710	0.00	0.00
ATOM	4294	HD21	LEU	X	285	55.984	42.504	40.216	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.989	43.995	40.047	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.506	42.638	41.147	0.00	0.00
ATOM	4297	C	LEU	X	285	56.965	45.379	45.218	0.00	0.00
ATOM	4298	O	LEU	X	285	57.924	45.996	45.606	0.00	0.00
ATOM	4299	N	PRO	X	286	56.338	44.557	46.121	0.00	0.00
ATOM	4300	CD	PRO	X	286	54.933	44.161	45.967	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.825	43.588	45.046	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.270	45.019	46.081	0.00	0.00
ATOM	4303	CG	PRO	X	286	54.693	43.177	47.160	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.818	42.127	46.899	0.00	0.00
ATOM	4305	HG3	PRO	X	286	53.717	43.425	47.579	0.00	0.00
ATOM	4306	CB	PRO	X	286	55.736	43.637	48.205	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.093	42.830	48.845	0.00	0.00
ATOM	4308	HB3	PRO	X	286	55.276	44.453	48.762	0.00	0.00
ATOM	4309	CA	PRO	X	286	56.934	44.230	47.401	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.181	45.194	47.846	0.00	0.00
ATOM	4311	C	PRO	X	286	58.102	43.307	47.162	0.00	0.00
ATOM	4312	O	PRO	X	286	57.932	42.175	46.615	0.00	0.00
ATOM	4313	N	GLN	X	287	59.337	43.712	47.541	0.00	0.00
ATOM	4314	H	GLN	X	287	59.390	44.589	48.039	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.464	42.877	47.367	0.00	0.00
ATOM	4316	HA	GLN	X	287	60.411	42.483	46.352	0.00	0.00
ATOM	4317	CB	GLN	X	287	61.777	43.696	47.460	0.00	0.00
ATOM	4318	HB2	GLN	X	287	61.865	44.120	48.460	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.637	43.073	47.214	0.00	0.00
ATOM	4320	CG	GLN	X	287	61.868	44.943	46.590	0.00	0.00
ATOM	4321	HG2	GLN	X	287	61.144	45.633	47.023	0.00	0.00
ATOM	4322	HG3	GLN	X	287	62.828	45.445	46.708	0.00	0.00
ATOM	4323	CD	GLN	X	287	61.617	44.662	45.059	0.00	0.00
ATOM	4324	OE1	GLN	X	287	62.462	44.389	44.240	0.00	0.00
ATOM	4325	NE2	GLN	X	287	60.356	44.561	44.663	0.00	0.00
ATOM	4326	HE21	GLN	X	287	60.345	44.305	43.686	0.00	0.00
ATOM	4327	HE22	GLN	X	287	59.547	44.673	45.258	0.00	0.00
ATOM	4328	C	GLN	X	287	60.534	41.652	48.335	0.00	0.00
ATOM	4329	O	GLN	X	287	60.096	41.842	49.434	0.00	0.00
ATOM	4330	N	GLU	X	288	60.986	40.437	47.968	0.00	0.00
ATOM	4331	H	GLU	X	288	61.312	40.347	47.016	0.00	0.00
ATOM	4332	CA	GLU	X	288	61.042	39.207	48.845	0.00	0.00

ATOM	4333	HA	GLU	X	288	61.347	38.369	48.218	0.00	0.00
ATOM	4334	CB	GLU	X	288	61.874	39.366	50.097	0.00	0.00
ATOM	4335	HB2	GLU	X	288	61.598	40.209	50.730	0.00	0.00
ATOM	4336	HB3	GLU	X	288	61.730	38.440	50.653	0.00	0.00
ATOM	4337	CG	GLU	X	288	63.343	39.428	49.787	0.00	0.00
ATOM	4338	HG2	GLU	X	288	63.552	38.417	49.438	0.00	0.00
ATOM	4339	HG3	GLU	X	288	63.465	40.129	48.961	0.00	0.00
ATOM	4340	CD	GLU	X	288	64.162	39.765	51.047	0.00	0.00
ATOM	4341	OE1	GLU	X	288	63.779	40.602	51.859	0.00	0.00
ATOM	4342	OE2	GLU	X	288	65.293	39.197	51.180	0.00	0.00
ATOM	4343	C	GLU	X	288	59.612	38.856	49.270	0.00	0.00
ATOM	4344	O	GLU	X	288	59.286	38.484	50.377	0.00	0.00
ATOM	4345	N	SER	X	289	58.728	38.853	48.294	0.00	0.00
ATOM	4346	H	SER	X	289	59.010	39.076	47.350	0.00	0.00
ATOM	4347	CA	SER	X	289	57.287	38.621	48.441	0.00	0.00
ATOM	4348	HA	SER	X	289	57.086	37.871	49.206	0.00	0.00
ATOM	4349	CB	SER	X	289	56.574	39.942	49.001	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.080	40.129	49.949	0.00	0.00
ATOM	4351	HB3	SER	X	289	56.794	40.752	48.305	0.00	0.00
ATOM	4352	OG	SER	X	289	55.181	39.748	49.155	0.00	0.00
ATOM	4353	HG	SER	X	289	54.784	40.487	49.622	0.00	0.00
ATOM	4354	C	SER	X	289	56.597	38.061	47.175	0.00	0.00
ATOM	4355	O	SER	X	289	57.033	38.470	46.060	0.00	0.00
ATOM	4356	N	VAL	X	290	55.518	37.357	47.389	0.00	0.00
ATOM	4357	H	VAL	X	290	55.215	37.164	48.332	0.00	0.00
ATOM	4358	CA	VAL	X	290	54.788	36.661	46.325	0.00	0.00
ATOM	4359	HA	VAL	X	290	54.930	37.263	45.427	0.00	0.00
ATOM	4360	CB	VAL	X	290	55.504	35.268	45.963	0.00	0.00
ATOM	4361	HB	VAL	X	290	56.593	35.279	45.950	0.00	0.00
ATOM	4362	CG1	VAL	X	290	55.121	34.124	46.842	0.00	0.00
ATOM	4363	HG11	VAL	X	290	55.345	34.548	47.822	0.00	0.00
ATOM	4364	HG12	VAL	X	290	54.076	33.815	46.845	0.00	0.00
ATOM	4365	HG13	VAL	X	290	55.771	33.272	46.645	0.00	0.00
ATOM	4366	CG2	VAL	X	290	55.136	34.807	44.507	0.00	0.00
ATOM	4367	HG21	VAL	X	290	54.100	34.473	44.468	0.00	0.00
ATOM	4368	HG22	VAL	X	290	55.677	33.881	44.312	0.00	0.00
ATOM	4369	HG23	VAL	X	290	55.171	35.607	43.768	0.00	0.00
ATOM	4370	C	VAL	X	290	53.284	36.492	46.676	0.00	0.00
ATOM	4371	O	VAL	X	290	52.890	36.582	47.834	0.00	0.00
ATOM	4372	N	PHE	X	291	52.434	36.473	45.668	0.00	0.00
ATOM	4373	H	PHE	X	291	52.957	36.377	44.810	0.00	0.00
ATOM	4374	CA	PHE	X	291	51.002	36.631	45.666	0.00	0.00
ATOM	4375	HA	PHE	X	291	50.638	36.662	44.639	0.00	0.00
ATOM	4376	CB	PHE	X	291	50.431	35.343	46.339	0.00	0.00
ATOM	4377	HB2	PHE	X	291	51.181	34.601	46.065	0.00	0.00
ATOM	4378	HB3	PHE	X	291	50.286	35.518	47.405	0.00	0.00
ATOM	4379	CG	PHE	X	291	49.056	34.753	45.967	0.00	0.00
ATOM	4380	CD1	PHE	X	291	48.105	35.406	45.187	0.00	0.00
ATOM	4381	HD1	PHE	X	291	48.273	36.444	44.941	0.00	0.00
ATOM	4382	CE1	PHE	X	291	46.888	34.795	44.857	0.00	0.00
ATOM	4383	HE1	PHE	X	291	46.145	35.236	44.208	0.00	0.00
ATOM	4384	CZ	PHE	X	291	46.672	33.433	45.160	0.00	0.00
ATOM	4385	HZ	PHE	X	291	45.875	32.832	44.749	0.00	0.00
ATOM	4386	CE2	PHE	X	291	47.670	32.739	45.914	0.00	0.00
ATOM	4387	HE2	PHE	X	291	47.490	31.692	46.110	0.00	0.00
ATOM	4388	CD2	PHE	X	291	48.806	33.411	46.351	0.00	0.00
ATOM	4389	HD2	PHE	X	291	49.592	32.925	46.910	0.00	0.00
ATOM	4390	C	PHE	X	291	50.570	37.949	46.238	0.00	0.00
ATOM	4391	O	PHE	X	291	49.701	38.114	47.086	0.00	0.00
ATOM	4392	N	ARG	X	292	51.347	38.965	45.861	0.00	0.00
ATOM	4393	H	ARG	X	292	52.023	38.821	45.124	0.00	0.00
ATOM	4394	CA	ARG	X	292	51.363	40.359	46.469	0.00	0.00
ATOM	4395	HA	ARG	X	292	50.333	40.709	46.539	0.00	0.00
ATOM	4396	CB	ARG	X	292	52.205	40.485	47.693	0.00	0.00
ATOM	4397	HB2	ARG	X	292	53.104	39.899	47.499	0.00	0.00
ATOM	4398	HB3	ARG	X	292	52.545	41.520	47.701	0.00	0.00
ATOM	4399	CG	ARG	X	292	51.705	39.967	49.032	0.00	0.00

ATOM	4400	HG2	ARG	X	292	51.727	38.877	49.016	0.00	0.00
ATOM	4401	HG3	ARG	X	292	52.453	40.280	49.760	0.00	0.00
ATOM	4402	CD	ARG	X	292	50.380	40.345	49.523	0.00	0.00
ATOM	4403	HD2	ARG	X	292	50.260	41.329	49.976	0.00	0.00
ATOM	4404	HD3	ARG	X	292	49.766	40.370	48.623	0.00	0.00
ATOM	4405	NE	ARG	X	292	49.862	39.251	50.342	0.00	0.00
ATOM	4406	HE	ARG	X	292	49.698	38.362	49.892	0.00	0.00
ATOM	4407	CZ	ARG	X	292	49.768	39.267	51.714	0.00	0.00
ATOM	4408	NH1	ARG	X	292	49.947	40.383	52.394	0.00	0.00
ATOM	4409	HH11	ARG	X	292	50.051	41.238	51.866	0.00	0.00
ATOM	4410	HH12	ARG	X	292	49.856	40.454	53.398	0.00	0.00
ATOM	4411	NH2	ARG	X	292	49.559	38.116	52.326	0.00	0.00
ATOM	4412	HH21	ARG	X	292	49.397	37.286	51.773	0.00	0.00
ATOM	4413	HH22	ARG	X	292	49.485	38.051	53.331	0.00	0.00
ATOM	4414	C	ARG	X	292	52.001	41.394	45.416	0.00	0.00
ATOM	4415	O	ARG	X	292	52.878	41.067	44.638	0.00	0.00
ATOM	4416	N	PHE	X	293	51.461	42.569	45.460	0.00	0.00
ATOM	4417	H	PHE	X	293	50.726	42.660	46.147	0.00	0.00
ATOM	4418	CA	PHE	X	293	51.293	43.439	44.313	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.017	43.075	43.584	0.00	0.00
ATOM	4420	CB	PHE	X	293	49.913	43.187	43.674	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.184	43.704	44.298	0.00	0.00
ATOM	4422	HB3	PHE	X	293	49.900	43.725	42.726	0.00	0.00
ATOM	4423	CG	PHE	X	293	49.480	41.742	43.462	0.00	0.00
ATOM	4424	CD1	PHE	X	293	50.118	40.960	42.466	0.00	0.00
ATOM	4425	HD1	PHE	X	293	50.901	41.398	41.865	0.00	0.00
ATOM	4426	CE1	PHE	X	293	49.743	39.573	42.354	0.00	0.00
ATOM	4427	HE1	PHE	X	293	50.269	38.958	41.638	0.00	0.00
ATOM	4428	CZ	PHE	X	293	48.771	39.005	43.145	0.00	0.00
ATOM	4429	HZ	PHE	X	293	48.527	37.959	43.032	0.00	0.00
ATOM	4430	CE2	PHE	X	293	48.171	39.810	44.108	0.00	0.00
ATOM	4431	HE2	PHE	X	293	47.552	39.278	44.816	0.00	0.00
ATOM	4432	CD2	PHE	X	293	48.514	41.167	44.292	0.00	0.00
ATOM	4433	HD2	PHE	X	293	48.119	41.676	45.159	0.00	0.00
ATOM	4434	C	PHE	X	293	51.571	44.935	44.715	0.00	0.00
ATOM	4435	O	PHE	X	293	51.605	45.301	45.874	0.00	0.00
ATOM	4436	N	SER	X	294	51.934	45.735	43.696	0.00	0.00
ATOM	4437	H	SER	X	294	51.632	45.462	42.772	0.00	0.00
ATOM	4438	CA	SER	X	294	52.292	47.114	43.753	0.00	0.00
ATOM	4439	HA	SER	X	294	53.164	47.063	44.405	0.00	0.00
ATOM	4440	CB	SER	X	294	52.664	47.530	42.332	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.830	48.606	42.382	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.559	47.013	41.986	0.00	0.00
ATOM	4443	OG	SER	X	294	51.568	47.223	41.419	0.00	0.00
ATOM	4444	HG	SER	X	294	51.529	47.915	40.755	0.00	0.00
ATOM	4445	C	SER	X	294	51.280	48.133	44.281	0.00	0.00
ATOM	4446	O	SER	X	294	51.580	48.779	45.281	0.00	0.00
ATOM	4447	N	PHE	X	295	50.077	48.283	43.742	0.00	0.00
ATOM	4448	H	PHE	X	295	49.917	47.756	42.896	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.953	49.010	44.313	0.00	0.00
ATOM	4450	HA	PHE	X	295	49.174	49.149	45.371	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.868	50.395	43.692	0.00	0.00
ATOM	4452	HB2	PHE	X	295	48.873	50.211	42.618	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.917	50.892	43.886	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.986	51.362	44.045	0.00	0.00
ATOM	4455	CD1	PHE	X	295	49.993	52.142	45.243	0.00	0.00
ATOM	4456	HD1	PHE	X	295	49.248	51.853	45.969	0.00	0.00
ATOM	4457	CE1	PHE	X	295	51.001	53.024	45.688	0.00	0.00
ATOM	4458	HE1	PHE	X	295	50.975	53.444	46.682	0.00	0.00
ATOM	4459	CZ	PHE	X	295	52.057	53.329	44.747	0.00	0.00
ATOM	4460	HZ	PHE	X	295	52.861	54.032	44.908	0.00	0.00
ATOM	4461	CE2	PHE	X	295	52.005	52.688	43.446	0.00	0.00
ATOM	4462	HE2	PHE	X	295	52.683	52.986	42.660	0.00	0.00
ATOM	4463	CD2	PHE	X	295	51.075	51.670	43.167	0.00	0.00
ATOM	4464	HD2	PHE	X	295	51.217	51.180	42.215	0.00	0.00
ATOM	4465	C	PHE	X	295	47.578	48.279	44.192	0.00	0.00
ATOM	4466	O	PHE	X	295	47.086	47.902	43.092	0.00	0.00

ATOM	4467	N	VAL	X	296	46.956	48.254	45.359	0.00	0.00
ATOM	4468	H	VAL	X	296	47.358	48.869	46.052	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.731	47.542	45.674	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.089	47.453	44.798	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.033	46.068	46.331	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.111	45.497	46.226	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.035	45.276	45.457	0.00	0.00
ATOM	4474	HG11	VAL	X	296	48.060	45.537	45.721	0.00	0.00
ATOM	4475	HG12	VAL	X	296	46.729	44.230	45.479	0.00	0.00
ATOM	4476	HG13	VAL	X	296	46.909	45.635	44.435	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.352	46.140	47.826	0.00	0.00
ATOM	4478	HG21	VAL	X	296	47.101	46.903	48.038	0.00	0.00
ATOM	4479	HG22	VAL	X	296	46.708	45.172	48.181	0.00	0.00
ATOM	4480	HG23	VAL	X	296	45.396	46.378	48.293	0.00	0.00
ATOM	4481	C	VAL	X	296	45.033	48.415	46.713	0.00	0.00
ATOM	4482	O	VAL	X	296	45.600	49.295	47.303	0.00	0.00
ATOM	4483	N	PRO	X	297	43.723	48.115	46.968	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.870	47.207	46.187	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.267	46.192	46.182	0.00	0.00
ATOM	4486	HD3	PRO	X	297	42.765	47.553	45.159	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.519	47.245	46.816	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.270	46.191	46.940	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.763	47.653	46.145	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.694	47.934	48.172	0.00	0.00
ATOM	4491	HB2	PRO	X	297	42.126	47.177	48.828	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.749	48.371	48.494	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.915	48.870	47.949	0.00	0.00
ATOM	4494	HA	PRO	X	297	42.552	49.815	47.543	0.00	0.00
ATOM	4495	C	PRO	X	297	43.547	49.268	49.304	0.00	0.00
ATOM	4496	O	PRO	X	297	44.045	48.391	50.024	0.00	0.00
ATOM	4497	N	VAL	X	298	43.501	50.517	49.561	0.00	0.00
ATOM	4498	H	VAL	X	298	43.108	51.071	48.814	0.00	0.00
ATOM	4499	CA	VAL	X	298	44.151	51.168	50.751	0.00	0.00
ATOM	4500	HA	VAL	X	298	44.902	50.482	51.143	0.00	0.00
ATOM	4501	CB	VAL	X	298	44.989	52.403	50.295	0.00	0.00
ATOM	4502	HB	VAL	X	298	44.314	53.234	50.088	0.00	0.00
ATOM	4503	CG1	VAL	X	298	45.925	52.892	51.407	0.00	0.00
ATOM	4504	HG11	VAL	X	298	45.322	53.221	52.254	0.00	0.00
ATOM	4505	HG12	VAL	X	298	46.519	52.054	51.771	0.00	0.00
ATOM	4506	HG13	VAL	X	298	46.613	53.671	51.079	0.00	0.00
ATOM	4507	CG2	VAL	X	298	45.976	52.241	49.072	0.00	0.00
ATOM	4508	HG21	VAL	X	298	46.776	51.523	49.253	0.00	0.00
ATOM	4509	HG22	VAL	X	298	46.599	53.066	48.728	0.00	0.00
ATOM	4510	HG23	VAL	X	298	45.421	51.975	48.173	0.00	0.00
ATOM	4511	C	VAL	X	298	43.184	51.560	51.776	0.00	0.00
ATOM	4512	O	VAL	X	298	42.140	52.125	51.470	0.00	0.00
ATOM	4513	N	VAL	X	299	43.479	51.130	53.059	0.00	0.00
ATOM	4514	H	VAL	X	299	44.338	50.612	53.180	0.00	0.00
ATOM	4515	CA	VAL	X	299	42.770	51.601	54.233	0.00	0.00
ATOM	4516	HA	VAL	X	299	41.708	51.460	54.032	0.00	0.00
ATOM	4517	CB	VAL	X	299	43.094	50.887	55.569	0.00	0.00
ATOM	4518	HB	VAL	X	299	44.154	50.948	55.819	0.00	0.00
ATOM	4519	CG1	VAL	X	299	42.366	51.513	56.682	0.00	0.00
ATOM	4520	HG11	VAL	X	299	42.837	52.469	56.914	0.00	0.00
ATOM	4521	HG12	VAL	X	299	41.303	51.671	56.495	0.00	0.00
ATOM	4522	HG13	VAL	X	299	42.373	50.832	57.533	0.00	0.00
ATOM	4523	CG2	VAL	X	299	42.745	49.373	55.440	0.00	0.00
ATOM	4524	HG21	VAL	X	299	41.675	49.334	55.233	0.00	0.00
ATOM	4525	HG22	VAL	X	299	42.902	48.867	56.393	0.00	0.00
ATOM	4526	HG23	VAL	X	299	43.380	48.901	54.690	0.00	0.00
ATOM	4527	C	VAL	X	299	43.041	53.091	54.275	0.00	0.00
ATOM	4528	O	VAL	X	299	44.145	53.479	54.517	0.00	0.00
ATOM	4529	N	ASP	X	300	42.009	53.931	54.051	0.00	0.00
ATOM	4530	H	ASP	X	300	41.120	53.506	53.832	0.00	0.00
ATOM	4531	CA	ASP	X	300	42.221	55.301	53.698	0.00	0.00
ATOM	4532	HA	ASP	X	300	43.245	55.605	53.912	0.00	0.00
ATOM	4533	CB	ASP	X	300	42.053	55.405	52.171	0.00	0.00

ATOM	4534	HB2	ASP	X	300	42.579	56.320	51.896	0.00	0.00
ATOM	4535	HB3	ASP	X	300	42.637	54.591	51.742	0.00	0.00
ATOM	4536	CG	ASP	X	300	40.537	55.382	51.731	0.00	0.00
ATOM	4537	OD1	ASP	X	300	39.679	54.758	52.386	0.00	0.00
ATOM	4538	OD2	ASP	X	300	40.193	55.920	50.620	0.00	0.00
ATOM	4539	C	ASP	X	300	41.299	56.269	54.456	0.00	0.00
ATOM	4540	O	ASP	X	300	41.236	57.449	54.141	0.00	0.00
ATOM	4541	N	GLY	X	301	40.532	55.726	55.385	0.00	0.00
ATOM	4542	H	GLY	X	301	40.598	54.730	55.541	0.00	0.00
ATOM	4543	CA	GLY	X	301	39.658	56.511	56.253	0.00	0.00
ATOM	4544	HA2	GLY	X	301	39.368	55.879	57.093	0.00	0.00
ATOM	4545	HA3	GLY	X	301	40.021	57.503	56.521	0.00	0.00
ATOM	4546	C	GLY	X	301	38.365	56.780	55.533	0.00	0.00
ATOM	4547	O	GLY	X	301	37.657	57.640	56.042	0.00	0.00
ATOM	4548	N	ASP	X	302	38.125	56.371	54.259	0.00	0.00
ATOM	4549	H	ASP	X	302	38.759	55.639	53.971	0.00	0.00
ATOM	4550	CA	ASP	X	302	37.051	56.893	53.390	0.00	0.00
ATOM	4551	HA	ASP	X	302	36.371	57.521	53.965	0.00	0.00
ATOM	4552	CB	ASP	X	302	37.775	57.887	52.442	0.00	0.00
ATOM	4553	HB2	ASP	X	302	38.125	58.769	52.978	0.00	0.00
ATOM	4554	HB3	ASP	X	302	38.541	57.345	51.888	0.00	0.00
ATOM	4555	CG	ASP	X	302	36.760	58.498	51.437	0.00	0.00
ATOM	4556	OD1	ASP	X	302	37.129	58.744	50.282	0.00	0.00
ATOM	4557	OD2	ASP	X	302	35.636	58.871	51.776	0.00	0.00
ATOM	4558	C	ASP	X	302	36.262	55.784	52.763	0.00	0.00
ATOM	4559	O	ASP	X	302	35.120	55.624	53.114	0.00	0.00
ATOM	4560	N	PHE	X	303	36.900	55.080	51.865	0.00	0.00
ATOM	4561	H	PHE	X	303	37.870	55.339	51.750	0.00	0.00
ATOM	4562	CA	PHE	X	303	36.368	53.911	51.239	0.00	0.00
ATOM	4563	HA	PHE	X	303	35.298	54.032	51.070	0.00	0.00
ATOM	4564	CB	PHE	X	303	37.008	53.795	49.857	0.00	0.00
ATOM	4565	HB2	PHE	X	303	36.912	54.792	49.427	0.00	0.00
ATOM	4566	HB3	PHE	X	303	38.067	53.577	49.997	0.00	0.00
ATOM	4567	CG	PHE	X	303	36.296	52.778	48.924	0.00	0.00
ATOM	4568	CD1	PHE	X	303	36.088	51.423	49.275	0.00	0.00
ATOM	4569	HD1	PHE	X	303	36.381	51.169	50.283	0.00	0.00
ATOM	4570	CE1	PHE	X	303	35.451	50.532	48.449	0.00	0.00
ATOM	4571	HE1	PHE	X	303	35.399	49.515	48.809	0.00	0.00
ATOM	4572	CZ	PHE	X	303	34.978	50.948	47.199	0.00	0.00
ATOM	4573	HZ	PHE	X	303	34.418	50.221	46.630	0.00	0.00
ATOM	4574	CE2	PHE	X	303	35.147	52.311	46.827	0.00	0.00
ATOM	4575	HE2	PHE	X	303	34.818	52.720	45.882	0.00	0.00
ATOM	4576	CD2	PHE	X	303	35.797	53.196	47.671	0.00	0.00
ATOM	4577	HD2	PHE	X	303	35.923	54.237	47.410	0.00	0.00
ATOM	4578	C	PHE	X	303	36.545	52.711	52.184	0.00	0.00
ATOM	4579	O	PHE	X	303	35.591	51.978	52.503	0.00	0.00
ATOM	4580	N	LEU	X	304	37.729	52.470	52.699	0.00	0.00
ATOM	4581	H	LEU	X	304	38.405	53.205	52.550	0.00	0.00
ATOM	4582	CA	LEU	X	304	38.025	51.490	53.688	0.00	0.00
ATOM	4583	HA	LEU	X	304	37.174	50.872	53.975	0.00	0.00
ATOM	4584	CB	LEU	X	304	39.186	50.637	53.064	0.00	0.00
ATOM	4585	HB2	LEU	X	304	40.003	51.292	52.762	0.00	0.00
ATOM	4586	HB3	LEU	X	304	39.545	50.060	53.916	0.00	0.00
ATOM	4587	CG	LEU	X	304	38.722	49.654	52.005	0.00	0.00
ATOM	4588	HG	LEU	X	304	38.515	50.301	51.153	0.00	0.00
ATOM	4589	CD1	LEU	X	304	39.869	48.779	51.559	0.00	0.00
ATOM	4590	HD11	LEU	X	304	40.797	49.350	51.596	0.00	0.00
ATOM	4591	HD12	LEU	X	304	39.701	48.427	50.541	0.00	0.00
ATOM	4592	HD13	LEU	X	304	39.962	47.957	52.269	0.00	0.00
ATOM	4593	CD2	LEU	X	304	37.575	48.696	52.373	0.00	0.00
ATOM	4594	HD21	LEU	X	304	37.476	48.034	51.513	0.00	0.00
ATOM	4595	HD22	LEU	X	304	37.991	48.124	53.203	0.00	0.00
ATOM	4596	HD23	LEU	X	304	36.558	48.956	52.666	0.00	0.00
ATOM	4597	C	LEU	X	304	38.410	52.259	55.004	0.00	0.00
ATOM	4598	O	LEU	X	304	39.508	52.825	55.147	0.00	0.00
ATOM	4599	N	SER	X	305	37.455	52.186	55.982	0.00	0.00
ATOM	4600	H	SER	X	305	36.526	51.814	55.849	0.00	0.00

ATOM	4601	CA	SER	X	305	37.705	52.823	57.220	0.00	0.00
ATOM	4602	HA	SER	X	305	38.252	53.742	57.010	0.00	0.00
ATOM	4603	CB	SER	X	305	36.452	53.239	58.004	0.00	0.00
ATOM	4604	HB2	SER	X	305	36.762	53.751	58.915	0.00	0.00
ATOM	4605	HB3	SER	X	305	35.952	53.989	57.393	0.00	0.00
ATOM	4606	OG	SER	X	305	35.571	52.131	58.236	0.00	0.00
ATOM	4607	HG	SER	X	305	35.274	51.800	57.385	0.00	0.00
ATOM	4608	C	SER	X	305	38.604	51.885	58.092	0.00	0.00
ATOM	4609	O	SER	X	305	39.358	52.445	58.918	0.00	0.00
ATOM	4610	N	ASP	X	306	38.651	50.589	57.789	0.00	0.00
ATOM	4611	H	ASP	X	306	38.175	50.306	56.944	0.00	0.00
ATOM	4612	CA	ASP	X	306	39.468	49.582	58.416	0.00	0.00
ATOM	4613	HA	ASP	X	306	40.347	50.035	58.874	0.00	0.00
ATOM	4614	CB	ASP	X	306	38.630	48.916	59.495	0.00	0.00
ATOM	4615	HB2	ASP	X	306	37.872	49.572	59.922	0.00	0.00
ATOM	4616	HB3	ASP	X	306	38.053	48.121	59.024	0.00	0.00
ATOM	4617	CG	ASP	X	306	39.417	48.331	60.673	0.00	0.00
ATOM	4618	OD1	ASP	X	306	39.025	48.332	61.822	0.00	0.00
ATOM	4619	OD2	ASP	X	306	40.557	47.816	60.502	0.00	0.00
ATOM	4620	C	ASP	X	306	39.827	48.510	57.340	0.00	0.00
ATOM	4621	O	ASP	X	306	39.541	48.732	56.143	0.00	0.00
ATOM	4622	N	THR	X	307	40.373	47.251	57.670	0.00	0.00
ATOM	4623	H	THR	X	307	40.525	47.127	58.660	0.00	0.00
ATOM	4624	CA	THR	X	307	40.600	46.137	56.680	0.00	0.00
ATOM	4625	HA	THR	X	307	40.874	46.707	55.792	0.00	0.00
ATOM	4626	CB	THR	X	307	41.782	45.203	56.961	0.00	0.00
ATOM	4627	HB	THR	X	307	41.951	44.542	56.111	0.00	0.00
ATOM	4628	CG2	THR	X	307	43.124	46.003	57.047	0.00	0.00
ATOM	4629	HG21	THR	X	307	43.911	45.342	57.410	0.00	0.00
ATOM	4630	HG22	THR	X	307	43.176	46.855	57.725	0.00	0.00
ATOM	4631	HG23	THR	X	307	43.423	46.263	56.032	0.00	0.00
ATOM	4632	OG1	THR	X	307	41.511	44.597	58.167	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.962	43.751	58.127	0.00	0.00
ATOM	4634	C	THR	X	307	39.253	45.449	56.381	0.00	0.00
ATOM	4635	O	THR	X	307	38.522	45.376	57.327	0.00	0.00
ATOM	4636	N	PRO	X	308	38.988	45.061	55.125	0.00	0.00
ATOM	4637	CD	PRO	X	308	39.704	45.404	53.926	0.00	0.00
ATOM	4638	HD2	PRO	X	308	40.503	44.688	53.734	0.00	0.00
ATOM	4639	HD3	PRO	X	308	40.074	46.424	53.825	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.715	45.112	52.830	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.033	45.043	51.790	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.940	45.874	52.750	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.956	43.847	53.319	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.598	42.968	53.261	0.00	0.00
ATOM	4645	HB3	PRO	X	308	36.995	43.777	52.810	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.705	44.360	54.776	0.00	0.00
ATOM	4647	HA	PRO	X	308	36.914	45.104	54.867	0.00	0.00
ATOM	4648	C	PRO	X	308	37.407	43.145	55.666	0.00	0.00
ATOM	4649	O	PRO	X	308	36.252	43.019	56.070	0.00	0.00
ATOM	4650	N	GLU	X	309	38.300	42.337	56.110	0.00	0.00
ATOM	4651	H	GLU	X	309	39.231	42.436	55.731	0.00	0.00
ATOM	4652	CA	GLU	X	309	38.045	41.317	57.150	0.00	0.00
ATOM	4653	HA	GLU	X	309	37.602	40.432	56.693	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.465	40.814	57.621	0.00	0.00
ATOM	4655	HB2	GLU	X	309	39.948	40.352	56.760	0.00	0.00
ATOM	4656	HB3	GLU	X	309	40.017	41.709	57.907	0.00	0.00
ATOM	4657	CG	GLU	X	309	39.412	39.824	58.800	0.00	0.00
ATOM	4658	HG2	GLU	X	309	39.072	40.326	59.707	0.00	0.00
ATOM	4659	HG3	GLU	X	309	38.684	39.051	58.552	0.00	0.00
ATOM	4660	CD	GLU	X	309	40.799	39.214	59.042	0.00	0.00
ATOM	4661	OE1	GLU	X	309	41.743	39.949	59.307	0.00	0.00
ATOM	4662	OE2	GLU	X	309	40.933	38.005	58.747	0.00	0.00
ATOM	4663	C	GLU	X	309	37.270	41.977	58.344	0.00	0.00
ATOM	4664	O	GLU	X	309	36.254	41.359	58.756	0.00	0.00
ATOM	4665	N	ALA	X	310	37.688	43.110	58.925	0.00	0.00
ATOM	4666	H	ALA	X	310	38.390	43.627	58.415	0.00	0.00
ATOM	4667	CA	ALA	X	310	37.004	43.707	60.041	0.00	0.00

ATOM	4668	HA	ALA	X	310	36.655	42.849	60.615	0.00	0.00
ATOM	4669	CB	ALA	X	310	38.014	44.496	60.871	0.00	0.00
ATOM	4670	HB1	ALA	X	310	38.542	45.143	60.171	0.00	0.00
ATOM	4671	HB2	ALA	X	310	38.775	43.832	61.281	0.00	0.00
ATOM	4672	HB3	ALA	X	310	37.477	45.043	61.646	0.00	0.00
ATOM	4673	C	ALA	X	310	35.733	44.484	59.645	0.00	0.00
ATOM	4674	O	ALA	X	310	34.757	44.603	60.441	0.00	0.00
ATOM	4675	N	LEU	X	311	35.693	45.014	58.416	0.00	0.00
ATOM	4676	H	LEU	X	311	36.546	44.952	57.879	0.00	0.00
ATOM	4677	CA	LEU	X	311	34.427	45.489	57.838	0.00	0.00
ATOM	4678	HA	LEU	X	311	33.937	45.974	58.682	0.00	0.00
ATOM	4679	CB	LEU	X	311	34.738	46.237	56.545	0.00	0.00
ATOM	4680	HB2	LEU	X	311	35.208	45.577	55.815	0.00	0.00
ATOM	4681	HB3	LEU	X	311	33.820	46.525	56.032	0.00	0.00
ATOM	4682	CG	LEU	X	311	35.658	47.433	56.639	0.00	0.00
ATOM	4683	HG	LEU	X	311	36.690	47.294	56.960	0.00	0.00
ATOM	4684	CD1	LEU	X	311	35.718	48.161	55.277	0.00	0.00
ATOM	4685	HD11	LEU	X	311	36.321	47.486	54.669	0.00	0.00
ATOM	4686	HD12	LEU	X	311	36.246	49.113	55.322	0.00	0.00
ATOM	4687	HD13	LEU	X	311	34.744	48.187	54.788	0.00	0.00
ATOM	4688	CD2	LEU	X	311	35.033	48.402	57.617	0.00	0.00
ATOM	4689	HD21	LEU	X	311	35.041	47.903	58.586	0.00	0.00
ATOM	4690	HD22	LEU	X	311	35.565	49.353	57.588	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.045	48.693	57.261	0.00	0.00
ATOM	4692	C	LEU	X	311	33.358	44.432	57.532	0.00	0.00
ATOM	4693	O	LEU	X	311	32.172	44.655	57.635	0.00	0.00
ATOM	4694	N	ILE	X	312	33.801	43.153	57.273	0.00	0.00
ATOM	4695	H	ILE	X	312	34.780	42.992	57.082	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.888	41.939	57.407	0.00	0.00
ATOM	4697	HA	ILE	X	312	31.930	42.127	56.923	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.616	40.813	56.628	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.597	40.775	57.101	0.00	0.00
ATOM	4700	CG2	ILE	X	312	32.890	39.441	56.755	0.00	0.00
ATOM	4701	HG21	ILE	X	312	31.900	39.550	56.313	0.00	0.00
ATOM	4702	HG22	ILE	X	312	32.834	39.193	57.815	0.00	0.00
ATOM	4703	HG23	ILE	X	312	33.404	38.710	56.130	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.719	41.101	55.148	0.00	0.00
ATOM	4705	HG12	ILE	X	312	32.834	40.735	54.628	0.00	0.00
ATOM	4706	HG13	ILE	X	312	33.867	42.175	55.038	0.00	0.00
ATOM	4707	CD1	ILE	X	312	34.977	40.386	54.438	0.00	0.00
ATOM	4708	HD11	ILE	X	312	35.883	40.651	54.983	0.00	0.00
ATOM	4709	HD12	ILE	X	312	35.176	40.718	53.419	0.00	0.00
ATOM	4710	HD13	ILE	X	312	34.840	39.307	54.507	0.00	0.00
ATOM	4711	C	ILE	X	312	32.518	41.645	58.828	0.00	0.00
ATOM	4712	O	ILE	X	312	31.342	41.302	59.060	0.00	0.00
ATOM	4713	N	ASN	X	313	33.476	41.723	59.718	0.00	0.00
ATOM	4714	H	ASN	X	313	34.413	41.963	59.425	0.00	0.00
ATOM	4715	CA	ASN	X	313	33.277	41.426	61.165	0.00	0.00
ATOM	4716	HA	ASN	X	313	33.077	40.357	61.242	0.00	0.00
ATOM	4717	CB	ASN	X	313	34.549	41.629	62.014	0.00	0.00
ATOM	4718	HB2	ASN	X	313	35.386	40.974	61.773	0.00	0.00
ATOM	4719	HB3	ASN	X	313	34.808	42.685	61.926	0.00	0.00
ATOM	4720	CG	ASN	X	313	34.319	41.381	63.530	0.00	0.00
ATOM	4721	OD1	ASN	X	313	34.024	40.289	64.000	0.00	0.00
ATOM	4722	ND2	ASN	X	313	34.356	42.463	64.252	0.00	0.00
ATOM	4723	HD21	ASN	X	313	34.430	42.449	65.259	0.00	0.00
ATOM	4724	HD22	ASN	X	313	34.665	43.342	63.860	0.00	0.00
ATOM	4725	C	ASN	X	313	32.259	42.423	61.832	0.00	0.00
ATOM	4726	O	ASN	X	313	31.561	42.145	62.781	0.00	0.00
ATOM	4727	N	ALA	X	314	32.223	43.599	61.284	0.00	0.00
ATOM	4728	H	ALA	X	314	32.836	43.726	60.491	0.00	0.00
ATOM	4729	CA	ALA	X	314	31.181	44.681	61.572	0.00	0.00
ATOM	4730	HA	ALA	X	314	30.903	44.667	62.626	0.00	0.00
ATOM	4731	CB	ALA	X	314	31.781	46.075	61.317	0.00	0.00
ATOM	4732	HB1	ALA	X	314	32.655	46.243	61.946	0.00	0.00
ATOM	4733	HB2	ALA	X	314	30.995	46.801	61.523	0.00	0.00
ATOM	4734	HB3	ALA	X	314	32.035	46.103	60.257	0.00	0.00

ATOM	4735	C	ALA	X	314	29.955	44.480	60.708	0.00	0.00
ATOM	4736	O	ALA	X	314	29.101	45.384	60.754	0.00	0.00
ATOM	4737	N	GLY	X	315	29.895	43.549	59.760	0.00	0.00
ATOM	4738	H	GLY	X	315	30.417	42.685	59.804	0.00	0.00
ATOM	4739	CA	GLY	X	315	29.016	43.536	58.568	0.00	0.00
ATOM	4740	HA2	GLY	X	315	28.820	44.566	58.270	0.00	0.00
ATOM	4741	HA3	GLY	X	315	29.433	42.940	57.756	0.00	0.00
ATOM	4742	C	GLY	X	315	27.656	42.924	58.855	0.00	0.00
ATOM	4743	O	GLY	X	315	27.478	42.309	59.892	0.00	0.00
ATOM	4744	N	ASP	X	316	26.683	43.051	57.874	0.00	0.00
ATOM	4745	H	ASP	X	316	26.875	43.552	57.018	0.00	0.00
ATOM	4746	CA	ASP	X	316	25.282	42.722	58.105	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.244	41.839	58.744	0.00	0.00
ATOM	4748	CB	ASP	X	316	24.534	43.894	58.771	0.00	0.00
ATOM	4749	HB2	ASP	X	316	25.151	44.274	59.584	0.00	0.00
ATOM	4750	HB3	ASP	X	316	24.270	44.681	58.064	0.00	0.00
ATOM	4751	CG	ASP	X	316	23.227	43.349	59.324	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.339	42.863	58.597	0.00	0.00
ATOM	4753	OD2	ASP	X	316	23.149	43.521	60.570	0.00	0.00
ATOM	4754	C	ASP	X	316	24.735	42.614	56.652	0.00	0.00
ATOM	4755	O	ASP	X	316	24.767	43.537	55.877	0.00	0.00
ATOM	4756	N	PHE	X	317	24.405	41.327	56.297	0.00	0.00
ATOM	4757	H	PHE	X	317	24.281	40.771	57.132	0.00	0.00
ATOM	4758	CA	PHE	X	317	24.282	40.780	55.009	0.00	0.00
ATOM	4759	HA	PHE	X	317	24.288	41.696	54.418	0.00	0.00
ATOM	4760	CB	PHE	X	317	25.475	39.789	54.779	0.00	0.00
ATOM	4761	HB2	PHE	X	317	25.344	38.921	55.425	0.00	0.00
ATOM	4762	HB3	PHE	X	317	25.581	39.428	53.756	0.00	0.00
ATOM	4763	CG	PHE	X	317	26.828	40.390	55.084	0.00	0.00
ATOM	4764	CD1	PHE	X	317	27.299	41.493	54.357	0.00	0.00
ATOM	4765	HD1	PHE	X	317	26.783	42.047	53.586	0.00	0.00
ATOM	4766	CE1	PHE	X	317	28.646	41.886	54.517	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.073	42.729	53.994	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.452	41.199	55.384	0.00	0.00
ATOM	4769	HZ	PHE	X	317	30.461	41.547	55.547	0.00	0.00
ATOM	4770	CE2	PHE	X	317	28.950	40.083	56.041	0.00	0.00
ATOM	4771	HE2	PHE	X	317	29.576	39.563	56.751	0.00	0.00
ATOM	4772	CD2	PHE	X	317	27.666	39.598	55.815	0.00	0.00
ATOM	4773	HD2	PHE	X	317	27.455	38.632	56.248	0.00	0.00
ATOM	4774	C	PHE	X	317	22.895	40.157	54.709	0.00	0.00
ATOM	4775	O	PHE	X	317	22.740	39.643	53.581	0.00	0.00
ATOM	4776	N	HIE	X	318	21.954	40.346	55.619	0.00	0.00
ATOM	4777	H	HIE	X	318	22.207	40.924	56.408	0.00	0.00
ATOM	4778	CA	HIE	X	318	20.516	40.003	55.522	0.00	0.00
ATOM	4779	HA	HIE	X	318	20.327	38.931	55.589	0.00	0.00
ATOM	4780	CB	HIE	X	318	19.789	40.599	56.697	0.00	0.00
ATOM	4781	HB2	HIE	X	318	20.252	40.100	57.548	0.00	0.00
ATOM	4782	HB3	HIE	X	318	20.008	41.667	56.676	0.00	0.00
ATOM	4783	CG	HIE	X	318	18.346	40.426	56.798	0.00	0.00
ATOM	4784	ND1	HIE	X	318	17.432	40.045	55.786	0.00	0.00
ATOM	4785	CE1	HIE	X	318	16.213	39.968	56.461	0.00	0.00
ATOM	4786	HE1	HIE	X	318	15.291	39.946	55.899	0.00	0.00
ATOM	4787	NE2	HIE	X	318	16.359	40.301	57.770	0.00	0.00
ATOM	4788	HE2	HIE	X	318	15.633	40.528	58.435	0.00	0.00
ATOM	4789	CD2	HIE	X	318	17.674	40.582	57.985	0.00	0.00
ATOM	4790	HD2	HIE	X	318	18.196	40.859	58.889	0.00	0.00
ATOM	4791	C	HIE	X	318	20.018	40.475	54.146	0.00	0.00
ATOM	4792	O	HIE	X	318	19.988	41.741	53.888	0.00	0.00
ATOM	4793	N	GLY	X	319	19.476	39.594	53.290	0.00	0.00
ATOM	4794	H	GLY	X	319	19.438	38.632	53.597	0.00	0.00
ATOM	4795	CA	GLY	X	319	18.874	39.930	52.034	0.00	0.00
ATOM	4796	HA2	GLY	X	319	17.912	39.417	52.054	0.00	0.00
ATOM	4797	HA3	GLY	X	319	18.554	40.966	51.927	0.00	0.00
ATOM	4798	C	GLY	X	319	19.695	39.548	50.737	0.00	0.00
ATOM	4799	O	GLY	X	319	19.214	39.737	49.638	0.00	0.00
ATOM	4800	N	LEU	X	320	21.011	39.218	50.907	0.00	0.00
ATOM	4801	H	LEU	X	320	21.252	39.015	51.866	0.00	0.00

ATOM	4802	CA	LEU	X	320	21.837	38.951	49.811	0.00	0.00
ATOM	4803	HA	LEU	X	320	21.516	39.587	48.986	0.00	0.00
ATOM	4804	CB	LEU	X	320	23.270	39.348	50.215	0.00	0.00
ATOM	4805	HB2	LEU	X	320	23.654	38.743	51.036	0.00	0.00
ATOM	4806	HB3	LEU	X	320	23.955	39.023	49.431	0.00	0.00
ATOM	4807	CG	LEU	X	320	23.545	40.806	50.428	0.00	0.00
ATOM	4808	HG	LEU	X	320	22.646	41.197	50.904	0.00	0.00
ATOM	4809	CD1	LEU	X	320	24.815	41.076	51.199	0.00	0.00
ATOM	4810	HD11	LEU	X	320	24.905	42.141	51.413	0.00	0.00
ATOM	4811	HD12	LEU	X	320	25.629	40.693	50.583	0.00	0.00
ATOM	4812	HD13	LEU	X	320	24.824	40.629	52.193	0.00	0.00
ATOM	4813	CD2	LEU	X	320	23.585	41.606	49.100	0.00	0.00
ATOM	4814	HD21	LEU	X	320	23.980	42.613	49.236	0.00	0.00
ATOM	4815	HD22	LEU	X	320	24.215	41.177	48.321	0.00	0.00
ATOM	4816	HD23	LEU	X	320	22.578	41.537	48.689	0.00	0.00
ATOM	4817	C	LEU	X	320	21.802	37.501	49.305	0.00	0.00
ATOM	4818	O	LEU	X	320	21.774	36.581	50.130	0.00	0.00
ATOM	4819	N	GLN	X	321	21.986	37.252	47.990	0.00	0.00
ATOM	4820	H	GLN	X	321	22.074	38.019	47.339	0.00	0.00
ATOM	4821	CA	GLN	X	321	22.450	35.986	47.542	0.00	0.00
ATOM	4822	HA	GLN	X	321	22.495	35.224	48.320	0.00	0.00
ATOM	4823	CB	GLN	X	321	21.481	35.286	46.577	0.00	0.00
ATOM	4824	HB2	GLN	X	321	21.720	35.718	45.605	0.00	0.00
ATOM	4825	HB3	GLN	X	321	21.724	34.231	46.454	0.00	0.00
ATOM	4826	CG	GLN	X	321	19.879	35.303	46.783	0.00	0.00
ATOM	4827	HG2	GLN	X	321	19.372	34.850	45.931	0.00	0.00
ATOM	4828	HG3	GLN	X	321	19.649	34.601	47.586	0.00	0.00
ATOM	4829	CD	GLN	X	321	19.204	36.651	46.921	0.00	0.00
ATOM	4830	OE1	GLN	X	321	19.077	37.368	45.918	0.00	0.00
ATOM	4831	NE2	GLN	X	321	18.815	37.083	48.113	0.00	0.00
ATOM	4832	HE21	GLN	X	321	18.186	37.873	48.097	0.00	0.00
ATOM	4833	HE22	GLN	X	321	18.872	36.351	48.807	0.00	0.00
ATOM	4834	C	GLN	X	321	23.819	35.943	46.898	0.00	0.00
ATOM	4835	O	GLN	X	321	24.220	36.858	46.151	0.00	0.00
ATOM	4836	N	VAL	X	322	24.670	35.042	47.403	0.00	0.00
ATOM	4837	H	VAL	X	322	24.391	34.443	48.168	0.00	0.00
ATOM	4838	CA	VAL	X	322	26.065	35.095	47.202	0.00	0.00
ATOM	4839	HA	VAL	X	322	26.192	35.742	46.334	0.00	0.00
ATOM	4840	CB	VAL	X	322	26.887	35.720	48.441	0.00	0.00
ATOM	4841	HB	VAL	X	322	26.843	35.027	49.281	0.00	0.00
ATOM	4842	CG1	VAL	X	322	28.413	35.969	48.189	0.00	0.00
ATOM	4843	HG11	VAL	X	322	28.925	35.009	48.116	0.00	0.00
ATOM	4844	HG12	VAL	X	322	28.608	36.542	47.283	0.00	0.00
ATOM	4845	HG13	VAL	X	322	28.873	36.397	49.080	0.00	0.00
ATOM	4846	CG2	VAL	X	322	26.330	37.086	48.933	0.00	0.00
ATOM	4847	HG21	VAL	X	322	26.916	37.628	49.675	0.00	0.00
ATOM	4848	HG22	VAL	X	322	25.438	36.804	49.493	0.00	0.00
ATOM	4849	HG23	VAL	X	322	26.038	37.772	48.138	0.00	0.00
ATOM	4850	C	VAL	X	322	26.574	33.760	46.787	0.00	0.00
ATOM	4851	O	VAL	X	322	26.115	32.643	47.168	0.00	0.00
ATOM	4852	N	LEU	X	323	27.741	33.740	46.080	0.00	0.00
ATOM	4853	H	LEU	X	323	28.155	34.623	45.817	0.00	0.00
ATOM	4854	CA	LEU	X	323	28.483	32.556	45.589	0.00	0.00
ATOM	4855	HA	LEU	X	323	28.139	31.705	46.176	0.00	0.00
ATOM	4856	CB	LEU	X	323	28.095	32.311	44.013	0.00	0.00
ATOM	4857	HB2	LEU	X	323	27.037	32.572	43.984	0.00	0.00
ATOM	4858	HB3	LEU	X	323	28.628	32.947	43.306	0.00	0.00
ATOM	4859	CG	LEU	X	323	28.187	30.909	43.497	0.00	0.00
ATOM	4860	HG	LEU	X	323	27.789	30.140	44.159	0.00	0.00
ATOM	4861	CD1	LEU	X	323	27.544	30.779	42.022	0.00	0.00
ATOM	4862	HD11	LEU	X	323	27.945	31.485	41.296	0.00	0.00
ATOM	4863	HD12	LEU	X	323	26.459	30.888	42.035	0.00	0.00
ATOM	4864	HD13	LEU	X	323	27.768	29.851	41.496	0.00	0.00
ATOM	4865	CD2	LEU	X	323	29.722	30.556	43.416	0.00	0.00
ATOM	4866	HD21	LEU	X	323	30.239	31.485	43.177	0.00	0.00
ATOM	4867	HD22	LEU	X	323	30.035	30.041	44.325	0.00	0.00
ATOM	4868	HD23	LEU	X	323	29.898	29.858	42.597	0.00	0.00

ATOM	4869	C	LEU	X	323	29.999	32.743	45.805	0.00	0.00
ATOM	4870	O	LEU	X	323	30.648	33.740	45.367	0.00	0.00
ATOM	4871	N	VAL	X	324	30.634	31.788	46.452	0.00	0.00
ATOM	4872	H	VAL	X	324	30.162	30.911	46.625	0.00	0.00
ATOM	4873	CA	VAL	X	324	32.084	31.812	46.828	0.00	0.00
ATOM	4874	HA	VAL	X	324	32.559	32.627	46.282	0.00	0.00
ATOM	4875	CB	VAL	X	324	32.215	32.158	48.341	0.00	0.00
ATOM	4876	HB	VAL	X	324	33.247	32.436	48.557	0.00	0.00
ATOM	4877	CG1	VAL	X	324	31.447	33.414	48.712	0.00	0.00
ATOM	4878	HG11	VAL	X	324	31.575	33.876	49.691	0.00	0.00
ATOM	4879	HG12	VAL	X	324	31.663	34.258	48.057	0.00	0.00
ATOM	4880	HG13	VAL	X	324	30.370	33.247	48.704	0.00	0.00
ATOM	4881	CG2	VAL	X	324	32.103	31.030	49.388	0.00	0.00
ATOM	4882	HG21	VAL	X	324	31.128	30.567	49.237	0.00	0.00
ATOM	4883	HG22	VAL	X	324	32.238	31.314	50.431	0.00	0.00
ATOM	4884	HG23	VAL	X	324	32.852	30.286	49.117	0.00	0.00
ATOM	4885	C	VAL	X	324	32.733	30.456	46.535	0.00	0.00
ATOM	4886	O	VAL	X	324	32.132	29.469	46.892	0.00	0.00
ATOM	4887	N	GLY	X	325	33.943	30.405	45.942	0.00	0.00
ATOM	4888	H	GLY	X	325	34.360	31.278	45.653	0.00	0.00
ATOM	4889	CA	GLY	X	325	34.654	29.152	45.856	0.00	0.00
ATOM	4890	HA2	GLY	X	325	35.063	29.018	46.857	0.00	0.00
ATOM	4891	HA3	GLY	X	325	34.058	28.265	45.641	0.00	0.00
ATOM	4892	C	GLY	X	325	35.897	29.169	44.977	0.00	0.00
ATOM	4893	O	GLY	X	325	36.275	30.248	44.492	0.00	0.00
ATOM	4894	N	VAL	X	326	36.628	28.032	44.856	0.00	0.00
ATOM	4895	H	VAL	X	326	36.154	27.260	45.303	0.00	0.00
ATOM	4896	CA	VAL	X	326	38.107	28.084	44.581	0.00	0.00
ATOM	4897	HA	VAL	X	326	38.378	29.009	44.071	0.00	0.00
ATOM	4898	CB	VAL	X	326	38.968	27.993	45.841	0.00	0.00
ATOM	4899	HB	VAL	X	326	40.006	27.953	45.510	0.00	0.00
ATOM	4900	CG1	VAL	X	326	38.778	29.241	46.738	0.00	0.00
ATOM	4901	HG11	VAL	X	326	38.880	30.155	46.153	0.00	0.00
ATOM	4902	HG12	VAL	X	326	37.868	29.068	47.313	0.00	0.00
ATOM	4903	HG13	VAL	X	326	39.483	29.243	47.570	0.00	0.00
ATOM	4904	CG2	VAL	X	326	38.601	26.746	46.658	0.00	0.00
ATOM	4905	HG21	VAL	X	326	38.601	25.809	46.101	0.00	0.00
ATOM	4906	HG22	VAL	X	326	37.622	26.816	47.134	0.00	0.00
ATOM	4907	HG23	VAL	X	326	39.280	26.611	47.500	0.00	0.00
ATOM	4908	C	VAL	X	326	38.622	26.973	43.664	0.00	0.00
ATOM	4909	O	VAL	X	326	37.909	25.958	43.477	0.00	0.00
ATOM	4910	N	VAL	X	327	39.766	27.140	43.064	0.00	0.00
ATOM	4911	H	VAL	X	327	40.287	27.977	43.285	0.00	0.00
ATOM	4912	CA	VAL	X	327	40.460	26.099	42.339	0.00	0.00
ATOM	4913	HA	VAL	X	327	39.650	25.596	41.811	0.00	0.00
ATOM	4914	CB	VAL	X	327	41.348	26.623	41.236	0.00	0.00
ATOM	4915	HB	VAL	X	327	41.650	25.748	40.660	0.00	0.00
ATOM	4916	CG1	VAL	X	327	40.480	27.433	40.298	0.00	0.00
ATOM	4917	HG11	VAL	X	327	39.813	26.756	39.764	0.00	0.00
ATOM	4918	HG12	VAL	X	327	39.940	28.258	40.762	0.00	0.00
ATOM	4919	HG13	VAL	X	327	41.074	27.945	39.540	0.00	0.00
ATOM	4920	CG2	VAL	X	327	42.549	27.415	41.761	0.00	0.00
ATOM	4921	HG21	VAL	X	327	42.729	27.171	42.807	0.00	0.00
ATOM	4922	HG22	VAL	X	327	42.252	28.463	41.803	0.00	0.00
ATOM	4923	HG23	VAL	X	327	43.476	27.367	41.190	0.00	0.00
ATOM	4924	C	VAL	X	327	41.106	25.114	43.308	0.00	0.00
ATOM	4925	O	VAL	X	327	41.387	25.411	44.546	0.00	0.00
ATOM	4926	N	LYS	X	328	41.504	23.948	42.795	0.00	0.00
ATOM	4927	H	LYS	X	328	41.270	23.742	41.834	0.00	0.00
ATOM	4928	CA	LYS	X	328	42.053	22.931	43.727	0.00	0.00
ATOM	4929	HA	LYS	X	328	41.440	22.966	44.627	0.00	0.00
ATOM	4930	CB	LYS	X	328	41.885	21.489	43.091	0.00	0.00
ATOM	4931	HB2	LYS	X	328	40.806	21.347	43.037	0.00	0.00
ATOM	4932	HB3	LYS	X	328	42.336	21.521	42.099	0.00	0.00
ATOM	4933	CG	LYS	X	328	42.483	20.281	43.874	0.00	0.00
ATOM	4934	HG2	LYS	X	328	43.551	20.425	44.039	0.00	0.00
ATOM	4935	HG3	LYS	X	328	42.044	20.266	44.872	0.00	0.00

ATOM	4936	CD	LYS	X	328	42.236	18.849	43.245	0.00	0.00
ATOM	4937	HD2	LYS	X	328	42.584	18.108	43.964	0.00	0.00
ATOM	4938	HD3	LYS	X	328	41.181	18.577	43.213	0.00	0.00
ATOM	4939	CE	LYS	X	328	42.831	18.652	41.863	0.00	0.00
ATOM	4940	HE2	LYS	X	328	42.766	17.620	41.519	0.00	0.00
ATOM	4941	HE3	LYS	X	328	42.320	19.379	41.231	0.00	0.00
ATOM	4942	NZ	LYS	X	328	44.268	18.895	41.849	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	44.541	19.829	42.121	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	44.698	18.238	42.484	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	44.671	18.615	40.967	0.00	0.00
ATOM	4946	C	LYS	X	328	43.458	23.150	44.329	0.00	0.00
ATOM	4947	O	LYS	X	328	43.805	22.694	45.419	0.00	0.00
ATOM	4948	N	ASP	X	329	44.228	23.958	43.624	0.00	0.00
ATOM	4949	H	ASP	X	329	43.767	24.448	42.870	0.00	0.00
ATOM	4950	CA	ASP	X	329	45.618	24.387	43.944	0.00	0.00
ATOM	4951	HA	ASP	X	329	45.837	24.296	45.008	0.00	0.00
ATOM	4952	CB	ASP	X	329	46.553	23.428	43.122	0.00	0.00
ATOM	4953	HB2	ASP	X	329	46.442	23.696	42.071	0.00	0.00
ATOM	4954	HB3	ASP	X	329	47.603	23.585	43.368	0.00	0.00
ATOM	4955	CG	ASP	X	329	46.275	22.002	43.227	0.00	0.00
ATOM	4956	OD1	ASP	X	329	46.735	21.474	44.313	0.00	0.00
ATOM	4957	OD2	ASP	X	329	45.591	21.406	42.419	0.00	0.00
ATOM	4958	C	ASP	X	329	45.801	25.878	43.540	0.00	0.00
ATOM	4959	O	ASP	X	329	46.344	26.187	42.482	0.00	0.00
ATOM	4960	N	GLU	X	330	45.256	26.751	44.408	0.00	0.00
ATOM	4961	H	GLU	X	330	44.769	26.330	45.186	0.00	0.00
ATOM	4962	CA	GLU	X	330	45.393	28.173	44.222	0.00	0.00
ATOM	4963	HA	GLU	X	330	44.935	28.353	43.249	0.00	0.00
ATOM	4964	CB	GLU	X	330	44.624	28.991	45.377	0.00	0.00
ATOM	4965	HB2	GLU	X	330	45.025	28.638	46.327	0.00	0.00
ATOM	4966	HB3	GLU	X	330	44.770	30.069	45.453	0.00	0.00
ATOM	4967	CG	GLU	X	330	43.082	28.796	45.270	0.00	0.00
ATOM	4968	HG2	GLU	X	330	42.905	27.803	44.857	0.00	0.00
ATOM	4969	HG3	GLU	X	330	42.567	28.919	46.223	0.00	0.00
ATOM	4970	CD	GLU	X	330	42.389	29.628	44.270	0.00	0.00
ATOM	4971	OE1	GLU	X	330	42.988	30.559	43.664	0.00	0.00
ATOM	4972	OE2	GLU	X	330	41.223	29.363	43.874	0.00	0.00
ATOM	4973	C	GLU	X	330	46.853	28.642	44.071	0.00	0.00
ATOM	4974	O	GLU	X	330	47.153	29.291	43.093	0.00	0.00
ATOM	4975	N	GLY	X	331	47.707	28.396	45.124	0.00	0.00
ATOM	4976	H	GLY	X	331	47.343	27.726	45.786	0.00	0.00
ATOM	4977	CA	GLY	X	331	49.069	28.947	45.217	0.00	0.00
ATOM	4978	HA2	GLY	X	331	48.862	29.996	45.006	0.00	0.00
ATOM	4979	HA3	GLY	X	331	49.435	28.799	46.234	0.00	0.00
ATOM	4980	C	GLY	X	331	50.107	28.399	44.252	0.00	0.00
ATOM	4981	O	GLY	X	331	51.103	29.029	43.994	0.00	0.00
ATOM	4982	N	SER	X	332	49.724	27.274	43.573	0.00	0.00
ATOM	4983	H	SER	X	332	48.914	26.767	43.899	0.00	0.00
ATOM	4984	CA	SER	X	332	50.483	26.733	42.431	0.00	0.00
ATOM	4985	HA	SER	X	332	51.427	26.316	42.783	0.00	0.00
ATOM	4986	CB	SER	X	332	49.776	25.533	41.750	0.00	0.00
ATOM	4987	HB2	SER	X	332	50.465	25.257	40.952	0.00	0.00
ATOM	4988	HB3	SER	X	332	49.495	24.813	42.519	0.00	0.00
ATOM	4989	OG	SER	X	332	48.636	25.999	41.039	0.00	0.00
ATOM	4990	HG	SER	X	332	47.856	25.853	41.580	0.00	0.00
ATOM	4991	C	SER	X	332	50.953	27.792	41.425	0.00	0.00
ATOM	4992	O	SER	X	332	52.130	27.994	41.165	0.00	0.00
ATOM	4993	N	TYR	X	333	50.018	28.640	41.026	0.00	0.00
ATOM	4994	H	TYR	X	333	49.060	28.349	41.162	0.00	0.00
ATOM	4995	CA	TYR	X	333	50.276	29.528	39.898	0.00	0.00
ATOM	4996	HA	TYR	X	333	50.594	28.952	39.030	0.00	0.00
ATOM	4997	CB	TYR	X	333	48.867	30.052	39.541	0.00	0.00
ATOM	4998	HB2	TYR	X	333	48.061	29.319	39.510	0.00	0.00
ATOM	4999	HB3	TYR	X	333	48.604	30.762	40.326	0.00	0.00
ATOM	5000	CG	TYR	X	333	48.882	30.885	38.212	0.00	0.00
ATOM	5001	CD1	TYR	X	333	48.625	30.213	36.977	0.00	0.00
ATOM	5002	HD1	TYR	X	333	48.468	29.152	37.102	0.00	0.00

ATOM	5003	CE1	TYR	X	333	48.801	30.921	35.759	0.00	0.00
ATOM	5004	HE1	TYR	X	333	48.689	30.435	34.801	0.00	0.00
ATOM	5005	CZ	TYR	X	333	49.174	32.314	35.685	0.00	0.00
ATOM	5006	OH	TYR	X	333	49.404	32.908	34.490	0.00	0.00
ATOM	5007	HH	TYR	X	333	49.321	32.331	33.727	0.00	0.00
ATOM	5008	CE2	TYR	X	333	49.307	32.990	36.932	0.00	0.00
ATOM	5009	HE2	TYR	X	333	49.549	34.041	36.996	0.00	0.00
ATOM	5010	CD2	TYR	X	333	49.268	32.291	38.168	0.00	0.00
ATOM	5011	HD2	TYR	X	333	49.504	32.799	39.092	0.00	0.00
ATOM	5012	C	TYR	X	333	51.228	30.699	40.100	0.00	0.00
ATOM	5013	O	TYR	X	333	51.901	31.178	39.166	0.00	0.00
ATOM	5014	N	PHE	X	334	51.335	31.039	41.405	0.00	0.00
ATOM	5015	H	PHE	X	334	50.775	30.519	42.065	0.00	0.00
ATOM	5016	CA	PHE	X	334	52.239	32.080	41.943	0.00	0.00
ATOM	5017	HA	PHE	X	334	52.443	32.839	41.188	0.00	0.00
ATOM	5018	CB	PHE	X	334	51.560	32.817	43.095	0.00	0.00
ATOM	5019	HB2	PHE	X	334	51.225	32.064	43.809	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.212	33.398	43.747	0.00	0.00
ATOM	5021	CG	PHE	X	334	50.374	33.632	42.617	0.00	0.00
ATOM	5022	CD1	PHE	X	334	49.100	33.057	42.672	0.00	0.00
ATOM	5023	HD1	PHE	X	334	48.928	32.114	43.170	0.00	0.00
ATOM	5024	CE1	PHE	X	334	48.040	33.735	42.045	0.00	0.00
ATOM	5025	HE1	PHE	X	334	47.062	33.293	42.167	0.00	0.00
ATOM	5026	CZ	PHE	X	334	48.228	34.915	41.249	0.00	0.00
ATOM	5027	HZ	PHE	X	334	47.378	35.448	40.849	0.00	0.00
ATOM	5028	CE2	PHE	X	334	49.567	35.420	41.240	0.00	0.00
ATOM	5029	HE2	PHE	X	334	49.662	36.433	40.876	0.00	0.00
ATOM	5030	CD2	PHE	X	334	50.604	34.849	41.923	0.00	0.00
ATOM	5031	HD2	PHE	X	334	51.561	35.342	41.838	0.00	0.00
ATOM	5032	C	PHE	X	334	53.605	31.431	42.394	0.00	0.00
ATOM	5033	O	PHE	X	334	54.618	32.110	42.304	0.00	0.00
ATOM	5034	N	LEU	X	335	53.640	30.129	42.709	0.00	0.00
ATOM	5035	H	LEU	X	335	52.788	29.621	42.898	0.00	0.00
ATOM	5036	CA	LEU	X	335	54.912	29.439	43.001	0.00	0.00
ATOM	5037	HA	LEU	X	335	55.498	29.975	43.748	0.00	0.00
ATOM	5038	CB	LEU	X	335	54.617	28.053	43.546	0.00	0.00
ATOM	5039	HB2	LEU	X	335	53.832	27.604	42.938	0.00	0.00
ATOM	5040	HB3	LEU	X	335	55.504	27.445	43.370	0.00	0.00
ATOM	5041	CG	LEU	X	335	54.284	27.936	45.096	0.00	0.00
ATOM	5042	HG	LEU	X	335	53.521	28.665	45.368	0.00	0.00
ATOM	5043	CD1	LEU	X	335	53.815	26.584	45.527	0.00	0.00
ATOM	5044	HD11	LEU	X	335	53.485	26.631	46.565	0.00	0.00
ATOM	5045	HD12	LEU	X	335	54.526	25.793	45.292	0.00	0.00
ATOM	5046	HD13	LEU	X	335	53.026	26.294	44.834	0.00	0.00
ATOM	5047	CD2	LEU	X	335	55.466	28.292	45.998	0.00	0.00
ATOM	5048	HD21	LEU	X	335	55.567	29.357	45.789	0.00	0.00
ATOM	5049	HD22	LEU	X	335	55.244	28.110	47.049	0.00	0.00
ATOM	5050	HD23	LEU	X	335	56.363	27.693	45.840	0.00	0.00
ATOM	5051	C	LEU	X	335	55.862	29.391	41.770	0.00	0.00
ATOM	5052	O	LEU	X	335	57.009	29.798	41.912	0.00	0.00
ATOM	5053	N	VAL	X	336	55.418	28.857	40.651	0.00	0.00
ATOM	5054	H	VAL	X	336	54.490	28.466	40.740	0.00	0.00
ATOM	5055	CA	VAL	X	336	56.143	28.825	39.384	0.00	0.00
ATOM	5056	HA	VAL	X	336	57.060	28.236	39.402	0.00	0.00
ATOM	5057	CB	VAL	X	336	55.335	28.180	38.215	0.00	0.00
ATOM	5058	HB	VAL	X	336	55.891	28.538	37.349	0.00	0.00
ATOM	5059	CG1	VAL	X	336	55.330	26.660	38.062	0.00	0.00
ATOM	5060	HG11	VAL	X	336	56.346	26.266	38.044	0.00	0.00
ATOM	5061	HG12	VAL	X	336	54.899	26.335	39.010	0.00	0.00
ATOM	5062	HG13	VAL	X	336	54.807	26.316	37.170	0.00	0.00
ATOM	5063	CG2	VAL	X	336	53.909	28.612	38.164	0.00	0.00
ATOM	5064	HG21	VAL	X	336	53.382	28.174	37.317	0.00	0.00
ATOM	5065	HG22	VAL	X	336	53.908	29.677	37.932	0.00	0.00
ATOM	5066	HG23	VAL	X	336	53.369	28.323	39.066	0.00	0.00
ATOM	5067	C	VAL	X	336	56.603	30.300	38.966	0.00	0.00
ATOM	5068	O	VAL	X	336	57.667	30.507	38.381	0.00	0.00
ATOM	5069	N	TYR	X	337	55.771	31.297	39.399	0.00	0.00

ATOM	5070	H	TYR	X	337	54.865	30.982	39.715	0.00	0.00
ATOM	5071	CA	TYR	X	337	55.912	32.723	39.085	0.00	0.00
ATOM	5072	HA	TYR	X	337	56.443	32.765	38.134	0.00	0.00
ATOM	5073	CB	TYR	X	337	54.560	33.401	38.824	0.00	0.00
ATOM	5074	HB2	TYR	X	337	53.741	32.699	38.981	0.00	0.00
ATOM	5075	HB3	TYR	X	337	54.430	34.174	39.581	0.00	0.00
ATOM	5076	CG	TYR	X	337	54.346	33.955	37.444	0.00	0.00
ATOM	5077	CD1	TYR	X	337	55.006	35.119	37.054	0.00	0.00
ATOM	5078	HD1	TYR	X	337	55.689	35.680	37.675	0.00	0.00
ATOM	5079	CE1	TYR	X	337	54.807	35.540	35.674	0.00	0.00
ATOM	5080	HE1	TYR	X	337	55.352	36.390	35.289	0.00	0.00
ATOM	5081	CZ	TYR	X	337	53.893	34.906	34.859	0.00	0.00
ATOM	5082	OH	TYR	X	337	53.787	35.302	33.559	0.00	0.00
ATOM	5083	HH	TYR	X	337	54.283	36.117	33.457	0.00	0.00
ATOM	5084	CE2	TYR	X	337	53.319	33.685	35.260	0.00	0.00
ATOM	5085	HE2	TYR	X	337	52.574	33.233	34.622	0.00	0.00
ATOM	5086	CD2	TYR	X	337	53.450	33.258	36.575	0.00	0.00
ATOM	5087	HD2	TYR	X	337	52.888	32.361	36.790	0.00	0.00
ATOM	5088	C	TYR	X	337	56.818	33.526	40.058	0.00	0.00
ATOM	5089	O	TYR	X	337	57.323	34.628	39.633	0.00	0.00
ATOM	5090	N	GLY	X	338	57.192	33.100	41.226	0.00	0.00
ATOM	5091	H	GLY	X	338	56.834	32.216	41.558	0.00	0.00
ATOM	5092	CA	GLY	X	338	57.793	34.003	42.133	0.00	0.00
ATOM	5093	HA2	GLY	X	338	58.675	34.444	41.666	0.00	0.00
ATOM	5094	HA3	GLY	X	338	57.113	34.818	42.378	0.00	0.00
ATOM	5095	C	GLY	X	338	58.343	33.532	43.494	0.00	0.00
ATOM	5096	O	GLY	X	338	58.631	34.369	44.399	0.00	0.00
ATOM	5097	N	ALA	X	339	58.491	32.238	43.563	0.00	0.00
ATOM	5098	H	ALA	X	339	58.298	31.652	42.764	0.00	0.00
ATOM	5099	CA	ALA	X	339	59.025	31.592	44.729	0.00	0.00
ATOM	5100	HA	ALA	X	339	59.269	32.375	45.447	0.00	0.00
ATOM	5101	CB	ALA	X	339	57.988	30.603	45.202	0.00	0.00
ATOM	5102	HB1	ALA	X	339	57.059	31.113	45.458	0.00	0.00
ATOM	5103	HB2	ALA	X	339	58.371	30.195	46.137	0.00	0.00
ATOM	5104	HB3	ALA	X	339	57.857	29.823	44.452	0.00	0.00
ATOM	5105	C	ALA	X	339	60.412	30.872	44.508	0.00	0.00
ATOM	5106	O	ALA	X	339	60.608	30.455	43.393	0.00	0.00
ATOM	5107	N	PRO	X	340	61.348	30.894	45.482	0.00	0.00
ATOM	5108	CD	PRO	X	340	61.168	31.397	46.868	0.00	0.00
ATOM	5109	HD2	PRO	X	340	60.277	31.027	47.375	0.00	0.00
ATOM	5110	HD3	PRO	X	340	61.232	32.484	46.821	0.00	0.00
ATOM	5111	CG	PRO	X	340	62.414	30.850	47.615	0.00	0.00
ATOM	5112	HG2	PRO	X	340	62.127	29.912	48.091	0.00	0.00
ATOM	5113	HG3	PRO	X	340	62.691	31.606	48.349	0.00	0.00
ATOM	5114	CB	PRO	X	340	63.410	30.760	46.518	0.00	0.00
ATOM	5115	HB2	PRO	X	340	64.291	30.261	46.921	0.00	0.00
ATOM	5116	HB3	PRO	X	340	63.819	31.721	46.205	0.00	0.00
ATOM	5117	CA	PRO	X	340	62.704	30.324	45.231	0.00	0.00
ATOM	5118	HA	PRO	X	340	63.157	30.788	44.354	0.00	0.00
ATOM	5119	C	PRO	X	340	62.687	28.773	44.966	0.00	0.00
ATOM	5120	O	PRO	X	340	62.038	28.052	45.768	0.00	0.00
ATOM	5121	N	GLY	X	341	63.439	28.249	43.982	0.00	0.00
ATOM	5122	H	GLY	X	341	63.947	28.870	43.369	0.00	0.00
ATOM	5123	CA	GLY	X	341	63.529	26.840	43.677	0.00	0.00
ATOM	5124	HA2	GLY	X	341	64.445	26.539	43.169	0.00	0.00
ATOM	5125	HA3	GLY	X	341	63.540	26.280	44.612	0.00	0.00
ATOM	5126	C	GLY	X	341	62.435	26.374	42.723	0.00	0.00
ATOM	5127	O	GLY	X	341	62.328	25.161	42.463	0.00	0.00
ATOM	5128	N	PHE	X	342	61.633	27.432	42.265	0.00	0.00
ATOM	5129	H	PHE	X	342	61.803	28.322	42.711	0.00	0.00
ATOM	5130	CA	PHE	X	342	60.462	27.147	41.432	0.00	0.00
ATOM	5131	HA	PHE	X	342	60.453	26.068	41.284	0.00	0.00
ATOM	5132	CB	PHE	X	342	59.212	27.478	42.245	0.00	0.00
ATOM	5133	HB2	PHE	X	342	59.343	28.407	42.801	0.00	0.00
ATOM	5134	HB3	PHE	X	342	58.414	27.585	41.510	0.00	0.00
ATOM	5135	CG	PHE	X	342	58.820	26.398	43.256	0.00	0.00
ATOM	5136	CD1	PHE	X	342	57.936	25.446	42.784	0.00	0.00

ATOM	5137	HD1	PHE	X	342	57.640	25.364	41.749	0.00	0.00
ATOM	5138	CE1	PHE	X	342	57.474	24.450	43.626	0.00	0.00
ATOM	5139	HE1	PHE	X	342	56.952	23.614	43.184	0.00	0.00
ATOM	5140	CZ	PHE	X	342	57.695	24.535	45.051	0.00	0.00
ATOM	5141	HZ	PHE	X	342	57.275	23.840	45.762	0.00	0.00
ATOM	5142	CE2	PHE	X	342	58.504	25.584	45.545	0.00	0.00
ATOM	5143	HE2	PHE	X	342	58.606	25.806	46.597	0.00	0.00
ATOM	5144	CD2	PHE	X	342	59.121	26.508	44.672	0.00	0.00
ATOM	5145	HD2	PHE	X	342	59.664	27.374	45.019	0.00	0.00
ATOM	5146	C	PHE	X	342	60.586	27.782	40.057	0.00	0.00
ATOM	5147	O	PHE	X	342	60.914	28.944	39.960	0.00	0.00
ATOM	5148	N	SER	X	343	59.989	27.072	39.049	0.00	0.00
ATOM	5149	H	SER	X	343	59.870	26.070	39.095	0.00	0.00
ATOM	5150	CA	SER	X	343	59.513	27.600	37.725	0.00	0.00
ATOM	5151	HA	SER	X	343	58.728	28.329	37.925	0.00	0.00
ATOM	5152	CB	SER	X	343	60.712	28.097	36.832	0.00	0.00
ATOM	5153	HB2	SER	X	343	61.156	29.040	37.152	0.00	0.00
ATOM	5154	HB3	SER	X	343	61.513	27.366	36.947	0.00	0.00
ATOM	5155	OG	SER	X	343	60.380	28.131	35.464	0.00	0.00
ATOM	5156	HG	SER	X	343	61.134	28.515	35.012	0.00	0.00
ATOM	5157	C	SER	X	343	58.840	26.436	37.037	0.00	0.00
ATOM	5158	O	SER	X	343	59.218	25.265	37.311	0.00	0.00
ATOM	5159	N	LYS	X	344	57.952	26.760	36.114	0.00	0.00
ATOM	5160	H	LYS	X	344	57.845	27.741	35.895	0.00	0.00
ATOM	5161	CA	LYS	X	344	57.377	25.715	35.255	0.00	0.00
ATOM	5162	HA	LYS	X	344	57.070	24.971	35.990	0.00	0.00
ATOM	5163	CB	LYS	X	344	56.194	26.309	34.405	0.00	0.00
ATOM	5164	HB2	LYS	X	344	55.760	25.497	33.821	0.00	0.00
ATOM	5165	HB3	LYS	X	344	55.478	26.679	35.139	0.00	0.00
ATOM	5166	CG	LYS	X	344	56.714	27.423	33.462	0.00	0.00
ATOM	5167	HG2	LYS	X	344	56.612	28.388	33.959	0.00	0.00
ATOM	5168	HG3	LYS	X	344	57.752	27.203	33.211	0.00	0.00
ATOM	5169	CD	LYS	X	344	55.868	27.440	32.248	0.00	0.00
ATOM	5170	HD2	LYS	X	344	55.748	26.427	31.865	0.00	0.00
ATOM	5171	HD3	LYS	X	344	54.890	27.715	32.643	0.00	0.00
ATOM	5172	CE	LYS	X	344	56.180	28.632	31.250	0.00	0.00
ATOM	5173	HE2	LYS	X	344	55.238	28.686	30.702	0.00	0.00
ATOM	5174	HE3	LYS	X	344	56.287	29.587	31.764	0.00	0.00
ATOM	5175	NZ	LYS	X	344	57.400	28.382	30.395	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	57.346	27.498	29.909	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	57.563	28.956	29.580	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	58.261	28.305	30.916	0.00	0.00
ATOM	5179	C	LYS	X	344	58.388	24.940	34.492	0.00	0.00
ATOM	5180	O	LYS	X	344	58.123	23.779	34.224	0.00	0.00
ATOM	5181	N	ASP	X	345	59.573	25.463	34.243	0.00	0.00
ATOM	5182	H	ASP	X	345	59.702	26.448	34.423	0.00	0.00
ATOM	5183	CA	ASP	X	345	60.655	24.824	33.449	0.00	0.00
ATOM	5184	HA	ASP	X	345	60.350	24.068	32.726	0.00	0.00
ATOM	5185	CB	ASP	X	345	61.357	25.984	32.676	0.00	0.00
ATOM	5186	HB2	ASP	X	345	61.593	26.708	33.456	0.00	0.00
ATOM	5187	HB3	ASP	X	345	62.226	25.573	32.163	0.00	0.00
ATOM	5188	CG	ASP	X	345	60.406	26.745	31.634	0.00	0.00
ATOM	5189	OD1	ASP	X	345	60.005	27.882	31.826	0.00	0.00
ATOM	5190	OD2	ASP	X	345	60.135	26.014	30.650	0.00	0.00
ATOM	5191	C	ASP	X	345	61.716	24.060	34.258	0.00	0.00
ATOM	5192	O	ASP	X	345	62.691	23.597	33.703	0.00	0.00
ATOM	5193	N	ASN	X	346	61.577	24.085	35.589	0.00	0.00
ATOM	5194	H	ASN	X	346	60.708	24.468	35.934	0.00	0.00
ATOM	5195	CA	ASN	X	346	62.360	23.496	36.652	0.00	0.00
ATOM	5196	HA	ASN	X	346	63.308	23.119	36.269	0.00	0.00
ATOM	5197	CB	ASN	X	346	62.459	24.590	37.714	0.00	0.00
ATOM	5198	HB2	ASN	X	346	62.639	25.552	37.235	0.00	0.00
ATOM	5199	HB3	ASN	X	346	61.459	24.745	38.121	0.00	0.00
ATOM	5200	CG	ASN	X	346	63.442	24.192	38.831	0.00	0.00
ATOM	5201	OD1	ASN	X	346	63.122	23.422	39.712	0.00	0.00
ATOM	5202	ND2	ASN	X	346	64.571	24.790	38.771	0.00	0.00
ATOM	5203	HD21	ASN	X	346	65.259	24.663	39.499	0.00	0.00

ATOM	5204	HD22	ASN	X	346	64.647	25.479	38.036	0.00	0.00
ATOM	5205	C	ASN	X	346	61.561	22.322	37.293	0.00	0.00
ATOM	5206	O	ASN	X	346	60.313	22.323	37.413	0.00	0.00
ATOM	5207	N	GLU	X	347	62.351	21.324	37.822	0.00	0.00
ATOM	5208	H	GLU	X	347	63.357	21.330	37.731	0.00	0.00
ATOM	5209	CA	GLU	X	347	61.774	20.134	38.379	0.00	0.00
ATOM	5210	HA	GLU	X	347	61.123	19.705	37.617	0.00	0.00
ATOM	5211	CB	GLU	X	347	62.932	19.137	38.744	0.00	0.00
ATOM	5212	HB2	GLU	X	347	63.666	19.114	37.938	0.00	0.00
ATOM	5213	HB3	GLU	X	347	63.565	19.558	39.525	0.00	0.00
ATOM	5214	CG	GLU	X	347	62.493	17.757	39.175	0.00	0.00
ATOM	5215	HG2	GLU	X	347	63.306	17.181	39.616	0.00	0.00
ATOM	5216	HG3	GLU	X	347	61.734	17.880	39.947	0.00	0.00
ATOM	5217	CD	GLU	X	347	61.975	16.844	37.979	0.00	0.00
ATOM	5218	OE1	GLU	X	347	60.759	16.585	37.892	0.00	0.00
ATOM	5219	OE2	GLU	X	347	62.774	16.551	37.010	0.00	0.00
ATOM	5220	C	GLU	X	347	60.854	20.463	39.548	0.00	0.00
ATOM	5221	O	GLU	X	347	59.858	19.831	39.808	0.00	0.00
ATOM	5222	N	SER	X	348	61.279	21.331	40.459	0.00	0.00
ATOM	5223	H	SER	X	348	62.099	21.873	40.226	0.00	0.00
ATOM	5224	CA	SER	X	348	60.493	22.008	41.494	0.00	0.00
ATOM	5225	HA	SER	X	348	60.962	22.956	41.758	0.00	0.00
ATOM	5226	CB	SER	X	348	59.167	22.496	40.866	0.00	0.00
ATOM	5227	HB2	SER	X	348	58.646	21.754	40.260	0.00	0.00
ATOM	5228	HB3	SER	X	348	58.595	22.933	41.684	0.00	0.00
ATOM	5229	OG	SER	X	348	59.580	23.607	40.005	0.00	0.00
ATOM	5230	HG	SER	X	348	59.681	23.387	39.076	0.00	0.00
ATOM	5231	C	SER	X	348	60.259	21.156	42.826	0.00	0.00
ATOM	5232	O	SER	X	348	59.715	21.680	43.782	0.00	0.00
ATOM	5233	N	LEU	X	349	60.962	19.983	42.827	0.00	0.00
ATOM	5234	H	LEU	X	349	61.370	19.675	41.956	0.00	0.00
ATOM	5235	CA	LEU	X	349	61.023	18.998	43.946	0.00	0.00
ATOM	5236	HA	LEU	X	349	60.158	19.015	44.609	0.00	0.00
ATOM	5237	CB	LEU	X	349	61.290	17.591	43.459	0.00	0.00
ATOM	5238	HB2	LEU	X	349	62.015	17.560	42.646	0.00	0.00
ATOM	5239	HB3	LEU	X	349	61.625	17.070	44.356	0.00	0.00
ATOM	5240	CG	LEU	X	349	59.998	16.910	42.940	0.00	0.00
ATOM	5241	HG	LEU	X	349	59.716	17.551	42.104	0.00	0.00
ATOM	5242	CD1	LEU	X	349	60.363	15.551	42.397	0.00	0.00
ATOM	5243	HD11	LEU	X	349	61.133	15.490	41.629	0.00	0.00
ATOM	5244	HD12	LEU	X	349	59.545	15.086	41.847	0.00	0.00
ATOM	5245	HD13	LEU	X	349	60.797	14.989	43.224	0.00	0.00
ATOM	5246	CD2	LEU	X	349	58.776	16.928	43.859	0.00	0.00
ATOM	5247	HD21	LEU	X	349	58.383	17.940	43.957	0.00	0.00
ATOM	5248	HD22	LEU	X	349	57.930	16.317	43.546	0.00	0.00
ATOM	5249	HD23	LEU	X	349	59.235	16.709	44.823	0.00	0.00
ATOM	5250	C	LEU	X	349	62.087	19.574	44.845	0.00	0.00
ATOM	5251	O	LEU	X	349	63.170	19.035	44.843	0.00	0.00
ATOM	5252	N	ILE	X	350	61.786	20.720	45.431	0.00	0.00
ATOM	5253	H	ILE	X	350	60.876	21.095	45.203	0.00	0.00
ATOM	5254	CA	ILE	X	350	62.620	21.522	46.390	0.00	0.00
ATOM	5255	HA	ILE	X	350	63.536	21.899	45.935	0.00	0.00
ATOM	5256	CB	ILE	X	350	61.767	22.688	46.907	0.00	0.00
ATOM	5257	HB	ILE	X	350	62.423	23.229	47.589	0.00	0.00
ATOM	5258	CG2	ILE	X	350	61.504	23.831	45.866	0.00	0.00
ATOM	5259	HG21	ILE	X	350	62.405	23.971	45.268	0.00	0.00
ATOM	5260	HG22	ILE	X	350	61.134	24.749	46.324	0.00	0.00
ATOM	5261	HG23	ILE	X	350	60.657	23.481	45.276	0.00	0.00
ATOM	5262	CG1	ILE	X	350	60.441	22.318	47.685	0.00	0.00
ATOM	5263	HG12	ILE	X	350	59.731	21.877	46.986	0.00	0.00
ATOM	5264	HG13	ILE	X	350	60.646	21.523	48.402	0.00	0.00
ATOM	5265	CD1	ILE	X	350	59.764	23.478	48.412	0.00	0.00
ATOM	5266	HD11	ILE	X	350	60.428	23.805	49.212	0.00	0.00
ATOM	5267	HD12	ILE	X	350	58.872	23.062	48.880	0.00	0.00
ATOM	5268	HD13	ILE	X	350	59.538	24.340	47.783	0.00	0.00
ATOM	5269	C	ILE	X	350	63.193	20.824	47.622	0.00	0.00
ATOM	5270	O	ILE	X	350	62.624	19.794	48.082	0.00	0.00

ATOM	5271	N	SER	X	351	64.170	21.438	48.293	0.00	0.00
ATOM	5272	H	SER	X	351	64.622	22.242	47.882	0.00	0.00
ATOM	5273	CA	SER	X	351	64.769	20.921	49.543	0.00	0.00
ATOM	5274	HA	SER	X	351	64.616	19.848	49.652	0.00	0.00
ATOM	5275	CB	SER	X	351	66.279	21.241	49.379	0.00	0.00
ATOM	5276	HB2	SER	X	351	66.833	20.864	50.238	0.00	0.00
ATOM	5277	HB3	SER	X	351	66.628	20.754	48.468	0.00	0.00
ATOM	5278	OG	SER	X	351	66.556	22.630	49.202	0.00	0.00
ATOM	5279	HG	SER	X	351	66.206	22.820	48.328	0.00	0.00
ATOM	5280	C	SER	X	351	64.202	21.744	50.726	0.00	0.00
ATOM	5281	O	SER	X	351	63.645	22.862	50.564	0.00	0.00
ATOM	5282	N	ARG	X	352	64.458	21.299	51.927	0.00	0.00
ATOM	5283	H	ARG	X	352	64.977	20.437	52.020	0.00	0.00
ATOM	5284	CA	ARG	X	352	63.822	21.794	53.175	0.00	0.00
ATOM	5285	HA	ARG	X	352	62.745	21.860	53.021	0.00	0.00
ATOM	5286	CB	ARG	X	352	64.204	20.842	54.281	0.00	0.00
ATOM	5287	HB2	ARG	X	352	63.886	19.844	53.979	0.00	0.00
ATOM	5288	HB3	ARG	X	352	65.293	20.801	54.315	0.00	0.00
ATOM	5289	CG	ARG	X	352	63.594	21.248	55.629	0.00	0.00
ATOM	5290	HG2	ARG	X	352	63.986	20.628	56.435	0.00	0.00
ATOM	5291	HG3	ARG	X	352	63.799	22.311	55.753	0.00	0.00
ATOM	5292	CD	ARG	X	352	62.077	21.140	55.699	0.00	0.00
ATOM	5293	HD2	ARG	X	352	61.691	21.757	54.887	0.00	0.00
ATOM	5294	HD3	ARG	X	352	61.770	20.096	55.634	0.00	0.00
ATOM	5295	NE	ARG	X	352	61.623	21.661	57.027	0.00	0.00
ATOM	5296	HE	ARG	X	352	62.218	22.212	57.629	0.00	0.00
ATOM	5297	CZ	ARG	X	352	60.447	21.498	57.577	0.00	0.00
ATOM	5298	NH1	ARG	X	352	59.482	20.695	57.115	0.00	0.00
ATOM	5299	HH11	ARG	X	352	59.645	20.097	56.317	0.00	0.00
ATOM	5300	HH12	ARG	X	352	58.665	20.568	57.695	0.00	0.00
ATOM	5301	NH2	ARG	X	352	60.177	22.018	58.771	0.00	0.00
ATOM	5302	HH21	ARG	X	352	60.809	22.702	59.161	0.00	0.00
ATOM	5303	HH22	ARG	X	352	59.462	21.601	59.350	0.00	0.00
ATOM	5304	C	ARG	X	352	64.274	23.294	53.354	0.00	0.00
ATOM	5305	O	ARG	X	352	63.456	24.049	53.846	0.00	0.00
ATOM	5306	N	ALA	X	353	65.451	23.734	52.913	0.00	0.00
ATOM	5307	H	ALA	X	353	66.156	23.074	52.617	0.00	0.00
ATOM	5308	CA	ALA	X	353	65.701	25.157	53.039	0.00	0.00
ATOM	5309	HA	ALA	X	353	65.531	25.435	54.079	0.00	0.00
ATOM	5310	CB	ALA	X	353	67.221	25.474	52.723	0.00	0.00
ATOM	5311	HB1	ALA	X	353	67.424	26.542	52.802	0.00	0.00
ATOM	5312	HB2	ALA	X	353	67.381	25.184	51.684	0.00	0.00
ATOM	5313	HB3	ALA	X	353	67.934	24.929	53.342	0.00	0.00
ATOM	5314	C	ALA	X	353	64.880	26.048	52.135	0.00	0.00
ATOM	5315	O	ALA	X	353	64.610	27.200	52.477	0.00	0.00
ATOM	5316	N	GLU	X	354	64.623	25.536	50.877	0.00	0.00
ATOM	5317	H	GLU	X	354	64.920	24.576	50.773	0.00	0.00
ATOM	5318	CA	GLU	X	354	63.842	26.273	49.806	0.00	0.00
ATOM	5319	HA	GLU	X	354	64.211	27.299	49.809	0.00	0.00
ATOM	5320	CB	GLU	X	354	63.959	25.642	48.375	0.00	0.00
ATOM	5321	HB2	GLU	X	354	63.605	24.612	48.356	0.00	0.00
ATOM	5322	HB3	GLU	X	354	63.307	26.149	47.664	0.00	0.00
ATOM	5323	CG	GLU	X	354	65.428	25.652	47.924	0.00	0.00
ATOM	5324	HG2	GLU	X	354	65.722	26.661	47.635	0.00	0.00
ATOM	5325	HG3	GLU	X	354	66.083	25.271	48.708	0.00	0.00
ATOM	5326	CD	GLU	X	354	65.683	24.751	46.714	0.00	0.00
ATOM	5327	OE1	GLU	X	354	65.482	23.516	46.848	0.00	0.00
ATOM	5328	OE2	GLU	X	354	66.208	25.270	45.693	0.00	0.00
ATOM	5329	C	GLU	X	354	62.362	26.293	50.202	0.00	0.00
ATOM	5330	O	GLU	X	354	61.760	27.330	50.056	0.00	0.00
ATOM	5331	N	PHE	X	355	61.785	25.262	50.825	0.00	0.00
ATOM	5332	H	PHE	X	355	62.262	24.377	50.925	0.00	0.00
ATOM	5333	CA	PHE	X	355	60.459	25.353	51.472	0.00	0.00
ATOM	5334	HA	PHE	X	355	59.694	25.629	50.747	0.00	0.00
ATOM	5335	CB	PHE	X	355	60.248	23.939	52.059	0.00	0.00
ATOM	5336	HB2	PHE	X	355	59.984	23.241	51.264	0.00	0.00
ATOM	5337	HB3	PHE	X	355	61.111	23.488	52.549	0.00	0.00

ATOM	5338	CG	PHE	X	355	59.087	23.933	52.957	0.00	0.00
ATOM	5339	CD1	PHE	X	355	57.795	23.716	52.531	0.00	0.00
ATOM	5340	HD1	PHE	X	355	57.511	23.625	51.493	0.00	0.00
ATOM	5341	CE1	PHE	X	355	56.695	23.601	53.340	0.00	0.00
ATOM	5342	HE1	PHE	X	355	55.699	23.477	52.942	0.00	0.00
ATOM	5343	CZ	PHE	X	355	56.909	23.606	54.706	0.00	0.00
ATOM	5344	HZ	PHE	X	355	56.117	23.507	55.433	0.00	0.00
ATOM	5345	CE2	PHE	X	355	58.212	23.728	55.235	0.00	0.00
ATOM	5346	HE2	PHE	X	355	58.357	23.549	56.290	0.00	0.00
ATOM	5347	CD2	PHE	X	355	59.335	23.826	54.365	0.00	0.00
ATOM	5348	HD2	PHE	X	355	60.323	23.854	54.801	0.00	0.00
ATOM	5349	C	PHE	X	355	60.403	26.456	52.563	0.00	0.00
ATOM	5350	O	PHE	X	355	59.410	27.108	52.506	0.00	0.00
ATOM	5351	N	LEU	X	356	61.402	26.704	53.404	0.00	0.00
ATOM	5352	H	LEU	X	356	62.231	26.137	53.290	0.00	0.00
ATOM	5353	CA	LEU	X	356	61.479	27.785	54.335	0.00	0.00
ATOM	5354	HA	LEU	X	356	60.534	27.674	54.865	0.00	0.00
ATOM	5355	CB	LEU	X	356	62.742	27.523	55.160	0.00	0.00
ATOM	5356	HB2	LEU	X	356	62.526	26.512	55.504	0.00	0.00
ATOM	5357	HB3	LEU	X	356	63.615	27.689	54.529	0.00	0.00
ATOM	5358	CG	LEU	X	356	62.963	28.286	56.527	0.00	0.00
ATOM	5359	HG	LEU	X	356	63.836	27.830	56.995	0.00	0.00
ATOM	5360	CD1	LEU	X	356	63.246	29.826	56.333	0.00	0.00
ATOM	5361	HD11	LEU	X	356	62.458	30.303	55.750	0.00	0.00
ATOM	5362	HD12	LEU	X	356	64.105	29.990	55.681	0.00	0.00
ATOM	5363	HD13	LEU	X	356	63.306	30.351	57.286	0.00	0.00
ATOM	5364	CD2	LEU	X	356	61.721	28.017	57.404	0.00	0.00
ATOM	5365	HD21	LEU	X	356	61.701	26.992	57.776	0.00	0.00
ATOM	5366	HD22	LEU	X	356	61.806	28.725	58.228	0.00	0.00
ATOM	5367	HD23	LEU	X	356	60.780	28.437	57.050	0.00	0.00
ATOM	5368	C	LEU	X	356	61.419	29.180	53.642	0.00	0.00
ATOM	5369	O	LEU	X	356	60.522	29.977	53.904	0.00	0.00
ATOM	5370	N	ALA	X	357	62.326	29.434	52.711	0.00	0.00
ATOM	5371	H	ALA	X	357	63.036	28.729	52.574	0.00	0.00
ATOM	5372	CA	ALA	X	357	62.301	30.694	51.919	0.00	0.00
ATOM	5373	HA	ALA	X	357	62.480	31.604	52.491	0.00	0.00
ATOM	5374	CB	ALA	X	357	63.477	30.592	50.949	0.00	0.00
ATOM	5375	HB1	ALA	X	357	64.441	30.847	51.389	0.00	0.00
ATOM	5376	HB2	ALA	X	357	63.515	31.408	50.228	0.00	0.00
ATOM	5377	HB3	ALA	X	357	63.477	29.766	50.238	0.00	0.00
ATOM	5378	C	ALA	X	357	60.997	30.924	51.190	0.00	0.00
ATOM	5379	O	ALA	X	357	60.539	32.055	51.045	0.00	0.00
ATOM	5380	N	GLY	X	358	60.337	29.879	50.728	0.00	0.00
ATOM	5381	H	GLY	X	358	60.863	29.031	50.566	0.00	0.00
ATOM	5382	CA	GLY	X	358	58.963	29.884	50.231	0.00	0.00
ATOM	5383	HA2	GLY	X	358	58.863	30.554	49.377	0.00	0.00
ATOM	5384	HA3	GLY	X	358	58.651	28.892	49.902	0.00	0.00
ATOM	5385	C	GLY	X	358	57.990	30.333	51.260	0.00	0.00
ATOM	5386	O	GLY	X	358	57.090	31.104	50.909	0.00	0.00
ATOM	5387	N	VAL	X	359	58.048	29.891	52.513	0.00	0.00
ATOM	5388	H	VAL	X	359	58.764	29.250	52.822	0.00	0.00
ATOM	5389	CA	VAL	X	359	57.191	30.517	53.524	0.00	0.00
ATOM	5390	HA	VAL	X	359	56.200	30.364	53.099	0.00	0.00
ATOM	5391	CB	VAL	X	359	57.185	29.682	54.865	0.00	0.00
ATOM	5392	HB	VAL	X	359	58.201	29.484	55.207	0.00	0.00
ATOM	5393	CG1	VAL	X	359	56.424	30.334	56.114	0.00	0.00
ATOM	5394	HG11	VAL	X	359	55.365	30.389	55.861	0.00	0.00
ATOM	5395	HG12	VAL	X	359	56.502	29.742	57.026	0.00	0.00
ATOM	5396	HG13	VAL	X	359	56.896	31.263	56.435	0.00	0.00
ATOM	5397	CG2	VAL	X	359	56.668	28.270	54.674	0.00	0.00
ATOM	5398	HG21	VAL	X	359	56.363	27.842	55.629	0.00	0.00
ATOM	5399	HG22	VAL	X	359	57.489	27.676	54.274	0.00	0.00
ATOM	5400	HG23	VAL	X	359	55.742	28.329	54.101	0.00	0.00
ATOM	5401	C	VAL	X	359	57.405	31.986	53.822	0.00	0.00
ATOM	5402	O	VAL	X	359	56.447	32.751	53.766	0.00	0.00
ATOM	5403	N	ARG	X	360	58.672	32.460	53.801	0.00	0.00
ATOM	5404	H	ARG	X	360	59.436	31.815	53.949	0.00	0.00

ATOM	5405	CA	ARG	X	360	58.980	33.905	54.021	0.00	0.00
ATOM	5406	HA	ARG	X	360	58.556	34.381	54.905	0.00	0.00
ATOM	5407	CB	ARG	X	360	60.516	34.122	54.171	0.00	0.00
ATOM	5408	HB2	ARG	X	360	60.923	33.826	53.205	0.00	0.00
ATOM	5409	HB3	ARG	X	360	60.755	35.127	54.519	0.00	0.00
ATOM	5410	CG	ARG	X	360	61.185	33.248	55.278	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.169	32.205	54.963	0.00	0.00
ATOM	5412	HG3	ARG	X	360	62.205	33.589	55.453	0.00	0.00
ATOM	5413	CD	ARG	X	360	60.464	33.241	56.673	0.00	0.00
ATOM	5414	HD2	ARG	X	360	59.393	33.069	56.572	0.00	0.00
ATOM	5415	HD3	ARG	X	360	60.790	32.384	57.262	0.00	0.00
ATOM	5416	NE	ARG	X	360	60.635	34.495	57.405	0.00	0.00
ATOM	5417	HE	ARG	X	360	60.329	35.366	56.996	0.00	0.00
ATOM	5418	CZ	ARG	X	360	60.846	34.605	58.712	0.00	0.00
ATOM	5419	NH1	ARG	X	360	61.164	33.583	59.467	0.00	0.00
ATOM	5420	HH11	ARG	X	360	61.118	32.613	59.189	0.00	0.00
ATOM	5421	HH12	ARG	X	360	61.371	33.790	60.433	0.00	0.00
ATOM	5422	NH2	ARG	X	360	60.762	35.835	59.267	0.00	0.00
ATOM	5423	HH21	ARG	X	360	60.478	36.597	58.669	0.00	0.00
ATOM	5424	HH22	ARG	X	360	60.950	35.983	60.249	0.00	0.00
ATOM	5425	C	ARG	X	360	58.397	34.688	52.799	0.00	0.00
ATOM	5426	O	ARG	X	360	57.673	35.665	53.078	0.00	0.00
ATOM	5427	N	VAL	X	361	58.594	34.222	51.555	0.00	0.00
ATOM	5428	H	VAL	X	361	59.423	33.671	51.384	0.00	0.00
ATOM	5429	CA	VAL	X	361	57.925	34.964	50.404	0.00	0.00
ATOM	5430	HA	VAL	X	361	58.073	36.041	50.468	0.00	0.00
ATOM	5431	CB	VAL	X	361	58.573	34.665	49.005	0.00	0.00
ATOM	5432	HB	VAL	X	361	58.085	35.332	48.294	0.00	0.00
ATOM	5433	CG1	VAL	X	361	60.107	34.970	48.976	0.00	0.00
ATOM	5434	HG11	VAL	X	361	60.155	35.863	49.598	0.00	0.00
ATOM	5435	HG12	VAL	X	361	60.613	34.156	49.495	0.00	0.00
ATOM	5436	HG13	VAL	X	361	60.480	35.107	47.961	0.00	0.00
ATOM	5437	CG2	VAL	X	361	58.319	33.256	48.489	0.00	0.00
ATOM	5438	HG21	VAL	X	361	57.271	32.981	48.611	0.00	0.00
ATOM	5439	HG22	VAL	X	361	58.958	32.684	49.160	0.00	0.00
ATOM	5440	HG23	VAL	X	361	58.590	33.291	47.433	0.00	0.00
ATOM	5441	C	VAL	X	361	56.405	34.782	50.336	0.00	0.00
ATOM	5442	O	VAL	X	361	55.711	35.679	49.938	0.00	0.00
ATOM	5443	N	GLY	X	362	55.821	33.645	50.824	0.00	0.00
ATOM	5444	H	GLY	X	362	56.428	32.856	50.992	0.00	0.00
ATOM	5445	CA	GLY	X	362	54.409	33.284	50.733	0.00	0.00
ATOM	5446	HA2	GLY	X	362	53.907	33.718	49.869	0.00	0.00
ATOM	5447	HA3	GLY	X	362	54.377	32.196	50.669	0.00	0.00
ATOM	5448	C	GLY	X	362	53.547	33.653	51.843	0.00	0.00
ATOM	5449	O	GLY	X	362	52.385	34.090	51.523	0.00	0.00
ATOM	5450	N	VAL	X	363	54.150	33.744	53.028	0.00	0.00
ATOM	5451	H	VAL	X	363	55.113	33.450	53.098	0.00	0.00
ATOM	5452	CA	VAL	X	363	53.589	34.520	54.172	0.00	0.00
ATOM	5453	HA	VAL	X	363	52.573	34.879	54.009	0.00	0.00
ATOM	5454	CB	VAL	X	363	53.526	33.590	55.422	0.00	0.00
ATOM	5455	HB	VAL	X	363	54.481	33.226	55.801	0.00	0.00
ATOM	5456	CG1	VAL	X	363	52.783	34.212	56.682	0.00	0.00
ATOM	5457	HG11	VAL	X	363	53.232	35.150	57.009	0.00	0.00
ATOM	5458	HG12	VAL	X	363	51.766	34.521	56.439	0.00	0.00
ATOM	5459	HG13	VAL	X	363	52.601	33.427	57.415	0.00	0.00
ATOM	5460	CG2	VAL	X	363	52.793	32.274	54.987	0.00	0.00
ATOM	5461	HG21	VAL	X	363	53.515	31.516	54.684	0.00	0.00
ATOM	5462	HG22	VAL	X	363	52.028	32.417	54.223	0.00	0.00
ATOM	5463	HG23	VAL	X	363	52.196	31.883	55.811	0.00	0.00
ATOM	5464	C	VAL	X	363	54.522	35.712	54.491	0.00	0.00
ATOM	5465	O	VAL	X	363	55.457	35.660	55.285	0.00	0.00
ATOM	5466	N	PRO	X	364	54.264	36.851	53.816	0.00	0.00
ATOM	5467	CD	PRO	X	364	53.367	36.969	52.648	0.00	0.00
ATOM	5468	HD2	PRO	X	364	52.368	36.567	52.817	0.00	0.00
ATOM	5469	HD3	PRO	X	364	53.795	36.441	51.796	0.00	0.00
ATOM	5470	CG	PRO	X	364	53.230	38.482	52.443	0.00	0.00
ATOM	5471	HG2	PRO	X	364	52.397	38.909	53.002	0.00	0.00

ATOM	5472	HG3	PRO	X	364	53.247	38.706	51.377	0.00	0.00
ATOM	5473	CB	PRO	X	364	54.489	39.083	53.079	0.00	0.00
ATOM	5474	HB2	PRO	X	364	54.313	40.112	53.393	0.00	0.00
ATOM	5475	HB3	PRO	X	364	55.223	39.079	52.273	0.00	0.00
ATOM	5476	CA	PRO	X	364	54.863	38.170	54.232	0.00	0.00
ATOM	5477	HA	PRO	X	364	55.939	38.170	54.409	0.00	0.00
ATOM	5478	C	PRO	X	364	54.216	38.660	55.512	0.00	0.00
ATOM	5479	O	PRO	X	364	53.166	38.131	55.869	0.00	0.00
ATOM	5480	N	GLN	X	365	54.829	39.586	56.232	0.00	0.00
ATOM	5481	H	GLN	X	365	55.731	39.959	55.974	0.00	0.00
ATOM	5482	CA	GLN	X	365	54.348	40.320	57.415	0.00	0.00
ATOM	5483	HA	GLN	X	365	55.058	41.126	57.600	0.00	0.00
ATOM	5484	CB	GLN	X	365	52.983	41.117	57.053	0.00	0.00
ATOM	5485	HB2	GLN	X	365	52.300	40.466	56.507	0.00	0.00
ATOM	5486	HB3	GLN	X	365	52.341	41.405	57.885	0.00	0.00
ATOM	5487	CG	GLN	X	365	53.220	42.408	56.224	0.00	0.00
ATOM	5488	HG2	GLN	X	365	54.026	43.006	56.648	0.00	0.00
ATOM	5489	HG3	GLN	X	365	53.497	42.136	55.206	0.00	0.00
ATOM	5490	CD	GLN	X	365	51.968	43.352	56.014	0.00	0.00
ATOM	5491	OE1	GLN	X	365	50.876	43.058	56.452	0.00	0.00
ATOM	5492	NE2	GLN	X	365	52.164	44.544	55.491	0.00	0.00
ATOM	5493	HE21	GLN	X	365	51.403	45.190	55.339	0.00	0.00
ATOM	5494	HE22	GLN	X	365	53.091	44.924	55.362	0.00	0.00
ATOM	5495	C	GLN	X	365	54.149	39.472	58.621	0.00	0.00
ATOM	5496	O	GLN	X	365	53.010	39.095	58.931	0.00	0.00
ATOM	5497	N	VAL	X	366	55.113	39.189	59.461	0.00	0.00
ATOM	5498	H	VAL	X	366	56.004	39.608	59.239	0.00	0.00
ATOM	5499	CA	VAL	X	366	55.023	38.007	60.320	0.00	0.00
ATOM	5500	HA	VAL	X	366	54.152	37.987	60.975	0.00	0.00
ATOM	5501	CB	VAL	X	366	55.016	36.713	59.469	0.00	0.00
ATOM	5502	HB	VAL	X	366	54.161	36.843	58.806	0.00	0.00
ATOM	5503	CG1	VAL	X	366	56.145	36.607	58.427	0.00	0.00
ATOM	5504	HG11	VAL	X	366	57.107	36.641	58.938	0.00	0.00
ATOM	5505	HG12	VAL	X	366	56.000	35.669	57.892	0.00	0.00
ATOM	5506	HG13	VAL	X	366	56.001	37.372	57.664	0.00	0.00
ATOM	5507	CG2	VAL	X	366	54.606	35.473	60.277	0.00	0.00
ATOM	5508	HG21	VAL	X	366	55.325	35.357	61.087	0.00	0.00
ATOM	5509	HG22	VAL	X	366	54.708	34.561	59.689	0.00	0.00
ATOM	5510	HG23	VAL	X	366	53.553	35.523	60.552	0.00	0.00
ATOM	5511	C	VAL	X	366	56.261	38.026	61.237	0.00	0.00
ATOM	5512	O	VAL	X	366	57.343	38.461	60.786	0.00	0.00
ATOM	5513	N	SER	X	367	56.100	37.578	62.506	0.00	0.00
ATOM	5514	H	SER	X	367	55.227	37.141	62.765	0.00	0.00
ATOM	5515	CA	SER	X	367	57.233	37.438	63.428	0.00	0.00
ATOM	5516	HA	SER	X	367	57.944	38.223	63.167	0.00	0.00
ATOM	5517	CB	SER	X	367	56.779	37.643	64.920	0.00	0.00
ATOM	5518	HB2	SER	X	367	57.632	37.379	65.546	0.00	0.00
ATOM	5519	HB3	SER	X	367	56.453	38.645	65.199	0.00	0.00
ATOM	5520	OG	SER	X	367	55.615	36.854	65.270	0.00	0.00
ATOM	5521	HG	SER	X	367	55.228	37.219	66.068	0.00	0.00
ATOM	5522	C	SER	X	367	57.810	36.057	63.364	0.00	0.00
ATOM	5523	O	SER	X	367	57.272	35.172	62.700	0.00	0.00
ATOM	5524	N	ASP	X	368	59.029	35.791	63.824	0.00	0.00
ATOM	5525	H	ASP	X	368	59.543	36.554	64.240	0.00	0.00
ATOM	5526	CA	ASP	X	368	59.728	34.525	63.709	0.00	0.00
ATOM	5527	HA	ASP	X	368	59.722	34.082	62.713	0.00	0.00
ATOM	5528	CB	ASP	X	368	61.131	34.777	64.096	0.00	0.00
ATOM	5529	HB2	ASP	X	368	61.224	35.277	65.060	0.00	0.00
ATOM	5530	HB3	ASP	X	368	61.615	33.801	64.143	0.00	0.00
ATOM	5531	CG	ASP	X	368	61.929	35.593	63.060	0.00	0.00
ATOM	5532	OD1	ASP	X	368	62.689	36.500	63.496	0.00	0.00
ATOM	5533	OD2	ASP	X	368	61.919	35.117	61.863	0.00	0.00
ATOM	5534	C	ASP	X	368	59.054	33.379	64.566	0.00	0.00
ATOM	5535	O	ASP	X	368	59.195	32.189	64.313	0.00	0.00
ATOM	5536	N	LEU	X	369	58.370	33.802	65.626	0.00	0.00
ATOM	5537	H	LEU	X	369	58.357	34.767	65.924	0.00	0.00
ATOM	5538	CA	LEU	X	369	57.664	32.856	66.520	0.00	0.00

ATOM	5539	HA	LEU	X	369	58.392	32.049	66.610	0.00	0.00
ATOM	5540	CB	LEU	X	369	57.424	33.573	67.831	0.00	0.00
ATOM	5541	HB2	LEU	X	369	57.051	34.590	67.708	0.00	0.00
ATOM	5542	HB3	LEU	X	369	56.611	33.052	68.337	0.00	0.00
ATOM	5543	CG	LEU	X	369	58.570	33.569	68.835	0.00	0.00
ATOM	5544	HG	LEU	X	369	59.374	34.027	68.260	0.00	0.00
ATOM	5545	CD1	LEU	X	369	58.384	34.360	70.170	0.00	0.00
ATOM	5546	HD11	LEU	X	369	57.558	33.978	70.769	0.00	0.00
ATOM	5547	HD12	LEU	X	369	58.176	35.412	69.973	0.00	0.00
ATOM	5548	HD13	LEU	X	369	59.303	34.399	70.755	0.00	0.00
ATOM	5549	CD2	LEU	X	369	59.065	32.159	69.097	0.00	0.00
ATOM	5550	HD21	LEU	X	369	59.822	31.785	68.408	0.00	0.00
ATOM	5551	HD22	LEU	X	369	59.581	32.151	70.057	0.00	0.00
ATOM	5552	HD23	LEU	X	369	58.227	31.462	69.072	0.00	0.00
ATOM	5553	C	LEU	X	369	56.407	32.295	65.869	0.00	0.00
ATOM	5554	O	LEU	X	369	55.951	31.190	66.067	0.00	0.00
ATOM	5555	N	ALA	X	370	55.880	33.126	64.952	0.00	0.00
ATOM	5556	H	ALA	X	370	56.295	34.028	64.770	0.00	0.00
ATOM	5557	CA	ALA	X	370	54.691	32.823	64.119	0.00	0.00
ATOM	5558	HA	ALA	X	370	53.924	32.260	64.650	0.00	0.00
ATOM	5559	CB	ALA	X	370	54.125	34.112	63.707	0.00	0.00
ATOM	5560	HB1	ALA	X	370	53.676	34.568	64.590	0.00	0.00
ATOM	5561	HB2	ALA	X	370	53.422	34.035	62.877	0.00	0.00
ATOM	5562	HB3	ALA	X	370	54.786	34.889	63.324	0.00	0.00
ATOM	5563	C	ALA	X	370	55.127	32.031	62.917	0.00	0.00
ATOM	5564	O	ALA	X	370	54.521	30.930	62.701	0.00	0.00
ATOM	5565	N	ALA	X	371	56.103	32.415	62.140	0.00	0.00
ATOM	5566	H	ALA	X	371	56.521	33.318	62.316	0.00	0.00
ATOM	5567	CA	ALA	X	371	56.733	31.643	61.119	0.00	0.00
ATOM	5568	HA	ALA	X	371	55.964	31.612	60.347	0.00	0.00
ATOM	5569	CB	ALA	X	371	57.832	32.615	60.635	0.00	0.00
ATOM	5570	HB1	ALA	X	371	57.474	33.590	60.305	0.00	0.00
ATOM	5571	HB2	ALA	X	371	58.326	32.147	59.783	0.00	0.00
ATOM	5572	HB3	ALA	X	371	58.579	32.833	61.398	0.00	0.00
ATOM	5573	C	ALA	X	371	57.198	30.184	61.554	0.00	0.00
ATOM	5574	O	ALA	X	371	56.883	29.271	60.801	0.00	0.00
ATOM	5575	N	GLU	X	372	57.938	30.038	62.688	0.00	0.00
ATOM	5576	H	GLU	X	372	58.255	30.875	63.156	0.00	0.00
ATOM	5577	CA	GLU	X	372	58.016	28.750	63.370	0.00	0.00
ATOM	5578	HA	GLU	X	372	58.690	28.159	62.749	0.00	0.00
ATOM	5579	CB	GLU	X	372	58.533	28.792	64.812	0.00	0.00
ATOM	5580	HB2	GLU	X	372	57.968	29.596	65.285	0.00	0.00
ATOM	5581	HB3	GLU	X	372	58.361	27.816	65.266	0.00	0.00
ATOM	5582	CG	GLU	X	372	60.062	29.054	64.808	0.00	0.00
ATOM	5583	HG2	GLU	X	372	60.210	29.937	64.187	0.00	0.00
ATOM	5584	HG3	GLU	X	372	60.199	29.249	65.871	0.00	0.00
ATOM	5585	CD	GLU	X	372	60.909	27.918	64.306	0.00	0.00
ATOM	5586	OE1	GLU	X	372	60.818	26.827	64.926	0.00	0.00
ATOM	5587	OE2	GLU	X	372	61.581	27.976	63.258	0.00	0.00
ATOM	5588	C	GLU	X	372	56.680	27.951	63.439	0.00	0.00
ATOM	5589	O	GLU	X	372	56.572	26.927	62.848	0.00	0.00
ATOM	5590	N	ALA	X	373	55.659	28.598	63.962	0.00	0.00
ATOM	5591	H	ALA	X	373	55.707	29.530	64.349	0.00	0.00
ATOM	5592	CA	ALA	X	373	54.378	28.012	64.268	0.00	0.00
ATOM	5593	HA	ALA	X	373	54.599	27.026	64.678	0.00	0.00
ATOM	5594	CB	ALA	X	373	53.603	29.010	65.084	0.00	0.00
ATOM	5595	HB1	ALA	X	373	53.104	29.770	64.482	0.00	0.00
ATOM	5596	HB2	ALA	X	373	54.360	29.406	65.761	0.00	0.00
ATOM	5597	HB3	ALA	X	373	52.867	28.544	65.739	0.00	0.00
ATOM	5598	C	ALA	X	373	53.665	27.687	62.901	0.00	0.00
ATOM	5599	O	ALA	X	373	53.120	26.648	62.757	0.00	0.00
ATOM	5600	N	VAL	X	374	53.951	28.429	61.797	0.00	0.00
ATOM	5601	H	VAL	X	374	54.525	29.246	61.949	0.00	0.00
ATOM	5602	CA	VAL	X	374	53.560	28.090	60.315	0.00	0.00
ATOM	5603	HA	VAL	X	374	52.505	27.849	60.184	0.00	0.00
ATOM	5604	CB	VAL	X	374	53.762	29.222	59.354	0.00	0.00
ATOM	5605	HB	VAL	X	374	54.805	29.539	59.375	0.00	0.00

ATOM	5606	CG1	VAL	X	374	53.459	28.769	57.877	0.00	0.00
ATOM	5607	HG11	VAL	X	374	53.137	29.587	57.232	0.00	0.00
ATOM	5608	HG12	VAL	X	374	54.407	28.428	57.461	0.00	0.00
ATOM	5609	HG13	VAL	X	374	52.695	27.991	57.852	0.00	0.00
ATOM	5610	CG2	VAL	X	374	52.761	30.338	59.625	0.00	0.00
ATOM	5611	HG21	VAL	X	374	52.867	30.760	60.624	0.00	0.00
ATOM	5612	HG22	VAL	X	374	51.783	29.870	59.518	0.00	0.00
ATOM	5613	HG23	VAL	X	374	52.815	31.196	58.955	0.00	0.00
ATOM	5614	C	VAL	X	374	54.246	26.780	59.953	0.00	0.00
ATOM	5615	O	VAL	X	374	53.629	25.761	59.648	0.00	0.00
ATOM	5616	N	VAL	X	375	55.567	26.825	59.982	0.00	0.00
ATOM	5617	H	VAL	X	375	56.018	27.677	60.281	0.00	0.00
ATOM	5618	CA	VAL	X	375	56.418	25.774	59.491	0.00	0.00
ATOM	5619	HA	VAL	X	375	56.030	25.503	58.509	0.00	0.00
ATOM	5620	CB	VAL	X	375	57.917	26.302	59.414	0.00	0.00
ATOM	5621	HB	VAL	X	375	58.201	26.670	60.400	0.00	0.00
ATOM	5622	CG1	VAL	X	375	58.895	25.160	59.151	0.00	0.00
ATOM	5623	HG11	VAL	X	375	59.852	25.613	59.410	0.00	0.00
ATOM	5624	HG12	VAL	X	375	58.810	24.399	59.927	0.00	0.00
ATOM	5625	HG13	VAL	X	375	58.886	24.935	58.085	0.00	0.00
ATOM	5626	CG2	VAL	X	375	58.142	27.506	58.453	0.00	0.00
ATOM	5627	HG21	VAL	X	375	58.769	28.245	58.952	0.00	0.00
ATOM	5628	HG22	VAL	X	375	57.154	27.829	58.124	0.00	0.00
ATOM	5629	HG23	VAL	X	375	58.584	27.161	57.519	0.00	0.00
ATOM	5630	C	VAL	X	375	56.206	24.439	60.205	0.00	0.00
ATOM	5631	O	VAL	X	375	56.401	23.372	59.596	0.00	0.00
ATOM	5632	N	LEU	X	376	55.850	24.492	61.473	0.00	0.00
ATOM	5633	H	LEU	X	376	55.734	25.446	61.785	0.00	0.00
ATOM	5634	CA	LEU	X	376	55.754	23.373	62.403	0.00	0.00
ATOM	5635	HA	LEU	X	376	56.495	22.621	62.131	0.00	0.00
ATOM	5636	CB	LEU	X	376	55.896	23.970	63.849	0.00	0.00
ATOM	5637	HB2	LEU	X	376	56.912	24.359	63.901	0.00	0.00
ATOM	5638	HB3	LEU	X	376	55.261	24.844	63.995	0.00	0.00
ATOM	5639	CG	LEU	X	376	55.602	23.028	64.931	0.00	0.00
ATOM	5640	HG	LEU	X	376	54.583	22.673	64.779	0.00	0.00
ATOM	5641	CD1	LEU	X	376	56.678	21.924	64.894	0.00	0.00
ATOM	5642	HD11	LEU	X	376	56.713	21.474	63.901	0.00	0.00
ATOM	5643	HD12	LEU	X	376	56.436	21.121	65.590	0.00	0.00
ATOM	5644	HD13	LEU	X	376	57.632	22.304	65.259	0.00	0.00
ATOM	5645	CD2	LEU	X	376	55.538	23.732	66.270	0.00	0.00
ATOM	5646	HD21	LEU	X	376	55.255	22.946	66.971	0.00	0.00
ATOM	5647	HD22	LEU	X	376	56.542	24.073	66.523	0.00	0.00
ATOM	5648	HD23	LEU	X	376	54.814	24.546	66.259	0.00	0.00
ATOM	5649	C	LEU	X	376	54.394	22.703	62.212	0.00	0.00
ATOM	5650	O	LEU	X	376	54.302	21.484	62.185	0.00	0.00
ATOM	5651	N	HIE	X	377	53.359	23.542	61.992	0.00	0.00
ATOM	5652	H	HIE	X	377	53.636	24.510	62.078	0.00	0.00
ATOM	5653	CA	HIE	X	377	51.926	23.193	61.671	0.00	0.00
ATOM	5654	HA	HIE	X	377	51.610	22.491	62.443	0.00	0.00
ATOM	5655	CB	HIE	X	377	51.063	24.438	61.796	0.00	0.00
ATOM	5656	HB2	HIE	X	377	51.140	24.862	62.797	0.00	0.00
ATOM	5657	HB3	HIE	X	377	51.461	25.190	61.114	0.00	0.00
ATOM	5658	CG	HIE	X	377	49.555	24.301	61.388	0.00	0.00
ATOM	5659	ND1	HIE	X	377	48.561	23.492	61.981	0.00	0.00
ATOM	5660	CE1	HIE	X	377	47.492	23.667	61.168	0.00	0.00
ATOM	5661	HE1	HIE	X	377	46.484	23.296	61.280	0.00	0.00
ATOM	5662	NE2	HIE	X	377	47.736	24.594	60.229	0.00	0.00
ATOM	5663	HE2	HIE	X	377	47.091	24.939	59.533	0.00	0.00
ATOM	5664	CD2	HIE	X	377	49.012	25.030	60.365	0.00	0.00
ATOM	5665	HD2	HIE	X	377	49.526	25.769	59.768	0.00	0.00
ATOM	5666	C	HIE	X	377	51.724	22.476	60.313	0.00	0.00
ATOM	5667	O	HIE	X	377	50.655	21.921	60.109	0.00	0.00
ATOM	5668	N	TYR	X	378	52.712	22.528	59.439	0.00	0.00
ATOM	5669	H	TYR	X	378	53.398	23.216	59.714	0.00	0.00
ATOM	5670	CA	TYR	X	378	52.787	21.914	58.064	0.00	0.00
ATOM	5671	HA	TYR	X	378	51.922	21.304	57.800	0.00	0.00
ATOM	5672	CB	TYR	X	378	52.800	23.054	56.974	0.00	0.00

ATOM	5673	HB2	TYR	X	378	53.530	23.811	57.260	0.00	0.00
ATOM	5674	HB3	TYR	X	378	53.158	22.580	56.060	0.00	0.00
ATOM	5675	CG	TYR	X	378	51.466	23.693	56.722	0.00	0.00
ATOM	5676	CD1	TYR	X	378	50.536	23.021	55.953	0.00	0.00
ATOM	5677	HD1	TYR	X	378	50.682	22.053	55.498	0.00	0.00
ATOM	5678	CE1	TYR	X	378	49.346	23.725	55.607	0.00	0.00
ATOM	5679	HE1	TYR	X	378	48.587	23.302	54.966	0.00	0.00
ATOM	5680	CZ	TYR	X	378	49.063	25.038	56.145	0.00	0.00
ATOM	5681	OH	TYR	X	378	47.918	25.745	55.886	0.00	0.00
ATOM	5682	HH	TYR	X	378	47.480	25.422	55.095	0.00	0.00
ATOM	5683	CE2	TYR	X	378	50.058	25.661	56.982	0.00	0.00
ATOM	5684	HE2	TYR	X	378	49.864	26.637	57.403	0.00	0.00
ATOM	5685	CD2	TYR	X	378	51.169	24.930	57.285	0.00	0.00
ATOM	5686	HD2	TYR	X	378	51.784	25.396	58.041	0.00	0.00
ATOM	5687	C	TYR	X	378	53.980	20.995	57.880	0.00	0.00
ATOM	5688	O	TYR	X	378	54.276	20.599	56.746	0.00	0.00
ATOM	5689	N	THR	X	379	54.728	20.603	58.952	0.00	0.00
ATOM	5690	H	THR	X	379	54.518	20.897	59.896	0.00	0.00
ATOM	5691	CA	THR	X	379	55.650	19.439	58.967	0.00	0.00
ATOM	5692	HA	THR	X	379	55.911	19.136	57.953	0.00	0.00
ATOM	5693	CB	THR	X	379	56.880	19.667	59.736	0.00	0.00
ATOM	5694	HB	THR	X	379	56.576	19.733	60.781	0.00	0.00
ATOM	5695	CG2	THR	X	379	57.989	18.579	59.593	0.00	0.00
ATOM	5696	HG21	THR	X	379	57.608	17.606	59.903	0.00	0.00
ATOM	5697	HG22	THR	X	379	58.797	18.841	60.276	0.00	0.00
ATOM	5698	HG23	THR	X	379	58.365	18.475	58.575	0.00	0.00
ATOM	5699	OG1	THR	X	379	57.572	20.792	59.264	0.00	0.00
ATOM	5700	HG1	THR	X	379	56.936	21.509	59.329	0.00	0.00
ATOM	5701	C	THR	X	379	54.957	18.216	59.569	0.00	0.00
ATOM	5702	O	THR	X	379	54.607	18.198	60.760	0.00	0.00
ATOM	5703	N	ASP	X	380	54.831	17.192	58.710	0.00	0.00
ATOM	5704	H	ASP	X	380	55.241	17.301	57.793	0.00	0.00
ATOM	5705	CA	ASP	X	380	54.606	15.804	59.159	0.00	0.00
ATOM	5706	HA	ASP	X	380	53.973	15.809	60.047	0.00	0.00
ATOM	5707	CB	ASP	X	380	54.036	14.945	58.019	0.00	0.00
ATOM	5708	HB2	ASP	X	380	53.004	15.248	57.845	0.00	0.00
ATOM	5709	HB3	ASP	X	380	54.589	14.932	57.079	0.00	0.00
ATOM	5710	CG	ASP	X	380	53.797	13.482	58.474	0.00	0.00
ATOM	5711	OD1	ASP	X	380	54.706	12.641	58.221	0.00	0.00
ATOM	5712	OD2	ASP	X	380	52.911	13.247	59.317	0.00	0.00
ATOM	5713	C	ASP	X	380	55.968	15.232	59.616	0.00	0.00
ATOM	5714	O	ASP	X	380	56.988	15.456	58.945	0.00	0.00
ATOM	5715	N	TRP	X	381	56.005	14.722	60.833	0.00	0.00
ATOM	5716	H	TRP	X	381	55.131	14.578	61.317	0.00	0.00
ATOM	5717	CA	TRP	X	381	57.233	14.243	61.461	0.00	0.00
ATOM	5718	HA	TRP	X	381	57.978	15.012	61.262	0.00	0.00
ATOM	5719	CB	TRP	X	381	57.062	14.168	63.013	0.00	0.00
ATOM	5720	HB2	TRP	X	381	56.187	13.529	63.129	0.00	0.00
ATOM	5721	HB3	TRP	X	381	57.906	13.600	63.405	0.00	0.00
ATOM	5722	CG	TRP	X	381	57.059	15.579	63.663	0.00	0.00
ATOM	5723	CD1	TRP	X	381	56.188	16.578	63.329	0.00	0.00
ATOM	5724	HD1	TRP	X	381	55.505	16.486	62.498	0.00	0.00
ATOM	5725	NE1	TRP	X	381	56.418	17.672	64.150	0.00	0.00
ATOM	5726	HE1	TRP	X	381	55.852	18.507	64.104	0.00	0.00
ATOM	5727	CE2	TRP	X	381	57.454	17.444	65.033	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	57.897	18.154	66.167	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	57.368	19.051	66.454	0.00	0.00
ATOM	5730	CH2	TRP	X	381	58.986	17.634	66.896	0.00	0.00
ATOM	5731	HH2	TRP	X	381	59.445	18.154	67.724	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	59.516	16.401	66.490	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	60.323	15.951	67.050	0.00	0.00
ATOM	5734	CE3	TRP	X	381	59.000	15.607	65.485	0.00	0.00
ATOM	5735	HE3	TRP	X	381	59.364	14.612	65.274	0.00	0.00
ATOM	5736	CD2	TRP	X	381	57.881	16.086	64.754	0.00	0.00
ATOM	5737	C	TRP	X	381	57.840	12.862	60.962	0.00	0.00
ATOM	5738	O	TRP	X	381	59.060	12.744	61.163	0.00	0.00
ATOM	5739	N	LEU	X	382	57.112	12.003	60.271	0.00	0.00

ATOM	5740	H	LEU	X	382	56.130	12.205	60.147	0.00	0.00
ATOM	5741	CA	LEU	X	382	57.672	10.807	59.604	0.00	0.00
ATOM	5742	HA	LEU	X	382	58.345	10.295	60.292	0.00	0.00
ATOM	5743	CB	LEU	X	382	56.468	9.925	59.152	0.00	0.00
ATOM	5744	HB2	LEU	X	382	55.677	9.887	59.901	0.00	0.00
ATOM	5745	HB3	LEU	X	382	56.115	10.360	58.217	0.00	0.00
ATOM	5746	CG	LEU	X	382	56.857	8.469	58.877	0.00	0.00
ATOM	5747	HG	LEU	X	382	57.583	8.459	58.063	0.00	0.00
ATOM	5748	CD1	LEU	X	382	57.420	7.653	60.026	0.00	0.00
ATOM	5749	HD11	LEU	X	382	56.644	7.712	60.788	0.00	0.00
ATOM	5750	HD12	LEU	X	382	58.338	8.103	60.405	0.00	0.00
ATOM	5751	HD13	LEU	X	382	57.535	6.635	59.652	0.00	0.00
ATOM	5752	CD2	LEU	X	382	55.602	7.664	58.379	0.00	0.00
ATOM	5753	HD21	LEU	X	382	55.307	8.143	57.446	0.00	0.00
ATOM	5754	HD22	LEU	X	382	55.925	6.654	58.128	0.00	0.00
ATOM	5755	HD23	LEU	X	382	54.774	7.545	59.078	0.00	0.00
ATOM	5756	C	LEU	X	382	58.485	11.184	58.398	0.00	0.00
ATOM	5757	O	LEU	X	382	59.559	10.558	58.228	0.00	0.00
ATOM	5758	N	HIE	X	383	58.047	12.195	57.643	0.00	0.00
ATOM	5759	H	HIE	X	383	57.134	12.554	57.883	0.00	0.00
ATOM	5760	CA	HIE	X	383	58.716	12.704	56.396	0.00	0.00
ATOM	5761	HA	HIE	X	383	59.641	12.150	56.234	0.00	0.00
ATOM	5762	CB	HIE	X	383	57.865	12.158	55.239	0.00	0.00
ATOM	5763	HB2	HIE	X	383	56.818	12.460	55.251	0.00	0.00
ATOM	5764	HB3	HIE	X	383	58.230	12.625	54.325	0.00	0.00
ATOM	5765	CG	HIE	X	383	57.861	10.644	55.155	0.00	0.00
ATOM	5766	ND1	HIE	X	383	58.926	9.836	54.776	0.00	0.00
ATOM	5767	CE1	HIE	X	383	58.449	8.643	54.618	0.00	0.00
ATOM	5768	HE1	HIE	X	383	58.955	7.743	54.299	0.00	0.00
ATOM	5769	NE2	HIE	X	383	57.218	8.602	55.090	0.00	0.00
ATOM	5770	HE2	HIE	X	383	56.608	7.798	55.052	0.00	0.00
ATOM	5771	CD2	HIE	X	383	56.759	9.889	55.404	0.00	0.00
ATOM	5772	HD2	HIE	X	383	55.736	10.145	55.639	0.00	0.00
ATOM	5773	C	HIE	X	383	58.990	14.241	56.349	0.00	0.00
ATOM	5774	O	HIE	X	383	58.397	14.898	55.470	0.00	0.00
ATOM	5775	N	PRO	X	384	59.885	14.767	57.166	0.00	0.00
ATOM	5776	CD	PRO	X	384	60.667	14.011	58.179	0.00	0.00
ATOM	5777	HD2	PRO	X	384	61.397	13.331	57.741	0.00	0.00
ATOM	5778	HD3	PRO	X	384	59.937	13.561	58.852	0.00	0.00
ATOM	5779	CG	PRO	X	384	61.422	15.099	58.945	0.00	0.00
ATOM	5780	HG2	PRO	X	384	62.429	15.311	58.584	0.00	0.00
ATOM	5781	HG3	PRO	X	384	61.361	14.814	59.995	0.00	0.00
ATOM	5782	CB	PRO	X	384	60.623	16.388	58.712	0.00	0.00
ATOM	5783	HB2	PRO	X	384	61.284	17.233	58.905	0.00	0.00
ATOM	5784	HB3	PRO	X	384	59.807	16.268	59.426	0.00	0.00
ATOM	5785	CA	PRO	X	384	60.002	16.178	57.342	0.00	0.00
ATOM	5786	HA	PRO	X	384	59.055	16.718	57.334	0.00	0.00
ATOM	5787	C	PRO	X	384	60.795	16.811	56.214	0.00	0.00
ATOM	5788	O	PRO	X	384	60.868	18.027	56.180	0.00	0.00
ATOM	5789	N	GLU	X	385	61.447	16.009	55.363	0.00	0.00
ATOM	5790	H	GLU	X	385	61.488	15.033	55.618	0.00	0.00
ATOM	5791	CA	GLU	X	385	62.340	16.542	54.250	0.00	0.00
ATOM	5792	HA	GLU	X	385	62.112	17.600	54.119	0.00	0.00
ATOM	5793	CB	GLU	X	385	63.724	16.312	54.792	0.00	0.00
ATOM	5794	HB2	GLU	X	385	63.839	15.282	55.129	0.00	0.00
ATOM	5795	HB3	GLU	X	385	64.443	16.462	53.987	0.00	0.00
ATOM	5796	CG	GLU	X	385	64.142	17.210	55.952	0.00	0.00
ATOM	5797	HG2	GLU	X	385	64.303	18.208	55.542	0.00	0.00
ATOM	5798	HG3	GLU	X	385	63.313	17.274	56.657	0.00	0.00
ATOM	5799	CD	GLU	X	385	65.400	16.700	56.755	0.00	0.00
ATOM	5800	OE1	GLU	X	385	65.182	16.310	57.925	0.00	0.00
ATOM	5801	OE2	GLU	X	385	66.565	16.826	56.192	0.00	0.00
ATOM	5802	C	GLU	X	385	62.137	15.835	52.847	0.00	0.00
ATOM	5803	O	GLU	X	385	62.960	16.037	51.970	0.00	0.00
ATOM	5804	N	ASP	X	386	61.065	15.065	52.783	0.00	0.00
ATOM	5805	H	ASP	X	386	60.670	14.713	53.644	0.00	0.00
ATOM	5806	CA	ASP	X	386	60.722	14.464	51.483	0.00	0.00

ATOM	5807	HA	ASP	X	386	61.607	13.939	51.122	0.00	0.00
ATOM	5808	CB	ASP	X	386	59.594	13.492	51.765	0.00	0.00
ATOM	5809	HB2	ASP	X	386	59.909	12.744	52.493	0.00	0.00
ATOM	5810	HB3	ASP	X	386	58.701	14.012	52.111	0.00	0.00
ATOM	5811	CG	ASP	X	386	59.129	12.794	50.506	0.00	0.00
ATOM	5812	OD1	ASP	X	386	59.658	11.713	50.263	0.00	0.00
ATOM	5813	OD2	ASP	X	386	58.344	13.284	49.696	0.00	0.00
ATOM	5814	C	ASP	X	386	60.245	15.663	50.571	0.00	0.00
ATOM	5815	O	ASP	X	386	59.406	16.436	51.019	0.00	0.00
ATOM	5816	N	PRO	X	387	60.794	15.695	49.349	0.00	0.00
ATOM	5817	CD	PRO	X	387	61.714	14.789	48.704	0.00	0.00
ATOM	5818	HD2	PRO	X	387	61.358	13.760	48.750	0.00	0.00
ATOM	5819	HD3	PRO	X	387	62.710	14.720	49.142	0.00	0.00
ATOM	5820	CG	PRO	X	387	61.955	15.251	47.270	0.00	0.00
ATOM	5821	HG2	PRO	X	387	61.106	14.898	46.684	0.00	0.00
ATOM	5822	HG3	PRO	X	387	62.829	14.935	46.701	0.00	0.00
ATOM	5823	CB	PRO	X	387	61.915	16.808	47.489	0.00	0.00
ATOM	5824	HB2	PRO	X	387	61.733	17.410	46.599	0.00	0.00
ATOM	5825	HB3	PRO	X	387	62.857	17.117	47.940	0.00	0.00
ATOM	5826	CA	PRO	X	387	60.773	16.951	48.533	0.00	0.00
ATOM	5827	HA	PRO	X	387	60.996	17.810	49.166	0.00	0.00
ATOM	5828	C	PRO	X	387	59.438	17.193	47.867	0.00	0.00
ATOM	5829	O	PRO	X	387	59.033	18.350	47.695	0.00	0.00
ATOM	5830	N	ALA	X	388	58.751	16.114	47.443	0.00	0.00
ATOM	5831	H	ALA	X	388	59.140	15.210	47.672	0.00	0.00
ATOM	5832	CA	ALA	X	388	57.402	16.250	46.816	0.00	0.00
ATOM	5833	HA	ALA	X	388	57.376	17.032	46.057	0.00	0.00
ATOM	5834	CB	ALA	X	388	57.037	14.873	46.250	0.00	0.00
ATOM	5835	HB1	ALA	X	388	56.856	14.114	47.011	0.00	0.00
ATOM	5836	HB2	ALA	X	388	57.827	14.541	45.577	0.00	0.00
ATOM	5837	HB3	ALA	X	388	56.106	14.937	45.688	0.00	0.00
ATOM	5838	C	ALA	X	388	56.405	16.586	47.896	0.00	0.00
ATOM	5839	O	ALA	X	388	55.409	17.213	47.513	0.00	0.00
ATOM	5840	N	ARG	X	389	56.619	16.224	49.181	0.00	0.00
ATOM	5841	H	ARG	X	389	57.485	15.707	49.247	0.00	0.00
ATOM	5842	CA	ARG	X	389	55.865	16.562	50.354	0.00	0.00
ATOM	5843	HA	ARG	X	389	54.805	16.619	50.104	0.00	0.00
ATOM	5844	CB	ARG	X	389	56.006	15.437	51.431	0.00	0.00
ATOM	5845	HB2	ARG	X	389	55.968	14.472	50.925	0.00	0.00
ATOM	5846	HB3	ARG	X	389	57.008	15.534	51.849	0.00	0.00
ATOM	5847	CG	ARG	X	389	54.993	15.592	52.546	0.00	0.00
ATOM	5848	HG2	ARG	X	389	55.046	16.600	52.956	0.00	0.00
ATOM	5849	HG3	ARG	X	389	53.953	15.456	52.249	0.00	0.00
ATOM	5850	CD	ARG	X	389	55.383	14.600	53.617	0.00	0.00
ATOM	5851	HD2	ARG	X	389	56.472	14.584	53.667	0.00	0.00
ATOM	5852	HD3	ARG	X	389	54.966	14.954	54.560	0.00	0.00
ATOM	5853	NE	ARG	X	389	54.997	13.208	53.262	0.00	0.00
ATOM	5854	HE	ARG	X	389	55.567	12.680	52.617	0.00	0.00
ATOM	5855	CZ	ARG	X	389	53.872	12.647	53.636	0.00	0.00
ATOM	5856	NH1	ARG	X	389	53.073	13.222	54.495	0.00	0.00
ATOM	5857	HH11	ARG	X	389	53.376	14.107	54.875	0.00	0.00
ATOM	5858	HH12	ARG	X	389	52.326	12.695	54.924	0.00	0.00
ATOM	5859	NH2	ARG	X	389	53.474	11.514	53.211	0.00	0.00
ATOM	5860	HH21	ARG	X	389	53.973	10.910	52.573	0.00	0.00
ATOM	5861	HH22	ARG	X	389	52.645	11.128	53.638	0.00	0.00
ATOM	5862	C	ARG	X	389	56.148	17.974	50.938	0.00	0.00
ATOM	5863	O	ARG	X	389	55.247	18.703	51.426	0.00	0.00
ATOM	5864	N	LEU	X	390	57.386	18.491	50.758	0.00	0.00
ATOM	5865	H	LEU	X	390	58.181	17.947	50.455	0.00	0.00
ATOM	5866	CA	LEU	X	390	57.637	19.879	50.913	0.00	0.00
ATOM	5867	HA	LEU	X	390	57.281	20.123	51.914	0.00	0.00
ATOM	5868	CB	LEU	X	390	59.147	20.152	50.765	0.00	0.00
ATOM	5869	HB2	LEU	X	390	59.547	19.814	49.809	0.00	0.00
ATOM	5870	HB3	LEU	X	390	59.164	21.236	50.883	0.00	0.00
ATOM	5871	CG	LEU	X	390	60.119	19.644	51.825	0.00	0.00
ATOM	5872	HG	LEU	X	390	59.882	18.592	51.981	0.00	0.00
ATOM	5873	CD1	LEU	X	390	61.603	19.749	51.484	0.00	0.00

ATOM	5874	HD11	LEU	X	390	62.314	19.703	52.310	0.00	0.00
ATOM	5875	HD12	LEU	X	390	61.751	20.704	50.980	0.00	0.00
ATOM	5876	HD13	LEU	X	390	61.912	18.928	50.838	0.00	0.00
ATOM	5877	CD2	LEU	X	390	59.931	20.198	53.233	0.00	0.00
ATOM	5878	HD21	LEU	X	390	60.216	21.248	53.285	0.00	0.00
ATOM	5879	HD22	LEU	X	390	58.885	20.125	53.531	0.00	0.00
ATOM	5880	HD23	LEU	X	390	60.588	19.630	53.892	0.00	0.00
ATOM	5881	C	LEU	X	390	56.831	20.659	49.901	0.00	0.00
ATOM	5882	O	LEU	X	390	56.115	21.601	50.216	0.00	0.00
ATOM	5883	N	ARG	X	391	56.877	20.355	48.562	0.00	0.00
ATOM	5884	H	ARG	X	391	57.512	19.630	48.261	0.00	0.00
ATOM	5885	CA	ARG	X	391	56.099	21.068	47.562	0.00	0.00
ATOM	5886	HA	ARG	X	391	56.577	22.041	47.668	0.00	0.00
ATOM	5887	CB	ARG	X	391	56.496	20.469	46.213	0.00	0.00
ATOM	5888	HB2	ARG	X	391	57.552	20.656	46.018	0.00	0.00
ATOM	5889	HB3	ARG	X	391	56.206	19.422	46.131	0.00	0.00
ATOM	5890	CG	ARG	X	391	55.627	21.077	45.088	0.00	0.00
ATOM	5891	HG2	ARG	X	391	54.559	20.956	45.270	0.00	0.00
ATOM	5892	HG3	ARG	X	391	55.862	22.141	45.106	0.00	0.00
ATOM	5893	CD	ARG	X	391	55.805	20.685	43.570	0.00	0.00
ATOM	5894	HD2	ARG	X	391	55.128	21.245	42.924	0.00	0.00
ATOM	5895	HD3	ARG	X	391	56.774	21.033	43.212	0.00	0.00
ATOM	5896	NE	ARG	X	391	55.667	19.202	43.370	0.00	0.00
ATOM	5897	HE	ARG	X	391	56.393	18.893	42.739	0.00	0.00
ATOM	5898	CZ	ARG	X	391	54.784	18.278	43.847	0.00	0.00
ATOM	5899	NH1	ARG	X	391	53.685	18.651	44.540	0.00	0.00
ATOM	5900	HH11	ARG	X	391	53.712	19.632	44.782	0.00	0.00
ATOM	5901	HH12	ARG	X	391	52.982	17.986	44.829	0.00	0.00
ATOM	5902	NH2	ARG	X	391	55.000	17.012	43.645	0.00	0.00
ATOM	5903	HH21	ARG	X	391	55.706	16.778	42.961	0.00	0.00
ATOM	5904	HH22	ARG	X	391	54.311	16.321	43.907	0.00	0.00
ATOM	5905	C	ARG	X	391	54.492	21.017	47.939	0.00	0.00
ATOM	5906	O	ARG	X	391	53.796	22.044	47.899	0.00	0.00
ATOM	5907	N	GLU	X	392	53.883	19.837	48.323	0.00	0.00
ATOM	5908	H	GLU	X	392	54.466	19.013	48.297	0.00	0.00
ATOM	5909	CA	GLU	X	392	52.439	19.644	48.612	0.00	0.00
ATOM	5910	HA	GLU	X	392	51.975	19.831	47.644	0.00	0.00
ATOM	5911	CB	GLU	X	392	52.203	18.115	48.835	0.00	0.00
ATOM	5912	HB2	GLU	X	392	52.953	17.606	48.229	0.00	0.00
ATOM	5913	HB3	GLU	X	392	52.373	17.902	49.891	0.00	0.00
ATOM	5914	CG	GLU	X	392	50.764	17.630	48.464	0.00	0.00
ATOM	5915	HG2	GLU	X	392	50.649	16.712	49.040	0.00	0.00
ATOM	5916	HG3	GLU	X	392	49.976	18.323	48.759	0.00	0.00
ATOM	5917	CD	GLU	X	392	50.631	17.259	46.999	0.00	0.00
ATOM	5918	OE1	GLU	X	392	50.827	16.078	46.663	0.00	0.00
ATOM	5919	OE2	GLU	X	392	50.343	18.225	46.244	0.00	0.00
ATOM	5920	C	GLU	X	392	51.996	20.526	49.778	0.00	0.00
ATOM	5921	O	GLU	X	392	50.807	21.003	49.798	0.00	0.00
ATOM	5922	N	ALA	X	393	52.847	20.679	50.839	0.00	0.00
ATOM	5923	H	ALA	X	393	53.692	20.129	50.786	0.00	0.00
ATOM	5924	CA	ALA	X	393	52.627	21.451	51.990	0.00	0.00
ATOM	5925	HA	ALA	X	393	51.656	21.274	52.453	0.00	0.00
ATOM	5926	CB	ALA	X	393	53.632	21.013	53.034	0.00	0.00
ATOM	5927	HB1	ALA	X	393	53.535	19.930	53.114	0.00	0.00
ATOM	5928	HB2	ALA	X	393	53.597	21.587	53.961	0.00	0.00
ATOM	5929	HB3	ALA	X	393	54.640	21.218	52.676	0.00	0.00
ATOM	5930	C	ALA	X	393	52.675	22.951	51.591	0.00	0.00
ATOM	5931	O	ALA	X	393	51.731	23.684	51.710	0.00	0.00
ATOM	5932	N	LEU	X	394	53.740	23.544	51.030	0.00	0.00
ATOM	5933	H	LEU	X	394	54.505	22.917	50.824	0.00	0.00
ATOM	5934	CA	LEU	X	394	53.863	24.936	50.574	0.00	0.00
ATOM	5935	HA	LEU	X	394	53.776	25.520	51.490	0.00	0.00
ATOM	5936	CB	LEU	X	394	55.234	25.062	49.982	0.00	0.00
ATOM	5937	HB2	LEU	X	394	55.967	24.580	50.629	0.00	0.00
ATOM	5938	HB3	LEU	X	394	55.354	24.494	49.059	0.00	0.00
ATOM	5939	CG	LEU	X	394	55.667	26.539	49.693	0.00	0.00
ATOM	5940	HG	LEU	X	394	54.865	27.068	49.178	0.00	0.00

ATOM	5941	CD1	LEU	X	394	56.064	27.236	50.967	0.00	0.00
ATOM	5942	HD11	LEU	X	394	56.504	28.202	50.722	0.00	0.00
ATOM	5943	HD12	LEU	X	394	56.848	26.751	51.549	0.00	0.00
ATOM	5944	HD13	LEU	X	394	55.217	27.468	51.613	0.00	0.00
ATOM	5945	CD2	LEU	X	394	56.930	26.403	48.820	0.00	0.00
ATOM	5946	HD21	LEU	X	394	57.495	27.320	48.650	0.00	0.00
ATOM	5947	HD22	LEU	X	394	57.665	25.714	49.235	0.00	0.00
ATOM	5948	HD23	LEU	X	394	56.662	26.011	47.838	0.00	0.00
ATOM	5949	C	LEU	X	394	52.683	25.422	49.738	0.00	0.00
ATOM	5950	O	LEU	X	394	52.170	26.478	50.050	0.00	0.00
ATOM	5951	N	SER	X	395	52.261	24.647	48.756	0.00	0.00
ATOM	5952	H	SER	X	395	52.822	23.838	48.528	0.00	0.00
ATOM	5953	CA	SER	X	395	51.228	25.094	47.802	0.00	0.00
ATOM	5954	HA	SER	X	395	51.492	26.042	47.334	0.00	0.00
ATOM	5955	CB	SER	X	395	51.038	24.142	46.623	0.00	0.00
ATOM	5956	HB2	SER	X	395	50.629	23.186	46.952	0.00	0.00
ATOM	5957	HB3	SER	X	395	50.241	24.493	45.969	0.00	0.00
ATOM	5958	OG	SER	X	395	52.277	23.834	45.933	0.00	0.00
ATOM	5959	HG	SER	X	395	52.620	22.967	46.162	0.00	0.00
ATOM	5960	C	SER	X	395	49.892	25.275	48.604	0.00	0.00
ATOM	5961	O	SER	X	395	49.147	26.183	48.400	0.00	0.00
ATOM	5962	N	ASP	X	396	49.674	24.456	49.664	0.00	0.00
ATOM	5963	H	ASP	X	396	50.359	23.740	49.860	0.00	0.00
ATOM	5964	CA	ASP	X	396	48.619	24.601	50.660	0.00	0.00
ATOM	5965	HA	ASP	X	396	47.614	24.737	50.260	0.00	0.00
ATOM	5966	CB	ASP	X	396	48.537	23.322	51.550	0.00	0.00
ATOM	5967	HB2	ASP	X	396	49.495	22.853	51.776	0.00	0.00
ATOM	5968	HB3	ASP	X	396	48.212	23.733	52.506	0.00	0.00
ATOM	5969	CG	ASP	X	396	47.489	22.278	51.220	0.00	0.00
ATOM	5970	OD1	ASP	X	396	47.073	22.164	50.075	0.00	0.00
ATOM	5971	OD2	ASP	X	396	47.194	21.494	52.188	0.00	0.00
ATOM	5972	C	ASP	X	396	48.780	25.887	51.453	0.00	0.00
ATOM	5973	O	ASP	X	396	47.908	26.769	51.298	0.00	0.00
ATOM	5974	N	VAL	X	397	49.855	26.097	52.148	0.00	0.00
ATOM	5975	H	VAL	X	397	50.402	25.262	52.304	0.00	0.00
ATOM	5976	CA	VAL	X	397	50.264	27.335	52.874	0.00	0.00
ATOM	5977	HA	VAL	X	397	49.628	27.458	53.751	0.00	0.00
ATOM	5978	CB	VAL	X	397	51.746	27.369	53.354	0.00	0.00
ATOM	5979	HB	VAL	X	397	52.444	27.185	52.537	0.00	0.00
ATOM	5980	CG1	VAL	X	397	52.241	28.707	54.038	0.00	0.00
ATOM	5981	HG11	VAL	X	397	51.555	29.017	54.826	0.00	0.00
ATOM	5982	HG12	VAL	X	397	53.236	28.563	54.459	0.00	0.00
ATOM	5983	HG13	VAL	X	397	52.409	29.552	53.371	0.00	0.00
ATOM	5984	CG2	VAL	X	397	52.105	26.272	54.339	0.00	0.00
ATOM	5985	HG21	VAL	X	397	53.177	26.251	54.539	0.00	0.00
ATOM	5986	HG22	VAL	X	397	51.764	25.316	53.943	0.00	0.00
ATOM	5987	HG23	VAL	X	397	51.771	26.520	55.347	0.00	0.00
ATOM	5988	C	VAL	X	397	49.946	28.573	52.059	0.00	0.00
ATOM	5989	O	VAL	X	397	49.223	29.485	52.463	0.00	0.00
ATOM	5990	N	VAL	X	398	50.525	28.592	50.872	0.00	0.00
ATOM	5991	H	VAL	X	398	51.083	27.794	50.603	0.00	0.00
ATOM	5992	CA	VAL	X	398	50.476	29.680	49.909	0.00	0.00
ATOM	5993	HA	VAL	X	398	50.787	30.559	50.473	0.00	0.00
ATOM	5994	CB	VAL	X	398	51.589	29.485	48.756	0.00	0.00
ATOM	5995	HB	VAL	X	398	51.370	28.507	48.327	0.00	0.00
ATOM	5996	CG1	VAL	X	398	51.471	30.495	47.593	0.00	0.00
ATOM	5997	HG11	VAL	X	398	50.545	30.374	47.031	0.00	0.00
ATOM	5998	HG12	VAL	X	398	51.598	31.520	47.942	0.00	0.00
ATOM	5999	HG13	VAL	X	398	52.269	30.218	46.904	0.00	0.00
ATOM	6000	CG2	VAL	X	398	53.042	29.533	49.261	0.00	0.00
ATOM	6001	HG21	VAL	X	398	53.532	30.506	49.243	0.00	0.00
ATOM	6002	HG22	VAL	X	398	53.630	29.033	48.491	0.00	0.00
ATOM	6003	HG23	VAL	X	398	53.181	28.950	50.171	0.00	0.00
ATOM	6004	C	VAL	X	398	49.068	30.028	49.269	0.00	0.00
ATOM	6005	O	VAL	X	398	48.853	31.220	48.961	0.00	0.00
ATOM	6006	N	GLY	X	399	48.087	29.054	49.185	0.00	0.00
ATOM	6007	H	GLY	X	399	48.245	28.149	49.604	0.00	0.00

ATOM	6008	CA	GLY	X	399	46.699	29.345	48.805	0.00	0.00
ATOM	6009	HA2	GLY	X	399	46.766	30.199	48.131	0.00	0.00
ATOM	6010	HA3	GLY	X	399	46.279	28.454	48.339	0.00	0.00
ATOM	6011	C	GLY	X	399	45.899	29.657	50.058	0.00	0.00
ATOM	6012	O	GLY	X	399	45.064	30.536	49.992	0.00	0.00
ATOM	6013	N	ASP	X	400	46.167	28.949	51.162	0.00	0.00
ATOM	6014	H	ASP	X	400	46.953	28.315	51.171	0.00	0.00
ATOM	6015	CA	ASP	X	400	45.248	28.882	52.287	0.00	0.00
ATOM	6016	HA	ASP	X	400	44.273	28.654	51.854	0.00	0.00
ATOM	6017	CB	ASP	X	400	45.711	27.832	53.365	0.00	0.00
ATOM	6018	HB2	ASP	X	400	46.705	28.077	53.739	0.00	0.00
ATOM	6019	HB3	ASP	X	400	45.076	27.844	54.251	0.00	0.00
ATOM	6020	CG	ASP	X	400	45.575	26.386	52.854	0.00	0.00
ATOM	6021	OD1	ASP	X	400	44.947	26.015	51.813	0.00	0.00
ATOM	6022	OD2	ASP	X	400	46.114	25.564	53.632	0.00	0.00
ATOM	6023	C	ASP	X	400	45.186	30.268	52.880	0.00	0.00
ATOM	6024	O	ASP	X	400	44.112	30.907	52.803	0.00	0.00
ATOM	6025	N	HIE	X	401	46.304	30.744	53.368	0.00	0.00
ATOM	6026	H	HIE	X	401	47.154	30.204	53.442	0.00	0.00
ATOM	6027	CA	HIE	X	401	46.588	32.030	53.790	0.00	0.00
ATOM	6028	HA	HIE	X	401	46.121	32.128	54.770	0.00	0.00
ATOM	6029	CB	HIE	X	401	48.102	32.239	53.893	0.00	0.00
ATOM	6030	HB2	HIE	X	401	48.566	31.639	54.676	0.00	0.00
ATOM	6031	HB3	HIE	X	401	48.598	31.817	53.019	0.00	0.00
ATOM	6032	CG	HIE	X	401	48.583	33.672	54.072	0.00	0.00
ATOM	6033	ND1	HIE	X	401	47.965	34.583	54.895	0.00	0.00
ATOM	6034	CE1	HIE	X	401	48.865	35.642	54.924	0.00	0.00
ATOM	6035	HE1	HIE	X	401	48.738	36.524	55.535	0.00	0.00
ATOM	6036	NE2	HIE	X	401	49.987	35.380	54.205	0.00	0.00
ATOM	6037	HE2	HIE	X	401	50.771	35.999	54.055	0.00	0.00
ATOM	6038	CD2	HIE	X	401	49.805	34.130	53.692	0.00	0.00
ATOM	6039	HD2	HIE	X	401	50.535	33.605	53.094	0.00	0.00
ATOM	6040	C	HIE	X	401	46.008	33.152	52.810	0.00	0.00
ATOM	6041	O	HIE	X	401	45.173	33.862	53.246	0.00	0.00
ATOM	6042	N	ASN	X	402	46.420	33.216	51.599	0.00	0.00
ATOM	6043	H	ASN	X	402	46.881	32.376	51.280	0.00	0.00
ATOM	6044	CA	ASN	X	402	46.049	34.320	50.624	0.00	0.00
ATOM	6045	HA	ASN	X	402	46.256	35.289	51.079	0.00	0.00
ATOM	6046	CB	ASN	X	402	47.076	34.139	49.532	0.00	0.00
ATOM	6047	HB2	ASN	X	402	47.132	33.123	49.142	0.00	0.00
ATOM	6048	HB3	ASN	X	402	46.678	34.665	48.664	0.00	0.00
ATOM	6049	CG	ASN	X	402	48.393	34.842	49.811	0.00	0.00
ATOM	6050	OD1	ASN	X	402	48.451	35.889	50.400	0.00	0.00
ATOM	6051	ND2	ASN	X	402	49.460	34.095	49.657	0.00	0.00
ATOM	6052	HD21	ASN	X	402	50.329	34.411	50.064	0.00	0.00
ATOM	6053	HD22	ASN	X	402	49.412	33.146	49.313	0.00	0.00
ATOM	6054	C	ASN	X	402	44.588	34.220	50.232	0.00	0.00
ATOM	6055	O	ASN	X	402	44.048	35.238	49.969	0.00	0.00
ATOM	6056	N	VAL	X	403	43.979	33.034	50.105	0.00	0.00
ATOM	6057	H	VAL	X	403	44.498	32.218	50.397	0.00	0.00
ATOM	6058	CA	VAL	X	403	42.701	32.806	49.466	0.00	0.00
ATOM	6059	HA	VAL	X	403	42.132	33.733	49.388	0.00	0.00
ATOM	6060	CB	VAL	X	403	42.788	32.195	48.097	0.00	0.00
ATOM	6061	HB	VAL	X	403	43.327	31.248	48.125	0.00	0.00
ATOM	6062	CG1	VAL	X	403	41.405	32.008	47.436	0.00	0.00
ATOM	6063	HG11	VAL	X	403	40.745	31.322	47.967	0.00	0.00
ATOM	6064	HG12	VAL	X	403	40.820	32.925	47.503	0.00	0.00
ATOM	6065	HG13	VAL	X	403	41.458	31.762	46.376	0.00	0.00
ATOM	6066	CG2	VAL	X	403	43.521	33.162	47.179	0.00	0.00
ATOM	6067	HG21	VAL	X	403	44.537	33.231	47.567	0.00	0.00
ATOM	6068	HG22	VAL	X	403	43.004	34.098	47.390	0.00	0.00
ATOM	6069	HG23	VAL	X	403	43.489	32.996	46.102	0.00	0.00
ATOM	6070	C	VAL	X	403	41.766	31.862	50.290	0.00	0.00
ATOM	6071	O	VAL	X	403	40.684	32.327	50.736	0.00	0.00
ATOM	6072	N	VAL	X	404	42.101	30.595	50.471	0.00	0.00
ATOM	6073	H	VAL	X	404	43.050	30.389	50.192	0.00	0.00
ATOM	6074	CA	VAL	X	404	41.145	29.502	50.707	0.00	0.00

ATOM	6075	HA	VAL	X	404	40.347	29.620	49.974	0.00	0.00
ATOM	6076	CB	VAL	X	404	41.794	28.129	50.534	0.00	0.00
ATOM	6077	HB	VAL	X	404	42.462	27.905	51.366	0.00	0.00
ATOM	6078	CG1	VAL	X	404	40.698	27.096	50.362	0.00	0.00
ATOM	6079	HG11	VAL	X	404	40.070	27.045	51.251	0.00	0.00
ATOM	6080	HG12	VAL	X	404	40.098	27.171	49.454	0.00	0.00
ATOM	6081	HG13	VAL	X	404	41.164	26.112	50.392	0.00	0.00
ATOM	6082	CG2	VAL	X	404	42.546	28.033	49.173	0.00	0.00
ATOM	6083	HG21	VAL	X	404	41.848	28.308	48.383	0.00	0.00
ATOM	6084	HG22	VAL	X	404	42.990	27.044	49.059	0.00	0.00
ATOM	6085	HG23	VAL	X	404	43.412	28.693	49.223	0.00	0.00
ATOM	6086	C	VAL	X	404	40.568	29.652	52.091	0.00	0.00
ATOM	6087	O	VAL	X	404	39.360	29.515	52.154	0.00	0.00
ATOM	6088	N	CYX	X	405	41.393	29.982	53.123	0.00	0.00
ATOM	6089	H	CYX	X	405	42.354	30.228	52.933	0.00	0.00
ATOM	6090	CA	CYX	X	405	40.948	30.341	54.435	0.00	0.00
ATOM	6091	HA	CYX	X	405	40.172	29.598	54.620	0.00	0.00
ATOM	6092	CB	CYX	X	405	41.997	30.145	55.528	0.00	0.00
ATOM	6093	HB2	CYX	X	405	42.923	30.678	55.312	0.00	0.00
ATOM	6094	HB3	CYX	X	405	41.622	30.497	56.489	0.00	0.00
ATOM	6095	SG	CYX	X	405	42.272	28.322	55.857	0.00	0.00
ATOM	6096	C	CYX	X	405	40.033	31.560	54.543	0.00	0.00
ATOM	6097	O	CYX	X	405	38.916	31.367	55.010	0.00	0.00
ATOM	6098	N	PRO	X	406	40.445	32.791	54.047	0.00	0.00
ATOM	6099	CD	PRO	X	406	41.731	33.063	53.587	0.00	0.00
ATOM	6100	HD2	PRO	X	406	42.052	32.377	52.803	0.00	0.00
ATOM	6101	HD3	PRO	X	406	42.431	33.164	54.416	0.00	0.00
ATOM	6102	CG	PRO	X	406	41.729	34.552	53.064	0.00	0.00
ATOM	6103	HG2	PRO	X	406	42.320	34.621	52.151	0.00	0.00
ATOM	6104	HG3	PRO	X	406	42.133	35.319	53.725	0.00	0.00
ATOM	6105	CB	PRO	X	406	40.290	34.863	52.839	0.00	0.00
ATOM	6106	HB2	PRO	X	406	40.043	34.638	51.801	0.00	0.00
ATOM	6107	HB3	PRO	X	406	40.092	35.886	53.159	0.00	0.00
ATOM	6108	CA	PRO	X	406	39.558	33.936	53.756	0.00	0.00
ATOM	6109	HA	PRO	X	406	39.307	34.505	54.651	0.00	0.00
ATOM	6110	C	PRO	X	406	38.223	33.591	53.130	0.00	0.00
ATOM	6111	O	PRO	X	406	37.259	34.054	53.631	0.00	0.00
ATOM	6112	N	VAL	X	407	38.161	32.649	52.148	0.00	0.00
ATOM	6113	H	VAL	X	407	39.049	32.444	51.714	0.00	0.00
ATOM	6114	CA	VAL	X	407	36.848	32.122	51.630	0.00	0.00
ATOM	6115	HA	VAL	X	407	36.284	33.052	51.562	0.00	0.00
ATOM	6116	CB	VAL	X	407	37.008	31.472	50.227	0.00	0.00
ATOM	6117	HB	VAL	X	407	37.837	30.766	50.177	0.00	0.00
ATOM	6118	CG1	VAL	X	407	35.757	30.621	49.823	0.00	0.00
ATOM	6119	HG11	VAL	X	407	34.871	31.254	49.770	0.00	0.00
ATOM	6120	HG12	VAL	X	407	35.915	30.261	48.806	0.00	0.00
ATOM	6121	HG13	VAL	X	407	35.591	29.758	50.468	0.00	0.00
ATOM	6122	CG2	VAL	X	407	37.165	32.515	49.078	0.00	0.00
ATOM	6123	HG21	VAL	X	407	37.997	33.150	49.383	0.00	0.00
ATOM	6124	HG22	VAL	X	407	36.299	33.168	49.176	0.00	0.00
ATOM	6125	HG23	VAL	X	407	37.284	32.099	48.077	0.00	0.00
ATOM	6126	C	VAL	X	407	36.017	31.389	52.642	0.00	0.00
ATOM	6127	O	VAL	X	407	34.827	31.670	52.679	0.00	0.00
ATOM	6128	N	ALA	X	408	36.645	30.479	53.478	0.00	0.00
ATOM	6129	H	ALA	X	408	37.645	30.515	53.338	0.00	0.00
ATOM	6130	CA	ALA	X	408	35.938	29.672	54.464	0.00	0.00
ATOM	6131	HA	ALA	X	408	34.997	29.263	54.097	0.00	0.00
ATOM	6132	CB	ALA	X	408	36.824	28.500	54.870	0.00	0.00
ATOM	6133	HB1	ALA	X	408	36.983	27.800	54.049	0.00	0.00
ATOM	6134	HB2	ALA	X	408	36.301	27.946	55.649	0.00	0.00
ATOM	6135	HB3	ALA	X	408	37.776	28.823	55.290	0.00	0.00
ATOM	6136	C	ALA	X	408	35.548	30.637	55.663	0.00	0.00
ATOM	6137	O	ALA	X	408	34.562	30.465	56.309	0.00	0.00
ATOM	6138	N	GLN	X	409	36.132	31.816	55.843	0.00	0.00
ATOM	6139	H	GLN	X	409	36.979	32.051	55.346	0.00	0.00
ATOM	6140	CA	GLN	X	409	35.720	32.879	56.753	0.00	0.00
ATOM	6141	HA	GLN	X	409	35.450	32.450	57.718	0.00	0.00

ATOM	6142	CB	GLN	X	409	36.961	33.840	56.912	0.00	0.00
ATOM	6143	HB2	GLN	X	409	37.791	33.383	57.450	0.00	0.00
ATOM	6144	HB3	GLN	X	409	37.378	34.323	56.028	0.00	0.00
ATOM	6145	CG	GLN	X	409	36.656	35.027	57.813	0.00	0.00
ATOM	6146	HG2	GLN	X	409	37.561	35.634	57.855	0.00	0.00
ATOM	6147	HG3	GLN	X	409	35.781	35.623	57.553	0.00	0.00
ATOM	6148	CD	GLN	X	409	36.434	34.628	59.281	0.00	0.00
ATOM	6149	OE1	GLN	X	409	35.401	34.227	59.732	0.00	0.00
ATOM	6150	NE2	GLN	X	409	37.371	34.718	60.179	0.00	0.00
ATOM	6151	HE21	GLN	X	409	37.105	34.418	61.106	0.00	0.00
ATOM	6152	HE22	GLN	X	409	38.328	34.987	60.002	0.00	0.00
ATOM	6153	C	GLN	X	409	34.456	33.550	56.183	0.00	0.00
ATOM	6154	O	GLN	X	409	33.438	33.630	56.883	0.00	0.00
ATOM	6155	N	LEU	X	410	34.666	34.000	54.885	0.00	0.00
ATOM	6156	H	LEU	X	410	35.519	33.865	54.361	0.00	0.00
ATOM	6157	CA	LEU	X	410	33.606	34.865	54.390	0.00	0.00
ATOM	6158	HA	LEU	X	410	33.400	35.627	55.142	0.00	0.00
ATOM	6159	CB	LEU	X	410	33.918	35.349	52.970	0.00	0.00
ATOM	6160	HB2	LEU	X	410	34.815	35.960	53.074	0.00	0.00
ATOM	6161	HB3	LEU	X	410	34.025	34.371	52.502	0.00	0.00
ATOM	6162	CG	LEU	X	410	32.991	36.304	52.319	0.00	0.00
ATOM	6163	HG	LEU	X	410	32.083	35.721	52.164	0.00	0.00
ATOM	6164	CD1	LEU	X	410	32.642	37.573	53.179	0.00	0.00
ATOM	6165	HD11	LEU	X	410	32.170	38.261	52.477	0.00	0.00
ATOM	6166	HD12	LEU	X	410	33.582	38.048	53.461	0.00	0.00
ATOM	6167	HD13	LEU	X	410	31.918	37.338	53.959	0.00	0.00
ATOM	6168	CD2	LEU	X	410	33.570	36.912	50.977	0.00	0.00
ATOM	6169	HD21	LEU	X	410	33.648	36.079	50.279	0.00	0.00
ATOM	6170	HD22	LEU	X	410	32.935	37.613	50.435	0.00	0.00
ATOM	6171	HD23	LEU	X	410	34.587	37.299	51.031	0.00	0.00
ATOM	6172	C	LEU	X	410	32.269	34.035	54.352	0.00	0.00
ATOM	6173	O	LEU	X	410	31.116	34.554	54.602	0.00	0.00
ATOM	6174	N	ALA	X	411	32.434	32.756	53.984	0.00	0.00
ATOM	6175	H	ALA	X	411	33.375	32.514	53.707	0.00	0.00
ATOM	6176	CA	ALA	X	411	31.312	31.827	53.692	0.00	0.00
ATOM	6177	HA	ALA	X	411	30.620	32.334	53.019	0.00	0.00
ATOM	6178	CB	ALA	X	411	31.842	30.479	53.127	0.00	0.00
ATOM	6179	HB1	ALA	X	411	31.126	30.092	52.402	0.00	0.00
ATOM	6180	HB2	ALA	X	411	32.189	29.815	53.919	0.00	0.00
ATOM	6181	HB3	ALA	X	411	32.654	30.682	52.428	0.00	0.00
ATOM	6182	C	ALA	X	411	30.516	31.516	54.954	0.00	0.00
ATOM	6183	O	ALA	X	411	29.294	31.409	54.896	0.00	0.00
ATOM	6184	N	GLY	X	412	31.285	31.389	56.090	0.00	0.00
ATOM	6185	H	GLY	X	412	32.250	31.685	56.098	0.00	0.00
ATOM	6186	CA	GLY	X	412	30.696	31.223	57.421	0.00	0.00
ATOM	6187	HA2	GLY	X	412	29.836	30.564	57.302	0.00	0.00
ATOM	6188	HA3	GLY	X	412	31.366	30.822	58.181	0.00	0.00
ATOM	6189	C	GLY	X	412	30.114	32.540	58.027	0.00	0.00
ATOM	6190	O	GLY	X	412	29.074	32.456	58.675	0.00	0.00
ATOM	6191	N	ARG	X	413	30.788	33.694	57.833	0.00	0.00
ATOM	6192	H	ARG	X	413	31.625	33.659	57.268	0.00	0.00
ATOM	6193	CA	ARG	X	413	30.237	35.102	58.221	0.00	0.00
ATOM	6194	HA	ARG	X	413	30.013	35.140	59.287	0.00	0.00
ATOM	6195	CB	ARG	X	413	31.310	36.140	57.844	0.00	0.00
ATOM	6196	HB2	ARG	X	413	31.565	35.957	56.800	0.00	0.00
ATOM	6197	HB3	ARG	X	413	30.839	37.111	57.992	0.00	0.00
ATOM	6198	CG	ARG	X	413	32.526	36.133	58.801	0.00	0.00
ATOM	6199	HG2	ARG	X	413	32.840	35.118	59.045	0.00	0.00
ATOM	6200	HG3	ARG	X	413	33.361	36.586	58.266	0.00	0.00
ATOM	6201	CD	ARG	X	413	32.318	36.907	60.108	0.00	0.00
ATOM	6202	HD2	ARG	X	413	31.819	37.854	59.904	0.00	0.00
ATOM	6203	HD3	ARG	X	413	31.714	36.305	60.787	0.00	0.00
ATOM	6204	NE	ARG	X	413	33.627	37.221	60.735	0.00	0.00
ATOM	6205	HE	ARG	X	413	34.436	37.155	60.134	0.00	0.00
ATOM	6206	CZ	ARG	X	413	33.766	37.737	61.918	0.00	0.00
ATOM	6207	NH1	ARG	X	413	32.780	38.009	62.771	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.823	37.902	62.466	0.00	0.00

ATOM	6209	HH12	ARG	X	413	32.908	38.385	63.699	0.00	0.00
ATOM	6210	NH2	ARG	X	413	34.901	38.087	62.426	0.00	0.00
ATOM	6211	HH21	ARG	X	413	35.726	37.984	61.853	0.00	0.00
ATOM	6212	HH22	ARG	X	413	35.012	38.361	63.392	0.00	0.00
ATOM	6213	C	ARG	X	413	28.942	35.470	57.543	0.00	0.00
ATOM	6214	O	ARG	X	413	27.959	35.770	58.241	0.00	0.00
ATOM	6215	N	LEU	X	414	28.935	35.457	56.200	0.00	0.00
ATOM	6216	H	LEU	X	414	29.793	35.152	55.761	0.00	0.00
ATOM	6217	CA	LEU	X	414	27.717	35.617	55.333	0.00	0.00
ATOM	6218	HA	LEU	X	414	27.543	36.682	55.180	0.00	0.00
ATOM	6219	CB	LEU	X	414	27.999	35.166	53.867	0.00	0.00
ATOM	6220	HB2	LEU	X	414	28.668	34.305	53.910	0.00	0.00
ATOM	6221	HB3	LEU	X	414	27.061	34.919	53.371	0.00	0.00
ATOM	6222	CG	LEU	X	414	28.699	36.204	52.990	0.00	0.00
ATOM	6223	HG	LEU	X	414	29.639	36.404	53.505	0.00	0.00
ATOM	6224	CD1	LEU	X	414	29.160	35.584	51.712	0.00	0.00
ATOM	6225	HD11	LEU	X	414	29.806	36.338	51.261	0.00	0.00
ATOM	6226	HD12	LEU	X	414	28.263	35.341	51.143	0.00	0.00
ATOM	6227	HD13	LEU	X	414	29.801	34.720	51.890	0.00	0.00
ATOM	6228	CD2	LEU	X	414	27.999	37.553	52.773	0.00	0.00
ATOM	6229	HD21	LEU	X	414	28.117	38.198	53.644	0.00	0.00
ATOM	6230	HD22	LEU	X	414	28.386	38.141	51.941	0.00	0.00
ATOM	6231	HD23	LEU	X	414	26.947	37.401	52.534	0.00	0.00
ATOM	6232	C	LEU	X	414	26.500	34.906	55.976	0.00	0.00
ATOM	6233	O	LEU	X	414	25.503	35.668	56.078	0.00	0.00
ATOM	6234	N	ALA	X	415	26.528	33.619	56.206	0.00	0.00
ATOM	6235	H	ALA	X	415	27.367	33.144	55.906	0.00	0.00
ATOM	6236	CA	ALA	X	415	25.389	32.803	56.620	0.00	0.00
ATOM	6237	HA	ALA	X	415	24.552	33.099	55.988	0.00	0.00
ATOM	6238	CB	ALA	X	415	25.739	31.344	56.326	0.00	0.00
ATOM	6239	HB1	ALA	X	415	24.948	30.706	56.719	0.00	0.00
ATOM	6240	HB2	ALA	X	415	26.645	31.197	56.913	0.00	0.00
ATOM	6241	HB3	ALA	X	415	25.957	31.049	55.299	0.00	0.00
ATOM	6242	C	ALA	X	415	24.882	33.060	58.046	0.00	0.00
ATOM	6243	O	ALA	X	415	23.695	33.065	58.304	0.00	0.00
ATOM	6244	N	ALA	X	416	25.765	33.231	59.036	0.00	0.00
ATOM	6245	H	ALA	X	416	26.709	33.104	58.700	0.00	0.00
ATOM	6246	CA	ALA	X	416	25.445	33.562	60.426	0.00	0.00
ATOM	6247	HA	ALA	X	416	24.556	32.944	60.550	0.00	0.00
ATOM	6248	CB	ALA	X	416	26.494	33.146	61.451	0.00	0.00
ATOM	6249	HB1	ALA	X	416	26.799	32.103	61.367	0.00	0.00
ATOM	6250	HB2	ALA	X	416	26.079	33.388	62.430	0.00	0.00
ATOM	6251	HB3	ALA	X	416	27.282	33.898	61.417	0.00	0.00
ATOM	6252	C	ALA	X	416	25.125	35.057	60.581	0.00	0.00
ATOM	6253	O	ALA	X	416	24.148	35.371	61.298	0.00	0.00
ATOM	6254	N	GLN	X	417	25.666	35.981	59.744	0.00	0.00
ATOM	6255	H	GLN	X	417	26.361	35.645	59.091	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.202	37.354	59.547	0.00	0.00
ATOM	6257	HA	GLN	X	417	24.684	37.741	60.425	0.00	0.00
ATOM	6258	CB	GLN	X	417	26.416	38.308	59.346	0.00	0.00
ATOM	6259	HB2	GLN	X	417	27.046	38.003	58.510	0.00	0.00
ATOM	6260	HB3	GLN	X	417	26.099	39.327	59.124	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.176	38.315	60.626	0.00	0.00
ATOM	6262	HG2	GLN	X	417	26.580	38.985	61.246	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.086	37.374	61.167	0.00	0.00
ATOM	6264	CD	GLN	X	417	28.645	38.775	60.521	0.00	0.00
ATOM	6265	OE1	GLN	X	417	29.553	38.019	60.906	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.994	39.867	59.825	0.00	0.00
ATOM	6267	HE21	GLN	X	417	29.985	40.058	59.780	0.00	0.00
ATOM	6268	HE22	GLN	X	417	28.270	40.383	59.347	0.00	0.00
ATOM	6269	C	GLN	X	417	24.121	37.527	58.407	0.00	0.00
ATOM	6270	O	GLN	X	417	23.805	38.659	57.988	0.00	0.00
ATOM	6271	N	GLY	X	418	23.575	36.475	57.898	0.00	0.00
ATOM	6272	H	GLY	X	418	24.056	35.628	58.166	0.00	0.00
ATOM	6273	CA	GLY	X	418	22.176	36.435	57.443	0.00	0.00
ATOM	6274	HA2	GLY	X	418	21.625	35.571	57.813	0.00	0.00
ATOM	6275	HA3	GLY	X	418	21.650	37.339	57.751	0.00	0.00

ATOM	6276	C	GLY	X	418	21.940	36.301	55.919	0.00	0.00
ATOM	6277	O	GLY	X	418	20.838	36.471	55.430	0.00	0.00
ATOM	6278	N	ALA	X	419	22.986	36.132	55.077	0.00	0.00
ATOM	6279	H	ALA	X	419	23.899	36.124	55.509	0.00	0.00
ATOM	6280	CA	ALA	X	419	23.031	35.904	53.649	0.00	0.00
ATOM	6281	HA	ALA	X	419	22.113	36.355	53.273	0.00	0.00
ATOM	6282	CB	ALA	X	419	24.298	36.484	52.986	0.00	0.00
ATOM	6283	HB1	ALA	X	419	25.206	36.066	53.419	0.00	0.00
ATOM	6284	HB2	ALA	X	419	24.226	37.518	53.322	0.00	0.00
ATOM	6285	HB3	ALA	X	419	24.261	36.374	51.902	0.00	0.00
ATOM	6286	C	ALA	X	419	22.859	34.456	53.178	0.00	0.00
ATOM	6287	O	ALA	X	419	23.244	33.494	53.842	0.00	0.00
ATOM	6288	N	ARG	X	420	22.348	34.238	51.978	0.00	0.00
ATOM	6289	H	ARG	X	420	22.148	35.098	51.488	0.00	0.00
ATOM	6290	CA	ARG	X	420	22.213	32.947	51.307	0.00	0.00
ATOM	6291	HA	ARG	X	420	22.190	32.145	52.044	0.00	0.00
ATOM	6292	CB	ARG	X	420	20.896	32.962	50.383	0.00	0.00
ATOM	6293	HB2	ARG	X	420	20.099	33.107	51.112	0.00	0.00
ATOM	6294	HB3	ARG	X	420	20.994	33.770	49.658	0.00	0.00
ATOM	6295	CG	ARG	X	420	20.677	31.556	49.789	0.00	0.00
ATOM	6296	HG2	ARG	X	420	21.333	31.452	48.925	0.00	0.00
ATOM	6297	HG3	ARG	X	420	20.897	30.822	50.564	0.00	0.00
ATOM	6298	CD	ARG	X	420	19.216	31.387	49.354	0.00	0.00
ATOM	6299	HD2	ARG	X	420	18.642	31.444	50.278	0.00	0.00
ATOM	6300	HD3	ARG	X	420	18.921	32.244	48.747	0.00	0.00
ATOM	6301	NE	ARG	X	420	18.911	30.107	48.553	0.00	0.00
ATOM	6302	HE	ARG	X	420	19.564	29.342	48.647	0.00	0.00
ATOM	6303	CZ	ARG	X	420	17.948	29.754	47.742	0.00	0.00
ATOM	6304	NH1	ARG	X	420	16.994	30.594	47.409	0.00	0.00
ATOM	6305	HH11	ARG	X	420	16.996	31.473	47.907	0.00	0.00
ATOM	6306	HH12	ARG	X	420	16.151	30.333	46.918	0.00	0.00
ATOM	6307	NH2	ARG	X	420	17.743	28.545	47.311	0.00	0.00
ATOM	6308	HH21	ARG	X	420	18.476	27.886	47.533	0.00	0.00
ATOM	6309	HH22	ARG	X	420	17.080	28.469	46.554	0.00	0.00
ATOM	6310	C	ARG	X	420	23.525	32.840	50.531	0.00	0.00
ATOM	6311	O	ARG	X	420	23.973	33.658	49.763	0.00	0.00
ATOM	6312	N	VAL	X	421	24.180	31.701	50.762	0.00	0.00
ATOM	6313	H	VAL	X	421	23.829	30.976	51.370	0.00	0.00
ATOM	6314	CA	VAL	X	421	25.530	31.457	50.270	0.00	0.00
ATOM	6315	HA	VAL	X	421	25.882	32.184	49.538	0.00	0.00
ATOM	6316	CB	VAL	X	421	26.469	31.311	51.563	0.00	0.00
ATOM	6317	HB	VAL	X	421	26.363	30.327	52.018	0.00	0.00
ATOM	6318	CG1	VAL	X	421	27.922	31.353	51.063	0.00	0.00
ATOM	6319	HG11	VAL	X	421	28.205	32.404	51.004	0.00	0.00
ATOM	6320	HG12	VAL	X	421	28.657	30.819	51.666	0.00	0.00
ATOM	6321	HG13	VAL	X	421	28.022	31.012	50.032	0.00	0.00
ATOM	6322	CG2	VAL	X	421	26.279	32.493	52.547	0.00	0.00
ATOM	6323	HG21	VAL	X	421	26.885	32.435	53.451	0.00	0.00
ATOM	6324	HG22	VAL	X	421	25.253	32.466	52.913	0.00	0.00
ATOM	6325	HG23	VAL	X	421	26.424	33.464	52.075	0.00	0.00
ATOM	6326	C	VAL	X	421	25.585	30.049	49.642	0.00	0.00
ATOM	6327	O	VAL	X	421	25.019	29.142	50.295	0.00	0.00
ATOM	6328	N	TYR	X	422	26.279	29.901	48.455	0.00	0.00
ATOM	6329	H	TYR	X	422	26.535	30.809	48.094	0.00	0.00
ATOM	6330	CA	TYR	X	422	26.750	28.675	47.842	0.00	0.00
ATOM	6331	HA	TYR	X	422	26.460	27.801	48.426	0.00	0.00
ATOM	6332	CB	TYR	X	422	26.039	28.413	46.561	0.00	0.00
ATOM	6333	HB2	TYR	X	422	26.231	29.318	45.984	0.00	0.00
ATOM	6334	HB3	TYR	X	422	26.580	27.673	45.971	0.00	0.00
ATOM	6335	CG	TYR	X	422	24.534	28.127	46.621	0.00	0.00
ATOM	6336	CD1	TYR	X	422	24.099	26.779	46.501	0.00	0.00
ATOM	6337	HD1	TYR	X	422	24.768	25.933	46.433	0.00	0.00
ATOM	6338	CE1	TYR	X	422	22.709	26.528	46.685	0.00	0.00
ATOM	6339	HE1	TYR	X	422	22.396	25.494	46.715	0.00	0.00
ATOM	6340	CZ	TYR	X	422	21.753	27.608	46.908	0.00	0.00
ATOM	6341	OH	TYR	X	422	20.419	27.328	46.993	0.00	0.00
ATOM	6342	HH	TYR	X	422	20.188	26.489	46.587	0.00	0.00

ATOM	6343	CE2	TYR	X	422	22.234	28.906	47.064	0.00	0.00
ATOM	6344	HE2	TYR	X	422	21.497	29.695	47.066	0.00	0.00
ATOM	6345	CD2	TYR	X	422	23.617	29.148	46.973	0.00	0.00
ATOM	6346	HD2	TYR	X	422	23.965	30.170	47.019	0.00	0.00
ATOM	6347	C	TYR	X	422	28.310	28.584	47.701	0.00	0.00
ATOM	6348	O	TYR	X	422	28.930	29.601	47.315	0.00	0.00
ATOM	6349	N	ALA	X	423	28.887	27.438	48.047	0.00	0.00
ATOM	6350	H	ALA	X	423	28.261	26.758	48.455	0.00	0.00
ATOM	6351	CA	ALA	X	423	30.339	27.034	48.095	0.00	0.00
ATOM	6352	HA	ALA	X	423	30.991	27.822	47.718	0.00	0.00
ATOM	6353	CB	ALA	X	423	30.840	26.759	49.529	0.00	0.00
ATOM	6354	HB1	ALA	X	423	30.786	27.745	49.990	0.00	0.00
ATOM	6355	HB2	ALA	X	423	31.894	26.483	49.564	0.00	0.00
ATOM	6356	HB3	ALA	X	423	30.324	25.975	50.083	0.00	0.00
ATOM	6357	C	ALA	X	423	30.681	25.834	47.184	0.00	0.00
ATOM	6358	O	ALA	X	423	30.047	24.831	47.206	0.00	0.00
ATOM	6359	N	TYR	X	424	31.908	25.937	46.641	0.00	0.00
ATOM	6360	H	TYR	X	424	32.381	26.827	46.709	0.00	0.00
ATOM	6361	CA	TYR	X	424	32.567	24.934	45.773	0.00	0.00
ATOM	6362	HA	TYR	X	424	32.283	23.947	46.138	0.00	0.00
ATOM	6363	CB	TYR	X	424	32.081	25.205	44.368	0.00	0.00
ATOM	6364	HB2	TYR	X	424	32.126	24.294	43.773	0.00	0.00
ATOM	6365	HB3	TYR	X	424	31.024	25.469	44.400	0.00	0.00
ATOM	6366	CG	TYR	X	424	32.844	26.287	43.686	0.00	0.00
ATOM	6367	CD1	TYR	X	424	34.019	25.969	42.916	0.00	0.00
ATOM	6368	HD1	TYR	X	424	34.323	24.933	42.929	0.00	0.00
ATOM	6369	CE1	TYR	X	424	34.758	26.999	42.240	0.00	0.00
ATOM	6370	HE1	TYR	X	424	35.620	26.707	41.659	0.00	0.00
ATOM	6371	CZ	TYR	X	424	34.271	28.328	42.208	0.00	0.00
ATOM	6372	OH	TYR	X	424	34.946	29.327	41.647	0.00	0.00
ATOM	6373	HH	TYR	X	424	35.591	29.008	41.012	0.00	0.00
ATOM	6374	CE2	TYR	X	424	33.096	28.647	42.896	0.00	0.00
ATOM	6375	HE2	TYR	X	424	32.708	29.650	42.797	0.00	0.00
ATOM	6376	CD2	TYR	X	424	32.432	27.654	43.654	0.00	0.00
ATOM	6377	HD2	TYR	X	424	31.558	27.888	44.243	0.00	0.00
ATOM	6378	C	TYR	X	424	34.078	24.900	45.750	0.00	0.00
ATOM	6379	O	TYR	X	424	34.808	25.803	46.179	0.00	0.00
ATOM	6380	N	VAL	X	425	34.676	23.773	45.273	0.00	0.00
ATOM	6381	H	VAL	X	425	34.081	22.985	45.061	0.00	0.00
ATOM	6382	CA	VAL	X	425	36.116	23.465	45.124	0.00	0.00
ATOM	6383	HA	VAL	X	425	36.667	24.395	44.984	0.00	0.00
ATOM	6384	CB	VAL	X	425	36.783	22.688	46.347	0.00	0.00
ATOM	6385	HB	VAL	X	425	36.118	21.837	46.495	0.00	0.00
ATOM	6386	CG1	VAL	X	425	38.228	22.156	46.146	0.00	0.00
ATOM	6387	HG11	VAL	X	425	38.305	21.382	45.382	0.00	0.00
ATOM	6388	HG12	VAL	X	425	38.848	23.039	45.991	0.00	0.00
ATOM	6389	HG13	VAL	X	425	38.575	21.635	47.038	0.00	0.00
ATOM	6390	CG2	VAL	X	425	36.667	23.543	47.626	0.00	0.00
ATOM	6391	HG21	VAL	X	425	37.285	24.441	47.633	0.00	0.00
ATOM	6392	HG22	VAL	X	425	36.996	22.976	48.496	0.00	0.00
ATOM	6393	HG23	VAL	X	425	35.643	23.840	47.850	0.00	0.00
ATOM	6394	C	VAL	X	425	36.157	22.609	43.908	0.00	0.00
ATOM	6395	O	VAL	X	425	35.363	21.609	43.694	0.00	0.00
ATOM	6396	N	PHE	X	426	36.948	23.165	42.964	0.00	0.00
ATOM	6397	H	PHE	X	426	37.555	23.938	43.193	0.00	0.00
ATOM	6398	CA	PHE	X	426	36.957	22.762	41.572	0.00	0.00
ATOM	6399	HA	PHE	X	426	36.007	22.244	41.435	0.00	0.00
ATOM	6400	CB	PHE	X	426	36.885	24.047	40.738	0.00	0.00
ATOM	6401	HB2	PHE	X	426	36.097	24.765	40.961	0.00	0.00
ATOM	6402	HB3	PHE	X	426	37.784	24.628	40.946	0.00	0.00
ATOM	6403	CG	PHE	X	426	36.999	23.829	39.255	0.00	0.00
ATOM	6404	CD1	PHE	X	426	35.801	23.689	38.489	0.00	0.00
ATOM	6405	HD1	PHE	X	426	34.860	23.829	39.000	0.00	0.00
ATOM	6406	CE1	PHE	X	426	35.898	23.485	37.075	0.00	0.00
ATOM	6407	HE1	PHE	X	426	34.985	23.307	36.526	0.00	0.00
ATOM	6408	CZ	PHE	X	426	37.173	23.286	36.491	0.00	0.00
ATOM	6409	HZ	PHE	X	426	37.220	23.076	35.433	0.00	0.00

ATOM	6410	CE2	PHE	X	426	38.370	23.334	37.340	0.00	0.00
ATOM	6411	HE2	PHE	X	426	39.349	23.028	37.003	0.00	0.00
ATOM	6412	CD2	PHE	X	426	38.263	23.636	38.660	0.00	0.00
ATOM	6413	HD2	PHE	X	426	39.106	23.718	39.329	0.00	0.00
ATOM	6414	C	PHE	X	426	38.106	21.741	41.302	0.00	0.00
ATOM	6415	O	PHE	X	426	39.265	22.090	41.284	0.00	0.00
ATOM	6416	N	GLU	X	427	37.783	20.460	41.082	0.00	0.00
ATOM	6417	H	GLU	X	427	36.859	20.057	41.023	0.00	0.00
ATOM	6418	CA	GLU	X	427	38.788	19.400	41.224	0.00	0.00
ATOM	6419	HA	GLU	X	427	39.798	19.777	41.383	0.00	0.00
ATOM	6420	CB	GLU	X	427	38.388	18.430	42.353	0.00	0.00
ATOM	6421	HB2	GLU	X	427	39.177	17.678	42.370	0.00	0.00
ATOM	6422	HB3	GLU	X	427	38.275	18.874	43.342	0.00	0.00
ATOM	6423	CG	GLU	X	427	37.040	17.609	42.178	0.00	0.00
ATOM	6424	HG2	GLU	X	427	36.244	18.348	42.268	0.00	0.00
ATOM	6425	HG3	GLU	X	427	36.974	17.138	41.197	0.00	0.00
ATOM	6426	CD	GLU	X	427	36.823	16.503	43.244	0.00	0.00
ATOM	6427	OE1	GLU	X	427	37.338	16.636	44.300	0.00	0.00
ATOM	6428	OE2	GLU	X	427	36.108	15.539	42.839	0.00	0.00
ATOM	6429	C	GLU	X	427	38.978	18.533	40.005	0.00	0.00
ATOM	6430	O	GLU	X	427	40.024	17.866	39.955	0.00	0.00
ATOM	6431	N	HIE	X	428	38.244	18.785	38.914	0.00	0.00
ATOM	6432	H	HIE	X	428	37.421	19.359	39.028	0.00	0.00
ATOM	6433	CA	HIE	X	428	38.639	18.439	37.540	0.00	0.00
ATOM	6434	HA	HIE	X	428	38.881	17.378	37.595	0.00	0.00
ATOM	6435	CB	HIE	X	428	37.371	18.608	36.715	0.00	0.00
ATOM	6436	HB2	HIE	X	428	36.611	17.908	37.065	0.00	0.00
ATOM	6437	HB3	HIE	X	428	36.927	19.594	36.848	0.00	0.00
ATOM	6438	CG	HIE	X	428	37.634	18.335	35.236	0.00	0.00
ATOM	6439	ND1	HIE	X	428	37.902	17.031	34.724	0.00	0.00
ATOM	6440	CE1	HIE	X	428	38.259	17.181	33.429	0.00	0.00
ATOM	6441	HE1	HIE	X	428	38.564	16.366	32.789	0.00	0.00
ATOM	6442	NE2	HIE	X	428	38.326	18.509	33.118	0.00	0.00
ATOM	6443	HE2	HIE	X	428	38.583	18.838	32.198	0.00	0.00
ATOM	6444	CD2	HIE	X	428	37.909	19.218	34.239	0.00	0.00
ATOM	6445	HD2	HIE	X	428	37.872	20.296	34.279	0.00	0.00
ATOM	6446	C	HIE	X	428	39.857	19.306	37.075	0.00	0.00
ATOM	6447	O	HIE	X	428	39.896	20.518	37.206	0.00	0.00
ATOM	6448	N	ARG	X	429	40.915	18.689	36.553	0.00	0.00
ATOM	6449	H	ARG	X	429	40.982	17.686	36.649	0.00	0.00
ATOM	6450	CA	ARG	X	429	41.873	19.266	35.630	0.00	0.00
ATOM	6451	HA	ARG	X	429	42.043	20.279	35.993	0.00	0.00
ATOM	6452	CB	ARG	X	429	43.182	18.396	35.879	0.00	0.00
ATOM	6453	HB2	ARG	X	429	43.253	18.235	36.955	0.00	0.00
ATOM	6454	HB3	ARG	X	429	43.115	17.372	35.512	0.00	0.00
ATOM	6455	CG	ARG	X	429	44.457	19.200	35.367	0.00	0.00
ATOM	6456	HG2	ARG	X	429	44.551	19.062	34.289	0.00	0.00
ATOM	6457	HG3	ARG	X	429	44.286	20.255	35.580	0.00	0.00
ATOM	6458	CD	ARG	X	429	45.762	18.586	35.945	0.00	0.00
ATOM	6459	HD2	ARG	X	429	45.607	18.327	36.993	0.00	0.00
ATOM	6460	HD3	ARG	X	429	46.009	17.656	35.435	0.00	0.00
ATOM	6461	NE	ARG	X	429	46.906	19.499	35.840	0.00	0.00
ATOM	6462	HE	ARG	X	429	46.871	20.263	36.499	0.00	0.00
ATOM	6463	CZ	ARG	X	429	47.740	19.547	34.804	0.00	0.00
ATOM	6464	NH1	ARG	X	429	47.610	18.754	33.806	0.00	0.00
ATOM	6465	HH11	ARG	X	429	46.923	18.013	33.791	0.00	0.00
ATOM	6466	HH12	ARG	X	429	48.236	18.815	33.016	0.00	0.00
ATOM	6467	NH2	ARG	X	429	48.664	20.519	34.639	0.00	0.00
ATOM	6468	HH21	ARG	X	429	49.029	20.984	35.458	0.00	0.00
ATOM	6469	HH22	ARG	X	429	49.205	20.576	33.788	0.00	0.00
ATOM	6470	C	ARG	X	429	41.493	19.257	34.179	0.00	0.00
ATOM	6471	O	ARG	X	429	41.223	18.172	33.629	0.00	0.00
ATOM	6472	N	ALA	X	430	41.445	20.417	33.492	0.00	0.00
ATOM	6473	H	ALA	X	430	41.815	21.213	33.992	0.00	0.00
ATOM	6474	CA	ALA	X	430	41.165	20.584	32.012	0.00	0.00
ATOM	6475	HA	ALA	X	430	40.150	20.358	31.686	0.00	0.00
ATOM	6476	CB	ALA	X	430	41.353	22.076	31.593	0.00	0.00

ATOM	6477	HB1	ALA	X	430	40.617	22.738	32.050	0.00	0.00
ATOM	6478	HB2	ALA	X	430	41.198	22.280	30.534	0.00	0.00
ATOM	6479	HB3	ALA	X	430	42.390	22.366	31.762	0.00	0.00
ATOM	6480	C	ALA	X	430	42.082	19.631	31.214	0.00	0.00
ATOM	6481	O	ALA	X	430	43.332	19.644	31.364	0.00	0.00
ATOM	6482	N	SER	X	431	41.623	18.778	30.305	0.00	0.00
ATOM	6483	H	SER	X	431	40.622	18.695	30.197	0.00	0.00
ATOM	6484	CA	SER	X	431	42.403	17.973	29.428	0.00	0.00
ATOM	6485	HA	SER	X	431	43.043	17.378	30.079	0.00	0.00
ATOM	6486	CB	SER	X	431	41.450	17.172	28.605	0.00	0.00
ATOM	6487	HB2	SER	X	431	41.947	16.590	27.829	0.00	0.00
ATOM	6488	HB3	SER	X	431	40.863	16.470	29.198	0.00	0.00
ATOM	6489	OG	SER	X	431	40.607	18.053	27.821	0.00	0.00
ATOM	6490	HG	SER	X	431	39.770	18.014	28.289	0.00	0.00
ATOM	6491	C	SER	X	431	43.273	18.794	28.495	0.00	0.00
ATOM	6492	O	SER	X	431	44.131	18.259	27.787	0.00	0.00
ATOM	6493	N	THR	X	432	42.943	20.076	28.400	0.00	0.00
ATOM	6494	H	THR	X	432	42.082	20.334	28.860	0.00	0.00
ATOM	6495	CA	THR	X	432	43.514	21.084	27.570	0.00	0.00
ATOM	6496	HA	THR	X	432	44.341	20.605	27.045	0.00	0.00
ATOM	6497	CB	THR	X	432	42.493	21.534	26.514	0.00	0.00
ATOM	6498	HB	THR	X	432	41.771	22.193	26.996	0.00	0.00
ATOM	6499	CG2	THR	X	432	43.268	22.366	25.583	0.00	0.00
ATOM	6500	HG21	THR	X	432	42.531	22.810	24.913	0.00	0.00
ATOM	6501	HG22	THR	X	432	43.920	21.768	24.946	0.00	0.00
ATOM	6502	HG23	THR	X	432	43.851	23.132	26.094	0.00	0.00
ATOM	6503	OG1	THR	X	432	41.808	20.439	25.881	0.00	0.00
ATOM	6504	HG1	THR	X	432	41.406	19.933	26.591	0.00	0.00
ATOM	6505	C	THR	X	432	44.163	22.180	28.427	0.00	0.00
ATOM	6506	O	THR	X	432	43.488	23.036	28.938	0.00	0.00
ATOM	6507	N	LEU	X	433	45.423	22.122	28.673	0.00	0.00
ATOM	6508	H	LEU	X	433	46.016	21.392	28.303	0.00	0.00
ATOM	6509	CA	LEU	X	433	46.105	23.043	29.635	0.00	0.00
ATOM	6510	HA	LEU	X	433	45.724	24.038	29.404	0.00	0.00
ATOM	6511	CB	LEU	X	433	45.836	22.585	31.151	0.00	0.00
ATOM	6512	HB2	LEU	X	433	44.777	22.507	31.398	0.00	0.00
ATOM	6513	HB3	LEU	X	433	46.280	21.592	31.213	0.00	0.00
ATOM	6514	CG	LEU	X	433	46.452	23.483	32.274	0.00	0.00
ATOM	6515	HG	LEU	X	433	47.541	23.493	32.217	0.00	0.00
ATOM	6516	CD1	LEU	X	433	45.878	24.892	32.306	0.00	0.00
ATOM	6517	HD11	LEU	X	433	46.224	25.537	31.498	0.00	0.00
ATOM	6518	HD12	LEU	X	433	46.118	25.274	33.298	0.00	0.00
ATOM	6519	HD13	LEU	X	433	44.792	24.925	32.214	0.00	0.00
ATOM	6520	CD2	LEU	X	433	46.174	22.829	33.595	0.00	0.00
ATOM	6521	HD21	LEU	X	433	46.601	21.827	33.552	0.00	0.00
ATOM	6522	HD22	LEU	X	433	46.627	23.341	34.445	0.00	0.00
ATOM	6523	HD23	LEU	X	433	45.116	22.666	33.802	0.00	0.00
ATOM	6524	C	LEU	X	433	47.651	23.053	29.385	0.00	0.00
ATOM	6525	O	LEU	X	433	48.279	22.045	29.222	0.00	0.00
ATOM	6526	N	SER	X	434	48.166	24.228	29.429	0.00	0.00
ATOM	6527	H	SER	X	434	47.484	24.968	29.341	0.00	0.00
ATOM	6528	CA	SER	X	434	49.556	24.504	29.098	0.00	0.00
ATOM	6529	HA	SER	X	434	49.799	23.811	28.293	0.00	0.00
ATOM	6530	CB	SER	X	434	49.694	25.979	28.551	0.00	0.00
ATOM	6531	HB2	SER	X	434	50.737	26.162	28.290	0.00	0.00
ATOM	6532	HB3	SER	X	434	49.032	26.160	27.704	0.00	0.00
ATOM	6533	OG	SER	X	434	49.286	26.859	29.639	0.00	0.00
ATOM	6534	HG	SER	X	434	48.381	26.586	29.806	0.00	0.00
ATOM	6535	C	SER	X	434	50.646	24.062	30.072	0.00	0.00
ATOM	6536	O	SER	X	434	51.829	23.888	29.690	0.00	0.00
ATOM	6537	N	TRP	X	435	50.292	23.926	31.348	0.00	0.00
ATOM	6538	H	TRP	X	435	49.308	23.950	31.573	0.00	0.00
ATOM	6539	CA	TRP	X	435	51.120	23.853	32.527	0.00	0.00
ATOM	6540	HA	TRP	X	435	52.087	24.327	32.357	0.00	0.00
ATOM	6541	CB	TRP	X	435	50.414	24.593	33.669	0.00	0.00
ATOM	6542	HB2	TRP	X	435	49.470	24.150	33.986	0.00	0.00
ATOM	6543	HB3	TRP	X	435	51.033	24.376	34.540	0.00	0.00

ATOM	6544	CG	TRP	X	435	50.237	26.034	33.642	0.00	0.00
ATOM	6545	CD1	TRP	X	435	49.187	26.714	33.166	0.00	0.00
ATOM	6546	HD1	TRP	X	435	48.368	26.269	32.620	0.00	0.00
ATOM	6547	NE1	TRP	X	435	49.275	28.010	33.359	0.00	0.00
ATOM	6548	HE1	TRP	X	435	48.640	28.705	32.994	0.00	0.00
ATOM	6549	CE2	TRP	X	435	50.552	28.345	33.779	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	51.074	29.652	33.828	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	50.490	30.509	33.526	0.00	0.00
ATOM	6552	CH2	TRP	X	435	52.412	29.744	34.200	0.00	0.00
ATOM	6553	HH2	TRP	X	435	52.925	30.683	34.346	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	53.196	28.609	34.586	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	54.217	28.693	34.927	0.00	0.00
ATOM	6556	CE3	TRP	X	435	52.587	27.305	34.375	0.00	0.00
ATOM	6557	HE3	TRP	X	435	53.172	26.410	34.528	0.00	0.00
ATOM	6558	CD2	TRP	X	435	51.204	27.106	34.032	0.00	0.00
ATOM	6559	C	TRP	X	435	51.467	22.384	32.887	0.00	0.00
ATOM	6560	O	TRP	X	435	50.641	21.568	32.604	0.00	0.00
ATOM	6561	N	PRO	X	436	52.486	22.095	33.737	0.00	0.00
ATOM	6562	CD	PRO	X	436	53.528	23.078	34.139	0.00	0.00
ATOM	6563	HD2	PRO	X	436	53.134	23.951	34.659	0.00	0.00
ATOM	6564	HD3	PRO	X	436	54.093	23.468	33.293	0.00	0.00
ATOM	6565	CG	PRO	X	436	54.443	22.301	35.022	0.00	0.00
ATOM	6566	HG2	PRO	X	436	54.006	22.327	36.021	0.00	0.00
ATOM	6567	HG3	PRO	X	436	55.462	22.686	35.041	0.00	0.00
ATOM	6568	CB	PRO	X	436	54.339	20.869	34.471	0.00	0.00
ATOM	6569	HB2	PRO	X	436	54.661	20.034	35.094	0.00	0.00
ATOM	6570	HB3	PRO	X	436	55.041	20.851	33.637	0.00	0.00
ATOM	6571	CA	PRO	X	436	52.884	20.744	34.070	0.00	0.00
ATOM	6572	HA	PRO	X	436	52.778	20.093	33.203	0.00	0.00
ATOM	6573	C	PRO	X	436	51.991	20.158	35.225	0.00	0.00
ATOM	6574	O	PRO	X	436	51.448	20.816	36.117	0.00	0.00
ATOM	6575	N	LEU	X	437	52.044	18.885	35.271	0.00	0.00
ATOM	6576	H	LEU	X	437	52.752	18.366	34.772	0.00	0.00
ATOM	6577	CA	LEU	X	437	51.071	18.031	36.090	0.00	0.00
ATOM	6578	HA	LEU	X	437	50.040	18.241	35.805	0.00	0.00
ATOM	6579	CB	LEU	X	437	51.475	16.590	35.798	0.00	0.00
ATOM	6580	HB2	LEU	X	437	51.869	16.513	34.785	0.00	0.00
ATOM	6581	HB3	LEU	X	437	52.377	16.324	36.348	0.00	0.00
ATOM	6582	CG	LEU	X	437	50.374	15.540	36.140	0.00	0.00
ATOM	6583	HG	LEU	X	437	50.189	15.669	37.207	0.00	0.00
ATOM	6584	CD1	LEU	X	437	49.058	15.656	35.303	0.00	0.00
ATOM	6585	HD11	LEU	X	437	48.529	16.601	35.419	0.00	0.00
ATOM	6586	HD12	LEU	X	437	48.312	14.962	35.692	0.00	0.00
ATOM	6587	HD13	LEU	X	437	49.186	15.542	34.227	0.00	0.00
ATOM	6588	CD2	LEU	X	437	50.860	14.080	36.096	0.00	0.00
ATOM	6589	HD21	LEU	X	437	50.096	13.501	36.615	0.00	0.00
ATOM	6590	HD22	LEU	X	437	51.010	13.667	35.099	0.00	0.00
ATOM	6591	HD23	LEU	X	437	51.780	13.950	36.665	0.00	0.00
ATOM	6592	C	LEU	X	437	51.224	18.266	37.591	0.00	0.00
ATOM	6593	O	LEU	X	437	50.254	18.176	38.408	0.00	0.00
ATOM	6594	N	TRP	X	438	52.466	18.504	37.902	0.00	0.00
ATOM	6595	H	TRP	X	438	53.131	18.441	37.145	0.00	0.00
ATOM	6596	CA	TRP	X	438	52.934	18.643	39.282	0.00	0.00
ATOM	6597	HA	TRP	X	438	52.762	17.695	39.791	0.00	0.00
ATOM	6598	CB	TRP	X	438	54.463	18.767	39.318	0.00	0.00
ATOM	6599	HB2	TRP	X	438	54.860	18.421	40.272	0.00	0.00
ATOM	6600	HB3	TRP	X	438	54.779	17.944	38.676	0.00	0.00
ATOM	6601	CG	TRP	X	438	55.107	19.948	38.778	0.00	0.00
ATOM	6602	CD1	TRP	X	438	55.775	20.009	37.588	0.00	0.00
ATOM	6603	HD1	TRP	X	438	55.898	19.195	36.889	0.00	0.00
ATOM	6604	NE1	TRP	X	438	56.370	21.225	37.491	0.00	0.00
ATOM	6605	HE1	TRP	X	438	57.086	21.356	36.791	0.00	0.00
ATOM	6606	CE2	TRP	X	438	55.936	22.039	38.512	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	56.313	23.319	38.972	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	57.029	23.854	38.365	0.00	0.00
ATOM	6609	CH2	TRP	X	438	55.987	23.795	40.215	0.00	0.00
ATOM	6610	HH2	TRP	X	438	56.255	24.818	40.432	0.00	0.00

ATOM	6611	CZ3	TRP	X	438	55.079	23.054	40.980	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	54.709	23.400	41.933	0.00	0.00
ATOM	6613	CE3	TRP	X	438	54.720	21.743	40.627	0.00	0.00
ATOM	6614	HE3	TRP	X	438	54.037	21.108	41.173	0.00	0.00
ATOM	6615	CD2	TRP	X	438	55.155	21.222	39.398	0.00	0.00
ATOM	6616	C	TRP	X	438	52.128	19.749	40.038	0.00	0.00
ATOM	6617	O	TRP	X	438	52.005	19.767	41.252	0.00	0.00
ATOM	6618	N	MET	X	439	51.653	20.729	39.239	0.00	0.00
ATOM	6619	H	MET	X	439	51.881	20.778	38.256	0.00	0.00
ATOM	6620	CA	MET	X	439	50.933	21.855	39.820	0.00	0.00
ATOM	6621	HA	MET	X	439	51.512	22.136	40.699	0.00	0.00
ATOM	6622	CB	MET	X	439	50.903	23.019	38.875	0.00	0.00
ATOM	6623	HB2	MET	X	439	50.535	22.661	37.914	0.00	0.00
ATOM	6624	HB3	MET	X	439	50.316	23.809	39.344	0.00	0.00
ATOM	6625	CG	MET	X	439	52.342	23.623	38.665	0.00	0.00
ATOM	6626	HG2	MET	X	439	52.771	24.054	39.569	0.00	0.00
ATOM	6627	HG3	MET	X	439	53.030	22.847	38.329	0.00	0.00
ATOM	6628	SD	MET	X	439	52.422	24.795	37.335	0.00	0.00
ATOM	6629	CE	MET	X	439	51.367	26.172	37.987	0.00	0.00
ATOM	6630	HE1	MET	X	439	51.963	26.742	38.699	0.00	0.00
ATOM	6631	HE2	MET	X	439	51.133	26.926	37.235	0.00	0.00
ATOM	6632	HE3	MET	X	439	50.406	25.795	38.336	0.00	0.00
ATOM	6633	C	MET	X	439	49.501	21.505	40.262	0.00	0.00
ATOM	6634	O	MET	X	439	48.979	22.266	41.092	0.00	0.00
ATOM	6635	N	GLY	X	440	48.894	20.409	39.745	0.00	0.00
ATOM	6636	H	GLY	X	440	49.488	19.803	39.197	0.00	0.00
ATOM	6637	CA	GLY	X	440	47.391	20.234	39.935	0.00	0.00
ATOM	6638	HA2	GLY	X	440	47.145	19.199	39.701	0.00	0.00
ATOM	6639	HA3	GLY	X	440	47.152	20.417	40.982	0.00	0.00
ATOM	6640	C	GLY	X	440	46.594	21.197	39.057	0.00	0.00
ATOM	6641	O	GLY	X	440	46.881	21.202	37.840	0.00	0.00
ATOM	6642	N	VAL	X	441	45.685	21.937	39.603	0.00	0.00
ATOM	6643	H	VAL	X	441	45.585	21.760	40.592	0.00	0.00
ATOM	6644	CA	VAL	X	441	44.681	22.790	38.963	0.00	0.00
ATOM	6645	HA	VAL	X	441	44.688	22.725	37.875	0.00	0.00
ATOM	6646	CB	VAL	X	441	43.207	22.333	39.262	0.00	0.00
ATOM	6647	HB	VAL	X	441	43.100	22.485	40.336	0.00	0.00
ATOM	6648	CG1	VAL	X	441	42.177	23.314	38.736	0.00	0.00
ATOM	6649	HG11	VAL	X	441	41.190	22.860	38.812	0.00	0.00
ATOM	6650	HG12	VAL	X	441	42.254	24.226	39.328	0.00	0.00
ATOM	6651	HG13	VAL	X	441	42.365	23.567	37.692	0.00	0.00
ATOM	6652	CG2	VAL	X	441	42.874	20.937	38.935	0.00	0.00
ATOM	6653	HG21	VAL	X	441	41.812	20.753	39.093	0.00	0.00
ATOM	6654	HG22	VAL	X	441	43.581	20.243	39.389	0.00	0.00
ATOM	6655	HG23	VAL	X	441	42.975	20.616	37.899	0.00	0.00
ATOM	6656	C	VAL	X	441	44.837	24.279	39.333	0.00	0.00
ATOM	6657	O	VAL	X	441	44.531	24.650	40.476	0.00	0.00
ATOM	6658	N	PRO	X	442	45.424	25.085	38.449	0.00	0.00
ATOM	6659	CD	PRO	X	442	45.998	24.625	37.175	0.00	0.00
ATOM	6660	HD2	PRO	X	442	45.262	24.115	36.553	0.00	0.00
ATOM	6661	HD3	PRO	X	442	46.844	23.993	37.444	0.00	0.00
ATOM	6662	CG	PRO	X	442	46.669	25.783	36.526	0.00	0.00
ATOM	6663	HG2	PRO	X	442	46.052	26.303	35.794	0.00	0.00
ATOM	6664	HG3	PRO	X	442	47.583	25.614	35.956	0.00	0.00
ATOM	6665	CB	PRO	X	442	46.947	26.799	37.629	0.00	0.00
ATOM	6666	HB2	PRO	X	442	46.745	27.776	37.189	0.00	0.00
ATOM	6667	HB3	PRO	X	442	47.958	26.619	37.994	0.00	0.00
ATOM	6668	CA	PRO	X	442	45.919	26.419	38.700	0.00	0.00
ATOM	6669	HA	PRO	X	442	46.442	26.401	39.655	0.00	0.00
ATOM	6670	C	PRO	X	442	44.907	27.485	38.897	0.00	0.00
ATOM	6671	O	PRO	X	442	43.719	27.329	38.515	0.00	0.00
ATOM	6672	N	HIP	X	443	45.270	28.580	39.575	0.00	0.00
ATOM	6673	H	HIP	X	443	46.145	28.566	40.080	0.00	0.00
ATOM	6674	CA	HIP	X	443	44.453	29.757	39.839	0.00	0.00
ATOM	6675	HA	HIP	X	443	43.630	29.632	40.543	0.00	0.00
ATOM	6676	CB	HIP	X	443	45.533	30.748	40.374	0.00	0.00
ATOM	6677	HB2	HIP	X	443	45.973	30.279	41.254	0.00	0.00

ATOM	6678	HB3	HIP	X	443	46.335	31.003	39.681	0.00	0.00
ATOM	6679	CG	HIP	X	443	45.034	32.121	40.853	0.00	0.00
ATOM	6680	ND1	HIP	X	443	44.211	32.347	41.930	0.00	0.00
ATOM	6681	HD1	HIP	X	443	43.780	31.576	42.420	0.00	0.00
ATOM	6682	CE1	HIP	X	443	43.949	33.667	42.034	0.00	0.00
ATOM	6683	HE1	HIP	X	443	43.393	34.176	42.808	0.00	0.00
ATOM	6684	NE2	HIP	X	443	44.621	34.287	41.029	0.00	0.00
ATOM	6685	HE2	HIP	X	443	44.642	35.285	40.870	0.00	0.00
ATOM	6686	CD2	HIP	X	443	45.246	33.349	40.315	0.00	0.00
ATOM	6687	HD2	HIP	X	443	45.766	33.516	39.383	0.00	0.00
ATOM	6688	C	HIP	X	443	43.803	30.350	38.583	0.00	0.00
ATOM	6689	O	HIP	X	443	44.538	30.792	37.665	0.00	0.00
ATOM	6690	N	GLY	X	444	42.411	30.444	38.511	0.00	0.00
ATOM	6691	H	GLY	X	444	41.900	30.033	39.279	0.00	0.00
ATOM	6692	CA	GLY	X	444	41.723	31.147	37.445	0.00	0.00
ATOM	6693	HA2	GLY	X	444	40.774	31.614	37.710	0.00	0.00
ATOM	6694	HA3	GLY	X	444	42.396	31.967	37.192	0.00	0.00
ATOM	6695	C	GLY	X	444	41.339	30.271	36.211	0.00	0.00
ATOM	6696	O	GLY	X	444	41.173	30.886	35.143	0.00	0.00
ATOM	6697	N	TYR	X	445	41.362	28.920	36.276	0.00	0.00
ATOM	6698	H	TYR	X	445	41.660	28.526	37.157	0.00	0.00
ATOM	6699	CA	TYR	X	445	41.191	28.131	35.029	0.00	0.00
ATOM	6700	HA	TYR	X	445	41.096	28.820	34.190	0.00	0.00
ATOM	6701	CB	TYR	X	445	42.437	27.191	34.924	0.00	0.00
ATOM	6702	HB2	TYR	X	445	42.741	26.696	35.845	0.00	0.00
ATOM	6703	HB3	TYR	X	445	42.162	26.463	34.160	0.00	0.00
ATOM	6704	CG	TYR	X	445	43.723	27.912	34.402	0.00	0.00
ATOM	6705	CD1	TYR	X	445	44.049	27.722	33.008	0.00	0.00
ATOM	6706	HD1	TYR	X	445	43.457	27.069	32.384	0.00	0.00
ATOM	6707	CE1	TYR	X	445	45.083	28.426	32.465	0.00	0.00
ATOM	6708	HE1	TYR	X	445	45.399	28.259	31.445	0.00	0.00
ATOM	6709	CZ	TYR	X	445	45.865	29.252	33.235	0.00	0.00
ATOM	6710	OH	TYR	X	445	46.915	29.953	32.635	0.00	0.00
ATOM	6711	HH	TYR	X	445	46.954	29.934	31.676	0.00	0.00
ATOM	6712	CE2	TYR	X	445	45.581	29.410	34.617	0.00	0.00
ATOM	6713	HE2	TYR	X	445	46.113	30.182	35.154	0.00	0.00
ATOM	6714	CD2	TYR	X	445	44.565	28.711	35.156	0.00	0.00
ATOM	6715	HD2	TYR	X	445	44.218	28.864	36.167	0.00	0.00
ATOM	6716	C	TYR	X	445	39.916	27.339	34.913	0.00	0.00
ATOM	6717	O	TYR	X	445	39.661	26.725	33.903	0.00	0.00
ATOM	6718	N	GLU	X	446	39.017	27.485	35.904	0.00	0.00
ATOM	6719	H	GLU	X	446	39.209	28.155	36.635	0.00	0.00
ATOM	6720	CA	GLU	X	446	37.627	27.055	35.789	0.00	0.00
ATOM	6721	HA	GLU	X	446	37.682	26.086	35.294	0.00	0.00
ATOM	6722	CB	GLU	X	446	36.947	26.896	37.129	0.00	0.00
ATOM	6723	HB2	GLU	X	446	36.159	26.152	37.017	0.00	0.00
ATOM	6724	HB3	GLU	X	446	37.699	26.422	37.760	0.00	0.00
ATOM	6725	CG	GLU	X	446	36.223	28.010	37.869	0.00	0.00
ATOM	6726	HG2	GLU	X	446	35.503	28.588	37.290	0.00	0.00
ATOM	6727	HG3	GLU	X	446	35.629	27.495	38.624	0.00	0.00
ATOM	6728	CD	GLU	X	446	37.203	29.020	38.484	0.00	0.00
ATOM	6729	OE1	GLU	X	446	38.284	29.310	37.863	0.00	0.00
ATOM	6730	OE2	GLU	X	446	36.803	29.469	39.588	0.00	0.00
ATOM	6731	C	GLU	X	446	36.861	28.058	34.904	0.00	0.00
ATOM	6732	O	GLU	X	446	35.927	27.678	34.127	0.00	0.00
ATOM	6733	N	ILE	X	447	37.258	29.293	34.947	0.00	0.00
ATOM	6734	H	ILE	X	447	37.737	29.585	35.787	0.00	0.00
ATOM	6735	CA	ILE	X	447	36.585	30.339	34.147	0.00	0.00
ATOM	6736	HA	ILE	X	447	35.538	30.365	34.449	0.00	0.00
ATOM	6737	CB	ILE	X	447	37.137	31.771	34.438	0.00	0.00
ATOM	6738	HB	ILE	X	447	36.471	32.490	33.959	0.00	0.00
ATOM	6739	CG2	ILE	X	447	36.944	32.090	35.908	0.00	0.00
ATOM	6740	HG21	ILE	X	447	36.877	33.176	35.964	0.00	0.00
ATOM	6741	HG22	ILE	X	447	37.810	31.793	36.500	0.00	0.00
ATOM	6742	HG23	ILE	X	447	36.100	31.635	36.426	0.00	0.00
ATOM	6743	CG1	ILE	X	447	38.557	32.052	33.916	0.00	0.00
ATOM	6744	HG12	ILE	X	447	39.067	32.843	34.466	0.00	0.00

ATOM	6745	HG13	ILE	X	447	39.091	31.105	33.997	0.00	0.00
ATOM	6746	CD1	ILE	X	447	38.607	32.661	32.530	0.00	0.00
ATOM	6747	HD11	ILE	X	447	39.617	32.514	32.148	0.00	0.00
ATOM	6748	HD12	ILE	X	447	38.332	33.709	32.650	0.00	0.00
ATOM	6749	HD13	ILE	X	447	37.936	32.204	31.802	0.00	0.00
ATOM	6750	C	ILE	X	447	36.443	30.054	32.639	0.00	0.00
ATOM	6751	O	ILE	X	447	35.522	30.469	31.956	0.00	0.00
ATOM	6752	N	GLU	X	448	37.226	29.072	32.104	0.00	0.00
ATOM	6753	H	GLU	X	448	37.751	28.539	32.783	0.00	0.00
ATOM	6754	CA	GLU	X	448	37.070	28.671	30.689	0.00	0.00
ATOM	6755	HA	GLU	X	448	36.940	29.516	30.013	0.00	0.00
ATOM	6756	CB	GLU	X	448	38.317	27.968	30.194	0.00	0.00
ATOM	6757	HB2	GLU	X	448	38.352	26.995	30.684	0.00	0.00
ATOM	6758	HB3	GLU	X	448	38.196	27.706	29.143	0.00	0.00
ATOM	6759	CG	GLU	X	448	39.639	28.716	30.352	0.00	0.00
ATOM	6760	HG2	GLU	X	448	39.456	29.788	30.277	0.00	0.00
ATOM	6761	HG3	GLU	X	448	40.042	28.499	31.341	0.00	0.00
ATOM	6762	CD	GLU	X	448	40.644	28.312	29.255	0.00	0.00
ATOM	6763	OE1	GLU	X	448	41.355	27.317	29.498	0.00	0.00
ATOM	6764	OE2	GLU	X	448	40.849	28.898	28.158	0.00	0.00
ATOM	6765	C	GLU	X	448	35.804	27.778	30.461	0.00	0.00
ATOM	6766	O	GLU	X	448	35.248	27.840	29.358	0.00	0.00
ATOM	6767	N	PHE	X	449	35.294	27.030	31.484	0.00	0.00
ATOM	6768	H	PHE	X	449	35.863	27.063	32.318	0.00	0.00
ATOM	6769	CA	PHE	X	449	34.073	26.199	31.533	0.00	0.00
ATOM	6770	HA	PHE	X	449	33.750	25.903	30.534	0.00	0.00
ATOM	6771	CB	PHE	X	449	34.290	25.096	32.551	0.00	0.00
ATOM	6772	HB2	PHE	X	449	34.532	25.443	33.555	0.00	0.00
ATOM	6773	HB3	PHE	X	449	33.381	24.634	32.936	0.00	0.00
ATOM	6774	CG	PHE	X	449	35.382	24.068	32.207	0.00	0.00
ATOM	6775	CD1	PHE	X	449	36.577	24.042	32.957	0.00	0.00
ATOM	6776	HD1	PHE	X	449	36.802	24.859	33.626	0.00	0.00
ATOM	6777	CE1	PHE	X	449	37.546	23.108	32.749	0.00	0.00
ATOM	6778	HE1	PHE	X	449	38.442	23.195	33.345	0.00	0.00
ATOM	6779	CZ	PHE	X	449	37.380	22.127	31.735	0.00	0.00
ATOM	6780	HZ	PHE	X	449	38.207	21.451	31.577	0.00	0.00
ATOM	6781	CE2	PHE	X	449	36.144	22.090	30.995	0.00	0.00
ATOM	6782	HE2	PHE	X	449	36.013	21.550	30.069	0.00	0.00
ATOM	6783	CD2	PHE	X	449	35.163	23.060	31.269	0.00	0.00
ATOM	6784	HD2	PHE	X	449	34.268	23.176	30.676	0.00	0.00
ATOM	6785	C	PHE	X	449	32.854	27.075	31.965	0.00	0.00
ATOM	6786	O	PHE	X	449	31.733	26.790	31.564	0.00	0.00
ATOM	6787	N	ILE	X	450	33.104	28.237	32.595	0.00	0.00
ATOM	6788	H	ILE	X	450	34.001	28.298	33.055	0.00	0.00
ATOM	6789	CA	ILE	X	450	32.134	29.345	32.901	0.00	0.00
ATOM	6790	HA	ILE	X	450	31.213	28.952	33.332	0.00	0.00
ATOM	6791	CB	ILE	X	450	32.666	30.272	34.018	0.00	0.00
ATOM	6792	HB	ILE	X	450	33.544	30.787	33.628	0.00	0.00
ATOM	6793	CG2	ILE	X	450	31.535	31.328	34.331	0.00	0.00
ATOM	6794	HG21	ILE	X	450	30.532	30.929	34.481	0.00	0.00
ATOM	6795	HG22	ILE	X	450	31.498	32.121	33.584	0.00	0.00
ATOM	6796	HG23	ILE	X	450	31.746	31.914	35.225	0.00	0.00
ATOM	6797	CG1	ILE	X	450	33.276	29.674	35.258	0.00	0.00
ATOM	6798	HG12	ILE	X	450	34.056	29.010	34.887	0.00	0.00
ATOM	6799	HG13	ILE	X	450	33.722	30.459	35.869	0.00	0.00
ATOM	6800	CD1	ILE	X	450	32.245	28.897	36.150	0.00	0.00
ATOM	6801	HD11	ILE	X	450	31.707	28.175	35.535	0.00	0.00
ATOM	6802	HD12	ILE	X	450	31.474	29.534	36.584	0.00	0.00
ATOM	6803	HD13	ILE	X	450	32.658	28.325	36.982	0.00	0.00
ATOM	6804	C	ILE	X	450	31.698	30.141	31.723	0.00	0.00
ATOM	6805	O	ILE	X	450	30.504	30.276	31.457	0.00	0.00
ATOM	6806	N	PHE	X	451	32.648	30.577	30.907	0.00	0.00
ATOM	6807	H	PHE	X	451	33.582	30.248	31.108	0.00	0.00
ATOM	6808	CA	PHE	X	451	32.477	31.269	29.676	0.00	0.00
ATOM	6809	HA	PHE	X	451	31.607	31.913	29.799	0.00	0.00
ATOM	6810	CB	PHE	X	451	33.681	32.161	29.343	0.00	0.00
ATOM	6811	HB2	PHE	X	451	34.580	31.552	29.435	0.00	0.00

ATOM	6812	HB3	PHE	X	451	33.747	32.367	28.275	0.00	0.00
ATOM	6813	CG	PHE	X	451	33.652	33.445	30.089	0.00	0.00
ATOM	6814	CD1	PHE	X	451	34.273	33.511	31.341	0.00	0.00
ATOM	6815	HD1	PHE	X	451	34.853	32.719	31.791	0.00	0.00
ATOM	6816	CE1	PHE	X	451	34.163	34.665	32.080	0.00	0.00
ATOM	6817	HE1	PHE	X	451	34.787	34.755	32.957	0.00	0.00
ATOM	6818	CZ	PHE	X	451	33.424	35.745	31.567	0.00	0.00
ATOM	6819	HZ	PHE	X	451	33.447	36.683	32.103	0.00	0.00
ATOM	6820	CE2	PHE	X	451	32.822	35.686	30.265	0.00	0.00
ATOM	6821	HE2	PHE	X	451	32.305	36.518	29.810	0.00	0.00
ATOM	6822	CD2	PHE	X	451	33.044	34.546	29.447	0.00	0.00
ATOM	6823	HD2	PHE	X	451	32.564	34.477	28.482	0.00	0.00
ATOM	6824	C	PHE	X	451	32.190	30.306	28.522	0.00	0.00
ATOM	6825	O	PHE	X	451	31.866	30.740	27.392	0.00	0.00
ATOM	6826	N	GLY	X	452	32.123	28.953	28.697	0.00	0.00
ATOM	6827	H	GLY	X	452	32.311	28.493	29.577	0.00	0.00
ATOM	6828	CA	GLY	X	452	31.626	28.093	27.629	0.00	0.00
ATOM	6829	HA2	GLY	X	452	31.364	27.138	28.084	0.00	0.00
ATOM	6830	HA3	GLY	X	452	30.840	28.672	27.145	0.00	0.00
ATOM	6831	C	GLY	X	452	32.698	27.779	26.617	0.00	0.00
ATOM	6832	O	GLY	X	452	32.353	27.442	25.524	0.00	0.00
ATOM	6833	N	ILE	X	453	33.985	27.798	26.854	0.00	0.00
ATOM	6834	H	ILE	X	453	34.284	28.123	27.762	0.00	0.00
ATOM	6835	CA	ILE	X	453	35.015	27.641	25.812	0.00	0.00
ATOM	6836	HA	ILE	X	453	34.767	28.469	25.148	0.00	0.00
ATOM	6837	CB	ILE	X	453	36.408	27.765	26.445	0.00	0.00
ATOM	6838	HB	ILE	X	453	36.396	27.142	27.339	0.00	0.00
ATOM	6839	CG2	ILE	X	453	37.476	27.161	25.458	0.00	0.00
ATOM	6840	HG21	ILE	X	453	38.408	27.667	25.707	0.00	0.00
ATOM	6841	HG22	ILE	X	453	37.272	27.428	24.420	0.00	0.00
ATOM	6842	HG23	ILE	X	453	37.518	26.080	25.589	0.00	0.00
ATOM	6843	CG1	ILE	X	453	36.771	29.229	26.770	0.00	0.00
ATOM	6844	HG12	ILE	X	453	36.028	29.643	27.452	0.00	0.00
ATOM	6845	HG13	ILE	X	453	37.734	29.198	27.280	0.00	0.00
ATOM	6846	CD1	ILE	X	453	36.917	30.221	25.546	0.00	0.00
ATOM	6847	HD11	ILE	X	453	36.981	31.204	26.013	0.00	0.00
ATOM	6848	HD12	ILE	X	453	36.069	30.071	24.878	0.00	0.00
ATOM	6849	HD13	ILE	X	453	37.859	30.106	25.009	0.00	0.00
ATOM	6850	C	ILE	X	453	34.904	26.306	24.989	0.00	0.00
ATOM	6851	O	ILE	X	453	35.242	26.302	23.799	0.00	0.00
ATOM	6852	N	PRO	X	454	34.554	25.185	25.550	0.00	0.00
ATOM	6853	CD	PRO	X	454	34.430	24.863	26.971	0.00	0.00
ATOM	6854	HD2	PRO	X	454	33.664	25.364	27.562	0.00	0.00
ATOM	6855	HD3	PRO	X	454	35.401	24.848	27.466	0.00	0.00
ATOM	6856	CG	PRO	X	454	33.964	23.392	26.950	0.00	0.00
ATOM	6857	HG2	PRO	X	454	32.888	23.260	26.843	0.00	0.00
ATOM	6858	HG3	PRO	X	454	34.299	22.935	27.882	0.00	0.00
ATOM	6859	CB	PRO	X	454	34.574	22.721	25.765	0.00	0.00
ATOM	6860	HB2	PRO	X	454	34.129	21.765	25.490	0.00	0.00
ATOM	6861	HB3	PRO	X	454	35.587	22.418	26.029	0.00	0.00
ATOM	6862	CA	PRO	X	454	34.553	23.883	24.762	0.00	0.00
ATOM	6863	HA	PRO	X	454	35.484	23.831	24.197	0.00	0.00
ATOM	6864	C	PRO	X	454	33.339	23.757	23.862	0.00	0.00
ATOM	6865	O	PRO	X	454	33.212	22.687	23.232	0.00	0.00
ATOM	6866	N	LEU	X	455	32.497	24.740	23.765	0.00	0.00
ATOM	6867	H	LEU	X	455	32.592	25.481	24.445	0.00	0.00
ATOM	6868	CA	LEU	X	455	31.391	24.673	22.831	0.00	0.00
ATOM	6869	HA	LEU	X	455	30.963	23.679	22.962	0.00	0.00
ATOM	6870	CB	LEU	X	455	30.235	25.683	23.224	0.00	0.00
ATOM	6871	HB2	LEU	X	455	30.751	26.542	23.653	0.00	0.00
ATOM	6872	HB3	LEU	X	455	29.716	25.964	22.307	0.00	0.00
ATOM	6873	CG	LEU	X	455	29.231	25.173	24.183	0.00	0.00
ATOM	6874	HG	LEU	X	455	28.636	26.036	24.481	0.00	0.00
ATOM	6875	CD1	LEU	X	455	28.255	24.146	23.486	0.00	0.00
ATOM	6876	HD11	LEU	X	455	27.373	23.968	24.100	0.00	0.00
ATOM	6877	HD12	LEU	X	455	28.760	23.202	23.280	0.00	0.00
ATOM	6878	HD13	LEU	X	455	27.881	24.598	22.567	0.00	0.00

ATOM	6879	CD2	LEU	X	455	29.742	24.486	25.386	0.00	0.00
ATOM	6880	HD21	LEU	X	455	28.916	24.036	25.937	0.00	0.00
ATOM	6881	HD22	LEU	X	455	30.469	23.701	25.176	0.00	0.00
ATOM	6882	HD23	LEU	X	455	30.121	25.272	26.040	0.00	0.00
ATOM	6883	C	LEU	X	455	31.785	24.863	21.359	0.00	0.00
ATOM	6884	O	LEU	X	455	30.980	24.495	20.466	0.00	0.00
ATOM	6885	N	ASP	X	456	32.992	25.334	21.080	0.00	0.00
ATOM	6886	H	ASP	X	456	33.549	25.632	21.869	0.00	0.00
ATOM	6887	CA	ASP	X	456	33.560	25.359	19.733	0.00	0.00
ATOM	6888	HA	ASP	X	456	32.724	25.564	19.064	0.00	0.00
ATOM	6889	CB	ASP	X	456	34.653	26.457	19.714	0.00	0.00
ATOM	6890	HB2	ASP	X	456	34.313	27.343	20.250	0.00	0.00
ATOM	6891	HB3	ASP	X	456	35.500	26.004	20.230	0.00	0.00
ATOM	6892	CG	ASP	X	456	35.166	26.917	18.347	0.00	0.00
ATOM	6893	OD1	ASP	X	456	35.515	26.016	17.520	0.00	0.00
ATOM	6894	OD2	ASP	X	456	35.223	28.126	18.029	0.00	0.00
ATOM	6895	C	ASP	X	456	34.318	24.063	19.354	0.00	0.00
ATOM	6896	O	ASP	X	456	35.201	23.634	20.134	0.00	0.00
ATOM	6897	N	PRO	X	457	33.962	23.375	18.264	0.00	0.00
ATOM	6898	CD	PRO	X	457	33.030	23.805	17.225	0.00	0.00
ATOM	6899	HD2	PRO	X	457	33.558	24.608	16.710	0.00	0.00
ATOM	6900	HD3	PRO	X	457	32.111	24.232	17.627	0.00	0.00
ATOM	6901	CG	PRO	X	457	32.834	22.645	16.250	0.00	0.00
ATOM	6902	HG2	PRO	X	457	33.449	22.654	15.349	0.00	0.00
ATOM	6903	HG3	PRO	X	457	31.786	22.566	15.961	0.00	0.00
ATOM	6904	CB	PRO	X	457	33.240	21.440	17.040	0.00	0.00
ATOM	6905	HB2	PRO	X	457	33.719	20.633	16.486	0.00	0.00
ATOM	6906	HB3	PRO	X	457	32.363	21.079	17.578	0.00	0.00
ATOM	6907	CA	PRO	X	457	34.333	22.028	17.924	0.00	0.00
ATOM	6908	HA	PRO	X	457	34.228	21.444	18.839	0.00	0.00
ATOM	6909	C	PRO	X	457	35.790	21.876	17.417	0.00	0.00
ATOM	6910	O	PRO	X	457	36.282	20.812	17.064	0.00	0.00
ATOM	6911	N	SER	X	458	36.559	22.979	17.371	0.00	0.00
ATOM	6912	H	SER	X	458	36.100	23.828	17.670	0.00	0.00
ATOM	6913	CA	SER	X	458	38.005	23.037	17.007	0.00	0.00
ATOM	6914	HA	SER	X	458	38.199	22.274	16.253	0.00	0.00
ATOM	6915	CB	SER	X	458	38.240	24.347	16.340	0.00	0.00
ATOM	6916	HB2	SER	X	458	39.250	24.367	15.930	0.00	0.00
ATOM	6917	HB3	SER	X	458	37.560	24.533	15.508	0.00	0.00
ATOM	6918	OG	SER	X	458	38.055	25.339	17.245	0.00	0.00
ATOM	6919	HG	SER	X	458	37.122	25.524	17.374	0.00	0.00
ATOM	6920	C	SER	X	458	39.023	22.761	18.140	0.00	0.00
ATOM	6921	O	SER	X	458	40.218	22.540	17.862	0.00	0.00
ATOM	6922	N	ARG	X	459	38.592	22.845	19.362	0.00	0.00
ATOM	6923	H	ARG	X	459	37.595	22.913	19.510	0.00	0.00
ATOM	6924	CA	ARG	X	459	39.420	22.736	20.568	0.00	0.00
ATOM	6925	HA	ARG	X	459	40.372	23.243	20.409	0.00	0.00
ATOM	6926	CB	ARG	X	459	38.674	23.481	21.622	0.00	0.00
ATOM	6927	HB2	ARG	X	459	37.704	22.994	21.715	0.00	0.00
ATOM	6928	HB3	ARG	X	459	39.259	23.361	22.534	0.00	0.00
ATOM	6929	CG	ARG	X	459	38.504	24.938	21.367	0.00	0.00
ATOM	6930	HG2	ARG	X	459	38.065	25.175	20.398	0.00	0.00
ATOM	6931	HG3	ARG	X	459	37.663	25.206	22.006	0.00	0.00
ATOM	6932	CD	ARG	X	459	39.753	25.746	21.759	0.00	0.00
ATOM	6933	HD2	ARG	X	459	40.261	25.226	22.572	0.00	0.00
ATOM	6934	HD3	ARG	X	459	40.330	25.688	20.836	0.00	0.00
ATOM	6935	NE	ARG	X	459	39.489	27.136	22.030	0.00	0.00
ATOM	6936	HE	ARG	X	459	38.534	27.428	22.182	0.00	0.00
ATOM	6937	CZ	ARG	X	459	40.498	28.063	21.954	0.00	0.00
ATOM	6938	NH1	ARG	X	459	41.818	27.807	21.951	0.00	0.00
ATOM	6939	HH11	ARG	X	459	42.137	26.877	21.718	0.00	0.00
ATOM	6940	HH12	ARG	X	459	42.434	28.600	22.061	0.00	0.00
ATOM	6941	NH2	ARG	X	459	40.200	29.292	22.132	0.00	0.00
ATOM	6942	HH21	ARG	X	459	39.253	29.641	22.118	0.00	0.00
ATOM	6943	HH22	ARG	X	459	40.998	29.788	22.504	0.00	0.00
ATOM	6944	C	ARG	X	459	39.631	21.279	20.926	0.00	0.00
ATOM	6945	O	ARG	X	459	38.939	20.387	20.406	0.00	0.00

ATOM	6946	N	ASN	X	460	40.602	20.926	21.752	0.00	0.00
ATOM	6947	H	ASN	X	460	41.096	21.701	22.169	0.00	0.00
ATOM	6948	CA	ASN	X	460	41.042	19.579	22.208	0.00	0.00
ATOM	6949	HA	ASN	X	460	40.912	18.906	21.360	0.00	0.00
ATOM	6950	CB	ASN	X	460	42.547	19.772	22.467	0.00	0.00
ATOM	6951	HB2	ASN	X	460	43.048	19.931	21.512	0.00	0.00
ATOM	6952	HB3	ASN	X	460	42.705	20.589	23.171	0.00	0.00
ATOM	6953	CG	ASN	X	460	43.169	18.565	23.132	0.00	0.00
ATOM	6954	OD1	ASN	X	460	43.524	17.590	22.483	0.00	0.00
ATOM	6955	ND2	ASN	X	460	43.342	18.489	24.413	0.00	0.00
ATOM	6956	HD21	ASN	X	460	43.778	17.661	24.792	0.00	0.00
ATOM	6957	HD22	ASN	X	460	42.933	19.215	24.984	0.00	0.00
ATOM	6958	C	ASN	X	460	40.247	19.019	23.434	0.00	0.00
ATOM	6959	O	ASN	X	460	40.359	17.832	23.850	0.00	0.00
ATOM	6960	N	TYR	X	461	39.206	19.734	24.018	0.00	0.00
ATOM	6961	H	TYR	X	461	39.107	20.697	23.730	0.00	0.00
ATOM	6962	CA	TYR	X	461	38.495	19.286	25.157	0.00	0.00
ATOM	6963	HA	TYR	X	461	39.268	19.076	25.895	0.00	0.00
ATOM	6964	CB	TYR	X	461	37.596	20.379	25.792	0.00	0.00
ATOM	6965	HB2	TYR	X	461	36.858	20.691	25.054	0.00	0.00
ATOM	6966	HB3	TYR	X	461	36.916	19.917	26.509	0.00	0.00
ATOM	6967	CG	TYR	X	461	38.413	21.423	26.579	0.00	0.00
ATOM	6968	CD1	TYR	X	461	38.927	22.565	25.878	0.00	0.00
ATOM	6969	HD1	TYR	X	461	38.947	22.470	24.802	0.00	0.00
ATOM	6970	CE1	TYR	X	461	39.547	23.611	26.563	0.00	0.00
ATOM	6971	HE1	TYR	X	461	39.875	24.531	26.101	0.00	0.00
ATOM	6972	CZ	TYR	X	461	39.539	23.575	28.007	0.00	0.00
ATOM	6973	OH	TYR	X	461	39.940	24.659	28.700	0.00	0.00
ATOM	6974	HH	TYR	X	461	40.076	24.480	29.634	0.00	0.00
ATOM	6975	CE2	TYR	X	461	38.950	22.527	28.675	0.00	0.00
ATOM	6976	HE2	TYR	X	461	38.938	22.509	29.755	0.00	0.00
ATOM	6977	CD2	TYR	X	461	38.374	21.439	27.990	0.00	0.00
ATOM	6978	HD2	TYR	X	461	37.877	20.600	28.452	0.00	0.00
ATOM	6979	C	TYR	X	461	37.590	18.052	24.874	0.00	0.00
ATOM	6980	O	TYR	X	461	37.247	17.803	23.712	0.00	0.00
ATOM	6981	N	THR	X	462	37.314	17.179	25.771	0.00	0.00
ATOM	6982	H	THR	X	462	37.832	17.209	26.638	0.00	0.00
ATOM	6983	CA	THR	X	462	36.581	15.937	25.533	0.00	0.00
ATOM	6984	HA	THR	X	462	36.876	15.624	24.531	0.00	0.00
ATOM	6985	CB	THR	X	462	37.055	14.894	26.646	0.00	0.00
ATOM	6986	HB	THR	X	462	36.565	13.942	26.441	0.00	0.00
ATOM	6987	CG2	THR	X	462	38.522	14.659	26.625	0.00	0.00
ATOM	6988	HG21	THR	X	462	38.822	13.854	27.296	0.00	0.00
ATOM	6989	HG22	THR	X	462	38.996	15.596	26.920	0.00	0.00
ATOM	6990	HG23	THR	X	462	38.775	14.366	25.607	0.00	0.00
ATOM	6991	OG1	THR	X	462	36.733	15.360	27.960	0.00	0.00
ATOM	6992	HG1	THR	X	462	37.393	16.022	28.180	0.00	0.00
ATOM	6993	C	THR	X	462	35.063	16.143	25.589	0.00	0.00
ATOM	6994	O	THR	X	462	34.549	17.206	25.916	0.00	0.00
ATOM	6995	N	ALA	X	463	34.351	15.091	25.152	0.00	0.00
ATOM	6996	H	ALA	X	463	34.847	14.307	24.754	0.00	0.00
ATOM	6997	CA	ALA	X	463	32.914	15.147	25.004	0.00	0.00
ATOM	6998	HA	ALA	X	463	32.720	16.097	24.506	0.00	0.00
ATOM	6999	CB	ALA	X	463	32.547	13.922	24.149	0.00	0.00
ATOM	7000	HB1	ALA	X	463	33.212	13.836	23.290	0.00	0.00
ATOM	7001	HB2	ALA	X	463	31.564	13.989	23.682	0.00	0.00
ATOM	7002	HB3	ALA	X	463	32.709	12.991	24.692	0.00	0.00
ATOM	7003	C	ALA	X	463	32.158	15.200	26.332	0.00	0.00
ATOM	7004	O	ALA	X	463	31.034	15.628	26.384	0.00	0.00
ATOM	7005	N	GLU	X	464	32.813	14.795	27.415	0.00	0.00
ATOM	7006	H	GLU	X	464	33.790	14.579	27.274	0.00	0.00
ATOM	7007	CA	GLU	X	464	32.376	14.934	28.819	0.00	0.00
ATOM	7008	HA	GLU	X	464	31.286	14.947	28.805	0.00	0.00
ATOM	7009	CB	GLU	X	464	32.700	13.724	29.665	0.00	0.00
ATOM	7010	HB2	GLU	X	464	32.202	13.821	30.631	0.00	0.00
ATOM	7011	HB3	GLU	X	464	32.316	12.925	29.032	0.00	0.00
ATOM	7012	CG	GLU	X	464	34.177	13.453	29.885	0.00	0.00

ATOM	7013	HG2	GLU	X	464	34.701	14.397	29.731	0.00	0.00
ATOM	7014	HG3	GLU	X	464	34.311	13.077	30.900	0.00	0.00
ATOM	7015	CD	GLU	X	464	34.671	12.422	28.876	0.00	0.00
ATOM	7016	OE1	GLU	X	464	34.701	12.732	27.660	0.00	0.00
ATOM	7017	OE2	GLU	X	464	35.017	11.287	29.303	0.00	0.00
ATOM	7018	C	GLU	X	464	32.631	16.293	29.403	0.00	0.00
ATOM	7019	O	GLU	X	464	31.833	16.638	30.250	0.00	0.00
ATOM	7020	N	GLU	X	465	33.727	16.938	29.032	0.00	0.00
ATOM	7021	H	GLU	X	465	34.254	16.628	28.228	0.00	0.00
ATOM	7022	CA	GLU	X	465	34.046	18.332	29.309	0.00	0.00
ATOM	7023	HA	GLU	X	465	33.921	18.488	30.381	0.00	0.00
ATOM	7024	CB	GLU	X	465	35.483	18.715	28.932	0.00	0.00
ATOM	7025	HB2	GLU	X	465	35.649	18.250	27.960	0.00	0.00
ATOM	7026	HB3	GLU	X	465	35.646	19.790	28.848	0.00	0.00
ATOM	7027	CG	GLU	X	465	36.420	18.158	30.045	0.00	0.00
ATOM	7028	HG2	GLU	X	465	36.421	18.880	30.862	0.00	0.00
ATOM	7029	HG3	GLU	X	465	36.128	17.162	30.379	0.00	0.00
ATOM	7030	CD	GLU	X	465	37.887	18.142	29.600	0.00	0.00
ATOM	7031	OE1	GLU	X	465	38.177	17.328	28.666	0.00	0.00
ATOM	7032	OE2	GLU	X	465	38.698	18.871	30.207	0.00	0.00
ATOM	7033	C	GLU	X	465	33.023	19.295	28.711	0.00	0.00
ATOM	7034	O	GLU	X	465	32.663	20.249	29.373	0.00	0.00
ATOM	7035	N	LYS	X	466	32.514	19.078	27.454	0.00	0.00
ATOM	7036	H	LYS	X	466	33.014	18.426	26.867	0.00	0.00
ATOM	7037	CA	LYS	X	466	31.488	20.014	26.865	0.00	0.00
ATOM	7038	HA	LYS	X	466	31.914	21.017	26.865	0.00	0.00
ATOM	7039	CB	LYS	X	466	31.344	19.554	25.377	0.00	0.00
ATOM	7040	HB2	LYS	X	466	32.329	19.396	24.938	0.00	0.00
ATOM	7041	HB3	LYS	X	466	30.889	18.568	25.280	0.00	0.00
ATOM	7042	CG	LYS	X	466	30.597	20.491	24.383	0.00	0.00
ATOM	7043	HG2	LYS	X	466	29.546	20.624	24.640	0.00	0.00
ATOM	7044	HG3	LYS	X	466	31.095	21.457	24.463	0.00	0.00
ATOM	7045	CD	LYS	X	466	30.736	20.194	22.874	0.00	0.00
ATOM	7046	HD2	LYS	X	466	30.500	21.048	22.240	0.00	0.00
ATOM	7047	HD3	LYS	X	466	31.809	20.088	22.710	0.00	0.00
ATOM	7048	CE	LYS	X	466	29.983	18.897	22.470	0.00	0.00
ATOM	7049	HE2	LYS	X	466	30.454	18.582	21.539	0.00	0.00
ATOM	7050	HE3	LYS	X	466	30.084	18.094	23.201	0.00	0.00
ATOM	7051	NZ	LYS	X	466	28.550	19.104	22.114	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	27.946	19.363	22.881	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	28.365	19.843	21.452	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	28.159	18.261	21.719	0.00	0.00
ATOM	7055	C	LYS	X	466	30.128	19.844	27.569	0.00	0.00
ATOM	7056	O	LYS	X	466	29.467	20.914	27.731	0.00	0.00
ATOM	7057	N	ILE	X	467	29.741	18.696	28.088	0.00	0.00
ATOM	7058	H	ILE	X	467	30.309	17.916	27.792	0.00	0.00
ATOM	7059	CA	ILE	X	467	28.550	18.501	28.997	0.00	0.00
ATOM	7060	HA	ILE	X	467	27.606	18.955	28.693	0.00	0.00
ATOM	7061	CB	ILE	X	467	28.258	16.985	29.119	0.00	0.00
ATOM	7062	HB	ILE	X	467	29.156	16.511	29.516	0.00	0.00
ATOM	7063	CG2	ILE	X	467	27.072	16.898	30.174	0.00	0.00
ATOM	7064	HG21	ILE	X	467	26.611	15.916	30.072	0.00	0.00
ATOM	7065	HG22	ILE	X	467	26.224	17.514	29.875	0.00	0.00
ATOM	7066	HG23	ILE	X	467	27.403	16.996	31.208	0.00	0.00
ATOM	7067	CG1	ILE	X	467	27.912	16.231	27.802	0.00	0.00
ATOM	7068	HG12	ILE	X	467	28.680	16.470	27.067	0.00	0.00
ATOM	7069	HG13	ILE	X	467	28.003	15.170	28.034	0.00	0.00
ATOM	7070	CD1	ILE	X	467	26.558	16.638	27.142	0.00	0.00
ATOM	7071	HD11	ILE	X	467	25.770	16.310	27.820	0.00	0.00
ATOM	7072	HD12	ILE	X	467	26.313	16.140	26.204	0.00	0.00
ATOM	7073	HD13	ILE	X	467	26.472	17.725	27.124	0.00	0.00
ATOM	7074	C	ILE	X	467	28.903	19.320	30.314	0.00	0.00
ATOM	7075	O	ILE	X	467	28.021	20.060	30.880	0.00	0.00
ATOM	7076	N	PHE	X	468	30.132	19.175	30.851	0.00	0.00
ATOM	7077	H	PHE	X	468	30.728	18.439	30.500	0.00	0.00
ATOM	7078	CA	PHE	X	468	30.521	19.869	32.107	0.00	0.00
ATOM	7079	HA	PHE	X	468	29.838	19.467	32.854	0.00	0.00

ATOM	7080	CB	PHE	X	468	31.936	19.303	32.518	0.00	0.00
ATOM	7081	HB2	PHE	X	468	31.834	18.218	32.484	0.00	0.00
ATOM	7082	HB3	PHE	X	468	32.625	19.620	31.735	0.00	0.00
ATOM	7083	CG	PHE	X	468	32.493	19.776	33.863	0.00	0.00
ATOM	7084	CD1	PHE	X	468	31.832	19.615	35.076	0.00	0.00
ATOM	7085	HD1	PHE	X	468	30.819	19.239	35.069	0.00	0.00
ATOM	7086	CE1	PHE	X	468	32.490	19.882	36.227	0.00	0.00
ATOM	7087	HE1	PHE	X	468	32.007	19.681	37.172	0.00	0.00
ATOM	7088	CZ	PHE	X	468	33.878	20.200	36.312	0.00	0.00
ATOM	7089	HZ	PHE	X	468	34.440	20.331	37.225	0.00	0.00
ATOM	7090	CE2	PHE	X	468	34.538	20.400	35.073	0.00	0.00
ATOM	7091	HE2	PHE	X	468	35.588	20.652	35.042	0.00	0.00
ATOM	7092	CD2	PHE	X	468	33.829	20.221	33.899	0.00	0.00
ATOM	7093	HD2	PHE	X	468	34.314	20.454	32.962	0.00	0.00
ATOM	7094	C	PHE	X	468	30.426	21.411	32.094	0.00	0.00
ATOM	7095	O	PHE	X	468	30.088	22.075	33.088	0.00	0.00
ATOM	7096	N	ALA	X	469	30.829	21.973	30.963	0.00	0.00
ATOM	7097	H	ALA	X	469	31.258	21.413	30.240	0.00	0.00
ATOM	7098	CA	ALA	X	469	30.638	23.413	30.725	0.00	0.00
ATOM	7099	HA	ALA	X	469	30.992	23.927	31.619	0.00	0.00
ATOM	7100	CB	ALA	X	469	31.422	23.832	29.544	0.00	0.00
ATOM	7101	HB1	ALA	X	469	31.136	23.103	28.786	0.00	0.00
ATOM	7102	HB2	ALA	X	469	32.479	23.656	29.742	0.00	0.00
ATOM	7103	HB3	ALA	X	469	31.193	24.850	29.229	0.00	0.00
ATOM	7104	C	ALA	X	469	29.124	23.703	30.672	0.00	0.00
ATOM	7105	O	ALA	X	469	28.691	24.662	31.319	0.00	0.00
ATOM	7106	N	GLN	X	470	28.295	22.823	30.039	0.00	0.00
ATOM	7107	H	GLN	X	470	28.645	22.018	29.540	0.00	0.00
ATOM	7108	CA	GLN	X	470	26.872	23.123	29.950	0.00	0.00
ATOM	7109	HA	GLN	X	470	26.758	24.146	29.591	0.00	0.00
ATOM	7110	CB	GLN	X	470	26.181	22.098	29.037	0.00	0.00
ATOM	7111	HB2	GLN	X	470	26.584	21.114	29.278	0.00	0.00
ATOM	7112	HB3	GLN	X	470	25.118	22.192	29.261	0.00	0.00
ATOM	7113	CG	GLN	X	470	26.442	22.513	27.526	0.00	0.00
ATOM	7114	HG2	GLN	X	470	26.031	23.478	27.230	0.00	0.00
ATOM	7115	HG3	GLN	X	470	27.520	22.670	27.496	0.00	0.00
ATOM	7116	CD	GLN	X	470	26.075	21.492	26.447	0.00	0.00
ATOM	7117	OE1	GLN	X	470	26.721	21.420	25.436	0.00	0.00
ATOM	7118	NE2	GLN	X	470	25.167	20.554	26.786	0.00	0.00
ATOM	7119	HE21	GLN	X	470	24.936	19.820	26.133	0.00	0.00
ATOM	7120	HE22	GLN	X	470	24.763	20.616	27.710	0.00	0.00
ATOM	7121	C	GLN	X	470	26.372	23.113	31.421	0.00	0.00
ATOM	7122	O	GLN	X	470	25.513	23.973	31.791	0.00	0.00
ATOM	7123	N	ARG	X	471	26.834	22.160	32.261	0.00	0.00
ATOM	7124	H	ARG	X	471	27.591	21.560	31.969	0.00	0.00
ATOM	7125	CA	ARG	X	471	26.349	22.060	33.630	0.00	0.00
ATOM	7126	HA	ARG	X	471	25.262	22.116	33.575	0.00	0.00
ATOM	7127	CB	ARG	X	471	26.797	20.734	34.158	0.00	0.00
ATOM	7128	HB2	ARG	X	471	27.803	20.533	33.792	0.00	0.00
ATOM	7129	HB3	ARG	X	471	26.922	20.740	35.241	0.00	0.00
ATOM	7130	CG	ARG	X	471	25.891	19.580	33.759	0.00	0.00
ATOM	7131	HG2	ARG	X	471	24.909	19.693	34.218	0.00	0.00
ATOM	7132	HG3	ARG	X	471	25.526	19.579	32.732	0.00	0.00
ATOM	7133	CD	ARG	X	471	26.442	18.124	33.980	0.00	0.00
ATOM	7134	HD2	ARG	X	471	25.805	17.353	33.546	0.00	0.00
ATOM	7135	HD3	ARG	X	471	27.403	18.000	33.479	0.00	0.00
ATOM	7136	NE	ARG	X	471	26.537	17.851	35.455	0.00	0.00
ATOM	7137	HE	ARG	X	471	25.644	17.924	35.920	0.00	0.00
ATOM	7138	CZ	ARG	X	471	27.632	17.642	36.155	0.00	0.00
ATOM	7139	NH1	ARG	X	471	28.801	17.487	35.569	0.00	0.00
ATOM	7140	HH11	ARG	X	471	28.741	17.411	34.563	0.00	0.00
ATOM	7141	HH12	ARG	X	471	29.698	17.534	36.031	0.00	0.00
ATOM	7142	NH2	ARG	X	471	27.618	17.544	37.513	0.00	0.00
ATOM	7143	HH21	ARG	X	471	26.736	17.641	37.995	0.00	0.00
ATOM	7144	HH22	ARG	X	471	28.433	17.646	38.101	0.00	0.00
ATOM	7145	C	ARG	X	471	26.891	23.182	34.528	0.00	0.00
ATOM	7146	O	ARG	X	471	26.079	23.508	35.341	0.00	0.00

ATOM	7147	N	LEU	X	472	28.092	23.798	34.363	0.00	0.00
ATOM	7148	H	LEU	X	472	28.631	23.370	33.624	0.00	0.00
ATOM	7149	CA	LEU	X	472	28.505	24.899	35.219	0.00	0.00
ATOM	7150	HA	LEU	X	472	28.164	24.774	36.247	0.00	0.00
ATOM	7151	CB	LEU	X	472	30.059	24.777	35.209	0.00	0.00
ATOM	7152	HB2	LEU	X	472	30.386	24.856	34.173	0.00	0.00
ATOM	7153	HB3	LEU	X	472	30.529	25.665	35.630	0.00	0.00
ATOM	7154	CG	LEU	X	472	30.671	23.550	35.904	0.00	0.00
ATOM	7155	HG	LEU	X	472	30.334	22.590	35.513	0.00	0.00
ATOM	7156	CD1	LEU	X	472	32.190	23.506	35.513	0.00	0.00
ATOM	7157	HD11	LEU	X	472	32.595	22.653	36.058	0.00	0.00
ATOM	7158	HD12	LEU	X	472	32.776	24.403	35.714	0.00	0.00
ATOM	7159	HD13	LEU	X	472	32.397	23.211	34.484	0.00	0.00
ATOM	7160	CD2	LEU	X	472	30.406	23.659	37.383	0.00	0.00
ATOM	7161	HD21	LEU	X	472	31.000	22.865	37.836	0.00	0.00
ATOM	7162	HD22	LEU	X	472	30.666	24.670	37.696	0.00	0.00
ATOM	7163	HD23	LEU	X	472	29.338	23.555	37.572	0.00	0.00
ATOM	7164	C	LEU	X	472	28.039	26.303	34.693	0.00	0.00
ATOM	7165	O	LEU	X	472	27.663	27.233	35.523	0.00	0.00
ATOM	7166	N	MET	X	473	27.875	26.510	33.350	0.00	0.00
ATOM	7167	H	MET	X	473	28.257	25.873	32.666	0.00	0.00
ATOM	7168	CA	MET	X	473	27.168	27.651	32.755	0.00	0.00
ATOM	7169	HA	MET	X	473	27.563	28.622	33.052	0.00	0.00
ATOM	7170	CB	MET	X	473	27.177	27.532	31.163	0.00	0.00
ATOM	7171	HB2	MET	X	473	26.794	26.555	30.869	0.00	0.00
ATOM	7172	HB3	MET	X	473	26.473	28.313	30.876	0.00	0.00
ATOM	7173	CG	MET	X	473	28.585	27.717	30.612	0.00	0.00
ATOM	7174	HG2	MET	X	473	29.126	28.431	31.233	0.00	0.00
ATOM	7175	HG3	MET	X	473	29.143	26.781	30.631	0.00	0.00
ATOM	7176	SD	MET	X	473	28.475	28.245	28.895	0.00	0.00
ATOM	7177	CE	MET	X	473	28.193	26.657	28.003	0.00	0.00
ATOM	7178	HE1	MET	X	473	28.203	26.786	26.921	0.00	0.00
ATOM	7179	HE2	MET	X	473	29.027	26.037	28.333	0.00	0.00
ATOM	7180	HE3	MET	X	473	27.191	26.290	28.225	0.00	0.00
ATOM	7181	C	MET	X	473	25.754	27.563	33.204	0.00	0.00
ATOM	7182	O	MET	X	473	25.110	28.602	33.324	0.00	0.00
ATOM	7183	N	ARG	X	474	25.150	26.393	33.351	0.00	0.00
ATOM	7184	H	ARG	X	474	25.739	25.573	33.336	0.00	0.00
ATOM	7185	CA	ARG	X	474	23.789	26.265	33.803	0.00	0.00
ATOM	7186	HA	ARG	X	474	23.238	27.014	33.235	0.00	0.00
ATOM	7187	CB	ARG	X	474	23.243	24.875	33.402	0.00	0.00
ATOM	7188	HB2	ARG	X	474	23.360	24.823	32.320	0.00	0.00
ATOM	7189	HB3	ARG	X	474	23.854	24.114	33.887	0.00	0.00
ATOM	7190	CG	ARG	X	474	21.743	24.766	33.842	0.00	0.00
ATOM	7191	HG2	ARG	X	474	21.388	23.737	33.797	0.00	0.00
ATOM	7192	HG3	ARG	X	474	21.598	25.094	34.871	0.00	0.00
ATOM	7193	CD	ARG	X	474	20.968	25.750	32.966	0.00	0.00
ATOM	7194	HD2	ARG	X	474	21.082	26.793	33.262	0.00	0.00
ATOM	7195	HD3	ARG	X	474	21.345	25.554	31.962	0.00	0.00
ATOM	7196	NE	ARG	X	474	19.439	25.509	32.938	0.00	0.00
ATOM	7197	HE	ARG	X	474	19.041	24.865	33.607	0.00	0.00
ATOM	7198	CZ	ARG	X	474	18.613	26.227	32.339	0.00	0.00
ATOM	7199	NH1	ARG	X	474	18.973	27.221	31.542	0.00	0.00
ATOM	7200	HH11	ARG	X	474	19.930	27.434	31.299	0.00	0.00
ATOM	7201	HH12	ARG	X	474	18.244	27.774	31.114	0.00	0.00
ATOM	7202	NH2	ARG	X	474	17.332	26.059	32.522	0.00	0.00
ATOM	7203	HH21	ARG	X	474	17.076	25.322	33.163	0.00	0.00
ATOM	7204	HH22	ARG	X	474	16.638	26.666	32.110	0.00	0.00
ATOM	7205	C	ARG	X	474	23.590	26.590	35.287	0.00	0.00
ATOM	7206	O	ARG	X	474	22.739	27.418	35.620	0.00	0.00
ATOM	7207	N	TYR	X	475	24.548	26.212	36.154	0.00	0.00
ATOM	7208	H	TYR	X	475	25.204	25.568	35.737	0.00	0.00
ATOM	7209	CA	TYR	X	475	24.516	26.552	37.569	0.00	0.00
ATOM	7210	HA	TYR	X	475	23.616	26.114	38.000	0.00	0.00
ATOM	7211	CB	TYR	X	475	25.694	25.779	38.248	0.00	0.00
ATOM	7212	HB2	TYR	X	475	26.688	26.045	37.889	0.00	0.00
ATOM	7213	HB3	TYR	X	475	25.905	26.163	39.246	0.00	0.00

ATOM	7214	CG	TYR	X	475	25.520	24.284	38.443	0.00	0.00
ATOM	7215	CD1	TYR	X	475	24.303	23.595	38.349	0.00	0.00
ATOM	7216	HD1	TYR	X	475	23.354	24.086	38.192	0.00	0.00
ATOM	7217	CE1	TYR	X	475	24.187	22.224	38.354	0.00	0.00
ATOM	7218	HE1	TYR	X	475	23.229	21.726	38.379	0.00	0.00
ATOM	7219	CZ	TYR	X	475	25.340	21.452	38.417	0.00	0.00
ATOM	7220	OH	TYR	X	475	25.328	20.093	38.423	0.00	0.00
ATOM	7221	HH	TYR	X	475	24.409	19.857	38.277	0.00	0.00
ATOM	7222	CE2	TYR	X	475	26.559	22.099	38.734	0.00	0.00
ATOM	7223	HE2	TYR	X	475	27.428	21.472	38.871	0.00	0.00
ATOM	7224	CD2	TYR	X	475	26.651	23.520	38.760	0.00	0.00
ATOM	7225	HD2	TYR	X	475	27.556	23.989	39.119	0.00	0.00
ATOM	7226	C	TYR	X	475	24.607	28.101	37.715	0.00	0.00
ATOM	7227	O	TYR	X	475	23.656	28.734	38.175	0.00	0.00
ATOM	7228	N	TRP	X	476	25.687	28.777	37.168	0.00	0.00
ATOM	7229	H	TRP	X	476	26.402	28.289	36.649	0.00	0.00
ATOM	7230	CA	TRP	X	476	25.919	30.267	37.251	0.00	0.00
ATOM	7231	HA	TRP	X	476	26.181	30.584	38.260	0.00	0.00
ATOM	7232	CB	TRP	X	476	27.159	30.627	36.387	0.00	0.00
ATOM	7233	HB2	TRP	X	476	27.333	29.943	35.557	0.00	0.00
ATOM	7234	HB3	TRP	X	476	27.008	31.667	36.096	0.00	0.00
ATOM	7235	CG	TRP	X	476	28.443	30.670	37.113	0.00	0.00
ATOM	7236	CD1	TRP	X	476	29.251	31.743	37.095	0.00	0.00
ATOM	7237	HD1	TRP	X	476	29.004	32.689	36.638	0.00	0.00
ATOM	7238	NE1	TRP	X	476	30.223	31.562	38.047	0.00	0.00
ATOM	7239	HE1	TRP	X	476	31.054	32.133	38.086	0.00	0.00
ATOM	7240	CE2	TRP	X	476	30.070	30.420	38.809	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	30.802	29.877	39.869	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	31.629	30.422	40.299	0.00	0.00
ATOM	7243	CH2	TRP	X	476	30.566	28.506	40.158	0.00	0.00
ATOM	7244	HH2	TRP	X	476	31.190	28.011	40.888	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	29.551	27.730	39.491	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	29.281	26.718	39.755	0.00	0.00
ATOM	7247	CE3	TRP	X	476	28.793	28.350	38.480	0.00	0.00
ATOM	7248	HE3	TRP	X	476	27.912	27.866	38.086	0.00	0.00
ATOM	7249	CD2	TRP	X	476	29.076	29.708	38.064	0.00	0.00
ATOM	7250	C	TRP	X	476	24.701	31.078	36.807	0.00	0.00
ATOM	7251	O	TRP	X	476	24.278	31.954	37.543	0.00	0.00
ATOM	7252	N	ALA	X	477	24.064	30.643	35.757	0.00	0.00
ATOM	7253	H	ALA	X	477	24.456	29.874	35.233	0.00	0.00
ATOM	7254	CA	ALA	X	477	22.917	31.275	35.139	0.00	0.00
ATOM	7255	HA	ALA	X	477	23.135	32.343	35.104	0.00	0.00
ATOM	7256	CB	ALA	X	477	22.780	30.777	33.687	0.00	0.00
ATOM	7257	HB1	ALA	X	477	22.743	29.688	33.656	0.00	0.00
ATOM	7258	HB2	ALA	X	477	23.672	31.057	33.126	0.00	0.00
ATOM	7259	HB3	ALA	X	477	21.987	31.304	33.157	0.00	0.00
ATOM	7260	C	ALA	X	477	21.608	31.069	36.006	0.00	0.00
ATOM	7261	O	ALA	X	477	20.845	32.022	36.058	0.00	0.00
ATOM	7262	N	ASN	X	478	21.337	29.862	36.519	0.00	0.00
ATOM	7263	H	ASN	X	478	21.983	29.120	36.291	0.00	0.00
ATOM	7264	CA	ASN	X	478	20.190	29.660	37.430	0.00	0.00
ATOM	7265	HA	ASN	X	478	19.249	29.967	36.973	0.00	0.00
ATOM	7266	CB	ASN	X	478	20.003	28.173	37.684	0.00	0.00
ATOM	7267	HB2	ASN	X	478	20.937	27.677	37.946	0.00	0.00
ATOM	7268	HB3	ASN	X	478	19.326	27.915	38.499	0.00	0.00
ATOM	7269	CG	ASN	X	478	19.450	27.288	36.490	0.00	0.00
ATOM	7270	OD1	ASN	X	478	18.736	27.762	35.620	0.00	0.00
ATOM	7271	ND2	ASN	X	478	19.597	25.979	36.630	0.00	0.00
ATOM	7272	HD21	ASN	X	478	19.107	25.313	36.049	0.00	0.00
ATOM	7273	HD22	ASN	X	478	19.957	25.593	37.491	0.00	0.00
ATOM	7274	C	ASN	X	478	20.313	30.328	38.795	0.00	0.00
ATOM	7275	O	ASN	X	478	19.348	30.898	39.338	0.00	0.00
ATOM	7276	N	PHE	X	479	21.547	30.485	39.318	0.00	0.00
ATOM	7277	H	PHE	X	479	22.382	30.132	38.874	0.00	0.00
ATOM	7278	CA	PHE	X	479	21.756	31.319	40.429	0.00	0.00
ATOM	7279	HA	PHE	X	479	21.095	31.140	41.278	0.00	0.00
ATOM	7280	CB	PHE	X	479	23.174	31.025	40.934	0.00	0.00

ATOM	7281	HB2	PHE	X	479	23.236	29.969	41.201	0.00	0.00
ATOM	7282	HB3	PHE	X	479	23.886	31.309	40.159	0.00	0.00
ATOM	7283	CG	PHE	X	479	23.535	31.828	42.194	0.00	0.00
ATOM	7284	CD1	PHE	X	479	23.181	31.316	43.411	0.00	0.00
ATOM	7285	HD1	PHE	X	479	22.678	30.361	43.382	0.00	0.00
ATOM	7286	CE1	PHE	X	479	23.360	32.061	44.546	0.00	0.00
ATOM	7287	HE1	PHE	X	479	23.032	31.695	45.508	0.00	0.00
ATOM	7288	CZ	PHE	X	479	24.030	33.324	44.541	0.00	0.00
ATOM	7289	HZ	PHE	X	479	24.209	33.823	45.482	0.00	0.00
ATOM	7290	CE2	PHE	X	479	24.582	33.827	43.339	0.00	0.00
ATOM	7291	HE2	PHE	X	479	25.046	34.802	43.373	0.00	0.00
ATOM	7292	CD2	PHE	X	479	24.247	33.108	42.109	0.00	0.00
ATOM	7293	HD2	PHE	X	479	24.570	33.597	41.202	0.00	0.00
ATOM	7294	C	PHE	X	479	21.511	32.793	40.041	0.00	0.00
ATOM	7295	O	PHE	X	479	20.944	33.508	40.830	0.00	0.00
ATOM	7296	N	ALA	X	480	21.823	33.230	38.813	0.00	0.00
ATOM	7297	H	ALA	X	480	22.382	32.688	38.170	0.00	0.00
ATOM	7298	CA	ALA	X	480	21.531	34.595	38.330	0.00	0.00
ATOM	7299	HA	ALA	X	480	21.961	35.286	39.054	0.00	0.00
ATOM	7300	CB	ALA	X	480	22.384	34.841	37.059	0.00	0.00
ATOM	7301	HB1	ALA	X	480	23.412	34.491	37.155	0.00	0.00
ATOM	7302	HB2	ALA	X	480	22.409	35.856	36.662	0.00	0.00
ATOM	7303	HB3	ALA	X	480	22.082	34.278	36.176	0.00	0.00
ATOM	7304	C	ALA	X	480	20.033	34.857	38.275	0.00	0.00
ATOM	7305	O	ALA	X	480	19.480	35.868	38.742	0.00	0.00
ATOM	7306	N	ARG	X	481	19.266	33.849	37.791	0.00	0.00
ATOM	7307	H	ARG	X	481	19.839	33.067	37.508	0.00	0.00
ATOM	7308	CA	ARG	X	481	17.795	33.777	37.638	0.00	0.00
ATOM	7309	HA	ARG	X	481	17.524	34.545	36.913	0.00	0.00
ATOM	7310	CB	ARG	X	481	17.358	32.484	36.927	0.00	0.00
ATOM	7311	HB2	ARG	X	481	17.895	31.679	37.429	0.00	0.00
ATOM	7312	HB3	ARG	X	481	16.320	32.335	37.222	0.00	0.00
ATOM	7313	CG	ARG	X	481	17.663	32.470	35.413	0.00	0.00
ATOM	7314	HG2	ARG	X	481	17.019	33.192	34.912	0.00	0.00
ATOM	7315	HG3	ARG	X	481	18.681	32.831	35.265	0.00	0.00
ATOM	7316	CD	ARG	X	481	17.434	31.123	34.679	0.00	0.00
ATOM	7317	HD2	ARG	X	481	17.907	30.286	35.193	0.00	0.00
ATOM	7318	HD3	ARG	X	481	16.353	31.002	34.607	0.00	0.00
ATOM	7319	NE	ARG	X	481	17.990	31.119	33.312	0.00	0.00
ATOM	7320	HE	ARG	X	481	17.661	31.856	32.704	0.00	0.00
ATOM	7321	CZ	ARG	X	481	19.072	30.458	32.856	0.00	0.00
ATOM	7322	NH1	ARG	X	481	19.737	29.601	33.615	0.00	0.00
ATOM	7323	HH11	ARG	X	481	19.394	29.278	34.508	0.00	0.00
ATOM	7324	HH12	ARG	X	481	20.475	29.058	33.190	0.00	0.00
ATOM	7325	NH2	ARG	X	481	19.442	30.631	31.630	0.00	0.00
ATOM	7326	HH21	ARG	X	481	19.086	31.258	30.923	0.00	0.00
ATOM	7327	HH22	ARG	X	481	20.348	30.226	31.440	0.00	0.00
ATOM	7328	C	ARG	X	481	17.116	34.064	38.991	0.00	0.00
ATOM	7329	O	ARG	X	481	16.396	35.074	39.014	0.00	0.00
ATOM	7330	N	THR	X	482	17.332	33.253	40.038	0.00	0.00
ATOM	7331	H	THR	X	482	17.947	32.478	39.834	0.00	0.00
ATOM	7332	CA	THR	X	482	16.564	33.346	41.336	0.00	0.00
ATOM	7333	HA	THR	X	482	16.022	34.284	41.455	0.00	0.00
ATOM	7334	CB	THR	X	482	15.618	32.101	41.458	0.00	0.00
ATOM	7335	HB	THR	X	482	15.154	32.094	42.444	0.00	0.00
ATOM	7336	CG2	THR	X	482	14.394	32.126	40.549	0.00	0.00
ATOM	7337	HG21	THR	X	482	13.832	33.060	40.548	0.00	0.00
ATOM	7338	HG22	THR	X	482	13.708	31.343	40.871	0.00	0.00
ATOM	7339	HG23	THR	X	482	14.739	31.911	39.538	0.00	0.00
ATOM	7340	OG1	THR	X	482	16.279	30.872	41.268	0.00	0.00
ATOM	7341	HG1	THR	X	482	15.658	30.227	41.613	0.00	0.00
ATOM	7342	C	THR	X	482	17.446	33.138	42.589	0.00	0.00
ATOM	7343	O	THR	X	482	17.072	33.527	43.712	0.00	0.00
ATOM	7344	N	GLY	X	483	18.648	32.591	42.439	0.00	0.00
ATOM	7345	H	GLY	X	483	19.008	32.362	41.524	0.00	0.00
ATOM	7346	CA	GLY	X	483	19.511	32.196	43.594	0.00	0.00
ATOM	7347	HA2	GLY	X	483	20.472	32.658	43.366	0.00	0.00

ATOM	7348	HA3	GLY	X	483	19.143	32.748	44.459	0.00	0.00
ATOM	7349	C	GLY	X	483	19.576	30.684	43.922	0.00	0.00
ATOM	7350	O	GLY	X	483	20.236	30.260	44.923	0.00	0.00
ATOM	7351	N	ASP	X	484	18.920	29.837	43.130	0.00	0.00
ATOM	7352	H	ASP	X	484	18.376	30.214	42.368	0.00	0.00
ATOM	7353	CA	ASP	X	484	19.093	28.422	43.180	0.00	0.00
ATOM	7354	HA	ASP	X	484	19.469	28.122	44.158	0.00	0.00
ATOM	7355	CB	ASP	X	484	17.706	27.714	42.964	0.00	0.00
ATOM	7356	HB2	ASP	X	484	17.272	28.235	42.110	0.00	0.00
ATOM	7357	HB3	ASP	X	484	17.869	26.717	42.556	0.00	0.00
ATOM	7358	CG	ASP	X	484	16.827	27.528	44.188	0.00	0.00
ATOM	7359	OD1	ASP	X	484	16.887	26.432	44.862	0.00	0.00
ATOM	7360	OD2	ASP	X	484	16.061	28.429	44.562	0.00	0.00
ATOM	7361	C	ASP	X	484	20.060	27.976	42.111	0.00	0.00
ATOM	7362	O	ASP	X	484	19.903	28.371	40.978	0.00	0.00
ATOM	7363	N	PRO	X	485	21.099	27.074	42.378	0.00	0.00
ATOM	7364	CD	PRO	X	485	21.546	26.585	43.664	0.00	0.00
ATOM	7365	HD2	PRO	X	485	20.751	26.039	44.172	0.00	0.00
ATOM	7366	HD3	PRO	X	485	21.873	27.427	44.276	0.00	0.00
ATOM	7367	CG	PRO	X	485	22.705	25.570	43.442	0.00	0.00
ATOM	7368	HG2	PRO	X	485	22.306	24.557	43.379	0.00	0.00
ATOM	7369	HG3	PRO	X	485	23.450	25.638	44.234	0.00	0.00
ATOM	7370	CB	PRO	X	485	23.201	25.861	42.014	0.00	0.00
ATOM	7371	HB2	PRO	X	485	23.464	24.898	41.576	0.00	0.00
ATOM	7372	HB3	PRO	X	485	23.981	26.622	42.033	0.00	0.00
ATOM	7373	CA	PRO	X	485	21.949	26.485	41.315	0.00	0.00
ATOM	7374	HA	PRO	X	485	22.266	27.284	40.644	0.00	0.00
ATOM	7375	C	PRO	X	485	21.223	25.443	40.472	0.00	0.00
ATOM	7376	O	PRO	X	485	21.672	25.065	39.424	0.00	0.00
ATOM	7377	N	ASN	X	486	20.136	24.883	41.026	0.00	0.00
ATOM	7378	H	ASN	X	486	19.847	25.143	41.958	0.00	0.00
ATOM	7379	CA	ASN	X	486	19.321	23.890	40.320	0.00	0.00
ATOM	7380	HA	ASN	X	486	19.900	23.346	39.574	0.00	0.00
ATOM	7381	CB	ASN	X	486	18.719	22.853	41.313	0.00	0.00
ATOM	7382	HB2	ASN	X	486	17.972	22.249	40.799	0.00	0.00
ATOM	7383	HB3	ASN	X	486	19.590	22.249	41.568	0.00	0.00
ATOM	7384	CG	ASN	X	486	18.130	23.500	42.564	0.00	0.00
ATOM	7385	OD1	ASN	X	486	18.735	23.614	43.558	0.00	0.00
ATOM	7386	ND2	ASN	X	486	16.878	23.925	42.552	0.00	0.00
ATOM	7387	HD21	ASN	X	486	16.574	24.335	43.423	0.00	0.00
ATOM	7388	HD22	ASN	X	486	16.406	24.009	41.663	0.00	0.00
ATOM	7389	C	ASN	X	486	18.170	24.547	39.538	0.00	0.00
ATOM	7390	O	ASN	X	486	17.857	25.734	39.624	0.00	0.00
ATOM	7391	N	GLU	X	487	17.525	23.656	38.745	0.00	0.00
ATOM	7392	H	GLU	X	487	17.924	22.760	38.505	0.00	0.00
ATOM	7393	CA	GLU	X	487	16.213	23.910	38.137	0.00	0.00
ATOM	7394	HA	GLU	X	487	16.256	24.799	37.508	0.00	0.00
ATOM	7395	CB	GLU	X	487	15.866	22.775	37.100	0.00	0.00
ATOM	7396	HB2	GLU	X	487	15.769	21.849	37.667	0.00	0.00
ATOM	7397	HB3	GLU	X	487	14.893	22.884	36.621	0.00	0.00
ATOM	7398	CG	GLU	X	487	16.931	22.525	36.043	0.00	0.00
ATOM	7399	HG2	GLU	X	487	17.516	21.679	36.403	0.00	0.00
ATOM	7400	HG3	GLU	X	487	16.315	22.121	35.240	0.00	0.00
ATOM	7401	CD	GLU	X	487	17.684	23.652	35.405	0.00	0.00
ATOM	7402	OE1	GLU	X	487	17.015	24.570	34.842	0.00	0.00
ATOM	7403	OE2	GLU	X	487	18.957	23.624	35.369	0.00	0.00
ATOM	7404	C	GLU	X	487	15.101	23.988	39.237	0.00	0.00
ATOM	7405	O	GLU	X	487	15.127	23.280	40.246	0.00	0.00
ATOM	7406	N	PRO	X	488	14.024	24.859	39.116	0.00	0.00
ATOM	7407	CD	PRO	X	488	13.778	25.754	38.073	0.00	0.00
ATOM	7408	HD2	PRO	X	488	13.216	25.258	37.281	0.00	0.00
ATOM	7409	HD3	PRO	X	488	14.662	26.226	37.645	0.00	0.00
ATOM	7410	CG	PRO	X	488	12.880	26.876	38.690	0.00	0.00
ATOM	7411	HG2	PRO	X	488	12.207	27.455	38.057	0.00	0.00
ATOM	7412	HG3	PRO	X	488	13.579	27.554	39.178	0.00	0.00
ATOM	7413	CB	PRO	X	488	11.974	26.060	39.599	0.00	0.00
ATOM	7414	HB2	PRO	X	488	11.222	25.449	39.100	0.00	0.00

ATOM	7415	HB3	PRO	X	488	11.426	26.505	40.429	0.00	0.00
ATOM	7416	CA	PRO	X	488	12.999	24.958	40.114	0.00	0.00
ATOM	7417	HA	PRO	X	488	13.280	25.339	41.096	0.00	0.00
ATOM	7418	C	PRO	X	488	12.313	23.693	40.534	0.00	0.00
ATOM	7419	O	PRO	X	488	12.062	23.443	41.750	0.00	0.00
ATOM	7420	N	ARG	X	489	12.037	22.686	39.615	0.00	0.00
ATOM	7421	H	ARG	X	489	12.282	22.937	38.667	0.00	0.00
ATOM	7422	CA	ARG	X	489	11.485	21.326	39.908	0.00	0.00
ATOM	7423	HA	ARG	X	489	10.577	21.381	40.508	0.00	0.00
ATOM	7424	CB	ARG	X	489	11.163	20.548	38.636	0.00	0.00
ATOM	7425	HB2	ARG	X	489	10.536	19.705	38.926	0.00	0.00
ATOM	7426	HB3	ARG	X	489	10.519	21.076	37.934	0.00	0.00
ATOM	7427	CG	ARG	X	489	12.517	20.284	37.930	0.00	0.00
ATOM	7428	HG2	ARG	X	489	13.108	21.201	37.927	0.00	0.00
ATOM	7429	HG3	ARG	X	489	13.171	19.469	38.240	0.00	0.00
ATOM	7430	CD	ARG	X	489	12.066	19.908	36.494	0.00	0.00
ATOM	7431	HD2	ARG	X	489	11.366	19.072	36.503	0.00	0.00
ATOM	7432	HD3	ARG	X	489	11.473	20.718	36.070	0.00	0.00
ATOM	7433	NE	ARG	X	489	13.164	19.590	35.556	0.00	0.00
ATOM	7434	HE	ARG	X	489	13.474	18.640	35.700	0.00	0.00
ATOM	7435	CZ	ARG	X	489	13.511	20.265	34.520	0.00	0.00
ATOM	7436	NH1	ARG	X	489	14.429	19.794	33.753	0.00	0.00
ATOM	7437	HH11	ARG	X	489	14.988	18.989	33.999	0.00	0.00
ATOM	7438	HH12	ARG	X	489	14.608	20.301	32.899	0.00	0.00
ATOM	7439	NH2	ARG	X	489	13.120	21.493	34.329	0.00	0.00
ATOM	7440	HH21	ARG	X	489	12.420	21.925	34.916	0.00	0.00
ATOM	7441	HH22	ARG	X	489	13.639	21.935	33.585	0.00	0.00
ATOM	7442	C	ARG	X	489	12.407	20.444	40.711	0.00	0.00
ATOM	7443	O	ARG	X	489	12.044	19.236	41.001	0.00	0.00
ATOM	7444	N	ASP	X	490	13.680	20.872	40.931	0.00	0.00
ATOM	7445	H	ASP	X	490	13.891	21.838	40.727	0.00	0.00
ATOM	7446	CA	ASP	X	490	14.571	20.277	41.950	0.00	0.00
ATOM	7447	HA	ASP	X	490	15.545	20.605	41.586	0.00	0.00
ATOM	7448	CB	ASP	X	490	14.276	20.904	43.323	0.00	0.00
ATOM	7449	HB2	ASP	X	490	15.135	20.753	43.977	0.00	0.00
ATOM	7450	HB3	ASP	X	490	14.121	21.972	43.172	0.00	0.00
ATOM	7451	CG	ASP	X	490	12.908	20.451	43.928	0.00	0.00
ATOM	7452	OD1	ASP	X	490	12.925	19.786	45.021	0.00	0.00
ATOM	7453	OD2	ASP	X	490	11.831	20.884	43.400	0.00	0.00
ATOM	7454	C	ASP	X	490	14.642	18.723	41.796	0.00	0.00
ATOM	7455	O	ASP	X	490	14.178	18.011	42.742	0.00	0.00
ATOM	7456	N	PRO	X	491	15.043	18.184	40.632	0.00	0.00
ATOM	7457	CD	PRO	X	491	15.786	18.876	39.555	0.00	0.00
ATOM	7458	HD2	PRO	X	491	16.831	18.972	39.852	0.00	0.00
ATOM	7459	HD3	PRO	X	491	15.390	19.872	39.358	0.00	0.00
ATOM	7460	CG	PRO	X	491	15.817	18.030	38.265	0.00	0.00
ATOM	7461	HG2	PRO	X	491	16.699	17.459	37.973	0.00	0.00
ATOM	7462	HG3	PRO	X	491	15.599	18.633	37.384	0.00	0.00
ATOM	7463	CB	PRO	X	491	14.764	16.974	38.552	0.00	0.00
ATOM	7464	HB2	PRO	X	491	14.974	15.999	38.111	0.00	0.00
ATOM	7465	HB3	PRO	X	491	13.835	17.326	38.104	0.00	0.00
ATOM	7466	CA	PRO	X	491	14.697	16.873	40.150	0.00	0.00
ATOM	7467	HA	PRO	X	491	13.753	16.535	40.579	0.00	0.00
ATOM	7468	C	PRO	X	491	15.779	15.848	40.684	0.00	0.00
ATOM	7469	O	PRO	X	491	16.811	16.238	41.241	0.00	0.00
ATOM	7470	N	LYS	X	492	15.461	14.541	40.554	0.00	0.00
ATOM	7471	H	LYS	X	492	14.558	14.310	40.165	0.00	0.00
ATOM	7472	CA	LYS	X	492	15.991	13.520	41.518	0.00	0.00
ATOM	7473	HA	LYS	X	492	15.898	14.013	42.486	0.00	0.00
ATOM	7474	CB	LYS	X	492	15.085	12.313	41.408	0.00	0.00
ATOM	7475	HB2	LYS	X	492	15.511	11.484	41.974	0.00	0.00
ATOM	7476	HB3	LYS	X	492	14.121	12.688	41.753	0.00	0.00
ATOM	7477	CG	LYS	X	492	15.080	11.701	39.961	0.00	0.00
ATOM	7478	HG2	LYS	X	492	14.872	12.415	39.165	0.00	0.00
ATOM	7479	HG3	LYS	X	492	16.033	11.176	39.891	0.00	0.00
ATOM	7480	CD	LYS	X	492	13.987	10.644	39.934	0.00	0.00
ATOM	7481	HD2	LYS	X	492	14.269	9.799	40.561	0.00	0.00

ATOM	7482	HD3	LYS	X	492	13.091	10.985	40.451	0.00	0.00
ATOM	7483	CE	LYS	X	492	13.693	10.196	38.479	0.00	0.00
ATOM	7484	HE2	LYS	X	492	13.276	11.017	37.896	0.00	0.00
ATOM	7485	HE3	LYS	X	492	14.608	9.884	37.975	0.00	0.00
ATOM	7486	NZ	LYS	X	492	12.607	9.163	38.486	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	11.760	9.356	39.001	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	12.373	8.748	37.595	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	12.988	8.433	39.071	0.00	0.00
ATOM	7490	C	LYS	X	492	17.428	13.123	41.416	0.00	0.00
ATOM	7491	O	LYS	X	492	17.949	12.325	42.156	0.00	0.00
ATOM	7492	N	ALA	X	493	18.186	13.650	40.432	0.00	0.00
ATOM	7493	H	ALA	X	493	17.652	14.124	39.718	0.00	0.00
ATOM	7494	CA	ALA	X	493	19.646	13.680	40.453	0.00	0.00
ATOM	7495	HA	ALA	X	493	19.994	12.661	40.286	0.00	0.00
ATOM	7496	CB	ALA	X	493	20.114	14.540	39.285	0.00	0.00
ATOM	7497	HB1	ALA	X	493	19.512	15.442	39.171	0.00	0.00
ATOM	7498	HB2	ALA	X	493	19.965	13.934	38.391	0.00	0.00
ATOM	7499	HB3	ALA	X	493	21.194	14.681	39.326	0.00	0.00
ATOM	7500	C	ALA	X	493	20.174	14.411	41.848	0.00	0.00
ATOM	7501	O	ALA	X	493	19.373	15.199	42.378	0.00	0.00
ATOM	7502	N	PRO	X	494	21.471	14.381	42.201	0.00	0.00
ATOM	7503	CD	PRO	X	494	22.413	13.372	41.739	0.00	0.00
ATOM	7504	HD2	PRO	X	494	22.694	13.401	40.686	0.00	0.00
ATOM	7505	HD3	PRO	X	494	22.204	12.352	42.061	0.00	0.00
ATOM	7506	CG	PRO	X	494	23.733	13.733	42.412	0.00	0.00
ATOM	7507	HG2	PRO	X	494	24.405	14.321	41.788	0.00	0.00
ATOM	7508	HG3	PRO	X	494	24.265	12.842	42.747	0.00	0.00
ATOM	7509	CB	PRO	X	494	23.433	14.587	43.573	0.00	0.00
ATOM	7510	HB2	PRO	X	494	24.119	15.423	43.707	0.00	0.00
ATOM	7511	HB3	PRO	X	494	23.416	14.023	44.505	0.00	0.00
ATOM	7512	CA	PRO	X	494	22.047	15.207	43.291	0.00	0.00
ATOM	7513	HA	PRO	X	494	21.377	15.242	44.150	0.00	0.00
ATOM	7514	C	PRO	X	494	22.216	16.691	42.817	0.00	0.00
ATOM	7515	O	PRO	X	494	22.550	16.976	41.670	0.00	0.00
ATOM	7516	N	GLN	X	495	22.116	17.630	43.752	0.00	0.00
ATOM	7517	H	GLN	X	495	21.846	17.419	44.702	0.00	0.00
ATOM	7518	CA	GLN	X	495	22.193	19.063	43.558	0.00	0.00
ATOM	7519	HA	GLN	X	495	22.602	19.199	42.557	0.00	0.00
ATOM	7520	CB	GLN	X	495	20.788	19.681	43.616	0.00	0.00
ATOM	7521	HB2	GLN	X	495	20.333	19.709	44.606	0.00	0.00
ATOM	7522	HB3	GLN	X	495	20.862	20.721	43.300	0.00	0.00
ATOM	7523	CG	GLN	X	495	19.666	18.963	42.788	0.00	0.00
ATOM	7524	HG2	GLN	X	495	19.667	17.990	43.280	0.00	0.00
ATOM	7525	HG3	GLN	X	495	18.707	19.472	42.884	0.00	0.00
ATOM	7526	CD	GLN	X	495	20.051	18.884	41.302	0.00	0.00
ATOM	7527	OE1	GLN	X	495	20.727	19.716	40.739	0.00	0.00
ATOM	7528	NE2	GLN	X	495	19.595	17.869	40.624	0.00	0.00
ATOM	7529	HE21	GLN	X	495	19.436	18.072	39.647	0.00	0.00
ATOM	7530	HE22	GLN	X	495	19.126	17.052	40.988	0.00	0.00
ATOM	7531	C	GLN	X	495	22.995	19.850	44.580	0.00	0.00
ATOM	7532	O	GLN	X	495	23.131	19.419	45.675	0.00	0.00
ATOM	7533	N	TRP	X	496	23.513	21.002	44.143	0.00	0.00
ATOM	7534	H	TRP	X	496	23.400	21.270	43.176	0.00	0.00
ATOM	7535	CA	TRP	X	496	24.418	21.808	44.957	0.00	0.00
ATOM	7536	HA	TRP	X	496	25.165	21.132	45.372	0.00	0.00
ATOM	7537	CB	TRP	X	496	25.161	22.727	43.967	0.00	0.00
ATOM	7538	HB2	TRP	X	496	25.820	22.108	43.359	0.00	0.00
ATOM	7539	HB3	TRP	X	496	24.535	23.262	43.252	0.00	0.00
ATOM	7540	CG	TRP	X	496	26.083	23.832	44.531	0.00	0.00
ATOM	7541	CD1	TRP	X	496	26.568	23.921	45.760	0.00	0.00
ATOM	7542	HD1	TRP	X	496	26.339	23.202	46.532	0.00	0.00
ATOM	7543	NE1	TRP	X	496	27.446	24.964	45.820	0.00	0.00
ATOM	7544	HE1	TRP	X	496	28.126	25.010	46.566	0.00	0.00
ATOM	7545	CE2	TRP	X	496	27.597	25.509	44.617	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	28.503	26.472	44.168	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	29.236	26.902	44.835	0.00	0.00
ATOM	7548	CH2	TRP	X	496	28.432	26.942	42.857	0.00	0.00

ATOM	7549	HH2	TRP	X	496	29.095	27.699	42.464	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	27.618	26.301	41.934	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	27.509	26.710	40.940	0.00	0.00
ATOM	7552	CE3	TRP	X	496	26.747	25.253	42.397	0.00	0.00
ATOM	7553	HE3	TRP	X	496	26.002	24.910	41.696	0.00	0.00
ATOM	7554	CD2	TRP	X	496	26.646	24.907	43.751	0.00	0.00
ATOM	7555	C	TRP	X	496	23.682	22.454	46.095	0.00	0.00
ATOM	7556	O	TRP	X	496	22.712	23.125	45.811	0.00	0.00
ATOM	7557	N	PRO	X	497	23.985	22.167	47.379	0.00	0.00
ATOM	7558	CD	PRO	X	497	24.967	21.198	47.923	0.00	0.00
ATOM	7559	HD2	PRO	X	497	25.968	21.558	47.684	0.00	0.00
ATOM	7560	HD3	PRO	X	497	24.766	20.228	47.470	0.00	0.00
ATOM	7561	CG	PRO	X	497	24.751	21.100	49.370	0.00	0.00
ATOM	7562	HG2	PRO	X	497	25.496	21.723	49.866	0.00	0.00
ATOM	7563	HG3	PRO	X	497	24.763	20.080	49.754	0.00	0.00
ATOM	7564	CB	PRO	X	497	23.412	21.806	49.606	0.00	0.00
ATOM	7565	HB2	PRO	X	497	23.452	22.325	50.563	0.00	0.00
ATOM	7566	HB3	PRO	X	497	22.619	21.060	49.642	0.00	0.00
ATOM	7567	CA	PRO	X	497	23.259	22.813	48.468	0.00	0.00
ATOM	7568	HA	PRO	X	497	22.183	22.955	48.371	0.00	0.00
ATOM	7569	C	PRO	X	497	23.983	24.170	48.836	0.00	0.00
ATOM	7570	O	PRO	X	497	25.139	24.424	48.456	0.00	0.00
ATOM	7571	N	PRO	X	498	23.255	25.066	49.536	0.00	0.00
ATOM	7572	CD	PRO	X	498	21.818	24.987	49.829	0.00	0.00
ATOM	7573	HD2	PRO	X	498	21.618	23.973	50.176	0.00	0.00
ATOM	7574	HD3	PRO	X	498	21.164	25.253	48.998	0.00	0.00
ATOM	7575	CG	PRO	X	498	21.513	26.115	50.843	0.00	0.00
ATOM	7576	HG2	PRO	X	498	21.695	25.655	51.814	0.00	0.00
ATOM	7577	HG3	PRO	X	498	20.531	26.558	50.679	0.00	0.00
ATOM	7578	CB	PRO	X	498	22.634	27.185	50.575	0.00	0.00
ATOM	7579	HB2	PRO	X	498	22.872	27.765	51.467	0.00	0.00
ATOM	7580	HB3	PRO	X	498	22.319	27.832	49.756	0.00	0.00
ATOM	7581	CA	PRO	X	498	23.827	26.289	50.085	0.00	0.00
ATOM	7582	HA	PRO	X	498	24.424	26.803	49.332	0.00	0.00
ATOM	7583	C	PRO	X	498	24.891	25.931	51.177	0.00	0.00
ATOM	7584	O	PRO	X	498	24.646	25.019	51.993	0.00	0.00
ATOM	7585	N	TYR	X	499	25.966	26.738	51.371	0.00	0.00
ATOM	7586	H	TYR	X	499	25.955	27.573	50.802	0.00	0.00
ATOM	7587	CA	TYR	X	499	26.815	26.673	52.544	0.00	0.00
ATOM	7588	HA	TYR	X	499	27.012	25.625	52.769	0.00	0.00
ATOM	7589	CB	TYR	X	499	28.243	27.131	52.166	0.00	0.00
ATOM	7590	HB2	TYR	X	499	28.505	26.640	51.229	0.00	0.00
ATOM	7591	HB3	TYR	X	499	28.138	28.200	51.980	0.00	0.00
ATOM	7592	CG	TYR	X	499	29.313	26.862	53.255	0.00	0.00
ATOM	7593	CD1	TYR	X	499	29.567	27.731	54.271	0.00	0.00
ATOM	7594	HD1	TYR	X	499	28.945	28.595	54.455	0.00	0.00
ATOM	7595	CE1	TYR	X	499	30.709	27.672	55.056	0.00	0.00
ATOM	7596	HE1	TYR	X	499	30.800	28.400	55.848	0.00	0.00
ATOM	7597	CZ	TYR	X	499	31.583	26.638	54.983	0.00	0.00
ATOM	7598	OH	TYR	X	499	32.654	26.526	55.868	0.00	0.00
ATOM	7599	HH	TYR	X	499	32.795	27.354	56.333	0.00	0.00
ATOM	7600	CE2	TYR	X	499	31.253	25.573	54.025	0.00	0.00
ATOM	7601	HE2	TYR	X	499	31.736	24.608	53.983	0.00	0.00
ATOM	7602	CD2	TYR	X	499	30.172	25.737	53.148	0.00	0.00
ATOM	7603	HD2	TYR	X	499	30.083	24.958	52.405	0.00	0.00
ATOM	7604	C	TYR	X	499	26.212	27.340	53.738	0.00	0.00
ATOM	7605	O	TYR	X	499	25.612	28.419	53.644	0.00	0.00
ATOM	7606	N	THR	X	500	26.463	26.694	54.914	0.00	0.00
ATOM	7607	H	THR	X	500	26.813	25.768	54.712	0.00	0.00
ATOM	7608	CA	THR	X	500	26.233	27.260	56.289	0.00	0.00
ATOM	7609	HA	THR	X	500	26.280	28.344	56.184	0.00	0.00
ATOM	7610	CB	THR	X	500	24.799	26.880	56.740	0.00	0.00
ATOM	7611	HB	THR	X	500	24.133	27.160	55.924	0.00	0.00
ATOM	7612	CG2	THR	X	500	24.579	25.379	57.113	0.00	0.00
ATOM	7613	HG21	THR	X	500	25.046	25.330	58.097	0.00	0.00
ATOM	7614	HG22	THR	X	500	25.172	24.818	56.390	0.00	0.00
ATOM	7615	HG23	THR	X	500	23.514	25.145	57.136	0.00	0.00

ATOM	7616	OG1	THR	X	500	24.487	27.658	57.805	0.00	0.00
ATOM	7617	HG1	THR	X	500	23.660	28.040	57.502	0.00	0.00
ATOM	7618	C	THR	X	500	27.268	26.868	57.333	0.00	0.00
ATOM	7619	O	THR	X	500	27.719	25.714	57.386	0.00	0.00
ATOM	7620	N	ALA	X	501	27.662	27.784	58.262	0.00	0.00
ATOM	7621	H	ALA	X	501	27.040	28.575	58.356	0.00	0.00
ATOM	7622	CA	ALA	X	501	28.787	27.856	59.176	0.00	0.00
ATOM	7623	HA	ALA	X	501	29.714	27.867	58.602	0.00	0.00
ATOM	7624	CB	ALA	X	501	28.684	29.172	59.985	0.00	0.00
ATOM	7625	HB1	ALA	X	501	29.654	29.619	60.205	0.00	0.00
ATOM	7626	HB2	ALA	X	501	28.097	29.074	60.898	0.00	0.00
ATOM	7627	HB3	ALA	X	501	28.255	29.974	59.384	0.00	0.00
ATOM	7628	C	ALA	X	501	28.999	26.707	60.213	0.00	0.00
ATOM	7629	O	ALA	X	501	30.187	26.403	60.438	0.00	0.00
ATOM	7630	N	GLY	X	502	28.024	26.022	60.753	0.00	0.00
ATOM	7631	H	GLY	X	502	27.087	26.338	60.548	0.00	0.00
ATOM	7632	CA	GLY	X	502	28.271	24.863	61.616	0.00	0.00
ATOM	7633	HA2	GLY	X	502	29.192	24.985	62.185	0.00	0.00
ATOM	7634	HA3	GLY	X	502	27.465	24.698	62.332	0.00	0.00
ATOM	7635	C	GLY	X	502	28.339	23.576	60.840	0.00	0.00
ATOM	7636	O	GLY	X	502	29.065	22.683	61.276	0.00	0.00
ATOM	7637	N	ALA	X	503	27.695	23.324	59.668	0.00	0.00
ATOM	7638	H	ALA	X	503	27.133	24.047	59.241	0.00	0.00
ATOM	7639	CA	ALA	X	503	27.682	22.026	58.947	0.00	0.00
ATOM	7640	HA	ALA	X	503	27.847	21.191	59.628	0.00	0.00
ATOM	7641	CB	ALA	X	503	26.231	21.853	58.333	0.00	0.00
ATOM	7642	HB1	ALA	X	503	26.025	22.610	57.576	0.00	0.00
ATOM	7643	HB2	ALA	X	503	25.592	21.972	59.208	0.00	0.00
ATOM	7644	HB3	ALA	X	503	26.226	20.814	58.004	0.00	0.00
ATOM	7645	C	ALA	X	503	28.816	21.975	57.926	0.00	0.00
ATOM	7646	O	ALA	X	503	29.375	20.887	57.689	0.00	0.00
ATOM	7647	N	GLN	X	504	29.154	23.192	57.351	0.00	0.00
ATOM	7648	H	GLN	X	504	28.526	23.981	57.389	0.00	0.00
ATOM	7649	CA	GLN	X	504	30.315	23.427	56.449	0.00	0.00
ATOM	7650	HA	GLN	X	504	30.173	24.400	55.978	0.00	0.00
ATOM	7651	CB	GLN	X	504	31.667	23.467	57.258	0.00	0.00
ATOM	7652	HB2	GLN	X	504	31.855	22.482	57.685	0.00	0.00
ATOM	7653	HB3	GLN	X	504	32.477	23.719	56.574	0.00	0.00
ATOM	7654	CG	GLN	X	504	31.666	24.509	58.409	0.00	0.00
ATOM	7655	HG2	GLN	X	504	31.274	25.488	58.135	0.00	0.00
ATOM	7656	HG3	GLN	X	504	31.042	24.100	59.204	0.00	0.00
ATOM	7657	CD	GLN	X	504	33.056	24.913	58.948	0.00	0.00
ATOM	7658	OE1	GLN	X	504	34.128	24.488	58.470	0.00	0.00
ATOM	7659	NE2	GLN	X	504	33.071	25.559	60.098	0.00	0.00
ATOM	7660	HE21	GLN	X	504	33.902	25.759	60.636	0.00	0.00
ATOM	7661	HE22	GLN	X	504	32.209	25.750	60.588	0.00	0.00
ATOM	7662	C	GLN	X	504	30.274	22.469	55.214	0.00	0.00
ATOM	7663	O	GLN	X	504	31.220	21.852	54.869	0.00	0.00
ATOM	7664	N	GLN	X	505	29.072	22.295	54.672	0.00	0.00
ATOM	7665	H	GLN	X	505	28.373	22.948	54.996	0.00	0.00
ATOM	7666	CA	GLN	X	505	28.909	21.462	53.557	0.00	0.00
ATOM	7667	HA	GLN	X	505	29.594	20.620	53.660	0.00	0.00
ATOM	7668	CB	GLN	X	505	27.558	20.715	53.573	0.00	0.00
ATOM	7669	HB2	GLN	X	505	26.664	21.279	53.306	0.00	0.00
ATOM	7670	HB3	GLN	X	505	27.717	19.974	52.790	0.00	0.00
ATOM	7671	CG	GLN	X	505	27.327	20.047	54.943	0.00	0.00
ATOM	7672	HG2	GLN	X	505	28.179	19.518	55.371	0.00	0.00
ATOM	7673	HG3	GLN	X	505	27.036	20.795	55.681	0.00	0.00
ATOM	7674	CD	GLN	X	505	26.208	19.043	54.796	0.00	0.00
ATOM	7675	OE1	GLN	X	505	26.461	17.935	54.433	0.00	0.00
ATOM	7676	NE2	GLN	X	505	25.001	19.383	55.016	0.00	0.00
ATOM	7677	HE21	GLN	X	505	24.381	18.593	55.125	0.00	0.00
ATOM	7678	HE22	GLN	X	505	24.806	20.330	55.306	0.00	0.00
ATOM	7679	C	GLN	X	505	28.906	22.196	52.212	0.00	0.00
ATOM	7680	O	GLN	X	505	28.233	23.194	52.027	0.00	0.00
ATOM	7681	N	TYR	X	506	29.728	21.673	51.298	0.00	0.00
ATOM	7682	H	TYR	X	506	30.287	20.865	51.531	0.00	0.00

ATOM	7683	CA	TYR	X	506	30.063	22.342	50.004	0.00	0.00
ATOM	7684	HA	TYR	X	506	29.264	23.057	49.811	0.00	0.00
ATOM	7685	CB	TYR	X	506	31.318	23.094	50.264	0.00	0.00
ATOM	7686	HB2	TYR	X	506	31.488	23.710	49.381	0.00	0.00
ATOM	7687	HB3	TYR	X	506	31.243	23.646	51.201	0.00	0.00
ATOM	7688	CG	TYR	X	506	32.494	22.226	50.339	0.00	0.00
ATOM	7689	CD1	TYR	X	506	32.976	21.782	51.551	0.00	0.00
ATOM	7690	HD1	TYR	X	506	32.437	21.913	52.477	0.00	0.00
ATOM	7691	CE1	TYR	X	506	34.185	21.180	51.705	0.00	0.00
ATOM	7692	HE1	TYR	X	506	34.462	20.761	52.662	0.00	0.00
ATOM	7693	CZ	TYR	X	506	35.091	21.094	50.610	0.00	0.00
ATOM	7694	OH	TYR	X	506	36.358	20.641	50.724	0.00	0.00
ATOM	7695	HH	TYR	X	506	36.445	20.273	51.607	0.00	0.00
ATOM	7696	CE2	TYR	X	506	34.607	21.503	49.343	0.00	0.00
ATOM	7697	HE2	TYR	X	506	35.259	21.348	48.496	0.00	0.00
ATOM	7698	CD2	TYR	X	506	33.316	22.088	49.203	0.00	0.00
ATOM	7699	HD2	TYR	X	506	32.997	22.423	48.227	0.00	0.00
ATOM	7700	C	TYR	X	506	30.228	21.244	48.893	0.00	0.00
ATOM	7701	O	TYR	X	506	30.407	20.076	49.126	0.00	0.00
ATOM	7702	N	VAL	X	507	30.211	21.704	47.634	0.00	0.00
ATOM	7703	H	VAL	X	507	30.113	22.698	47.484	0.00	0.00
ATOM	7704	CA	VAL	X	507	30.312	20.767	46.497	0.00	0.00
ATOM	7705	HA	VAL	X	507	29.891	19.794	46.752	0.00	0.00
ATOM	7706	CB	VAL	X	507	29.506	21.061	45.271	0.00	0.00
ATOM	7707	HB	VAL	X	507	29.586	20.225	44.577	0.00	0.00
ATOM	7708	CG1	VAL	X	507	28.077	21.175	45.668	0.00	0.00
ATOM	7709	HG11	VAL	X	507	27.886	21.901	46.458	0.00	0.00
ATOM	7710	HG12	VAL	X	507	27.363	21.395	44.874	0.00	0.00
ATOM	7711	HG13	VAL	X	507	27.750	20.186	45.990	0.00	0.00
ATOM	7712	CG2	VAL	X	507	30.045	22.366	44.576	0.00	0.00
ATOM	7713	HG21	VAL	X	507	29.530	22.407	43.616	0.00	0.00
ATOM	7714	HG22	VAL	X	507	31.080	22.457	44.248	0.00	0.00
ATOM	7715	HG23	VAL	X	507	29.706	23.272	45.079	0.00	0.00
ATOM	7716	C	VAL	X	507	31.735	20.512	46.084	0.00	0.00
ATOM	7717	O	VAL	X	507	32.611	21.431	46.150	0.00	0.00
ATOM	7718	N	SER	X	508	31.934	19.277	45.602	0.00	0.00
ATOM	7719	H	SER	X	508	31.122	18.680	45.529	0.00	0.00
ATOM	7720	CA	SER	X	508	33.132	19.099	44.762	0.00	0.00
ATOM	7721	HA	SER	X	508	33.955	19.745	45.066	0.00	0.00
ATOM	7722	CB	SER	X	508	33.686	17.693	45.019	0.00	0.00
ATOM	7723	HB2	SER	X	508	34.570	17.560	44.394	0.00	0.00
ATOM	7724	HB3	SER	X	508	34.129	17.580	46.008	0.00	0.00
ATOM	7725	OG	SER	X	508	32.840	16.530	44.865	0.00	0.00
ATOM	7726	HG	SER	X	508	32.044	16.672	45.382	0.00	0.00
ATOM	7727	C	SER	X	508	32.620	19.169	43.284	0.00	0.00
ATOM	7728	O	SER	X	508	31.454	18.970	43.001	0.00	0.00
ATOM	7729	N	LEU	X	509	33.397	19.568	42.252	0.00	0.00
ATOM	7730	H	LEU	X	509	34.237	20.002	42.608	0.00	0.00
ATOM	7731	CA	LEU	X	509	33.041	19.836	40.847	0.00	0.00
ATOM	7732	HA	LEU	X	509	31.978	19.597	40.804	0.00	0.00
ATOM	7733	CB	LEU	X	509	33.079	21.331	40.450	0.00	0.00
ATOM	7734	HB2	LEU	X	509	34.137	21.572	40.554	0.00	0.00
ATOM	7735	HB3	LEU	X	509	32.850	21.551	39.408	0.00	0.00
ATOM	7736	CG	LEU	X	509	32.155	22.264	41.199	0.00	0.00
ATOM	7737	HG	LEU	X	509	32.361	22.265	42.269	0.00	0.00
ATOM	7738	CD1	LEU	X	509	32.451	23.686	40.682	0.00	0.00
ATOM	7739	HD11	LEU	X	509	32.669	23.849	39.626	0.00	0.00
ATOM	7740	HD12	LEU	X	509	33.381	23.808	41.237	0.00	0.00
ATOM	7741	HD13	LEU	X	509	31.729	24.415	41.051	0.00	0.00
ATOM	7742	CD2	LEU	X	509	30.665	21.937	41.038	0.00	0.00
ATOM	7743	HD21	LEU	X	509	30.556	21.459	40.064	0.00	0.00
ATOM	7744	HD22	LEU	X	509	30.330	21.182	41.749	0.00	0.00
ATOM	7745	HD23	LEU	X	509	30.048	22.836	41.054	0.00	0.00
ATOM	7746	C	LEU	X	509	33.808	18.997	39.820	0.00	0.00
ATOM	7747	O	LEU	X	509	35.012	18.857	39.801	0.00	0.00
ATOM	7748	N	ASP	X	510	32.997	18.239	39.069	0.00	0.00
ATOM	7749	H	ASP	X	510	31.992	18.318	39.132	0.00	0.00

ATOM	7750	CA	ASP	X	510	33.568	17.134	38.276	0.00	0.00
ATOM	7751	HA	ASP	X	510	34.405	17.605	37.761	0.00	0.00
ATOM	7752	CB	ASP	X	510	34.039	15.969	39.244	0.00	0.00
ATOM	7753	HB2	ASP	X	510	34.558	16.412	40.094	0.00	0.00
ATOM	7754	HB3	ASP	X	510	33.228	15.365	39.652	0.00	0.00
ATOM	7755	CG	ASP	X	510	35.051	14.983	38.512	0.00	0.00
ATOM	7756	OD1	ASP	X	510	35.713	15.388	37.565	0.00	0.00
ATOM	7757	OD2	ASP	X	510	35.068	13.739	38.809	0.00	0.00
ATOM	7758	C	ASP	X	510	32.685	16.613	37.142	0.00	0.00
ATOM	7759	O	ASP	X	510	31.508	16.993	37.019	0.00	0.00
ATOM	7760	N	LEU	X	511	33.300	15.786	36.300	0.00	0.00
ATOM	7761	H	LEU	X	511	34.276	15.617	36.500	0.00	0.00
ATOM	7762	CA	LEU	X	511	32.548	15.124	35.202	0.00	0.00
ATOM	7763	HA	LEU	X	511	32.107	15.991	34.710	0.00	0.00
ATOM	7764	CB	LEU	X	511	33.552	14.453	34.227	0.00	0.00
ATOM	7765	HB2	LEU	X	511	33.902	13.510	34.647	0.00	0.00
ATOM	7766	HB3	LEU	X	511	32.950	14.236	33.345	0.00	0.00
ATOM	7767	CG	LEU	X	511	34.782	15.350	33.838	0.00	0.00
ATOM	7768	HG	LEU	X	511	35.436	15.510	34.695	0.00	0.00
ATOM	7769	CD1	LEU	X	511	35.675	14.601	32.811	0.00	0.00
ATOM	7770	HD11	LEU	X	511	35.042	14.694	31.928	0.00	0.00
ATOM	7771	HD12	LEU	X	511	35.723	13.537	33.040	0.00	0.00
ATOM	7772	HD13	LEU	X	511	36.559	15.238	32.796	0.00	0.00
ATOM	7773	CD2	LEU	X	511	34.416	16.644	33.217	0.00	0.00
ATOM	7774	HD21	LEU	X	511	35.285	17.063	32.708	0.00	0.00
ATOM	7775	HD22	LEU	X	511	33.702	16.425	32.423	0.00	0.00
ATOM	7776	HD23	LEU	X	511	34.167	17.213	34.112	0.00	0.00
ATOM	7777	C	LEU	X	511	31.426	14.106	35.602	0.00	0.00
ATOM	7778	O	LEU	X	511	30.587	13.710	34.816	0.00	0.00
ATOM	7779	N	ARG	X	512	31.365	13.816	36.889	0.00	0.00
ATOM	7780	H	ARG	X	512	31.975	14.379	37.465	0.00	0.00
ATOM	7781	CA	ARG	X	512	30.281	13.075	37.550	0.00	0.00
ATOM	7782	HA	ARG	X	512	29.981	12.233	36.926	0.00	0.00
ATOM	7783	CB	ARG	X	512	31.037	12.604	38.777	0.00	0.00
ATOM	7784	HB2	ARG	X	512	31.415	13.472	39.316	0.00	0.00
ATOM	7785	HB3	ARG	X	512	30.362	12.100	39.470	0.00	0.00
ATOM	7786	CG	ARG	X	512	32.055	11.548	38.426	0.00	0.00
ATOM	7787	HG2	ARG	X	512	31.584	10.633	38.067	0.00	0.00
ATOM	7788	HG3	ARG	X	512	32.730	11.992	37.695	0.00	0.00
ATOM	7789	CD	ARG	X	512	32.997	11.159	39.590	0.00	0.00
ATOM	7790	HD2	ARG	X	512	33.710	11.973	39.717	0.00	0.00
ATOM	7791	HD3	ARG	X	512	32.333	10.993	40.438	0.00	0.00
ATOM	7792	NE	ARG	X	512	33.850	9.913	39.346	0.00	0.00
ATOM	7793	HE	ARG	X	512	33.404	9.008	39.390	0.00	0.00
ATOM	7794	CZ	ARG	X	512	34.932	9.895	38.603	0.00	0.00
ATOM	7795	NH1	ARG	X	512	35.726	10.931	38.318	0.00	0.00
ATOM	7796	HH11	ARG	X	512	35.558	11.876	38.632	0.00	0.00
ATOM	7797	HH12	ARG	X	512	36.434	10.784	37.613	0.00	0.00
ATOM	7798	NH2	ARG	X	512	35.187	8.790	37.931	0.00	0.00
ATOM	7799	HH21	ARG	X	512	34.594	7.979	38.037	0.00	0.00
ATOM	7800	HH22	ARG	X	512	35.879	8.800	37.195	0.00	0.00
ATOM	7801	C	ARG	X	512	29.028	13.972	37.847	0.00	0.00
ATOM	7802	O	ARG	X	512	29.212	15.198	37.808	0.00	0.00
ATOM	7803	N	PRO	X	513	27.888	13.329	38.255	0.00	0.00
ATOM	7804	CD	PRO	X	513	27.402	11.960	37.745	0.00	0.00
ATOM	7805	HD2	PRO	X	513	27.922	11.099	38.166	0.00	0.00
ATOM	7806	HD3	PRO	X	513	27.533	11.867	36.667	0.00	0.00
ATOM	7807	CG	PRO	X	513	25.971	11.900	38.252	0.00	0.00
ATOM	7808	HG2	PRO	X	513	25.568	10.914	38.480	0.00	0.00
ATOM	7809	HG3	PRO	X	513	25.403	12.358	37.442	0.00	0.00
ATOM	7810	CB	PRO	X	513	25.918	12.863	39.427	0.00	0.00
ATOM	7811	HB2	PRO	X	513	26.280	12.393	40.340	0.00	0.00
ATOM	7812	HB3	PRO	X	513	24.971	13.353	39.656	0.00	0.00
ATOM	7813	CA	PRO	X	513	26.888	13.923	39.061	0.00	0.00
ATOM	7814	HA	PRO	X	513	26.346	14.696	38.515	0.00	0.00
ATOM	7815	C	PRO	X	513	27.576	14.514	40.346	0.00	0.00
ATOM	7816	O	PRO	X	513	28.644	14.132	40.749	0.00	0.00

ATOM	7817	N	LEU	X	514	26.887	15.500	40.926	0.00	0.00
ATOM	7818	H	LEU	X	514	26.093	15.926	40.470	0.00	0.00
ATOM	7819	CA	LEU	X	514	27.291	16.247	42.087	0.00	0.00
ATOM	7820	HA	LEU	X	514	28.222	16.737	41.801	0.00	0.00
ATOM	7821	CB	LEU	X	514	26.217	17.367	42.293	0.00	0.00
ATOM	7822	HB2	LEU	X	514	25.235	16.919	42.145	0.00	0.00
ATOM	7823	HB3	LEU	X	514	26.291	17.650	43.343	0.00	0.00
ATOM	7824	CG	LEU	X	514	26.382	18.707	41.482	0.00	0.00
ATOM	7825	HG	LEU	X	514	26.534	18.391	40.450	0.00	0.00
ATOM	7826	CD1	LEU	X	514	25.238	19.622	41.725	0.00	0.00
ATOM	7827	HD11	LEU	X	514	25.340	20.536	41.140	0.00	0.00
ATOM	7828	HD12	LEU	X	514	25.401	19.896	42.767	0.00	0.00
ATOM	7829	HD13	LEU	X	514	24.289	19.143	41.482	0.00	0.00
ATOM	7830	CD2	LEU	X	514	27.686	19.444	41.990	0.00	0.00
ATOM	7831	HD21	LEU	X	514	27.813	19.442	43.072	0.00	0.00
ATOM	7832	HD22	LEU	X	514	28.539	18.855	41.652	0.00	0.00
ATOM	7833	HD23	LEU	X	514	27.725	20.403	41.474	0.00	0.00
ATOM	7834	C	LEU	X	514	27.520	15.406	43.349	0.00	0.00
ATOM	7835	O	LEU	X	514	26.565	15.012	43.993	0.00	0.00
ATOM	7836	N	GLU	X	515	28.756	15.241	43.829	0.00	0.00
ATOM	7837	H	GLU	X	515	29.484	15.766	43.367	0.00	0.00
ATOM	7838	CA	GLU	X	515	29.030	14.792	45.173	0.00	0.00
ATOM	7839	HA	GLU	X	515	28.150	14.352	45.642	0.00	0.00
ATOM	7840	CB	GLU	X	515	30.209	13.775	45.108	0.00	0.00
ATOM	7841	HB2	GLU	X	515	29.935	12.961	44.436	0.00	0.00
ATOM	7842	HB3	GLU	X	515	31.092	14.192	44.623	0.00	0.00
ATOM	7843	CG	GLU	X	515	30.621	13.112	46.442	0.00	0.00
ATOM	7844	HG2	GLU	X	515	31.062	13.873	47.085	0.00	0.00
ATOM	7845	HG3	GLU	X	515	29.761	12.676	46.951	0.00	0.00
ATOM	7846	CD	GLU	X	515	31.603	12.016	46.115	0.00	0.00
ATOM	7847	OE1	GLU	X	515	31.132	10.928	45.664	0.00	0.00
ATOM	7848	OE2	GLU	X	515	32.792	12.303	46.179	0.00	0.00
ATOM	7849	C	GLU	X	515	29.530	15.927	46.152	0.00	0.00
ATOM	7850	O	GLU	X	515	30.417	16.659	45.781	0.00	0.00
ATOM	7851	N	VAL	X	516	29.073	15.990	47.354	0.00	0.00
ATOM	7852	H	VAL	X	516	28.385	15.290	47.594	0.00	0.00
ATOM	7853	CA	VAL	X	516	29.315	16.951	48.358	0.00	0.00
ATOM	7854	HA	VAL	X	516	29.623	17.911	47.942	0.00	0.00
ATOM	7855	CB	VAL	X	516	28.027	17.220	49.190	0.00	0.00
ATOM	7856	HB	VAL	X	516	27.573	16.252	49.403	0.00	0.00
ATOM	7857	CG1	VAL	X	516	28.067	17.806	50.663	0.00	0.00
ATOM	7858	HG11	VAL	X	516	27.067	17.727	51.089	0.00	0.00
ATOM	7859	HG12	VAL	X	516	28.704	17.124	51.226	0.00	0.00
ATOM	7860	HG13	VAL	X	516	28.404	18.842	50.639	0.00	0.00
ATOM	7861	CG2	VAL	X	516	27.002	18.101	48.392	0.00	0.00
ATOM	7862	HG21	VAL	X	516	26.047	18.214	48.905	0.00	0.00
ATOM	7863	HG22	VAL	X	516	26.831	17.643	47.418	0.00	0.00
ATOM	7864	HG23	VAL	X	516	27.431	19.098	48.285	0.00	0.00
ATOM	7865	C	VAL	X	516	30.348	16.478	49.393	0.00	0.00
ATOM	7866	O	VAL	X	516	30.555	15.253	49.651	0.00	0.00
ATOM	7867	N	ARG	X	517	31.080	17.531	49.849	0.00	0.00
ATOM	7868	H	ARG	X	517	30.764	18.436	49.531	0.00	0.00
ATOM	7869	CA	ARG	X	517	32.156	17.492	50.810	0.00	0.00
ATOM	7870	HA	ARG	X	517	32.317	16.454	51.101	0.00	0.00
ATOM	7871	CB	ARG	X	517	33.443	17.829	50.069	0.00	0.00
ATOM	7872	HB2	ARG	X	517	33.316	18.840	49.682	0.00	0.00
ATOM	7873	HB3	ARG	X	517	34.255	17.753	50.792	0.00	0.00
ATOM	7874	CG	ARG	X	517	33.867	16.965	48.812	0.00	0.00
ATOM	7875	HG2	ARG	X	517	33.193	17.156	47.977	0.00	0.00
ATOM	7876	HG3	ARG	X	517	34.806	17.464	48.575	0.00	0.00
ATOM	7877	CD	ARG	X	517	34.064	15.445	48.979	0.00	0.00
ATOM	7878	HD2	ARG	X	517	34.952	15.177	49.551	0.00	0.00
ATOM	7879	HD3	ARG	X	517	33.225	15.073	49.567	0.00	0.00
ATOM	7880	NE	ARG	X	517	34.128	14.802	47.616	0.00	0.00
ATOM	7881	HE	ARG	X	517	33.337	14.216	47.387	0.00	0.00
ATOM	7882	CZ	ARG	X	517	35.088	14.769	46.700	0.00	0.00
ATOM	7883	NH1	ARG	X	517	36.168	15.566	46.786	0.00	0.00

ATOM	7884	HH11	ARG	X	517	36.353	16.154	47.586	0.00	0.00
ATOM	7885	HH12	ARG	X	517	36.740	15.712	45.966	0.00	0.00
ATOM	7886	NH2	ARG	X	517	34.875	13.989	45.644	0.00	0.00
ATOM	7887	HH21	ARG	X	517	34.074	13.374	45.618	0.00	0.00
ATOM	7888	HH22	ARG	X	517	35.419	13.977	44.794	0.00	0.00
ATOM	7889	C	ARG	X	517	31.904	18.364	52.010	0.00	0.00
ATOM	7890	O	ARG	X	517	31.033	19.216	52.079	0.00	0.00
ATOM	7891	N	ARG	X	518	32.586	17.954	53.073	0.00	0.00
ATOM	7892	H	ARG	X	518	33.224	17.179	52.964	0.00	0.00
ATOM	7893	CA	ARG	X	518	32.284	18.493	54.460	0.00	0.00
ATOM	7894	HA	ARG	X	518	31.663	19.389	54.471	0.00	0.00
ATOM	7895	CB	ARG	X	518	31.366	17.503	55.158	0.00	0.00
ATOM	7896	HB2	ARG	X	518	31.832	16.540	55.368	0.00	0.00
ATOM	7897	HB3	ARG	X	518	30.909	17.942	56.045	0.00	0.00
ATOM	7898	CG	ARG	X	518	30.101	17.117	54.358	0.00	0.00
ATOM	7899	HG2	ARG	X	518	29.622	18.010	53.957	0.00	0.00
ATOM	7900	HG3	ARG	X	518	30.433	16.514	53.512	0.00	0.00
ATOM	7901	CD	ARG	X	518	29.108	16.232	55.048	0.00	0.00
ATOM	7902	HD2	ARG	X	518	29.677	15.426	55.513	0.00	0.00
ATOM	7903	HD3	ARG	X	518	28.606	16.675	55.907	0.00	0.00
ATOM	7904	NE	ARG	X	518	28.119	15.717	54.172	0.00	0.00
ATOM	7905	HE	ARG	X	518	27.276	16.270	54.095	0.00	0.00
ATOM	7906	CZ	ARG	X	518	28.099	14.531	53.543	0.00	0.00
ATOM	7907	NH1	ARG	X	518	29.054	13.592	53.711	0.00	0.00
ATOM	7908	HH11	ARG	X	518	29.833	13.823	54.311	0.00	0.00
ATOM	7909	HH12	ARG	X	518	29.167	12.856	53.029	0.00	0.00
ATOM	7910	NH2	ARG	X	518	27.109	14.222	52.696	0.00	0.00
ATOM	7911	HH21	ARG	X	518	26.288	14.783	52.518	0.00	0.00
ATOM	7912	HH22	ARG	X	518	27.198	13.331	52.229	0.00	0.00
ATOM	7913	C	ARG	X	518	33.423	18.840	55.315	0.00	0.00
ATOM	7914	O	ARG	X	518	34.455	18.134	55.392	0.00	0.00
ATOM	7915	N	GLY	X	519	33.289	20.040	55.930	0.00	0.00
ATOM	7916	H	GLY	X	519	32.419	20.547	55.852	0.00	0.00
ATOM	7917	CA	GLY	X	519	34.248	20.772	56.778	0.00	0.00
ATOM	7918	HA2	GLY	X	519	33.733	21.520	57.382	0.00	0.00
ATOM	7919	HA3	GLY	X	519	34.862	20.105	57.382	0.00	0.00
ATOM	7920	C	GLY	X	519	35.267	21.547	55.903	0.00	0.00
ATOM	7921	O	GLY	X	519	36.441	21.153	55.949	0.00	0.00
ATOM	7922	N	LEU	X	520	34.783	22.453	55.043	0.00	0.00
ATOM	7923	H	LEU	X	520	33.787	22.592	54.957	0.00	0.00
ATOM	7924	CA	LEU	X	520	35.625	23.283	54.179	0.00	0.00
ATOM	7925	HA	LEU	X	520	35.881	22.740	53.269	0.00	0.00
ATOM	7926	CB	LEU	X	520	34.834	24.472	53.641	0.00	0.00
ATOM	7927	HB2	LEU	X	520	33.860	24.137	53.285	0.00	0.00
ATOM	7928	HB3	LEU	X	520	34.652	25.217	54.415	0.00	0.00
ATOM	7929	CG	LEU	X	520	35.551	25.352	52.614	0.00	0.00
ATOM	7930	HG	LEU	X	520	36.310	26.021	53.020	0.00	0.00
ATOM	7931	CD1	LEU	X	520	36.163	24.604	51.389	0.00	0.00
ATOM	7932	HD11	LEU	X	520	36.933	23.956	51.807	0.00	0.00
ATOM	7933	HD12	LEU	X	520	36.623	25.201	50.602	0.00	0.00
ATOM	7934	HD13	LEU	X	520	35.400	24.083	50.811	0.00	0.00
ATOM	7935	CD2	LEU	X	520	34.506	26.290	51.939	0.00	0.00
ATOM	7936	HD21	LEU	X	520	35.097	27.067	51.453	0.00	0.00
ATOM	7937	HD22	LEU	X	520	33.932	25.788	51.161	0.00	0.00
ATOM	7938	HD23	LEU	X	520	33.881	26.854	52.632	0.00	0.00
ATOM	7939	C	LEU	X	520	36.970	23.775	54.783	0.00	0.00
ATOM	7940	O	LEU	X	520	36.890	24.770	55.509	0.00	0.00
ATOM	7941	N	ARG	X	521	38.060	23.129	54.432	0.00	0.00
ATOM	7942	H	ARG	X	521	37.936	22.376	53.770	0.00	0.00
ATOM	7943	CA	ARG	X	521	39.391	23.633	54.766	0.00	0.00
ATOM	7944	HA	ARG	X	521	40.039	22.844	54.385	0.00	0.00
ATOM	7945	CB	ARG	X	521	39.692	24.972	54.018	0.00	0.00
ATOM	7946	HB2	ARG	X	521	39.107	25.039	53.100	0.00	0.00
ATOM	7947	HB3	ARG	X	521	39.258	25.851	54.494	0.00	0.00
ATOM	7948	CG	ARG	X	521	41.153	24.940	53.551	0.00	0.00
ATOM	7949	HG2	ARG	X	521	41.458	25.928	53.205	0.00	0.00
ATOM	7950	HG3	ARG	X	521	41.825	24.768	54.392	0.00	0.00

ATOM	7951	CD	ARG	X	521	41.430	23.890	52.434	0.00	0.00
ATOM	7952	HD2	ARG	X	521	41.487	22.890	52.865	0.00	0.00
ATOM	7953	HD3	ARG	X	521	40.604	23.911	51.723	0.00	0.00
ATOM	7954	NE	ARG	X	521	42.693	24.161	51.756	0.00	0.00
ATOM	7955	HE	ARG	X	521	43.321	24.922	51.973	0.00	0.00
ATOM	7956	CZ	ARG	X	521	43.097	23.349	50.828	0.00	0.00
ATOM	7957	NH1	ARG	X	521	42.314	22.508	50.231	0.00	0.00
ATOM	7958	HH11	ARG	X	521	41.384	22.242	50.523	0.00	0.00
ATOM	7959	HH12	ARG	X	521	42.684	22.083	49.394	0.00	0.00
ATOM	7960	NH2	ARG	X	521	44.348	23.417	50.426	0.00	0.00
ATOM	7961	HH21	ARG	X	521	44.908	24.161	50.817	0.00	0.00
ATOM	7962	HH22	ARG	X	521	44.750	22.840	49.701	0.00	0.00
ATOM	7963	C	ARG	X	521	39.772	23.739	56.249	0.00	0.00
ATOM	7964	O	ARG	X	521	40.740	24.424	56.677	0.00	0.00
ATOM	7965	N	ALA	X	522	38.923	23.262	57.141	0.00	0.00
ATOM	7966	H	ALA	X	522	38.080	22.946	56.683	0.00	0.00
ATOM	7967	CA	ALA	X	522	38.842	23.539	58.567	0.00	0.00
ATOM	7968	HA	ALA	X	522	38.972	24.616	58.672	0.00	0.00
ATOM	7969	CB	ALA	X	522	37.462	23.023	59.093	0.00	0.00
ATOM	7970	HB1	ALA	X	522	37.317	23.413	60.101	0.00	0.00
ATOM	7971	HB2	ALA	X	522	37.300	21.950	58.991	0.00	0.00
ATOM	7972	HB3	ALA	X	522	36.715	23.358	58.374	0.00	0.00
ATOM	7973	C	ALA	X	522	40.020	22.969	59.369	0.00	0.00
ATOM	7974	O	ALA	X	522	40.162	23.217	60.591	0.00	0.00
ATOM	7975	N	GLN	X	523	40.835	22.160	58.714	0.00	0.00
ATOM	7976	H	GLN	X	523	40.564	21.823	57.801	0.00	0.00
ATOM	7977	CA	GLN	X	523	42.155	21.718	59.273	0.00	0.00
ATOM	7978	HA	GLN	X	523	41.944	21.457	60.310	0.00	0.00
ATOM	7979	CB	GLN	X	523	42.682	20.486	58.580	0.00	0.00
ATOM	7980	HB2	GLN	X	523	42.854	20.627	57.513	0.00	0.00
ATOM	7981	HB3	GLN	X	523	43.718	20.405	58.910	0.00	0.00
ATOM	7982	CG	GLN	X	523	41.999	19.146	58.829	0.00	0.00
ATOM	7983	HG2	GLN	X	523	40.921	19.224	58.688	0.00	0.00
ATOM	7984	HG3	GLN	X	523	42.419	18.394	58.160	0.00	0.00
ATOM	7985	CD	GLN	X	523	42.222	18.599	60.215	0.00	0.00
ATOM	7986	OE1	GLN	X	523	43.284	18.137	60.564	0.00	0.00
ATOM	7987	NE2	GLN	X	523	41.320	18.793	61.063	0.00	0.00
ATOM	7988	HE21	GLN	X	523	41.522	18.308	61.925	0.00	0.00
ATOM	7989	HE22	GLN	X	523	40.397	19.120	60.818	0.00	0.00
ATOM	7990	C	GLN	X	523	43.240	22.839	59.180	0.00	0.00
ATOM	7991	O	GLN	X	523	43.930	23.042	60.178	0.00	0.00
ATOM	7992	N	ALA	X	524	43.302	23.658	58.086	0.00	0.00
ATOM	7993	H	ALA	X	524	42.717	23.473	57.284	0.00	0.00
ATOM	7994	CA	ALA	X	524	44.135	24.851	58.048	0.00	0.00
ATOM	7995	HA	ALA	X	524	45.032	24.690	58.646	0.00	0.00
ATOM	7996	CB	ALA	X	524	44.638	25.231	56.670	0.00	0.00
ATOM	7997	HB1	ALA	X	524	45.448	25.960	56.642	0.00	0.00
ATOM	7998	HB2	ALA	X	524	43.828	25.754	56.161	0.00	0.00
ATOM	7999	HB3	ALA	X	524	44.938	24.329	56.136	0.00	0.00
ATOM	8000	C	ALA	X	524	43.479	26.071	58.781	0.00	0.00
ATOM	8001	O	ALA	X	524	44.187	26.845	59.405	0.00	0.00
ATOM	8002	N	CYX	X	525	42.151	26.158	58.750	0.00	0.00
ATOM	8003	H	CYX	X	525	41.728	25.498	58.113	0.00	0.00
ATOM	8004	CA	CYX	X	525	41.562	27.493	58.944	0.00	0.00
ATOM	8005	HA	CYX	X	525	42.236	28.231	58.508	0.00	0.00
ATOM	8006	CB	CYX	X	525	40.303	27.608	58.139	0.00	0.00
ATOM	8007	HB2	CYX	X	525	39.729	26.761	58.515	0.00	0.00
ATOM	8008	HB3	CYX	X	525	39.736	28.511	58.366	0.00	0.00
ATOM	8009	SG	CYX	X	525	40.483	27.486	56.349	0.00	0.00
ATOM	8010	C	CYX	X	525	41.327	27.949	60.407	0.00	0.00
ATOM	8011	O	CYX	X	525	41.175	29.190	60.664	0.00	0.00
ATOM	8012	N	ALA	X	526	41.333	26.946	61.318	0.00	0.00
ATOM	8013	H	ALA	X	526	41.520	25.985	61.072	0.00	0.00
ATOM	8014	CA	ALA	X	526	41.297	27.243	62.708	0.00	0.00
ATOM	8015	HA	ALA	X	526	40.419	27.860	62.897	0.00	0.00
ATOM	8016	CB	ALA	X	526	41.043	25.916	63.360	0.00	0.00
ATOM	8017	HB1	ALA	X	526	40.077	25.558	63.004	0.00	0.00

ATOM	8018	HB2	ALA	X	526	40.989	26.041	64.442	0.00	0.00
ATOM	8019	HB3	ALA	X	526	41.866	25.214	63.225	0.00	0.00
ATOM	8020	C	ALA	X	526	42.462	28.062	63.107	0.00	0.00
ATOM	8021	O	ALA	X	526	42.370	29.165	63.761	0.00	0.00
ATOM	8022	N	PHE	X	527	43.616	27.625	62.635	0.00	0.00
ATOM	8023	H	PHE	X	527	43.535	26.894	61.944	0.00	0.00
ATOM	8024	CA	PHE	X	527	44.899	28.281	62.748	0.00	0.00
ATOM	8025	HA	PHE	X	527	45.212	28.338	63.790	0.00	0.00
ATOM	8026	CB	PHE	X	527	45.947	27.411	62.011	0.00	0.00
ATOM	8027	HB2	PHE	X	527	45.892	26.401	62.419	0.00	0.00
ATOM	8028	HB3	PHE	X	527	45.831	27.328	60.931	0.00	0.00
ATOM	8029	CG	PHE	X	527	47.355	27.867	62.184	0.00	0.00
ATOM	8030	CD1	PHE	X	527	48.014	27.695	63.421	0.00	0.00
ATOM	8031	HD1	PHE	X	527	47.549	27.171	64.243	0.00	0.00
ATOM	8032	CE1	PHE	X	527	49.288	28.126	63.560	0.00	0.00
ATOM	8033	HE1	PHE	X	527	49.829	27.931	64.474	0.00	0.00
ATOM	8034	CZ	PHE	X	527	49.972	28.752	62.504	0.00	0.00
ATOM	8035	HZ	PHE	X	527	51.012	29.002	62.658	0.00	0.00
ATOM	8036	CE2	PHE	X	527	49.356	28.956	61.212	0.00	0.00
ATOM	8037	HE2	PHE	X	527	49.878	29.466	60.415	0.00	0.00
ATOM	8038	CD2	PHE	X	527	48.043	28.476	61.074	0.00	0.00
ATOM	8039	HD2	PHE	X	527	47.472	28.665	60.177	0.00	0.00
ATOM	8040	C	PHE	X	527	44.981	29.687	62.129	0.00	0.00
ATOM	8041	O	PHE	X	527	45.346	30.609	62.753	0.00	0.00
ATOM	8042	N	TRP	X	528	44.425	29.888	60.946	0.00	0.00
ATOM	8043	H	TRP	X	528	44.129	29.044	60.477	0.00	0.00
ATOM	8044	CA	TRP	X	528	44.460	31.127	60.206	0.00	0.00
ATOM	8045	HA	TRP	X	528	45.441	31.574	60.371	0.00	0.00
ATOM	8046	CB	TRP	X	528	44.471	30.993	58.658	0.00	0.00
ATOM	8047	HB2	TRP	X	528	43.568	30.491	58.310	0.00	0.00
ATOM	8048	HB3	TRP	X	528	44.462	31.990	58.220	0.00	0.00
ATOM	8049	CG	TRP	X	528	45.567	30.152	58.049	0.00	0.00
ATOM	8050	CD1	TRP	X	528	45.384	29.010	57.368	0.00	0.00
ATOM	8051	HD1	TRP	X	528	44.411	28.543	57.314	0.00	0.00
ATOM	8052	NE1	TRP	X	528	46.568	28.540	56.769	0.00	0.00
ATOM	8053	HE1	TRP	X	528	46.497	27.838	56.046	0.00	0.00
ATOM	8054	CE2	TRP	X	528	47.595	29.466	56.997	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	48.942	29.597	56.606	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	49.329	28.788	56.005	0.00	0.00
ATOM	8057	CH2	TRP	X	528	49.746	30.527	57.255	0.00	0.00
ATOM	8058	HH2	TRP	X	528	50.742	30.677	56.864	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	49.208	31.447	58.134	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	49.713	32.378	58.348	0.00	0.00
ATOM	8061	CE3	TRP	X	528	47.841	31.456	58.412	0.00	0.00
ATOM	8062	HE3	TRP	X	528	47.311	32.306	58.814	0.00	0.00
ATOM	8063	CD2	TRP	X	528	47.025	30.384	57.946	0.00	0.00
ATOM	8064	C	TRP	X	528	43.455	32.158	60.753	0.00	0.00
ATOM	8065	O	TRP	X	528	43.680	33.330	60.829	0.00	0.00
ATOM	8066	N	ASN	X	529	42.245	31.648	61.056	0.00	0.00
ATOM	8067	H	ASN	X	529	42.113	30.647	61.064	0.00	0.00
ATOM	8068	CA	ASN	X	529	41.121	32.501	61.490	0.00	0.00
ATOM	8069	HA	ASN	X	529	41.253	33.507	61.092	0.00	0.00
ATOM	8070	CB	ASN	X	529	39.858	31.998	60.793	0.00	0.00
ATOM	8071	HB2	ASN	X	529	39.511	31.084	61.277	0.00	0.00
ATOM	8072	HB3	ASN	X	529	38.998	32.641	60.978	0.00	0.00
ATOM	8073	CG	ASN	X	529	39.875	31.592	59.309	0.00	0.00
ATOM	8074	OD1	ASN	X	529	40.766	31.859	58.593	0.00	0.00
ATOM	8075	ND2	ASN	X	529	38.782	31.012	58.860	0.00	0.00
ATOM	8076	HD21	ASN	X	529	38.676	30.744	57.892	0.00	0.00
ATOM	8077	HD22	ASN	X	529	38.159	30.720	59.599	0.00	0.00
ATOM	8078	C	ASN	X	529	40.864	32.761	63.039	0.00	0.00
ATOM	8079	O	ASN	X	529	39.860	33.358	63.477	0.00	0.00
ATOM	8080	N	ARG	X	530	41.839	32.263	63.830	0.00	0.00
ATOM	8081	H	ARG	X	530	42.543	31.738	63.331	0.00	0.00
ATOM	8082	CA	ARG	X	530	41.958	32.529	65.271	0.00	0.00
ATOM	8083	HA	ARG	X	530	41.638	33.553	65.465	0.00	0.00
ATOM	8084	CB	ARG	X	530	40.893	31.592	66.024	0.00	0.00

ATOM	8085	HB2	ARG	X	530	39.930	31.600	65.515	0.00	0.00
ATOM	8086	HB3	ARG	X	530	41.274	30.571	66.014	0.00	0.00
ATOM	8087	CG	ARG	X	530	40.583	32.014	67.447	0.00	0.00
ATOM	8088	HG2	ARG	X	530	41.454	31.984	68.101	0.00	0.00
ATOM	8089	HG3	ARG	X	530	40.271	33.054	67.354	0.00	0.00
ATOM	8090	CD	ARG	X	530	39.457	31.140	68.144	0.00	0.00
ATOM	8091	HD2	ARG	X	530	39.025	31.635	69.014	0.00	0.00
ATOM	8092	HD3	ARG	X	530	38.689	31.034	67.378	0.00	0.00
ATOM	8093	NE	ARG	X	530	39.941	29.786	68.520	0.00	0.00
ATOM	8094	HE	ARG	X	530	40.857	29.503	68.199	0.00	0.00
ATOM	8095	CZ	ARG	X	530	39.298	28.879	69.262	0.00	0.00
ATOM	8096	NH1	ARG	X	530	38.052	29.146	69.668	0.00	0.00
ATOM	8097	NH11	ARG	X	530	37.525	29.924	69.298	0.00	0.00
ATOM	8098	NH12	ARG	X	530	37.427	28.395	69.924	0.00	0.00
ATOM	8099	NH2	ARG	X	530	39.849	27.699	69.461	0.00	0.00
ATOM	8100	NH21	ARG	X	530	40.626	27.203	69.048	0.00	0.00
ATOM	8101	NH22	ARG	X	530	39.334	27.187	70.163	0.00	0.00
ATOM	8102	C	ARG	X	530	43.336	32.369	65.906	0.00	0.00
ATOM	8103	O	ARG	X	530	43.799	33.372	66.481	0.00	0.00
ATOM	8104	N	PHE	X	531	44.113	31.259	65.741	0.00	0.00
ATOM	8105	H	PHE	X	531	43.799	30.445	65.231	0.00	0.00
ATOM	8106	CA	PHE	X	531	45.404	31.137	66.444	0.00	0.00
ATOM	8107	HA	PHE	X	531	45.147	31.363	67.479	0.00	0.00
ATOM	8108	CB	PHE	X	531	45.993	29.729	66.251	0.00	0.00
ATOM	8109	HB2	PHE	X	531	45.242	28.947	66.360	0.00	0.00
ATOM	8110	HB3	PHE	X	531	46.274	29.704	65.198	0.00	0.00
ATOM	8111	CG	PHE	X	531	47.164	29.362	67.140	0.00	0.00
ATOM	8112	CD1	PHE	X	531	48.486	29.358	66.641	0.00	0.00
ATOM	8113	HD1	PHE	X	531	48.744	29.730	65.660	0.00	0.00
ATOM	8114	CE1	PHE	X	531	49.582	28.972	67.465	0.00	0.00
ATOM	8115	HE1	PHE	X	531	50.615	28.941	67.149	0.00	0.00
ATOM	8116	CZ	PHE	X	531	49.372	28.700	68.819	0.00	0.00
ATOM	8117	HZ	PHE	X	531	50.138	28.345	69.493	0.00	0.00
ATOM	8118	CE2	PHE	X	531	48.073	28.767	69.396	0.00	0.00
ATOM	8119	HE2	PHE	X	531	48.032	28.682	70.471	0.00	0.00
ATOM	8120	CD2	PHE	X	531	46.976	29.127	68.546	0.00	0.00
ATOM	8121	HD2	PHE	X	531	45.958	29.067	68.902	0.00	0.00
ATOM	8122	C	PHE	X	531	46.526	32.032	65.920	0.00	0.00
ATOM	8123	O	PHE	X	531	47.253	32.601	66.732	0.00	0.00
ATOM	8124	N	LEU	X	532	46.746	32.150	64.606	0.00	0.00
ATOM	8125	H	LEU	X	532	46.148	31.623	63.985	0.00	0.00
ATOM	8126	CA	LEU	X	532	47.866	32.844	64.031	0.00	0.00
ATOM	8127	HA	LEU	X	532	48.731	32.539	64.620	0.00	0.00
ATOM	8128	CB	LEU	X	532	47.934	32.405	62.545	0.00	0.00
ATOM	8129	HB2	LEU	X	532	47.831	31.325	62.448	0.00	0.00
ATOM	8130	HB3	LEU	X	532	47.043	32.844	62.096	0.00	0.00
ATOM	8131	CG	LEU	X	532	49.291	32.779	61.827	0.00	0.00
ATOM	8132	HG	LEU	X	532	49.252	32.151	60.937	0.00	0.00
ATOM	8133	CD1	LEU	X	532	49.325	34.207	61.226	0.00	0.00
ATOM	8134	HD11	LEU	X	532	49.070	34.890	62.036	0.00	0.00
ATOM	8135	HD12	LEU	X	532	48.726	34.238	60.316	0.00	0.00
ATOM	8136	HD13	LEU	X	532	50.357	34.401	60.931	0.00	0.00
ATOM	8137	CD2	LEU	X	532	50.591	32.467	62.577	0.00	0.00
ATOM	8138	HD21	LEU	X	532	50.792	33.104	63.438	0.00	0.00
ATOM	8139	HD22	LEU	X	532	50.349	31.492	63.000	0.00	0.00
ATOM	8140	HD23	LEU	X	532	51.482	32.454	61.950	0.00	0.00
ATOM	8141	C	LEU	X	532	47.836	34.369	64.355	0.00	0.00
ATOM	8142	O	LEU	X	532	48.801	34.932	64.890	0.00	0.00
ATOM	8143	N	PRO	X	533	46.738	35.140	64.044	0.00	0.00
ATOM	8144	CD	PRO	X	533	45.450	34.695	63.418	0.00	0.00
ATOM	8145	HD2	PRO	X	533	44.954	33.812	63.820	0.00	0.00
ATOM	8146	HD3	PRO	X	533	45.600	34.664	62.339	0.00	0.00
ATOM	8147	CG	PRO	X	533	44.461	35.857	63.769	0.00	0.00
ATOM	8148	HG2	PRO	X	533	44.185	35.795	64.822	0.00	0.00
ATOM	8149	HG3	PRO	X	533	43.691	35.945	63.003	0.00	0.00
ATOM	8150	CB	PRO	X	533	45.372	37.101	63.724	0.00	0.00
ATOM	8151	HB2	PRO	X	533	44.913	37.978	64.179	0.00	0.00

ATOM	8152	HB3	PRO	X	533	45.624	37.353	62.694	0.00	0.00
ATOM	8153	CA	PRO	X	533	46.682	36.628	64.303	0.00	0.00
ATOM	8154	HA	PRO	X	533	47.449	37.213	63.796	0.00	0.00
ATOM	8155	C	PRO	X	533	46.776	36.917	65.782	0.00	0.00
ATOM	8156	O	PRO	X	533	47.453	37.896	66.076	0.00	0.00
ATOM	8157	N	LYS	X	534	46.356	36.048	66.713	0.00	0.00
ATOM	8158	H	LYS	X	534	46.006	35.148	66.417	0.00	0.00
ATOM	8159	CA	LYS	X	534	46.640	36.373	68.159	0.00	0.00
ATOM	8160	HA	LYS	X	534	46.357	37.391	68.428	0.00	0.00
ATOM	8161	CB	LYS	X	534	45.630	35.684	69.138	0.00	0.00
ATOM	8162	HB2	LYS	X	534	45.755	34.602	69.103	0.00	0.00
ATOM	8163	HB3	LYS	X	534	45.818	35.949	70.179	0.00	0.00
ATOM	8164	CG	LYS	X	534	44.139	35.995	68.871	0.00	0.00
ATOM	8165	HG2	LYS	X	534	44.047	37.075	68.985	0.00	0.00
ATOM	8166	HG3	LYS	X	534	43.938	35.612	67.870	0.00	0.00
ATOM	8167	CD	LYS	X	534	43.312	35.130	69.806	0.00	0.00
ATOM	8168	HD2	LYS	X	534	43.648	34.095	69.746	0.00	0.00
ATOM	8169	HD3	LYS	X	534	43.462	35.521	70.812	0.00	0.00
ATOM	8170	CE	LYS	X	534	41.866	35.113	69.585	0.00	0.00
ATOM	8171	HE2	LYS	X	534	41.477	36.111	69.790	0.00	0.00
ATOM	8172	HE3	LYS	X	534	41.610	34.797	68.574	0.00	0.00
ATOM	8173	NZ	LYS	X	534	41.312	34.353	70.692	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	41.539	34.847	71.543	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	40.305	34.279	70.718	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	41.803	33.483	70.842	0.00	0.00
ATOM	8177	C	LYS	X	534	48.046	36.123	68.706	0.00	0.00
ATOM	8178	O	LYS	X	534	48.515	36.778	69.615	0.00	0.00
ATOM	8179	N	LEU	X	535	48.790	35.207	68.119	0.00	0.00
ATOM	8180	H	LEU	X	535	48.371	34.750	67.322	0.00	0.00
ATOM	8181	CA	LEU	X	535	50.215	35.128	68.340	0.00	0.00
ATOM	8182	HA	LEU	X	535	50.556	34.957	69.361	0.00	0.00
ATOM	8183	CB	LEU	X	535	50.638	33.958	67.448	0.00	0.00
ATOM	8184	HB2	LEU	X	535	49.960	33.146	67.711	0.00	0.00
ATOM	8185	HB3	LEU	X	535	50.530	34.231	66.399	0.00	0.00
ATOM	8186	CG	LEU	X	535	52.064	33.339	67.659	0.00	0.00
ATOM	8187	HG	LEU	X	535	52.176	32.935	68.666	0.00	0.00
ATOM	8188	CD1	LEU	X	535	52.209	32.058	66.825	0.00	0.00
ATOM	8189	HD11	LEU	X	535	53.213	31.635	66.875	0.00	0.00
ATOM	8190	HD12	LEU	X	535	51.966	32.379	65.812	0.00	0.00
ATOM	8191	HD13	LEU	X	535	51.469	31.321	67.135	0.00	0.00
ATOM	8192	CD2	LEU	X	535	53.270	34.269	67.561	0.00	0.00
ATOM	8193	HD21	LEU	X	535	52.996	34.946	66.752	0.00	0.00
ATOM	8194	HD22	LEU	X	535	53.411	34.788	68.509	0.00	0.00
ATOM	8195	HD23	LEU	X	535	54.225	33.804	67.317	0.00	0.00
ATOM	8196	C	LEU	X	535	50.889	36.487	67.883	0.00	0.00
ATOM	8197	O	LEU	X	535	51.751	37.081	68.551	0.00	0.00
ATOM	8198	N	LEU	X	536	50.549	37.031	66.714	0.00	0.00
ATOM	8199	H	LEU	X	536	50.001	36.391	66.158	0.00	0.00
ATOM	8200	CA	LEU	X	536	51.091	38.308	66.056	0.00	0.00
ATOM	8201	HA	LEU	X	536	52.181	38.305	66.081	0.00	0.00
ATOM	8202	CB	LEU	X	536	50.704	38.408	64.545	0.00	0.00
ATOM	8203	HB2	LEU	X	536	49.624	38.416	64.394	0.00	0.00
ATOM	8204	HB3	LEU	X	536	51.195	39.217	64.004	0.00	0.00
ATOM	8205	CG	LEU	X	536	51.141	37.098	63.762	0.00	0.00
ATOM	8206	HG	LEU	X	536	50.856	36.190	64.292	0.00	0.00
ATOM	8207	CD1	LEU	X	536	50.527	37.351	62.334	0.00	0.00
ATOM	8208	HD11	LEU	X	536	49.528	36.917	62.358	0.00	0.00
ATOM	8209	HD12	LEU	X	536	50.911	36.705	61.544	0.00	0.00
ATOM	8210	HD13	LEU	X	536	50.465	38.402	62.054	0.00	0.00
ATOM	8211	CD2	LEU	X	536	52.657	37.105	63.562	0.00	0.00
ATOM	8212	HD21	LEU	X	536	53.145	36.480	62.814	0.00	0.00
ATOM	8213	HD22	LEU	X	536	52.927	38.119	63.268	0.00	0.00
ATOM	8214	HD23	LEU	X	536	53.134	36.933	64.527	0.00	0.00
ATOM	8215	C	LEU	X	536	50.642	39.522	66.764	0.00	0.00
ATOM	8216	O	LEU	X	536	51.220	40.568	66.625	0.00	0.00
ATOM	8217	N	SER	X	537	49.765	39.374	67.698	0.00	0.00
ATOM	8218	H	SER	X	537	49.185	38.558	67.832	0.00	0.00

ATOM	8219	CA	SER	X	537	49.428	40.396	68.743	0.00	0.00
ATOM	8220	HA	SER	X	537	49.733	41.408	68.475	0.00	0.00
ATOM	8221	CB	SER	X	537	47.911	40.455	68.973	0.00	0.00
ATOM	8222	HB2	SER	X	537	47.572	39.528	69.434	0.00	0.00
ATOM	8223	HB3	SER	X	537	47.603	41.313	69.570	0.00	0.00
ATOM	8224	OG	SER	X	537	47.333	40.528	67.683	0.00	0.00
ATOM	8225	HG	SER	X	537	47.312	41.452	67.421	0.00	0.00
ATOM	8226	C	SER	X	537	50.218	40.236	70.045	0.00	0.00
ATOM	8227	O	SER	X	537	50.197	41.102	70.853	0.00	0.00
ATOM	8228	N	ALA	X	538	50.909	39.066	70.276	0.00	0.00
ATOM	8229	H	ALA	X	538	50.786	38.327	69.599	0.00	0.00
ATOM	8230	CA	ALA	X	538	51.876	38.798	71.369	0.00	0.00
ATOM	8231	HA	ALA	X	538	51.906	39.511	72.194	0.00	0.00
ATOM	8232	CB	ALA	X	538	51.439	37.472	71.990	0.00	0.00
ATOM	8233	HB1	ALA	X	538	52.220	36.972	72.562	0.00	0.00
ATOM	8234	HB2	ALA	X	538	51.132	36.752	71.231	0.00	0.00
ATOM	8235	HB3	ALA	X	538	50.603	37.641	72.669	0.00	0.00
ATOM	8236	C	ALA	X	538	53.328	38.848	70.899	0.00	0.00
ATOM	8237	O	ALA	X	538	54.261	38.539	71.647	0.00	0.00
ATOM	8238	N	THR	X	539	53.639	39.335	69.731	0.00	0.00
ATOM	8239	H	THR	X	539	52.822	39.544	69.175	0.00	0.00
ATOM	8240	CA	THR	X	539	54.940	39.602	69.156	0.00	0.00
ATOM	8241	HA	THR	X	539	55.632	39.800	69.976	0.00	0.00
ATOM	8242	CB	THR	X	539	55.435	38.514	68.264	0.00	0.00
ATOM	8243	HB	THR	X	539	56.311	38.866	67.719	0.00	0.00
ATOM	8244	CG2	THR	X	539	55.869	37.360	69.113	0.00	0.00
ATOM	8245	HG21	THR	X	539	54.919	36.916	69.408	0.00	0.00
ATOM	8246	HG22	THR	X	539	56.366	37.658	70.037	0.00	0.00
ATOM	8247	HG23	THR	X	539	56.418	36.612	68.541	0.00	0.00
ATOM	8248	OG1	THR	X	539	54.533	38.042	67.330	0.00	0.00
ATOM	8249	HG1	THR	X	539	53.907	37.532	67.850	0.00	0.00
ATOM	8250	C	THR	X	539	54.775	40.951	68.425	0.00	0.00
ATOM	8251	O	THR	X	539	55.554	41.157	67.456	0.00	0.00
ATOM	8252	OXT	THR	X	539	54.069	41.789	68.977	0.00	0.00

END

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1B41 Production MD Frame 0400
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CRYST1	82.107	82.107	82.107	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	17.332	46.732	11.384	0.00	0.00
ATOM	2	H1	ASP	X	1	17.369	46.548	10.392	0.00	0.00
ATOM	3	H2	ASP	X	1	16.664	46.099	11.799	0.00	0.00
ATOM	4	H3	ASP	X	1	18.208	46.480	11.820	0.00	0.00
ATOM	5	CA	ASP	X	1	16.936	48.129	11.544	0.00	0.00
ATOM	6	HA	ASP	X	1	17.688	48.784	11.104	0.00	0.00
ATOM	7	CB	ASP	X	1	15.475	48.448	10.975	0.00	0.00
ATOM	8	HB2	ASP	X	1	15.558	48.049	9.963	0.00	0.00
ATOM	9	HB3	ASP	X	1	14.706	47.837	11.448	0.00	0.00
ATOM	10	CG	ASP	X	1	15.241	49.926	10.926	0.00	0.00
ATOM	11	OD1	ASP	X	1	14.823	50.367	12.000	0.00	0.00
ATOM	12	OD2	ASP	X	1	15.604	50.639	9.938	0.00	0.00
ATOM	13	C	ASP	X	1	17.014	48.549	13.025	0.00	0.00
ATOM	14	O	ASP	X	1	18.082	49.033	13.404	0.00	0.00
ATOM	15	N	ALA	X	2	16.008	48.112	13.813	0.00	0.00
ATOM	16	H	ALA	X	2	15.216	47.636	13.405	0.00	0.00
ATOM	17	CA	ALA	X	2	16.004	48.408	15.262	0.00	0.00
ATOM	18	HA	ALA	X	2	16.303	49.451	15.369	0.00	0.00
ATOM	19	CB	ALA	X	2	14.545	48.282	15.636	0.00	0.00
ATOM	20	HB1	ALA	X	2	13.962	48.977	15.031	0.00	0.00
ATOM	21	HB2	ALA	X	2	14.350	48.502	16.686	0.00	0.00
ATOM	22	HB3	ALA	X	2	14.135	47.278	15.534	0.00	0.00
ATOM	23	C	ALA	X	2	16.931	47.532	16.119	0.00	0.00
ATOM	24	O	ALA	X	2	17.276	47.978	17.218	0.00	0.00

ATOM	25	N	GLU	X	3	17.337	46.371	15.607	0.00	0.00
ATOM	26	H	GLU	X	3	16.764	46.001	14.862	0.00	0.00
ATOM	27	CA	GLU	X	3	18.194	45.378	16.313	0.00	0.00
ATOM	28	HA	GLU	X	3	17.616	45.121	17.201	0.00	0.00
ATOM	29	CB	GLU	X	3	18.361	44.121	15.454	0.00	0.00
ATOM	30	HB2	GLU	X	3	18.937	44.383	14.566	0.00	0.00
ATOM	31	HB3	GLU	X	3	18.988	43.378	15.946	0.00	0.00
ATOM	32	CG	GLU	X	3	17.059	43.440	15.005	0.00	0.00
ATOM	33	HG2	GLU	X	3	17.289	42.375	14.973	0.00	0.00
ATOM	34	HG3	GLU	X	3	16.292	43.642	15.753	0.00	0.00
ATOM	35	CD	GLU	X	3	16.847	43.801	13.502	0.00	0.00
ATOM	36	OE1	GLU	X	3	16.545	45.031	13.187	0.00	0.00
ATOM	37	OE2	GLU	X	3	16.618	42.918	12.631	0.00	0.00
ATOM	38	C	GLU	X	3	19.533	45.907	16.890	0.00	0.00
ATOM	39	O	GLU	X	3	19.988	45.345	17.947	0.00	0.00
ATOM	40	N	LEU	X	4	20.224	46.836	16.232	0.00	0.00
ATOM	41	H	LEU	X	4	20.024	46.940	15.247	0.00	0.00
ATOM	42	CA	LEU	X	4	21.585	47.353	16.671	0.00	0.00
ATOM	43	HA	LEU	X	4	21.851	46.858	17.605	0.00	0.00
ATOM	44	CB	LEU	X	4	22.758	46.944	15.648	0.00	0.00
ATOM	45	HB2	LEU	X	4	22.540	47.490	14.730	0.00	0.00
ATOM	46	HB3	LEU	X	4	23.714	47.280	16.049	0.00	0.00
ATOM	47	CG	LEU	X	4	22.881	45.395	15.302	0.00	0.00
ATOM	48	HG	LEU	X	4	21.994	44.878	14.936	0.00	0.00
ATOM	49	CD1	LEU	X	4	24.051	45.239	14.367	0.00	0.00
ATOM	50	HD11	LEU	X	4	24.305	44.197	14.173	0.00	0.00
ATOM	51	HD12	LEU	X	4	24.945	45.767	14.699	0.00	0.00
ATOM	52	HD13	LEU	X	4	23.786	45.741	13.437	0.00	0.00
ATOM	53	CD2	LEU	X	4	23.331	44.616	16.509	0.00	0.00
ATOM	54	HD21	LEU	X	4	22.485	44.355	17.145	0.00	0.00
ATOM	55	HD22	LEU	X	4	23.773	43.648	16.271	0.00	0.00
ATOM	56	HD23	LEU	X	4	24.149	45.106	17.037	0.00	0.00
ATOM	57	C	LEU	X	4	21.667	48.878	16.967	0.00	0.00
ATOM	58	O	LEU	X	4	22.676	49.316	17.509	0.00	0.00
ATOM	59	N	LEU	X	5	20.618	49.613	16.662	0.00	0.00
ATOM	60	H	LEU	X	5	19.855	49.223	16.128	0.00	0.00
ATOM	61	CA	LEU	X	5	20.410	51.011	17.266	0.00	0.00
ATOM	62	HA	LEU	X	5	21.411	51.425	17.387	0.00	0.00
ATOM	63	CB	LEU	X	5	19.574	51.884	16.237	0.00	0.00
ATOM	64	HB2	LEU	X	5	19.862	51.543	15.243	0.00	0.00
ATOM	65	HB3	LEU	X	5	18.564	51.507	16.397	0.00	0.00
ATOM	66	CG	LEU	X	5	19.716	53.466	16.332	0.00	0.00
ATOM	67	HG	LEU	X	5	19.076	53.887	15.557	0.00	0.00
ATOM	68	CD1	LEU	X	5	19.286	54.013	17.672	0.00	0.00
ATOM	69	HD11	LEU	X	5	18.396	53.506	18.047	0.00	0.00
ATOM	70	HD12	LEU	X	5	18.998	55.054	17.522	0.00	0.00
ATOM	71	HD13	LEU	X	5	20.158	53.925	18.319	0.00	0.00
ATOM	72	CD2	LEU	X	5	21.168	53.810	15.861	0.00	0.00
ATOM	73	HD21	LEU	X	5	21.214	54.850	15.538	0.00	0.00
ATOM	74	HD22	LEU	X	5	21.769	53.614	16.749	0.00	0.00
ATOM	75	HD23	LEU	X	5	21.355	53.023	15.131	0.00	0.00
ATOM	76	C	LEU	X	5	19.774	51.001	18.702	0.00	0.00
ATOM	77	O	LEU	X	5	18.672	50.478	18.838	0.00	0.00
ATOM	78	N	VAL	X	6	20.393	51.509	19.748	0.00	0.00
ATOM	79	H	VAL	X	6	21.314	51.856	19.522	0.00	0.00
ATOM	80	CA	VAL	X	6	19.931	51.494	21.053	0.00	0.00
ATOM	81	HA	VAL	X	6	18.885	51.280	20.834	0.00	0.00
ATOM	82	CB	VAL	X	6	20.536	50.310	21.923	0.00	0.00
ATOM	83	HB	VAL	X	6	20.192	49.359	21.515	0.00	0.00
ATOM	84	CG1	VAL	X	6	22.146	50.164	21.963	0.00	0.00
ATOM	85	HG11	VAL	X	6	22.442	49.857	20.959	0.00	0.00
ATOM	86	HG12	VAL	X	6	22.560	51.142	22.206	0.00	0.00
ATOM	87	HG13	VAL	X	6	22.403	49.382	22.678	0.00	0.00
ATOM	88	CG2	VAL	X	6	19.976	50.295	23.358	0.00	0.00
ATOM	89	HG21	VAL	X	6	20.238	51.169	23.954	0.00	0.00
ATOM	90	HG22	VAL	X	6	20.251	49.396	23.910	0.00	0.00
ATOM	91	HG23	VAL	X	6	18.902	50.414	23.217	0.00	0.00

ATOM	92	C	VAL	X	6	19.998	52.929	21.694	0.00	0.00
ATOM	93	O	VAL	X	6	21.116	53.435	21.879	0.00	0.00
ATOM	94	N	THR	X	7	18.804	53.471	21.938	0.00	0.00
ATOM	95	H	THR	X	7	17.999	53.016	21.530	0.00	0.00
ATOM	96	CA	THR	X	7	18.557	54.775	22.507	0.00	0.00
ATOM	97	HA	THR	X	7	19.237	55.497	22.055	0.00	0.00
ATOM	98	CB	THR	X	7	17.164	55.232	22.059	0.00	0.00
ATOM	99	HB	THR	X	7	16.439	54.536	22.478	0.00	0.00
ATOM	100	CG2	THR	X	7	16.803	56.559	22.729	0.00	0.00
ATOM	101	HG21	THR	X	7	15.735	56.753	22.624	0.00	0.00
ATOM	102	HG22	THR	X	7	17.383	57.418	22.391	0.00	0.00
ATOM	103	HG23	THR	X	7	16.861	56.504	23.816	0.00	0.00
ATOM	104	OG1	THR	X	7	17.081	55.302	20.665	0.00	0.00
ATOM	105	HG1	THR	X	7	16.195	55.166	20.322	0.00	0.00
ATOM	106	C	THR	X	7	18.736	54.713	24.056	0.00	0.00
ATOM	107	O	THR	X	7	18.139	53.859	24.810	0.00	0.00
ATOM	108	N	VAL	X	8	19.419	55.745	24.523	0.00	0.00
ATOM	109	H	VAL	X	8	19.709	56.422	23.832	0.00	0.00
ATOM	110	CA	VAL	X	8	19.711	56.024	25.926	0.00	0.00
ATOM	111	HA	VAL	X	8	18.928	55.560	26.525	0.00	0.00
ATOM	112	CB	VAL	X	8	21.128	55.503	26.417	0.00	0.00
ATOM	113	HB	VAL	X	8	21.410	55.741	27.442	0.00	0.00
ATOM	114	CG1	VAL	X	8	21.307	53.976	26.337	0.00	0.00
ATOM	115	HG11	VAL	X	8	22.235	53.555	26.724	0.00	0.00
ATOM	116	HG12	VAL	X	8	20.550	53.443	26.912	0.00	0.00
ATOM	117	HG13	VAL	X	8	21.203	53.634	25.308	0.00	0.00
ATOM	118	CG2	VAL	X	8	22.175	56.133	25.441	0.00	0.00
ATOM	119	HG21	VAL	X	8	22.007	55.945	24.381	0.00	0.00
ATOM	120	HG22	VAL	X	8	23.188	55.829	25.704	0.00	0.00
ATOM	121	HG23	VAL	X	8	22.175	57.222	25.501	0.00	0.00
ATOM	122	C	VAL	X	8	19.602	57.489	26.265	0.00	0.00
ATOM	123	O	VAL	X	8	19.453	58.344	25.359	0.00	0.00
ATOM	124	N	ARG	X	9	19.720	57.774	27.564	0.00	0.00
ATOM	125	H	ARG	X	9	19.922	57.014	28.197	0.00	0.00
ATOM	126	CA	ARG	X	9	19.587	59.205	28.056	0.00	0.00
ATOM	127	HA	ARG	X	9	18.547	59.505	28.182	0.00	0.00
ATOM	128	CB	ARG	X	9	20.048	59.256	29.563	0.00	0.00
ATOM	129	HB2	ARG	X	9	19.231	58.792	30.115	0.00	0.00
ATOM	130	HB3	ARG	X	9	20.934	58.634	29.694	0.00	0.00
ATOM	131	CG	ARG	X	9	20.287	60.685	30.164	0.00	0.00
ATOM	132	HG2	ARG	X	9	21.249	61.007	29.765	0.00	0.00
ATOM	133	HG3	ARG	X	9	19.557	61.408	29.802	0.00	0.00
ATOM	134	CD	ARG	X	9	20.366	60.801	31.708	0.00	0.00
ATOM	135	HD2	ARG	X	9	19.379	60.589	32.120	0.00	0.00
ATOM	136	HD3	ARG	X	9	21.085	60.045	32.024	0.00	0.00
ATOM	137	NE	ARG	X	9	20.757	62.173	32.105	0.00	0.00
ATOM	138	HE	ARG	X	9	20.502	62.847	31.397	0.00	0.00
ATOM	139	CZ	ARG	X	9	21.401	62.570	33.176	0.00	0.00
ATOM	140	NH1	ARG	X	9	21.792	61.749	34.170	0.00	0.00
ATOM	141	HH11	ARG	X	9	21.604	60.759	34.101	0.00	0.00
ATOM	142	HH12	ARG	X	9	22.285	62.065	34.992	0.00	0.00
ATOM	143	NH2	ARG	X	9	21.753	63.817	33.092	0.00	0.00
ATOM	144	HH21	ARG	X	9	21.519	64.409	32.307	0.00	0.00
ATOM	145	HH22	ARG	X	9	22.409	64.260	33.719	0.00	0.00
ATOM	146	C	ARG	X	9	20.327	60.287	27.216	0.00	0.00
ATOM	147	O	ARG	X	9	19.703	61.305	26.849	0.00	0.00
ATOM	148	N	GLY	X	10	21.555	60.113	26.786	0.00	0.00
ATOM	149	H	GLY	X	10	21.929	59.219	27.071	0.00	0.00
ATOM	150	CA	GLY	X	10	22.275	61.191	26.021	0.00	0.00
ATOM	151	HA2	GLY	X	10	21.979	62.195	26.326	0.00	0.00
ATOM	152	HA3	GLY	X	10	23.348	61.049	26.147	0.00	0.00
ATOM	153	C	GLY	X	10	21.963	61.286	24.544	0.00	0.00
ATOM	154	O	GLY	X	10	22.144	62.302	23.877	0.00	0.00
ATOM	155	N	GLY	X	11	21.497	60.165	24.019	0.00	0.00
ATOM	156	H	GLY	X	11	21.088	59.527	24.687	0.00	0.00
ATOM	157	CA	GLY	X	11	20.967	60.006	22.647	0.00	0.00
ATOM	158	HA2	GLY	X	11	19.961	60.414	22.551	0.00	0.00

ATOM	159	HA3	GLY	X	11	21.622	60.457	21.902	0.00	0.00
ATOM	160	C	GLY	X	11	20.986	58.578	22.243	0.00	0.00
ATOM	161	O	GLY	X	11	20.305	57.708	22.814	0.00	0.00
ATOM	162	N	ARG	X	12	21.730	58.365	21.105	0.00	0.00
ATOM	163	H	ARG	X	12	22.100	59.197	20.668	0.00	0.00
ATOM	164	CA	ARG	X	12	21.528	57.220	20.177	0.00	0.00
ATOM	165	HA	ARG	X	12	20.894	56.513	20.711	0.00	0.00
ATOM	166	CB	ARG	X	12	20.730	57.794	18.943	0.00	0.00
ATOM	167	HB2	ARG	X	12	21.144	58.652	18.414	0.00	0.00
ATOM	168	HB3	ARG	X	12	20.712	57.028	18.168	0.00	0.00
ATOM	169	CG	ARG	X	12	19.335	58.192	19.323	0.00	0.00
ATOM	170	HG2	ARG	X	12	18.944	57.369	19.923	0.00	0.00
ATOM	171	HG3	ARG	X	12	19.375	59.098	19.928	0.00	0.00
ATOM	172	CD	ARG	X	12	18.551	58.518	18.080	0.00	0.00
ATOM	173	HD2	ARG	X	12	19.169	58.904	17.269	0.00	0.00
ATOM	174	HD3	ARG	X	12	18.167	57.563	17.721	0.00	0.00
ATOM	175	NE	ARG	X	12	17.422	59.385	18.380	0.00	0.00
ATOM	176	HE	ARG	X	12	17.237	59.457	19.370	0.00	0.00
ATOM	177	CZ	ARG	X	12	16.550	59.868	17.546	0.00	0.00
ATOM	178	NH1	ARG	X	12	16.601	59.851	16.231	0.00	0.00
ATOM	179	HH11	ARG	X	12	17.352	59.398	15.730	0.00	0.00
ATOM	180	HH12	ARG	X	12	15.938	60.406	15.709	0.00	0.00
ATOM	181	NH2	ARG	X	12	15.550	60.473	18.163	0.00	0.00
ATOM	182	HH21	ARG	X	12	15.417	60.526	19.163	0.00	0.00
ATOM	183	HH22	ARG	X	12	14.809	60.981	17.703	0.00	0.00
ATOM	184	C	ARG	X	12	22.813	56.511	19.760	0.00	0.00
ATOM	185	O	ARG	X	12	23.598	57.116	18.969	0.00	0.00
ATOM	186	N	LEU	X	13	22.929	55.235	20.147	0.00	0.00
ATOM	187	H	LEU	X	13	22.206	54.882	20.758	0.00	0.00
ATOM	188	CA	LEU	X	13	24.190	54.422	19.997	0.00	0.00
ATOM	189	HA	LEU	X	13	24.901	55.081	19.499	0.00	0.00
ATOM	190	CB	LEU	X	13	24.732	53.972	21.369	0.00	0.00
ATOM	191	HB2	LEU	X	13	23.995	53.352	21.880	0.00	0.00
ATOM	192	HB3	LEU	X	13	25.600	53.326	21.239	0.00	0.00
ATOM	193	CG	LEU	X	13	25.030	55.193	22.383	0.00	0.00
ATOM	194	HG	LEU	X	13	24.125	55.801	22.356	0.00	0.00
ATOM	195	CD1	LEU	X	13	25.042	54.757	23.836	0.00	0.00
ATOM	196	HD11	LEU	X	13	24.177	54.138	24.073	0.00	0.00
ATOM	197	HD12	LEU	X	13	25.101	55.640	24.472	0.00	0.00
ATOM	198	HD13	LEU	X	13	25.867	54.075	24.040	0.00	0.00
ATOM	199	CD2	LEU	X	13	26.248	55.905	21.973	0.00	0.00
ATOM	200	HD21	LEU	X	13	26.998	55.124	21.850	0.00	0.00
ATOM	201	HD22	LEU	X	13	25.981	56.432	21.057	0.00	0.00
ATOM	202	HD23	LEU	X	13	26.489	56.565	22.807	0.00	0.00
ATOM	203	C	LEU	X	13	23.896	53.219	19.021	0.00	0.00
ATOM	204	O	LEU	X	13	22.804	52.618	18.922	0.00	0.00
ATOM	205	N	ARG	X	14	24.976	52.828	18.333	0.00	0.00
ATOM	206	H	ARG	X	14	25.787	53.429	18.291	0.00	0.00
ATOM	207	CA	ARG	X	14	24.949	51.736	17.386	0.00	0.00
ATOM	208	HA	ARG	X	14	23.982	51.235	17.359	0.00	0.00
ATOM	209	CB	ARG	X	14	25.256	52.227	15.983	0.00	0.00
ATOM	210	HB2	ARG	X	14	24.567	53.009	15.664	0.00	0.00
ATOM	211	HB3	ARG	X	14	26.170	52.819	16.013	0.00	0.00
ATOM	212	CG	ARG	X	14	25.205	51.147	14.938	0.00	0.00
ATOM	213	HG2	ARG	X	14	25.661	50.209	15.256	0.00	0.00
ATOM	214	HG3	ARG	X	14	24.201	50.842	14.644	0.00	0.00
ATOM	215	CD	ARG	X	14	25.978	51.648	13.732	0.00	0.00
ATOM	216	HD2	ARG	X	14	25.618	52.546	13.231	0.00	0.00
ATOM	217	HD3	ARG	X	14	26.946	51.939	14.140	0.00	0.00
ATOM	218	NE	ARG	X	14	26.104	50.671	12.647	0.00	0.00
ATOM	219	HE	ARG	X	14	27.018	50.250	12.565	0.00	0.00
ATOM	220	CZ	ARG	X	14	25.189	50.302	11.805	0.00	0.00
ATOM	221	NH1	ARG	X	14	23.965	50.800	11.772	0.00	0.00
ATOM	222	HH11	ARG	X	14	23.663	51.509	12.425	0.00	0.00
ATOM	223	HH12	ARG	X	14	23.378	50.725	10.953	0.00	0.00
ATOM	224	NH2	ARG	X	14	25.462	49.459	10.797	0.00	0.00
ATOM	225	HH21	ARG	X	14	26.349	48.989	10.687	0.00	0.00

ATOM	226	HH22	ARG	X	14	24.814	49.234	10.055	0.00	0.00
ATOM	227	C	ARG	X	14	26.016	50.732	17.805	0.00	0.00
ATOM	228	O	ARG	X	14	27.198	51.055	17.948	0.00	0.00
ATOM	229	N	GLY	X	15	25.633	49.409	17.858	0.00	0.00
ATOM	230	H	GLY	X	15	24.640	49.225	17.885	0.00	0.00
ATOM	231	CA	GLY	X	15	26.554	48.267	18.237	0.00	0.00
ATOM	232	HA2	GLY	X	15	27.486	48.564	18.720	0.00	0.00
ATOM	233	HA3	GLY	X	15	25.983	47.579	18.860	0.00	0.00
ATOM	234	C	GLY	X	15	26.921	47.392	17.062	0.00	0.00
ATOM	235	O	GLY	X	15	27.112	47.869	15.943	0.00	0.00
ATOM	236	N	ILE	X	16	27.151	46.076	17.364	0.00	0.00
ATOM	237	H	ILE	X	16	27.006	45.639	18.263	0.00	0.00
ATOM	238	CA	ILE	X	16	27.469	45.074	16.390	0.00	0.00
ATOM	239	HA	ILE	X	16	27.032	45.316	15.421	0.00	0.00
ATOM	240	CB	ILE	X	16	29.014	44.752	16.219	0.00	0.00
ATOM	241	HB	ILE	X	16	29.041	43.986	15.444	0.00	0.00
ATOM	242	CG2	ILE	X	16	29.726	45.945	15.781	0.00	0.00
ATOM	243	HG21	ILE	X	16	30.069	46.531	16.634	0.00	0.00
ATOM	244	HG22	ILE	X	16	29.162	46.546	15.068	0.00	0.00
ATOM	245	HG23	ILE	X	16	30.586	45.556	15.235	0.00	0.00
ATOM	246	CG1	ILE	X	16	29.651	44.089	17.514	0.00	0.00
ATOM	247	HG12	ILE	X	16	29.497	44.898	18.228	0.00	0.00
ATOM	248	HG13	ILE	X	16	29.187	43.199	17.940	0.00	0.00
ATOM	249	CD1	ILE	X	16	31.144	43.688	17.399	0.00	0.00
ATOM	250	HD11	ILE	X	16	31.518	43.189	18.293	0.00	0.00
ATOM	251	HD12	ILE	X	16	31.801	44.536	17.205	0.00	0.00
ATOM	252	HD13	ILE	X	16	31.172	42.892	16.654	0.00	0.00
ATOM	253	C	ILE	X	16	26.709	43.754	16.772	0.00	0.00
ATOM	254	O	ILE	X	16	26.322	43.567	17.933	0.00	0.00
ATOM	255	N	ARG	X	17	26.606	42.833	15.804	0.00	0.00
ATOM	256	H	ARG	X	17	26.769	43.180	14.869	0.00	0.00
ATOM	257	CA	ARG	X	17	26.343	41.427	16.047	0.00	0.00
ATOM	258	HA	ARG	X	17	25.744	41.364	16.955	0.00	0.00
ATOM	259	CB	ARG	X	17	25.547	40.908	14.855	0.00	0.00
ATOM	260	HB2	ARG	X	17	24.760	41.628	14.632	0.00	0.00
ATOM	261	HB3	ARG	X	17	26.223	41.029	14.009	0.00	0.00
ATOM	262	CG	ARG	X	17	24.958	39.478	14.942	0.00	0.00
ATOM	263	HG2	ARG	X	17	25.848	38.854	15.024	0.00	0.00
ATOM	264	HG3	ARG	X	17	24.320	39.401	15.822	0.00	0.00
ATOM	265	CD	ARG	X	17	24.032	39.058	13.779	0.00	0.00
ATOM	266	HD2	ARG	X	17	23.835	37.992	13.893	0.00	0.00
ATOM	267	HD3	ARG	X	17	23.037	39.501	13.744	0.00	0.00
ATOM	268	NE	ARG	X	17	24.684	39.109	12.492	0.00	0.00
ATOM	269	HE	ARG	X	17	25.531	39.648	12.387	0.00	0.00
ATOM	270	CZ	ARG	X	17	24.327	38.497	11.353	0.00	0.00
ATOM	271	NH1	ARG	X	17	23.359	37.610	11.331	0.00	0.00
ATOM	272	HH11	ARG	X	17	22.991	37.312	12.223	0.00	0.00
ATOM	273	HH12	ARG	X	17	23.238	37.079	10.481	0.00	0.00
ATOM	274	NH2	ARG	X	17	24.799	38.839	10.181	0.00	0.00
ATOM	275	HH21	ARG	X	17	25.350	39.683	10.122	0.00	0.00
ATOM	276	HH22	ARG	X	17	24.586	38.409	9.292	0.00	0.00
ATOM	277	C	ARG	X	17	27.621	40.562	16.213	0.00	0.00
ATOM	278	O	ARG	X	17	28.662	40.960	15.720	0.00	0.00
ATOM	279	N	LEU	X	18	27.565	39.440	16.965	0.00	0.00
ATOM	280	H	LEU	X	18	26.676	39.264	17.411	0.00	0.00
ATOM	281	CA	LEU	X	18	28.582	38.443	17.214	0.00	0.00
ATOM	282	HA	LEU	X	18	29.407	38.607	16.521	0.00	0.00
ATOM	283	CB	LEU	X	18	29.187	38.576	18.613	0.00	0.00
ATOM	284	HB2	LEU	X	18	28.302	38.432	19.232	0.00	0.00
ATOM	285	HB3	LEU	X	18	29.934	37.786	18.694	0.00	0.00
ATOM	286	CG	LEU	X	18	29.860	39.891	19.034	0.00	0.00
ATOM	287	HG	LEU	X	18	29.234	40.729	18.726	0.00	0.00
ATOM	288	CD1	LEU	X	18	30.238	39.829	20.550	0.00	0.00
ATOM	289	HD11	LEU	X	18	29.376	39.621	21.184	0.00	0.00
ATOM	290	HD12	LEU	X	18	30.656	40.789	20.855	0.00	0.00
ATOM	291	HD13	LEU	X	18	31.005	39.080	20.745	0.00	0.00
ATOM	292	CD2	LEU	X	18	31.159	40.058	18.256	0.00	0.00

ATOM	293	HD21	LEU	X	18	30.815	40.161	17.226	0.00	0.00
ATOM	294	HD22	LEU	X	18	31.724	40.965	18.469	0.00	0.00
ATOM	295	HD23	LEU	X	18	31.896	39.261	18.357	0.00	0.00
ATOM	296	C	LEU	X	18	27.930	37.088	16.967	0.00	0.00
ATOM	297	O	LEU	X	18	26.726	36.990	17.265	0.00	0.00
ATOM	298	N	LYS	X	19	28.704	36.085	16.525	0.00	0.00
ATOM	299	H	LYS	X	19	29.665	36.308	16.309	0.00	0.00
ATOM	300	CA	LYS	X	19	28.208	34.714	16.173	0.00	0.00
ATOM	301	HA	LYS	X	19	27.198	34.537	16.542	0.00	0.00
ATOM	302	CB	LYS	X	19	28.227	34.527	14.654	0.00	0.00
ATOM	303	HB2	LYS	X	19	29.285	34.603	14.403	0.00	0.00
ATOM	304	HB3	LYS	X	19	27.907	33.523	14.377	0.00	0.00
ATOM	305	CG	LYS	X	19	27.269	35.459	13.902	0.00	0.00
ATOM	306	HG2	LYS	X	19	26.253	35.086	14.038	0.00	0.00
ATOM	307	HG3	LYS	X	19	27.323	36.464	14.320	0.00	0.00
ATOM	308	CD	LYS	X	19	27.623	35.364	12.402	0.00	0.00
ATOM	309	HD2	LYS	X	19	28.639	35.723	12.237	0.00	0.00
ATOM	310	HD3	LYS	X	19	27.533	34.293	12.222	0.00	0.00
ATOM	311	CE	LYS	X	19	26.669	36.223	11.588	0.00	0.00
ATOM	312	HE2	LYS	X	19	25.684	36.266	12.052	0.00	0.00
ATOM	313	HE3	LYS	X	19	26.921	37.280	11.504	0.00	0.00
ATOM	314	NZ	LYS	X	19	26.694	35.747	10.192	0.00	0.00
ATOM	315	HZ1	LYS	X	19	26.291	36.323	9.466	0.00	0.00
ATOM	316	HZ2	LYS	X	19	27.671	35.693	9.942	0.00	0.00
ATOM	317	HZ3	LYS	X	19	26.333	34.813	10.055	0.00	0.00
ATOM	318	C	LYS	X	19	29.071	33.687	17.006	0.00	0.00
ATOM	319	O	LYS	X	19	30.307	33.697	16.953	0.00	0.00
ATOM	320	N	THR	X	20	28.374	32.716	17.677	0.00	0.00
ATOM	321	H	THR	X	20	27.368	32.794	17.720	0.00	0.00
ATOM	322	CA	THR	X	20	28.932	31.660	18.536	0.00	0.00
ATOM	323	HA	THR	X	20	29.969	31.467	18.261	0.00	0.00
ATOM	324	CB	THR	X	20	28.922	32.104	20.070	0.00	0.00
ATOM	325	HB	THR	X	20	28.540	31.281	20.674	0.00	0.00
ATOM	326	CG2	THR	X	20	30.297	32.598	20.433	0.00	0.00
ATOM	327	HG21	THR	X	20	30.174	33.096	21.396	0.00	0.00
ATOM	328	HG22	THR	X	20	30.648	33.313	19.689	0.00	0.00
ATOM	329	HG23	THR	X	20	30.905	31.700	20.539	0.00	0.00
ATOM	330	OG1	THR	X	20	28.082	33.121	20.409	0.00	0.00
ATOM	331	HG1	THR	X	20	27.250	32.879	19.994	0.00	0.00
ATOM	332	C	THR	X	20	28.235	30.308	18.396	0.00	0.00
ATOM	333	O	THR	X	20	27.033	30.321	18.063	0.00	0.00
ATOM	334	N	PRO	X	21	28.842	29.120	18.807	0.00	0.00
ATOM	335	CD	PRO	X	21	30.069	29.063	19.517	0.00	0.00
ATOM	336	HD2	PRO	X	21	29.705	29.241	20.529	0.00	0.00
ATOM	337	HD3	PRO	X	21	30.745	29.795	19.076	0.00	0.00
ATOM	338	CG	PRO	X	21	30.435	27.630	19.408	0.00	0.00
ATOM	339	HG2	PRO	X	21	30.990	27.345	20.302	0.00	0.00
ATOM	340	HG3	PRO	X	21	30.904	27.352	18.464	0.00	0.00
ATOM	341	CB	PRO	X	21	29.182	26.820	19.378	0.00	0.00
ATOM	342	HB2	PRO	X	21	28.995	26.538	20.414	0.00	0.00
ATOM	343	HB3	PRO	X	21	29.311	25.875	18.850	0.00	0.00
ATOM	344	CA	PRO	X	21	28.229	27.802	18.701	0.00	0.00
ATOM	345	HA	PRO	X	21	28.280	27.552	17.641	0.00	0.00
ATOM	346	C	PRO	X	21	26.767	27.637	19.261	0.00	0.00
ATOM	347	O	PRO	X	21	25.951	27.062	18.532	0.00	0.00
ATOM	348	N	GLY	X	22	26.472	28.227	20.456	0.00	0.00
ATOM	349	H	GLY	X	22	27.208	28.721	20.941	0.00	0.00
ATOM	350	CA	GLY	X	22	25.135	28.158	21.097	0.00	0.00
ATOM	351	HA2	GLY	X	22	24.607	27.232	20.871	0.00	0.00
ATOM	352	HA3	GLY	X	22	25.163	28.178	22.186	0.00	0.00
ATOM	353	C	GLY	X	22	24.248	29.269	20.677	0.00	0.00
ATOM	354	O	GLY	X	22	23.218	29.426	21.344	0.00	0.00
ATOM	355	N	GLY	X	23	24.552	30.037	19.652	0.00	0.00
ATOM	356	H	GLY	X	23	25.451	30.047	19.192	0.00	0.00
ATOM	357	CA	GLY	X	23	23.785	31.165	19.182	0.00	0.00
ATOM	358	HA2	GLY	X	23	23.357	30.952	18.203	0.00	0.00
ATOM	359	HA3	GLY	X	23	22.901	31.104	19.817	0.00	0.00

ATOM	360	C	GLY	X	23	24.392	32.586	19.158	0.00	0.00
ATOM	361	O	GLY	X	23	25.476	32.775	19.740	0.00	0.00
ATOM	362	N	PRO	X	24	23.762	33.549	18.465	0.00	0.00
ATOM	363	CD	PRO	X	24	22.594	33.367	17.614	0.00	0.00
ATOM	364	HD2	PRO	X	24	21.715	32.998	18.143	0.00	0.00
ATOM	365	HD3	PRO	X	24	22.789	32.681	16.790	0.00	0.00
ATOM	366	CG	PRO	X	24	22.319	34.701	16.915	0.00	0.00
ATOM	367	HG2	PRO	X	24	21.634	35.264	17.549	0.00	0.00
ATOM	368	HG3	PRO	X	24	21.903	34.637	15.909	0.00	0.00
ATOM	369	CB	PRO	X	24	23.713	35.291	16.895	0.00	0.00
ATOM	370	HB2	PRO	X	24	23.721	36.377	16.803	0.00	0.00
ATOM	371	HB3	PRO	X	24	24.356	34.863	16.126	0.00	0.00
ATOM	372	CA	PRO	X	24	24.330	34.858	18.221	0.00	0.00
ATOM	373	HA	PRO	X	24	25.400	34.676	18.118	0.00	0.00
ATOM	374	C	PRO	X	24	24.143	35.849	19.395	0.00	0.00
ATOM	375	O	PRO	X	24	23.286	35.655	20.278	0.00	0.00
ATOM	376	N	VAL	X	25	24.852	37.046	19.391	0.00	0.00
ATOM	377	H	VAL	X	25	25.481	37.200	18.616	0.00	0.00
ATOM	378	CA	VAL	X	25	24.954	38.057	20.493	0.00	0.00
ATOM	379	HA	VAL	X	25	23.974	38.017	20.970	0.00	0.00
ATOM	380	CB	VAL	X	25	26.124	37.824	21.479	0.00	0.00
ATOM	381	HB	VAL	X	25	27.099	37.731	21.001	0.00	0.00
ATOM	382	CG1	VAL	X	25	26.313	38.883	22.523	0.00	0.00
ATOM	383	HG11	VAL	X	25	27.013	39.612	22.116	0.00	0.00
ATOM	384	HG12	VAL	X	25	25.379	39.240	22.957	0.00	0.00
ATOM	385	HG13	VAL	X	25	26.786	38.525	23.437	0.00	0.00
ATOM	386	CG2	VAL	X	25	25.950	36.417	22.070	0.00	0.00
ATOM	387	HG21	VAL	X	25	26.011	35.572	21.383	0.00	0.00
ATOM	388	HG22	VAL	X	25	25.112	36.414	22.767	0.00	0.00
ATOM	389	HG23	VAL	X	25	26.814	36.269	22.717	0.00	0.00
ATOM	390	C	VAL	X	25	24.938	39.441	19.812	0.00	0.00
ATOM	391	O	VAL	X	25	25.355	39.510	18.664	0.00	0.00
ATOM	392	N	SER	X	26	24.518	40.472	20.506	0.00	0.00
ATOM	393	H	SER	X	26	24.048	40.390	21.396	0.00	0.00
ATOM	394	CA	SER	X	26	24.590	41.907	20.117	0.00	0.00
ATOM	395	HA	SER	X	26	25.212	42.045	19.232	0.00	0.00
ATOM	396	CB	SER	X	26	23.186	42.620	19.870	0.00	0.00
ATOM	397	HB2	SER	X	26	23.277	43.672	19.599	0.00	0.00
ATOM	398	HB3	SER	X	26	22.793	42.121	18.984	0.00	0.00
ATOM	399	OG	SER	X	26	22.279	42.483	20.910	0.00	0.00
ATOM	400	HG	SER	X	26	22.619	41.979	21.653	0.00	0.00
ATOM	401	C	SER	X	26	25.373	42.676	21.180	0.00	0.00
ATOM	402	O	SER	X	26	25.122	42.531	22.418	0.00	0.00
ATOM	403	N	ALA	X	27	26.505	43.259	20.764	0.00	0.00
ATOM	404	H	ALA	X	27	26.605	43.434	19.774	0.00	0.00
ATOM	405	CA	ALA	X	27	27.560	43.892	21.568	0.00	0.00
ATOM	406	HA	ALA	X	27	27.383	43.755	22.634	0.00	0.00
ATOM	407	CB	ALA	X	27	28.843	43.077	21.396	0.00	0.00
ATOM	408	HB1	ALA	X	27	29.267	43.161	20.396	0.00	0.00
ATOM	409	HB2	ALA	X	27	28.686	41.999	21.429	0.00	0.00
ATOM	410	HB3	ALA	X	27	29.504	43.391	22.204	0.00	0.00
ATOM	411	C	ALA	X	27	27.614	45.367	21.285	0.00	0.00
ATOM	412	O	ALA	X	27	27.374	45.805	20.209	0.00	0.00
ATOM	413	N	PHE	X	28	28.047	46.168	22.291	0.00	0.00
ATOM	414	H	PHE	X	28	28.077	45.808	23.234	0.00	0.00
ATOM	415	CA	PHE	X	28	28.211	47.543	22.168	0.00	0.00
ATOM	416	HA	PHE	X	28	28.484	47.748	21.133	0.00	0.00
ATOM	417	CB	PHE	X	28	26.843	48.299	22.530	0.00	0.00
ATOM	418	HB2	PHE	X	28	26.889	48.350	23.618	0.00	0.00
ATOM	419	HB3	PHE	X	28	26.913	49.335	22.196	0.00	0.00
ATOM	420	CG	PHE	X	28	25.546	47.658	21.920	0.00	0.00
ATOM	421	CD1	PHE	X	28	25.042	46.432	22.370	0.00	0.00
ATOM	422	HD1	PHE	X	28	25.535	45.957	23.205	0.00	0.00
ATOM	423	CE1	PHE	X	28	23.894	45.824	21.807	0.00	0.00
ATOM	424	HE1	PHE	X	28	23.561	44.866	22.178	0.00	0.00
ATOM	425	CZ	PHE	X	28	23.178	46.449	20.751	0.00	0.00
ATOM	426	HZ	PHE	X	28	22.300	45.968	20.347	0.00	0.00

ATOM	427	CE2	PHE	X	28	23.683	47.682	20.291	0.00	0.00
ATOM	428	HE2	PHE	X	28	23.140	48.120	19.467	0.00	0.00
ATOM	429	CD2	PHE	X	28	24.798	48.300	20.942	0.00	0.00
ATOM	430	HD2	PHE	X	28	25.149	49.217	20.492	0.00	0.00
ATOM	431	C	PHE	X	28	29.324	47.999	23.030	0.00	0.00
ATOM	432	O	PHE	X	28	29.353	47.627	24.218	0.00	0.00
ATOM	433	N	LEU	X	29	30.412	48.472	22.383	0.00	0.00
ATOM	434	H	LEU	X	29	30.396	48.778	21.421	0.00	0.00
ATOM	435	CA	LEU	X	29	31.763	48.498	22.942	0.00	0.00
ATOM	436	HA	LEU	X	29	31.814	48.067	23.942	0.00	0.00
ATOM	437	CB	LEU	X	29	32.606	47.579	22.066	0.00	0.00
ATOM	438	HB2	LEU	X	29	32.641	48.143	21.133	0.00	0.00
ATOM	439	HB3	LEU	X	29	33.577	47.502	22.556	0.00	0.00
ATOM	440	CG	LEU	X	29	32.072	46.195	21.774	0.00	0.00
ATOM	441	HG	LEU	X	29	31.106	46.306	21.280	0.00	0.00
ATOM	442	CD1	LEU	X	29	32.985	45.402	20.789	0.00	0.00
ATOM	443	HD11	LEU	X	29	32.497	44.448	20.591	0.00	0.00
ATOM	444	HD12	LEU	X	29	33.995	45.283	21.180	0.00	0.00
ATOM	445	HD13	LEU	X	29	33.207	45.937	19.865	0.00	0.00
ATOM	446	CD2	LEU	X	29	31.800	45.404	23.044	0.00	0.00
ATOM	447	HD21	LEU	X	29	32.608	45.569	23.756	0.00	0.00
ATOM	448	HD22	LEU	X	29	30.827	45.654	23.466	0.00	0.00
ATOM	449	HD23	LEU	X	29	31.760	44.337	22.824	0.00	0.00
ATOM	450	C	LEU	X	29	32.242	49.936	22.902	0.00	0.00
ATOM	451	O	LEU	X	29	31.735	50.715	22.091	0.00	0.00
ATOM	452	N	GLY	X	30	33.062	50.334	23.901	0.00	0.00
ATOM	453	H	GLY	X	30	33.326	49.715	24.654	0.00	0.00
ATOM	454	CA	GLY	X	30	33.531	51.729	24.019	0.00	0.00
ATOM	455	HA2	GLY	X	30	34.090	51.823	24.950	0.00	0.00
ATOM	456	HA3	GLY	X	30	34.216	52.003	23.217	0.00	0.00
ATOM	457	C	GLY	X	30	32.288	52.710	24.045	0.00	0.00
ATOM	458	O	GLY	X	30	32.387	53.745	23.397	0.00	0.00
ATOM	459	N	ILE	X	31	31.274	52.503	24.873	0.00	0.00
ATOM	460	H	ILE	X	31	31.328	51.651	25.413	0.00	0.00
ATOM	461	CA	ILE	X	31	30.304	53.534	25.249	0.00	0.00
ATOM	462	HA	ILE	X	31	29.824	54.133	24.476	0.00	0.00
ATOM	463	CB	ILE	X	31	29.124	52.790	25.933	0.00	0.00
ATOM	464	HB	ILE	X	31	29.433	52.130	26.743	0.00	0.00
ATOM	465	CG2	ILE	X	31	28.126	53.768	26.532	0.00	0.00
ATOM	466	HG21	ILE	X	31	27.983	54.666	25.930	0.00	0.00
ATOM	467	HG22	ILE	X	31	28.462	54.129	27.504	0.00	0.00
ATOM	468	HG23	ILE	X	31	27.084	53.450	26.577	0.00	0.00
ATOM	469	CG1	ILE	X	31	28.451	51.786	24.994	0.00	0.00
ATOM	470	HG12	ILE	X	31	27.814	52.286	24.264	0.00	0.00
ATOM	471	HG13	ILE	X	31	29.266	51.323	24.438	0.00	0.00
ATOM	472	CD1	ILE	X	31	27.642	50.701	25.708	0.00	0.00
ATOM	473	HD11	ILE	X	31	28.195	50.070	26.404	0.00	0.00
ATOM	474	HD12	ILE	X	31	27.090	50.022	25.058	0.00	0.00
ATOM	475	HD13	ILE	X	31	26.860	51.263	26.219	0.00	0.00
ATOM	476	C	ILE	X	31	30.944	54.661	26.087	0.00	0.00
ATOM	477	O	ILE	X	31	31.665	54.281	27.079	0.00	0.00
ATOM	478	N	PRO	X	32	30.778	55.982	25.917	0.00	0.00
ATOM	479	CD	PRO	X	32	30.305	56.619	24.707	0.00	0.00
ATOM	480	HD2	PRO	X	32	29.233	56.591	24.509	0.00	0.00
ATOM	481	HD3	PRO	X	32	30.837	56.327	23.801	0.00	0.00
ATOM	482	CG	PRO	X	32	30.556	58.118	24.887	0.00	0.00
ATOM	483	HG2	PRO	X	32	29.640	58.709	24.911	0.00	0.00
ATOM	484	HG3	PRO	X	32	31.195	58.437	24.064	0.00	0.00
ATOM	485	CB	PRO	X	32	31.344	58.356	26.206	0.00	0.00
ATOM	486	HB2	PRO	X	32	30.809	59.107	26.788	0.00	0.00
ATOM	487	HB3	PRO	X	32	32.389	58.601	26.017	0.00	0.00
ATOM	488	CA	PRO	X	32	31.156	57.041	26.875	0.00	0.00
ATOM	489	HA	PRO	X	32	32.027	56.707	27.439	0.00	0.00
ATOM	490	C	PRO	X	32	30.043	57.047	27.900	0.00	0.00
ATOM	491	O	PRO	X	32	28.893	56.747	27.556	0.00	0.00
ATOM	492	N	PHE	X	33	30.384	57.462	29.114	0.00	0.00
ATOM	493	H	PHE	X	33	31.362	57.425	29.366	0.00	0.00

ATOM	494	CA	PHE	X	33	29.498	57.551	30.262	0.00	0.00
ATOM	495	HA	PHE	X	33	28.454	57.719	29.998	0.00	0.00
ATOM	496	CB	PHE	X	33	29.503	56.248	30.957	0.00	0.00
ATOM	497	HB2	PHE	X	33	28.606	56.230	31.576	0.00	0.00
ATOM	498	HB3	PHE	X	33	29.265	55.555	30.150	0.00	0.00
ATOM	499	CG	PHE	X	33	30.648	55.892	31.829	0.00	0.00
ATOM	500	CD1	PHE	X	33	30.802	56.411	33.169	0.00	0.00
ATOM	501	HD1	PHE	X	33	29.949	56.834	33.679	0.00	0.00
ATOM	502	CE1	PHE	X	33	31.872	55.944	34.015	0.00	0.00
ATOM	503	HE1	PHE	X	33	31.946	56.187	35.064	0.00	0.00
ATOM	504	CZ	PHE	X	33	32.775	55.019	33.488	0.00	0.00
ATOM	505	HZ	PHE	X	33	33.493	54.536	34.135	0.00	0.00
ATOM	506	CE2	PHE	X	33	32.696	54.660	32.171	0.00	0.00
ATOM	507	HE2	PHE	X	33	33.475	54.054	31.734	0.00	0.00
ATOM	508	CD2	PHE	X	33	31.696	55.148	31.344	0.00	0.00
ATOM	509	HD2	PHE	X	33	31.769	54.844	30.310	0.00	0.00
ATOM	510	C	PHE	X	33	30.010	58.782	31.159	0.00	0.00
ATOM	511	O	PHE	X	33	29.180	59.233	31.921	0.00	0.00
ATOM	512	N	ALA	X	34	31.287	59.233	31.111	0.00	0.00
ATOM	513	H	ALA	X	34	31.921	58.802	30.454	0.00	0.00
ATOM	514	CA	ALA	X	34	31.795	60.438	31.751	0.00	0.00
ATOM	515	HA	ALA	X	34	31.021	60.979	32.295	0.00	0.00
ATOM	516	CB	ALA	X	34	32.979	59.879	32.615	0.00	0.00
ATOM	517	HB1	ALA	X	34	33.363	60.606	33.331	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.769	59.571	31.929	0.00	0.00
ATOM	519	HB3	ALA	X	34	32.704	58.983	33.171	0.00	0.00
ATOM	520	C	ALA	X	34	32.325	61.627	30.864	0.00	0.00
ATOM	521	O	ALA	X	34	32.835	61.413	29.755	0.00	0.00
ATOM	522	N	GLU	X	35	32.168	62.897	31.342	0.00	0.00
ATOM	523	H	GLU	X	35	31.789	62.918	32.278	0.00	0.00
ATOM	524	CA	GLU	X	35	32.964	64.056	30.822	0.00	0.00
ATOM	525	HA	GLU	X	35	32.714	64.167	29.767	0.00	0.00
ATOM	526	CB	GLU	X	35	32.663	65.363	31.562	0.00	0.00
ATOM	527	HB2	GLU	X	35	32.653	65.222	32.642	0.00	0.00
ATOM	528	HB3	GLU	X	35	33.428	66.124	31.407	0.00	0.00
ATOM	529	CG	GLU	X	35	31.223	65.964	31.334	0.00	0.00
ATOM	530	HG2	GLU	X	35	30.401	65.421	31.800	0.00	0.00
ATOM	531	HG3	GLU	X	35	31.169	66.849	31.968	0.00	0.00
ATOM	532	CD	GLU	X	35	30.951	66.187	29.866	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.498	65.188	29.165	0.00	0.00
ATOM	534	OE2	GLU	X	35	31.086	67.312	29.360	0.00	0.00
ATOM	535	C	GLU	X	35	34.492	63.873	30.934	0.00	0.00
ATOM	536	O	GLU	X	35	34.993	63.375	31.953	0.00	0.00
ATOM	537	N	PRO	X	36	35.261	64.504	30.057	0.00	0.00
ATOM	538	CD	PRO	X	36	34.791	65.342	28.938	0.00	0.00
ATOM	539	HD2	PRO	X	36	34.134	66.158	29.236	0.00	0.00
ATOM	540	HD3	PRO	X	36	34.278	64.789	28.152	0.00	0.00
ATOM	541	CG	PRO	X	36	36.024	66.042	28.421	0.00	0.00
ATOM	542	HG2	PRO	X	36	35.919	67.125	28.474	0.00	0.00
ATOM	543	HG3	PRO	X	36	35.995	65.699	27.387	0.00	0.00
ATOM	544	CB	PRO	X	36	37.273	65.593	29.221	0.00	0.00
ATOM	545	HB2	PRO	X	36	37.566	66.426	29.860	0.00	0.00
ATOM	546	HB3	PRO	X	36	38.146	65.405	28.596	0.00	0.00
ATOM	547	CA	PRO	X	36	36.769	64.424	29.973	0.00	0.00
ATOM	548	HA	PRO	X	36	36.883	63.500	29.405	0.00	0.00
ATOM	549	C	PRO	X	36	37.615	64.205	31.231	0.00	0.00
ATOM	550	O	PRO	X	36	37.867	65.223	31.928	0.00	0.00
ATOM	551	N	PRO	X	37	37.925	62.959	31.642	0.00	0.00
ATOM	552	CD	PRO	X	37	37.685	61.760	30.889	0.00	0.00
ATOM	553	HD2	PRO	X	37	38.037	61.945	29.874	0.00	0.00
ATOM	554	HD3	PRO	X	37	36.609	61.671	31.037	0.00	0.00
ATOM	555	CG	PRO	X	37	38.446	60.594	31.574	0.00	0.00
ATOM	556	HG2	PRO	X	37	39.520	60.567	31.389	0.00	0.00
ATOM	557	HG3	PRO	X	37	38.008	59.603	31.455	0.00	0.00
ATOM	558	CB	PRO	X	37	38.192	61.058	33.041	0.00	0.00
ATOM	559	HB2	PRO	X	37	38.941	60.514	33.616	0.00	0.00
ATOM	560	HB3	PRO	X	37	37.148	60.887	33.305	0.00	0.00

ATOM	561	CA	PRO	X	37	38.418	62.634	32.961	0.00	0.00
ATOM	562	HA	PRO	X	37	37.785	63.180	33.662	0.00	0.00
ATOM	563	C	PRO	X	37	39.858	62.950	33.154	0.00	0.00
ATOM	564	O	PRO	X	37	40.384	62.759	34.252	0.00	0.00
ATOM	565	N	MET	X	38	40.572	63.388	32.098	0.00	0.00
ATOM	566	H	MET	X	38	40.083	63.517	31.224	0.00	0.00
ATOM	567	CA	MET	X	38	41.933	63.810	32.000	0.00	0.00
ATOM	568	HA	MET	X	38	42.629	63.166	32.537	0.00	0.00
ATOM	569	CB	MET	X	38	42.294	63.628	30.511	0.00	0.00
ATOM	570	HB2	MET	X	38	43.329	63.871	30.273	0.00	0.00
ATOM	571	HB3	MET	X	38	42.111	62.589	30.237	0.00	0.00
ATOM	572	CG	MET	X	38	41.572	64.600	29.561	0.00	0.00
ATOM	573	HG2	MET	X	38	40.520	64.327	29.479	0.00	0.00
ATOM	574	HG3	MET	X	38	41.668	65.628	29.910	0.00	0.00
ATOM	575	SD	MET	X	38	42.272	64.489	27.854	0.00	0.00
ATOM	576	CE	MET	X	38	43.810	65.493	27.988	0.00	0.00
ATOM	577	HE1	MET	X	38	44.543	64.966	28.599	0.00	0.00
ATOM	578	HE2	MET	X	38	44.155	65.772	26.993	0.00	0.00
ATOM	579	HE3	MET	X	38	43.582	66.378	28.582	0.00	0.00
ATOM	580	C	MET	X	38	42.189	65.188	32.561	0.00	0.00
ATOM	581	O	MET	X	38	41.375	66.158	32.515	0.00	0.00
ATOM	582	N	GLY	X	39	43.393	65.357	33.067	0.00	0.00
ATOM	583	H	GLY	X	39	43.924	64.504	33.165	0.00	0.00
ATOM	584	CA	GLY	X	39	44.132	66.639	33.220	0.00	0.00
ATOM	585	HA2	GLY	X	39	45.205	66.478	33.323	0.00	0.00
ATOM	586	HA3	GLY	X	39	44.008	67.381	32.431	0.00	0.00
ATOM	587	C	GLY	X	39	43.660	67.434	34.456	0.00	0.00
ATOM	588	O	GLY	X	39	44.036	66.998	35.519	0.00	0.00
ATOM	589	N	PRO	X	40	42.905	68.551	34.337	0.00	0.00
ATOM	590	CD	PRO	X	40	42.702	69.265	33.183	0.00	0.00
ATOM	591	HD2	PRO	X	40	41.966	68.804	32.524	0.00	0.00
ATOM	592	HD3	PRO	X	40	43.570	69.588	32.608	0.00	0.00
ATOM	593	CG	PRO	X	40	42.103	70.567	33.675	0.00	0.00
ATOM	594	HG2	PRO	X	40	41.494	70.979	32.870	0.00	0.00
ATOM	595	HG3	PRO	X	40	42.840	71.276	34.052	0.00	0.00
ATOM	596	CB	PRO	X	40	41.246	70.040	34.769	0.00	0.00
ATOM	597	HB2	PRO	X	40	40.366	69.486	34.442	0.00	0.00
ATOM	598	HB3	PRO	X	40	40.860	70.887	35.337	0.00	0.00
ATOM	599	CA	PRO	X	40	42.143	69.008	35.494	0.00	0.00
ATOM	600	HA	PRO	X	40	42.826	69.520	36.172	0.00	0.00
ATOM	601	C	PRO	X	40	41.338	67.953	36.318	0.00	0.00
ATOM	602	O	PRO	X	40	41.450	67.983	37.477	0.00	0.00
ATOM	603	N	ARG	X	41	40.671	67.016	35.637	0.00	0.00
ATOM	604	H	ARG	X	41	40.694	67.016	34.627	0.00	0.00
ATOM	605	CA	ARG	X	41	40.063	65.858	36.307	0.00	0.00
ATOM	606	HA	ARG	X	41	39.639	66.244	37.234	0.00	0.00
ATOM	607	CB	ARG	X	41	38.849	65.276	35.528	0.00	0.00
ATOM	608	HB2	ARG	X	41	39.177	65.134	34.498	0.00	0.00
ATOM	609	HB3	ARG	X	41	38.506	64.325	35.936	0.00	0.00
ATOM	610	CG	ARG	X	41	37.675	66.310	35.401	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.373	66.609	36.405	0.00	0.00
ATOM	612	HG3	ARG	X	41	37.961	67.116	34.725	0.00	0.00
ATOM	613	CD	ARG	X	41	36.305	65.723	34.865	0.00	0.00
ATOM	614	HD2	ARG	X	41	36.594	65.101	34.018	0.00	0.00
ATOM	615	HD3	ARG	X	41	35.856	65.022	35.569	0.00	0.00
ATOM	616	NE	ARG	X	41	35.349	66.805	34.531	0.00	0.00
ATOM	617	HE	ARG	X	41	34.802	67.149	35.307	0.00	0.00
ATOM	618	CZ	ARG	X	41	35.442	67.574	33.488	0.00	0.00
ATOM	619	NH1	ARG	X	41	36.328	67.487	32.552	0.00	0.00
ATOM	620	HH11	ARG	X	41	37.037	66.780	32.683	0.00	0.00
ATOM	621	HH12	ARG	X	41	36.387	68.203	31.842	0.00	0.00
ATOM	622	NH2	ARG	X	41	34.567	68.541	33.318	0.00	0.00
ATOM	623	HH21	ARG	X	41	33.847	68.677	34.014	0.00	0.00
ATOM	624	HH22	ARG	X	41	34.387	68.959	32.416	0.00	0.00
ATOM	625	C	ARG	X	41	40.940	64.764	36.864	0.00	0.00
ATOM	626	O	ARG	X	41	40.387	63.894	37.563	0.00	0.00
ATOM	627	N	ARG	X	42	42.257	64.766	36.678	0.00	0.00

ATOM	628	H	ARG	X	42	42.657	65.626	36.330	0.00	0.00
ATOM	629	CA	ARG	X	42	43.187	63.731	37.168	0.00	0.00
ATOM	630	HA	ARG	X	42	42.723	62.779	36.910	0.00	0.00
ATOM	631	CB	ARG	X	42	44.581	63.949	36.607	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.423	64.080	35.537	0.00	0.00
ATOM	633	HB3	ARG	X	42	44.987	64.826	37.110	0.00	0.00
ATOM	634	CG	ARG	X	42	45.517	62.807	36.910	0.00	0.00
ATOM	635	HG2	ARG	X	42	45.499	62.678	37.993	0.00	0.00
ATOM	636	HG3	ARG	X	42	45.148	61.935	36.371	0.00	0.00
ATOM	637	CD	ARG	X	42	46.911	63.284	36.543	0.00	0.00
ATOM	638	HD2	ARG	X	42	47.137	64.124	37.198	0.00	0.00
ATOM	639	HD3	ARG	X	42	47.577	62.435	36.702	0.00	0.00
ATOM	640	NE	ARG	X	42	46.997	63.748	35.141	0.00	0.00
ATOM	641	HE	ARG	X	42	46.239	63.456	34.541	0.00	0.00
ATOM	642	CZ	ARG	X	42	48.031	64.250	34.499	0.00	0.00
ATOM	643	NH1	ARG	X	42	49.155	64.380	35.107	0.00	0.00
ATOM	644	HH11	ARG	X	42	49.364	64.287	36.091	0.00	0.00
ATOM	645	HH12	ARG	X	42	49.859	64.722	34.468	0.00	0.00
ATOM	646	NH2	ARG	X	42	47.947	64.445	33.218	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.140	64.086	32.727	0.00	0.00
ATOM	648	HH22	ARG	X	42	48.794	64.504	32.672	0.00	0.00
ATOM	649	C	ARG	X	42	43.234	63.770	38.692	0.00	0.00
ATOM	650	O	ARG	X	42	43.218	64.911	39.252	0.00	0.00
ATOM	651	N	PHE	X	43	43.118	62.622	39.298	0.00	0.00
ATOM	652	H	PHE	X	43	43.006	61.786	38.743	0.00	0.00
ATOM	653	CA	PHE	X	43	43.060	62.496	40.809	0.00	0.00
ATOM	654	HA	PHE	X	43	43.179	61.445	41.073	0.00	0.00
ATOM	655	CB	PHE	X	43	44.175	63.248	41.542	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.841	64.280	41.647	0.00	0.00
ATOM	657	HB3	PHE	X	43	44.147	62.844	42.554	0.00	0.00
ATOM	658	CG	PHE	X	43	45.601	63.184	41.074	0.00	0.00
ATOM	659	CD1	PHE	X	43	46.182	61.941	40.716	0.00	0.00
ATOM	660	HD1	PHE	X	43	45.556	61.069	40.591	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.490	61.882	40.295	0.00	0.00
ATOM	662	HE1	PHE	X	43	47.825	60.905	39.982	0.00	0.00
ATOM	663	CZ	PHE	X	43	48.225	63.029	40.171	0.00	0.00
ATOM	664	HZ	PHE	X	43	49.210	62.907	39.745	0.00	0.00
ATOM	665	CE2	PHE	X	43	47.666	64.326	40.514	0.00	0.00
ATOM	666	HE2	PHE	X	43	48.269	65.220	40.574	0.00	0.00
ATOM	667	CD2	PHE	X	43	46.342	64.367	41.043	0.00	0.00
ATOM	668	HD2	PHE	X	43	45.964	65.337	41.333	0.00	0.00
ATOM	669	C	PHE	X	43	41.655	62.951	41.436	0.00	0.00
ATOM	670	O	PHE	X	43	41.357	62.800	42.595	0.00	0.00
ATOM	671	N	LEU	X	44	40.824	63.464	40.502	0.00	0.00
ATOM	672	H	LEU	X	44	41.130	63.377	39.544	0.00	0.00
ATOM	673	CA	LEU	X	44	39.527	64.055	40.855	0.00	0.00
ATOM	674	HA	LEU	X	44	39.380	63.896	41.924	0.00	0.00
ATOM	675	CB	LEU	X	44	39.461	65.572	40.496	0.00	0.00
ATOM	676	HB2	LEU	X	44	39.947	65.707	39.530	0.00	0.00
ATOM	677	HB3	LEU	X	44	38.469	65.994	40.336	0.00	0.00
ATOM	678	CG	LEU	X	44	40.341	66.461	41.357	0.00	0.00
ATOM	679	HG	LEU	X	44	41.333	66.020	41.453	0.00	0.00
ATOM	680	CD1	LEU	X	44	40.475	67.917	40.744	0.00	0.00
ATOM	681	HD11	LEU	X	44	41.287	68.441	41.248	0.00	0.00
ATOM	682	HD12	LEU	X	44	39.524	68.440	40.849	0.00	0.00
ATOM	683	HD13	LEU	X	44	40.810	67.930	39.707	0.00	0.00
ATOM	684	CD2	LEU	X	44	39.783	66.694	42.786	0.00	0.00
ATOM	685	HD21	LEU	X	44	40.451	67.422	43.245	0.00	0.00
ATOM	686	HD22	LEU	X	44	38.841	67.209	42.600	0.00	0.00
ATOM	687	HD23	LEU	X	44	39.670	65.798	43.397	0.00	0.00
ATOM	688	C	LEU	X	44	38.331	63.339	40.323	0.00	0.00
ATOM	689	O	LEU	X	44	38.430	62.632	39.379	0.00	0.00
ATOM	690	N	PRO	X	45	37.115	63.400	40.890	0.00	0.00
ATOM	691	CD	PRO	X	45	36.794	64.230	42.051	0.00	0.00
ATOM	692	HD2	PRO	X	45	36.727	65.238	41.642	0.00	0.00
ATOM	693	HD3	PRO	X	45	37.463	64.121	42.904	0.00	0.00
ATOM	694	CG	PRO	X	45	35.316	63.855	42.444	0.00	0.00

ATOM	695	HG2	PRO	X	45	34.796	64.701	42.892	0.00	0.00
ATOM	696	HG3	PRO	X	45	35.351	63.104	43.234	0.00	0.00
ATOM	697	CB	PRO	X	45	34.722	63.262	41.173	0.00	0.00
ATOM	698	HB2	PRO	X	45	34.254	64.068	40.608	0.00	0.00
ATOM	699	HB3	PRO	X	45	34.036	62.473	41.481	0.00	0.00
ATOM	700	CA	PRO	X	45	35.895	62.660	40.375	0.00	0.00
ATOM	701	HA	PRO	X	45	36.078	61.649	40.739	0.00	0.00
ATOM	702	C	PRO	X	45	35.694	62.823	38.877	0.00	0.00
ATOM	703	O	PRO	X	45	35.964	63.978	38.470	0.00	0.00
ATOM	704	N	PRO	X	46	35.240	61.774	38.131	0.00	0.00
ATOM	705	CD	PRO	X	46	34.897	60.458	38.731	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.249	60.535	39.605	0.00	0.00
ATOM	707	HD3	PRO	X	46	35.802	59.994	39.123	0.00	0.00
ATOM	708	CG	PRO	X	46	34.100	59.627	37.725	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.039	59.671	37.971	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.517	58.654	37.464	0.00	0.00
ATOM	711	CB	PRO	X	46	34.430	60.427	36.443	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.702	60.306	35.641	0.00	0.00
ATOM	713	HB3	PRO	X	46	35.394	60.118	36.039	0.00	0.00
ATOM	714	CA	PRO	X	46	34.556	61.910	36.907	0.00	0.00
ATOM	715	HA	PRO	X	46	35.141	62.427	36.146	0.00	0.00
ATOM	716	C	PRO	X	46	33.223	62.630	37.171	0.00	0.00
ATOM	717	O	PRO	X	46	32.757	62.786	38.280	0.00	0.00
ATOM	718	N	GLU	X	47	32.531	63.066	36.150	0.00	0.00
ATOM	719	H	GLU	X	47	32.882	62.848	35.228	0.00	0.00
ATOM	720	CA	GLU	X	47	31.151	63.525	36.208	0.00	0.00
ATOM	721	HA	GLU	X	47	30.684	63.010	37.047	0.00	0.00
ATOM	722	CB	GLU	X	47	31.170	65.008	36.616	0.00	0.00
ATOM	723	HB2	GLU	X	47	30.127	65.282	36.776	0.00	0.00
ATOM	724	HB3	GLU	X	47	31.660	65.011	37.589	0.00	0.00
ATOM	725	CG	GLU	X	47	31.852	65.900	35.562	0.00	0.00
ATOM	726	HG2	GLU	X	47	32.831	65.486	35.321	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.270	65.832	34.643	0.00	0.00
ATOM	728	CD	GLU	X	47	31.877	67.355	35.863	0.00	0.00
ATOM	729	OE1	GLU	X	47	31.049	67.888	36.617	0.00	0.00
ATOM	730	OE2	GLU	X	47	32.775	68.117	35.322	0.00	0.00
ATOM	731	C	GLU	X	47	30.394	63.158	34.959	0.00	0.00
ATOM	732	O	GLU	X	47	31.088	62.982	33.941	0.00	0.00
ATOM	733	N	PRO	X	48	29.060	63.014	34.959	0.00	0.00
ATOM	734	CD	PRO	X	48	28.144	63.196	36.117	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.254	64.235	36.427	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.332	62.412	36.850	0.00	0.00
ATOM	737	CG	PRO	X	48	26.742	63.109	35.576	0.00	0.00
ATOM	738	HG2	PRO	X	48	26.456	64.088	35.193	0.00	0.00
ATOM	739	HG3	PRO	X	48	26.134	62.640	36.351	0.00	0.00
ATOM	740	CB	PRO	X	48	27.036	62.084	34.477	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.349	62.240	33.646	0.00	0.00
ATOM	742	HB3	PRO	X	48	27.004	61.078	34.896	0.00	0.00
ATOM	743	CA	PRO	X	48	28.434	62.328	33.909	0.00	0.00
ATOM	744	HA	PRO	X	48	28.939	61.362	33.897	0.00	0.00
ATOM	745	C	PRO	X	48	28.518	63.005	32.534	0.00	0.00
ATOM	746	O	PRO	X	48	28.459	64.225	32.481	0.00	0.00
ATOM	747	N	LYS	X	49	28.558	62.186	31.531	0.00	0.00
ATOM	748	H	LYS	X	49	28.523	61.184	31.653	0.00	0.00
ATOM	749	CA	LYS	X	49	28.575	62.554	30.066	0.00	0.00
ATOM	750	HA	LYS	X	49	29.572	62.957	29.883	0.00	0.00
ATOM	751	CB	LYS	X	49	28.335	61.232	29.196	0.00	0.00
ATOM	752	HB2	LYS	X	49	29.146	60.545	29.437	0.00	0.00
ATOM	753	HB3	LYS	X	49	27.456	60.771	29.645	0.00	0.00
ATOM	754	CG	LYS	X	49	28.224	61.413	27.668	0.00	0.00
ATOM	755	HG2	LYS	X	49	28.047	60.430	27.232	0.00	0.00
ATOM	756	HG3	LYS	X	49	27.279	61.955	27.638	0.00	0.00
ATOM	757	CD	LYS	X	49	29.338	62.176	26.977	0.00	0.00
ATOM	758	HD2	LYS	X	49	29.423	63.165	27.428	0.00	0.00
ATOM	759	HD3	LYS	X	49	30.234	61.560	27.054	0.00	0.00
ATOM	760	CE	LYS	X	49	28.936	62.285	25.472	0.00	0.00
ATOM	761	HE2	LYS	X	49	28.709	61.305	25.053	0.00	0.00

ATOM	762	HE3	LYS	X	49	28.075	62.953	25.454	0.00	0.00
ATOM	763	NZ	LYS	X	49	30.114	62.811	24.758	0.00	0.00
ATOM	764	HZ1	LYS	X	49	30.727	62.046	24.517	0.00	0.00
ATOM	765	HZ2	LYS	X	49	29.900	63.274	23.886	0.00	0.00
ATOM	766	HZ3	LYS	X	49	30.636	63.428	25.364	0.00	0.00
ATOM	767	C	LYS	X	49	27.480	63.591	29.782	0.00	0.00
ATOM	768	O	LYS	X	49	26.318	63.374	30.086	0.00	0.00
ATOM	769	N	GLN	X	50	27.764	64.766	29.173	0.00	0.00
ATOM	770	H	GLN	X	50	28.740	64.996	29.051	0.00	0.00
ATOM	771	CA	GLN	X	50	26.813	65.716	28.511	0.00	0.00
ATOM	772	HA	GLN	X	50	26.045	65.953	29.247	0.00	0.00
ATOM	773	CB	GLN	X	50	27.475	67.036	28.082	0.00	0.00
ATOM	774	HB2	GLN	X	50	28.456	66.687	27.760	0.00	0.00
ATOM	775	HB3	GLN	X	50	26.875	67.581	27.353	0.00	0.00
ATOM	776	CG	GLN	X	50	27.698	68.002	29.246	0.00	0.00
ATOM	777	HG2	GLN	X	50	26.722	68.173	29.699	0.00	0.00
ATOM	778	HG3	GLN	X	50	28.464	67.616	29.919	0.00	0.00
ATOM	779	CD	GLN	X	50	28.038	69.421	28.699	0.00	0.00
ATOM	780	OE1	GLN	X	50	27.269	70.318	28.372	0.00	0.00
ATOM	781	NE2	GLN	X	50	29.360	69.641	28.533	0.00	0.00
ATOM	782	HE21	GLN	X	50	29.657	70.550	28.206	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.072	68.970	28.783	0.00	0.00
ATOM	784	C	GLN	X	50	25.999	65.101	27.420	0.00	0.00
ATOM	785	O	GLN	X	50	26.557	64.226	26.783	0.00	0.00
ATOM	786	N	PRO	X	51	24.806	65.626	26.990	0.00	0.00
ATOM	787	CD	PRO	X	51	24.029	66.752	27.539	0.00	0.00
ATOM	788	HD2	PRO	X	51	24.502	67.732	27.600	0.00	0.00
ATOM	789	HD3	PRO	X	51	23.717	66.438	28.535	0.00	0.00
ATOM	790	CG	PRO	X	51	22.661	66.866	26.790	0.00	0.00
ATOM	791	HG2	PRO	X	51	22.739	67.694	26.085	0.00	0.00
ATOM	792	HG3	PRO	X	51	21.848	67.015	27.501	0.00	0.00
ATOM	793	CB	PRO	X	51	22.591	65.587	25.948	0.00	0.00
ATOM	794	HB2	PRO	X	51	22.087	65.748	24.996	0.00	0.00
ATOM	795	HB3	PRO	X	51	22.137	64.728	26.443	0.00	0.00
ATOM	796	CA	PRO	X	51	24.057	65.093	25.783	0.00	0.00
ATOM	797	HA	PRO	X	51	23.961	64.007	25.813	0.00	0.00
ATOM	798	C	PRO	X	51	24.726	65.543	24.507	0.00	0.00
ATOM	799	O	PRO	X	51	25.758	66.288	24.594	0.00	0.00
ATOM	800	N	TRP	X	52	24.292	65.071	23.327	0.00	0.00
ATOM	801	H	TRP	X	52	23.438	64.536	23.269	0.00	0.00
ATOM	802	CA	TRP	X	52	24.871	65.374	22.010	0.00	0.00
ATOM	803	HA	TRP	X	52	25.314	66.369	21.956	0.00	0.00
ATOM	804	CB	TRP	X	52	26.025	64.338	21.734	0.00	0.00
ATOM	805	HB2	TRP	X	52	26.548	64.560	20.804	0.00	0.00
ATOM	806	HB3	TRP	X	52	26.762	64.518	22.517	0.00	0.00
ATOM	807	CG	TRP	X	52	25.507	62.901	21.679	0.00	0.00
ATOM	808	CD1	TRP	X	52	25.173	62.271	20.562	0.00	0.00
ATOM	809	HD1	TRP	X	52	25.154	62.618	19.539	0.00	0.00
ATOM	810	NE1	TRP	X	52	24.891	60.902	20.800	0.00	0.00
ATOM	811	HE1	TRP	X	52	24.492	60.229	20.161	0.00	0.00
ATOM	812	CE2	TRP	X	52	24.993	60.662	22.215	0.00	0.00
ATOM	813	CZ2	TRP	X	52	24.938	59.488	22.881	0.00	0.00
ATOM	814	HZ2	TRP	X	52	24.549	58.589	22.424	0.00	0.00
ATOM	815	CH2	TRP	X	52	25.038	59.603	24.294	0.00	0.00
ATOM	816	HH2	TRP	X	52	25.031	58.697	24.881	0.00	0.00
ATOM	817	CZ3	TRP	X	52	25.470	60.749	24.934	0.00	0.00
ATOM	818	HZ3	TRP	X	52	25.697	60.691	25.989	0.00	0.00
ATOM	819	CE3	TRP	X	52	25.585	61.968	24.176	0.00	0.00
ATOM	820	HE3	TRP	X	52	25.967	62.898	24.569	0.00	0.00
ATOM	821	CD2	TRP	X	52	25.350	61.880	22.766	0.00	0.00
ATOM	822	C	TRP	X	52	23.812	65.341	20.974	0.00	0.00
ATOM	823	O	TRP	X	52	22.799	64.692	21.205	0.00	0.00
ATOM	824	N	SER	X	53	24.095	66.004	19.855	0.00	0.00
ATOM	825	H	SER	X	53	24.944	66.547	19.777	0.00	0.00
ATOM	826	CA	SER	X	53	23.359	65.709	18.594	0.00	0.00
ATOM	827	HA	SER	X	53	22.334	65.387	18.777	0.00	0.00
ATOM	828	CB	SER	X	53	23.219	66.950	17.663	0.00	0.00

ATOM	829	HB2	SER	X	53	24.148	67.259	17.184	0.00	0.00
ATOM	830	HB3	SER	X	53	22.522	66.575	16.914	0.00	0.00
ATOM	831	OG	SER	X	53	22.682	68.037	18.346	0.00	0.00
ATOM	832	HG	SER	X	53	21.836	67.700	18.649	0.00	0.00
ATOM	833	C	SER	X	53	24.094	64.616	17.762	0.00	0.00
ATOM	834	O	SER	X	53	25.278	64.396	17.837	0.00	0.00
ATOM	835	N	GLY	X	54	23.332	63.794	16.981	0.00	0.00
ATOM	836	H	GLY	X	54	22.344	63.960	16.851	0.00	0.00
ATOM	837	CA	GLY	X	54	23.883	62.746	16.115	0.00	0.00
ATOM	838	HA2	GLY	X	54	23.376	62.783	15.150	0.00	0.00
ATOM	839	HA3	GLY	X	54	24.944	62.965	15.993	0.00	0.00
ATOM	840	C	GLY	X	54	23.888	61.350	16.728	0.00	0.00
ATOM	841	O	GLY	X	54	23.958	61.123	17.940	0.00	0.00
ATOM	842	N	VAL	X	55	23.864	60.352	15.900	0.00	0.00
ATOM	843	H	VAL	X	55	23.766	60.473	14.902	0.00	0.00
ATOM	844	CA	VAL	X	55	24.175	58.947	16.222	0.00	0.00
ATOM	845	HA	VAL	X	55	23.687	58.766	17.180	0.00	0.00
ATOM	846	CB	VAL	X	55	23.634	57.911	15.200	0.00	0.00
ATOM	847	HB	VAL	X	55	24.003	58.130	14.198	0.00	0.00
ATOM	848	CG1	VAL	X	55	24.069	56.481	15.554	0.00	0.00
ATOM	849	HG11	VAL	X	55	25.148	56.367	15.659	0.00	0.00
ATOM	850	HG12	VAL	X	55	23.577	56.239	16.495	0.00	0.00
ATOM	851	HG13	VAL	X	55	23.774	55.843	14.721	0.00	0.00
ATOM	852	CG2	VAL	X	55	22.150	57.892	14.960	0.00	0.00
ATOM	853	HG21	VAL	X	55	21.952	57.215	14.129	0.00	0.00
ATOM	854	HG22	VAL	X	55	21.819	58.866	14.599	0.00	0.00
ATOM	855	HG23	VAL	X	55	21.650	57.509	15.849	0.00	0.00
ATOM	856	C	VAL	X	55	25.678	58.881	16.519	0.00	0.00
ATOM	857	O	VAL	X	55	26.522	59.365	15.721	0.00	0.00
ATOM	858	N	VAL	X	56	25.976	58.223	17.715	0.00	0.00
ATOM	859	H	VAL	X	56	25.241	57.924	18.340	0.00	0.00
ATOM	860	CA	VAL	X	56	27.361	58.073	18.167	0.00	0.00
ATOM	861	HA	VAL	X	56	27.944	58.598	17.410	0.00	0.00
ATOM	862	CB	VAL	X	56	27.563	58.769	19.530	0.00	0.00
ATOM	863	HB	VAL	X	56	26.674	58.510	20.105	0.00	0.00
ATOM	864	CG1	VAL	X	56	28.840	58.545	20.418	0.00	0.00
ATOM	865	HG11	VAL	X	56	28.901	57.497	20.710	0.00	0.00
ATOM	866	HG12	VAL	X	56	29.682	58.984	19.884	0.00	0.00
ATOM	867	HG13	VAL	X	56	28.761	59.123	21.339	0.00	0.00
ATOM	868	CG2	VAL	X	56	27.571	60.299	19.241	0.00	0.00
ATOM	869	HG21	VAL	X	56	26.679	60.468	18.637	0.00	0.00
ATOM	870	HG22	VAL	X	56	28.471	60.569	18.690	0.00	0.00
ATOM	871	HG23	VAL	X	56	27.515	60.891	20.154	0.00	0.00
ATOM	872	C	VAL	X	56	27.808	56.623	18.234	0.00	0.00
ATOM	873	O	VAL	X	56	27.051	55.643	18.438	0.00	0.00
ATOM	874	N	ASP	X	57	29.088	56.381	18.017	0.00	0.00
ATOM	875	H	ASP	X	57	29.729	57.159	17.951	0.00	0.00
ATOM	876	CA	ASP	X	57	29.767	55.107	17.969	0.00	0.00
ATOM	877	HA	ASP	X	57	29.121	54.511	17.325	0.00	0.00
ATOM	878	CB	ASP	X	57	31.228	55.217	17.458	0.00	0.00
ATOM	879	HB2	ASP	X	57	31.274	55.935	16.639	0.00	0.00
ATOM	880	HB3	ASP	X	57	31.934	55.500	18.238	0.00	0.00
ATOM	881	CG	ASP	X	57	31.843	54.018	16.800	0.00	0.00
ATOM	882	OD1	ASP	X	57	33.068	54.105	16.620	0.00	0.00
ATOM	883	OD2	ASP	X	57	31.144	53.119	16.294	0.00	0.00
ATOM	884	C	ASP	X	57	29.766	54.341	19.283	0.00	0.00
ATOM	885	O	ASP	X	57	30.255	54.791	20.322	0.00	0.00
ATOM	886	N	ALA	X	58	29.417	53.054	19.131	0.00	0.00
ATOM	887	H	ALA	X	58	28.984	52.794	18.256	0.00	0.00
ATOM	888	CA	ALA	X	58	29.769	51.953	20.013	0.00	0.00
ATOM	889	HA	ALA	X	58	30.682	52.225	20.542	0.00	0.00
ATOM	890	CB	ALA	X	58	28.641	51.771	21.105	0.00	0.00
ATOM	891	HB1	ALA	X	58	27.733	51.271	20.769	0.00	0.00
ATOM	892	HB2	ALA	X	58	28.380	52.705	21.604	0.00	0.00
ATOM	893	HB3	ALA	X	58	29.109	51.148	21.867	0.00	0.00
ATOM	894	C	ALA	X	58	30.135	50.616	19.279	0.00	0.00
ATOM	895	O	ALA	X	58	30.043	49.556	19.828	0.00	0.00

ATOM	896	N	THR	X	59	30.575	50.683	18.042	0.00	0.00
ATOM	897	H	THR	X	59	30.525	51.576	17.572	0.00	0.00
ATOM	898	CA	THR	X	59	30.943	49.490	17.210	0.00	0.00
ATOM	899	HA	THR	X	59	30.211	48.718	17.448	0.00	0.00
ATOM	900	CB	THR	X	59	30.934	49.767	15.703	0.00	0.00
ATOM	901	HB	THR	X	59	31.155	48.826	15.198	0.00	0.00
ATOM	902	CG2	THR	X	59	29.686	50.328	15.141	0.00	0.00
ATOM	903	HG21	THR	X	59	29.281	51.190	15.672	0.00	0.00
ATOM	904	HG22	THR	X	59	28.935	49.550	15.278	0.00	0.00
ATOM	905	HG23	THR	X	59	29.930	50.441	14.085	0.00	0.00
ATOM	906	OG1	THR	X	59	31.936	50.713	15.356	0.00	0.00
ATOM	907	HG1	THR	X	59	31.682	51.601	15.617	0.00	0.00
ATOM	908	C	THR	X	59	32.340	48.994	17.619	0.00	0.00
ATOM	909	O	THR	X	59	32.817	48.097	16.979	0.00	0.00
ATOM	910	N	THR	X	60	33.033	49.490	18.681	0.00	0.00
ATOM	911	H	THR	X	60	32.631	50.179	19.300	0.00	0.00
ATOM	912	CA	THR	X	60	34.471	49.473	18.736	0.00	0.00
ATOM	913	HA	THR	X	60	34.797	48.438	18.634	0.00	0.00
ATOM	914	CB	THR	X	60	35.093	50.391	17.605	0.00	0.00
ATOM	915	HB	THR	X	60	34.525	50.317	16.678	0.00	0.00
ATOM	916	CG2	THR	X	60	35.200	51.877	17.973	0.00	0.00
ATOM	917	HG21	THR	X	60	36.013	52.159	18.642	0.00	0.00
ATOM	918	HG22	THR	X	60	34.222	52.165	18.359	0.00	0.00
ATOM	919	HG23	THR	X	60	35.371	52.407	17.036	0.00	0.00
ATOM	920	OG1	THR	X	60	36.355	49.869	17.313	0.00	0.00
ATOM	921	HG1	THR	X	60	36.653	50.191	16.459	0.00	0.00
ATOM	922	C	THR	X	60	34.974	49.911	20.162	0.00	0.00
ATOM	923	O	THR	X	60	34.213	50.682	20.759	0.00	0.00
ATOM	924	N	PHE	X	61	36.171	49.501	20.589	0.00	0.00
ATOM	925	H	PHE	X	61	36.721	48.846	20.052	0.00	0.00
ATOM	926	CA	PHE	X	61	36.815	50.053	21.747	0.00	0.00
ATOM	927	HA	PHE	X	61	36.014	50.340	22.429	0.00	0.00
ATOM	928	CB	PHE	X	61	37.787	49.093	22.364	0.00	0.00
ATOM	929	HB2	PHE	X	61	38.449	48.687	21.599	0.00	0.00
ATOM	930	HB3	PHE	X	61	38.488	49.677	22.960	0.00	0.00
ATOM	931	CG	PHE	X	61	37.084	47.913	23.082	0.00	0.00
ATOM	932	CD1	PHE	X	61	36.978	48.043	24.496	0.00	0.00
ATOM	933	HD1	PHE	X	61	37.327	48.923	25.017	0.00	0.00
ATOM	934	CE1	PHE	X	61	36.382	47.009	25.254	0.00	0.00
ATOM	935	HE1	PHE	X	61	36.324	47.063	26.331	0.00	0.00
ATOM	936	CZ	PHE	X	61	36.060	45.754	24.677	0.00	0.00
ATOM	937	HZ	PHE	X	61	35.751	44.959	25.339	0.00	0.00
ATOM	938	CE2	PHE	X	61	36.094	45.638	23.301	0.00	0.00
ATOM	939	HE2	PHE	X	61	35.826	44.738	22.768	0.00	0.00
ATOM	940	CD2	PHE	X	61	36.632	46.713	22.492	0.00	0.00
ATOM	941	HD2	PHE	X	61	36.681	46.590	21.420	0.00	0.00
ATOM	942	C	PHE	X	61	37.543	51.307	21.335	0.00	0.00
ATOM	943	O	PHE	X	61	38.366	51.259	20.426	0.00	0.00
ATOM	944	N	GLN	X	62	37.563	52.344	22.206	0.00	0.00
ATOM	945	H	GLN	X	62	37.138	52.242	23.117	0.00	0.00
ATOM	946	CA	GLN	X	62	38.321	53.498	22.032	0.00	0.00
ATOM	947	HA	GLN	X	62	38.464	53.649	20.962	0.00	0.00
ATOM	948	CB	GLN	X	62	37.626	54.761	22.646	0.00	0.00
ATOM	949	HB2	GLN	X	62	37.578	54.719	23.734	0.00	0.00
ATOM	950	HB3	GLN	X	62	38.183	55.639	22.321	0.00	0.00
ATOM	951	CG	GLN	X	62	36.217	54.984	22.046	0.00	0.00
ATOM	952	HG2	GLN	X	62	35.538	54.208	22.399	0.00	0.00
ATOM	953	HG3	GLN	X	62	35.943	55.866	22.625	0.00	0.00
ATOM	954	CD	GLN	X	62	36.208	55.382	20.575	0.00	0.00
ATOM	955	OE1	GLN	X	62	37.122	56.167	20.111	0.00	0.00
ATOM	956	NE2	GLN	X	62	35.271	54.916	19.780	0.00	0.00
ATOM	957	HE21	GLN	X	62	35.260	55.284	18.839	0.00	0.00
ATOM	958	HE22	GLN	X	62	34.548	54.274	20.072	0.00	0.00
ATOM	959	C	GLN	X	62	39.792	53.492	22.484	0.00	0.00
ATOM	960	O	GLN	X	62	40.698	53.668	21.748	0.00	0.00
ATOM	961	N	SER	X	63	39.979	53.143	23.715	0.00	0.00
ATOM	962	H	SER	X	63	39.196	52.983	24.333	0.00	0.00

ATOM	963	CA	SER	X	63	41.242	53.374	24.451	0.00	0.00
ATOM	964	HA	SER	X	63	42.071	52.950	23.884	0.00	0.00
ATOM	965	CB	SER	X	63	41.588	54.864	24.588	0.00	0.00
ATOM	966	HB2	SER	X	63	42.595	54.852	25.006	0.00	0.00
ATOM	967	HB3	SER	X	63	41.553	55.225	23.561	0.00	0.00
ATOM	968	OG	SER	X	63	40.812	55.690	25.510	0.00	0.00
ATOM	969	HG	SER	X	63	40.841	56.607	25.227	0.00	0.00
ATOM	970	C	SER	X	63	41.258	52.687	25.777	0.00	0.00
ATOM	971	O	SER	X	63	40.214	52.229	26.226	0.00	0.00
ATOM	972	N	VAL	X	64	42.425	52.615	26.507	0.00	0.00
ATOM	973	H	VAL	X	64	43.249	53.089	26.165	0.00	0.00
ATOM	974	CA	VAL	X	64	42.402	52.171	27.931	0.00	0.00
ATOM	975	HA	VAL	X	64	41.447	52.428	28.388	0.00	0.00
ATOM	976	CB	VAL	X	64	42.592	50.684	28.099	0.00	0.00
ATOM	977	HB	VAL	X	64	42.605	50.475	29.169	0.00	0.00
ATOM	978	CG1	VAL	X	64	41.407	49.909	27.463	0.00	0.00
ATOM	979	HG11	VAL	X	64	41.477	49.981	26.378	0.00	0.00
ATOM	980	HG12	VAL	X	64	41.509	48.849	27.696	0.00	0.00
ATOM	981	HG13	VAL	X	64	40.469	50.313	27.843	0.00	0.00
ATOM	982	CG2	VAL	X	64	43.968	50.234	27.611	0.00	0.00
ATOM	983	HG21	VAL	X	64	44.061	50.071	26.537	0.00	0.00
ATOM	984	HG22	VAL	X	64	44.001	49.168	27.838	0.00	0.00
ATOM	985	HG23	VAL	X	64	44.741	50.818	28.112	0.00	0.00
ATOM	986	C	VAL	X	64	43.327	53.087	28.783	0.00	0.00
ATOM	987	O	VAL	X	64	44.130	53.858	28.200	0.00	0.00
ATOM	988	N	CYX	X	65	43.122	53.060	30.098	0.00	0.00
ATOM	989	H	CYX	X	65	42.553	52.312	30.468	0.00	0.00
ATOM	990	CA	CYX	X	65	43.905	54.015	30.969	0.00	0.00
ATOM	991	HA	CYX	X	65	43.780	55.010	30.541	0.00	0.00
ATOM	992	CB	CYX	X	65	43.293	54.104	32.354	0.00	0.00
ATOM	993	HB2	CYX	X	65	43.566	53.186	32.874	0.00	0.00
ATOM	994	HB3	CYX	X	65	43.726	54.969	32.855	0.00	0.00
ATOM	995	SG	CYX	X	65	41.506	54.098	32.390	0.00	0.00
ATOM	996	C	CYX	X	65	45.423	53.747	31.042	0.00	0.00
ATOM	997	O	CYX	X	65	45.823	52.579	31.099	0.00	0.00
ATOM	998	N	TYR	X	66	46.177	54.864	31.101	0.00	0.00
ATOM	999	H	TYR	X	66	45.680	55.738	31.001	0.00	0.00
ATOM	1000	CA	TYR	X	66	47.611	54.802	31.521	0.00	0.00
ATOM	1001	HA	TYR	X	66	48.114	54.163	30.796	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.196	56.301	31.557	0.00	0.00
ATOM	1003	HB2	TYR	X	66	47.416	57.021	31.805	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.039	56.368	32.246	0.00	0.00
ATOM	1005	CG	TYR	X	66	48.828	56.704	30.214	0.00	0.00
ATOM	1006	CD1	TYR	X	66	48.230	57.676	29.351	0.00	0.00
ATOM	1007	HD1	TYR	X	66	47.460	58.381	29.629	0.00	0.00
ATOM	1008	CE1	TYR	X	66	48.818	57.903	28.103	0.00	0.00
ATOM	1009	HE1	TYR	X	66	48.411	58.624	27.410	0.00	0.00
ATOM	1010	CZ	TYR	X	66	49.902	57.186	27.598	0.00	0.00
ATOM	1011	OH	TYR	X	66	50.462	57.497	26.398	0.00	0.00
ATOM	1012	HH	TYR	X	66	50.160	58.325	26.017	0.00	0.00
ATOM	1013	CE2	TYR	X	66	50.516	56.227	28.537	0.00	0.00
ATOM	1014	HE2	TYR	X	66	51.356	55.674	28.142	0.00	0.00
ATOM	1015	CD2	TYR	X	66	49.955	56.005	29.805	0.00	0.00
ATOM	1016	HD2	TYR	X	66	50.478	55.348	30.484	0.00	0.00
ATOM	1017	C	TYR	X	66	47.696	54.158	32.888	0.00	0.00
ATOM	1018	O	TYR	X	66	46.827	54.335	33.799	0.00	0.00
ATOM	1019	N	GLN	X	67	48.715	53.324	33.014	0.00	0.00
ATOM	1020	H	GLN	X	67	49.262	53.117	32.191	0.00	0.00
ATOM	1021	CA	GLN	X	67	48.849	52.364	34.102	0.00	0.00
ATOM	1022	HA	GLN	X	67	48.609	52.798	35.072	0.00	0.00
ATOM	1023	CB	GLN	X	67	47.818	51.238	33.842	0.00	0.00
ATOM	1024	HB2	GLN	X	67	47.769	50.623	34.740	0.00	0.00
ATOM	1025	HB3	GLN	X	67	46.837	51.693	33.705	0.00	0.00
ATOM	1026	CG	GLN	X	67	47.974	50.255	32.662	0.00	0.00
ATOM	1027	HG2	GLN	X	67	48.146	50.888	31.792	0.00	0.00
ATOM	1028	HG3	GLN	X	67	48.896	49.748	32.947	0.00	0.00
ATOM	1029	CD	GLN	X	67	46.861	49.252	32.618	0.00	0.00

ATOM	1030	OE1	GLN	X	67	46.937	48.057	32.967	0.00	0.00
ATOM	1031	NE2	GLN	X	67	45.739	49.571	31.935	0.00	0.00
ATOM	1032	HE21	GLN	X	67	44.968	48.918	31.963	0.00	0.00
ATOM	1033	HE22	GLN	X	67	45.602	50.500	31.562	0.00	0.00
ATOM	1034	C	GLN	X	67	50.334	51.743	34.171	0.00	0.00
ATOM	1035	O	GLN	X	67	51.139	52.013	33.225	0.00	0.00
ATOM	1036	N	TYR	X	68	50.697	50.973	35.158	0.00	0.00
ATOM	1037	H	TYR	X	68	50.040	50.909	35.923	0.00	0.00
ATOM	1038	CA	TYR	X	68	52.040	50.338	35.288	0.00	0.00
ATOM	1039	HA	TYR	X	68	52.715	51.062	34.832	0.00	0.00
ATOM	1040	CB	TYR	X	68	52.466	50.048	36.678	0.00	0.00
ATOM	1041	HB2	TYR	X	68	52.592	51.000	37.193	0.00	0.00
ATOM	1042	HB3	TYR	X	68	51.664	49.577	37.247	0.00	0.00
ATOM	1043	CG	TYR	X	68	53.775	49.220	36.683	0.00	0.00
ATOM	1044	CD1	TYR	X	68	55.025	49.890	36.469	0.00	0.00
ATOM	1045	HD1	TYR	X	68	55.000	50.923	36.154	0.00	0.00
ATOM	1046	CE1	TYR	X	68	56.223	49.143	36.280	0.00	0.00
ATOM	1047	HE1	TYR	X	68	57.118	49.641	35.935	0.00	0.00
ATOM	1048	CZ	TYR	X	68	56.231	47.714	36.408	0.00	0.00
ATOM	1049	OH	TYR	X	68	57.373	47.111	36.161	0.00	0.00
ATOM	1050	HH	TYR	X	68	58.069	47.607	35.723	0.00	0.00
ATOM	1051	CE2	TYR	X	68	54.980	47.061	36.513	0.00	0.00
ATOM	1052	HE2	TYR	X	68	55.069	45.985	36.476	0.00	0.00
ATOM	1053	CD2	TYR	X	68	53.809	47.744	36.811	0.00	0.00
ATOM	1054	HD2	TYR	X	68	52.844	47.261	36.855	0.00	0.00
ATOM	1055	C	TYR	X	68	52.116	49.191	34.297	0.00	0.00
ATOM	1056	O	TYR	X	68	51.355	48.221	34.449	0.00	0.00
ATOM	1057	N	VAL	X	69	53.015	49.176	33.336	0.00	0.00
ATOM	1058	H	VAL	X	69	53.655	49.958	33.368	0.00	0.00
ATOM	1059	CA	VAL	X	69	53.187	48.162	32.295	0.00	0.00
ATOM	1060	HA	VAL	X	69	52.212	47.676	32.316	0.00	0.00
ATOM	1061	CB	VAL	X	69	53.249	48.863	30.894	0.00	0.00
ATOM	1062	HB	VAL	X	69	54.118	49.521	30.860	0.00	0.00
ATOM	1063	CG1	VAL	X	69	53.559	47.860	29.780	0.00	0.00
ATOM	1064	HG11	VAL	X	69	52.907	47.022	30.027	0.00	0.00
ATOM	1065	HG12	VAL	X	69	53.210	48.250	28.824	0.00	0.00
ATOM	1066	HG13	VAL	X	69	54.612	47.609	29.655	0.00	0.00
ATOM	1067	CG2	VAL	X	69	51.941	49.560	30.479	0.00	0.00
ATOM	1068	HG21	VAL	X	69	51.137	48.846	30.300	0.00	0.00
ATOM	1069	HG22	VAL	X	69	52.121	50.175	29.597	0.00	0.00
ATOM	1070	HG23	VAL	X	69	51.595	50.270	31.231	0.00	0.00
ATOM	1071	C	VAL	X	69	54.415	47.287	32.559	0.00	0.00
ATOM	1072	O	VAL	X	69	55.485	47.790	32.800	0.00	0.00
ATOM	1073	N	ASP	X	70	54.193	45.951	32.499	0.00	0.00
ATOM	1074	H	ASP	X	70	53.294	45.614	32.184	0.00	0.00
ATOM	1075	CA	ASP	X	70	55.147	44.902	32.922	0.00	0.00
ATOM	1076	HA	ASP	X	70	55.564	45.211	33.881	0.00	0.00
ATOM	1077	CB	ASP	X	70	54.508	43.516	33.014	0.00	0.00
ATOM	1078	HB2	ASP	X	70	53.485	43.709	33.338	0.00	0.00
ATOM	1079	HB3	ASP	X	70	54.440	42.994	32.060	0.00	0.00
ATOM	1080	CG	ASP	X	70	55.316	42.725	34.024	0.00	0.00
ATOM	1081	OD1	ASP	X	70	56.301	41.988	33.684	0.00	0.00
ATOM	1082	OD2	ASP	X	70	54.938	42.755	35.213	0.00	0.00
ATOM	1083	C	ASP	X	70	56.450	44.915	32.116	0.00	0.00
ATOM	1084	O	ASP	X	70	56.421	45.023	30.885	0.00	0.00
ATOM	1085	N	THR	X	71	57.633	44.769	32.826	0.00	0.00
ATOM	1086	H	THR	X	71	57.533	44.619	33.819	0.00	0.00
ATOM	1087	CA	THR	X	71	59.074	44.832	32.409	0.00	0.00
ATOM	1088	HA	THR	X	71	59.234	44.932	31.335	0.00	0.00
ATOM	1089	CB	THR	X	71	59.673	46.115	33.067	0.00	0.00
ATOM	1090	HB	THR	X	71	60.724	46.109	32.780	0.00	0.00
ATOM	1091	CG2	THR	X	71	58.969	47.378	32.564	0.00	0.00
ATOM	1092	HG21	THR	X	71	59.687	48.198	32.559	0.00	0.00
ATOM	1093	HG22	THR	X	71	58.088	47.592	33.170	0.00	0.00
ATOM	1094	HG23	THR	X	71	58.604	47.339	31.538	0.00	0.00
ATOM	1095	OG1	THR	X	71	59.647	45.988	34.394	0.00	0.00
ATOM	1096	HG1	THR	X	71	59.821	46.863	34.750	0.00	0.00

ATOM	1097	C	THR	X	71	59.957	43.644	32.792	0.00	0.00
ATOM	1098	O	THR	X	71	61.158	43.632	32.450	0.00	0.00
ATOM	1099	N	LEU	X	72	59.359	42.696	33.524	0.00	0.00
ATOM	1100	H	LEU	X	72	58.387	42.751	33.797	0.00	0.00
ATOM	1101	CA	LEU	X	72	59.936	41.451	33.958	0.00	0.00
ATOM	1102	HA	LEU	X	72	61.018	41.578	33.963	0.00	0.00
ATOM	1103	CB	LEU	X	72	59.525	41.142	35.415	0.00	0.00
ATOM	1104	HB2	LEU	X	72	59.329	42.021	36.029	0.00	0.00
ATOM	1105	HB3	LEU	X	72	58.515	40.750	35.296	0.00	0.00
ATOM	1106	CG	LEU	X	72	60.393	40.090	36.103	0.00	0.00
ATOM	1107	HG	LEU	X	72	60.429	39.286	35.367	0.00	0.00
ATOM	1108	CD1	LEU	X	72	61.754	40.716	36.365	0.00	0.00
ATOM	1109	HD11	LEU	X	72	61.646	41.606	36.985	0.00	0.00
ATOM	1110	HD12	LEU	X	72	62.292	41.074	35.487	0.00	0.00
ATOM	1111	HD13	LEU	X	72	62.399	40.042	36.928	0.00	0.00
ATOM	1112	CD2	LEU	X	72	59.743	39.564	37.449	0.00	0.00
ATOM	1113	HD21	LEU	X	72	59.444	40.370	38.119	0.00	0.00
ATOM	1114	HD22	LEU	X	72	58.796	39.101	37.170	0.00	0.00
ATOM	1115	HD23	LEU	X	72	60.326	38.808	37.974	0.00	0.00
ATOM	1116	C	LEU	X	72	59.588	40.272	33.020	0.00	0.00
ATOM	1117	O	LEU	X	72	60.561	39.581	32.651	0.00	0.00
ATOM	1118	N	TYR	X	73	58.341	40.050	32.672	0.00	0.00
ATOM	1119	H	TYR	X	73	57.684	40.794	32.859	0.00	0.00
ATOM	1120	CA	TYR	X	73	57.934	39.080	31.685	0.00	0.00
ATOM	1121	HA	TYR	X	73	58.829	38.605	31.284	0.00	0.00
ATOM	1122	CB	TYR	X	73	57.075	38.025	32.421	0.00	0.00
ATOM	1123	HB2	TYR	X	73	56.214	38.555	32.828	0.00	0.00
ATOM	1124	HB3	TYR	X	73	56.717	37.184	31.827	0.00	0.00
ATOM	1125	CG	TYR	X	73	57.813	37.393	33.535	0.00	0.00
ATOM	1126	CD1	TYR	X	73	58.871	36.459	33.240	0.00	0.00
ATOM	1127	HD1	TYR	X	73	59.189	36.340	32.214	0.00	0.00
ATOM	1128	CE1	TYR	X	73	59.372	35.589	34.258	0.00	0.00
ATOM	1129	HE1	TYR	X	73	60.199	34.940	34.007	0.00	0.00
ATOM	1130	CZ	TYR	X	73	58.906	35.726	35.592	0.00	0.00
ATOM	1131	OH	TYR	X	73	59.378	34.975	36.603	0.00	0.00
ATOM	1132	HH	TYR	X	73	58.921	35.110	37.436	0.00	0.00
ATOM	1133	CE2	TYR	X	73	57.921	36.683	35.930	0.00	0.00
ATOM	1134	HE2	TYR	X	73	57.503	36.675	36.926	0.00	0.00
ATOM	1135	CD2	TYR	X	73	57.376	37.491	34.862	0.00	0.00
ATOM	1136	HD2	TYR	X	73	56.591	38.204	35.067	0.00	0.00
ATOM	1137	C	TYR	X	73	57.175	39.562	30.469	0.00	0.00
ATOM	1138	O	TYR	X	73	56.099	39.051	30.142	0.00	0.00
ATOM	1139	N	PRO	X	74	57.525	40.709	29.812	0.00	0.00
ATOM	1140	CD	PRO	X	74	58.862	41.401	29.922	0.00	0.00
ATOM	1141	HD2	PRO	X	74	59.677	40.677	29.908	0.00	0.00
ATOM	1142	HD3	PRO	X	74	58.868	41.962	30.856	0.00	0.00
ATOM	1143	CG	PRO	X	74	59.055	42.289	28.733	0.00	0.00
ATOM	1144	HG2	PRO	X	74	59.458	41.731	27.889	0.00	0.00
ATOM	1145	HG3	PRO	X	74	59.803	43.036	28.996	0.00	0.00
ATOM	1146	CB	PRO	X	74	57.634	42.739	28.577	0.00	0.00
ATOM	1147	HB2	PRO	X	74	57.480	43.266	27.636	0.00	0.00
ATOM	1148	HB3	PRO	X	74	57.415	43.440	29.382	0.00	0.00
ATOM	1149	CA	PRO	X	74	56.819	41.448	28.754	0.00	0.00
ATOM	1150	HA	PRO	X	74	55.906	41.868	29.175	0.00	0.00
ATOM	1151	C	PRO	X	74	56.605	40.541	27.482	0.00	0.00
ATOM	1152	O	PRO	X	74	57.526	39.880	27.091	0.00	0.00
ATOM	1153	N	GLY	X	75	55.366	40.479	26.985	0.00	0.00
ATOM	1154	H	GLY	X	75	54.597	41.006	27.373	0.00	0.00
ATOM	1155	CA	GLY	X	75	55.020	39.682	25.840	0.00	0.00
ATOM	1156	HA2	GLY	X	75	54.072	40.040	25.438	0.00	0.00
ATOM	1157	HA3	GLY	X	75	55.706	39.782	24.999	0.00	0.00
ATOM	1158	C	GLY	X	75	54.952	38.078	26.041	0.00	0.00
ATOM	1159	O	GLY	X	75	54.650	37.337	25.151	0.00	0.00
ATOM	1160	N	PHE	X	76	55.199	37.672	27.329	0.00	0.00
ATOM	1161	H	PHE	X	76	55.328	38.275	28.129	0.00	0.00
ATOM	1162	CA	PHE	X	76	54.994	36.289	27.723	0.00	0.00
ATOM	1163	HA	PHE	X	76	55.486	35.620	27.017	0.00	0.00

ATOM	1164	CB	PHE	X	76	55.587	35.981	29.170	0.00	0.00
ATOM	1165	HB2	PHE	X	76	56.670	35.874	29.101	0.00	0.00
ATOM	1166	HB3	PHE	X	76	55.243	36.780	29.828	0.00	0.00
ATOM	1167	CG	PHE	X	76	55.164	34.636	29.750	0.00	0.00
ATOM	1168	CD1	PHE	X	76	55.499	33.455	29.108	0.00	0.00
ATOM	1169	HD1	PHE	X	76	56.184	33.416	28.274	0.00	0.00
ATOM	1170	CE1	PHE	X	76	55.190	32.216	29.612	0.00	0.00
ATOM	1171	HE1	PHE	X	76	55.501	31.305	29.122	0.00	0.00
ATOM	1172	CZ	PHE	X	76	54.381	32.176	30.801	0.00	0.00
ATOM	1173	HZ	PHE	X	76	54.101	31.254	31.289	0.00	0.00
ATOM	1174	CE2	PHE	X	76	53.923	33.388	31.349	0.00	0.00
ATOM	1175	HE2	PHE	X	76	53.219	33.260	32.158	0.00	0.00
ATOM	1176	CD2	PHE	X	76	54.348	34.622	30.894	0.00	0.00
ATOM	1177	HD2	PHE	X	76	54.046	35.546	31.366	0.00	0.00
ATOM	1178	C	PHE	X	76	53.501	35.984	27.682	0.00	0.00
ATOM	1179	O	PHE	X	76	52.575	36.674	28.020	0.00	0.00
ATOM	1180	N	GLU	X	77	53.276	34.785	27.203	0.00	0.00
ATOM	1181	H	GLU	X	77	54.066	34.189	27.001	0.00	0.00
ATOM	1182	CA	GLU	X	77	51.954	34.207	26.986	0.00	0.00
ATOM	1183	HA	GLU	X	77	51.449	34.714	26.164	0.00	0.00
ATOM	1184	CB	GLU	X	77	52.291	32.718	26.697	0.00	0.00
ATOM	1185	HB2	GLU	X	77	53.305	32.607	26.311	0.00	0.00
ATOM	1186	HB3	GLU	X	77	52.273	32.202	27.657	0.00	0.00
ATOM	1187	CG	GLU	X	77	51.204	32.020	25.835	0.00	0.00
ATOM	1188	HG2	GLU	X	77	50.275	32.483	26.168	0.00	0.00
ATOM	1189	HG3	GLU	X	77	51.441	32.260	24.798	0.00	0.00
ATOM	1190	CD	GLU	X	77	51.065	30.472	25.824	0.00	0.00
ATOM	1191	OE1	GLU	X	77	50.823	29.954	26.968	0.00	0.00
ATOM	1192	OE2	GLU	X	77	51.161	29.804	24.763	0.00	0.00
ATOM	1193	C	GLU	X	77	50.964	34.339	28.143	0.00	0.00
ATOM	1194	O	GLU	X	77	49.750	34.480	27.816	0.00	0.00
ATOM	1195	N	GLY	X	78	51.379	34.292	29.406	0.00	0.00
ATOM	1196	H	GLY	X	78	52.354	34.073	29.558	0.00	0.00
ATOM	1197	CA	GLY	X	78	50.510	34.447	30.627	0.00	0.00
ATOM	1198	HA2	GLY	X	78	49.503	34.102	30.389	0.00	0.00
ATOM	1199	HA3	GLY	X	78	50.925	33.917	31.484	0.00	0.00
ATOM	1200	C	GLY	X	78	50.455	35.888	31.202	0.00	0.00
ATOM	1201	O	GLY	X	78	49.948	35.985	32.297	0.00	0.00
ATOM	1202	N	THR	X	79	51.050	36.889	30.559	0.00	0.00
ATOM	1203	H	THR	X	79	51.345	36.733	29.606	0.00	0.00
ATOM	1204	CA	THR	X	79	51.356	38.270	31.107	0.00	0.00
ATOM	1205	HA	THR	X	79	50.701	38.338	31.976	0.00	0.00
ATOM	1206	CB	THR	X	79	52.834	38.428	31.508	0.00	0.00
ATOM	1207	HB	THR	X	79	53.517	38.047	30.749	0.00	0.00
ATOM	1208	CG2	THR	X	79	53.245	39.860	31.940	0.00	0.00
ATOM	1209	HG21	THR	X	79	53.138	40.573	31.122	0.00	0.00
ATOM	1210	HG22	THR	X	79	54.316	39.773	32.122	0.00	0.00
ATOM	1211	HG23	THR	X	79	52.726	40.173	32.846	0.00	0.00
ATOM	1212	OG1	THR	X	79	53.008	37.654	32.640	0.00	0.00
ATOM	1213	HG1	THR	X	79	52.258	37.819	33.217	0.00	0.00
ATOM	1214	C	THR	X	79	50.760	39.284	30.153	0.00	0.00
ATOM	1215	O	THR	X	79	50.012	40.142	30.560	0.00	0.00
ATOM	1216	N	GLU	X	80	51.069	39.071	28.912	0.00	0.00
ATOM	1217	H	GLU	X	80	51.662	38.291	28.667	0.00	0.00
ATOM	1218	CA	GLU	X	80	50.479	39.752	27.786	0.00	0.00
ATOM	1219	HA	GLU	X	80	50.758	40.805	27.829	0.00	0.00
ATOM	1220	CB	GLU	X	80	51.134	39.147	26.481	0.00	0.00
ATOM	1221	HB2	GLU	X	80	52.213	39.017	26.564	0.00	0.00
ATOM	1222	HB3	GLU	X	80	50.733	38.138	26.387	0.00	0.00
ATOM	1223	CG	GLU	X	80	51.059	39.961	25.181	0.00	0.00
ATOM	1224	HG2	GLU	X	80	49.997	39.891	24.945	0.00	0.00
ATOM	1225	HG3	GLU	X	80	51.238	41.011	25.412	0.00	0.00
ATOM	1226	CD	GLU	X	80	51.883	39.491	23.997	0.00	0.00
ATOM	1227	OE1	GLU	X	80	51.825	38.288	23.641	0.00	0.00
ATOM	1228	OE2	GLU	X	80	52.540	40.354	23.283	0.00	0.00
ATOM	1229	C	GLU	X	80	48.936	39.780	27.828	0.00	0.00
ATOM	1230	O	GLU	X	80	48.375	40.805	27.578	0.00	0.00

ATOM	1231	N	MET	X	81	48.346	38.643	28.156	0.00	0.00
ATOM	1232	H	MET	X	81	48.901	37.799	28.165	0.00	0.00
ATOM	1233	CA	MET	X	81	46.906	38.518	28.350	0.00	0.00
ATOM	1234	HA	MET	X	81	46.279	38.818	27.510	0.00	0.00
ATOM	1235	CB	MET	X	81	46.609	36.979	28.522	0.00	0.00
ATOM	1236	HB2	MET	X	81	45.544	36.888	28.309	0.00	0.00
ATOM	1237	HB3	MET	X	81	47.119	36.403	27.750	0.00	0.00
ATOM	1238	CG	MET	X	81	47.086	36.441	29.870	0.00	0.00
ATOM	1239	HG2	MET	X	81	48.141	36.677	30.010	0.00	0.00
ATOM	1240	HG3	MET	X	81	46.533	37.048	30.588	0.00	0.00
ATOM	1241	SD	MET	X	81	46.859	34.618	30.065	0.00	0.00
ATOM	1242	CE	MET	X	81	45.073	34.643	30.519	0.00	0.00
ATOM	1243	HE1	MET	X	81	44.804	33.831	31.195	0.00	0.00
ATOM	1244	HE2	MET	X	81	44.923	35.577	31.059	0.00	0.00
ATOM	1245	HE3	MET	X	81	44.469	34.684	29.613	0.00	0.00
ATOM	1246	C	MET	X	81	46.332	39.416	29.427	0.00	0.00
ATOM	1247	O	MET	X	81	45.132	39.543	29.540	0.00	0.00
ATOM	1248	N	TRP	X	82	47.140	39.928	30.346	0.00	0.00
ATOM	1249	H	TRP	X	82	48.133	39.806	30.207	0.00	0.00
ATOM	1250	CA	TRP	X	82	46.789	40.972	31.435	0.00	0.00
ATOM	1251	HA	TRP	X	82	45.700	40.980	31.455	0.00	0.00
ATOM	1252	CB	TRP	X	82	47.376	40.663	32.840	0.00	0.00
ATOM	1253	HB2	TRP	X	82	48.415	40.988	32.807	0.00	0.00
ATOM	1254	HB3	TRP	X	82	46.850	41.226	33.611	0.00	0.00
ATOM	1255	CG	TRP	X	82	47.261	39.208	33.190	0.00	0.00
ATOM	1256	CD1	TRP	X	82	48.323	38.395	33.546	0.00	0.00
ATOM	1257	HD1	TRP	X	82	49.376	38.617	33.631	0.00	0.00
ATOM	1258	NE1	TRP	X	82	47.853	37.120	33.632	0.00	0.00
ATOM	1259	HE1	TRP	X	82	48.426	36.302	33.783	0.00	0.00
ATOM	1260	CE2	TRP	X	82	46.440	37.108	33.572	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	45.480	36.057	33.719	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	45.858	35.078	33.974	0.00	0.00
ATOM	1263	CH2	TRP	X	82	44.155	36.333	33.591	0.00	0.00
ATOM	1264	HH2	TRP	X	82	43.385	35.578	33.646	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	43.699	37.646	33.219	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	42.682	37.896	32.954	0.00	0.00
ATOM	1267	CE3	TRP	X	82	44.677	38.651	32.953	0.00	0.00
ATOM	1268	HE3	TRP	X	82	44.367	39.615	32.576	0.00	0.00
ATOM	1269	CD2	TRP	X	82	46.029	38.426	33.178	0.00	0.00
ATOM	1270	C	TRP	X	82	47.028	42.443	31.152	0.00	0.00
ATOM	1271	O	TRP	X	82	46.641	43.351	31.841	0.00	0.00
ATOM	1272	N	ASN	X	83	47.905	42.701	30.121	0.00	0.00
ATOM	1273	H	ASN	X	83	48.185	41.870	29.620	0.00	0.00
ATOM	1274	CA	ASN	X	83	48.452	44.040	29.781	0.00	0.00
ATOM	1275	HA	ASN	X	83	48.354	44.769	30.586	0.00	0.00
ATOM	1276	CB	ASN	X	83	49.994	43.855	29.476	0.00	0.00
ATOM	1277	HB2	ASN	X	83	50.284	42.959	28.928	0.00	0.00
ATOM	1278	HB3	ASN	X	83	50.290	44.705	28.860	0.00	0.00
ATOM	1279	CG	ASN	X	83	50.954	44.009	30.715	0.00	0.00
ATOM	1280	OD1	ASN	X	83	51.498	45.053	30.959	0.00	0.00
ATOM	1281	ND2	ASN	X	83	51.116	42.945	31.492	0.00	0.00
ATOM	1282	HD21	ASN	X	83	51.712	42.973	32.306	0.00	0.00
ATOM	1283	HD22	ASN	X	83	50.613	42.078	31.366	0.00	0.00
ATOM	1284	C	ASN	X	83	47.651	44.715	28.622	0.00	0.00
ATOM	1285	O	ASN	X	83	47.094	44.010	27.771	0.00	0.00
ATOM	1286	N	PRO	X	84	47.652	46.080	28.535	0.00	0.00
ATOM	1287	CD	PRO	X	84	48.480	47.006	29.317	0.00	0.00
ATOM	1288	HD2	PRO	X	84	49.564	46.896	29.314	0.00	0.00
ATOM	1289	HD3	PRO	X	84	48.239	47.014	30.380	0.00	0.00
ATOM	1290	CG	PRO	X	84	48.271	48.355	28.709	0.00	0.00
ATOM	1291	HG2	PRO	X	84	48.844	48.367	27.782	0.00	0.00
ATOM	1292	HG3	PRO	X	84	48.489	49.094	29.480	0.00	0.00
ATOM	1293	CB	PRO	X	84	46.817	48.290	28.279	0.00	0.00
ATOM	1294	HB2	PRO	X	84	46.590	48.861	27.379	0.00	0.00
ATOM	1295	HB3	PRO	X	84	46.182	48.558	29.124	0.00	0.00
ATOM	1296	CA	PRO	X	84	46.661	46.842	27.804	0.00	0.00
ATOM	1297	HA	PRO	X	84	45.611	46.609	27.976	0.00	0.00

ATOM	1298	C	PRO	X	84	46.832	46.665	26.290	0.00	0.00
ATOM	1299	O	PRO	X	84	47.676	47.267	25.667	0.00	0.00
ATOM	1300	N	ASN	X	85	45.989	45.783	25.690	0.00	0.00
ATOM	1301	H	ASN	X	85	45.360	45.272	26.294	0.00	0.00
ATOM	1302	CA	ASN	X	85	46.019	45.383	24.266	0.00	0.00
ATOM	1303	HA	ASN	X	85	47.061	45.217	23.996	0.00	0.00
ATOM	1304	CB	ASN	X	85	45.206	44.104	24.185	0.00	0.00
ATOM	1305	HB2	ASN	X	85	45.285	43.680	23.184	0.00	0.00
ATOM	1306	HB3	ASN	X	85	45.654	43.400	24.886	0.00	0.00
ATOM	1307	CG	ASN	X	85	43.718	44.268	24.464	0.00	0.00
ATOM	1308	OD1	ASN	X	85	43.223	45.235	24.930	0.00	0.00
ATOM	1309	ND2	ASN	X	85	42.977	43.264	24.025	0.00	0.00
ATOM	1310	HD21	ASN	X	85	41.968	43.287	24.016	0.00	0.00
ATOM	1311	HD22	ASN	X	85	43.444	42.442	23.670	0.00	0.00
ATOM	1312	C	ASN	X	85	45.441	46.449	23.334	0.00	0.00
ATOM	1313	O	ASN	X	85	45.094	46.225	22.191	0.00	0.00
ATOM	1314	N	ARG	X	86	45.176	47.640	23.853	0.00	0.00
ATOM	1315	H	ARG	X	86	45.351	47.848	24.826	0.00	0.00
ATOM	1316	CA	ARG	X	86	44.561	48.753	23.063	0.00	0.00
ATOM	1317	HA	ARG	X	86	44.717	48.556	22.002	0.00	0.00
ATOM	1318	CB	ARG	X	86	43.113	48.841	23.455	0.00	0.00
ATOM	1319	HB2	ARG	X	86	43.100	48.576	24.512	0.00	0.00
ATOM	1320	HB3	ARG	X	86	42.672	49.819	23.266	0.00	0.00
ATOM	1321	CG	ARG	X	86	42.149	47.798	22.752	0.00	0.00
ATOM	1322	HG2	ARG	X	86	42.292	46.848	23.267	0.00	0.00
ATOM	1323	HG3	ARG	X	86	41.144	48.095	23.053	0.00	0.00
ATOM	1324	CD	ARG	X	86	42.136	47.630	21.228	0.00	0.00
ATOM	1325	HD2	ARG	X	86	41.923	48.635	20.864	0.00	0.00
ATOM	1326	HD3	ARG	X	86	43.097	47.292	20.839	0.00	0.00
ATOM	1327	NE	ARG	X	86	41.251	46.536	20.756	0.00	0.00
ATOM	1328	HE	ARG	X	86	40.379	46.764	20.300	0.00	0.00
ATOM	1329	CZ	ARG	X	86	41.618	45.270	20.636	0.00	0.00
ATOM	1330	NH1	ARG	X	86	42.838	44.878	21.090	0.00	0.00
ATOM	1331	HH11	ARG	X	86	43.422	45.581	21.521	0.00	0.00
ATOM	1332	HH12	ARG	X	86	43.176	43.927	21.142	0.00	0.00
ATOM	1333	NH2	ARG	X	86	40.868	44.377	20.018	0.00	0.00
ATOM	1334	HH21	ARG	X	86	39.987	44.730	19.673	0.00	0.00
ATOM	1335	HH22	ARG	X	86	41.136	43.403	20.012	0.00	0.00
ATOM	1336	C	ARG	X	86	45.355	50.075	23.472	0.00	0.00
ATOM	1337	O	ARG	X	86	46.020	50.109	24.524	0.00	0.00
ATOM	1338	N	GLU	X	87	45.103	51.125	22.823	0.00	0.00
ATOM	1339	H	GLU	X	87	44.439	51.094	22.062	0.00	0.00
ATOM	1340	CA	GLU	X	87	45.750	52.449	22.937	0.00	0.00
ATOM	1341	HA	GLU	X	87	46.788	52.392	22.609	0.00	0.00
ATOM	1342	CB	GLU	X	87	45.026	53.395	21.881	0.00	0.00
ATOM	1343	HB2	GLU	X	87	44.873	52.938	20.904	0.00	0.00
ATOM	1344	HB3	GLU	X	87	44.069	53.621	22.351	0.00	0.00
ATOM	1345	CG	GLU	X	87	45.756	54.762	21.659	0.00	0.00
ATOM	1346	HG2	GLU	X	87	46.102	54.973	22.671	0.00	0.00
ATOM	1347	HG3	GLU	X	87	46.581	54.491	21.001	0.00	0.00
ATOM	1348	CD	GLU	X	87	44.936	55.812	21.139	0.00	0.00
ATOM	1349	OE1	GLU	X	87	44.787	55.932	19.920	0.00	0.00
ATOM	1350	OE2	GLU	X	87	44.305	56.499	22.001	0.00	0.00
ATOM	1351	C	GLU	X	87	45.731	52.923	24.350	0.00	0.00
ATOM	1352	O	GLU	X	87	44.679	53.077	24.959	0.00	0.00
ATOM	1353	N	LEU	X	88	46.889	53.220	24.986	0.00	0.00
ATOM	1354	H	LEU	X	88	47.764	53.155	24.486	0.00	0.00
ATOM	1355	CA	LEU	X	88	46.960	53.949	26.188	0.00	0.00
ATOM	1356	HA	LEU	X	88	46.420	53.349	26.919	0.00	0.00
ATOM	1357	CB	LEU	X	88	48.450	53.997	26.789	0.00	0.00
ATOM	1358	HB2	LEU	X	88	49.032	54.559	26.059	0.00	0.00
ATOM	1359	HB3	LEU	X	88	48.326	54.535	27.728	0.00	0.00
ATOM	1360	CG	LEU	X	88	49.066	52.615	27.069	0.00	0.00
ATOM	1361	HG	LEU	X	88	49.040	52.127	26.095	0.00	0.00
ATOM	1362	CD1	LEU	X	88	50.575	52.878	27.379	0.00	0.00
ATOM	1363	HD11	LEU	X	88	51.134	53.371	26.584	0.00	0.00
ATOM	1364	HD12	LEU	X	88	51.010	51.898	27.578	0.00	0.00

ATOM	1365	HD13	LEU	X	88	50.640	53.545	28.239	0.00	0.00
ATOM	1366	CD2	LEU	X	88	48.389	51.750	28.093	0.00	0.00
ATOM	1367	HD21	LEU	X	88	49.099	50.964	28.349	0.00	0.00
ATOM	1368	HD22	LEU	X	88	48.259	52.391	28.964	0.00	0.00
ATOM	1369	HD23	LEU	X	88	47.407	51.427	27.747	0.00	0.00
ATOM	1370	C	LEU	X	88	46.416	55.420	26.047	0.00	0.00
ATOM	1371	O	LEU	X	88	46.785	56.110	25.082	0.00	0.00
ATOM	1372	N	SER	X	89	45.659	55.965	27.019	0.00	0.00
ATOM	1373	H	SER	X	89	45.465	55.400	27.833	0.00	0.00
ATOM	1374	CA	SER	X	89	45.102	57.299	27.129	0.00	0.00
ATOM	1375	HA	SER	X	89	45.773	57.997	26.628	0.00	0.00
ATOM	1376	CB	SER	X	89	43.784	57.289	26.374	0.00	0.00
ATOM	1377	HB2	SER	X	89	43.858	56.800	25.403	0.00	0.00
ATOM	1378	HB3	SER	X	89	43.010	56.769	26.939	0.00	0.00
ATOM	1379	OG	SER	X	89	43.333	58.543	26.156	0.00	0.00
ATOM	1380	HG	SER	X	89	43.229	58.533	25.202	0.00	0.00
ATOM	1381	C	SER	X	89	44.815	57.633	28.556	0.00	0.00
ATOM	1382	O	SER	X	89	44.828	56.842	29.483	0.00	0.00
ATOM	1383	N	GLU	X	90	44.698	58.930	28.889	0.00	0.00
ATOM	1384	H	GLU	X	90	44.727	59.628	28.159	0.00	0.00
ATOM	1385	CA	GLU	X	90	44.160	59.482	30.098	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.174	58.799	30.947	0.00	0.00
ATOM	1387	CB	GLU	X	90	44.950	60.743	30.502	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.999	60.523	30.308	0.00	0.00
ATOM	1389	HB3	GLU	X	90	44.638	61.606	29.914	0.00	0.00
ATOM	1390	CG	GLU	X	90	44.690	61.088	31.959	0.00	0.00
ATOM	1391	HG2	GLU	X	90	43.634	61.179	32.213	0.00	0.00
ATOM	1392	HG3	GLU	X	90	45.093	60.281	32.570	0.00	0.00
ATOM	1393	CD	GLU	X	90	45.449	62.360	32.376	0.00	0.00
ATOM	1394	OE1	GLU	X	90	44.964	63.094	33.264	0.00	0.00
ATOM	1395	OE2	GLU	X	90	46.566	62.584	31.839	0.00	0.00
ATOM	1396	C	GLU	X	90	42.654	59.823	29.950	0.00	0.00
ATOM	1397	O	GLU	X	90	41.788	59.889	30.859	0.00	0.00
ATOM	1398	N	ASP	X	91	42.157	59.899	28.657	0.00	0.00
ATOM	1399	H	ASP	X	91	42.744	59.634	27.879	0.00	0.00
ATOM	1400	CA	ASP	X	91	40.754	60.201	28.284	0.00	0.00
ATOM	1401	HA	ASP	X	91	40.400	60.929	29.014	0.00	0.00
ATOM	1402	CB	ASP	X	91	40.666	60.817	26.858	0.00	0.00
ATOM	1403	HB2	ASP	X	91	41.266	61.724	26.936	0.00	0.00
ATOM	1404	HB3	ASP	X	91	40.985	60.077	26.124	0.00	0.00
ATOM	1405	CG	ASP	X	91	39.293	61.277	26.438	0.00	0.00
ATOM	1406	OD1	ASP	X	91	38.978	61.074	25.232	0.00	0.00
ATOM	1407	OD2	ASP	X	91	38.535	61.969	27.213	0.00	0.00
ATOM	1408	C	ASP	X	91	39.873	58.886	28.430	0.00	0.00
ATOM	1409	O	ASP	X	91	39.060	58.558	27.611	0.00	0.00
ATOM	1410	N	CYX	X	92	40.218	57.988	29.352	0.00	0.00
ATOM	1411	H	CYX	X	92	40.992	58.297	29.923	0.00	0.00
ATOM	1412	CA	CYX	X	92	39.976	56.539	29.260	0.00	0.00
ATOM	1413	HA	CYX	X	92	39.979	56.357	28.186	0.00	0.00
ATOM	1414	CB	CYX	X	92	41.069	55.758	29.959	0.00	0.00
ATOM	1415	HB2	CYX	X	92	40.899	54.709	29.717	0.00	0.00
ATOM	1416	HB3	CYX	X	92	42.092	55.897	29.612	0.00	0.00
ATOM	1417	SG	CYX	X	92	40.930	55.921	31.770	0.00	0.00
ATOM	1418	C	CYX	X	92	38.626	55.974	29.699	0.00	0.00
ATOM	1419	O	CYX	X	92	38.552	54.746	29.620	0.00	0.00
ATOM	1420	N	LEU	X	93	37.623	56.800	30.155	0.00	0.00
ATOM	1421	H	LEU	X	93	37.586	57.804	30.257	0.00	0.00
ATOM	1422	CA	LEU	X	93	36.377	56.163	30.708	0.00	0.00
ATOM	1423	HA	LEU	X	93	36.696	55.275	31.254	0.00	0.00
ATOM	1424	CB	LEU	X	93	35.849	57.093	31.776	0.00	0.00
ATOM	1425	HB2	LEU	X	93	35.599	58.051	31.320	0.00	0.00
ATOM	1426	HB3	LEU	X	93	34.886	56.715	32.120	0.00	0.00
ATOM	1427	CG	LEU	X	93	36.775	57.250	33.088	0.00	0.00
ATOM	1428	HG	LEU	X	93	37.634	57.891	32.887	0.00	0.00
ATOM	1429	CD1	LEU	X	93	35.988	58.031	34.130	0.00	0.00
ATOM	1430	HD11	LEU	X	93	36.690	58.259	34.932	0.00	0.00
ATOM	1431	HD12	LEU	X	93	35.171	57.436	34.536	0.00	0.00

ATOM	1432	HD13	LEU	X	93	35.715	58.958	33.624	0.00	0.00
ATOM	1433	CD2	LEU	X	93	37.226	55.875	33.695	0.00	0.00
ATOM	1434	HD21	LEU	X	93	36.398	55.167	33.686	0.00	0.00
ATOM	1435	HD22	LEU	X	93	38.068	55.408	33.183	0.00	0.00
ATOM	1436	HD23	LEU	X	93	37.562	55.901	34.732	0.00	0.00
ATOM	1437	C	LEU	X	93	35.425	55.674	29.538	0.00	0.00
ATOM	1438	O	LEU	X	93	34.887	56.388	28.753	0.00	0.00
ATOM	1439	N	TYR	X	94	35.197	54.404	29.519	0.00	0.00
ATOM	1440	H	TYR	X	94	35.661	53.804	30.186	0.00	0.00
ATOM	1441	CA	TYR	X	94	34.241	53.682	28.632	0.00	0.00
ATOM	1442	HA	TYR	X	94	33.357	54.289	28.436	0.00	0.00
ATOM	1443	CB	TYR	X	94	34.898	53.185	27.400	0.00	0.00
ATOM	1444	HB2	TYR	X	94	35.763	52.567	27.641	0.00	0.00
ATOM	1445	HB3	TYR	X	94	34.152	52.622	26.838	0.00	0.00
ATOM	1446	CG	TYR	X	94	35.404	54.376	26.592	0.00	0.00
ATOM	1447	CD1	TYR	X	94	34.522	55.190	25.848	0.00	0.00
ATOM	1448	HD1	TYR	X	94	33.518	54.909	25.568	0.00	0.00
ATOM	1449	CE1	TYR	X	94	35.065	56.217	25.108	0.00	0.00
ATOM	1450	HE1	TYR	X	94	34.401	56.701	24.408	0.00	0.00
ATOM	1451	CZ	TYR	X	94	36.410	56.588	25.177	0.00	0.00
ATOM	1452	OH	TYR	X	94	36.908	57.613	24.464	0.00	0.00
ATOM	1453	HH	TYR	X	94	37.867	57.596	24.459	0.00	0.00
ATOM	1454	CE2	TYR	X	94	37.233	55.899	26.096	0.00	0.00
ATOM	1455	HE2	TYR	X	94	38.243	56.261	26.226	0.00	0.00
ATOM	1456	CD2	TYR	X	94	36.804	54.734	26.762	0.00	0.00
ATOM	1457	HD2	TYR	X	94	37.368	54.182	27.499	0.00	0.00
ATOM	1458	C	TYR	X	94	33.621	52.494	29.369	0.00	0.00
ATOM	1459	O	TYR	X	94	34.281	52.000	30.272	0.00	0.00
ATOM	1460	N	LEU	X	95	32.397	52.133	29.016	0.00	0.00
ATOM	1461	H	LEU	X	95	32.035	52.736	28.292	0.00	0.00
ATOM	1462	CA	LEU	X	95	31.773	50.914	29.460	0.00	0.00
ATOM	1463	HA	LEU	X	95	32.519	50.312	29.979	0.00	0.00
ATOM	1464	CB	LEU	X	95	30.644	51.132	30.506	0.00	0.00
ATOM	1465	HB2	LEU	X	95	30.289	50.173	30.884	0.00	0.00
ATOM	1466	HB3	LEU	X	95	31.130	51.532	31.397	0.00	0.00
ATOM	1467	CG	LEU	X	95	29.450	51.959	30.096	0.00	0.00
ATOM	1468	HG	LEU	X	95	29.719	52.725	29.369	0.00	0.00
ATOM	1469	CD1	LEU	X	95	28.386	51.035	29.462	0.00	0.00
ATOM	1470	HD11	LEU	X	95	27.524	51.598	29.102	0.00	0.00
ATOM	1471	HD12	LEU	X	95	28.002	50.293	30.161	0.00	0.00
ATOM	1472	HD13	LEU	X	95	28.708	50.428	28.616	0.00	0.00
ATOM	1473	CD2	LEU	X	95	28.924	52.818	31.294	0.00	0.00
ATOM	1474	HD21	LEU	X	95	28.564	52.237	32.143	0.00	0.00
ATOM	1475	HD22	LEU	X	95	29.743	53.405	31.711	0.00	0.00
ATOM	1476	HD23	LEU	X	95	28.109	53.485	31.014	0.00	0.00
ATOM	1477	C	LEU	X	95	31.321	50.153	28.238	0.00	0.00
ATOM	1478	O	LEU	X	95	31.389	50.628	27.127	0.00	0.00
ATOM	1479	N	ASN	X	96	30.927	48.859	28.416	0.00	0.00
ATOM	1480	H	ASN	X	96	31.032	48.475	29.345	0.00	0.00
ATOM	1481	CA	ASN	X	96	30.693	47.896	27.385	0.00	0.00
ATOM	1482	HA	ASN	X	96	30.461	48.470	26.488	0.00	0.00
ATOM	1483	CB	ASN	X	96	31.919	47.058	27.220	0.00	0.00
ATOM	1484	HB2	ASN	X	96	31.975	46.487	28.146	0.00	0.00
ATOM	1485	HB3	ASN	X	96	31.776	46.356	26.399	0.00	0.00
ATOM	1486	CG	ASN	X	96	33.245	47.875	27.014	0.00	0.00
ATOM	1487	OD1	ASN	X	96	33.562	48.331	25.911	0.00	0.00
ATOM	1488	ND2	ASN	X	96	34.111	48.040	28.012	0.00	0.00
ATOM	1489	HD21	ASN	X	96	34.933	48.611	27.873	0.00	0.00
ATOM	1490	HD22	ASN	X	96	33.892	47.618	28.902	0.00	0.00
ATOM	1491	C	ASN	X	96	29.525	46.944	27.807	0.00	0.00
ATOM	1492	O	ASN	X	96	29.437	46.691	28.982	0.00	0.00
ATOM	1493	N	VAL	X	97	28.715	46.462	26.878	0.00	0.00
ATOM	1494	H	VAL	X	97	28.923	46.720	25.924	0.00	0.00
ATOM	1495	CA	VAL	X	97	27.438	45.857	27.096	0.00	0.00
ATOM	1496	HA	VAL	X	97	27.453	45.518	28.131	0.00	0.00
ATOM	1497	CB	VAL	X	97	26.181	46.745	27.073	0.00	0.00
ATOM	1498	HB	VAL	X	97	26.007	47.231	26.114	0.00	0.00

ATOM	1499	CG1	VAL	X	97	24.884	45.884	27.409	0.00	0.00
ATOM	1500	HG11	VAL	X	97	25.025	45.172	28.222	0.00	0.00
ATOM	1501	HG12	VAL	X	97	24.098	46.555	27.756	0.00	0.00
ATOM	1502	HG13	VAL	X	97	24.615	45.351	26.498	0.00	0.00
ATOM	1503	CG2	VAL	X	97	26.168	48.032	27.947	0.00	0.00
ATOM	1504	HG21	VAL	X	97	27.035	48.612	27.632	0.00	0.00
ATOM	1505	HG22	VAL	X	97	26.231	47.748	28.997	0.00	0.00
ATOM	1506	HG23	VAL	X	97	25.281	48.647	27.791	0.00	0.00
ATOM	1507	C	VAL	X	97	27.340	44.667	26.100	0.00	0.00
ATOM	1508	O	VAL	X	97	27.692	44.890	24.960	0.00	0.00
ATOM	1509	N	TRP	X	98	26.846	43.517	26.541	0.00	0.00
ATOM	1510	H	TRP	X	98	26.731	43.451	27.542	0.00	0.00
ATOM	1511	CA	TRP	X	98	26.734	42.374	25.672	0.00	0.00
ATOM	1512	HA	TRP	X	98	26.696	42.607	24.608	0.00	0.00
ATOM	1513	CB	TRP	X	98	27.896	41.413	25.817	0.00	0.00
ATOM	1514	HB2	TRP	X	98	28.044	40.981	26.807	0.00	0.00
ATOM	1515	HB3	TRP	X	98	27.640	40.501	25.276	0.00	0.00
ATOM	1516	CG	TRP	X	98	29.220	41.676	25.294	0.00	0.00
ATOM	1517	CD1	TRP	X	98	29.672	41.255	24.143	0.00	0.00
ATOM	1518	HD1	TRP	X	98	29.101	40.665	23.442	0.00	0.00
ATOM	1519	NE1	TRP	X	98	31.033	41.481	23.993	0.00	0.00
ATOM	1520	HE1	TRP	X	98	31.651	41.135	23.274	0.00	0.00
ATOM	1521	CE2	TRP	X	98	31.467	42.321	25.048	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	32.709	42.857	25.476	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	33.569	42.861	24.822	0.00	0.00
ATOM	1524	CH2	TRP	X	98	32.798	43.457	26.661	0.00	0.00
ATOM	1525	HH2	TRP	X	98	33.753	43.897	26.905	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	31.691	43.601	27.482	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	31.762	44.109	28.433	0.00	0.00
ATOM	1528	CE3	TRP	X	98	30.401	43.102	27.099	0.00	0.00
ATOM	1529	HE3	TRP	X	98	29.563	43.118	27.781	0.00	0.00
ATOM	1530	CD2	TRP	X	98	30.293	42.514	25.861	0.00	0.00
ATOM	1531	C	TRP	X	98	25.454	41.597	26.018	0.00	0.00
ATOM	1532	O	TRP	X	98	25.228	41.285	27.193	0.00	0.00
ATOM	1533	N	THR	X	99	24.539	41.435	25.039	0.00	0.00
ATOM	1534	H	THR	X	99	24.759	41.636	24.074	0.00	0.00
ATOM	1535	CA	THR	X	99	23.190	40.985	25.338	0.00	0.00
ATOM	1536	HA	THR	X	99	23.174	40.312	26.195	0.00	0.00
ATOM	1537	CB	THR	X	99	22.293	42.236	25.672	0.00	0.00
ATOM	1538	HB	THR	X	99	22.693	42.741	26.551	0.00	0.00
ATOM	1539	CG2	THR	X	99	22.243	43.321	24.593	0.00	0.00
ATOM	1540	HG21	THR	X	99	21.608	44.150	24.904	0.00	0.00
ATOM	1541	HG22	THR	X	99	21.748	42.926	23.705	0.00	0.00
ATOM	1542	HG23	THR	X	99	23.213	43.789	24.423	0.00	0.00
ATOM	1543	OG1	THR	X	99	20.990	42.013	26.079	0.00	0.00
ATOM	1544	HG1	THR	X	99	20.691	42.738	26.633	0.00	0.00
ATOM	1545	C	THR	X	99	22.656	40.237	24.012	0.00	0.00
ATOM	1546	O	THR	X	99	22.996	40.639	22.870	0.00	0.00
ATOM	1547	N	PRO	X	100	21.993	39.069	24.134	0.00	0.00
ATOM	1548	CD	PRO	X	100	21.238	38.621	25.274	0.00	0.00
ATOM	1549	HD2	PRO	X	100	20.617	39.425	25.669	0.00	0.00
ATOM	1550	HD3	PRO	X	100	21.718	38.127	26.119	0.00	0.00
ATOM	1551	CG	PRO	X	100	20.269	37.575	24.668	0.00	0.00
ATOM	1552	HG2	PRO	X	100	19.455	38.074	24.142	0.00	0.00
ATOM	1553	HG3	PRO	X	100	19.825	36.972	25.460	0.00	0.00
ATOM	1554	CB	PRO	X	100	21.047	36.885	23.541	0.00	0.00
ATOM	1555	HB2	PRO	X	100	20.342	36.543	22.783	0.00	0.00
ATOM	1556	HB3	PRO	X	100	21.713	36.128	23.955	0.00	0.00
ATOM	1557	CA	PRO	X	100	21.853	38.042	23.003	0.00	0.00
ATOM	1558	HA	PRO	X	100	22.813	37.732	22.590	0.00	0.00
ATOM	1559	C	PRO	X	100	21.068	38.708	21.778	0.00	0.00
ATOM	1560	O	PRO	X	100	20.208	39.608	21.919	0.00	0.00
ATOM	1561	N	TYR	X	101	21.405	38.261	20.497	0.00	0.00
ATOM	1562	H	TYR	X	101	22.052	37.485	20.481	0.00	0.00
ATOM	1563	CA	TYR	X	101	20.671	38.745	19.259	0.00	0.00
ATOM	1564	HA	TYR	X	101	20.444	39.790	19.470	0.00	0.00
ATOM	1565	CB	TYR	X	101	21.732	38.751	18.185	0.00	0.00

ATOM	1566	HB2	TYR	X	101	22.581	39.305	18.585	0.00	0.00
ATOM	1567	HB3	TYR	X	101	21.955	37.700	18.003	0.00	0.00
ATOM	1568	CG	TYR	X	101	21.346	39.360	16.837	0.00	0.00
ATOM	1569	CD1	TYR	X	101	20.443	38.687	15.960	0.00	0.00
ATOM	1570	HD1	TYR	X	101	20.159	37.680	16.228	0.00	0.00
ATOM	1571	CE1	TYR	X	101	19.971	39.393	14.802	0.00	0.00
ATOM	1572	HE1	TYR	X	101	19.314	38.965	14.059	0.00	0.00
ATOM	1573	CZ	TYR	X	101	20.438	40.702	14.551	0.00	0.00
ATOM	1574	OH	TYR	X	101	19.986	41.369	13.417	0.00	0.00
ATOM	1575	HH	TYR	X	101	19.206	40.908	13.102	0.00	0.00
ATOM	1576	CE2	TYR	X	101	21.462	41.270	15.327	0.00	0.00
ATOM	1577	HE2	TYR	X	101	22.032	42.141	15.038	0.00	0.00
ATOM	1578	CD2	TYR	X	101	21.878	40.621	16.493	0.00	0.00
ATOM	1579	HD2	TYR	X	101	22.668	41.070	17.076	0.00	0.00
ATOM	1580	C	TYR	X	101	19.370	37.973	18.908	0.00	0.00
ATOM	1581	O	TYR	X	101	19.335	36.767	18.884	0.00	0.00
ATOM	1582	N	PRO	X	102	18.384	38.669	18.414	0.00	0.00
ATOM	1583	CD	PRO	X	102	17.150	38.005	18.018	0.00	0.00
ATOM	1584	HD2	PRO	X	102	16.712	37.532	18.897	0.00	0.00
ATOM	1585	HD3	PRO	X	102	17.476	37.372	17.192	0.00	0.00
ATOM	1586	CG	PRO	X	102	16.135	39.029	17.664	0.00	0.00
ATOM	1587	HG2	PRO	X	102	15.494	39.456	18.435	0.00	0.00
ATOM	1588	HG3	PRO	X	102	15.421	38.687	16.915	0.00	0.00
ATOM	1589	CB	PRO	X	102	17.013	40.278	17.355	0.00	0.00
ATOM	1590	HB2	PRO	X	102	16.529	41.248	17.465	0.00	0.00
ATOM	1591	HB3	PRO	X	102	17.332	40.123	16.325	0.00	0.00
ATOM	1592	CA	PRO	X	102	18.271	40.115	18.234	0.00	0.00
ATOM	1593	HA	PRO	X	102	19.193	40.482	17.783	0.00	0.00
ATOM	1594	C	PRO	X	102	18.021	40.818	19.665	0.00	0.00
ATOM	1595	O	PRO	X	102	17.280	40.271	20.435	0.00	0.00
ATOM	1596	N	ARG	X	103	18.552	42.083	19.849	0.00	0.00
ATOM	1597	H	ARG	X	103	19.033	42.490	19.060	0.00	0.00
ATOM	1598	CA	ARG	X	103	18.667	42.746	21.171	0.00	0.00
ATOM	1599	HA	ARG	X	103	19.478	42.297	21.744	0.00	0.00
ATOM	1600	CB	ARG	X	103	19.132	44.275	21.007	0.00	0.00
ATOM	1601	HB2	ARG	X	103	20.019	44.240	20.375	0.00	0.00
ATOM	1602	HB3	ARG	X	103	18.312	44.716	20.439	0.00	0.00
ATOM	1603	CG	ARG	X	103	19.521	45.009	22.309	0.00	0.00
ATOM	1604	HG2	ARG	X	103	18.760	44.723	23.036	0.00	0.00
ATOM	1605	HG3	ARG	X	103	20.499	44.678	22.659	0.00	0.00
ATOM	1606	CD	ARG	X	103	19.628	46.509	22.182	0.00	0.00
ATOM	1607	HD2	ARG	X	103	20.213	46.867	23.029	0.00	0.00
ATOM	1608	HD3	ARG	X	103	20.125	46.742	21.240	0.00	0.00
ATOM	1609	NE	ARG	X	103	18.272	47.064	22.243	0.00	0.00
ATOM	1610	HE	ARG	X	103	17.823	47.339	23.105	0.00	0.00
ATOM	1611	CZ	ARG	X	103	17.670	47.551	21.130	0.00	0.00
ATOM	1612	NH1	ARG	X	103	18.185	47.610	19.952	0.00	0.00
ATOM	1613	HH11	ARG	X	103	19.133	47.322	19.754	0.00	0.00
ATOM	1614	HH12	ARG	X	103	17.633	48.014	19.210	0.00	0.00
ATOM	1615	NH2	ARG	X	103	16.448	48.023	21.277	0.00	0.00
ATOM	1616	HH21	ARG	X	103	15.969	48.042	22.166	0.00	0.00
ATOM	1617	HH22	ARG	X	103	16.093	48.663	20.580	0.00	0.00
ATOM	1618	C	ARG	X	103	17.342	42.722	21.868	0.00	0.00
ATOM	1619	O	ARG	X	103	16.328	43.104	21.190	0.00	0.00
ATOM	1620	N	PRO	X	104	17.199	42.195	23.149	0.00	0.00
ATOM	1621	CD	PRO	X	104	18.121	41.192	23.703	0.00	0.00
ATOM	1622	HD2	PRO	X	104	19.116	41.564	23.950	0.00	0.00
ATOM	1623	HD3	PRO	X	104	18.327	40.374	23.013	0.00	0.00
ATOM	1624	CG	PRO	X	104	17.428	40.653	24.896	0.00	0.00
ATOM	1625	HG2	PRO	X	104	17.679	41.235	25.784	0.00	0.00
ATOM	1626	HG3	PRO	X	104	17.729	39.631	25.124	0.00	0.00
ATOM	1627	CB	PRO	X	104	15.922	40.759	24.558	0.00	0.00
ATOM	1628	HB2	PRO	X	104	15.283	40.838	25.438	0.00	0.00
ATOM	1629	HB3	PRO	X	104	15.609	39.888	23.981	0.00	0.00
ATOM	1630	CA	PRO	X	104	15.821	41.984	23.666	0.00	0.00
ATOM	1631	HA	PRO	X	104	15.164	41.767	22.824	0.00	0.00
ATOM	1632	C	PRO	X	104	15.250	43.208	24.385	0.00	0.00

ATOM	1633	O	PRO	X	104	16.020	44.136	24.603	0.00	0.00
ATOM	1634	N	THR	X	105	13.946	43.298	24.671	0.00	0.00
ATOM	1635	H	THR	X	105	13.407	42.479	24.430	0.00	0.00
ATOM	1636	CA	THR	X	105	13.245	44.447	25.198	0.00	0.00
ATOM	1637	HA	THR	X	105	13.857	45.320	24.971	0.00	0.00
ATOM	1638	CB	THR	X	105	11.969	44.467	24.381	0.00	0.00
ATOM	1639	HB	THR	X	105	11.323	45.249	24.782	0.00	0.00
ATOM	1640	CG2	THR	X	105	12.294	44.755	22.904	0.00	0.00
ATOM	1641	HG21	THR	X	105	11.396	45.060	22.366	0.00	0.00
ATOM	1642	HG22	THR	X	105	12.792	43.923	22.407	0.00	0.00
ATOM	1643	HG23	THR	X	105	12.988	45.594	22.939	0.00	0.00
ATOM	1644	OG1	THR	X	105	11.336	43.200	24.335	0.00	0.00
ATOM	1645	HG1	THR	X	105	10.503	43.236	24.810	0.00	0.00
ATOM	1646	C	THR	X	105	12.994	44.331	26.741	0.00	0.00
ATOM	1647	O	THR	X	105	13.273	45.228	27.568	0.00	0.00
ATOM	1648	N	SER	X	106	12.534	43.124	27.092	0.00	0.00
ATOM	1649	H	SER	X	106	12.440	42.422	26.372	0.00	0.00
ATOM	1650	CA	SER	X	106	11.924	42.784	28.377	0.00	0.00
ATOM	1651	HA	SER	X	106	11.382	43.621	28.817	0.00	0.00
ATOM	1652	CB	SER	X	106	10.804	41.794	28.099	0.00	0.00
ATOM	1653	HB2	SER	X	106	10.137	41.714	28.957	0.00	0.00
ATOM	1654	HB3	SER	X	106	10.117	42.018	27.282	0.00	0.00
ATOM	1655	OG	SER	X	106	11.184	40.487	27.891	0.00	0.00
ATOM	1656	HG	SER	X	106	11.277	40.103	28.766	0.00	0.00
ATOM	1657	C	SER	X	106	12.988	42.306	29.417	0.00	0.00
ATOM	1658	O	SER	X	106	13.807	41.441	29.118	0.00	0.00
ATOM	1659	N	PRO	X	107	12.916	42.721	30.639	0.00	0.00
ATOM	1660	CD	PRO	X	107	11.842	43.314	31.329	0.00	0.00
ATOM	1661	HD2	PRO	X	107	10.941	42.941	30.843	0.00	0.00
ATOM	1662	HD3	PRO	X	107	11.675	44.370	31.114	0.00	0.00
ATOM	1663	CG	PRO	X	107	11.918	43.013	32.787	0.00	0.00
ATOM	1664	HG2	PRO	X	107	11.434	42.040	32.867	0.00	0.00
ATOM	1665	HG3	PRO	X	107	11.443	43.784	33.394	0.00	0.00
ATOM	1666	CB	PRO	X	107	13.450	42.893	33.020	0.00	0.00
ATOM	1667	HB2	PRO	X	107	13.675	42.177	33.811	0.00	0.00
ATOM	1668	HB3	PRO	X	107	13.861	43.891	33.177	0.00	0.00
ATOM	1669	CA	PRO	X	107	13.967	42.453	31.661	0.00	0.00
ATOM	1670	HA	PRO	X	107	14.841	43.026	31.351	0.00	0.00
ATOM	1671	C	PRO	X	107	14.359	40.987	31.799	0.00	0.00
ATOM	1672	O	PRO	X	107	13.608	40.023	31.735	0.00	0.00
ATOM	1673	N	THR	X	108	15.676	40.840	32.036	0.00	0.00
ATOM	1674	H	THR	X	108	16.344	41.578	31.865	0.00	0.00
ATOM	1675	CA	THR	X	108	16.310	39.656	32.665	0.00	0.00
ATOM	1676	HA	THR	X	108	15.597	39.249	33.381	0.00	0.00
ATOM	1677	CB	THR	X	108	16.598	38.544	31.571	0.00	0.00
ATOM	1678	HB	THR	X	108	15.841	38.525	30.787	0.00	0.00
ATOM	1679	CG2	THR	X	108	17.924	38.612	30.920	0.00	0.00
ATOM	1680	HG21	THR	X	108	18.812	38.339	31.491	0.00	0.00
ATOM	1681	HG22	THR	X	108	18.114	39.601	30.503	0.00	0.00
ATOM	1682	HG23	THR	X	108	17.803	37.886	30.116	0.00	0.00
ATOM	1683	OG1	THR	X	108	16.470	37.263	32.076	0.00	0.00
ATOM	1684	HG1	THR	X	108	16.695	36.785	31.275	0.00	0.00
ATOM	1685	C	THR	X	108	17.576	40.145	33.354	0.00	0.00
ATOM	1686	O	THR	X	108	18.099	41.166	32.840	0.00	0.00
ATOM	1687	N	PRO	X	109	18.052	39.527	34.490	0.00	0.00
ATOM	1688	CD	PRO	X	109	17.695	38.212	34.859	0.00	0.00
ATOM	1689	HD2	PRO	X	109	18.175	37.516	34.172	0.00	0.00
ATOM	1690	HD3	PRO	X	109	16.618	38.070	34.763	0.00	0.00
ATOM	1691	CG	PRO	X	109	18.159	38.009	36.266	0.00	0.00
ATOM	1692	HG2	PRO	X	109	18.197	36.952	36.530	0.00	0.00
ATOM	1693	HG3	PRO	X	109	17.470	38.467	36.976	0.00	0.00
ATOM	1694	CB	PRO	X	109	19.427	38.783	36.238	0.00	0.00
ATOM	1695	HB2	PRO	X	109	20.288	38.233	35.860	0.00	0.00
ATOM	1696	HB3	PRO	X	109	19.603	39.112	37.262	0.00	0.00
ATOM	1697	CA	PRO	X	109	19.120	39.942	35.330	0.00	0.00
ATOM	1698	HA	PRO	X	109	18.694	40.766	35.903	0.00	0.00
ATOM	1699	C	PRO	X	109	20.336	40.463	34.617	0.00	0.00

ATOM	1700	O	PRO	X	109	20.617	40.186	33.496	0.00	0.00
ATOM	1701	N	VAL	X	110	21.262	41.074	35.361	0.00	0.00
ATOM	1702	H	VAL	X	110	20.943	41.212	36.310	0.00	0.00
ATOM	1703	CA	VAL	X	110	22.447	41.800	34.862	0.00	0.00
ATOM	1704	HA	VAL	X	110	22.572	41.491	33.824	0.00	0.00
ATOM	1705	CB	VAL	X	110	22.170	43.248	35.004	0.00	0.00
ATOM	1706	HB	VAL	X	110	21.489	43.489	35.820	0.00	0.00
ATOM	1707	CG1	VAL	X	110	23.323	44.203	34.957	0.00	0.00
ATOM	1708	HG11	VAL	X	110	23.799	44.331	33.985	0.00	0.00
ATOM	1709	HG12	VAL	X	110	22.949	45.220	35.070	0.00	0.00
ATOM	1710	HG13	VAL	X	110	24.009	43.961	35.769	0.00	0.00
ATOM	1711	CG2	VAL	X	110	21.375	43.788	33.771	0.00	0.00
ATOM	1712	HG21	VAL	X	110	20.472	43.179	33.814	0.00	0.00
ATOM	1713	HG22	VAL	X	110	21.844	43.658	32.796	0.00	0.00
ATOM	1714	HG23	VAL	X	110	21.084	44.827	33.926	0.00	0.00
ATOM	1715	C	VAL	X	110	23.703	41.381	35.601	0.00	0.00
ATOM	1716	O	VAL	X	110	23.750	41.189	36.849	0.00	0.00
ATOM	1717	N	LEU	X	111	24.814	41.204	34.866	0.00	0.00
ATOM	1718	H	LEU	X	111	24.731	41.513	33.908	0.00	0.00
ATOM	1719	CA	LEU	X	111	26.157	40.904	35.474	0.00	0.00
ATOM	1720	HA	LEU	X	111	26.050	40.794	36.553	0.00	0.00
ATOM	1721	CB	LEU	X	111	26.538	39.519	35.068	0.00	0.00
ATOM	1722	HB2	LEU	X	111	26.176	39.370	34.051	0.00	0.00
ATOM	1723	HB3	LEU	X	111	27.625	39.456	35.036	0.00	0.00
ATOM	1724	CG	LEU	X	111	25.960	38.407	35.870	0.00	0.00
ATOM	1725	HG	LEU	X	111	24.901	38.585	36.059	0.00	0.00
ATOM	1726	CD1	LEU	X	111	25.933	37.106	35.068	0.00	0.00
ATOM	1727	HD11	LEU	X	111	26.830	36.695	34.605	0.00	0.00
ATOM	1728	HD12	LEU	X	111	25.194	37.259	34.282	0.00	0.00
ATOM	1729	HD13	LEU	X	111	25.523	36.310	35.690	0.00	0.00
ATOM	1730	CD2	LEU	X	111	26.717	38.082	37.161	0.00	0.00
ATOM	1731	HD21	LEU	X	111	26.282	37.319	37.808	0.00	0.00
ATOM	1732	HD22	LEU	X	111	27.628	37.624	36.774	0.00	0.00
ATOM	1733	HD23	LEU	X	111	26.977	38.934	37.789	0.00	0.00
ATOM	1734	C	LEU	X	111	27.097	42.007	35.098	0.00	0.00
ATOM	1735	O	LEU	X	111	27.366	42.307	33.943	0.00	0.00
ATOM	1736	N	VAL	X	112	27.504	42.723	36.163	0.00	0.00
ATOM	1737	H	VAL	X	112	27.121	42.543	37.081	0.00	0.00
ATOM	1738	CA	VAL	X	112	28.452	43.808	36.047	0.00	0.00
ATOM	1739	HA	VAL	X	112	28.437	44.125	35.004	0.00	0.00
ATOM	1740	CB	VAL	X	112	28.149	45.066	36.986	0.00	0.00
ATOM	1741	HB	VAL	X	112	28.165	44.736	38.024	0.00	0.00
ATOM	1742	CG1	VAL	X	112	29.191	46.172	36.641	0.00	0.00
ATOM	1743	HG11	VAL	X	112	28.882	47.084	37.150	0.00	0.00
ATOM	1744	HG12	VAL	X	112	30.076	45.899	37.215	0.00	0.00
ATOM	1745	HG13	VAL	X	112	29.500	46.206	35.596	0.00	0.00
ATOM	1746	CG2	VAL	X	112	26.731	45.646	36.574	0.00	0.00
ATOM	1747	HG21	VAL	X	112	26.652	46.682	36.905	0.00	0.00
ATOM	1748	HG22	VAL	X	112	25.871	45.000	36.749	0.00	0.00
ATOM	1749	HG23	VAL	X	112	26.879	45.570	35.497	0.00	0.00
ATOM	1750	C	VAL	X	112	29.800	43.220	36.493	0.00	0.00
ATOM	1751	O	VAL	X	112	30.150	42.931	37.650	0.00	0.00
ATOM	1752	N	TRP	X	113	30.749	43.186	35.530	0.00	0.00
ATOM	1753	H	TRP	X	113	30.562	43.470	34.579	0.00	0.00
ATOM	1754	CA	TRP	X	113	32.094	42.704	35.769	0.00	0.00
ATOM	1755	HA	TRP	X	113	32.045	42.032	36.626	0.00	0.00
ATOM	1756	CB	TRP	X	113	32.765	42.149	34.479	0.00	0.00
ATOM	1757	HB2	TRP	X	113	32.181	41.332	34.056	0.00	0.00
ATOM	1758	HB3	TRP	X	113	32.739	42.871	33.663	0.00	0.00
ATOM	1759	CG	TRP	X	113	34.112	41.645	34.608	0.00	0.00
ATOM	1760	CD1	TRP	X	113	35.180	42.046	33.850	0.00	0.00
ATOM	1761	HD1	TRP	X	113	35.156	42.761	33.041	0.00	0.00
ATOM	1762	NE1	TRP	X	113	36.267	41.354	34.288	0.00	0.00
ATOM	1763	HE1	TRP	X	113	37.177	41.507	33.878	0.00	0.00
ATOM	1764	CE2	TRP	X	113	35.991	40.509	35.224	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	36.766	39.629	35.986	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	37.843	39.654	35.912	0.00	0.00

ATOM	1767	CH2	TRP	X	113	36.167	38.718	36.840	0.00	0.00
ATOM	1768	HH2	TRP	X	113	36.781	37.999	37.362	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	34.737	38.808	37.112	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	34.228	38.139	37.790	0.00	0.00
ATOM	1771	CE3	TRP	X	113	34.009	39.813	36.397	0.00	0.00
ATOM	1772	HE3	TRP	X	113	32.932	39.735	36.421	0.00	0.00
ATOM	1773	CD2	TRP	X	113	34.617	40.659	35.474	0.00	0.00
ATOM	1774	C	TRP	X	113	33.051	43.771	36.370	0.00	0.00
ATOM	1775	O	TRP	X	113	32.875	44.907	35.905	0.00	0.00
ATOM	1776	N	ILE	X	114	33.938	43.553	37.359	0.00	0.00
ATOM	1777	H	ILE	X	114	33.788	42.661	37.807	0.00	0.00
ATOM	1778	CA	ILE	X	114	35.092	44.340	37.770	0.00	0.00
ATOM	1779	HA	ILE	X	114	35.312	45.165	37.093	0.00	0.00
ATOM	1780	CB	ILE	X	114	34.851	44.901	39.268	0.00	0.00
ATOM	1781	HB	ILE	X	114	34.827	44.003	39.886	0.00	0.00
ATOM	1782	CG2	ILE	X	114	35.970	45.930	39.499	0.00	0.00
ATOM	1783	HG21	ILE	X	114	36.865	45.307	39.507	0.00	0.00
ATOM	1784	HG22	ILE	X	114	36.059	46.209	40.549	0.00	0.00
ATOM	1785	HG23	ILE	X	114	35.944	46.790	38.830	0.00	0.00
ATOM	1786	CG1	ILE	X	114	33.545	45.729	39.346	0.00	0.00
ATOM	1787	HG12	ILE	X	114	33.448	46.382	38.479	0.00	0.00
ATOM	1788	HG13	ILE	X	114	32.711	45.036	39.455	0.00	0.00
ATOM	1789	CD1	ILE	X	114	33.400	46.617	40.552	0.00	0.00
ATOM	1790	HD11	ILE	X	114	32.345	46.892	40.551	0.00	0.00
ATOM	1791	HD12	ILE	X	114	33.897	47.581	40.445	0.00	0.00
ATOM	1792	HD13	ILE	X	114	33.716	46.045	41.425	0.00	0.00
ATOM	1793	C	ILE	X	114	36.305	43.421	37.863	0.00	0.00
ATOM	1794	O	ILE	X	114	36.161	42.474	38.559	0.00	0.00
ATOM	1795	N	TYR	X	115	37.366	43.793	37.124	0.00	0.00
ATOM	1796	H	TYR	X	115	37.382	44.725	36.736	0.00	0.00
ATOM	1797	CA	TYR	X	115	38.611	42.964	37.135	0.00	0.00
ATOM	1798	HA	TYR	X	115	38.294	41.946	37.363	0.00	0.00
ATOM	1799	CB	TYR	X	115	39.252	43.031	35.726	0.00	0.00
ATOM	1800	HB2	TYR	X	115	40.277	42.717	35.924	0.00	0.00
ATOM	1801	HB3	TYR	X	115	38.734	42.350	35.051	0.00	0.00
ATOM	1802	CG	TYR	X	115	39.179	44.318	34.942	0.00	0.00
ATOM	1803	CD1	TYR	X	115	40.131	45.299	35.252	0.00	0.00
ATOM	1804	HD1	TYR	X	115	40.871	44.989	35.974	0.00	0.00
ATOM	1805	CE1	TYR	X	115	40.096	46.608	34.700	0.00	0.00
ATOM	1806	HE1	TYR	X	115	40.848	47.322	35.003	0.00	0.00
ATOM	1807	CZ	TYR	X	115	38.961	46.950	33.875	0.00	0.00
ATOM	1808	OH	TYR	X	115	38.711	48.216	33.514	0.00	0.00
ATOM	1809	HH	TYR	X	115	37.796	48.347	33.254	0.00	0.00
ATOM	1810	CE2	TYR	X	115	38.002	45.919	33.577	0.00	0.00
ATOM	1811	HE2	TYR	X	115	37.120	46.193	33.019	0.00	0.00
ATOM	1812	CD2	TYR	X	115	38.176	44.628	34.063	0.00	0.00
ATOM	1813	HD2	TYR	X	115	37.392	43.945	33.773	0.00	0.00
ATOM	1814	C	TYR	X	115	39.616	43.345	38.239	0.00	0.00
ATOM	1815	O	TYR	X	115	39.554	44.420	38.830	0.00	0.00
ATOM	1816	N	GLY	X	116	40.599	42.484	38.427	0.00	0.00
ATOM	1817	H	GLY	X	116	40.620	41.643	37.868	0.00	0.00
ATOM	1818	CA	GLY	X	116	41.732	42.626	39.292	0.00	0.00
ATOM	1819	HA2	GLY	X	116	41.409	43.008	40.260	0.00	0.00
ATOM	1820	HA3	GLY	X	116	42.174	41.653	39.504	0.00	0.00
ATOM	1821	C	GLY	X	116	42.802	43.591	38.748	0.00	0.00
ATOM	1822	O	GLY	X	116	42.623	44.246	37.737	0.00	0.00
ATOM	1823	N	GLY	X	117	43.940	43.558	39.422	0.00	0.00
ATOM	1824	H	GLY	X	117	43.914	43.052	40.296	0.00	0.00
ATOM	1825	CA	GLY	X	117	45.185	44.179	38.937	0.00	0.00
ATOM	1826	HA2	GLY	X	117	45.798	43.391	38.502	0.00	0.00
ATOM	1827	HA3	GLY	X	117	45.016	44.934	38.169	0.00	0.00
ATOM	1828	C	GLY	X	117	45.995	44.901	40.003	0.00	0.00
ATOM	1829	O	GLY	X	117	46.960	45.601	39.676	0.00	0.00
ATOM	1830	N	GLY	X	118	45.752	44.570	41.257	0.00	0.00
ATOM	1831	H	GLY	X	118	45.072	43.878	41.538	0.00	0.00
ATOM	1832	CA	GLY	X	118	46.378	45.223	42.390	0.00	0.00
ATOM	1833	HA2	GLY	X	118	46.126	44.737	43.333	0.00	0.00

ATOM	1834	HA3	GLY	X	118	47.454	45.192	42.221	0.00	0.00
ATOM	1835	C	GLY	X	118	45.909	46.714	42.579	0.00	0.00
ATOM	1836	O	GLY	X	118	46.479	47.324	43.457	0.00	0.00
ATOM	1837	N	PHE	X	119	44.948	47.192	41.819	0.00	0.00
ATOM	1838	H	PHE	X	119	44.453	46.510	41.263	0.00	0.00
ATOM	1839	CA	PHE	X	119	44.651	48.626	41.550	0.00	0.00
ATOM	1840	HA	PHE	X	119	43.825	48.623	40.838	0.00	0.00
ATOM	1841	CB	PHE	X	119	44.236	49.305	42.831	0.00	0.00
ATOM	1842	HB2	PHE	X	119	45.135	49.272	43.446	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.166	50.380	42.664	0.00	0.00
ATOM	1844	CG	PHE	X	119	43.106	48.658	43.619	0.00	0.00
ATOM	1845	CD1	PHE	X	119	41.776	48.989	43.304	0.00	0.00
ATOM	1846	HD1	PHE	X	119	41.565	49.535	42.397	0.00	0.00
ATOM	1847	CE1	PHE	X	119	40.728	48.427	44.047	0.00	0.00
ATOM	1848	HE1	PHE	X	119	39.724	48.682	43.742	0.00	0.00
ATOM	1849	CZ	PHE	X	119	41.055	47.728	45.196	0.00	0.00
ATOM	1850	HZ	PHE	X	119	40.323	47.493	45.954	0.00	0.00
ATOM	1851	CE2	PHE	X	119	42.391	47.368	45.523	0.00	0.00
ATOM	1852	HE2	PHE	X	119	42.659	46.894	46.455	0.00	0.00
ATOM	1853	CD2	PHE	X	119	43.419	47.848	44.699	0.00	0.00
ATOM	1854	HD2	PHE	X	119	44.436	47.675	45.020	0.00	0.00
ATOM	1855	C	PHE	X	119	45.721	49.423	40.817	0.00	0.00
ATOM	1856	O	PHE	X	119	45.480	50.509	40.417	0.00	0.00
ATOM	1857	N	TYR	X	120	46.867	48.838	40.581	0.00	0.00
ATOM	1858	H	TYR	X	120	47.084	47.941	40.991	0.00	0.00
ATOM	1859	CA	TYR	X	120	47.952	49.471	39.740	0.00	0.00
ATOM	1860	HA	TYR	X	120	47.952	50.550	39.890	0.00	0.00
ATOM	1861	CB	TYR	X	120	49.294	48.948	40.242	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.018	49.614	39.772	0.00	0.00
ATOM	1863	HB3	TYR	X	120	49.443	48.990	41.321	0.00	0.00
ATOM	1864	CG	TYR	X	120	49.615	47.525	39.969	0.00	0.00
ATOM	1865	CD1	TYR	X	120	50.213	47.176	38.727	0.00	0.00
ATOM	1866	HD1	TYR	X	120	50.386	47.880	37.926	0.00	0.00
ATOM	1867	CE1	TYR	X	120	50.677	45.890	38.446	0.00	0.00
ATOM	1868	HE1	TYR	X	120	51.180	45.690	37.511	0.00	0.00
ATOM	1869	CZ	TYR	X	120	50.558	44.894	39.435	0.00	0.00
ATOM	1870	OH	TYR	X	120	50.824	43.611	39.136	0.00	0.00
ATOM	1871	HH	TYR	X	120	51.402	43.572	38.370	0.00	0.00
ATOM	1872	CE2	TYR	X	120	49.936	45.137	40.713	0.00	0.00
ATOM	1873	HE2	TYR	X	120	49.767	44.266	41.328	0.00	0.00
ATOM	1874	CD2	TYR	X	120	49.578	46.514	40.920	0.00	0.00
ATOM	1875	HD2	TYR	X	120	49.115	46.753	41.866	0.00	0.00
ATOM	1876	C	TYR	X	120	47.755	49.189	38.240	0.00	0.00
ATOM	1877	O	TYR	X	120	48.575	49.739	37.420	0.00	0.00
ATOM	1878	N	SER	X	121	46.876	48.302	37.886	0.00	0.00
ATOM	1879	H	SER	X	121	46.253	47.899	38.571	0.00	0.00
ATOM	1880	CA	SER	X	121	46.665	47.859	36.461	0.00	0.00
ATOM	1881	HA	SER	X	121	46.565	48.755	35.849	0.00	0.00
ATOM	1882	CB	SER	X	121	47.766	46.828	36.010	0.00	0.00
ATOM	1883	HB2	SER	X	121	47.598	46.645	34.948	0.00	0.00
ATOM	1884	HB3	SER	X	121	48.693	47.402	36.011	0.00	0.00
ATOM	1885	OG	SER	X	121	47.816	45.712	36.854	0.00	0.00
ATOM	1886	HG	SER	X	121	47.788	45.953	37.783	0.00	0.00
ATOM	1887	C	SER	X	121	45.256	47.087	36.236	0.00	0.00
ATOM	1888	O	SER	X	121	44.521	46.839	37.179	0.00	0.00
ATOM	1889	N	GLY	X	122	44.918	46.865	34.913	0.00	0.00
ATOM	1890	H	GLY	X	122	45.658	47.104	34.268	0.00	0.00
ATOM	1891	CA	GLY	X	122	43.701	46.367	34.341	0.00	0.00
ATOM	1892	HA2	GLY	X	122	43.974	45.364	34.014	0.00	0.00
ATOM	1893	HA3	GLY	X	122	43.001	46.318	35.175	0.00	0.00
ATOM	1894	C	GLY	X	122	43.205	46.996	33.071	0.00	0.00
ATOM	1895	O	GLY	X	122	43.472	48.141	32.825	0.00	0.00
ATOM	1896	N	ALA	X	123	42.324	46.343	32.303	0.00	0.00
ATOM	1897	H	ALA	X	123	42.167	45.401	32.631	0.00	0.00
ATOM	1898	CA	ALA	X	123	41.707	46.913	31.077	0.00	0.00
ATOM	1899	HA	ALA	X	123	41.401	47.931	31.318	0.00	0.00
ATOM	1900	CB	ALA	X	123	42.728	46.857	29.987	0.00	0.00

ATOM	1901	HB1	ALA	X	123	42.142	46.951	29.073	0.00	0.00
ATOM	1902	HB2	ALA	X	123	43.314	45.938	30.001	0.00	0.00
ATOM	1903	HB3	ALA	X	123	43.481	47.636	30.111	0.00	0.00
ATOM	1904	C	ALA	X	123	40.404	46.193	30.655	0.00	0.00
ATOM	1905	O	ALA	X	123	40.313	44.961	30.740	0.00	0.00
ATOM	1906	N	SER	X	124	39.421	46.955	30.062	0.00	0.00
ATOM	1907	H	SER	X	124	39.445	47.959	29.959	0.00	0.00
ATOM	1908	CA	SER	X	124	38.177	46.192	29.724	0.00	0.00
ATOM	1909	HA	SER	X	124	37.950	45.373	30.406	0.00	0.00
ATOM	1910	CB	SER	X	124	36.984	47.180	29.748	0.00	0.00
ATOM	1911	HB2	SER	X	124	36.181	46.560	29.350	0.00	0.00
ATOM	1912	HB3	SER	X	124	36.909	47.601	30.751	0.00	0.00
ATOM	1913	OG	SER	X	124	37.074	48.291	28.869	0.00	0.00
ATOM	1914	HG	SER	X	124	37.472	48.905	29.490	0.00	0.00
ATOM	1915	C	SER	X	124	38.247	45.488	28.345	0.00	0.00
ATOM	1916	O	SER	X	124	37.610	44.495	28.137	0.00	0.00
ATOM	1917	N	SER	X	125	39.106	45.928	27.454	0.00	0.00
ATOM	1918	H	SER	X	125	39.640	46.766	27.634	0.00	0.00
ATOM	1919	CA	SER	X	125	39.298	45.371	26.106	0.00	0.00
ATOM	1920	HA	SER	X	125	38.289	45.182	25.739	0.00	0.00
ATOM	1921	CB	SER	X	125	40.047	46.424	25.358	0.00	0.00
ATOM	1922	HB2	SER	X	125	40.351	46.081	24.369	0.00	0.00
ATOM	1923	HB3	SER	X	125	39.502	47.350	25.170	0.00	0.00
ATOM	1924	OG	SER	X	125	41.204	46.758	26.128	0.00	0.00
ATOM	1925	HG	SER	X	125	41.927	46.180	25.876	0.00	0.00
ATOM	1926	C	SER	X	125	40.083	44.044	25.901	0.00	0.00
ATOM	1927	O	SER	X	125	40.296	43.646	24.738	0.00	0.00
ATOM	1928	N	LEU	X	126	40.495	43.478	27.044	0.00	0.00
ATOM	1929	H	LEU	X	126	39.987	43.802	27.855	0.00	0.00
ATOM	1930	CA	LEU	X	126	41.203	42.226	27.171	0.00	0.00
ATOM	1931	HA	LEU	X	126	42.075	42.343	26.528	0.00	0.00
ATOM	1932	CB	LEU	X	126	41.741	41.968	28.569	0.00	0.00
ATOM	1933	HB2	LEU	X	126	40.895	41.804	29.236	0.00	0.00
ATOM	1934	HB3	LEU	X	126	42.361	41.071	28.554	0.00	0.00
ATOM	1935	CG	LEU	X	126	42.649	43.032	29.113	0.00	0.00
ATOM	1936	HG	LEU	X	126	42.068	43.933	28.918	0.00	0.00
ATOM	1937	CD1	LEU	X	126	42.933	42.837	30.613	0.00	0.00
ATOM	1938	HD11	LEU	X	126	43.320	41.822	30.708	0.00	0.00
ATOM	1939	HD12	LEU	X	126	42.055	42.946	31.250	0.00	0.00
ATOM	1940	HD13	LEU	X	126	43.666	43.567	30.955	0.00	0.00
ATOM	1941	CD2	LEU	X	126	44.003	43.262	28.416	0.00	0.00
ATOM	1942	HD21	LEU	X	126	43.838	43.469	27.358	0.00	0.00
ATOM	1943	HD22	LEU	X	126	44.413	44.217	28.744	0.00	0.00
ATOM	1944	HD23	LEU	X	126	44.576	42.354	28.606	0.00	0.00
ATOM	1945	C	LEU	X	126	40.317	41.098	26.574	0.00	0.00
ATOM	1946	O	LEU	X	126	39.121	40.915	26.853	0.00	0.00
ATOM	1947	N	ASP	X	127	40.999	40.141	25.931	0.00	0.00
ATOM	1948	H	ASP	X	127	42.005	40.190	25.853	0.00	0.00
ATOM	1949	CA	ASP	X	127	40.303	38.991	25.333	0.00	0.00
ATOM	1950	HA	ASP	X	127	39.539	39.398	24.671	0.00	0.00
ATOM	1951	CB	ASP	X	127	41.395	38.343	24.347	0.00	0.00
ATOM	1952	HB2	ASP	X	127	41.312	38.902	23.415	0.00	0.00
ATOM	1953	HB3	ASP	X	127	42.405	38.575	24.683	0.00	0.00
ATOM	1954	CG	ASP	X	127	41.002	36.921	24.024	0.00	0.00
ATOM	1955	OD1	ASP	X	127	41.627	36.061	24.686	0.00	0.00
ATOM	1956	OD2	ASP	X	127	40.150	36.747	23.119	0.00	0.00
ATOM	1957	C	ASP	X	127	39.713	38.006	26.312	0.00	0.00
ATOM	1958	O	ASP	X	127	38.805	37.290	25.958	0.00	0.00
ATOM	1959	N	VAL	X	128	40.314	37.885	27.509	0.00	0.00
ATOM	1960	H	VAL	X	128	41.078	38.522	27.684	0.00	0.00
ATOM	1961	CA	VAL	X	128	39.743	36.898	28.499	0.00	0.00
ATOM	1962	HA	VAL	X	128	39.341	36.026	27.982	0.00	0.00
ATOM	1963	CB	VAL	X	128	40.830	36.427	29.503	0.00	0.00
ATOM	1964	HB	VAL	X	128	41.719	36.087	28.971	0.00	0.00
ATOM	1965	CG1	VAL	X	128	41.258	37.631	30.348	0.00	0.00
ATOM	1966	HG11	VAL	X	128	41.549	38.475	29.722	0.00	0.00
ATOM	1967	HG12	VAL	X	128	40.481	37.979	31.029	0.00	0.00

ATOM	1968	HG13	VAL	X	128	42.194	37.390	30.852	0.00	0.00
ATOM	1969	CG2	VAL	X	128	40.412	35.265	30.472	0.00	0.00
ATOM	1970	HG21	VAL	X	128	41.273	34.910	31.039	0.00	0.00
ATOM	1971	HG22	VAL	X	128	39.957	34.503	29.838	0.00	0.00
ATOM	1972	HG23	VAL	X	128	39.802	35.667	31.281	0.00	0.00
ATOM	1973	C	VAL	X	128	38.523	37.478	29.273	0.00	0.00
ATOM	1974	O	VAL	X	128	37.811	36.703	29.932	0.00	0.00
ATOM	1975	N	TYR	X	129	38.151	38.787	29.177	0.00	0.00
ATOM	1976	H	TYR	X	129	38.700	39.358	28.550	0.00	0.00
ATOM	1977	CA	TYR	X	129	36.899	39.245	29.740	0.00	0.00
ATOM	1978	HA	TYR	X	129	36.444	38.476	30.364	0.00	0.00
ATOM	1979	CB	TYR	X	129	37.201	40.568	30.523	0.00	0.00
ATOM	1980	HB2	TYR	X	129	37.545	41.234	29.731	0.00	0.00
ATOM	1981	HB3	TYR	X	129	36.306	40.918	31.036	0.00	0.00
ATOM	1982	CG	TYR	X	129	38.241	40.527	31.695	0.00	0.00
ATOM	1983	CD1	TYR	X	129	38.330	39.415	32.568	0.00	0.00
ATOM	1984	HD1	TYR	X	129	37.689	38.548	32.502	0.00	0.00
ATOM	1985	CE1	TYR	X	129	39.293	39.492	33.604	0.00	0.00
ATOM	1986	HE1	TYR	X	129	39.296	38.671	34.306	0.00	0.00
ATOM	1987	CZ	TYR	X	129	40.168	40.592	33.738	0.00	0.00
ATOM	1988	OH	TYR	X	129	41.134	40.743	34.664	0.00	0.00
ATOM	1989	HH	TYR	X	129	41.011	40.147	35.407	0.00	0.00
ATOM	1990	CE2	TYR	X	129	40.091	41.656	32.844	0.00	0.00
ATOM	1991	HE2	TYR	X	129	40.790	42.474	32.942	0.00	0.00
ATOM	1992	CD2	TYR	X	129	39.061	41.641	31.852	0.00	0.00
ATOM	1993	HD2	TYR	X	129	38.920	42.490	31.200	0.00	0.00
ATOM	1994	C	TYR	X	129	35.798	39.460	28.711	0.00	0.00
ATOM	1995	O	TYR	X	129	35.013	40.461	28.785	0.00	0.00
ATOM	1996	N	ASP	X	130	35.746	38.717	27.615	0.00	0.00
ATOM	1997	H	ASP	X	130	36.345	37.905	27.661	0.00	0.00
ATOM	1998	CA	ASP	X	130	34.787	38.893	26.556	0.00	0.00
ATOM	1999	HA	ASP	X	130	34.869	39.959	26.347	0.00	0.00
ATOM	2000	CB	ASP	X	130	35.317	38.123	25.293	0.00	0.00
ATOM	2001	HB2	ASP	X	130	36.376	38.283	25.095	0.00	0.00
ATOM	2002	HB3	ASP	X	130	34.979	37.093	25.409	0.00	0.00
ATOM	2003	CG	ASP	X	130	34.416	38.776	24.152	0.00	0.00
ATOM	2004	OD1	ASP	X	130	33.257	38.383	23.908	0.00	0.00
ATOM	2005	OD2	ASP	X	130	35.035	39.613	23.406	0.00	0.00
ATOM	2006	C	ASP	X	130	33.323	38.366	26.849	0.00	0.00
ATOM	2007	O	ASP	X	130	33.192	37.275	27.361	0.00	0.00
ATOM	2008	N	GLY	X	131	32.180	39.083	26.757	0.00	0.00
ATOM	2009	H	GLY	X	131	32.296	40.008	26.367	0.00	0.00
ATOM	2010	CA	GLY	X	131	30.807	38.746	27.176	0.00	0.00
ATOM	2011	HA2	GLY	X	131	30.794	38.725	28.266	0.00	0.00
ATOM	2012	HA3	GLY	X	131	30.124	39.579	27.014	0.00	0.00
ATOM	2013	C	GLY	X	131	30.134	37.669	26.386	0.00	0.00
ATOM	2014	O	GLY	X	131	29.225	37.094	26.937	0.00	0.00
ATOM	2015	N	ARG	X	132	30.521	37.432	25.097	0.00	0.00
ATOM	2016	H	ARG	X	132	31.291	38.005	24.782	0.00	0.00
ATOM	2017	CA	ARG	X	132	29.751	36.705	24.115	0.00	0.00
ATOM	2018	HA	ARG	X	132	28.818	37.222	23.890	0.00	0.00
ATOM	2019	CB	ARG	X	132	30.360	36.640	22.727	0.00	0.00
ATOM	2020	HB2	ARG	X	132	29.556	36.525	22.000	0.00	0.00
ATOM	2021	HB3	ARG	X	132	30.682	37.669	22.567	0.00	0.00
ATOM	2022	CG	ARG	X	132	31.532	35.640	22.516	0.00	0.00
ATOM	2023	HG2	ARG	X	132	32.163	35.691	23.403	0.00	0.00
ATOM	2024	HG3	ARG	X	132	31.143	34.622	22.505	0.00	0.00
ATOM	2025	CD	ARG	X	132	32.379	35.851	21.221	0.00	0.00
ATOM	2026	HD2	ARG	X	132	33.142	35.095	21.037	0.00	0.00
ATOM	2027	HD3	ARG	X	132	31.746	35.849	20.333	0.00	0.00
ATOM	2028	NE	ARG	X	132	33.042	37.187	21.318	0.00	0.00
ATOM	2029	HE	ARG	X	132	33.010	37.636	22.222	0.00	0.00
ATOM	2030	CZ	ARG	X	132	33.943	37.706	20.498	0.00	0.00
ATOM	2031	NH1	ARG	X	132	34.001	37.434	19.218	0.00	0.00
ATOM	2032	HH11	ARG	X	132	33.279	36.825	18.861	0.00	0.00
ATOM	2033	HH12	ARG	X	132	34.781	37.752	18.660	0.00	0.00
ATOM	2034	NH2	ARG	X	132	34.704	38.662	20.826	0.00	0.00

ATOM	2035	HH21	ARG	X	132	34.684	38.926	21.801	0.00	0.00
ATOM	2036	HH22	ARG	X	132	35.270	39.117	20.124	0.00	0.00
ATOM	2037	C	ARG	X	132	29.431	35.240	24.534	0.00	0.00
ATOM	2038	O	ARG	X	132	28.321	34.836	24.240	0.00	0.00
ATOM	2039	N	PHE	X	133	30.319	34.540	25.223	0.00	0.00
ATOM	2040	H	PHE	X	133	31.147	34.988	25.590	0.00	0.00
ATOM	2041	CA	PHE	X	133	30.152	33.129	25.513	0.00	0.00
ATOM	2042	HA	PHE	X	133	29.622	32.700	24.662	0.00	0.00
ATOM	2043	CB	PHE	X	133	31.576	32.490	25.611	0.00	0.00
ATOM	2044	HB2	PHE	X	133	31.993	32.916	26.524	0.00	0.00
ATOM	2045	HB3	PHE	X	133	31.496	31.403	25.627	0.00	0.00
ATOM	2046	CG	PHE	X	133	32.578	32.725	24.442	0.00	0.00
ATOM	2047	CD1	PHE	X	133	33.561	33.688	24.548	0.00	0.00
ATOM	2048	HD1	PHE	X	133	33.623	34.256	25.465	0.00	0.00
ATOM	2049	CE1	PHE	X	133	34.447	33.901	23.463	0.00	0.00
ATOM	2050	HE1	PHE	X	133	35.139	34.731	23.456	0.00	0.00
ATOM	2051	CZ	PHE	X	133	34.223	33.118	22.290	0.00	0.00
ATOM	2052	HZ	PHE	X	133	34.707	33.505	21.406	0.00	0.00
ATOM	2053	CE2	PHE	X	133	33.174	32.150	22.176	0.00	0.00
ATOM	2054	HE2	PHE	X	133	32.896	31.612	21.282	0.00	0.00
ATOM	2055	CD2	PHE	X	133	32.347	32.007	23.300	0.00	0.00
ATOM	2056	HD2	PHE	X	133	31.498	31.343	23.367	0.00	0.00
ATOM	2057	C	PHE	X	133	29.217	32.892	26.729	0.00	0.00
ATOM	2058	O	PHE	X	133	28.233	32.161	26.682	0.00	0.00
ATOM	2059	N	LEU	X	134	29.351	33.754	27.669	0.00	0.00
ATOM	2060	H	LEU	X	134	30.071	34.452	27.545	0.00	0.00
ATOM	2061	CA	LEU	X	134	28.553	33.880	28.854	0.00	0.00
ATOM	2062	HA	LEU	X	134	28.564	32.932	29.391	0.00	0.00
ATOM	2063	CB	LEU	X	134	29.134	34.965	29.734	0.00	0.00
ATOM	2064	HB2	LEU	X	134	30.145	34.581	29.871	0.00	0.00
ATOM	2065	HB3	LEU	X	134	29.165	35.846	29.094	0.00	0.00
ATOM	2066	CG	LEU	X	134	28.451	35.175	31.119	0.00	0.00
ATOM	2067	HG	LEU	X	134	27.542	35.747	30.931	0.00	0.00
ATOM	2068	CD1	LEU	X	134	28.154	33.869	31.923	0.00	0.00
ATOM	2069	HD11	LEU	X	134	27.874	34.171	32.932	0.00	0.00
ATOM	2070	HD12	LEU	X	134	29.063	33.273	31.993	0.00	0.00
ATOM	2071	HD13	LEU	X	134	27.366	33.319	31.408	0.00	0.00
ATOM	2072	CD2	LEU	X	134	29.350	36.084	31.955	0.00	0.00
ATOM	2073	HD21	LEU	X	134	29.766	36.958	31.454	0.00	0.00
ATOM	2074	HD22	LEU	X	134	28.819	36.442	32.837	0.00	0.00
ATOM	2075	HD23	LEU	X	134	30.201	35.440	32.176	0.00	0.00
ATOM	2076	C	LEU	X	134	27.106	34.258	28.428	0.00	0.00
ATOM	2077	O	LEU	X	134	26.192	33.585	28.935	0.00	0.00
ATOM	2078	N	VAL	X	135	26.907	35.250	27.594	0.00	0.00
ATOM	2079	H	VAL	X	135	27.793	35.697	27.406	0.00	0.00
ATOM	2080	CA	VAL	X	135	25.616	35.737	27.162	0.00	0.00
ATOM	2081	HA	VAL	X	135	25.077	35.826	28.105	0.00	0.00
ATOM	2082	CB	VAL	X	135	25.810	37.142	26.530	0.00	0.00
ATOM	2083	HB	VAL	X	135	26.642	37.111	25.828	0.00	0.00
ATOM	2084	CG1	VAL	X	135	24.539	37.569	25.695	0.00	0.00
ATOM	2085	HG11	VAL	X	135	24.632	38.597	25.345	0.00	0.00
ATOM	2086	HG12	VAL	X	135	24.358	36.897	24.856	0.00	0.00
ATOM	2087	HG13	VAL	X	135	23.684	37.688	26.361	0.00	0.00
ATOM	2088	CG2	VAL	X	135	26.207	38.094	27.603	0.00	0.00
ATOM	2089	HG21	VAL	X	135	25.329	38.668	27.900	0.00	0.00
ATOM	2090	HG22	VAL	X	135	27.011	38.748	27.266	0.00	0.00
ATOM	2091	HG23	VAL	X	135	26.551	37.586	28.504	0.00	0.00
ATOM	2092	C	VAL	X	135	24.967	34.730	26.223	0.00	0.00
ATOM	2093	O	VAL	X	135	23.744	34.556	26.229	0.00	0.00
ATOM	2094	N	GLN	X	136	25.602	34.086	25.285	0.00	0.00
ATOM	2095	H	GLN	X	136	26.571	34.293	25.094	0.00	0.00
ATOM	2096	CA	GLN	X	136	25.135	32.991	24.420	0.00	0.00
ATOM	2097	HA	GLN	X	136	24.250	33.246	23.836	0.00	0.00
ATOM	2098	CB	GLN	X	136	26.293	32.516	23.548	0.00	0.00
ATOM	2099	HB2	GLN	X	136	26.598	33.326	22.885	0.00	0.00
ATOM	2100	HB3	GLN	X	136	27.182	32.315	24.146	0.00	0.00
ATOM	2101	CG	GLN	X	136	26.105	31.255	22.634	0.00	0.00

ATOM	2102	HG2	GLN	X	136	25.052	30.985	22.554	0.00	0.00
ATOM	2103	HG3	GLN	X	136	26.519	31.541	21.667	0.00	0.00
ATOM	2104	CD	GLN	X	136	27.007	30.108	23.170	0.00	0.00
ATOM	2105	OE1	GLN	X	136	28.081	29.781	22.637	0.00	0.00
ATOM	2106	NE2	GLN	X	136	26.617	29.429	24.198	0.00	0.00
ATOM	2107	HE21	GLN	X	136	27.209	28.680	24.526	0.00	0.00
ATOM	2108	HE22	GLN	X	136	25.730	29.702	24.597	0.00	0.00
ATOM	2109	C	GLN	X	136	24.708	31.776	25.237	0.00	0.00
ATOM	2110	O	GLN	X	136	23.704	31.221	24.773	0.00	0.00
ATOM	2111	N	ALA	X	137	25.300	31.453	26.423	0.00	0.00
ATOM	2112	H	ALA	X	137	26.083	32.022	26.712	0.00	0.00
ATOM	2113	CA	ALA	X	137	24.856	30.352	27.302	0.00	0.00
ATOM	2114	HA	ALA	X	137	24.569	29.543	26.630	0.00	0.00
ATOM	2115	CB	ALA	X	137	26.166	29.964	28.072	0.00	0.00
ATOM	2116	HB1	ALA	X	137	26.675	30.828	28.499	0.00	0.00
ATOM	2117	HB2	ALA	X	137	26.789	29.462	27.332	0.00	0.00
ATOM	2118	HB3	ALA	X	137	25.963	29.184	28.806	0.00	0.00
ATOM	2119	C	ALA	X	137	23.698	30.681	28.260	0.00	0.00
ATOM	2120	O	ALA	X	137	22.841	29.826	28.522	0.00	0.00
ATOM	2121	N	GLU	X	138	23.673	31.884	28.899	0.00	0.00
ATOM	2122	H	GLU	X	138	24.431	32.532	28.739	0.00	0.00
ATOM	2123	CA	GLU	X	138	22.770	32.175	30.033	0.00	0.00
ATOM	2124	HA	GLU	X	138	21.990	31.432	30.201	0.00	0.00
ATOM	2125	CB	GLU	X	138	23.644	32.307	31.330	0.00	0.00
ATOM	2126	HB2	GLU	X	138	24.414	33.078	31.300	0.00	0.00
ATOM	2127	HB3	GLU	X	138	22.898	32.549	32.086	0.00	0.00
ATOM	2128	CG	GLU	X	138	24.392	30.961	31.682	0.00	0.00
ATOM	2129	HG2	GLU	X	138	25.036	30.696	30.843	0.00	0.00
ATOM	2130	HG3	GLU	X	138	24.997	31.004	32.588	0.00	0.00
ATOM	2131	CD	GLU	X	138	23.430	29.704	31.826	0.00	0.00
ATOM	2132	OE1	GLU	X	138	22.423	29.967	32.421	0.00	0.00
ATOM	2133	OE2	GLU	X	138	23.674	28.618	31.396	0.00	0.00
ATOM	2134	C	GLU	X	138	21.967	33.496	29.973	0.00	0.00
ATOM	2135	O	GLU	X	138	20.976	33.592	30.629	0.00	0.00
ATOM	2136	N	ARG	X	139	22.221	34.331	28.961	0.00	0.00
ATOM	2137	H	ARG	X	139	22.994	34.070	28.365	0.00	0.00
ATOM	2138	CA	ARG	X	139	21.374	35.447	28.515	0.00	0.00
ATOM	2139	HA	ARG	X	139	21.938	35.976	27.747	0.00	0.00
ATOM	2140	CB	ARG	X	139	19.983	34.887	28.073	0.00	0.00
ATOM	2141	HB2	ARG	X	139	19.555	34.286	28.875	0.00	0.00
ATOM	2142	HB3	ARG	X	139	19.315	35.729	27.893	0.00	0.00
ATOM	2143	CG	ARG	X	139	20.001	34.057	26.760	0.00	0.00
ATOM	2144	HG2	ARG	X	139	20.511	34.612	25.972	0.00	0.00
ATOM	2145	HG3	ARG	X	139	20.642	33.208	26.998	0.00	0.00
ATOM	2146	CD	ARG	X	139	18.647	33.578	26.213	0.00	0.00
ATOM	2147	HD2	ARG	X	139	18.780	32.841	25.422	0.00	0.00
ATOM	2148	HD3	ARG	X	139	18.118	33.090	27.031	0.00	0.00
ATOM	2149	NE	ARG	X	139	17.867	34.769	25.788	0.00	0.00
ATOM	2150	HE	ARG	X	139	17.299	35.207	26.499	0.00	0.00
ATOM	2151	CZ	ARG	X	139	17.657	35.209	24.571	0.00	0.00
ATOM	2152	NH1	ARG	X	139	18.144	34.670	23.460	0.00	0.00
ATOM	2153	HH11	ARG	X	139	18.502	33.726	23.466	0.00	0.00
ATOM	2154	HH12	ARG	X	139	18.060	35.062	22.533	0.00	0.00
ATOM	2155	NH2	ARG	X	139	16.996	36.352	24.527	0.00	0.00
ATOM	2156	HH21	ARG	X	139	17.063	36.955	25.334	0.00	0.00
ATOM	2157	HH22	ARG	X	139	16.861	36.865	23.668	0.00	0.00
ATOM	2158	C	ARG	X	139	21.030	36.578	29.612	0.00	0.00
ATOM	2159	O	ARG	X	139	20.539	37.629	29.241	0.00	0.00
ATOM	2160	N	THR	X	140	21.545	36.433	30.812	0.00	0.00
ATOM	2161	H	THR	X	140	21.893	35.512	31.036	0.00	0.00
ATOM	2162	CA	THR	X	140	21.894	37.498	31.710	0.00	0.00
ATOM	2163	HA	THR	X	140	20.942	37.960	31.970	0.00	0.00
ATOM	2164	CB	THR	X	140	22.622	36.951	32.938	0.00	0.00
ATOM	2165	HB	THR	X	140	22.934	37.808	33.536	0.00	0.00
ATOM	2166	CG2	THR	X	140	21.706	36.128	33.791	0.00	0.00
ATOM	2167	HG21	THR	X	140	20.700	36.548	33.763	0.00	0.00
ATOM	2168	HG22	THR	X	140	21.850	36.203	34.869	0.00	0.00

ATOM	2169	HG23	THR	X	140	21.825	35.082	33.508	0.00	0.00
ATOM	2170	OG1	THR	X	140	23.766	36.164	32.616	0.00	0.00
ATOM	2171	HG1	THR	X	140	24.259	36.654	31.954	0.00	0.00
ATOM	2172	C	THR	X	140	22.686	38.488	30.833	0.00	0.00
ATOM	2173	O	THR	X	140	23.614	38.099	30.040	0.00	0.00
ATOM	2174	N	VAL	X	141	22.416	39.756	31.082	0.00	0.00
ATOM	2175	H	VAL	X	141	21.573	39.893	31.620	0.00	0.00
ATOM	2176	CA	VAL	X	141	23.109	40.839	30.349	0.00	0.00
ATOM	2177	HA	VAL	X	141	23.306	40.589	29.306	0.00	0.00
ATOM	2178	CB	VAL	X	141	22.292	42.174	30.278	0.00	0.00
ATOM	2179	HB	VAL	X	141	21.988	42.739	31.160	0.00	0.00
ATOM	2180	CG1	VAL	X	141	23.079	43.204	29.351	0.00	0.00
ATOM	2181	HG11	VAL	X	141	22.565	44.163	29.300	0.00	0.00
ATOM	2182	HG12	VAL	X	141	24.066	43.446	29.745	0.00	0.00
ATOM	2183	HG13	VAL	X	141	23.289	42.761	28.377	0.00	0.00
ATOM	2184	CG2	VAL	X	141	20.971	41.871	29.665	0.00	0.00
ATOM	2185	HG21	VAL	X	141	20.480	41.030	30.154	0.00	0.00
ATOM	2186	HG22	VAL	X	141	21.111	41.446	28.672	0.00	0.00
ATOM	2187	HG23	VAL	X	141	20.266	42.702	29.701	0.00	0.00
ATOM	2188	C	VAL	X	141	24.509	41.181	30.940	0.00	0.00
ATOM	2189	O	VAL	X	141	24.682	41.759	32.029	0.00	0.00
ATOM	2190	N	LEU	X	142	25.563	40.917	30.207	0.00	0.00
ATOM	2191	H	LEU	X	142	25.426	40.528	29.285	0.00	0.00
ATOM	2192	CA	LEU	X	142	26.997	41.163	30.597	0.00	0.00
ATOM	2193	HA	LEU	X	142	27.021	41.071	31.683	0.00	0.00
ATOM	2194	CB	LEU	X	142	27.922	40.049	30.089	0.00	0.00
ATOM	2195	HB2	LEU	X	142	27.588	39.057	30.393	0.00	0.00
ATOM	2196	HB3	LEU	X	142	28.024	40.186	29.012	0.00	0.00
ATOM	2197	CG	LEU	X	142	29.372	39.928	30.691	0.00	0.00
ATOM	2198	HG	LEU	X	142	29.813	39.005	30.316	0.00	0.00
ATOM	2199	CD1	LEU	X	142	30.358	41.052	30.329	0.00	0.00
ATOM	2200	HD11	LEU	X	142	31.268	40.836	30.890	0.00	0.00
ATOM	2201	HD12	LEU	X	142	29.962	42.024	30.624	0.00	0.00
ATOM	2202	HD13	LEU	X	142	30.392	41.049	29.240	0.00	0.00
ATOM	2203	CD2	LEU	X	142	29.355	39.885	32.189	0.00	0.00
ATOM	2204	HD21	LEU	X	142	29.035	40.812	32.666	0.00	0.00
ATOM	2205	HD22	LEU	X	142	28.652	39.068	32.350	0.00	0.00
ATOM	2206	HD23	LEU	X	142	30.310	39.486	32.531	0.00	0.00
ATOM	2207	C	LEU	X	142	27.331	42.594	30.269	0.00	0.00
ATOM	2208	O	LEU	X	142	27.401	43.019	29.154	0.00	0.00
ATOM	2209	N	VAL	X	143	27.768	43.365	31.336	0.00	0.00
ATOM	2210	H	VAL	X	143	27.550	43.037	32.266	0.00	0.00
ATOM	2211	CA	VAL	X	143	28.302	44.708	31.273	0.00	0.00
ATOM	2212	HA	VAL	X	143	28.311	45.147	30.275	0.00	0.00
ATOM	2213	CB	VAL	X	143	27.486	45.762	32.090	0.00	0.00
ATOM	2214	HB	VAL	X	143	27.597	45.403	33.114	0.00	0.00
ATOM	2215	CG1	VAL	X	143	27.993	47.214	31.948	0.00	0.00
ATOM	2216	HG11	VAL	X	143	27.981	47.567	30.916	0.00	0.00
ATOM	2217	HG12	VAL	X	143	27.332	47.954	32.400	0.00	0.00
ATOM	2218	HG13	VAL	X	143	28.968	47.354	32.414	0.00	0.00
ATOM	2219	CG2	VAL	X	143	25.969	45.721	31.788	0.00	0.00
ATOM	2220	HG21	VAL	X	143	25.445	46.441	32.416	0.00	0.00
ATOM	2221	HG22	VAL	X	143	25.710	44.690	32.029	0.00	0.00
ATOM	2222	HG23	VAL	X	143	25.787	45.924	30.733	0.00	0.00
ATOM	2223	C	VAL	X	143	29.798	44.659	31.786	0.00	0.00
ATOM	2224	O	VAL	X	143	30.122	43.784	32.583	0.00	0.00
ATOM	2225	N	SER	X	144	30.626	45.516	31.341	0.00	0.00
ATOM	2226	H	SER	X	144	30.322	45.978	30.496	0.00	0.00
ATOM	2227	CA	SER	X	144	32.003	45.701	31.792	0.00	0.00
ATOM	2228	HA	SER	X	144	32.234	45.426	32.821	0.00	0.00
ATOM	2229	CB	SER	X	144	32.929	44.802	30.974	0.00	0.00
ATOM	2230	HB2	SER	X	144	32.481	43.814	31.075	0.00	0.00
ATOM	2231	HB3	SER	X	144	32.936	45.200	29.959	0.00	0.00
ATOM	2232	OG	SER	X	144	34.213	44.807	31.525	0.00	0.00
ATOM	2233	HG	SER	X	144	34.714	44.116	31.085	0.00	0.00
ATOM	2234	C	SER	X	144	32.490	47.111	31.587	0.00	0.00
ATOM	2235	O	SER	X	144	32.184	47.759	30.549	0.00	0.00

ATOM	2236	N	MET	X	145	33.472	47.610	32.429	0.00	0.00
ATOM	2237	H	MET	X	145	33.792	46.942	33.116	0.00	0.00
ATOM	2238	CA	MET	X	145	33.896	49.006	32.556	0.00	0.00
ATOM	2239	HA	MET	X	145	33.514	49.495	31.660	0.00	0.00
ATOM	2240	CB	MET	X	145	33.246	49.701	33.750	0.00	0.00
ATOM	2241	HB2	MET	X	145	33.605	50.729	33.799	0.00	0.00
ATOM	2242	HB3	MET	X	145	32.170	49.690	33.574	0.00	0.00
ATOM	2243	CG	MET	X	145	33.492	48.930	35.066	0.00	0.00
ATOM	2244	HG2	MET	X	145	33.140	47.900	35.007	0.00	0.00
ATOM	2245	HG3	MET	X	145	34.565	48.777	35.184	0.00	0.00
ATOM	2246	SD	MET	X	145	32.788	49.670	36.590	0.00	0.00
ATOM	2247	CE	MET	X	145	31.089	49.282	36.331	0.00	0.00
ATOM	2248	HE1	MET	X	145	30.495	49.617	37.181	0.00	0.00
ATOM	2249	HE2	MET	X	145	30.753	49.809	35.438	0.00	0.00
ATOM	2250	HE3	MET	X	145	31.087	48.237	36.020	0.00	0.00
ATOM	2251	C	MET	X	145	35.426	49.256	32.655	0.00	0.00
ATOM	2252	O	MET	X	145	36.130	48.356	33.153	0.00	0.00
ATOM	2253	N	ASN	X	146	35.834	50.466	32.209	0.00	0.00
ATOM	2254	H	ASN	X	146	35.182	51.100	31.769	0.00	0.00
ATOM	2255	CA	ASN	X	146	37.149	51.063	32.588	0.00	0.00
ATOM	2256	HA	ASN	X	146	37.909	50.315	32.812	0.00	0.00
ATOM	2257	CB	ASN	X	146	37.767	51.911	31.436	0.00	0.00
ATOM	2258	HB2	ASN	X	146	36.998	52.457	30.891	0.00	0.00
ATOM	2259	HB3	ASN	X	146	38.447	52.694	31.771	0.00	0.00
ATOM	2260	CG	ASN	X	146	38.479	51.118	30.394	0.00	0.00
ATOM	2261	OD1	ASN	X	146	38.537	49.896	30.429	0.00	0.00
ATOM	2262	ND2	ASN	X	146	39.151	51.804	29.467	0.00	0.00
ATOM	2263	HD21	ASN	X	146	39.615	51.357	28.689	0.00	0.00
ATOM	2264	HD22	ASN	X	146	39.131	52.813	29.446	0.00	0.00
ATOM	2265	C	ASN	X	146	37.047	51.929	33.845	0.00	0.00
ATOM	2266	O	ASN	X	146	35.955	52.304	34.304	0.00	0.00
ATOM	2267	N	TYR	X	147	38.211	52.175	34.409	0.00	0.00
ATOM	2268	H	TYR	X	147	39.027	51.722	34.024	0.00	0.00
ATOM	2269	CA	TYR	X	147	38.383	52.974	35.575	0.00	0.00
ATOM	2270	HA	TYR	X	147	37.809	53.884	35.400	0.00	0.00
ATOM	2271	CB	TYR	X	147	37.855	52.262	36.813	0.00	0.00
ATOM	2272	HB2	TYR	X	147	38.196	52.876	37.646	0.00	0.00
ATOM	2273	HB3	TYR	X	147	36.788	52.438	36.949	0.00	0.00
ATOM	2274	CG	TYR	X	147	37.957	50.704	37.050	0.00	0.00
ATOM	2275	CD1	TYR	X	147	36.999	49.855	36.557	0.00	0.00
ATOM	2276	HD1	TYR	X	147	36.048	50.176	36.160	0.00	0.00
ATOM	2277	CE1	TYR	X	147	37.155	48.464	36.699	0.00	0.00
ATOM	2278	HE1	TYR	X	147	36.397	47.756	36.395	0.00	0.00
ATOM	2279	CZ	TYR	X	147	38.369	47.941	37.182	0.00	0.00
ATOM	2280	OH	TYR	X	147	38.476	46.609	37.390	0.00	0.00
ATOM	2281	HH	TYR	X	147	39.321	46.315	37.739	0.00	0.00
ATOM	2282	CE2	TYR	X	147	39.351	48.810	37.580	0.00	0.00
ATOM	2283	HE2	TYR	X	147	40.179	48.314	38.065	0.00	0.00
ATOM	2284	CD2	TYR	X	147	39.185	50.230	37.579	0.00	0.00
ATOM	2285	HD2	TYR	X	147	40.024	50.850	37.860	0.00	0.00
ATOM	2286	C	TYR	X	147	39.878	53.383	35.720	0.00	0.00
ATOM	2287	O	TYR	X	147	40.834	52.581	35.466	0.00	0.00
ATOM	2288	N	ARG	X	148	40.085	54.540	36.314	0.00	0.00
ATOM	2289	H	ARG	X	148	39.315	55.100	36.653	0.00	0.00
ATOM	2290	CA	ARG	X	148	41.424	55.073	36.427	0.00	0.00
ATOM	2291	HA	ARG	X	148	41.830	54.763	35.464	0.00	0.00
ATOM	2292	CB	ARG	X	148	41.362	56.581	36.429	0.00	0.00
ATOM	2293	HB2	ARG	X	148	40.793	56.988	37.265	0.00	0.00
ATOM	2294	HB3	ARG	X	148	42.414	56.837	36.555	0.00	0.00
ATOM	2295	CG	ARG	X	148	40.815	57.186	35.094	0.00	0.00
ATOM	2296	HG2	ARG	X	148	41.569	57.229	34.308	0.00	0.00
ATOM	2297	HG3	ARG	X	148	40.030	56.563	34.666	0.00	0.00
ATOM	2298	CD	ARG	X	148	40.380	58.674	35.222	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.289	59.174	35.557	0.00	0.00
ATOM	2300	HD3	ARG	X	148	40.125	59.070	34.240	0.00	0.00
ATOM	2301	NE	ARG	X	148	39.359	58.847	36.218	0.00	0.00
ATOM	2302	HE	ARG	X	148	38.972	58.051	36.703	0.00	0.00

ATOM	2303	CZ	ARG	X	148	39.147	60.009	36.905	0.00	0.00
ATOM	2304	NH1	ARG	X	148	39.743	61.092	36.592	0.00	0.00
ATOM	2305	HH11	ARG	X	148	40.165	61.266	35.691	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.380	61.966	36.945	0.00	0.00
ATOM	2307	NH2	ARG	X	148	38.352	59.906	37.938	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.721	59.123	38.039	0.00	0.00
ATOM	2309	HH22	ARG	X	148	38.072	60.642	38.570	0.00	0.00
ATOM	2310	C	ARG	X	148	42.237	54.430	37.545	0.00	0.00
ATOM	2311	O	ARG	X	148	42.163	54.846	38.676	0.00	0.00
ATOM	2312	N	VAL	X	149	42.862	53.331	37.227	0.00	0.00
ATOM	2313	H	VAL	X	149	42.758	53.104	36.248	0.00	0.00
ATOM	2314	CA	VAL	X	149	43.881	52.485	37.979	0.00	0.00
ATOM	2315	HA	VAL	X	149	43.453	52.316	38.967	0.00	0.00
ATOM	2316	CB	VAL	X	149	44.064	51.104	37.341	0.00	0.00
ATOM	2317	HB	VAL	X	149	44.898	50.708	37.919	0.00	0.00
ATOM	2318	CG1	VAL	X	149	42.869	50.232	37.539	0.00	0.00
ATOM	2319	HG11	VAL	X	149	42.507	50.187	38.566	0.00	0.00
ATOM	2320	HG12	VAL	X	149	42.026	50.672	37.006	0.00	0.00
ATOM	2321	HG13	VAL	X	149	43.091	49.209	37.235	0.00	0.00
ATOM	2322	CG2	VAL	X	149	44.376	51.024	35.831	0.00	0.00
ATOM	2323	HG21	VAL	X	149	45.281	51.567	35.560	0.00	0.00
ATOM	2324	HG22	VAL	X	149	43.512	51.453	35.322	0.00	0.00
ATOM	2325	HG23	VAL	X	149	44.576	49.998	35.523	0.00	0.00
ATOM	2326	C	VAL	X	149	45.179	53.301	38.133	0.00	0.00
ATOM	2327	O	VAL	X	149	45.445	54.259	37.414	0.00	0.00
ATOM	2328	N	GLY	X	150	46.035	53.055	39.093	0.00	0.00
ATOM	2329	H	GLY	X	150	45.926	52.233	39.670	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.237	53.937	39.391	0.00	0.00
ATOM	2331	HA2	GLY	X	150	47.950	53.337	39.956	0.00	0.00
ATOM	2332	HA3	GLY	X	150	47.614	54.187	38.399	0.00	0.00
ATOM	2333	C	GLY	X	150	47.013	55.260	40.071	0.00	0.00
ATOM	2334	O	GLY	X	150	45.933	55.571	40.530	0.00	0.00
ATOM	2335	N	ALA	X	151	48.015	56.089	39.995	0.00	0.00
ATOM	2336	H	ALA	X	151	48.929	55.692	39.828	0.00	0.00
ATOM	2337	CA	ALA	X	151	48.041	57.515	40.450	0.00	0.00
ATOM	2338	HA	ALA	X	151	48.186	57.470	41.529	0.00	0.00
ATOM	2339	CB	ALA	X	151	49.297	58.145	39.912	0.00	0.00
ATOM	2340	HB1	ALA	X	151	50.174	57.842	40.483	0.00	0.00
ATOM	2341	HB2	ALA	X	151	49.324	59.232	39.993	0.00	0.00
ATOM	2342	HB3	ALA	X	151	49.623	57.931	38.894	0.00	0.00
ATOM	2343	C	ALA	X	151	46.755	58.300	40.061	0.00	0.00
ATOM	2344	O	ALA	X	151	46.140	58.904	40.973	0.00	0.00
ATOM	2345	N	PHE	X	152	46.394	58.158	38.811	0.00	0.00
ATOM	2346	H	PHE	X	152	47.004	57.786	38.097	0.00	0.00
ATOM	2347	CA	PHE	X	152	45.219	58.819	38.164	0.00	0.00
ATOM	2348	HA	PHE	X	152	45.509	59.869	38.159	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.114	58.318	36.694	0.00	0.00
ATOM	2350	HB2	PHE	X	152	44.766	57.294	36.557	0.00	0.00
ATOM	2351	HB3	PHE	X	152	44.425	58.968	36.154	0.00	0.00
ATOM	2352	CG	PHE	X	152	46.412	58.453	35.883	0.00	0.00
ATOM	2353	CD1	PHE	X	152	47.186	57.346	35.745	0.00	0.00
ATOM	2354	HD1	PHE	X	152	46.914	56.358	36.084	0.00	0.00
ATOM	2355	CE1	PHE	X	152	48.442	57.446	35.033	0.00	0.00
ATOM	2356	HE1	PHE	X	152	49.106	56.607	34.886	0.00	0.00
ATOM	2357	CZ	PHE	X	152	48.906	58.647	34.497	0.00	0.00
ATOM	2358	HZ	PHE	X	152	49.918	58.672	34.121	0.00	0.00
ATOM	2359	CE2	PHE	X	152	48.086	59.765	34.615	0.00	0.00
ATOM	2360	HE2	PHE	X	152	48.326	60.665	34.068	0.00	0.00
ATOM	2361	CD2	PHE	X	152	46.803	59.684	35.300	0.00	0.00
ATOM	2362	HD2	PHE	X	152	46.148	60.542	35.335	0.00	0.00
ATOM	2363	C	PHE	X	152	43.910	58.679	38.994	0.00	0.00
ATOM	2364	O	PHE	X	152	43.119	59.578	38.884	0.00	0.00
ATOM	2365	N	GLY	X	153	43.818	57.567	39.746	0.00	0.00
ATOM	2366	H	GLY	X	153	44.620	56.953	39.747	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.759	57.266	40.675	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.849	57.833	40.480	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.492	56.211	40.613	0.00	0.00

ATOM	2370	C	GLY	X	153	43.065	57.418	42.160	0.00	0.00
ATOM	2371	O	GLY	X	153	42.090	57.576	42.862	0.00	0.00
ATOM	2372	N	PHE	X	154	44.271	57.179	42.672	0.00	0.00
ATOM	2373	H	PHE	X	154	44.972	56.793	42.057	0.00	0.00
ATOM	2374	CA	PHE	X	154	44.519	56.732	44.050	0.00	0.00
ATOM	2375	HA	PHE	X	154	43.616	56.965	44.614	0.00	0.00
ATOM	2376	CB	PHE	X	154	44.675	55.189	44.108	0.00	0.00
ATOM	2377	HB2	PHE	X	154	45.577	54.898	43.570	0.00	0.00
ATOM	2378	HB3	PHE	X	154	44.666	54.841	45.141	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.500	54.485	43.565	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.603	53.869	42.297	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.499	53.976	41.702	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.462	53.122	41.849	0.00	0.00
ATOM	2383	HE1	PHE	X	154	42.529	52.593	40.909	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.307	52.936	42.699	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.454	52.361	42.370	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.312	53.510	43.992	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.442	53.414	44.625	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.427	54.280	44.439	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.338	54.698	45.430	0.00	0.00
ATOM	2390	C	PHE	X	154	45.727	57.472	44.635	0.00	0.00
ATOM	2391	O	PHE	X	154	46.006	57.289	45.779	0.00	0.00
ATOM	2392	N	LEU	X	155	46.429	58.319	43.909	0.00	0.00
ATOM	2393	H	LEU	X	155	46.069	58.479	42.979	0.00	0.00
ATOM	2394	CA	LEU	X	155	47.255	59.366	44.520	0.00	0.00
ATOM	2395	HA	LEU	X	155	47.870	58.764	45.190	0.00	0.00
ATOM	2396	CB	LEU	X	155	48.096	60.130	43.455	0.00	0.00
ATOM	2397	HB2	LEU	X	155	48.245	59.536	42.554	0.00	0.00
ATOM	2398	HB3	LEU	X	155	47.376	60.852	43.069	0.00	0.00
ATOM	2399	CG	LEU	X	155	49.340	60.829	43.963	0.00	0.00
ATOM	2400	HG	LEU	X	155	49.712	60.449	44.914	0.00	0.00
ATOM	2401	CD1	LEU	X	155	50.463	60.336	43.032	0.00	0.00
ATOM	2402	HD11	LEU	X	155	50.145	60.506	42.004	0.00	0.00
ATOM	2403	HD12	LEU	X	155	50.535	59.254	43.148	0.00	0.00
ATOM	2404	HD13	LEU	X	155	51.395	60.831	43.304	0.00	0.00
ATOM	2405	CD2	LEU	X	155	49.227	62.316	43.901	0.00	0.00
ATOM	2406	HD21	LEU	X	155	48.743	62.640	44.822	0.00	0.00
ATOM	2407	HD22	LEU	X	155	50.223	62.755	43.846	0.00	0.00
ATOM	2408	HD23	LEU	X	155	48.689	62.667	43.020	0.00	0.00
ATOM	2409	C	LEU	X	155	46.289	60.243	45.400	0.00	0.00
ATOM	2410	O	LEU	X	155	45.232	60.723	44.983	0.00	0.00
ATOM	2411	N	ALA	X	156	46.692	60.455	46.718	0.00	0.00
ATOM	2412	H	ALA	X	156	47.538	60.052	47.094	0.00	0.00
ATOM	2413	CA	ALA	X	156	45.874	61.213	47.714	0.00	0.00
ATOM	2414	HA	ALA	X	156	45.163	61.860	47.200	0.00	0.00
ATOM	2415	CB	ALA	X	156	45.165	60.179	48.571	0.00	0.00
ATOM	2416	HB1	ALA	X	156	45.915	59.517	49.006	0.00	0.00
ATOM	2417	HB2	ALA	X	156	44.539	59.518	47.972	0.00	0.00
ATOM	2418	HB3	ALA	X	156	44.673	60.655	49.419	0.00	0.00
ATOM	2419	C	ALA	X	156	46.817	62.009	48.510	0.00	0.00
ATOM	2420	O	ALA	X	156	47.929	61.587	48.889	0.00	0.00
ATOM	2421	N	LEU	X	157	46.368	63.219	48.781	0.00	0.00
ATOM	2422	H	LEU	X	157	45.422	63.339	48.448	0.00	0.00
ATOM	2423	CA	LEU	X	157	46.873	64.117	49.862	0.00	0.00
ATOM	2424	HA	LEU	X	157	47.677	63.616	50.401	0.00	0.00
ATOM	2425	CB	LEU	X	157	47.390	65.439	49.196	0.00	0.00
ATOM	2426	HB2	LEU	X	157	46.550	65.787	48.594	0.00	0.00
ATOM	2427	HB3	LEU	X	157	47.377	66.170	50.004	0.00	0.00
ATOM	2428	CG	LEU	X	157	48.697	65.443	48.410	0.00	0.00
ATOM	2429	HG	LEU	X	157	48.560	64.737	47.591	0.00	0.00
ATOM	2430	CD1	LEU	X	157	49.091	66.859	48.005	0.00	0.00
ATOM	2431	HD11	LEU	X	157	49.912	66.712	47.304	0.00	0.00
ATOM	2432	HD12	LEU	X	157	49.579	67.480	48.757	0.00	0.00
ATOM	2433	HD13	LEU	X	157	48.216	67.318	47.545	0.00	0.00
ATOM	2434	CD2	LEU	X	157	49.833	64.753	49.229	0.00	0.00
ATOM	2435	HD21	LEU	X	157	50.074	65.200	50.193	0.00	0.00
ATOM	2436	HD22	LEU	X	157	49.538	63.725	49.436	0.00	0.00

ATOM	2437	HD23	LEU	X	157	50.709	64.688	48.583	0.00	0.00
ATOM	2438	C	LEU	X	157	45.767	64.274	50.959	0.00	0.00
ATOM	2439	O	LEU	X	157	44.824	65.050	50.698	0.00	0.00
ATOM	2440	N	PRO	X	158	45.799	63.401	51.999	0.00	0.00
ATOM	2441	CD	PRO	X	158	46.821	62.477	52.509	0.00	0.00
ATOM	2442	HD2	PRO	X	158	47.669	62.919	53.033	0.00	0.00
ATOM	2443	HD3	PRO	X	158	47.265	61.910	51.691	0.00	0.00
ATOM	2444	CG	PRO	X	158	46.167	61.481	53.459	0.00	0.00
ATOM	2445	HG2	PRO	X	158	46.861	61.252	54.267	0.00	0.00
ATOM	2446	HG3	PRO	X	158	45.862	60.573	52.939	0.00	0.00
ATOM	2447	CB	PRO	X	158	44.828	62.150	53.791	0.00	0.00
ATOM	2448	HB2	PRO	X	158	44.881	62.612	54.776	0.00	0.00
ATOM	2449	HB3	PRO	X	158	44.061	61.392	53.948	0.00	0.00
ATOM	2450	CA	PRO	X	158	44.570	63.224	52.716	0.00	0.00
ATOM	2451	HA	PRO	X	158	43.705	63.022	52.084	0.00	0.00
ATOM	2452	C	PRO	X	158	44.210	64.532	53.425	0.00	0.00
ATOM	2453	O	PRO	X	158	45.081	65.219	53.894	0.00	0.00
ATOM	2454	N	GLY	X	159	42.909	64.826	53.489	0.00	0.00
ATOM	2455	H	GLY	X	159	42.247	64.188	53.071	0.00	0.00
ATOM	2456	CA	GLY	X	159	42.366	66.139	54.019	0.00	0.00
ATOM	2457	HA2	GLY	X	159	41.358	65.916	54.369	0.00	0.00
ATOM	2458	HA3	GLY	X	159	43.033	66.633	54.725	0.00	0.00
ATOM	2459	C	GLY	X	159	42.212	67.232	52.937	0.00	0.00
ATOM	2460	O	GLY	X	159	41.418	68.099	53.070	0.00	0.00
ATOM	2461	N	SER	X	160	43.096	67.137	51.923	0.00	0.00
ATOM	2462	H	SER	X	160	43.721	66.343	51.918	0.00	0.00
ATOM	2463	CA	SER	X	160	43.048	68.080	50.761	0.00	0.00
ATOM	2464	HA	SER	X	160	42.904	69.084	51.161	0.00	0.00
ATOM	2465	CB	SER	X	160	44.307	68.083	49.884	0.00	0.00
ATOM	2466	HB2	SER	X	160	44.340	68.993	49.285	0.00	0.00
ATOM	2467	HB3	SER	X	160	45.170	68.134	50.549	0.00	0.00
ATOM	2468	OG	SER	X	160	44.378	66.993	48.979	0.00	0.00
ATOM	2469	HG	SER	X	160	44.451	66.154	49.439	0.00	0.00
ATOM	2470	C	SER	X	160	41.826	68.089	49.856	0.00	0.00
ATOM	2471	O	SER	X	160	41.129	67.101	49.843	0.00	0.00
ATOM	2472	N	ARG	X	161	41.441	69.167	49.176	0.00	0.00
ATOM	2473	H	ARG	X	161	41.931	70.037	49.327	0.00	0.00
ATOM	2474	CA	ARG	X	161	40.599	69.182	47.947	0.00	0.00
ATOM	2475	HA	ARG	X	161	39.849	68.396	48.030	0.00	0.00
ATOM	2476	CB	ARG	X	161	39.883	70.607	47.950	0.00	0.00
ATOM	2477	HB2	ARG	X	161	40.604	71.388	48.195	0.00	0.00
ATOM	2478	HB3	ARG	X	161	39.537	70.902	46.960	0.00	0.00
ATOM	2479	CG	ARG	X	161	38.707	70.745	48.951	0.00	0.00
ATOM	2480	HG2	ARG	X	161	37.939	70.132	48.480	0.00	0.00
ATOM	2481	HG3	ARG	X	161	39.016	70.343	49.916	0.00	0.00
ATOM	2482	CD	ARG	X	161	38.328	72.274	49.111	0.00	0.00
ATOM	2483	HD2	ARG	X	161	37.771	72.512	50.017	0.00	0.00
ATOM	2484	HD3	ARG	X	161	39.280	72.793	49.224	0.00	0.00
ATOM	2485	NE	ARG	X	161	37.593	72.843	47.947	0.00	0.00
ATOM	2486	HE	ARG	X	161	37.252	72.173	47.273	0.00	0.00
ATOM	2487	CZ	ARG	X	161	37.140	74.071	47.806	0.00	0.00
ATOM	2488	NH1	ARG	X	161	37.542	75.071	48.577	0.00	0.00
ATOM	2489	HH11	ARG	X	161	38.262	74.878	49.259	0.00	0.00
ATOM	2490	HH12	ARG	X	161	37.111	75.983	48.621	0.00	0.00
ATOM	2491	NH2	ARG	X	161	36.204	74.281	46.948	0.00	0.00
ATOM	2492	HH21	ARG	X	161	35.956	73.540	46.307	0.00	0.00
ATOM	2493	HH22	ARG	X	161	35.818	75.185	46.718	0.00	0.00
ATOM	2494	C	ARG	X	161	41.449	68.992	46.643	0.00	0.00
ATOM	2495	O	ARG	X	161	40.863	68.926	45.559	0.00	0.00
ATOM	2496	N	GLU	X	162	42.758	68.957	46.796	0.00	0.00
ATOM	2497	H	GLU	X	162	43.103	69.126	47.730	0.00	0.00
ATOM	2498	CA	GLU	X	162	43.753	68.880	45.644	0.00	0.00
ATOM	2499	HA	GLU	X	162	43.381	69.464	44.803	0.00	0.00
ATOM	2500	CB	GLU	X	162	44.989	69.470	46.227	0.00	0.00
ATOM	2501	HB2	GLU	X	162	45.227	68.966	47.163	0.00	0.00
ATOM	2502	HB3	GLU	X	162	45.760	69.272	45.482	0.00	0.00
ATOM	2503	CG	GLU	X	162	44.920	71.038	46.506	0.00	0.00

ATOM	2504	HG2	GLU	X	162	45.817	71.501	46.918	0.00	0.00
ATOM	2505	HG3	GLU	X	162	44.699	71.511	45.548	0.00	0.00
ATOM	2506	CD	GLU	X	162	43.901	71.651	47.465	0.00	0.00
ATOM	2507	OE1	GLU	X	162	43.301	72.655	47.098	0.00	0.00
ATOM	2508	OE2	GLU	X	162	43.887	71.201	48.632	0.00	0.00
ATOM	2509	C	GLU	X	162	43.880	67.443	45.139	0.00	0.00
ATOM	2510	O	GLU	X	162	43.623	67.199	43.963	0.00	0.00
ATOM	2511	N	ALA	X	163	44.236	66.435	46.002	0.00	0.00
ATOM	2512	H	ALA	X	163	44.315	66.728	46.965	0.00	0.00
ATOM	2513	CA	ALA	X	163	43.934	65.125	45.678	0.00	0.00
ATOM	2514	HA	ALA	X	163	43.348	65.012	44.766	0.00	0.00
ATOM	2515	CB	ALA	X	163	45.322	64.431	45.465	0.00	0.00
ATOM	2516	HB1	ALA	X	163	45.035	63.416	45.191	0.00	0.00
ATOM	2517	HB2	ALA	X	163	45.920	64.474	46.375	0.00	0.00
ATOM	2518	HB3	ALA	X	163	45.769	64.890	44.583	0.00	0.00
ATOM	2519	C	ALA	X	163	43.127	64.473	46.855	0.00	0.00
ATOM	2520	O	ALA	X	163	43.811	64.012	47.757	0.00	0.00
ATOM	2521	N	PRO	X	164	41.779	64.467	46.792	0.00	0.00
ATOM	2522	CD	PRO	X	164	41.010	65.042	45.829	0.00	0.00
ATOM	2523	HD2	PRO	X	164	40.924	64.415	44.943	0.00	0.00
ATOM	2524	HD3	PRO	X	164	41.413	66.023	45.576	0.00	0.00
ATOM	2525	CG	PRO	X	164	39.582	65.139	46.401	0.00	0.00
ATOM	2526	HG2	PRO	X	164	38.838	65.287	45.619	0.00	0.00
ATOM	2527	HG3	PRO	X	164	39.463	65.965	47.102	0.00	0.00
ATOM	2528	CB	PRO	X	164	39.491	63.916	47.245	0.00	0.00
ATOM	2529	HB2	PRO	X	164	39.144	63.130	46.575	0.00	0.00
ATOM	2530	HB3	PRO	X	164	38.856	63.941	48.130	0.00	0.00
ATOM	2531	CA	PRO	X	164	40.941	63.654	47.682	0.00	0.00
ATOM	2532	HA	PRO	X	164	40.971	64.003	48.714	0.00	0.00
ATOM	2533	C	PRO	X	164	41.242	62.103	47.613	0.00	0.00
ATOM	2534	O	PRO	X	164	41.344	61.406	48.653	0.00	0.00
ATOM	2535	N	GLY	X	165	41.518	61.617	46.401	0.00	0.00
ATOM	2536	H	GLY	X	165	41.409	62.188	45.575	0.00	0.00
ATOM	2537	CA	GLY	X	165	41.773	60.174	46.221	0.00	0.00
ATOM	2538	HA2	GLY	X	165	42.373	60.110	45.313	0.00	0.00
ATOM	2539	HA3	GLY	X	165	42.419	59.835	47.031	0.00	0.00
ATOM	2540	C	GLY	X	165	40.517	59.181	46.155	0.00	0.00
ATOM	2541	O	GLY	X	165	39.341	59.625	46.074	0.00	0.00
ATOM	2542	N	ASN	X	166	40.847	57.881	46.007	0.00	0.00
ATOM	2543	H	ASN	X	166	41.818	57.602	46.002	0.00	0.00
ATOM	2544	CA	ASN	X	166	39.887	56.764	45.827	0.00	0.00
ATOM	2545	HA	ASN	X	166	40.532	55.886	45.780	0.00	0.00
ATOM	2546	CB	ASN	X	166	39.005	56.587	47.064	0.00	0.00
ATOM	2547	HB2	ASN	X	166	38.412	57.480	47.262	0.00	0.00
ATOM	2548	HB3	ASN	X	166	38.295	55.789	46.849	0.00	0.00
ATOM	2549	CG	ASN	X	166	39.693	56.287	48.362	0.00	0.00
ATOM	2550	OD1	ASN	X	166	40.830	56.031	48.359	0.00	0.00
ATOM	2551	ND2	ASN	X	166	38.916	56.218	49.445	0.00	0.00
ATOM	2552	HD21	ASN	X	166	39.416	56.033	50.303	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.963	56.539	49.532	0.00	0.00
ATOM	2554	C	ASN	X	166	39.022	56.947	44.591	0.00	0.00
ATOM	2555	O	ASN	X	166	38.016	56.218	44.461	0.00	0.00
ATOM	2556	N	VAL	X	167	39.290	57.872	43.675	0.00	0.00
ATOM	2557	H	VAL	X	167	40.061	58.492	43.878	0.00	0.00
ATOM	2558	CA	VAL	X	167	38.340	58.308	42.582	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.372	58.388	43.075	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.569	59.662	41.924	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.635	59.869	41.401	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.671	60.729	42.976	0.00	0.00
ATOM	2563	HG11	VAL	X	167	37.917	60.599	43.752	0.00	0.00
ATOM	2564	HG12	VAL	X	167	39.693	60.752	43.353	0.00	0.00
ATOM	2565	HG13	VAL	X	167	38.488	61.689	42.492	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.802	59.692	41.157	0.00	0.00
ATOM	2567	HG21	VAL	X	167	39.634	58.998	40.333	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.580	59.346	41.837	0.00	0.00
ATOM	2569	HG23	VAL	X	167	40.057	60.653	40.712	0.00	0.00
ATOM	2570	C	VAL	X	167	38.212	57.164	41.575	0.00	0.00

ATOM	2571	O	VAL	X	167	37.232	57.206	40.864	0.00	0.00
ATOM	2572	N	GLY	X	168	39.158	56.191	41.468	0.00	0.00
ATOM	2573	H	GLY	X	168	39.817	56.167	42.233	0.00	0.00
ATOM	2574	CA	GLY	X	168	38.936	55.037	40.523	0.00	0.00
ATOM	2575	HA2	GLY	X	168	38.600	55.450	39.572	0.00	0.00
ATOM	2576	HA3	GLY	X	168	39.904	54.559	40.365	0.00	0.00
ATOM	2577	C	GLY	X	168	37.815	54.124	41.028	0.00	0.00
ATOM	2578	O	GLY	X	168	37.360	53.219	40.362	0.00	0.00
ATOM	2579	N	LEU	X	169	37.364	54.298	42.280	0.00	0.00
ATOM	2580	H	LEU	X	169	37.785	55.091	42.743	0.00	0.00
ATOM	2581	CA	LEU	X	169	36.062	53.819	42.827	0.00	0.00
ATOM	2582	HA	LEU	X	169	35.825	52.860	42.367	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.230	53.461	44.259	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.397	54.412	44.765	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.327	52.959	44.606	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.320	52.412	44.643	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.270	52.738	44.220	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.345	52.465	46.194	0.00	0.00
ATOM	2589	HD11	LEU	X	169	37.487	53.459	46.616	0.00	0.00
ATOM	2590	HD12	LEU	X	169	38.247	52.023	46.619	0.00	0.00
ATOM	2591	HD13	LEU	X	169	36.447	51.970	46.564	0.00	0.00
ATOM	2592	CD2	LEU	X	169	37.158	50.958	44.140	0.00	0.00
ATOM	2593	HD21	LEU	X	169	37.506	50.923	43.108	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.818	50.295	44.700	0.00	0.00
ATOM	2595	HD23	LEU	X	169	36.124	50.618	44.199	0.00	0.00
ATOM	2596	C	LEU	X	169	34.903	54.727	42.547	0.00	0.00
ATOM	2597	O	LEU	X	169	33.798	54.198	42.263	0.00	0.00
ATOM	2598	N	LEU	X	170	35.069	56.086	42.621	0.00	0.00
ATOM	2599	H	LEU	X	170	35.987	56.440	42.850	0.00	0.00
ATOM	2600	CA	LEU	X	170	33.944	56.933	42.070	0.00	0.00
ATOM	2601	HA	LEU	X	170	32.977	56.846	42.566	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.331	58.437	42.149	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.219	58.684	41.568	0.00	0.00
ATOM	2604	HB3	LEU	X	170	33.493	58.922	41.648	0.00	0.00
ATOM	2605	CG	LEU	X	170	34.502	58.965	43.658	0.00	0.00
ATOM	2606	HG	LEU	X	170	35.424	58.577	44.090	0.00	0.00
ATOM	2607	CD1	LEU	X	170	34.561	60.498	43.421	0.00	0.00
ATOM	2608	HD11	LEU	X	170	35.438	60.823	42.862	0.00	0.00
ATOM	2609	HD12	LEU	X	170	34.471	60.949	44.409	0.00	0.00
ATOM	2610	HD13	LEU	X	170	33.647	60.876	42.962	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.402	58.662	44.643	0.00	0.00
ATOM	2612	HD21	LEU	X	170	32.966	57.663	44.670	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.706	58.923	45.656	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.565	59.315	44.396	0.00	0.00
ATOM	2615	C	LEU	X	170	33.607	56.695	40.615	0.00	0.00
ATOM	2616	O	LEU	X	170	32.425	56.778	40.225	0.00	0.00
ATOM	2617	N	ASP	X	171	34.663	56.297	39.813	0.00	0.00
ATOM	2618	H	ASP	X	171	35.617	56.397	40.131	0.00	0.00
ATOM	2619	CA	ASP	X	171	34.453	55.906	38.401	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.007	56.701	37.804	0.00	0.00
ATOM	2621	CB	ASP	X	171	35.833	55.508	37.680	0.00	0.00
ATOM	2622	HB2	ASP	X	171	36.256	54.650	38.202	0.00	0.00
ATOM	2623	HB3	ASP	X	171	35.619	55.250	36.643	0.00	0.00
ATOM	2624	CG	ASP	X	171	36.916	56.601	37.606	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.701	57.670	38.220	0.00	0.00
ATOM	2626	OD2	ASP	X	171	37.973	56.308	37.061	0.00	0.00
ATOM	2627	C	ASP	X	171	33.570	54.694	38.314	0.00	0.00
ATOM	2628	O	ASP	X	171	32.609	54.590	37.540	0.00	0.00
ATOM	2629	N	GLN	X	172	33.778	53.676	39.174	0.00	0.00
ATOM	2630	H	GLN	X	172	34.460	53.778	39.912	0.00	0.00
ATOM	2631	CA	GLN	X	172	33.074	52.439	39.180	0.00	0.00
ATOM	2632	HA	GLN	X	172	32.914	52.127	38.148	0.00	0.00
ATOM	2633	CB	GLN	X	172	33.799	51.421	40.087	0.00	0.00
ATOM	2634	HB2	GLN	X	172	34.034	51.933	41.020	0.00	0.00
ATOM	2635	HB3	GLN	X	172	33.124	50.604	40.342	0.00	0.00
ATOM	2636	CG	GLN	X	172	35.065	50.890	39.451	0.00	0.00
ATOM	2637	HG2	GLN	X	172	34.787	50.196	38.658	0.00	0.00

ATOM	2638	HG3	GLN	X	172	35.601	51.773	39.102	0.00	0.00
ATOM	2639	CD	GLN	X	172	35.858	50.063	40.507	0.00	0.00
ATOM	2640	OE1	GLN	X	172	35.611	50.112	41.718	0.00	0.00
ATOM	2641	NE2	GLN	X	172	36.790	49.258	40.101	0.00	0.00
ATOM	2642	HE21	GLN	X	172	37.266	48.765	40.843	0.00	0.00
ATOM	2643	HE22	GLN	X	172	36.986	49.230	39.110	0.00	0.00
ATOM	2644	C	GLN	X	172	31.627	52.624	39.786	0.00	0.00
ATOM	2645	O	GLN	X	172	30.672	52.126	39.176	0.00	0.00
ATOM	2646	N	ARG	X	173	31.458	53.492	40.784	0.00	0.00
ATOM	2647	H	ARG	X	173	32.309	53.856	41.188	0.00	0.00
ATOM	2648	CA	ARG	X	173	30.157	54.099	41.108	0.00	0.00
ATOM	2649	HA	ARG	X	173	29.472	53.337	41.480	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.312	55.077	42.311	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.019	54.779	43.085	0.00	0.00
ATOM	2652	HB3	ARG	X	173	30.739	55.956	41.828	0.00	0.00
ATOM	2653	CG	ARG	X	173	28.995	55.547	42.955	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.439	56.240	42.323	0.00	0.00
ATOM	2655	HG3	ARG	X	173	28.244	54.760	43.032	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.184	56.339	44.285	0.00	0.00
ATOM	2657	HD2	ARG	X	173	29.871	57.185	44.261	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.201	56.677	44.612	0.00	0.00
ATOM	2659	NE	ARG	X	173	29.655	55.364	45.354	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.148	54.507	45.523	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.410	55.738	46.422	0.00	0.00
ATOM	2662	NH1	ARG	X	173	30.883	56.944	46.640	0.00	0.00
ATOM	2663	HH11	ARG	X	173	30.717	57.727	46.025	0.00	0.00
ATOM	2664	HH12	ARG	X	173	31.428	57.168	47.461	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.610	54.922	47.394	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.386	53.941	47.310	0.00	0.00
ATOM	2667	HH22	ARG	X	173	31.077	55.201	48.245	0.00	0.00
ATOM	2668	C	ARG	X	173	29.396	54.760	39.934	0.00	0.00
ATOM	2669	O	ARG	X	173	28.181	54.624	39.839	0.00	0.00
ATOM	2670	N	LEU	X	174	30.100	55.492	39.080	0.00	0.00
ATOM	2671	H	LEU	X	174	31.097	55.529	39.237	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.523	56.250	37.960	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.728	56.762	38.503	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.421	57.367	37.557	0.00	0.00
ATOM	2675	HB2	LEU	X	174	30.750	57.943	38.422	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.252	56.866	37.059	0.00	0.00
ATOM	2677	CG	LEU	X	174	29.778	58.334	36.529	0.00	0.00
ATOM	2678	HG	LEU	X	174	29.535	57.758	35.636	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.589	59.070	37.175	0.00	0.00
ATOM	2680	HD11	LEU	X	174	27.845	58.399	37.604	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.128	59.608	36.346	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.759	59.851	37.916	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.754	59.479	36.151	0.00	0.00
ATOM	2684	HD21	LEU	X	174	31.746	59.118	35.881	0.00	0.00
ATOM	2685	HD22	LEU	X	174	30.354	59.997	35.280	0.00	0.00
ATOM	2686	HD23	LEU	X	174	30.825	60.187	36.977	0.00	0.00
ATOM	2687	C	LEU	X	174	28.960	55.367	36.824	0.00	0.00
ATOM	2688	O	LEU	X	174	27.957	55.604	36.133	0.00	0.00
ATOM	2689	N	ALA	X	175	29.594	54.182	36.669	0.00	0.00
ATOM	2690	H	ALA	X	175	30.529	54.040	37.024	0.00	0.00
ATOM	2691	CA	ALA	X	175	29.104	53.171	35.691	0.00	0.00
ATOM	2692	HA	ALA	X	175	28.733	53.535	34.733	0.00	0.00
ATOM	2693	CB	ALA	X	175	30.276	52.357	35.234	0.00	0.00
ATOM	2694	HB1	ALA	X	175	30.645	51.832	36.115	0.00	0.00
ATOM	2695	HB2	ALA	X	175	31.048	53.057	34.916	0.00	0.00
ATOM	2696	HB3	ALA	X	175	29.962	51.748	34.386	0.00	0.00
ATOM	2697	C	ALA	X	175	27.991	52.329	36.365	0.00	0.00
ATOM	2698	O	ALA	X	175	26.960	52.128	35.746	0.00	0.00
ATOM	2699	N	LEU	X	176	27.988	52.005	37.667	0.00	0.00
ATOM	2700	H	LEU	X	176	28.823	52.268	38.171	0.00	0.00
ATOM	2701	CA	LEU	X	176	26.747	51.471	38.317	0.00	0.00
ATOM	2702	HA	LEU	X	176	26.497	50.540	37.808	0.00	0.00
ATOM	2703	CB	LEU	X	176	27.150	51.091	39.752	0.00	0.00
ATOM	2704	HB2	LEU	X	176	27.613	51.955	40.230	0.00	0.00

ATOM	2705	HB3	LEU	X	176	26.223	50.865	40.277	0.00	0.00
ATOM	2706	CG	LEU	X	176	28.078	49.887	39.953	0.00	0.00
ATOM	2707	HG	LEU	X	176	28.934	49.983	39.286	0.00	0.00
ATOM	2708	CD1	LEU	X	176	28.562	49.839	41.450	0.00	0.00
ATOM	2709	HD11	LEU	X	176	27.684	49.678	42.075	0.00	0.00
ATOM	2710	HD12	LEU	X	176	29.039	50.776	41.737	0.00	0.00
ATOM	2711	HD13	LEU	X	176	29.360	49.102	41.529	0.00	0.00
ATOM	2712	CD2	LEU	X	176	27.290	48.583	39.528	0.00	0.00
ATOM	2713	HD21	LEU	X	176	26.847	48.716	38.541	0.00	0.00
ATOM	2714	HD22	LEU	X	176	28.086	47.840	39.489	0.00	0.00
ATOM	2715	HD23	LEU	X	176	26.530	48.387	40.285	0.00	0.00
ATOM	2716	C	LEU	X	176	25.558	52.385	38.330	0.00	0.00
ATOM	2717	O	LEU	X	176	24.496	51.926	37.982	0.00	0.00
ATOM	2718	N	GLN	X	177	25.772	53.719	38.470	0.00	0.00
ATOM	2719	H	GLN	X	177	26.643	54.049	38.859	0.00	0.00
ATOM	2720	CA	GLN	X	177	24.819	54.753	37.982	0.00	0.00
ATOM	2721	HA	GLN	X	177	23.901	54.640	38.559	0.00	0.00
ATOM	2722	CB	GLN	X	177	25.254	56.207	38.291	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.276	56.322	37.927	0.00	0.00
ATOM	2724	HB3	GLN	X	177	24.646	56.910	37.722	0.00	0.00
ATOM	2725	CG	GLN	X	177	25.096	56.408	39.780	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.070	56.368	40.147	0.00	0.00
ATOM	2727	HG3	GLN	X	177	25.733	55.681	40.284	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.584	57.770	40.171	0.00	0.00
ATOM	2729	OE1	GLN	X	177	26.444	58.322	39.567	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.041	58.499	41.126	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.248	59.477	41.272	0.00	0.00
ATOM	2732	HE22	GLN	X	177	24.190	58.127	41.523	0.00	0.00
ATOM	2733	C	GLN	X	177	24.387	54.533	36.534	0.00	0.00
ATOM	2734	O	GLN	X	177	23.178	54.496	36.438	0.00	0.00
ATOM	2735	N	TRP	X	178	25.210	54.493	35.538	0.00	0.00
ATOM	2736	H	TRP	X	178	26.187	54.373	35.767	0.00	0.00
ATOM	2737	CA	TRP	X	178	24.731	54.261	34.183	0.00	0.00
ATOM	2738	HA	TRP	X	178	24.092	55.092	33.887	0.00	0.00
ATOM	2739	CB	TRP	X	178	25.909	54.330	33.263	0.00	0.00
ATOM	2740	HB2	TRP	X	178	26.508	55.190	33.563	0.00	0.00
ATOM	2741	HB3	TRP	X	178	26.674	53.569	33.424	0.00	0.00
ATOM	2742	CG	TRP	X	178	25.553	54.532	31.844	0.00	0.00
ATOM	2743	CD1	TRP	X	178	25.679	55.713	31.260	0.00	0.00
ATOM	2744	HD1	TRP	X	178	25.974	56.662	31.682	0.00	0.00
ATOM	2745	NE1	TRP	X	178	25.224	55.645	29.950	0.00	0.00
ATOM	2746	HE1	TRP	X	178	25.129	56.445	29.341	0.00	0.00
ATOM	2747	CE2	TRP	X	178	24.986	54.411	29.568	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	24.698	53.871	28.335	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	24.588	54.551	27.504	0.00	0.00
ATOM	2750	CH2	TRP	X	178	24.661	52.477	28.323	0.00	0.00
ATOM	2751	HH2	TRP	X	178	24.462	51.957	27.397	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	24.787	51.699	29.445	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	24.694	50.624	29.393	0.00	0.00
ATOM	2754	CE3	TRP	X	178	25.018	52.291	30.672	0.00	0.00
ATOM	2755	HE3	TRP	X	178	25.209	51.599	31.479	0.00	0.00
ATOM	2756	CD2	TRP	X	178	25.157	53.652	30.764	0.00	0.00
ATOM	2757	C	TRP	X	178	23.950	52.996	34.074	0.00	0.00
ATOM	2758	O	TRP	X	178	22.948	53.015	33.391	0.00	0.00
ATOM	2759	N	VAL	X	179	24.409	51.898	34.553	0.00	0.00
ATOM	2760	H	VAL	X	179	25.285	52.009	35.043	0.00	0.00
ATOM	2761	CA	VAL	X	179	23.686	50.591	34.569	0.00	0.00
ATOM	2762	HA	VAL	X	179	23.607	50.238	33.541	0.00	0.00
ATOM	2763	CB	VAL	X	179	24.450	49.460	35.344	0.00	0.00
ATOM	2764	HB	VAL	X	179	24.636	49.860	36.341	0.00	0.00
ATOM	2765	CG1	VAL	X	179	23.565	48.229	35.595	0.00	0.00
ATOM	2766	HG11	VAL	X	179	23.175	47.886	34.636	0.00	0.00
ATOM	2767	HG12	VAL	X	179	24.120	47.358	35.943	0.00	0.00
ATOM	2768	HG13	VAL	X	179	22.793	48.410	36.342	0.00	0.00
ATOM	2769	CG2	VAL	X	179	25.708	49.060	34.574	0.00	0.00
ATOM	2770	HG21	VAL	X	179	26.220	48.267	35.118	0.00	0.00
ATOM	2771	HG22	VAL	X	179	26.391	49.905	34.658	0.00	0.00

ATOM	2772	HG23	VAL	X	179	25.489	48.805	33.537	0.00	0.00
ATOM	2773	C	VAL	X	179	22.268	50.872	35.036	0.00	0.00
ATOM	2774	O	VAL	X	179	21.428	50.641	34.232	0.00	0.00
ATOM	2775	N	GLN	X	180	22.093	51.379	36.287	0.00	0.00
ATOM	2776	H	GLN	X	180	22.950	51.443	36.817	0.00	0.00
ATOM	2777	CA	GLN	X	180	20.822	51.734	36.876	0.00	0.00
ATOM	2778	HA	GLN	X	180	20.292	50.787	36.979	0.00	0.00
ATOM	2779	CB	GLN	X	180	20.952	52.225	38.301	0.00	0.00
ATOM	2780	HB2	GLN	X	180	21.789	52.909	38.449	0.00	0.00
ATOM	2781	HB3	GLN	X	180	20.103	52.875	38.513	0.00	0.00
ATOM	2782	CG	GLN	X	180	20.948	51.184	39.358	0.00	0.00
ATOM	2783	HG2	GLN	X	180	21.836	50.585	39.156	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.006	51.527	40.391	0.00	0.00
ATOM	2785	CD	GLN	X	180	19.726	50.204	39.407	0.00	0.00
ATOM	2786	OE1	GLN	X	180	18.691	50.473	38.857	0.00	0.00
ATOM	2787	NE2	GLN	X	180	19.798	49.077	40.003	0.00	0.00
ATOM	2788	HE21	GLN	X	180	18.932	48.562	39.940	0.00	0.00
ATOM	2789	HE22	GLN	X	180	20.611	48.648	40.422	0.00	0.00
ATOM	2790	C	GLN	X	180	19.972	52.689	35.990	0.00	0.00
ATOM	2791	O	GLN	X	180	18.775	52.384	35.914	0.00	0.00
ATOM	2792	N	GLU	X	181	20.501	53.724	35.368	0.00	0.00
ATOM	2793	H	GLU	X	181	21.494	53.901	35.413	0.00	0.00
ATOM	2794	CA	GLU	X	181	19.651	54.547	34.464	0.00	0.00
ATOM	2795	HA	GLU	X	181	18.743	54.706	35.046	0.00	0.00
ATOM	2796	CB	GLU	X	181	20.391	55.820	34.184	0.00	0.00
ATOM	2797	HB2	GLU	X	181	21.460	55.608	34.220	0.00	0.00
ATOM	2798	HB3	GLU	X	181	20.221	56.119	33.150	0.00	0.00
ATOM	2799	CG	GLU	X	181	19.903	56.969	35.121	0.00	0.00
ATOM	2800	HG2	GLU	X	181	18.913	57.250	34.763	0.00	0.00
ATOM	2801	HG3	GLU	X	181	19.917	56.581	36.140	0.00	0.00
ATOM	2802	CD	GLU	X	181	20.851	58.115	35.138	0.00	0.00
ATOM	2803	OE1	GLU	X	181	21.689	58.241	36.074	0.00	0.00
ATOM	2804	OE2	GLU	X	181	20.760	58.962	34.152	0.00	0.00
ATOM	2805	C	GLU	X	181	19.316	53.959	33.138	0.00	0.00
ATOM	2806	O	GLU	X	181	18.144	54.133	32.696	0.00	0.00
ATOM	2807	N	ASN	X	182	20.186	53.134	32.498	0.00	0.00
ATOM	2808	H	ASN	X	182	21.096	53.089	32.933	0.00	0.00
ATOM	2809	CA	ASN	X	182	20.076	52.867	30.994	0.00	0.00
ATOM	2810	HA	ASN	X	182	19.174	53.377	30.656	0.00	0.00
ATOM	2811	CB	ASN	X	182	21.206	53.446	30.240	0.00	0.00
ATOM	2812	HB2	ASN	X	182	22.132	53.237	30.775	0.00	0.00
ATOM	2813	HB3	ASN	X	182	21.229	53.019	29.237	0.00	0.00
ATOM	2814	CG	ASN	X	182	21.108	54.987	30.256	0.00	0.00
ATOM	2815	OD1	ASN	X	182	20.148	55.559	29.747	0.00	0.00
ATOM	2816	ND2	ASN	X	182	22.108	55.544	30.856	0.00	0.00
ATOM	2817	HD21	ASN	X	182	21.968	56.493	31.172	0.00	0.00
ATOM	2818	HD22	ASN	X	182	22.940	55.003	31.046	0.00	0.00
ATOM	2819	C	ASN	X	182	19.908	51.344	30.630	0.00	0.00
ATOM	2820	O	ASN	X	182	19.566	50.956	29.538	0.00	0.00
ATOM	2821	N	VAL	X	183	20.354	50.415	31.512	0.00	0.00
ATOM	2822	H	VAL	X	183	20.575	50.751	32.438	0.00	0.00
ATOM	2823	CA	VAL	X	183	20.494	48.980	31.119	0.00	0.00
ATOM	2824	HA	VAL	X	183	21.209	49.077	30.303	0.00	0.00
ATOM	2825	CB	VAL	X	183	21.170	48.152	32.228	0.00	0.00
ATOM	2826	HB	VAL	X	183	22.062	48.687	32.553	0.00	0.00
ATOM	2827	CG1	VAL	X	183	20.245	47.875	33.471	0.00	0.00
ATOM	2828	HG11	VAL	X	183	19.678	48.731	33.835	0.00	0.00
ATOM	2829	HG12	VAL	X	183	19.538	47.077	33.245	0.00	0.00
ATOM	2830	HG13	VAL	X	183	20.881	47.625	34.320	0.00	0.00
ATOM	2831	CG2	VAL	X	183	21.685	46.822	31.695	0.00	0.00
ATOM	2832	HG21	VAL	X	183	22.382	46.368	32.400	0.00	0.00
ATOM	2833	HG22	VAL	X	183	22.184	47.105	30.769	0.00	0.00
ATOM	2834	HG23	VAL	X	183	20.885	46.086	31.615	0.00	0.00
ATOM	2835	C	VAL	X	183	19.240	48.302	30.614	0.00	0.00
ATOM	2836	O	VAL	X	183	19.220	47.335	29.801	0.00	0.00
ATOM	2837	N	ALA	X	184	18.119	48.880	31.014	0.00	0.00
ATOM	2838	H	ALA	X	184	18.159	49.489	31.819	0.00	0.00

ATOM	2839	CA	ALA	X	184	16.802	48.511	30.539	0.00	0.00
ATOM	2840	HA	ALA	X	184	16.577	47.506	30.898	0.00	0.00
ATOM	2841	CB	ALA	X	184	15.756	49.384	31.217	0.00	0.00
ATOM	2842	HB1	ALA	X	184	15.710	49.171	32.285	0.00	0.00
ATOM	2843	HB2	ALA	X	184	14.778	49.267	30.750	0.00	0.00
ATOM	2844	HB3	ALA	X	184	15.967	50.430	30.998	0.00	0.00
ATOM	2845	C	ALA	X	184	16.612	48.591	29.008	0.00	0.00
ATOM	2846	O	ALA	X	184	15.920	47.744	28.464	0.00	0.00
ATOM	2847	N	ALA	X	185	17.298	49.518	28.322	0.00	0.00
ATOM	2848	H	ALA	X	185	17.768	50.235	28.856	0.00	0.00
ATOM	2849	CA	ALA	X	185	17.309	49.594	26.848	0.00	0.00
ATOM	2850	HA	ALA	X	185	16.274	49.593	26.504	0.00	0.00
ATOM	2851	CB	ALA	X	185	17.876	51.013	26.610	0.00	0.00
ATOM	2852	HB1	ALA	X	185	17.168	51.665	27.122	0.00	0.00
ATOM	2853	HB2	ALA	X	185	17.879	51.233	25.543	0.00	0.00
ATOM	2854	HB3	ALA	X	185	18.861	51.204	27.035	0.00	0.00
ATOM	2855	C	ALA	X	185	18.084	48.489	26.198	0.00	0.00
ATOM	2856	O	ALA	X	185	17.881	48.179	25.022	0.00	0.00
ATOM	2857	N	PHE	X	186	18.899	47.674	27.018	0.00	0.00
ATOM	2858	H	PHE	X	186	19.020	48.041	27.951	0.00	0.00
ATOM	2859	CA	PHE	X	186	19.644	46.475	26.656	0.00	0.00
ATOM	2860	HA	PHE	X	186	19.628	46.352	25.573	0.00	0.00
ATOM	2861	CB	PHE	X	186	21.063	46.651	27.263	0.00	0.00
ATOM	2862	HB2	PHE	X	186	20.943	46.594	28.344	0.00	0.00
ATOM	2863	HB3	PHE	X	186	21.716	45.795	27.091	0.00	0.00
ATOM	2864	CG	PHE	X	186	21.797	47.866	26.757	0.00	0.00
ATOM	2865	CD1	PHE	X	186	21.568	49.166	27.363	0.00	0.00
ATOM	2866	HD1	PHE	X	186	20.745	49.389	28.026	0.00	0.00
ATOM	2867	CE1	PHE	X	186	22.384	50.234	26.863	0.00	0.00
ATOM	2868	HE1	PHE	X	186	22.252	51.242	27.227	0.00	0.00
ATOM	2869	CZ	PHE	X	186	23.363	50.036	25.880	0.00	0.00
ATOM	2870	HZ	PHE	X	186	23.919	50.892	25.526	0.00	0.00
ATOM	2871	CE2	PHE	X	186	23.669	48.780	25.301	0.00	0.00
ATOM	2872	HE2	PHE	X	186	24.350	48.697	24.467	0.00	0.00
ATOM	2873	CD2	PHE	X	186	22.859	47.682	25.773	0.00	0.00
ATOM	2874	HD2	PHE	X	186	22.902	46.674	25.387	0.00	0.00
ATOM	2875	C	PHE	X	186	18.943	45.170	27.189	0.00	0.00
ATOM	2876	O	PHE	X	186	19.580	44.129	27.313	0.00	0.00
ATOM	2877	N	GLY	X	187	17.681	45.230	27.561	0.00	0.00
ATOM	2878	H	GLY	X	187	17.290	46.162	27.570	0.00	0.00
ATOM	2879	CA	GLY	X	187	16.866	44.103	28.083	0.00	0.00
ATOM	2880	HA2	GLY	X	187	15.893	44.593	28.074	0.00	0.00
ATOM	2881	HA3	GLY	X	187	16.797	43.216	27.453	0.00	0.00
ATOM	2882	C	GLY	X	187	17.338	43.712	29.482	0.00	0.00
ATOM	2883	O	GLY	X	187	16.869	42.697	29.982	0.00	0.00
ATOM	2884	N	GLY	X	188	18.178	44.530	30.181	0.00	0.00
ATOM	2885	H	GLY	X	188	18.433	45.418	29.773	0.00	0.00
ATOM	2886	CA	GLY	X	188	18.509	44.256	31.575	0.00	0.00
ATOM	2887	HA2	GLY	X	188	18.951	43.263	31.656	0.00	0.00
ATOM	2888	HA3	GLY	X	188	19.183	44.961	32.061	0.00	0.00
ATOM	2889	C	GLY	X	188	17.304	44.496	32.550	0.00	0.00
ATOM	2890	O	GLY	X	188	16.355	45.259	32.307	0.00	0.00
ATOM	2891	N	ASP	X	189	17.430	43.919	33.750	0.00	0.00
ATOM	2892	H	ASP	X	189	18.134	43.202	33.856	0.00	0.00
ATOM	2893	CA	ASP	X	189	16.573	44.086	34.911	0.00	0.00
ATOM	2894	HA	ASP	X	189	15.641	44.559	34.604	0.00	0.00
ATOM	2895	CB	ASP	X	189	16.167	42.696	35.581	0.00	0.00
ATOM	2896	HB2	ASP	X	189	15.796	42.028	34.803	0.00	0.00
ATOM	2897	HB3	ASP	X	189	17.063	42.182	35.927	0.00	0.00
ATOM	2898	CG	ASP	X	189	15.127	42.742	36.804	0.00	0.00
ATOM	2899	OD1	ASP	X	189	14.937	41.721	37.556	0.00	0.00
ATOM	2900	OD2	ASP	X	189	14.692	43.903	37.073	0.00	0.00
ATOM	2901	C	ASP	X	189	17.187	44.974	36.041	0.00	0.00
ATOM	2902	O	ASP	X	189	18.019	44.539	36.787	0.00	0.00
ATOM	2903	N	PRO	X	190	16.645	46.204	36.229	0.00	0.00
ATOM	2904	CD	PRO	X	190	15.706	46.926	35.358	0.00	0.00
ATOM	2905	HD2	PRO	X	190	14.659	46.623	35.386	0.00	0.00

ATOM	2906	HD3	PRO	X	190	15.934	46.727	34.311	0.00	0.00
ATOM	2907	CG	PRO	X	190	15.806	48.433	35.760	0.00	0.00
ATOM	2908	HG2	PRO	X	190	14.948	49.101	35.689	0.00	0.00
ATOM	2909	HG3	PRO	X	190	16.602	48.897	35.177	0.00	0.00
ATOM	2910	CB	PRO	X	190	16.188	48.357	37.203	0.00	0.00
ATOM	2911	HB2	PRO	X	190	15.279	48.258	37.796	0.00	0.00
ATOM	2912	HB3	PRO	X	190	16.773	49.202	37.567	0.00	0.00
ATOM	2913	CA	PRO	X	190	17.055	47.125	37.363	0.00	0.00
ATOM	2914	HA	PRO	X	190	18.099	47.385	37.184	0.00	0.00
ATOM	2915	C	PRO	X	190	16.931	46.538	38.755	0.00	0.00
ATOM	2916	O	PRO	X	190	17.492	47.149	39.685	0.00	0.00
ATOM	2917	N	THR	X	191	16.251	45.373	38.993	0.00	0.00
ATOM	2918	H	THR	X	191	15.888	44.919	38.167	0.00	0.00
ATOM	2919	CA	THR	X	191	16.063	44.679	40.269	0.00	0.00
ATOM	2920	HA	THR	X	191	16.316	45.352	41.088	0.00	0.00
ATOM	2921	CB	THR	X	191	14.593	44.405	40.555	0.00	0.00
ATOM	2922	HB	THR	X	191	14.496	44.024	41.572	0.00	0.00
ATOM	2923	CG2	THR	X	191	13.683	45.663	40.458	0.00	0.00
ATOM	2924	HG21	THR	X	191	14.277	46.458	40.907	0.00	0.00
ATOM	2925	HG22	THR	X	191	12.818	45.388	41.062	0.00	0.00
ATOM	2926	HG23	THR	X	191	13.248	45.815	39.470	0.00	0.00
ATOM	2927	OG1	THR	X	191	14.065	43.356	39.803	0.00	0.00
ATOM	2928	HG1	THR	X	191	14.527	43.398	38.962	0.00	0.00
ATOM	2929	C	THR	X	191	16.884	43.466	40.553	0.00	0.00
ATOM	2930	O	THR	X	191	16.854	42.948	41.649	0.00	0.00
ATOM	2931	N	SER	X	192	17.656	43.012	39.541	0.00	0.00
ATOM	2932	H	SER	X	192	17.821	43.591	38.730	0.00	0.00
ATOM	2933	CA	SER	X	192	18.414	41.775	39.689	0.00	0.00
ATOM	2934	HA	SER	X	192	18.556	41.682	40.766	0.00	0.00
ATOM	2935	CB	SER	X	192	17.558	40.594	39.102	0.00	0.00
ATOM	2936	HB2	SER	X	192	17.589	40.515	38.016	0.00	0.00
ATOM	2937	HB3	SER	X	192	17.908	39.608	39.409	0.00	0.00
ATOM	2938	OG	SER	X	192	16.228	40.527	39.591	0.00	0.00
ATOM	2939	HG	SER	X	192	15.729	41.173	39.085	0.00	0.00
ATOM	2940	C	SER	X	192	19.851	41.956	39.116	0.00	0.00
ATOM	2941	O	SER	X	192	20.271	41.086	38.334	0.00	0.00
ATOM	2942	N	VAL	X	193	20.436	43.104	39.431	0.00	0.00
ATOM	2943	H	VAL	X	193	19.972	43.684	40.116	0.00	0.00
ATOM	2944	CA	VAL	X	193	21.856	43.451	39.094	0.00	0.00
ATOM	2945	HA	VAL	X	193	21.979	43.179	38.045	0.00	0.00
ATOM	2946	CB	VAL	X	193	21.983	45.017	39.184	0.00	0.00
ATOM	2947	HB	VAL	X	193	21.730	45.360	40.187	0.00	0.00
ATOM	2948	CG1	VAL	X	193	23.300	45.636	38.819	0.00	0.00
ATOM	2949	HG11	VAL	X	193	24.107	45.350	39.493	0.00	0.00
ATOM	2950	HG12	VAL	X	193	23.526	45.412	37.776	0.00	0.00
ATOM	2951	HG13	VAL	X	193	23.249	46.723	38.872	0.00	0.00
ATOM	2952	CG2	VAL	X	193	20.957	45.766	38.259	0.00	0.00
ATOM	2953	HG21	VAL	X	193	20.985	46.823	38.522	0.00	0.00
ATOM	2954	HG22	VAL	X	193	19.999	45.387	38.616	0.00	0.00
ATOM	2955	HG23	VAL	X	193	21.039	45.592	37.186	0.00	0.00
ATOM	2956	C	VAL	X	193	22.813	42.795	40.109	0.00	0.00
ATOM	2957	O	VAL	X	193	22.557	42.902	41.312	0.00	0.00
ATOM	2958	N	THR	X	194	23.872	42.179	39.517	0.00	0.00
ATOM	2959	H	THR	X	194	23.877	42.175	38.507	0.00	0.00
ATOM	2960	CA	THR	X	194	24.881	41.399	40.235	0.00	0.00
ATOM	2961	HA	THR	X	194	24.740	41.554	41.304	0.00	0.00
ATOM	2962	CB	THR	X	194	24.682	39.950	39.893	0.00	0.00
ATOM	2963	HB	THR	X	194	24.855	39.770	38.832	0.00	0.00
ATOM	2964	CG2	THR	X	194	25.689	39.094	40.700	0.00	0.00
ATOM	2965	HG21	THR	X	194	25.803	39.329	41.759	0.00	0.00
ATOM	2966	HG22	THR	X	194	26.662	39.200	40.221	0.00	0.00
ATOM	2967	HG23	THR	X	194	25.366	38.054	40.637	0.00	0.00
ATOM	2968	OG1	THR	X	194	23.408	39.575	40.281	0.00	0.00
ATOM	2969	HG1	THR	X	194	22.808	39.922	39.616	0.00	0.00
ATOM	2970	C	THR	X	194	26.249	41.932	39.870	0.00	0.00
ATOM	2971	O	THR	X	194	26.544	42.171	38.691	0.00	0.00
ATOM	2972	N	LEU	X	195	27.150	42.046	40.798	0.00	0.00

ATOM	2973	H	LEU	X	195	26.967	41.630	41.700	0.00	0.00
ATOM	2974	CA	LEU	X	195	28.515	42.407	40.569	0.00	0.00
ATOM	2975	HA	LEU	X	195	28.671	42.782	39.557	0.00	0.00
ATOM	2976	CB	LEU	X	195	29.018	43.467	41.548	0.00	0.00
ATOM	2977	HB2	LEU	X	195	29.375	43.021	42.476	0.00	0.00
ATOM	2978	HB3	LEU	X	195	29.977	43.820	41.168	0.00	0.00
ATOM	2979	CG	LEU	X	195	28.043	44.628	41.906	0.00	0.00
ATOM	2980	HG	LEU	X	195	27.211	44.265	42.509	0.00	0.00
ATOM	2981	CD1	LEU	X	195	28.971	45.490	42.822	0.00	0.00
ATOM	2982	HD11	LEU	X	195	29.020	45.006	43.798	0.00	0.00
ATOM	2983	HD12	LEU	X	195	28.624	46.502	43.030	0.00	0.00
ATOM	2984	HD13	LEU	X	195	29.953	45.618	42.369	0.00	0.00
ATOM	2985	CD2	LEU	X	195	27.506	45.465	40.753	0.00	0.00
ATOM	2986	HD21	LEU	X	195	26.874	44.810	40.154	0.00	0.00
ATOM	2987	HD22	LEU	X	195	27.081	46.419	41.065	0.00	0.00
ATOM	2988	HD23	LEU	X	195	28.384	45.739	40.167	0.00	0.00
ATOM	2989	C	LEU	X	195	29.354	41.130	40.783	0.00	0.00
ATOM	2990	O	LEU	X	195	29.353	40.513	41.807	0.00	0.00
ATOM	2991	N	PHE	X	196	30.195	40.762	39.772	0.00	0.00
ATOM	2992	H	PHE	X	196	30.228	41.402	38.990	0.00	0.00
ATOM	2993	CA	PHE	X	196	31.311	39.793	39.941	0.00	0.00
ATOM	2994	HA	PHE	X	196	31.360	39.482	40.984	0.00	0.00
ATOM	2995	CB	PHE	X	196	30.919	38.506	39.214	0.00	0.00
ATOM	2996	HB2	PHE	X	196	31.429	37.726	39.780	0.00	0.00
ATOM	2997	HB3	PHE	X	196	29.894	38.176	39.385	0.00	0.00
ATOM	2998	CG	PHE	X	196	31.104	38.387	37.737	0.00	0.00
ATOM	2999	CD1	PHE	X	196	30.310	39.248	36.899	0.00	0.00
ATOM	3000	HD1	PHE	X	196	29.725	40.060	37.303	0.00	0.00
ATOM	3001	CE1	PHE	X	196	30.309	39.007	35.521	0.00	0.00
ATOM	3002	HE1	PHE	X	196	29.720	39.593	34.832	0.00	0.00
ATOM	3003	CZ	PHE	X	196	31.029	37.958	34.998	0.00	0.00
ATOM	3004	HZ	PHE	X	196	31.122	37.661	33.964	0.00	0.00
ATOM	3005	CE2	PHE	X	196	31.782	37.117	35.838	0.00	0.00
ATOM	3006	HE2	PHE	X	196	32.357	36.322	35.388	0.00	0.00
ATOM	3007	CD2	PHE	X	196	31.830	37.321	37.208	0.00	0.00
ATOM	3008	HD2	PHE	X	196	32.323	36.629	37.874	0.00	0.00
ATOM	3009	C	PHE	X	196	32.758	40.333	39.578	0.00	0.00
ATOM	3010	O	PHE	X	196	32.882	41.232	38.723	0.00	0.00
ATOM	3011	N	GLY	X	197	33.701	39.843	40.337	0.00	0.00
ATOM	3012	H	GLY	X	197	33.456	39.108	40.985	0.00	0.00
ATOM	3013	CA	GLY	X	197	35.144	40.182	40.145	0.00	0.00
ATOM	3014	HA2	GLY	X	197	35.387	40.442	39.115	0.00	0.00
ATOM	3015	HA3	GLY	X	197	35.342	41.127	40.650	0.00	0.00
ATOM	3016	C	GLY	X	197	36.115	39.193	40.601	0.00	0.00
ATOM	3017	O	GLY	X	197	35.704	38.279	41.365	0.00	0.00
ATOM	3018	N	GLU	X	198	37.389	39.526	40.311	0.00	0.00
ATOM	3019	H	GLU	X	198	37.523	40.386	39.799	0.00	0.00
ATOM	3020	CA	GLU	X	198	38.478	38.745	40.835	0.00	0.00
ATOM	3021	HA	GLU	X	198	38.084	38.076	41.600	0.00	0.00
ATOM	3022	CB	GLU	X	198	39.054	37.882	39.723	0.00	0.00
ATOM	3023	HB2	GLU	X	198	39.895	37.284	40.073	0.00	0.00
ATOM	3024	HB3	GLU	X	198	38.233	37.176	39.596	0.00	0.00
ATOM	3025	CG	GLU	X	198	39.489	38.461	38.423	0.00	0.00
ATOM	3026	HG2	GLU	X	198	39.380	37.730	37.622	0.00	0.00
ATOM	3027	HG3	GLU	X	198	38.791	39.244	38.128	0.00	0.00
ATOM	3028	CD	GLU	X	198	40.913	39.023	38.373	0.00	0.00
ATOM	3029	OE1	GLU	X	198	41.137	39.651	37.318	0.00	0.00
ATOM	3030	OE2	GLU	X	198	41.719	38.860	39.271	0.00	0.00
ATOM	3031	C	GLU	X	198	39.404	39.741	41.433	0.00	0.00
ATOM	3032	O	GLU	X	198	39.632	40.809	40.868	0.00	0.00
ATOM	3033	N	XA1	X	199	40.130	39.273	42.456	0.00	0.00
ATOM	3034	CA	XA1	X	199	41.270	39.928	43.139	0.00	0.00
ATOM	3035	C	XA1	X	199	41.013	41.391	43.442	0.00	0.00
ATOM	3036	O	XA1	X	199	40.219	41.651	44.326	0.00	0.00
ATOM	3037	CB	XA1	X	199	42.581	39.735	42.286	0.00	0.00
ATOM	3038	OG	XA1	X	199	43.679	40.187	43.148	0.00	0.00
ATOM	3039	P1	XA1	X	199	44.849	40.905	42.405	0.00	0.00

ATOM	3040	O1	XA1	X	199	44.421	42.145	41.771	0.00	0.00
ATOM	3041	O2	XA1	X	199	45.757	40.224	41.450	0.00	0.00
ATOM	3042	C1	XA1	X	199	45.737	41.491	43.843	0.00	0.00
ATOM	3043	H	XA1	X	199	39.760	38.458	42.925	0.00	0.00
ATOM	3044	HA	XA1	X	199	41.520	39.369	44.041	0.00	0.00
ATOM	3045	HB2	XA1	X	199	42.825	38.681	42.133	0.00	0.00
ATOM	3046	HB3	XA1	X	199	42.627	40.341	41.378	0.00	0.00
ATOM	3047	H11	XA1	X	199	45.026	41.762	44.626	0.00	0.00
ATOM	3048	H12	XA1	X	199	46.377	40.679	44.196	0.00	0.00
ATOM	3049	H13	XA1	X	199	46.420	42.263	43.481	0.00	0.00
ATOM	3050	N	ALA	X	200	41.593	42.350	42.802	0.00	0.00
ATOM	3051	H	ALA	X	200	42.393	42.108	42.236	0.00	0.00
ATOM	3052	CA	ALA	X	200	41.359	43.788	43.207	0.00	0.00
ATOM	3053	HA	ALA	X	200	41.308	43.806	44.296	0.00	0.00
ATOM	3054	CB	ALA	X	200	42.516	44.656	42.680	0.00	0.00
ATOM	3055	HB1	ALA	X	200	42.223	45.675	42.931	0.00	0.00
ATOM	3056	HB2	ALA	X	200	42.520	44.640	41.590	0.00	0.00
ATOM	3057	HB3	ALA	X	200	43.438	44.416	43.208	0.00	0.00
ATOM	3058	C	ALA	X	200	40.000	44.381	42.752	0.00	0.00
ATOM	3059	O	ALA	X	200	39.520	45.368	43.235	0.00	0.00
ATOM	3060	N	GLY	X	201	39.349	43.529	41.950	0.00	0.00
ATOM	3061	H	GLY	X	201	39.785	42.691	41.592	0.00	0.00
ATOM	3062	CA	GLY	X	201	38.017	43.849	41.605	0.00	0.00
ATOM	3063	HA2	GLY	X	201	37.700	44.890	41.653	0.00	0.00
ATOM	3064	HA3	GLY	X	201	37.765	43.486	40.609	0.00	0.00
ATOM	3065	C	GLY	X	201	37.034	43.173	42.529	0.00	0.00
ATOM	3066	O	GLY	X	201	36.040	43.707	42.856	0.00	0.00
ATOM	3067	N	ALA	X	202	37.377	42.003	43.075	0.00	0.00
ATOM	3068	H	ALA	X	202	38.260	41.581	42.828	0.00	0.00
ATOM	3069	CA	ALA	X	202	36.644	41.438	44.242	0.00	0.00
ATOM	3070	HA	ALA	X	202	35.603	41.588	43.956	0.00	0.00
ATOM	3071	CB	ALA	X	202	37.044	39.905	44.318	0.00	0.00
ATOM	3072	HB1	ALA	X	202	36.849	39.469	43.339	0.00	0.00
ATOM	3073	HB2	ALA	X	202	36.433	39.398	45.065	0.00	0.00
ATOM	3074	HB3	ALA	X	202	38.091	39.854	44.616	0.00	0.00
ATOM	3075	C	ALA	X	202	36.903	42.202	45.526	0.00	0.00
ATOM	3076	O	ALA	X	202	35.995	42.219	46.360	0.00	0.00
ATOM	3077	N	ALA	X	203	38.007	42.918	45.694	0.00	0.00
ATOM	3078	H	ALA	X	203	38.813	42.707	45.123	0.00	0.00
ATOM	3079	CA	ALA	X	203	38.146	43.980	46.721	0.00	0.00
ATOM	3080	HA	ALA	X	203	37.746	43.612	47.666	0.00	0.00
ATOM	3081	CB	ALA	X	203	39.625	44.490	46.905	0.00	0.00
ATOM	3082	HB1	ALA	X	203	39.894	45.105	46.046	0.00	0.00
ATOM	3083	HB2	ALA	X	203	40.369	43.702	47.023	0.00	0.00
ATOM	3084	HB3	ALA	X	203	39.655	45.183	47.745	0.00	0.00
ATOM	3085	C	ALA	X	203	37.186	45.187	46.309	0.00	0.00
ATOM	3086	O	ALA	X	203	36.432	45.588	47.186	0.00	0.00
ATOM	3087	N	SER	X	204	37.166	45.648	45.076	0.00	0.00
ATOM	3088	H	SER	X	204	37.881	45.339	44.434	0.00	0.00
ATOM	3089	CA	SER	X	204	36.158	46.655	44.622	0.00	0.00
ATOM	3090	HA	SER	X	204	36.307	47.582	45.176	0.00	0.00
ATOM	3091	CB	SER	X	204	36.233	46.953	43.129	0.00	0.00
ATOM	3092	HB2	SER	X	204	36.066	45.965	42.698	0.00	0.00
ATOM	3093	HB3	SER	X	204	35.437	47.637	42.835	0.00	0.00
ATOM	3094	OG	SER	X	204	37.458	47.435	42.748	0.00	0.00
ATOM	3095	HG	SER	X	204	38.203	46.865	42.949	0.00	0.00
ATOM	3096	C	SER	X	204	34.671	46.290	44.843	0.00	0.00
ATOM	3097	O	SER	X	204	33.938	47.009	45.469	0.00	0.00
ATOM	3098	N	VAL	X	205	34.137	45.105	44.392	0.00	0.00
ATOM	3099	H	VAL	X	205	34.689	44.542	43.761	0.00	0.00
ATOM	3100	CA	VAL	X	205	32.785	44.565	44.707	0.00	0.00
ATOM	3101	HA	VAL	X	205	32.012	45.115	44.171	0.00	0.00
ATOM	3102	CB	VAL	X	205	32.712	43.145	44.109	0.00	0.00
ATOM	3103	HB	VAL	X	205	33.559	42.566	44.477	0.00	0.00
ATOM	3104	CG1	VAL	X	205	31.382	42.480	44.439	0.00	0.00
ATOM	3105	HG11	VAL	X	205	30.624	43.259	44.352	0.00	0.00
ATOM	3106	HG12	VAL	X	205	31.089	41.627	43.827	0.00	0.00

ATOM	3107	HG13	VAL	X	205	31.476	42.115	45.462	0.00	0.00
ATOM	3108	CG2	VAL	X	205	32.757	43.153	42.583	0.00	0.00
ATOM	3109	HG21	VAL	X	205	33.787	43.229	42.236	0.00	0.00
ATOM	3110	HG22	VAL	X	205	32.278	44.077	42.258	0.00	0.00
ATOM	3111	HG23	VAL	X	205	32.326	42.245	42.161	0.00	0.00
ATOM	3112	C	VAL	X	205	32.559	44.683	46.218	0.00	0.00
ATOM	3113	O	VAL	X	205	31.521	45.136	46.688	0.00	0.00
ATOM	3114	N	GLY	X	206	33.595	44.278	47.042	0.00	0.00
ATOM	3115	H	GLY	X	206	34.458	43.962	46.622	0.00	0.00
ATOM	3116	CA	GLY	X	206	33.505	44.362	48.496	0.00	0.00
ATOM	3117	HA2	GLY	X	206	32.601	43.839	48.811	0.00	0.00
ATOM	3118	HA3	GLY	X	206	34.424	43.943	48.907	0.00	0.00
ATOM	3119	C	GLY	X	206	33.392	45.747	49.062	0.00	0.00
ATOM	3120	O	GLY	X	206	32.459	45.995	49.831	0.00	0.00
ATOM	3121	N	MET	X	207	34.232	46.721	48.625	0.00	0.00
ATOM	3122	H	MET	X	207	34.848	46.524	47.850	0.00	0.00
ATOM	3123	CA	MET	X	207	34.109	48.111	49.131	0.00	0.00
ATOM	3124	HA	MET	X	207	34.264	48.132	50.210	0.00	0.00
ATOM	3125	CB	MET	X	207	35.287	48.889	48.687	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.306	48.863	47.597	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.239	49.933	48.998	0.00	0.00
ATOM	3128	CG	MET	X	207	36.577	48.367	49.342	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.394	48.422	50.415	0.00	0.00
ATOM	3130	HG3	MET	X	207	36.805	47.363	48.984	0.00	0.00
ATOM	3131	SD	MET	X	207	37.947	49.484	49.016	0.00	0.00
ATOM	3132	CE	MET	X	207	39.224	48.580	50.012	0.00	0.00
ATOM	3133	HE1	MET	X	207	38.901	48.407	51.038	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.531	47.656	49.522	0.00	0.00
ATOM	3135	HE3	MET	X	207	40.142	49.166	49.959	0.00	0.00
ATOM	3136	C	MET	X	207	32.815	48.812	48.700	0.00	0.00
ATOM	3137	O	MET	X	207	32.131	49.417	49.572	0.00	0.00
ATOM	3138	N	HIE	X	208	32.281	48.450	47.478	0.00	0.00
ATOM	3139	H	HIE	X	208	32.966	48.014	46.878	0.00	0.00
ATOM	3140	CA	HIE	X	208	30.942	48.876	46.991	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.013	49.962	47.045	0.00	0.00
ATOM	3142	CB	HIE	X	208	30.796	48.588	45.490	0.00	0.00
ATOM	3143	HB2	HIE	X	208	31.268	47.639	45.234	0.00	0.00
ATOM	3144	HB3	HIE	X	208	29.722	48.670	45.325	0.00	0.00
ATOM	3145	CG	HIE	X	208	31.531	49.498	44.557	0.00	0.00
ATOM	3146	ND1	HIE	X	208	31.545	50.909	44.596	0.00	0.00
ATOM	3147	CE1	HIE	X	208	32.424	51.286	43.652	0.00	0.00
ATOM	3148	HE1	HIE	X	208	32.661	52.289	43.328	0.00	0.00
ATOM	3149	NE2	HIE	X	208	33.085	50.245	43.135	0.00	0.00
ATOM	3150	HE2	HIE	X	208	33.794	50.349	42.423	0.00	0.00
ATOM	3151	CD2	HIE	X	208	32.479	49.104	43.589	0.00	0.00
ATOM	3152	HD2	HIE	X	208	32.720	48.082	43.335	0.00	0.00
ATOM	3153	C	HIE	X	208	29.725	48.381	47.833	0.00	0.00
ATOM	3154	O	HIE	X	208	28.624	48.893	47.644	0.00	0.00
ATOM	3155	N	LEU	X	209	29.920	47.411	48.712	0.00	0.00
ATOM	3156	H	LEU	X	209	30.865	47.061	48.786	0.00	0.00
ATOM	3157	CA	LEU	X	209	28.875	46.762	49.610	0.00	0.00
ATOM	3158	HA	LEU	X	209	27.869	46.973	49.246	0.00	0.00
ATOM	3159	CB	LEU	X	209	29.163	45.195	49.614	0.00	0.00
ATOM	3160	HB2	LEU	X	209	29.189	44.743	48.623	0.00	0.00
ATOM	3161	HB3	LEU	X	209	30.216	45.039	49.848	0.00	0.00
ATOM	3162	CG	LEU	X	209	28.340	44.301	50.575	0.00	0.00
ATOM	3163	HG	LEU	X	209	28.549	44.508	51.624	0.00	0.00
ATOM	3164	CD1	LEU	X	209	26.844	44.361	50.320	0.00	0.00
ATOM	3165	HD11	LEU	X	209	26.258	43.690	50.949	0.00	0.00
ATOM	3166	HD12	LEU	X	209	26.564	44.111	49.296	0.00	0.00
ATOM	3167	HD13	LEU	X	209	26.482	45.372	50.507	0.00	0.00
ATOM	3168	CD2	LEU	X	209	28.770	42.817	50.423	0.00	0.00
ATOM	3169	HD21	LEU	X	209	29.747	42.680	50.887	0.00	0.00
ATOM	3170	HD22	LEU	X	209	28.047	42.177	50.929	0.00	0.00
ATOM	3171	HD23	LEU	X	209	28.730	42.571	49.362	0.00	0.00
ATOM	3172	C	LEU	X	209	29.053	47.316	51.063	0.00	0.00
ATOM	3173	O	LEU	X	209	28.051	47.590	51.723	0.00	0.00

ATOM	3174	N	LEU	X	210	30.288	47.738	51.497	0.00	0.00
ATOM	3175	H	LEU	X	210	31.072	47.563	50.884	0.00	0.00
ATOM	3176	CA	LEU	X	210	30.432	48.481	52.744	0.00	0.00
ATOM	3177	HA	LEU	X	210	29.847	48.063	53.563	0.00	0.00
ATOM	3178	CB	LEU	X	210	31.952	48.472	53.063	0.00	0.00
ATOM	3179	HB2	LEU	X	210	32.444	49.154	52.370	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.110	48.940	54.035	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.757	47.133	53.107	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.813	46.652	52.130	0.00	0.00
ATOM	3183	CD1	LEU	X	210	34.207	47.632	53.383	0.00	0.00
ATOM	3184	HD11	LEU	X	210	34.456	48.442	52.697	0.00	0.00
ATOM	3185	HD12	LEU	X	210	34.884	46.866	53.005	0.00	0.00
ATOM	3186	HD13	LEU	X	210	34.378	47.870	54.433	0.00	0.00
ATOM	3187	CD2	LEU	X	210	32.251	46.033	54.071	0.00	0.00
ATOM	3188	HD21	LEU	X	210	31.283	45.640	53.761	0.00	0.00
ATOM	3189	HD22	LEU	X	210	32.997	45.238	54.072	0.00	0.00
ATOM	3190	HD23	LEU	X	210	32.235	46.532	55.040	0.00	0.00
ATOM	3191	C	LEU	X	210	29.985	49.984	52.616	0.00	0.00
ATOM	3192	O	LEU	X	210	29.218	50.498	53.454	0.00	0.00
ATOM	3193	N	SER	X	211	30.342	50.628	51.477	0.00	0.00
ATOM	3194	H	SER	X	211	30.950	50.105	50.863	0.00	0.00
ATOM	3195	CA	SER	X	211	29.949	51.958	51.205	0.00	0.00
ATOM	3196	HA	SER	X	211	29.994	52.599	52.086	0.00	0.00
ATOM	3197	CB	SER	X	211	30.908	52.596	50.186	0.00	0.00
ATOM	3198	HB2	SER	X	211	31.942	52.495	50.516	0.00	0.00
ATOM	3199	HB3	SER	X	211	30.784	52.115	49.216	0.00	0.00
ATOM	3200	OG	SER	X	211	30.632	54.010	50.127	0.00	0.00
ATOM	3201	HG	SER	X	211	30.740	54.327	51.027	0.00	0.00
ATOM	3202	C	SER	X	211	28.538	52.113	50.667	0.00	0.00
ATOM	3203	O	SER	X	211	28.248	51.738	49.532	0.00	0.00
ATOM	3204	N	PRO	X	212	27.646	52.813	51.410	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.772	53.430	52.758	0.00	0.00
ATOM	3206	HD2	PRO	X	212	28.308	54.352	52.533	0.00	0.00
ATOM	3207	HD3	PRO	X	212	28.406	52.827	53.409	0.00	0.00
ATOM	3208	CG	PRO	X	212	26.373	53.600	53.396	0.00	0.00
ATOM	3209	HG2	PRO	X	212	26.377	54.613	53.799	0.00	0.00
ATOM	3210	HG3	PRO	X	212	26.170	52.718	54.004	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.441	53.406	52.229	0.00	0.00
ATOM	3212	HB2	PRO	X	212	25.062	54.343	51.820	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.587	52.786	52.502	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.170	52.778	51.068	0.00	0.00
ATOM	3215	HA	PRO	X	212	26.000	51.703	51.132	0.00	0.00
ATOM	3216	C	PRO	X	212	25.751	53.373	49.676	0.00	0.00
ATOM	3217	O	PRO	X	212	24.807	52.913	49.024	0.00	0.00
ATOM	3218	N	PRO	X	213	26.382	54.492	49.252	0.00	0.00
ATOM	3219	CD	PRO	X	213	27.283	55.383	50.038	0.00	0.00
ATOM	3220	HD2	PRO	X	213	28.295	54.980	50.000	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.856	55.520	51.032	0.00	0.00
ATOM	3222	CG	PRO	X	213	27.469	56.722	49.340	0.00	0.00
ATOM	3223	HG2	PRO	X	213	28.523	56.992	49.407	0.00	0.00
ATOM	3224	HG3	PRO	X	213	26.827	57.559	49.614	0.00	0.00
ATOM	3225	CB	PRO	X	213	27.084	56.329	47.908	0.00	0.00
ATOM	3226	HB2	PRO	X	213	27.965	55.959	47.384	0.00	0.00
ATOM	3227	HB3	PRO	X	213	26.554	57.089	47.335	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.139	55.110	47.970	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.180	55.614	48.090	0.00	0.00
ATOM	3230	C	PRO	X	213	26.279	54.256	46.728	0.00	0.00
ATOM	3231	O	PRO	X	213	25.628	54.577	45.792	0.00	0.00
ATOM	3232	N	SER	X	214	27.098	53.210	46.771	0.00	0.00
ATOM	3233	H	SER	X	214	27.587	52.936	47.611	0.00	0.00
ATOM	3234	CA	SER	X	214	27.096	52.180	45.730	0.00	0.00
ATOM	3235	HA	SER	X	214	26.810	52.692	44.811	0.00	0.00
ATOM	3236	CB	SER	X	214	28.473	51.619	45.455	0.00	0.00
ATOM	3237	HB2	SER	X	214	28.867	50.951	46.221	0.00	0.00
ATOM	3238	HB3	SER	X	214	28.457	51.096	44.500	0.00	0.00
ATOM	3239	OG	SER	X	214	29.491	52.612	45.418	0.00	0.00
ATOM	3240	HG	SER	X	214	30.354	52.205	45.312	0.00	0.00

ATOM	3241	C	SER	X	214	25.983	51.173	46.025	0.00	0.00
ATOM	3242	O	SER	X	214	25.226	50.747	45.154	0.00	0.00
ATOM	3243	N	ARG	X	215	25.948	50.707	47.300	0.00	0.00
ATOM	3244	H	ARG	X	215	26.646	51.017	47.962	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.039	49.629	47.791	0.00	0.00
ATOM	3246	HA	ARG	X	215	25.410	48.710	47.339	0.00	0.00
ATOM	3247	CB	ARG	X	215	25.135	49.513	49.286	0.00	0.00
ATOM	3248	HB2	ARG	X	215	26.188	49.583	49.558	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.669	50.375	49.763	0.00	0.00
ATOM	3250	CG	ARG	X	215	24.466	48.256	49.827	0.00	0.00
ATOM	3251	HG2	ARG	X	215	23.415	48.293	49.543	0.00	0.00
ATOM	3252	HG3	ARG	X	215	24.835	47.395	49.270	0.00	0.00
ATOM	3253	CD	ARG	X	215	24.712	48.150	51.351	0.00	0.00
ATOM	3254	HD2	ARG	X	215	25.602	47.530	51.457	0.00	0.00
ATOM	3255	HD3	ARG	X	215	24.830	49.137	51.800	0.00	0.00
ATOM	3256	NE	ARG	X	215	23.603	47.481	52.082	0.00	0.00
ATOM	3257	HE	ARG	X	215	22.653	47.512	51.741	0.00	0.00
ATOM	3258	CZ	ARG	X	215	23.764	46.685	53.154	0.00	0.00
ATOM	3259	NH1	ARG	X	215	24.940	46.694	53.876	0.00	0.00
ATOM	3260	HH11	ARG	X	215	25.750	47.253	53.648	0.00	0.00
ATOM	3261	HH12	ARG	X	215	24.891	46.100	54.691	0.00	0.00
ATOM	3262	NH2	ARG	X	215	22.740	45.931	53.474	0.00	0.00
ATOM	3263	HH21	ARG	X	215	21.961	45.787	52.847	0.00	0.00
ATOM	3264	HH22	ARG	X	215	22.712	45.368	54.311	0.00	0.00
ATOM	3265	C	ARG	X	215	23.598	49.745	47.344	0.00	0.00
ATOM	3266	O	ARG	X	215	22.905	48.727	47.253	0.00	0.00
ATOM	3267	N	GLY	X	216	23.088	50.967	47.032	0.00	0.00
ATOM	3268	H	GLY	X	216	23.584	51.839	47.150	0.00	0.00
ATOM	3269	CA	GLY	X	216	21.663	51.121	46.511	0.00	0.00
ATOM	3270	HA2	GLY	X	216	20.915	50.453	46.939	0.00	0.00
ATOM	3271	HA3	GLY	X	216	21.403	52.179	46.501	0.00	0.00
ATOM	3272	C	GLY	X	216	21.553	50.723	44.997	0.00	0.00
ATOM	3273	O	GLY	X	216	20.433	50.764	44.472	0.00	0.00
ATOM	3274	N	LEU	X	217	22.600	50.432	44.289	0.00	0.00
ATOM	3275	H	LEU	X	217	23.506	50.337	44.723	0.00	0.00
ATOM	3276	CA	LEU	X	217	22.589	50.311	42.850	0.00	0.00
ATOM	3277	HA	LEU	X	217	21.827	50.795	42.239	0.00	0.00
ATOM	3278	CB	LEU	X	217	23.868	50.964	42.332	0.00	0.00
ATOM	3279	HB2	LEU	X	217	24.787	50.477	42.656	0.00	0.00
ATOM	3280	HB3	LEU	X	217	24.013	50.791	41.266	0.00	0.00
ATOM	3281	CG	LEU	X	217	23.958	52.444	42.713	0.00	0.00
ATOM	3282	HG	LEU	X	217	23.987	52.554	43.797	0.00	0.00
ATOM	3283	CD1	LEU	X	217	25.290	52.993	42.257	0.00	0.00
ATOM	3284	HD11	LEU	X	217	26.085	52.410	42.721	0.00	0.00
ATOM	3285	HD12	LEU	X	217	25.325	54.070	42.423	0.00	0.00
ATOM	3286	HD13	LEU	X	217	25.337	52.890	41.173	0.00	0.00
ATOM	3287	CD2	LEU	X	217	22.906	53.205	41.929	0.00	0.00
ATOM	3288	HD21	LEU	X	217	22.951	54.286	42.062	0.00	0.00
ATOM	3289	HD22	LEU	X	217	22.937	53.008	40.857	0.00	0.00
ATOM	3290	HD23	LEU	X	217	21.908	52.885	42.227	0.00	0.00
ATOM	3291	C	LEU	X	217	22.565	48.793	42.465	0.00	0.00
ATOM	3292	O	LEU	X	217	22.281	48.570	41.306	0.00	0.00
ATOM	3293	N	PHE	X	218	22.818	47.824	43.361	0.00	0.00
ATOM	3294	H	PHE	X	218	22.959	48.038	44.337	0.00	0.00
ATOM	3295	CA	PHE	X	218	22.845	46.422	43.061	0.00	0.00
ATOM	3296	HA	PHE	X	218	22.195	46.202	42.214	0.00	0.00
ATOM	3297	CB	PHE	X	218	24.307	46.126	42.663	0.00	0.00
ATOM	3298	HB2	PHE	X	218	24.251	45.101	42.296	0.00	0.00
ATOM	3299	HB3	PHE	X	218	24.539	46.703	41.768	0.00	0.00
ATOM	3300	CG	PHE	X	218	25.375	46.188	43.751	0.00	0.00
ATOM	3301	CD1	PHE	X	218	25.999	47.411	44.131	0.00	0.00
ATOM	3302	HD1	PHE	X	218	25.831	48.394	43.718	0.00	0.00
ATOM	3303	CE1	PHE	X	218	26.773	47.422	45.272	0.00	0.00
ATOM	3304	HE1	PHE	X	218	27.210	48.324	45.673	0.00	0.00
ATOM	3305	CZ	PHE	X	218	27.153	46.210	45.880	0.00	0.00
ATOM	3306	HZ	PHE	X	218	27.806	46.228	46.740	0.00	0.00
ATOM	3307	CE2	PHE	X	218	26.601	45.022	45.476	0.00	0.00

ATOM	3308	HE2	PHE	X	218	26.950	44.132	45.978	0.00	0.00
ATOM	3309	CD2	PHE	X	218	25.715	44.991	44.411	0.00	0.00
ATOM	3310	HD2	PHE	X	218	25.267	44.071	44.066	0.00	0.00
ATOM	3311	C	PHE	X	218	22.330	45.654	44.240	0.00	0.00
ATOM	3312	O	PHE	X	218	22.364	46.142	45.387	0.00	0.00
ATOM	3313	N	HIE	X	219	22.106	44.347	43.994	0.00	0.00
ATOM	3314	H	HIE	X	219	22.015	44.085	43.023	0.00	0.00
ATOM	3315	CA	HIE	X	219	21.363	43.381	44.855	0.00	0.00
ATOM	3316	HA	HIE	X	219	21.090	43.882	45.784	0.00	0.00
ATOM	3317	CB	HIE	X	219	20.141	42.962	43.963	0.00	0.00
ATOM	3318	HB2	HIE	X	219	20.469	42.484	43.040	0.00	0.00
ATOM	3319	HB3	HIE	X	219	19.327	42.427	44.450	0.00	0.00
ATOM	3320	CG	HIE	X	219	19.518	44.194	43.299	0.00	0.00
ATOM	3321	ND1	HIE	X	219	19.793	44.567	41.935	0.00	0.00
ATOM	3322	CE1	HIE	X	219	19.299	45.857	41.864	0.00	0.00
ATOM	3323	HE1	HIE	X	219	19.629	46.584	41.136	0.00	0.00
ATOM	3324	NE2	HIE	X	219	18.890	46.293	43.079	0.00	0.00
ATOM	3325	HE2	HIE	X	219	18.775	47.243	43.404	0.00	0.00
ATOM	3326	CD2	HIE	X	219	19.007	45.242	43.994	0.00	0.00
ATOM	3327	HD2	HIE	X	219	18.770	45.244	45.047	0.00	0.00
ATOM	3328	C	HIE	X	219	22.222	42.192	45.293	0.00	0.00
ATOM	3329	O	HIE	X	219	22.095	41.716	46.377	0.00	0.00
ATOM	3330	N	ARG	X	220	23.072	41.805	44.373	0.00	0.00
ATOM	3331	H	ARG	X	220	23.078	42.338	43.515	0.00	0.00
ATOM	3332	CA	ARG	X	220	23.942	40.653	44.610	0.00	0.00
ATOM	3333	HA	ARG	X	220	23.918	40.518	45.691	0.00	0.00
ATOM	3334	CB	ARG	X	220	23.356	39.417	43.862	0.00	0.00
ATOM	3335	HB2	ARG	X	220	23.374	39.588	42.785	0.00	0.00
ATOM	3336	HB3	ARG	X	220	24.094	38.615	43.893	0.00	0.00
ATOM	3337	CG	ARG	X	220	22.011	38.916	44.308	0.00	0.00
ATOM	3338	HG2	ARG	X	220	22.188	38.580	45.330	0.00	0.00
ATOM	3339	HG3	ARG	X	220	21.357	39.787	44.322	0.00	0.00
ATOM	3340	CD	ARG	X	220	21.496	37.638	43.623	0.00	0.00
ATOM	3341	HD2	ARG	X	220	21.548	37.689	42.536	0.00	0.00
ATOM	3342	HD3	ARG	X	220	21.996	36.738	43.982	0.00	0.00
ATOM	3343	NE	ARG	X	220	20.176	37.335	44.065	0.00	0.00
ATOM	3344	HE	ARG	X	220	19.948	37.064	45.011	0.00	0.00
ATOM	3345	CZ	ARG	X	220	19.066	37.385	43.370	0.00	0.00
ATOM	3346	NH1	ARG	X	220	19.077	37.671	42.112	0.00	0.00
ATOM	3347	HH11	ARG	X	220	19.939	37.857	41.619	0.00	0.00
ATOM	3348	HH12	ARG	X	220	18.254	37.561	41.537	0.00	0.00
ATOM	3349	NH2	ARG	X	220	17.847	37.172	43.914	0.00	0.00
ATOM	3350	HH21	ARG	X	220	17.788	36.726	44.819	0.00	0.00
ATOM	3351	HH22	ARG	X	220	16.962	37.326	43.454	0.00	0.00
ATOM	3352	C	ARG	X	220	25.407	40.882	44.367	0.00	0.00
ATOM	3353	O	ARG	X	220	25.696	41.709	43.534	0.00	0.00
ATOM	3354	N	ALA	X	221	26.252	40.125	45.053	0.00	0.00
ATOM	3355	H	ALA	X	221	25.806	39.374	45.560	0.00	0.00
ATOM	3356	CA	ALA	X	221	27.714	40.314	44.923	0.00	0.00
ATOM	3357	HA	ALA	X	221	27.941	40.870	44.013	0.00	0.00
ATOM	3358	CB	ALA	X	221	28.347	41.030	46.165	0.00	0.00
ATOM	3359	HB1	ALA	X	221	27.954	40.506	47.036	0.00	0.00
ATOM	3360	HB2	ALA	X	221	28.099	42.078	46.335	0.00	0.00
ATOM	3361	HB3	ALA	X	221	29.395	40.943	45.876	0.00	0.00
ATOM	3362	C	ALA	X	221	28.348	38.895	44.793	0.00	0.00
ATOM	3363	O	ALA	X	221	27.949	37.971	45.455	0.00	0.00
ATOM	3364	N	VAL	X	222	29.332	38.725	43.864	0.00	0.00
ATOM	3365	H	VAL	X	222	29.629	39.527	43.328	0.00	0.00
ATOM	3366	CA	VAL	X	222	30.259	37.552	43.862	0.00	0.00
ATOM	3367	HA	VAL	X	222	29.982	36.854	44.652	0.00	0.00
ATOM	3368	CB	VAL	X	222	30.150	36.849	42.457	0.00	0.00
ATOM	3369	HB	VAL	X	222	30.264	37.670	41.750	0.00	0.00
ATOM	3370	CG1	VAL	X	222	31.220	35.770	42.144	0.00	0.00
ATOM	3371	HG11	VAL	X	222	31.238	34.957	42.870	0.00	0.00
ATOM	3372	HG12	VAL	X	222	30.977	35.504	41.115	0.00	0.00
ATOM	3373	HG13	VAL	X	222	32.198	36.249	42.183	0.00	0.00
ATOM	3374	CG2	VAL	X	222	28.688	36.387	42.261	0.00	0.00

ATOM	3375	HG21	VAL	X	222	28.357	35.847	43.148	0.00	0.00
ATOM	3376	HG22	VAL	X	222	28.565	35.787	41.360	0.00	0.00
ATOM	3377	HG23	VAL	X	222	28.007	37.235	42.186	0.00	0.00
ATOM	3378	C	VAL	X	222	31.675	37.992	44.097	0.00	0.00
ATOM	3379	O	VAL	X	222	32.111	38.926	43.433	0.00	0.00
ATOM	3380	N	LEU	X	223	32.401	37.298	45.026	0.00	0.00
ATOM	3381	H	LEU	X	223	32.033	36.432	45.393	0.00	0.00
ATOM	3382	CA	LEU	X	223	33.862	37.513	45.248	0.00	0.00
ATOM	3383	HA	LEU	X	223	34.147	38.325	44.578	0.00	0.00
ATOM	3384	CB	LEU	X	223	34.200	38.035	46.657	0.00	0.00
ATOM	3385	HB2	LEU	X	223	33.939	37.329	47.445	0.00	0.00
ATOM	3386	HB3	LEU	X	223	35.263	38.276	46.619	0.00	0.00
ATOM	3387	CG	LEU	X	223	33.482	39.322	47.139	0.00	0.00
ATOM	3388	HG	LEU	X	223	33.449	39.948	46.247	0.00	0.00
ATOM	3389	CD1	LEU	X	223	32.109	39.177	47.778	0.00	0.00
ATOM	3390	HD11	LEU	X	223	31.724	40.114	48.179	0.00	0.00
ATOM	3391	HD12	LEU	X	223	32.181	38.444	48.582	0.00	0.00
ATOM	3392	HD13	LEU	X	223	31.408	38.787	47.039	0.00	0.00
ATOM	3393	CD2	LEU	X	223	34.508	39.970	48.142	0.00	0.00
ATOM	3394	HD21	LEU	X	223	34.527	39.417	49.082	0.00	0.00
ATOM	3395	HD22	LEU	X	223	35.498	40.104	47.706	0.00	0.00
ATOM	3396	HD23	LEU	X	223	34.148	40.994	48.237	0.00	0.00
ATOM	3397	C	LEU	X	223	34.715	36.381	44.808	0.00	0.00
ATOM	3398	O	LEU	X	223	34.344	35.221	45.003	0.00	0.00
ATOM	3399	N	GLN	X	224	35.816	36.670	44.096	0.00	0.00
ATOM	3400	H	GLN	X	224	36.125	37.610	43.894	0.00	0.00
ATOM	3401	CA	GLN	X	224	36.752	35.576	43.712	0.00	0.00
ATOM	3402	HA	GLN	X	224	36.654	34.674	44.316	0.00	0.00
ATOM	3403	CB	GLN	X	224	36.523	35.050	42.226	0.00	0.00
ATOM	3404	HB2	GLN	X	224	36.800	35.864	41.555	0.00	0.00
ATOM	3405	HB3	GLN	X	224	37.158	34.177	42.078	0.00	0.00
ATOM	3406	CG	GLN	X	224	35.104	34.547	41.964	0.00	0.00
ATOM	3407	HG2	GLN	X	224	34.849	33.898	42.801	0.00	0.00
ATOM	3408	HG3	GLN	X	224	34.441	35.411	42.024	0.00	0.00
ATOM	3409	CD	GLN	X	224	34.908	34.035	40.575	0.00	0.00
ATOM	3410	OE1	GLN	X	224	34.080	34.506	39.734	0.00	0.00
ATOM	3411	NE2	GLN	X	224	35.582	33.053	40.101	0.00	0.00
ATOM	3412	HE21	GLN	X	224	35.377	32.825	39.139	0.00	0.00
ATOM	3413	HE22	GLN	X	224	36.449	32.795	40.550	0.00	0.00
ATOM	3414	C	GLN	X	224	38.181	36.000	43.983	0.00	0.00
ATOM	3415	O	GLN	X	224	38.533	37.156	43.664	0.00	0.00
ATOM	3416	N	SER	X	225	39.022	35.136	44.556	0.00	0.00
ATOM	3417	H	SER	X	225	38.703	34.216	44.824	0.00	0.00
ATOM	3418	CA	SER	X	225	40.465	35.500	44.693	0.00	0.00
ATOM	3419	HA	SER	X	225	40.901	34.786	45.392	0.00	0.00
ATOM	3420	CB	SER	X	225	41.208	35.320	43.346	0.00	0.00
ATOM	3421	HB2	SER	X	225	40.751	35.854	42.513	0.00	0.00
ATOM	3422	HB3	SER	X	225	42.099	35.945	43.401	0.00	0.00
ATOM	3423	OG	SER	X	225	41.471	33.977	42.920	0.00	0.00
ATOM	3424	HG	SER	X	225	41.749	33.461	43.680	0.00	0.00
ATOM	3425	C	SER	X	225	40.933	36.847	45.377	0.00	0.00
ATOM	3426	O	SER	X	225	42.122	37.174	45.577	0.00	0.00
ATOM	3427	N	GLY	X	226	40.008	37.516	45.964	0.00	0.00
ATOM	3428	H	GLY	X	226	39.018	37.351	45.847	0.00	0.00
ATOM	3429	CA	GLY	X	226	40.365	38.608	46.871	0.00	0.00
ATOM	3430	HA2	GLY	X	226	41.171	38.245	47.510	0.00	0.00
ATOM	3431	HA3	GLY	X	226	40.726	39.434	46.258	0.00	0.00
ATOM	3432	C	GLY	X	226	39.188	39.057	47.782	0.00	0.00
ATOM	3433	O	GLY	X	226	38.022	39.082	47.307	0.00	0.00
ATOM	3434	N	ALA	X	227	39.531	39.356	49.080	0.00	0.00
ATOM	3435	H	ALA	X	227	40.469	39.138	49.385	0.00	0.00
ATOM	3436	CA	ALA	X	227	38.588	40.116	49.950	0.00	0.00
ATOM	3437	HA	ALA	X	227	37.585	40.006	49.538	0.00	0.00
ATOM	3438	CB	ALA	X	227	38.501	39.269	51.311	0.00	0.00
ATOM	3439	HB1	ALA	X	227	38.261	38.263	50.968	0.00	0.00
ATOM	3440	HB2	ALA	X	227	37.635	39.493	51.933	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.478	39.360	51.785	0.00	0.00

ATOM	3442	C	ALA	X	227	39.066	41.603	50.067	0.00	0.00
ATOM	3443	O	ALA	X	227	40.230	41.908	49.891	0.00	0.00
ATOM	3444	N	PRO	X	228	38.119	42.548	50.287	0.00	0.00
ATOM	3445	CD	PRO	X	228	36.723	42.235	50.587	0.00	0.00
ATOM	3446	HD2	PRO	X	228	36.597	41.450	51.332	0.00	0.00
ATOM	3447	HD3	PRO	X	228	36.201	42.004	49.658	0.00	0.00
ATOM	3448	CG	PRO	X	228	36.104	43.517	51.269	0.00	0.00
ATOM	3449	HG2	PRO	X	228	36.313	43.463	52.337	0.00	0.00
ATOM	3450	HG3	PRO	X	228	35.057	43.728	51.052	0.00	0.00
ATOM	3451	CB	PRO	X	228	36.966	44.571	50.622	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.100	45.535	51.113	0.00	0.00
ATOM	3453	HB3	PRO	X	228	36.602	44.693	49.602	0.00	0.00
ATOM	3454	CA	PRO	X	228	38.339	43.971	50.482	0.00	0.00
ATOM	3455	HA	PRO	X	228	38.911	44.317	49.621	0.00	0.00
ATOM	3456	C	PRO	X	228	39.265	44.270	51.659	0.00	0.00
ATOM	3457	O	PRO	X	228	40.017	45.173	51.626	0.00	0.00
ATOM	3458	N	ASN	X	229	39.174	43.509	52.741	0.00	0.00
ATOM	3459	H	ASN	X	229	38.432	42.824	52.721	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.051	43.525	53.868	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.324	44.552	54.110	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.303	42.905	55.077	0.00	0.00
ATOM	3463	HB2	ASN	X	229	39.953	42.760	55.939	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.636	43.683	55.448	0.00	0.00
ATOM	3465	CG	ASN	X	229	38.577	41.582	54.774	0.00	0.00
ATOM	3466	OD1	ASN	X	229	37.618	41.465	54.035	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.091	40.480	55.308	0.00	0.00
ATOM	3468	HD21	ASN	X	229	38.699	39.613	54.969	0.00	0.00
ATOM	3469	HD22	ASN	X	229	39.906	40.561	55.899	0.00	0.00
ATOM	3470	C	ASN	X	229	41.341	42.788	53.720	0.00	0.00
ATOM	3471	O	ASN	X	229	42.108	42.852	54.652	0.00	0.00
ATOM	3472	N	GLY	X	230	41.732	42.449	52.479	0.00	0.00
ATOM	3473	H	GLY	X	230	41.104	42.445	51.687	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.120	42.037	52.085	0.00	0.00
ATOM	3475	HA2	GLY	X	230	43.326	41.084	52.573	0.00	0.00
ATOM	3476	HA3	GLY	X	230	43.213	42.160	51.006	0.00	0.00
ATOM	3477	C	GLY	X	230	44.130	43.026	52.596	0.00	0.00
ATOM	3478	O	GLY	X	230	43.866	44.194	52.313	0.00	0.00
ATOM	3479	N	PRO	X	231	45.299	42.625	53.160	0.00	0.00
ATOM	3480	CD	PRO	X	231	45.681	41.297	53.549	0.00	0.00
ATOM	3481	HD2	PRO	X	231	45.933	40.667	52.696	0.00	0.00
ATOM	3482	HD3	PRO	X	231	44.881	40.736	54.032	0.00	0.00
ATOM	3483	CG	PRO	X	231	46.872	41.361	54.539	0.00	0.00
ATOM	3484	HG2	PRO	X	231	47.669	40.695	54.208	0.00	0.00
ATOM	3485	HG3	PRO	X	231	46.511	41.146	55.544	0.00	0.00
ATOM	3486	CB	PRO	X	231	47.347	42.816	54.333	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.175	42.735	53.629	0.00	0.00
ATOM	3488	HB3	PRO	X	231	47.794	43.226	55.238	0.00	0.00
ATOM	3489	CA	PRO	X	231	46.231	43.546	53.697	0.00	0.00
ATOM	3490	HA	PRO	X	231	45.789	44.199	54.449	0.00	0.00
ATOM	3491	C	PRO	X	231	46.740	44.464	52.629	0.00	0.00
ATOM	3492	O	PRO	X	231	47.199	45.601	52.829	0.00	0.00
ATOM	3493	N	TRP	X	232	46.680	43.994	51.346	0.00	0.00
ATOM	3494	H	TRP	X	232	46.404	43.044	51.142	0.00	0.00
ATOM	3495	CA	TRP	X	232	47.105	44.710	50.188	0.00	0.00
ATOM	3496	HA	TRP	X	232	48.011	45.259	50.446	0.00	0.00
ATOM	3497	CB	TRP	X	232	47.517	43.662	49.117	0.00	0.00
ATOM	3498	HB2	TRP	X	232	47.817	44.164	48.197	0.00	0.00
ATOM	3499	HB3	TRP	X	232	48.398	43.102	49.431	0.00	0.00
ATOM	3500	CG	TRP	X	232	46.447	42.656	48.894	0.00	0.00
ATOM	3501	CD1	TRP	X	232	46.325	41.518	49.630	0.00	0.00
ATOM	3502	HD1	TRP	X	232	46.954	41.267	50.472	0.00	0.00
ATOM	3503	NE1	TRP	X	232	45.217	40.830	49.120	0.00	0.00
ATOM	3504	HE1	TRP	X	232	45.085	39.893	49.471	0.00	0.00
ATOM	3505	CE2	TRP	X	232	44.667	41.420	48.065	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	43.591	41.043	47.234	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	43.092	40.087	47.293	0.00	0.00
ATOM	3508	CH2	TRP	X	232	43.100	41.956	46.315	0.00	0.00

ATOM	3509	HH2	TRP	X	232	42.390	41.610	45.578	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	43.715	43.267	46.307	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	43.317	44.011	45.634	0.00	0.00
ATOM	3512	CE3	TRP	X	232	44.851	43.549	46.997	0.00	0.00
ATOM	3513	HE3	TRP	X	232	45.279	44.531	46.861	0.00	0.00
ATOM	3514	CD2	TRP	X	232	45.373	42.614	47.884	0.00	0.00
ATOM	3515	C	TRP	X	232	46.113	45.713	49.640	0.00	0.00
ATOM	3516	O	TRP	X	232	46.391	46.523	48.701	0.00	0.00
ATOM	3517	N	ALA	X	233	44.915	45.661	50.193	0.00	0.00
ATOM	3518	H	ALA	X	233	44.714	44.932	50.864	0.00	0.00
ATOM	3519	CA	ALA	X	233	43.669	46.219	49.551	0.00	0.00
ATOM	3520	HA	ALA	X	233	43.806	46.428	48.490	0.00	0.00
ATOM	3521	CB	ALA	X	233	42.483	45.163	49.552	0.00	0.00
ATOM	3522	HB1	ALA	X	233	42.700	44.285	48.943	0.00	0.00
ATOM	3523	HB2	ALA	X	233	41.553	45.653	49.268	0.00	0.00
ATOM	3524	HB3	ALA	X	233	42.334	44.950	50.611	0.00	0.00
ATOM	3525	C	ALA	X	233	43.299	47.565	50.175	0.00	0.00
ATOM	3526	O	ALA	X	233	42.433	48.277	49.632	0.00	0.00
ATOM	3527	N	THR	X	234	44.070	47.995	51.218	0.00	0.00
ATOM	3528	H	THR	X	234	44.856	47.424	51.493	0.00	0.00
ATOM	3529	CA	THR	X	234	43.964	49.400	51.736	0.00	0.00
ATOM	3530	HA	THR	X	234	43.606	50.013	50.909	0.00	0.00
ATOM	3531	CB	THR	X	234	43.008	49.581	52.876	0.00	0.00
ATOM	3532	HB	THR	X	234	43.415	50.416	53.446	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.561	49.887	52.441	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.553	50.466	51.518	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.956	50.335	53.230	0.00	0.00
ATOM	3536	HG23	THR	X	234	41.056	48.943	52.234	0.00	0.00
ATOM	3537	OG1	THR	X	234	42.982	48.520	53.770	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.596	47.778	53.299	0.00	0.00
ATOM	3539	C	THR	X	234	45.400	49.919	52.112	0.00	0.00
ATOM	3540	O	THR	X	234	46.346	49.192	52.033	0.00	0.00
ATOM	3541	N	VAL	X	235	45.394	51.225	52.207	0.00	0.00
ATOM	3542	H	VAL	X	235	44.650	51.764	51.788	0.00	0.00
ATOM	3543	CA	VAL	X	235	46.544	51.984	52.666	0.00	0.00
ATOM	3544	HA	VAL	X	235	47.136	51.262	53.228	0.00	0.00
ATOM	3545	CB	VAL	X	235	47.453	52.436	51.493	0.00	0.00
ATOM	3546	HB	VAL	X	235	47.787	51.632	50.837	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.751	53.440	50.534	0.00	0.00
ATOM	3548	HG11	VAL	X	235	47.161	53.531	49.529	0.00	0.00
ATOM	3549	HG12	VAL	X	235	45.701	53.219	50.341	0.00	0.00
ATOM	3550	HG13	VAL	X	235	46.810	54.458	50.918	0.00	0.00
ATOM	3551	CG2	VAL	X	235	48.757	52.988	51.967	0.00	0.00
ATOM	3552	HG21	VAL	X	235	48.560	54.011	52.289	0.00	0.00
ATOM	3553	HG22	VAL	X	235	49.471	53.044	51.145	0.00	0.00
ATOM	3554	HG23	VAL	X	235	49.213	52.480	52.817	0.00	0.00
ATOM	3555	C	VAL	X	235	46.103	53.178	53.561	0.00	0.00
ATOM	3556	O	VAL	X	235	44.990	53.773	53.464	0.00	0.00
ATOM	3557	N	GLY	X	236	46.965	53.430	54.579	0.00	0.00
ATOM	3558	H	GLY	X	236	47.785	52.872	54.770	0.00	0.00
ATOM	3559	CA	GLY	X	236	46.800	54.514	55.613	0.00	0.00
ATOM	3560	HA2	GLY	X	236	45.752	54.513	55.911	0.00	0.00
ATOM	3561	HA3	GLY	X	236	47.380	54.257	56.499	0.00	0.00
ATOM	3562	C	GLY	X	236	47.351	55.914	55.178	0.00	0.00
ATOM	3563	O	GLY	X	236	48.122	56.084	54.222	0.00	0.00
ATOM	3564	N	MET	X	237	46.909	56.916	55.931	0.00	0.00
ATOM	3565	H	MET	X	237	46.466	56.702	56.813	0.00	0.00
ATOM	3566	CA	MET	X	237	47.084	58.316	55.559	0.00	0.00
ATOM	3567	HA	MET	X	237	46.579	58.353	54.594	0.00	0.00
ATOM	3568	CB	MET	X	237	46.303	59.191	56.575	0.00	0.00
ATOM	3569	HB2	MET	X	237	46.591	58.980	57.604	0.00	0.00
ATOM	3570	HB3	MET	X	237	46.779	60.165	56.686	0.00	0.00
ATOM	3571	CG	MET	X	237	44.810	59.133	56.438	0.00	0.00
ATOM	3572	HG2	MET	X	237	44.637	59.399	55.395	0.00	0.00
ATOM	3573	HG3	MET	X	237	44.353	58.149	56.545	0.00	0.00
ATOM	3574	SD	MET	X	237	43.932	60.302	57.614	0.00	0.00
ATOM	3575	CE	MET	X	237	42.326	60.463	56.799	0.00	0.00

ATOM	3576	HE1	MET	X	237	42.579	60.813	55.799	0.00	0.00
ATOM	3577	HE2	MET	X	237	42.014	59.422	56.706	0.00	0.00
ATOM	3578	HE3	MET	X	237	41.624	61.105	57.332	0.00	0.00
ATOM	3579	C	MET	X	237	48.581	58.876	55.502	0.00	0.00
ATOM	3580	O	MET	X	237	48.817	59.675	54.596	0.00	0.00
ATOM	3581	N	GLY	X	238	49.523	58.381	56.362	0.00	0.00
ATOM	3582	H	GLY	X	238	49.243	57.741	57.092	0.00	0.00
ATOM	3583	CA	GLY	X	238	50.992	58.769	56.404	0.00	0.00
ATOM	3584	HA2	GLY	X	238	51.183	59.840	56.479	0.00	0.00
ATOM	3585	HA3	GLY	X	238	51.392	58.231	57.263	0.00	0.00
ATOM	3586	C	GLY	X	238	51.577	58.264	55.099	0.00	0.00
ATOM	3587	O	GLY	X	238	52.118	59.052	54.272	0.00	0.00
ATOM	3588	N	GLU	X	239	51.359	57.000	54.754	0.00	0.00
ATOM	3589	H	GLU	X	239	51.010	56.376	55.468	0.00	0.00
ATOM	3590	CA	GLU	X	239	51.842	56.425	53.485	0.00	0.00
ATOM	3591	HA	GLU	X	239	52.916	56.595	53.404	0.00	0.00
ATOM	3592	CB	GLU	X	239	51.705	54.826	53.389	0.00	0.00
ATOM	3593	HB2	GLU	X	239	50.722	54.589	53.798	0.00	0.00
ATOM	3594	HB3	GLU	X	239	51.759	54.464	52.362	0.00	0.00
ATOM	3595	CG	GLU	X	239	52.775	54.021	54.086	0.00	0.00
ATOM	3596	HG2	GLU	X	239	52.866	54.367	55.115	0.00	0.00
ATOM	3597	HG3	GLU	X	239	52.468	52.975	54.067	0.00	0.00
ATOM	3598	CD	GLU	X	239	54.153	54.189	53.464	0.00	0.00
ATOM	3599	OE1	GLU	X	239	54.246	53.744	52.270	0.00	0.00
ATOM	3600	OE2	GLU	X	239	54.948	54.975	54.025	0.00	0.00
ATOM	3601	C	GLU	X	239	51.348	57.079	52.211	0.00	0.00
ATOM	3602	O	GLU	X	239	52.216	57.365	51.401	0.00	0.00
ATOM	3603	N	ALA	X	240	50.027	57.362	52.067	0.00	0.00
ATOM	3604	H	ALA	X	240	49.349	56.902	52.657	0.00	0.00
ATOM	3605	CA	ALA	X	240	49.564	58.180	50.971	0.00	0.00
ATOM	3606	HA	ALA	X	240	49.764	57.693	50.017	0.00	0.00
ATOM	3607	CB	ALA	X	240	48.093	58.390	51.153	0.00	0.00
ATOM	3608	HB1	ALA	X	240	47.807	58.940	52.050	0.00	0.00
ATOM	3609	HB2	ALA	X	240	47.601	57.418	51.153	0.00	0.00
ATOM	3610	HB3	ALA	X	240	47.778	58.842	50.213	0.00	0.00
ATOM	3611	C	ALA	X	240	50.373	59.500	50.758	0.00	0.00
ATOM	3612	O	ALA	X	240	51.018	59.697	49.709	0.00	0.00
ATOM	3613	N	ARG	X	241	50.395	60.279	51.817	0.00	0.00
ATOM	3614	H	ARG	X	241	49.840	59.928	52.585	0.00	0.00
ATOM	3615	CA	ARG	X	241	50.927	61.645	51.829	0.00	0.00
ATOM	3616	HA	ARG	X	241	50.491	62.236	51.024	0.00	0.00
ATOM	3617	CB	ARG	X	241	50.823	62.249	53.199	0.00	0.00
ATOM	3618	HB2	ARG	X	241	49.840	61.938	53.554	0.00	0.00
ATOM	3619	HB3	ARG	X	241	51.611	61.868	53.850	0.00	0.00
ATOM	3620	CG	ARG	X	241	50.683	63.821	53.156	0.00	0.00
ATOM	3621	HG2	ARG	X	241	51.557	64.271	52.685	0.00	0.00
ATOM	3622	HG3	ARG	X	241	49.792	64.054	52.572	0.00	0.00
ATOM	3623	CD	ARG	X	241	50.491	64.524	54.467	0.00	0.00
ATOM	3624	HD2	ARG	X	241	51.396	64.524	55.074	0.00	0.00
ATOM	3625	HD3	ARG	X	241	50.258	65.529	54.114	0.00	0.00
ATOM	3626	NE	ARG	X	241	49.359	64.032	55.338	0.00	0.00
ATOM	3627	HE	ARG	X	241	48.444	64.405	55.127	0.00	0.00
ATOM	3628	CZ	ARG	X	241	49.419	63.154	56.293	0.00	0.00
ATOM	3629	NH1	ARG	X	241	50.521	62.615	56.693	0.00	0.00
ATOM	3630	HH11	ARG	X	241	51.398	62.912	56.288	0.00	0.00
ATOM	3631	HH12	ARG	X	241	50.535	61.947	57.450	0.00	0.00
ATOM	3632	NH2	ARG	X	241	48.343	62.821	56.926	0.00	0.00
ATOM	3633	HH21	ARG	X	241	47.546	63.438	56.866	0.00	0.00
ATOM	3634	HH22	ARG	X	241	48.438	62.180	57.700	0.00	0.00
ATOM	3635	C	ARG	X	241	52.406	61.568	51.442	0.00	0.00
ATOM	3636	O	ARG	X	241	52.918	62.408	50.701	0.00	0.00
ATOM	3637	N	ARG	X	242	53.164	60.691	52.071	0.00	0.00
ATOM	3638	H	ARG	X	242	52.768	60.128	52.810	0.00	0.00
ATOM	3639	CA	ARG	X	242	54.545	60.342	51.708	0.00	0.00
ATOM	3640	HA	ARG	X	242	55.207	61.163	51.984	0.00	0.00
ATOM	3641	CB	ARG	X	242	55.088	59.108	52.557	0.00	0.00
ATOM	3642	HB2	ARG	X	242	54.815	59.424	53.564	0.00	0.00

ATOM	3643	HB3	ARG	X	242	54.588	58.180	52.280	0.00	0.00
ATOM	3644	CG	ARG	X	242	56.620	58.864	52.365	0.00	0.00
ATOM	3645	HG2	ARG	X	242	56.795	58.729	51.297	0.00	0.00
ATOM	3646	HG3	ARG	X	242	57.154	59.763	52.672	0.00	0.00
ATOM	3647	CD	ARG	X	242	57.238	57.740	53.312	0.00	0.00
ATOM	3648	HD2	ARG	X	242	58.293	58.014	53.343	0.00	0.00
ATOM	3649	HD3	ARG	X	242	56.763	57.948	54.271	0.00	0.00
ATOM	3650	NE	ARG	X	242	56.859	56.441	52.659	0.00	0.00
ATOM	3651	HE	ARG	X	242	56.063	55.932	53.017	0.00	0.00
ATOM	3652	CZ	ARG	X	242	57.471	55.741	51.724	0.00	0.00
ATOM	3653	NH1	ARG	X	242	58.631	56.104	51.160	0.00	0.00
ATOM	3654	HH11	ARG	X	242	59.240	56.711	51.689	0.00	0.00
ATOM	3655	HH12	ARG	X	242	59.064	55.575	50.416	0.00	0.00
ATOM	3656	NH2	ARG	X	242	56.878	54.625	51.277	0.00	0.00
ATOM	3657	HH21	ARG	X	242	56.018	54.364	51.737	0.00	0.00
ATOM	3658	HH22	ARG	X	242	57.150	54.271	50.370	0.00	0.00
ATOM	3659	C	ARG	X	242	54.608	60.082	50.221	0.00	0.00
ATOM	3660	O	ARG	X	242	55.236	60.848	49.504	0.00	0.00
ATOM	3661	N	ARG	X	243	54.077	58.932	49.711	0.00	0.00
ATOM	3662	H	ARG	X	243	53.573	58.356	50.371	0.00	0.00
ATOM	3663	CA	ARG	X	243	54.392	58.434	48.348	0.00	0.00
ATOM	3664	HA	ARG	X	243	55.447	58.179	48.246	0.00	0.00
ATOM	3665	CB	ARG	X	243	53.611	57.189	47.944	0.00	0.00
ATOM	3666	HB2	ARG	X	243	52.532	57.300	48.050	0.00	0.00
ATOM	3667	HB3	ARG	X	243	53.727	57.141	46.861	0.00	0.00
ATOM	3668	CG	ARG	X	243	54.111	55.970	48.768	0.00	0.00
ATOM	3669	HG2	ARG	X	243	55.124	55.750	48.431	0.00	0.00
ATOM	3670	HG3	ARG	X	243	54.112	56.296	49.807	0.00	0.00
ATOM	3671	CD	ARG	X	243	53.303	54.686	48.516	0.00	0.00
ATOM	3672	HD2	ARG	X	243	52.235	54.891	48.435	0.00	0.00
ATOM	3673	HD3	ARG	X	243	53.428	54.237	47.530	0.00	0.00
ATOM	3674	NE	ARG	X	243	53.494	53.678	49.577	0.00	0.00
ATOM	3675	HE	ARG	X	243	53.973	53.963	50.419	0.00	0.00
ATOM	3676	CZ	ARG	X	243	52.705	52.599	49.779	0.00	0.00
ATOM	3677	NH1	ARG	X	243	51.920	52.118	48.824	0.00	0.00
ATOM	3678	HH11	ARG	X	243	51.864	52.518	47.898	0.00	0.00
ATOM	3679	HH12	ARG	X	243	51.474	51.217	48.922	0.00	0.00
ATOM	3680	NH2	ARG	X	243	52.738	51.960	50.919	0.00	0.00
ATOM	3681	HH21	ARG	X	243	53.246	52.313	51.717	0.00	0.00
ATOM	3682	HH22	ARG	X	243	52.133	51.164	51.058	0.00	0.00
ATOM	3683	C	ARG	X	243	54.075	59.571	47.278	0.00	0.00
ATOM	3684	O	ARG	X	243	54.855	59.833	46.342	0.00	0.00
ATOM	3685	N	ALA	X	244	52.989	60.403	47.480	0.00	0.00
ATOM	3686	H	ALA	X	244	52.370	60.216	48.256	0.00	0.00
ATOM	3687	CA	ALA	X	244	52.631	61.610	46.715	0.00	0.00
ATOM	3688	HA	ALA	X	244	52.893	61.339	45.692	0.00	0.00
ATOM	3689	CB	ALA	X	244	51.216	62.012	47.159	0.00	0.00
ATOM	3690	HB1	ALA	X	244	50.532	61.166	47.096	0.00	0.00
ATOM	3691	HB2	ALA	X	244	50.855	62.772	46.465	0.00	0.00
ATOM	3692	HB3	ALA	X	244	51.235	62.300	48.210	0.00	0.00
ATOM	3693	C	ALA	X	244	53.530	62.870	46.940	0.00	0.00
ATOM	3694	O	ALA	X	244	53.841	63.625	45.991	0.00	0.00
ATOM	3695	N	THR	X	245	54.079	63.095	48.160	0.00	0.00
ATOM	3696	H	THR	X	245	53.967	62.417	48.901	0.00	0.00
ATOM	3697	CA	THR	X	245	55.066	64.140	48.369	0.00	0.00
ATOM	3698	HA	THR	X	245	54.707	64.960	47.747	0.00	0.00
ATOM	3699	CB	THR	X	245	55.203	64.635	49.785	0.00	0.00
ATOM	3700	HB	THR	X	245	55.676	63.900	50.436	0.00	0.00
ATOM	3701	CG2	THR	X	245	56.134	65.885	49.919	0.00	0.00
ATOM	3702	HG21	THR	X	245	56.183	66.206	50.960	0.00	0.00
ATOM	3703	HG22	THR	X	245	55.927	66.769	49.316	0.00	0.00
ATOM	3704	HG23	THR	X	245	57.123	65.497	49.680	0.00	0.00
ATOM	3705	OG1	THR	X	245	53.916	65.032	50.216	0.00	0.00
ATOM	3706	HG1	THR	X	245	53.469	64.182	50.224	0.00	0.00
ATOM	3707	C	THR	X	245	56.381	63.755	47.674	0.00	0.00
ATOM	3708	O	THR	X	245	57.083	64.636	47.136	0.00	0.00
ATOM	3709	N	GLN	X	246	56.852	62.520	47.845	0.00	0.00

ATOM	3710	H	GLN	X	246	56.350	61.844	48.402	0.00	0.00
ATOM	3711	CA	GLN	X	246	58.096	62.013	47.265	0.00	0.00
ATOM	3712	HA	GLN	X	246	58.905	62.733	47.395	0.00	0.00
ATOM	3713	CB	GLN	X	246	58.539	60.628	47.916	0.00	0.00
ATOM	3714	HB2	GLN	X	246	58.444	60.679	49.001	0.00	0.00
ATOM	3715	HB3	GLN	X	246	57.827	59.885	47.556	0.00	0.00
ATOM	3716	CG	GLN	X	246	60.019	60.337	47.586	0.00	0.00
ATOM	3717	HG2	GLN	X	246	60.250	60.446	46.527	0.00	0.00
ATOM	3718	HG3	GLN	X	246	60.638	61.047	48.134	0.00	0.00
ATOM	3719	CD	GLN	X	246	60.568	58.893	47.991	0.00	0.00
ATOM	3720	OE1	GLN	X	246	59.778	58.010	48.408	0.00	0.00
ATOM	3721	NE2	GLN	X	246	61.823	58.568	47.870	0.00	0.00
ATOM	3722	HE21	GLN	X	246	62.065	57.611	48.083	0.00	0.00
ATOM	3723	HE22	GLN	X	246	62.482	59.182	47.412	0.00	0.00
ATOM	3724	C	GLN	X	246	58.023	61.911	45.741	0.00	0.00
ATOM	3725	O	GLN	X	246	58.909	62.418	45.088	0.00	0.00
ATOM	3726	N	LEU	X	247	57.015	61.411	45.118	0.00	0.00
ATOM	3727	H	LEU	X	247	56.269	61.036	45.687	0.00	0.00
ATOM	3728	CA	LEU	X	247	56.814	61.356	43.602	0.00	0.00
ATOM	3729	HA	LEU	X	247	57.675	60.809	43.218	0.00	0.00
ATOM	3730	CB	LEU	X	247	55.459	60.711	43.331	0.00	0.00
ATOM	3731	HB2	LEU	X	247	55.523	59.798	43.923	0.00	0.00
ATOM	3732	HB3	LEU	X	247	54.652	61.398	43.585	0.00	0.00
ATOM	3733	CG	LEU	X	247	55.194	60.105	41.957	0.00	0.00
ATOM	3734	HG	LEU	X	247	55.974	59.388	41.702	0.00	0.00
ATOM	3735	CD1	LEU	X	247	53.892	59.310	41.998	0.00	0.00
ATOM	3736	HD11	LEU	X	247	53.877	58.804	41.033	0.00	0.00
ATOM	3737	HD12	LEU	X	247	53.080	60.036	41.978	0.00	0.00
ATOM	3738	HD13	LEU	X	247	53.974	58.579	42.803	0.00	0.00
ATOM	3739	CD2	LEU	X	247	55.210	61.102	40.771	0.00	0.00
ATOM	3740	HD21	LEU	X	247	54.569	61.919	41.101	0.00	0.00
ATOM	3741	HD22	LEU	X	247	56.210	61.477	40.549	0.00	0.00
ATOM	3742	HD23	LEU	X	247	54.774	60.624	39.894	0.00	0.00
ATOM	3743	C	LEU	X	247	56.808	62.791	43.100	0.00	0.00
ATOM	3744	O	LEU	X	247	57.387	63.083	42.039	0.00	0.00
ATOM	3745	N	ALA	X	248	56.122	63.698	43.864	0.00	0.00
ATOM	3746	H	ALA	X	248	55.694	63.379	44.722	0.00	0.00
ATOM	3747	CA	ALA	X	248	56.138	65.202	43.561	0.00	0.00
ATOM	3748	HA	ALA	X	248	55.787	65.321	42.536	0.00	0.00
ATOM	3749	CB	ALA	X	248	55.124	65.806	44.537	0.00	0.00
ATOM	3750	HB1	ALA	X	248	55.544	65.720	45.539	0.00	0.00
ATOM	3751	HB2	ALA	X	248	54.149	65.324	44.455	0.00	0.00
ATOM	3752	HB3	ALA	X	248	54.896	66.817	44.198	0.00	0.00
ATOM	3753	C	ALA	X	248	57.532	65.874	43.688	0.00	0.00
ATOM	3754	O	ALA	X	248	57.900	66.540	42.732	0.00	0.00
ATOM	3755	N	HIE	X	249	58.281	65.667	44.734	0.00	0.00
ATOM	3756	H	HIE	X	249	57.896	65.128	45.496	0.00	0.00
ATOM	3757	CA	HIE	X	249	59.654	65.967	44.823	0.00	0.00
ATOM	3758	HA	HIE	X	249	59.740	67.054	44.820	0.00	0.00
ATOM	3759	CB	HIE	X	249	60.141	65.345	46.212	0.00	0.00
ATOM	3760	HB2	HIE	X	249	59.506	65.622	47.053	0.00	0.00
ATOM	3761	HB3	HIE	X	249	60.092	64.262	46.096	0.00	0.00
ATOM	3762	CG	HIE	X	249	61.585	65.859	46.503	0.00	0.00
ATOM	3763	ND1	HIE	X	249	62.785	65.173	46.334	0.00	0.00
ATOM	3764	CE1	HIE	X	249	63.751	65.936	46.831	0.00	0.00
ATOM	3765	HE1	HIE	X	249	64.795	65.666	46.877	0.00	0.00
ATOM	3766	NE2	HIE	X	249	63.238	67.108	47.350	0.00	0.00
ATOM	3767	HE2	HIE	X	249	63.599	67.695	48.089	0.00	0.00
ATOM	3768	CD2	HIE	X	249	61.870	67.043	47.066	0.00	0.00
ATOM	3769	HD2	HIE	X	249	61.143	67.804	47.311	0.00	0.00
ATOM	3770	C	HIE	X	249	60.558	65.408	43.715	0.00	0.00
ATOM	3771	O	HIE	X	249	61.311	66.218	43.182	0.00	0.00
ATOM	3772	N	LEU	X	250	60.410	64.137	43.331	0.00	0.00
ATOM	3773	H	LEU	X	250	59.827	63.501	43.856	0.00	0.00
ATOM	3774	CA	LEU	X	250	61.068	63.587	42.086	0.00	0.00
ATOM	3775	HA	LEU	X	250	62.137	63.781	42.168	0.00	0.00
ATOM	3776	CB	LEU	X	250	60.895	62.064	42.104	0.00	0.00

ATOM	3777	HB2	LEU	X	250	59.838	61.869	42.287	0.00	0.00
ATOM	3778	HB3	LEU	X	250	61.016	61.555	41.148	0.00	0.00
ATOM	3779	CG	LEU	X	250	61.600	61.233	43.121	0.00	0.00
ATOM	3780	HG	LEU	X	250	61.362	61.683	44.085	0.00	0.00
ATOM	3781	CD1	LEU	X	250	61.132	59.777	43.174	0.00	0.00
ATOM	3782	HD11	LEU	X	250	61.503	59.222	42.312	0.00	0.00
ATOM	3783	HD12	LEU	X	250	60.052	59.644	43.116	0.00	0.00
ATOM	3784	HD13	LEU	X	250	61.507	59.309	44.084	0.00	0.00
ATOM	3785	CD2	LEU	X	250	63.130	61.312	42.939	0.00	0.00
ATOM	3786	HD21	LEU	X	250	63.464	60.780	42.048	0.00	0.00
ATOM	3787	HD22	LEU	X	250	63.441	62.335	42.726	0.00	0.00
ATOM	3788	HD23	LEU	X	250	63.585	61.097	43.906	0.00	0.00
ATOM	3789	C	LEU	X	250	60.630	64.139	40.742	0.00	0.00
ATOM	3790	O	LEU	X	250	61.556	64.602	40.131	0.00	0.00
ATOM	3791	N	VAL	X	251	59.395	64.178	40.256	0.00	0.00
ATOM	3792	H	VAL	X	251	58.685	63.898	40.918	0.00	0.00
ATOM	3793	CA	VAL	X	251	58.984	64.674	38.884	0.00	0.00
ATOM	3794	HA	VAL	X	251	59.718	64.391	38.130	0.00	0.00
ATOM	3795	CB	VAL	X	251	57.682	63.938	38.398	0.00	0.00
ATOM	3796	HB	VAL	X	251	57.688	62.930	38.813	0.00	0.00
ATOM	3797	CG1	VAL	X	251	56.478	64.675	38.963	0.00	0.00
ATOM	3798	HG11	VAL	X	251	56.576	64.942	40.016	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.495	65.615	38.411	0.00	0.00
ATOM	3800	HG13	VAL	X	251	55.551	64.134	38.772	0.00	0.00
ATOM	3801	CG2	VAL	X	251	57.671	63.768	36.866	0.00	0.00
ATOM	3802	HG21	VAL	X	251	58.695	63.611	36.528	0.00	0.00
ATOM	3803	HG22	VAL	X	251	57.439	64.721	36.390	0.00	0.00
ATOM	3804	HG23	VAL	X	251	56.999	62.958	36.581	0.00	0.00
ATOM	3805	C	VAL	X	251	59.091	66.201	38.756	0.00	0.00
ATOM	3806	O	VAL	X	251	58.831	66.677	37.667	0.00	0.00
ATOM	3807	N	GLY	X	252	59.520	66.981	39.749	0.00	0.00
ATOM	3808	H	GLY	X	252	59.553	66.589	40.679	0.00	0.00
ATOM	3809	CA	GLY	X	252	59.843	68.399	39.683	0.00	0.00
ATOM	3810	HA2	GLY	X	252	60.561	68.600	40.479	0.00	0.00
ATOM	3811	HA3	GLY	X	252	60.336	68.694	38.757	0.00	0.00
ATOM	3812	C	GLY	X	252	58.597	69.230	39.870	0.00	0.00
ATOM	3813	O	GLY	X	252	58.317	70.216	39.197	0.00	0.00
ATOM	3814	N	CYX	X	253	57.774	68.885	40.884	0.00	0.00
ATOM	3815	H	CYX	X	253	57.942	67.937	41.189	0.00	0.00
ATOM	3816	CA	CYX	X	253	56.577	69.533	41.411	0.00	0.00
ATOM	3817	HA	CYX	X	253	56.461	70.512	40.946	0.00	0.00
ATOM	3818	CB	CYX	X	253	55.333	68.717	41.004	0.00	0.00
ATOM	3819	HB2	CYX	X	253	55.561	67.707	41.345	0.00	0.00
ATOM	3820	HB3	CYX	X	253	54.398	69.004	41.486	0.00	0.00
ATOM	3821	SG	CYX	X	253	54.969	68.391	39.290	0.00	0.00
ATOM	3822	C	CYX	X	253	56.532	69.895	42.892	0.00	0.00
ATOM	3823	O	CYX	X	253	55.957	69.215	43.753	0.00	0.00
ATOM	3824	N	PRO	X	254	57.339	70.899	43.238	0.00	0.00
ATOM	3825	CD	PRO	X	254	57.298	71.641	44.540	0.00	0.00
ATOM	3826	HD2	PRO	X	254	57.351	70.890	45.328	0.00	0.00
ATOM	3827	HD3	PRO	X	254	56.364	72.148	44.782	0.00	0.00
ATOM	3828	CG	PRO	X	254	58.376	72.692	44.517	0.00	0.00
ATOM	3829	HG2	PRO	X	254	59.320	72.257	44.843	0.00	0.00
ATOM	3830	HG3	PRO	X	254	57.911	73.573	44.960	0.00	0.00
ATOM	3831	CB	PRO	X	254	58.466	72.971	43.063	0.00	0.00
ATOM	3832	HB2	PRO	X	254	59.429	73.426	42.829	0.00	0.00
ATOM	3833	HB3	PRO	X	254	57.636	73.596	42.735	0.00	0.00
ATOM	3834	CA	PRO	X	254	58.330	71.580	42.428	0.00	0.00
ATOM	3835	HA	PRO	X	254	57.998	71.716	41.399	0.00	0.00
ATOM	3836	C	PRO	X	254	59.656	70.765	42.508	0.00	0.00
ATOM	3837	O	PRO	X	254	59.813	69.847	43.350	0.00	0.00
ATOM	3838	N	PRO	X	255	60.624	70.988	41.621	0.00	0.00
ATOM	3839	CD	PRO	X	255	60.588	71.991	40.618	0.00	0.00
ATOM	3840	HD2	PRO	X	255	60.850	72.944	41.080	0.00	0.00
ATOM	3841	HD3	PRO	X	255	59.619	72.125	40.138	0.00	0.00
ATOM	3842	CG	PRO	X	255	61.789	71.624	39.758	0.00	0.00
ATOM	3843	HG2	PRO	X	255	62.193	72.498	39.248	0.00	0.00

ATOM	3844	HG3	PRO	X	255	61.588	70.891	38.977	0.00	0.00
ATOM	3845	CB	PRO	X	255	62.835	71.130	40.723	0.00	0.00
ATOM	3846	HB2	PRO	X	255	63.493	71.921	41.084	0.00	0.00
ATOM	3847	HB3	PRO	X	255	63.391	70.320	40.250	0.00	0.00
ATOM	3848	CA	PRO	X	255	62.037	70.689	41.943	0.00	0.00
ATOM	3849	HA	PRO	X	255	62.128	69.610	42.073	0.00	0.00
ATOM	3850	C	PRO	X	255	62.438	71.386	43.272	0.00	0.00
ATOM	3851	O	PRO	X	255	62.321	72.622	43.309	0.00	0.00
ATOM	3852	N	GLY	X	256	62.915	70.693	44.285	0.00	0.00
ATOM	3853	H	GLY	X	256	62.868	69.687	44.213	0.00	0.00
ATOM	3854	CA	GLY	X	256	63.345	71.212	45.606	0.00	0.00
ATOM	3855	HA2	GLY	X	256	64.036	70.486	46.035	0.00	0.00
ATOM	3856	HA3	GLY	X	256	63.740	72.219	45.468	0.00	0.00
ATOM	3857	C	GLY	X	256	62.176	71.342	46.519	0.00	0.00
ATOM	3858	O	GLY	X	256	62.149	72.233	47.370	0.00	0.00
ATOM	3859	N	GLY	X	257	61.113	70.564	46.341	0.00	0.00
ATOM	3860	H	GLY	X	257	61.139	69.927	45.558	0.00	0.00
ATOM	3861	CA	GLY	X	257	59.802	70.552	47.085	0.00	0.00
ATOM	3862	HA2	GLY	X	257	59.299	71.519	47.050	0.00	0.00
ATOM	3863	HA3	GLY	X	257	59.246	69.728	46.638	0.00	0.00
ATOM	3864	C	GLY	X	257	59.966	70.126	48.551	0.00	0.00
ATOM	3865	O	GLY	X	257	60.903	69.410	48.882	0.00	0.00
ATOM	3866	N	THR	X	258	58.980	70.501	49.438	0.00	0.00
ATOM	3867	H	THR	X	258	58.228	71.124	49.182	0.00	0.00
ATOM	3868	CA	THR	X	258	59.164	70.542	50.871	0.00	0.00
ATOM	3869	HA	THR	X	258	59.915	69.799	51.138	0.00	0.00
ATOM	3870	CB	THR	X	258	59.541	71.981	51.286	0.00	0.00
ATOM	3871	HB	THR	X	258	59.311	72.002	52.352	0.00	0.00
ATOM	3872	CG2	THR	X	258	61.080	72.300	51.008	0.00	0.00
ATOM	3873	HG21	THR	X	258	61.646	71.826	51.810	0.00	0.00
ATOM	3874	HG22	THR	X	258	61.099	73.367	51.229	0.00	0.00
ATOM	3875	HG23	THR	X	258	61.407	71.966	50.023	0.00	0.00
ATOM	3876	OG1	THR	X	258	58.620	72.821	50.608	0.00	0.00
ATOM	3877	HG1	THR	X	258	58.837	73.705	50.916	0.00	0.00
ATOM	3878	C	THR	X	258	57.910	70.217	51.565	0.00	0.00
ATOM	3879	O	THR	X	258	58.041	69.683	52.681	0.00	0.00
ATOM	3880	N	GLY	X	259	56.724	70.238	50.902	0.00	0.00
ATOM	3881	H	GLY	X	259	56.720	70.302	49.894	0.00	0.00
ATOM	3882	CA	GLY	X	259	55.441	70.130	51.552	0.00	0.00
ATOM	3883	HA2	GLY	X	259	54.638	69.580	51.062	0.00	0.00
ATOM	3884	HA3	GLY	X	259	55.615	69.458	52.393	0.00	0.00
ATOM	3885	C	GLY	X	259	54.725	71.371	52.169	0.00	0.00
ATOM	3886	O	GLY	X	259	54.060	71.247	53.219	0.00	0.00
ATOM	3887	N	GLY	X	260	54.974	72.562	51.630	0.00	0.00
ATOM	3888	H	GLY	X	260	55.617	72.554	50.850	0.00	0.00
ATOM	3889	CA	GLY	X	260	54.536	73.923	52.110	0.00	0.00
ATOM	3890	HA2	GLY	X	260	54.240	73.955	53.159	0.00	0.00
ATOM	3891	HA3	GLY	X	260	55.311	74.643	51.845	0.00	0.00
ATOM	3892	C	GLY	X	260	53.367	74.532	51.354	0.00	0.00
ATOM	3893	O	GLY	X	260	53.054	75.676	51.692	0.00	0.00
ATOM	3894	N	ASN	X	261	52.820	73.780	50.357	0.00	0.00
ATOM	3895	H	ASN	X	261	53.221	72.887	50.110	0.00	0.00
ATOM	3896	CA	ASN	X	261	51.574	74.004	49.709	0.00	0.00
ATOM	3897	HA	ASN	X	261	50.851	74.090	50.519	0.00	0.00
ATOM	3898	CB	ASN	X	261	51.680	75.324	48.921	0.00	0.00
ATOM	3899	HB2	ASN	X	261	52.007	76.168	49.529	0.00	0.00
ATOM	3900	HB3	ASN	X	261	52.493	75.193	48.206	0.00	0.00
ATOM	3901	CG	ASN	X	261	50.385	75.631	48.205	0.00	0.00
ATOM	3902	OD1	ASN	X	261	50.106	75.292	47.054	0.00	0.00
ATOM	3903	ND2	ASN	X	261	49.496	76.405	48.804	0.00	0.00
ATOM	3904	HD21	ASN	X	261	48.733	76.750	48.240	0.00	0.00
ATOM	3905	HD22	ASN	X	261	49.693	76.783	49.720	0.00	0.00
ATOM	3906	C	ASN	X	261	51.022	72.903	48.799	0.00	0.00
ATOM	3907	O	ASN	X	261	51.647	72.511	47.850	0.00	0.00
ATOM	3908	N	ASP	X	262	49.748	72.444	48.960	0.00	0.00
ATOM	3909	H	ASP	X	262	49.251	72.739	49.788	0.00	0.00
ATOM	3910	CA	ASP	X	262	49.202	71.335	48.174	0.00	0.00

ATOM	3911	HA	ASP	X	262	49.922	70.520	48.102	0.00	0.00
ATOM	3912	CB	ASP	X	262	48.062	70.679	48.829	0.00	0.00
ATOM	3913	HB2	ASP	X	262	47.246	71.402	48.840	0.00	0.00
ATOM	3914	HB3	ASP	X	262	47.640	69.865	48.240	0.00	0.00
ATOM	3915	CG	ASP	X	262	48.324	70.222	50.285	0.00	0.00
ATOM	3916	OD1	ASP	X	262	47.430	70.309	51.128	0.00	0.00
ATOM	3917	OD2	ASP	X	262	49.491	69.824	50.597	0.00	0.00
ATOM	3918	C	ASP	X	262	48.698	71.797	46.830	0.00	0.00
ATOM	3919	O	ASP	X	262	48.633	70.954	45.890	0.00	0.00
ATOM	3920	N	THR	X	263	48.203	73.035	46.687	0.00	0.00
ATOM	3921	H	THR	X	263	48.326	73.702	47.435	0.00	0.00
ATOM	3922	CA	THR	X	263	47.655	73.585	45.376	0.00	0.00
ATOM	3923	HA	THR	X	263	46.857	72.966	44.966	0.00	0.00
ATOM	3924	CB	THR	X	263	47.033	75.012	45.526	0.00	0.00
ATOM	3925	HB	THR	X	263	47.821	75.634	45.953	0.00	0.00
ATOM	3926	CG2	THR	X	263	46.473	75.653	44.308	0.00	0.00
ATOM	3927	HG21	THR	X	263	45.994	76.583	44.615	0.00	0.00
ATOM	3928	HG22	THR	X	263	45.827	74.901	43.855	0.00	0.00
ATOM	3929	HG23	THR	X	263	47.212	76.021	43.597	0.00	0.00
ATOM	3930	OG1	THR	X	263	45.867	74.915	46.380	0.00	0.00
ATOM	3931	HG1	THR	X	263	45.517	75.772	46.632	0.00	0.00
ATOM	3932	C	THR	X	263	48.746	73.537	44.319	0.00	0.00
ATOM	3933	O	THR	X	263	48.676	72.817	43.370	0.00	0.00
ATOM	3934	N	GLU	X	264	49.813	74.404	44.484	0.00	0.00
ATOM	3935	H	GLU	X	264	49.862	74.960	45.326	0.00	0.00
ATOM	3936	CA	GLU	X	264	51.047	74.582	43.696	0.00	0.00
ATOM	3937	HA	GLU	X	264	50.726	74.952	42.722	0.00	0.00
ATOM	3938	CB	GLU	X	264	52.046	75.494	44.390	0.00	0.00
ATOM	3939	HB2	GLU	X	264	51.981	75.319	45.464	0.00	0.00
ATOM	3940	HB3	GLU	X	264	53.077	75.350	44.067	0.00	0.00
ATOM	3941	CG	GLU	X	264	51.645	77.019	44.331	0.00	0.00
ATOM	3942	HG2	GLU	X	264	50.661	77.179	44.773	0.00	0.00
ATOM	3943	HG3	GLU	X	264	52.346	77.635	44.894	0.00	0.00
ATOM	3944	CD	GLU	X	264	51.716	77.598	42.920	0.00	0.00
ATOM	3945	OE1	GLU	X	264	52.620	77.431	42.163	0.00	0.00
ATOM	3946	OE2	GLU	X	264	50.802	78.291	42.473	0.00	0.00
ATOM	3947	C	GLU	X	264	51.723	73.237	43.499	0.00	0.00
ATOM	3948	O	GLU	X	264	52.096	73.047	42.329	0.00	0.00
ATOM	3949	N	LEU	X	265	51.941	72.335	44.547	0.00	0.00
ATOM	3950	H	LEU	X	265	51.695	72.606	45.488	0.00	0.00
ATOM	3951	CA	LEU	X	265	52.309	70.928	44.244	0.00	0.00
ATOM	3952	HA	LEU	X	265	53.255	70.953	43.703	0.00	0.00
ATOM	3953	CB	LEU	X	265	52.399	70.196	45.589	0.00	0.00
ATOM	3954	HB2	LEU	X	265	53.039	70.767	46.261	0.00	0.00
ATOM	3955	HB3	LEU	X	265	51.447	70.199	46.119	0.00	0.00
ATOM	3956	CG	LEU	X	265	52.930	68.669	45.726	0.00	0.00
ATOM	3957	HG	LEU	X	265	53.974	68.572	45.426	0.00	0.00
ATOM	3958	CD1	LEU	X	265	52.997	68.122	47.145	0.00	0.00
ATOM	3959	HD11	LEU	X	265	53.137	67.042	47.127	0.00	0.00
ATOM	3960	HD12	LEU	X	265	52.082	68.375	47.681	0.00	0.00
ATOM	3961	HD13	LEU	X	265	53.832	68.637	47.621	0.00	0.00
ATOM	3962	CD2	LEU	X	265	52.178	67.621	44.868	0.00	0.00
ATOM	3963	HD21	LEU	X	265	51.120	67.869	44.951	0.00	0.00
ATOM	3964	HD22	LEU	X	265	52.539	67.612	43.839	0.00	0.00
ATOM	3965	HD23	LEU	X	265	52.282	66.591	45.207	0.00	0.00
ATOM	3966	C	LEU	X	265	51.322	70.376	43.175	0.00	0.00
ATOM	3967	O	LEU	X	265	51.783	69.953	42.101	0.00	0.00
ATOM	3968	N	VAL	X	266	50.040	70.210	43.515	0.00	0.00
ATOM	3969	H	VAL	X	266	49.603	70.476	44.386	0.00	0.00
ATOM	3970	CA	VAL	X	266	49.222	69.265	42.762	0.00	0.00
ATOM	3971	HA	VAL	X	266	49.755	68.333	42.577	0.00	0.00
ATOM	3972	CB	VAL	X	266	47.955	68.866	43.594	0.00	0.00
ATOM	3973	HB	VAL	X	266	47.438	69.762	43.936	0.00	0.00
ATOM	3974	CG1	VAL	X	266	46.900	68.153	42.610	0.00	0.00
ATOM	3975	HG11	VAL	X	266	47.453	67.367	42.096	0.00	0.00
ATOM	3976	HG12	VAL	X	266	46.176	67.578	43.187	0.00	0.00
ATOM	3977	HG13	VAL	X	266	46.383	68.775	41.879	0.00	0.00

ATOM	3978	CG2	VAL	X	266	48.210	67.955	44.739	0.00	0.00
ATOM	3979	HG21	VAL	X	266	47.276	67.550	45.130	0.00	0.00
ATOM	3980	HG22	VAL	X	266	48.941	68.382	45.426	0.00	0.00
ATOM	3981	HG23	VAL	X	266	48.730	67.069	44.375	0.00	0.00
ATOM	3982	C	VAL	X	266	48.880	69.784	41.418	0.00	0.00
ATOM	3983	O	VAL	X	266	48.758	68.961	40.565	0.00	0.00
ATOM	3984	N	ALA	X	267	48.935	71.070	41.162	0.00	0.00
ATOM	3985	H	ALA	X	267	48.996	71.722	41.931	0.00	0.00
ATOM	3986	CA	ALA	X	267	48.687	71.722	39.840	0.00	0.00
ATOM	3987	HA	ALA	X	267	47.722	71.479	39.395	0.00	0.00
ATOM	3988	CB	ALA	X	267	48.694	73.205	40.095	0.00	0.00
ATOM	3989	HB1	ALA	X	267	47.875	73.498	40.752	0.00	0.00
ATOM	3990	HB2	ALA	X	267	48.703	73.646	39.098	0.00	0.00
ATOM	3991	HB3	ALA	X	267	49.620	73.579	40.533	0.00	0.00
ATOM	3992	C	ALA	X	267	49.653	71.260	38.765	0.00	0.00
ATOM	3993	O	ALA	X	267	49.401	70.837	37.571	0.00	0.00
ATOM	3994	N	CYX	X	268	50.925	71.295	39.155	0.00	0.00
ATOM	3995	H	CYX	X	268	51.017	71.645	40.098	0.00	0.00
ATOM	3996	CA	CYX	X	268	52.012	70.761	38.434	0.00	0.00
ATOM	3997	HA	CYX	X	268	51.959	71.218	37.446	0.00	0.00
ATOM	3998	CB	CYX	X	268	53.276	71.160	39.220	0.00	0.00
ATOM	3999	HB2	CYX	X	268	53.383	72.242	39.156	0.00	0.00
ATOM	4000	HB3	CYX	X	268	53.116	70.821	40.244	0.00	0.00
ATOM	4001	SG	CYX	X	268	54.905	70.355	38.720	0.00	0.00
ATOM	4002	C	CYX	X	268	51.876	69.263	38.211	0.00	0.00
ATOM	4003	O	CYX	X	268	52.098	68.724	37.133	0.00	0.00
ATOM	4004	N	LEU	X	269	51.479	68.530	39.179	0.00	0.00
ATOM	4005	H	LEU	X	269	51.322	68.989	40.065	0.00	0.00
ATOM	4006	CA	LEU	X	269	51.338	67.067	39.146	0.00	0.00
ATOM	4007	HA	LEU	X	269	52.281	66.767	38.689	0.00	0.00
ATOM	4008	CB	LEU	X	269	51.198	66.580	40.611	0.00	0.00
ATOM	4009	HB2	LEU	X	269	52.008	67.046	41.172	0.00	0.00
ATOM	4010	HB3	LEU	X	269	50.230	66.861	41.027	0.00	0.00
ATOM	4011	CG	LEU	X	269	51.403	65.031	40.555	0.00	0.00
ATOM	4012	HG	LEU	X	269	50.794	64.649	39.736	0.00	0.00
ATOM	4013	CD1	LEU	X	269	52.830	64.709	40.210	0.00	0.00
ATOM	4014	HD11	LEU	X	269	53.073	63.647	40.259	0.00	0.00
ATOM	4015	HD12	LEU	X	269	53.459	65.298	40.877	0.00	0.00
ATOM	4016	HD13	LEU	X	269	53.002	65.017	39.179	0.00	0.00
ATOM	4017	CD2	LEU	X	269	51.032	64.245	41.868	0.00	0.00
ATOM	4018	HD21	LEU	X	269	51.080	63.173	41.677	0.00	0.00
ATOM	4019	HD22	LEU	X	269	51.668	64.522	42.709	0.00	0.00
ATOM	4020	HD23	LEU	X	269	50.027	64.512	42.192	0.00	0.00
ATOM	4021	C	LEU	X	269	50.212	66.673	38.173	0.00	0.00
ATOM	4022	O	LEU	X	269	50.341	65.665	37.474	0.00	0.00
ATOM	4023	N	ARG	X	270	49.147	67.542	37.974	0.00	0.00
ATOM	4024	H	ARG	X	270	49.143	68.405	38.499	0.00	0.00
ATOM	4025	CA	ARG	X	270	48.112	67.372	36.959	0.00	0.00
ATOM	4026	HA	ARG	X	270	47.813	66.327	36.876	0.00	0.00
ATOM	4027	CB	ARG	X	270	46.866	68.227	37.277	0.00	0.00
ATOM	4028	HB2	ARG	X	270	47.192	69.225	37.571	0.00	0.00
ATOM	4029	HB3	ARG	X	270	46.162	68.282	36.447	0.00	0.00
ATOM	4030	CG	ARG	X	270	46.176	67.694	38.458	0.00	0.00
ATOM	4031	HG2	ARG	X	270	46.267	66.621	38.628	0.00	0.00
ATOM	4032	HG3	ARG	X	270	46.606	68.086	39.380	0.00	0.00
ATOM	4033	CD	ARG	X	270	44.762	68.193	38.424	0.00	0.00
ATOM	4034	HD2	ARG	X	270	44.701	69.007	37.702	0.00	0.00
ATOM	4035	HD3	ARG	X	270	44.104	67.364	38.162	0.00	0.00
ATOM	4036	NE	ARG	X	270	44.358	68.870	39.665	0.00	0.00
ATOM	4037	HE	ARG	X	270	44.328	69.879	39.625	0.00	0.00
ATOM	4038	CZ	ARG	X	270	43.954	68.273	40.751	0.00	0.00
ATOM	4039	NH1	ARG	X	270	43.800	67.005	40.835	0.00	0.00
ATOM	4040	HH11	ARG	X	270	43.826	66.334	40.080	0.00	0.00
ATOM	4041	HH12	ARG	X	270	43.581	66.619	41.743	0.00	0.00
ATOM	4042	NH2	ARG	X	270	43.745	68.969	41.846	0.00	0.00
ATOM	4043	HH21	ARG	X	270	44.095	69.917	41.827	0.00	0.00
ATOM	4044	HH22	ARG	X	270	43.352	68.464	42.626	0.00	0.00

ATOM	4045	C	ARG	X	270	48.647	67.676	35.517	0.00	0.00
ATOM	4046	O	ARG	X	270	47.964	67.291	34.624	0.00	0.00
ATOM	4047	N	THR	X	271	49.753	68.430	35.366	0.00	0.00
ATOM	4048	H	THR	X	271	50.351	68.662	36.145	0.00	0.00
ATOM	4049	CA	THR	X	271	50.274	68.899	34.109	0.00	0.00
ATOM	4050	HA	THR	X	271	49.492	68.628	33.400	0.00	0.00
ATOM	4051	CB	THR	X	271	50.382	70.364	34.234	0.00	0.00
ATOM	4052	HB	THR	X	271	50.968	70.568	35.130	0.00	0.00
ATOM	4053	CG2	THR	X	271	51.035	71.258	33.150	0.00	0.00
ATOM	4054	HG21	THR	X	271	50.646	70.987	32.168	0.00	0.00
ATOM	4055	HG22	THR	X	271	52.108	71.069	33.154	0.00	0.00
ATOM	4056	HG23	THR	X	271	50.854	72.310	33.371	0.00	0.00
ATOM	4057	OG1	THR	X	271	49.078	70.879	34.452	0.00	0.00
ATOM	4058	HG1	THR	X	271	49.377	71.531	35.090	0.00	0.00
ATOM	4059	C	THR	X	271	51.464	68.170	33.450	0.00	0.00
ATOM	4060	O	THR	X	271	51.479	67.970	32.267	0.00	0.00
ATOM	4061	N	ARG	X	272	52.433	67.667	34.257	0.00	0.00
ATOM	4062	H	ARG	X	272	52.339	67.838	35.248	0.00	0.00
ATOM	4063	CA	ARG	X	272	53.243	66.502	33.939	0.00	0.00
ATOM	4064	HA	ARG	X	272	54.127	66.718	33.339	0.00	0.00
ATOM	4065	CB	ARG	X	272	53.738	65.865	35.317	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.103	66.080	36.177	0.00	0.00
ATOM	4067	HB3	ARG	X	272	53.660	64.779	35.267	0.00	0.00
ATOM	4068	CG	ARG	X	272	55.199	66.253	35.649	0.00	0.00
ATOM	4069	HG2	ARG	X	272	55.358	65.813	36.633	0.00	0.00
ATOM	4070	HG3	ARG	X	272	55.791	65.692	34.926	0.00	0.00
ATOM	4071	CD	ARG	X	272	55.556	67.740	35.630	0.00	0.00
ATOM	4072	HD2	ARG	X	272	55.218	68.100	34.658	0.00	0.00
ATOM	4073	HD3	ARG	X	272	55.038	68.195	36.474	0.00	0.00
ATOM	4074	NE	ARG	X	272	56.935	68.068	35.713	0.00	0.00
ATOM	4075	HE	ARG	X	272	57.539	67.308	35.989	0.00	0.00
ATOM	4076	CZ	ARG	X	272	57.446	69.261	35.970	0.00	0.00
ATOM	4077	NH1	ARG	X	272	56.780	70.366	35.728	0.00	0.00
ATOM	4078	HH11	ARG	X	272	55.798	70.484	35.526	0.00	0.00
ATOM	4079	HH12	ARG	X	272	57.319	71.220	35.746	0.00	0.00
ATOM	4080	NH2	ARG	X	272	58.698	69.298	36.305	0.00	0.00
ATOM	4081	HH21	ARG	X	272	59.237	68.444	36.336	0.00	0.00
ATOM	4082	HH22	ARG	X	272	59.166	70.178	36.469	0.00	0.00
ATOM	4083	C	ARG	X	272	52.421	65.429	33.171	0.00	0.00
ATOM	4084	O	ARG	X	272	51.427	64.929	33.754	0.00	0.00
ATOM	4085	N	PRO	X	273	52.862	65.090	31.951	0.00	0.00
ATOM	4086	CD	PRO	X	273	53.969	65.566	31.178	0.00	0.00
ATOM	4087	HD2	PRO	X	273	54.904	65.500	31.734	0.00	0.00
ATOM	4088	HD3	PRO	X	273	53.915	66.556	30.725	0.00	0.00
ATOM	4089	CG	PRO	X	273	54.076	64.672	29.908	0.00	0.00
ATOM	4090	HG2	PRO	X	273	54.733	63.861	30.224	0.00	0.00
ATOM	4091	HG3	PRO	X	273	54.491	65.131	29.010	0.00	0.00
ATOM	4092	CB	PRO	X	273	52.624	64.107	29.803	0.00	0.00
ATOM	4093	HB2	PRO	X	273	52.574	63.089	29.419	0.00	0.00
ATOM	4094	HB3	PRO	X	273	52.054	64.802	29.186	0.00	0.00
ATOM	4095	CA	PRO	X	273	52.133	64.053	31.255	0.00	0.00
ATOM	4096	HA	PRO	X	273	51.126	64.448	31.119	0.00	0.00
ATOM	4097	C	PRO	X	273	52.080	62.667	31.948	0.00	0.00
ATOM	4098	O	PRO	X	273	52.847	62.443	32.882	0.00	0.00
ATOM	4099	N	ALA	X	274	51.252	61.748	31.430	0.00	0.00
ATOM	4100	H	ALA	X	274	50.793	62.073	30.592	0.00	0.00
ATOM	4101	CA	ALA	X	274	50.768	60.550	32.045	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.603	60.823	33.088	0.00	0.00
ATOM	4103	CB	ALA	X	274	49.537	60.114	31.323	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.822	59.857	30.302	0.00	0.00
ATOM	4105	HB2	ALA	X	274	48.774	60.891	31.342	0.00	0.00
ATOM	4106	HB3	ALA	X	274	49.171	59.221	31.829	0.00	0.00
ATOM	4107	C	ALA	X	274	51.905	59.465	32.187	0.00	0.00
ATOM	4108	O	ALA	X	274	52.171	59.093	33.323	0.00	0.00
ATOM	4109	N	GLN	X	275	52.637	59.095	31.121	0.00	0.00
ATOM	4110	H	GLN	X	275	52.357	59.448	30.217	0.00	0.00
ATOM	4111	CA	GLN	X	275	53.691	58.102	31.153	0.00	0.00

ATOM	4112	HA	GLN	X	275	53.265	57.159	31.496	0.00	0.00
ATOM	4113	CB	GLN	X	275	54.235	57.743	29.699	0.00	0.00
ATOM	4114	HB2	GLN	X	275	53.335	57.704	29.086	0.00	0.00
ATOM	4115	HB3	GLN	X	275	55.005	58.432	29.353	0.00	0.00
ATOM	4116	CG	GLN	X	275	54.775	56.325	29.754	0.00	0.00
ATOM	4117	HG2	GLN	X	275	55.452	56.191	30.598	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.881	55.738	29.966	0.00	0.00
ATOM	4119	CD	GLN	X	275	55.538	56.045	28.402	0.00	0.00
ATOM	4120	OE1	GLN	X	275	55.740	56.790	27.499	0.00	0.00
ATOM	4121	NE2	GLN	X	275	56.097	54.900	28.388	0.00	0.00
ATOM	4122	HE21	GLN	X	275	56.439	54.597	27.487	0.00	0.00
ATOM	4123	HE22	GLN	X	275	55.847	54.303	29.164	0.00	0.00
ATOM	4124	C	GLN	X	275	54.764	58.410	32.172	0.00	0.00
ATOM	4125	O	GLN	X	275	55.104	57.524	33.000	0.00	0.00
ATOM	4126	N	VAL	X	276	55.254	59.596	32.404	0.00	0.00
ATOM	4127	H	VAL	X	276	54.996	60.242	31.672	0.00	0.00
ATOM	4128	CA	VAL	X	276	56.199	60.026	33.446	0.00	0.00
ATOM	4129	HA	VAL	X	276	56.860	59.160	33.434	0.00	0.00
ATOM	4130	CB	VAL	X	276	57.164	61.168	33.056	0.00	0.00
ATOM	4131	HB	VAL	X	276	57.441	61.053	32.008	0.00	0.00
ATOM	4132	CG1	VAL	X	276	56.443	62.557	33.090	0.00	0.00
ATOM	4133	HG11	VAL	X	276	56.029	62.734	34.083	0.00	0.00
ATOM	4134	HG12	VAL	X	276	57.218	63.318	32.994	0.00	0.00
ATOM	4135	HG13	VAL	X	276	55.589	62.637	32.418	0.00	0.00
ATOM	4136	CG2	VAL	X	276	58.520	61.078	33.793	0.00	0.00
ATOM	4137	HG21	VAL	X	276	58.368	61.356	34.836	0.00	0.00
ATOM	4138	HG22	VAL	X	276	59.240	61.694	33.255	0.00	0.00
ATOM	4139	HG23	VAL	X	276	58.927	60.067	33.765	0.00	0.00
ATOM	4140	C	VAL	X	276	55.620	60.261	34.870	0.00	0.00
ATOM	4141	O	VAL	X	276	56.422	60.207	35.773	0.00	0.00
ATOM	4142	N	LEU	X	277	54.319	60.504	35.042	0.00	0.00
ATOM	4143	H	LEU	X	277	53.704	60.478	34.241	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.741	60.391	36.368	0.00	0.00
ATOM	4145	HA	LEU	X	277	54.302	61.048	37.032	0.00	0.00
ATOM	4146	CB	LEU	X	277	52.322	60.974	36.192	0.00	0.00
ATOM	4147	HB2	LEU	X	277	52.439	62.057	36.160	0.00	0.00
ATOM	4148	HB3	LEU	X	277	51.980	60.591	35.230	0.00	0.00
ATOM	4149	CG	LEU	X	277	51.229	60.638	37.239	0.00	0.00
ATOM	4150	HG	LEU	X	277	50.890	59.616	37.070	0.00	0.00
ATOM	4151	CD1	LEU	X	277	51.703	60.845	38.619	0.00	0.00
ATOM	4152	HD11	LEU	X	277	52.605	60.313	38.924	0.00	0.00
ATOM	4153	HD12	LEU	X	277	50.950	60.606	39.370	0.00	0.00
ATOM	4154	HD13	LEU	X	277	52.005	61.878	38.794	0.00	0.00
ATOM	4155	CD2	LEU	X	277	50.011	61.603	36.884	0.00	0.00
ATOM	4156	HD21	LEU	X	277	50.311	62.619	37.138	0.00	0.00
ATOM	4157	HD22	LEU	X	277	49.758	61.484	35.830	0.00	0.00
ATOM	4158	HD23	LEU	X	277	49.155	61.225	37.442	0.00	0.00
ATOM	4159	C	LEU	X	277	53.880	58.943	36.919	0.00	0.00
ATOM	4160	O	LEU	X	277	54.240	58.767	38.054	0.00	0.00
ATOM	4161	N	VAL	X	278	53.762	57.995	36.000	0.00	0.00
ATOM	4162	H	VAL	X	278	53.591	58.270	35.044	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.850	56.572	36.300	0.00	0.00
ATOM	4164	HA	VAL	X	278	53.453	56.402	37.301	0.00	0.00
ATOM	4165	CB	VAL	X	278	53.101	55.647	35.290	0.00	0.00
ATOM	4166	HB	VAL	X	278	53.557	55.795	34.311	0.00	0.00
ATOM	4167	CG1	VAL	X	278	53.231	54.158	35.514	0.00	0.00
ATOM	4168	HG11	VAL	X	278	52.541	53.618	34.867	0.00	0.00
ATOM	4169	HG12	VAL	X	278	54.247	53.812	35.322	0.00	0.00
ATOM	4170	HG13	VAL	X	278	52.935	53.933	36.539	0.00	0.00
ATOM	4171	CG2	VAL	X	278	51.588	55.937	35.092	0.00	0.00
ATOM	4172	HG21	VAL	X	278	51.075	55.973	36.053	0.00	0.00
ATOM	4173	HG22	VAL	X	278	51.106	55.224	34.424	0.00	0.00
ATOM	4174	HG23	VAL	X	278	51.439	56.911	34.624	0.00	0.00
ATOM	4175	C	VAL	X	278	55.342	56.082	36.425	0.00	0.00
ATOM	4176	O	VAL	X	278	55.543	55.141	37.254	0.00	0.00
ATOM	4177	N	ASN	X	279	56.301	56.665	35.658	0.00	0.00
ATOM	4178	H	ASN	X	279	56.036	57.446	35.075	0.00	0.00

ATOM	4179	CA	ASN	X	279	57.687	56.293	35.684	0.00	0.00
ATOM	4180	HA	ASN	X	279	57.715	55.233	35.433	0.00	0.00
ATOM	4181	CB	ASN	X	279	58.529	57.038	34.637	0.00	0.00
ATOM	4182	HB2	ASN	X	279	58.185	56.919	33.609	0.00	0.00
ATOM	4183	HB3	ASN	X	279	58.618	58.068	34.983	0.00	0.00
ATOM	4184	CG	ASN	X	279	60.032	56.523	34.560	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.955	57.237	34.695	0.00	0.00
ATOM	4186	ND2	ASN	X	279	60.255	55.158	34.512	0.00	0.00
ATOM	4187	HD21	ASN	X	279	61.216	54.935	34.293	0.00	0.00
ATOM	4188	HD22	ASN	X	279	59.545	54.545	34.138	0.00	0.00
ATOM	4189	C	ASN	X	279	58.255	56.545	37.096	0.00	0.00
ATOM	4190	O	ASN	X	279	59.004	55.748	37.556	0.00	0.00
ATOM	4191	N	HIE	X	280	57.772	57.601	37.797	0.00	0.00
ATOM	4192	H	HIE	X	280	57.292	58.339	37.300	0.00	0.00
ATOM	4193	CA	HIE	X	280	58.165	57.823	39.196	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.159	57.403	39.349	0.00	0.00
ATOM	4195	CB	HIE	X	280	58.259	59.386	39.408	0.00	0.00
ATOM	4196	HB2	HIE	X	280	57.329	59.873	39.114	0.00	0.00
ATOM	4197	HB3	HIE	X	280	58.573	59.582	40.433	0.00	0.00
ATOM	4198	CG	HIE	X	280	59.399	59.905	38.635	0.00	0.00
ATOM	4199	ND1	HIE	X	280	60.696	59.759	39.027	0.00	0.00
ATOM	4200	CE1	HIE	X	280	61.436	60.440	38.124	0.00	0.00
ATOM	4201	HE1	HIE	X	280	62.479	60.702	38.215	0.00	0.00
ATOM	4202	NE2	HIE	X	280	60.657	60.924	37.193	0.00	0.00
ATOM	4203	HE2	HIE	X	280	60.989	61.366	36.348	0.00	0.00
ATOM	4204	CD2	HIE	X	280	59.406	60.511	37.457	0.00	0.00
ATOM	4205	HD2	HIE	X	280	58.600	60.817	36.807	0.00	0.00
ATOM	4206	C	HIE	X	280	57.140	57.091	40.135	0.00	0.00
ATOM	4207	O	HIE	X	280	57.464	56.786	41.306	0.00	0.00
ATOM	4208	N	GLU	X	281	55.843	56.841	39.758	0.00	0.00
ATOM	4209	H	GLU	X	281	55.527	57.165	38.855	0.00	0.00
ATOM	4210	CA	GLU	X	281	54.963	56.068	40.670	0.00	0.00
ATOM	4211	HA	GLU	X	281	54.644	56.596	41.568	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.635	55.787	39.900	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.384	56.686	39.336	0.00	0.00
ATOM	4214	HB3	GLU	X	281	53.798	54.990	39.174	0.00	0.00
ATOM	4215	CG	GLU	X	281	52.439	55.420	40.789	0.00	0.00
ATOM	4216	HG2	GLU	X	281	52.711	54.941	41.729	0.00	0.00
ATOM	4217	HG3	GLU	X	281	52.065	56.352	41.212	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.339	54.624	40.088	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.710	55.153	39.136	0.00	0.00
ATOM	4220	OE2	GLU	X	281	51.085	53.500	40.669	0.00	0.00
ATOM	4221	C	GLU	X	281	55.535	54.649	41.146	0.00	0.00
ATOM	4222	O	GLU	X	281	55.703	54.476	42.342	0.00	0.00
ATOM	4223	N	TRP	X	282	55.956	53.801	40.172	0.00	0.00
ATOM	4224	H	TRP	X	282	55.640	54.104	39.262	0.00	0.00
ATOM	4225	CA	TRP	X	282	56.700	52.609	40.409	0.00	0.00
ATOM	4226	HA	TRP	X	282	56.181	52.135	41.242	0.00	0.00
ATOM	4227	CB	TRP	X	282	56.562	51.558	39.263	0.00	0.00
ATOM	4228	HB2	TRP	X	282	56.506	52.124	38.333	0.00	0.00
ATOM	4229	HB3	TRP	X	282	57.363	50.819	39.251	0.00	0.00
ATOM	4230	CG	TRP	X	282	55.240	50.808	39.466	0.00	0.00
ATOM	4231	CD1	TRP	X	282	54.014	51.299	39.600	0.00	0.00
ATOM	4232	HD1	TRP	X	282	53.802	52.348	39.452	0.00	0.00
ATOM	4233	NE1	TRP	X	282	53.117	50.340	40.084	0.00	0.00
ATOM	4234	HE1	TRP	X	282	52.136	50.508	40.254	0.00	0.00
ATOM	4235	CE2	TRP	X	282	53.739	49.093	40.082	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	53.210	47.778	40.215	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	52.142	47.614	40.225	0.00	0.00
ATOM	4238	CH2	TRP	X	282	54.057	46.723	40.231	0.00	0.00
ATOM	4239	HH2	TRP	X	282	53.632	45.741	40.377	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	55.445	46.931	40.096	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	56.161	46.124	40.123	0.00	0.00
ATOM	4242	CE3	TRP	X	282	55.977	48.235	39.932	0.00	0.00
ATOM	4243	HE3	TRP	X	282	57.033	48.461	39.944	0.00	0.00
ATOM	4244	CD2	TRP	X	282	55.073	49.381	39.788	0.00	0.00
ATOM	4245	C	TRP	X	282	58.121	52.759	40.999	0.00	0.00

ATOM	4246	O	TRP	X	282	58.769	51.782	41.275	0.00	0.00
ATOM	4247	N	HIE	X	283	58.580	53.988	41.223	0.00	0.00
ATOM	4248	H	HIE	X	283	58.064	54.795	40.902	0.00	0.00
ATOM	4249	CA	HIE	X	283	59.765	54.330	42.042	0.00	0.00
ATOM	4250	HA	HIE	X	283	60.379	53.437	42.158	0.00	0.00
ATOM	4251	CB	HIE	X	283	60.477	55.519	41.487	0.00	0.00
ATOM	4252	HB2	HIE	X	283	60.471	55.556	40.398	0.00	0.00
ATOM	4253	HB3	HIE	X	283	59.944	56.433	41.752	0.00	0.00
ATOM	4254	CG	HIE	X	283	61.935	55.652	41.949	0.00	0.00
ATOM	4255	ND1	HIE	X	283	62.427	56.066	43.232	0.00	0.00
ATOM	4256	CE1	HIE	X	283	63.727	56.477	43.062	0.00	0.00
ATOM	4257	HE1	HIE	X	283	64.322	57.018	43.784	0.00	0.00
ATOM	4258	NE2	HIE	X	283	64.098	56.201	41.827	0.00	0.00
ATOM	4259	HE2	HIE	X	283	65.047	56.336	41.509	0.00	0.00
ATOM	4260	CD2	HIE	X	283	63.008	55.768	41.101	0.00	0.00
ATOM	4261	HD2	HIE	X	283	63.034	55.758	40.021	0.00	0.00
ATOM	4262	C	HIE	X	283	59.309	54.571	43.447	0.00	0.00
ATOM	4263	O	HIE	X	283	59.907	54.042	44.349	0.00	0.00
ATOM	4264	N	VAL	X	284	58.109	55.142	43.690	0.00	0.00
ATOM	4265	H	VAL	X	284	57.553	55.334	42.869	0.00	0.00
ATOM	4266	CA	VAL	X	284	57.559	55.258	45.121	0.00	0.00
ATOM	4267	HA	VAL	X	284	58.434	55.306	45.770	0.00	0.00
ATOM	4268	CB	VAL	X	284	56.869	56.548	45.480	0.00	0.00
ATOM	4269	HB	VAL	X	284	56.594	56.547	46.535	0.00	0.00
ATOM	4270	CG1	VAL	X	284	57.804	57.688	45.350	0.00	0.00
ATOM	4271	HG11	VAL	X	284	58.204	57.681	44.336	0.00	0.00
ATOM	4272	HG12	VAL	X	284	57.269	58.628	45.481	0.00	0.00
ATOM	4273	HG13	VAL	X	284	58.574	57.566	46.112	0.00	0.00
ATOM	4274	CG2	VAL	X	284	55.518	56.816	44.823	0.00	0.00
ATOM	4275	HG21	VAL	X	284	55.027	57.762	45.050	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.861	55.965	45.003	0.00	0.00
ATOM	4277	HG23	VAL	X	284	55.767	56.880	43.764	0.00	0.00
ATOM	4278	C	VAL	X	284	56.788	53.976	45.482	0.00	0.00
ATOM	4279	O	VAL	X	284	56.000	54.032	46.412	0.00	0.00
ATOM	4280	N	LEU	X	285	57.068	52.899	44.688	0.00	0.00
ATOM	4281	H	LEU	X	285	57.594	53.106	43.851	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.727	51.580	45.231	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.652	51.686	45.374	0.00	0.00
ATOM	4284	CB	LEU	X	285	57.156	50.500	44.228	0.00	0.00
ATOM	4285	HB2	LEU	X	285	57.073	51.012	43.269	0.00	0.00
ATOM	4286	HB3	LEU	X	285	58.197	50.299	44.483	0.00	0.00
ATOM	4287	CG	LEU	X	285	56.373	49.215	44.209	0.00	0.00
ATOM	4288	HG	LEU	X	285	56.151	48.948	45.242	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.975	49.420	43.562	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.319	50.219	43.906	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.402	48.500	43.674	0.00	0.00
ATOM	4292	HD13	LEU	X	285	55.248	49.502	42.510	0.00	0.00
ATOM	4293	CD2	LEU	X	285	57.207	48.099	43.605	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.666	48.487	42.695	0.00	0.00
ATOM	4295	HD22	LEU	X	285	58.035	47.805	44.250	0.00	0.00
ATOM	4296	HD23	LEU	X	285	56.620	47.196	43.438	0.00	0.00
ATOM	4297	C	LEU	X	285	57.344	51.347	46.645	0.00	0.00
ATOM	4298	O	LEU	X	285	58.477	51.710	46.871	0.00	0.00
ATOM	4299	N	PRO	X	286	56.647	50.808	47.650	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.216	50.462	47.632	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.922	50.035	46.673	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.661	51.395	47.725	0.00	0.00
ATOM	4303	CG	PRO	X	286	55.057	49.454	48.755	0.00	0.00
ATOM	4304	HG2	PRO	X	286	55.130	48.481	48.269	0.00	0.00
ATOM	4305	HG3	PRO	X	286	54.118	49.482	49.307	0.00	0.00
ATOM	4306	CB	PRO	X	286	56.201	49.681	49.695	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.462	48.727	50.152	0.00	0.00
ATOM	4308	HB3	PRO	X	286	55.871	50.514	50.315	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.374	50.151	48.736	0.00	0.00
ATOM	4310	HA	PRO	X	286	58.105	50.801	49.215	0.00	0.00
ATOM	4311	C	PRO	X	286	58.161	48.965	48.361	0.00	0.00
ATOM	4312	O	PRO	X	286	58.064	48.386	47.249	0.00	0.00

ATOM	4313	N	GLN	X	287	59.028	48.569	49.293	0.00	0.00
ATOM	4314	H	GLN	X	287	58.929	48.986	50.208	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.329	47.862	48.969	0.00	0.00
ATOM	4316	HA	GLN	X	287	60.334	47.500	47.941	0.00	0.00
ATOM	4317	CB	GLN	X	287	61.498	48.828	49.317	0.00	0.00
ATOM	4318	HB2	GLN	X	287	61.364	49.019	50.382	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.458	48.355	49.108	0.00	0.00
ATOM	4320	CG	GLN	X	287	61.407	50.142	48.591	0.00	0.00
ATOM	4321	HG2	GLN	X	287	60.399	50.534	48.725	0.00	0.00
ATOM	4322	HG3	GLN	X	287	62.155	50.744	49.106	0.00	0.00
ATOM	4323	CD	GLN	X	287	61.877	49.982	47.154	0.00	0.00
ATOM	4324	OE1	GLN	X	287	63.008	49.559	46.861	0.00	0.00
ATOM	4325	NE2	GLN	X	287	61.008	50.204	46.177	0.00	0.00
ATOM	4326	HE21	GLN	X	287	61.341	50.078	45.232	0.00	0.00
ATOM	4327	HE22	GLN	X	287	60.070	50.577	46.214	0.00	0.00
ATOM	4328	C	GLN	X	287	60.485	46.582	49.775	0.00	0.00
ATOM	4329	O	GLN	X	287	59.835	46.516	50.823	0.00	0.00
ATOM	4330	N	GLU	X	288	61.381	45.644	49.439	0.00	0.00
ATOM	4331	H	GLU	X	288	61.939	45.779	48.608	0.00	0.00
ATOM	4332	CA	GLU	X	288	61.598	44.313	50.054	0.00	0.00
ATOM	4333	HA	GLU	X	288	62.058	43.750	49.241	0.00	0.00
ATOM	4334	CB	GLU	X	288	62.427	44.262	51.286	0.00	0.00
ATOM	4335	HB2	GLU	X	288	62.017	44.831	52.120	0.00	0.00
ATOM	4336	HB3	GLU	X	288	62.473	43.238	51.656	0.00	0.00
ATOM	4337	CG	GLU	X	288	63.830	44.846	51.053	0.00	0.00
ATOM	4338	HG2	GLU	X	288	64.280	44.256	50.255	0.00	0.00
ATOM	4339	HG3	GLU	X	288	63.755	45.905	50.805	0.00	0.00
ATOM	4340	CD	GLU	X	288	64.837	44.688	52.219	0.00	0.00
ATOM	4341	OE1	GLU	X	288	64.609	45.306	53.288	0.00	0.00
ATOM	4342	OE2	GLU	X	288	65.808	43.931	52.067	0.00	0.00
ATOM	4343	C	GLU	X	288	60.238	43.616	50.273	0.00	0.00
ATOM	4344	O	GLU	X	288	60.120	42.754	51.123	0.00	0.00
ATOM	4345	N	SER	X	289	59.058	43.875	49.636	0.00	0.00
ATOM	4346	H	SER	X	289	59.021	44.601	48.935	0.00	0.00
ATOM	4347	CA	SER	X	289	57.771	43.274	50.016	0.00	0.00
ATOM	4348	HA	SER	X	289	57.859	42.557	50.832	0.00	0.00
ATOM	4349	CB	SER	X	289	56.871	44.350	50.566	0.00	0.00
ATOM	4350	HB2	SER	X	289	56.478	45.062	49.839	0.00	0.00
ATOM	4351	HB3	SER	X	289	55.992	43.953	51.074	0.00	0.00
ATOM	4352	OG	SER	X	289	57.552	45.090	51.468	0.00	0.00
ATOM	4353	HG	SER	X	289	58.452	45.078	51.133	0.00	0.00
ATOM	4354	C	SER	X	289	56.951	42.630	48.901	0.00	0.00
ATOM	4355	O	SER	X	289	56.451	43.236	47.971	0.00	0.00
ATOM	4356	N	VAL	X	290	56.799	41.308	49.016	0.00	0.00
ATOM	4357	H	VAL	X	290	57.058	40.786	49.841	0.00	0.00
ATOM	4358	CA	VAL	X	290	55.796	40.605	48.269	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.057	40.645	47.212	0.00	0.00
ATOM	4360	CB	VAL	X	290	55.677	39.087	48.643	0.00	0.00
ATOM	4361	HB	VAL	X	290	55.439	38.985	49.702	0.00	0.00
ATOM	4362	CG1	VAL	X	290	54.644	38.301	47.853	0.00	0.00
ATOM	4363	HG11	VAL	X	290	54.510	38.750	46.869	0.00	0.00
ATOM	4364	HG12	VAL	X	290	55.040	37.302	47.670	0.00	0.00
ATOM	4365	HG13	VAL	X	290	53.700	38.163	48.380	0.00	0.00
ATOM	4366	CG2	VAL	X	290	57.065	38.397	48.512	0.00	0.00
ATOM	4367	HG21	VAL	X	290	56.931	37.415	48.964	0.00	0.00
ATOM	4368	HG22	VAL	X	290	57.855	38.874	49.093	0.00	0.00
ATOM	4369	HG23	VAL	X	290	57.315	38.412	47.451	0.00	0.00
ATOM	4370	C	VAL	X	290	54.354	41.200	48.582	0.00	0.00
ATOM	4371	O	VAL	X	290	54.016	41.463	49.758	0.00	0.00
ATOM	4372	N	PHE	X	291	53.440	41.370	47.538	0.00	0.00
ATOM	4373	H	PHE	X	291	53.771	41.064	46.633	0.00	0.00
ATOM	4374	CA	PHE	X	291	52.047	41.697	47.589	0.00	0.00
ATOM	4375	HA	PHE	X	291	51.669	41.751	46.567	0.00	0.00
ATOM	4376	CB	PHE	X	291	51.270	40.621	48.418	0.00	0.00
ATOM	4377	HB2	PHE	X	291	51.916	39.743	48.412	0.00	0.00
ATOM	4378	HB3	PHE	X	291	51.095	40.910	49.454	0.00	0.00
ATOM	4379	CG	PHE	X	291	49.954	40.118	47.883	0.00	0.00

ATOM	4380	CD1	PHE	X	291	49.074	41.025	47.212	0.00	0.00
ATOM	4381	HD1	PHE	X	291	49.370	42.035	46.969	0.00	0.00
ATOM	4382	CE1	PHE	X	291	47.839	40.524	46.774	0.00	0.00
ATOM	4383	HE1	PHE	X	291	47.221	41.235	46.245	0.00	0.00
ATOM	4384	CZ	PHE	X	291	47.435	39.198	47.032	0.00	0.00
ATOM	4385	HZ	PHE	X	291	46.545	38.822	46.550	0.00	0.00
ATOM	4386	CE2	PHE	X	291	48.345	38.300	47.671	0.00	0.00
ATOM	4387	HE2	PHE	X	291	48.021	37.293	47.887	0.00	0.00
ATOM	4388	CD2	PHE	X	291	49.608	38.790	48.058	0.00	0.00
ATOM	4389	HD2	PHE	X	291	50.127	38.148	48.754	0.00	0.00
ATOM	4390	C	PHE	X	291	51.841	43.136	48.095	0.00	0.00
ATOM	4391	O	PHE	X	291	50.755	43.420	48.556	0.00	0.00
ATOM	4392	N	ARG	X	292	52.769	44.063	47.996	0.00	0.00
ATOM	4393	H	ARG	X	292	53.633	43.807	47.541	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.426	45.458	48.081	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.448	45.555	48.553	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.479	46.114	48.993	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.440	45.961	48.503	0.00	0.00
ATOM	4398	HB3	ARG	X	292	53.396	47.201	48.982	0.00	0.00
ATOM	4399	CG	ARG	X	292	53.471	45.679	50.496	0.00	0.00
ATOM	4400	HG2	ARG	X	292	53.766	44.682	50.822	0.00	0.00
ATOM	4401	HG3	ARG	X	292	54.215	46.353	50.920	0.00	0.00
ATOM	4402	CD	ARG	X	292	52.225	46.026	51.320	0.00	0.00
ATOM	4403	HD2	ARG	X	292	52.508	46.127	52.368	0.00	0.00
ATOM	4404	HD3	ARG	X	292	51.950	47.028	50.991	0.00	0.00
ATOM	4405	NE	ARG	X	292	51.193	45.005	51.024	0.00	0.00
ATOM	4406	HE	ARG	X	292	50.853	44.936	50.075	0.00	0.00
ATOM	4407	CZ	ARG	X	292	50.783	44.096	51.880	0.00	0.00
ATOM	4408	NH1	ARG	X	292	50.816	44.267	53.170	0.00	0.00
ATOM	4409	HH11	ARG	X	292	50.942	45.189	53.562	0.00	0.00
ATOM	4410	HH12	ARG	X	292	50.369	43.567	53.744	0.00	0.00
ATOM	4411	NH2	ARG	X	292	50.381	42.883	51.516	0.00	0.00
ATOM	4412	HH21	ARG	X	292	50.151	42.797	50.537	0.00	0.00
ATOM	4413	HH22	ARG	X	292	50.169	42.136	52.162	0.00	0.00
ATOM	4414	C	ARG	X	292	52.370	46.041	46.709	0.00	0.00
ATOM	4415	O	ARG	X	292	53.171	45.712	45.813	0.00	0.00
ATOM	4416	N	PHE	X	293	51.583	47.138	46.545	0.00	0.00
ATOM	4417	H	PHE	X	293	50.939	47.331	47.298	0.00	0.00
ATOM	4418	CA	PHE	X	293	51.454	47.927	45.337	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.264	47.682	44.650	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.189	47.610	44.662	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.347	48.097	45.153	0.00	0.00
ATOM	4422	HB3	PHE	X	293	50.220	48.127	43.703	0.00	0.00
ATOM	4423	CG	PHE	X	293	49.884	46.090	44.471	0.00	0.00
ATOM	4424	CD1	PHE	X	293	50.774	45.181	43.832	0.00	0.00
ATOM	4425	HD1	PHE	X	293	51.664	45.593	43.381	0.00	0.00
ATOM	4426	CE1	PHE	X	293	50.576	43.787	43.780	0.00	0.00
ATOM	4427	HE1	PHE	X	293	51.297	43.123	43.327	0.00	0.00
ATOM	4428	CZ	PHE	X	293	49.362	43.304	44.294	0.00	0.00
ATOM	4429	HZ	PHE	X	293	49.188	42.240	44.354	0.00	0.00
ATOM	4430	CE2	PHE	X	293	48.431	44.186	44.884	0.00	0.00
ATOM	4431	HE2	PHE	X	293	47.551	43.688	45.264	0.00	0.00
ATOM	4432	CD2	PHE	X	293	48.666	45.602	44.912	0.00	0.00
ATOM	4433	HD2	PHE	X	293	47.909	46.233	45.352	0.00	0.00
ATOM	4434	C	PHE	X	293	51.651	49.480	45.621	0.00	0.00
ATOM	4435	O	PHE	X	293	51.957	49.975	46.737	0.00	0.00
ATOM	4436	N	SER	X	294	51.567	50.318	44.603	0.00	0.00
ATOM	4437	H	SER	X	294	51.289	49.912	43.721	0.00	0.00
ATOM	4438	CA	SER	X	294	51.916	51.735	44.653	0.00	0.00
ATOM	4439	HA	SER	X	294	52.885	51.840	45.140	0.00	0.00
ATOM	4440	CB	SER	X	294	52.175	52.187	43.122	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.074	53.272	43.173	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.155	51.937	42.716	0.00	0.00
ATOM	4443	OG	SER	X	294	51.175	51.639	42.311	0.00	0.00
ATOM	4444	HG	SER	X	294	51.130	52.292	41.608	0.00	0.00
ATOM	4445	C	SER	X	294	50.910	52.653	45.332	0.00	0.00
ATOM	4446	O	SER	X	294	51.200	53.235	46.340	0.00	0.00

ATOM	4447	N	PHE	X	295	49.743	52.634	44.719	0.00	0.00
ATOM	4448	H	PHE	X	295	49.687	52.171	43.823	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.517	53.459	45.040	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.642	53.915	46.022	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.599	54.731	44.151	0.00	0.00
ATOM	4452	HB2	PHE	X	295	49.003	54.501	43.165	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.584	55.110	44.031	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.519	55.815	44.800	0.00	0.00
ATOM	4455	CD1	PHE	X	295	49.159	56.532	45.972	0.00	0.00
ATOM	4456	HD1	PHE	X	295	48.213	56.322	46.449	0.00	0.00
ATOM	4457	CE1	PHE	X	295	50.000	57.529	46.545	0.00	0.00
ATOM	4458	HE1	PHE	X	295	49.703	57.980	47.480	0.00	0.00
ATOM	4459	CZ	PHE	X	295	51.165	57.864	45.786	0.00	0.00
ATOM	4460	HZ	PHE	X	295	51.936	58.507	46.182	0.00	0.00
ATOM	4461	CE2	PHE	X	295	51.501	57.164	44.619	0.00	0.00
ATOM	4462	HE2	PHE	X	295	52.416	57.307	44.064	0.00	0.00
ATOM	4463	CD2	PHE	X	295	50.687	56.115	44.159	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.969	55.512	43.309	0.00	0.00
ATOM	4465	C	PHE	X	295	47.304	52.536	44.982	0.00	0.00
ATOM	4466	O	PHE	X	295	46.912	51.984	43.973	0.00	0.00
ATOM	4467	N	VAL	X	296	46.754	52.392	46.180	0.00	0.00
ATOM	4468	H	VAL	X	296	47.242	52.681	47.015	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.546	51.541	46.415	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.035	51.364	45.469	0.00	0.00
ATOM	4471	CB	VAL	X	296	45.934	50.111	46.925	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.052	49.517	46.686	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.111	49.424	46.215	0.00	0.00
ATOM	4474	HG11	VAL	X	296	46.789	49.285	45.183	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.957	50.099	46.347	0.00	0.00
ATOM	4476	HG13	VAL	X	296	47.379	48.431	46.576	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.128	50.114	48.379	0.00	0.00
ATOM	4478	HG21	VAL	X	296	45.214	50.389	48.906	0.00	0.00
ATOM	4479	HG22	VAL	X	296	46.991	50.715	48.666	0.00	0.00
ATOM	4480	HG23	VAL	X	296	46.437	49.092	48.596	0.00	0.00
ATOM	4481	C	VAL	X	296	44.541	52.288	47.356	0.00	0.00
ATOM	4482	O	VAL	X	296	44.962	53.297	47.927	0.00	0.00
ATOM	4483	N	PRO	X	297	43.285	51.812	47.484	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.655	50.609	46.898	0.00	0.00
ATOM	4485	HD2	PRO	X	297	42.978	49.718	47.437	0.00	0.00
ATOM	4486	HD3	PRO	X	297	42.817	50.549	45.822	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.133	50.688	47.224	0.00	0.00
ATOM	4488	HG2	PRO	X	297	40.742	49.673	47.276	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.589	51.142	46.396	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.190	51.479	48.478	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.529	50.856	49.306	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.198	51.899	48.645	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.274	52.530	48.250	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.760	53.354	47.753	0.00	0.00
ATOM	4495	C	PRO	X	297	42.802	53.068	49.626	0.00	0.00
ATOM	4496	O	PRO	X	297	43.361	52.358	50.456	0.00	0.00
ATOM	4497	N	VAL	X	298	42.499	54.303	49.895	0.00	0.00
ATOM	4498	H	VAL	X	298	41.985	54.848	49.219	0.00	0.00
ATOM	4499	CA	VAL	X	298	42.856	54.956	51.149	0.00	0.00
ATOM	4500	HA	VAL	X	298	43.763	54.534	51.582	0.00	0.00
ATOM	4501	CB	VAL	X	298	43.137	56.445	50.844	0.00	0.00
ATOM	4502	HB	VAL	X	298	42.232	57.053	50.834	0.00	0.00
ATOM	4503	CG1	VAL	X	298	44.022	56.884	52.074	0.00	0.00
ATOM	4504	HG11	VAL	X	298	44.522	57.828	51.856	0.00	0.00
ATOM	4505	HG12	VAL	X	298	43.378	57.128	52.919	0.00	0.00
ATOM	4506	HG13	VAL	X	298	44.757	56.149	52.404	0.00	0.00
ATOM	4507	CG2	VAL	X	298	44.038	56.620	49.604	0.00	0.00
ATOM	4508	HG21	VAL	X	298	44.876	55.947	49.783	0.00	0.00
ATOM	4509	HG22	VAL	X	298	44.390	57.636	49.427	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.447	56.304	48.744	0.00	0.00
ATOM	4511	C	VAL	X	298	41.785	54.781	52.214	0.00	0.00
ATOM	4512	O	VAL	X	298	40.557	54.977	51.990	0.00	0.00
ATOM	4513	N	VAL	X	299	42.206	54.679	53.488	0.00	0.00

ATOM	4514	H	VAL	X	299	43.202	54.619	53.644	0.00	0.00
ATOM	4515	CA	VAL	X	299	41.307	54.922	54.627	0.00	0.00
ATOM	4516	HA	VAL	X	299	40.314	54.549	54.378	0.00	0.00
ATOM	4517	CB	VAL	X	299	41.896	54.152	55.868	0.00	0.00
ATOM	4518	HB	VAL	X	299	42.860	54.543	56.195	0.00	0.00
ATOM	4519	CG1	VAL	X	299	40.946	54.440	57.082	0.00	0.00
ATOM	4520	HG11	VAL	X	299	41.277	53.870	57.950	0.00	0.00
ATOM	4521	HG12	VAL	X	299	40.827	55.481	57.381	0.00	0.00
ATOM	4522	HG13	VAL	X	299	39.943	54.077	56.862	0.00	0.00
ATOM	4523	CG2	VAL	X	299	42.002	52.652	55.591	0.00	0.00
ATOM	4524	HG21	VAL	X	299	42.137	52.073	56.504	0.00	0.00
ATOM	4525	HG22	VAL	X	299	42.855	52.385	54.967	0.00	0.00
ATOM	4526	HG23	VAL	X	299	41.122	52.238	55.098	0.00	0.00
ATOM	4527	C	VAL	X	299	41.122	56.478	54.786	0.00	0.00
ATOM	4528	O	VAL	X	299	42.022	57.096	55.381	0.00	0.00
ATOM	4529	N	ASP	X	300	40.057	57.007	54.202	0.00	0.00
ATOM	4530	H	ASP	X	300	39.454	56.331	53.756	0.00	0.00
ATOM	4531	CA	ASP	X	300	39.933	58.453	54.044	0.00	0.00
ATOM	4532	HA	ASP	X	300	40.826	58.894	54.486	0.00	0.00
ATOM	4533	CB	ASP	X	300	39.887	58.800	52.536	0.00	0.00
ATOM	4534	HB2	ASP	X	300	40.088	59.869	52.466	0.00	0.00
ATOM	4535	HB3	ASP	X	300	40.706	58.302	52.018	0.00	0.00
ATOM	4536	CG	ASP	X	300	38.529	58.519	51.882	0.00	0.00
ATOM	4537	OD1	ASP	X	300	37.776	57.611	52.273	0.00	0.00
ATOM	4538	OD2	ASP	X	300	38.191	59.287	50.980	0.00	0.00
ATOM	4539	C	ASP	X	300	38.860	59.081	54.827	0.00	0.00
ATOM	4540	O	ASP	X	300	38.890	60.308	54.871	0.00	0.00
ATOM	4541	N	GLY	X	301	38.013	58.265	55.491	0.00	0.00
ATOM	4542	H	GLY	X	301	38.047	57.263	55.369	0.00	0.00
ATOM	4543	CA	GLY	X	301	36.892	58.763	56.252	0.00	0.00
ATOM	4544	HA2	GLY	X	301	36.541	57.856	56.744	0.00	0.00
ATOM	4545	HA3	GLY	X	301	37.371	59.500	56.896	0.00	0.00
ATOM	4546	C	GLY	X	301	35.725	59.283	55.342	0.00	0.00
ATOM	4547	O	GLY	X	301	34.754	59.862	55.856	0.00	0.00
ATOM	4548	N	ASP	X	302	35.750	59.165	53.967	0.00	0.00
ATOM	4549	H	ASP	X	302	36.502	58.602	53.595	0.00	0.00
ATOM	4550	CA	ASP	X	302	34.702	59.650	53.090	0.00	0.00
ATOM	4551	HA	ASP	X	302	33.935	60.193	53.642	0.00	0.00
ATOM	4552	CB	ASP	X	302	35.223	60.774	52.211	0.00	0.00
ATOM	4553	HB2	ASP	X	302	35.455	61.662	52.799	0.00	0.00
ATOM	4554	HB3	ASP	X	302	36.201	60.513	51.805	0.00	0.00
ATOM	4555	CG	ASP	X	302	34.184	61.193	51.134	0.00	0.00
ATOM	4556	OD1	ASP	X	302	34.316	60.827	49.953	0.00	0.00
ATOM	4557	OD2	ASP	X	302	33.259	62.017	51.444	0.00	0.00
ATOM	4558	C	ASP	X	302	34.120	58.475	52.237	0.00	0.00
ATOM	4559	O	ASP	X	302	32.901	58.249	52.131	0.00	0.00
ATOM	4560	N	PHE	X	303	35.040	57.668	51.668	0.00	0.00
ATOM	4561	H	PHE	X	303	36.007	57.957	51.632	0.00	0.00
ATOM	4562	CA	PHE	X	303	34.732	56.387	51.166	0.00	0.00
ATOM	4563	HA	PHE	X	303	33.669	56.261	50.961	0.00	0.00
ATOM	4564	CB	PHE	X	303	35.632	56.092	49.952	0.00	0.00
ATOM	4565	HB2	PHE	X	303	35.929	57.019	49.461	0.00	0.00
ATOM	4566	HB3	PHE	X	303	36.503	55.526	50.283	0.00	0.00
ATOM	4567	CG	PHE	X	303	34.918	55.179	48.910	0.00	0.00
ATOM	4568	CD1	PHE	X	303	34.763	53.769	49.149	0.00	0.00
ATOM	4569	HD1	PHE	X	303	35.098	53.477	50.134	0.00	0.00
ATOM	4570	CE1	PHE	X	303	34.143	52.907	48.145	0.00	0.00
ATOM	4571	HE1	PHE	X	303	34.053	51.842	48.302	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.847	53.548	46.924	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.407	52.989	46.112	0.00	0.00
ATOM	4574	CE2	PHE	X	303	34.066	54.867	46.659	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.765	55.386	45.761	0.00	0.00
ATOM	4576	CD2	PHE	X	303	34.551	55.704	47.705	0.00	0.00
ATOM	4577	HD2	PHE	X	303	34.659	56.773	47.592	0.00	0.00
ATOM	4578	C	PHE	X	303	34.920	55.382	52.245	0.00	0.00
ATOM	4579	O	PHE	X	303	34.044	54.554	52.505	0.00	0.00
ATOM	4580	N	LEU	X	304	36.041	55.460	52.974	0.00	0.00

ATOM	4581	H	LEU	X	304	36.645	56.186	52.614	0.00	0.00
ATOM	4582	CA	LEU	X	304	36.485	54.389	53.911	0.00	0.00
ATOM	4583	HA	LEU	X	304	35.704	53.636	54.011	0.00	0.00
ATOM	4584	CB	LEU	X	304	37.754	53.728	53.483	0.00	0.00
ATOM	4585	HB2	LEU	X	304	38.476	54.499	53.213	0.00	0.00
ATOM	4586	HB3	LEU	X	304	37.997	52.994	54.251	0.00	0.00
ATOM	4587	CG	LEU	X	304	37.714	52.875	52.239	0.00	0.00
ATOM	4588	HG	LEU	X	304	37.612	53.512	51.361	0.00	0.00
ATOM	4589	CD1	LEU	X	304	39.030	52.068	52.105	0.00	0.00
ATOM	4590	HD11	LEU	X	304	38.971	51.501	51.176	0.00	0.00
ATOM	4591	HD12	LEU	X	304	39.186	51.473	53.005	0.00	0.00
ATOM	4592	HD13	LEU	X	304	39.852	52.774	51.984	0.00	0.00
ATOM	4593	CD2	LEU	X	304	36.641	51.789	52.316	0.00	0.00
ATOM	4594	HD21	LEU	X	304	36.727	51.355	53.313	0.00	0.00
ATOM	4595	HD22	LEU	X	304	35.662	52.253	52.197	0.00	0.00
ATOM	4596	HD23	LEU	X	304	36.859	51.037	51.558	0.00	0.00
ATOM	4597	C	LEU	X	304	36.573	54.907	55.304	0.00	0.00
ATOM	4598	O	LEU	X	304	37.582	55.441	55.706	0.00	0.00
ATOM	4599	N	SER	X	305	35.536	54.734	56.174	0.00	0.00
ATOM	4600	H	SER	X	305	34.744	54.243	55.784	0.00	0.00
ATOM	4601	CA	SER	X	305	35.405	55.188	57.554	0.00	0.00
ATOM	4602	HA	SER	X	305	35.451	56.277	57.570	0.00	0.00
ATOM	4603	CB	SER	X	305	33.981	54.876	58.103	0.00	0.00
ATOM	4604	HB2	SER	X	305	34.044	53.790	58.042	0.00	0.00
ATOM	4605	HB3	SER	X	305	33.860	55.059	59.170	0.00	0.00
ATOM	4606	OG	SER	X	305	32.841	55.382	57.423	0.00	0.00
ATOM	4607	HG	SER	X	305	32.991	55.106	56.516	0.00	0.00
ATOM	4608	C	SER	X	305	36.407	54.766	58.611	0.00	0.00
ATOM	4609	O	SER	X	305	36.592	55.475	59.597	0.00	0.00
ATOM	4610	N	ASP	X	306	36.994	53.622	58.331	0.00	0.00
ATOM	4611	H	ASP	X	306	36.865	53.312	57.378	0.00	0.00
ATOM	4612	CA	ASP	X	306	37.949	52.826	59.180	0.00	0.00
ATOM	4613	HA	ASP	X	306	38.651	53.520	59.643	0.00	0.00
ATOM	4614	CB	ASP	X	306	37.195	52.223	60.409	0.00	0.00
ATOM	4615	HB2	ASP	X	306	36.429	52.934	60.716	0.00	0.00
ATOM	4616	HB3	ASP	X	306	36.692	51.318	60.067	0.00	0.00
ATOM	4617	CG	ASP	X	306	38.038	51.869	61.585	0.00	0.00
ATOM	4618	OD1	ASP	X	306	39.261	51.648	61.482	0.00	0.00
ATOM	4619	OD2	ASP	X	306	37.476	51.752	62.702	0.00	0.00
ATOM	4620	C	ASP	X	306	38.696	51.733	58.329	0.00	0.00
ATOM	4621	O	ASP	X	306	38.407	51.475	57.164	0.00	0.00
ATOM	4622	N	THR	X	307	39.564	50.972	59.031	0.00	0.00
ATOM	4623	H	THR	X	307	39.784	51.138	60.003	0.00	0.00
ATOM	4624	CA	THR	X	307	40.241	49.842	58.412	0.00	0.00
ATOM	4625	HA	THR	X	307	40.560	50.179	57.426	0.00	0.00
ATOM	4626	CB	THR	X	307	41.475	49.302	59.295	0.00	0.00
ATOM	4627	HB	THR	X	307	41.843	48.370	58.866	0.00	0.00
ATOM	4628	CG2	THR	X	307	42.527	50.374	59.377	0.00	0.00
ATOM	4629	HG21	THR	X	307	42.169	51.163	60.038	0.00	0.00
ATOM	4630	HG22	THR	X	307	42.873	50.748	58.414	0.00	0.00
ATOM	4631	HG23	THR	X	307	43.425	49.901	59.777	0.00	0.00
ATOM	4632	OG1	THR	X	307	40.954	48.979	60.562	0.00	0.00
ATOM	4633	HG1	THR	X	307	40.147	48.486	60.393	0.00	0.00
ATOM	4634	C	THR	X	307	39.214	48.647	58.177	0.00	0.00
ATOM	4635	O	THR	X	307	38.505	48.370	59.151	0.00	0.00
ATOM	4636	N	PRO	X	308	39.173	48.064	56.998	0.00	0.00
ATOM	4637	CD	PRO	X	308	40.052	48.311	55.852	0.00	0.00
ATOM	4638	HD2	PRO	X	308	41.072	48.183	56.215	0.00	0.00
ATOM	4639	HD3	PRO	X	308	40.033	49.330	55.464	0.00	0.00
ATOM	4640	CG	PRO	X	308	39.632	47.269	54.825	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.954	46.246	55.021	0.00	0.00
ATOM	4642	HG3	PRO	X	308	39.950	47.585	53.831	0.00	0.00
ATOM	4643	CB	PRO	X	308	38.139	47.241	54.944	0.00	0.00
ATOM	4644	HB2	PRO	X	308	37.581	46.378	54.580	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.770	48.180	54.532	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.999	47.363	56.457	0.00	0.00
ATOM	4647	HA	PRO	X	308	37.267	48.163	56.569	0.00	0.00

ATOM	4648	C	PRO	X	308	37.539	46.075	57.112	0.00	0.00
ATOM	4649	O	PRO	X	308	36.333	45.799	57.018	0.00	0.00
ATOM	4650	N	GLU	X	309	38.346	45.336	57.867	0.00	0.00
ATOM	4651	H	GLU	X	309	39.299	45.588	58.087	0.00	0.00
ATOM	4652	CA	GLU	X	309	37.874	44.161	58.655	0.00	0.00
ATOM	4653	HA	GLU	X	309	37.250	43.681	57.901	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.033	43.252	59.013	0.00	0.00
ATOM	4655	HB2	GLU	X	309	39.715	43.263	58.163	0.00	0.00
ATOM	4656	HB3	GLU	X	309	39.488	43.738	59.876	0.00	0.00
ATOM	4657	CG	GLU	X	309	38.694	41.821	59.303	0.00	0.00
ATOM	4658	HG2	GLU	X	309	37.662	41.835	59.654	0.00	0.00
ATOM	4659	HG3	GLU	X	309	38.829	41.335	58.337	0.00	0.00
ATOM	4660	CD	GLU	X	309	39.783	41.193	60.137	0.00	0.00
ATOM	4661	OE1	GLU	X	309	39.578	41.076	61.415	0.00	0.00
ATOM	4662	OE2	GLU	X	309	40.898	40.870	59.671	0.00	0.00
ATOM	4663	C	GLU	X	309	37.029	44.614	59.896	0.00	0.00
ATOM	4664	O	GLU	X	309	36.226	43.811	60.384	0.00	0.00
ATOM	4665	N	ALA	X	310	37.124	45.916	60.287	0.00	0.00
ATOM	4666	H	ALA	X	310	37.759	46.507	59.770	0.00	0.00
ATOM	4667	CA	ALA	X	310	36.315	46.548	61.303	0.00	0.00
ATOM	4668	HA	ALA	X	310	36.079	45.820	62.079	0.00	0.00
ATOM	4669	CB	ALA	X	310	37.188	47.603	62.010	0.00	0.00
ATOM	4670	HB1	ALA	X	310	36.861	47.912	63.003	0.00	0.00
ATOM	4671	HB2	ALA	X	310	37.271	48.474	61.360	0.00	0.00
ATOM	4672	HB3	ALA	X	310	38.169	47.136	62.106	0.00	0.00
ATOM	4673	C	ALA	X	310	34.965	47.013	60.684	0.00	0.00
ATOM	4674	O	ALA	X	310	33.927	46.838	61.345	0.00	0.00
ATOM	4675	N	LEU	X	311	34.987	47.488	59.421	0.00	0.00
ATOM	4676	H	LEU	X	311	35.887	47.628	58.983	0.00	0.00
ATOM	4677	CA	LEU	X	311	33.754	47.932	58.783	0.00	0.00
ATOM	4678	HA	LEU	X	311	33.221	48.562	59.496	0.00	0.00
ATOM	4679	CB	LEU	X	311	34.097	48.721	57.547	0.00	0.00
ATOM	4680	HB2	LEU	X	311	34.600	47.993	56.911	0.00	0.00
ATOM	4681	HB3	LEU	X	311	33.146	48.938	57.061	0.00	0.00
ATOM	4682	CG	LEU	X	311	35.002	49.916	57.805	0.00	0.00
ATOM	4683	HG	LEU	X	311	35.985	49.717	58.232	0.00	0.00
ATOM	4684	CD1	LEU	X	311	35.268	50.647	56.427	0.00	0.00
ATOM	4685	HD11	LEU	X	311	35.538	51.671	56.685	0.00	0.00
ATOM	4686	HD12	LEU	X	311	34.305	50.677	55.916	0.00	0.00
ATOM	4687	HD13	LEU	X	311	36.055	50.270	55.774	0.00	0.00
ATOM	4688	CD2	LEU	X	311	34.206	50.880	58.723	0.00	0.00
ATOM	4689	HD21	LEU	X	311	34.782	51.797	58.841	0.00	0.00
ATOM	4690	HD22	LEU	X	311	33.156	51.003	58.458	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.142	50.477	59.734	0.00	0.00
ATOM	4692	C	LEU	X	311	32.723	46.786	58.476	0.00	0.00
ATOM	4693	O	LEU	X	311	31.530	47.140	58.560	0.00	0.00
ATOM	4694	N	ILE	X	312	33.108	45.544	58.163	0.00	0.00
ATOM	4695	H	ILE	X	312	34.080	45.326	57.996	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.090	44.458	58.098	0.00	0.00
ATOM	4697	HA	ILE	X	312	31.358	44.664	57.316	0.00	0.00
ATOM	4698	CB	ILE	X	312	32.580	43.080	57.742	0.00	0.00
ATOM	4699	HB	ILE	X	312	32.992	42.630	58.646	0.00	0.00
ATOM	4700	CG2	ILE	X	312	31.528	42.226	57.173	0.00	0.00
ATOM	4701	HG21	ILE	X	312	31.766	41.214	56.847	0.00	0.00
ATOM	4702	HG22	ILE	X	312	31.040	42.746	56.349	0.00	0.00
ATOM	4703	HG23	ILE	X	312	30.795	42.223	57.980	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.735	43.003	56.708	0.00	0.00
ATOM	4705	HG12	ILE	X	312	33.426	43.295	55.704	0.00	0.00
ATOM	4706	HG13	ILE	X	312	34.431	43.799	56.973	0.00	0.00
ATOM	4707	CD1	ILE	X	312	34.526	41.705	56.764	0.00	0.00
ATOM	4708	HD11	ILE	X	312	35.144	41.704	55.866	0.00	0.00
ATOM	4709	HD12	ILE	X	312	33.855	40.851	56.677	0.00	0.00
ATOM	4710	HD13	ILE	X	312	35.161	41.637	57.647	0.00	0.00
ATOM	4711	C	ILE	X	312	31.285	44.319	59.359	0.00	0.00
ATOM	4712	O	ILE	X	312	30.087	44.489	59.363	0.00	0.00
ATOM	4713	N	ASN	X	313	31.973	44.358	60.492	0.00	0.00
ATOM	4714	H	ASN	X	313	32.978	44.455	60.466	0.00	0.00

ATOM	4715	CA	ASN	X	313	31.483	44.183	61.846	0.00	0.00
ATOM	4716	HA	ASN	X	313	30.644	43.496	61.957	0.00	0.00
ATOM	4717	CB	ASN	X	313	32.757	43.754	62.729	0.00	0.00
ATOM	4718	HB2	ASN	X	313	33.151	42.786	62.418	0.00	0.00
ATOM	4719	HB3	ASN	X	313	33.452	44.555	62.479	0.00	0.00
ATOM	4720	CG	ASN	X	313	32.654	43.790	64.207	0.00	0.00
ATOM	4721	OD1	ASN	X	313	33.072	44.828	64.833	0.00	0.00
ATOM	4722	ND2	ASN	X	313	32.021	42.833	64.821	0.00	0.00
ATOM	4723	HD21	ASN	X	313	31.877	42.911	65.817	0.00	0.00
ATOM	4724	HD22	ASN	X	313	31.719	42.009	64.322	0.00	0.00
ATOM	4725	C	ASN	X	313	30.862	45.438	62.475	0.00	0.00
ATOM	4726	O	ASN	X	313	30.153	45.425	63.516	0.00	0.00
ATOM	4727	N	ALA	X	314	31.048	46.597	61.794	0.00	0.00
ATOM	4728	H	ALA	X	314	31.779	46.640	61.099	0.00	0.00
ATOM	4729	CA	ALA	X	314	30.173	47.764	62.031	0.00	0.00
ATOM	4730	HA	ALA	X	314	29.745	47.624	63.024	0.00	0.00
ATOM	4731	CB	ALA	X	314	31.055	49.038	61.985	0.00	0.00
ATOM	4732	HB1	ALA	X	314	31.430	49.218	60.977	0.00	0.00
ATOM	4733	HB2	ALA	X	314	31.942	48.896	62.603	0.00	0.00
ATOM	4734	HB3	ALA	X	314	30.464	49.869	62.370	0.00	0.00
ATOM	4735	C	ALA	X	314	28.980	47.808	61.129	0.00	0.00
ATOM	4736	O	ALA	X	314	28.011	48.492	61.507	0.00	0.00
ATOM	4737	N	GLY	X	315	28.875	46.918	60.116	0.00	0.00
ATOM	4738	H	GLY	X	315	29.705	46.355	59.999	0.00	0.00
ATOM	4739	CA	GLY	X	315	27.867	46.831	59.199	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.378	47.797	59.323	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.203	46.756	58.165	0.00	0.00
ATOM	4742	C	GLY	X	315	26.786	45.812	59.473	0.00	0.00
ATOM	4743	O	GLY	X	315	26.533	45.406	60.626	0.00	0.00
ATOM	4744	N	ASP	X	316	26.026	45.503	58.441	0.00	0.00
ATOM	4745	H	ASP	X	316	26.296	45.782	57.509	0.00	0.00
ATOM	4746	CA	ASP	X	316	24.833	44.597	58.503	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.035	43.717	59.114	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.639	45.444	59.035	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.848	45.711	60.071	0.00	0.00
ATOM	4750	HB3	ASP	X	316	23.499	46.370	58.476	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.286	44.788	58.887	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.207	43.546	58.770	0.00	0.00
ATOM	4753	OD2	ASP	X	316	21.245	45.505	58.897	0.00	0.00
ATOM	4754	C	ASP	X	316	24.644	44.273	56.997	0.00	0.00
ATOM	4755	O	ASP	X	316	24.626	45.120	56.114	0.00	0.00
ATOM	4756	N	PHE	X	317	24.329	42.936	56.737	0.00	0.00
ATOM	4757	H	PHE	X	317	24.331	42.260	57.488	0.00	0.00
ATOM	4758	CA	PHE	X	317	24.141	42.429	55.393	0.00	0.00
ATOM	4759	HA	PHE	X	317	24.005	43.271	54.713	0.00	0.00
ATOM	4760	CB	PHE	X	317	25.434	41.731	54.974	0.00	0.00
ATOM	4761	HB2	PHE	X	317	25.606	40.879	55.632	0.00	0.00
ATOM	4762	HB3	PHE	X	317	25.330	41.244	54.005	0.00	0.00
ATOM	4763	CG	PHE	X	317	26.572	42.710	54.876	0.00	0.00
ATOM	4764	CD1	PHE	X	317	26.557	43.752	53.878	0.00	0.00
ATOM	4765	HD1	PHE	X	317	25.856	43.665	53.062	0.00	0.00
ATOM	4766	CE1	PHE	X	317	27.482	44.819	53.943	0.00	0.00
ATOM	4767	HE1	PHE	X	317	27.548	45.651	53.258	0.00	0.00
ATOM	4768	CZ	PHE	X	317	28.389	44.887	55.077	0.00	0.00
ATOM	4769	HZ	PHE	X	317	29.022	45.757	55.170	0.00	0.00
ATOM	4770	CE2	PHE	X	317	28.474	43.875	56.024	0.00	0.00
ATOM	4771	HE2	PHE	X	317	29.079	43.944	56.916	0.00	0.00
ATOM	4772	CD2	PHE	X	317	27.531	42.774	55.913	0.00	0.00
ATOM	4773	HD2	PHE	X	317	27.593	42.024	56.687	0.00	0.00
ATOM	4774	C	PHE	X	317	22.955	41.467	55.367	0.00	0.00
ATOM	4775	O	PHE	X	317	22.952	40.530	54.567	0.00	0.00
ATOM	4776	N	HIE	X	318	21.989	41.645	56.303	0.00	0.00
ATOM	4777	H	HIE	X	318	22.136	42.412	56.943	0.00	0.00
ATOM	4778	CA	HIE	X	318	20.956	40.656	56.491	0.00	0.00
ATOM	4779	HA	HIE	X	318	21.477	39.737	56.761	0.00	0.00
ATOM	4780	CB	HIE	X	318	20.054	41.147	57.667	0.00	0.00
ATOM	4781	HB2	HIE	X	318	20.578	41.316	58.608	0.00	0.00

ATOM	4782	HB3	HIE	X	318	19.603	42.078	57.323	0.00	0.00
ATOM	4783	CG	HIE	X	318	18.872	40.241	57.881	0.00	0.00
ATOM	4784	ND1	HIE	X	318	19.063	38.881	58.106	0.00	0.00
ATOM	4785	CE1	HIE	X	318	17.824	38.279	58.048	0.00	0.00
ATOM	4786	HE1	HIE	X	318	17.617	37.221	58.119	0.00	0.00
ATOM	4787	NE2	HIE	X	318	16.947	39.177	57.731	0.00	0.00
ATOM	4788	HE2	HIE	X	318	15.971	38.988	57.557	0.00	0.00
ATOM	4789	CD2	HIE	X	318	17.567	40.413	57.522	0.00	0.00
ATOM	4790	HD2	HIE	X	318	17.126	41.350	57.214	0.00	0.00
ATOM	4791	C	HIE	X	318	20.039	40.381	55.265	0.00	0.00
ATOM	4792	O	HIE	X	318	19.540	41.346	54.649	0.00	0.00
ATOM	4793	N	GLY	X	319	19.931	39.088	54.995	0.00	0.00
ATOM	4794	H	GLY	X	319	20.446	38.411	55.539	0.00	0.00
ATOM	4795	CA	GLY	X	319	19.150	38.463	53.944	0.00	0.00
ATOM	4796	HA2	GLY	X	319	19.310	37.396	54.100	0.00	0.00
ATOM	4797	HA3	GLY	X	319	18.114	38.787	54.046	0.00	0.00
ATOM	4798	C	GLY	X	319	19.738	38.597	52.555	0.00	0.00
ATOM	4799	O	GLY	X	319	19.077	38.194	51.609	0.00	0.00
ATOM	4800	N	LEU	X	320	20.933	39.166	52.397	0.00	0.00
ATOM	4801	H	LEU	X	320	21.502	39.537	53.144	0.00	0.00
ATOM	4802	CA	LEU	X	320	21.637	39.097	51.081	0.00	0.00
ATOM	4803	HA	LEU	X	320	20.958	39.537	50.350	0.00	0.00
ATOM	4804	CB	LEU	X	320	22.828	40.104	51.157	0.00	0.00
ATOM	4805	HB2	LEU	X	320	23.290	39.828	52.105	0.00	0.00
ATOM	4806	HB3	LEU	X	320	23.554	39.823	50.395	0.00	0.00
ATOM	4807	CG	LEU	X	320	22.470	41.566	51.163	0.00	0.00
ATOM	4808	HG	LEU	X	320	21.798	41.745	52.002	0.00	0.00
ATOM	4809	CD1	LEU	X	320	23.767	42.371	51.339	0.00	0.00
ATOM	4810	HD11	LEU	X	320	24.078	42.113	52.351	0.00	0.00
ATOM	4811	HD12	LEU	X	320	23.693	43.458	51.369	0.00	0.00
ATOM	4812	HD13	LEU	X	320	24.466	42.149	50.534	0.00	0.00
ATOM	4813	CD2	LEU	X	320	21.756	41.929	49.829	0.00	0.00
ATOM	4814	HD21	LEU	X	320	22.308	41.479	49.003	0.00	0.00
ATOM	4815	HD22	LEU	X	320	20.680	41.762	49.851	0.00	0.00
ATOM	4816	HD23	LEU	X	320	21.811	43.012	49.715	0.00	0.00
ATOM	4817	C	LEU	X	320	21.950	37.661	50.808	0.00	0.00
ATOM	4818	O	LEU	X	320	22.232	36.924	51.774	0.00	0.00
ATOM	4819	N	GLN	X	321	22.158	37.348	49.588	0.00	0.00
ATOM	4820	H	GLN	X	321	21.941	38.037	48.883	0.00	0.00
ATOM	4821	CA	GLN	X	321	22.954	36.205	49.185	0.00	0.00
ATOM	4822	HA	GLN	X	321	22.911	35.496	50.012	0.00	0.00
ATOM	4823	CB	GLN	X	321	22.279	35.510	47.942	0.00	0.00
ATOM	4824	HB2	GLN	X	321	22.293	36.091	47.020	0.00	0.00
ATOM	4825	HB3	GLN	X	321	22.802	34.606	47.630	0.00	0.00
ATOM	4826	CG	GLN	X	321	20.847	35.119	48.256	0.00	0.00
ATOM	4827	HG2	GLN	X	321	20.561	34.206	47.733	0.00	0.00
ATOM	4828	HG3	GLN	X	321	20.678	34.789	49.281	0.00	0.00
ATOM	4829	CD	GLN	X	321	19.845	36.159	47.833	0.00	0.00
ATOM	4830	OE1	GLN	X	321	19.632	36.378	46.683	0.00	0.00
ATOM	4831	NE2	GLN	X	321	19.082	36.778	48.714	0.00	0.00
ATOM	4832	HE21	GLN	X	321	18.352	37.263	48.211	0.00	0.00
ATOM	4833	HE22	GLN	X	321	18.878	36.472	49.654	0.00	0.00
ATOM	4834	C	GLN	X	321	24.338	36.674	48.821	0.00	0.00
ATOM	4835	O	GLN	X	321	24.543	37.676	48.092	0.00	0.00
ATOM	4836	N	VAL	X	322	25.437	36.020	49.226	0.00	0.00
ATOM	4837	H	VAL	X	322	25.304	35.236	49.849	0.00	0.00
ATOM	4838	CA	VAL	X	322	26.845	36.221	48.847	0.00	0.00
ATOM	4839	HA	VAL	X	322	26.839	36.900	47.994	0.00	0.00
ATOM	4840	CB	VAL	X	322	27.758	36.879	49.972	0.00	0.00
ATOM	4841	HB	VAL	X	322	27.805	36.187	50.812	0.00	0.00
ATOM	4842	CG1	VAL	X	322	29.141	37.021	49.431	0.00	0.00
ATOM	4843	HG11	VAL	X	322	29.582	36.038	49.265	0.00	0.00
ATOM	4844	HG12	VAL	X	322	29.110	37.597	48.506	0.00	0.00
ATOM	4845	HG13	VAL	X	322	29.739	37.575	50.153	0.00	0.00
ATOM	4846	CG2	VAL	X	322	27.106	38.190	50.434	0.00	0.00
ATOM	4847	HG21	VAL	X	322	27.742	38.659	51.184	0.00	0.00
ATOM	4848	HG22	VAL	X	322	26.106	38.128	50.862	0.00	0.00

ATOM	4849	HG23	VAL	X	322	27.159	38.850	49.568	0.00	0.00
ATOM	4850	C	VAL	X	322	27.431	34.875	48.353	0.00	0.00
ATOM	4851	O	VAL	X	322	27.181	33.815	48.924	0.00	0.00
ATOM	4852	N	LEU	X	323	28.152	34.883	47.200	0.00	0.00
ATOM	4853	H	LEU	X	323	28.135	35.737	46.662	0.00	0.00
ATOM	4854	CA	LEU	X	323	28.993	33.745	46.862	0.00	0.00
ATOM	4855	HA	LEU	X	323	28.897	32.882	47.520	0.00	0.00
ATOM	4856	CB	LEU	X	323	28.632	33.303	45.459	0.00	0.00
ATOM	4857	HB2	LEU	X	323	27.544	33.248	45.493	0.00	0.00
ATOM	4858	HB3	LEU	X	323	28.949	34.119	44.809	0.00	0.00
ATOM	4859	CG	LEU	X	323	29.217	32.020	44.810	0.00	0.00
ATOM	4860	HG	LEU	X	323	29.095	31.248	45.571	0.00	0.00
ATOM	4861	CD1	LEU	X	323	28.352	31.640	43.617	0.00	0.00
ATOM	4862	HD11	LEU	X	323	28.540	32.316	42.783	0.00	0.00
ATOM	4863	HD12	LEU	X	323	27.266	31.631	43.710	0.00	0.00
ATOM	4864	HD13	LEU	X	323	28.716	30.656	43.321	0.00	0.00
ATOM	4865	CD2	LEU	X	323	30.697	32.129	44.271	0.00	0.00
ATOM	4866	HD21	LEU	X	323	31.019	31.164	43.882	0.00	0.00
ATOM	4867	HD22	LEU	X	323	30.766	32.836	43.444	0.00	0.00
ATOM	4868	HD23	LEU	X	323	31.385	32.325	45.094	0.00	0.00
ATOM	4869	C	LEU	X	323	30.471	34.211	46.863	0.00	0.00
ATOM	4870	O	LEU	X	323	30.791	35.257	46.347	0.00	0.00
ATOM	4871	N	VAL	X	324	31.325	33.419	47.529	0.00	0.00
ATOM	4872	H	VAL	X	324	30.982	32.539	47.887	0.00	0.00
ATOM	4873	CA	VAL	X	324	32.782	33.712	47.720	0.00	0.00
ATOM	4874	HA	VAL	X	324	33.066	34.494	47.017	0.00	0.00
ATOM	4875	CB	VAL	X	324	33.192	34.172	49.153	0.00	0.00
ATOM	4876	HB	VAL	X	324	34.220	34.520	49.048	0.00	0.00
ATOM	4877	CG1	VAL	X	324	32.391	35.399	49.605	0.00	0.00
ATOM	4878	HG11	VAL	X	324	31.430	35.104	50.026	0.00	0.00
ATOM	4879	HG12	VAL	X	324	32.964	35.928	50.366	0.00	0.00
ATOM	4880	HG13	VAL	X	324	32.184	36.168	48.860	0.00	0.00
ATOM	4881	CG2	VAL	X	324	33.050	33.130	50.286	0.00	0.00
ATOM	4882	HG21	VAL	X	324	33.404	33.487	51.254	0.00	0.00
ATOM	4883	HG22	VAL	X	324	33.638	32.263	49.986	0.00	0.00
ATOM	4884	HG23	VAL	X	324	32.044	32.712	50.323	0.00	0.00
ATOM	4885	C	VAL	X	324	33.655	32.535	47.379	0.00	0.00
ATOM	4886	O	VAL	X	324	33.079	31.375	47.331	0.00	0.00
ATOM	4887	N	GLY	X	325	34.999	32.686	47.163	0.00	0.00
ATOM	4888	H	GLY	X	325	35.422	33.603	47.146	0.00	0.00
ATOM	4889	CA	GLY	X	325	35.901	31.507	47.054	0.00	0.00
ATOM	4890	HA2	GLY	X	325	36.040	31.185	48.087	0.00	0.00
ATOM	4891	HA3	GLY	X	325	35.365	30.712	46.535	0.00	0.00
ATOM	4892	C	GLY	X	325	37.213	31.704	46.371	0.00	0.00
ATOM	4893	O	GLY	X	325	37.404	32.768	45.780	0.00	0.00
ATOM	4894	N	VAL	X	326	38.061	30.677	46.400	0.00	0.00
ATOM	4895	H	VAL	X	326	37.648	29.777	46.604	0.00	0.00
ATOM	4896	CA	VAL	X	326	39.483	30.839	46.028	0.00	0.00
ATOM	4897	HA	VAL	X	326	39.637	31.651	45.317	0.00	0.00
ATOM	4898	CB	VAL	X	326	40.367	30.965	47.278	0.00	0.00
ATOM	4899	HB	VAL	X	326	41.439	30.912	47.090	0.00	0.00
ATOM	4900	CG1	VAL	X	326	40.227	32.386	47.845	0.00	0.00
ATOM	4901	HG11	VAL	X	326	40.774	33.079	47.205	0.00	0.00
ATOM	4902	HG12	VAL	X	326	39.177	32.639	47.987	0.00	0.00
ATOM	4903	HG13	VAL	X	326	40.699	32.437	48.827	0.00	0.00
ATOM	4904	CG2	VAL	X	326	40.123	29.967	48.455	0.00	0.00
ATOM	4905	HG21	VAL	X	326	41.029	30.060	49.054	0.00	0.00
ATOM	4906	HG22	VAL	X	326	39.932	28.937	48.151	0.00	0.00
ATOM	4907	HG23	VAL	X	326	39.314	30.387	49.053	0.00	0.00
ATOM	4908	C	VAL	X	326	39.949	29.629	45.240	0.00	0.00
ATOM	4909	O	VAL	X	326	39.302	28.597	45.216	0.00	0.00
ATOM	4910	N	VAL	X	327	41.134	29.788	44.602	0.00	0.00
ATOM	4911	H	VAL	X	327	41.494	30.725	44.488	0.00	0.00
ATOM	4912	CA	VAL	X	327	41.782	28.613	43.965	0.00	0.00
ATOM	4913	HA	VAL	X	327	40.956	27.916	43.821	0.00	0.00
ATOM	4914	CB	VAL	X	327	42.395	28.986	42.571	0.00	0.00
ATOM	4915	HB	VAL	X	327	42.726	28.034	42.155	0.00	0.00

ATOM	4916	CG1	VAL	X	327	41.340	29.636	41.708	0.00	0.00
ATOM	4917	HG11	VAL	X	327	41.616	29.588	40.654	0.00	0.00
ATOM	4918	HG12	VAL	X	327	40.426	29.056	41.837	0.00	0.00
ATOM	4919	HG13	VAL	X	327	41.099	30.648	42.033	0.00	0.00
ATOM	4920	CG2	VAL	X	327	43.629	29.888	42.742	0.00	0.00
ATOM	4921	HG21	VAL	X	327	44.256	29.721	41.866	0.00	0.00
ATOM	4922	HG22	VAL	X	327	44.125	29.715	43.697	0.00	0.00
ATOM	4923	HG23	VAL	X	327	43.247	30.909	42.747	0.00	0.00
ATOM	4924	C	VAL	X	327	42.821	27.994	44.895	0.00	0.00
ATOM	4925	O	VAL	X	327	42.962	28.294	46.064	0.00	0.00
ATOM	4926	N	LYS	X	328	43.565	26.979	44.421	0.00	0.00
ATOM	4927	H	LYS	X	328	43.509	26.835	43.423	0.00	0.00
ATOM	4928	CA	LYS	X	328	44.387	26.133	45.354	0.00	0.00
ATOM	4929	HA	LYS	X	328	43.834	25.980	46.281	0.00	0.00
ATOM	4930	CB	LYS	X	328	44.607	24.722	44.739	0.00	0.00
ATOM	4931	HB2	LYS	X	328	43.597	24.334	44.609	0.00	0.00
ATOM	4932	HB3	LYS	X	328	45.097	24.980	43.800	0.00	0.00
ATOM	4933	CG	LYS	X	328	45.446	23.825	45.559	0.00	0.00
ATOM	4934	HG2	LYS	X	328	46.419	24.316	45.578	0.00	0.00
ATOM	4935	HG3	LYS	X	328	45.273	23.949	46.628	0.00	0.00
ATOM	4936	CD	LYS	X	328	45.572	22.300	45.144	0.00	0.00
ATOM	4937	HD2	LYS	X	328	46.247	21.795	45.835	0.00	0.00
ATOM	4938	HD3	LYS	X	328	44.616	21.776	45.121	0.00	0.00
ATOM	4939	CE	LYS	X	328	46.207	22.214	43.706	0.00	0.00
ATOM	4940	HE2	LYS	X	328	46.319	21.161	43.449	0.00	0.00
ATOM	4941	HE3	LYS	X	328	45.504	22.724	43.047	0.00	0.00
ATOM	4942	NZ	LYS	X	328	47.623	22.645	43.691	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	47.695	23.649	43.766	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	48.229	22.118	44.304	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	48.006	22.304	42.821	0.00	0.00
ATOM	4946	C	LYS	X	328	45.715	26.858	45.711	0.00	0.00
ATOM	4947	O	LYS	X	328	46.174	26.711	46.848	0.00	0.00
ATOM	4948	N	ASP	X	329	46.276	27.729	44.875	0.00	0.00
ATOM	4949	H	ASP	X	329	45.869	27.837	43.956	0.00	0.00
ATOM	4950	CA	ASP	X	329	47.581	28.313	45.122	0.00	0.00
ATOM	4951	HA	ASP	X	329	47.842	28.185	46.173	0.00	0.00
ATOM	4952	CB	ASP	X	329	48.696	27.582	44.255	0.00	0.00
ATOM	4953	HB2	ASP	X	329	48.476	27.792	43.208	0.00	0.00
ATOM	4954	HB3	ASP	X	329	49.639	27.998	44.609	0.00	0.00
ATOM	4955	CG	ASP	X	329	48.689	26.058	44.510	0.00	0.00
ATOM	4956	OD1	ASP	X	329	49.502	25.512	45.291	0.00	0.00
ATOM	4957	OD2	ASP	X	329	47.948	25.382	43.769	0.00	0.00
ATOM	4958	C	ASP	X	329	47.448	29.832	44.986	0.00	0.00
ATOM	4959	O	ASP	X	329	48.082	30.421	44.070	0.00	0.00
ATOM	4960	N	GLU	X	330	46.555	30.467	45.825	0.00	0.00
ATOM	4961	H	GLU	X	330	46.088	29.867	46.490	0.00	0.00
ATOM	4962	CA	GLU	X	330	46.381	31.874	45.806	0.00	0.00
ATOM	4963	HA	GLU	X	330	46.073	32.165	44.803	0.00	0.00
ATOM	4964	CB	GLU	X	330	45.356	32.277	46.893	0.00	0.00
ATOM	4965	HB2	GLU	X	330	45.656	31.831	47.841	0.00	0.00
ATOM	4966	HB3	GLU	X	330	45.391	33.353	47.065	0.00	0.00
ATOM	4967	CG	GLU	X	330	43.957	31.835	46.502	0.00	0.00
ATOM	4968	HG2	GLU	X	330	44.014	30.761	46.328	0.00	0.00
ATOM	4969	HG3	GLU	X	330	43.376	31.967	47.415	0.00	0.00
ATOM	4970	CD	GLU	X	330	43.382	32.568	45.268	0.00	0.00
ATOM	4971	OE1	GLU	X	330	43.963	33.589	44.798	0.00	0.00
ATOM	4972	OE2	GLU	X	330	42.248	32.197	44.809	0.00	0.00
ATOM	4973	C	GLU	X	330	47.639	32.743	46.135	0.00	0.00
ATOM	4974	O	GLU	X	330	47.593	33.980	45.936	0.00	0.00
ATOM	4975	N	GLY	X	331	48.721	32.109	46.594	0.00	0.00
ATOM	4976	H	GLY	X	331	48.599	31.165	46.933	0.00	0.00
ATOM	4977	CA	GLY	X	331	49.974	32.734	46.865	0.00	0.00
ATOM	4978	HA2	GLY	X	331	49.794	33.798	47.018	0.00	0.00
ATOM	4979	HA3	GLY	X	331	50.445	32.225	47.706	0.00	0.00
ATOM	4980	C	GLY	X	331	51.164	32.571	45.822	0.00	0.00
ATOM	4981	O	GLY	X	331	51.998	33.452	45.671	0.00	0.00
ATOM	4982	N	SER	X	332	51.127	31.545	44.949	0.00	0.00

ATOM	4983	H	SER	X	332	50.220	31.126	44.800	0.00	0.00
ATOM	4984	CA	SER	X	332	52.202	31.121	44.029	0.00	0.00
ATOM	4985	HA	SER	X	332	53.139	31.025	44.577	0.00	0.00
ATOM	4986	CB	SER	X	332	51.880	29.680	43.449	0.00	0.00
ATOM	4987	HB2	SER	X	332	52.707	29.141	42.986	0.00	0.00
ATOM	4988	HB3	SER	X	332	51.552	29.022	44.254	0.00	0.00
ATOM	4989	OG	SER	X	332	50.825	29.701	42.536	0.00	0.00
ATOM	4990	HG	SER	X	332	50.682	28.760	42.405	0.00	0.00
ATOM	4991	C	SER	X	332	52.614	32.210	42.922	0.00	0.00
ATOM	4992	O	SER	X	332	53.754	32.305	42.472	0.00	0.00
ATOM	4993	N	TYR	X	333	51.553	32.994	42.602	0.00	0.00
ATOM	4994	H	TYR	X	333	50.658	32.708	42.971	0.00	0.00
ATOM	4995	CA	TYR	X	333	51.685	33.981	41.496	0.00	0.00
ATOM	4996	HA	TYR	X	333	51.944	33.416	40.600	0.00	0.00
ATOM	4997	CB	TYR	X	333	50.347	34.609	41.169	0.00	0.00
ATOM	4998	HB2	TYR	X	333	49.686	33.982	40.571	0.00	0.00
ATOM	4999	HB3	TYR	X	333	49.948	34.973	42.116	0.00	0.00
ATOM	5000	CG	TYR	X	333	50.470	35.862	40.274	0.00	0.00
ATOM	5001	CD1	TYR	X	333	50.521	35.721	38.911	0.00	0.00
ATOM	5002	HD1	TYR	X	333	50.692	34.705	38.587	0.00	0.00
ATOM	5003	CE1	TYR	X	333	50.622	36.772	38.059	0.00	0.00
ATOM	5004	HE1	TYR	X	333	50.662	36.569	36.999	0.00	0.00
ATOM	5005	CZ	TYR	X	333	50.580	38.095	38.499	0.00	0.00
ATOM	5006	OH	TYR	X	333	50.752	39.184	37.646	0.00	0.00
ATOM	5007	HH	TYR	X	333	50.932	38.849	36.764	0.00	0.00
ATOM	5008	CE2	TYR	X	333	50.609	38.292	39.916	0.00	0.00
ATOM	5009	HE2	TYR	X	333	50.623	39.315	40.262	0.00	0.00
ATOM	5010	CD2	TYR	X	333	50.483	37.168	40.790	0.00	0.00
ATOM	5011	HD2	TYR	X	333	50.496	37.274	41.864	0.00	0.00
ATOM	5012	C	TYR	X	333	52.668	35.069	41.959	0.00	0.00
ATOM	5013	O	TYR	X	333	53.464	35.487	41.120	0.00	0.00
ATOM	5014	N	PHE	X	334	52.679	35.540	43.200	0.00	0.00
ATOM	5015	H	PHE	X	334	52.132	35.204	43.980	0.00	0.00
ATOM	5016	CA	PHE	X	334	53.513	36.784	43.511	0.00	0.00
ATOM	5017	HA	PHE	X	334	53.556	37.407	42.617	0.00	0.00
ATOM	5018	CB	PHE	X	334	52.898	37.478	44.731	0.00	0.00
ATOM	5019	HB2	PHE	X	334	53.080	36.939	45.661	0.00	0.00
ATOM	5020	HB3	PHE	X	334	53.405	38.427	44.906	0.00	0.00
ATOM	5021	CG	PHE	X	334	51.372	37.809	44.570	0.00	0.00
ATOM	5022	CD1	PHE	X	334	50.422	36.777	44.689	0.00	0.00
ATOM	5023	HD1	PHE	X	334	50.703	35.779	44.989	0.00	0.00
ATOM	5024	CE1	PHE	X	334	49.042	37.078	44.513	0.00	0.00
ATOM	5025	HE1	PHE	X	334	48.338	36.265	44.619	0.00	0.00
ATOM	5026	CZ	PHE	X	334	48.691	38.330	43.989	0.00	0.00
ATOM	5027	HZ	PHE	X	334	47.685	38.501	43.635	0.00	0.00
ATOM	5028	CE2	PHE	X	334	49.620	39.392	43.864	0.00	0.00
ATOM	5029	HE2	PHE	X	334	49.321	40.324	43.410	0.00	0.00
ATOM	5030	CD2	PHE	X	334	50.949	39.152	44.171	0.00	0.00
ATOM	5031	HD2	PHE	X	334	51.717	39.908	44.106	0.00	0.00
ATOM	5032	C	PHE	X	334	54.959	36.382	43.803	0.00	0.00
ATOM	5033	O	PHE	X	334	55.835	37.209	43.630	0.00	0.00
ATOM	5034	N	LEU	X	335	55.266	35.100	44.137	0.00	0.00
ATOM	5035	H	LEU	X	335	54.516	34.439	44.280	0.00	0.00
ATOM	5036	CA	LEU	X	335	56.644	34.613	44.260	0.00	0.00
ATOM	5037	HA	LEU	X	335	57.154	35.307	44.929	0.00	0.00
ATOM	5038	CB	LEU	X	335	56.676	33.217	44.921	0.00	0.00
ATOM	5039	HB2	LEU	X	335	56.549	32.486	44.123	0.00	0.00
ATOM	5040	HB3	LEU	X	335	57.653	33.138	45.397	0.00	0.00
ATOM	5041	CG	LEU	X	335	55.630	32.976	46.011	0.00	0.00
ATOM	5042	HG	LEU	X	335	54.626	33.228	45.668	0.00	0.00
ATOM	5043	CD1	LEU	X	335	55.644	31.500	46.471	0.00	0.00
ATOM	5044	HD11	LEU	X	335	55.830	30.825	45.636	0.00	0.00
ATOM	5045	HD12	LEU	X	335	54.703	31.329	46.994	0.00	0.00
ATOM	5046	HD13	LEU	X	335	56.528	31.284	47.071	0.00	0.00
ATOM	5047	CD2	LEU	X	335	55.914	33.899	47.212	0.00	0.00
ATOM	5048	HD21	LEU	X	335	56.918	33.668	47.568	0.00	0.00
ATOM	5049	HD22	LEU	X	335	55.819	34.919	46.839	0.00	0.00

ATOM	5050	HD23	LEU	X	335	55.212	33.825	48.042	0.00	0.00
ATOM	5051	C	LEU	X	335	57.511	34.674	43.052	0.00	0.00
ATOM	5052	O	LEU	X	335	58.558	35.355	42.978	0.00	0.00
ATOM	5053	N	VAL	X	336	56.994	34.178	41.925	0.00	0.00
ATOM	5054	H	VAL	X	336	56.014	33.937	41.906	0.00	0.00
ATOM	5055	CA	VAL	X	336	57.676	34.293	40.691	0.00	0.00
ATOM	5056	HA	VAL	X	336	58.627	33.811	40.922	0.00	0.00
ATOM	5057	CB	VAL	X	336	56.935	33.604	39.529	0.00	0.00
ATOM	5058	HB	VAL	X	336	57.597	33.838	38.695	0.00	0.00
ATOM	5059	CG1	VAL	X	336	57.139	32.079	39.819	0.00	0.00
ATOM	5060	HG11	VAL	X	336	56.788	31.557	38.929	0.00	0.00
ATOM	5061	HG12	VAL	X	336	58.164	31.749	39.987	0.00	0.00
ATOM	5062	HG13	VAL	X	336	56.610	31.668	40.679	0.00	0.00
ATOM	5063	CG2	VAL	X	336	55.504	34.020	39.051	0.00	0.00
ATOM	5064	HG21	VAL	X	336	54.725	33.727	39.755	0.00	0.00
ATOM	5065	HG22	VAL	X	336	55.199	33.553	38.114	0.00	0.00
ATOM	5066	HG23	VAL	X	336	55.452	35.104	38.953	0.00	0.00
ATOM	5067	C	VAL	X	336	58.022	35.733	40.182	0.00	0.00
ATOM	5068	O	VAL	X	336	58.813	35.905	39.311	0.00	0.00
ATOM	5069	N	TYR	X	337	57.245	36.691	40.651	0.00	0.00
ATOM	5070	H	TYR	X	337	56.513	36.474	41.312	0.00	0.00
ATOM	5071	CA	TYR	X	337	57.375	38.144	40.384	0.00	0.00
ATOM	5072	HA	TYR	X	337	57.828	38.434	39.436	0.00	0.00
ATOM	5073	CB	TYR	X	337	55.953	38.704	40.529	0.00	0.00
ATOM	5074	HB2	TYR	X	337	55.294	37.937	40.936	0.00	0.00
ATOM	5075	HB3	TYR	X	337	55.796	39.576	41.164	0.00	0.00
ATOM	5076	CG	TYR	X	337	55.442	39.036	39.172	0.00	0.00
ATOM	5077	CD1	TYR	X	337	56.010	40.131	38.557	0.00	0.00
ATOM	5078	HD1	TYR	X	337	56.754	40.731	39.060	0.00	0.00
ATOM	5079	CE1	TYR	X	337	55.802	40.427	37.227	0.00	0.00
ATOM	5080	HE1	TYR	X	337	56.223	41.264	36.689	0.00	0.00
ATOM	5081	CZ	TYR	X	337	54.980	39.509	36.506	0.00	0.00
ATOM	5082	OH	TYR	X	337	54.606	39.752	35.191	0.00	0.00
ATOM	5083	HH	TYR	X	337	54.859	40.659	35.001	0.00	0.00
ATOM	5084	CE2	TYR	X	337	54.333	38.442	37.147	0.00	0.00
ATOM	5085	HE2	TYR	X	337	53.637	37.847	36.574	0.00	0.00
ATOM	5086	CD2	TYR	X	337	54.463	38.295	38.523	0.00	0.00
ATOM	5087	HD2	TYR	X	337	54.092	37.379	38.958	0.00	0.00
ATOM	5088	C	TYR	X	337	58.316	38.879	41.384	0.00	0.00
ATOM	5089	O	TYR	X	337	59.075	39.691	40.880	0.00	0.00
ATOM	5090	N	GLY	X	338	58.462	38.414	42.638	0.00	0.00
ATOM	5091	H	GLY	X	338	57.694	37.786	42.827	0.00	0.00
ATOM	5092	CA	GLY	X	338	58.973	39.211	43.774	0.00	0.00
ATOM	5093	HA2	GLY	X	338	59.437	40.157	43.496	0.00	0.00
ATOM	5094	HA3	GLY	X	338	58.154	39.254	44.492	0.00	0.00
ATOM	5095	C	GLY	X	338	59.972	38.532	44.691	0.00	0.00
ATOM	5096	O	GLY	X	338	60.950	39.196	45.078	0.00	0.00
ATOM	5097	N	ALA	X	339	59.820	37.273	45.116	0.00	0.00
ATOM	5098	H	ALA	X	339	59.075	36.724	44.713	0.00	0.00
ATOM	5099	CA	ALA	X	339	60.586	36.567	46.151	0.00	0.00
ATOM	5100	HA	ALA	X	339	60.559	37.221	47.022	0.00	0.00
ATOM	5101	CB	ALA	X	339	59.764	35.341	46.583	0.00	0.00
ATOM	5102	HB1	ALA	X	339	60.300	34.795	47.360	0.00	0.00
ATOM	5103	HB2	ALA	X	339	59.575	34.615	45.792	0.00	0.00
ATOM	5104	HB3	ALA	X	339	58.831	35.682	47.032	0.00	0.00
ATOM	5105	C	ALA	X	339	61.994	36.133	45.732	0.00	0.00
ATOM	5106	O	ALA	X	339	62.083	35.592	44.587	0.00	0.00
ATOM	5107	N	PRO	X	340	63.001	36.129	46.648	0.00	0.00
ATOM	5108	CD	PRO	X	340	63.002	36.812	47.944	0.00	0.00
ATOM	5109	HD2	PRO	X	340	62.531	36.179	48.696	0.00	0.00
ATOM	5110	HD3	PRO	X	340	62.459	37.757	47.941	0.00	0.00
ATOM	5111	CG	PRO	X	340	64.472	37.039	48.351	0.00	0.00
ATOM	5112	HG2	PRO	X	340	64.723	37.182	49.402	0.00	0.00
ATOM	5113	HG3	PRO	X	340	64.734	37.926	47.774	0.00	0.00
ATOM	5114	CB	PRO	X	340	65.161	35.831	47.677	0.00	0.00
ATOM	5115	HB2	PRO	X	340	65.092	35.039	48.423	0.00	0.00
ATOM	5116	HB3	PRO	X	340	66.227	36.026	47.558	0.00	0.00

ATOM	5117	CA	PRO	X	340	64.375	35.624	46.347	0.00	0.00
ATOM	5118	HA	PRO	X	340	64.757	36.211	45.512	0.00	0.00
ATOM	5119	C	PRO	X	340	64.390	34.158	45.914	0.00	0.00
ATOM	5120	O	PRO	X	340	63.784	33.323	46.532	0.00	0.00
ATOM	5121	N	GLY	X	341	65.150	33.872	44.831	0.00	0.00
ATOM	5122	H	GLY	X	341	65.715	34.588	44.396	0.00	0.00
ATOM	5123	CA	GLY	X	341	65.346	32.549	44.342	0.00	0.00
ATOM	5124	HA2	GLY	X	341	66.281	32.541	43.781	0.00	0.00
ATOM	5125	HA3	GLY	X	341	65.417	31.801	45.131	0.00	0.00
ATOM	5126	C	GLY	X	341	64.286	32.045	43.346	0.00	0.00
ATOM	5127	O	GLY	X	341	64.602	31.245	42.502	0.00	0.00
ATOM	5128	N	PHE	X	342	63.035	32.550	43.476	0.00	0.00
ATOM	5129	H	PHE	X	342	62.900	33.289	44.150	0.00	0.00
ATOM	5130	CA	PHE	X	342	61.984	32.223	42.488	0.00	0.00
ATOM	5131	HA	PHE	X	342	62.020	31.152	42.287	0.00	0.00
ATOM	5132	CB	PHE	X	342	60.580	32.476	43.028	0.00	0.00
ATOM	5133	HB2	PHE	X	342	60.535	33.508	43.376	0.00	0.00
ATOM	5134	HB3	PHE	X	342	59.939	32.341	42.157	0.00	0.00
ATOM	5135	CG	PHE	X	342	60.266	31.525	44.166	0.00	0.00
ATOM	5136	CD1	PHE	X	342	59.352	30.495	43.952	0.00	0.00
ATOM	5137	HD1	PHE	X	342	58.976	30.336	42.952	0.00	0.00
ATOM	5138	CE1	PHE	X	342	58.981	29.632	45.038	0.00	0.00
ATOM	5139	HE1	PHE	X	342	58.117	29.015	44.837	0.00	0.00
ATOM	5140	CZ	PHE	X	342	59.496	29.811	46.296	0.00	0.00
ATOM	5141	HZ	PHE	X	342	59.066	29.124	47.010	0.00	0.00
ATOM	5142	CE2	PHE	X	342	60.478	30.776	46.549	0.00	0.00
ATOM	5143	HE2	PHE	X	342	60.916	30.885	47.529	0.00	0.00
ATOM	5144	CD2	PHE	X	342	60.790	31.672	45.481	0.00	0.00
ATOM	5145	HD2	PHE	X	342	61.475	32.474	45.712	0.00	0.00
ATOM	5146	C	PHE	X	342	62.188	32.835	41.106	0.00	0.00
ATOM	5147	O	PHE	X	342	62.755	33.935	41.058	0.00	0.00
ATOM	5148	N	SER	X	343	61.609	32.312	40.018	0.00	0.00
ATOM	5149	H	SER	X	343	61.281	31.381	40.228	0.00	0.00
ATOM	5150	CA	SER	X	343	61.334	32.774	38.626	0.00	0.00
ATOM	5151	HA	SER	X	343	60.669	33.638	38.646	0.00	0.00
ATOM	5152	CB	SER	X	343	62.569	33.230	37.863	0.00	0.00
ATOM	5153	HB2	SER	X	343	62.955	34.189	38.209	0.00	0.00
ATOM	5154	HB3	SER	X	343	63.411	32.619	38.189	0.00	0.00
ATOM	5155	OG	SER	X	343	62.388	33.281	36.455	0.00	0.00
ATOM	5156	HG	SER	X	343	62.343	34.214	36.233	0.00	0.00
ATOM	5157	C	SER	X	343	60.558	31.712	37.920	0.00	0.00
ATOM	5158	O	SER	X	343	60.775	30.504	38.133	0.00	0.00
ATOM	5159	N	LYS	X	344	59.546	32.055	37.058	0.00	0.00
ATOM	5160	H	LYS	X	344	59.481	33.043	36.862	0.00	0.00
ATOM	5161	CA	LYS	X	344	58.926	31.094	36.173	0.00	0.00
ATOM	5162	HA	LYS	X	344	58.381	30.404	36.816	0.00	0.00
ATOM	5163	CB	LYS	X	344	57.814	31.828	35.341	0.00	0.00
ATOM	5164	HB2	LYS	X	344	57.148	31.030	35.012	0.00	0.00
ATOM	5165	HB3	LYS	X	344	57.226	32.442	36.023	0.00	0.00
ATOM	5166	CG	LYS	X	344	58.253	32.617	34.109	0.00	0.00
ATOM	5167	HG2	LYS	X	344	57.852	33.616	34.278	0.00	0.00
ATOM	5168	HG3	LYS	X	344	59.338	32.644	34.010	0.00	0.00
ATOM	5169	CD	LYS	X	344	57.578	32.154	32.852	0.00	0.00
ATOM	5170	HD2	LYS	X	344	57.594	31.070	32.740	0.00	0.00
ATOM	5171	HD3	LYS	X	344	56.525	32.409	32.975	0.00	0.00
ATOM	5172	CE	LYS	X	344	58.099	32.985	31.659	0.00	0.00
ATOM	5173	HE2	LYS	X	344	57.426	33.109	30.810	0.00	0.00
ATOM	5174	HE3	LYS	X	344	58.399	33.930	32.112	0.00	0.00
ATOM	5175	NZ	LYS	X	344	59.378	32.522	31.106	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	59.529	33.160	30.338	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	60.121	32.590	31.786	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	59.342	31.580	30.743	0.00	0.00
ATOM	5179	C	LYS	X	344	59.909	30.334	35.166	0.00	0.00
ATOM	5180	O	LYS	X	344	59.499	29.285	34.729	0.00	0.00
ATOM	5181	N	ASP	X	345	61.071	30.890	34.877	0.00	0.00
ATOM	5182	H	ASP	X	345	61.204	31.806	35.281	0.00	0.00
ATOM	5183	CA	ASP	X	345	62.162	30.229	34.119	0.00	0.00

ATOM	5184	HA	ASP	X	345	61.746	29.669	33.282	0.00	0.00
ATOM	5185	CB	ASP	X	345	63.072	31.362	33.566	0.00	0.00
ATOM	5186	HB2	ASP	X	345	63.444	32.053	34.322	0.00	0.00
ATOM	5187	HB3	ASP	X	345	63.978	30.949	33.122	0.00	0.00
ATOM	5188	CG	ASP	X	345	62.363	32.115	32.441	0.00	0.00
ATOM	5189	OD1	ASP	X	345	61.510	33.003	32.826	0.00	0.00
ATOM	5190	OD2	ASP	X	345	62.575	31.714	31.305	0.00	0.00
ATOM	5191	C	ASP	X	345	63.047	29.319	34.949	0.00	0.00
ATOM	5192	O	ASP	X	345	63.854	28.629	34.306	0.00	0.00
ATOM	5193	N	ASN	X	346	62.827	29.300	36.260	0.00	0.00
ATOM	5194	H	ASN	X	346	61.931	29.586	36.629	0.00	0.00
ATOM	5195	CA	ASN	X	346	63.693	28.678	37.233	0.00	0.00
ATOM	5196	HA	ASN	X	346	64.646	28.356	36.815	0.00	0.00
ATOM	5197	CB	ASN	X	346	64.008	29.787	38.255	0.00	0.00
ATOM	5198	HB2	ASN	X	346	64.260	30.739	37.788	0.00	0.00
ATOM	5199	HB3	ASN	X	346	63.145	29.847	38.919	0.00	0.00
ATOM	5200	CG	ASN	X	346	65.287	29.490	39.151	0.00	0.00
ATOM	5201	OD1	ASN	X	346	65.243	28.800	40.121	0.00	0.00
ATOM	5202	ND2	ASN	X	346	66.445	30.060	38.813	0.00	0.00
ATOM	5203	HD21	ASN	X	346	67.271	29.603	39.172	0.00	0.00
ATOM	5204	HD22	ASN	X	346	66.548	30.515	37.917	0.00	0.00
ATOM	5205	C	ASN	X	346	63.008	27.506	37.905	0.00	0.00
ATOM	5206	O	ASN	X	346	61.754	27.498	37.929	0.00	0.00
ATOM	5207	N	GLU	X	347	63.734	26.620	38.591	0.00	0.00
ATOM	5208	H	GLU	X	347	64.741	26.614	38.515	0.00	0.00
ATOM	5209	CA	GLU	X	347	63.168	25.573	39.398	0.00	0.00
ATOM	5210	HA	GLU	X	347	62.308	25.120	38.906	0.00	0.00
ATOM	5211	CB	GLU	X	347	64.105	24.370	39.605	0.00	0.00
ATOM	5212	HB2	GLU	X	347	65.021	24.869	39.920	0.00	0.00
ATOM	5213	HB3	GLU	X	347	63.743	23.763	40.435	0.00	0.00
ATOM	5214	CG	GLU	X	347	64.426	23.666	38.268	0.00	0.00
ATOM	5215	HG2	GLU	X	347	63.455	23.450	37.822	0.00	0.00
ATOM	5216	HG3	GLU	X	347	64.903	24.431	37.656	0.00	0.00
ATOM	5217	CD	GLU	X	347	65.354	22.404	38.422	0.00	0.00
ATOM	5218	OE1	GLU	X	347	64.917	21.239	38.581	0.00	0.00
ATOM	5219	OE2	GLU	X	347	66.566	22.534	38.366	0.00	0.00
ATOM	5220	C	GLU	X	347	62.740	26.062	40.817	0.00	0.00
ATOM	5221	O	GLU	X	347	61.857	25.453	41.422	0.00	0.00
ATOM	5222	N	SER	X	348	63.356	27.067	41.325	0.00	0.00
ATOM	5223	H	SER	X	348	63.974	27.681	40.813	0.00	0.00
ATOM	5224	CA	SER	X	348	63.030	27.676	42.651	0.00	0.00
ATOM	5225	HA	SER	X	348	63.739	28.478	42.855	0.00	0.00
ATOM	5226	CB	SER	X	348	61.732	28.490	42.620	0.00	0.00
ATOM	5227	HB2	SER	X	348	60.912	27.771	42.615	0.00	0.00
ATOM	5228	HB3	SER	X	348	61.675	29.212	43.435	0.00	0.00
ATOM	5229	OG	SER	X	348	61.601	29.026	41.280	0.00	0.00
ATOM	5230	HG	SER	X	348	61.539	28.292	40.665	0.00	0.00
ATOM	5231	C	SER	X	348	63.333	26.662	43.835	0.00	0.00
ATOM	5232	O	SER	X	348	62.589	26.772	44.776	0.00	0.00
ATOM	5233	N	LEU	X	349	64.371	25.792	43.680	0.00	0.00
ATOM	5234	H	LEU	X	349	64.824	25.742	42.778	0.00	0.00
ATOM	5235	CA	LEU	X	349	64.780	24.946	44.834	0.00	0.00
ATOM	5236	HA	LEU	X	349	63.876	24.531	45.280	0.00	0.00
ATOM	5237	CB	LEU	X	349	65.667	23.890	44.202	0.00	0.00
ATOM	5238	HB2	LEU	X	349	66.477	24.371	43.653	0.00	0.00
ATOM	5239	HB3	LEU	X	349	66.161	23.315	44.986	0.00	0.00
ATOM	5240	CG	LEU	X	349	64.940	22.875	43.282	0.00	0.00
ATOM	5241	HG	LEU	X	349	64.498	23.446	42.466	0.00	0.00
ATOM	5242	CD1	LEU	X	349	66.084	22.110	42.561	0.00	0.00
ATOM	5243	HD11	LEU	X	349	66.869	22.710	42.102	0.00	0.00
ATOM	5244	HD12	LEU	X	349	65.769	21.361	41.835	0.00	0.00
ATOM	5245	HD13	LEU	X	349	66.531	21.437	43.293	0.00	0.00
ATOM	5246	CD2	LEU	X	349	63.935	22.012	43.982	0.00	0.00
ATOM	5247	HD21	LEU	X	349	64.342	21.480	44.842	0.00	0.00
ATOM	5248	HD22	LEU	X	349	63.205	22.745	44.327	0.00	0.00
ATOM	5249	HD23	LEU	X	349	63.447	21.272	43.349	0.00	0.00
ATOM	5250	C	LEU	X	349	65.473	25.742	45.919	0.00	0.00

ATOM	5251	O	LEU	X	349	66.668	25.877	45.787	0.00	0.00
ATOM	5252	N	ILE	X	350	64.748	26.334	46.886	0.00	0.00
ATOM	5253	H	ILE	X	350	63.759	26.312	46.678	0.00	0.00
ATOM	5254	CA	ILE	X	350	65.370	27.232	47.941	0.00	0.00
ATOM	5255	HA	ILE	X	350	66.145	27.789	47.413	0.00	0.00
ATOM	5256	CB	ILE	X	350	64.334	28.281	48.473	0.00	0.00
ATOM	5257	HB	ILE	X	350	64.645	28.745	49.409	0.00	0.00
ATOM	5258	CG2	ILE	X	350	64.263	29.595	47.515	0.00	0.00
ATOM	5259	HG21	ILE	X	350	65.240	30.074	47.445	0.00	0.00
ATOM	5260	HG22	ILE	X	350	63.605	30.324	47.989	0.00	0.00
ATOM	5261	HG23	ILE	X	350	63.915	29.347	46.513	0.00	0.00
ATOM	5262	CG1	ILE	X	350	62.890	27.748	48.629	0.00	0.00
ATOM	5263	HG12	ILE	X	350	62.317	28.075	47.761	0.00	0.00
ATOM	5264	HG13	ILE	X	350	62.883	26.659	48.578	0.00	0.00
ATOM	5265	CD1	ILE	X	350	62.240	28.277	49.920	0.00	0.00
ATOM	5266	HD11	ILE	X	350	62.771	27.866	50.778	0.00	0.00
ATOM	5267	HD12	ILE	X	350	61.177	28.041	49.977	0.00	0.00
ATOM	5268	HD13	ILE	X	350	62.321	29.364	49.911	0.00	0.00
ATOM	5269	C	ILE	X	350	65.984	26.462	49.148	0.00	0.00
ATOM	5270	O	ILE	X	350	65.786	25.224	49.325	0.00	0.00
ATOM	5271	N	SER	X	351	66.857	27.147	49.980	0.00	0.00
ATOM	5272	H	SER	X	351	67.019	28.106	49.707	0.00	0.00
ATOM	5273	CA	SER	X	351	67.587	26.644	51.185	0.00	0.00
ATOM	5274	HA	SER	X	351	67.708	25.570	51.044	0.00	0.00
ATOM	5275	CB	SER	X	351	68.915	27.364	51.328	0.00	0.00
ATOM	5276	HB2	SER	X	351	69.563	26.761	51.964	0.00	0.00
ATOM	5277	HB3	SER	X	351	69.424	27.481	50.372	0.00	0.00
ATOM	5278	OG	SER	X	351	68.770	28.585	51.916	0.00	0.00
ATOM	5279	HG	SER	X	351	69.255	29.147	51.307	0.00	0.00
ATOM	5280	C	SER	X	351	66.628	26.898	52.433	0.00	0.00
ATOM	5281	O	SER	X	351	65.647	27.715	52.352	0.00	0.00
ATOM	5282	N	ARG	X	352	67.057	26.400	53.654	0.00	0.00
ATOM	5283	H	ARG	X	352	67.951	25.947	53.779	0.00	0.00
ATOM	5284	CA	ARG	X	352	66.416	26.888	54.926	0.00	0.00
ATOM	5285	HA	ARG	X	352	65.345	26.785	54.751	0.00	0.00
ATOM	5286	CB	ARG	X	352	66.682	25.965	56.154	0.00	0.00
ATOM	5287	HB2	ARG	X	352	66.643	24.926	55.828	0.00	0.00
ATOM	5288	HB3	ARG	X	352	67.706	26.122	56.492	0.00	0.00
ATOM	5289	CG	ARG	X	352	65.643	26.129	57.325	0.00	0.00
ATOM	5290	HG2	ARG	X	352	65.429	27.140	57.672	0.00	0.00
ATOM	5291	HG3	ARG	X	352	64.685	25.873	56.871	0.00	0.00
ATOM	5292	CD	ARG	X	352	65.895	25.106	58.492	0.00	0.00
ATOM	5293	HD2	ARG	X	352	65.927	24.074	58.144	0.00	0.00
ATOM	5294	HD3	ARG	X	352	66.894	25.242	58.907	0.00	0.00
ATOM	5295	NE	ARG	X	352	64.919	25.248	59.554	0.00	0.00
ATOM	5296	HE	ARG	X	352	65.299	25.611	60.416	0.00	0.00
ATOM	5297	CZ	ARG	X	352	63.640	25.368	59.354	0.00	0.00
ATOM	5298	NH1	ARG	X	352	63.018	24.701	58.428	0.00	0.00
ATOM	5299	HH11	ARG	X	352	63.585	24.255	57.721	0.00	0.00
ATOM	5300	HH12	ARG	X	352	62.035	24.808	58.225	0.00	0.00
ATOM	5301	NH2	ARG	X	352	62.835	25.990	60.177	0.00	0.00
ATOM	5302	HH21	ARG	X	352	63.227	26.145	61.095	0.00	0.00
ATOM	5303	HH22	ARG	X	352	61.857	26.200	60.035	0.00	0.00
ATOM	5304	C	ARG	X	352	66.589	28.306	55.306	0.00	0.00
ATOM	5305	O	ARG	X	352	65.616	28.925	55.836	0.00	0.00
ATOM	5306	N	ALA	X	353	67.770	28.853	55.010	0.00	0.00
ATOM	5307	H	ALA	X	353	68.478	28.447	54.415	0.00	0.00
ATOM	5308	CA	ALA	X	353	67.905	30.302	55.179	0.00	0.00
ATOM	5309	HA	ALA	X	353	67.353	30.491	56.099	0.00	0.00
ATOM	5310	CB	ALA	X	353	69.346	30.702	55.440	0.00	0.00
ATOM	5311	HB1	ALA	X	353	69.774	30.669	54.438	0.00	0.00
ATOM	5312	HB2	ALA	X	353	69.880	30.031	56.112	0.00	0.00
ATOM	5313	HB3	ALA	X	353	69.466	31.714	55.828	0.00	0.00
ATOM	5314	C	ALA	X	353	67.164	31.184	54.110	0.00	0.00
ATOM	5315	O	ALA	X	353	66.800	32.355	54.431	0.00	0.00
ATOM	5316	N	GLU	X	354	67.005	30.708	52.926	0.00	0.00
ATOM	5317	H	GLU	X	354	67.467	29.835	52.713	0.00	0.00

ATOM	5318	CA	GLU	X	354	66.260	31.399	51.843	0.00	0.00
ATOM	5319	HA	GLU	X	354	66.649	32.415	51.917	0.00	0.00
ATOM	5320	CB	GLU	X	354	66.548	30.770	50.493	0.00	0.00
ATOM	5321	HB2	GLU	X	354	66.560	29.683	50.570	0.00	0.00
ATOM	5322	HB3	GLU	X	354	65.796	30.851	49.708	0.00	0.00
ATOM	5323	CG	GLU	X	354	67.963	31.205	50.041	0.00	0.00
ATOM	5324	HG2	GLU	X	354	67.801	32.001	49.315	0.00	0.00
ATOM	5325	HG3	GLU	X	354	68.613	31.526	50.855	0.00	0.00
ATOM	5326	CD	GLU	X	354	68.723	30.240	49.157	0.00	0.00
ATOM	5327	OE1	GLU	X	354	68.111	29.314	48.625	0.00	0.00
ATOM	5328	OE2	GLU	X	354	69.989	30.389	49.156	0.00	0.00
ATOM	5329	C	GLU	X	354	64.746	31.333	52.111	0.00	0.00
ATOM	5330	O	GLU	X	354	64.084	32.282	51.739	0.00	0.00
ATOM	5331	N	PHE	X	355	64.227	30.312	52.858	0.00	0.00
ATOM	5332	H	PHE	X	355	64.895	29.567	52.995	0.00	0.00
ATOM	5333	CA	PHE	X	355	62.870	30.205	53.501	0.00	0.00
ATOM	5334	HA	PHE	X	355	62.088	30.395	52.766	0.00	0.00
ATOM	5335	CB	PHE	X	355	62.599	28.783	54.009	0.00	0.00
ATOM	5336	HB2	PHE	X	355	62.906	28.093	53.223	0.00	0.00
ATOM	5337	HB3	PHE	X	355	63.274	28.533	54.828	0.00	0.00
ATOM	5338	CG	PHE	X	355	61.154	28.482	54.538	0.00	0.00
ATOM	5339	CD1	PHE	X	355	60.004	28.736	53.718	0.00	0.00
ATOM	5340	HD1	PHE	X	355	60.250	28.977	52.694	0.00	0.00
ATOM	5341	CE1	PHE	X	355	58.730	28.670	54.284	0.00	0.00
ATOM	5342	HE1	PHE	X	355	57.888	28.960	53.672	0.00	0.00
ATOM	5343	CZ	PHE	X	355	58.567	28.294	55.636	0.00	0.00
ATOM	5344	HZ	PHE	X	355	57.592	28.139	56.074	0.00	0.00
ATOM	5345	CE2	PHE	X	355	59.638	27.946	56.351	0.00	0.00
ATOM	5346	HE2	PHE	X	355	59.500	27.514	57.331	0.00	0.00
ATOM	5347	CD2	PHE	X	355	60.986	28.170	55.905	0.00	0.00
ATOM	5348	HD2	PHE	X	355	61.784	27.951	56.599	0.00	0.00
ATOM	5349	C	PHE	X	355	62.699	31.310	54.637	0.00	0.00
ATOM	5350	O	PHE	X	355	61.623	31.929	54.740	0.00	0.00
ATOM	5351	N	LEU	X	356	63.795	31.651	55.304	0.00	0.00
ATOM	5352	H	LEU	X	356	64.599	31.058	55.154	0.00	0.00
ATOM	5353	CA	LEU	X	356	63.867	32.656	56.370	0.00	0.00
ATOM	5354	HA	LEU	X	356	62.995	32.446	56.990	0.00	0.00
ATOM	5355	CB	LEU	X	356	65.162	32.712	57.279	0.00	0.00
ATOM	5356	HB2	LEU	X	356	65.198	31.713	57.713	0.00	0.00
ATOM	5357	HB3	LEU	X	356	66.044	32.887	56.663	0.00	0.00
ATOM	5358	CG	LEU	X	356	65.131	33.624	58.534	0.00	0.00
ATOM	5359	HG	LEU	X	356	65.883	33.346	59.273	0.00	0.00
ATOM	5360	CD1	LEU	X	356	65.383	35.066	58.158	0.00	0.00
ATOM	5361	HD11	LEU	X	356	66.325	35.151	57.615	0.00	0.00
ATOM	5362	HD12	LEU	X	356	65.531	35.639	59.073	0.00	0.00
ATOM	5363	HD13	LEU	X	356	64.579	35.508	57.570	0.00	0.00
ATOM	5364	CD2	LEU	X	356	63.796	33.587	59.290	0.00	0.00
ATOM	5365	HD21	LEU	X	356	62.991	33.871	58.612	0.00	0.00
ATOM	5366	HD22	LEU	X	356	63.655	32.580	59.683	0.00	0.00
ATOM	5367	HD23	LEU	X	356	63.879	34.191	60.194	0.00	0.00
ATOM	5368	C	LEU	X	356	63.654	34.032	55.776	0.00	0.00
ATOM	5369	O	LEU	X	356	62.694	34.770	56.074	0.00	0.00
ATOM	5370	N	ALA	X	357	64.453	34.288	54.757	0.00	0.00
ATOM	5371	H	ALA	X	357	65.200	33.673	54.469	0.00	0.00
ATOM	5372	CA	ALA	X	357	64.236	35.548	53.931	0.00	0.00
ATOM	5373	HA	ALA	X	357	64.049	36.412	54.569	0.00	0.00
ATOM	5374	CB	ALA	X	357	65.528	35.832	53.109	0.00	0.00
ATOM	5375	HB1	ALA	X	357	65.917	34.850	52.837	0.00	0.00
ATOM	5376	HB2	ALA	X	357	66.213	36.442	53.698	0.00	0.00
ATOM	5377	HB3	ALA	X	357	65.389	36.504	52.263	0.00	0.00
ATOM	5378	C	ALA	X	357	62.867	35.592	53.314	0.00	0.00
ATOM	5379	O	ALA	X	357	62.122	36.577	53.367	0.00	0.00
ATOM	5380	N	GLY	X	358	62.477	34.407	52.751	0.00	0.00
ATOM	5381	H	GLY	X	358	63.208	33.711	52.775	0.00	0.00
ATOM	5382	CA	GLY	X	358	61.101	34.047	52.179	0.00	0.00
ATOM	5383	HA2	GLY	X	358	61.124	34.287	51.116	0.00	0.00
ATOM	5384	HA3	GLY	X	358	61.011	32.966	52.285	0.00	0.00

ATOM	5385	C	GLY	X	358	59.859	34.577	52.898	0.00	0.00
ATOM	5386	O	GLY	X	358	59.067	35.292	52.318	0.00	0.00
ATOM	5387	N	VAL	X	359	59.846	34.303	54.194	0.00	0.00
ATOM	5388	H	VAL	X	359	60.470	33.614	54.591	0.00	0.00
ATOM	5389	CA	VAL	X	359	58.853	34.820	55.165	0.00	0.00
ATOM	5390	HA	VAL	X	359	57.859	34.726	54.727	0.00	0.00
ATOM	5391	CB	VAL	X	359	58.808	34.057	56.477	0.00	0.00
ATOM	5392	HB	VAL	X	359	59.801	33.964	56.918	0.00	0.00
ATOM	5393	CG1	VAL	X	359	57.856	34.629	57.504	0.00	0.00
ATOM	5394	HG11	VAL	X	359	58.242	35.560	57.918	0.00	0.00
ATOM	5395	HG12	VAL	X	359	56.876	34.816	57.066	0.00	0.00
ATOM	5396	HG13	VAL	X	359	57.833	33.969	58.371	0.00	0.00
ATOM	5397	CG2	VAL	X	359	58.234	32.631	56.167	0.00	0.00
ATOM	5398	HG21	VAL	X	359	57.236	32.859	55.790	0.00	0.00
ATOM	5399	HG22	VAL	X	359	57.990	32.039	57.049	0.00	0.00
ATOM	5400	HG23	VAL	X	359	58.772	32.159	55.345	0.00	0.00
ATOM	5401	C	VAL	X	359	59.040	36.275	55.400	0.00	0.00
ATOM	5402	O	VAL	X	359	58.068	37.008	55.340	0.00	0.00
ATOM	5403	N	ARG	X	360	60.286	36.792	55.523	0.00	0.00
ATOM	5404	H	ARG	X	360	61.102	36.198	55.473	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.480	38.227	55.871	0.00	0.00
ATOM	5406	HA	ARG	X	360	59.895	38.458	56.762	0.00	0.00
ATOM	5407	CB	ARG	X	360	61.873	38.641	56.292	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.675	38.234	55.677	0.00	0.00
ATOM	5409	HB3	ARG	X	360	61.918	39.721	56.148	0.00	0.00
ATOM	5410	CG	ARG	X	360	62.144	38.326	57.780	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.287	38.486	58.434	0.00	0.00
ATOM	5412	HG3	ARG	X	360	62.466	37.286	57.812	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.260	39.306	58.349	0.00	0.00
ATOM	5414	HD2	ARG	X	360	62.919	40.319	58.136	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.402	39.212	59.426	0.00	0.00
ATOM	5416	NE	ARG	X	360	64.527	38.940	57.703	0.00	0.00
ATOM	5417	HE	ARG	X	360	64.588	39.058	56.702	0.00	0.00
ATOM	5418	CZ	ARG	X	360	65.651	38.382	58.130	0.00	0.00
ATOM	5419	NH1	ARG	X	360	65.930	38.029	59.397	0.00	0.00
ATOM	5420	HH11	ARG	X	360	65.302	38.088	60.186	0.00	0.00
ATOM	5421	HH12	ARG	X	360	66.823	37.612	59.617	0.00	0.00
ATOM	5422	NH2	ARG	X	360	66.635	38.201	57.254	0.00	0.00
ATOM	5423	HH21	ARG	X	360	66.465	38.322	56.266	0.00	0.00
ATOM	5424	HH22	ARG	X	360	67.532	37.850	57.557	0.00	0.00
ATOM	5425	C	ARG	X	360	60.032	39.104	54.691	0.00	0.00
ATOM	5426	O	ARG	X	360	59.369	40.109	54.883	0.00	0.00
ATOM	5427	N	VAL	X	361	60.219	38.665	53.462	0.00	0.00
ATOM	5428	H	VAL	X	361	60.781	37.844	53.288	0.00	0.00
ATOM	5429	CA	VAL	X	361	59.604	39.375	52.243	0.00	0.00
ATOM	5430	HA	VAL	X	361	59.617	40.439	52.479	0.00	0.00
ATOM	5431	CB	VAL	X	361	60.429	39.388	50.914	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.084	40.139	50.203	0.00	0.00
ATOM	5433	CG1	VAL	X	361	61.908	39.674	51.163	0.00	0.00
ATOM	5434	HG11	VAL	X	361	62.144	40.668	51.543	0.00	0.00
ATOM	5435	HG12	VAL	X	361	62.359	38.926	51.815	0.00	0.00
ATOM	5436	HG13	VAL	X	361	62.508	39.709	50.254	0.00	0.00
ATOM	5437	CG2	VAL	X	361	60.370	37.999	50.207	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.974	37.293	50.776	0.00	0.00
ATOM	5439	HG22	VAL	X	361	60.726	38.010	49.176	0.00	0.00
ATOM	5440	HG23	VAL	X	361	59.363	37.584	50.241	0.00	0.00
ATOM	5441	C	VAL	X	361	58.098	39.036	52.001	0.00	0.00
ATOM	5442	O	VAL	X	361	57.319	39.815	51.469	0.00	0.00
ATOM	5443	N	GLY	X	362	57.635	37.832	52.408	0.00	0.00
ATOM	5444	H	GLY	X	362	58.359	37.193	52.704	0.00	0.00
ATOM	5445	CA	GLY	X	362	56.340	37.325	52.127	0.00	0.00
ATOM	5446	HA2	GLY	X	362	56.098	37.360	51.064	0.00	0.00
ATOM	5447	HA3	GLY	X	362	56.300	36.265	52.379	0.00	0.00
ATOM	5448	C	GLY	X	362	55.299	37.852	52.959	0.00	0.00
ATOM	5449	O	GLY	X	362	54.178	38.063	52.510	0.00	0.00
ATOM	5450	N	VAL	X	363	55.513	37.995	54.327	0.00	0.00
ATOM	5451	H	VAL	X	363	56.418	37.700	54.664	0.00	0.00

ATOM	5452	CA	VAL	X	363	54.646	38.792	55.228	0.00	0.00
ATOM	5453	HA	VAL	X	363	53.614	38.855	54.882	0.00	0.00
ATOM	5454	CB	VAL	X	363	54.618	37.989	56.598	0.00	0.00
ATOM	5455	HB	VAL	X	363	55.666	37.896	56.885	0.00	0.00
ATOM	5456	CG1	VAL	X	363	53.848	38.589	57.820	0.00	0.00
ATOM	5457	HG11	VAL	X	363	52.839	38.919	57.572	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.714	37.932	58.679	0.00	0.00
ATOM	5459	HG13	VAL	X	363	54.420	39.448	58.171	0.00	0.00
ATOM	5460	CG2	VAL	X	363	54.213	36.556	56.372	0.00	0.00
ATOM	5461	HG21	VAL	X	363	54.967	35.992	55.822	0.00	0.00
ATOM	5462	HG22	VAL	X	363	53.280	36.453	55.819	0.00	0.00
ATOM	5463	HG23	VAL	X	363	54.087	36.114	57.360	0.00	0.00
ATOM	5464	C	VAL	X	363	55.331	40.183	55.478	0.00	0.00
ATOM	5465	O	VAL	X	363	56.282	40.216	56.294	0.00	0.00
ATOM	5466	N	PRO	X	364	54.936	41.283	54.803	0.00	0.00
ATOM	5467	CD	PRO	X	364	54.123	41.321	53.577	0.00	0.00
ATOM	5468	HD2	PRO	X	364	53.137	40.904	53.783	0.00	0.00
ATOM	5469	HD3	PRO	X	364	54.618	40.673	52.853	0.00	0.00
ATOM	5470	CG	PRO	X	364	54.176	42.736	52.960	0.00	0.00
ATOM	5471	HG2	PRO	X	364	53.196	43.007	52.567	0.00	0.00
ATOM	5472	HG3	PRO	X	364	54.957	42.763	52.200	0.00	0.00
ATOM	5473	CB	PRO	X	364	54.456	43.598	54.172	0.00	0.00
ATOM	5474	HB2	PRO	X	364	53.556	43.944	54.679	0.00	0.00
ATOM	5475	HB3	PRO	X	364	55.021	44.470	53.840	0.00	0.00
ATOM	5476	CA	PRO	X	364	55.358	42.740	54.988	0.00	0.00
ATOM	5477	HA	PRO	X	364	56.345	42.845	54.536	0.00	0.00
ATOM	5478	C	PRO	X	364	55.315	43.229	56.496	0.00	0.00
ATOM	5479	O	PRO	X	364	54.338	42.965	57.283	0.00	0.00
ATOM	5480	N	GLN	X	365	56.452	43.777	56.867	0.00	0.00
ATOM	5481	H	GLN	X	365	57.107	43.887	56.106	0.00	0.00
ATOM	5482	CA	GLN	X	365	56.908	44.473	58.099	0.00	0.00
ATOM	5483	HA	GLN	X	365	57.971	44.660	57.944	0.00	0.00
ATOM	5484	CB	GLN	X	365	56.110	45.783	58.164	0.00	0.00
ATOM	5485	HB2	GLN	X	365	56.238	46.267	57.196	0.00	0.00
ATOM	5486	HB3	GLN	X	365	55.056	45.565	58.332	0.00	0.00
ATOM	5487	CG	GLN	X	365	56.525	46.794	59.207	0.00	0.00
ATOM	5488	HG2	GLN	X	365	56.452	46.345	60.197	0.00	0.00
ATOM	5489	HG3	GLN	X	365	57.589	46.961	59.039	0.00	0.00
ATOM	5490	CD	GLN	X	365	55.782	48.133	59.190	0.00	0.00
ATOM	5491	OE1	GLN	X	365	54.638	48.213	58.828	0.00	0.00
ATOM	5492	NE2	GLN	X	365	56.315	49.239	59.685	0.00	0.00
ATOM	5493	HE21	GLN	X	365	55.907	50.137	59.471	0.00	0.00
ATOM	5494	HE22	GLN	X	365	57.230	49.233	60.113	0.00	0.00
ATOM	5495	C	GLN	X	365	56.872	43.567	59.350	0.00	0.00
ATOM	5496	O	GLN	X	365	56.811	44.037	60.490	0.00	0.00
ATOM	5497	N	VAL	X	366	56.989	42.227	59.227	0.00	0.00
ATOM	5498	H	VAL	X	366	56.927	41.827	58.301	0.00	0.00
ATOM	5499	CA	VAL	X	366	57.259	41.246	60.300	0.00	0.00
ATOM	5500	HA	VAL	X	366	56.443	41.301	61.020	0.00	0.00
ATOM	5501	CB	VAL	X	366	57.217	39.793	59.797	0.00	0.00
ATOM	5502	HB	VAL	X	366	56.405	39.735	59.071	0.00	0.00
ATOM	5503	CG1	VAL	X	366	58.416	39.356	58.954	0.00	0.00
ATOM	5504	HG11	VAL	X	366	58.105	38.528	58.318	0.00	0.00
ATOM	5505	HG12	VAL	X	366	58.608	40.181	58.268	0.00	0.00
ATOM	5506	HG13	VAL	X	366	59.226	39.182	59.663	0.00	0.00
ATOM	5507	CG2	VAL	X	366	56.912	38.837	60.941	0.00	0.00
ATOM	5508	HG21	VAL	X	366	56.049	39.182	61.511	0.00	0.00
ATOM	5509	HG22	VAL	X	366	57.754	38.688	61.616	0.00	0.00
ATOM	5510	HG23	VAL	X	366	56.700	37.839	60.559	0.00	0.00
ATOM	5511	C	VAL	X	366	58.512	41.547	61.175	0.00	0.00
ATOM	5512	O	VAL	X	366	59.519	42.021	60.652	0.00	0.00
ATOM	5513	N	SER	X	367	58.465	41.406	62.547	0.00	0.00
ATOM	5514	H	SER	X	367	57.541	41.376	62.954	0.00	0.00
ATOM	5515	CA	SER	X	367	59.682	41.532	63.377	0.00	0.00
ATOM	5516	HA	SER	X	367	60.333	42.345	63.058	0.00	0.00
ATOM	5517	CB	SER	X	367	59.395	41.949	64.862	0.00	0.00
ATOM	5518	HB2	SER	X	367	58.707	41.232	65.312	0.00	0.00

ATOM	5519	HB3	SER	X	367	60.334	41.882	65.411	0.00	0.00
ATOM	5520	OG	SER	X	367	58.940	43.286	64.976	0.00	0.00
ATOM	5521	HG	SER	X	367	58.681	43.456	65.885	0.00	0.00
ATOM	5522	C	SER	X	367	60.380	40.206	63.374	0.00	0.00
ATOM	5523	O	SER	X	367	59.803	39.195	62.983	0.00	0.00
ATOM	5524	N	ASP	X	368	61.567	40.181	63.983	0.00	0.00
ATOM	5525	H	ASP	X	368	61.887	41.020	64.447	0.00	0.00
ATOM	5526	CA	ASP	X	368	62.533	39.061	63.756	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.494	38.871	62.683	0.00	0.00
ATOM	5528	CB	ASP	X	368	63.951	39.330	64.311	0.00	0.00
ATOM	5529	HB2	ASP	X	368	64.290	40.366	64.268	0.00	0.00
ATOM	5530	HB3	ASP	X	368	63.822	39.256	65.391	0.00	0.00
ATOM	5531	CG	ASP	X	368	65.044	38.419	63.843	0.00	0.00
ATOM	5532	OD1	ASP	X	368	65.551	37.511	64.559	0.00	0.00
ATOM	5533	OD2	ASP	X	368	65.414	38.695	62.669	0.00	0.00
ATOM	5534	C	ASP	X	368	61.961	37.804	64.372	0.00	0.00
ATOM	5535	O	ASP	X	368	61.923	36.731	63.802	0.00	0.00
ATOM	5536	N	LEU	X	369	61.623	37.815	65.640	0.00	0.00
ATOM	5537	H	LEU	X	369	61.836	38.620	66.213	0.00	0.00
ATOM	5538	CA	LEU	X	369	61.005	36.706	66.383	0.00	0.00
ATOM	5539	HA	LEU	X	369	61.732	35.895	66.334	0.00	0.00
ATOM	5540	CB	LEU	X	369	60.835	37.105	67.864	0.00	0.00
ATOM	5541	HB2	LEU	X	369	61.801	37.203	68.361	0.00	0.00
ATOM	5542	HB3	LEU	X	369	60.326	38.069	67.859	0.00	0.00
ATOM	5543	CG	LEU	X	369	60.031	36.125	68.706	0.00	0.00
ATOM	5544	HG	LEU	X	369	59.098	35.900	68.190	0.00	0.00
ATOM	5545	CD1	LEU	X	369	60.839	34.859	68.969	0.00	0.00
ATOM	5546	HD11	LEU	X	369	61.713	35.244	69.494	0.00	0.00
ATOM	5547	HD12	LEU	X	369	61.107	34.369	68.032	0.00	0.00
ATOM	5548	HD13	LEU	X	369	60.443	34.180	69.724	0.00	0.00
ATOM	5549	CD2	LEU	X	369	59.737	36.848	70.044	0.00	0.00
ATOM	5550	HD21	LEU	X	369	59.225	37.807	69.963	0.00	0.00
ATOM	5551	HD22	LEU	X	369	59.055	36.214	70.609	0.00	0.00
ATOM	5552	HD23	LEU	X	369	60.736	36.983	70.459	0.00	0.00
ATOM	5553	C	LEU	X	369	59.711	36.198	65.724	0.00	0.00
ATOM	5554	O	LEU	X	369	59.409	34.999	65.709	0.00	0.00
ATOM	5555	N	ALA	X	370	58.934	37.142	65.151	0.00	0.00
ATOM	5556	H	ALA	X	370	59.273	38.065	64.921	0.00	0.00
ATOM	5557	CA	ALA	X	370	57.672	36.748	64.481	0.00	0.00
ATOM	5558	HA	ALA	X	370	57.088	35.987	64.999	0.00	0.00
ATOM	5559	CB	ALA	X	370	56.835	38.069	64.406	0.00	0.00
ATOM	5560	HB1	ALA	X	370	55.906	37.793	63.908	0.00	0.00
ATOM	5561	HB2	ALA	X	370	57.308	38.825	63.779	0.00	0.00
ATOM	5562	HB3	ALA	X	370	56.672	38.440	65.418	0.00	0.00
ATOM	5563	C	ALA	X	370	57.951	36.045	63.143	0.00	0.00
ATOM	5564	O	ALA	X	370	57.259	35.097	62.864	0.00	0.00
ATOM	5565	N	ALA	X	371	58.988	36.375	62.383	0.00	0.00
ATOM	5566	H	ALA	X	371	59.539	37.163	62.692	0.00	0.00
ATOM	5567	CA	ALA	X	371	59.407	35.624	61.231	0.00	0.00
ATOM	5568	HA	ALA	X	371	58.588	35.574	60.514	0.00	0.00
ATOM	5569	CB	ALA	X	371	60.637	36.386	60.673	0.00	0.00
ATOM	5570	HB1	ALA	X	371	60.500	37.461	60.790	0.00	0.00
ATOM	5571	HB2	ALA	X	371	60.643	36.123	59.615	0.00	0.00
ATOM	5572	HB3	ALA	X	371	61.542	35.969	61.116	0.00	0.00
ATOM	5573	C	ALA	X	371	59.890	34.215	61.584	0.00	0.00
ATOM	5574	O	ALA	X	371	59.466	33.246	60.955	0.00	0.00
ATOM	5575	N	GLU	X	372	60.617	34.086	62.723	0.00	0.00
ATOM	5576	H	GLU	X	372	60.790	34.931	63.248	0.00	0.00
ATOM	5577	CA	GLU	X	372	61.096	32.770	63.134	0.00	0.00
ATOM	5578	HA	GLU	X	372	61.372	32.174	62.264	0.00	0.00
ATOM	5579	CB	GLU	X	372	62.269	32.863	64.089	0.00	0.00
ATOM	5580	HB2	GLU	X	372	62.064	33.654	64.809	0.00	0.00
ATOM	5581	HB3	GLU	X	372	62.237	31.876	64.552	0.00	0.00
ATOM	5582	CG	GLU	X	372	63.537	33.223	63.369	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.622	32.721	62.406	0.00	0.00
ATOM	5584	HG3	GLU	X	372	63.443	34.261	63.048	0.00	0.00
ATOM	5585	CD	GLU	X	372	64.717	32.901	64.218	0.00	0.00

ATOM	5586	OE1	GLU	X	372	65.426	31.905	63.932	0.00	0.00
ATOM	5587	OE2	GLU	X	372	64.858	33.544	65.290	0.00	0.00
ATOM	5588	C	GLU	X	372	59.956	31.981	63.796	0.00	0.00
ATOM	5589	O	GLU	X	372	59.876	30.775	63.675	0.00	0.00
ATOM	5590	N	ALA	X	373	58.911	32.596	64.361	0.00	0.00
ATOM	5591	H	ALA	X	373	58.957	33.580	64.583	0.00	0.00
ATOM	5592	CA	ALA	X	373	57.740	31.933	64.864	0.00	0.00
ATOM	5593	HA	ALA	X	373	58.015	31.051	65.442	0.00	0.00
ATOM	5594	CB	ALA	X	373	56.811	32.842	65.751	0.00	0.00
ATOM	5595	HB1	ALA	X	373	56.670	33.796	65.241	0.00	0.00
ATOM	5596	HB2	ALA	X	373	57.374	33.099	66.647	0.00	0.00
ATOM	5597	HB3	ALA	X	373	55.841	32.435	66.037	0.00	0.00
ATOM	5598	C	ALA	X	373	56.868	31.484	63.622	0.00	0.00
ATOM	5599	O	ALA	X	373	56.397	30.353	63.562	0.00	0.00
ATOM	5600	N	VAL	X	374	56.762	32.348	62.542	0.00	0.00
ATOM	5601	H	VAL	X	374	57.224	33.225	62.740	0.00	0.00
ATOM	5602	CA	VAL	X	374	56.057	31.961	61.296	0.00	0.00
ATOM	5603	HA	VAL	X	374	55.083	31.565	61.587	0.00	0.00
ATOM	5604	CB	VAL	X	374	55.778	33.224	60.449	0.00	0.00
ATOM	5605	HB	VAL	X	374	56.713	33.782	60.396	0.00	0.00
ATOM	5606	CG1	VAL	X	374	55.191	32.942	59.026	0.00	0.00
ATOM	5607	HG11	VAL	X	374	54.168	32.576	59.112	0.00	0.00
ATOM	5608	HG12	VAL	X	374	55.059	33.875	58.478	0.00	0.00
ATOM	5609	HG13	VAL	X	374	55.697	32.176	58.439	0.00	0.00
ATOM	5610	CG2	VAL	X	374	54.815	34.138	61.150	0.00	0.00
ATOM	5611	HG21	VAL	X	374	53.901	33.603	61.410	0.00	0.00
ATOM	5612	HG22	VAL	X	374	54.716	35.066	60.587	0.00	0.00
ATOM	5613	HG23	VAL	X	374	55.261	34.396	62.111	0.00	0.00
ATOM	5614	C	VAL	X	374	56.779	30.884	60.563	0.00	0.00
ATOM	5615	O	VAL	X	374	56.158	29.907	60.173	0.00	0.00
ATOM	5616	N	VAL	X	375	58.066	30.999	60.390	0.00	0.00
ATOM	5617	H	VAL	X	375	58.494	31.908	60.493	0.00	0.00
ATOM	5618	CA	VAL	X	375	58.906	30.030	59.832	0.00	0.00
ATOM	5619	HA	VAL	X	375	58.528	29.856	58.824	0.00	0.00
ATOM	5620	CB	VAL	X	375	60.386	30.551	59.702	0.00	0.00
ATOM	5621	HB	VAL	X	375	60.515	31.053	60.660	0.00	0.00
ATOM	5622	CG1	VAL	X	375	61.590	29.586	59.416	0.00	0.00
ATOM	5623	HG11	VAL	X	375	61.637	28.764	60.130	0.00	0.00
ATOM	5624	HG12	VAL	X	375	61.495	29.135	58.428	0.00	0.00
ATOM	5625	HG13	VAL	X	375	62.539	30.121	59.416	0.00	0.00
ATOM	5626	CG2	VAL	X	375	60.561	31.640	58.639	0.00	0.00
ATOM	5627	HG21	VAL	X	375	59.733	32.349	58.632	0.00	0.00
ATOM	5628	HG22	VAL	X	375	60.476	31.176	57.657	0.00	0.00
ATOM	5629	HG23	VAL	X	375	61.485	32.201	58.780	0.00	0.00
ATOM	5630	C	VAL	X	375	58.753	28.725	60.594	0.00	0.00
ATOM	5631	O	VAL	X	375	58.691	27.721	59.916	0.00	0.00
ATOM	5632	N	LEU	X	376	58.870	28.635	61.921	0.00	0.00
ATOM	5633	H	LEU	X	376	58.857	29.487	62.464	0.00	0.00
ATOM	5634	CA	LEU	X	376	58.648	27.421	62.729	0.00	0.00
ATOM	5635	HA	LEU	X	376	59.405	26.692	62.442	0.00	0.00
ATOM	5636	CB	LEU	X	376	58.812	27.800	64.219	0.00	0.00
ATOM	5637	HB2	LEU	X	376	59.860	27.970	64.463	0.00	0.00
ATOM	5638	HB3	LEU	X	376	58.250	28.694	64.490	0.00	0.00
ATOM	5639	CG	LEU	X	376	58.160	26.749	65.190	0.00	0.00
ATOM	5640	HG	LEU	X	376	57.126	26.612	64.874	0.00	0.00
ATOM	5641	CD1	LEU	X	376	58.914	25.447	65.198	0.00	0.00
ATOM	5642	HD11	LEU	X	376	60.003	25.488	65.212	0.00	0.00
ATOM	5643	HD12	LEU	X	376	58.594	24.834	64.355	0.00	0.00
ATOM	5644	HD13	LEU	X	376	58.631	24.876	66.083	0.00	0.00
ATOM	5645	CD2	LEU	X	376	58.133	27.284	66.620	0.00	0.00
ATOM	5646	HD21	LEU	X	376	59.144	27.368	67.017	0.00	0.00
ATOM	5647	HD22	LEU	X	376	57.654	28.263	66.588	0.00	0.00
ATOM	5648	HD23	LEU	X	376	57.655	26.515	67.226	0.00	0.00
ATOM	5649	C	LEU	X	376	57.297	26.766	62.444	0.00	0.00
ATOM	5650	O	LEU	X	376	57.186	25.601	61.991	0.00	0.00
ATOM	5651	N	HIE	X	377	56.230	27.538	62.593	0.00	0.00
ATOM	5652	H	HIE	X	377	56.342	28.470	62.965	0.00	0.00

ATOM	5653	CA	HIE	X	377	54.862	27.189	62.325	0.00	0.00
ATOM	5654	HA	HIE	X	377	54.643	26.277	62.881	0.00	0.00
ATOM	5655	CB	HIE	X	377	53.980	28.282	62.868	0.00	0.00
ATOM	5656	HB2	HIE	X	377	54.453	28.618	63.791	0.00	0.00
ATOM	5657	HB3	HIE	X	377	53.898	29.082	62.132	0.00	0.00
ATOM	5658	CG	HIE	X	377	52.602	27.769	63.092	0.00	0.00
ATOM	5659	ND1	HIE	X	377	52.200	27.253	64.334	0.00	0.00
ATOM	5660	CE1	HIE	X	377	50.941	26.958	64.135	0.00	0.00
ATOM	5661	HE1	HIE	X	377	50.243	26.545	64.848	0.00	0.00
ATOM	5662	NE2	HIE	X	377	50.493	27.290	62.881	0.00	0.00
ATOM	5663	HE2	HIE	X	377	49.573	27.093	62.515	0.00	0.00
ATOM	5664	CD2	HIE	X	377	51.527	27.839	62.192	0.00	0.00
ATOM	5665	HD2	HIE	X	377	51.502	28.304	61.217	0.00	0.00
ATOM	5666	C	HIE	X	377	54.484	26.771	60.879	0.00	0.00
ATOM	5667	O	HIE	X	377	53.534	26.019	60.704	0.00	0.00
ATOM	5668	N	TYR	X	378	55.256	27.170	59.878	0.00	0.00
ATOM	5669	H	TYR	X	378	55.774	28.004	60.114	0.00	0.00
ATOM	5670	CA	TYR	X	378	55.168	26.630	58.487	0.00	0.00
ATOM	5671	HA	TYR	X	378	54.212	26.107	58.498	0.00	0.00
ATOM	5672	CB	TYR	X	378	55.039	27.755	57.490	0.00	0.00
ATOM	5673	HB2	TYR	X	378	55.522	28.723	57.624	0.00	0.00
ATOM	5674	HB3	TYR	X	378	55.251	27.385	56.486	0.00	0.00
ATOM	5675	CG	TYR	X	378	53.588	28.175	57.370	0.00	0.00
ATOM	5676	CD1	TYR	X	378	52.754	27.591	56.365	0.00	0.00
ATOM	5677	HD1	TYR	X	378	53.274	27.000	55.626	0.00	0.00
ATOM	5678	CE1	TYR	X	378	51.435	28.016	56.203	0.00	0.00
ATOM	5679	HE1	TYR	X	378	50.833	27.549	55.438	0.00	0.00
ATOM	5680	CZ	TYR	X	378	50.838	28.977	57.071	0.00	0.00
ATOM	5681	OH	TYR	X	378	49.532	29.281	56.855	0.00	0.00
ATOM	5682	HH	TYR	X	378	49.149	28.896	56.064	0.00	0.00
ATOM	5683	CE2	TYR	X	378	51.626	29.493	58.154	0.00	0.00
ATOM	5684	HE2	TYR	X	378	51.255	30.179	58.901	0.00	0.00
ATOM	5685	CD2	TYR	X	378	52.979	29.145	58.237	0.00	0.00
ATOM	5686	HD2	TYR	X	378	53.651	29.535	58.987	0.00	0.00
ATOM	5687	C	TYR	X	378	56.212	25.637	57.977	0.00	0.00
ATOM	5688	O	TYR	X	378	56.090	24.994	56.866	0.00	0.00
ATOM	5689	N	THR	X	379	57.187	25.353	58.823	0.00	0.00
ATOM	5690	H	THR	X	379	57.064	25.774	59.732	0.00	0.00
ATOM	5691	CA	THR	X	379	58.040	24.158	58.656	0.00	0.00
ATOM	5692	HA	THR	X	379	58.185	24.078	57.579	0.00	0.00
ATOM	5693	CB	THR	X	379	59.389	24.295	59.452	0.00	0.00
ATOM	5694	HB	THR	X	379	59.200	24.387	60.522	0.00	0.00
ATOM	5695	CG2	THR	X	379	60.424	23.146	59.284	0.00	0.00
ATOM	5696	HG21	THR	X	379	60.092	22.197	59.705	0.00	0.00
ATOM	5697	HG22	THR	X	379	61.316	23.365	59.871	0.00	0.00
ATOM	5698	HG23	THR	X	379	60.734	23.018	58.247	0.00	0.00
ATOM	5699	OG1	THR	X	379	60.041	25.401	58.956	0.00	0.00
ATOM	5700	HG1	THR	X	379	59.623	26.191	59.307	0.00	0.00
ATOM	5701	C	THR	X	379	57.329	22.937	59.103	0.00	0.00
ATOM	5702	O	THR	X	379	56.800	22.735	60.186	0.00	0.00
ATOM	5703	N	ASP	X	380	57.507	21.897	58.314	0.00	0.00
ATOM	5704	H	ASP	X	380	58.056	22.026	57.476	0.00	0.00
ATOM	5705	CA	ASP	X	380	57.266	20.459	58.490	0.00	0.00
ATOM	5706	HA	ASP	X	380	56.678	20.487	59.408	0.00	0.00
ATOM	5707	CB	ASP	X	380	56.590	19.862	57.282	0.00	0.00
ATOM	5708	HB2	ASP	X	380	55.616	20.337	57.168	0.00	0.00
ATOM	5709	HB3	ASP	X	380	57.152	20.155	56.396	0.00	0.00
ATOM	5710	CG	ASP	X	380	56.458	18.316	57.280	0.00	0.00
ATOM	5711	OD1	ASP	X	380	56.619	17.718	58.361	0.00	0.00
ATOM	5712	OD2	ASP	X	380	56.254	17.764	56.196	0.00	0.00
ATOM	5713	C	ASP	X	380	58.589	19.798	58.788	0.00	0.00
ATOM	5714	O	ASP	X	380	59.465	19.747	57.933	0.00	0.00
ATOM	5715	N	TRP	X	381	58.786	19.345	60.043	0.00	0.00
ATOM	5716	H	TRP	X	381	57.965	19.327	60.631	0.00	0.00
ATOM	5717	CA	TRP	X	381	60.067	19.248	60.711	0.00	0.00
ATOM	5718	HA	TRP	X	381	60.682	20.065	60.335	0.00	0.00
ATOM	5719	CB	TRP	X	381	59.792	19.506	62.193	0.00	0.00

ATOM	5720	HB2	TRP	X	381	58.795	19.104	62.375	0.00	0.00
ATOM	5721	HB3	TRP	X	381	60.505	18.917	62.770	0.00	0.00
ATOM	5722	CG	TRP	X	381	59.759	20.936	62.435	0.00	0.00
ATOM	5723	CD1	TRP	X	381	58.637	21.675	62.512	0.00	0.00
ATOM	5724	HD1	TRP	X	381	57.593	21.400	62.476	0.00	0.00
ATOM	5725	NE1	TRP	X	381	59.007	22.972	62.691	0.00	0.00
ATOM	5726	HE1	TRP	X	381	58.398	23.775	62.752	0.00	0.00
ATOM	5727	CE2	TRP	X	381	60.354	23.181	62.795	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	61.190	24.291	62.930	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	60.861	25.282	63.204	0.00	0.00
ATOM	5730	CH2	TRP	X	381	62.602	24.167	62.805	0.00	0.00
ATOM	5731	HH2	TRP	X	381	63.327	24.913	63.094	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	63.170	22.908	62.458	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	64.232	22.769	62.325	0.00	0.00
ATOM	5734	CE3	TRP	X	381	62.313	21.792	62.335	0.00	0.00
ATOM	5735	HE3	TRP	X	381	62.673	20.816	62.043	0.00	0.00
ATOM	5736	CD2	TRP	X	381	60.898	21.871	62.551	0.00	0.00
ATOM	5737	C	TRP	X	381	60.734	17.893	60.663	0.00	0.00
ATOM	5738	O	TRP	X	381	61.819	17.673	61.121	0.00	0.00
ATOM	5739	N	LEU	X	382	60.078	16.959	59.976	0.00	0.00
ATOM	5740	H	LEU	X	382	59.211	17.254	59.549	0.00	0.00
ATOM	5741	CA	LEU	X	382	60.691	15.694	59.556	0.00	0.00
ATOM	5742	HA	LEU	X	382	61.229	15.314	60.425	0.00	0.00
ATOM	5743	CB	LEU	X	382	59.504	14.663	59.170	0.00	0.00
ATOM	5744	HB2	LEU	X	382	58.792	14.654	59.996	0.00	0.00
ATOM	5745	HB3	LEU	X	382	58.928	14.994	58.306	0.00	0.00
ATOM	5746	CG	LEU	X	382	60.080	13.320	58.966	0.00	0.00
ATOM	5747	HG	LEU	X	382	60.986	13.265	58.363	0.00	0.00
ATOM	5748	CD1	LEU	X	382	60.671	12.683	60.208	0.00	0.00
ATOM	5749	HD11	LEU	X	382	61.666	13.043	60.469	0.00	0.00
ATOM	5750	HD12	LEU	X	382	60.638	11.616	59.987	0.00	0.00
ATOM	5751	HD13	LEU	X	382	59.970	12.764	61.038	0.00	0.00
ATOM	5752	CD2	LEU	X	382	58.974	12.392	58.337	0.00	0.00
ATOM	5753	HD21	LEU	X	382	59.386	11.620	57.687	0.00	0.00
ATOM	5754	HD22	LEU	X	382	58.395	11.978	59.163	0.00	0.00
ATOM	5755	HD23	LEU	X	382	58.169	12.904	57.810	0.00	0.00
ATOM	5756	C	LEU	X	382	61.617	15.981	58.313	0.00	0.00
ATOM	5757	O	LEU	X	382	62.505	15.190	57.982	0.00	0.00
ATOM	5758	N	HIE	X	383	61.323	17.058	57.606	0.00	0.00
ATOM	5759	H	HIE	X	383	60.592	17.669	57.942	0.00	0.00
ATOM	5760	CA	HIE	X	383	61.995	17.510	56.443	0.00	0.00
ATOM	5761	HA	HIE	X	383	63.006	17.105	56.404	0.00	0.00
ATOM	5762	CB	HIE	X	383	61.109	17.097	55.257	0.00	0.00
ATOM	5763	HB2	HIE	X	383	60.114	17.521	55.396	0.00	0.00
ATOM	5764	HB3	HIE	X	383	61.597	17.585	54.413	0.00	0.00
ATOM	5765	CG	HIE	X	383	61.134	15.576	55.051	0.00	0.00
ATOM	5766	ND1	HIE	X	383	62.259	14.913	54.516	0.00	0.00
ATOM	5767	CE1	HIE	X	383	61.994	13.616	54.621	0.00	0.00
ATOM	5768	HE1	HIE	X	383	62.637	12.782	54.385	0.00	0.00
ATOM	5769	NE2	HIE	X	383	60.789	13.429	55.197	0.00	0.00
ATOM	5770	HE2	HIE	X	383	60.448	12.527	55.496	0.00	0.00
ATOM	5771	CD2	HIE	X	383	60.183	14.655	55.495	0.00	0.00
ATOM	5772	HD2	HIE	X	383	59.223	14.779	55.975	0.00	0.00
ATOM	5773	C	HIE	X	383	62.256	19.013	56.381	0.00	0.00
ATOM	5774	O	HIE	X	383	61.667	19.692	55.550	0.00	0.00
ATOM	5775	N	PRO	X	384	63.145	19.523	57.294	0.00	0.00
ATOM	5776	CD	PRO	X	384	63.793	18.741	58.380	0.00	0.00
ATOM	5777	HD2	PRO	X	384	64.407	17.903	58.050	0.00	0.00
ATOM	5778	HD3	PRO	X	384	63.155	18.469	59.221	0.00	0.00
ATOM	5779	CG	PRO	X	384	64.811	19.731	58.931	0.00	0.00
ATOM	5780	HG2	PRO	X	384	65.632	19.855	58.224	0.00	0.00
ATOM	5781	HG3	PRO	X	384	65.007	19.480	59.974	0.00	0.00
ATOM	5782	CB	PRO	X	384	64.089	20.999	58.964	0.00	0.00
ATOM	5783	HB2	PRO	X	384	64.854	21.765	59.093	0.00	0.00
ATOM	5784	HB3	PRO	X	384	63.314	21.069	59.727	0.00	0.00
ATOM	5785	CA	PRO	X	384	63.404	20.957	57.543	0.00	0.00
ATOM	5786	HA	PRO	X	384	62.442	21.464	57.619	0.00	0.00

ATOM	5787	C	PRO	X	384	64.147	21.687	56.479	0.00	0.00
ATOM	5788	O	PRO	X	384	64.024	22.917	56.432	0.00	0.00
ATOM	5789	N	GLU	X	385	64.995	21.097	55.676	0.00	0.00
ATOM	5790	H	GLU	X	385	65.113	20.095	55.714	0.00	0.00
ATOM	5791	CA	GLU	X	385	65.761	21.694	54.541	0.00	0.00
ATOM	5792	HA	GLU	X	385	65.511	22.754	54.570	0.00	0.00
ATOM	5793	CB	GLU	X	385	67.270	21.530	54.822	0.00	0.00
ATOM	5794	HB2	GLU	X	385	67.393	20.449	54.744	0.00	0.00
ATOM	5795	HB3	GLU	X	385	67.845	21.923	53.983	0.00	0.00
ATOM	5796	CG	GLU	X	385	67.858	22.109	56.154	0.00	0.00
ATOM	5797	HG2	GLU	X	385	67.864	23.197	56.090	0.00	0.00
ATOM	5798	HG3	GLU	X	385	67.341	21.686	57.015	0.00	0.00
ATOM	5799	CD	GLU	X	385	69.287	21.695	56.175	0.00	0.00
ATOM	5800	OE1	GLU	X	385	70.135	22.538	56.014	0.00	0.00
ATOM	5801	OE2	GLU	X	385	69.649	20.548	56.585	0.00	0.00
ATOM	5802	C	GLU	X	385	65.335	21.201	53.132	0.00	0.00
ATOM	5803	O	GLU	X	385	66.120	21.447	52.211	0.00	0.00
ATOM	5804	N	ASP	X	386	64.199	20.480	53.033	0.00	0.00
ATOM	5805	H	ASP	X	386	63.595	20.303	53.823	0.00	0.00
ATOM	5806	CA	ASP	X	386	63.874	19.809	51.773	0.00	0.00
ATOM	5807	HA	ASP	X	386	64.741	19.267	51.395	0.00	0.00
ATOM	5808	CB	ASP	X	386	62.753	18.871	52.114	0.00	0.00
ATOM	5809	HB2	ASP	X	386	63.240	18.038	52.619	0.00	0.00
ATOM	5810	HB3	ASP	X	386	62.158	19.277	52.933	0.00	0.00
ATOM	5811	CG	ASP	X	386	61.967	18.215	51.003	0.00	0.00
ATOM	5812	OD1	ASP	X	386	62.174	18.410	49.781	0.00	0.00
ATOM	5813	OD2	ASP	X	386	61.134	17.303	51.338	0.00	0.00
ATOM	5814	C	ASP	X	386	63.364	20.883	50.741	0.00	0.00
ATOM	5815	O	ASP	X	386	62.450	21.629	51.050	0.00	0.00
ATOM	5816	N	PRO	X	387	64.048	21.043	49.575	0.00	0.00
ATOM	5817	CD	PRO	X	387	64.958	20.051	48.986	0.00	0.00
ATOM	5818	HD2	PRO	X	387	64.659	19.003	48.999	0.00	0.00
ATOM	5819	HD3	PRO	X	387	65.955	20.159	49.412	0.00	0.00
ATOM	5820	CG	PRO	X	387	65.043	20.438	47.503	0.00	0.00
ATOM	5821	HG2	PRO	X	387	64.178	20.202	46.885	0.00	0.00
ATOM	5822	HG3	PRO	X	387	65.921	20.038	46.996	0.00	0.00
ATOM	5823	CB	PRO	X	387	65.091	21.974	47.704	0.00	0.00
ATOM	5824	HB2	PRO	X	387	64.818	22.441	46.758	0.00	0.00
ATOM	5825	HB3	PRO	X	387	66.056	22.282	48.108	0.00	0.00
ATOM	5826	CA	PRO	X	387	64.030	22.240	48.766	0.00	0.00
ATOM	5827	HA	PRO	X	387	64.177	22.994	49.539	0.00	0.00
ATOM	5828	C	PRO	X	387	62.604	22.347	48.128	0.00	0.00
ATOM	5829	O	PRO	X	387	62.114	23.484	48.241	0.00	0.00
ATOM	5830	N	ALA	X	388	61.945	21.291	47.674	0.00	0.00
ATOM	5831	H	ALA	X	388	62.406	20.400	47.799	0.00	0.00
ATOM	5832	CA	ALA	X	388	60.642	21.397	46.978	0.00	0.00
ATOM	5833	HA	ALA	X	388	60.656	22.203	46.245	0.00	0.00
ATOM	5834	CB	ALA	X	388	60.448	20.017	46.311	0.00	0.00
ATOM	5835	HB1	ALA	X	388	59.518	19.986	45.744	0.00	0.00
ATOM	5836	HB2	ALA	X	388	60.333	19.249	47.076	0.00	0.00
ATOM	5837	HB3	ALA	X	388	61.238	19.666	45.647	0.00	0.00
ATOM	5838	C	ALA	X	388	59.587	21.809	47.981	0.00	0.00
ATOM	5839	O	ALA	X	388	58.775	22.737	47.763	0.00	0.00
ATOM	5840	N	ARG	X	389	59.549	21.102	49.159	0.00	0.00
ATOM	5841	H	ARG	X	389	60.273	20.400	49.227	0.00	0.00
ATOM	5842	CA	ARG	X	389	58.663	21.220	50.327	0.00	0.00
ATOM	5843	HA	ARG	X	389	57.629	21.031	50.040	0.00	0.00
ATOM	5844	CB	ARG	X	389	58.941	20.091	51.336	0.00	0.00
ATOM	5845	HB2	ARG	X	389	58.697	19.223	50.724	0.00	0.00
ATOM	5846	HB3	ARG	X	389	59.988	20.143	51.637	0.00	0.00
ATOM	5847	CG	ARG	X	389	57.998	20.032	52.533	0.00	0.00
ATOM	5848	HG2	ARG	X	389	57.890	21.044	52.923	0.00	0.00
ATOM	5849	HG3	ARG	X	389	57.052	19.571	52.247	0.00	0.00
ATOM	5850	CD	ARG	X	389	58.495	19.092	53.615	0.00	0.00
ATOM	5851	HD2	ARG	X	389	59.348	19.569	54.100	0.00	0.00
ATOM	5852	HD3	ARG	X	389	57.684	19.003	54.337	0.00	0.00
ATOM	5853	NE	ARG	X	389	58.828	17.780	53.083	0.00	0.00

ATOM	5854	HE	ARG	X	389	59.671	17.701	52.532	0.00	0.00
ATOM	5855	CZ	ARG	X	389	58.289	16.612	53.238	0.00	0.00
ATOM	5856	NH1	ARG	X	389	57.231	16.376	53.995	0.00	0.00
ATOM	5857	HH11	ARG	X	389	56.832	17.139	54.522	0.00	0.00
ATOM	5858	HH12	ARG	X	389	56.727	15.506	54.090	0.00	0.00
ATOM	5859	NH2	ARG	X	389	58.887	15.641	52.618	0.00	0.00
ATOM	5860	HH21	ARG	X	389	59.632	15.846	51.968	0.00	0.00
ATOM	5861	HH22	ARG	X	389	58.621	14.686	52.809	0.00	0.00
ATOM	5862	C	ARG	X	389	58.691	22.598	51.011	0.00	0.00
ATOM	5863	O	ARG	X	389	57.622	23.235	51.198	0.00	0.00
ATOM	5864	N	LEU	X	390	59.934	23.198	51.073	0.00	0.00
ATOM	5865	H	LEU	X	390	60.709	22.684	50.679	0.00	0.00
ATOM	5866	CA	LEU	X	390	60.045	24.553	51.615	0.00	0.00
ATOM	5867	HA	LEU	X	390	59.528	24.509	52.573	0.00	0.00
ATOM	5868	CB	LEU	X	390	61.463	24.888	51.941	0.00	0.00
ATOM	5869	HB2	LEU	X	390	62.064	24.595	51.081	0.00	0.00
ATOM	5870	HB3	LEU	X	390	61.524	25.970	52.053	0.00	0.00
ATOM	5871	CG	LEU	X	390	62.162	24.269	53.168	0.00	0.00
ATOM	5872	HG	LEU	X	390	62.322	23.213	52.952	0.00	0.00
ATOM	5873	CD1	LEU	X	390	63.526	24.918	53.359	0.00	0.00
ATOM	5874	HD11	LEU	X	390	63.995	24.536	54.265	0.00	0.00
ATOM	5875	HD12	LEU	X	390	63.412	25.966	53.638	0.00	0.00
ATOM	5876	HD13	LEU	X	390	64.120	24.661	52.482	0.00	0.00
ATOM	5877	CD2	LEU	X	390	61.351	24.457	54.456	0.00	0.00
ATOM	5878	HD21	LEU	X	390	61.756	23.942	55.327	0.00	0.00
ATOM	5879	HD22	LEU	X	390	61.276	25.535	54.603	0.00	0.00
ATOM	5880	HD23	LEU	X	390	60.302	24.167	54.402	0.00	0.00
ATOM	5881	C	LEU	X	390	59.469	25.600	50.608	0.00	0.00
ATOM	5882	O	LEU	X	390	58.576	26.367	50.923	0.00	0.00
ATOM	5883	N	ARG	X	391	59.804	25.442	49.285	0.00	0.00
ATOM	5884	H	ARG	X	391	60.377	24.624	49.131	0.00	0.00
ATOM	5885	CA	ARG	X	391	59.269	26.273	48.174	0.00	0.00
ATOM	5886	HA	ARG	X	391	59.499	27.310	48.420	0.00	0.00
ATOM	5887	CB	ARG	X	391	60.002	25.887	46.879	0.00	0.00
ATOM	5888	HB2	ARG	X	391	61.046	26.173	47.002	0.00	0.00
ATOM	5889	HB3	ARG	X	391	59.968	24.801	46.792	0.00	0.00
ATOM	5890	CG	ARG	X	391	59.299	26.489	45.566	0.00	0.00
ATOM	5891	HG2	ARG	X	391	58.260	26.751	45.763	0.00	0.00
ATOM	5892	HG3	ARG	X	391	59.917	27.337	45.273	0.00	0.00
ATOM	5893	CD	ARG	X	391	59.225	25.638	44.271	0.00	0.00
ATOM	5894	HD2	ARG	X	391	58.814	26.167	43.411	0.00	0.00
ATOM	5895	HD3	ARG	X	391	60.253	25.376	44.022	0.00	0.00
ATOM	5896	NE	ARG	X	391	58.516	24.270	44.414	0.00	0.00
ATOM	5897	HE	ARG	X	391	59.060	23.463	44.147	0.00	0.00
ATOM	5898	CZ	ARG	X	391	57.260	24.070	44.782	0.00	0.00
ATOM	5899	NH1	ARG	X	391	56.427	25.084	44.964	0.00	0.00
ATOM	5900	HH11	ARG	X	391	56.656	26.026	44.679	0.00	0.00
ATOM	5901	HH12	ARG	X	391	55.489	24.876	45.274	0.00	0.00
ATOM	5902	NH2	ARG	X	391	56.691	22.855	44.735	0.00	0.00
ATOM	5903	HH21	ARG	X	391	57.101	21.942	44.600	0.00	0.00
ATOM	5904	HH22	ARG	X	391	55.694	22.787	44.879	0.00	0.00
ATOM	5905	C	ARG	X	391	57.717	26.179	48.099	0.00	0.00
ATOM	5906	O	ARG	X	391	57.100	27.219	47.796	0.00	0.00
ATOM	5907	N	GLU	X	392	57.113	25.041	48.424	0.00	0.00
ATOM	5908	H	GLU	X	392	57.676	24.208	48.519	0.00	0.00
ATOM	5909	CA	GLU	X	392	55.638	24.974	48.467	0.00	0.00
ATOM	5910	HA	GLU	X	392	55.242	25.313	47.509	0.00	0.00
ATOM	5911	CB	GLU	X	392	55.249	23.440	48.415	0.00	0.00
ATOM	5912	HB2	GLU	X	392	55.852	22.801	47.771	0.00	0.00
ATOM	5913	HB3	GLU	X	392	55.467	23.032	49.401	0.00	0.00
ATOM	5914	CG	GLU	X	392	53.784	23.182	47.997	0.00	0.00
ATOM	5915	HG2	GLU	X	392	53.562	22.195	48.403	0.00	0.00
ATOM	5916	HG3	GLU	X	392	53.075	23.930	48.353	0.00	0.00
ATOM	5917	CD	GLU	X	392	53.652	23.173	46.573	0.00	0.00
ATOM	5918	OE1	GLU	X	392	53.601	22.035	46.024	0.00	0.00
ATOM	5919	OE2	GLU	X	392	53.801	24.214	45.867	0.00	0.00
ATOM	5920	C	GLU	X	392	54.984	25.694	49.674	0.00	0.00

ATOM	5921	O	GLU	X	392	53.824	26.115	49.555	0.00	0.00
ATOM	5922	N	ALA	X	393	55.723	25.805	50.812	0.00	0.00
ATOM	5923	H	ALA	X	393	56.636	25.378	50.881	0.00	0.00
ATOM	5924	CA	ALA	X	393	55.087	26.300	51.995	0.00	0.00
ATOM	5925	HA	ALA	X	393	54.071	25.920	52.105	0.00	0.00
ATOM	5926	CB	ALA	X	393	55.909	25.894	53.230	0.00	0.00
ATOM	5927	HB1	ALA	X	393	56.248	24.859	53.183	0.00	0.00
ATOM	5928	HB2	ALA	X	393	55.262	26.118	54.079	0.00	0.00
ATOM	5929	HB3	ALA	X	393	56.772	26.529	53.428	0.00	0.00
ATOM	5930	C	ALA	X	393	55.032	27.856	52.043	0.00	0.00
ATOM	5931	O	ALA	X	393	54.154	28.396	52.676	0.00	0.00
ATOM	5932	N	LEU	X	394	55.908	28.549	51.271	0.00	0.00
ATOM	5933	H	LEU	X	394	56.520	27.994	50.690	0.00	0.00
ATOM	5934	CA	LEU	X	394	55.851	30.020	51.052	0.00	0.00
ATOM	5935	HA	LEU	X	394	55.880	30.547	52.006	0.00	0.00
ATOM	5936	CB	LEU	X	394	57.176	30.459	50.397	0.00	0.00
ATOM	5937	HB2	LEU	X	394	58.020	30.100	50.987	0.00	0.00
ATOM	5938	HB3	LEU	X	394	57.174	29.974	49.421	0.00	0.00
ATOM	5939	CG	LEU	X	394	57.277	31.981	50.175	0.00	0.00
ATOM	5940	HG	LEU	X	394	56.440	32.330	49.569	0.00	0.00
ATOM	5941	CD1	LEU	X	394	57.274	32.722	51.506	0.00	0.00
ATOM	5942	HD11	LEU	X	394	57.946	32.363	52.286	0.00	0.00
ATOM	5943	HD12	LEU	X	394	56.269	32.711	51.928	0.00	0.00
ATOM	5944	HD13	LEU	X	394	57.455	33.790	51.382	0.00	0.00
ATOM	5945	CD2	LEU	X	394	58.600	32.340	49.434	0.00	0.00
ATOM	5946	HD21	LEU	X	394	58.595	31.822	48.475	0.00	0.00
ATOM	5947	HD22	LEU	X	394	58.774	33.380	49.158	0.00	0.00
ATOM	5948	HD23	LEU	X	394	59.491	32.065	49.999	0.00	0.00
ATOM	5949	C	LEU	X	394	54.626	30.463	50.238	0.00	0.00
ATOM	5950	O	LEU	X	394	54.055	31.458	50.661	0.00	0.00
ATOM	5951	N	SER	X	395	54.218	29.786	49.210	0.00	0.00
ATOM	5952	H	SER	X	395	54.722	28.940	48.985	0.00	0.00
ATOM	5953	CA	SER	X	395	52.905	30.002	48.542	0.00	0.00
ATOM	5954	HA	SER	X	395	52.770	30.989	48.099	0.00	0.00
ATOM	5955	CB	SER	X	395	52.616	28.911	47.475	0.00	0.00
ATOM	5956	HB2	SER	X	395	52.237	28.016	47.968	0.00	0.00
ATOM	5957	HB3	SER	X	395	51.665	29.272	47.081	0.00	0.00
ATOM	5958	OG	SER	X	395	53.544	28.619	46.507	0.00	0.00
ATOM	5959	HG	SER	X	395	53.224	27.877	45.988	0.00	0.00
ATOM	5960	C	SER	X	395	51.739	29.833	49.569	0.00	0.00
ATOM	5961	O	SER	X	395	50.690	30.511	49.469	0.00	0.00
ATOM	5962	N	ASP	X	396	51.907	29.007	50.615	0.00	0.00
ATOM	5963	H	ASP	X	396	52.786	28.511	50.618	0.00	0.00
ATOM	5964	CA	ASP	X	396	50.762	28.783	51.567	0.00	0.00
ATOM	5965	HA	ASP	X	396	49.855	28.848	50.966	0.00	0.00
ATOM	5966	CB	ASP	X	396	50.931	27.469	52.263	0.00	0.00
ATOM	5967	HB2	ASP	X	396	51.993	27.221	52.246	0.00	0.00
ATOM	5968	HB3	ASP	X	396	50.540	27.585	53.274	0.00	0.00
ATOM	5969	CG	ASP	X	396	50.253	26.193	51.694	0.00	0.00
ATOM	5970	OD1	ASP	X	396	50.801	25.079	51.715	0.00	0.00
ATOM	5971	OD2	ASP	X	396	49.051	26.185	51.372	0.00	0.00
ATOM	5972	C	ASP	X	396	50.698	29.960	52.525	0.00	0.00
ATOM	5973	O	ASP	X	396	49.687	30.657	52.631	0.00	0.00
ATOM	5974	N	VAL	X	397	51.816	30.287	53.170	0.00	0.00
ATOM	5975	H	VAL	X	397	52.506	29.558	53.276	0.00	0.00
ATOM	5976	CA	VAL	X	397	52.085	31.531	53.973	0.00	0.00
ATOM	5977	HA	VAL	X	397	51.577	31.450	54.934	0.00	0.00
ATOM	5978	CB	VAL	X	397	53.528	31.712	54.320	0.00	0.00
ATOM	5979	HB	VAL	X	397	54.098	31.587	53.399	0.00	0.00
ATOM	5980	CG1	VAL	X	397	53.854	33.174	54.774	0.00	0.00
ATOM	5981	HG11	VAL	X	397	53.791	33.878	53.944	0.00	0.00
ATOM	5982	HG12	VAL	X	397	53.201	33.549	55.562	0.00	0.00
ATOM	5983	HG13	VAL	X	397	54.889	33.103	55.110	0.00	0.00
ATOM	5984	CG2	VAL	X	397	54.011	30.595	55.277	0.00	0.00
ATOM	5985	HG21	VAL	X	397	53.968	29.616	54.800	0.00	0.00
ATOM	5986	HG22	VAL	X	397	53.352	30.630	56.145	0.00	0.00
ATOM	5987	HG23	VAL	X	397	55.064	30.727	55.528	0.00	0.00

ATOM	5988	C	VAL	X	397	51.574	32.773	53.202	0.00	0.00
ATOM	5989	O	VAL	X	397	50.868	33.601	53.744	0.00	0.00
ATOM	5990	N	VAL	X	398	51.863	32.925	51.875	0.00	0.00
ATOM	5991	H	VAL	X	398	52.400	32.199	51.423	0.00	0.00
ATOM	5992	CA	VAL	X	398	51.456	34.188	51.155	0.00	0.00
ATOM	5993	HA	VAL	X	398	51.593	34.973	51.899	0.00	0.00
ATOM	5994	CB	VAL	X	398	52.431	34.538	49.952	0.00	0.00
ATOM	5995	HB	VAL	X	398	52.694	33.713	49.290	0.00	0.00
ATOM	5996	CG1	VAL	X	398	51.844	35.596	49.058	0.00	0.00
ATOM	5997	HG11	VAL	X	398	50.933	35.193	48.617	0.00	0.00
ATOM	5998	HG12	VAL	X	398	51.735	36.559	49.557	0.00	0.00
ATOM	5999	HG13	VAL	X	398	52.552	35.756	48.244	0.00	0.00
ATOM	6000	CG2	VAL	X	398	53.731	35.036	50.614	0.00	0.00
ATOM	6001	HG21	VAL	X	398	54.487	35.078	49.830	0.00	0.00
ATOM	6002	HG22	VAL	X	398	53.991	34.303	51.378	0.00	0.00
ATOM	6003	HG23	VAL	X	398	53.651	35.963	51.181	0.00	0.00
ATOM	6004	C	VAL	X	398	50.005	34.249	50.835	0.00	0.00
ATOM	6005	O	VAL	X	398	49.356	35.232	51.203	0.00	0.00
ATOM	6006	N	GLY	X	399	49.451	33.256	50.237	0.00	0.00
ATOM	6007	H	GLY	X	399	50.061	32.454	50.177	0.00	0.00
ATOM	6008	CA	GLY	X	399	48.049	33.070	49.914	0.00	0.00
ATOM	6009	HA2	GLY	X	399	47.606	33.765	49.200	0.00	0.00
ATOM	6010	HA3	GLY	X	399	48.060	32.131	49.362	0.00	0.00
ATOM	6011	C	GLY	X	399	47.119	33.194	51.101	0.00	0.00
ATOM	6012	O	GLY	X	399	46.037	33.868	51.076	0.00	0.00
ATOM	6013	N	ASP	X	400	47.622	32.786	52.246	0.00	0.00
ATOM	6014	H	ASP	X	400	48.457	32.219	52.197	0.00	0.00
ATOM	6015	CA	ASP	X	400	46.800	32.656	53.484	0.00	0.00
ATOM	6016	HA	ASP	X	400	45.851	32.189	53.222	0.00	0.00
ATOM	6017	CB	ASP	X	400	47.282	31.719	54.637	0.00	0.00
ATOM	6018	HB2	ASP	X	400	48.320	31.958	54.870	0.00	0.00
ATOM	6019	HB3	ASP	X	400	46.591	31.897	55.461	0.00	0.00
ATOM	6020	CG	ASP	X	400	47.046	30.253	54.422	0.00	0.00
ATOM	6021	OD1	ASP	X	400	46.187	29.923	53.540	0.00	0.00
ATOM	6022	OD2	ASP	X	400	47.641	29.498	55.115	0.00	0.00
ATOM	6023	C	ASP	X	400	46.437	34.069	54.026	0.00	0.00
ATOM	6024	O	ASP	X	400	45.299	34.570	53.926	0.00	0.00
ATOM	6025	N	HIE	X	401	47.483	34.739	54.515	0.00	0.00
ATOM	6026	H	HIE	X	401	48.390	34.313	54.385	0.00	0.00
ATOM	6027	CA	HIE	X	401	47.421	36.094	55.120	0.00	0.00
ATOM	6028	HA	HIE	X	401	46.910	36.135	56.082	0.00	0.00
ATOM	6029	CB	HIE	X	401	48.820	36.538	55.482	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.299	35.735	56.043	0.00	0.00
ATOM	6031	HB3	HIE	X	401	49.368	36.658	54.547	0.00	0.00
ATOM	6032	CG	HIE	X	401	48.757	37.762	56.308	0.00	0.00
ATOM	6033	ND1	HIE	X	401	48.133	37.728	57.557	0.00	0.00
ATOM	6034	CE1	HIE	X	401	48.379	38.912	58.176	0.00	0.00
ATOM	6035	HE1	HIE	X	401	47.958	39.233	59.117	0.00	0.00
ATOM	6036	NE2	HIE	X	401	49.163	39.665	57.342	0.00	0.00
ATOM	6037	HE2	HIE	X	401	49.498	40.590	57.570	0.00	0.00
ATOM	6038	CD2	HIE	X	401	49.443	38.952	56.213	0.00	0.00
ATOM	6039	HD2	HIE	X	401	50.170	39.188	55.450	0.00	0.00
ATOM	6040	C	HIE	X	401	46.782	37.111	54.155	0.00	0.00
ATOM	6041	O	HIE	X	401	46.070	38.065	54.574	0.00	0.00
ATOM	6042	N	ASN	X	402	46.999	36.918	52.858	0.00	0.00
ATOM	6043	H	ASN	X	402	47.565	36.161	52.501	0.00	0.00
ATOM	6044	CA	ASN	X	402	46.506	37.873	51.882	0.00	0.00
ATOM	6045	HA	ASN	X	402	46.402	38.838	52.377	0.00	0.00
ATOM	6046	CB	ASN	X	402	47.623	38.082	50.816	0.00	0.00
ATOM	6047	HB2	ASN	X	402	47.792	37.185	50.220	0.00	0.00
ATOM	6048	HB3	ASN	X	402	47.343	38.861	50.106	0.00	0.00
ATOM	6049	CG	ASN	X	402	48.873	38.690	51.489	0.00	0.00
ATOM	6050	OD1	ASN	X	402	48.869	39.862	51.817	0.00	0.00
ATOM	6051	ND2	ASN	X	402	49.901	37.912	51.824	0.00	0.00
ATOM	6052	HD21	ASN	X	402	50.582	38.360	52.420	0.00	0.00
ATOM	6053	HD22	ASN	X	402	49.864	36.929	51.593	0.00	0.00
ATOM	6054	C	ASN	X	402	45.220	37.602	51.188	0.00	0.00

ATOM	6055	O	ASN	X	402	44.573	38.500	50.723	0.00	0.00
ATOM	6056	N	VAL	X	403	44.735	36.333	51.183	0.00	0.00
ATOM	6057	H	VAL	X	403	45.342	35.613	51.548	0.00	0.00
ATOM	6058	CA	VAL	X	403	43.574	35.930	50.350	0.00	0.00
ATOM	6059	HA	VAL	X	403	42.923	36.792	50.207	0.00	0.00
ATOM	6060	CB	VAL	X	403	43.948	35.363	48.949	0.00	0.00
ATOM	6061	HB	VAL	X	403	44.613	34.507	49.059	0.00	0.00
ATOM	6062	CG1	VAL	X	403	42.659	34.933	48.235	0.00	0.00
ATOM	6063	HG11	VAL	X	403	42.839	34.785	47.171	0.00	0.00
ATOM	6064	HG12	VAL	X	403	42.239	34.054	48.725	0.00	0.00
ATOM	6065	HG13	VAL	X	403	41.921	35.734	48.287	0.00	0.00
ATOM	6066	CG2	VAL	X	403	44.571	36.508	48.171	0.00	0.00
ATOM	6067	HG21	VAL	X	403	44.649	36.335	47.098	0.00	0.00
ATOM	6068	HG22	VAL	X	403	45.554	36.658	48.619	0.00	0.00
ATOM	6069	HG23	VAL	X	403	43.929	37.385	48.257	0.00	0.00
ATOM	6070	C	VAL	X	403	42.678	34.929	51.169	0.00	0.00
ATOM	6071	O	VAL	X	403	41.533	35.322	51.349	0.00	0.00
ATOM	6072	N	VAL	X	404	43.192	33.730	51.452	0.00	0.00
ATOM	6073	H	VAL	X	404	44.182	33.529	51.444	0.00	0.00
ATOM	6074	CA	VAL	X	404	42.297	32.648	51.983	0.00	0.00
ATOM	6075	HA	VAL	X	404	41.481	32.478	51.281	0.00	0.00
ATOM	6076	CB	VAL	X	404	43.049	31.255	52.126	0.00	0.00
ATOM	6077	HB	VAL	X	404	43.873	31.200	52.838	0.00	0.00
ATOM	6078	CG1	VAL	X	404	41.859	30.251	52.539	0.00	0.00
ATOM	6079	HG11	VAL	X	404	41.534	30.501	53.550	0.00	0.00
ATOM	6080	HG12	VAL	X	404	41.077	30.274	51.780	0.00	0.00
ATOM	6081	HG13	VAL	X	404	42.242	29.233	52.477	0.00	0.00
ATOM	6082	CG2	VAL	X	404	43.657	30.892	50.811	0.00	0.00
ATOM	6083	HG21	VAL	X	404	44.429	31.576	50.458	0.00	0.00
ATOM	6084	HG22	VAL	X	404	42.802	30.853	50.136	0.00	0.00
ATOM	6085	HG23	VAL	X	404	44.096	29.897	50.887	0.00	0.00
ATOM	6086	C	VAL	X	404	41.657	33.112	53.364	0.00	0.00
ATOM	6087	O	VAL	X	404	40.541	32.818	53.665	0.00	0.00
ATOM	6088	N	CYX	X	405	42.500	33.653	54.173	0.00	0.00
ATOM	6089	H	CYX	X	405	43.461	33.844	53.927	0.00	0.00
ATOM	6090	CA	CYX	X	405	42.166	34.013	55.588	0.00	0.00
ATOM	6091	HA	CYX	X	405	41.445	33.272	55.935	0.00	0.00
ATOM	6092	CB	CYX	X	405	43.305	33.914	56.624	0.00	0.00
ATOM	6093	HB2	CYX	X	405	44.078	34.554	56.199	0.00	0.00
ATOM	6094	HB3	CYX	X	405	42.937	34.178	57.615	0.00	0.00
ATOM	6095	SG	CYX	X	405	43.977	32.240	56.752	0.00	0.00
ATOM	6096	C	CYX	X	405	41.293	35.292	55.627	0.00	0.00
ATOM	6097	O	CYX	X	405	40.261	35.280	56.267	0.00	0.00
ATOM	6098	N	PRO	X	406	41.592	36.310	54.839	0.00	0.00
ATOM	6099	CD	PRO	X	406	42.927	36.689	54.429	0.00	0.00
ATOM	6100	HD2	PRO	X	406	43.231	36.057	53.594	0.00	0.00
ATOM	6101	HD3	PRO	X	406	43.624	36.701	55.268	0.00	0.00
ATOM	6102	CG	PRO	X	406	42.708	38.145	53.813	0.00	0.00
ATOM	6103	HG2	PRO	X	406	43.426	38.290	53.005	0.00	0.00
ATOM	6104	HG3	PRO	X	406	43.007	38.907	54.533	0.00	0.00
ATOM	6105	CB	PRO	X	406	41.242	38.228	53.439	0.00	0.00
ATOM	6106	HB2	PRO	X	406	41.046	37.843	52.439	0.00	0.00
ATOM	6107	HB3	PRO	X	406	40.956	39.268	53.598	0.00	0.00
ATOM	6108	CA	PRO	X	406	40.607	37.379	54.500	0.00	0.00
ATOM	6109	HA	PRO	X	406	40.426	37.858	55.462	0.00	0.00
ATOM	6110	C	PRO	X	406	39.324	36.817	53.966	0.00	0.00
ATOM	6111	O	PRO	X	406	38.269	37.306	54.362	0.00	0.00
ATOM	6112	N	VAL	X	407	39.277	35.865	52.940	0.00	0.00
ATOM	6113	H	VAL	X	407	40.109	35.525	52.480	0.00	0.00
ATOM	6114	CA	VAL	X	407	37.991	35.275	52.542	0.00	0.00
ATOM	6115	HA	VAL	X	407	37.315	36.099	52.317	0.00	0.00
ATOM	6116	CB	VAL	X	407	38.054	34.502	51.212	0.00	0.00
ATOM	6117	HB	VAL	X	407	38.689	33.623	51.333	0.00	0.00
ATOM	6118	CG1	VAL	X	407	36.659	33.936	50.844	0.00	0.00
ATOM	6119	HG11	VAL	X	407	36.288	33.271	51.624	0.00	0.00
ATOM	6120	HG12	VAL	X	407	35.927	34.742	50.862	0.00	0.00
ATOM	6121	HG13	VAL	X	407	36.732	33.300	49.961	0.00	0.00

ATOM	6122	CG2	VAL	X	407	38.531	35.412	50.079	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.352	36.036	50.433	0.00	0.00
ATOM	6124	HG22	VAL	X	407	37.696	36.105	49.985	0.00	0.00
ATOM	6125	HG23	VAL	X	407	38.642	34.827	49.166	0.00	0.00
ATOM	6126	C	VAL	X	407	37.240	34.500	53.616	0.00	0.00
ATOM	6127	O	VAL	X	407	36.040	34.771	53.711	0.00	0.00
ATOM	6128	N	ALA	X	408	37.925	33.760	54.501	0.00	0.00
ATOM	6129	H	ALA	X	408	38.923	33.654	54.388	0.00	0.00
ATOM	6130	CA	ALA	X	408	37.268	33.017	55.636	0.00	0.00
ATOM	6131	HA	ALA	X	408	36.457	32.360	55.323	0.00	0.00
ATOM	6132	CB	ALA	X	408	38.434	32.140	56.177	0.00	0.00
ATOM	6133	HB1	ALA	X	408	38.628	31.451	55.355	0.00	0.00
ATOM	6134	HB2	ALA	X	408	38.143	31.678	57.120	0.00	0.00
ATOM	6135	HB3	ALA	X	408	39.283	32.811	56.309	0.00	0.00
ATOM	6136	C	ALA	X	408	36.688	33.903	56.722	0.00	0.00
ATOM	6137	O	ALA	X	408	35.589	33.670	57.281	0.00	0.00
ATOM	6138	N	GLN	X	409	37.386	35.025	56.989	0.00	0.00
ATOM	6139	H	GLN	X	409	38.256	35.143	56.490	0.00	0.00
ATOM	6140	CA	GLN	X	409	36.943	36.113	57.877	0.00	0.00
ATOM	6141	HA	GLN	X	409	36.639	35.637	58.810	0.00	0.00
ATOM	6142	CB	GLN	X	409	38.114	37.145	58.064	0.00	0.00
ATOM	6143	HB2	GLN	X	409	39.052	36.718	58.417	0.00	0.00
ATOM	6144	HB3	GLN	X	409	38.267	37.696	57.136	0.00	0.00
ATOM	6145	CG	GLN	X	409	37.834	38.188	59.173	0.00	0.00
ATOM	6146	HG2	GLN	X	409	38.613	38.920	58.960	0.00	0.00
ATOM	6147	HG3	GLN	X	409	36.884	38.711	59.068	0.00	0.00
ATOM	6148	CD	GLN	X	409	37.967	37.726	60.610	0.00	0.00
ATOM	6149	OE1	GLN	X	409	37.641	36.603	61.008	0.00	0.00
ATOM	6150	NE2	GLN	X	409	38.424	38.480	61.582	0.00	0.00
ATOM	6151	HE21	GLN	X	409	38.344	38.175	62.541	0.00	0.00
ATOM	6152	HE22	GLN	X	409	38.662	39.459	61.511	0.00	0.00
ATOM	6153	C	GLN	X	409	35.761	36.851	57.299	0.00	0.00
ATOM	6154	O	GLN	X	409	34.918	37.311	58.083	0.00	0.00
ATOM	6155	N	LEU	X	410	35.681	36.982	56.003	0.00	0.00
ATOM	6156	H	LEU	X	410	36.349	36.463	55.452	0.00	0.00
ATOM	6157	CA	LEU	X	410	34.590	37.695	55.302	0.00	0.00
ATOM	6158	HA	LEU	X	410	34.407	38.657	55.780	0.00	0.00
ATOM	6159	CB	LEU	X	410	35.051	38.057	53.877	0.00	0.00
ATOM	6160	HB2	LEU	X	410	35.849	38.785	54.019	0.00	0.00
ATOM	6161	HB3	LEU	X	410	35.466	37.189	53.364	0.00	0.00
ATOM	6162	CG	LEU	X	410	33.870	38.573	52.995	0.00	0.00
ATOM	6163	HG	LEU	X	410	33.030	37.892	52.857	0.00	0.00
ATOM	6164	CD1	LEU	X	410	33.388	39.931	53.596	0.00	0.00
ATOM	6165	HD11	LEU	X	410	32.729	40.474	52.919	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.297	40.525	53.693	0.00	0.00
ATOM	6167	HD13	LEU	X	410	32.873	39.716	54.533	0.00	0.00
ATOM	6168	CD2	LEU	X	410	34.345	38.844	51.662	0.00	0.00
ATOM	6169	HD21	LEU	X	410	33.493	39.103	51.033	0.00	0.00
ATOM	6170	HD22	LEU	X	410	35.098	39.628	51.588	0.00	0.00
ATOM	6171	HD23	LEU	X	410	34.809	37.948	51.248	0.00	0.00
ATOM	6172	C	LEU	X	410	33.374	36.812	55.382	0.00	0.00
ATOM	6173	O	LEU	X	410	32.359	37.182	55.916	0.00	0.00
ATOM	6174	N	ALA	X	411	33.437	35.509	55.007	0.00	0.00
ATOM	6175	H	ALA	X	411	34.248	35.207	54.486	0.00	0.00
ATOM	6176	CA	ALA	X	411	32.369	34.441	55.119	0.00	0.00
ATOM	6177	HA	ALA	X	411	31.496	34.816	54.585	0.00	0.00
ATOM	6178	CB	ALA	X	411	32.859	33.138	54.544	0.00	0.00
ATOM	6179	HB1	ALA	X	411	32.113	32.345	54.603	0.00	0.00
ATOM	6180	HB2	ALA	X	411	33.731	32.814	55.112	0.00	0.00
ATOM	6181	HB3	ALA	X	411	33.198	33.216	53.511	0.00	0.00
ATOM	6182	C	ALA	X	411	31.848	34.248	56.633	0.00	0.00
ATOM	6183	O	ALA	X	411	30.616	34.241	56.834	0.00	0.00
ATOM	6184	N	GLY	X	412	32.699	34.185	57.626	0.00	0.00
ATOM	6185	H	GLY	X	412	33.677	34.108	57.387	0.00	0.00
ATOM	6186	CA	GLY	X	412	32.401	34.287	59.000	0.00	0.00
ATOM	6187	HA2	GLY	X	412	32.076	33.320	59.383	0.00	0.00
ATOM	6188	HA3	GLY	X	412	33.371	34.487	59.454	0.00	0.00

ATOM	6189	C	GLY	X	412	31.566	35.445	59.404	0.00	0.00
ATOM	6190	O	GLY	X	412	30.493	35.206	59.949	0.00	0.00
ATOM	6191	N	ARG	X	413	31.931	36.639	59.012	0.00	0.00
ATOM	6192	H	ARG	X	413	32.863	36.717	58.631	0.00	0.00
ATOM	6193	CA	ARG	X	413	31.249	37.876	59.475	0.00	0.00
ATOM	6194	HA	ARG	X	413	30.947	37.933	60.521	0.00	0.00
ATOM	6195	CB	ARG	X	413	32.080	39.107	59.133	0.00	0.00
ATOM	6196	HB2	ARG	X	413	32.348	38.996	58.083	0.00	0.00
ATOM	6197	HB3	ARG	X	413	31.574	40.068	59.225	0.00	0.00
ATOM	6198	CG	ARG	X	413	33.386	39.279	59.996	0.00	0.00
ATOM	6199	HG2	ARG	X	413	33.941	38.342	59.961	0.00	0.00
ATOM	6200	HG3	ARG	X	413	33.872	40.182	59.626	0.00	0.00
ATOM	6201	CD	ARG	X	413	33.042	39.679	61.481	0.00	0.00
ATOM	6202	HD2	ARG	X	413	32.526	40.637	61.549	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.330	38.927	61.819	0.00	0.00
ATOM	6204	NE	ARG	X	413	34.289	39.652	62.228	0.00	0.00
ATOM	6205	HE	ARG	X	413	34.620	40.592	62.390	0.00	0.00
ATOM	6206	CZ	ARG	X	413	34.878	38.629	62.885	0.00	0.00
ATOM	6207	NH1	ARG	X	413	34.469	37.408	62.949	0.00	0.00
ATOM	6208	HH11	ARG	X	413	33.539	37.246	62.590	0.00	0.00
ATOM	6209	HH12	ARG	X	413	34.798	36.753	63.644	0.00	0.00
ATOM	6210	NH2	ARG	X	413	35.999	38.868	63.529	0.00	0.00
ATOM	6211	HH21	ARG	X	413	36.446	39.774	63.509	0.00	0.00
ATOM	6212	HH22	ARG	X	413	36.502	38.062	63.871	0.00	0.00
ATOM	6213	C	ARG	X	413	29.880	37.890	58.738	0.00	0.00
ATOM	6214	O	ARG	X	413	28.890	38.244	59.349	0.00	0.00
ATOM	6215	N	LEU	X	414	29.835	37.694	57.459	0.00	0.00
ATOM	6216	H	LEU	X	414	30.766	37.644	57.071	0.00	0.00
ATOM	6217	CA	LEU	X	414	28.526	37.598	56.743	0.00	0.00
ATOM	6218	HA	LEU	X	414	27.954	38.508	56.925	0.00	0.00
ATOM	6219	CB	LEU	X	414	28.812	37.264	55.232	0.00	0.00
ATOM	6220	HB2	LEU	X	414	29.291	36.286	55.173	0.00	0.00
ATOM	6221	HB3	LEU	X	414	27.859	37.189	54.708	0.00	0.00
ATOM	6222	CG	LEU	X	414	29.606	38.388	54.549	0.00	0.00
ATOM	6223	HG	LEU	X	414	30.498	38.667	55.109	0.00	0.00
ATOM	6224	CD1	LEU	X	414	29.998	37.823	53.230	0.00	0.00
ATOM	6225	HD11	LEU	X	414	30.644	38.483	52.652	0.00	0.00
ATOM	6226	HD12	LEU	X	414	29.185	37.727	52.511	0.00	0.00
ATOM	6227	HD13	LEU	X	414	30.620	36.930	53.285	0.00	0.00
ATOM	6228	CD2	LEU	X	414	28.649	39.583	54.356	0.00	0.00
ATOM	6229	HD21	LEU	X	414	28.614	40.097	55.316	0.00	0.00
ATOM	6230	HD22	LEU	X	414	29.205	40.203	53.652	0.00	0.00
ATOM	6231	HD23	LEU	X	414	27.653	39.294	54.022	0.00	0.00
ATOM	6232	C	LEU	X	414	27.484	36.656	57.274	0.00	0.00
ATOM	6233	O	LEU	X	414	26.400	37.051	57.514	0.00	0.00
ATOM	6234	N	ALA	X	415	27.823	35.390	57.481	0.00	0.00
ATOM	6235	H	ALA	X	415	28.755	35.051	57.291	0.00	0.00
ATOM	6236	CA	ALA	X	415	26.904	34.402	58.020	0.00	0.00
ATOM	6237	HA	ALA	X	415	25.957	34.290	57.492	0.00	0.00
ATOM	6238	CB	ALA	X	415	27.658	33.029	58.054	0.00	0.00
ATOM	6239	HB1	ALA	X	415	27.690	32.562	57.070	0.00	0.00
ATOM	6240	HB2	ALA	X	415	27.142	32.453	58.822	0.00	0.00
ATOM	6241	HB3	ALA	X	415	28.692	32.966	58.392	0.00	0.00
ATOM	6242	C	ALA	X	415	26.482	34.829	59.456	0.00	0.00
ATOM	6243	O	ALA	X	415	25.295	34.853	59.802	0.00	0.00
ATOM	6244	N	ALA	X	416	27.459	35.287	60.264	0.00	0.00
ATOM	6245	H	ALA	X	416	28.420	35.122	59.999	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.052	35.848	61.556	0.00	0.00
ATOM	6247	HA	ALA	X	416	26.426	35.092	62.028	0.00	0.00
ATOM	6248	CB	ALA	X	416	28.358	36.078	62.443	0.00	0.00
ATOM	6249	HB1	ALA	X	416	29.004	36.738	61.864	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.829	35.100	62.535	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.202	36.545	63.416	0.00	0.00
ATOM	6252	C	ALA	X	416	26.114	37.121	61.561	0.00	0.00
ATOM	6253	O	ALA	X	416	25.437	37.409	62.526	0.00	0.00
ATOM	6254	N	GLN	X	417	26.121	37.889	60.463	0.00	0.00
ATOM	6255	H	GLN	X	417	26.688	37.590	59.683	0.00	0.00

ATOM	6256	CA	GLN	X	417	25.401	39.159	60.228	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.038	39.541	61.182	0.00	0.00
ATOM	6258	CB	GLN	X	417	26.357	40.262	59.769	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.925	39.983	58.881	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.888	41.214	59.523	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.415	40.540	60.838	0.00	0.00
ATOM	6262	HG2	GLN	X	417	26.889	40.919	61.715	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.958	39.655	61.169	0.00	0.00
ATOM	6264	CD	GLN	X	417	28.416	41.650	60.512	0.00	0.00
ATOM	6265	OE1	GLN	X	417	29.623	41.427	60.520	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.015	42.847	60.169	0.00	0.00
ATOM	6267	HE21	GLN	X	417	28.702	43.509	59.837	0.00	0.00
ATOM	6268	HE22	GLN	X	417	27.038	43.027	59.989	0.00	0.00
ATOM	6269	C	GLN	X	417	24.164	38.989	59.312	0.00	0.00
ATOM	6270	O	GLN	X	417	23.770	39.917	58.623	0.00	0.00
ATOM	6271	N	GLY	X	418	23.668	37.729	59.170	0.00	0.00
ATOM	6272	H	GLY	X	418	24.141	37.051	59.750	0.00	0.00
ATOM	6273	CA	GLY	X	418	22.406	37.331	58.690	0.00	0.00
ATOM	6274	HA2	GLY	X	418	22.147	36.469	59.305	0.00	0.00
ATOM	6275	HA3	GLY	X	418	21.595	38.024	58.915	0.00	0.00
ATOM	6276	C	GLY	X	418	22.334	37.062	57.158	0.00	0.00
ATOM	6277	O	GLY	X	418	21.247	37.016	56.585	0.00	0.00
ATOM	6278	N	ALA	X	419	23.468	37.064	56.497	0.00	0.00
ATOM	6279	H	ALA	X	419	24.289	37.099	57.084	0.00	0.00
ATOM	6280	CA	ALA	X	419	23.559	36.792	55.050	0.00	0.00
ATOM	6281	HA	ALA	X	419	22.816	37.319	54.451	0.00	0.00
ATOM	6282	CB	ALA	X	419	24.863	37.354	54.420	0.00	0.00
ATOM	6283	HB1	ALA	X	419	24.987	38.390	54.737	0.00	0.00
ATOM	6284	HB2	ALA	X	419	24.882	37.239	53.336	0.00	0.00
ATOM	6285	HB3	ALA	X	419	25.579	36.592	54.725	0.00	0.00
ATOM	6286	C	ALA	X	419	23.468	35.305	54.836	0.00	0.00
ATOM	6287	O	ALA	X	419	23.789	34.538	55.767	0.00	0.00
ATOM	6288	N	ARG	X	420	23.095	34.861	53.628	0.00	0.00
ATOM	6289	H	ARG	X	420	22.911	35.657	53.035	0.00	0.00
ATOM	6290	CA	ARG	X	420	23.230	33.474	53.144	0.00	0.00
ATOM	6291	HA	ARG	X	420	23.448	32.845	54.007	0.00	0.00
ATOM	6292	CB	ARG	X	420	21.963	32.834	52.483	0.00	0.00
ATOM	6293	HB2	ARG	X	420	21.183	32.745	53.240	0.00	0.00
ATOM	6294	HB3	ARG	X	420	21.551	33.435	51.672	0.00	0.00
ATOM	6295	CG	ARG	X	420	22.150	31.340	51.908	0.00	0.00
ATOM	6296	HG2	ARG	X	420	23.036	31.344	51.272	0.00	0.00
ATOM	6297	HG3	ARG	X	420	22.190	30.634	52.737	0.00	0.00
ATOM	6298	CD	ARG	X	420	20.913	31.128	51.151	0.00	0.00
ATOM	6299	HD2	ARG	X	420	20.745	31.938	50.441	0.00	0.00
ATOM	6300	HD3	ARG	X	420	20.988	30.174	50.629	0.00	0.00
ATOM	6301	NE	ARG	X	420	19.738	30.926	52.062	0.00	0.00
ATOM	6302	HE	ARG	X	420	19.865	31.137	53.042	0.00	0.00
ATOM	6303	CZ	ARG	X	420	18.467	30.494	51.666	0.00	0.00
ATOM	6304	NH1	ARG	X	420	18.263	29.972	50.481	0.00	0.00
ATOM	6305	HH11	ARG	X	420	18.858	30.121	49.679	0.00	0.00
ATOM	6306	HH12	ARG	X	420	17.443	29.421	50.272	0.00	0.00
ATOM	6307	NH2	ARG	X	420	17.440	30.335	52.480	0.00	0.00
ATOM	6308	HH21	ARG	X	420	17.477	30.449	53.483	0.00	0.00
ATOM	6309	HH22	ARG	X	420	16.489	30.280	52.145	0.00	0.00
ATOM	6310	C	ARG	X	420	24.475	33.391	52.263	0.00	0.00
ATOM	6311	O	ARG	X	420	24.415	33.861	51.138	0.00	0.00
ATOM	6312	N	VAL	X	421	25.528	32.691	52.708	0.00	0.00
ATOM	6313	H	VAL	X	421	25.424	32.273	53.622	0.00	0.00
ATOM	6314	CA	VAL	X	421	26.884	32.644	52.124	0.00	0.00
ATOM	6315	HA	VAL	X	421	26.993	33.374	51.322	0.00	0.00
ATOM	6316	CB	VAL	X	421	28.004	32.990	53.176	0.00	0.00
ATOM	6317	HB	VAL	X	421	28.094	32.131	53.842	0.00	0.00
ATOM	6318	CG1	VAL	X	421	29.401	33.137	52.558	0.00	0.00
ATOM	6319	HG11	VAL	X	421	29.553	34.053	51.987	0.00	0.00
ATOM	6320	HG12	VAL	X	421	30.120	33.265	53.367	0.00	0.00
ATOM	6321	HG13	VAL	X	421	29.668	32.224	52.027	0.00	0.00
ATOM	6322	CG2	VAL	X	421	27.808	34.223	54.080	0.00	0.00

ATOM	6323	HG21	VAL	X	421	26.811	34.244	54.520	0.00	0.00
ATOM	6324	HG22	VAL	X	421	28.026	35.158	53.564	0.00	0.00
ATOM	6325	HG23	VAL	X	421	28.481	34.106	54.930	0.00	0.00
ATOM	6326	C	VAL	X	421	27.103	31.197	51.532	0.00	0.00
ATOM	6327	O	VAL	X	421	26.855	30.253	52.220	0.00	0.00
ATOM	6328	N	TYR	X	422	27.581	31.154	50.276	0.00	0.00
ATOM	6329	H	TYR	X	422	27.624	32.030	49.774	0.00	0.00
ATOM	6330	CA	TYR	X	422	28.151	29.922	49.689	0.00	0.00
ATOM	6331	HA	TYR	X	422	27.938	29.072	50.337	0.00	0.00
ATOM	6332	CB	TYR	X	422	27.489	29.672	48.333	0.00	0.00
ATOM	6333	HB2	TYR	X	422	27.825	30.353	47.551	0.00	0.00
ATOM	6334	HB3	TYR	X	422	27.880	28.717	47.982	0.00	0.00
ATOM	6335	CG	TYR	X	422	26.037	29.382	48.255	0.00	0.00
ATOM	6336	CD1	TYR	X	422	25.440	28.157	48.379	0.00	0.00
ATOM	6337	HD1	TYR	X	422	26.004	27.261	48.594	0.00	0.00
ATOM	6338	CE1	TYR	X	422	24.041	28.023	48.487	0.00	0.00
ATOM	6339	HE1	TYR	X	422	23.625	27.042	48.664	0.00	0.00
ATOM	6340	CZ	TYR	X	422	23.189	29.103	48.391	0.00	0.00
ATOM	6341	OH	TYR	X	422	21.875	28.984	48.555	0.00	0.00
ATOM	6342	HH	TYR	X	422	21.662	28.061	48.398	0.00	0.00
ATOM	6343	CE2	TYR	X	422	23.789	30.373	48.136	0.00	0.00
ATOM	6344	HE2	TYR	X	422	23.140	31.219	47.966	0.00	0.00
ATOM	6345	CD2	TYR	X	422	25.227	30.518	48.047	0.00	0.00
ATOM	6346	HD2	TYR	X	422	25.734	31.465	47.931	0.00	0.00
ATOM	6347	C	TYR	X	422	29.716	30.102	49.502	0.00	0.00
ATOM	6348	O	TYR	X	422	30.069	31.239	49.127	0.00	0.00
ATOM	6349	N	ALA	X	423	30.489	29.076	49.649	0.00	0.00
ATOM	6350	H	ALA	X	423	30.124	28.216	50.032	0.00	0.00
ATOM	6351	CA	ALA	X	423	31.954	29.147	49.474	0.00	0.00
ATOM	6352	HA	ALA	X	423	32.081	29.947	48.744	0.00	0.00
ATOM	6353	CB	ALA	X	423	32.734	29.365	50.832	0.00	0.00
ATOM	6354	HB1	ALA	X	423	32.167	30.129	51.365	0.00	0.00
ATOM	6355	HB2	ALA	X	423	33.768	29.599	50.582	0.00	0.00
ATOM	6356	HB3	ALA	X	423	32.712	28.386	51.310	0.00	0.00
ATOM	6357	C	ALA	X	423	32.533	27.928	48.788	0.00	0.00
ATOM	6358	O	ALA	X	423	32.100	26.807	49.060	0.00	0.00
ATOM	6359	N	TYR	X	424	33.404	28.173	47.817	0.00	0.00
ATOM	6360	H	TYR	X	424	33.739	29.116	47.681	0.00	0.00
ATOM	6361	CA	TYR	X	424	34.088	27.149	47.049	0.00	0.00
ATOM	6362	HA	TYR	X	424	33.852	26.155	47.429	0.00	0.00
ATOM	6363	CB	TYR	X	424	33.631	27.258	45.569	0.00	0.00
ATOM	6364	HB2	TYR	X	424	33.899	26.312	45.098	0.00	0.00
ATOM	6365	HB3	TYR	X	424	32.555	27.338	45.413	0.00	0.00
ATOM	6366	CG	TYR	X	424	34.267	28.421	44.913	0.00	0.00
ATOM	6367	CD1	TYR	X	424	35.532	28.357	44.338	0.00	0.00
ATOM	6368	HD1	TYR	X	424	36.110	27.445	44.321	0.00	0.00
ATOM	6369	CE1	TYR	X	424	36.094	29.443	43.705	0.00	0.00
ATOM	6370	HE1	TYR	X	424	37.033	29.390	43.174	0.00	0.00
ATOM	6371	CZ	TYR	X	424	35.413	30.653	43.594	0.00	0.00
ATOM	6372	OH	TYR	X	424	35.879	31.548	42.775	0.00	0.00
ATOM	6373	HH	TYR	X	424	36.747	31.333	42.425	0.00	0.00
ATOM	6374	CE2	TYR	X	424	34.104	30.776	44.109	0.00	0.00
ATOM	6375	HE2	TYR	X	424	33.550	31.696	43.989	0.00	0.00
ATOM	6376	CD2	TYR	X	424	33.588	29.667	44.791	0.00	0.00
ATOM	6377	HD2	TYR	X	424	32.591	29.772	45.193	0.00	0.00
ATOM	6378	C	TYR	X	424	35.615	27.264	47.204	0.00	0.00
ATOM	6379	O	TYR	X	424	36.251	28.270	47.563	0.00	0.00
ATOM	6380	N	VAL	X	425	36.231	26.147	46.878	0.00	0.00
ATOM	6381	H	VAL	X	425	35.664	25.312	46.825	0.00	0.00
ATOM	6382	CA	VAL	X	425	37.637	26.045	46.496	0.00	0.00
ATOM	6383	HA	VAL	X	425	38.049	27.030	46.279	0.00	0.00
ATOM	6384	CB	VAL	X	425	38.449	25.355	47.677	0.00	0.00
ATOM	6385	HB	VAL	X	425	38.130	24.320	47.801	0.00	0.00
ATOM	6386	CG1	VAL	X	425	39.949	25.174	47.422	0.00	0.00
ATOM	6387	HG11	VAL	X	425	40.399	26.125	47.139	0.00	0.00
ATOM	6388	HG12	VAL	X	425	40.370	24.936	48.399	0.00	0.00
ATOM	6389	HG13	VAL	X	425	39.887	24.442	46.617	0.00	0.00

ATOM	6390	CG2	VAL	X	425	38.273	26.191	49.045	0.00	0.00
ATOM	6391	HG21	VAL	X	425	37.234	26.196	49.377	0.00	0.00
ATOM	6392	HG22	VAL	X	425	38.509	27.225	48.793	0.00	0.00
ATOM	6393	HG23	VAL	X	425	38.936	25.893	49.857	0.00	0.00
ATOM	6394	C	VAL	X	425	37.723	25.317	45.078	0.00	0.00
ATOM	6395	O	VAL	X	425	36.893	24.443	44.771	0.00	0.00
ATOM	6396	N	PHE	X	426	38.775	25.621	44.302	0.00	0.00
ATOM	6397	H	PHE	X	426	39.495	26.216	44.687	0.00	0.00
ATOM	6398	CA	PHE	X	426	38.949	25.137	42.960	0.00	0.00
ATOM	6399	HA	PHE	X	426	38.190	24.382	42.753	0.00	0.00
ATOM	6400	CB	PHE	X	426	38.752	26.256	41.928	0.00	0.00
ATOM	6401	HB2	PHE	X	426	37.717	26.596	41.954	0.00	0.00
ATOM	6402	HB3	PHE	X	426	39.263	27.144	42.299	0.00	0.00
ATOM	6403	CG	PHE	X	426	39.086	26.009	40.487	0.00	0.00
ATOM	6404	CD1	PHE	X	426	38.088	25.556	39.508	0.00	0.00
ATOM	6405	HD1	PHE	X	426	37.066	25.389	39.815	0.00	0.00
ATOM	6406	CE1	PHE	X	426	38.426	25.594	38.166	0.00	0.00
ATOM	6407	HE1	PHE	X	426	37.671	25.290	37.455	0.00	0.00
ATOM	6408	CZ	PHE	X	426	39.703	25.795	37.734	0.00	0.00
ATOM	6409	HZ	PHE	X	426	39.888	25.915	36.677	0.00	0.00
ATOM	6410	CE2	PHE	X	426	40.737	26.230	38.647	0.00	0.00
ATOM	6411	HE2	PHE	X	426	41.702	26.522	38.259	0.00	0.00
ATOM	6412	CD2	PHE	X	426	40.363	26.392	39.994	0.00	0.00
ATOM	6413	HD2	PHE	X	426	41.158	26.688	40.662	0.00	0.00
ATOM	6414	C	PHE	X	426	40.296	24.508	42.835	0.00	0.00
ATOM	6415	O	PHE	X	426	41.319	25.055	43.269	0.00	0.00
ATOM	6416	N	GLU	X	427	40.276	23.268	42.355	0.00	0.00
ATOM	6417	H	GLU	X	427	39.418	22.841	42.037	0.00	0.00
ATOM	6418	CA	GLU	X	427	41.480	22.407	42.327	0.00	0.00
ATOM	6419	HA	GLU	X	427	42.334	23.005	42.645	0.00	0.00
ATOM	6420	CB	GLU	X	427	41.264	21.405	43.436	0.00	0.00
ATOM	6421	HB2	GLU	X	427	42.244	20.940	43.543	0.00	0.00
ATOM	6422	HB3	GLU	X	427	41.042	21.988	44.331	0.00	0.00
ATOM	6423	CG	GLU	X	427	40.166	20.323	43.329	0.00	0.00
ATOM	6424	HG2	GLU	X	427	39.241	20.894	43.410	0.00	0.00
ATOM	6425	HG3	GLU	X	427	40.084	19.833	42.358	0.00	0.00
ATOM	6426	CD	GLU	X	427	40.299	19.237	44.492	0.00	0.00
ATOM	6427	OE1	GLU	X	427	40.383	19.616	45.628	0.00	0.00
ATOM	6428	OE2	GLU	X	427	40.398	18.006	44.235	0.00	0.00
ATOM	6429	C	GLU	X	427	41.809	21.605	40.983	0.00	0.00
ATOM	6430	O	GLU	X	427	42.756	20.811	40.930	0.00	0.00
ATOM	6431	N	HIE	X	428	41.150	21.884	39.861	0.00	0.00
ATOM	6432	H	HIE	X	428	40.457	22.617	39.919	0.00	0.00
ATOM	6433	CA	HIE	X	428	41.433	21.332	38.564	0.00	0.00
ATOM	6434	HA	HIE	X	428	41.763	20.308	38.739	0.00	0.00
ATOM	6435	CB	HIE	X	428	40.124	21.285	37.646	0.00	0.00
ATOM	6436	HB2	HIE	X	428	39.468	20.509	38.041	0.00	0.00
ATOM	6437	HB3	HIE	X	428	39.596	22.227	37.797	0.00	0.00
ATOM	6438	CG	HIE	X	428	40.498	21.005	36.220	0.00	0.00
ATOM	6439	ND1	HIE	X	428	41.350	20.003	35.766	0.00	0.00
ATOM	6440	CE1	HIE	X	428	41.488	20.178	34.496	0.00	0.00
ATOM	6441	HE1	HIE	X	428	42.136	19.501	33.959	0.00	0.00
ATOM	6442	NE2	HIE	X	428	40.809	21.243	34.051	0.00	0.00
ATOM	6443	HE2	HIE	X	428	40.828	21.525	33.081	0.00	0.00
ATOM	6444	CD2	HIE	X	428	40.182	21.788	35.152	0.00	0.00
ATOM	6445	HD2	HIE	X	428	39.678	22.743	35.125	0.00	0.00
ATOM	6446	C	HIE	X	428	42.603	22.170	37.960	0.00	0.00
ATOM	6447	O	HIE	X	428	42.419	23.342	37.587	0.00	0.00
ATOM	6448	N	ARG	X	429	43.780	21.629	37.683	0.00	0.00
ATOM	6449	H	ARG	X	429	43.966	20.652	37.858	0.00	0.00
ATOM	6450	CA	ARG	X	429	44.775	22.290	36.889	0.00	0.00
ATOM	6451	HA	ARG	X	429	44.865	23.338	37.178	0.00	0.00
ATOM	6452	CB	ARG	X	429	46.166	21.752	37.177	0.00	0.00
ATOM	6453	HB2	ARG	X	429	46.301	21.705	38.258	0.00	0.00
ATOM	6454	HB3	ARG	X	429	46.435	20.764	36.803	0.00	0.00
ATOM	6455	CG	ARG	X	429	47.237	22.822	36.750	0.00	0.00
ATOM	6456	HG2	ARG	X	429	47.208	22.926	35.666	0.00	0.00

ATOM	6457	HG3	ARG	X	429	47.017	23.751	37.276	0.00	0.00
ATOM	6458	CD	ARG	X	429	48.628	22.343	37.227	0.00	0.00
ATOM	6459	HD2	ARG	X	429	48.679	22.302	38.315	0.00	0.00
ATOM	6460	HD3	ARG	X	429	48.776	21.338	36.833	0.00	0.00
ATOM	6461	NE	ARG	X	429	49.652	23.375	36.724	0.00	0.00
ATOM	6462	HE	ARG	X	429	49.902	24.020	37.460	0.00	0.00
ATOM	6463	CZ	ARG	X	429	50.095	23.606	35.548	0.00	0.00
ATOM	6464	NH1	ARG	X	429	49.680	22.883	34.526	0.00	0.00
ATOM	6465	HH11	ARG	X	429	48.990	22.162	34.682	0.00	0.00
ATOM	6466	HH12	ARG	X	429	50.143	23.082	33.650	0.00	0.00
ATOM	6467	NH2	ARG	X	429	50.969	24.504	35.314	0.00	0.00
ATOM	6468	HH21	ARG	X	429	51.184	25.251	35.959	0.00	0.00
ATOM	6469	HH22	ARG	X	429	51.053	24.796	34.350	0.00	0.00
ATOM	6470	C	ARG	X	429	44.569	22.161	35.365	0.00	0.00
ATOM	6471	O	ARG	X	429	44.608	21.068	34.822	0.00	0.00
ATOM	6472	N	ALA	X	430	44.201	23.276	34.740	0.00	0.00
ATOM	6473	H	ALA	X	430	44.032	24.057	35.359	0.00	0.00
ATOM	6474	CA	ALA	X	430	43.696	23.348	33.328	0.00	0.00
ATOM	6475	HA	ALA	X	430	42.818	22.721	33.169	0.00	0.00
ATOM	6476	CB	ALA	X	430	43.271	24.791	33.041	0.00	0.00
ATOM	6477	HB1	ALA	X	430	42.315	24.882	33.555	0.00	0.00
ATOM	6478	HB2	ALA	X	430	43.202	24.952	31.965	0.00	0.00
ATOM	6479	HB3	ALA	X	430	44.038	25.440	33.465	0.00	0.00
ATOM	6480	C	ALA	X	430	44.792	22.870	32.320	0.00	0.00
ATOM	6481	O	ALA	X	430	45.975	23.178	32.370	0.00	0.00
ATOM	6482	N	SER	X	431	44.244	22.305	31.218	0.00	0.00
ATOM	6483	H	SER	X	431	43.292	21.971	31.251	0.00	0.00
ATOM	6484	CA	SER	X	431	45.003	22.017	29.996	0.00	0.00
ATOM	6485	HA	SER	X	431	45.846	21.367	30.229	0.00	0.00
ATOM	6486	CB	SER	X	431	44.125	21.219	28.924	0.00	0.00
ATOM	6487	HB2	SER	X	431	44.633	21.050	27.974	0.00	0.00
ATOM	6488	HB3	SER	X	431	43.969	20.242	29.381	0.00	0.00
ATOM	6489	OG	SER	X	431	42.944	21.959	28.603	0.00	0.00
ATOM	6490	HG	SER	X	431	42.184	21.517	28.989	0.00	0.00
ATOM	6491	C	SER	X	431	45.571	23.269	29.227	0.00	0.00
ATOM	6492	O	SER	X	431	46.465	23.132	28.321	0.00	0.00
ATOM	6493	N	THR	X	432	45.168	24.533	29.505	0.00	0.00
ATOM	6494	H	THR	X	432	44.361	24.592	30.111	0.00	0.00
ATOM	6495	CA	THR	X	432	45.617	25.785	28.772	0.00	0.00
ATOM	6496	HA	THR	X	432	46.537	25.507	28.257	0.00	0.00
ATOM	6497	CB	THR	X	432	44.509	26.201	27.763	0.00	0.00
ATOM	6498	HB	THR	X	432	43.749	26.750	28.320	0.00	0.00
ATOM	6499	CG2	THR	X	432	45.085	27.067	26.602	0.00	0.00
ATOM	6500	HG21	THR	X	432	44.287	27.630	26.117	0.00	0.00
ATOM	6501	HG22	THR	X	432	45.693	26.588	25.835	0.00	0.00
ATOM	6502	HG23	THR	X	432	45.745	27.889	26.880	0.00	0.00
ATOM	6503	OG1	THR	X	432	43.844	25.094	27.230	0.00	0.00
ATOM	6504	HG1	THR	X	432	43.351	24.516	27.818	0.00	0.00
ATOM	6505	C	THR	X	432	46.007	26.917	29.726	0.00	0.00
ATOM	6506	O	THR	X	432	45.362	27.997	29.712	0.00	0.00
ATOM	6507	N	LEU	X	433	47.016	26.702	30.538	0.00	0.00
ATOM	6508	H	LEU	X	433	47.464	25.805	30.415	0.00	0.00
ATOM	6509	CA	LEU	X	433	47.657	27.599	31.545	0.00	0.00
ATOM	6510	HA	LEU	X	433	47.122	28.536	31.388	0.00	0.00
ATOM	6511	CB	LEU	X	433	47.441	26.985	32.966	0.00	0.00
ATOM	6512	HB2	LEU	X	433	46.380	26.961	33.215	0.00	0.00
ATOM	6513	HB3	LEU	X	433	47.765	25.945	32.997	0.00	0.00
ATOM	6514	CG	LEU	X	433	48.147	27.668	34.127	0.00	0.00
ATOM	6515	HG	LEU	X	433	49.217	27.683	33.918	0.00	0.00
ATOM	6516	CD1	LEU	X	433	47.651	29.132	34.309	0.00	0.00
ATOM	6517	HD11	LEU	X	433	47.762	29.654	33.358	0.00	0.00
ATOM	6518	HD12	LEU	X	433	48.317	29.696	34.964	0.00	0.00
ATOM	6519	HD13	LEU	X	433	46.630	29.028	34.674	0.00	0.00
ATOM	6520	CD2	LEU	X	433	47.958	26.788	35.396	0.00	0.00
ATOM	6521	HD21	LEU	X	433	46.896	26.680	35.617	0.00	0.00
ATOM	6522	HD22	LEU	X	433	48.495	25.851	35.246	0.00	0.00
ATOM	6523	HD23	LEU	X	433	48.472	27.175	36.277	0.00	0.00

ATOM	6524	C	LEU	X	433	49.151	27.771	31.142	0.00	0.00
ATOM	6525	O	LEU	X	433	49.783	26.792	30.777	0.00	0.00
ATOM	6526	N	SER	X	434	49.748	28.950	31.221	0.00	0.00
ATOM	6527	H	SER	X	434	49.144	29.753	31.324	0.00	0.00
ATOM	6528	CA	SER	X	434	51.079	29.250	30.676	0.00	0.00
ATOM	6529	HA	SER	X	434	51.194	28.426	29.972	0.00	0.00
ATOM	6530	CB	SER	X	434	51.109	30.653	30.122	0.00	0.00
ATOM	6531	HB2	SER	X	434	50.997	31.451	30.855	0.00	0.00
ATOM	6532	HB3	SER	X	434	52.053	30.749	29.586	0.00	0.00
ATOM	6533	OG	SER	X	434	50.023	30.919	29.268	0.00	0.00
ATOM	6534	HG	SER	X	434	50.273	30.646	28.383	0.00	0.00
ATOM	6535	C	SER	X	434	52.214	29.122	31.779	0.00	0.00
ATOM	6536	O	SER	X	434	53.396	28.963	31.442	0.00	0.00
ATOM	6537	N	TRP	X	435	51.871	29.332	33.024	0.00	0.00
ATOM	6538	H	TRP	X	435	50.893	29.577	33.086	0.00	0.00
ATOM	6539	CA	TRP	X	435	52.732	29.337	34.203	0.00	0.00
ATOM	6540	HA	TRP	X	435	53.619	29.944	34.018	0.00	0.00
ATOM	6541	CB	TRP	X	435	52.034	29.999	35.372	0.00	0.00
ATOM	6542	HB2	TRP	X	435	51.114	29.453	35.579	0.00	0.00
ATOM	6543	HB3	TRP	X	435	52.632	29.961	36.283	0.00	0.00
ATOM	6544	CG	TRP	X	435	51.684	31.445	35.175	0.00	0.00
ATOM	6545	CD1	TRP	X	435	50.494	31.975	34.779	0.00	0.00
ATOM	6546	HD1	TRP	X	435	49.567	31.425	34.835	0.00	0.00
ATOM	6547	NE1	TRP	X	435	50.652	33.324	34.483	0.00	0.00
ATOM	6548	HE1	TRP	X	435	49.893	33.928	34.199	0.00	0.00
ATOM	6549	CE2	TRP	X	435	51.939	33.730	34.626	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	52.565	34.977	34.609	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	51.925	35.817	34.381	0.00	0.00
ATOM	6552	CH2	TRP	X	435	53.974	35.114	34.779	0.00	0.00
ATOM	6553	HH2	TRP	X	435	54.429	36.041	34.464	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	54.670	33.928	35.185	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	55.717	34.045	35.421	0.00	0.00
ATOM	6556	CE3	TRP	X	435	53.966	32.775	35.495	0.00	0.00
ATOM	6557	HE3	TRP	X	435	54.568	31.966	35.881	0.00	0.00
ATOM	6558	CD2	TRP	X	435	52.616	32.587	35.163	0.00	0.00
ATOM	6559	C	TRP	X	435	53.166	27.883	34.569	0.00	0.00
ATOM	6560	O	TRP	X	435	52.365	26.886	34.381	0.00	0.00
ATOM	6561	N	PRO	X	436	54.398	27.689	35.124	0.00	0.00
ATOM	6562	CD	PRO	X	436	55.450	28.662	35.253	0.00	0.00
ATOM	6563	HD2	PRO	X	436	55.210	29.405	36.013	0.00	0.00
ATOM	6564	HD3	PRO	X	436	55.702	29.199	34.339	0.00	0.00
ATOM	6565	CG	PRO	X	436	56.730	27.910	35.603	0.00	0.00
ATOM	6566	HG2	PRO	X	436	57.414	28.504	36.209	0.00	0.00
ATOM	6567	HG3	PRO	X	436	57.248	27.483	34.744	0.00	0.00
ATOM	6568	CB	PRO	X	436	56.146	26.787	36.398	0.00	0.00
ATOM	6569	HB2	PRO	X	436	55.902	27.123	37.405	0.00	0.00
ATOM	6570	HB3	PRO	X	436	56.822	25.942	36.529	0.00	0.00
ATOM	6571	CA	PRO	X	436	54.934	26.414	35.529	0.00	0.00
ATOM	6572	HA	PRO	X	436	55.355	25.848	34.698	0.00	0.00
ATOM	6573	C	PRO	X	436	53.970	25.496	36.371	0.00	0.00
ATOM	6574	O	PRO	X	436	53.012	25.982	37.014	0.00	0.00
ATOM	6575	N	LEU	X	437	54.189	24.123	36.304	0.00	0.00
ATOM	6576	H	LEU	X	437	55.088	23.839	35.943	0.00	0.00
ATOM	6577	CA	LEU	X	437	53.472	23.109	37.045	0.00	0.00
ATOM	6578	HA	LEU	X	437	52.452	23.261	36.694	0.00	0.00
ATOM	6579	CB	LEU	X	437	53.959	21.724	36.574	0.00	0.00
ATOM	6580	HB2	LEU	X	437	54.039	21.702	35.487	0.00	0.00
ATOM	6581	HB3	LEU	X	437	55.020	21.553	36.752	0.00	0.00
ATOM	6582	CG	LEU	X	437	53.174	20.465	37.055	0.00	0.00
ATOM	6583	HG	LEU	X	437	53.326	20.276	38.118	0.00	0.00
ATOM	6584	CD1	LEU	X	437	51.679	20.744	36.871	0.00	0.00
ATOM	6585	HD11	LEU	X	437	51.350	21.605	37.454	0.00	0.00
ATOM	6586	HD12	LEU	X	437	51.129	19.940	37.358	0.00	0.00
ATOM	6587	HD13	LEU	X	437	51.496	20.957	35.817	0.00	0.00
ATOM	6588	CD2	LEU	X	437	53.577	19.314	36.154	0.00	0.00
ATOM	6589	HD21	LEU	X	437	53.329	19.367	35.094	0.00	0.00
ATOM	6590	HD22	LEU	X	437	54.621	19.124	36.402	0.00	0.00

ATOM	6591	HD23	LEU	X	437	53.248	18.355	36.555	0.00	0.00
ATOM	6592	C	LEU	X	437	53.588	23.242	38.566	0.00	0.00
ATOM	6593	O	LEU	X	437	52.626	23.043	39.257	0.00	0.00
ATOM	6594	N	TRP	X	438	54.768	23.576	39.086	0.00	0.00
ATOM	6595	H	TRP	X	438	55.504	23.841	38.447	0.00	0.00
ATOM	6596	CA	TRP	X	438	54.979	23.626	40.569	0.00	0.00
ATOM	6597	HA	TRP	X	438	54.572	22.751	41.076	0.00	0.00
ATOM	6598	CB	TRP	X	438	56.487	23.541	40.805	0.00	0.00
ATOM	6599	HB2	TRP	X	438	56.722	23.563	41.869	0.00	0.00
ATOM	6600	HB3	TRP	X	438	56.757	22.548	40.444	0.00	0.00
ATOM	6601	CG	TRP	X	438	57.431	24.463	40.181	0.00	0.00
ATOM	6602	CD1	TRP	X	438	58.265	24.176	39.161	0.00	0.00
ATOM	6603	HD1	TRP	X	438	58.464	23.159	38.856	0.00	0.00
ATOM	6604	NE1	TRP	X	438	59.105	25.272	38.892	0.00	0.00
ATOM	6605	HE1	TRP	X	438	59.877	25.253	38.242	0.00	0.00
ATOM	6606	CE2	TRP	X	438	58.671	26.384	39.610	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	58.882	27.738	39.449	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	59.491	28.077	38.624	0.00	0.00
ATOM	6609	CH2	TRP	X	438	58.434	28.621	40.460	0.00	0.00
ATOM	6610	HH2	TRP	X	438	58.912	29.586	40.538	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	57.658	28.160	41.522	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	57.493	28.917	42.275	0.00	0.00
ATOM	6613	CE3	TRP	X	438	57.187	26.817	41.540	0.00	0.00
ATOM	6614	HE3	TRP	X	438	56.505	26.438	42.286	0.00	0.00
ATOM	6615	CD2	TRP	X	438	57.648	25.896	40.558	0.00	0.00
ATOM	6616	C	TRP	X	438	54.402	24.857	41.226	0.00	0.00
ATOM	6617	O	TRP	X	438	54.375	24.731	42.452	0.00	0.00
ATOM	6618	N	MET	X	439	53.816	25.705	40.489	0.00	0.00
ATOM	6619	H	MET	X	439	53.683	25.341	39.556	0.00	0.00
ATOM	6620	CA	MET	X	439	52.914	26.831	40.847	0.00	0.00
ATOM	6621	HA	MET	X	439	53.174	27.193	41.841	0.00	0.00
ATOM	6622	CB	MET	X	439	53.029	28.093	39.954	0.00	0.00
ATOM	6623	HB2	MET	X	439	52.635	27.714	39.011	0.00	0.00
ATOM	6624	HB3	MET	X	439	52.345	28.895	40.231	0.00	0.00
ATOM	6625	CG	MET	X	439	54.426	28.590	39.730	0.00	0.00
ATOM	6626	HG2	MET	X	439	54.832	28.888	40.696	0.00	0.00
ATOM	6627	HD3	MET	X	439	55.077	27.766	39.436	0.00	0.00
ATOM	6628	SD	MET	X	439	54.747	29.755	38.441	0.00	0.00
ATOM	6629	CE	MET	X	439	53.564	31.061	38.898	0.00	0.00
ATOM	6630	HE1	MET	X	439	53.616	31.370	39.942	0.00	0.00
ATOM	6631	HE2	MET	X	439	53.702	31.869	38.179	0.00	0.00
ATOM	6632	HE3	MET	X	439	52.536	30.727	38.757	0.00	0.00
ATOM	6633	C	MET	X	439	51.469	26.316	40.981	0.00	0.00
ATOM	6634	O	MET	X	439	50.650	27.093	41.361	0.00	0.00
ATOM	6635	N	GLY	X	440	51.139	25.066	40.669	0.00	0.00
ATOM	6636	H	GLY	X	440	51.913	24.513	40.331	0.00	0.00
ATOM	6637	CA	GLY	X	440	49.903	24.351	41.054	0.00	0.00
ATOM	6638	HA2	GLY	X	440	50.019	23.321	40.715	0.00	0.00
ATOM	6639	HA3	GLY	X	440	49.787	24.339	42.137	0.00	0.00
ATOM	6640	C	GLY	X	440	48.809	24.954	40.236	0.00	0.00
ATOM	6641	O	GLY	X	440	48.886	25.080	39.001	0.00	0.00
ATOM	6642	N	VAL	X	441	47.871	25.418	40.979	0.00	0.00
ATOM	6643	H	VAL	X	441	47.944	25.365	41.985	0.00	0.00
ATOM	6644	CA	VAL	X	441	46.717	26.168	40.395	0.00	0.00
ATOM	6645	HA	VAL	X	441	46.730	26.180	39.305	0.00	0.00
ATOM	6646	CB	VAL	X	441	45.296	25.603	40.544	0.00	0.00
ATOM	6647	HB	VAL	X	441	44.893	25.746	41.546	0.00	0.00
ATOM	6648	CG1	VAL	X	441	44.320	26.298	39.536	0.00	0.00
ATOM	6649	HG11	VAL	X	441	43.457	25.646	39.397	0.00	0.00
ATOM	6650	HG12	VAL	X	441	44.005	27.245	39.974	0.00	0.00
ATOM	6651	HG13	VAL	X	441	44.791	26.467	38.567	0.00	0.00
ATOM	6652	CG2	VAL	X	441	45.207	24.144	40.234	0.00	0.00
ATOM	6653	HG21	VAL	X	441	44.184	23.791	40.098	0.00	0.00
ATOM	6654	HG22	VAL	X	441	45.587	23.590	41.093	0.00	0.00
ATOM	6655	HG23	VAL	X	441	45.658	23.797	39.305	0.00	0.00
ATOM	6656	C	VAL	X	441	46.787	27.607	41.027	0.00	0.00
ATOM	6657	O	VAL	X	441	46.257	27.733	42.088	0.00	0.00

ATOM	6658	N	PRO	X	442	47.488	28.617	40.375	0.00	0.00
ATOM	6659	CD	PRO	X	442	48.166	28.493	39.046	0.00	0.00
ATOM	6660	HD2	PRO	X	442	47.478	28.019	38.346	0.00	0.00
ATOM	6661	HD3	PRO	X	442	49.084	27.930	39.215	0.00	0.00
ATOM	6662	CG	PRO	X	442	48.572	29.805	38.529	0.00	0.00
ATOM	6663	HG2	PRO	X	442	47.735	30.261	37.999	0.00	0.00
ATOM	6664	HG3	PRO	X	442	49.432	29.667	37.875	0.00	0.00
ATOM	6665	CB	PRO	X	442	48.827	30.540	39.798	0.00	0.00
ATOM	6666	HB2	PRO	X	442	48.690	31.619	39.720	0.00	0.00
ATOM	6667	HB3	PRO	X	442	49.755	30.296	40.314	0.00	0.00
ATOM	6668	CA	PRO	X	442	47.785	29.949	40.794	0.00	0.00
ATOM	6669	HA	PRO	X	442	48.081	29.930	41.843	0.00	0.00
ATOM	6670	C	PRO	X	442	46.531	30.768	40.812	0.00	0.00
ATOM	6671	O	PRO	X	442	45.704	30.774	39.882	0.00	0.00
ATOM	6672	N	HIP	X	443	46.558	31.675	41.783	0.00	0.00
ATOM	6673	H	HIP	X	443	47.256	31.587	42.507	0.00	0.00
ATOM	6674	CA	HIP	X	443	45.772	32.932	42.029	0.00	0.00
ATOM	6675	HA	HIP	X	443	45.078	32.659	42.825	0.00	0.00
ATOM	6676	CB	HIP	X	443	46.783	33.946	42.523	0.00	0.00
ATOM	6677	HB2	HIP	X	443	47.293	33.529	43.391	0.00	0.00
ATOM	6678	HB3	HIP	X	443	47.578	34.089	41.792	0.00	0.00
ATOM	6679	CG	HIP	X	443	46.179	35.336	42.792	0.00	0.00
ATOM	6680	ND1	HIP	X	443	45.160	35.640	43.700	0.00	0.00
ATOM	6681	HD1	HIP	X	443	44.703	34.956	44.286	0.00	0.00
ATOM	6682	CE1	HIP	X	443	44.844	36.967	43.481	0.00	0.00
ATOM	6683	HE1	HIP	X	443	44.234	37.565	44.143	0.00	0.00
ATOM	6684	NE2	HIP	X	443	45.573	37.435	42.499	0.00	0.00
ATOM	6685	HE2	HIP	X	443	45.537	38.322	42.017	0.00	0.00
ATOM	6686	CD2	HIP	X	443	46.427	36.471	42.103	0.00	0.00
ATOM	6687	HD2	HIP	X	443	47.166	36.602	41.327	0.00	0.00
ATOM	6688	C	HIP	X	443	45.065	33.427	40.737	0.00	0.00
ATOM	6689	O	HIP	X	443	45.692	34.083	39.930	0.00	0.00
ATOM	6690	N	GLY	X	444	43.736	33.226	40.719	0.00	0.00
ATOM	6691	H	GLY	X	444	43.145	32.844	41.444	0.00	0.00
ATOM	6692	CA	GLY	X	444	42.947	33.958	39.701	0.00	0.00
ATOM	6693	HA2	GLY	X	444	41.887	33.942	39.951	0.00	0.00
ATOM	6694	HA3	GLY	X	444	43.231	35.010	39.676	0.00	0.00
ATOM	6695	C	GLY	X	444	43.032	33.426	38.275	0.00	0.00
ATOM	6696	O	GLY	X	444	43.351	34.097	37.337	0.00	0.00
ATOM	6697	N	TYR	X	445	42.656	32.138	38.075	0.00	0.00
ATOM	6698	H	TYR	X	445	42.233	31.677	38.868	0.00	0.00
ATOM	6699	CA	TYR	X	445	42.692	31.359	36.839	0.00	0.00
ATOM	6700	HA	TYR	X	445	42.699	32.068	36.011	0.00	0.00
ATOM	6701	CB	TYR	X	445	44.063	30.758	36.662	0.00	0.00
ATOM	6702	HB2	TYR	X	445	44.471	30.493	37.638	0.00	0.00
ATOM	6703	HB3	TYR	X	445	43.921	29.803	36.157	0.00	0.00
ATOM	6704	CG	TYR	X	445	45.143	31.427	35.831	0.00	0.00
ATOM	6705	CD1	TYR	X	445	44.987	31.381	34.459	0.00	0.00
ATOM	6706	HD1	TYR	X	445	44.076	30.973	34.046	0.00	0.00
ATOM	6707	CE1	TYR	X	445	45.938	31.926	33.532	0.00	0.00
ATOM	6708	HE1	TYR	X	445	45.920	31.899	32.453	0.00	0.00
ATOM	6709	CZ	TYR	X	445	47.029	32.610	34.065	0.00	0.00
ATOM	6710	OH	TYR	X	445	47.974	33.233	33.295	0.00	0.00
ATOM	6711	HH	TYR	X	445	48.040	32.983	32.371	0.00	0.00
ATOM	6712	CE2	TYR	X	445	47.136	32.815	35.447	0.00	0.00
ATOM	6713	HE2	TYR	X	445	48.035	33.311	35.783	0.00	0.00
ATOM	6714	CD2	TYR	X	445	46.227	32.145	36.340	0.00	0.00
ATOM	6715	HD2	TYR	X	445	46.313	32.261	37.410	0.00	0.00
ATOM	6716	C	TYR	X	445	41.464	30.507	36.547	0.00	0.00
ATOM	6717	O	TYR	X	445	41.317	30.054	35.418	0.00	0.00
ATOM	6718	N	GLU	X	446	40.581	30.323	37.491	0.00	0.00
ATOM	6719	H	GLU	X	446	40.588	30.826	38.367	0.00	0.00
ATOM	6720	CA	GLU	X	446	39.326	29.693	37.258	0.00	0.00
ATOM	6721	HA	GLU	X	446	39.499	28.881	36.553	0.00	0.00
ATOM	6722	CB	GLU	X	446	38.729	29.154	38.607	0.00	0.00
ATOM	6723	HB2	GLU	X	446	38.061	28.323	38.380	0.00	0.00
ATOM	6724	HB3	GLU	X	446	39.524	28.813	39.270	0.00	0.00

ATOM	6725	CG	GLU	X	446	37.783	30.051	39.375	0.00	0.00
ATOM	6726	HG2	GLU	X	446	36.945	30.464	38.815	0.00	0.00
ATOM	6727	HG3	GLU	X	446	37.468	29.309	40.108	0.00	0.00
ATOM	6728	CD	GLU	X	446	38.509	31.167	40.084	0.00	0.00
ATOM	6729	OE1	GLU	X	446	39.503	31.727	39.500	0.00	0.00
ATOM	6730	OE2	GLU	X	446	38.005	31.661	41.082	0.00	0.00
ATOM	6731	C	GLU	X	446	38.374	30.685	36.524	0.00	0.00
ATOM	6732	O	GLU	X	446	37.453	30.132	35.844	0.00	0.00
ATOM	6733	N	ILE	X	447	38.542	32.030	36.475	0.00	0.00
ATOM	6734	H	ILE	X	447	39.210	32.492	37.075	0.00	0.00
ATOM	6735	CA	ILE	X	447	37.600	32.896	35.925	0.00	0.00
ATOM	6736	HA	ILE	X	447	36.649	32.674	36.410	0.00	0.00
ATOM	6737	CB	ILE	X	447	38.059	34.330	36.250	0.00	0.00
ATOM	6738	HB	ILE	X	447	37.181	34.848	35.864	0.00	0.00
ATOM	6739	CG2	ILE	X	447	38.135	34.546	37.785	0.00	0.00
ATOM	6740	HG21	ILE	X	447	37.299	33.979	38.195	0.00	0.00
ATOM	6741	HG22	ILE	X	447	37.964	35.599	38.009	0.00	0.00
ATOM	6742	HG23	ILE	X	447	39.045	34.138	38.223	0.00	0.00
ATOM	6743	CG1	ILE	X	447	39.198	34.889	35.359	0.00	0.00
ATOM	6744	HG12	ILE	X	447	39.055	34.503	34.349	0.00	0.00
ATOM	6745	HG13	ILE	X	447	38.932	35.930	35.180	0.00	0.00
ATOM	6746	CD1	ILE	X	447	40.651	34.660	35.893	0.00	0.00
ATOM	6747	HD11	ILE	X	447	40.915	33.610	35.767	0.00	0.00
ATOM	6748	HD12	ILE	X	447	40.740	34.981	36.931	0.00	0.00
ATOM	6749	HD13	ILE	X	447	41.309	35.278	35.281	0.00	0.00
ATOM	6750	C	ILE	X	447	37.317	32.615	34.414	0.00	0.00
ATOM	6751	O	ILE	X	447	36.290	32.900	33.822	0.00	0.00
ATOM	6752	N	GLU	X	448	38.300	31.890	33.739	0.00	0.00
ATOM	6753	H	GLU	X	448	39.033	31.475	34.295	0.00	0.00
ATOM	6754	CA	GLU	X	448	38.234	31.575	32.306	0.00	0.00
ATOM	6755	HA	GLU	X	448	37.950	32.414	31.670	0.00	0.00
ATOM	6756	CB	GLU	X	448	39.641	31.017	31.804	0.00	0.00
ATOM	6757	HB2	GLU	X	448	39.968	30.146	32.372	0.00	0.00
ATOM	6758	HB3	GLU	X	448	39.484	30.743	30.760	0.00	0.00
ATOM	6759	CG	GLU	X	448	40.806	31.933	31.949	0.00	0.00
ATOM	6760	HG2	GLU	X	448	40.444	32.917	31.652	0.00	0.00
ATOM	6761	HG3	GLU	X	448	41.117	31.998	32.991	0.00	0.00
ATOM	6762	CD	GLU	X	448	41.999	31.356	31.172	0.00	0.00
ATOM	6763	OE1	GLU	X	448	42.755	30.612	31.832	0.00	0.00
ATOM	6764	OE2	GLU	X	448	42.154	31.592	29.953	0.00	0.00
ATOM	6765	C	GLU	X	448	37.114	30.575	32.053	0.00	0.00
ATOM	6766	O	GLU	X	448	36.539	30.544	30.958	0.00	0.00
ATOM	6767	N	PHE	X	449	36.665	29.826	33.025	0.00	0.00
ATOM	6768	H	PHE	X	449	37.068	29.969	33.940	0.00	0.00
ATOM	6769	CA	PHE	X	449	35.547	28.903	33.100	0.00	0.00
ATOM	6770	HA	PHE	X	449	35.561	28.333	32.171	0.00	0.00
ATOM	6771	CB	PHE	X	449	35.883	27.836	34.140	0.00	0.00
ATOM	6772	HB2	PHE	X	449	35.993	28.330	35.106	0.00	0.00
ATOM	6773	HB3	PHE	X	449	34.988	27.248	34.341	0.00	0.00
ATOM	6774	CG	PHE	X	449	37.029	26.856	33.703	0.00	0.00
ATOM	6775	CD1	PHE	X	449	38.383	27.297	33.600	0.00	0.00
ATOM	6776	HD1	PHE	X	449	38.726	28.293	33.837	0.00	0.00
ATOM	6777	CE1	PHE	X	449	39.320	26.429	33.154	0.00	0.00
ATOM	6778	HE1	PHE	X	449	40.325	26.807	33.037	0.00	0.00
ATOM	6779	CZ	PHE	X	449	39.072	25.088	32.896	0.00	0.00
ATOM	6780	HZ	PHE	X	449	39.888	24.409	32.696	0.00	0.00
ATOM	6781	CE2	PHE	X	449	37.750	24.633	33.020	0.00	0.00
ATOM	6782	HE2	PHE	X	449	37.559	23.582	32.858	0.00	0.00
ATOM	6783	CD2	PHE	X	449	36.689	25.543	33.367	0.00	0.00
ATOM	6784	HD2	PHE	X	449	35.666	25.200	33.404	0.00	0.00
ATOM	6785	C	PHE	X	449	34.240	29.622	33.332	0.00	0.00
ATOM	6786	O	PHE	X	449	33.207	29.082	33.005	0.00	0.00
ATOM	6787	N	ILE	X	450	34.255	30.796	33.952	0.00	0.00
ATOM	6788	H	ILE	X	450	35.144	31.177	34.241	0.00	0.00
ATOM	6789	CA	ILE	X	450	33.083	31.649	34.160	0.00	0.00
ATOM	6790	HA	ILE	X	450	32.146	31.118	34.331	0.00	0.00
ATOM	6791	CB	ILE	X	450	33.319	32.598	35.376	0.00	0.00

ATOM	6792	HB	ILE	X	450	34.199	33.202	35.157	0.00	0.00
ATOM	6793	CG2	ILE	X	450	32.176	33.541	35.866	0.00	0.00
ATOM	6794	HG21	ILE	X	450	31.963	34.213	35.035	0.00	0.00
ATOM	6795	HG22	ILE	X	450	32.607	34.296	36.523	0.00	0.00
ATOM	6796	HG23	ILE	X	450	31.359	32.951	36.282	0.00	0.00
ATOM	6797	CG1	ILE	X	450	33.582	31.792	36.639	0.00	0.00
ATOM	6798	HG12	ILE	X	450	34.520	31.251	36.508	0.00	0.00
ATOM	6799	HG13	ILE	X	450	33.651	32.463	37.495	0.00	0.00
ATOM	6800	CD1	ILE	X	450	32.541	30.739	37.054	0.00	0.00
ATOM	6801	HD11	ILE	X	450	31.696	31.170	37.591	0.00	0.00
ATOM	6802	HD12	ILE	X	450	33.018	30.085	37.784	0.00	0.00
ATOM	6803	HD13	ILE	X	450	32.324	30.177	36.146	0.00	0.00
ATOM	6804	C	ILE	X	450	32.775	32.554	32.940	0.00	0.00
ATOM	6805	O	ILE	X	450	31.599	32.615	32.542	0.00	0.00
ATOM	6806	N	PHE	X	451	33.809	33.030	32.200	0.00	0.00
ATOM	6807	H	PHE	X	451	34.745	33.044	32.578	0.00	0.00
ATOM	6808	CA	PHE	X	451	33.664	33.674	30.895	0.00	0.00
ATOM	6809	HA	PHE	X	451	32.764	34.284	30.815	0.00	0.00
ATOM	6810	CB	PHE	X	451	34.811	34.699	30.694	0.00	0.00
ATOM	6811	HB2	PHE	X	451	35.739	34.179	30.929	0.00	0.00
ATOM	6812	HB3	PHE	X	451	34.906	34.829	29.616	0.00	0.00
ATOM	6813	CG	PHE	X	451	34.694	36.052	31.491	0.00	0.00
ATOM	6814	CD1	PHE	X	451	35.134	36.193	32.809	0.00	0.00
ATOM	6815	HD1	PHE	X	451	35.652	35.397	33.323	0.00	0.00
ATOM	6816	CE1	PHE	X	451	34.939	37.468	33.365	0.00	0.00
ATOM	6817	HE1	PHE	X	451	35.360	37.705	34.331	0.00	0.00
ATOM	6818	CZ	PHE	X	451	34.248	38.499	32.644	0.00	0.00
ATOM	6819	HZ	PHE	X	451	34.221	39.499	33.054	0.00	0.00
ATOM	6820	CE2	PHE	X	451	33.719	38.321	31.399	0.00	0.00
ATOM	6821	HE2	PHE	X	451	32.990	38.996	30.974	0.00	0.00
ATOM	6822	CD2	PHE	X	451	33.871	37.058	30.837	0.00	0.00
ATOM	6823	HD2	PHE	X	451	33.376	36.890	29.892	0.00	0.00
ATOM	6824	C	PHE	X	451	33.553	32.619	29.762	0.00	0.00
ATOM	6825	O	PHE	X	451	33.545	32.967	28.569	0.00	0.00
ATOM	6826	N	GLY	X	452	33.334	31.317	30.074	0.00	0.00
ATOM	6827	H	GLY	X	452	32.883	31.225	30.973	0.00	0.00
ATOM	6828	CA	GLY	X	452	33.071	30.254	29.163	0.00	0.00
ATOM	6829	HA2	GLY	X	452	33.013	29.270	29.627	0.00	0.00
ATOM	6830	HA3	GLY	X	452	32.155	30.448	28.606	0.00	0.00
ATOM	6831	C	GLY	X	452	34.144	30.252	28.031	0.00	0.00
ATOM	6832	O	GLY	X	452	33.789	29.761	26.915	0.00	0.00
ATOM	6833	N	ILE	X	453	35.393	30.632	28.319	0.00	0.00
ATOM	6834	H	ILE	X	453	35.609	30.791	29.293	0.00	0.00
ATOM	6835	CA	ILE	X	453	36.528	30.485	27.414	0.00	0.00
ATOM	6836	HA	ILE	X	453	36.201	31.142	26.607	0.00	0.00
ATOM	6837	CB	ILE	X	453	37.872	31.009	28.111	0.00	0.00
ATOM	6838	HB	ILE	X	453	38.051	30.387	28.988	0.00	0.00
ATOM	6839	CG2	ILE	X	453	38.987	30.840	27.164	0.00	0.00
ATOM	6840	HG21	ILE	X	453	39.015	31.532	26.323	0.00	0.00
ATOM	6841	HG22	ILE	X	453	39.141	29.815	26.825	0.00	0.00
ATOM	6842	HG23	ILE	X	453	39.880	31.072	27.744	0.00	0.00
ATOM	6843	CG1	ILE	X	453	37.861	32.396	28.759	0.00	0.00
ATOM	6844	HG12	ILE	X	453	37.096	32.343	29.533	0.00	0.00
ATOM	6845	HG13	ILE	X	453	38.799	32.692	29.229	0.00	0.00
ATOM	6846	CD1	ILE	X	453	37.513	33.541	27.787	0.00	0.00
ATOM	6847	HD11	ILE	X	453	36.593	33.377	27.226	0.00	0.00
ATOM	6848	HD12	ILE	X	453	38.301	33.546	27.034	0.00	0.00
ATOM	6849	HD13	ILE	X	453	37.432	34.496	28.305	0.00	0.00
ATOM	6850	C	ILE	X	453	36.689	29.101	26.827	0.00	0.00
ATOM	6851	O	ILE	X	453	36.729	29.049	25.616	0.00	0.00
ATOM	6852	N	PRO	X	454	36.707	27.973	27.571	0.00	0.00
ATOM	6853	CD	PRO	X	454	36.747	27.865	29.063	0.00	0.00
ATOM	6854	HD2	PRO	X	454	35.833	28.166	29.574	0.00	0.00
ATOM	6855	HD3	PRO	X	454	37.613	28.450	29.373	0.00	0.00
ATOM	6856	CG	PRO	X	454	36.937	26.364	29.419	0.00	0.00
ATOM	6857	HG2	PRO	X	454	36.491	26.120	30.383	0.00	0.00
ATOM	6858	HG3	PRO	X	454	37.999	26.138	29.516	0.00	0.00

ATOM	6859	CB	PRO	X	454	36.441	25.603	28.213	0.00	0.00
ATOM	6860	HB2	PRO	X	454	35.358	25.503	28.282	0.00	0.00
ATOM	6861	HB3	PRO	X	454	36.897	24.620	28.091	0.00	0.00
ATOM	6862	CA	PRO	X	454	36.672	26.613	27.009	0.00	0.00
ATOM	6863	HA	PRO	X	454	37.708	26.495	26.693	0.00	0.00
ATOM	6864	C	PRO	X	454	35.756	26.260	25.842	0.00	0.00
ATOM	6865	O	PRO	X	454	36.108	25.295	25.168	0.00	0.00
ATOM	6866	N	LEU	X	455	34.673	27.021	25.592	0.00	0.00
ATOM	6867	H	LEU	X	455	34.582	27.897	26.087	0.00	0.00
ATOM	6868	CA	LEU	X	455	33.479	26.460	24.855	0.00	0.00
ATOM	6869	HA	LEU	X	455	33.439	25.395	25.082	0.00	0.00
ATOM	6870	CB	LEU	X	455	32.209	27.005	25.544	0.00	0.00
ATOM	6871	HB2	LEU	X	455	32.039	28.013	25.167	0.00	0.00
ATOM	6872	HB3	LEU	X	455	31.344	26.493	25.121	0.00	0.00
ATOM	6873	CG	LEU	X	455	32.183	26.833	27.107	0.00	0.00
ATOM	6874	HG	LEU	X	455	33.025	27.239	27.668	0.00	0.00
ATOM	6875	CD1	LEU	X	455	30.880	27.509	27.515	0.00	0.00
ATOM	6876	HD11	LEU	X	455	30.714	27.347	28.580	0.00	0.00
ATOM	6877	HD12	LEU	X	455	30.026	27.197	26.914	0.00	0.00
ATOM	6878	HD13	LEU	X	455	31.059	28.582	27.436	0.00	0.00
ATOM	6879	CD2	LEU	X	455	32.149	25.333	27.355	0.00	0.00
ATOM	6880	HD21	LEU	X	455	31.340	25.017	26.696	0.00	0.00
ATOM	6881	HD22	LEU	X	455	33.164	24.966	27.207	0.00	0.00
ATOM	6882	HD23	LEU	X	455	31.921	25.017	28.373	0.00	0.00
ATOM	6883	C	LEU	X	455	33.390	26.586	23.319	0.00	0.00
ATOM	6884	O	LEU	X	455	32.284	26.645	22.812	0.00	0.00
ATOM	6885	N	ASP	X	456	34.551	26.688	22.636	0.00	0.00
ATOM	6886	H	ASP	X	456	35.430	26.449	23.072	0.00	0.00
ATOM	6887	CA	ASP	X	456	34.601	26.752	21.153	0.00	0.00
ATOM	6888	HA	ASP	X	456	33.630	26.668	20.665	0.00	0.00
ATOM	6889	CB	ASP	X	456	35.241	28.103	20.735	0.00	0.00
ATOM	6890	HB2	ASP	X	456	34.657	28.951	21.092	0.00	0.00
ATOM	6891	HB3	ASP	X	456	36.229	28.096	21.194	0.00	0.00
ATOM	6892	CG	ASP	X	456	35.208	28.228	19.210	0.00	0.00
ATOM	6893	OD1	ASP	X	456	36.078	27.698	18.489	0.00	0.00
ATOM	6894	OD2	ASP	X	456	34.188	28.791	18.697	0.00	0.00
ATOM	6895	C	ASP	X	456	35.523	25.517	20.622	0.00	0.00
ATOM	6896	O	ASP	X	456	36.546	25.208	21.257	0.00	0.00
ATOM	6897	N	PRO	X	457	35.083	24.808	19.548	0.00	0.00
ATOM	6898	CD	PRO	X	457	33.778	24.856	18.933	0.00	0.00
ATOM	6899	HD2	PRO	X	457	33.809	25.560	18.101	0.00	0.00
ATOM	6900	HD3	PRO	X	457	32.996	25.160	19.628	0.00	0.00
ATOM	6901	CG	PRO	X	457	33.568	23.484	18.367	0.00	0.00
ATOM	6902	HG2	PRO	X	457	32.813	23.441	17.582	0.00	0.00
ATOM	6903	HG3	PRO	X	457	33.204	22.939	19.238	0.00	0.00
ATOM	6904	CB	PRO	X	457	34.962	23.007	17.977	0.00	0.00
ATOM	6905	HB2	PRO	X	457	35.324	23.416	17.034	0.00	0.00
ATOM	6906	HB3	PRO	X	457	35.103	21.930	18.072	0.00	0.00
ATOM	6907	CA	PRO	X	457	35.802	23.623	19.038	0.00	0.00
ATOM	6908	HA	PRO	X	457	35.837	22.936	19.884	0.00	0.00
ATOM	6909	C	PRO	X	457	37.299	23.894	18.542	0.00	0.00
ATOM	6910	O	PRO	X	457	38.100	22.972	18.467	0.00	0.00
ATOM	6911	N	SER	X	458	37.703	25.137	18.313	0.00	0.00
ATOM	6912	H	SER	X	458	37.011	25.847	18.505	0.00	0.00
ATOM	6913	CA	SER	X	458	39.087	25.488	17.926	0.00	0.00
ATOM	6914	HA	SER	X	458	39.421	24.754	17.192	0.00	0.00
ATOM	6915	CB	SER	X	458	39.077	26.918	17.342	0.00	0.00
ATOM	6916	HB2	SER	X	458	40.083	27.066	16.949	0.00	0.00
ATOM	6917	HB3	SER	X	458	38.401	27.030	16.495	0.00	0.00
ATOM	6918	OG	SER	X	458	38.673	27.864	18.331	0.00	0.00
ATOM	6919	HG	SER	X	458	37.734	27.683	18.414	0.00	0.00
ATOM	6920	C	SER	X	458	40.141	25.366	19.048	0.00	0.00
ATOM	6921	O	SER	X	458	41.340	25.262	18.799	0.00	0.00
ATOM	6922	N	ARG	X	459	39.693	25.450	20.285	0.00	0.00
ATOM	6923	H	ARG	X	459	38.693	25.465	20.428	0.00	0.00
ATOM	6924	CA	ARG	X	459	40.443	25.636	21.520	0.00	0.00
ATOM	6925	HA	ARG	X	459	41.147	26.464	21.435	0.00	0.00

ATOM	6926	CB	ARG	X	459	39.450	25.899	22.746	0.00	0.00
ATOM	6927	HB2	ARG	X	459	38.766	25.054	22.826	0.00	0.00
ATOM	6928	HB3	ARG	X	459	39.902	25.938	23.738	0.00	0.00
ATOM	6929	CG	ARG	X	459	38.676	27.191	22.460	0.00	0.00
ATOM	6930	HG2	ARG	X	459	38.241	27.275	21.464	0.00	0.00
ATOM	6931	HG3	ARG	X	459	37.776	27.306	23.065	0.00	0.00
ATOM	6932	CD	ARG	X	459	39.504	28.521	22.423	0.00	0.00
ATOM	6933	HD2	ARG	X	459	40.132	28.492	23.314	0.00	0.00
ATOM	6934	HD3	ARG	X	459	40.156	28.569	21.551	0.00	0.00
ATOM	6935	NE	ARG	X	459	38.686	29.839	22.436	0.00	0.00
ATOM	6936	HE	ARG	X	459	37.705	29.730	22.650	0.00	0.00
ATOM	6937	CZ	ARG	X	459	39.207	31.033	22.660	0.00	0.00
ATOM	6938	NH1	ARG	X	459	40.517	31.171	22.550	0.00	0.00
ATOM	6939	HH11	ARG	X	459	40.982	30.360	22.169	0.00	0.00
ATOM	6940	HH12	ARG	X	459	40.996	31.998	22.877	0.00	0.00
ATOM	6941	NH2	ARG	X	459	38.526	32.103	22.864	0.00	0.00
ATOM	6942	HH21	ARG	X	459	37.549	31.925	23.049	0.00	0.00
ATOM	6943	HH22	ARG	X	459	38.885	33.043	22.772	0.00	0.00
ATOM	6944	C	ARG	X	459	41.275	24.396	21.994	0.00	0.00
ATOM	6945	O	ARG	X	459	40.904	23.262	21.691	0.00	0.00
ATOM	6946	N	ASN	X	460	42.404	24.599	22.652	0.00	0.00
ATOM	6947	H	ASN	X	460	42.542	25.574	22.875	0.00	0.00
ATOM	6948	CA	ASN	X	460	43.169	23.562	23.336	0.00	0.00
ATOM	6949	HA	ASN	X	460	43.381	22.838	22.549	0.00	0.00
ATOM	6950	CB	ASN	X	460	44.575	24.122	23.812	0.00	0.00
ATOM	6951	HB2	ASN	X	460	45.107	24.588	22.983	0.00	0.00
ATOM	6952	HB3	ASN	X	460	44.309	24.905	24.522	0.00	0.00
ATOM	6953	CG	ASN	X	460	45.414	23.100	24.415	0.00	0.00
ATOM	6954	OD1	ASN	X	460	45.857	22.157	23.710	0.00	0.00
ATOM	6955	ND2	ASN	X	460	45.674	23.212	25.707	0.00	0.00
ATOM	6956	HD21	ASN	X	460	46.169	22.455	26.157	0.00	0.00
ATOM	6957	HD22	ASN	X	460	45.301	23.974	26.255	0.00	0.00
ATOM	6958	C	ASN	X	460	42.380	22.830	24.485	0.00	0.00
ATOM	6959	O	ASN	X	460	42.626	21.641	24.645	0.00	0.00
ATOM	6960	N	TYR	X	461	41.510	23.646	25.226	0.00	0.00
ATOM	6961	H	TYR	X	461	41.486	24.585	24.856	0.00	0.00
ATOM	6962	CA	TYR	X	461	40.609	23.197	26.286	0.00	0.00
ATOM	6963	HA	TYR	X	461	41.053	22.991	27.260	0.00	0.00
ATOM	6964	CB	TYR	X	461	39.640	24.294	26.646	0.00	0.00
ATOM	6965	HB2	TYR	X	461	39.372	24.747	25.691	0.00	0.00
ATOM	6966	HB3	TYR	X	461	38.762	23.789	27.050	0.00	0.00
ATOM	6967	CG	TYR	X	461	40.189	25.372	27.697	0.00	0.00
ATOM	6968	CD1	TYR	X	461	40.191	26.739	27.320	0.00	0.00
ATOM	6969	HD1	TYR	X	461	39.851	27.003	26.329	0.00	0.00
ATOM	6970	CE1	TYR	X	461	40.604	27.651	28.286	0.00	0.00
ATOM	6971	HE1	TYR	X	461	40.593	28.725	28.175	0.00	0.00
ATOM	6972	CZ	TYR	X	461	40.846	27.207	29.687	0.00	0.00
ATOM	6973	OH	TYR	X	461	41.094	28.205	30.578	0.00	0.00
ATOM	6974	HH	TYR	X	461	41.300	27.870	31.453	0.00	0.00
ATOM	6975	CE2	TYR	X	461	40.900	25.870	29.954	0.00	0.00
ATOM	6976	HE2	TYR	X	461	41.255	25.569	30.928	0.00	0.00
ATOM	6977	CD2	TYR	X	461	40.581	24.986	28.970	0.00	0.00
ATOM	6978	HD2	TYR	X	461	40.582	23.929	29.192	0.00	0.00
ATOM	6979	C	TYR	X	461	39.818	21.985	25.786	0.00	0.00
ATOM	6980	O	TYR	X	461	39.097	21.980	24.780	0.00	0.00
ATOM	6981	N	THR	X	462	39.765	20.921	26.542	0.00	0.00
ATOM	6982	H	THR	X	462	40.137	21.113	27.461	0.00	0.00
ATOM	6983	CA	THR	X	462	39.492	19.488	26.261	0.00	0.00
ATOM	6984	HA	THR	X	462	39.705	19.379	25.198	0.00	0.00
ATOM	6985	CB	THR	X	462	40.302	18.492	27.065	0.00	0.00
ATOM	6986	HB	THR	X	462	39.952	17.483	26.847	0.00	0.00
ATOM	6987	CG2	THR	X	462	41.781	18.632	26.646	0.00	0.00
ATOM	6988	HG21	THR	X	462	41.903	18.618	25.563	0.00	0.00
ATOM	6989	HG22	THR	X	462	42.411	17.904	27.158	0.00	0.00
ATOM	6990	HG23	THR	X	462	42.183	19.582	26.997	0.00	0.00
ATOM	6991	OG1	THR	X	462	40.112	18.671	28.399	0.00	0.00
ATOM	6992	HG1	THR	X	462	40.325	19.594	28.556	0.00	0.00

ATOM	6993	C	THR	X	462	37.963	19.234	26.366	0.00	0.00
ATOM	6994	O	THR	X	462	37.291	19.977	26.993	0.00	0.00
ATOM	6995	N	ALA	X	463	37.443	18.144	25.843	0.00	0.00
ATOM	6996	H	ALA	X	463	37.986	17.563	25.220	0.00	0.00
ATOM	6997	CA	ALA	X	463	36.052	17.738	25.846	0.00	0.00
ATOM	6998	HA	ALA	X	463	35.573	18.463	25.188	0.00	0.00
ATOM	6999	CB	ALA	X	463	35.886	16.374	25.162	0.00	0.00
ATOM	7000	HB1	ALA	X	463	34.859	16.228	24.828	0.00	0.00
ATOM	7001	HB2	ALA	X	463	36.087	15.514	25.801	0.00	0.00
ATOM	7002	HB3	ALA	X	463	36.520	16.322	24.277	0.00	0.00
ATOM	7003	C	ALA	X	463	35.409	17.960	27.197	0.00	0.00
ATOM	7004	O	ALA	X	463	34.349	18.560	27.326	0.00	0.00
ATOM	7005	N	GLU	X	464	36.038	17.382	28.213	0.00	0.00
ATOM	7006	H	GLU	X	464	36.863	16.811	28.100	0.00	0.00
ATOM	7007	CA	GLU	X	464	35.517	17.402	29.585	0.00	0.00
ATOM	7008	HA	GLU	X	464	34.442	17.226	29.545	0.00	0.00
ATOM	7009	CB	GLU	X	464	36.123	16.249	30.404	0.00	0.00
ATOM	7010	HB2	GLU	X	464	35.466	16.377	31.265	0.00	0.00
ATOM	7011	HB3	GLU	X	464	35.952	15.250	30.005	0.00	0.00
ATOM	7012	CG	GLU	X	464	37.648	16.355	30.782	0.00	0.00
ATOM	7013	HG2	GLU	X	464	37.965	17.389	30.644	0.00	0.00
ATOM	7014	HG3	GLU	X	464	37.772	16.029	31.815	0.00	0.00
ATOM	7015	CD	GLU	X	464	38.520	15.467	29.881	0.00	0.00
ATOM	7016	OE1	GLU	X	464	38.289	15.677	28.656	0.00	0.00
ATOM	7017	OE2	GLU	X	464	39.446	14.718	30.286	0.00	0.00
ATOM	7018	C	GLU	X	464	35.588	18.830	30.299	0.00	0.00
ATOM	7019	O	GLU	X	464	34.715	19.068	31.136	0.00	0.00
ATOM	7020	N	GLU	X	465	36.466	19.735	29.865	0.00	0.00
ATOM	7021	H	GLU	X	465	36.956	19.587	28.995	0.00	0.00
ATOM	7022	CA	GLU	X	465	36.643	21.029	30.525	0.00	0.00
ATOM	7023	HA	GLU	X	465	36.527	20.933	31.604	0.00	0.00
ATOM	7024	CB	GLU	X	465	38.014	21.573	30.158	0.00	0.00
ATOM	7025	HB2	GLU	X	465	38.174	21.228	29.136	0.00	0.00
ATOM	7026	HB3	GLU	X	465	37.979	22.661	30.108	0.00	0.00
ATOM	7027	CG	GLU	X	465	39.175	21.082	31.051	0.00	0.00
ATOM	7028	HG2	GLU	X	465	39.208	21.717	31.936	0.00	0.00
ATOM	7029	HG3	GLU	X	465	39.066	20.045	31.369	0.00	0.00
ATOM	7030	CD	GLU	X	465	40.535	21.335	30.366	0.00	0.00
ATOM	7031	OE1	GLU	X	465	40.662	21.137	29.173	0.00	0.00
ATOM	7032	OE2	GLU	X	465	41.474	21.798	31.047	0.00	0.00
ATOM	7033	C	GLU	X	465	35.520	21.895	30.001	0.00	0.00
ATOM	7034	O	GLU	X	465	34.995	22.793	30.693	0.00	0.00
ATOM	7035	N	LYS	X	466	34.894	21.555	28.847	0.00	0.00
ATOM	7036	H	LYS	X	466	35.154	20.754	28.289	0.00	0.00
ATOM	7037	CA	LYS	X	466	33.766	22.371	28.338	0.00	0.00
ATOM	7038	HA	LYS	X	466	34.034	23.425	28.419	0.00	0.00
ATOM	7039	CB	LYS	X	466	33.498	22.099	26.896	0.00	0.00
ATOM	7040	HB2	LYS	X	466	33.243	21.057	26.700	0.00	0.00
ATOM	7041	HB3	LYS	X	466	32.589	22.551	26.497	0.00	0.00
ATOM	7042	CG	LYS	X	466	34.700	22.428	25.986	0.00	0.00
ATOM	7043	HG2	LYS	X	466	34.778	23.512	25.901	0.00	0.00
ATOM	7044	HG3	LYS	X	466	35.594	21.972	26.412	0.00	0.00
ATOM	7045	CD	LYS	X	466	34.553	21.784	24.639	0.00	0.00
ATOM	7046	HD2	LYS	X	466	34.317	20.724	24.736	0.00	0.00
ATOM	7047	HD3	LYS	X	466	33.709	22.236	24.119	0.00	0.00
ATOM	7048	CE	LYS	X	466	35.737	22.005	23.764	0.00	0.00
ATOM	7049	HE2	LYS	X	466	35.978	23.059	23.627	0.00	0.00
ATOM	7050	HE3	LYS	X	466	36.648	21.579	24.184	0.00	0.00
ATOM	7051	NZ	LYS	X	466	35.570	21.477	22.368	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	36.329	21.784	21.776	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	35.678	20.473	22.380	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	34.669	21.768	22.017	0.00	0.00
ATOM	7055	C	LYS	X	466	32.560	22.071	29.206	0.00	0.00
ATOM	7056	O	LYS	X	466	31.744	22.960	29.564	0.00	0.00
ATOM	7057	N	ILE	X	467	32.449	20.869	29.747	0.00	0.00
ATOM	7058	H	ILE	X	467	33.193	20.199	29.618	0.00	0.00
ATOM	7059	CA	ILE	X	467	31.325	20.416	30.623	0.00	0.00

ATOM	7060	HA	ILE	X	467	30.367	20.646	30.158	0.00	0.00
ATOM	7061	CB	ILE	X	467	31.299	18.859	30.822	0.00	0.00
ATOM	7062	HB	ILE	X	467	32.189	18.534	31.360	0.00	0.00
ATOM	7063	CG2	ILE	X	467	30.083	18.392	31.637	0.00	0.00
ATOM	7064	HG21	ILE	X	467	29.136	18.704	31.196	0.00	0.00
ATOM	7065	HG22	ILE	X	467	30.079	18.778	32.656	0.00	0.00
ATOM	7066	HG23	ILE	X	467	29.987	17.306	31.620	0.00	0.00
ATOM	7067	CG1	ILE	X	467	31.392	18.075	29.453	0.00	0.00
ATOM	7068	HG12	ILE	X	467	32.443	18.094	29.164	0.00	0.00
ATOM	7069	HG13	ILE	X	467	31.052	17.072	29.708	0.00	0.00
ATOM	7070	CD1	ILE	X	467	30.583	18.646	28.279	0.00	0.00
ATOM	7071	HD11	ILE	X	467	30.565	17.967	27.426	0.00	0.00
ATOM	7072	HD12	ILE	X	467	31.116	19.530	27.928	0.00	0.00
ATOM	7073	HD13	ILE	X	467	29.538	18.859	28.503	0.00	0.00
ATOM	7074	C	ILE	X	467	31.378	21.071	32.007	0.00	0.00
ATOM	7075	O	ILE	X	467	30.446	21.706	32.419	0.00	0.00
ATOM	7076	N	PHE	X	468	32.527	21.000	32.670	0.00	0.00
ATOM	7077	H	PHE	X	468	33.201	20.459	32.147	0.00	0.00
ATOM	7078	CA	PHE	X	468	32.912	21.733	33.859	0.00	0.00
ATOM	7079	HA	PHE	X	468	32.324	21.281	34.658	0.00	0.00
ATOM	7080	CB	PHE	X	468	34.366	21.560	34.139	0.00	0.00
ATOM	7081	HB2	PHE	X	468	34.629	20.509	34.023	0.00	0.00
ATOM	7082	HB3	PHE	X	468	34.874	21.962	33.263	0.00	0.00
ATOM	7083	CG	PHE	X	468	34.930	22.088	35.449	0.00	0.00
ATOM	7084	CD1	PHE	X	468	34.072	22.205	36.533	0.00	0.00
ATOM	7085	HD1	PHE	X	468	33.029	21.927	36.567	0.00	0.00
ATOM	7086	CE1	PHE	X	468	34.584	22.597	37.787	0.00	0.00
ATOM	7087	HE1	PHE	X	468	34.002	22.728	38.688	0.00	0.00
ATOM	7088	CZ	PHE	X	468	35.952	22.920	37.841	0.00	0.00
ATOM	7089	HZ	PHE	X	468	36.482	23.206	38.737	0.00	0.00
ATOM	7090	CE2	PHE	X	468	36.780	22.833	36.732	0.00	0.00
ATOM	7091	HE2	PHE	X	468	37.825	23.096	36.805	0.00	0.00
ATOM	7092	CD2	PHE	X	468	36.244	22.482	35.509	0.00	0.00
ATOM	7093	HD2	PHE	X	468	36.971	22.421	34.712	0.00	0.00
ATOM	7094	C	PHE	X	468	32.585	23.234	33.765	0.00	0.00
ATOM	7095	O	PHE	X	468	31.880	23.850	34.552	0.00	0.00
ATOM	7096	N	ALA	X	469	32.974	23.850	32.644	0.00	0.00
ATOM	7097	H	ALA	X	469	33.449	23.342	31.912	0.00	0.00
ATOM	7098	CA	ALA	X	469	32.757	25.218	32.348	0.00	0.00
ATOM	7099	HA	ALA	X	469	33.096	25.963	33.067	0.00	0.00
ATOM	7100	CB	ALA	X	469	33.384	25.499	31.030	0.00	0.00
ATOM	7101	HB1	ALA	X	469	33.348	26.562	30.790	0.00	0.00
ATOM	7102	HB2	ALA	X	469	32.895	24.892	30.269	0.00	0.00
ATOM	7103	HB3	ALA	X	469	34.466	25.386	31.102	0.00	0.00
ATOM	7104	C	ALA	X	469	31.195	25.592	32.377	0.00	0.00
ATOM	7105	O	ALA	X	469	30.833	26.514	33.042	0.00	0.00
ATOM	7106	N	GLN	X	470	30.306	24.894	31.637	0.00	0.00
ATOM	7107	H	GLN	X	470	30.693	24.152	31.071	0.00	0.00
ATOM	7108	CA	GLN	X	470	28.904	25.168	31.484	0.00	0.00
ATOM	7109	HA	GLN	X	470	28.748	26.216	31.229	0.00	0.00
ATOM	7110	CB	GLN	X	470	28.322	24.280	30.367	0.00	0.00
ATOM	7111	HB2	GLN	X	470	28.725	23.268	30.410	0.00	0.00
ATOM	7112	HB3	GLN	X	470	27.237	24.298	30.466	0.00	0.00
ATOM	7113	CG	GLN	X	470	28.659	24.719	28.919	0.00	0.00
ATOM	7114	HG2	GLN	X	470	28.473	25.772	28.709	0.00	0.00
ATOM	7115	HG3	GLN	X	470	29.743	24.634	28.845	0.00	0.00
ATOM	7116	CD	GLN	X	470	28.041	23.905	27.785	0.00	0.00
ATOM	7117	OE1	GLN	X	470	28.668	23.064	27.165	0.00	0.00
ATOM	7118	NE2	GLN	X	470	26.750	24.038	27.578	0.00	0.00
ATOM	7119	HE21	GLN	X	470	26.296	23.337	27.011	0.00	0.00
ATOM	7120	HE22	GLN	X	470	26.166	24.675	28.100	0.00	0.00
ATOM	7121	C	GLN	X	470	28.054	25.020	32.774	0.00	0.00
ATOM	7122	O	GLN	X	470	27.062	25.754	32.856	0.00	0.00
ATOM	7123	N	ARG	X	471	28.458	24.125	33.713	0.00	0.00
ATOM	7124	H	ARG	X	471	29.244	23.532	33.491	0.00	0.00
ATOM	7125	CA	ARG	X	471	27.888	23.999	35.123	0.00	0.00
ATOM	7126	HA	ARG	X	471	26.877	24.391	35.022	0.00	0.00

ATOM	7127	CB	ARG	X	471	28.088	22.581	35.618	0.00	0.00
ATOM	7128	HB2	ARG	X	471	27.689	22.585	36.632	0.00	0.00
ATOM	7129	HB3	ARG	X	471	27.476	21.907	35.019	0.00	0.00
ATOM	7130	CG	ARG	X	471	29.505	22.114	35.755	0.00	0.00
ATOM	7131	HG2	ARG	X	471	29.939	22.174	34.757	0.00	0.00
ATOM	7132	HG3	ARG	X	471	30.011	22.758	36.475	0.00	0.00
ATOM	7133	CD	ARG	X	471	29.574	20.679	36.218	0.00	0.00
ATOM	7134	HD2	ARG	X	471	28.805	20.121	35.684	0.00	0.00
ATOM	7135	HD3	ARG	X	471	30.568	20.279	36.021	0.00	0.00
ATOM	7136	NE	ARG	X	471	29.406	20.644	37.686	0.00	0.00
ATOM	7137	HE	ARG	X	471	28.443	20.620	37.990	0.00	0.00
ATOM	7138	CZ	ARG	X	471	30.345	20.504	38.562	0.00	0.00
ATOM	7139	NH1	ARG	X	471	31.594	20.459	38.282	0.00	0.00
ATOM	7140	HH11	ARG	X	471	31.989	20.275	37.371	0.00	0.00
ATOM	7141	HH12	ARG	X	471	32.279	20.300	39.008	0.00	0.00
ATOM	7142	NH2	ARG	X	471	30.012	20.439	39.822	0.00	0.00
ATOM	7143	HH21	ARG	X	471	29.071	20.595	40.156	0.00	0.00
ATOM	7144	HH22	ARG	X	471	30.724	20.175	40.488	0.00	0.00
ATOM	7145	C	ARG	X	471	28.537	25.084	36.098	0.00	0.00
ATOM	7146	O	ARG	X	471	27.745	25.641	36.832	0.00	0.00
ATOM	7147	N	LEU	X	472	29.790	25.524	35.942	0.00	0.00
ATOM	7148	H	LEU	X	472	30.442	25.060	35.325	0.00	0.00
ATOM	7149	CA	LEU	X	472	30.366	26.683	36.679	0.00	0.00
ATOM	7150	HA	LEU	X	472	30.136	26.372	37.698	0.00	0.00
ATOM	7151	CB	LEU	X	472	31.840	26.811	36.475	0.00	0.00
ATOM	7152	HB2	LEU	X	472	31.983	27.112	35.438	0.00	0.00
ATOM	7153	HB3	LEU	X	472	32.095	27.744	36.979	0.00	0.00
ATOM	7154	CG	LEU	X	472	32.724	25.708	37.171	0.00	0.00
ATOM	7155	HG	LEU	X	472	32.370	24.740	36.815	0.00	0.00
ATOM	7156	CD1	LEU	X	472	34.185	25.881	36.652	0.00	0.00
ATOM	7157	HD11	LEU	X	472	34.361	25.302	35.745	0.00	0.00
ATOM	7158	HD12	LEU	X	472	34.901	25.425	37.335	0.00	0.00
ATOM	7159	HD13	LEU	X	472	34.314	26.930	36.388	0.00	0.00
ATOM	7160	CD2	LEU	X	472	32.639	25.569	38.712	0.00	0.00
ATOM	7161	HD21	LEU	X	472	33.245	24.704	38.982	0.00	0.00
ATOM	7162	HD22	LEU	X	472	32.932	26.517	39.162	0.00	0.00
ATOM	7163	HD23	LEU	X	472	31.622	25.375	39.054	0.00	0.00
ATOM	7164	C	LEU	X	472	29.636	28.022	36.324	0.00	0.00
ATOM	7165	O	LEU	X	472	29.130	28.686	37.197	0.00	0.00
ATOM	7166	N	MET	X	473	29.476	28.206	35.002	0.00	0.00
ATOM	7167	H	MET	X	473	29.983	27.578	34.395	0.00	0.00
ATOM	7168	CA	MET	X	473	28.678	29.362	34.494	0.00	0.00
ATOM	7169	HA	MET	X	473	29.200	30.260	34.827	0.00	0.00
ATOM	7170	CB	MET	X	473	28.614	29.288	32.988	0.00	0.00
ATOM	7171	HB2	MET	X	473	28.182	28.376	32.577	0.00	0.00
ATOM	7172	HB3	MET	X	473	28.032	30.150	32.662	0.00	0.00
ATOM	7173	CG	MET	X	473	29.973	29.519	32.288	0.00	0.00
ATOM	7174	HG2	MET	X	473	30.235	30.574	32.365	0.00	0.00
ATOM	7175	HG3	MET	X	473	30.775	29.014	32.827	0.00	0.00
ATOM	7176	SD	MET	X	473	29.907	29.110	30.605	0.00	0.00
ATOM	7177	CE	MET	X	473	28.922	30.519	30.072	0.00	0.00
ATOM	7178	HE1	MET	X	473	28.633	30.419	29.025	0.00	0.00
ATOM	7179	HE2	MET	X	473	27.970	30.735	30.557	0.00	0.00
ATOM	7180	HE3	MET	X	473	29.623	31.331	30.266	0.00	0.00
ATOM	7181	C	MET	X	473	27.281	29.306	35.036	0.00	0.00
ATOM	7182	O	MET	X	473	26.786	30.387	35.485	0.00	0.00
ATOM	7183	N	ARG	X	474	26.635	28.153	34.969	0.00	0.00
ATOM	7184	H	ARG	X	474	27.123	27.333	34.637	0.00	0.00
ATOM	7185	CA	ARG	X	474	25.266	27.969	35.414	0.00	0.00
ATOM	7186	HA	ARG	X	474	24.660	28.689	34.864	0.00	0.00
ATOM	7187	CB	ARG	X	474	24.772	26.552	34.954	0.00	0.00
ATOM	7188	HB2	ARG	X	474	25.061	26.376	33.918	0.00	0.00
ATOM	7189	HB3	ARG	X	474	25.111	25.820	35.687	0.00	0.00
ATOM	7190	CG	ARG	X	474	23.208	26.483	34.977	0.00	0.00
ATOM	7191	HG2	ARG	X	474	22.964	25.436	34.794	0.00	0.00
ATOM	7192	HG3	ARG	X	474	22.809	26.552	35.989	0.00	0.00
ATOM	7193	CD	ARG	X	474	22.422	27.447	34.099	0.00	0.00

ATOM	7194	HD2	ARG	X	474	22.572	28.485	34.395	0.00	0.00
ATOM	7195	HD3	ARG	X	474	22.692	27.306	33.052	0.00	0.00
ATOM	7196	NE	ARG	X	474	20.967	27.196	34.145	0.00	0.00
ATOM	7197	HE	ARG	X	474	20.542	26.720	34.929	0.00	0.00
ATOM	7198	CZ	ARG	X	474	20.088	27.451	33.225	0.00	0.00
ATOM	7199	NH1	ARG	X	474	20.326	28.151	32.156	0.00	0.00
ATOM	7200	HH11	ARG	X	474	21.193	28.648	32.009	0.00	0.00
ATOM	7201	HH12	ARG	X	474	19.583	28.252	31.480	0.00	0.00
ATOM	7202	NH2	ARG	X	474	18.874	27.047	33.441	0.00	0.00
ATOM	7203	HH21	ARG	X	474	18.698	26.384	34.182	0.00	0.00
ATOM	7204	HH22	ARG	X	474	18.093	27.235	32.829	0.00	0.00
ATOM	7205	C	ARG	X	474	25.066	28.188	36.899	0.00	0.00
ATOM	7206	O	ARG	X	474	24.075	28.732	37.278	0.00	0.00
ATOM	7207	N	TYR	X	475	26.015	27.892	37.784	0.00	0.00
ATOM	7208	H	TYR	X	475	26.886	27.493	37.464	0.00	0.00
ATOM	7209	CA	TYR	X	475	25.995	28.220	39.180	0.00	0.00
ATOM	7210	HA	TYR	X	475	24.989	27.909	39.463	0.00	0.00
ATOM	7211	CB	TYR	X	475	27.130	27.454	39.834	0.00	0.00
ATOM	7212	HB2	TYR	X	475	28.080	27.761	39.395	0.00	0.00
ATOM	7213	HB3	TYR	X	475	27.166	27.713	40.892	0.00	0.00
ATOM	7214	CG	TYR	X	475	27.113	25.950	39.834	0.00	0.00
ATOM	7215	CD1	TYR	X	475	25.942	25.208	39.909	0.00	0.00
ATOM	7216	HD1	TYR	X	475	24.954	25.642	39.871	0.00	0.00
ATOM	7217	CE1	TYR	X	475	26.067	23.817	40.059	0.00	0.00
ATOM	7218	HE1	TYR	X	475	25.149	23.249	40.061	0.00	0.00
ATOM	7219	CZ	TYR	X	475	27.314	23.135	40.192	0.00	0.00
ATOM	7220	OH	TYR	X	475	27.295	21.800	40.320	0.00	0.00
ATOM	7221	HH	TYR	X	475	26.402	21.515	40.522	0.00	0.00
ATOM	7222	CE2	TYR	X	475	28.502	23.933	39.992	0.00	0.00
ATOM	7223	HE2	TYR	X	475	29.510	23.555	40.086	0.00	0.00
ATOM	7224	CD2	TYR	X	475	28.356	25.302	39.823	0.00	0.00
ATOM	7225	HD2	TYR	X	475	29.262	25.837	39.582	0.00	0.00
ATOM	7226	C	TYR	X	475	26.072	29.825	39.397	0.00	0.00
ATOM	7227	O	TYR	X	475	25.304	30.317	40.155	0.00	0.00
ATOM	7228	N	TRP	X	476	26.876	30.606	38.674	0.00	0.00
ATOM	7229	H	TRP	X	476	27.631	30.222	38.124	0.00	0.00
ATOM	7230	CA	TRP	X	476	26.970	32.081	38.921	0.00	0.00
ATOM	7231	HA	TRP	X	476	26.918	32.361	39.973	0.00	0.00
ATOM	7232	CB	TRP	X	476	28.213	32.612	38.332	0.00	0.00
ATOM	7233	HB2	TRP	X	476	28.264	32.281	37.295	0.00	0.00
ATOM	7234	HB3	TRP	X	476	27.920	33.655	38.218	0.00	0.00
ATOM	7235	CG	TRP	X	476	29.523	32.573	39.061	0.00	0.00
ATOM	7236	CD1	TRP	X	476	30.449	33.644	39.002	0.00	0.00
ATOM	7237	HD1	TRP	X	476	30.258	34.484	38.351	0.00	0.00
ATOM	7238	NE1	TRP	X	476	31.641	33.195	39.562	0.00	0.00
ATOM	7239	HE1	TRP	X	476	32.490	33.741	39.519	0.00	0.00
ATOM	7240	CE2	TRP	X	476	31.452	31.981	40.171	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	32.362	31.169	40.993	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	33.320	31.583	41.268	0.00	0.00
ATOM	7243	CH2	TRP	X	476	31.970	29.872	41.345	0.00	0.00
ATOM	7244	HH2	TRP	X	476	32.688	29.295	41.909	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	30.678	29.391	40.903	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	30.439	28.353	41.084	0.00	0.00
ATOM	7247	CE3	TRP	X	476	29.842	30.148	40.076	0.00	0.00
ATOM	7248	HE3	TRP	X	476	28.888	29.762	39.750	0.00	0.00
ATOM	7249	CD2	TRP	X	476	30.171	31.508	39.775	0.00	0.00
ATOM	7250	C	TRP	X	476	25.726	32.695	38.258	0.00	0.00
ATOM	7251	O	TRP	X	476	25.061	33.465	38.894	0.00	0.00
ATOM	7252	N	ALA	X	477	25.258	32.287	37.096	0.00	0.00
ATOM	7253	H	ALA	X	477	25.816	31.604	36.604	0.00	0.00
ATOM	7254	CA	ALA	X	477	23.904	32.707	36.570	0.00	0.00
ATOM	7255	HA	ALA	X	477	23.953	33.773	36.347	0.00	0.00
ATOM	7256	CB	ALA	X	477	23.695	32.093	35.184	0.00	0.00
ATOM	7257	HB1	ALA	X	477	23.477	31.083	35.529	0.00	0.00
ATOM	7258	HB2	ALA	X	477	24.661	32.014	34.684	0.00	0.00
ATOM	7259	HB3	ALA	X	477	22.799	32.453	34.680	0.00	0.00
ATOM	7260	C	ALA	X	477	22.710	32.365	37.414	0.00	0.00

ATOM	7261	O	ALA	X	477	21.726	33.125	37.501	0.00	0.00
ATOM	7262	N	ASN	X	478	22.676	31.176	38.068	0.00	0.00
ATOM	7263	H	ASN	X	478	23.267	30.409	37.782	0.00	0.00
ATOM	7264	CA	ASN	X	478	21.545	30.864	38.960	0.00	0.00
ATOM	7265	HA	ASN	X	478	20.686	31.133	38.345	0.00	0.00
ATOM	7266	CB	ASN	X	478	21.545	29.345	39.173	0.00	0.00
ATOM	7267	HB2	ASN	X	478	22.413	28.949	39.700	0.00	0.00
ATOM	7268	HB3	ASN	X	478	20.794	29.028	39.895	0.00	0.00
ATOM	7269	CG	ASN	X	478	21.189	28.442	38.000	0.00	0.00
ATOM	7270	OD1	ASN	X	478	20.607	28.933	37.019	0.00	0.00
ATOM	7271	ND2	ASN	X	478	21.239	27.162	38.245	0.00	0.00
ATOM	7272	HD21	ASN	X	478	20.769	26.504	37.640	0.00	0.00
ATOM	7273	HD22	ASN	X	478	21.715	26.806	39.062	0.00	0.00
ATOM	7274	C	ASN	X	478	21.511	31.661	40.313	0.00	0.00
ATOM	7275	O	ASN	X	478	20.467	32.281	40.658	0.00	0.00
ATOM	7276	N	PHE	X	479	22.644	31.741	41.024	0.00	0.00
ATOM	7277	H	PHE	X	479	23.393	31.116	40.767	0.00	0.00
ATOM	7278	CA	PHE	X	479	22.897	32.685	42.093	0.00	0.00
ATOM	7279	HA	PHE	X	479	22.265	32.520	42.966	0.00	0.00
ATOM	7280	CB	PHE	X	479	24.388	32.603	42.511	0.00	0.00
ATOM	7281	HB2	PHE	X	479	24.578	31.668	43.037	0.00	0.00
ATOM	7282	HB3	PHE	X	479	25.084	32.590	41.672	0.00	0.00
ATOM	7283	CG	PHE	X	479	24.736	33.807	43.399	0.00	0.00
ATOM	7284	CD1	PHE	X	479	24.675	33.611	44.794	0.00	0.00
ATOM	7285	HD1	PHE	X	479	24.356	32.643	45.153	0.00	0.00
ATOM	7286	CE1	PHE	X	479	25.120	34.675	45.657	0.00	0.00
ATOM	7287	HE1	PHE	X	479	25.042	34.594	46.731	0.00	0.00
ATOM	7288	CZ	PHE	X	479	25.476	35.920	45.069	0.00	0.00
ATOM	7289	HZ	PHE	X	479	25.812	36.750	45.674	0.00	0.00
ATOM	7290	CE2	PHE	X	479	25.556	35.997	43.718	0.00	0.00
ATOM	7291	HE2	PHE	X	479	25.987	36.915	43.347	0.00	0.00
ATOM	7292	CD2	PHE	X	479	25.273	34.957	42.837	0.00	0.00
ATOM	7293	HD2	PHE	X	479	25.464	35.008	41.775	0.00	0.00
ATOM	7294	C	PHE	X	479	22.495	34.128	41.606	0.00	0.00
ATOM	7295	O	PHE	X	479	21.916	34.916	42.377	0.00	0.00
ATOM	7296	N	ALA	X	480	22.842	34.613	40.423	0.00	0.00
ATOM	7297	H	ALA	X	480	23.442	34.052	39.835	0.00	0.00
ATOM	7298	CA	ALA	X	480	22.503	35.985	39.991	0.00	0.00
ATOM	7299	HA	ALA	X	480	22.764	36.714	40.759	0.00	0.00
ATOM	7300	CB	ALA	X	480	23.391	36.419	38.757	0.00	0.00
ATOM	7301	HB1	ALA	X	480	23.209	37.457	38.476	0.00	0.00
ATOM	7302	HB2	ALA	X	480	23.306	35.718	37.927	0.00	0.00
ATOM	7303	HB3	ALA	X	480	24.405	36.426	39.154	0.00	0.00
ATOM	7304	C	ALA	X	480	21.003	36.155	39.617	0.00	0.00
ATOM	7305	O	ALA	X	480	20.433	37.219	39.869	0.00	0.00
ATOM	7306	N	ARG	X	481	20.385	35.066	39.207	0.00	0.00
ATOM	7307	H	ARG	X	481	20.946	34.232	39.106	0.00	0.00
ATOM	7308	CA	ARG	X	481	18.916	34.992	38.966	0.00	0.00
ATOM	7309	HA	ARG	X	481	18.640	35.887	38.408	0.00	0.00
ATOM	7310	CB	ARG	X	481	18.504	33.799	38.060	0.00	0.00
ATOM	7311	HB2	ARG	X	481	19.143	32.976	38.379	0.00	0.00
ATOM	7312	HB3	ARG	X	481	17.468	33.487	38.195	0.00	0.00
ATOM	7313	CG	ARG	X	481	18.772	33.940	36.534	0.00	0.00
ATOM	7314	HG2	ARG	X	481	17.994	34.575	36.111	0.00	0.00
ATOM	7315	HG3	ARG	X	481	19.752	34.377	36.341	0.00	0.00
ATOM	7316	CD	ARG	X	481	18.785	32.528	35.915	0.00	0.00
ATOM	7317	HD2	ARG	X	481	19.469	31.974	36.557	0.00	0.00
ATOM	7318	HD3	ARG	X	481	17.808	32.049	35.976	0.00	0.00
ATOM	7319	NE	ARG	X	481	19.266	32.530	34.514	0.00	0.00
ATOM	7320	HE	ARG	X	481	18.832	33.222	33.920	0.00	0.00
ATOM	7321	CZ	ARG	X	481	20.078	31.573	34.003	0.00	0.00
ATOM	7322	NH1	ARG	X	481	20.625	30.538	34.636	0.00	0.00
ATOM	7323	HH11	ARG	X	481	20.655	30.530	35.645	0.00	0.00
ATOM	7324	HH12	ARG	X	481	21.274	30.016	34.065	0.00	0.00
ATOM	7325	NH2	ARG	X	481	20.271	31.667	32.678	0.00	0.00
ATOM	7326	HH21	ARG	X	481	19.803	32.404	32.170	0.00	0.00
ATOM	7327	HH22	ARG	X	481	20.915	31.023	32.241	0.00	0.00

ATOM	7328	C	ARG	X	481	18.077	35.043	40.231	0.00	0.00
ATOM	7329	O	ARG	X	481	17.266	35.973	40.418	0.00	0.00
ATOM	7330	N	THR	X	482	18.211	34.032	41.082	0.00	0.00
ATOM	7331	H	THR	X	482	18.966	33.388	40.895	0.00	0.00
ATOM	7332	CA	THR	X	482	17.328	33.767	42.258	0.00	0.00
ATOM	7333	HA	THR	X	482	16.498	34.471	42.315	0.00	0.00
ATOM	7334	CB	THR	X	482	16.822	32.304	42.208	0.00	0.00
ATOM	7335	HB	THR	X	482	16.206	32.129	43.089	0.00	0.00
ATOM	7336	CG2	THR	X	482	16.042	31.987	40.910	0.00	0.00
ATOM	7337	HG21	THR	X	482	15.222	32.699	40.819	0.00	0.00
ATOM	7338	HG22	THR	X	482	15.665	30.964	40.921	0.00	0.00
ATOM	7339	HG23	THR	X	482	16.617	32.042	39.985	0.00	0.00
ATOM	7340	OG1	THR	X	482	17.922	31.532	42.084	0.00	0.00
ATOM	7341	HG1	THR	X	482	17.778	30.661	41.706	0.00	0.00
ATOM	7342	C	THR	X	482	18.057	33.919	43.586	0.00	0.00
ATOM	7343	O	THR	X	482	17.405	33.866	44.625	0.00	0.00
ATOM	7344	N	GLY	X	483	19.370	34.024	43.626	0.00	0.00
ATOM	7345	H	GLY	X	483	19.797	34.136	42.717	0.00	0.00
ATOM	7346	CA	GLY	X	483	20.231	33.868	44.826	0.00	0.00
ATOM	7347	HA2	GLY	X	483	21.168	34.413	44.707	0.00	0.00
ATOM	7348	HA3	GLY	X	483	19.628	34.185	45.677	0.00	0.00
ATOM	7349	C	GLY	X	483	20.613	32.410	45.143	0.00	0.00
ATOM	7350	O	GLY	X	483	21.356	32.136	46.126	0.00	0.00
ATOM	7351	N	ASP	X	484	20.098	31.414	44.363	0.00	0.00
ATOM	7352	H	ASP	X	484	19.382	31.665	43.697	0.00	0.00
ATOM	7353	CA	ASP	X	484	20.319	29.964	44.613	0.00	0.00
ATOM	7354	HA	ASP	X	484	20.853	29.777	45.544	0.00	0.00
ATOM	7355	CB	ASP	X	484	18.954	29.337	44.748	0.00	0.00
ATOM	7356	HB2	ASP	X	484	18.402	29.765	45.585	0.00	0.00
ATOM	7357	HB3	ASP	X	484	18.312	29.501	43.882	0.00	0.00
ATOM	7358	CG	ASP	X	484	18.976	27.856	45.065	0.00	0.00
ATOM	7359	OD1	ASP	X	484	17.896	27.189	45.008	0.00	0.00
ATOM	7360	OD2	ASP	X	484	20.073	27.254	45.121	0.00	0.00
ATOM	7361	C	ASP	X	484	21.089	29.392	43.448	0.00	0.00
ATOM	7362	O	ASP	X	484	20.574	29.358	42.311	0.00	0.00
ATOM	7363	N	PRO	X	485	22.301	28.813	43.677	0.00	0.00
ATOM	7364	CD	PRO	X	485	23.057	28.892	44.892	0.00	0.00
ATOM	7365	HD2	PRO	X	485	22.805	27.997	45.461	0.00	0.00
ATOM	7366	HD3	PRO	X	485	22.906	29.841	45.408	0.00	0.00
ATOM	7367	CG	PRO	X	485	24.537	28.762	44.493	0.00	0.00
ATOM	7368	HG2	PRO	X	485	25.157	28.238	45.220	0.00	0.00
ATOM	7369	HG3	PRO	X	485	24.927	29.749	44.244	0.00	0.00
ATOM	7370	CB	PRO	X	485	24.424	27.830	43.354	0.00	0.00
ATOM	7371	HB2	PRO	X	485	24.346	26.844	43.811	0.00	0.00
ATOM	7372	HB3	PRO	X	485	25.320	27.939	42.743	0.00	0.00
ATOM	7373	CA	PRO	X	485	23.130	28.258	42.626	0.00	0.00
ATOM	7374	HA	PRO	X	485	23.454	29.069	41.973	0.00	0.00
ATOM	7375	C	PRO	X	485	22.519	27.021	41.860	0.00	0.00
ATOM	7376	O	PRO	X	485	22.921	26.697	40.709	0.00	0.00
ATOM	7377	N	ASN	X	486	21.619	26.315	42.511	0.00	0.00
ATOM	7378	H	ASN	X	486	21.238	26.693	43.367	0.00	0.00
ATOM	7379	CA	ASN	X	486	20.865	25.226	42.026	0.00	0.00
ATOM	7380	HA	ASN	X	486	21.555	24.555	41.515	0.00	0.00
ATOM	7381	CB	ASN	X	486	20.438	24.531	43.298	0.00	0.00
ATOM	7382	HB2	ASN	X	486	21.290	24.227	43.907	0.00	0.00
ATOM	7383	HB3	ASN	X	486	19.686	25.086	43.858	0.00	0.00
ATOM	7384	CG	ASN	X	486	19.730	23.180	43.008	0.00	0.00
ATOM	7385	OD1	ASN	X	486	19.746	22.588	41.946	0.00	0.00
ATOM	7386	ND2	ASN	X	486	19.081	22.611	43.975	0.00	0.00
ATOM	7387	HD21	ASN	X	486	18.816	21.642	43.874	0.00	0.00
ATOM	7388	HD22	ASN	X	486	19.027	22.988	44.911	0.00	0.00
ATOM	7389	C	ASN	X	486	19.803	25.592	41.000	0.00	0.00
ATOM	7390	O	ASN	X	486	19.144	26.617	41.189	0.00	0.00
ATOM	7391	N	GLU	X	487	19.529	24.715	40.028	0.00	0.00
ATOM	7392	H	GLU	X	487	20.035	23.842	39.991	0.00	0.00
ATOM	7393	CA	GLU	X	487	18.417	24.928	39.094	0.00	0.00
ATOM	7394	HA	GLU	X	487	18.577	25.809	38.472	0.00	0.00

ATOM	7395	CB	GLU	X	487	18.340	23.763	38.161	0.00	0.00
ATOM	7396	HB2	GLU	X	487	18.311	22.844	38.747	0.00	0.00
ATOM	7397	HB3	GLU	X	487	17.351	23.792	37.705	0.00	0.00
ATOM	7398	CG	GLU	X	487	19.385	23.640	37.057	0.00	0.00
ATOM	7399	HG2	GLU	X	487	20.378	23.849	37.457	0.00	0.00
ATOM	7400	HG3	GLU	X	487	19.317	22.723	36.472	0.00	0.00
ATOM	7401	CD	GLU	X	487	19.178	24.764	36.082	0.00	0.00
ATOM	7402	OE1	GLU	X	487	18.549	24.585	35.063	0.00	0.00
ATOM	7403	OE2	GLU	X	487	19.659	25.896	36.428	0.00	0.00
ATOM	7404	C	GLU	X	487	17.075	25.017	39.877	0.00	0.00
ATOM	7405	O	GLU	X	487	16.803	24.260	40.767	0.00	0.00
ATOM	7406	N	PRO	X	488	16.090	25.854	39.451	0.00	0.00
ATOM	7407	CD	PRO	X	488	16.245	26.859	38.467	0.00	0.00
ATOM	7408	HD2	PRO	X	488	16.336	26.361	37.502	0.00	0.00
ATOM	7409	HD3	PRO	X	488	17.136	27.444	38.696	0.00	0.00
ATOM	7410	CG	PRO	X	488	15.045	27.832	38.643	0.00	0.00
ATOM	7411	HG2	PRO	X	488	14.602	28.121	37.690	0.00	0.00
ATOM	7412	HG3	PRO	X	488	15.372	28.757	39.119	0.00	0.00
ATOM	7413	CB	PRO	X	488	14.002	27.066	39.483	0.00	0.00
ATOM	7414	HB2	PRO	X	488	13.168	26.731	38.867	0.00	0.00
ATOM	7415	HB3	PRO	X	488	13.680	27.660	40.339	0.00	0.00
ATOM	7416	CA	PRO	X	488	14.795	25.891	40.072	0.00	0.00
ATOM	7417	HA	PRO	X	488	15.072	26.134	41.097	0.00	0.00
ATOM	7418	C	PRO	X	488	14.041	24.542	39.945	0.00	0.00
ATOM	7419	O	PRO	X	488	13.201	24.297	40.880	0.00	0.00
ATOM	7420	N	ARG	X	489	14.233	23.767	38.884	0.00	0.00
ATOM	7421	H	ARG	X	489	14.941	24.080	38.236	0.00	0.00
ATOM	7422	CA	ARG	X	489	13.472	22.456	38.714	0.00	0.00
ATOM	7423	HA	ARG	X	489	12.424	22.716	38.560	0.00	0.00
ATOM	7424	CB	ARG	X	489	13.929	21.688	37.402	0.00	0.00
ATOM	7425	HB2	ARG	X	489	13.339	20.773	37.348	0.00	0.00
ATOM	7426	HB3	ARG	X	489	13.796	22.363	36.556	0.00	0.00
ATOM	7427	CG	ARG	X	489	15.354	21.268	37.368	0.00	0.00
ATOM	7428	HG2	ARG	X	489	15.919	22.149	37.064	0.00	0.00
ATOM	7429	HG3	ARG	X	489	15.678	21.030	38.381	0.00	0.00
ATOM	7430	CD	ARG	X	489	15.509	20.091	36.391	0.00	0.00
ATOM	7431	HD2	ARG	X	489	14.960	20.112	35.450	0.00	0.00
ATOM	7432	HD3	ARG	X	489	16.554	20.117	36.082	0.00	0.00
ATOM	7433	NE	ARG	X	489	15.371	18.851	37.093	0.00	0.00
ATOM	7434	HE	ARG	X	489	14.426	18.556	37.296	0.00	0.00
ATOM	7435	CZ	ARG	X	489	16.300	17.844	37.150	0.00	0.00
ATOM	7436	NH1	ARG	X	489	15.940	16.660	37.473	0.00	0.00
ATOM	7437	HH11	ARG	X	489	14.966	16.409	37.572	0.00	0.00
ATOM	7438	HH12	ARG	X	489	16.687	15.988	37.373	0.00	0.00
ATOM	7439	NH2	ARG	X	489	17.622	18.012	36.900	0.00	0.00
ATOM	7440	HH21	ARG	X	489	18.042	18.862	36.550	0.00	0.00
ATOM	7441	HH22	ARG	X	489	18.153	17.163	36.768	0.00	0.00
ATOM	7442	C	ARG	X	489	13.571	21.456	39.868	0.00	0.00
ATOM	7443	O	ARG	X	489	12.752	20.582	39.971	0.00	0.00
ATOM	7444	N	ASP	X	490	14.609	21.514	40.759	0.00	0.00
ATOM	7445	H	ASP	X	490	15.289	22.243	40.598	0.00	0.00
ATOM	7446	CA	ASP	X	490	14.953	20.530	41.778	0.00	0.00
ATOM	7447	HA	ASP	X	490	15.698	21.041	42.388	0.00	0.00
ATOM	7448	CB	ASP	X	490	13.797	20.225	42.758	0.00	0.00
ATOM	7449	HB2	ASP	X	490	13.446	21.171	43.170	0.00	0.00
ATOM	7450	HB3	ASP	X	490	12.903	19.839	42.267	0.00	0.00
ATOM	7451	CG	ASP	X	490	14.032	19.343	43.929	0.00	0.00
ATOM	7452	OD1	ASP	X	490	13.097	18.603	44.422	0.00	0.00
ATOM	7453	OD2	ASP	X	490	15.135	19.488	44.510	0.00	0.00
ATOM	7454	C	ASP	X	490	15.609	19.256	41.302	0.00	0.00
ATOM	7455	O	ASP	X	490	15.091	18.112	41.351	0.00	0.00
ATOM	7456	N	PRO	X	491	16.933	19.393	40.934	0.00	0.00
ATOM	7457	CD	PRO	X	491	17.647	20.619	40.618	0.00	0.00
ATOM	7458	HD2	PRO	X	491	18.023	20.913	41.598	0.00	0.00
ATOM	7459	HD3	PRO	X	491	17.019	21.406	40.199	0.00	0.00
ATOM	7460	CG	PRO	X	491	18.860	20.302	39.699	0.00	0.00
ATOM	7461	HG2	PRO	X	491	19.713	20.980	39.743	0.00	0.00

ATOM	7462	HG3	PRO	X	491	18.503	20.030	38.706	0.00	0.00
ATOM	7463	CB	PRO	X	491	19.168	18.896	40.265	0.00	0.00
ATOM	7464	HB2	PRO	X	491	19.719	18.865	41.206	0.00	0.00
ATOM	7465	HB3	PRO	X	491	19.673	18.357	39.464	0.00	0.00
ATOM	7466	CA	PRO	X	491	17.831	18.280	40.599	0.00	0.00
ATOM	7467	HA	PRO	X	491	17.438	17.829	39.687	0.00	0.00
ATOM	7468	C	PRO	X	491	18.075	17.258	41.733	0.00	0.00
ATOM	7469	O	PRO	X	491	18.043	17.636	42.891	0.00	0.00
ATOM	7470	N	LYS	X	492	18.274	15.953	41.391	0.00	0.00
ATOM	7471	H	LYS	X	492	18.163	15.567	40.464	0.00	0.00
ATOM	7472	CA	LYS	X	492	18.783	14.969	42.432	0.00	0.00
ATOM	7473	HA	LYS	X	492	18.630	15.382	43.429	0.00	0.00
ATOM	7474	CB	LYS	X	492	17.855	13.704	42.461	0.00	0.00
ATOM	7475	HB2	LYS	X	492	18.176	13.109	43.315	0.00	0.00
ATOM	7476	HB3	LYS	X	492	16.809	13.980	42.596	0.00	0.00
ATOM	7477	CG	LYS	X	492	18.054	12.830	41.160	0.00	0.00
ATOM	7478	HG2	LYS	X	492	17.458	13.160	40.309	0.00	0.00
ATOM	7479	HG3	LYS	X	492	19.100	12.799	40.856	0.00	0.00
ATOM	7480	CD	LYS	X	492	17.524	11.400	41.322	0.00	0.00
ATOM	7481	HD2	LYS	X	492	18.139	10.777	41.971	0.00	0.00
ATOM	7482	HD3	LYS	X	492	16.478	11.351	41.626	0.00	0.00
ATOM	7483	CE	LYS	X	492	17.471	10.810	39.951	0.00	0.00
ATOM	7484	HE2	LYS	X	492	16.940	9.858	39.934	0.00	0.00
ATOM	7485	HE3	LYS	X	492	17.123	11.541	39.221	0.00	0.00
ATOM	7486	NZ	LYS	X	492	18.835	10.528	39.565	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	19.432	11.327	39.725	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	19.196	9.718	40.048	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	18.894	10.366	38.569	0.00	0.00
ATOM	7490	C	LYS	X	492	20.345	14.705	42.387	0.00	0.00
ATOM	7491	O	LYS	X	492	20.892	14.075	43.290	0.00	0.00
ATOM	7492	N	ALA	X	493	21.058	15.160	41.413	0.00	0.00
ATOM	7493	H	ALA	X	493	20.511	15.517	40.643	0.00	0.00
ATOM	7494	CA	ALA	X	493	22.535	15.423	41.381	0.00	0.00
ATOM	7495	HA	ALA	X	493	23.130	14.555	41.665	0.00	0.00
ATOM	7496	CB	ALA	X	493	22.902	15.869	39.994	0.00	0.00
ATOM	7497	HB1	ALA	X	493	23.956	16.103	39.846	0.00	0.00
ATOM	7498	HB2	ALA	X	493	22.346	16.758	39.694	0.00	0.00
ATOM	7499	HB3	ALA	X	493	22.864	15.003	39.333	0.00	0.00
ATOM	7500	C	ALA	X	493	23.003	16.440	42.456	0.00	0.00
ATOM	7501	O	ALA	X	493	22.222	17.390	42.736	0.00	0.00
ATOM	7502	N	PRO	X	494	24.184	16.294	43.144	0.00	0.00
ATOM	7503	CD	PRO	X	494	25.364	15.568	42.752	0.00	0.00
ATOM	7504	HD2	PRO	X	494	25.569	15.757	41.698	0.00	0.00
ATOM	7505	HD3	PRO	X	494	25.216	14.516	42.995	0.00	0.00
ATOM	7506	CG	PRO	X	494	26.478	16.109	43.581	0.00	0.00
ATOM	7507	HG2	PRO	X	494	26.977	16.956	43.111	0.00	0.00
ATOM	7508	HG3	PRO	X	494	27.323	15.459	43.806	0.00	0.00
ATOM	7509	CB	PRO	X	494	25.845	16.595	44.796	0.00	0.00
ATOM	7510	HB2	PRO	X	494	26.426	17.426	45.195	0.00	0.00
ATOM	7511	HB3	PRO	X	494	25.839	15.737	45.469	0.00	0.00
ATOM	7512	CA	PRO	X	494	24.452	17.021	44.366	0.00	0.00
ATOM	7513	HA	PRO	X	494	23.761	16.777	45.173	0.00	0.00
ATOM	7514	C	PRO	X	494	24.502	18.563	44.214	0.00	0.00
ATOM	7515	O	PRO	X	494	24.859	19.169	43.124	0.00	0.00
ATOM	7516	N	GLN	X	495	24.211	19.263	45.348	0.00	0.00
ATOM	7517	H	GLN	X	495	24.157	18.758	46.220	0.00	0.00
ATOM	7518	CA	GLN	X	495	24.134	20.732	45.373	0.00	0.00
ATOM	7519	HA	GLN	X	495	24.572	21.238	44.512	0.00	0.00
ATOM	7520	CB	GLN	X	495	22.610	21.111	45.233	0.00	0.00
ATOM	7521	HB2	GLN	X	495	22.125	20.790	46.154	0.00	0.00
ATOM	7522	HB3	GLN	X	495	22.488	22.178	45.045	0.00	0.00
ATOM	7523	CG	GLN	X	495	21.856	20.426	44.072	0.00	0.00
ATOM	7524	HG2	GLN	X	495	21.881	19.341	44.165	0.00	0.00
ATOM	7525	HG3	GLN	X	495	20.783	20.586	44.172	0.00	0.00
ATOM	7526	CD	GLN	X	495	22.287	20.790	42.657	0.00	0.00
ATOM	7527	OE1	GLN	X	495	22.918	21.870	42.457	0.00	0.00
ATOM	7528	NE2	GLN	X	495	22.211	19.887	41.678	0.00	0.00

ATOM	7529	HE21	GLN	X	495	22.573	20.201	40.789	0.00	0.00
ATOM	7530	HE22	GLN	X	495	21.869	18.960	41.886	0.00	0.00
ATOM	7531	C	GLN	X	495	24.874	21.328	46.573	0.00	0.00
ATOM	7532	O	GLN	X	495	25.138	20.734	47.593	0.00	0.00
ATOM	7533	N	TRP	X	496	25.178	22.596	46.507	0.00	0.00
ATOM	7534	H	TRP	X	496	24.755	23.054	45.712	0.00	0.00
ATOM	7535	CA	TRP	X	496	26.040	23.418	47.367	0.00	0.00
ATOM	7536	HA	TRP	X	496	26.930	22.790	47.373	0.00	0.00
ATOM	7537	CB	TRP	X	496	26.187	24.704	46.610	0.00	0.00
ATOM	7538	HB2	TRP	X	496	26.096	24.452	45.553	0.00	0.00
ATOM	7539	HB3	TRP	X	496	25.286	25.306	46.732	0.00	0.00
ATOM	7540	CG	TRP	X	496	27.430	25.469	46.759	0.00	0.00
ATOM	7541	CD1	TRP	X	496	28.087	25.736	47.868	0.00	0.00
ATOM	7542	HD1	TRP	X	496	27.810	25.325	48.828	0.00	0.00
ATOM	7543	NE1	TRP	X	496	29.172	26.559	47.671	0.00	0.00
ATOM	7544	HE1	TRP	X	496	29.907	26.807	48.319	0.00	0.00
ATOM	7545	CE2	TRP	X	496	29.178	26.862	46.365	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	29.939	27.857	45.679	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	30.657	28.452	46.225	0.00	0.00
ATOM	7548	CH2	TRP	X	496	29.774	27.993	44.233	0.00	0.00
ATOM	7549	HH2	TRP	X	496	30.403	28.691	43.699	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	28.848	27.218	43.585	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	28.641	27.254	42.526	0.00	0.00
ATOM	7552	CE3	TRP	X	496	28.001	26.328	44.283	0.00	0.00
ATOM	7553	HE3	TRP	X	496	27.252	25.748	43.763	0.00	0.00
ATOM	7554	CD2	TRP	X	496	28.161	26.137	45.711	0.00	0.00
ATOM	7555	C	TRP	X	496	25.389	23.623	48.764	0.00	0.00
ATOM	7556	O	TRP	X	496	24.297	24.174	48.746	0.00	0.00
ATOM	7557	N	PRO	X	497	25.966	23.273	49.965	0.00	0.00
ATOM	7558	CD	PRO	X	497	27.253	22.601	49.997	0.00	0.00
ATOM	7559	HD2	PRO	X	497	28.088	23.119	49.524	0.00	0.00
ATOM	7560	HD3	PRO	X	497	27.150	21.663	49.451	0.00	0.00
ATOM	7561	CG	PRO	X	497	27.558	22.269	51.449	0.00	0.00
ATOM	7562	HG2	PRO	X	497	28.361	22.898	51.835	0.00	0.00
ATOM	7563	HG3	PRO	X	497	27.865	21.237	51.623	0.00	0.00
ATOM	7564	CB	PRO	X	497	26.194	22.383	52.145	0.00	0.00
ATOM	7565	HB2	PRO	X	497	26.311	22.734	53.170	0.00	0.00
ATOM	7566	HB3	PRO	X	497	25.627	21.452	52.151	0.00	0.00
ATOM	7567	CA	PRO	X	497	25.556	23.484	51.305	0.00	0.00
ATOM	7568	HA	PRO	X	497	24.468	23.508	51.380	0.00	0.00
ATOM	7569	C	PRO	X	497	25.943	24.858	51.735	0.00	0.00
ATOM	7570	O	PRO	X	497	27.042	25.343	51.377	0.00	0.00
ATOM	7571	N	PRO	X	498	25.158	25.591	52.556	0.00	0.00
ATOM	7572	CD	PRO	X	498	23.755	25.348	52.909	0.00	0.00
ATOM	7573	HD2	PRO	X	498	23.672	24.510	53.600	0.00	0.00
ATOM	7574	HD3	PRO	X	498	23.084	25.175	52.067	0.00	0.00
ATOM	7575	CG	PRO	X	498	23.269	26.576	53.575	0.00	0.00
ATOM	7576	HG2	PRO	X	498	23.406	26.466	54.650	0.00	0.00
ATOM	7577	HG3	PRO	X	498	22.256	26.807	53.246	0.00	0.00
ATOM	7578	CB	PRO	X	498	24.186	27.722	53.095	0.00	0.00
ATOM	7579	HB2	PRO	X	498	24.427	28.356	53.948	0.00	0.00
ATOM	7580	HB3	PRO	X	498	23.825	28.303	52.246	0.00	0.00
ATOM	7581	CA	PRO	X	498	25.482	26.983	52.775	0.00	0.00
ATOM	7582	HA	PRO	X	498	25.923	27.477	51.909	0.00	0.00
ATOM	7583	C	PRO	X	498	26.450	27.079	54.016	0.00	0.00
ATOM	7584	O	PRO	X	498	26.195	26.325	55.004	0.00	0.00
ATOM	7585	N	TYR	X	499	27.468	27.937	53.795	0.00	0.00
ATOM	7586	H	TYR	X	499	27.466	28.514	52.966	0.00	0.00
ATOM	7587	CA	TYR	X	499	28.524	28.096	54.797	0.00	0.00
ATOM	7588	HA	TYR	X	499	29.025	27.149	55.001	0.00	0.00
ATOM	7589	CB	TYR	X	499	29.545	29.070	54.242	0.00	0.00
ATOM	7590	HB2	TYR	X	499	29.810	28.681	53.259	0.00	0.00
ATOM	7591	HB3	TYR	X	499	29.095	30.050	54.084	0.00	0.00
ATOM	7592	CG	TYR	X	499	30.875	29.254	55.044	0.00	0.00
ATOM	7593	CD1	TYR	X	499	30.985	30.114	56.089	0.00	0.00
ATOM	7594	HD1	TYR	X	499	30.067	30.610	56.367	0.00	0.00
ATOM	7595	CE1	TYR	X	499	32.208	30.321	56.764	0.00	0.00

ATOM	7596	HE1	TYR	X	499	32.212	31.075	57.538	0.00	0.00
ATOM	7597	CZ	TYR	X	499	33.339	29.630	56.351	0.00	0.00
ATOM	7598	OH	TYR	X	499	34.546	29.954	56.853	0.00	0.00
ATOM	7599	HH	TYR	X	499	34.405	30.584	57.563	0.00	0.00
ATOM	7600	CE2	TYR	X	499	33.258	28.642	55.358	0.00	0.00
ATOM	7601	HE2	TYR	X	499	34.055	27.967	55.083	0.00	0.00
ATOM	7602	CD2	TYR	X	499	31.995	28.448	54.694	0.00	0.00
ATOM	7603	HD2	TYR	X	499	31.904	27.684	53.936	0.00	0.00
ATOM	7604	C	TYR	X	499	28.000	28.703	56.096	0.00	0.00
ATOM	7605	O	TYR	X	499	27.384	29.783	56.093	0.00	0.00
ATOM	7606	N	THR	X	500	28.279	28.054	57.183	0.00	0.00
ATOM	7607	H	THR	X	500	28.830	27.223	57.024	0.00	0.00
ATOM	7608	CA	THR	X	500	27.910	28.441	58.607	0.00	0.00
ATOM	7609	HA	THR	X	500	27.397	29.402	58.594	0.00	0.00
ATOM	7610	CB	THR	X	500	26.982	27.511	59.313	0.00	0.00
ATOM	7611	HB	THR	X	500	26.910	27.891	60.332	0.00	0.00
ATOM	7612	CG2	THR	X	500	25.547	27.511	58.893	0.00	0.00
ATOM	7613	HG21	THR	X	500	25.243	26.513	58.578	0.00	0.00
ATOM	7614	HG22	THR	X	500	25.316	28.359	58.248	0.00	0.00
ATOM	7615	HG23	THR	X	500	24.960	27.632	59.803	0.00	0.00
ATOM	7616	OG1	THR	X	500	27.460	26.212	59.202	0.00	0.00
ATOM	7617	HG1	THR	X	500	26.956	25.606	59.751	0.00	0.00
ATOM	7618	C	THR	X	500	29.188	28.692	59.399	0.00	0.00
ATOM	7619	O	THR	X	500	30.115	27.954	59.213	0.00	0.00
ATOM	7620	N	ALA	X	501	29.258	29.685	60.306	0.00	0.00
ATOM	7621	H	ALA	X	501	28.450	30.242	60.544	0.00	0.00
ATOM	7622	CA	ALA	X	501	30.526	30.071	60.866	0.00	0.00
ATOM	7623	HA	ALA	X	501	31.260	30.251	60.081	0.00	0.00
ATOM	7624	CB	ALA	X	501	30.194	31.409	61.583	0.00	0.00
ATOM	7625	HB1	ALA	X	501	31.102	31.840	62.005	0.00	0.00
ATOM	7626	HB2	ALA	X	501	29.434	31.221	62.341	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.727	32.153	60.938	0.00	0.00
ATOM	7628	C	ALA	X	501	31.093	29.134	61.919	0.00	0.00
ATOM	7629	O	ALA	X	501	32.345	29.111	62.011	0.00	0.00
ATOM	7630	N	GLY	X	502	30.373	28.223	62.582	0.00	0.00
ATOM	7631	H	GLY	X	502	29.385	28.322	62.399	0.00	0.00
ATOM	7632	CA	GLY	X	502	30.773	27.230	63.569	0.00	0.00
ATOM	7633	HA2	GLY	X	502	31.463	27.666	64.291	0.00	0.00
ATOM	7634	HA3	GLY	X	502	29.878	26.962	64.131	0.00	0.00
ATOM	7635	C	GLY	X	502	31.346	25.955	62.964	0.00	0.00
ATOM	7636	O	GLY	X	502	31.807	25.083	63.750	0.00	0.00
ATOM	7637	N	ALA	X	503	31.264	25.788	61.626	0.00	0.00
ATOM	7638	H	ALA	X	503	31.051	26.625	61.102	0.00	0.00
ATOM	7639	CA	ALA	X	503	31.264	24.433	60.915	0.00	0.00
ATOM	7640	HA	ALA	X	503	31.958	23.682	61.291	0.00	0.00
ATOM	7641	CB	ALA	X	503	29.852	23.838	61.003	0.00	0.00
ATOM	7642	HB1	ALA	X	503	29.765	22.930	60.405	0.00	0.00
ATOM	7643	HB2	ALA	X	503	29.073	24.507	60.637	0.00	0.00
ATOM	7644	HB3	ALA	X	503	29.611	23.584	62.035	0.00	0.00
ATOM	7645	C	ALA	X	503	31.796	24.546	59.426	0.00	0.00
ATOM	7646	O	ALA	X	503	32.403	23.536	59.015	0.00	0.00
ATOM	7647	N	GLN	X	504	31.617	25.644	58.738	0.00	0.00
ATOM	7648	H	GLN	X	504	30.900	26.289	59.036	0.00	0.00
ATOM	7649	CA	GLN	X	504	32.551	26.245	57.735	0.00	0.00
ATOM	7650	HA	GLN	X	504	32.126	27.178	57.366	0.00	0.00
ATOM	7651	CB	GLN	X	504	33.856	26.726	58.330	0.00	0.00
ATOM	7652	HB2	GLN	X	504	34.447	25.861	58.629	0.00	0.00
ATOM	7653	HB3	GLN	X	504	34.491	27.153	57.554	0.00	0.00
ATOM	7654	CG	GLN	X	504	33.697	27.768	59.547	0.00	0.00
ATOM	7655	HG2	GLN	X	504	32.896	28.491	59.398	0.00	0.00
ATOM	7656	HG3	GLN	X	504	33.445	27.193	60.438	0.00	0.00
ATOM	7657	CD	GLN	X	504	34.984	28.559	59.757	0.00	0.00
ATOM	7658	OE1	GLN	X	504	34.972	29.834	59.779	0.00	0.00
ATOM	7659	NE2	GLN	X	504	36.115	27.965	60.070	0.00	0.00
ATOM	7660	HE21	GLN	X	504	36.864	28.627	60.208	0.00	0.00
ATOM	7661	HE22	GLN	X	504	36.103	26.983	60.306	0.00	0.00
ATOM	7662	C	GLN	X	504	32.800	25.363	56.458	0.00	0.00

ATOM	7663	O	GLN	X	504	33.942	25.296	55.901	0.00	0.00
ATOM	7664	N	GLN	X	505	31.871	24.601	55.975	0.00	0.00
ATOM	7665	H	GLN	X	505	30.948	24.943	56.201	0.00	0.00
ATOM	7666	CA	GLN	X	505	31.923	23.660	54.883	0.00	0.00
ATOM	7667	HA	GLN	X	505	32.896	23.177	54.790	0.00	0.00
ATOM	7668	CB	GLN	X	505	30.749	22.710	55.033	0.00	0.00
ATOM	7669	HB2	GLN	X	505	29.785	23.175	54.823	0.00	0.00
ATOM	7670	HB3	GLN	X	505	30.861	22.148	54.106	0.00	0.00
ATOM	7671	CG	GLN	X	505	30.861	21.785	56.248	0.00	0.00
ATOM	7672	HG2	GLN	X	505	31.905	21.476	56.290	0.00	0.00
ATOM	7673	HG3	GLN	X	505	30.523	22.287	57.155	0.00	0.00
ATOM	7674	CD	GLN	X	505	29.927	20.598	56.110	0.00	0.00
ATOM	7675	OE1	GLN	X	505	29.542	20.146	55.007	0.00	0.00
ATOM	7676	NE2	GLN	X	505	29.759	19.905	57.188	0.00	0.00
ATOM	7677	HE21	GLN	X	505	29.381	18.980	57.042	0.00	0.00
ATOM	7678	HE22	GLN	X	505	29.999	20.149	58.138	0.00	0.00
ATOM	7679	C	GLN	X	505	31.785	24.425	53.495	0.00	0.00
ATOM	7680	O	GLN	X	505	30.888	25.228	53.397	0.00	0.00
ATOM	7681	N	TYR	X	506	32.616	24.021	52.561	0.00	0.00
ATOM	7682	H	TYR	X	506	33.214	23.241	52.791	0.00	0.00
ATOM	7683	CA	TYR	X	506	32.716	24.574	51.247	0.00	0.00
ATOM	7684	HA	TYR	X	506	31.878	25.216	50.977	0.00	0.00
ATOM	7685	CB	TYR	X	506	34.007	25.360	51.190	0.00	0.00
ATOM	7686	HB2	TYR	X	506	34.059	25.822	50.205	0.00	0.00
ATOM	7687	HB3	TYR	X	506	34.064	26.200	51.883	0.00	0.00
ATOM	7688	CG	TYR	X	506	35.255	24.472	51.515	0.00	0.00
ATOM	7689	CD1	TYR	X	506	35.679	24.235	52.822	0.00	0.00
ATOM	7690	HD1	TYR	X	506	35.143	24.634	53.670	0.00	0.00
ATOM	7691	CE1	TYR	X	506	36.799	23.429	53.043	0.00	0.00
ATOM	7692	HE1	TYR	X	506	37.035	23.195	54.071	0.00	0.00
ATOM	7693	CZ	TYR	X	506	37.554	22.951	51.911	0.00	0.00
ATOM	7694	OH	TYR	X	506	38.681	22.160	52.099	0.00	0.00
ATOM	7695	HH	TYR	X	506	38.874	21.918	53.007	0.00	0.00
ATOM	7696	CE2	TYR	X	506	37.171	23.267	50.654	0.00	0.00
ATOM	7697	HE2	TYR	X	506	37.746	22.841	49.845	0.00	0.00
ATOM	7698	CD2	TYR	X	506	36.007	24.024	50.421	0.00	0.00
ATOM	7699	HD2	TYR	X	506	35.619	24.154	49.422	0.00	0.00
ATOM	7700	C	TYR	X	506	32.767	23.485	50.234	0.00	0.00
ATOM	7701	O	TYR	X	506	33.278	22.362	50.460	0.00	0.00
ATOM	7702	N	VAL	X	507	32.465	23.773	48.981	0.00	0.00
ATOM	7703	H	VAL	X	507	32.156	24.728	48.867	0.00	0.00
ATOM	7704	CA	VAL	X	507	32.537	22.830	47.852	0.00	0.00
ATOM	7705	HA	VAL	X	507	32.409	21.792	48.161	0.00	0.00
ATOM	7706	CB	VAL	X	507	31.390	23.139	46.850	0.00	0.00
ATOM	7707	HB	VAL	X	507	31.472	22.448	46.011	0.00	0.00
ATOM	7708	CG1	VAL	X	507	30.065	22.845	47.585	0.00	0.00
ATOM	7709	HG11	VAL	X	507	29.207	23.167	46.995	0.00	0.00
ATOM	7710	HG12	VAL	X	507	29.970	21.780	47.793	0.00	0.00
ATOM	7711	HG13	VAL	X	507	29.894	23.452	48.474	0.00	0.00
ATOM	7712	CG2	VAL	X	507	31.512	24.507	46.148	0.00	0.00
ATOM	7713	HG21	VAL	X	507	30.684	24.752	45.483	0.00	0.00
ATOM	7714	HG22	VAL	X	507	32.461	24.503	45.611	0.00	0.00
ATOM	7715	HG23	VAL	X	507	31.599	25.312	46.878	0.00	0.00
ATOM	7716	C	VAL	X	507	33.937	22.808	47.239	0.00	0.00
ATOM	7717	O	VAL	X	507	34.614	23.796	47.085	0.00	0.00
ATOM	7718	N	SER	X	508	34.331	21.631	46.699	0.00	0.00
ATOM	7719	H	SER	X	508	33.728	20.828	46.805	0.00	0.00
ATOM	7720	CA	SER	X	508	35.424	21.567	45.740	0.00	0.00
ATOM	7721	HA	SER	X	508	36.137	22.380	45.880	0.00	0.00
ATOM	7722	CB	SER	X	508	36.180	20.225	45.975	0.00	0.00
ATOM	7723	HB2	SER	X	508	36.881	20.059	45.157	0.00	0.00
ATOM	7724	HB3	SER	X	508	36.744	20.315	46.903	0.00	0.00
ATOM	7725	OG	SER	X	508	35.323	19.041	45.909	0.00	0.00
ATOM	7726	HG	SER	X	508	34.576	19.165	46.498	0.00	0.00
ATOM	7727	C	SER	X	508	34.851	21.638	44.360	0.00	0.00
ATOM	7728	O	SER	X	508	33.751	21.088	44.141	0.00	0.00
ATOM	7729	N	LEU	X	509	35.596	22.342	43.464	0.00	0.00

ATOM	7730	H	LEU	X	509	36.439	22.823	43.745	0.00	0.00
ATOM	7731	CA	LEU	X	509	35.158	22.395	42.041	0.00	0.00
ATOM	7732	HA	LEU	X	509	34.208	21.897	41.847	0.00	0.00
ATOM	7733	CB	LEU	X	509	35.002	23.887	41.748	0.00	0.00
ATOM	7734	HB2	LEU	X	509	35.966	24.375	41.889	0.00	0.00
ATOM	7735	HB3	LEU	X	509	34.853	23.989	40.673	0.00	0.00
ATOM	7736	CG	LEU	X	509	33.897	24.673	42.489	0.00	0.00
ATOM	7737	HG	LEU	X	509	34.163	24.598	43.543	0.00	0.00
ATOM	7738	CD1	LEU	X	509	33.860	26.191	42.110	0.00	0.00
ATOM	7739	HD11	LEU	X	509	33.449	26.317	41.108	0.00	0.00
ATOM	7740	HD12	LEU	X	509	34.827	26.692	42.139	0.00	0.00
ATOM	7741	HD13	LEU	X	509	33.128	26.756	42.686	0.00	0.00
ATOM	7742	CD2	LEU	X	509	32.468	24.097	42.188	0.00	0.00
ATOM	7743	HD21	LEU	X	509	31.716	24.869	42.352	0.00	0.00
ATOM	7744	HD22	LEU	X	509	32.434	23.686	41.179	0.00	0.00
ATOM	7745	HD23	LEU	X	509	32.395	23.262	42.885	0.00	0.00
ATOM	7746	C	LEU	X	509	36.159	21.722	41.112	0.00	0.00
ATOM	7747	O	LEU	X	509	37.272	22.140	40.990	0.00	0.00
ATOM	7748	N	ASP	X	510	35.733	20.686	40.374	0.00	0.00
ATOM	7749	H	ASP	X	510	34.760	20.498	40.565	0.00	0.00
ATOM	7750	CA	ASP	X	510	36.584	19.709	39.691	0.00	0.00
ATOM	7751	HA	ASP	X	510	37.414	20.267	39.256	0.00	0.00
ATOM	7752	CB	ASP	X	510	37.092	18.641	40.643	0.00	0.00
ATOM	7753	HB2	ASP	X	510	37.334	19.098	41.603	0.00	0.00
ATOM	7754	HB3	ASP	X	510	36.258	17.970	40.850	0.00	0.00
ATOM	7755	CG	ASP	X	510	38.225	17.765	40.195	0.00	0.00
ATOM	7756	OD1	ASP	X	510	38.466	16.724	40.815	0.00	0.00
ATOM	7757	OD2	ASP	X	510	38.963	18.099	39.285	0.00	0.00
ATOM	7758	C	ASP	X	510	35.854	19.101	38.463	0.00	0.00
ATOM	7759	O	ASP	X	510	34.619	19.207	38.273	0.00	0.00
ATOM	7760	N	LEU	X	511	36.598	18.258	37.703	0.00	0.00
ATOM	7761	H	LEU	X	511	37.591	18.231	37.888	0.00	0.00
ATOM	7762	CA	LEU	X	511	36.048	17.422	36.623	0.00	0.00
ATOM	7763	HA	LEU	X	511	35.355	17.985	35.999	0.00	0.00
ATOM	7764	CB	LEU	X	511	37.211	16.990	35.711	0.00	0.00
ATOM	7765	HB2	LEU	X	511	37.934	16.494	36.359	0.00	0.00
ATOM	7766	HB3	LEU	X	511	36.900	16.229	34.994	0.00	0.00
ATOM	7767	CG	LEU	X	511	37.915	18.080	34.895	0.00	0.00
ATOM	7768	HG	LEU	X	511	38.117	18.894	35.590	0.00	0.00
ATOM	7769	CD1	LEU	X	511	39.271	17.577	34.331	0.00	0.00
ATOM	7770	HD11	LEU	X	511	39.019	16.647	33.823	0.00	0.00
ATOM	7771	HD12	LEU	X	511	39.908	17.406	35.199	0.00	0.00
ATOM	7772	HD13	LEU	X	511	39.815	18.231	33.650	0.00	0.00
ATOM	7773	CD2	LEU	X	511	37.109	18.544	33.682	0.00	0.00
ATOM	7774	HD21	LEU	X	511	36.225	19.022	34.105	0.00	0.00
ATOM	7775	HD22	LEU	X	511	37.735	19.211	33.088	0.00	0.00
ATOM	7776	HD23	LEU	X	511	36.765	17.679	33.116	0.00	0.00
ATOM	7777	C	LEU	X	511	35.260	16.189	37.157	0.00	0.00
ATOM	7778	O	LEU	X	511	35.375	15.067	36.556	0.00	0.00
ATOM	7779	N	ARG	X	512	34.534	16.362	38.309	0.00	0.00
ATOM	7780	H	ARG	X	512	34.546	17.325	38.612	0.00	0.00
ATOM	7781	CA	ARG	X	512	33.541	15.541	38.924	0.00	0.00
ATOM	7782	HA	ARG	X	512	33.302	14.668	38.317	0.00	0.00
ATOM	7783	CB	ARG	X	512	34.202	15.036	40.217	0.00	0.00
ATOM	7784	HB2	ARG	X	512	34.471	15.922	40.792	0.00	0.00
ATOM	7785	HB3	ARG	X	512	33.480	14.355	40.667	0.00	0.00
ATOM	7786	CG	ARG	X	512	35.435	14.196	39.830	0.00	0.00
ATOM	7787	HG2	ARG	X	512	35.136	13.433	39.111	0.00	0.00
ATOM	7788	HG3	ARG	X	512	36.207	14.862	39.445	0.00	0.00
ATOM	7789	CD	ARG	X	512	36.033	13.413	41.027	0.00	0.00
ATOM	7790	HD2	ARG	X	512	36.314	14.093	41.831	0.00	0.00
ATOM	7791	HD3	ARG	X	512	35.210	12.786	41.371	0.00	0.00
ATOM	7792	NE	ARG	X	512	37.183	12.582	40.743	0.00	0.00
ATOM	7793	HE	ARG	X	512	37.616	12.702	39.838	0.00	0.00
ATOM	7794	CZ	ARG	X	512	37.765	11.671	41.526	0.00	0.00
ATOM	7795	NH1	ARG	X	512	37.432	11.430	42.729	0.00	0.00
ATOM	7796	HH11	ARG	X	512	36.653	11.911	43.155	0.00	0.00

ATOM	7797	HH12	ARG	X	512	37.714	10.527	43.083	0.00	0.00
ATOM	7798	NH2	ARG	X	512	38.789	11.059	41.018	0.00	0.00
ATOM	7799	HH21	ARG	X	512	39.162	11.386	40.139	0.00	0.00
ATOM	7800	HH22	ARG	X	512	39.256	10.420	41.646	0.00	0.00
ATOM	7801	C	ARG	X	512	32.287	16.377	39.280	0.00	0.00
ATOM	7802	O	ARG	X	512	32.459	17.625	39.317	0.00	0.00
ATOM	7803	N	PRO	X	513	31.105	15.830	39.611	0.00	0.00
ATOM	7804	CD	PRO	X	513	30.705	14.451	39.243	0.00	0.00
ATOM	7805	HD2	PRO	X	513	31.221	13.784	39.934	0.00	0.00
ATOM	7806	HD3	PRO	X	513	30.884	14.267	38.183	0.00	0.00
ATOM	7807	CG	PRO	X	513	29.180	14.391	39.516	0.00	0.00
ATOM	7808	HG2	PRO	X	513	28.885	13.475	40.029	0.00	0.00
ATOM	7809	HG3	PRO	X	513	28.697	14.530	38.549	0.00	0.00
ATOM	7810	CB	PRO	X	513	28.935	15.582	40.520	0.00	0.00
ATOM	7811	HB2	PRO	X	513	29.096	15.098	41.483	0.00	0.00
ATOM	7812	HB3	PRO	X	513	27.916	15.969	40.512	0.00	0.00
ATOM	7813	CA	PRO	X	513	30.035	16.593	40.276	0.00	0.00
ATOM	7814	HA	PRO	X	513	29.624	17.394	39.661	0.00	0.00
ATOM	7815	C	PRO	X	513	30.558	17.091	41.634	0.00	0.00
ATOM	7816	O	PRO	X	513	31.657	16.718	42.103	0.00	0.00
ATOM	7817	N	LEU	X	514	29.719	17.940	42.274	0.00	0.00
ATOM	7818	H	LEU	X	514	28.752	18.076	42.017	0.00	0.00
ATOM	7819	CA	LEU	X	514	30.194	18.584	43.535	0.00	0.00
ATOM	7820	HA	LEU	X	514	31.102	19.140	43.302	0.00	0.00
ATOM	7821	CB	LEU	X	514	29.115	19.538	44.054	0.00	0.00
ATOM	7822	HB2	LEU	X	514	28.224	18.948	44.268	0.00	0.00
ATOM	7823	HB3	LEU	X	514	29.312	19.893	45.066	0.00	0.00
ATOM	7824	CG	LEU	X	514	28.677	20.750	43.249	0.00	0.00
ATOM	7825	HG	LEU	X	514	28.373	20.430	42.252	0.00	0.00
ATOM	7826	CD1	LEU	X	514	27.509	21.320	44.025	0.00	0.00
ATOM	7827	HD11	LEU	X	514	27.147	22.103	43.359	0.00	0.00
ATOM	7828	HD12	LEU	X	514	27.771	21.649	45.031	0.00	0.00
ATOM	7829	HD13	LEU	X	514	26.771	20.524	44.126	0.00	0.00
ATOM	7830	CD2	LEU	X	514	29.847	21.733	43.036	0.00	0.00
ATOM	7831	HD21	LEU	X	514	30.668	21.096	42.709	0.00	0.00
ATOM	7832	HD22	LEU	X	514	29.520	22.549	42.392	0.00	0.00
ATOM	7833	HD23	LEU	X	514	30.067	22.109	44.035	0.00	0.00
ATOM	7834	C	LEU	X	514	30.531	17.528	44.627	0.00	0.00
ATOM	7835	O	LEU	X	514	29.606	16.853	45.170	0.00	0.00
ATOM	7836	N	GLU	X	515	31.816	17.403	44.981	0.00	0.00
ATOM	7837	H	GLU	X	515	32.468	17.967	44.453	0.00	0.00
ATOM	7838	CA	GLU	X	515	32.174	16.830	46.274	0.00	0.00
ATOM	7839	HA	GLU	X	515	31.460	16.064	46.577	0.00	0.00
ATOM	7840	CB	GLU	X	515	33.618	16.162	46.096	0.00	0.00
ATOM	7841	HB2	GLU	X	515	33.453	15.336	45.405	0.00	0.00
ATOM	7842	HB3	GLU	X	515	34.371	16.851	45.714	0.00	0.00
ATOM	7843	CG	GLU	X	515	33.867	15.505	47.436	0.00	0.00
ATOM	7844	HG2	GLU	X	515	33.932	16.248	48.231	0.00	0.00
ATOM	7845	HG3	GLU	X	515	33.199	14.729	47.809	0.00	0.00
ATOM	7846	CD	GLU	X	515	35.287	14.815	47.394	0.00	0.00
ATOM	7847	OE1	GLU	X	515	35.403	13.725	48.054	0.00	0.00
ATOM	7848	OE2	GLU	X	515	36.143	15.432	46.808	0.00	0.00
ATOM	7849	C	GLU	X	515	32.185	18.019	47.249	0.00	0.00
ATOM	7850	O	GLU	X	515	32.765	19.044	46.919	0.00	0.00
ATOM	7851	N	VAL	X	516	31.654	17.970	48.498	0.00	0.00
ATOM	7852	H	VAL	X	516	31.222	17.105	48.791	0.00	0.00
ATOM	7853	CA	VAL	X	516	31.759	19.018	49.620	0.00	0.00
ATOM	7854	HA	VAL	X	516	31.881	20.032	49.240	0.00	0.00
ATOM	7855	CB	VAL	X	516	30.419	19.070	50.435	0.00	0.00
ATOM	7856	HB	VAL	X	516	30.274	18.055	50.804	0.00	0.00
ATOM	7857	CG1	VAL	X	516	30.391	19.968	51.661	0.00	0.00
ATOM	7858	HG11	VAL	X	516	31.161	19.719	52.390	0.00	0.00
ATOM	7859	HG12	VAL	X	516	30.412	21.014	51.354	0.00	0.00
ATOM	7860	HG13	VAL	X	516	29.445	19.758	52.161	0.00	0.00
ATOM	7861	CG2	VAL	X	516	29.187	19.346	49.553	0.00	0.00
ATOM	7862	HG21	VAL	X	516	28.323	19.525	50.194	0.00	0.00
ATOM	7863	HG22	VAL	X	516	28.965	18.483	48.925	0.00	0.00

ATOM	7864	HG23	VAL	X	516	29.433	20.256	49.007	0.00	0.00
ATOM	7865	C	VAL	X	516	32.930	18.601	50.548	0.00	0.00
ATOM	7866	O	VAL	X	516	33.119	17.404	50.827	0.00	0.00
ATOM	7867	N	ARG	X	517	33.574	19.593	51.127	0.00	0.00
ATOM	7868	H	ARG	X	517	33.394	20.539	50.821	0.00	0.00
ATOM	7869	CA	ARG	X	517	34.755	19.552	52.035	0.00	0.00
ATOM	7870	HA	ARG	X	517	34.930	18.502	52.272	0.00	0.00
ATOM	7871	CB	ARG	X	517	35.921	20.138	51.271	0.00	0.00
ATOM	7872	HB2	ARG	X	517	35.643	21.171	51.061	0.00	0.00
ATOM	7873	HB3	ARG	X	517	36.755	20.027	51.964	0.00	0.00
ATOM	7874	CG	ARG	X	517	36.295	19.477	49.938	0.00	0.00
ATOM	7875	HG2	ARG	X	517	35.401	19.386	49.320	0.00	0.00
ATOM	7876	HG3	ARG	X	517	36.920	20.223	49.448	0.00	0.00
ATOM	7877	CD	ARG	X	517	36.910	18.090	49.936	0.00	0.00
ATOM	7878	HD2	ARG	X	517	37.881	18.217	50.416	0.00	0.00
ATOM	7879	HD3	ARG	X	517	36.186	17.472	50.468	0.00	0.00
ATOM	7880	NE	ARG	X	517	37.217	17.553	48.588	0.00	0.00
ATOM	7881	HE	ARG	X	517	36.543	16.961	48.125	0.00	0.00
ATOM	7882	CZ	ARG	X	517	38.244	17.836	47.803	0.00	0.00
ATOM	7883	NH1	ARG	X	517	39.121	18.769	48.184	0.00	0.00
ATOM	7884	HH11	ARG	X	517	39.129	19.132	49.126	0.00	0.00
ATOM	7885	HH12	ARG	X	517	39.717	19.164	47.470	0.00	0.00
ATOM	7886	NH2	ARG	X	517	38.220	17.276	46.676	0.00	0.00
ATOM	7887	HH21	ARG	X	517	37.531	16.556	46.511	0.00	0.00
ATOM	7888	HH22	ARG	X	517	38.982	17.421	46.028	0.00	0.00
ATOM	7889	C	ARG	X	517	34.516	20.375	53.341	0.00	0.00
ATOM	7890	O	ARG	X	517	33.806	21.386	53.286	0.00	0.00
ATOM	7891	N	ARG	X	518	35.066	20.011	54.477	0.00	0.00
ATOM	7892	H	ARG	X	518	35.724	19.248	54.415	0.00	0.00
ATOM	7893	CA	ARG	X	518	34.832	20.568	55.773	0.00	0.00
ATOM	7894	HA	ARG	X	518	33.869	21.070	55.682	0.00	0.00
ATOM	7895	CB	ARG	X	518	34.663	19.349	56.760	0.00	0.00
ATOM	7896	HB2	ARG	X	518	35.495	18.663	56.603	0.00	0.00
ATOM	7897	HB3	ARG	X	518	34.718	19.596	57.821	0.00	0.00
ATOM	7898	CG	ARG	X	518	33.402	18.512	56.600	0.00	0.00
ATOM	7899	HG2	ARG	X	518	33.276	18.033	57.571	0.00	0.00
ATOM	7900	HG3	ARG	X	518	32.558	19.183	56.444	0.00	0.00
ATOM	7901	CD	ARG	X	518	33.354	17.475	55.521	0.00	0.00
ATOM	7902	HD2	ARG	X	518	33.424	18.058	54.603	0.00	0.00
ATOM	7903	HD3	ARG	X	518	34.137	16.735	55.686	0.00	0.00
ATOM	7904	NE	ARG	X	518	32.073	16.785	55.475	0.00	0.00
ATOM	7905	HE	ARG	X	518	31.640	16.693	56.383	0.00	0.00
ATOM	7906	CZ	ARG	X	518	31.637	15.998	54.509	0.00	0.00
ATOM	7907	NH1	ARG	X	518	32.276	15.982	53.426	0.00	0.00
ATOM	7908	HH11	ARG	X	518	33.170	16.449	53.372	0.00	0.00
ATOM	7909	HH12	ARG	X	518	32.007	15.294	52.737	0.00	0.00
ATOM	7910	NH2	ARG	X	518	30.466	15.345	54.664	0.00	0.00
ATOM	7911	HH21	ARG	X	518	29.768	15.547	55.366	0.00	0.00
ATOM	7912	HH22	ARG	X	518	30.161	14.713	53.937	0.00	0.00
ATOM	7913	C	ARG	X	518	35.890	21.562	56.239	0.00	0.00
ATOM	7914	O	ARG	X	518	37.091	21.271	56.083	0.00	0.00
ATOM	7915	N	GLY	X	519	35.502	22.634	56.822	0.00	0.00
ATOM	7916	H	GLY	X	519	34.498	22.708	56.910	0.00	0.00
ATOM	7917	CA	GLY	X	519	36.300	23.603	57.578	0.00	0.00
ATOM	7918	HA2	GLY	X	519	35.650	24.205	58.213	0.00	0.00
ATOM	7919	HA3	GLY	X	519	36.933	23.004	58.231	0.00	0.00
ATOM	7920	C	GLY	X	519	37.333	24.492	56.788	0.00	0.00
ATOM	7921	O	GLY	X	519	38.509	24.249	57.016	0.00	0.00
ATOM	7922	N	LEU	X	520	36.829	25.464	56.045	0.00	0.00
ATOM	7923	H	LEU	X	520	35.832	25.627	56.056	0.00	0.00
ATOM	7924	CA	LEU	X	520	37.599	26.362	55.217	0.00	0.00
ATOM	7925	HA	LEU	X	520	37.974	25.818	54.351	0.00	0.00
ATOM	7926	CB	LEU	X	520	36.672	27.482	54.655	0.00	0.00
ATOM	7927	HB2	LEU	X	520	35.800	27.056	54.158	0.00	0.00
ATOM	7928	HB3	LEU	X	520	36.386	28.100	55.506	0.00	0.00
ATOM	7929	CG	LEU	X	520	37.374	28.409	53.597	0.00	0.00
ATOM	7930	HG	LEU	X	520	38.232	28.812	54.135	0.00	0.00

ATOM	7931	CD1	LEU	X	520	37.826	27.699	52.344	0.00	0.00
ATOM	7932	HD11	LEU	X	520	38.714	27.079	52.459	0.00	0.00
ATOM	7933	HD12	LEU	X	520	38.095	28.366	51.525	0.00	0.00
ATOM	7934	HD13	LEU	X	520	37.015	27.103	51.924	0.00	0.00
ATOM	7935	CD2	LEU	X	520	36.313	29.541	53.342	0.00	0.00
ATOM	7936	HD21	LEU	X	520	36.669	30.178	52.533	0.00	0.00
ATOM	7937	HD22	LEU	X	520	35.414	29.022	53.008	0.00	0.00
ATOM	7938	HD23	LEU	X	520	36.155	30.123	54.250	0.00	0.00
ATOM	7939	C	LEU	X	520	38.832	26.891	55.927	0.00	0.00
ATOM	7940	O	LEU	X	520	38.764	27.865	56.694	0.00	0.00
ATOM	7941	N	ARG	X	521	39.993	26.243	55.693	0.00	0.00
ATOM	7942	H	ARG	X	521	40.010	25.383	55.163	0.00	0.00
ATOM	7943	CA	ARG	X	521	41.310	26.688	56.187	0.00	0.00
ATOM	7944	HA	ARG	X	521	41.950	25.815	56.055	0.00	0.00
ATOM	7945	CB	ARG	X	521	41.776	27.879	55.302	0.00	0.00
ATOM	7946	HB2	ARG	X	521	41.407	27.498	54.350	0.00	0.00
ATOM	7947	HB3	ARG	X	521	41.287	28.839	55.467	0.00	0.00
ATOM	7948	CG	ARG	X	521	43.272	28.054	55.181	0.00	0.00
ATOM	7949	HG2	ARG	X	521	43.362	28.957	54.577	0.00	0.00
ATOM	7950	HG3	ARG	X	521	43.631	28.354	56.165	0.00	0.00
ATOM	7951	CD	ARG	X	521	43.995	26.913	54.553	0.00	0.00
ATOM	7952	HD2	ARG	X	521	43.808	26.068	55.217	0.00	0.00
ATOM	7953	HD3	ARG	X	521	43.483	26.799	53.598	0.00	0.00
ATOM	7954	NE	ARG	X	521	45.404	27.285	54.261	0.00	0.00
ATOM	7955	HE	ARG	X	521	45.629	28.265	54.350	0.00	0.00
ATOM	7956	CZ	ARG	X	521	46.288	26.590	53.639	0.00	0.00
ATOM	7957	NH1	ARG	X	521	46.075	25.347	53.349	0.00	0.00
ATOM	7958	HH11	ARG	X	521	45.260	24.841	53.662	0.00	0.00
ATOM	7959	HH12	ARG	X	521	46.794	24.809	52.885	0.00	0.00
ATOM	7960	NH2	ARG	X	521	47.440	27.141	53.308	0.00	0.00
ATOM	7961	HH21	ARG	X	521	47.668	28.020	53.750	0.00	0.00
ATOM	7962	HH22	ARG	X	521	48.156	26.704	52.745	0.00	0.00
ATOM	7963	C	ARG	X	521	41.313	26.920	57.706	0.00	0.00
ATOM	7964	O	ARG	X	521	41.930	27.782	58.279	0.00	0.00
ATOM	7965	N	ALA	X	522	40.414	26.185	58.407	0.00	0.00
ATOM	7966	H	ALA	X	522	39.668	25.794	57.851	0.00	0.00
ATOM	7967	CA	ALA	X	522	40.059	26.516	59.785	0.00	0.00
ATOM	7968	HA	ALA	X	522	39.623	27.515	59.780	0.00	0.00
ATOM	7969	CB	ALA	X	522	38.874	25.612	60.199	0.00	0.00
ATOM	7970	HB1	ALA	X	522	38.193	25.389	59.377	0.00	0.00
ATOM	7971	HB2	ALA	X	522	38.294	25.941	61.061	0.00	0.00
ATOM	7972	HB3	ALA	X	522	39.250	24.654	60.560	0.00	0.00
ATOM	7973	C	ALA	X	522	41.239	26.616	60.752	0.00	0.00
ATOM	7974	O	ALA	X	522	41.295	27.594	61.573	0.00	0.00
ATOM	7975	N	GLN	X	523	42.139	25.634	60.703	0.00	0.00
ATOM	7976	H	GLN	X	523	42.035	24.938	59.978	0.00	0.00
ATOM	7977	CA	GLN	X	523	43.282	25.543	61.576	0.00	0.00
ATOM	7978	HA	GLN	X	523	43.060	25.764	62.620	0.00	0.00
ATOM	7979	CB	GLN	X	523	43.781	24.080	61.577	0.00	0.00
ATOM	7980	HB2	GLN	X	523	42.885	23.490	61.773	0.00	0.00
ATOM	7981	HB3	GLN	X	523	44.109	23.862	60.561	0.00	0.00
ATOM	7982	CG	GLN	X	523	44.973	23.640	62.430	0.00	0.00
ATOM	7983	HG2	GLN	X	523	45.347	22.696	62.031	0.00	0.00
ATOM	7984	HG3	GLN	X	523	45.767	24.332	62.150	0.00	0.00
ATOM	7985	CD	GLN	X	523	44.712	23.523	63.947	0.00	0.00
ATOM	7986	OE1	GLN	X	523	43.772	24.110	64.504	0.00	0.00
ATOM	7987	NE2	GLN	X	523	45.482	22.757	64.689	0.00	0.00
ATOM	7988	HE21	GLN	X	523	45.372	22.665	65.689	0.00	0.00
ATOM	7989	HE22	GLN	X	523	46.413	22.652	64.310	0.00	0.00
ATOM	7990	C	GLN	X	523	44.377	26.473	61.096	0.00	0.00
ATOM	7991	O	GLN	X	523	45.114	26.959	61.987	0.00	0.00
ATOM	7992	N	ALA	X	524	44.593	26.794	59.857	0.00	0.00
ATOM	7993	H	ALA	X	524	44.020	26.317	59.176	0.00	0.00
ATOM	7994	CA	ALA	X	524	45.668	27.630	59.385	0.00	0.00
ATOM	7995	HA	ALA	X	524	46.568	27.562	59.995	0.00	0.00
ATOM	7996	CB	ALA	X	524	46.067	27.191	57.972	0.00	0.00
ATOM	7997	HB1	ALA	X	524	46.304	26.127	57.988	0.00	0.00

ATOM	7998	HB2	ALA	X	524	46.855	27.737	57.454	0.00	0.00
ATOM	7999	HB3	ALA	X	524	45.156	27.299	57.384	0.00	0.00
ATOM	8000	C	ALA	X	524	45.210	29.109	59.474	0.00	0.00
ATOM	8001	O	ALA	X	524	46.033	29.977	59.716	0.00	0.00
ATOM	8002	N	CYX	X	525	43.939	29.390	59.264	0.00	0.00
ATOM	8003	H	CYX	X	525	43.339	28.616	59.018	0.00	0.00
ATOM	8004	CA	CYX	X	525	43.398	30.728	59.416	0.00	0.00
ATOM	8005	HA	CYX	X	525	44.152	31.474	59.168	0.00	0.00
ATOM	8006	CB	CYX	X	525	42.166	30.958	58.600	0.00	0.00
ATOM	8007	HB2	CYX	X	525	41.534	30.114	58.878	0.00	0.00
ATOM	8008	HB3	CYX	X	525	41.713	31.898	58.916	0.00	0.00
ATOM	8009	SG	CYX	X	525	42.373	30.978	56.863	0.00	0.00
ATOM	8010	C	CYX	X	525	43.054	31.180	60.892	0.00	0.00
ATOM	8011	O	CYX	X	525	43.135	32.375	61.191	0.00	0.00
ATOM	8012	N	ALA	X	526	43.025	30.201	61.826	0.00	0.00
ATOM	8013	H	ALA	X	526	43.056	29.230	61.548	0.00	0.00
ATOM	8014	CA	ALA	X	526	43.010	30.587	63.224	0.00	0.00
ATOM	8015	HA	ALA	X	526	42.375	31.435	63.480	0.00	0.00
ATOM	8016	CB	ALA	X	526	42.572	29.405	64.078	0.00	0.00
ATOM	8017	HB1	ALA	X	526	42.689	29.546	65.153	0.00	0.00
ATOM	8018	HB2	ALA	X	526	43.239	28.578	63.833	0.00	0.00
ATOM	8019	HB3	ALA	X	526	41.507	29.271	63.888	0.00	0.00
ATOM	8020	C	ALA	X	526	44.395	31.130	63.756	0.00	0.00
ATOM	8021	O	ALA	X	526	44.485	31.960	64.665	0.00	0.00
ATOM	8022	N	PHE	X	527	45.500	30.673	63.102	0.00	0.00
ATOM	8023	H	PHE	X	527	45.426	29.890	62.468	0.00	0.00
ATOM	8024	CA	PHE	X	527	46.752	31.393	63.366	0.00	0.00
ATOM	8025	HA	PHE	X	527	46.964	31.462	64.433	0.00	0.00
ATOM	8026	CB	PHE	X	527	47.838	30.599	62.579	0.00	0.00
ATOM	8027	HB2	PHE	X	527	47.842	29.538	62.828	0.00	0.00
ATOM	8028	HB3	PHE	X	527	47.502	30.529	61.545	0.00	0.00
ATOM	8029	CG	PHE	X	527	49.264	31.137	62.771	0.00	0.00
ATOM	8030	CD1	PHE	X	527	49.864	31.071	64.045	0.00	0.00
ATOM	8031	HD1	PHE	X	527	49.327	30.705	64.908	0.00	0.00
ATOM	8032	CE1	PHE	X	527	51.179	31.548	64.174	0.00	0.00
ATOM	8033	HE1	PHE	X	527	51.704	31.538	65.117	0.00	0.00
ATOM	8034	CZ	PHE	X	527	51.842	32.077	63.098	0.00	0.00
ATOM	8035	HZ	PHE	X	527	52.843	32.475	63.181	0.00	0.00
ATOM	8036	CE2	PHE	X	527	51.282	32.083	61.835	0.00	0.00
ATOM	8037	HE2	PHE	X	527	51.731	32.528	60.959	0.00	0.00
ATOM	8038	CD2	PHE	X	527	49.970	31.691	61.716	0.00	0.00
ATOM	8039	HD2	PHE	X	527	49.457	31.708	60.765	0.00	0.00
ATOM	8040	C	PHE	X	527	46.613	32.837	62.848	0.00	0.00
ATOM	8041	O	PHE	X	527	46.602	33.837	63.606	0.00	0.00
ATOM	8042	N	TRP	X	528	46.464	33.050	61.513	0.00	0.00
ATOM	8043	H	TRP	X	528	46.378	32.259	60.890	0.00	0.00
ATOM	8044	CA	TRP	X	528	46.381	34.373	60.851	0.00	0.00
ATOM	8045	HA	TRP	X	528	47.256	34.897	61.237	0.00	0.00
ATOM	8046	CB	TRP	X	528	46.365	34.205	59.300	0.00	0.00
ATOM	8047	HB2	TRP	X	528	45.464	33.818	58.824	0.00	0.00
ATOM	8048	HB3	TRP	X	528	46.458	35.197	58.857	0.00	0.00
ATOM	8049	CG	TRP	X	528	47.565	33.426	58.706	0.00	0.00
ATOM	8050	CD1	TRP	X	528	47.512	32.154	58.152	0.00	0.00
ATOM	8051	HD1	TRP	X	528	46.592	31.600	58.039	0.00	0.00
ATOM	8052	NE1	TRP	X	528	48.767	31.815	57.666	0.00	0.00
ATOM	8053	HE1	TRP	X	528	48.951	30.943	57.191	0.00	0.00
ATOM	8054	CE2	TRP	X	528	49.698	32.779	57.963	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	51.078	32.826	57.859	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	51.571	31.991	57.385	0.00	0.00
ATOM	8057	CH2	TRP	X	528	51.783	33.961	58.193	0.00	0.00
ATOM	8058	HH2	TRP	X	528	52.847	34.036	58.021	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	51.073	35.032	58.749	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	51.572	35.923	59.100	0.00	0.00
ATOM	8061	CE3	TRP	X	528	49.655	34.972	58.946	0.00	0.00
ATOM	8062	HE3	TRP	X	528	49.177	35.848	59.359	0.00	0.00
ATOM	8063	CD2	TRP	X	528	48.962	33.854	58.582	0.00	0.00
ATOM	8064	C	TRP	X	528	45.284	35.299	61.298	0.00	0.00

ATOM	8065	O	TRP	X	528	45.479	36.464	61.137	0.00	0.00
ATOM	8066	N	ASN	X	529	44.250	34.779	61.907	0.00	0.00
ATOM	8067	H	ASN	X	529	44.059	33.787	61.918	0.00	0.00
ATOM	8068	CA	ASN	X	529	43.128	35.646	62.300	0.00	0.00
ATOM	8069	HA	ASN	X	529	43.351	36.626	61.877	0.00	0.00
ATOM	8070	CB	ASN	X	529	41.795	35.150	61.757	0.00	0.00
ATOM	8071	HB2	ASN	X	529	41.633	34.132	62.114	0.00	0.00
ATOM	8072	HB3	ASN	X	529	40.995	35.775	62.154	0.00	0.00
ATOM	8073	CG	ASN	X	529	41.641	35.166	60.258	0.00	0.00
ATOM	8074	OD1	ASN	X	529	42.499	35.521	59.427	0.00	0.00
ATOM	8075	ND2	ASN	X	529	40.468	34.828	59.801	0.00	0.00
ATOM	8076	HD21	ASN	X	529	40.381	34.618	58.817	0.00	0.00
ATOM	8077	HD22	ASN	X	529	39.803	34.358	60.400	0.00	0.00
ATOM	8078	C	ASN	X	529	42.939	35.744	63.806	0.00	0.00
ATOM	8079	O	ASN	X	529	41.998	36.426	64.212	0.00	0.00
ATOM	8080	N	ARG	X	530	43.747	35.082	64.645	0.00	0.00
ATOM	8081	H	ARG	X	530	44.481	34.476	64.309	0.00	0.00
ATOM	8082	CA	ARG	X	530	43.572	35.334	66.089	0.00	0.00
ATOM	8083	HA	ARG	X	530	43.226	36.359	66.222	0.00	0.00
ATOM	8084	CB	ARG	X	530	42.512	34.358	66.603	0.00	0.00
ATOM	8085	HB2	ARG	X	530	41.524	34.646	66.243	0.00	0.00
ATOM	8086	HB3	ARG	X	530	42.589	33.448	66.007	0.00	0.00
ATOM	8087	CG	ARG	X	530	42.429	34.157	68.123	0.00	0.00
ATOM	8088	HG2	ARG	X	530	43.166	33.402	68.400	0.00	0.00
ATOM	8089	HG3	ARG	X	530	42.779	35.066	68.612	0.00	0.00
ATOM	8090	CD	ARG	X	530	41.064	33.634	68.661	0.00	0.00
ATOM	8091	HD2	ARG	X	530	41.037	33.438	69.733	0.00	0.00
ATOM	8092	HD3	ARG	X	530	40.344	34.439	68.510	0.00	0.00
ATOM	8093	NE	ARG	X	530	40.635	32.335	68.011	0.00	0.00
ATOM	8094	HE	ARG	X	530	39.921	32.471	67.310	0.00	0.00
ATOM	8095	CZ	ARG	X	530	41.176	31.140	68.087	0.00	0.00
ATOM	8096	NH1	ARG	X	530	42.064	30.775	69.059	0.00	0.00
ATOM	8097	HH11	ARG	X	530	42.489	31.484	69.640	0.00	0.00
ATOM	8098	HH12	ARG	X	530	42.383	29.834	69.242	0.00	0.00
ATOM	8099	NH2	ARG	X	530	40.821	30.223	67.235	0.00	0.00
ATOM	8100	HH21	ARG	X	530	40.081	30.245	66.549	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.090	29.262	67.396	0.00	0.00
ATOM	8102	C	ARG	X	530	44.934	35.337	66.745	0.00	0.00
ATOM	8103	O	ARG	X	530	45.337	36.311	67.361	0.00	0.00
ATOM	8104	N	PHE	X	531	45.661	34.220	66.560	0.00	0.00
ATOM	8105	H	PHE	X	531	45.366	33.543	65.872	0.00	0.00
ATOM	8106	CA	PHE	X	531	47.027	34.072	67.164	0.00	0.00
ATOM	8107	HA	PHE	X	531	46.872	34.392	68.194	0.00	0.00
ATOM	8108	CB	PHE	X	531	47.517	32.698	67.230	0.00	0.00
ATOM	8109	HB2	PHE	X	531	46.697	32.032	67.496	0.00	0.00
ATOM	8110	HB3	PHE	X	531	47.694	32.351	66.212	0.00	0.00
ATOM	8111	CG	PHE	X	531	48.701	32.497	68.172	0.00	0.00
ATOM	8112	CD1	PHE	X	531	49.969	32.316	67.602	0.00	0.00
ATOM	8113	HD1	PHE	X	531	50.044	32.227	66.528	0.00	0.00
ATOM	8114	CE1	PHE	X	531	51.099	32.142	68.488	0.00	0.00
ATOM	8115	HE1	PHE	X	531	52.021	31.848	68.010	0.00	0.00
ATOM	8116	CZ	PHE	X	531	50.915	32.020	69.877	0.00	0.00
ATOM	8117	HZ	PHE	X	531	51.758	31.946	70.548	0.00	0.00
ATOM	8118	CE2	PHE	X	531	49.629	32.315	70.355	0.00	0.00
ATOM	8119	HE2	PHE	X	531	49.450	32.451	71.412	0.00	0.00
ATOM	8120	CD2	PHE	X	531	48.526	32.494	69.542	0.00	0.00
ATOM	8121	HD2	PHE	X	531	47.536	32.763	69.881	0.00	0.00
ATOM	8122	C	PHE	X	531	48.155	34.938	66.725	0.00	0.00
ATOM	8123	O	PHE	X	531	48.684	35.730	67.504	0.00	0.00
ATOM	8124	N	LEU	X	532	48.550	34.803	65.459	0.00	0.00
ATOM	8125	H	LEU	X	532	48.120	34.078	64.902	0.00	0.00
ATOM	8126	CA	LEU	X	532	49.489	35.675	64.778	0.00	0.00
ATOM	8127	HA	LEU	X	532	50.426	35.476	65.298	0.00	0.00
ATOM	8128	CB	LEU	X	532	49.577	35.254	63.315	0.00	0.00
ATOM	8129	HB2	LEU	X	532	49.658	34.170	63.238	0.00	0.00
ATOM	8130	HB3	LEU	X	532	48.703	35.510	62.715	0.00	0.00
ATOM	8131	CG	LEU	X	532	50.834	35.716	62.532	0.00	0.00

ATOM	8132	HG	LEU	X	532	50.928	34.966	61.748	0.00	0.00
ATOM	8133	CD1	LEU	X	532	50.766	37.077	61.801	0.00	0.00
ATOM	8134	HD11	LEU	X	532	50.090	37.041	60.947	0.00	0.00
ATOM	8135	HD12	LEU	X	532	51.729	37.357	61.374	0.00	0.00
ATOM	8136	HD13	LEU	X	532	50.335	37.817	62.475	0.00	0.00
ATOM	8137	CD2	LEU	X	532	52.173	35.741	63.358	0.00	0.00
ATOM	8138	HD21	LEU	X	532	52.220	34.954	64.111	0.00	0.00
ATOM	8139	HD22	LEU	X	532	53.025	35.893	62.696	0.00	0.00
ATOM	8140	HD23	LEU	X	532	52.079	36.608	64.013	0.00	0.00
ATOM	8141	C	LEU	X	532	49.206	37.159	64.886	0.00	0.00
ATOM	8142	O	LEU	X	532	50.131	37.869	65.356	0.00	0.00
ATOM	8143	N	PRO	X	533	47.982	37.723	64.634	0.00	0.00
ATOM	8144	CD	PRO	X	533	46.804	37.060	64.040	0.00	0.00
ATOM	8145	HD2	PRO	X	533	46.430	36.358	64.785	0.00	0.00
ATOM	8146	HD3	PRO	X	533	46.963	36.542	63.094	0.00	0.00
ATOM	8147	CG	PRO	X	533	45.863	38.148	63.726	0.00	0.00
ATOM	8148	HG2	PRO	X	533	44.818	37.839	63.759	0.00	0.00
ATOM	8149	HG3	PRO	X	533	46.132	38.491	62.727	0.00	0.00
ATOM	8150	CB	PRO	X	533	46.073	39.119	64.849	0.00	0.00
ATOM	8151	HB2	PRO	X	533	45.650	38.637	65.730	0.00	0.00
ATOM	8152	HB3	PRO	X	533	45.687	40.075	64.494	0.00	0.00
ATOM	8153	CA	PRO	X	533	47.576	39.065	65.015	0.00	0.00
ATOM	8154	HA	PRO	X	533	47.956	39.779	64.284	0.00	0.00
ATOM	8155	C	PRO	X	533	48.026	39.581	66.423	0.00	0.00
ATOM	8156	O	PRO	X	533	48.543	40.680	66.481	0.00	0.00
ATOM	8157	N	LYS	X	534	47.905	38.819	67.531	0.00	0.00
ATOM	8158	H	LYS	X	534	47.284	38.029	67.429	0.00	0.00
ATOM	8159	CA	LYS	X	534	48.469	39.184	68.874	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.227	40.241	68.981	0.00	0.00
ATOM	8161	CB	LYS	X	534	47.660	38.426	69.998	0.00	0.00
ATOM	8162	HB2	LYS	X	534	47.737	37.360	69.784	0.00	0.00
ATOM	8163	HB3	LYS	X	534	48.128	38.656	70.955	0.00	0.00
ATOM	8164	CG	LYS	X	534	46.172	38.880	70.011	0.00	0.00
ATOM	8165	HG2	LYS	X	534	46.260	39.966	70.049	0.00	0.00
ATOM	8166	HG3	LYS	X	534	45.740	38.670	69.033	0.00	0.00
ATOM	8167	CD	LYS	X	534	45.392	38.193	71.153	0.00	0.00
ATOM	8168	HD2	LYS	X	534	44.912	37.381	70.607	0.00	0.00
ATOM	8169	HD3	LYS	X	534	45.997	37.761	71.950	0.00	0.00
ATOM	8170	CE	LYS	X	534	44.227	38.983	71.630	0.00	0.00
ATOM	8171	HE2	LYS	X	534	44.560	40.009	71.786	0.00	0.00
ATOM	8172	HE3	LYS	X	534	43.480	38.980	70.837	0.00	0.00
ATOM	8173	NZ	LYS	X	534	43.601	38.379	72.839	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	42.900	38.988	73.236	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	43.123	37.523	72.599	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	44.324	38.116	73.493	0.00	0.00
ATOM	8177	C	LYS	X	534	49.964	38.881	69.070	0.00	0.00
ATOM	8178	O	LYS	X	534	50.447	39.474	70.006	0.00	0.00
ATOM	8179	N	LEU	X	535	50.689	38.146	68.221	0.00	0.00
ATOM	8180	H	LEU	X	535	50.239	37.767	67.400	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.165	38.105	68.257	0.00	0.00
ATOM	8182	HA	LEU	X	535	52.499	38.102	69.295	0.00	0.00
ATOM	8183	CB	LEU	X	535	52.553	36.813	67.517	0.00	0.00
ATOM	8184	HB2	LEU	X	535	52.028	35.965	67.958	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.284	36.913	66.466	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.083	36.518	67.655	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.709	37.392	67.472	0.00	0.00
ATOM	8188	CD1	LEU	X	535	54.521	35.995	69.053	0.00	0.00
ATOM	8189	HD11	LEU	X	535	54.627	36.781	69.801	0.00	0.00
ATOM	8190	HD12	LEU	X	535	55.486	35.537	68.833	0.00	0.00
ATOM	8191	HD13	LEU	X	535	53.857	35.142	69.195	0.00	0.00
ATOM	8192	CD2	LEU	X	535	54.506	35.551	66.587	0.00	0.00
ATOM	8193	HD21	LEU	X	535	53.902	34.644	66.608	0.00	0.00
ATOM	8194	HD22	LEU	X	535	54.344	36.006	65.610	0.00	0.00
ATOM	8195	HD23	LEU	X	535	55.530	35.198	66.710	0.00	0.00
ATOM	8196	C	LEU	X	535	52.815	39.283	67.629	0.00	0.00
ATOM	8197	O	LEU	X	535	53.791	39.926	68.086	0.00	0.00
ATOM	8198	N	LEU	X	536	52.153	39.749	66.566	0.00	0.00

ATOM	8199	H	LEU	X	536	51.296	39.301	66.275	0.00	0.00
ATOM	8200	CA	LEU	X	536	52.516	41.107	66.007	0.00	0.00
ATOM	8201	HA	LEU	X	536	53.536	41.022	65.630	0.00	0.00
ATOM	8202	CB	LEU	X	536	51.712	41.554	64.766	0.00	0.00
ATOM	8203	HB2	LEU	X	536	50.663	41.655	65.042	0.00	0.00
ATOM	8204	HB3	LEU	X	536	51.964	42.515	64.318	0.00	0.00
ATOM	8205	CG	LEU	X	536	51.662	40.478	63.669	0.00	0.00
ATOM	8206	HG	LEU	X	536	51.116	39.595	64.000	0.00	0.00
ATOM	8207	CD1	LEU	X	536	50.859	41.059	62.532	0.00	0.00
ATOM	8208	HD11	LEU	X	536	51.288	42.008	62.209	0.00	0.00
ATOM	8209	HD12	LEU	X	536	49.877	41.170	62.992	0.00	0.00
ATOM	8210	HD13	LEU	X	536	50.754	40.344	61.716	0.00	0.00
ATOM	8211	CD2	LEU	X	536	53.041	40.049	63.177	0.00	0.00
ATOM	8212	HD21	LEU	X	536	53.024	39.582	62.192	0.00	0.00
ATOM	8213	HD22	LEU	X	536	53.589	40.951	62.904	0.00	0.00
ATOM	8214	HD23	LEU	X	536	53.545	39.402	63.896	0.00	0.00
ATOM	8215	C	LEU	X	536	52.484	42.234	66.993	0.00	0.00
ATOM	8216	O	LEU	X	536	53.473	43.000	67.071	0.00	0.00
ATOM	8217	N	SER	X	537	51.387	42.245	67.789	0.00	0.00
ATOM	8218	H	SER	X	537	50.541	41.738	67.573	0.00	0.00
ATOM	8219	CA	SER	X	537	51.230	43.108	68.988	0.00	0.00
ATOM	8220	HA	SER	X	537	51.314	44.129	68.615	0.00	0.00
ATOM	8221	CB	SER	X	537	49.867	42.904	69.657	0.00	0.00
ATOM	8222	HB2	SER	X	537	49.783	41.924	70.126	0.00	0.00
ATOM	8223	HB3	SER	X	537	49.748	43.688	70.405	0.00	0.00
ATOM	8224	OG	SER	X	537	48.906	43.002	68.638	0.00	0.00
ATOM	8225	HG	SER	X	537	48.014	42.900	68.978	0.00	0.00
ATOM	8226	C	SER	X	537	52.342	42.987	69.980	0.00	0.00
ATOM	8227	O	SER	X	537	52.755	43.996	70.612	0.00	0.00
ATOM	8228	N	ALA	X	538	52.901	41.761	70.148	0.00	0.00
ATOM	8229	H	ALA	X	538	52.603	40.978	69.585	0.00	0.00
ATOM	8230	CA	ALA	X	538	53.945	41.536	71.127	0.00	0.00
ATOM	8231	HA	ALA	X	538	53.684	42.058	72.046	0.00	0.00
ATOM	8232	CB	ALA	X	538	53.939	39.979	71.225	0.00	0.00
ATOM	8233	HB1	ALA	X	538	54.369	39.831	72.216	0.00	0.00
ATOM	8234	HB2	ALA	X	538	54.535	39.516	70.439	0.00	0.00
ATOM	8235	HB3	ALA	X	538	52.965	39.525	71.407	0.00	0.00
ATOM	8236	C	ALA	X	538	55.311	42.023	70.613	0.00	0.00
ATOM	8237	O	ALA	X	538	56.149	42.424	71.445	0.00	0.00
ATOM	8238	N	THR	X	539	55.563	41.892	69.318	0.00	0.00
ATOM	8239	H	THR	X	539	54.824	41.487	68.761	0.00	0.00
ATOM	8240	CA	THR	X	539	56.921	41.936	68.807	0.00	0.00
ATOM	8241	HA	THR	X	539	57.642	41.850	69.620	0.00	0.00
ATOM	8242	CB	THR	X	539	57.290	40.829	67.769	0.00	0.00
ATOM	8243	HB	THR	X	539	58.218	41.163	67.306	0.00	0.00
ATOM	8244	CG2	THR	X	539	57.480	39.486	68.552	0.00	0.00
ATOM	8245	HG21	THR	X	539	56.473	39.197	68.854	0.00	0.00
ATOM	8246	HG22	THR	X	539	58.205	39.669	69.345	0.00	0.00
ATOM	8247	HG23	THR	X	539	57.860	38.636	67.986	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.284	40.780	66.831	0.00	0.00
ATOM	8249	HG1	THR	X	539	55.517	40.409	67.273	0.00	0.00
ATOM	8250	C	THR	X	539	57.299	43.248	68.146	0.00	0.00
ATOM	8251	O	THR	X	539	56.476	43.853	67.495	0.00	0.00
ATOM	8252	OXT	THR	X	539	58.463	43.599	68.201	0.00	0.00

END

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1B41 Production MD Frame 0600
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CRYST1	82.095	82.095	82.095	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	15.931	46.367	12.497	0.00	0.00
ATOM	2	H1	ASP	X	1	14.931	46.419	12.366	0.00	0.00
ATOM	3	H2	ASP	X	1	16.067	45.486	12.972	0.00	0.00
ATOM	4	H3	ASP	X	1	16.470	46.338	11.643	0.00	0.00

ATOM	5	CA	ASP	X	1	16.471	47.420	13.298	0.00	0.00
ATOM	6	HA	ASP	X	1	17.530	47.341	13.055	0.00	0.00
ATOM	7	CB	ASP	X	1	16.012	48.768	12.752	0.00	0.00
ATOM	8	HB2	ASP	X	1	16.091	48.796	11.666	0.00	0.00
ATOM	9	HB3	ASP	X	1	14.956	48.966	12.938	0.00	0.00
ATOM	10	CG	ASP	X	1	16.729	49.961	13.363	0.00	0.00
ATOM	11	OD1	ASP	X	1	17.934	49.964	13.332	0.00	0.00
ATOM	12	OD2	ASP	X	1	15.984	50.859	13.767	0.00	0.00
ATOM	13	C	ASP	X	1	16.198	47.315	14.808	0.00	0.00
ATOM	14	O	ASP	X	1	17.067	47.788	15.559	0.00	0.00
ATOM	15	N	ALA	X	2	15.091	46.808	15.240	0.00	0.00
ATOM	16	H	ALA	X	2	14.419	46.491	14.556	0.00	0.00
ATOM	17	CA	ALA	X	2	14.624	46.773	16.662	0.00	0.00
ATOM	18	HA	ALA	X	2	14.724	47.761	17.111	0.00	0.00
ATOM	19	CB	ALA	X	2	13.145	46.403	16.552	0.00	0.00
ATOM	20	HB1	ALA	X	2	12.794	45.942	17.475	0.00	0.00
ATOM	21	HB2	ALA	X	2	13.091	45.636	15.779	0.00	0.00
ATOM	22	HB3	ALA	X	2	12.490	47.252	16.358	0.00	0.00
ATOM	23	C	ALA	X	2	15.498	45.838	17.502	0.00	0.00
ATOM	24	O	ALA	X	2	15.522	46.025	18.760	0.00	0.00
ATOM	25	N	GLU	X	3	16.277	44.933	16.885	0.00	0.00
ATOM	26	H	GLU	X	3	16.193	44.788	15.889	0.00	0.00
ATOM	27	CA	GLU	X	3	17.302	44.117	17.558	0.00	0.00
ATOM	28	HA	GLU	X	3	16.836	43.557	18.369	0.00	0.00
ATOM	29	CB	GLU	X	3	18.187	43.225	16.659	0.00	0.00
ATOM	30	HB2	GLU	X	3	18.792	43.882	16.034	0.00	0.00
ATOM	31	HB3	GLU	X	3	18.753	42.557	17.308	0.00	0.00
ATOM	32	CG	GLU	X	3	17.205	42.444	15.713	0.00	0.00
ATOM	33	HG2	GLU	X	3	17.573	41.434	15.532	0.00	0.00
ATOM	34	HG3	GLU	X	3	16.246	42.239	16.189	0.00	0.00
ATOM	35	CD	GLU	X	3	16.996	43.079	14.353	0.00	0.00
ATOM	36	OE1	GLU	X	3	16.866	44.313	14.240	0.00	0.00
ATOM	37	OE2	GLU	X	3	16.992	42.395	13.324	0.00	0.00
ATOM	38	C	GLU	X	3	18.332	45.106	18.246	0.00	0.00
ATOM	39	O	GLU	X	3	18.668	45.097	19.455	0.00	0.00
ATOM	40	N	LEU	X	4	18.872	46.098	17.458	0.00	0.00
ATOM	41	H	LEU	X	4	18.461	46.269	16.551	0.00	0.00
ATOM	42	CA	LEU	X	4	20.040	46.904	17.823	0.00	0.00
ATOM	43	HA	LEU	X	4	20.438	46.402	18.705	0.00	0.00
ATOM	44	CB	LEU	X	4	21.226	46.745	16.781	0.00	0.00
ATOM	45	HB2	LEU	X	4	21.104	47.378	15.902	0.00	0.00
ATOM	46	HB3	LEU	X	4	22.063	47.215	17.295	0.00	0.00
ATOM	47	CG	LEU	X	4	21.562	45.347	16.324	0.00	0.00
ATOM	48	HG	LEU	X	4	20.671	44.892	15.889	0.00	0.00
ATOM	49	CD1	LEU	X	4	22.599	45.354	15.193	0.00	0.00
ATOM	50	HD11	LEU	X	4	22.120	45.621	14.251	0.00	0.00
ATOM	51	HD12	LEU	X	4	23.052	44.371	15.066	0.00	0.00
ATOM	52	HD13	LEU	X	4	23.334	46.085	15.531	0.00	0.00
ATOM	53	CD2	LEU	X	4	21.966	44.534	17.510	0.00	0.00
ATOM	54	HD21	LEU	X	4	22.817	44.979	18.024	0.00	0.00
ATOM	55	HD22	LEU	X	4	21.130	44.486	18.208	0.00	0.00
ATOM	56	HD23	LEU	X	4	22.181	43.501	17.234	0.00	0.00
ATOM	57	C	LEU	X	4	19.827	48.310	18.178	0.00	0.00
ATOM	58	O	LEU	X	4	20.493	48.892	19.044	0.00	0.00
ATOM	59	N	LEU	X	5	18.658	48.854	17.825	0.00	0.00
ATOM	60	H	LEU	X	5	18.138	48.371	17.106	0.00	0.00
ATOM	61	CA	LEU	X	5	18.154	50.164	18.364	0.00	0.00
ATOM	62	HA	LEU	X	5	19.060	50.706	18.636	0.00	0.00
ATOM	63	CB	LEU	X	5	17.274	50.856	17.302	0.00	0.00
ATOM	64	HB2	LEU	X	5	17.836	50.731	16.377	0.00	0.00
ATOM	65	HB3	LEU	X	5	16.338	50.321	17.140	0.00	0.00
ATOM	66	CG	LEU	X	5	16.888	52.373	17.449	0.00	0.00
ATOM	67	HG	LEU	X	5	16.609	52.827	16.498	0.00	0.00
ATOM	68	CD1	LEU	X	5	15.689	52.620	18.387	0.00	0.00
ATOM	69	HD11	LEU	X	5	15.897	52.694	19.454	0.00	0.00
ATOM	70	HD12	LEU	X	5	15.003	51.809	18.144	0.00	0.00
ATOM	71	HD13	LEU	X	5	15.248	53.548	18.023	0.00	0.00

ATOM	72	CD2	LEU	X	5	18.152	53.125	17.897	0.00	0.00
ATOM	73	HD21	LEU	X	5	17.971	54.193	17.771	0.00	0.00
ATOM	74	HD22	LEU	X	5	18.533	52.957	18.904	0.00	0.00
ATOM	75	HD23	LEU	X	5	18.965	52.854	17.223	0.00	0.00
ATOM	76	C	LEU	X	5	17.322	49.915	19.668	0.00	0.00
ATOM	77	O	LEU	X	5	16.213	49.346	19.627	0.00	0.00
ATOM	78	N	VAL	X	6	17.861	50.530	20.824	0.00	0.00
ATOM	79	H	VAL	X	6	18.763	50.978	20.750	0.00	0.00
ATOM	80	CA	VAL	X	6	17.222	50.654	22.149	0.00	0.00
ATOM	81	HA	VAL	X	6	16.328	50.030	22.117	0.00	0.00
ATOM	82	CB	VAL	X	6	18.091	49.876	23.236	0.00	0.00
ATOM	83	HB	VAL	X	6	18.405	48.955	22.744	0.00	0.00
ATOM	84	CG1	VAL	X	6	19.405	50.694	23.455	0.00	0.00
ATOM	85	HG11	VAL	X	6	20.140	50.044	23.929	0.00	0.00
ATOM	86	HG12	VAL	X	6	19.985	50.858	22.548	0.00	0.00
ATOM	87	HG13	VAL	X	6	19.255	51.642	23.972	0.00	0.00
ATOM	88	CG2	VAL	X	6	17.383	49.687	24.515	0.00	0.00
ATOM	89	HG21	VAL	X	6	17.461	50.589	25.123	0.00	0.00
ATOM	90	HG22	VAL	X	6	17.836	48.952	25.179	0.00	0.00
ATOM	91	HG23	VAL	X	6	16.340	49.465	24.292	0.00	0.00
ATOM	92	C	VAL	X	6	16.989	52.080	22.450	0.00	0.00
ATOM	93	O	VAL	X	6	17.750	52.981	22.068	0.00	0.00
ATOM	94	N	THR	X	7	15.976	52.372	23.249	0.00	0.00
ATOM	95	H	THR	X	7	15.345	51.613	23.462	0.00	0.00
ATOM	96	CA	THR	X	7	15.548	53.707	23.811	0.00	0.00
ATOM	97	HA	THR	X	7	16.090	54.523	23.333	0.00	0.00
ATOM	98	CB	THR	X	7	14.127	53.888	23.445	0.00	0.00
ATOM	99	HB	THR	X	7	13.453	53.122	23.828	0.00	0.00
ATOM	100	CG2	THR	X	7	13.487	55.181	23.974	0.00	0.00
ATOM	101	HG21	THR	X	7	13.945	56.027	23.462	0.00	0.00
ATOM	102	HG22	THR	X	7	13.656	55.221	25.050	0.00	0.00
ATOM	103	HG23	THR	X	7	12.447	55.261	23.658	0.00	0.00
ATOM	104	OG1	THR	X	7	13.944	53.954	22.008	0.00	0.00
ATOM	105	HG1	THR	X	7	14.009	53.041	21.717	0.00	0.00
ATOM	106	C	THR	X	7	15.865	53.771	25.333	0.00	0.00
ATOM	107	O	THR	X	7	15.033	53.186	26.058	0.00	0.00
ATOM	108	N	VAL	X	8	16.932	54.399	25.764	0.00	0.00
ATOM	109	H	VAL	X	8	17.476	54.985	25.147	0.00	0.00
ATOM	110	CA	VAL	X	8	17.130	54.504	27.242	0.00	0.00
ATOM	111	HA	VAL	X	8	16.616	53.736	27.820	0.00	0.00
ATOM	112	CB	VAL	X	8	18.649	54.321	27.647	0.00	0.00
ATOM	113	HB	VAL	X	8	18.707	54.424	28.731	0.00	0.00
ATOM	114	CG1	VAL	X	8	18.993	52.913	27.224	0.00	0.00
ATOM	115	HG11	VAL	X	8	19.853	52.612	27.822	0.00	0.00
ATOM	116	HG12	VAL	X	8	18.136	52.256	27.376	0.00	0.00
ATOM	117	HG13	VAL	X	8	19.217	52.936	26.158	0.00	0.00
ATOM	118	CG2	VAL	X	8	19.691	55.366	27.062	0.00	0.00
ATOM	119	HG21	VAL	X	8	20.717	55.193	27.386	0.00	0.00
ATOM	120	HG22	VAL	X	8	19.357	56.379	27.290	0.00	0.00
ATOM	121	HG23	VAL	X	8	19.841	55.156	26.004	0.00	0.00
ATOM	122	C	VAL	X	8	16.604	55.802	27.776	0.00	0.00
ATOM	123	O	VAL	X	8	15.953	56.540	27.035	0.00	0.00
ATOM	124	N	ARG	X	9	16.730	55.981	29.086	0.00	0.00
ATOM	125	H	ARG	X	9	17.132	55.182	29.555	0.00	0.00
ATOM	126	CA	ARG	X	9	16.174	57.155	29.815	0.00	0.00
ATOM	127	HA	ARG	X	9	15.085	57.107	29.789	0.00	0.00
ATOM	128	CB	ARG	X	9	16.511	57.158	31.312	0.00	0.00
ATOM	129	HB2	ARG	X	9	16.413	56.136	31.678	0.00	0.00
ATOM	130	HB3	ARG	X	9	17.582	57.269	31.477	0.00	0.00
ATOM	131	CG	ARG	X	9	15.692	58.181	32.107	0.00	0.00
ATOM	132	HG2	ARG	X	9	16.048	59.149	31.755	0.00	0.00
ATOM	133	HG3	ARG	X	9	14.622	58.005	31.996	0.00	0.00
ATOM	134	CD	ARG	X	9	15.941	58.099	33.589	0.00	0.00
ATOM	135	HD2	ARG	X	9	15.413	57.199	33.903	0.00	0.00
ATOM	136	HD3	ARG	X	9	16.976	57.830	33.803	0.00	0.00
ATOM	137	NE	ARG	X	9	15.546	59.186	34.410	0.00	0.00
ATOM	138	HE	ARG	X	9	15.947	60.092	34.214	0.00	0.00

ATOM	139	CZ	ARG	X	9	14.571	59.237	35.318	0.00	0.00
ATOM	140	NH1	ARG	X	9	14.012	58.136	35.861	0.00	0.00
ATOM	141	HH11	ARG	X	9	14.328	57.210	35.614	0.00	0.00
ATOM	142	HH12	ARG	X	9	13.296	58.148	36.574	0.00	0.00
ATOM	143	NH2	ARG	X	9	14.086	60.374	35.706	0.00	0.00
ATOM	144	HH21	ARG	X	9	14.278	61.220	35.189	0.00	0.00
ATOM	145	HH22	ARG	X	9	13.158	60.369	36.104	0.00	0.00
ATOM	146	C	ARG	X	9	16.585	58.492	29.115	0.00	0.00
ATOM	147	O	ARG	X	9	15.735	59.363	28.927	0.00	0.00
ATOM	148	N	GLY	X	10	17.882	58.643	28.760	0.00	0.00
ATOM	149	H	GLY	X	10	18.539	57.938	29.062	0.00	0.00
ATOM	150	CA	GLY	X	10	18.367	59.931	28.208	0.00	0.00
ATOM	151	HA2	GLY	X	10	17.750	60.793	28.459	0.00	0.00
ATOM	152	HA3	GLY	X	10	19.396	60.010	28.560	0.00	0.00
ATOM	153	C	GLY	X	10	18.366	60.057	26.726	0.00	0.00
ATOM	154	O	GLY	X	10	18.634	61.173	26.223	0.00	0.00
ATOM	155	N	GLY	X	11	18.034	58.972	26.015	0.00	0.00
ATOM	156	H	GLY	X	11	17.936	58.116	26.543	0.00	0.00
ATOM	157	CA	GLY	X	11	17.751	58.967	24.542	0.00	0.00
ATOM	158	HA2	GLY	X	11	16.769	59.369	24.293	0.00	0.00
ATOM	159	HA3	GLY	X	11	18.557	59.600	24.173	0.00	0.00
ATOM	160	C	GLY	X	11	17.935	57.581	23.866	0.00	0.00
ATOM	161	O	GLY	X	11	17.884	56.527	24.526	0.00	0.00
ATOM	162	N	ARG	X	12	18.198	57.580	22.498	0.00	0.00
ATOM	163	H	ARG	X	12	18.391	58.462	22.047	0.00	0.00
ATOM	164	CA	ARG	X	12	18.256	56.283	21.665	0.00	0.00
ATOM	165	HA	ARG	X	12	17.899	55.447	22.268	0.00	0.00
ATOM	166	CB	ARG	X	12	17.337	56.481	20.397	0.00	0.00
ATOM	167	HB2	ARG	X	12	17.606	57.430	19.934	0.00	0.00
ATOM	168	HB3	ARG	X	12	17.370	55.619	19.730	0.00	0.00
ATOM	169	CG	ARG	X	12	15.872	56.583	20.779	0.00	0.00
ATOM	170	HG2	ARG	X	12	15.698	55.610	21.239	0.00	0.00
ATOM	171	HG3	ARG	X	12	15.706	57.376	21.508	0.00	0.00
ATOM	172	CD	ARG	X	12	15.011	56.751	19.473	0.00	0.00
ATOM	173	HD2	ARG	X	12	15.099	55.842	18.878	0.00	0.00
ATOM	174	HD3	ARG	X	12	13.961	56.910	19.715	0.00	0.00
ATOM	175	NE	ARG	X	12	15.482	57.847	18.552	0.00	0.00
ATOM	176	HE	ARG	X	12	15.729	58.775	18.865	0.00	0.00
ATOM	177	CZ	ARG	X	12	15.446	57.810	17.219	0.00	0.00
ATOM	178	NH1	ARG	X	12	15.057	56.760	16.528	0.00	0.00
ATOM	179	HH11	ARG	X	12	14.539	56.050	17.026	0.00	0.00
ATOM	180	HH12	ARG	X	12	14.803	56.900	15.561	0.00	0.00
ATOM	181	NH2	ARG	X	12	15.696	58.904	16.502	0.00	0.00
ATOM	182	HH21	ARG	X	12	15.765	59.788	16.985	0.00	0.00
ATOM	183	HH22	ARG	X	12	15.542	58.966	15.505	0.00	0.00
ATOM	184	C	ARG	X	12	19.727	55.890	21.406	0.00	0.00
ATOM	185	O	ARG	X	12	20.540	56.769	21.132	0.00	0.00
ATOM	186	N	LEU	X	13	19.950	54.621	21.357	0.00	0.00
ATOM	187	H	LEU	X	13	19.185	54.018	21.626	0.00	0.00
ATOM	188	CA	LEU	X	13	21.295	54.026	21.220	0.00	0.00
ATOM	189	HA	LEU	X	13	22.048	54.740	20.888	0.00	0.00
ATOM	190	CB	LEU	X	13	21.943	53.647	22.687	0.00	0.00
ATOM	191	HB2	LEU	X	13	21.277	52.954	23.202	0.00	0.00
ATOM	192	HB3	LEU	X	13	22.916	53.216	22.450	0.00	0.00
ATOM	193	CG	LEU	X	13	22.151	54.745	23.822	0.00	0.00
ATOM	194	HG	LEU	X	13	21.165	55.128	24.085	0.00	0.00
ATOM	195	CD1	LEU	X	13	22.668	53.938	25.093	0.00	0.00
ATOM	196	HD11	LEU	X	13	22.040	53.060	25.243	0.00	0.00
ATOM	197	HD12	LEU	X	13	22.583	54.488	26.030	0.00	0.00
ATOM	198	HD13	LEU	X	13	23.708	53.679	24.893	0.00	0.00
ATOM	199	CD2	LEU	X	13	23.067	55.916	23.384	0.00	0.00
ATOM	200	HD21	LEU	X	13	22.989	56.731	24.104	0.00	0.00
ATOM	201	HD22	LEU	X	13	24.077	55.526	23.261	0.00	0.00
ATOM	202	HD23	LEU	X	13	22.754	56.327	22.424	0.00	0.00
ATOM	203	C	LEU	X	13	21.256	52.794	20.331	0.00	0.00
ATOM	204	O	LEU	X	13	20.326	52.052	20.352	0.00	0.00
ATOM	205	N	ARG	X	14	22.381	52.648	19.584	0.00	0.00

ATOM	206	H	ARG	X	14	23.048	53.406	19.606	0.00	0.00
ATOM	207	CA	ARG	X	14	22.512	51.549	18.606	0.00	0.00
ATOM	208	HA	ARG	X	14	21.765	50.773	18.774	0.00	0.00
ATOM	209	CB	ARG	X	14	22.166	52.039	17.152	0.00	0.00
ATOM	210	HB2	ARG	X	14	21.297	52.696	17.172	0.00	0.00
ATOM	211	HB3	ARG	X	14	23.019	52.653	16.865	0.00	0.00
ATOM	212	CG	ARG	X	14	21.935	50.876	16.185	0.00	0.00
ATOM	213	HG2	ARG	X	14	22.909	50.393	16.110	0.00	0.00
ATOM	214	HG3	ARG	X	14	21.392	49.981	16.487	0.00	0.00
ATOM	215	CD	ARG	X	14	21.595	51.335	14.734	0.00	0.00
ATOM	216	HD2	ARG	X	14	22.182	52.232	14.535	0.00	0.00
ATOM	217	HD3	ARG	X	14	21.929	50.607	13.995	0.00	0.00
ATOM	218	NE	ARG	X	14	20.205	51.638	14.631	0.00	0.00
ATOM	219	HE	ARG	X	14	19.570	50.878	14.830	0.00	0.00
ATOM	220	CZ	ARG	X	14	19.602	52.759	14.374	0.00	0.00
ATOM	221	NH1	ARG	X	14	20.278	53.853	14.295	0.00	0.00
ATOM	222	HH11	ARG	X	14	21.276	53.733	14.392	0.00	0.00
ATOM	223	HH12	ARG	X	14	19.783	54.729	14.210	0.00	0.00
ATOM	224	NH2	ARG	X	14	18.314	52.870	14.267	0.00	0.00
ATOM	225	HH21	ARG	X	14	17.786	52.013	14.355	0.00	0.00
ATOM	226	HH22	ARG	X	14	17.787	53.710	14.080	0.00	0.00
ATOM	227	C	ARG	X	14	23.802	50.708	18.679	0.00	0.00
ATOM	228	O	ARG	X	14	24.924	51.253	18.399	0.00	0.00
ATOM	229	N	GLY	X	15	23.662	49.433	18.996	0.00	0.00
ATOM	230	H	GLY	X	15	22.733	49.049	19.095	0.00	0.00
ATOM	231	CA	GLY	X	15	24.666	48.424	19.113	0.00	0.00
ATOM	232	HA2	GLY	X	15	25.645	48.841	19.352	0.00	0.00
ATOM	233	HA3	GLY	X	15	24.462	47.808	19.989	0.00	0.00
ATOM	234	C	GLY	X	15	24.884	47.602	17.852	0.00	0.00
ATOM	235	O	GLY	X	15	24.463	48.035	16.784	0.00	0.00
ATOM	236	N	ILE	X	16	25.427	46.378	17.976	0.00	0.00
ATOM	237	H	ILE	X	16	25.631	46.079	18.919	0.00	0.00
ATOM	238	CA	ILE	X	16	25.740	45.439	16.853	0.00	0.00
ATOM	239	HA	ILE	X	16	25.268	45.820	15.948	0.00	0.00
ATOM	240	CB	ILE	X	16	27.206	45.489	16.528	0.00	0.00
ATOM	241	HB	ILE	X	16	27.431	44.668	15.846	0.00	0.00
ATOM	242	CG2	ILE	X	16	27.606	46.866	15.829	0.00	0.00
ATOM	243	HG21	ILE	X	16	27.719	47.583	16.642	0.00	0.00
ATOM	244	HG22	ILE	X	16	26.773	47.210	15.216	0.00	0.00
ATOM	245	HG23	ILE	X	16	28.572	46.778	15.332	0.00	0.00
ATOM	246	CG1	ILE	X	16	28.054	45.195	17.802	0.00	0.00
ATOM	247	HG12	ILE	X	16	28.015	45.925	18.611	0.00	0.00
ATOM	248	HG13	ILE	X	16	27.642	44.279	18.224	0.00	0.00
ATOM	249	CD1	ILE	X	16	29.450	44.890	17.649	0.00	0.00
ATOM	250	HD11	ILE	X	16	30.004	45.672	17.129	0.00	0.00
ATOM	251	HD12	ILE	X	16	29.604	44.016	17.016	0.00	0.00
ATOM	252	HD13	ILE	X	16	29.917	44.809	18.630	0.00	0.00
ATOM	253	C	ILE	X	16	25.369	43.924	17.098	0.00	0.00
ATOM	254	O	ILE	X	16	25.111	43.574	18.237	0.00	0.00
ATOM	255	N	ARG	X	17	25.297	43.080	16.039	0.00	0.00
ATOM	256	H	ARG	X	17	25.392	43.419	15.092	0.00	0.00
ATOM	257	CA	ARG	X	17	25.176	41.606	16.214	0.00	0.00
ATOM	258	HA	ARG	X	17	24.556	41.366	17.077	0.00	0.00
ATOM	259	CB	ARG	X	17	24.603	41.032	14.923	0.00	0.00
ATOM	260	HB2	ARG	X	17	23.714	41.589	14.626	0.00	0.00
ATOM	261	HB3	ARG	X	17	25.310	41.159	14.103	0.00	0.00
ATOM	262	CG	ARG	X	17	24.218	39.515	15.126	0.00	0.00
ATOM	263	HG2	ARG	X	17	25.099	38.901	15.312	0.00	0.00
ATOM	264	HG3	ARG	X	17	23.484	39.405	15.924	0.00	0.00
ATOM	265	CD	ARG	X	17	23.592	38.953	13.825	0.00	0.00
ATOM	266	HD2	ARG	X	17	23.393	37.881	13.850	0.00	0.00
ATOM	267	HD3	ARG	X	17	22.647	39.481	13.700	0.00	0.00
ATOM	268	NE	ARG	X	17	24.477	39.128	12.690	0.00	0.00
ATOM	269	HE	ARG	X	17	25.471	39.142	12.873	0.00	0.00
ATOM	270	CZ	ARG	X	17	24.232	38.961	11.394	0.00	0.00
ATOM	271	NH1	ARG	X	17	23.065	38.581	11.028	0.00	0.00
ATOM	272	HH11	ARG	X	17	22.373	38.454	11.753	0.00	0.00

ATOM	273	HH12	ARG	X	17	22.821	38.225	10.114	0.00	0.00
ATOM	274	NH2	ARG	X	17	25.161	39.055	10.489	0.00	0.00
ATOM	275	HH21	ARG	X	17	26.043	39.470	10.754	0.00	0.00
ATOM	276	HH22	ARG	X	17	24.896	38.844	9.538	0.00	0.00
ATOM	277	C	ARG	X	17	26.552	40.982	16.455	0.00	0.00
ATOM	278	O	ARG	X	17	27.508	41.253	15.745	0.00	0.00
ATOM	279	N	LEU	X	18	26.699	40.053	17.392	0.00	0.00
ATOM	280	H	LEU	X	18	25.945	40.004	18.062	0.00	0.00
ATOM	281	CA	LEU	X	18	27.727	39.071	17.486	0.00	0.00
ATOM	282	HA	LEU	X	18	28.535	39.293	16.788	0.00	0.00
ATOM	283	CB	LEU	X	18	28.369	39.051	18.888	0.00	0.00
ATOM	284	HB2	LEU	X	18	27.647	38.578	19.553	0.00	0.00
ATOM	285	HB3	LEU	X	18	29.259	38.433	19.008	0.00	0.00
ATOM	286	CG	LEU	X	18	28.797	40.389	19.478	0.00	0.00
ATOM	287	HG	LEU	X	18	27.990	41.122	19.465	0.00	0.00
ATOM	288	CD1	LEU	X	18	29.153	40.262	20.900	0.00	0.00
ATOM	289	HD11	LEU	X	18	29.934	40.967	21.184	0.00	0.00
ATOM	290	HD12	LEU	X	18	29.604	39.278	21.026	0.00	0.00
ATOM	291	HD13	LEU	X	18	28.211	40.404	21.430	0.00	0.00
ATOM	292	CD2	LEU	X	18	29.947	40.986	18.683	0.00	0.00
ATOM	293	HD21	LEU	X	18	30.247	41.892	19.209	0.00	0.00
ATOM	294	HD22	LEU	X	18	30.726	40.223	18.650	0.00	0.00
ATOM	295	HD23	LEU	X	18	29.593	41.242	17.684	0.00	0.00
ATOM	296	C	LEU	X	18	27.168	37.732	17.164	0.00	0.00
ATOM	297	O	LEU	X	18	26.014	37.459	17.548	0.00	0.00
ATOM	298	N	LYS	X	19	27.953	36.880	16.508	0.00	0.00
ATOM	299	H	LYS	X	19	28.916	37.122	16.319	0.00	0.00
ATOM	300	CA	LYS	X	19	27.632	35.481	16.223	0.00	0.00
ATOM	301	HA	LYS	X	19	26.548	35.360	16.246	0.00	0.00
ATOM	302	CB	LYS	X	19	28.043	35.168	14.733	0.00	0.00
ATOM	303	HB2	LYS	X	19	29.129	35.120	14.653	0.00	0.00
ATOM	304	HB3	LYS	X	19	27.747	34.141	14.519	0.00	0.00
ATOM	305	CG	LYS	X	19	27.472	35.996	13.630	0.00	0.00
ATOM	306	HG2	LYS	X	19	26.383	36.044	13.642	0.00	0.00
ATOM	307	HG3	LYS	X	19	27.831	36.994	13.883	0.00	0.00
ATOM	308	CD	LYS	X	19	27.903	35.524	12.202	0.00	0.00
ATOM	309	HD2	LYS	X	19	28.983	35.668	12.219	0.00	0.00
ATOM	310	HD3	LYS	X	19	27.680	34.461	12.113	0.00	0.00
ATOM	311	CE	LYS	X	19	27.315	36.306	11.036	0.00	0.00
ATOM	312	HE2	LYS	X	19	27.155	37.333	11.365	0.00	0.00
ATOM	313	HE3	LYS	X	19	28.064	36.400	10.250	0.00	0.00
ATOM	314	NZ	LYS	X	19	26.045	35.852	10.480	0.00	0.00
ATOM	315	HZ1	LYS	X	19	25.766	36.373	9.661	0.00	0.00
ATOM	316	HZ2	LYS	X	19	26.046	34.850	10.350	0.00	0.00
ATOM	317	HZ3	LYS	X	19	25.355	35.978	11.206	0.00	0.00
ATOM	318	C	LYS	X	19	28.194	34.400	17.186	0.00	0.00
ATOM	319	O	LYS	X	19	29.217	34.589	17.815	0.00	0.00
ATOM	320	N	THR	X	20	27.348	33.359	17.496	0.00	0.00
ATOM	321	H	THR	X	20	26.506	33.187	16.965	0.00	0.00
ATOM	322	CA	THR	X	20	27.724	32.204	18.353	0.00	0.00
ATOM	323	HA	THR	X	20	28.766	31.990	18.113	0.00	0.00
ATOM	324	CB	THR	X	20	27.650	32.454	19.903	0.00	0.00
ATOM	325	HB	THR	X	20	27.287	31.585	20.451	0.00	0.00
ATOM	326	CG2	THR	X	20	29.146	32.567	20.392	0.00	0.00
ATOM	327	HG21	THR	X	20	29.827	31.756	20.132	0.00	0.00
ATOM	328	HG22	THR	X	20	29.018	32.598	21.474	0.00	0.00
ATOM	329	HG23	THR	X	20	29.595	33.485	20.012	0.00	0.00
ATOM	330	OG1	THR	X	20	26.914	33.584	20.211	0.00	0.00
ATOM	331	HG1	THR	X	20	25.961	33.493	20.152	0.00	0.00
ATOM	332	C	THR	X	20	26.949	30.978	17.936	0.00	0.00
ATOM	333	O	THR	X	20	25.807	31.124	17.585	0.00	0.00
ATOM	334	N	PRO	X	21	27.454	29.726	17.986	0.00	0.00
ATOM	335	CD	PRO	X	21	28.668	29.339	18.661	0.00	0.00
ATOM	336	HD2	PRO	X	21	28.763	29.816	19.636	0.00	0.00
ATOM	337	HD3	PRO	X	21	29.489	29.616	17.999	0.00	0.00
ATOM	338	CG	PRO	X	21	28.612	27.894	18.893	0.00	0.00
ATOM	339	HG2	PRO	X	21	28.177	27.488	19.807	0.00	0.00

ATOM	340	HG3	PRO	X	21	29.627	27.532	18.729	0.00	0.00
ATOM	341	CB	PRO	X	21	27.786	27.375	17.710	0.00	0.00
ATOM	342	HB2	PRO	X	21	27.258	26.437	17.877	0.00	0.00
ATOM	343	HB3	PRO	X	21	28.519	27.194	16.924	0.00	0.00
ATOM	344	CA	PRO	X	21	26.836	28.576	17.415	0.00	0.00
ATOM	345	HA	PRO	X	21	26.878	28.740	16.338	0.00	0.00
ATOM	346	C	PRO	X	21	25.380	28.302	17.832	0.00	0.00
ATOM	347	O	PRO	X	21	24.636	28.003	16.887	0.00	0.00
ATOM	348	N	GLY	X	22	25.009	28.357	19.070	0.00	0.00
ATOM	349	H	GLY	X	22	25.617	28.747	19.776	0.00	0.00
ATOM	350	CA	GLY	X	22	23.600	28.131	19.529	0.00	0.00
ATOM	351	HA2	GLY	X	22	23.062	27.513	18.810	0.00	0.00
ATOM	352	HA3	GLY	X	22	23.591	27.632	20.498	0.00	0.00
ATOM	353	C	GLY	X	22	22.706	29.379	19.596	0.00	0.00
ATOM	354	O	GLY	X	22	21.684	29.348	20.287	0.00	0.00
ATOM	355	N	GLY	X	23	22.992	30.386	18.760	0.00	0.00
ATOM	356	H	GLY	X	23	23.845	30.284	18.228	0.00	0.00
ATOM	357	CA	GLY	X	23	22.248	31.682	18.710	0.00	0.00
ATOM	358	HA2	GLY	X	23	21.666	31.691	17.788	0.00	0.00
ATOM	359	HA3	GLY	X	23	21.608	31.825	19.580	0.00	0.00
ATOM	360	C	GLY	X	23	23.174	32.933	18.740	0.00	0.00
ATOM	361	O	GLY	X	23	24.107	32.969	19.490	0.00	0.00
ATOM	362	N	PRO	X	24	22.865	33.917	17.909	0.00	0.00
ATOM	363	CD	PRO	X	24	21.633	34.201	17.118	0.00	0.00
ATOM	364	HD2	PRO	X	24	20.712	34.009	17.669	0.00	0.00
ATOM	365	HD3	PRO	X	24	21.594	33.563	16.235	0.00	0.00
ATOM	366	CG	PRO	X	24	21.586	35.667	16.774	0.00	0.00
ATOM	367	HG2	PRO	X	24	21.160	36.163	17.647	0.00	0.00
ATOM	368	HG3	PRO	X	24	21.020	35.929	15.880	0.00	0.00
ATOM	369	CB	PRO	X	24	23.144	35.986	16.792	0.00	0.00
ATOM	370	HB2	PRO	X	24	23.339	37.025	17.056	0.00	0.00
ATOM	371	HB3	PRO	X	24	23.603	35.610	15.877	0.00	0.00
ATOM	372	CA	PRO	X	24	23.648	35.194	18.013	0.00	0.00
ATOM	373	HA	PRO	X	24	24.725	35.169	17.850	0.00	0.00
ATOM	374	C	PRO	X	24	23.348	35.993	19.315	0.00	0.00
ATOM	375	O	PRO	X	24	22.543	35.623	20.129	0.00	0.00
ATOM	376	N	VAL	X	25	24.031	37.162	19.337	0.00	0.00
ATOM	377	H	VAL	X	25	24.586	37.434	18.538	0.00	0.00
ATOM	378	CA	VAL	X	25	23.949	38.102	20.519	0.00	0.00
ATOM	379	HA	VAL	X	25	23.077	37.996	21.165	0.00	0.00
ATOM	380	CB	VAL	X	25	25.209	37.881	21.405	0.00	0.00
ATOM	381	HB	VAL	X	25	26.076	37.997	20.755	0.00	0.00
ATOM	382	CG1	VAL	X	25	25.241	38.833	22.590	0.00	0.00
ATOM	383	HG11	VAL	X	25	25.939	38.463	23.341	0.00	0.00
ATOM	384	HG12	VAL	X	25	25.598	39.827	22.321	0.00	0.00
ATOM	385	HG13	VAL	X	25	24.370	38.857	23.246	0.00	0.00
ATOM	386	CG2	VAL	X	25	25.171	36.447	22.003	0.00	0.00
ATOM	387	HG21	VAL	X	25	24.190	36.274	22.445	0.00	0.00
ATOM	388	HG22	VAL	X	25	25.982	36.364	22.727	0.00	0.00
ATOM	389	HG23	VAL	X	25	25.308	35.648	21.274	0.00	0.00
ATOM	390	C	VAL	X	25	23.962	39.570	20.116	0.00	0.00
ATOM	391	O	VAL	X	25	24.468	39.935	19.071	0.00	0.00
ATOM	392	N	SER	X	26	23.365	40.421	20.970	0.00	0.00
ATOM	393	H	SER	X	26	22.837	40.034	21.740	0.00	0.00
ATOM	394	CA	SER	X	26	23.298	41.885	20.798	0.00	0.00
ATOM	395	HA	SER	X	26	23.644	42.122	19.792	0.00	0.00
ATOM	396	CB	SER	X	26	21.933	42.474	21.217	0.00	0.00
ATOM	397	HB2	SER	X	26	21.770	42.510	22.294	0.00	0.00
ATOM	398	HB3	SER	X	26	21.815	43.438	20.721	0.00	0.00
ATOM	399	OG	SER	X	26	20.828	41.772	20.807	0.00	0.00
ATOM	400	HG	SER	X	26	20.584	41.270	21.588	0.00	0.00
ATOM	401	C	SER	X	26	24.382	42.514	21.655	0.00	0.00
ATOM	402	O	SER	X	26	24.479	42.127	22.812	0.00	0.00
ATOM	403	N	ALA	X	27	25.231	43.427	21.218	0.00	0.00
ATOM	404	H	ALA	X	27	25.216	43.596	20.223	0.00	0.00
ATOM	405	CA	ALA	X	27	26.292	44.000	21.970	0.00	0.00
ATOM	406	HA	ALA	X	27	26.222	43.919	23.055	0.00	0.00

ATOM	407	CB	ALA	X	27	27.630	43.466	21.504	0.00	0.00
ATOM	408	HB1	ALA	X	27	27.618	42.387	21.657	0.00	0.00
ATOM	409	HB2	ALA	X	27	28.443	43.926	22.067	0.00	0.00
ATOM	410	HB3	ALA	X	27	27.624	43.699	20.439	0.00	0.00
ATOM	411	C	ALA	X	27	26.308	45.558	21.784	0.00	0.00
ATOM	412	O	ALA	X	27	26.233	46.087	20.680	0.00	0.00
ATOM	413	N	PHE	X	28	26.402	46.272	22.883	0.00	0.00
ATOM	414	H	PHE	X	28	26.550	45.806	23.767	0.00	0.00
ATOM	415	CA	PHE	X	28	26.291	47.730	22.878	0.00	0.00
ATOM	416	HA	PHE	X	28	26.291	48.231	21.910	0.00	0.00
ATOM	417	CB	PHE	X	28	25.013	48.089	23.563	0.00	0.00
ATOM	418	HB2	PHE	X	28	24.861	47.697	24.569	0.00	0.00
ATOM	419	HB3	PHE	X	28	24.933	49.171	23.667	0.00	0.00
ATOM	420	CG	PHE	X	28	23.704	47.587	22.901	0.00	0.00
ATOM	421	CD1	PHE	X	28	23.160	46.348	23.098	0.00	0.00
ATOM	422	HD1	PHE	X	28	23.653	45.619	23.725	0.00	0.00
ATOM	423	CE1	PHE	X	28	21.823	46.077	22.635	0.00	0.00
ATOM	424	HE1	PHE	X	28	21.421	45.093	22.825	0.00	0.00
ATOM	425	CZ	PHE	X	28	21.066	47.020	21.975	0.00	0.00
ATOM	426	HZ	PHE	X	28	20.026	46.786	21.804	0.00	0.00
ATOM	427	CE2	PHE	X	28	21.625	48.322	21.814	0.00	0.00
ATOM	428	HE2	PHE	X	28	21.124	49.176	21.383	0.00	0.00
ATOM	429	CD2	PHE	X	28	22.913	48.586	22.228	0.00	0.00
ATOM	430	HD2	PHE	X	28	23.320	49.577	22.088	0.00	0.00
ATOM	431	C	PHE	X	28	27.551	48.187	23.692	0.00	0.00
ATOM	432	O	PHE	X	28	27.528	47.917	24.921	0.00	0.00
ATOM	433	N	LEU	X	29	28.552	48.821	23.020	0.00	0.00
ATOM	434	H	LEU	X	29	28.310	49.107	22.083	0.00	0.00
ATOM	435	CA	LEU	X	29	29.905	49.124	23.562	0.00	0.00
ATOM	436	HA	LEU	X	29	29.973	48.702	24.565	0.00	0.00
ATOM	437	CB	LEU	X	29	30.980	48.451	22.658	0.00	0.00
ATOM	438	HB2	LEU	X	29	31.064	49.163	21.838	0.00	0.00
ATOM	439	HB3	LEU	X	29	31.920	48.505	23.207	0.00	0.00
ATOM	440	CG	LEU	X	29	30.799	46.973	22.186	0.00	0.00
ATOM	441	HG	LEU	X	29	29.858	46.937	21.637	0.00	0.00
ATOM	442	CD1	LEU	X	29	31.847	46.610	21.219	0.00	0.00
ATOM	443	HD11	LEU	X	29	31.492	45.768	20.625	0.00	0.00
ATOM	444	HD12	LEU	X	29	32.695	46.362	21.859	0.00	0.00
ATOM	445	HD13	LEU	X	29	32.080	47.395	20.499	0.00	0.00
ATOM	446	CD2	LEU	X	29	30.869	45.877	23.280	0.00	0.00
ATOM	447	HD21	LEU	X	29	31.505	46.245	24.085	0.00	0.00
ATOM	448	HD22	LEU	X	29	29.846	45.720	23.622	0.00	0.00
ATOM	449	HD23	LEU	X	29	31.238	44.921	22.911	0.00	0.00
ATOM	450	C	LEU	X	29	30.141	50.625	23.730	0.00	0.00
ATOM	451	O	LEU	X	29	29.638	51.434	22.968	0.00	0.00
ATOM	452	N	GLY	X	30	30.824	51.066	24.811	0.00	0.00
ATOM	453	H	GLY	X	30	31.045	50.349	25.487	0.00	0.00
ATOM	454	CA	GLY	X	30	31.269	52.446	24.991	0.00	0.00
ATOM	455	HA2	GLY	X	30	31.973	52.476	25.823	0.00	0.00
ATOM	456	HA3	GLY	X	30	31.769	52.831	24.103	0.00	0.00
ATOM	457	C	GLY	X	30	30.194	53.515	25.315	0.00	0.00
ATOM	458	O	GLY	X	30	30.195	54.614	24.706	0.00	0.00
ATOM	459	N	ILE	X	31	29.284	53.193	26.193	0.00	0.00
ATOM	460	H	ILE	X	31	29.587	52.427	26.778	0.00	0.00
ATOM	461	CA	ILE	X	31	28.179	54.012	26.685	0.00	0.00
ATOM	462	HA	ILE	X	31	27.841	54.646	25.866	0.00	0.00
ATOM	463	CB	ILE	X	31	26.988	53.044	27.091	0.00	0.00
ATOM	464	HB	ILE	X	31	27.405	52.422	27.883	0.00	0.00
ATOM	465	CG2	ILE	X	31	25.757	53.897	27.547	0.00	0.00
ATOM	466	HG21	ILE	X	31	26.055	54.536	28.379	0.00	0.00
ATOM	467	HG22	ILE	X	31	24.853	53.299	27.657	0.00	0.00
ATOM	468	HG23	ILE	X	31	25.545	54.659	26.797	0.00	0.00
ATOM	469	CG1	ILE	X	31	26.492	52.143	25.834	0.00	0.00
ATOM	470	HG12	ILE	X	31	25.779	52.722	25.247	0.00	0.00
ATOM	471	HG13	ILE	X	31	27.351	51.918	25.201	0.00	0.00
ATOM	472	CD1	ILE	X	31	25.727	50.835	26.227	0.00	0.00
ATOM	473	HD11	ILE	X	31	26.446	50.080	26.545	0.00	0.00

ATOM	474	HD12	ILE	X	31	25.080	50.547	25.399	0.00	0.00
ATOM	475	HD13	ILE	X	31	25.133	51.037	27.119	0.00	0.00
ATOM	476	C	ILE	X	31	28.696	54.841	27.830	0.00	0.00
ATOM	477	O	ILE	X	31	29.157	54.284	28.859	0.00	0.00
ATOM	478	N	PRO	X	32	28.649	56.212	27.835	0.00	0.00
ATOM	479	CD	PRO	X	32	28.365	57.044	26.649	0.00	0.00
ATOM	480	HD2	PRO	X	32	27.442	56.762	26.142	0.00	0.00
ATOM	481	HD3	PRO	X	32	29.168	56.945	25.918	0.00	0.00
ATOM	482	CG	PRO	X	32	28.396	58.423	27.210	0.00	0.00
ATOM	483	HG2	PRO	X	32	27.421	58.833	27.474	0.00	0.00
ATOM	484	HG3	PRO	X	32	28.707	59.083	26.400	0.00	0.00
ATOM	485	CB	PRO	X	32	29.393	58.343	28.372	0.00	0.00
ATOM	486	HB2	PRO	X	32	29.263	59.226	28.998	0.00	0.00
ATOM	487	HB3	PRO	X	32	30.425	58.248	28.036	0.00	0.00
ATOM	488	CA	PRO	X	32	29.099	57.018	28.994	0.00	0.00
ATOM	489	HA	PRO	X	32	29.981	56.616	29.493	0.00	0.00
ATOM	490	C	PRO	X	32	27.979	57.123	30.011	0.00	0.00
ATOM	491	O	PRO	X	32	26.938	57.687	29.703	0.00	0.00
ATOM	492	N	PHE	X	33	28.304	56.813	31.292	0.00	0.00
ATOM	493	H	PHE	X	33	29.239	56.452	31.415	0.00	0.00
ATOM	494	CA	PHE	X	33	27.373	56.888	32.383	0.00	0.00
ATOM	495	HA	PHE	X	33	26.405	57.083	31.920	0.00	0.00
ATOM	496	CB	PHE	X	33	27.310	55.570	33.184	0.00	0.00
ATOM	497	HB2	PHE	X	33	26.486	55.710	33.883	0.00	0.00
ATOM	498	HB3	PHE	X	33	27.075	54.754	32.501	0.00	0.00
ATOM	499	CG	PHE	X	33	28.596	55.251	33.947	0.00	0.00
ATOM	500	CD1	PHE	X	33	28.860	56.016	35.128	0.00	0.00
ATOM	501	HD1	PHE	X	33	28.154	56.723	35.540	0.00	0.00
ATOM	502	CE1	PHE	X	33	30.033	55.772	35.841	0.00	0.00
ATOM	503	HE1	PHE	X	33	30.249	56.349	36.728	0.00	0.00
ATOM	504	CZ	PHE	X	33	30.940	54.814	35.405	0.00	0.00
ATOM	505	HZ	PHE	X	33	31.865	54.590	35.915	0.00	0.00
ATOM	506	CE2	PHE	X	33	30.700	54.109	34.212	0.00	0.00
ATOM	507	HE2	PHE	X	33	31.319	53.290	33.876	0.00	0.00
ATOM	508	CD2	PHE	X	33	29.542	54.364	33.428	0.00	0.00
ATOM	509	HD2	PHE	X	33	29.235	53.705	32.629	0.00	0.00
ATOM	510	C	PHE	X	33	27.545	58.129	33.316	0.00	0.00
ATOM	511	O	PHE	X	33	26.836	58.297	34.281	0.00	0.00
ATOM	512	N	ALA	X	34	28.399	59.032	32.851	0.00	0.00
ATOM	513	H	ALA	X	34	28.948	58.844	32.024	0.00	0.00
ATOM	514	CA	ALA	X	34	28.886	60.104	33.714	0.00	0.00
ATOM	515	HA	ALA	X	34	28.098	60.488	34.362	0.00	0.00
ATOM	516	CB	ALA	X	34	29.970	59.572	34.663	0.00	0.00
ATOM	517	HB1	ALA	X	34	30.339	60.317	35.368	0.00	0.00
ATOM	518	HB2	ALA	X	34	30.807	59.137	34.116	0.00	0.00
ATOM	519	HB3	ALA	X	34	29.594	58.770	35.298	0.00	0.00
ATOM	520	C	ALA	X	34	29.407	61.259	32.886	0.00	0.00
ATOM	521	O	ALA	X	34	29.831	60.936	31.770	0.00	0.00
ATOM	522	N	GLU	X	35	29.306	62.478	33.411	0.00	0.00
ATOM	523	H	GLU	X	35	28.824	62.588	34.292	0.00	0.00
ATOM	524	CA	GLU	X	35	30.171	63.639	33.005	0.00	0.00
ATOM	525	HA	GLU	X	35	29.985	63.815	31.946	0.00	0.00
ATOM	526	CB	GLU	X	35	29.761	64.869	33.733	0.00	0.00
ATOM	527	HB2	GLU	X	35	29.912	64.676	34.795	0.00	0.00
ATOM	528	HB3	GLU	X	35	30.384	65.729	33.486	0.00	0.00
ATOM	529	CG	GLU	X	35	28.234	65.230	33.485	0.00	0.00
ATOM	530	HG2	GLU	X	35	27.640	64.323	33.590	0.00	0.00
ATOM	531	HG3	GLU	X	35	27.922	66.023	34.165	0.00	0.00
ATOM	532	CD	GLU	X	35	27.970	65.735	32.105	0.00	0.00
ATOM	533	OE1	GLU	X	35	27.058	65.154	31.485	0.00	0.00
ATOM	534	OE2	GLU	X	35	28.759	66.550	31.560	0.00	0.00
ATOM	535	C	GLU	X	35	31.558	63.344	33.370	0.00	0.00
ATOM	536	O	GLU	X	35	31.763	62.847	34.520	0.00	0.00
ATOM	537	N	PRO	X	36	32.529	63.485	32.462	0.00	0.00
ATOM	538	CD	PRO	X	36	32.407	64.027	31.121	0.00	0.00
ATOM	539	HD2	PRO	X	36	32.071	65.062	31.175	0.00	0.00
ATOM	540	HD3	PRO	X	36	31.687	63.347	30.666	0.00	0.00

ATOM	541	CG	PRO	X	36	33.747	63.896	30.423	0.00	0.00
ATOM	542	HG2	PRO	X	36	34.274	64.841	30.559	0.00	0.00
ATOM	543	HG3	PRO	X	36	33.699	63.735	29.346	0.00	0.00
ATOM	544	CB	PRO	X	36	34.389	62.746	31.145	0.00	0.00
ATOM	545	HB2	PRO	X	36	35.475	62.719	31.060	0.00	0.00
ATOM	546	HB3	PRO	X	36	33.973	61.882	30.628	0.00	0.00
ATOM	547	CA	PRO	X	36	33.822	62.858	32.559	0.00	0.00
ATOM	548	HA	PRO	X	36	33.545	61.890	32.977	0.00	0.00
ATOM	549	C	PRO	X	36	34.793	63.600	33.567	0.00	0.00
ATOM	550	O	PRO	X	36	34.614	64.727	33.942	0.00	0.00
ATOM	551	N	PRO	X	37	35.711	62.752	34.070	0.00	0.00
ATOM	552	CD	PRO	X	37	35.849	61.314	33.853	0.00	0.00
ATOM	553	HD2	PRO	X	37	36.328	61.219	32.879	0.00	0.00
ATOM	554	HD3	PRO	X	37	34.884	60.806	33.855	0.00	0.00
ATOM	555	CG	PRO	X	37	36.639	60.768	34.983	0.00	0.00
ATOM	556	HG2	PRO	X	37	37.699	60.641	34.761	0.00	0.00
ATOM	557	HG3	PRO	X	37	36.344	59.734	35.160	0.00	0.00
ATOM	558	CB	PRO	X	37	36.380	61.759	36.132	0.00	0.00
ATOM	559	HB2	PRO	X	37	37.094	61.669	36.951	0.00	0.00
ATOM	560	HB3	PRO	X	37	35.368	61.555	36.479	0.00	0.00
ATOM	561	CA	PRO	X	37	36.471	62.995	35.320	0.00	0.00
ATOM	562	HA	PRO	X	37	35.986	63.839	35.810	0.00	0.00
ATOM	563	C	PRO	X	37	37.949	63.431	35.186	0.00	0.00
ATOM	564	O	PRO	X	37	38.809	63.201	35.986	0.00	0.00
ATOM	565	N	MET	X	38	38.245	64.021	33.994	0.00	0.00
ATOM	566	H	MET	X	38	37.530	64.193	33.302	0.00	0.00
ATOM	567	CA	MET	X	38	39.586	64.400	33.569	0.00	0.00
ATOM	568	HA	MET	X	38	40.312	63.638	33.856	0.00	0.00
ATOM	569	CB	MET	X	38	39.665	64.518	31.983	0.00	0.00
ATOM	570	HB2	MET	X	38	40.704	64.634	31.674	0.00	0.00
ATOM	571	HB3	MET	X	38	39.436	63.537	31.567	0.00	0.00
ATOM	572	CG	MET	X	38	38.699	65.551	31.327	0.00	0.00
ATOM	573	HG2	MET	X	38	38.844	66.381	32.018	0.00	0.00
ATOM	574	HG3	MET	X	38	38.987	65.832	30.315	0.00	0.00
ATOM	575	SD	MET	X	38	36.932	65.155	31.374	0.00	0.00
ATOM	576	CE	MET	X	38	36.340	66.456	30.291	0.00	0.00
ATOM	577	HE1	MET	X	38	35.257	66.537	30.200	0.00	0.00
ATOM	578	HE2	MET	X	38	36.645	67.452	30.611	0.00	0.00
ATOM	579	HE3	MET	X	38	36.672	66.264	29.271	0.00	0.00
ATOM	580	C	MET	X	38	40.063	65.587	34.407	0.00	0.00
ATOM	581	O	MET	X	38	39.259	66.415	34.844	0.00	0.00
ATOM	582	N	GLY	X	39	41.391	65.725	34.564	0.00	0.00
ATOM	583	H	GLY	X	39	42.026	65.001	34.259	0.00	0.00
ATOM	584	CA	GLY	X	39	42.097	66.900	35.163	0.00	0.00
ATOM	585	HA2	GLY	X	39	43.095	66.549	35.424	0.00	0.00
ATOM	586	HA3	GLY	X	39	42.039	67.608	34.336	0.00	0.00
ATOM	587	C	GLY	X	39	41.401	67.572	36.382	0.00	0.00
ATOM	588	O	GLY	X	39	41.658	67.132	37.498	0.00	0.00
ATOM	589	N	PRO	X	40	40.644	68.646	36.200	0.00	0.00
ATOM	590	CD	PRO	X	40	40.407	69.371	34.946	0.00	0.00
ATOM	591	HD2	PRO	X	40	39.677	68.805	34.367	0.00	0.00
ATOM	592	HD3	PRO	X	40	41.313	69.685	34.427	0.00	0.00
ATOM	593	CG	PRO	X	40	39.679	70.660	35.387	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.123	71.040	34.530	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.398	71.373	35.790	0.00	0.00
ATOM	596	CB	PRO	X	40	38.859	70.191	36.598	0.00	0.00
ATOM	597	HB2	PRO	X	40	38.050	69.675	36.081	0.00	0.00
ATOM	598	HB3	PRO	X	40	38.547	71.092	37.127	0.00	0.00
ATOM	599	CA	PRO	X	40	39.874	69.238	37.274	0.00	0.00
ATOM	600	HA	PRO	X	40	40.620	69.807	37.829	0.00	0.00
ATOM	601	C	PRO	X	40	39.100	68.252	38.135	0.00	0.00
ATOM	602	O	PRO	X	40	39.065	68.350	39.352	0.00	0.00
ATOM	603	N	ARG	X	41	38.448	67.245	37.588	0.00	0.00
ATOM	604	H	ARG	X	41	38.646	66.996	36.629	0.00	0.00
ATOM	605	CA	ARG	X	41	37.764	66.281	38.450	0.00	0.00
ATOM	606	HA	ARG	X	41	37.398	66.688	39.393	0.00	0.00
ATOM	607	CB	ARG	X	41	36.527	65.705	37.718	0.00	0.00

ATOM	608	HB2	ARG	X	41	36.828	65.697	36.670	0.00	0.00
ATOM	609	HB3	ARG	X	41	36.311	64.703	38.090	0.00	0.00
ATOM	610	CG	ARG	X	41	35.226	66.578	37.730	0.00	0.00
ATOM	611	HG2	ARG	X	41	34.743	66.399	38.691	0.00	0.00
ATOM	612	HG3	ARG	X	41	35.382	67.655	37.663	0.00	0.00
ATOM	613	CD	ARG	X	41	34.219	66.098	36.668	0.00	0.00
ATOM	614	HD2	ARG	X	41	34.779	66.222	35.741	0.00	0.00
ATOM	615	HD3	ARG	X	41	33.896	65.062	36.772	0.00	0.00
ATOM	616	NE	ARG	X	41	33.063	66.947	36.610	0.00	0.00
ATOM	617	HE	ARG	X	41	32.723	67.416	37.437	0.00	0.00
ATOM	618	CZ	ARG	X	41	32.442	67.325	35.484	0.00	0.00
ATOM	619	NH1	ARG	X	41	32.742	66.956	34.229	0.00	0.00
ATOM	620	HH11	ARG	X	41	33.526	66.341	34.064	0.00	0.00
ATOM	621	HH12	ARG	X	41	32.371	67.304	33.357	0.00	0.00
ATOM	622	NH2	ARG	X	41	31.335	68.050	35.622	0.00	0.00
ATOM	623	HH21	ARG	X	41	31.026	68.400	36.518	0.00	0.00
ATOM	624	HH22	ARG	X	41	30.798	68.294	34.802	0.00	0.00
ATOM	625	C	ARG	X	41	38.666	65.160	38.848	0.00	0.00
ATOM	626	O	ARG	X	41	38.214	64.156	39.466	0.00	0.00
ATOM	627	N	ARG	X	42	39.887	65.160	38.392	0.00	0.00
ATOM	628	H	ARG	X	42	40.274	65.969	37.926	0.00	0.00
ATOM	629	CA	ARG	X	42	40.854	64.060	38.747	0.00	0.00
ATOM	630	HA	ARG	X	42	40.437	63.090	38.475	0.00	0.00
ATOM	631	CB	ARG	X	42	42.222	64.160	38.026	0.00	0.00
ATOM	632	HB2	ARG	X	42	42.075	64.483	36.995	0.00	0.00
ATOM	633	HB3	ARG	X	42	42.782	64.894	38.606	0.00	0.00
ATOM	634	CG	ARG	X	42	42.958	62.862	38.145	0.00	0.00
ATOM	635	HG2	ARG	X	42	42.711	62.394	39.098	0.00	0.00
ATOM	636	HG3	ARG	X	42	42.617	62.156	37.388	0.00	0.00
ATOM	637	CD	ARG	X	42	44.455	63.009	37.894	0.00	0.00
ATOM	638	HD2	ARG	X	42	44.887	63.704	38.615	0.00	0.00
ATOM	639	HD3	ARG	X	42	44.829	62.028	38.187	0.00	0.00
ATOM	640	NE	ARG	X	42	44.778	63.555	36.536	0.00	0.00
ATOM	641	HE	ARG	X	42	44.044	63.478	35.847	0.00	0.00
ATOM	642	CZ	ARG	X	42	45.850	64.181	36.075	0.00	0.00
ATOM	643	NH1	ARG	X	42	46.890	64.459	36.817	0.00	0.00
ATOM	644	HH11	ARG	X	42	46.817	64.583	37.817	0.00	0.00
ATOM	645	HH12	ARG	X	42	47.704	64.776	36.310	0.00	0.00
ATOM	646	NH2	ARG	X	42	45.924	64.341	34.758	0.00	0.00
ATOM	647	HH21	ARG	X	42	45.209	63.917	34.186	0.00	0.00
ATOM	648	HH22	ARG	X	42	46.554	64.920	34.221	0.00	0.00
ATOM	649	C	ARG	X	42	41.083	64.006	40.248	0.00	0.00
ATOM	650	O	ARG	X	42	41.410	65.023	40.825	0.00	0.00
ATOM	651	N	PHE	X	43	40.803	62.839	40.807	0.00	0.00
ATOM	652	H	PHE	X	43	40.536	62.098	40.174	0.00	0.00
ATOM	653	CA	PHE	X	43	40.827	62.508	42.209	0.00	0.00
ATOM	654	HA	PHE	X	43	40.903	61.422	42.266	0.00	0.00
ATOM	655	CB	PHE	X	43	41.894	63.218	43.092	0.00	0.00
ATOM	656	HB2	PHE	X	43	41.535	64.234	43.261	0.00	0.00
ATOM	657	HB3	PHE	X	43	42.074	62.727	44.048	0.00	0.00
ATOM	658	CG	PHE	X	43	43.296	63.290	42.394	0.00	0.00
ATOM	659	CD1	PHE	X	43	43.807	62.138	41.799	0.00	0.00
ATOM	660	HD1	PHE	X	43	43.216	61.237	41.732	0.00	0.00
ATOM	661	CE1	PHE	X	43	45.015	62.106	41.091	0.00	0.00
ATOM	662	HE1	PHE	X	43	45.365	61.151	40.727	0.00	0.00
ATOM	663	CZ	PHE	X	43	45.684	63.278	40.902	0.00	0.00
ATOM	664	HZ	PHE	X	43	46.567	63.323	40.282	0.00	0.00
ATOM	665	CE2	PHE	X	43	45.316	64.406	41.630	0.00	0.00
ATOM	666	HE2	PHE	X	43	45.883	65.323	41.566	0.00	0.00
ATOM	667	CD2	PHE	X	43	44.119	64.419	42.404	0.00	0.00
ATOM	668	HD2	PHE	X	43	43.940	65.215	43.111	0.00	0.00
ATOM	669	C	PHE	X	43	39.417	62.681	42.933	0.00	0.00
ATOM	670	O	PHE	X	43	39.173	62.307	44.017	0.00	0.00
ATOM	671	N	LEU	X	44	38.523	63.394	42.276	0.00	0.00
ATOM	672	H	LEU	X	44	38.660	63.684	41.318	0.00	0.00
ATOM	673	CA	LEU	X	44	37.263	63.858	42.879	0.00	0.00
ATOM	674	HA	LEU	X	44	37.155	63.589	43.930	0.00	0.00

ATOM	675	CB	LEU	X	44	37.288	65.405	42.773	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.625	65.589	41.753	0.00	0.00
ATOM	677	HB3	LEU	X	44	36.272	65.709	43.025	0.00	0.00
ATOM	678	CG	LEU	X	44	38.218	66.035	43.806	0.00	0.00
ATOM	679	HG	LEU	X	44	39.190	65.558	43.684	0.00	0.00
ATOM	680	CD1	LEU	X	44	38.420	67.520	43.379	0.00	0.00
ATOM	681	HD11	LEU	X	44	39.230	67.929	43.983	0.00	0.00
ATOM	682	HD12	LEU	X	44	37.485	68.040	43.591	0.00	0.00
ATOM	683	HD13	LEU	X	44	38.679	67.632	42.326	0.00	0.00
ATOM	684	CD2	LEU	X	44	37.655	65.973	45.277	0.00	0.00
ATOM	685	HD21	LEU	X	44	36.597	66.224	45.359	0.00	0.00
ATOM	686	HD22	LEU	X	44	37.676	64.934	45.608	0.00	0.00
ATOM	687	HD23	LEU	X	44	38.246	66.603	45.942	0.00	0.00
ATOM	688	C	LEU	X	44	35.957	63.331	42.229	0.00	0.00
ATOM	689	O	LEU	X	44	36.008	62.781	41.091	0.00	0.00
ATOM	690	N	PRO	X	45	34.758	63.455	42.905	0.00	0.00
ATOM	691	CD	PRO	X	45	34.587	64.049	44.200	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.628	65.137	44.154	0.00	0.00
ATOM	693	HD3	PRO	X	45	35.256	63.711	44.991	0.00	0.00
ATOM	694	CG	PRO	X	45	33.213	63.761	44.762	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.875	64.603	45.366	0.00	0.00
ATOM	696	HG3	PRO	X	45	33.269	62.868	45.384	0.00	0.00
ATOM	697	CB	PRO	X	45	32.494	63.624	43.422	0.00	0.00
ATOM	698	HB2	PRO	X	45	32.358	64.661	43.116	0.00	0.00
ATOM	699	HB3	PRO	X	45	31.512	63.166	43.534	0.00	0.00
ATOM	700	CA	PRO	X	45	33.460	62.875	42.490	0.00	0.00
ATOM	701	HA	PRO	X	45	33.473	61.838	42.827	0.00	0.00
ATOM	702	C	PRO	X	45	33.066	63.108	41.047	0.00	0.00
ATOM	703	O	PRO	X	45	33.244	64.170	40.368	0.00	0.00
ATOM	704	N	PRO	X	46	32.309	62.119	40.496	0.00	0.00
ATOM	705	CD	PRO	X	46	32.151	60.785	41.035	0.00	0.00
ATOM	706	HD2	PRO	X	46	31.720	60.828	42.035	0.00	0.00
ATOM	707	HD3	PRO	X	46	33.100	60.248	41.003	0.00	0.00
ATOM	708	CG	PRO	X	46	31.243	60.010	40.002	0.00	0.00
ATOM	709	HG2	PRO	X	46	30.178	60.084	40.223	0.00	0.00
ATOM	710	HG3	PRO	X	46	31.627	59.017	39.767	0.00	0.00
ATOM	711	CB	PRO	X	46	31.456	60.832	38.765	0.00	0.00
ATOM	712	HB2	PRO	X	46	30.742	60.611	37.971	0.00	0.00
ATOM	713	HB3	PRO	X	46	32.436	60.547	38.384	0.00	0.00
ATOM	714	CA	PRO	X	46	31.578	62.327	39.210	0.00	0.00
ATOM	715	HA	PRO	X	46	32.184	62.841	38.464	0.00	0.00
ATOM	716	C	PRO	X	46	30.222	62.949	39.256	0.00	0.00
ATOM	717	O	PRO	X	46	29.738	63.257	40.337	0.00	0.00
ATOM	718	N	GLU	X	47	29.461	63.110	38.092	0.00	0.00
ATOM	719	H	GLU	X	47	29.915	62.882	37.218	0.00	0.00
ATOM	720	CA	GLU	X	47	27.972	63.265	38.081	0.00	0.00
ATOM	721	HA	GLU	X	47	27.568	62.747	38.951	0.00	0.00
ATOM	722	CB	GLU	X	47	27.661	64.783	38.315	0.00	0.00
ATOM	723	HB2	GLU	X	47	26.724	64.820	38.870	0.00	0.00
ATOM	724	HB3	GLU	X	47	28.495	65.191	38.886	0.00	0.00
ATOM	725	CG	GLU	X	47	27.534	65.578	37.063	0.00	0.00
ATOM	726	HG2	GLU	X	47	28.411	65.245	36.508	0.00	0.00
ATOM	727	HG3	GLU	X	47	26.610	65.343	36.535	0.00	0.00
ATOM	728	CD	GLU	X	47	27.518	67.076	37.293	0.00	0.00
ATOM	729	OE1	GLU	X	47	28.545	67.828	37.310	0.00	0.00
ATOM	730	OE2	GLU	X	47	26.388	67.546	37.459	0.00	0.00
ATOM	731	C	GLU	X	47	27.325	62.677	36.820	0.00	0.00
ATOM	732	O	GLU	X	47	28.041	62.292	35.877	0.00	0.00
ATOM	733	N	PRO	X	48	25.984	62.450	36.874	0.00	0.00
ATOM	734	CD	PRO	X	48	25.101	62.558	38.068	0.00	0.00
ATOM	735	HD2	PRO	X	48	24.892	63.614	38.238	0.00	0.00
ATOM	736	HD3	PRO	X	48	25.376	62.163	39.046	0.00	0.00
ATOM	737	CG	PRO	X	48	23.767	61.882	37.732	0.00	0.00
ATOM	738	HG2	PRO	X	48	22.945	62.497	38.099	0.00	0.00
ATOM	739	HG3	PRO	X	48	23.808	60.879	38.158	0.00	0.00
ATOM	740	CB	PRO	X	48	23.749	61.762	36.221	0.00	0.00
ATOM	741	HB2	PRO	X	48	23.226	62.604	35.767	0.00	0.00

ATOM	742	HB3	PRO	X	48	23.291	60.878	35.777	0.00	0.00
ATOM	743	CA	PRO	X	48	25.204	61.822	35.803	0.00	0.00
ATOM	744	HA	PRO	X	48	25.570	60.799	35.709	0.00	0.00
ATOM	745	C	PRO	X	48	25.449	62.579	34.487	0.00	0.00
ATOM	746	O	PRO	X	48	25.502	63.840	34.433	0.00	0.00
ATOM	747	N	LYS	X	49	25.317	61.815	33.425	0.00	0.00
ATOM	748	H	LYS	X	49	25.107	60.835	33.546	0.00	0.00
ATOM	749	CA	LYS	X	49	25.439	62.271	32.016	0.00	0.00
ATOM	750	HA	LYS	X	49	26.314	62.902	31.862	0.00	0.00
ATOM	751	CB	LYS	X	49	25.567	61.026	31.221	0.00	0.00
ATOM	752	HB2	LYS	X	49	26.271	60.340	31.692	0.00	0.00
ATOM	753	HB3	LYS	X	49	24.546	60.647	31.187	0.00	0.00
ATOM	754	CG	LYS	X	49	26.189	61.421	29.840	0.00	0.00
ATOM	755	HG2	LYS	X	49	26.064	60.530	29.224	0.00	0.00
ATOM	756	HG3	LYS	X	49	25.563	62.218	29.440	0.00	0.00
ATOM	757	CD	LYS	X	49	27.712	61.810	29.795	0.00	0.00
ATOM	758	HD2	LYS	X	49	28.009	62.647	30.427	0.00	0.00
ATOM	759	HD3	LYS	X	49	28.205	60.868	30.036	0.00	0.00
ATOM	760	CE	LYS	X	49	28.035	62.199	28.339	0.00	0.00
ATOM	761	HE2	LYS	X	49	27.960	61.321	27.698	0.00	0.00
ATOM	762	HE3	LYS	X	49	27.264	62.885	27.987	0.00	0.00
ATOM	763	NZ	LYS	X	49	29.370	62.802	28.296	0.00	0.00
ATOM	764	HZ1	LYS	X	49	30.051	62.156	28.669	0.00	0.00
ATOM	765	HZ2	LYS	X	49	29.663	63.083	27.371	0.00	0.00
ATOM	766	HZ3	LYS	X	49	29.329	63.604	28.909	0.00	0.00
ATOM	767	C	LYS	X	49	24.184	63.068	31.583	0.00	0.00
ATOM	768	O	LYS	X	49	23.096	62.547	31.646	0.00	0.00
ATOM	769	N	GLN	X	50	24.408	64.324	31.120	0.00	0.00
ATOM	770	H	GLN	X	50	25.370	64.614	31.023	0.00	0.00
ATOM	771	CA	GLN	X	50	23.357	65.025	30.423	0.00	0.00
ATOM	772	HA	GLN	X	50	22.506	64.942	31.099	0.00	0.00
ATOM	773	CB	GLN	X	50	23.851	66.492	30.242	0.00	0.00
ATOM	774	HB2	GLN	X	50	24.524	66.563	29.387	0.00	0.00
ATOM	775	HB3	GLN	X	50	22.901	66.931	29.938	0.00	0.00
ATOM	776	CG	GLN	X	50	24.578	67.179	31.494	0.00	0.00
ATOM	777	HG2	GLN	X	50	24.241	66.672	32.398	0.00	0.00
ATOM	778	HG3	GLN	X	50	25.653	67.096	31.339	0.00	0.00
ATOM	779	CD	GLN	X	50	24.168	68.657	31.674	0.00	0.00
ATOM	780	OE1	GLN	X	50	24.367	69.393	30.756	0.00	0.00
ATOM	781	NE2	GLN	X	50	23.944	69.126	32.885	0.00	0.00
ATOM	782	HE21	GLN	X	50	24.164	70.109	32.951	0.00	0.00
ATOM	783	HE22	GLN	X	50	24.233	68.420	33.547	0.00	0.00
ATOM	784	C	GLN	X	50	22.988	64.361	29.071	0.00	0.00
ATOM	785	O	GLN	X	50	23.789	63.566	28.569	0.00	0.00
ATOM	786	N	PRO	X	51	21.744	64.669	28.529	0.00	0.00
ATOM	787	CD	PRO	X	51	20.820	65.655	29.053	0.00	0.00
ATOM	788	HD2	PRO	X	51	21.168	66.653	28.786	0.00	0.00
ATOM	789	HD3	PRO	X	51	20.560	65.444	30.091	0.00	0.00
ATOM	790	CG	PRO	X	51	19.447	65.398	28.268	0.00	0.00
ATOM	791	HG2	PRO	X	51	19.385	66.173	27.505	0.00	0.00
ATOM	792	HG3	PRO	X	51	18.550	65.360	28.886	0.00	0.00
ATOM	793	CB	PRO	X	51	19.624	63.999	27.742	0.00	0.00
ATOM	794	HB2	PRO	X	51	19.035	63.893	26.831	0.00	0.00
ATOM	795	HB3	PRO	X	51	19.306	63.334	28.545	0.00	0.00
ATOM	796	CA	PRO	X	51	21.129	63.906	27.465	0.00	0.00
ATOM	797	HA	PRO	X	51	21.423	62.858	27.524	0.00	0.00
ATOM	798	C	PRO	X	51	21.398	64.335	26.029	0.00	0.00
ATOM	799	O	PRO	X	51	22.045	65.410	25.803	0.00	0.00
ATOM	800	N	TRP	X	52	20.884	63.558	25.053	0.00	0.00
ATOM	801	H	TRP	X	52	20.307	62.743	25.204	0.00	0.00
ATOM	802	CA	TRP	X	52	21.132	63.834	23.598	0.00	0.00
ATOM	803	HA	TRP	X	52	21.593	64.792	23.355	0.00	0.00
ATOM	804	CB	TRP	X	52	22.096	62.717	23.157	0.00	0.00
ATOM	805	HB2	TRP	X	52	22.344	62.910	22.113	0.00	0.00
ATOM	806	HB3	TRP	X	52	23.016	62.824	23.732	0.00	0.00
ATOM	807	CG	TRP	X	52	21.662	61.266	23.354	0.00	0.00
ATOM	808	CD1	TRP	X	52	21.214	60.418	22.346	0.00	0.00

ATOM	809	HD1	TRP	X	52	21.161	60.681	21.299	0.00	0.00
ATOM	810	NE1	TRP	X	52	20.924	59.148	22.865	0.00	0.00
ATOM	811	HE1	TRP	X	52	20.551	58.390	22.312	0.00	0.00
ATOM	812	CE2	TRP	X	52	21.120	59.079	24.215	0.00	0.00
ATOM	813	CZ2	TRP	X	52	20.918	58.079	25.182	0.00	0.00
ATOM	814	HZ2	TRP	X	52	20.365	57.196	24.895	0.00	0.00
ATOM	815	CH2	TRP	X	52	21.296	58.308	26.534	0.00	0.00
ATOM	816	HH2	TRP	X	52	21.161	57.540	27.281	0.00	0.00
ATOM	817	CZ3	TRP	X	52	21.807	59.596	26.865	0.00	0.00
ATOM	818	HZ3	TRP	X	52	22.114	59.879	27.861	0.00	0.00
ATOM	819	CE3	TRP	X	52	21.969	60.596	25.850	0.00	0.00
ATOM	820	HE3	TRP	X	52	22.502	61.505	26.085	0.00	0.00
ATOM	821	CD2	TRP	X	52	21.609	60.382	24.543	0.00	0.00
ATOM	822	C	TRP	X	52	19.907	63.643	22.693	0.00	0.00
ATOM	823	O	TRP	X	52	18.972	62.899	23.102	0.00	0.00
ATOM	824	N	SER	X	53	19.881	64.397	21.636	0.00	0.00
ATOM	825	H	SER	X	53	20.573	65.132	21.609	0.00	0.00
ATOM	826	CA	SER	X	53	18.807	64.218	20.688	0.00	0.00
ATOM	827	HA	SER	X	53	18.090	63.462	21.008	0.00	0.00
ATOM	828	CB	SER	X	53	18.208	65.609	20.239	0.00	0.00
ATOM	829	HB2	SER	X	53	17.704	65.431	19.290	0.00	0.00
ATOM	830	HB3	SER	X	53	17.529	66.060	20.963	0.00	0.00
ATOM	831	OG	SER	X	53	19.197	66.545	19.956	0.00	0.00
ATOM	832	HG	SER	X	53	18.737	67.266	19.520	0.00	0.00
ATOM	833	C	SER	X	53	19.379	63.490	19.434	0.00	0.00
ATOM	834	O	SER	X	53	20.596	63.361	19.247	0.00	0.00
ATOM	835	N	GLY	X	54	18.548	62.847	18.655	0.00	0.00
ATOM	836	H	GLY	X	54	17.589	63.158	18.597	0.00	0.00
ATOM	837	CA	GLY	X	54	18.880	61.774	17.736	0.00	0.00
ATOM	838	HA2	GLY	X	54	18.041	61.473	17.109	0.00	0.00
ATOM	839	HA3	GLY	X	54	19.748	62.116	17.173	0.00	0.00
ATOM	840	C	GLY	X	54	19.293	60.472	18.331	0.00	0.00
ATOM	841	O	GLY	X	54	18.929	60.110	19.420	0.00	0.00
ATOM	842	N	VAL	X	55	20.051	59.649	17.612	0.00	0.00
ATOM	843	H	VAL	X	55	20.196	59.870	16.637	0.00	0.00
ATOM	844	CA	VAL	X	55	20.654	58.352	18.073	0.00	0.00
ATOM	845	HA	VAL	X	55	20.279	58.153	19.077	0.00	0.00
ATOM	846	CB	VAL	X	55	20.351	57.107	17.140	0.00	0.00
ATOM	847	HB	VAL	X	55	20.912	57.309	16.227	0.00	0.00
ATOM	848	CG1	VAL	X	55	20.813	55.768	17.718	0.00	0.00
ATOM	849	HG11	VAL	X	55	20.356	55.523	18.676	0.00	0.00
ATOM	850	HG12	VAL	X	55	20.600	55.033	16.941	0.00	0.00
ATOM	851	HG13	VAL	X	55	21.900	55.776	17.801	0.00	0.00
ATOM	852	CG2	VAL	X	55	18.857	57.003	16.905	0.00	0.00
ATOM	853	HG21	VAL	X	55	18.636	57.889	16.310	0.00	0.00
ATOM	854	HG22	VAL	X	55	18.308	57.151	17.835	0.00	0.00
ATOM	855	HG23	VAL	X	55	18.606	56.010	16.532	0.00	0.00
ATOM	856	C	VAL	X	55	22.188	58.604	18.235	0.00	0.00
ATOM	857	O	VAL	X	55	22.822	59.050	17.330	0.00	0.00
ATOM	858	N	VAL	X	56	22.650	58.128	19.468	0.00	0.00
ATOM	859	H	VAL	X	56	22.052	57.676	20.145	0.00	0.00
ATOM	860	CA	VAL	X	56	24.208	58.140	19.694	0.00	0.00
ATOM	861	HA	VAL	X	56	24.676	58.776	18.942	0.00	0.00
ATOM	862	CB	VAL	X	56	24.595	58.750	21.083	0.00	0.00
ATOM	863	HB	VAL	X	56	23.872	58.346	21.791	0.00	0.00
ATOM	864	CG1	VAL	X	56	26.042	58.464	21.478	0.00	0.00
ATOM	865	HG11	VAL	X	56	26.240	57.397	21.575	0.00	0.00
ATOM	866	HG12	VAL	X	56	26.707	58.913	20.740	0.00	0.00
ATOM	867	HG13	VAL	X	56	26.128	58.900	22.473	0.00	0.00
ATOM	868	CG2	VAL	X	56	24.320	60.299	20.984	0.00	0.00
ATOM	869	HG21	VAL	X	56	23.279	60.394	20.676	0.00	0.00
ATOM	870	HG22	VAL	X	56	24.972	60.652	20.186	0.00	0.00
ATOM	871	HG23	VAL	X	56	24.516	60.874	21.889	0.00	0.00
ATOM	872	C	VAL	X	56	24.600	56.682	19.581	0.00	0.00
ATOM	873	O	VAL	X	56	24.064	55.705	20.116	0.00	0.00
ATOM	874	N	ASP	X	57	25.663	56.446	18.809	0.00	0.00
ATOM	875	H	ASP	X	57	26.182	57.240	18.462	0.00	0.00

ATOM	876	CA	ASP	X	57	26.236	55.151	18.410	0.00	0.00
ATOM	877	HA	ASP	X	57	25.425	54.513	18.060	0.00	0.00
ATOM	878	CB	ASP	X	57	27.200	55.282	17.274	0.00	0.00
ATOM	879	HB2	ASP	X	57	26.687	55.799	16.464	0.00	0.00
ATOM	880	HB3	ASP	X	57	27.914	55.954	17.751	0.00	0.00
ATOM	881	CG	ASP	X	57	27.780	53.976	16.705	0.00	0.00
ATOM	882	OD1	ASP	X	57	27.274	53.524	15.711	0.00	0.00
ATOM	883	OD2	ASP	X	57	28.679	53.402	17.352	0.00	0.00
ATOM	884	C	ASP	X	57	26.791	54.307	19.598	0.00	0.00
ATOM	885	O	ASP	X	57	27.383	54.932	20.524	0.00	0.00
ATOM	886	N	ALA	X	58	26.643	52.963	19.594	0.00	0.00
ATOM	887	H	ALA	X	58	26.078	52.618	18.831	0.00	0.00
ATOM	888	CA	ALA	X	58	27.108	52.113	20.736	0.00	0.00
ATOM	889	HA	ALA	X	58	27.907	52.506	21.365	0.00	0.00
ATOM	890	CB	ALA	X	58	25.940	51.720	21.636	0.00	0.00
ATOM	891	HB1	ALA	X	58	26.058	50.930	22.377	0.00	0.00
ATOM	892	HB2	ALA	X	58	24.987	51.624	21.115	0.00	0.00
ATOM	893	HB3	ALA	X	58	25.807	52.575	22.299	0.00	0.00
ATOM	894	C	ALA	X	58	27.831	50.860	20.189	0.00	0.00
ATOM	895	O	ALA	X	58	27.435	49.711	20.507	0.00	0.00
ATOM	896	N	THR	X	59	28.847	51.039	19.328	0.00	0.00
ATOM	897	H	THR	X	59	28.902	51.983	18.973	0.00	0.00
ATOM	898	CA	THR	X	59	29.429	49.902	18.550	0.00	0.00
ATOM	899	HA	THR	X	59	28.891	49.027	18.912	0.00	0.00
ATOM	900	CB	THR	X	59	29.165	50.130	17.021	0.00	0.00
ATOM	901	HB	THR	X	59	29.544	49.295	16.432	0.00	0.00
ATOM	902	CG2	THR	X	59	27.703	50.279	16.857	0.00	0.00
ATOM	903	HG21	THR	X	59	27.497	50.032	15.816	0.00	0.00
ATOM	904	HG22	THR	X	59	27.361	51.248	17.223	0.00	0.00
ATOM	905	HG23	THR	X	59	27.130	49.613	17.501	0.00	0.00
ATOM	906	OG1	THR	X	59	29.766	51.237	16.467	0.00	0.00
ATOM	907	HG1	THR	X	59	29.123	51.923	16.664	0.00	0.00
ATOM	908	C	THR	X	59	30.950	49.535	18.682	0.00	0.00
ATOM	909	O	THR	X	59	31.518	48.590	18.080	0.00	0.00
ATOM	910	N	THR	X	60	31.641	50.242	19.597	0.00	0.00
ATOM	911	H	THR	X	60	31.176	50.914	20.191	0.00	0.00
ATOM	912	CA	THR	X	60	33.100	50.163	19.792	0.00	0.00
ATOM	913	HA	THR	X	60	33.373	49.134	20.027	0.00	0.00
ATOM	914	CB	THR	X	60	33.841	50.719	18.538	0.00	0.00
ATOM	915	HB	THR	X	60	33.537	50.145	17.663	0.00	0.00
ATOM	916	CG2	THR	X	60	33.505	52.215	18.204	0.00	0.00
ATOM	917	HG21	THR	X	60	33.887	52.505	17.225	0.00	0.00
ATOM	918	HG22	THR	X	60	33.901	52.860	18.990	0.00	0.00
ATOM	919	HG23	THR	X	60	32.454	52.500	18.162	0.00	0.00
ATOM	920	OG1	THR	X	60	35.248	50.584	18.681	0.00	0.00
ATOM	921	HG1	THR	X	60	35.438	49.669	18.464	0.00	0.00
ATOM	922	C	THR	X	60	33.461	50.832	21.117	0.00	0.00
ATOM	923	O	THR	X	60	32.726	51.694	21.604	0.00	0.00
ATOM	924	N	PHE	X	61	34.671	50.564	21.679	0.00	0.00
ATOM	925	H	PHE	X	61	35.291	49.824	21.382	0.00	0.00
ATOM	926	CA	PHE	X	61	35.259	51.447	22.700	0.00	0.00
ATOM	927	HA	PHE	X	61	34.387	51.812	23.244	0.00	0.00
ATOM	928	CB	PHE	X	61	36.237	50.764	23.573	0.00	0.00
ATOM	929	HB2	PHE	X	61	37.013	50.222	23.033	0.00	0.00
ATOM	930	HB3	PHE	X	61	36.867	51.473	24.110	0.00	0.00
ATOM	931	CG	PHE	X	61	35.754	49.758	24.575	0.00	0.00
ATOM	932	CD1	PHE	X	61	35.783	50.037	25.961	0.00	0.00
ATOM	933	HD1	PHE	X	61	36.156	50.991	26.303	0.00	0.00
ATOM	934	CE1	PHE	X	61	35.280	49.110	26.867	0.00	0.00
ATOM	935	HE1	PHE	X	61	35.259	49.254	27.937	0.00	0.00
ATOM	936	CZ	PHE	X	61	34.775	47.886	26.413	0.00	0.00
ATOM	937	HZ	PHE	X	61	34.403	47.172	27.133	0.00	0.00
ATOM	938	CE2	PHE	X	61	34.923	47.517	25.074	0.00	0.00
ATOM	939	HE2	PHE	X	61	34.572	46.542	24.769	0.00	0.00
ATOM	940	CD2	PHE	X	61	35.310	48.494	24.092	0.00	0.00
ATOM	941	HD2	PHE	X	61	35.373	48.259	23.040	0.00	0.00
ATOM	942	C	PHE	X	61	35.974	52.711	22.144	0.00	0.00

ATOM	943	O	PHE	X	61	36.605	52.646	21.095	0.00	0.00
ATOM	944	N	GLN	X	62	36.155	53.762	22.960	0.00	0.00
ATOM	945	H	GLN	X	62	35.716	53.704	23.867	0.00	0.00
ATOM	946	CA	GLN	X	62	36.839	54.981	22.610	0.00	0.00
ATOM	947	HA	GLN	X	62	37.112	55.006	21.555	0.00	0.00
ATOM	948	CB	GLN	X	62	36.019	56.229	22.887	0.00	0.00
ATOM	949	HB2	GLN	X	62	35.829	56.306	23.958	0.00	0.00
ATOM	950	HB3	GLN	X	62	36.482	57.160	22.561	0.00	0.00
ATOM	951	CG	GLN	X	62	34.579	56.143	22.298	0.00	0.00
ATOM	952	HG2	GLN	X	62	34.067	55.451	22.966	0.00	0.00
ATOM	953	HG3	GLN	X	62	34.097	57.106	22.463	0.00	0.00
ATOM	954	CD	GLN	X	62	34.411	55.676	20.862	0.00	0.00
ATOM	955	OE1	GLN	X	62	35.373	55.650	20.092	0.00	0.00
ATOM	956	NE2	GLN	X	62	33.192	55.272	20.394	0.00	0.00
ATOM	957	HE21	GLN	X	62	33.229	54.663	19.589	0.00	0.00
ATOM	958	HE22	GLN	X	62	32.335	55.578	20.831	0.00	0.00
ATOM	959	C	GLN	X	62	38.120	54.972	23.452	0.00	0.00
ATOM	960	O	GLN	X	62	39.180	55.336	22.944	0.00	0.00
ATOM	961	N	SER	X	63	38.049	54.602	24.754	0.00	0.00
ATOM	962	H	SER	X	63	37.279	53.992	24.992	0.00	0.00
ATOM	963	CA	SER	X	63	39.124	54.657	25.750	0.00	0.00
ATOM	964	HA	SER	X	63	40.054	54.276	25.327	0.00	0.00
ATOM	965	CB	SER	X	63	39.382	56.113	26.114	0.00	0.00
ATOM	966	HB2	SER	X	63	40.340	56.193	26.628	0.00	0.00
ATOM	967	HB3	SER	X	63	39.524	56.716	25.217	0.00	0.00
ATOM	968	OG	SER	X	63	38.267	56.684	26.799	0.00	0.00
ATOM	969	HG	SER	X	63	38.315	57.638	26.899	0.00	0.00
ATOM	970	C	SER	X	63	38.886	53.813	27.032	0.00	0.00
ATOM	971	O	SER	X	63	37.822	53.232	27.262	0.00	0.00
ATOM	972	N	VAL	X	64	39.946	53.507	27.790	0.00	0.00
ATOM	973	H	VAL	X	64	40.830	53.885	27.479	0.00	0.00
ATOM	974	CA	VAL	X	64	39.944	52.886	29.125	0.00	0.00
ATOM	975	HA	VAL	X	64	38.985	53.097	29.599	0.00	0.00
ATOM	976	CB	VAL	X	64	40.212	51.380	29.126	0.00	0.00
ATOM	977	HB	VAL	X	64	40.342	51.123	30.178	0.00	0.00
ATOM	978	CG1	VAL	X	64	38.995	50.678	28.534	0.00	0.00
ATOM	979	HG11	VAL	X	64	38.982	50.782	27.449	0.00	0.00
ATOM	980	HG12	VAL	X	64	38.982	49.604	28.724	0.00	0.00
ATOM	981	HG13	VAL	X	64	38.094	50.986	29.064	0.00	0.00
ATOM	982	CG2	VAL	X	64	41.454	50.857	28.475	0.00	0.00
ATOM	983	HG21	VAL	X	64	41.486	51.338	27.498	0.00	0.00
ATOM	984	HG22	VAL	X	64	41.389	49.785	28.288	0.00	0.00
ATOM	985	HG23	VAL	X	64	42.333	51.025	29.097	0.00	0.00
ATOM	986	C	VAL	X	64	41.030	53.607	29.939	0.00	0.00
ATOM	987	O	VAL	X	64	41.945	54.266	29.411	0.00	0.00
ATOM	988	N	CYX	X	65	40.881	53.523	31.289	0.00	0.00
ATOM	989	H	CYX	X	65	40.091	52.968	31.585	0.00	0.00
ATOM	990	CA	CYX	X	65	41.593	54.347	32.346	0.00	0.00
ATOM	991	HA	CYX	X	65	41.426	55.359	31.978	0.00	0.00
ATOM	992	CB	CYX	X	65	41.055	54.028	33.758	0.00	0.00
ATOM	993	HB2	CYX	X	65	41.197	52.970	33.982	0.00	0.00
ATOM	994	HB3	CYX	X	65	41.647	54.650	34.430	0.00	0.00
ATOM	995	SG	CYX	X	65	39.281	54.429	34.028	0.00	0.00
ATOM	996	C	CYX	X	65	43.129	54.249	32.274	0.00	0.00
ATOM	997	O	CYX	X	65	43.750	53.223	32.126	0.00	0.00
ATOM	998	N	TYR	X	66	43.735	55.362	32.566	0.00	0.00
ATOM	999	H	TYR	X	66	43.156	56.188	32.617	0.00	0.00
ATOM	1000	CA	TYR	X	66	45.190	55.464	32.694	0.00	0.00
ATOM	1001	HA	TYR	X	66	45.695	55.017	31.837	0.00	0.00
ATOM	1002	CB	TYR	X	66	45.654	56.917	32.919	0.00	0.00
ATOM	1003	HB2	TYR	X	66	44.764	57.437	33.272	0.00	0.00
ATOM	1004	HB3	TYR	X	66	46.438	56.884	33.675	0.00	0.00
ATOM	1005	CG	TYR	X	66	46.289	57.499	31.613	0.00	0.00
ATOM	1006	CD1	TYR	X	66	45.531	58.150	30.593	0.00	0.00
ATOM	1007	HD1	TYR	X	66	44.453	58.176	30.542	0.00	0.00
ATOM	1008	CE1	TYR	X	66	46.244	58.793	29.568	0.00	0.00
ATOM	1009	HE1	TYR	X	66	45.644	59.384	28.892	0.00	0.00

ATOM	1010	CZ	TYR	X	66	47.617	58.749	29.423	0.00	0.00
ATOM	1011	OH	TYR	X	66	48.219	59.261	28.321	0.00	0.00
ATOM	1012	HH	TYR	X	66	47.618	59.736	27.742	0.00	0.00
ATOM	1013	CE2	TYR	X	66	48.377	57.946	30.323	0.00	0.00
ATOM	1014	HE2	TYR	X	66	49.442	57.769	30.315	0.00	0.00
ATOM	1015	CD2	TYR	X	66	47.701	57.452	31.462	0.00	0.00
ATOM	1016	HD2	TYR	X	66	48.209	56.864	32.212	0.00	0.00
ATOM	1017	C	TYR	X	66	45.771	54.579	33.882	0.00	0.00
ATOM	1018	O	TYR	X	66	45.256	54.681	34.967	0.00	0.00
ATOM	1019	N	GLN	X	67	46.791	53.842	33.522	0.00	0.00
ATOM	1020	H	GLN	X	67	47.142	54.024	32.592	0.00	0.00
ATOM	1021	CA	GLN	X	67	47.293	52.722	34.347	0.00	0.00
ATOM	1022	HA	GLN	X	67	47.394	52.969	35.403	0.00	0.00
ATOM	1023	CB	GLN	X	67	46.246	51.603	34.410	0.00	0.00
ATOM	1024	HB2	GLN	X	67	46.541	50.910	35.198	0.00	0.00
ATOM	1025	HB3	GLN	X	67	45.267	52.011	34.661	0.00	0.00
ATOM	1026	CG	GLN	X	67	46.183	50.682	33.127	0.00	0.00
ATOM	1027	HG2	GLN	X	67	46.249	51.280	32.218	0.00	0.00
ATOM	1028	HG3	GLN	X	67	47.014	49.987	33.242	0.00	0.00
ATOM	1029	CD	GLN	X	67	44.896	49.871	32.973	0.00	0.00
ATOM	1030	OE1	GLN	X	67	44.941	48.652	33.021	0.00	0.00
ATOM	1031	NE2	GLN	X	67	43.769	50.506	32.599	0.00	0.00
ATOM	1032	HE21	GLN	X	67	42.886	50.030	32.476	0.00	0.00
ATOM	1033	HE22	GLN	X	67	43.804	51.500	32.424	0.00	0.00
ATOM	1034	C	GLN	X	67	48.718	52.169	33.958	0.00	0.00
ATOM	1035	O	GLN	X	67	49.107	52.199	32.826	0.00	0.00
ATOM	1036	N	TYR	X	68	49.502	51.690	34.928	0.00	0.00
ATOM	1037	H	TYR	X	68	49.355	52.035	35.865	0.00	0.00
ATOM	1038	CA	TYR	X	68	50.728	50.929	34.774	0.00	0.00
ATOM	1039	HA	TYR	X	68	51.442	51.521	34.201	0.00	0.00
ATOM	1040	CB	TYR	X	68	51.304	50.639	36.132	0.00	0.00
ATOM	1041	HB2	TYR	X	68	51.259	51.563	36.709	0.00	0.00
ATOM	1042	HB3	TYR	X	68	50.656	50.014	36.746	0.00	0.00
ATOM	1043	CG	TYR	X	68	52.632	49.849	36.176	0.00	0.00
ATOM	1044	CD1	TYR	X	68	53.785	50.546	35.905	0.00	0.00
ATOM	1045	HD1	TYR	X	68	53.727	51.615	35.760	0.00	0.00
ATOM	1046	CE1	TYR	X	68	55.002	49.836	35.776	0.00	0.00
ATOM	1047	HE1	TYR	X	68	55.939	50.339	35.592	0.00	0.00
ATOM	1048	CZ	TYR	X	68	55.034	48.449	35.993	0.00	0.00
ATOM	1049	OH	TYR	X	68	56.201	47.810	35.792	0.00	0.00
ATOM	1050	HH	TYR	X	68	56.914	48.409	35.558	0.00	0.00
ATOM	1051	CE2	TYR	X	68	53.909	47.773	36.463	0.00	0.00
ATOM	1052	HE2	TYR	X	68	53.890	46.715	36.681	0.00	0.00
ATOM	1053	CD2	TYR	X	68	52.672	48.466	36.528	0.00	0.00
ATOM	1054	HD2	TYR	X	68	51.774	47.923	36.784	0.00	0.00
ATOM	1055	C	TYR	X	68	50.466	49.610	34.035	0.00	0.00
ATOM	1056	O	TYR	X	68	49.520	48.794	34.316	0.00	0.00
ATOM	1057	N	VAL	X	69	51.374	49.299	33.144	0.00	0.00
ATOM	1058	H	VAL	X	69	52.174	49.913	33.095	0.00	0.00
ATOM	1059	CA	VAL	X	69	51.350	48.053	32.288	0.00	0.00
ATOM	1060	HA	VAL	X	69	50.420	47.501	32.420	0.00	0.00
ATOM	1061	CB	VAL	X	69	51.419	48.565	30.788	0.00	0.00
ATOM	1062	HB	VAL	X	69	52.367	49.096	30.703	0.00	0.00
ATOM	1063	CG1	VAL	X	69	51.442	47.460	29.746	0.00	0.00
ATOM	1064	HG11	VAL	X	69	51.695	47.832	28.753	0.00	0.00
ATOM	1065	HG12	VAL	X	69	52.106	46.667	30.091	0.00	0.00
ATOM	1066	HG13	VAL	X	69	50.440	47.032	29.745	0.00	0.00
ATOM	1067	CG2	VAL	X	69	50.234	49.543	30.526	0.00	0.00
ATOM	1068	HG21	VAL	X	69	50.488	50.488	31.007	0.00	0.00
ATOM	1069	HG22	VAL	X	69	49.288	49.172	30.919	0.00	0.00
ATOM	1070	HG23	VAL	X	69	50.145	49.687	29.449	0.00	0.00
ATOM	1071	C	VAL	X	69	52.577	47.219	32.657	0.00	0.00
ATOM	1072	O	VAL	X	69	53.573	47.782	33.144	0.00	0.00
ATOM	1073	N	ASP	X	70	52.443	45.928	32.465	0.00	0.00
ATOM	1074	H	ASP	X	70	51.551	45.604	32.121	0.00	0.00
ATOM	1075	CA	ASP	X	70	53.469	44.924	32.816	0.00	0.00
ATOM	1076	HA	ASP	X	70	53.669	45.181	33.856	0.00	0.00

ATOM	1077	CB	ASP	X	70	52.949	43.510	32.722	0.00	0.00
ATOM	1078	HB2	ASP	X	70	52.139	43.461	33.449	0.00	0.00
ATOM	1079	HB3	ASP	X	70	52.591	43.327	31.709	0.00	0.00
ATOM	1080	CG	ASP	X	70	54.117	42.487	33.196	0.00	0.00
ATOM	1081	OD1	ASP	X	70	55.065	42.886	33.877	0.00	0.00
ATOM	1082	OD2	ASP	X	70	53.973	41.299	32.880	0.00	0.00
ATOM	1083	C	ASP	X	70	54.749	45.128	31.923	0.00	0.00
ATOM	1084	O	ASP	X	70	54.646	44.757	30.706	0.00	0.00
ATOM	1085	N	THR	X	71	55.769	45.702	32.537	0.00	0.00
ATOM	1086	H	THR	X	71	55.698	45.763	33.543	0.00	0.00
ATOM	1087	CA	THR	X	71	57.109	45.781	31.975	0.00	0.00
ATOM	1088	HA	THR	X	71	57.166	45.580	30.905	0.00	0.00
ATOM	1089	CB	THR	X	71	57.717	47.218	32.087	0.00	0.00
ATOM	1090	HB	THR	X	71	58.639	47.354	31.522	0.00	0.00
ATOM	1091	CG2	THR	X	71	56.769	48.343	31.475	0.00	0.00
ATOM	1092	HG21	THR	X	71	56.812	48.285	30.388	0.00	0.00
ATOM	1093	HG22	THR	X	71	57.126	49.352	31.683	0.00	0.00
ATOM	1094	HG23	THR	X	71	55.737	48.335	31.826	0.00	0.00
ATOM	1095	OG1	THR	X	71	57.917	47.518	33.400	0.00	0.00
ATOM	1096	HG1	THR	X	71	58.321	48.384	33.491	0.00	0.00
ATOM	1097	C	THR	X	71	58.147	44.776	32.540	0.00	0.00
ATOM	1098	O	THR	X	71	59.345	44.875	32.174	0.00	0.00
ATOM	1099	N	LEU	X	72	57.757	43.829	33.387	0.00	0.00
ATOM	1100	H	LEU	X	72	56.767	43.747	33.567	0.00	0.00
ATOM	1101	CA	LEU	X	72	58.529	42.702	33.833	0.00	0.00
ATOM	1102	HA	LEU	X	72	59.563	43.026	33.956	0.00	0.00
ATOM	1103	CB	LEU	X	72	58.065	42.278	35.281	0.00	0.00
ATOM	1104	HB2	LEU	X	72	57.865	43.146	35.909	0.00	0.00
ATOM	1105	HB3	LEU	X	72	57.189	41.657	35.094	0.00	0.00
ATOM	1106	CG	LEU	X	72	59.187	41.480	35.998	0.00	0.00
ATOM	1107	HG	LEU	X	72	59.608	40.827	35.233	0.00	0.00
ATOM	1108	CD1	LEU	X	72	60.323	42.270	36.718	0.00	0.00
ATOM	1109	HD11	LEU	X	72	60.826	43.001	36.085	0.00	0.00
ATOM	1110	HD12	LEU	X	72	61.056	41.726	37.313	0.00	0.00
ATOM	1111	HD13	LEU	X	72	59.722	42.827	37.436	0.00	0.00
ATOM	1112	CD2	LEU	X	72	58.623	40.504	37.003	0.00	0.00
ATOM	1113	HD21	LEU	X	72	58.156	39.637	36.535	0.00	0.00
ATOM	1114	HD22	LEU	X	72	59.393	40.056	37.632	0.00	0.00
ATOM	1115	HD23	LEU	X	72	57.858	41.005	37.596	0.00	0.00
ATOM	1116	C	LEU	X	72	58.597	41.522	32.872	0.00	0.00
ATOM	1117	O	LEU	X	72	59.640	41.112	32.382	0.00	0.00
ATOM	1118	N	TYR	X	73	57.376	41.128	32.450	0.00	0.00
ATOM	1119	H	TYR	X	73	56.583	41.575	32.888	0.00	0.00
ATOM	1120	CA	TYR	X	73	57.168	40.076	31.409	0.00	0.00
ATOM	1121	HA	TYR	X	73	58.122	39.637	31.118	0.00	0.00
ATOM	1122	CB	TYR	X	73	56.437	38.914	32.054	0.00	0.00
ATOM	1123	HB2	TYR	X	73	55.454	39.272	32.360	0.00	0.00
ATOM	1124	HB3	TYR	X	73	56.438	38.121	31.305	0.00	0.00
ATOM	1125	CG	TYR	X	73	57.185	38.320	33.185	0.00	0.00
ATOM	1126	CD1	TYR	X	73	58.397	37.587	33.051	0.00	0.00
ATOM	1127	HD1	TYR	X	73	59.041	37.670	32.188	0.00	0.00
ATOM	1128	CE1	TYR	X	73	58.999	36.923	34.099	0.00	0.00
ATOM	1129	HE1	TYR	X	73	59.992	36.527	33.954	0.00	0.00
ATOM	1130	CZ	TYR	X	73	58.459	36.973	35.343	0.00	0.00
ATOM	1131	OH	TYR	X	73	59.171	36.506	36.361	0.00	0.00
ATOM	1132	HH	TYR	X	73	58.718	36.598	37.202	0.00	0.00
ATOM	1133	CE2	TYR	X	73	57.185	37.617	35.576	0.00	0.00
ATOM	1134	HE2	TYR	X	73	56.684	37.412	36.510	0.00	0.00
ATOM	1135	CD2	TYR	X	73	56.550	38.175	34.448	0.00	0.00
ATOM	1136	HD2	TYR	X	73	55.540	38.549	34.520	0.00	0.00
ATOM	1137	C	TYR	X	73	56.394	40.561	30.170	0.00	0.00
ATOM	1138	O	TYR	X	73	55.360	40.022	29.704	0.00	0.00
ATOM	1139	N	PRO	X	74	56.794	41.689	29.501	0.00	0.00
ATOM	1140	CD	PRO	X	74	58.023	42.355	29.716	0.00	0.00
ATOM	1141	HD2	PRO	X	74	58.843	41.691	29.992	0.00	0.00
ATOM	1142	HD3	PRO	X	74	57.997	42.969	30.616	0.00	0.00
ATOM	1143	CG	PRO	X	74	58.346	43.102	28.434	0.00	0.00

ATOM	1144	HG2	PRO	X	74	58.787	42.457	27.674	0.00	0.00
ATOM	1145	HG3	PRO	X	74	59.009	43.930	28.684	0.00	0.00
ATOM	1146	CB	PRO	X	74	56.928	43.594	28.173	0.00	0.00
ATOM	1147	HB2	PRO	X	74	56.792	43.992	27.168	0.00	0.00
ATOM	1148	HB3	PRO	X	74	56.560	44.348	28.869	0.00	0.00
ATOM	1149	CA	PRO	X	74	56.091	42.420	28.460	0.00	0.00
ATOM	1150	HA	PRO	X	74	55.121	42.805	28.774	0.00	0.00
ATOM	1151	C	PRO	X	74	55.932	41.543	27.202	0.00	0.00
ATOM	1152	O	PRO	X	74	56.921	40.991	26.692	0.00	0.00
ATOM	1153	N	GLY	X	75	54.674	41.550	26.637	0.00	0.00
ATOM	1154	H	GLY	X	75	54.002	42.029	27.219	0.00	0.00
ATOM	1155	CA	GLY	X	75	54.247	40.986	25.359	0.00	0.00
ATOM	1156	HA2	GLY	X	75	53.204	41.240	25.169	0.00	0.00
ATOM	1157	HA3	GLY	X	75	54.891	41.290	24.533	0.00	0.00
ATOM	1158	C	GLY	X	75	54.175	39.465	25.213	0.00	0.00
ATOM	1159	O	GLY	X	75	53.615	38.938	24.254	0.00	0.00
ATOM	1160	N	PHE	X	76	54.590	38.790	26.251	0.00	0.00
ATOM	1161	H	PHE	X	76	55.059	39.269	27.007	0.00	0.00
ATOM	1162	CA	PHE	X	76	54.311	37.410	26.510	0.00	0.00
ATOM	1163	HA	PHE	X	76	54.620	36.913	25.590	0.00	0.00
ATOM	1164	CB	PHE	X	76	55.135	36.866	27.693	0.00	0.00
ATOM	1165	HB2	PHE	X	76	56.031	36.331	27.378	0.00	0.00
ATOM	1166	HB3	PHE	X	76	55.624	37.708	28.183	0.00	0.00
ATOM	1167	CG	PHE	X	76	54.462	36.074	28.824	0.00	0.00
ATOM	1168	CD1	PHE	X	76	54.121	34.698	28.790	0.00	0.00
ATOM	1169	HD1	PHE	X	76	54.309	34.026	27.966	0.00	0.00
ATOM	1170	CE1	PHE	X	76	53.412	34.159	29.834	0.00	0.00
ATOM	1171	HE1	PHE	X	76	53.155	33.110	29.821	0.00	0.00
ATOM	1172	CZ	PHE	X	76	53.145	34.848	30.996	0.00	0.00
ATOM	1173	HZ	PHE	X	76	52.590	34.407	31.810	0.00	0.00
ATOM	1174	CE2	PHE	X	76	53.469	36.155	31.038	0.00	0.00
ATOM	1175	HE2	PHE	X	76	53.210	36.739	31.908	0.00	0.00
ATOM	1176	CD2	PHE	X	76	54.096	36.798	29.956	0.00	0.00
ATOM	1177	HD2	PHE	X	76	54.365	37.838	30.069	0.00	0.00
ATOM	1178	C	PHE	X	76	52.828	37.090	26.776	0.00	0.00
ATOM	1179	O	PHE	X	76	52.187	37.975	27.286	0.00	0.00
ATOM	1180	N	GLU	X	77	52.331	35.984	26.363	0.00	0.00
ATOM	1181	H	GLU	X	77	52.943	35.354	25.864	0.00	0.00
ATOM	1182	CA	GLU	X	77	50.914	35.623	26.170	0.00	0.00
ATOM	1183	HA	GLU	X	77	50.437	36.335	25.498	0.00	0.00
ATOM	1184	CB	GLU	X	77	50.931	34.265	25.532	0.00	0.00
ATOM	1185	HB2	GLU	X	77	51.592	33.560	26.036	0.00	0.00
ATOM	1186	HB3	GLU	X	77	49.932	33.842	25.632	0.00	0.00
ATOM	1187	CG	GLU	X	77	51.191	34.255	24.027	0.00	0.00
ATOM	1188	HG2	GLU	X	77	50.487	34.988	23.634	0.00	0.00
ATOM	1189	HG3	GLU	X	77	52.179	34.640	23.774	0.00	0.00
ATOM	1190	CD	GLU	X	77	50.985	32.827	23.497	0.00	0.00
ATOM	1191	OE1	GLU	X	77	49.848	32.280	23.638	0.00	0.00
ATOM	1192	OE2	GLU	X	77	51.936	32.373	22.894	0.00	0.00
ATOM	1193	C	GLU	X	77	50.036	35.828	27.463	0.00	0.00
ATOM	1194	O	GLU	X	77	48.854	36.219	27.394	0.00	0.00
ATOM	1195	N	GLY	X	78	50.618	35.607	28.680	0.00	0.00
ATOM	1196	H	GLY	X	78	51.558	35.236	28.685	0.00	0.00
ATOM	1197	CA	GLY	X	78	49.933	35.699	29.986	0.00	0.00
ATOM	1198	HA2	GLY	X	78	48.869	35.475	29.914	0.00	0.00
ATOM	1199	HA3	GLY	X	78	50.485	35.139	30.741	0.00	0.00
ATOM	1200	C	GLY	X	78	50.079	37.082	30.642	0.00	0.00
ATOM	1201	O	GLY	X	78	49.576	37.330	31.715	0.00	0.00
ATOM	1202	N	THR	X	79	50.742	37.995	29.903	0.00	0.00
ATOM	1203	H	THR	X	79	51.050	37.750	28.973	0.00	0.00
ATOM	1204	CA	THR	X	79	50.786	39.394	30.177	0.00	0.00
ATOM	1205	HA	THR	X	79	50.384	39.614	31.166	0.00	0.00
ATOM	1206	CB	THR	X	79	52.275	39.757	30.248	0.00	0.00
ATOM	1207	HB	THR	X	79	52.880	39.112	29.610	0.00	0.00
ATOM	1208	CG2	THR	X	79	52.433	41.172	29.819	0.00	0.00
ATOM	1209	HG21	THR	X	79	52.338	41.219	28.734	0.00	0.00
ATOM	1210	HG22	THR	X	79	53.465	41.447	30.035	0.00	0.00

ATOM	1211	HG23	THR	X	79	51.809	41.790	30.465	0.00	0.00
ATOM	1212	OG1	THR	X	79	52.669	39.513	31.559	0.00	0.00
ATOM	1213	HG1	THR	X	79	53.103	40.268	31.963	0.00	0.00
ATOM	1214	C	THR	X	79	49.898	40.189	29.291	0.00	0.00
ATOM	1215	O	THR	X	79	49.140	41.012	29.724	0.00	0.00
ATOM	1216	N	GLU	X	80	50.040	39.825	28.000	0.00	0.00
ATOM	1217	H	GLU	X	80	50.727	39.134	27.732	0.00	0.00
ATOM	1218	CA	GLU	X	80	49.299	40.297	26.821	0.00	0.00
ATOM	1219	HA	GLU	X	80	49.371	41.382	26.884	0.00	0.00
ATOM	1220	CB	GLU	X	80	49.975	39.776	25.570	0.00	0.00
ATOM	1221	HB2	GLU	X	80	51.031	40.048	25.566	0.00	0.00
ATOM	1222	HB3	GLU	X	80	49.801	38.702	25.509	0.00	0.00
ATOM	1223	CG	GLU	X	80	49.343	40.387	24.306	0.00	0.00
ATOM	1224	HG2	GLU	X	80	48.311	40.076	24.144	0.00	0.00
ATOM	1225	HG3	GLU	X	80	49.405	41.471	24.397	0.00	0.00
ATOM	1226	CD	GLU	X	80	50.126	40.038	23.047	0.00	0.00
ATOM	1227	OE1	GLU	X	80	51.112	40.735	22.764	0.00	0.00
ATOM	1228	OE2	GLU	X	80	49.827	39.041	22.313	0.00	0.00
ATOM	1229	C	GLU	X	80	47.783	40.073	26.705	0.00	0.00
ATOM	1230	O	GLU	X	80	47.187	40.983	26.086	0.00	0.00
ATOM	1231	N	MET	X	81	47.151	39.185	27.484	0.00	0.00
ATOM	1232	H	MET	X	81	47.755	38.543	27.977	0.00	0.00
ATOM	1233	CA	MET	X	81	45.697	39.252	27.672	0.00	0.00
ATOM	1234	HA	MET	X	81	45.220	39.383	26.700	0.00	0.00
ATOM	1235	CB	MET	X	81	45.185	37.907	28.275	0.00	0.00
ATOM	1236	HB2	MET	X	81	44.106	38.025	28.366	0.00	0.00
ATOM	1237	HB3	MET	X	81	45.427	37.149	27.529	0.00	0.00
ATOM	1238	CG	MET	X	81	45.838	37.479	29.593	0.00	0.00
ATOM	1239	HG2	MET	X	81	46.889	37.251	29.414	0.00	0.00
ATOM	1240	HG3	MET	X	81	45.782	38.283	30.328	0.00	0.00
ATOM	1241	SD	MET	X	81	45.194	36.040	30.426	0.00	0.00
ATOM	1242	CE	MET	X	81	43.392	36.328	30.416	0.00	0.00
ATOM	1243	HE1	MET	X	81	42.991	35.588	31.108	0.00	0.00
ATOM	1244	HE2	MET	X	81	43.071	37.312	30.757	0.00	0.00
ATOM	1245	HE3	MET	X	81	43.072	36.201	29.381	0.00	0.00
ATOM	1246	C	MET	X	81	45.129	40.420	28.502	0.00	0.00
ATOM	1247	O	MET	X	81	44.021	40.904	28.310	0.00	0.00
ATOM	1248	N	TRP	X	82	45.877	40.919	29.475	0.00	0.00
ATOM	1249	H	TRP	X	82	46.812	40.575	29.641	0.00	0.00
ATOM	1250	CA	TRP	X	82	45.591	42.028	30.342	0.00	0.00
ATOM	1251	HA	TRP	X	82	44.515	42.046	30.513	0.00	0.00
ATOM	1252	CB	TRP	X	82	46.286	41.685	31.640	0.00	0.00
ATOM	1253	HB2	TRP	X	82	47.359	41.855	31.552	0.00	0.00
ATOM	1254	HB3	TRP	X	82	45.872	42.348	32.400	0.00	0.00
ATOM	1255	CG	TRP	X	82	46.046	40.344	32.198	0.00	0.00
ATOM	1256	CD1	TRP	X	82	47.009	39.417	32.461	0.00	0.00
ATOM	1257	HD1	TRP	X	82	48.073	39.455	32.279	0.00	0.00
ATOM	1258	NE1	TRP	X	82	46.430	38.364	33.114	0.00	0.00
ATOM	1259	HE1	TRP	X	82	46.982	37.657	33.579	0.00	0.00
ATOM	1260	CE2	TRP	X	82	45.001	38.460	33.119	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	43.978	37.546	33.502	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	44.151	36.590	33.974	0.00	0.00
ATOM	1263	CH2	TRP	X	82	42.631	38.028	33.334	0.00	0.00
ATOM	1264	HH2	TRP	X	82	41.835	37.429	33.749	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	42.385	39.266	32.773	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	41.390	39.684	32.757	0.00	0.00
ATOM	1267	CE3	TRP	X	82	43.458	40.100	32.442	0.00	0.00
ATOM	1268	HE3	TRP	X	82	43.285	41.142	32.217	0.00	0.00
ATOM	1269	CD2	TRP	X	82	44.793	39.728	32.478	0.00	0.00
ATOM	1270	C	TRP	X	82	46.090	43.412	29.828	0.00	0.00
ATOM	1271	O	TRP	X	82	45.627	44.443	30.368	0.00	0.00
ATOM	1272	N	ASN	X	83	46.915	43.451	28.725	0.00	0.00
ATOM	1273	H	ASN	X	83	47.248	42.564	28.375	0.00	0.00
ATOM	1274	CA	ASN	X	83	47.510	44.720	28.101	0.00	0.00
ATOM	1275	HA	ASN	X	83	47.989	45.280	28.904	0.00	0.00
ATOM	1276	CB	ASN	X	83	48.407	44.244	26.974	0.00	0.00
ATOM	1277	HB2	ASN	X	83	48.959	43.383	27.351	0.00	0.00

ATOM	1278	HB3	ASN	X	83	47.819	43.973	26.098	0.00	0.00
ATOM	1279	CG	ASN	X	83	49.421	45.348	26.642	0.00	0.00
ATOM	1280	OD1	ASN	X	83	49.322	46.079	25.666	0.00	0.00
ATOM	1281	ND2	ASN	X	83	50.483	45.539	27.446	0.00	0.00
ATOM	1282	HD21	ASN	X	83	51.096	46.334	27.333	0.00	0.00
ATOM	1283	HD22	ASN	X	83	50.560	45.017	28.308	0.00	0.00
ATOM	1284	C	ASN	X	83	46.470	45.649	27.489	0.00	0.00
ATOM	1285	O	ASN	X	83	45.416	45.152	27.112	0.00	0.00
ATOM	1286	N	PRO	X	84	46.672	47.011	27.509	0.00	0.00
ATOM	1287	CD	PRO	X	84	47.774	47.815	28.096	0.00	0.00
ATOM	1288	HD2	PRO	X	84	48.724	47.524	27.647	0.00	0.00
ATOM	1289	HD3	PRO	X	84	47.781	47.836	29.186	0.00	0.00
ATOM	1290	CG	PRO	X	84	47.514	49.225	27.587	0.00	0.00
ATOM	1291	HG2	PRO	X	84	47.895	49.365	26.575	0.00	0.00
ATOM	1292	HG3	PRO	X	84	47.906	49.937	28.314	0.00	0.00
ATOM	1293	CB	PRO	X	84	45.982	49.320	27.468	0.00	0.00
ATOM	1294	HB2	PRO	X	84	45.649	50.183	26.892	0.00	0.00
ATOM	1295	HB3	PRO	X	84	45.468	49.460	28.419	0.00	0.00
ATOM	1296	CA	PRO	X	84	45.632	47.885	26.923	0.00	0.00
ATOM	1297	HA	PRO	X	84	44.688	47.770	27.455	0.00	0.00
ATOM	1298	C	PRO	X	84	45.481	47.874	25.420	0.00	0.00
ATOM	1299	O	PRO	X	84	46.237	48.525	24.690	0.00	0.00
ATOM	1300	N	ASN	X	85	44.443	47.141	24.988	0.00	0.00
ATOM	1301	H	ASN	X	85	43.806	46.701	25.637	0.00	0.00
ATOM	1302	CA	ASN	X	85	43.991	46.946	23.596	0.00	0.00
ATOM	1303	HA	ASN	X	85	44.915	46.755	23.050	0.00	0.00
ATOM	1304	CB	ASN	X	85	43.009	45.753	23.577	0.00	0.00
ATOM	1305	HB2	ASN	X	85	42.736	45.687	22.524	0.00	0.00
ATOM	1306	HB3	ASN	X	85	43.509	44.870	23.976	0.00	0.00
ATOM	1307	CG	ASN	X	85	41.743	45.887	24.377	0.00	0.00
ATOM	1308	OD1	ASN	X	85	41.563	46.689	25.274	0.00	0.00
ATOM	1309	ND2	ASN	X	85	40.908	44.831	24.300	0.00	0.00
ATOM	1310	HD21	ASN	X	85	40.113	44.828	24.924	0.00	0.00
ATOM	1311	HD22	ASN	X	85	41.156	44.057	23.701	0.00	0.00
ATOM	1312	C	ASN	X	85	43.349	48.186	22.986	0.00	0.00
ATOM	1313	O	ASN	X	85	43.108	48.239	21.758	0.00	0.00
ATOM	1314	N	ARG	X	86	43.165	49.236	23.816	0.00	0.00
ATOM	1315	H	ARG	X	86	43.358	49.219	24.807	0.00	0.00
ATOM	1316	CA	ARG	X	86	42.519	50.495	23.423	0.00	0.00
ATOM	1317	HA	ARG	X	86	42.345	50.534	22.347	0.00	0.00
ATOM	1318	CB	ARG	X	86	41.061	50.400	23.919	0.00	0.00
ATOM	1319	HB2	ARG	X	86	41.080	50.240	24.997	0.00	0.00
ATOM	1320	HB3	ARG	X	86	40.533	51.325	23.686	0.00	0.00
ATOM	1321	CG	ARG	X	86	40.164	49.254	23.408	0.00	0.00
ATOM	1322	HG2	ARG	X	86	40.573	48.255	23.561	0.00	0.00
ATOM	1323	HG3	ARG	X	86	39.229	49.245	23.969	0.00	0.00
ATOM	1324	CD	ARG	X	86	39.831	49.352	21.865	0.00	0.00
ATOM	1325	HD2	ARG	X	86	39.181	50.225	21.798	0.00	0.00
ATOM	1326	HD3	ARG	X	86	40.696	49.665	21.280	0.00	0.00
ATOM	1327	NE	ARG	X	86	39.179	48.064	21.396	0.00	0.00
ATOM	1328	HE	ARG	X	86	38.314	47.796	21.843	0.00	0.00
ATOM	1329	CZ	ARG	X	86	39.658	47.305	20.428	0.00	0.00
ATOM	1330	NH1	ARG	X	86	40.878	47.537	19.951	0.00	0.00
ATOM	1331	HH11	ARG	X	86	41.504	48.209	20.372	0.00	0.00
ATOM	1332	HH12	ARG	X	86	41.134	47.077	19.089	0.00	0.00
ATOM	1333	NH2	ARG	X	86	38.908	46.312	19.919	0.00	0.00
ATOM	1334	HH21	ARG	X	86	38.027	46.114	20.371	0.00	0.00
ATOM	1335	HH22	ARG	X	86	39.348	45.604	19.349	0.00	0.00
ATOM	1336	C	ARG	X	86	43.226	51.785	23.961	0.00	0.00
ATOM	1337	O	ARG	X	86	44.275	51.676	24.586	0.00	0.00
ATOM	1338	N	GLU	X	87	42.755	52.988	23.669	0.00	0.00
ATOM	1339	H	GLU	X	87	42.057	52.962	22.940	0.00	0.00
ATOM	1340	CA	GLU	X	87	43.411	54.276	23.985	0.00	0.00
ATOM	1341	HA	GLU	X	87	44.473	54.208	23.753	0.00	0.00
ATOM	1342	CB	GLU	X	87	42.767	55.416	23.144	0.00	0.00
ATOM	1343	HB2	GLU	X	87	42.860	55.192	22.081	0.00	0.00
ATOM	1344	HB3	GLU	X	87	41.712	55.455	23.416	0.00	0.00

ATOM	1345	CG	GLU	X	87	43.382	56.753	23.475	0.00	0.00
ATOM	1346	HG2	GLU	X	87	42.936	57.237	24.344	0.00	0.00
ATOM	1347	HG3	GLU	X	87	44.419	56.589	23.769	0.00	0.00
ATOM	1348	CD	GLU	X	87	43.392	57.716	22.311	0.00	0.00
ATOM	1349	OE1	GLU	X	87	42.306	58.101	21.873	0.00	0.00
ATOM	1350	OE2	GLU	X	87	44.473	58.008	21.732	0.00	0.00
ATOM	1351	C	GLU	X	87	43.348	54.524	25.542	0.00	0.00
ATOM	1352	O	GLU	X	87	42.294	54.289	26.105	0.00	0.00
ATOM	1353	N	LEU	X	88	44.493	54.800	26.164	0.00	0.00
ATOM	1354	H	LEU	X	88	45.322	54.898	25.596	0.00	0.00
ATOM	1355	CA	LEU	X	88	44.563	55.186	27.550	0.00	0.00
ATOM	1356	HA	LEU	X	88	43.859	54.629	28.168	0.00	0.00
ATOM	1357	CB	LEU	X	88	46.010	54.958	28.123	0.00	0.00
ATOM	1358	HB2	LEU	X	88	46.615	55.538	27.426	0.00	0.00
ATOM	1359	HB3	LEU	X	88	46.135	55.358	29.129	0.00	0.00
ATOM	1360	CG	LEU	X	88	46.517	53.521	28.146	0.00	0.00
ATOM	1361	HG	LEU	X	88	46.433	53.007	27.189	0.00	0.00
ATOM	1362	CD1	LEU	X	88	47.976	53.528	28.528	0.00	0.00
ATOM	1363	HD11	LEU	X	88	48.006	53.631	29.612	0.00	0.00
ATOM	1364	HD12	LEU	X	88	48.550	54.260	27.959	0.00	0.00
ATOM	1365	HD13	LEU	X	88	48.452	52.568	28.328	0.00	0.00
ATOM	1366	CD2	LEU	X	88	45.652	52.779	29.182	0.00	0.00
ATOM	1367	HD21	LEU	X	88	45.568	51.725	28.916	0.00	0.00
ATOM	1368	HD22	LEU	X	88	45.979	52.869	30.218	0.00	0.00
ATOM	1369	HD23	LEU	X	88	44.575	52.906	29.073	0.00	0.00
ATOM	1370	C	LEU	X	88	44.108	56.603	27.620	0.00	0.00
ATOM	1371	O	LEU	X	88	44.690	57.439	26.954	0.00	0.00
ATOM	1372	N	SER	X	89	43.060	56.815	28.390	0.00	0.00
ATOM	1373	H	SER	X	89	42.701	56.098	29.004	0.00	0.00
ATOM	1374	CA	SER	X	89	42.544	58.175	28.561	0.00	0.00
ATOM	1375	HA	SER	X	89	43.285	58.926	28.289	0.00	0.00
ATOM	1376	CB	SER	X	89	41.427	58.480	27.554	0.00	0.00
ATOM	1377	HB2	SER	X	89	41.830	58.149	26.597	0.00	0.00
ATOM	1378	HB3	SER	X	89	40.634	57.828	27.921	0.00	0.00
ATOM	1379	OG	SER	X	89	40.934	59.839	27.575	0.00	0.00
ATOM	1380	HG	SER	X	89	40.138	59.780	27.041	0.00	0.00
ATOM	1381	C	SER	X	89	42.023	58.361	30.004	0.00	0.00
ATOM	1382	O	SER	X	89	41.743	57.382	30.710	0.00	0.00
ATOM	1383	N	GLU	X	90	41.701	59.612	30.383	0.00	0.00
ATOM	1384	H	GLU	X	90	41.919	60.279	29.656	0.00	0.00
ATOM	1385	CA	GLU	X	90	41.079	59.968	31.620	0.00	0.00
ATOM	1386	HA	GLU	X	90	41.243	59.195	32.371	0.00	0.00
ATOM	1387	CB	GLU	X	90	41.583	61.334	32.067	0.00	0.00
ATOM	1388	HB2	GLU	X	90	41.488	62.085	31.283	0.00	0.00
ATOM	1389	HB3	GLU	X	90	41.082	61.750	32.941	0.00	0.00
ATOM	1390	CG	GLU	X	90	43.085	61.262	32.360	0.00	0.00
ATOM	1391	HG2	GLU	X	90	43.091	60.489	33.128	0.00	0.00
ATOM	1392	HG3	GLU	X	90	43.727	60.938	31.541	0.00	0.00
ATOM	1393	CD	GLU	X	90	43.626	62.553	33.082	0.00	0.00
ATOM	1394	OE1	GLU	X	90	43.429	62.747	34.303	0.00	0.00
ATOM	1395	OE2	GLU	X	90	44.298	63.431	32.479	0.00	0.00
ATOM	1396	C	GLU	X	90	39.527	60.119	31.406	0.00	0.00
ATOM	1397	O	GLU	X	90	38.809	60.307	32.407	0.00	0.00
ATOM	1398	N	ASP	X	91	39.028	60.048	30.134	0.00	0.00
ATOM	1399	H	ASP	X	91	39.692	59.935	29.381	0.00	0.00
ATOM	1400	CA	ASP	X	91	37.571	60.144	29.809	0.00	0.00
ATOM	1401	HA	ASP	X	91	37.242	60.750	30.654	0.00	0.00
ATOM	1402	CB	ASP	X	91	37.413	60.936	28.461	0.00	0.00
ATOM	1403	HB2	ASP	X	91	36.484	61.503	28.526	0.00	0.00
ATOM	1404	HB3	ASP	X	91	38.206	61.683	28.480	0.00	0.00
ATOM	1405	CG	ASP	X	91	37.545	60.231	27.174	0.00	0.00
ATOM	1406	OD1	ASP	X	91	38.428	59.399	26.960	0.00	0.00
ATOM	1407	OD2	ASP	X	91	36.619	60.247	26.230	0.00	0.00
ATOM	1408	C	ASP	X	91	36.838	58.774	29.963	0.00	0.00
ATOM	1409	O	ASP	X	91	35.895	58.514	29.248	0.00	0.00
ATOM	1410	N	CYX	X	92	37.331	57.953	30.898	0.00	0.00
ATOM	1411	H	CYX	X	92	38.077	58.281	31.495	0.00	0.00

ATOM	1412	CA	CYX	X	92	37.210	56.500	30.837	0.00	0.00
ATOM	1413	HA	CYX	X	92	37.056	56.209	29.798	0.00	0.00
ATOM	1414	CB	CYX	X	92	38.512	55.930	31.407	0.00	0.00
ATOM	1415	HB2	CYX	X	92	38.563	54.866	31.176	0.00	0.00
ATOM	1416	HB3	CYX	X	92	39.303	56.337	30.777	0.00	0.00
ATOM	1417	SG	CYX	X	92	39.047	56.287	33.073	0.00	0.00
ATOM	1418	C	CYX	X	92	35.934	55.910	31.495	0.00	0.00
ATOM	1419	O	CYX	X	92	35.834	54.687	31.604	0.00	0.00
ATOM	1420	N	LEU	X	93	35.001	56.741	31.941	0.00	0.00
ATOM	1421	H	LEU	X	93	35.273	57.712	32.001	0.00	0.00
ATOM	1422	CA	LEU	X	93	33.745	56.313	32.514	0.00	0.00
ATOM	1423	HA	LEU	X	93	33.913	55.449	33.158	0.00	0.00
ATOM	1424	CB	LEU	X	93	33.096	57.449	33.339	0.00	0.00
ATOM	1425	HB2	LEU	X	93	32.640	58.229	32.729	0.00	0.00
ATOM	1426	HB3	LEU	X	93	32.228	57.058	33.869	0.00	0.00
ATOM	1427	CG	LEU	X	93	34.049	58.130	34.324	0.00	0.00
ATOM	1428	HG	LEU	X	93	34.794	58.747	33.822	0.00	0.00
ATOM	1429	CD1	LEU	X	93	33.242	59.043	35.286	0.00	0.00
ATOM	1430	HD11	LEU	X	93	33.859	59.419	36.102	0.00	0.00
ATOM	1431	HD12	LEU	X	93	32.366	58.498	35.638	0.00	0.00
ATOM	1432	HD13	LEU	X	93	32.879	59.939	34.782	0.00	0.00
ATOM	1433	CD2	LEU	X	93	34.892	57.096	35.163	0.00	0.00
ATOM	1434	HD21	LEU	X	93	34.308	56.333	35.679	0.00	0.00
ATOM	1435	HD22	LEU	X	93	35.596	56.526	34.557	0.00	0.00
ATOM	1436	HD23	LEU	X	93	35.530	57.617	35.877	0.00	0.00
ATOM	1437	C	LEU	X	93	32.826	55.843	31.334	0.00	0.00
ATOM	1438	O	LEU	X	93	32.333	56.637	30.587	0.00	0.00
ATOM	1439	N	TYR	X	94	32.613	54.488	31.286	0.00	0.00
ATOM	1440	H	TYR	X	94	32.971	53.963	32.071	0.00	0.00
ATOM	1441	CA	TYR	X	94	31.863	53.785	30.307	0.00	0.00
ATOM	1442	HA	TYR	X	94	30.910	54.250	30.057	0.00	0.00
ATOM	1443	CB	TYR	X	94	32.593	53.563	28.923	0.00	0.00
ATOM	1444	HB2	TYR	X	94	33.408	52.853	29.064	0.00	0.00
ATOM	1445	HB3	TYR	X	94	31.969	52.924	28.299	0.00	0.00
ATOM	1446	CG	TYR	X	94	33.090	54.724	28.168	0.00	0.00
ATOM	1447	CD1	TYR	X	94	32.242	55.432	27.283	0.00	0.00
ATOM	1448	HD1	TYR	X	94	31.236	55.061	27.153	0.00	0.00
ATOM	1449	CE1	TYR	X	94	32.673	56.563	26.551	0.00	0.00
ATOM	1450	HE1	TYR	X	94	32.058	57.018	25.788	0.00	0.00
ATOM	1451	CZ	TYR	X	94	34.004	56.933	26.791	0.00	0.00
ATOM	1452	OH	TYR	X	94	34.460	58.063	26.159	0.00	0.00
ATOM	1453	HH	TYR	X	94	35.367	58.336	26.311	0.00	0.00
ATOM	1454	CE2	TYR	X	94	34.908	56.240	27.706	0.00	0.00
ATOM	1455	HE2	TYR	X	94	35.923	56.563	27.884	0.00	0.00
ATOM	1456	CD2	TYR	X	94	34.384	55.206	28.416	0.00	0.00
ATOM	1457	HD2	TYR	X	94	34.930	54.674	29.181	0.00	0.00
ATOM	1458	C	TYR	X	94	31.317	52.446	30.827	0.00	0.00
ATOM	1459	O	TYR	X	94	31.834	51.847	31.803	0.00	0.00
ATOM	1460	N	LEU	X	95	30.265	51.953	30.127	0.00	0.00
ATOM	1461	H	LEU	X	95	29.891	52.513	29.374	0.00	0.00
ATOM	1462	CA	LEU	X	95	29.843	50.543	30.326	0.00	0.00
ATOM	1463	HA	LEU	X	95	30.789	50.076	30.600	0.00	0.00
ATOM	1464	CB	LEU	X	95	28.849	50.420	31.515	0.00	0.00
ATOM	1465	HB2	LEU	X	95	28.846	49.397	31.891	0.00	0.00
ATOM	1466	HB3	LEU	X	95	29.234	51.001	32.352	0.00	0.00
ATOM	1467	CG	LEU	X	95	27.324	50.624	31.186	0.00	0.00
ATOM	1468	HG	LEU	X	95	27.065	49.986	30.341	0.00	0.00
ATOM	1469	CD1	LEU	X	95	26.581	50.357	32.499	0.00	0.00
ATOM	1470	HD11	LEU	X	95	26.820	49.313	32.704	0.00	0.00
ATOM	1471	HD12	LEU	X	95	25.495	50.443	32.473	0.00	0.00
ATOM	1472	HD13	LEU	X	95	27.002	50.828	33.388	0.00	0.00
ATOM	1473	CD2	LEU	X	95	27.026	52.139	30.894	0.00	0.00
ATOM	1474	HD21	LEU	X	95	25.981	52.273	30.614	0.00	0.00
ATOM	1475	HD22	LEU	X	95	27.194	52.790	31.752	0.00	0.00
ATOM	1476	HD23	LEU	X	95	27.611	52.425	30.020	0.00	0.00
ATOM	1477	C	LEU	X	95	29.472	49.995	28.963	0.00	0.00
ATOM	1478	O	LEU	X	95	29.367	50.615	27.910	0.00	0.00

ATOM	1479	N	ASN	X	96	29.359	48.666	28.955	0.00	0.00
ATOM	1480	H	ASN	X	96	29.439	48.211	29.853	0.00	0.00
ATOM	1481	CA	ASN	X	96	29.025	47.827	27.809	0.00	0.00
ATOM	1482	HA	ASN	X	96	28.706	48.509	27.020	0.00	0.00
ATOM	1483	CB	ASN	X	96	30.298	47.175	27.347	0.00	0.00
ATOM	1484	HB2	ASN	X	96	30.441	46.300	27.981	0.00	0.00
ATOM	1485	HB3	ASN	X	96	30.201	46.853	26.310	0.00	0.00
ATOM	1486	CG	ASN	X	96	31.529	48.079	27.383	0.00	0.00
ATOM	1487	OD1	ASN	X	96	31.813	48.813	26.462	0.00	0.00
ATOM	1488	ND2	ASN	X	96	32.331	48.174	28.503	0.00	0.00
ATOM	1489	HD21	ASN	X	96	33.200	48.665	28.352	0.00	0.00
ATOM	1490	HD22	ASN	X	96	32.148	47.739	29.397	0.00	0.00
ATOM	1491	C	ASN	X	96	27.919	46.881	28.252	0.00	0.00
ATOM	1492	O	ASN	X	96	27.884	46.581	29.437	0.00	0.00
ATOM	1493	N	VAL	X	97	27.044	46.434	27.325	0.00	0.00
ATOM	1494	H	VAL	X	97	27.247	46.761	26.391	0.00	0.00
ATOM	1495	CA	VAL	X	97	25.973	45.430	27.452	0.00	0.00
ATOM	1496	HA	VAL	X	97	25.986	44.915	28.413	0.00	0.00
ATOM	1497	CB	VAL	X	97	24.552	46.044	27.309	0.00	0.00
ATOM	1498	HB	VAL	X	97	24.422	46.297	26.256	0.00	0.00
ATOM	1499	CG1	VAL	X	97	23.343	45.204	27.864	0.00	0.00
ATOM	1500	HG11	VAL	X	97	23.564	45.079	28.924	0.00	0.00
ATOM	1501	HG12	VAL	X	97	22.434	45.796	27.753	0.00	0.00
ATOM	1502	HG13	VAL	X	97	23.358	44.321	27.224	0.00	0.00
ATOM	1503	CG2	VAL	X	97	24.491	47.419	28.088	0.00	0.00
ATOM	1504	HG21	VAL	X	97	24.884	48.317	27.611	0.00	0.00
ATOM	1505	HG22	VAL	X	97	24.672	47.228	29.145	0.00	0.00
ATOM	1506	HG23	VAL	X	97	23.467	47.791	28.081	0.00	0.00
ATOM	1507	C	VAL	X	97	26.187	44.322	26.395	0.00	0.00
ATOM	1508	O	VAL	X	97	26.522	44.535	25.293	0.00	0.00
ATOM	1509	N	TRP	X	98	25.927	43.054	26.826	0.00	0.00
ATOM	1510	H	TRP	X	98	25.836	42.915	27.822	0.00	0.00
ATOM	1511	CA	TRP	X	98	25.563	41.857	26.012	0.00	0.00
ATOM	1512	HA	TRP	X	98	25.463	42.110	24.957	0.00	0.00
ATOM	1513	CB	TRP	X	98	26.596	40.678	26.188	0.00	0.00
ATOM	1514	HB2	TRP	X	98	26.814	40.519	27.244	0.00	0.00
ATOM	1515	HB3	TRP	X	98	26.254	39.716	25.805	0.00	0.00
ATOM	1516	CG	TRP	X	98	27.890	40.887	25.593	0.00	0.00
ATOM	1517	CD1	TRP	X	98	28.326	40.273	24.501	0.00	0.00
ATOM	1518	HD1	TRP	X	98	27.780	39.467	24.032	0.00	0.00
ATOM	1519	NE1	TRP	X	98	29.695	40.536	24.402	0.00	0.00
ATOM	1520	HE1	TRP	X	98	30.360	40.034	23.831	0.00	0.00
ATOM	1521	CE2	TRP	X	98	30.108	41.455	25.325	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	31.340	41.977	25.692	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	32.225	41.748	25.116	0.00	0.00
ATOM	1524	CH2	TRP	X	98	31.541	42.830	26.784	0.00	0.00
ATOM	1525	HH2	TRP	X	98	32.558	43.088	27.043	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	30.415	43.165	27.494	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	30.418	43.836	28.340	0.00	0.00
ATOM	1528	CE3	TRP	X	98	29.148	42.570	27.200	0.00	0.00
ATOM	1529	HE3	TRP	X	98	28.341	42.734	27.898	0.00	0.00
ATOM	1530	CD2	TRP	X	98	29.001	41.721	26.088	0.00	0.00
ATOM	1531	C	TRP	X	98	24.265	41.350	26.456	0.00	0.00
ATOM	1532	O	TRP	X	98	24.053	41.349	27.678	0.00	0.00
ATOM	1533	N	THR	X	99	23.371	41.042	25.509	0.00	0.00
ATOM	1534	H	THR	X	99	23.680	41.078	24.548	0.00	0.00
ATOM	1535	CA	THR	X	99	22.026	40.620	25.754	0.00	0.00
ATOM	1536	HA	THR	X	99	21.962	39.932	26.596	0.00	0.00
ATOM	1537	CB	THR	X	99	20.993	41.713	26.015	0.00	0.00
ATOM	1538	HB	THR	X	99	21.271	42.224	26.936	0.00	0.00
ATOM	1539	CG2	THR	X	99	20.937	42.700	24.738	0.00	0.00
ATOM	1540	HG21	THR	X	99	20.377	43.615	24.927	0.00	0.00
ATOM	1541	HG22	THR	X	99	20.273	42.275	23.985	0.00	0.00
ATOM	1542	HG23	THR	X	99	21.870	43.106	24.347	0.00	0.00
ATOM	1543	OG1	THR	X	99	19.646	41.319	26.055	0.00	0.00
ATOM	1544	HG1	THR	X	99	19.027	42.043	25.933	0.00	0.00
ATOM	1545	C	THR	X	99	21.589	39.801	24.467	0.00	0.00

ATOM	1546	O	THR	X	99	22.152	40.039	23.407	0.00	0.00
ATOM	1547	N	PRO	X	100	20.769	38.741	24.487	0.00	0.00
ATOM	1548	CD	PRO	X	100	20.155	38.078	25.602	0.00	0.00
ATOM	1549	HD2	PRO	X	100	19.271	38.691	25.777	0.00	0.00
ATOM	1550	HD3	PRO	X	100	20.683	38.002	26.552	0.00	0.00
ATOM	1551	CG	PRO	X	100	19.812	36.682	25.095	0.00	0.00
ATOM	1552	HG2	PRO	X	100	18.950	36.212	25.568	0.00	0.00
ATOM	1553	HG3	PRO	X	100	20.648	35.994	25.220	0.00	0.00
ATOM	1554	CB	PRO	X	100	19.616	36.891	23.625	0.00	0.00
ATOM	1555	HB2	PRO	X	100	18.579	37.205	23.505	0.00	0.00
ATOM	1556	HB3	PRO	X	100	19.860	35.989	23.063	0.00	0.00
ATOM	1557	CA	PRO	X	100	20.464	38.035	23.182	0.00	0.00
ATOM	1558	HA	PRO	X	100	21.349	37.465	22.901	0.00	0.00
ATOM	1559	C	PRO	X	100	19.888	38.786	21.975	0.00	0.00
ATOM	1560	O	PRO	X	100	19.210	39.785	22.255	0.00	0.00
ATOM	1561	N	TYR	X	101	20.048	38.322	20.749	0.00	0.00
ATOM	1562	H	TYR	X	101	20.621	37.500	20.625	0.00	0.00
ATOM	1563	CA	TYR	X	101	19.559	38.991	19.544	0.00	0.00
ATOM	1564	HA	TYR	X	101	19.231	40.012	19.737	0.00	0.00
ATOM	1565	CB	TYR	X	101	20.808	39.039	18.586	0.00	0.00
ATOM	1566	HB2	TYR	X	101	21.579	39.627	19.085	0.00	0.00
ATOM	1567	HB3	TYR	X	101	21.244	38.065	18.362	0.00	0.00
ATOM	1568	CG	TYR	X	101	20.569	39.616	17.203	0.00	0.00
ATOM	1569	CD1	TYR	X	101	20.067	38.727	16.191	0.00	0.00
ATOM	1570	HD1	TYR	X	101	19.902	37.676	16.382	0.00	0.00
ATOM	1571	CE1	TYR	X	101	19.856	39.225	14.878	0.00	0.00
ATOM	1572	HE1	TYR	X	101	19.474	38.598	14.086	0.00	0.00
ATOM	1573	CZ	TYR	X	101	20.105	40.607	14.580	0.00	0.00
ATOM	1574	OH	TYR	X	101	19.907	41.056	13.359	0.00	0.00
ATOM	1575	HH	TYR	X	101	19.483	40.403	12.797	0.00	0.00
ATOM	1576	CE2	TYR	X	101	20.645	41.465	15.617	0.00	0.00
ATOM	1577	HE2	TYR	X	101	20.828	42.515	15.442	0.00	0.00
ATOM	1578	CD2	TYR	X	101	20.927	40.913	16.886	0.00	0.00
ATOM	1579	HD2	TYR	X	101	21.231	41.530	17.718	0.00	0.00
ATOM	1580	C	TYR	X	101	18.496	38.061	18.927	0.00	0.00
ATOM	1581	O	TYR	X	101	18.821	36.964	18.521	0.00	0.00
ATOM	1582	N	PRO	X	102	17.189	38.498	18.863	0.00	0.00
ATOM	1583	CD	PRO	X	102	16.204	37.617	18.252	0.00	0.00
ATOM	1584	HD2	PRO	X	102	16.175	36.606	18.659	0.00	0.00
ATOM	1585	HD3	PRO	X	102	16.428	37.544	17.187	0.00	0.00
ATOM	1586	CG	PRO	X	102	14.845	38.288	18.584	0.00	0.00
ATOM	1587	HG2	PRO	X	102	14.501	37.978	19.570	0.00	0.00
ATOM	1588	HG3	PRO	X	102	14.087	38.012	17.851	0.00	0.00
ATOM	1589	CB	PRO	X	102	15.126	39.778	18.665	0.00	0.00
ATOM	1590	HB2	PRO	X	102	14.317	40.348	19.120	0.00	0.00
ATOM	1591	HB3	PRO	X	102	15.106	40.075	17.616	0.00	0.00
ATOM	1592	CA	PRO	X	102	16.580	39.772	19.324	0.00	0.00
ATOM	1593	HA	PRO	X	102	17.118	40.620	18.900	0.00	0.00
ATOM	1594	C	PRO	X	102	16.433	39.840	20.864	0.00	0.00
ATOM	1595	O	PRO	X	102	16.638	38.816	21.525	0.00	0.00
ATOM	1596	N	ARG	X	103	16.188	41.072	21.437	0.00	0.00
ATOM	1597	H	ARG	X	103	16.099	41.860	20.812	0.00	0.00
ATOM	1598	CA	ARG	X	103	16.380	41.306	22.869	0.00	0.00
ATOM	1599	HA	ARG	X	103	17.286	40.744	23.097	0.00	0.00
ATOM	1600	CB	ARG	X	103	16.400	42.814	23.152	0.00	0.00
ATOM	1601	HB2	ARG	X	103	15.464	43.304	22.885	0.00	0.00
ATOM	1602	HB3	ARG	X	103	16.508	42.989	24.223	0.00	0.00
ATOM	1603	CG	ARG	X	103	17.567	43.612	22.588	0.00	0.00
ATOM	1604	HG2	ARG	X	103	18.537	43.121	22.668	0.00	0.00
ATOM	1605	HG3	ARG	X	103	17.487	43.643	21.502	0.00	0.00
ATOM	1606	CD	ARG	X	103	17.658	45.053	23.180	0.00	0.00
ATOM	1607	HD2	ARG	X	103	17.910	44.833	24.217	0.00	0.00
ATOM	1608	HD3	ARG	X	103	18.496	45.579	22.722	0.00	0.00
ATOM	1609	NE	ARG	X	103	16.425	45.836	23.024	0.00	0.00
ATOM	1610	HE	ARG	X	103	15.871	45.910	23.865	0.00	0.00
ATOM	1611	CZ	ARG	X	103	16.194	46.552	21.925	0.00	0.00
ATOM	1612	NH1	ARG	X	103	17.036	46.666	20.957	0.00	0.00

ATOM	1613	HH11	ARG	X	103	17.828	46.053	20.825	0.00	0.00
ATOM	1614	HH12	ARG	X	103	16.808	47.329	20.230	0.00	0.00
ATOM	1615	NH2	ARG	X	103	15.066	47.272	21.829	0.00	0.00
ATOM	1616	HH21	ARG	X	103	14.493	47.251	22.661	0.00	0.00
ATOM	1617	HH22	ARG	X	103	14.873	47.978	21.133	0.00	0.00
ATOM	1618	C	ARG	X	103	15.179	40.732	23.664	0.00	0.00
ATOM	1619	O	ARG	X	103	14.014	40.907	23.300	0.00	0.00
ATOM	1620	N	PRO	X	104	15.449	40.292	24.928	0.00	0.00
ATOM	1621	CD	PRO	X	104	16.746	40.182	25.534	0.00	0.00
ATOM	1622	HD2	PRO	X	104	16.981	41.182	25.898	0.00	0.00
ATOM	1623	HD3	PRO	X	104	17.527	39.880	24.836	0.00	0.00
ATOM	1624	CG	PRO	X	104	16.694	39.064	26.580	0.00	0.00
ATOM	1625	HG2	PRO	X	104	17.402	39.143	27.405	0.00	0.00
ATOM	1626	HG3	PRO	X	104	16.696	38.083	26.104	0.00	0.00
ATOM	1627	CB	PRO	X	104	15.239	39.313	27.082	0.00	0.00
ATOM	1628	HB2	PRO	X	104	15.258	40.133	27.800	0.00	0.00
ATOM	1629	HB3	PRO	X	104	14.804	38.526	27.697	0.00	0.00
ATOM	1630	CA	PRO	X	104	14.480	39.740	25.887	0.00	0.00
ATOM	1631	HA	PRO	X	104	14.050	38.835	25.457	0.00	0.00
ATOM	1632	C	PRO	X	104	13.354	40.767	26.213	0.00	0.00
ATOM	1633	O	PRO	X	104	13.478	41.991	26.175	0.00	0.00
ATOM	1634	N	THR	X	105	12.194	40.153	26.508	0.00	0.00
ATOM	1635	H	THR	X	105	12.090	39.164	26.329	0.00	0.00
ATOM	1636	CA	THR	X	105	10.994	40.936	26.719	0.00	0.00
ATOM	1637	HA	THR	X	105	11.117	41.989	26.971	0.00	0.00
ATOM	1638	CB	THR	X	105	10.081	40.900	25.508	0.00	0.00
ATOM	1639	HB	THR	X	105	9.068	40.824	25.903	0.00	0.00
ATOM	1640	CG2	THR	X	105	10.193	42.209	24.580	0.00	0.00
ATOM	1641	HG21	THR	X	105	9.815	43.027	25.194	0.00	0.00
ATOM	1642	HG22	THR	X	105	9.375	42.142	23.863	0.00	0.00
ATOM	1643	HG23	THR	X	105	11.186	42.326	24.146	0.00	0.00
ATOM	1644	OG1	THR	X	105	10.299	39.701	24.803	0.00	0.00
ATOM	1645	HG1	THR	X	105	10.356	39.923	23.871	0.00	0.00
ATOM	1646	C	THR	X	105	10.316	40.350	27.914	0.00	0.00
ATOM	1647	O	THR	X	105	9.673	41.158	28.644	0.00	0.00
ATOM	1648	N	SER	X	106	10.419	39.071	28.268	0.00	0.00
ATOM	1649	H	SER	X	106	11.001	38.511	27.661	0.00	0.00
ATOM	1650	CA	SER	X	106	10.042	38.623	29.577	0.00	0.00
ATOM	1651	HA	SER	X	106	9.329	39.317	30.022	0.00	0.00
ATOM	1652	CB	SER	X	106	9.496	37.163	29.521	0.00	0.00
ATOM	1653	HB2	SER	X	106	9.772	36.648	30.441	0.00	0.00
ATOM	1654	HB3	SER	X	106	8.413	37.141	29.397	0.00	0.00
ATOM	1655	OG	SER	X	106	10.075	36.336	28.527	0.00	0.00
ATOM	1656	HG	SER	X	106	9.830	36.728	27.685	0.00	0.00
ATOM	1657	C	SER	X	106	11.281	38.600	30.474	0.00	0.00
ATOM	1658	O	SER	X	106	12.369	38.599	29.964	0.00	0.00
ATOM	1659	N	PRO	X	107	11.273	38.666	31.743	0.00	0.00
ATOM	1660	CD	PRO	X	107	10.044	38.665	32.573	0.00	0.00
ATOM	1661	HD2	PRO	X	107	9.325	37.883	32.328	0.00	0.00
ATOM	1662	HD3	PRO	X	107	9.559	39.634	32.459	0.00	0.00
ATOM	1663	CG	PRO	X	107	10.487	38.703	33.987	0.00	0.00
ATOM	1664	HG2	PRO	X	107	10.554	37.700	34.408	0.00	0.00
ATOM	1665	HG3	PRO	X	107	9.773	39.214	34.633	0.00	0.00
ATOM	1666	CB	PRO	X	107	11.887	39.414	33.939	0.00	0.00
ATOM	1667	HB2	PRO	X	107	12.550	39.034	34.716	0.00	0.00
ATOM	1668	HB3	PRO	X	107	11.787	40.493	34.056	0.00	0.00
ATOM	1669	CA	PRO	X	107	12.402	38.932	32.630	0.00	0.00
ATOM	1670	HA	PRO	X	107	12.915	39.799	32.215	0.00	0.00
ATOM	1671	C	PRO	X	107	13.425	37.733	32.744	0.00	0.00
ATOM	1672	O	PRO	X	107	13.163	36.614	32.706	0.00	0.00
ATOM	1673	N	THR	X	108	14.657	38.205	33.067	0.00	0.00
ATOM	1674	H	THR	X	108	14.731	39.197	33.244	0.00	0.00
ATOM	1675	CA	THR	X	108	15.991	37.453	33.150	0.00	0.00
ATOM	1676	HA	THR	X	108	15.833	36.461	33.573	0.00	0.00
ATOM	1677	CB	THR	X	108	16.480	37.110	31.748	0.00	0.00
ATOM	1678	HB	THR	X	108	15.761	36.434	31.286	0.00	0.00
ATOM	1679	CG2	THR	X	108	16.670	38.359	30.863	0.00	0.00

ATOM	1680	HG21	THR	X	108	15.634	38.678	30.742	0.00	0.00
ATOM	1681	HG22	THR	X	108	17.072	38.043	29.901	0.00	0.00
ATOM	1682	HG23	THR	X	108	17.337	39.114	31.278	0.00	0.00
ATOM	1683	OG1	THR	X	108	17.789	36.525	31.815	0.00	0.00
ATOM	1684	HG1	THR	X	108	18.408	36.971	31.233	0.00	0.00
ATOM	1685	C	THR	X	108	17.029	38.140	34.059	0.00	0.00
ATOM	1686	O	THR	X	108	17.143	39.343	33.962	0.00	0.00
ATOM	1687	N	PRO	X	109	17.615	37.408	35.041	0.00	0.00
ATOM	1688	CD	PRO	X	109	17.217	36.051	35.533	0.00	0.00
ATOM	1689	HD2	PRO	X	109	17.526	35.305	34.801	0.00	0.00
ATOM	1690	HD3	PRO	X	109	16.128	36.001	35.512	0.00	0.00
ATOM	1691	CG	PRO	X	109	17.921	35.888	36.935	0.00	0.00
ATOM	1692	HG2	PRO	X	109	18.112	34.822	37.057	0.00	0.00
ATOM	1693	HG3	PRO	X	109	17.324	36.280	37.759	0.00	0.00
ATOM	1694	CB	PRO	X	109	19.085	36.816	36.796	0.00	0.00
ATOM	1695	HB2	PRO	X	109	19.874	36.398	36.170	0.00	0.00
ATOM	1696	HB3	PRO	X	109	19.570	37.127	37.721	0.00	0.00
ATOM	1697	CA	PRO	X	109	18.598	37.920	35.913	0.00	0.00
ATOM	1698	HA	PRO	X	109	18.232	38.661	36.624	0.00	0.00
ATOM	1699	C	PRO	X	109	19.714	38.654	35.201	0.00	0.00
ATOM	1700	O	PRO	X	109	20.055	38.304	34.066	0.00	0.00
ATOM	1701	N	VAL	X	110	20.200	39.693	35.887	0.00	0.00
ATOM	1702	H	VAL	X	110	19.813	39.914	36.793	0.00	0.00
ATOM	1703	CA	VAL	X	110	21.229	40.602	35.416	0.00	0.00
ATOM	1704	HA	VAL	X	110	21.238	40.378	34.350	0.00	0.00
ATOM	1705	CB	VAL	X	110	20.924	42.124	35.457	0.00	0.00
ATOM	1706	HB	VAL	X	110	20.982	42.396	36.510	0.00	0.00
ATOM	1707	CG1	VAL	X	110	21.912	42.907	34.591	0.00	0.00
ATOM	1708	HG11	VAL	X	110	21.855	43.972	34.818	0.00	0.00
ATOM	1709	HG12	VAL	X	110	22.940	42.633	34.829	0.00	0.00
ATOM	1710	HG13	VAL	X	110	21.920	42.637	33.535	0.00	0.00
ATOM	1711	CG2	VAL	X	110	19.512	42.451	34.986	0.00	0.00
ATOM	1712	HG21	VAL	X	110	18.815	41.963	35.668	0.00	0.00
ATOM	1713	HG22	VAL	X	110	19.412	42.030	33.986	0.00	0.00
ATOM	1714	HG23	VAL	X	110	19.352	43.525	34.890	0.00	0.00
ATOM	1715	C	VAL	X	110	22.510	40.219	36.090	0.00	0.00
ATOM	1716	O	VAL	X	110	22.576	40.115	37.316	0.00	0.00
ATOM	1717	N	LEU	X	111	23.583	39.986	35.287	0.00	0.00
ATOM	1718	H	LEU	X	111	23.444	39.987	34.287	0.00	0.00
ATOM	1719	CA	LEU	X	111	24.950	39.811	35.824	0.00	0.00
ATOM	1720	HA	LEU	X	111	24.897	39.689	36.906	0.00	0.00
ATOM	1721	CB	LEU	X	111	25.597	38.551	35.086	0.00	0.00
ATOM	1722	HB2	LEU	X	111	25.580	38.714	34.008	0.00	0.00
ATOM	1723	HB3	LEU	X	111	26.669	38.657	35.255	0.00	0.00
ATOM	1724	CG	LEU	X	111	25.088	37.141	35.465	0.00	0.00
ATOM	1725	HG	LEU	X	111	24.006	37.137	35.335	0.00	0.00
ATOM	1726	CD1	LEU	X	111	25.750	36.135	34.535	0.00	0.00
ATOM	1727	HD11	LEU	X	111	25.490	36.447	33.523	0.00	0.00
ATOM	1728	HD12	LEU	X	111	25.459	35.108	34.759	0.00	0.00
ATOM	1729	HD13	LEU	X	111	26.831	36.055	34.652	0.00	0.00
ATOM	1730	CD2	LEU	X	111	25.489	36.849	36.992	0.00	0.00
ATOM	1731	HD21	LEU	X	111	25.079	35.904	37.349	0.00	0.00
ATOM	1732	HD22	LEU	X	111	26.560	36.839	37.193	0.00	0.00
ATOM	1733	HD23	LEU	X	111	25.128	37.619	37.675	0.00	0.00
ATOM	1734	C	LEU	X	111	25.758	41.096	35.534	0.00	0.00
ATOM	1735	O	LEU	X	111	25.847	41.521	34.378	0.00	0.00
ATOM	1736	N	VAL	X	112	26.354	41.713	36.538	0.00	0.00
ATOM	1737	H	VAL	X	112	26.215	41.339	37.466	0.00	0.00
ATOM	1738	CA	VAL	X	112	27.004	43.051	36.469	0.00	0.00
ATOM	1739	HA	VAL	X	112	27.030	43.361	35.425	0.00	0.00
ATOM	1740	CB	VAL	X	112	26.296	44.146	37.322	0.00	0.00
ATOM	1741	HB	VAL	X	112	26.159	43.855	38.363	0.00	0.00
ATOM	1742	CG1	VAL	X	112	27.177	45.485	37.210	0.00	0.00
ATOM	1743	HG11	VAL	X	112	28.253	45.326	37.282	0.00	0.00
ATOM	1744	HG12	VAL	X	112	26.970	46.123	36.351	0.00	0.00
ATOM	1745	HG13	VAL	X	112	26.969	46.089	38.093	0.00	0.00
ATOM	1746	CG2	VAL	X	112	24.872	44.466	36.817	0.00	0.00

ATOM	1747	HG21	VAL	X	112	25.007	44.831	35.799	0.00	0.00
ATOM	1748	HG22	VAL	X	112	24.554	45.314	37.424	0.00	0.00
ATOM	1749	HG23	VAL	X	112	24.186	43.628	36.935	0.00	0.00
ATOM	1750	C	VAL	X	112	28.507	42.778	36.772	0.00	0.00
ATOM	1751	O	VAL	X	112	28.798	42.599	37.917	0.00	0.00
ATOM	1752	N	TRP	X	113	29.411	42.791	35.775	0.00	0.00
ATOM	1753	H	TRP	X	113	28.990	42.879	34.861	0.00	0.00
ATOM	1754	CA	TRP	X	113	30.842	42.501	35.911	0.00	0.00
ATOM	1755	HA	TRP	X	113	30.826	41.736	36.688	0.00	0.00
ATOM	1756	CB	TRP	X	113	31.166	41.796	34.608	0.00	0.00
ATOM	1757	HB2	TRP	X	113	30.406	41.028	34.460	0.00	0.00
ATOM	1758	HB3	TRP	X	113	31.064	42.522	33.802	0.00	0.00
ATOM	1759	CG	TRP	X	113	32.515	41.272	34.555	0.00	0.00
ATOM	1760	CD1	TRP	X	113	33.575	41.732	33.881	0.00	0.00
ATOM	1761	HD1	TRP	X	113	33.562	42.604	33.245	0.00	0.00
ATOM	1762	NE1	TRP	X	113	34.678	40.956	34.145	0.00	0.00
ATOM	1763	HE1	TRP	X	113	35.599	41.158	33.782	0.00	0.00
ATOM	1764	CE2	TRP	X	113	34.381	40.020	35.028	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	35.227	39.041	35.659	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	36.282	39.020	35.430	0.00	0.00
ATOM	1767	CH2	TRP	X	113	34.637	38.254	36.695	0.00	0.00
ATOM	1768	HH2	TRP	X	113	35.195	37.516	37.252	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	33.227	38.380	37.009	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	32.897	37.985	37.959	0.00	0.00
ATOM	1771	CE3	TRP	X	113	32.455	39.260	36.277	0.00	0.00
ATOM	1772	HE3	TRP	X	113	31.417	39.397	36.545	0.00	0.00
ATOM	1773	CD2	TRP	X	113	33.047	40.139	35.355	0.00	0.00
ATOM	1774	C	TRP	X	113	31.818	43.695	36.247	0.00	0.00
ATOM	1775	O	TRP	X	113	31.771	44.698	35.578	0.00	0.00
ATOM	1776	N	ILE	X	114	32.561	43.458	37.288	0.00	0.00
ATOM	1777	H	ILE	X	114	32.545	42.511	37.640	0.00	0.00
ATOM	1778	CA	ILE	X	114	33.535	44.344	37.913	0.00	0.00
ATOM	1779	HA	ILE	X	114	33.643	45.200	37.247	0.00	0.00
ATOM	1780	CB	ILE	X	114	32.796	44.878	39.135	0.00	0.00
ATOM	1781	HB	ILE	X	114	32.722	43.985	39.756	0.00	0.00
ATOM	1782	CG2	ILE	X	114	33.603	45.910	39.967	0.00	0.00
ATOM	1783	HG21	ILE	X	114	33.696	46.867	39.453	0.00	0.00
ATOM	1784	HG22	ILE	X	114	34.477	45.402	40.375	0.00	0.00
ATOM	1785	HG23	ILE	X	114	33.005	46.129	40.851	0.00	0.00
ATOM	1786	CG1	ILE	X	114	31.425	45.524	38.885	0.00	0.00
ATOM	1787	HG12	ILE	X	114	31.567	46.195	38.038	0.00	0.00
ATOM	1788	HG13	ILE	X	114	30.761	44.710	38.595	0.00	0.00
ATOM	1789	CD1	ILE	X	114	30.619	46.268	39.970	0.00	0.00
ATOM	1790	HD11	ILE	X	114	29.605	46.447	39.611	0.00	0.00
ATOM	1791	HD12	ILE	X	114	31.033	47.265	40.122	0.00	0.00
ATOM	1792	HD13	ILE	X	114	30.595	45.761	40.935	0.00	0.00
ATOM	1793	C	ILE	X	114	34.926	43.703	38.108	0.00	0.00
ATOM	1794	O	ILE	X	114	34.936	42.512	38.540	0.00	0.00
ATOM	1795	N	TYR	X	115	35.963	44.233	37.454	0.00	0.00
ATOM	1796	H	TYR	X	115	36.030	45.209	37.201	0.00	0.00
ATOM	1797	CA	TYR	X	115	37.152	43.432	37.082	0.00	0.00
ATOM	1798	HA	TYR	X	115	36.909	42.373	37.165	0.00	0.00
ATOM	1799	CB	TYR	X	115	37.553	43.879	35.739	0.00	0.00
ATOM	1800	HB2	TYR	X	115	38.480	43.390	35.441	0.00	0.00
ATOM	1801	HB3	TYR	X	115	36.920	43.338	35.036	0.00	0.00
ATOM	1802	CG	TYR	X	115	37.606	45.352	35.451	0.00	0.00
ATOM	1803	CD1	TYR	X	115	38.561	46.196	36.126	0.00	0.00
ATOM	1804	HD1	TYR	X	115	39.105	45.791	36.967	0.00	0.00
ATOM	1805	CE1	TYR	X	115	38.683	47.545	35.767	0.00	0.00
ATOM	1806	HE1	TYR	X	115	39.337	48.210	36.311	0.00	0.00
ATOM	1807	CZ	TYR	X	115	37.858	48.047	34.723	0.00	0.00
ATOM	1808	OH	TYR	X	115	37.937	49.344	34.424	0.00	0.00
ATOM	1809	HH	TYR	X	115	37.474	49.549	33.608	0.00	0.00
ATOM	1810	CE2	TYR	X	115	36.873	47.201	34.111	0.00	0.00
ATOM	1811	HE2	TYR	X	115	36.180	47.675	33.432	0.00	0.00
ATOM	1812	CD2	TYR	X	115	36.812	45.856	34.493	0.00	0.00
ATOM	1813	HD2	TYR	X	115	36.129	45.177	34.006	0.00	0.00

ATOM	1814	C	TYR	X	115	38.269	43.504	38.129	0.00	0.00
ATOM	1815	O	TYR	X	115	38.235	44.422	38.948	0.00	0.00
ATOM	1816	N	GLY	X	116	39.257	42.576	38.067	0.00	0.00
ATOM	1817	H	GLY	X	116	39.159	41.813	37.413	0.00	0.00
ATOM	1818	CA	GLY	X	116	40.540	42.755	38.690	0.00	0.00
ATOM	1819	HA2	GLY	X	116	40.440	43.139	39.705	0.00	0.00
ATOM	1820	HA3	GLY	X	116	40.834	41.706	38.718	0.00	0.00
ATOM	1821	C	GLY	X	116	41.557	43.592	37.934	0.00	0.00
ATOM	1822	O	GLY	X	116	41.141	44.412	37.094	0.00	0.00
ATOM	1823	N	GLY	X	117	42.737	43.403	38.405	0.00	0.00
ATOM	1824	H	GLY	X	117	42.776	42.692	39.121	0.00	0.00
ATOM	1825	CA	GLY	X	117	43.923	44.194	38.087	0.00	0.00
ATOM	1826	HA2	GLY	X	117	44.687	43.423	37.989	0.00	0.00
ATOM	1827	HA3	GLY	X	117	43.777	44.674	37.119	0.00	0.00
ATOM	1828	C	GLY	X	117	44.496	45.037	39.175	0.00	0.00
ATOM	1829	O	GLY	X	117	45.318	45.921	38.818	0.00	0.00
ATOM	1830	N	GLY	X	118	44.271	44.689	40.413	0.00	0.00
ATOM	1831	H	GLY	X	118	43.590	43.955	40.547	0.00	0.00
ATOM	1832	CA	GLY	X	118	44.915	45.107	41.603	0.00	0.00
ATOM	1833	HA2	GLY	X	118	44.457	44.550	42.420	0.00	0.00
ATOM	1834	HA3	GLY	X	118	45.993	44.961	41.533	0.00	0.00
ATOM	1835	C	GLY	X	118	44.736	46.557	41.995	0.00	0.00
ATOM	1836	O	GLY	X	118	45.594	47.129	42.663	0.00	0.00
ATOM	1837	N	PHE	X	119	43.572	47.123	41.659	0.00	0.00
ATOM	1838	H	PHE	X	119	43.039	46.584	40.992	0.00	0.00
ATOM	1839	CA	PHE	X	119	43.172	48.567	41.869	0.00	0.00
ATOM	1840	HA	PHE	X	119	42.210	48.731	41.383	0.00	0.00
ATOM	1841	CB	PHE	X	119	43.042	49.009	43.365	0.00	0.00
ATOM	1842	HB2	PHE	X	119	43.985	48.720	43.829	0.00	0.00
ATOM	1843	HB3	PHE	X	119	42.944	50.087	43.491	0.00	0.00
ATOM	1844	CG	PHE	X	119	41.814	48.310	44.049	0.00	0.00
ATOM	1845	CD1	PHE	X	119	40.503	48.721	43.699	0.00	0.00
ATOM	1846	HD1	PHE	X	119	40.380	49.319	42.808	0.00	0.00
ATOM	1847	CE1	PHE	X	119	39.405	48.179	44.412	0.00	0.00
ATOM	1848	HE1	PHE	X	119	38.462	48.541	44.030	0.00	0.00
ATOM	1849	CZ	PHE	X	119	39.647	47.254	45.472	0.00	0.00
ATOM	1850	HZ	PHE	X	119	38.830	46.930	46.099	0.00	0.00
ATOM	1851	CE2	PHE	X	119	40.922	46.795	45.761	0.00	0.00
ATOM	1852	HE2	PHE	X	119	41.065	45.931	46.393	0.00	0.00
ATOM	1853	CD2	PHE	X	119	42.012	47.323	45.084	0.00	0.00
ATOM	1854	HD2	PHE	X	119	42.999	47.004	45.386	0.00	0.00
ATOM	1855	C	PHE	X	119	44.057	49.618	41.170	0.00	0.00
ATOM	1856	O	PHE	X	119	43.545	50.659	40.862	0.00	0.00
ATOM	1857	N	TYR	X	120	45.337	49.324	40.829	0.00	0.00
ATOM	1858	H	TYR	X	120	45.758	48.466	41.154	0.00	0.00
ATOM	1859	CA	TYR	X	120	46.182	50.142	39.967	0.00	0.00
ATOM	1860	HA	TYR	X	120	46.146	51.174	40.317	0.00	0.00
ATOM	1861	CB	TYR	X	120	47.629	49.690	40.063	0.00	0.00
ATOM	1862	HB2	TYR	X	120	48.298	50.416	39.601	0.00	0.00
ATOM	1863	HB3	TYR	X	120	47.856	49.734	41.129	0.00	0.00
ATOM	1864	CG	TYR	X	120	48.058	48.396	39.462	0.00	0.00
ATOM	1865	CD1	TYR	X	120	48.765	48.400	38.246	0.00	0.00
ATOM	1866	HD1	TYR	X	120	48.941	49.366	37.796	0.00	0.00
ATOM	1867	CE1	TYR	X	120	49.253	47.201	37.740	0.00	0.00
ATOM	1868	HE1	TYR	X	120	49.711	47.303	36.767	0.00	0.00
ATOM	1869	CZ	TYR	X	120	49.146	46.031	38.496	0.00	0.00
ATOM	1870	OH	TYR	X	120	49.624	44.860	37.979	0.00	0.00
ATOM	1871	HH	TYR	X	120	49.922	44.919	37.069	0.00	0.00
ATOM	1872	CE2	TYR	X	120	48.391	46.004	39.646	0.00	0.00
ATOM	1873	HE2	TYR	X	120	48.202	45.127	40.247	0.00	0.00
ATOM	1874	CD2	TYR	X	120	47.917	47.214	40.223	0.00	0.00
ATOM	1875	HD2	TYR	X	120	47.510	47.211	41.224	0.00	0.00
ATOM	1876	C	TYR	X	120	45.879	50.086	38.478	0.00	0.00
ATOM	1877	O	TYR	X	120	46.311	50.948	37.709	0.00	0.00
ATOM	1878	N	SER	X	121	45.202	49.029	37.963	0.00	0.00
ATOM	1879	H	SER	X	121	44.856	48.349	38.625	0.00	0.00
ATOM	1880	CA	SER	X	121	44.910	48.736	36.536	0.00	0.00

ATOM	1881	HA	SER	X	121	44.729	49.634	35.945	0.00	0.00
ATOM	1882	CB	SER	X	121	46.199	48.055	36.014	0.00	0.00
ATOM	1883	HB2	SER	X	121	46.199	48.079	34.924	0.00	0.00
ATOM	1884	HB3	SER	X	121	47.138	48.506	36.336	0.00	0.00
ATOM	1885	OG	SER	X	121	46.232	46.593	36.249	0.00	0.00
ATOM	1886	HG	SER	X	121	46.173	46.359	37.178	0.00	0.00
ATOM	1887	C	SER	X	121	43.684	47.929	36.354	0.00	0.00
ATOM	1888	O	SER	X	121	43.258	47.375	37.348	0.00	0.00
ATOM	1889	N	GLY	X	122	43.205	47.725	35.141	0.00	0.00
ATOM	1890	H	GLY	X	122	43.758	48.036	34.355	0.00	0.00
ATOM	1891	CA	GLY	X	122	41.969	47.072	34.832	0.00	0.00
ATOM	1892	HA2	GLY	X	122	42.184	46.041	34.553	0.00	0.00
ATOM	1893	HA3	GLY	X	122	41.391	47.094	35.755	0.00	0.00
ATOM	1894	C	GLY	X	122	41.213	47.794	33.661	0.00	0.00
ATOM	1895	O	GLY	X	122	41.361	48.994	33.479	0.00	0.00
ATOM	1896	N	ALA	X	123	40.412	47.028	32.819	0.00	0.00
ATOM	1897	H	ALA	X	123	40.173	46.069	33.027	0.00	0.00
ATOM	1898	CA	ALA	X	123	39.751	47.618	31.608	0.00	0.00
ATOM	1899	HA	ALA	X	123	39.334	48.593	31.861	0.00	0.00
ATOM	1900	CB	ALA	X	123	40.840	47.817	30.527	0.00	0.00
ATOM	1901	HB1	ALA	X	123	41.194	48.831	30.711	0.00	0.00
ATOM	1902	HB2	ALA	X	123	40.479	47.741	29.501	0.00	0.00
ATOM	1903	HB3	ALA	X	123	41.611	47.068	30.704	0.00	0.00
ATOM	1904	C	ALA	X	123	38.614	46.721	31.044	0.00	0.00
ATOM	1905	O	ALA	X	123	38.895	45.634	30.586	0.00	0.00
ATOM	1906	N	SER	X	124	37.318	47.148	30.945	0.00	0.00
ATOM	1907	H	SER	X	124	37.093	48.067	31.299	0.00	0.00
ATOM	1908	CA	SER	X	124	36.192	46.265	30.618	0.00	0.00
ATOM	1909	HA	SER	X	124	36.267	45.424	31.308	0.00	0.00
ATOM	1910	CB	SER	X	124	34.814	46.937	30.888	0.00	0.00
ATOM	1911	HB2	SER	X	124	34.180	46.926	30.001	0.00	0.00
ATOM	1912	HB3	SER	X	124	34.298	46.417	31.695	0.00	0.00
ATOM	1913	OG	SER	X	124	34.849	48.337	31.105	0.00	0.00
ATOM	1914	HG	SER	X	124	34.658	48.558	32.020	0.00	0.00
ATOM	1915	C	SER	X	124	36.243	45.788	29.105	0.00	0.00
ATOM	1916	O	SER	X	124	35.583	44.835	28.715	0.00	0.00
ATOM	1917	N	SER	X	125	37.106	46.400	28.266	0.00	0.00
ATOM	1918	H	SER	X	125	37.775	47.043	28.664	0.00	0.00
ATOM	1919	CA	SER	X	125	37.360	46.011	26.902	0.00	0.00
ATOM	1920	HA	SER	X	125	36.410	46.058	26.370	0.00	0.00
ATOM	1921	CB	SER	X	125	38.172	47.058	26.213	0.00	0.00
ATOM	1922	HB2	SER	X	125	38.495	46.792	25.207	0.00	0.00
ATOM	1923	HB3	SER	X	125	37.600	47.950	25.957	0.00	0.00
ATOM	1924	OG	SER	X	125	39.371	47.355	26.826	0.00	0.00
ATOM	1925	HG	SER	X	125	40.044	46.869	26.344	0.00	0.00
ATOM	1926	C	SER	X	125	38.156	44.634	26.816	0.00	0.00
ATOM	1927	O	SER	X	125	38.279	44.006	25.750	0.00	0.00
ATOM	1928	N	LEU	X	126	38.720	44.137	27.914	0.00	0.00
ATOM	1929	H	LEU	X	126	38.501	44.620	28.774	0.00	0.00
ATOM	1930	CA	LEU	X	126	39.647	42.914	27.945	0.00	0.00
ATOM	1931	HA	LEU	X	126	40.346	43.060	27.121	0.00	0.00
ATOM	1932	CB	LEU	X	126	40.422	42.743	29.307	0.00	0.00
ATOM	1933	HB2	LEU	X	126	39.666	42.572	30.074	0.00	0.00
ATOM	1934	HB3	LEU	X	126	41.026	41.847	29.165	0.00	0.00
ATOM	1935	CG	LEU	X	126	41.344	43.922	29.753	0.00	0.00
ATOM	1936	HG	LEU	X	126	40.885	44.911	29.764	0.00	0.00
ATOM	1937	CD1	LEU	X	126	41.822	43.782	31.187	0.00	0.00
ATOM	1938	HD11	LEU	X	126	40.969	43.909	31.853	0.00	0.00
ATOM	1939	HD12	LEU	X	126	42.459	44.629	31.445	0.00	0.00
ATOM	1940	HD13	LEU	X	126	42.454	42.906	31.334	0.00	0.00
ATOM	1941	CD2	LEU	X	126	42.691	43.954	28.883	0.00	0.00
ATOM	1942	HD21	LEU	X	126	43.315	43.076	29.048	0.00	0.00
ATOM	1943	HD22	LEU	X	126	42.471	43.938	27.816	0.00	0.00
ATOM	1944	HD23	LEU	X	126	43.345	44.791	29.128	0.00	0.00
ATOM	1945	C	LEU	X	126	38.728	41.746	27.474	0.00	0.00
ATOM	1946	O	LEU	X	126	37.813	41.355	28.158	0.00	0.00
ATOM	1947	N	ASP	X	127	39.162	41.175	26.344	0.00	0.00

ATOM	1948	H	ASP	X	127	39.963	41.539	25.848	0.00	0.00
ATOM	1949	CA	ASP	X	127	38.377	40.251	25.627	0.00	0.00
ATOM	1950	HA	ASP	X	127	37.408	40.737	25.513	0.00	0.00
ATOM	1951	CB	ASP	X	127	38.944	40.032	24.192	0.00	0.00
ATOM	1952	HB2	ASP	X	127	38.216	39.628	23.489	0.00	0.00
ATOM	1953	HB3	ASP	X	127	39.271	40.988	23.785	0.00	0.00
ATOM	1954	CG	ASP	X	127	40.220	39.159	24.102	0.00	0.00
ATOM	1955	OD1	ASP	X	127	41.211	39.787	23.723	0.00	0.00
ATOM	1956	OD2	ASP	X	127	40.196	37.921	24.316	0.00	0.00
ATOM	1957	C	ASP	X	127	38.136	38.866	26.413	0.00	0.00
ATOM	1958	O	ASP	X	127	37.234	38.112	26.066	0.00	0.00
ATOM	1959	N	VAL	X	128	38.904	38.675	27.508	0.00	0.00
ATOM	1960	H	VAL	X	128	39.653	39.280	27.813	0.00	0.00
ATOM	1961	CA	VAL	X	128	38.722	37.473	28.419	0.00	0.00
ATOM	1962	HA	VAL	X	128	38.680	36.608	27.756	0.00	0.00
ATOM	1963	CB	VAL	X	128	39.943	37.320	29.363	0.00	0.00
ATOM	1964	HB	VAL	X	128	40.822	37.398	28.723	0.00	0.00
ATOM	1965	CG1	VAL	X	128	40.097	38.557	30.285	0.00	0.00
ATOM	1966	HG11	VAL	X	128	41.146	38.684	30.552	0.00	0.00
ATOM	1967	HG12	VAL	X	128	39.764	39.500	29.849	0.00	0.00
ATOM	1968	HG13	VAL	X	128	39.569	38.368	31.219	0.00	0.00
ATOM	1969	CG2	VAL	X	128	39.874	36.031	30.116	0.00	0.00
ATOM	1970	HG21	VAL	X	128	40.855	35.742	30.495	0.00	0.00
ATOM	1971	HG22	VAL	X	128	39.681	35.221	29.412	0.00	0.00
ATOM	1972	HG23	VAL	X	128	39.178	35.956	30.951	0.00	0.00
ATOM	1973	C	VAL	X	128	37.363	37.474	29.163	0.00	0.00
ATOM	1974	O	VAL	X	128	36.909	36.451	29.535	0.00	0.00
ATOM	1975	N	TYR	X	129	36.768	38.643	29.391	0.00	0.00
ATOM	1976	H	TYR	X	129	37.302	39.496	29.299	0.00	0.00
ATOM	1977	CA	TYR	X	129	35.475	38.921	30.009	0.00	0.00
ATOM	1978	HA	TYR	X	129	35.168	38.154	30.719	0.00	0.00
ATOM	1979	CB	TYR	X	129	35.557	40.270	30.797	0.00	0.00
ATOM	1980	HB2	TYR	X	129	35.555	41.113	30.105	0.00	0.00
ATOM	1981	HB3	TYR	X	129	34.700	40.375	31.462	0.00	0.00
ATOM	1982	CG	TYR	X	129	36.730	40.452	31.688	0.00	0.00
ATOM	1983	CD1	TYR	X	129	37.270	39.541	32.589	0.00	0.00
ATOM	1984	HD1	TYR	X	129	36.732	38.605	32.614	0.00	0.00
ATOM	1985	CE1	TYR	X	129	38.268	39.789	33.531	0.00	0.00
ATOM	1986	HE1	TYR	X	129	38.647	39.032	34.201	0.00	0.00
ATOM	1987	CZ	TYR	X	129	38.866	41.097	33.539	0.00	0.00
ATOM	1988	OH	TYR	X	129	39.855	41.309	34.505	0.00	0.00
ATOM	1989	HH	TYR	X	129	39.855	40.713	35.257	0.00	0.00
ATOM	1990	CE2	TYR	X	129	38.554	41.982	32.466	0.00	0.00
ATOM	1991	HE2	TYR	X	129	39.048	42.941	32.505	0.00	0.00
ATOM	1992	CD2	TYR	X	129	37.452	41.672	31.584	0.00	0.00
ATOM	1993	HD2	TYR	X	129	37.163	42.310	30.762	0.00	0.00
ATOM	1994	C	TYR	X	129	34.304	39.063	29.024	0.00	0.00
ATOM	1995	O	TYR	X	129	33.204	39.318	29.431	0.00	0.00
ATOM	1996	N	ASP	X	130	34.532	38.918	27.706	0.00	0.00
ATOM	1997	H	ASP	X	130	35.495	38.926	27.401	0.00	0.00
ATOM	1998	CA	ASP	X	130	33.452	38.958	26.675	0.00	0.00
ATOM	1999	HA	ASP	X	130	33.019	39.956	26.744	0.00	0.00
ATOM	2000	CB	ASP	X	130	33.937	38.768	25.250	0.00	0.00
ATOM	2001	HB2	ASP	X	130	34.710	39.522	25.105	0.00	0.00
ATOM	2002	HB3	ASP	X	130	34.298	37.747	25.124	0.00	0.00
ATOM	2003	CG	ASP	X	130	32.874	39.203	24.181	0.00	0.00
ATOM	2004	OD1	ASP	X	130	31.819	38.524	24.111	0.00	0.00
ATOM	2005	OD2	ASP	X	130	33.094	40.012	23.336	0.00	0.00
ATOM	2006	C	ASP	X	130	32.290	37.970	26.906	0.00	0.00
ATOM	2007	O	ASP	X	130	32.640	36.820	27.134	0.00	0.00
ATOM	2008	N	GLY	X	131	31.083	38.453	27.007	0.00	0.00
ATOM	2009	H	GLY	X	131	30.959	39.403	26.689	0.00	0.00
ATOM	2010	CA	GLY	X	131	29.885	37.886	27.562	0.00	0.00
ATOM	2011	HA2	GLY	X	131	30.234	37.132	28.267	0.00	0.00
ATOM	2012	HA3	GLY	X	131	29.419	38.709	28.104	0.00	0.00
ATOM	2013	C	GLY	X	131	28.896	37.197	26.613	0.00	0.00
ATOM	2014	O	GLY	X	131	27.906	36.623	27.069	0.00	0.00

ATOM	2015	N	ARG	X	132	29.275	37.045	25.267	0.00	0.00
ATOM	2016	H	ARG	X	132	30.212	37.339	25.031	0.00	0.00
ATOM	2017	CA	ARG	X	132	28.568	36.381	24.189	0.00	0.00
ATOM	2018	HA	ARG	X	132	27.616	36.886	24.025	0.00	0.00
ATOM	2019	CB	ARG	X	132	29.233	36.618	22.868	0.00	0.00
ATOM	2020	HB2	ARG	X	132	28.533	36.570	22.034	0.00	0.00
ATOM	2021	HB3	ARG	X	132	29.563	37.653	22.772	0.00	0.00
ATOM	2022	CG	ARG	X	132	30.490	35.808	22.587	0.00	0.00
ATOM	2023	HG2	ARG	X	132	31.092	36.021	23.471	0.00	0.00
ATOM	2024	HG3	ARG	X	132	30.297	34.755	22.385	0.00	0.00
ATOM	2025	CD	ARG	X	132	31.316	36.281	21.337	0.00	0.00
ATOM	2026	HD2	ARG	X	132	32.035	35.493	21.110	0.00	0.00
ATOM	2027	HD3	ARG	X	132	30.646	36.360	20.481	0.00	0.00
ATOM	2028	NE	ARG	X	132	32.014	37.527	21.485	0.00	0.00
ATOM	2029	HE	ARG	X	132	31.956	38.079	22.329	0.00	0.00
ATOM	2030	CZ	ARG	X	132	32.772	38.071	20.488	0.00	0.00
ATOM	2031	NH1	ARG	X	132	32.858	37.657	19.185	0.00	0.00
ATOM	2032	HH11	ARG	X	132	32.458	36.757	18.965	0.00	0.00
ATOM	2033	HH12	ARG	X	132	33.478	38.218	18.618	0.00	0.00
ATOM	2034	NH2	ARG	X	132	33.372	39.194	20.650	0.00	0.00
ATOM	2035	HH21	ARG	X	132	33.390	39.618	21.567	0.00	0.00
ATOM	2036	HH22	ARG	X	132	33.903	39.704	19.958	0.00	0.00
ATOM	2037	C	ARG	X	132	28.273	34.951	24.583	0.00	0.00
ATOM	2038	O	ARG	X	132	27.166	34.465	24.474	0.00	0.00
ATOM	2039	N	PHE	X	133	29.267	34.137	24.979	0.00	0.00
ATOM	2040	H	PHE	X	133	30.166	34.545	25.194	0.00	0.00
ATOM	2041	CA	PHE	X	133	29.132	32.704	25.155	0.00	0.00
ATOM	2042	HA	PHE	X	133	28.714	32.280	24.241	0.00	0.00
ATOM	2043	CB	PHE	X	133	30.411	31.933	25.226	0.00	0.00
ATOM	2044	HB2	PHE	X	133	31.106	32.487	25.858	0.00	0.00
ATOM	2045	HB3	PHE	X	133	30.205	30.953	25.658	0.00	0.00
ATOM	2046	CG	PHE	X	133	31.051	31.733	23.831	0.00	0.00
ATOM	2047	CD1	PHE	X	133	31.991	32.716	23.359	0.00	0.00
ATOM	2048	HD1	PHE	X	133	32.299	33.524	24.006	0.00	0.00
ATOM	2049	CE1	PHE	X	133	32.529	32.611	22.064	0.00	0.00
ATOM	2050	HE1	PHE	X	133	33.185	33.365	21.655	0.00	0.00
ATOM	2051	CZ	PHE	X	133	32.314	31.446	21.288	0.00	0.00
ATOM	2052	HZ	PHE	X	133	32.853	31.307	20.363	0.00	0.00
ATOM	2053	CE2	PHE	X	133	31.502	30.372	21.807	0.00	0.00
ATOM	2054	HE2	PHE	X	133	31.371	29.469	21.229	0.00	0.00
ATOM	2055	CD2	PHE	X	133	30.810	30.589	23.030	0.00	0.00
ATOM	2056	HD2	PHE	X	133	30.085	29.850	23.340	0.00	0.00
ATOM	2057	C	PHE	X	133	28.243	32.311	26.381	0.00	0.00
ATOM	2058	O	PHE	X	133	27.370	31.453	26.236	0.00	0.00
ATOM	2059	N	LEU	X	134	28.352	33.154	27.403	0.00	0.00
ATOM	2060	H	LEU	X	134	29.072	33.859	27.343	0.00	0.00
ATOM	2061	CA	LEU	X	134	27.466	33.022	28.568	0.00	0.00
ATOM	2062	HA	LEU	X	134	27.598	31.957	28.759	0.00	0.00
ATOM	2063	CB	LEU	X	134	28.019	33.793	29.778	0.00	0.00
ATOM	2064	HB2	LEU	X	134	29.089	33.600	29.857	0.00	0.00
ATOM	2065	HB3	LEU	X	134	27.989	34.815	29.399	0.00	0.00
ATOM	2066	CG	LEU	X	134	27.347	33.627	31.099	0.00	0.00
ATOM	2067	HG	LEU	X	134	26.318	33.974	30.997	0.00	0.00
ATOM	2068	CD1	LEU	X	134	27.323	32.148	31.587	0.00	0.00
ATOM	2069	HD11	LEU	X	134	27.085	32.132	32.651	0.00	0.00
ATOM	2070	HD12	LEU	X	134	28.353	31.802	31.504	0.00	0.00
ATOM	2071	HD13	LEU	X	134	26.576	31.507	31.118	0.00	0.00
ATOM	2072	CD2	LEU	X	134	28.027	34.497	32.126	0.00	0.00
ATOM	2073	HD21	LEU	X	134	28.094	35.530	31.784	0.00	0.00
ATOM	2074	HD22	LEU	X	134	27.493	34.445	33.075	0.00	0.00
ATOM	2075	HD23	LEU	X	134	29.070	34.188	32.188	0.00	0.00
ATOM	2076	C	LEU	X	134	25.959	33.403	28.335	0.00	0.00
ATOM	2077	O	LEU	X	134	25.071	32.755	28.844	0.00	0.00
ATOM	2078	N	VAL	X	135	25.769	34.393	27.484	0.00	0.00
ATOM	2079	H	VAL	X	135	26.576	34.916	27.172	0.00	0.00
ATOM	2080	CA	VAL	X	135	24.465	35.039	27.145	0.00	0.00
ATOM	2081	HA	VAL	X	135	23.794	35.086	28.003	0.00	0.00

ATOM	2082	CB	VAL	X	135	24.702	36.517	26.498	0.00	0.00
ATOM	2083	HB	VAL	X	135	25.573	36.444	25.848	0.00	0.00
ATOM	2084	CG1	VAL	X	135	23.492	36.997	25.740	0.00	0.00
ATOM	2085	HG11	VAL	X	135	23.333	36.552	24.757	0.00	0.00
ATOM	2086	HG12	VAL	X	135	22.612	36.853	26.366	0.00	0.00
ATOM	2087	HG13	VAL	X	135	23.540	38.028	25.388	0.00	0.00
ATOM	2088	CG2	VAL	X	135	24.990	37.451	27.684	0.00	0.00
ATOM	2089	HG21	VAL	X	135	25.301	38.436	27.336	0.00	0.00
ATOM	2090	HG22	VAL	X	135	25.804	37.196	28.361	0.00	0.00
ATOM	2091	HG23	VAL	X	135	24.180	37.348	28.406	0.00	0.00
ATOM	2092	C	VAL	X	135	23.723	34.150	26.174	0.00	0.00
ATOM	2093	O	VAL	X	135	22.476	34.141	26.215	0.00	0.00
ATOM	2094	N	GLN	X	136	24.466	33.300	25.412	0.00	0.00
ATOM	2095	H	GLN	X	136	25.475	33.327	25.445	0.00	0.00
ATOM	2096	CA	GLN	X	136	23.942	32.245	24.495	0.00	0.00
ATOM	2097	HA	GLN	X	136	22.985	32.632	24.146	0.00	0.00
ATOM	2098	CB	GLN	X	136	24.872	32.028	23.306	0.00	0.00
ATOM	2099	HB2	GLN	X	136	24.892	33.029	22.875	0.00	0.00
ATOM	2100	HB3	GLN	X	136	25.877	31.745	23.617	0.00	0.00
ATOM	2101	CG	GLN	X	136	24.441	31.038	22.250	0.00	0.00
ATOM	2102	HG2	GLN	X	136	23.366	30.860	22.282	0.00	0.00
ATOM	2103	HG3	GLN	X	136	24.784	31.428	21.292	0.00	0.00
ATOM	2104	CD	GLN	X	136	25.085	29.632	22.372	0.00	0.00
ATOM	2105	OE1	GLN	X	136	26.095	29.318	21.716	0.00	0.00
ATOM	2106	NE2	GLN	X	136	24.669	28.685	23.261	0.00	0.00
ATOM	2107	HE21	GLN	X	136	25.222	27.840	23.255	0.00	0.00
ATOM	2108	HE22	GLN	X	136	23.930	28.927	23.905	0.00	0.00
ATOM	2109	C	GLN	X	136	23.606	30.869	25.211	0.00	0.00
ATOM	2110	O	GLN	X	136	22.759	30.180	24.695	0.00	0.00
ATOM	2111	N	ALA	X	137	24.236	30.623	26.336	0.00	0.00
ATOM	2112	H	ALA	X	137	24.823	31.354	26.711	0.00	0.00
ATOM	2113	CA	ALA	X	137	24.102	29.542	27.254	0.00	0.00
ATOM	2114	HA	ALA	X	137	23.974	28.615	26.696	0.00	0.00
ATOM	2115	CB	ALA	X	137	25.394	29.492	28.061	0.00	0.00
ATOM	2116	HB1	ALA	X	137	25.388	28.679	28.787	0.00	0.00
ATOM	2117	HB2	ALA	X	137	25.563	30.410	28.624	0.00	0.00
ATOM	2118	HB3	ALA	X	137	26.228	29.356	27.372	0.00	0.00
ATOM	2119	C	ALA	X	137	22.819	29.764	28.111	0.00	0.00
ATOM	2120	O	ALA	X	137	21.933	28.896	28.123	0.00	0.00
ATOM	2121	N	GLU	X	138	22.753	30.934	28.770	0.00	0.00
ATOM	2122	H	GLU	X	138	23.580	31.509	28.703	0.00	0.00
ATOM	2123	CA	GLU	X	138	21.837	31.105	29.854	0.00	0.00
ATOM	2124	HA	GLU	X	138	21.210	30.217	29.934	0.00	0.00
ATOM	2125	CB	GLU	X	138	22.697	31.120	31.179	0.00	0.00
ATOM	2126	HB2	GLU	X	138	23.311	32.013	31.060	0.00	0.00
ATOM	2127	HB3	GLU	X	138	21.980	31.259	31.988	0.00	0.00
ATOM	2128	CG	GLU	X	138	23.436	29.794	31.554	0.00	0.00
ATOM	2129	HG2	GLU	X	138	24.054	29.469	30.717	0.00	0.00
ATOM	2130	HG3	GLU	X	138	24.140	29.891	32.380	0.00	0.00
ATOM	2131	CD	GLU	X	138	22.502	28.686	31.786	0.00	0.00
ATOM	2132	OE1	GLU	X	138	21.624	28.788	32.658	0.00	0.00
ATOM	2133	OE2	GLU	X	138	22.576	27.747	30.985	0.00	0.00
ATOM	2134	C	GLU	X	138	20.963	32.398	29.867	0.00	0.00
ATOM	2135	O	GLU	X	138	20.044	32.535	30.691	0.00	0.00
ATOM	2136	N	ARG	X	139	21.266	33.468	29.092	0.00	0.00
ATOM	2137	H	ARG	X	139	22.154	33.486	28.610	0.00	0.00
ATOM	2138	CA	ARG	X	139	20.388	34.615	28.739	0.00	0.00
ATOM	2139	HA	ARG	X	139	21.001	35.168	28.027	0.00	0.00
ATOM	2140	CB	ARG	X	139	18.980	34.295	28.121	0.00	0.00
ATOM	2141	HB2	ARG	X	139	18.265	34.113	28.923	0.00	0.00
ATOM	2142	HB3	ARG	X	139	18.799	35.257	27.640	0.00	0.00
ATOM	2143	CG	ARG	X	139	18.961	33.266	27.054	0.00	0.00
ATOM	2144	HG2	ARG	X	139	19.452	33.765	26.220	0.00	0.00
ATOM	2145	HG3	ARG	X	139	19.549	32.358	27.189	0.00	0.00
ATOM	2146	CD	ARG	X	139	17.473	32.951	26.672	0.00	0.00
ATOM	2147	HD2	ARG	X	139	17.525	32.437	25.712	0.00	0.00
ATOM	2148	HD3	ARG	X	139	17.221	32.333	27.534	0.00	0.00

ATOM	2149	NE	ARG	X	139	16.612	34.112	26.566	0.00	0.00
ATOM	2150	HE	ARG	X	139	16.036	34.374	27.353	0.00	0.00
ATOM	2151	CZ	ARG	X	139	16.468	34.800	25.369	0.00	0.00
ATOM	2152	NH1	ARG	X	139	17.236	34.676	24.313	0.00	0.00
ATOM	2153	HH11	ARG	X	139	18.029	34.050	24.308	0.00	0.00
ATOM	2154	HH12	ARG	X	139	17.088	35.111	23.414	0.00	0.00
ATOM	2155	NH2	ARG	X	139	15.425	35.608	25.146	0.00	0.00
ATOM	2156	HH21	ARG	X	139	14.721	35.636	25.870	0.00	0.00
ATOM	2157	HH22	ARG	X	139	15.284	35.946	24.205	0.00	0.00
ATOM	2158	C	ARG	X	139	20.273	35.687	29.829	0.00	0.00
ATOM	2159	O	ARG	X	139	19.609	36.754	29.704	0.00	0.00
ATOM	2160	N	THR	X	140	20.931	35.351	30.961	0.00	0.00
ATOM	2161	H	THR	X	140	21.187	34.378	31.055	0.00	0.00
ATOM	2162	CA	THR	X	140	21.309	36.190	32.112	0.00	0.00
ATOM	2163	HA	THR	X	140	20.394	36.602	32.536	0.00	0.00
ATOM	2164	CB	THR	X	140	22.037	35.464	33.270	0.00	0.00
ATOM	2165	HB	THR	X	140	22.432	36.190	33.981	0.00	0.00
ATOM	2166	CG2	THR	X	140	21.227	34.314	33.876	0.00	0.00
ATOM	2167	HG21	THR	X	140	21.036	33.484	33.196	0.00	0.00
ATOM	2168	HG22	THR	X	140	20.307	34.823	34.163	0.00	0.00
ATOM	2169	HG23	THR	X	140	21.785	33.963	34.744	0.00	0.00
ATOM	2170	OG1	THR	X	140	23.196	34.946	32.653	0.00	0.00
ATOM	2171	HG1	THR	X	140	23.556	35.761	32.296	0.00	0.00
ATOM	2172	C	THR	X	140	22.075	37.424	31.642	0.00	0.00
ATOM	2173	O	THR	X	140	23.267	37.302	31.381	0.00	0.00
ATOM	2174	N	VAL	X	141	21.478	38.596	31.639	0.00	0.00
ATOM	2175	H	VAL	X	141	20.588	38.737	32.093	0.00	0.00
ATOM	2176	CA	VAL	X	141	22.050	39.767	30.965	0.00	0.00
ATOM	2177	HA	VAL	X	141	22.263	39.332	29.989	0.00	0.00
ATOM	2178	CB	VAL	X	141	20.938	40.906	30.826	0.00	0.00
ATOM	2179	HB	VAL	X	141	20.425	41.213	31.738	0.00	0.00
ATOM	2180	CG1	VAL	X	141	21.517	42.094	30.135	0.00	0.00
ATOM	2181	HG11	VAL	X	141	20.708	42.821	30.073	0.00	0.00
ATOM	2182	HG12	VAL	X	141	22.388	42.414	30.708	0.00	0.00
ATOM	2183	HG13	VAL	X	141	21.837	41.759	29.149	0.00	0.00
ATOM	2184	CG2	VAL	X	141	19.801	40.290	29.992	0.00	0.00
ATOM	2185	HG21	VAL	X	141	19.351	39.426	30.480	0.00	0.00
ATOM	2186	HG22	VAL	X	141	20.199	39.839	29.083	0.00	0.00
ATOM	2187	HG23	VAL	X	141	19.176	41.088	29.590	0.00	0.00
ATOM	2188	C	VAL	X	141	23.392	40.336	31.516	0.00	0.00
ATOM	2189	O	VAL	X	141	23.482	40.750	32.668	0.00	0.00
ATOM	2190	N	LEU	X	142	24.500	40.181	30.774	0.00	0.00
ATOM	2191	H	LEU	X	142	24.362	40.262	29.777	0.00	0.00
ATOM	2192	CA	LEU	X	142	25.899	40.479	31.124	0.00	0.00
ATOM	2193	HA	LEU	X	142	26.058	40.422	32.201	0.00	0.00
ATOM	2194	CB	LEU	X	142	26.879	39.445	30.495	0.00	0.00
ATOM	2195	HB2	LEU	X	142	26.597	38.440	30.808	0.00	0.00
ATOM	2196	HB3	LEU	X	142	26.906	39.504	29.407	0.00	0.00
ATOM	2197	CG	LEU	X	142	28.280	39.450	31.033	0.00	0.00
ATOM	2198	HG	LEU	X	142	28.683	38.551	30.567	0.00	0.00
ATOM	2199	CD1	LEU	X	142	29.237	40.560	30.542	0.00	0.00
ATOM	2200	HD11	LEU	X	142	29.018	41.453	31.128	0.00	0.00
ATOM	2201	HD12	LEU	X	142	29.181	40.629	29.456	0.00	0.00
ATOM	2202	HD13	LEU	X	142	30.223	40.182	30.815	0.00	0.00
ATOM	2203	CD2	LEU	X	142	28.415	39.290	32.514	0.00	0.00
ATOM	2204	HD21	LEU	X	142	29.464	39.311	32.806	0.00	0.00
ATOM	2205	HD22	LEU	X	142	27.913	40.017	33.152	0.00	0.00
ATOM	2206	HD23	LEU	X	142	27.980	38.367	32.897	0.00	0.00
ATOM	2207	C	LEU	X	142	26.333	41.954	30.803	0.00	0.00
ATOM	2208	O	LEU	X	142	26.587	42.337	29.674	0.00	0.00
ATOM	2209	N	VAL	X	143	26.357	42.771	31.830	0.00	0.00
ATOM	2210	H	VAL	X	143	26.118	42.381	32.730	0.00	0.00
ATOM	2211	CA	VAL	X	143	26.919	44.129	31.845	0.00	0.00
ATOM	2212	HA	VAL	X	143	26.694	44.587	30.882	0.00	0.00
ATOM	2213	CB	VAL	X	143	26.108	45.036	32.784	0.00	0.00
ATOM	2214	HB	VAL	X	143	26.064	44.466	33.712	0.00	0.00
ATOM	2215	CG1	VAL	X	143	26.801	46.410	33.043	0.00	0.00

ATOM	2216	HG11	VAL	X	143	26.242	46.998	33.770	0.00	0.00
ATOM	2217	HG12	VAL	X	143	27.768	46.164	33.482	0.00	0.00
ATOM	2218	HG13	VAL	X	143	26.915	46.987	32.125	0.00	0.00
ATOM	2219	CG2	VAL	X	143	24.658	45.226	32.471	0.00	0.00
ATOM	2220	HG21	VAL	X	143	24.147	45.733	33.289	0.00	0.00
ATOM	2221	HG22	VAL	X	143	24.115	44.288	32.357	0.00	0.00
ATOM	2222	HG23	VAL	X	143	24.459	45.888	31.628	0.00	0.00
ATOM	2223	C	VAL	X	143	28.327	44.153	32.205	0.00	0.00
ATOM	2224	O	VAL	X	143	28.856	43.392	33.066	0.00	0.00
ATOM	2225	N	SER	X	144	29.158	44.998	31.602	0.00	0.00
ATOM	2226	H	SER	X	144	28.726	45.700	31.018	0.00	0.00
ATOM	2227	CA	SER	X	144	30.601	45.264	31.903	0.00	0.00
ATOM	2228	HA	SER	X	144	30.798	44.724	32.830	0.00	0.00
ATOM	2229	CB	SER	X	144	31.381	44.638	30.772	0.00	0.00
ATOM	2230	HB2	SER	X	144	31.053	43.614	30.595	0.00	0.00
ATOM	2231	HB3	SER	X	144	31.323	45.196	29.838	0.00	0.00
ATOM	2232	OG	SER	X	144	32.703	44.382	31.060	0.00	0.00
ATOM	2233	HG	SER	X	144	32.875	43.573	30.572	0.00	0.00
ATOM	2234	C	SER	X	144	30.884	46.753	32.126	0.00	0.00
ATOM	2235	O	SER	X	144	30.509	47.565	31.226	0.00	0.00
ATOM	2236	N	MET	X	145	31.518	47.131	33.245	0.00	0.00
ATOM	2237	H	MET	X	145	31.666	46.380	33.904	0.00	0.00
ATOM	2238	CA	MET	X	145	31.691	48.605	33.521	0.00	0.00
ATOM	2239	HA	MET	X	145	31.379	49.181	32.650	0.00	0.00
ATOM	2240	CB	MET	X	145	30.769	48.984	34.698	0.00	0.00
ATOM	2241	HB2	MET	X	145	30.956	50.058	34.708	0.00	0.00
ATOM	2242	HB3	MET	X	145	29.721	48.813	34.453	0.00	0.00
ATOM	2243	CG	MET	X	145	31.249	48.282	36.049	0.00	0.00
ATOM	2244	HG2	MET	X	145	30.889	47.259	35.941	0.00	0.00
ATOM	2245	HG3	MET	X	145	32.337	48.230	36.087	0.00	0.00
ATOM	2246	SD	MET	X	145	30.573	48.966	37.596	0.00	0.00
ATOM	2247	CE	MET	X	145	28.783	48.900	37.509	0.00	0.00
ATOM	2248	HE1	MET	X	145	28.313	47.936	37.316	0.00	0.00
ATOM	2249	HE2	MET	X	145	28.450	49.323	38.457	0.00	0.00
ATOM	2250	HE3	MET	X	145	28.466	49.496	36.654	0.00	0.00
ATOM	2251	C	MET	X	145	33.094	49.127	33.807	0.00	0.00
ATOM	2252	O	MET	X	145	33.887	48.284	34.113	0.00	0.00
ATOM	2253	N	ASN	X	146	33.424	50.431	33.685	0.00	0.00
ATOM	2254	H	ASN	X	146	32.742	51.106	33.370	0.00	0.00
ATOM	2255	CA	ASN	X	146	34.753	51.039	33.729	0.00	0.00
ATOM	2256	HA	ASN	X	146	35.532	50.394	34.136	0.00	0.00
ATOM	2257	CB	ASN	X	146	35.095	51.408	32.292	0.00	0.00
ATOM	2258	HB2	ASN	X	146	34.600	50.795	31.539	0.00	0.00
ATOM	2259	HB3	ASN	X	146	34.818	52.456	32.178	0.00	0.00
ATOM	2260	CG	ASN	X	146	36.615	51.345	32.030	0.00	0.00
ATOM	2261	OD1	ASN	X	146	37.138	50.249	31.997	0.00	0.00
ATOM	2262	ND2	ASN	X	146	37.273	52.442	32.086	0.00	0.00
ATOM	2263	HD21	ASN	X	146	38.281	52.415	32.031	0.00	0.00
ATOM	2264	HD22	ASN	X	146	36.854	53.356	32.189	0.00	0.00
ATOM	2265	C	ASN	X	146	34.811	52.273	34.664	0.00	0.00
ATOM	2266	O	ASN	X	146	33.918	53.099	34.746	0.00	0.00
ATOM	2267	N	TYR	X	147	35.904	52.355	35.352	0.00	0.00
ATOM	2268	H	TYR	X	147	36.639	51.717	35.082	0.00	0.00
ATOM	2269	CA	TYR	X	147	36.081	53.254	36.596	0.00	0.00
ATOM	2270	HA	TYR	X	147	35.616	54.196	36.306	0.00	0.00
ATOM	2271	CB	TYR	X	147	35.417	52.617	37.804	0.00	0.00
ATOM	2272	HB2	TYR	X	147	35.705	53.131	38.720	0.00	0.00
ATOM	2273	HB3	TYR	X	147	34.346	52.746	37.646	0.00	0.00
ATOM	2274	CG	TYR	X	147	35.667	51.183	38.058	0.00	0.00
ATOM	2275	CD1	TYR	X	147	34.803	50.216	37.500	0.00	0.00
ATOM	2276	HD1	TYR	X	147	34.011	50.680	36.932	0.00	0.00
ATOM	2277	CE1	TYR	X	147	35.111	48.894	37.584	0.00	0.00
ATOM	2278	HE1	TYR	X	147	34.397	48.138	37.292	0.00	0.00
ATOM	2279	CZ	TYR	X	147	36.295	48.390	38.196	0.00	0.00
ATOM	2280	OH	TYR	X	147	36.400	47.043	38.413	0.00	0.00
ATOM	2281	HH	TYR	X	147	37.280	46.842	38.737	0.00	0.00
ATOM	2282	CE2	TYR	X	147	37.158	49.390	38.738	0.00	0.00

ATOM	2283	HE2	TYR	X	147	38.071	49.081	39.225	0.00	0.00
ATOM	2284	CD2	TYR	X	147	36.848	50.757	38.638	0.00	0.00
ATOM	2285	HD2	TYR	X	147	37.510	51.467	39.112	0.00	0.00
ATOM	2286	C	TYR	X	147	37.586	53.565	36.904	0.00	0.00
ATOM	2287	O	TYR	X	147	38.447	52.783	36.625	0.00	0.00
ATOM	2288	N	ARG	X	148	37.819	54.631	37.590	0.00	0.00
ATOM	2289	H	ARG	X	148	37.037	55.220	37.839	0.00	0.00
ATOM	2290	CA	ARG	X	148	39.139	55.246	37.899	0.00	0.00
ATOM	2291	HA	ARG	X	148	39.739	55.283	36.989	0.00	0.00
ATOM	2292	CB	ARG	X	148	38.863	56.662	38.421	0.00	0.00
ATOM	2293	HB2	ARG	X	148	37.975	56.625	39.053	0.00	0.00
ATOM	2294	HB3	ARG	X	148	39.739	57.068	38.928	0.00	0.00
ATOM	2295	CG	ARG	X	148	38.714	57.566	37.250	0.00	0.00
ATOM	2296	HG2	ARG	X	148	39.569	57.680	36.583	0.00	0.00
ATOM	2297	HG3	ARG	X	148	37.805	57.294	36.715	0.00	0.00
ATOM	2298	CD	ARG	X	148	38.420	58.992	37.827	0.00	0.00
ATOM	2299	HD2	ARG	X	148	39.240	59.329	38.461	0.00	0.00
ATOM	2300	HD3	ARG	X	148	38.337	59.555	36.897	0.00	0.00
ATOM	2301	NE	ARG	X	148	37.125	59.041	38.466	0.00	0.00
ATOM	2302	HE	ARG	X	148	36.441	58.326	38.265	0.00	0.00
ATOM	2303	CZ	ARG	X	148	36.826	60.070	39.308	0.00	0.00
ATOM	2304	NH1	ARG	X	148	37.641	61.042	39.726	0.00	0.00
ATOM	2305	HH11	ARG	X	148	38.635	60.968	39.567	0.00	0.00
ATOM	2306	HH12	ARG	X	148	37.287	61.802	40.289	0.00	0.00
ATOM	2307	NH2	ARG	X	148	35.570	60.200	39.728	0.00	0.00
ATOM	2308	HH21	ARG	X	148	35.016	59.367	39.589	0.00	0.00
ATOM	2309	HH22	ARG	X	148	35.160	60.940	40.280	0.00	0.00
ATOM	2310	C	ARG	X	148	40.005	54.472	38.906	0.00	0.00
ATOM	2311	O	ARG	X	148	40.219	54.829	40.094	0.00	0.00
ATOM	2312	N	VAL	X	149	40.725	53.518	38.258	0.00	0.00
ATOM	2313	H	VAL	X	149	40.454	53.232	37.328	0.00	0.00
ATOM	2314	CA	VAL	X	149	41.865	52.707	38.813	0.00	0.00
ATOM	2315	HA	VAL	X	149	41.455	52.537	39.808	0.00	0.00
ATOM	2316	CB	VAL	X	149	42.246	51.533	37.956	0.00	0.00
ATOM	2317	HB	VAL	X	149	43.122	51.015	38.345	0.00	0.00
ATOM	2318	CG1	VAL	X	149	41.054	50.530	37.921	0.00	0.00
ATOM	2319	HG11	VAL	X	149	40.911	50.147	38.932	0.00	0.00
ATOM	2320	HG12	VAL	X	149	40.204	51.057	37.488	0.00	0.00
ATOM	2321	HG13	VAL	X	149	41.387	49.740	37.249	0.00	0.00
ATOM	2322	CG2	VAL	X	149	42.577	51.863	36.492	0.00	0.00
ATOM	2323	HG21	VAL	X	149	43.369	52.610	36.438	0.00	0.00
ATOM	2324	HG22	VAL	X	149	41.627	52.168	36.051	0.00	0.00
ATOM	2325	HG23	VAL	X	149	42.793	50.974	35.899	0.00	0.00
ATOM	2326	C	VAL	X	149	43.127	53.600	39.037	0.00	0.00
ATOM	2327	O	VAL	X	149	43.127	54.697	38.608	0.00	0.00
ATOM	2328	N	GLY	X	150	44.111	53.086	39.736	0.00	0.00
ATOM	2329	H	GLY	X	150	44.137	52.151	40.118	0.00	0.00
ATOM	2330	CA	GLY	X	150	45.285	53.897	40.130	0.00	0.00
ATOM	2331	HA2	GLY	X	150	45.880	53.366	40.874	0.00	0.00
ATOM	2332	HA3	GLY	X	150	45.815	54.184	39.222	0.00	0.00
ATOM	2333	C	GLY	X	150	44.945	55.226	40.812	0.00	0.00
ATOM	2334	O	GLY	X	150	43.891	55.408	41.467	0.00	0.00
ATOM	2335	N	ALA	X	151	45.926	56.142	40.624	0.00	0.00
ATOM	2336	H	ALA	X	151	46.739	55.817	40.121	0.00	0.00
ATOM	2337	CA	ALA	X	151	45.845	57.455	41.241	0.00	0.00
ATOM	2338	HA	ALA	X	151	45.999	57.303	42.309	0.00	0.00
ATOM	2339	CB	ALA	X	151	46.987	58.339	40.733	0.00	0.00
ATOM	2340	HB1	ALA	X	151	46.812	59.389	40.965	0.00	0.00
ATOM	2341	HB2	ALA	X	151	47.099	58.195	39.658	0.00	0.00
ATOM	2342	HB3	ALA	X	151	47.857	57.968	41.276	0.00	0.00
ATOM	2343	C	ALA	X	151	44.476	58.121	40.916	0.00	0.00
ATOM	2344	O	ALA	X	151	44.036	58.862	41.731	0.00	0.00
ATOM	2345	N	PHE	X	152	43.855	57.926	39.754	0.00	0.00
ATOM	2346	H	PHE	X	152	44.204	57.213	39.131	0.00	0.00
ATOM	2347	CA	PHE	X	152	42.811	58.844	39.264	0.00	0.00
ATOM	2348	HA	PHE	X	152	43.242	59.840	39.369	0.00	0.00
ATOM	2349	CB	PHE	X	152	42.525	58.643	37.770	0.00	0.00

ATOM	2350	HB2	PHE	X	152	42.072	57.656	37.683	0.00	0.00
ATOM	2351	HB3	PHE	X	152	41.752	59.282	37.343	0.00	0.00
ATOM	2352	CG	PHE	X	152	43.812	58.662	36.862	0.00	0.00
ATOM	2353	CD1	PHE	X	152	44.743	57.611	36.971	0.00	0.00
ATOM	2354	HD1	PHE	X	152	44.539	56.726	37.556	0.00	0.00
ATOM	2355	CE1	PHE	X	152	46.058	57.743	36.439	0.00	0.00
ATOM	2356	HE1	PHE	X	152	46.824	57.041	36.737	0.00	0.00
ATOM	2357	CZ	PHE	X	152	46.367	58.880	35.638	0.00	0.00
ATOM	2358	HZ	PHE	X	152	47.274	58.937	35.055	0.00	0.00
ATOM	2359	CE2	PHE	X	152	45.400	59.894	35.489	0.00	0.00
ATOM	2360	HE2	PHE	X	152	45.642	60.794	34.943	0.00	0.00
ATOM	2361	CD2	PHE	X	152	44.094	59.778	36.047	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.364	60.555	35.869	0.00	0.00
ATOM	2363	C	PHE	X	152	41.574	58.869	40.172	0.00	0.00
ATOM	2364	O	PHE	X	152	40.795	59.819	40.126	0.00	0.00
ATOM	2365	N	GLY	X	153	41.275	57.795	40.891	0.00	0.00
ATOM	2366	H	GLY	X	153	41.799	56.953	40.695	0.00	0.00
ATOM	2367	CA	GLY	X	153	40.227	57.743	41.850	0.00	0.00
ATOM	2368	HA2	GLY	X	153	39.947	58.774	42.068	0.00	0.00
ATOM	2369	HA3	GLY	X	153	39.349	57.242	41.442	0.00	0.00
ATOM	2370	C	GLY	X	153	40.561	57.136	43.208	0.00	0.00
ATOM	2371	O	GLY	X	153	39.739	57.260	44.181	0.00	0.00
ATOM	2372	N	PHE	X	154	41.719	56.489	43.329	0.00	0.00
ATOM	2373	H	PHE	X	154	42.240	56.137	42.538	0.00	0.00
ATOM	2374	CA	PHE	X	154	42.198	56.061	44.585	0.00	0.00
ATOM	2375	HA	PHE	X	154	41.367	56.084	45.291	0.00	0.00
ATOM	2376	CB	PHE	X	154	42.506	54.538	44.340	0.00	0.00
ATOM	2377	HB2	PHE	X	154	43.168	54.414	43.483	0.00	0.00
ATOM	2378	HB3	PHE	X	154	42.923	54.160	45.274	0.00	0.00
ATOM	2379	CG	PHE	X	154	41.281	53.723	44.034	0.00	0.00
ATOM	2380	CD1	PHE	X	154	41.146	53.124	42.735	0.00	0.00
ATOM	2381	HD1	PHE	X	154	41.913	53.303	41.996	0.00	0.00
ATOM	2382	CE1	PHE	X	154	39.996	52.390	42.431	0.00	0.00
ATOM	2383	HE1	PHE	X	154	39.835	51.866	41.501	0.00	0.00
ATOM	2384	CZ	PHE	X	154	38.961	52.214	43.365	0.00	0.00
ATOM	2385	HZ	PHE	X	154	38.156	51.528	43.146	0.00	0.00
ATOM	2386	CE2	PHE	X	154	39.048	52.808	44.620	0.00	0.00
ATOM	2387	HE2	PHE	X	154	38.312	52.669	45.397	0.00	0.00
ATOM	2388	CD2	PHE	X	154	40.212	53.522	44.926	0.00	0.00
ATOM	2389	HD2	PHE	X	154	40.401	53.920	45.912	0.00	0.00
ATOM	2390	C	PHE	X	154	43.375	56.799	45.196	0.00	0.00
ATOM	2391	O	PHE	X	154	43.740	56.500	46.362	0.00	0.00
ATOM	2392	N	LEU	X	155	43.884	57.902	44.574	0.00	0.00
ATOM	2393	H	LEU	X	155	43.727	57.967	43.578	0.00	0.00
ATOM	2394	CA	LEU	X	155	44.727	58.860	45.261	0.00	0.00
ATOM	2395	HA	LEU	X	155	45.458	58.241	45.781	0.00	0.00
ATOM	2396	CB	LEU	X	155	45.438	59.798	44.179	0.00	0.00
ATOM	2397	HB2	LEU	X	155	45.842	59.199	43.363	0.00	0.00
ATOM	2398	HB3	LEU	X	155	44.682	60.450	43.741	0.00	0.00
ATOM	2399	CG	LEU	X	155	46.693	60.443	44.735	0.00	0.00
ATOM	2400	HG	LEU	X	155	47.182	59.816	45.480	0.00	0.00
ATOM	2401	CD1	LEU	X	155	47.711	60.626	43.541	0.00	0.00
ATOM	2402	HD11	LEU	X	155	47.294	61.320	42.810	0.00	0.00
ATOM	2403	HD12	LEU	X	155	47.969	59.683	43.060	0.00	0.00
ATOM	2404	HD13	LEU	X	155	48.661	60.963	43.956	0.00	0.00
ATOM	2405	CD2	LEU	X	155	46.361	61.759	45.368	0.00	0.00
ATOM	2406	HD21	LEU	X	155	45.557	62.355	44.937	0.00	0.00
ATOM	2407	HD22	LEU	X	155	46.136	61.677	46.432	0.00	0.00
ATOM	2408	HD23	LEU	X	155	47.297	62.314	45.306	0.00	0.00
ATOM	2409	C	LEU	X	155	43.920	59.742	46.222	0.00	0.00
ATOM	2410	O	LEU	X	155	42.904	60.364	45.856	0.00	0.00
ATOM	2411	N	ALA	X	156	44.357	59.775	47.449	0.00	0.00
ATOM	2412	H	ALA	X	156	45.247	59.327	47.618	0.00	0.00
ATOM	2413	CA	ALA	X	156	43.614	60.408	48.598	0.00	0.00
ATOM	2414	HA	ALA	X	156	42.928	61.150	48.189	0.00	0.00
ATOM	2415	CB	ALA	X	156	42.948	59.360	49.384	0.00	0.00
ATOM	2416	HB1	ALA	X	156	42.490	58.641	48.705	0.00	0.00

ATOM	2417	HB2	ALA	X	156	42.257	59.690	50.159	0.00	0.00
ATOM	2418	HB3	ALA	X	156	43.737	58.696	49.738	0.00	0.00
ATOM	2419	C	ALA	X	156	44.607	61.170	49.469	0.00	0.00
ATOM	2420	O	ALA	X	156	45.694	60.646	49.713	0.00	0.00
ATOM	2421	N	LEU	X	157	44.310	62.405	49.849	0.00	0.00
ATOM	2422	H	LEU	X	157	43.464	62.826	49.492	0.00	0.00
ATOM	2423	CA	LEU	X	157	45.040	63.297	50.778	0.00	0.00
ATOM	2424	HA	LEU	X	157	45.892	62.690	51.083	0.00	0.00
ATOM	2425	CB	LEU	X	157	45.536	64.495	50.030	0.00	0.00
ATOM	2426	HB2	LEU	X	157	45.668	64.294	48.967	0.00	0.00
ATOM	2427	HB3	LEU	X	157	44.673	65.161	50.015	0.00	0.00
ATOM	2428	CG	LEU	X	157	46.666	65.267	50.679	0.00	0.00
ATOM	2429	HG	LEU	X	157	46.442	65.441	51.731	0.00	0.00
ATOM	2430	CD1	LEU	X	157	48.059	64.579	50.509	0.00	0.00
ATOM	2431	HD11	LEU	X	157	48.531	64.554	49.527	0.00	0.00
ATOM	2432	HD12	LEU	X	157	48.018	63.556	50.882	0.00	0.00
ATOM	2433	HD13	LEU	X	157	48.715	65.148	51.169	0.00	0.00
ATOM	2434	CD2	LEU	X	157	46.830	66.656	49.938	0.00	0.00
ATOM	2435	HD21	LEU	X	157	47.419	67.297	50.595	0.00	0.00
ATOM	2436	HD22	LEU	X	157	47.361	66.569	48.990	0.00	0.00
ATOM	2437	HD23	LEU	X	157	45.860	67.148	49.875	0.00	0.00
ATOM	2438	C	LEU	X	157	44.027	63.568	51.928	0.00	0.00
ATOM	2439	O	LEU	X	157	43.540	64.697	52.066	0.00	0.00
ATOM	2440	N	PRO	X	158	43.724	62.609	52.821	0.00	0.00
ATOM	2441	CD	PRO	X	158	44.263	61.270	52.908	0.00	0.00
ATOM	2442	HD2	PRO	X	158	45.349	61.174	52.882	0.00	0.00
ATOM	2443	HD3	PRO	X	158	43.902	60.701	52.051	0.00	0.00
ATOM	2444	CG	PRO	X	158	43.683	60.642	54.197	0.00	0.00
ATOM	2445	HG2	PRO	X	158	44.270	60.870	55.086	0.00	0.00
ATOM	2446	HG3	PRO	X	158	43.494	59.574	54.089	0.00	0.00
ATOM	2447	CB	PRO	X	158	42.273	61.320	54.314	0.00	0.00
ATOM	2448	HB2	PRO	X	158	41.792	61.293	55.291	0.00	0.00
ATOM	2449	HB3	PRO	X	158	41.493	60.909	53.674	0.00	0.00
ATOM	2450	CA	PRO	X	158	42.614	62.706	53.840	0.00	0.00
ATOM	2451	HA	PRO	X	158	41.789	63.113	53.254	0.00	0.00
ATOM	2452	C	PRO	X	158	42.886	63.675	54.989	0.00	0.00
ATOM	2453	O	PRO	X	158	43.970	63.774	55.590	0.00	0.00
ATOM	2454	N	GLY	X	159	41.847	64.468	55.243	0.00	0.00
ATOM	2455	H	GLY	X	159	40.920	64.244	54.911	0.00	0.00
ATOM	2456	CA	GLY	X	159	41.904	65.713	55.936	0.00	0.00
ATOM	2457	HA2	GLY	X	159	41.133	65.830	56.698	0.00	0.00
ATOM	2458	HA3	GLY	X	159	42.902	65.813	56.361	0.00	0.00
ATOM	2459	C	GLY	X	159	41.898	66.894	55.027	0.00	0.00
ATOM	2460	O	GLY	X	159	41.507	67.966	55.484	0.00	0.00
ATOM	2461	N	SER	X	160	42.227	66.859	53.726	0.00	0.00
ATOM	2462	H	SER	X	160	42.662	66.024	53.360	0.00	0.00
ATOM	2463	CA	SER	X	160	42.124	67.980	52.704	0.00	0.00
ATOM	2464	HA	SER	X	160	42.661	68.847	53.090	0.00	0.00
ATOM	2465	CB	SER	X	160	42.950	67.621	51.438	0.00	0.00
ATOM	2466	HB2	SER	X	160	43.212	68.495	50.842	0.00	0.00
ATOM	2467	HB3	SER	X	160	43.911	67.222	51.763	0.00	0.00
ATOM	2468	OG	SER	X	160	42.343	66.672	50.640	0.00	0.00
ATOM	2469	HG	SER	X	160	42.722	65.833	50.911	0.00	0.00
ATOM	2470	C	SER	X	160	40.645	68.349	52.307	0.00	0.00
ATOM	2471	O	SER	X	160	39.695	67.721	52.807	0.00	0.00
ATOM	2472	N	ARG	X	161	40.426	69.378	51.447	0.00	0.00
ATOM	2473	H	ARG	X	161	41.252	69.792	51.039	0.00	0.00
ATOM	2474	CA	ARG	X	161	39.153	69.659	50.691	0.00	0.00
ATOM	2475	HA	ARG	X	161	38.391	68.995	51.100	0.00	0.00
ATOM	2476	CB	ARG	X	161	38.655	71.100	50.824	0.00	0.00
ATOM	2477	HB2	ARG	X	161	39.579	71.660	50.675	0.00	0.00
ATOM	2478	HB3	ARG	X	161	37.928	71.263	50.029	0.00	0.00
ATOM	2479	CG	ARG	X	161	37.979	71.576	52.075	0.00	0.00
ATOM	2480	HG2	ARG	X	161	37.609	72.599	52.133	0.00	0.00
ATOM	2481	HG3	ARG	X	161	37.124	70.918	52.234	0.00	0.00
ATOM	2482	CD	ARG	X	161	38.720	71.498	53.486	0.00	0.00
ATOM	2483	HD2	ARG	X	161	38.043	71.906	54.238	0.00	0.00

ATOM	2484	HD3	ARG	X	161	38.705	70.466	53.834	0.00	0.00
ATOM	2485	NE	ARG	X	161	40.018	72.208	53.389	0.00	0.00
ATOM	2486	HE	ARG	X	161	40.757	71.722	52.902	0.00	0.00
ATOM	2487	CZ	ARG	X	161	40.220	73.329	54.034	0.00	0.00
ATOM	2488	NH1	ARG	X	161	39.295	73.976	54.693	0.00	0.00
ATOM	2489	HH11	ARG	X	161	38.303	73.802	54.610	0.00	0.00
ATOM	2490	HH12	ARG	X	161	39.507	74.906	55.022	0.00	0.00
ATOM	2491	NH2	ARG	X	161	41.378	73.917	54.011	0.00	0.00
ATOM	2492	HH21	ARG	X	161	42.234	73.443	53.760	0.00	0.00
ATOM	2493	HH22	ARG	X	161	41.468	74.825	54.445	0.00	0.00
ATOM	2494	C	ARG	X	161	39.357	69.234	49.140	0.00	0.00
ATOM	2495	O	ARG	X	161	38.453	69.258	48.326	0.00	0.00
ATOM	2496	N	GLU	X	162	40.528	68.844	48.731	0.00	0.00
ATOM	2497	H	GLU	X	162	41.282	68.929	49.398	0.00	0.00
ATOM	2498	CA	GLU	X	162	40.980	68.571	47.382	0.00	0.00
ATOM	2499	HA	GLU	X	162	40.430	69.225	46.706	0.00	0.00
ATOM	2500	CB	GLU	X	162	42.468	69.040	47.295	0.00	0.00
ATOM	2501	HB2	GLU	X	162	42.980	68.693	48.192	0.00	0.00
ATOM	2502	HB3	GLU	X	162	42.918	68.568	46.422	0.00	0.00
ATOM	2503	CG	GLU	X	162	42.667	70.592	47.176	0.00	0.00
ATOM	2504	HG2	GLU	X	162	43.690	70.753	46.835	0.00	0.00
ATOM	2505	HG3	GLU	X	162	42.030	71.030	46.408	0.00	0.00
ATOM	2506	CD	GLU	X	162	42.459	71.318	48.475	0.00	0.00
ATOM	2507	OE1	GLU	X	162	42.505	72.581	48.513	0.00	0.00
ATOM	2508	OE2	GLU	X	162	42.435	70.740	49.606	0.00	0.00
ATOM	2509	C	GLU	X	162	40.830	67.075	46.934	0.00	0.00
ATOM	2510	O	GLU	X	162	40.734	66.802	45.733	0.00	0.00
ATOM	2511	N	ALA	X	163	40.935	66.122	47.903	0.00	0.00
ATOM	2512	H	ALA	X	163	40.952	66.524	48.829	0.00	0.00
ATOM	2513	CA	ALA	X	163	40.838	64.683	47.570	0.00	0.00
ATOM	2514	HA	ALA	X	163	40.183	64.525	46.714	0.00	0.00
ATOM	2515	CB	ALA	X	163	42.263	64.252	47.087	0.00	0.00
ATOM	2516	HB1	ALA	X	163	42.376	64.580	46.054	0.00	0.00
ATOM	2517	HB2	ALA	X	163	42.309	63.166	47.177	0.00	0.00
ATOM	2518	HB3	ALA	X	163	43.134	64.630	47.621	0.00	0.00
ATOM	2519	C	ALA	X	163	40.413	63.915	48.810	0.00	0.00
ATOM	2520	O	ALA	X	163	41.339	63.673	49.679	0.00	0.00
ATOM	2521	N	PRO	X	164	39.157	63.380	48.861	0.00	0.00
ATOM	2522	CD	PRO	X	164	38.024	63.683	47.950	0.00	0.00
ATOM	2523	HD2	PRO	X	164	38.378	63.367	46.969	0.00	0.00
ATOM	2524	HD3	PRO	X	164	37.712	64.725	47.867	0.00	0.00
ATOM	2525	CG	PRO	X	164	36.881	62.804	48.448	0.00	0.00
ATOM	2526	HG2	PRO	X	164	36.862	61.813	47.992	0.00	0.00
ATOM	2527	HG3	PRO	X	164	35.989	63.406	48.276	0.00	0.00
ATOM	2528	CB	PRO	X	164	37.252	62.588	49.916	0.00	0.00
ATOM	2529	HB2	PRO	X	164	36.648	61.837	50.424	0.00	0.00
ATOM	2530	HB3	PRO	X	164	37.054	63.489	50.497	0.00	0.00
ATOM	2531	CA	PRO	X	164	38.774	62.504	49.934	0.00	0.00
ATOM	2532	HA	PRO	X	164	39.113	63.072	50.800	0.00	0.00
ATOM	2533	C	PRO	X	164	39.390	61.112	49.816	0.00	0.00
ATOM	2534	O	PRO	X	164	39.818	60.582	50.871	0.00	0.00
ATOM	2535	N	GLY	X	165	39.361	60.539	48.557	0.00	0.00
ATOM	2536	H	GLY	X	165	38.947	61.120	47.842	0.00	0.00
ATOM	2537	CA	GLY	X	165	39.827	59.226	48.163	0.00	0.00
ATOM	2538	HA2	GLY	X	165	40.382	59.329	47.231	0.00	0.00
ATOM	2539	HA3	GLY	X	165	40.324	58.625	48.925	0.00	0.00
ATOM	2540	C	GLY	X	165	38.587	58.443	47.703	0.00	0.00
ATOM	2541	O	GLY	X	165	37.467	58.948	47.734	0.00	0.00
ATOM	2542	N	ASN	X	166	38.821	57.283	47.157	0.00	0.00
ATOM	2543	H	ASN	X	166	39.785	57.063	46.953	0.00	0.00
ATOM	2544	CA	ASN	X	166	37.788	56.233	46.894	0.00	0.00
ATOM	2545	HA	ASN	X	166	38.195	55.256	46.633	0.00	0.00
ATOM	2546	CB	ASN	X	166	36.939	55.943	48.137	0.00	0.00
ATOM	2547	HB2	ASN	X	166	36.522	56.871	48.526	0.00	0.00
ATOM	2548	HB3	ASN	X	166	36.148	55.260	47.828	0.00	0.00
ATOM	2549	CG	ASN	X	166	37.853	55.327	49.185	0.00	0.00
ATOM	2550	OD1	ASN	X	166	38.596	54.380	48.924	0.00	0.00

ATOM	2551	ND2	ASN	X	166	37.753	55.899	50.359	0.00	0.00
ATOM	2552	HD21	ASN	X	166	38.177	55.529	51.198	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.156	56.704	50.486	0.00	0.00
ATOM	2554	C	ASN	X	166	36.901	56.496	45.669	0.00	0.00
ATOM	2555	O	ASN	X	166	35.986	55.671	45.397	0.00	0.00
ATOM	2556	N	VAL	X	167	37.029	57.633	45.005	0.00	0.00
ATOM	2557	H	VAL	X	167	37.749	58.256	45.344	0.00	0.00
ATOM	2558	CA	VAL	X	167	36.068	58.047	43.977	0.00	0.00
ATOM	2559	HA	VAL	X	167	35.110	57.927	44.483	0.00	0.00
ATOM	2560	CB	VAL	X	167	36.135	59.502	43.486	0.00	0.00
ATOM	2561	HB	VAL	X	167	35.269	59.575	42.829	0.00	0.00
ATOM	2562	CG1	VAL	X	167	35.827	60.426	44.747	0.00	0.00
ATOM	2563	HG11	VAL	X	167	34.957	60.130	45.333	0.00	0.00
ATOM	2564	HG12	VAL	X	167	36.677	60.440	45.428	0.00	0.00
ATOM	2565	HG13	VAL	X	167	35.840	61.466	44.421	0.00	0.00
ATOM	2566	CG2	VAL	X	167	37.528	59.861	42.802	0.00	0.00
ATOM	2567	HG21	VAL	X	167	37.558	60.944	42.688	0.00	0.00
ATOM	2568	HG22	VAL	X	167	37.623	59.288	41.879	0.00	0.00
ATOM	2569	HG23	VAL	X	167	38.347	59.602	43.473	0.00	0.00
ATOM	2570	C	VAL	X	167	35.898	57.093	42.853	0.00	0.00
ATOM	2571	O	VAL	X	167	34.824	57.110	42.257	0.00	0.00
ATOM	2572	N	GLY	X	168	36.837	56.163	42.594	0.00	0.00
ATOM	2573	H	GLY	X	168	37.594	56.065	43.255	0.00	0.00
ATOM	2574	CA	GLY	X	168	36.670	55.005	41.703	0.00	0.00
ATOM	2575	HA2	GLY	X	168	36.265	55.396	40.770	0.00	0.00
ATOM	2576	HA3	GLY	X	168	37.628	54.502	41.567	0.00	0.00
ATOM	2577	C	GLY	X	168	35.716	53.877	42.081	0.00	0.00
ATOM	2578	O	GLY	X	168	35.469	52.970	41.252	0.00	0.00
ATOM	2579	N	LEU	X	169	35.073	53.970	43.229	0.00	0.00
ATOM	2580	H	LEU	X	169	35.425	54.705	43.827	0.00	0.00
ATOM	2581	CA	LEU	X	169	33.924	53.187	43.658	0.00	0.00
ATOM	2582	HA	LEU	X	169	33.800	52.369	42.948	0.00	0.00
ATOM	2583	CB	LEU	X	169	34.164	52.688	45.140	0.00	0.00
ATOM	2584	HB2	LEU	X	169	34.411	53.516	45.803	0.00	0.00
ATOM	2585	HB3	LEU	X	169	33.197	52.315	45.477	0.00	0.00
ATOM	2586	CG	LEU	X	169	35.251	51.576	45.202	0.00	0.00
ATOM	2587	HG	LEU	X	169	36.071	51.952	44.590	0.00	0.00
ATOM	2588	CD1	LEU	X	169	35.797	51.506	46.612	0.00	0.00
ATOM	2589	HD11	LEU	X	169	36.196	52.460	46.957	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.724	50.932	46.611	0.00	0.00
ATOM	2591	HD13	LEU	X	169	35.037	51.064	47.256	0.00	0.00
ATOM	2592	CD2	LEU	X	169	34.787	50.305	44.611	0.00	0.00
ATOM	2593	HD21	LEU	X	169	33.836	50.009	45.054	0.00	0.00
ATOM	2594	HD22	LEU	X	169	34.824	50.398	43.525	0.00	0.00
ATOM	2595	HD23	LEU	X	169	35.464	49.473	44.805	0.00	0.00
ATOM	2596	C	LEU	X	169	32.651	54.048	43.498	0.00	0.00
ATOM	2597	O	LEU	X	169	31.561	53.511	43.555	0.00	0.00
ATOM	2598	N	LEU	X	170	32.808	55.361	43.425	0.00	0.00
ATOM	2599	H	LEU	X	170	33.717	55.711	43.157	0.00	0.00
ATOM	2600	CA	LEU	X	170	31.647	56.279	43.197	0.00	0.00
ATOM	2601	HA	LEU	X	170	30.793	55.911	43.765	0.00	0.00
ATOM	2602	CB	LEU	X	170	31.874	57.723	43.733	0.00	0.00
ATOM	2603	HB2	LEU	X	170	32.893	58.094	43.631	0.00	0.00
ATOM	2604	HB3	LEU	X	170	31.207	58.435	43.246	0.00	0.00
ATOM	2605	CG	LEU	X	170	31.526	57.783	45.256	0.00	0.00
ATOM	2606	HG	LEU	X	170	31.599	56.804	45.729	0.00	0.00
ATOM	2607	CD1	LEU	X	170	32.552	58.595	46.046	0.00	0.00
ATOM	2608	HD11	LEU	X	170	33.440	57.965	46.095	0.00	0.00
ATOM	2609	HD12	LEU	X	170	32.222	58.648	47.084	0.00	0.00
ATOM	2610	HD13	LEU	X	170	32.665	59.622	45.696	0.00	0.00
ATOM	2611	CD2	LEU	X	170	30.101	58.176	45.424	0.00	0.00
ATOM	2612	HD21	LEU	X	170	29.892	58.280	46.488	0.00	0.00
ATOM	2613	HD22	LEU	X	170	29.950	59.179	45.024	0.00	0.00
ATOM	2614	HD23	LEU	X	170	29.469	57.391	45.009	0.00	0.00
ATOM	2615	C	LEU	X	170	31.289	56.285	41.730	0.00	0.00
ATOM	2616	O	LEU	X	170	30.116	56.326	41.407	0.00	0.00
ATOM	2617	N	ASP	X	171	32.235	56.119	40.787	0.00	0.00

ATOM	2618	H	ASP	X	171	33.173	56.379	41.060	0.00	0.00
ATOM	2619	CA	ASP	X	171	31.988	55.878	39.372	0.00	0.00
ATOM	2620	HA	ASP	X	171	31.509	56.785	39.005	0.00	0.00
ATOM	2621	CB	ASP	X	171	33.360	55.635	38.718	0.00	0.00
ATOM	2622	HB2	ASP	X	171	33.785	54.750	39.191	0.00	0.00
ATOM	2623	HB3	ASP	X	171	33.247	55.267	37.698	0.00	0.00
ATOM	2624	CG	ASP	X	171	34.450	56.758	38.737	0.00	0.00
ATOM	2625	OD1	ASP	X	171	34.095	57.918	39.107	0.00	0.00
ATOM	2626	OD2	ASP	X	171	35.677	56.463	38.414	0.00	0.00
ATOM	2627	C	ASP	X	171	31.056	54.608	39.254	0.00	0.00
ATOM	2628	O	ASP	X	171	30.150	54.482	38.414	0.00	0.00
ATOM	2629	N	GLN	X	172	31.263	53.577	40.150	0.00	0.00
ATOM	2630	H	GLN	X	172	31.925	53.748	40.892	0.00	0.00
ATOM	2631	CA	GLN	X	172	30.571	52.314	40.046	0.00	0.00
ATOM	2632	HA	GLN	X	172	30.522	51.989	39.006	0.00	0.00
ATOM	2633	CB	GLN	X	172	31.255	51.281	40.933	0.00	0.00
ATOM	2634	HB2	GLN	X	172	31.300	51.472	42.005	0.00	0.00
ATOM	2635	HB3	GLN	X	172	30.583	50.426	41.000	0.00	0.00
ATOM	2636	CG	GLN	X	172	32.707	50.937	40.382	0.00	0.00
ATOM	2637	HG2	GLN	X	172	32.607	50.578	39.358	0.00	0.00
ATOM	2638	HG3	GLN	X	172	33.277	51.865	40.341	0.00	0.00
ATOM	2639	CD	GLN	X	172	33.447	49.839	41.196	0.00	0.00
ATOM	2640	OE1	GLN	X	172	32.981	49.304	42.187	0.00	0.00
ATOM	2641	NE2	GLN	X	172	34.593	49.393	40.699	0.00	0.00
ATOM	2642	HE21	GLN	X	172	35.087	48.659	41.186	0.00	0.00
ATOM	2643	HE22	GLN	X	172	35.028	49.827	39.897	0.00	0.00
ATOM	2644	C	GLN	X	172	29.097	52.501	40.541	0.00	0.00
ATOM	2645	O	GLN	X	172	28.202	51.871	39.943	0.00	0.00
ATOM	2646	N	ARG	X	173	28.868	53.232	41.603	0.00	0.00
ATOM	2647	H	ARG	X	173	29.697	53.582	42.061	0.00	0.00
ATOM	2648	CA	ARG	X	173	27.545	53.530	42.059	0.00	0.00
ATOM	2649	HA	ARG	X	173	26.945	52.629	42.187	0.00	0.00
ATOM	2650	CB	ARG	X	173	27.643	54.122	43.498	0.00	0.00
ATOM	2651	HB2	ARG	X	173	28.179	53.353	44.054	0.00	0.00
ATOM	2652	HB3	ARG	X	173	28.209	55.053	43.493	0.00	0.00
ATOM	2653	CG	ARG	X	173	26.276	54.483	44.105	0.00	0.00
ATOM	2654	HG2	ARG	X	173	25.860	55.301	43.519	0.00	0.00
ATOM	2655	HG3	ARG	X	173	25.548	53.674	44.056	0.00	0.00
ATOM	2656	CD	ARG	X	173	26.430	55.026	45.570	0.00	0.00
ATOM	2657	HD2	ARG	X	173	27.093	55.889	45.506	0.00	0.00
ATOM	2658	HD3	ARG	X	173	25.456	55.307	45.972	0.00	0.00
ATOM	2659	NE	ARG	X	173	27.068	54.042	46.475	0.00	0.00
ATOM	2660	HE	ARG	X	173	26.891	53.119	46.104	0.00	0.00
ATOM	2661	CZ	ARG	X	173	27.634	54.193	47.640	0.00	0.00
ATOM	2662	NH1	ARG	X	173	27.744	55.406	48.146	0.00	0.00
ATOM	2663	HH11	ARG	X	173	27.422	56.259	47.710	0.00	0.00
ATOM	2664	HH12	ARG	X	173	28.158	55.566	49.054	0.00	0.00
ATOM	2665	NH2	ARG	X	173	27.998	53.139	48.330	0.00	0.00
ATOM	2666	HH21	ARG	X	173	27.882	52.202	47.971	0.00	0.00
ATOM	2667	HH22	ARG	X	173	28.382	53.280	49.254	0.00	0.00
ATOM	2668	C	ARG	X	173	26.729	54.342	41.060	0.00	0.00
ATOM	2669	O	ARG	X	173	25.498	54.070	40.853	0.00	0.00
ATOM	2670	N	LEU	X	174	27.231	55.380	40.362	0.00	0.00
ATOM	2671	H	LEU	X	174	28.168	55.685	40.583	0.00	0.00
ATOM	2672	CA	LEU	X	174	26.540	55.958	39.176	0.00	0.00
ATOM	2673	HA	LEU	X	174	25.582	56.426	39.400	0.00	0.00
ATOM	2674	CB	LEU	X	174	27.427	56.981	38.458	0.00	0.00
ATOM	2675	HB2	LEU	X	174	28.410	56.556	38.257	0.00	0.00
ATOM	2676	HB3	LEU	X	174	26.928	57.223	37.519	0.00	0.00
ATOM	2677	CG	LEU	X	174	27.678	58.378	39.067	0.00	0.00
ATOM	2678	HG	LEU	X	174	28.349	58.223	39.912	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.232	59.361	38.067	0.00	0.00
ATOM	2680	HD11	LEU	X	174	28.289	60.285	38.642	0.00	0.00
ATOM	2681	HD12	LEU	X	174	27.513	59.461	37.254	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.156	59.007	37.611	0.00	0.00
ATOM	2683	CD2	LEU	X	174	26.396	59.025	39.638	0.00	0.00
ATOM	2684	HD21	LEU	X	174	26.584	60.070	39.884	0.00	0.00

ATOM	2685	HD22	LEU	X	174	25.578	59.116	38.923	0.00	0.00
ATOM	2686	HD23	LEU	X	174	26.104	58.469	40.528	0.00	0.00
ATOM	2687	C	LEU	X	174	26.166	54.886	38.176	0.00	0.00
ATOM	2688	O	LEU	X	174	25.091	55.038	37.586	0.00	0.00
ATOM	2689	N	ALA	X	175	26.974	53.862	37.928	0.00	0.00
ATOM	2690	H	ALA	X	175	27.718	53.739	38.600	0.00	0.00
ATOM	2691	CA	ALA	X	175	26.717	52.924	36.944	0.00	0.00
ATOM	2692	HA	ALA	X	175	26.170	53.379	36.119	0.00	0.00
ATOM	2693	CB	ALA	X	175	28.062	52.364	36.532	0.00	0.00
ATOM	2694	HB1	ALA	X	175	28.603	52.027	37.417	0.00	0.00
ATOM	2695	HB2	ALA	X	175	28.687	53.119	36.056	0.00	0.00
ATOM	2696	HB3	ALA	X	175	27.901	51.582	35.789	0.00	0.00
ATOM	2697	C	ALA	X	175	25.715	51.849	37.500	0.00	0.00
ATOM	2698	O	ALA	X	175	24.719	51.484	36.802	0.00	0.00
ATOM	2699	N	LEU	X	176	25.688	51.438	38.764	0.00	0.00
ATOM	2700	H	LEU	X	176	26.493	51.579	39.358	0.00	0.00
ATOM	2701	CA	LEU	X	176	24.549	50.707	39.354	0.00	0.00
ATOM	2702	HA	LEU	X	176	24.384	49.830	38.727	0.00	0.00
ATOM	2703	CB	LEU	X	176	24.841	50.268	40.843	0.00	0.00
ATOM	2704	HB2	LEU	X	176	24.970	51.134	41.493	0.00	0.00
ATOM	2705	HB3	LEU	X	176	23.969	49.692	41.153	0.00	0.00
ATOM	2706	CG	LEU	X	176	26.081	49.344	41.072	0.00	0.00
ATOM	2707	HG	LEU	X	176	27.047	49.806	40.865	0.00	0.00
ATOM	2708	CD1	LEU	X	176	26.091	48.923	42.543	0.00	0.00
ATOM	2709	HD11	LEU	X	176	26.868	48.180	42.721	0.00	0.00
ATOM	2710	HD12	LEU	X	176	25.125	48.594	42.925	0.00	0.00
ATOM	2711	HD13	LEU	X	176	26.405	49.763	43.164	0.00	0.00
ATOM	2712	CD2	LEU	X	176	25.914	48.091	40.180	0.00	0.00
ATOM	2713	HD21	LEU	X	176	26.528	47.217	40.397	0.00	0.00
ATOM	2714	HD22	LEU	X	176	24.900	47.708	40.069	0.00	0.00
ATOM	2715	HD23	LEU	X	176	26.212	48.351	39.164	0.00	0.00
ATOM	2716	C	LEU	X	176	23.228	51.492	39.358	0.00	0.00
ATOM	2717	O	LEU	X	176	22.227	50.926	38.951	0.00	0.00
ATOM	2718	N	GLN	X	177	23.232	52.779	39.658	0.00	0.00
ATOM	2719	H	GLN	X	177	24.149	53.190	39.757	0.00	0.00
ATOM	2720	CA	GLN	X	177	22.059	53.667	39.478	0.00	0.00
ATOM	2721	HA	GLN	X	177	21.203	53.246	40.004	0.00	0.00
ATOM	2722	CB	GLN	X	177	22.180	55.109	39.963	0.00	0.00
ATOM	2723	HB2	GLN	X	177	23.039	55.547	39.455	0.00	0.00
ATOM	2724	HB3	GLN	X	177	21.347	55.772	39.730	0.00	0.00
ATOM	2725	CG	GLN	X	177	22.355	55.346	41.516	0.00	0.00
ATOM	2726	HG2	GLN	X	177	21.571	54.829	42.069	0.00	0.00
ATOM	2727	HG3	GLN	X	177	23.350	55.002	41.798	0.00	0.00
ATOM	2728	CD	GLN	X	177	22.300	56.826	41.881	0.00	0.00
ATOM	2729	OE1	GLN	X	177	22.960	57.644	41.251	0.00	0.00
ATOM	2730	NE2	GLN	X	177	21.561	57.267	42.867	0.00	0.00
ATOM	2731	HE21	GLN	X	177	21.447	58.271	42.860	0.00	0.00
ATOM	2732	HE22	GLN	X	177	20.949	56.690	43.426	0.00	0.00
ATOM	2733	C	GLN	X	177	21.581	53.557	38.030	0.00	0.00
ATOM	2734	O	GLN	X	177	20.396	53.358	37.750	0.00	0.00
ATOM	2735	N	TRP	X	178	22.515	53.766	37.103	0.00	0.00
ATOM	2736	H	TRP	X	178	23.427	53.990	37.475	0.00	0.00
ATOM	2737	CA	TRP	X	178	22.258	53.663	35.642	0.00	0.00
ATOM	2738	HA	TRP	X	178	21.571	54.494	35.486	0.00	0.00
ATOM	2739	CB	TRP	X	178	23.555	54.096	34.862	0.00	0.00
ATOM	2740	HB2	TRP	X	178	23.954	55.007	35.309	0.00	0.00
ATOM	2741	HB3	TRP	X	178	24.335	53.336	34.920	0.00	0.00
ATOM	2742	CG	TRP	X	178	23.335	54.426	33.444	0.00	0.00
ATOM	2743	CD1	TRP	X	178	23.423	55.672	32.975	0.00	0.00
ATOM	2744	HD1	TRP	X	178	23.718	56.528	33.564	0.00	0.00
ATOM	2745	NE1	TRP	X	178	23.228	55.655	31.611	0.00	0.00
ATOM	2746	HE1	TRP	X	178	23.346	56.470	31.025	0.00	0.00
ATOM	2747	CE2	TRP	X	178	22.950	54.404	31.178	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	22.719	53.930	29.909	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	22.750	54.579	29.047	0.00	0.00
ATOM	2750	CH2	TRP	X	178	22.672	52.544	29.744	0.00	0.00
ATOM	2751	HH2	TRP	X	178	22.597	52.197	28.724	0.00	0.00

ATOM	2752	CZ3	TRP	X	178	22.926	51.633	30.830	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	22.909	50.578	30.602	0.00	0.00
ATOM	2754	CE3	TRP	X	178	23.153	52.175	32.091	0.00	0.00
ATOM	2755	HE3	TRP	X	178	23.276	51.504	32.928	0.00	0.00
ATOM	2756	CD2	TRP	X	178	23.064	53.540	32.296	0.00	0.00
ATOM	2757	C	TRP	X	178	21.711	52.314	35.174	0.00	0.00
ATOM	2758	O	TRP	X	178	20.763	52.251	34.432	0.00	0.00
ATOM	2759	N	VAL	X	179	22.177	51.210	35.751	0.00	0.00
ATOM	2760	H	VAL	X	179	22.814	51.347	36.522	0.00	0.00
ATOM	2761	CA	VAL	X	179	21.720	49.862	35.485	0.00	0.00
ATOM	2762	HA	VAL	X	179	21.758	49.698	34.408	0.00	0.00
ATOM	2763	CB	VAL	X	179	22.753	48.908	36.072	0.00	0.00
ATOM	2764	HB	VAL	X	179	23.077	49.186	37.075	0.00	0.00
ATOM	2765	CG1	VAL	X	179	22.199	47.452	36.227	0.00	0.00
ATOM	2766	HG11	VAL	X	179	21.851	47.057	35.273	0.00	0.00
ATOM	2767	HG12	VAL	X	179	23.009	46.771	36.490	0.00	0.00
ATOM	2768	HG13	VAL	X	179	21.440	47.366	37.004	0.00	0.00
ATOM	2769	CG2	VAL	X	179	24.115	48.830	35.269	0.00	0.00
ATOM	2770	HG21	VAL	X	179	24.788	48.268	35.917	0.00	0.00
ATOM	2771	HG22	VAL	X	179	24.425	49.843	35.013	0.00	0.00
ATOM	2772	HG23	VAL	X	179	23.989	48.420	34.267	0.00	0.00
ATOM	2773	C	VAL	X	179	20.334	49.694	36.007	0.00	0.00
ATOM	2774	O	VAL	X	179	19.491	49.206	35.229	0.00	0.00
ATOM	2775	N	GLN	X	180	20.034	50.042	37.264	0.00	0.00
ATOM	2776	H	GLN	X	180	20.735	50.346	37.924	0.00	0.00
ATOM	2777	CA	GLN	X	180	18.695	49.800	37.803	0.00	0.00
ATOM	2778	HA	GLN	X	180	18.502	48.739	37.640	0.00	0.00
ATOM	2779	CB	GLN	X	180	18.689	50.231	39.315	0.00	0.00
ATOM	2780	HB2	GLN	X	180	19.358	51.074	39.485	0.00	0.00
ATOM	2781	HB3	GLN	X	180	17.712	50.578	39.650	0.00	0.00
ATOM	2782	CG	GLN	X	180	19.139	49.027	40.203	0.00	0.00
ATOM	2783	HG2	GLN	X	180	20.114	48.678	39.865	0.00	0.00
ATOM	2784	HG3	GLN	X	180	19.213	49.347	41.243	0.00	0.00
ATOM	2785	CD	GLN	X	180	18.107	47.850	40.177	0.00	0.00
ATOM	2786	OE1	GLN	X	180	17.160	47.802	39.376	0.00	0.00
ATOM	2787	NE2	GLN	X	180	18.303	46.805	40.961	0.00	0.00
ATOM	2788	HE21	GLN	X	180	17.574	46.108	41.006	0.00	0.00
ATOM	2789	HE22	GLN	X	180	19.031	46.971	41.641	0.00	0.00
ATOM	2790	C	GLN	X	180	17.637	50.634	37.049	0.00	0.00
ATOM	2791	O	GLN	X	180	16.436	50.206	36.971	0.00	0.00
ATOM	2792	N	GLU	X	181	18.046	51.775	36.543	0.00	0.00
ATOM	2793	H	GLU	X	181	18.963	52.148	36.744	0.00	0.00
ATOM	2794	CA	GLU	X	181	17.308	52.670	35.712	0.00	0.00
ATOM	2795	HA	GLU	X	181	16.363	52.694	36.254	0.00	0.00
ATOM	2796	CB	GLU	X	181	17.961	54.063	35.531	0.00	0.00
ATOM	2797	HB2	GLU	X	181	18.396	54.519	36.421	0.00	0.00
ATOM	2798	HB3	GLU	X	181	18.716	53.982	34.750	0.00	0.00
ATOM	2799	CG	GLU	X	181	16.948	55.077	34.972	0.00	0.00
ATOM	2800	HG2	GLU	X	181	17.586	55.898	34.645	0.00	0.00
ATOM	2801	HG3	GLU	X	181	16.273	54.788	34.166	0.00	0.00
ATOM	2802	CD	GLU	X	181	16.058	55.695	36.042	0.00	0.00
ATOM	2803	OE1	GLU	X	181	14.817	55.579	35.963	0.00	0.00
ATOM	2804	OE2	GLU	X	181	16.607	56.287	36.995	0.00	0.00
ATOM	2805	C	GLU	X	181	17.093	52.078	34.318	0.00	0.00
ATOM	2806	O	GLU	X	181	15.987	52.176	33.808	0.00	0.00
ATOM	2807	N	ASN	X	182	18.128	51.585	33.560	0.00	0.00
ATOM	2808	H	ASN	X	182	19.033	51.678	33.999	0.00	0.00
ATOM	2809	CA	ASN	X	182	18.100	51.398	32.093	0.00	0.00
ATOM	2810	HA	ASN	X	182	17.096	51.727	31.822	0.00	0.00
ATOM	2811	CB	ASN	X	182	19.158	52.285	31.367	0.00	0.00
ATOM	2812	HB2	ASN	X	182	20.129	52.039	31.796	0.00	0.00
ATOM	2813	HB3	ASN	X	182	19.115	52.131	30.289	0.00	0.00
ATOM	2814	CG	ASN	X	182	18.893	53.765	31.616	0.00	0.00
ATOM	2815	OD1	ASN	X	182	17.849	54.218	31.202	0.00	0.00
ATOM	2816	ND2	ASN	X	182	19.788	54.476	32.380	0.00	0.00
ATOM	2817	HD21	ASN	X	182	19.566	55.436	32.602	0.00	0.00
ATOM	2818	HD22	ASN	X	182	20.664	54.124	32.740	0.00	0.00

ATOM	2819	C	ASN	X	182	18.135	49.980	31.534	0.00	0.00
ATOM	2820	O	ASN	X	182	17.743	49.759	30.398	0.00	0.00
ATOM	2821	N	VAL	X	183	18.520	49.046	32.372	0.00	0.00
ATOM	2822	H	VAL	X	183	18.797	49.299	33.310	0.00	0.00
ATOM	2823	CA	VAL	X	183	18.920	47.679	31.885	0.00	0.00
ATOM	2824	HA	VAL	X	183	19.688	47.854	31.132	0.00	0.00
ATOM	2825	CB	VAL	X	183	19.456	46.755	33.083	0.00	0.00
ATOM	2826	HB	VAL	X	183	20.212	47.322	33.625	0.00	0.00
ATOM	2827	CG1	VAL	X	183	18.404	46.302	34.128	0.00	0.00
ATOM	2828	HG11	VAL	X	183	17.896	47.158	34.573	0.00	0.00
ATOM	2829	HG12	VAL	X	183	17.689	45.539	33.820	0.00	0.00
ATOM	2830	HG13	VAL	X	183	19.009	45.922	34.952	0.00	0.00
ATOM	2831	CG2	VAL	X	183	20.145	45.528	32.527	0.00	0.00
ATOM	2832	HG21	VAL	X	183	20.875	45.835	31.778	0.00	0.00
ATOM	2833	HG22	VAL	X	183	19.429	44.803	32.141	0.00	0.00
ATOM	2834	HG23	VAL	X	183	20.642	45.075	33.385	0.00	0.00
ATOM	2835	C	VAL	X	183	17.828	46.870	31.263	0.00	0.00
ATOM	2836	O	VAL	X	183	18.009	46.088	30.281	0.00	0.00
ATOM	2837	N	ALA	X	184	16.628	47.104	31.813	0.00	0.00
ATOM	2838	H	ALA	X	184	16.563	47.815	32.527	0.00	0.00
ATOM	2839	CA	ALA	X	184	15.345	46.521	31.400	0.00	0.00
ATOM	2840	HA	ALA	X	184	15.520	45.446	31.345	0.00	0.00
ATOM	2841	CB	ALA	X	184	14.267	46.998	32.283	0.00	0.00
ATOM	2842	HB1	ALA	X	184	13.349	46.768	31.740	0.00	0.00
ATOM	2843	HB2	ALA	X	184	14.387	48.061	32.493	0.00	0.00
ATOM	2844	HB3	ALA	X	184	14.329	46.445	33.220	0.00	0.00
ATOM	2845	C	ALA	X	184	15.111	46.781	29.889	0.00	0.00
ATOM	2846	O	ALA	X	184	14.788	45.834	29.212	0.00	0.00
ATOM	2847	N	ALA	X	185	15.499	47.936	29.310	0.00	0.00
ATOM	2848	H	ALA	X	185	15.955	48.611	29.907	0.00	0.00
ATOM	2849	CA	ALA	X	185	15.447	48.270	27.886	0.00	0.00
ATOM	2850	HA	ALA	X	185	14.415	48.132	27.565	0.00	0.00
ATOM	2851	CB	ALA	X	185	15.828	49.670	27.730	0.00	0.00
ATOM	2852	HB1	ALA	X	185	15.343	50.362	28.419	0.00	0.00
ATOM	2853	HB2	ALA	X	185	15.540	50.034	26.743	0.00	0.00
ATOM	2854	HB3	ALA	X	185	16.899	49.792	27.892	0.00	0.00
ATOM	2855	C	ALA	X	185	16.235	47.244	27.032	0.00	0.00
ATOM	2856	O	ALA	X	185	15.826	46.726	26.011	0.00	0.00
ATOM	2857	N	PHE	X	186	17.507	46.909	27.470	0.00	0.00
ATOM	2858	H	PHE	X	186	17.797	47.320	28.345	0.00	0.00
ATOM	2859	CA	PHE	X	186	18.302	45.880	26.819	0.00	0.00
ATOM	2860	HA	PHE	X	186	18.328	46.028	25.739	0.00	0.00
ATOM	2861	CB	PHE	X	186	19.762	46.136	27.329	0.00	0.00
ATOM	2862	HB2	PHE	X	186	19.908	45.658	28.298	0.00	0.00
ATOM	2863	HB3	PHE	X	186	20.340	45.515	26.646	0.00	0.00
ATOM	2864	CG	PHE	X	186	20.280	47.616	27.206	0.00	0.00
ATOM	2865	CD1	PHE	X	186	20.023	48.563	28.198	0.00	0.00
ATOM	2866	HD1	PHE	X	186	19.367	48.405	29.042	0.00	0.00
ATOM	2867	CE1	PHE	X	186	20.529	49.882	28.103	0.00	0.00
ATOM	2868	HE1	PHE	X	186	20.366	50.607	28.886	0.00	0.00
ATOM	2869	CZ	PHE	X	186	21.252	50.304	26.966	0.00	0.00
ATOM	2870	HZ	PHE	X	186	21.625	51.318	26.969	0.00	0.00
ATOM	2871	CE2	PHE	X	186	21.583	49.348	26.020	0.00	0.00
ATOM	2872	HE2	PHE	X	186	22.269	49.562	25.214	0.00	0.00
ATOM	2873	CD2	PHE	X	186	21.066	48.047	26.142	0.00	0.00
ATOM	2874	HD2	PHE	X	186	21.326	47.385	25.329	0.00	0.00
ATOM	2875	C	PHE	X	186	17.860	44.446	27.098	0.00	0.00
ATOM	2876	O	PHE	X	186	18.303	43.496	26.433	0.00	0.00
ATOM	2877	N	GLY	X	187	16.910	44.192	27.999	0.00	0.00
ATOM	2878	H	GLY	X	187	16.629	45.017	28.509	0.00	0.00
ATOM	2879	CA	GLY	X	187	16.127	43.001	28.203	0.00	0.00
ATOM	2880	HA2	GLY	X	187	15.107	43.166	27.854	0.00	0.00
ATOM	2881	HA3	GLY	X	187	16.489	42.256	27.495	0.00	0.00
ATOM	2882	C	GLY	X	187	16.082	42.377	29.604	0.00	0.00
ATOM	2883	O	GLY	X	187	15.617	41.258	29.866	0.00	0.00
ATOM	2884	N	GLY	X	188	16.625	43.124	30.548	0.00	0.00
ATOM	2885	H	GLY	X	188	16.879	44.070	30.301	0.00	0.00

ATOM	2886	CA	GLY	X	188	16.836	42.652	31.916	0.00	0.00
ATOM	2887	HA2	GLY	X	188	17.122	41.610	31.772	0.00	0.00
ATOM	2888	HA3	GLY	X	188	17.684	43.156	32.379	0.00	0.00
ATOM	2889	C	GLY	X	188	15.719	42.665	32.939	0.00	0.00
ATOM	2890	O	GLY	X	188	14.689	43.293	32.709	0.00	0.00
ATOM	2891	N	ASP	X	189	15.924	42.191	34.165	0.00	0.00
ATOM	2892	H	ASP	X	189	16.850	41.802	34.269	0.00	0.00
ATOM	2893	CA	ASP	X	189	14.989	42.143	35.331	0.00	0.00
ATOM	2894	HA	ASP	X	189	14.033	42.446	34.904	0.00	0.00
ATOM	2895	CB	ASP	X	189	14.853	40.729	35.705	0.00	0.00
ATOM	2896	HB2	ASP	X	189	14.413	40.135	34.904	0.00	0.00
ATOM	2897	HB3	ASP	X	189	15.860	40.342	35.861	0.00	0.00
ATOM	2898	CG	ASP	X	189	14.069	40.438	37.041	0.00	0.00
ATOM	2899	OD1	ASP	X	189	14.056	39.316	37.566	0.00	0.00
ATOM	2900	OD2	ASP	X	189	13.422	41.343	37.608	0.00	0.00
ATOM	2901	C	ASP	X	189	15.514	43.016	36.513	0.00	0.00
ATOM	2902	O	ASP	X	189	16.380	42.558	37.238	0.00	0.00
ATOM	2903	N	PRO	X	190	14.880	44.231	36.773	0.00	0.00
ATOM	2904	CD	PRO	X	190	13.908	44.850	35.811	0.00	0.00
ATOM	2905	HD2	PRO	X	190	12.920	44.397	35.904	0.00	0.00
ATOM	2906	HD3	PRO	X	190	14.303	44.780	34.797	0.00	0.00
ATOM	2907	CG	PRO	X	190	13.950	46.325	36.292	0.00	0.00
ATOM	2908	HG2	PRO	X	190	12.982	46.788	36.098	0.00	0.00
ATOM	2909	HG3	PRO	X	190	14.797	46.730	35.738	0.00	0.00
ATOM	2910	CB	PRO	X	190	14.267	46.319	37.797	0.00	0.00
ATOM	2911	HB2	PRO	X	190	13.347	46.211	38.372	0.00	0.00
ATOM	2912	HB3	PRO	X	190	14.747	47.226	38.164	0.00	0.00
ATOM	2913	CA	PRO	X	190	15.174	45.078	37.949	0.00	0.00
ATOM	2914	HA	PRO	X	190	16.172	45.511	37.879	0.00	0.00
ATOM	2915	C	PRO	X	190	15.153	44.412	39.342	0.00	0.00
ATOM	2916	O	PRO	X	190	15.693	44.966	40.260	0.00	0.00
ATOM	2917	N	THR	X	191	14.456	43.292	39.430	0.00	0.00
ATOM	2918	H	THR	X	191	13.825	42.981	38.705	0.00	0.00
ATOM	2919	CA	THR	X	191	14.377	42.579	40.737	0.00	0.00
ATOM	2920	HA	THR	X	191	14.664	43.212	41.576	0.00	0.00
ATOM	2921	CB	THR	X	191	12.968	42.023	41.056	0.00	0.00
ATOM	2922	HB	THR	X	191	12.987	41.712	42.100	0.00	0.00
ATOM	2923	CG2	THR	X	191	11.843	43.041	40.864	0.00	0.00
ATOM	2924	HG21	THR	X	191	11.821	43.191	39.785	0.00	0.00
ATOM	2925	HG22	THR	X	191	12.033	44.060	41.202	0.00	0.00
ATOM	2926	HG23	THR	X	191	10.862	42.647	41.130	0.00	0.00
ATOM	2927	OG1	THR	X	191	12.753	40.935	40.235	0.00	0.00
ATOM	2928	HG1	THR	X	191	12.857	41.172	39.311	0.00	0.00
ATOM	2929	C	THR	X	191	15.398	41.392	40.824	0.00	0.00
ATOM	2930	O	THR	X	191	15.337	40.664	41.845	0.00	0.00
ATOM	2931	N	SER	X	192	16.343	41.159	39.888	0.00	0.00
ATOM	2932	H	SER	X	192	16.351	41.716	39.046	0.00	0.00
ATOM	2933	CA	SER	X	192	17.310	40.137	39.886	0.00	0.00
ATOM	2934	HA	SER	X	192	17.464	39.707	40.875	0.00	0.00
ATOM	2935	CB	SER	X	192	16.792	38.846	39.040	0.00	0.00
ATOM	2936	HB2	SER	X	192	16.600	39.230	38.039	0.00	0.00
ATOM	2937	HB3	SER	X	192	17.673	38.212	38.939	0.00	0.00
ATOM	2938	OG	SER	X	192	15.579	38.261	39.425	0.00	0.00
ATOM	2939	HG	SER	X	192	14.892	38.775	38.995	0.00	0.00
ATOM	2940	C	SER	X	192	18.620	40.709	39.347	0.00	0.00
ATOM	2941	O	SER	X	192	19.150	40.222	38.343	0.00	0.00
ATOM	2942	N	VAL	X	193	19.311	41.533	40.065	0.00	0.00
ATOM	2943	H	VAL	X	193	18.913	41.836	40.943	0.00	0.00
ATOM	2944	CA	VAL	X	193	20.679	41.960	39.817	0.00	0.00
ATOM	2945	HA	VAL	X	193	21.004	41.754	38.797	0.00	0.00
ATOM	2946	CB	VAL	X	193	20.861	43.488	39.933	0.00	0.00
ATOM	2947	HB	VAL	X	193	20.723	43.741	40.984	0.00	0.00
ATOM	2948	CG1	VAL	X	193	22.329	43.966	39.573	0.00	0.00
ATOM	2949	HG11	VAL	X	193	23.007	43.437	40.242	0.00	0.00
ATOM	2950	HG12	VAL	X	193	22.513	43.733	38.525	0.00	0.00
ATOM	2951	HG13	VAL	X	193	22.522	45.028	39.728	0.00	0.00
ATOM	2952	CG2	VAL	X	193	19.905	44.273	39.067	0.00	0.00

ATOM	2953	HG21	VAL	X	193	18.905	44.064	39.446	0.00	0.00
ATOM	2954	HG22	VAL	X	193	19.983	43.924	38.037	0.00	0.00
ATOM	2955	HG23	VAL	X	193	20.113	45.344	39.075	0.00	0.00
ATOM	2956	C	VAL	X	193	21.716	41.344	40.731	0.00	0.00
ATOM	2957	O	VAL	X	193	21.611	41.565	41.959	0.00	0.00
ATOM	2958	N	THR	X	194	22.598	40.526	40.157	0.00	0.00
ATOM	2959	H	THR	X	194	22.515	40.254	39.188	0.00	0.00
ATOM	2960	CA	THR	X	194	23.778	39.911	40.748	0.00	0.00
ATOM	2961	HA	THR	X	194	23.724	39.963	41.835	0.00	0.00
ATOM	2962	CB	THR	X	194	23.878	38.390	40.459	0.00	0.00
ATOM	2963	HB	THR	X	194	23.565	38.113	39.452	0.00	0.00
ATOM	2964	CG2	THR	X	194	25.170	37.675	40.959	0.00	0.00
ATOM	2965	HG21	THR	X	194	25.072	36.597	40.834	0.00	0.00
ATOM	2966	HG22	THR	X	194	25.287	37.988	41.996	0.00	0.00
ATOM	2967	HG23	THR	X	194	25.984	38.093	40.366	0.00	0.00
ATOM	2968	OG1	THR	X	194	22.930	37.670	41.273	0.00	0.00
ATOM	2969	HG1	THR	X	194	22.067	37.875	40.906	0.00	0.00
ATOM	2970	C	THR	X	194	25.093	40.673	40.333	0.00	0.00
ATOM	2971	O	THR	X	194	25.439	40.596	39.119	0.00	0.00
ATOM	2972	N	LEU	X	195	25.725	41.328	41.263	0.00	0.00
ATOM	2973	H	LEU	X	195	25.278	41.376	42.167	0.00	0.00
ATOM	2974	CA	LEU	X	195	27.024	41.946	41.113	0.00	0.00
ATOM	2975	HA	LEU	X	195	27.068	42.457	40.151	0.00	0.00
ATOM	2976	CB	LEU	X	195	27.331	42.870	42.281	0.00	0.00
ATOM	2977	HB2	LEU	X	195	27.460	42.355	43.233	0.00	0.00
ATOM	2978	HB3	LEU	X	195	28.280	43.307	41.970	0.00	0.00
ATOM	2979	CG	LEU	X	195	26.407	44.055	42.651	0.00	0.00
ATOM	2980	HG	LEU	X	195	25.445	43.714	43.032	0.00	0.00
ATOM	2981	CD1	LEU	X	195	27.253	45.018	43.527	0.00	0.00
ATOM	2982	HD11	LEU	X	195	26.698	45.950	43.636	0.00	0.00
ATOM	2983	HD12	LEU	X	195	28.084	45.371	42.917	0.00	0.00
ATOM	2984	HD13	LEU	X	195	27.531	44.635	44.509	0.00	0.00
ATOM	2985	CD2	LEU	X	195	26.124	44.752	41.297	0.00	0.00
ATOM	2986	HD21	LEU	X	195	25.398	44.204	40.696	0.00	0.00
ATOM	2987	HD22	LEU	X	195	25.578	45.679	41.470	0.00	0.00
ATOM	2988	HD23	LEU	X	195	27.008	44.935	40.685	0.00	0.00
ATOM	2989	C	LEU	X	195	28.062	40.794	41.096	0.00	0.00
ATOM	2990	O	LEU	X	195	28.054	39.943	41.967	0.00	0.00
ATOM	2991	N	PHE	X	196	28.915	40.819	40.085	0.00	0.00
ATOM	2992	H	PHE	X	196	28.953	41.707	39.606	0.00	0.00
ATOM	2993	CA	PHE	X	196	29.835	39.735	39.722	0.00	0.00
ATOM	2994	HA	PHE	X	196	29.838	39.026	40.549	0.00	0.00
ATOM	2995	CB	PHE	X	196	29.142	39.097	38.524	0.00	0.00
ATOM	2996	HB2	PHE	X	196	28.111	38.877	38.801	0.00	0.00
ATOM	2997	HB3	PHE	X	196	29.067	39.882	37.772	0.00	0.00
ATOM	2998	CG	PHE	X	196	29.750	37.849	37.900	0.00	0.00
ATOM	2999	CD1	PHE	X	196	29.358	37.458	36.596	0.00	0.00
ATOM	3000	HD1	PHE	X	196	28.699	38.117	36.050	0.00	0.00
ATOM	3001	CE1	PHE	X	196	29.890	36.296	36.005	0.00	0.00
ATOM	3002	HE1	PHE	X	196	29.570	35.999	35.018	0.00	0.00
ATOM	3003	CZ	PHE	X	196	30.772	35.516	36.663	0.00	0.00
ATOM	3004	HZ	PHE	X	196	31.191	34.569	36.357	0.00	0.00
ATOM	3005	CE2	PHE	X	196	31.128	35.810	38.020	0.00	0.00
ATOM	3006	HE2	PHE	X	196	31.716	35.157	38.648	0.00	0.00
ATOM	3007	CD2	PHE	X	196	30.635	37.019	38.581	0.00	0.00
ATOM	3008	HD2	PHE	X	196	30.895	37.256	39.602	0.00	0.00
ATOM	3009	C	PHE	X	196	31.245	40.316	39.558	0.00	0.00
ATOM	3010	O	PHE	X	196	31.386	41.448	39.067	0.00	0.00
ATOM	3011	N	GLY	X	197	32.252	39.576	40.062	0.00	0.00
ATOM	3012	H	GLY	X	197	32.097	38.717	40.570	0.00	0.00
ATOM	3013	CA	GLY	X	197	33.578	40.183	39.950	0.00	0.00
ATOM	3014	HA2	GLY	X	197	33.837	40.339	38.903	0.00	0.00
ATOM	3015	HA3	GLY	X	197	33.607	41.096	40.544	0.00	0.00
ATOM	3016	C	GLY	X	197	34.665	39.280	40.467	0.00	0.00
ATOM	3017	O	GLY	X	197	34.410	38.196	41.155	0.00	0.00
ATOM	3018	N	GLU	X	198	35.952	39.609	40.152	0.00	0.00
ATOM	3019	H	GLU	X	198	36.130	40.429	39.591	0.00	0.00

ATOM	3020	CA	GLU	X	198	37.122	38.769	40.456	0.00	0.00
ATOM	3021	HA	GLU	X	198	36.935	37.984	41.189	0.00	0.00
ATOM	3022	CB	GLU	X	198	37.688	37.965	39.300	0.00	0.00
ATOM	3023	HB2	GLU	X	198	38.632	37.490	39.568	0.00	0.00
ATOM	3024	HB3	GLU	X	198	36.997	37.148	39.093	0.00	0.00
ATOM	3025	CG	GLU	X	198	38.009	38.756	38.056	0.00	0.00
ATOM	3026	HG2	GLU	X	198	37.941	38.128	37.168	0.00	0.00
ATOM	3027	HG3	GLU	X	198	37.260	39.542	37.958	0.00	0.00
ATOM	3028	CD	GLU	X	198	39.313	39.471	37.947	0.00	0.00
ATOM	3029	OE1	GLU	X	198	39.436	40.131	36.927	0.00	0.00
ATOM	3030	OE2	GLU	X	198	40.181	39.174	38.795	0.00	0.00
ATOM	3031	C	GLU	X	198	38.206	39.727	41.033	0.00	0.00
ATOM	3032	O	GLU	X	198	38.244	40.849	40.639	0.00	0.00
ATOM	3033	N	XA1	X	199	38.893	39.191	42.093	0.00	0.00
ATOM	3034	CA	XA1	X	199	40.127	39.940	42.551	0.00	0.00
ATOM	3035	C	XA1	X	199	39.877	41.394	43.120	0.00	0.00
ATOM	3036	O	XA1	X	199	39.194	41.653	44.138	0.00	0.00
ATOM	3037	CB	XA1	X	199	41.355	39.898	41.552	0.00	0.00
ATOM	3038	OG	XA1	X	199	42.493	40.236	42.297	0.00	0.00
ATOM	3039	P1	XA1	X	199	43.603	41.312	41.721	0.00	0.00
ATOM	3040	O1	XA1	X	199	42.925	42.462	41.091	0.00	0.00
ATOM	3041	O2	XA1	X	199	44.600	40.569	40.929	0.00	0.00
ATOM	3042	C1	XA1	X	199	44.308	41.743	43.262	0.00	0.00
ATOM	3043	H	XA1	X	199	38.756	38.203	42.254	0.00	0.00
ATOM	3044	HA	XA1	X	199	40.497	39.331	43.376	0.00	0.00
ATOM	3045	HB2	XA1	X	199	41.430	38.897	41.119	0.00	0.00
ATOM	3046	HB3	XA1	X	199	41.161	40.513	40.670	0.00	0.00
ATOM	3047	H11	XA1	X	199	43.470	42.280	43.713	0.00	0.00
ATOM	3048	H12	XA1	X	199	44.666	40.881	43.829	0.00	0.00
ATOM	3049	H13	XA1	X	199	45.139	42.430	43.093	0.00	0.00
ATOM	3050	N	ALA	X	200	40.367	42.520	42.474	0.00	0.00
ATOM	3051	H	ALA	X	200	40.931	42.452	41.639	0.00	0.00
ATOM	3052	CA	ALA	X	200	39.916	43.911	42.752	0.00	0.00
ATOM	3053	HA	ALA	X	200	40.114	44.001	43.820	0.00	0.00
ATOM	3054	CB	ALA	X	200	40.757	44.875	41.953	0.00	0.00
ATOM	3055	HB1	ALA	X	200	40.596	45.839	42.435	0.00	0.00
ATOM	3056	HB2	ALA	X	200	40.390	44.867	40.926	0.00	0.00
ATOM	3057	HB3	ALA	X	200	41.804	44.682	42.186	0.00	0.00
ATOM	3058	C	ALA	X	200	38.367	44.176	42.491	0.00	0.00
ATOM	3059	O	ALA	X	200	37.781	45.037	43.144	0.00	0.00
ATOM	3060	N	GLY	X	201	37.785	43.316	41.655	0.00	0.00
ATOM	3061	H	GLY	X	201	38.392	42.707	41.125	0.00	0.00
ATOM	3062	CA	GLY	X	201	36.319	43.326	41.442	0.00	0.00
ATOM	3063	HA2	GLY	X	201	36.029	44.374	41.520	0.00	0.00
ATOM	3064	HA3	GLY	X	201	36.174	42.869	40.463	0.00	0.00
ATOM	3065	C	GLY	X	201	35.622	42.590	42.475	0.00	0.00
ATOM	3066	O	GLY	X	201	34.662	43.045	43.088	0.00	0.00
ATOM	3067	N	ALA	X	202	36.219	41.478	42.925	0.00	0.00
ATOM	3068	H	ALA	X	202	37.147	41.279	42.578	0.00	0.00
ATOM	3069	CA	ALA	X	202	35.684	40.752	44.027	0.00	0.00
ATOM	3070	HA	ALA	X	202	34.610	40.654	43.869	0.00	0.00
ATOM	3071	CB	ALA	X	202	36.249	39.342	44.126	0.00	0.00
ATOM	3072	HB1	ALA	X	202	36.043	38.781	43.215	0.00	0.00
ATOM	3073	HB2	ALA	X	202	35.947	38.821	45.035	0.00	0.00
ATOM	3074	HB3	ALA	X	202	37.325	39.494	44.211	0.00	0.00
ATOM	3075	C	ALA	X	202	35.743	41.431	45.363	0.00	0.00
ATOM	3076	O	ALA	X	202	34.931	41.224	46.230	0.00	0.00
ATOM	3077	N	ALA	X	203	36.796	42.214	45.558	0.00	0.00
ATOM	3078	H	ALA	X	203	37.509	42.230	44.843	0.00	0.00
ATOM	3079	CA	ALA	X	203	36.858	43.140	46.673	0.00	0.00
ATOM	3080	HA	ALA	X	203	36.578	42.513	47.519	0.00	0.00
ATOM	3081	CB	ALA	X	203	38.226	43.778	46.761	0.00	0.00
ATOM	3082	HB1	ALA	X	203	38.364	44.391	45.870	0.00	0.00
ATOM	3083	HB2	ALA	X	203	38.895	42.923	46.855	0.00	0.00
ATOM	3084	HB3	ALA	X	203	38.193	44.429	47.635	0.00	0.00
ATOM	3085	C	ALA	X	203	35.782	44.240	46.509	0.00	0.00
ATOM	3086	O	ALA	X	203	34.932	44.461	47.375	0.00	0.00

ATOM	3087	N	SER	X	204	35.668	44.925	45.331	0.00	0.00
ATOM	3088	H	SER	X	204	36.379	44.734	44.640	0.00	0.00
ATOM	3089	CA	SER	X	204	34.741	45.985	44.995	0.00	0.00
ATOM	3090	HA	SER	X	204	34.872	46.788	45.720	0.00	0.00
ATOM	3091	CB	SER	X	204	34.976	46.596	43.573	0.00	0.00
ATOM	3092	HB2	SER	X	204	34.816	45.913	42.739	0.00	0.00
ATOM	3093	HB3	SER	X	204	34.198	47.326	43.351	0.00	0.00
ATOM	3094	OG	SER	X	204	36.180	47.302	43.439	0.00	0.00
ATOM	3095	HG	SER	X	204	36.819	46.701	43.049	0.00	0.00
ATOM	3096	C	SER	X	204	33.289	45.628	45.198	0.00	0.00
ATOM	3097	O	SER	X	204	32.543	46.412	45.744	0.00	0.00
ATOM	3098	N	VAL	X	205	32.866	44.501	44.723	0.00	0.00
ATOM	3099	H	VAL	X	205	33.606	43.952	44.310	0.00	0.00
ATOM	3100	CA	VAL	X	205	31.472	43.988	44.855	0.00	0.00
ATOM	3101	HA	VAL	X	205	30.721	44.696	44.503	0.00	0.00
ATOM	3102	CB	VAL	X	205	31.301	42.783	43.967	0.00	0.00
ATOM	3103	HB	VAL	X	205	32.081	42.036	44.112	0.00	0.00
ATOM	3104	CG1	VAL	X	205	30.008	42.049	44.258	0.00	0.00
ATOM	3105	HG11	VAL	X	205	29.197	42.770	44.364	0.00	0.00
ATOM	3106	HG12	VAL	X	205	29.790	41.255	43.544	0.00	0.00
ATOM	3107	HG13	VAL	X	205	30.162	41.637	45.255	0.00	0.00
ATOM	3108	CG2	VAL	X	205	31.271	43.353	42.548	0.00	0.00
ATOM	3109	HG21	VAL	X	205	30.600	44.204	42.430	0.00	0.00
ATOM	3110	HG22	VAL	X	205	31.017	42.596	41.806	0.00	0.00
ATOM	3111	HG23	VAL	X	205	32.271	43.656	42.236	0.00	0.00
ATOM	3112	C	VAL	X	205	31.150	43.766	46.301	0.00	0.00
ATOM	3113	O	VAL	X	205	29.979	43.862	46.703	0.00	0.00
ATOM	3114	N	GLY	X	206	32.215	43.408	47.071	0.00	0.00
ATOM	3115	H	GLY	X	206	33.120	43.551	46.646	0.00	0.00
ATOM	3116	CA	GLY	X	206	32.159	43.322	48.530	0.00	0.00
ATOM	3117	HA2	GLY	X	206	31.313	42.668	48.741	0.00	0.00
ATOM	3118	HA3	GLY	X	206	33.074	42.996	49.025	0.00	0.00
ATOM	3119	C	GLY	X	206	31.997	44.689	49.192	0.00	0.00
ATOM	3120	O	GLY	X	206	31.371	44.859	50.232	0.00	0.00
ATOM	3121	N	MET	X	207	32.620	45.765	48.617	0.00	0.00
ATOM	3122	H	MET	X	207	33.448	45.609	48.060	0.00	0.00
ATOM	3123	CA	MET	X	207	32.363	47.183	49.032	0.00	0.00
ATOM	3124	HA	MET	X	207	32.564	47.262	50.100	0.00	0.00
ATOM	3125	CB	MET	X	207	33.271	48.120	48.291	0.00	0.00
ATOM	3126	HB2	MET	X	207	33.116	48.118	47.212	0.00	0.00
ATOM	3127	HB3	MET	X	207	33.080	49.147	48.604	0.00	0.00
ATOM	3128	CG	MET	X	207	34.810	47.913	48.506	0.00	0.00
ATOM	3129	HG2	MET	X	207	35.136	46.968	48.070	0.00	0.00
ATOM	3130	HG3	MET	X	207	35.410	48.711	48.067	0.00	0.00
ATOM	3131	SD	MET	X	207	35.332	47.717	50.205	0.00	0.00
ATOM	3132	CE	MET	X	207	37.105	47.675	50.008	0.00	0.00
ATOM	3133	HE1	MET	X	207	37.256	46.753	49.446	0.00	0.00
ATOM	3134	HE2	MET	X	207	37.299	48.517	49.344	0.00	0.00
ATOM	3135	HE3	MET	X	207	37.648	47.736	50.951	0.00	0.00
ATOM	3136	C	MET	X	207	30.971	47.575	48.834	0.00	0.00
ATOM	3137	O	MET	X	207	30.388	48.305	49.672	0.00	0.00
ATOM	3138	N	HIE	X	208	30.234	47.181	47.800	0.00	0.00
ATOM	3139	H	HIE	X	208	30.731	46.633	47.113	0.00	0.00
ATOM	3140	CA	HIE	X	208	28.859	47.442	47.420	0.00	0.00
ATOM	3141	HA	HIE	X	208	28.758	48.510	47.618	0.00	0.00
ATOM	3142	CB	HIE	X	208	28.715	47.203	45.969	0.00	0.00
ATOM	3143	HB2	HIE	X	208	28.961	46.180	45.683	0.00	0.00
ATOM	3144	HB3	HIE	X	208	27.694	47.397	45.640	0.00	0.00
ATOM	3145	CG	HIE	X	208	29.511	48.137	45.074	0.00	0.00
ATOM	3146	ND1	HIE	X	208	29.759	49.506	45.377	0.00	0.00
ATOM	3147	CE1	HIE	X	208	30.405	49.914	44.311	0.00	0.00
ATOM	3148	HE1	HIE	X	208	30.881	50.876	44.189	0.00	0.00
ATOM	3149	NE2	HIE	X	208	30.649	48.938	43.404	0.00	0.00
ATOM	3150	HE2	HIE	X	208	31.332	49.067	42.672	0.00	0.00
ATOM	3151	CD2	HIE	X	208	29.973	47.811	43.846	0.00	0.00
ATOM	3152	HD2	HIE	X	208	29.926	46.824	43.411	0.00	0.00
ATOM	3153	C	HIE	X	208	27.774	46.697	48.329	0.00	0.00

ATOM	3154	O	HIE	X	208	26.666	47.234	48.674	0.00	0.00
ATOM	3155	N	LEU	X	209	28.191	45.485	48.720	0.00	0.00
ATOM	3156	H	LEU	X	209	29.146	45.268	48.475	0.00	0.00
ATOM	3157	CA	LEU	X	209	27.522	44.725	49.701	0.00	0.00
ATOM	3158	HA	LEU	X	209	26.456	44.592	49.518	0.00	0.00
ATOM	3159	CB	LEU	X	209	28.191	43.301	49.774	0.00	0.00
ATOM	3160	HB2	LEU	X	209	28.256	42.837	48.789	0.00	0.00
ATOM	3161	HB3	LEU	X	209	29.207	43.457	50.136	0.00	0.00
ATOM	3162	CG	LEU	X	209	27.451	42.341	50.625	0.00	0.00
ATOM	3163	HG	LEU	X	209	27.232	42.883	51.546	0.00	0.00
ATOM	3164	CD1	LEU	X	209	26.117	41.881	50.051	0.00	0.00
ATOM	3165	HD11	LEU	X	209	26.101	41.353	49.098	0.00	0.00
ATOM	3166	HD12	LEU	X	209	25.358	42.660	49.983	0.00	0.00
ATOM	3167	HD13	LEU	X	209	25.602	41.266	50.790	0.00	0.00
ATOM	3168	CD2	LEU	X	209	28.243	41.063	50.839	0.00	0.00
ATOM	3169	HD21	LEU	X	209	29.213	41.169	51.324	0.00	0.00
ATOM	3170	HD22	LEU	X	209	27.649	40.366	51.430	0.00	0.00
ATOM	3171	HD23	LEU	X	209	28.438	40.542	49.901	0.00	0.00
ATOM	3172	C	LEU	X	209	27.646	45.429	51.122	0.00	0.00
ATOM	3173	O	LEU	X	209	26.644	45.471	51.841	0.00	0.00
ATOM	3174	N	LEU	X	210	28.845	45.805	51.499	0.00	0.00
ATOM	3175	H	LEU	X	210	29.633	45.558	50.918	0.00	0.00
ATOM	3176	CA	LEU	X	210	29.087	46.527	52.778	0.00	0.00
ATOM	3177	HA	LEU	X	210	28.589	45.865	53.487	0.00	0.00
ATOM	3178	CB	LEU	X	210	30.564	46.443	53.121	0.00	0.00
ATOM	3179	HB2	LEU	X	210	30.938	45.442	52.907	0.00	0.00
ATOM	3180	HB3	LEU	X	210	31.028	47.159	52.443	0.00	0.00
ATOM	3181	CG	LEU	X	210	30.872	46.807	54.616	0.00	0.00
ATOM	3182	HG	LEU	X	210	30.470	47.803	54.803	0.00	0.00
ATOM	3183	CD1	LEU	X	210	30.119	45.882	55.643	0.00	0.00
ATOM	3184	HD11	LEU	X	210	30.452	44.860	55.465	0.00	0.00
ATOM	3185	HD12	LEU	X	210	29.047	46.015	55.494	0.00	0.00
ATOM	3186	HD13	LEU	X	210	30.430	45.974	56.684	0.00	0.00
ATOM	3187	CD2	LEU	X	210	32.390	46.605	54.911	0.00	0.00
ATOM	3188	HD21	LEU	X	210	32.793	45.641	54.603	0.00	0.00
ATOM	3189	HD22	LEU	X	210	32.917	47.288	54.245	0.00	0.00
ATOM	3190	HD23	LEU	X	210	32.678	46.877	55.927	0.00	0.00
ATOM	3191	C	LEU	X	210	28.384	47.934	52.717	0.00	0.00
ATOM	3192	O	LEU	X	210	27.439	48.193	53.504	0.00	0.00
ATOM	3193	N	SER	X	211	28.852	48.831	51.824	0.00	0.00
ATOM	3194	H	SER	X	211	29.558	48.581	51.146	0.00	0.00
ATOM	3195	CA	SER	X	211	28.329	50.234	51.789	0.00	0.00
ATOM	3196	HA	SER	X	211	28.546	50.574	52.802	0.00	0.00
ATOM	3197	CB	SER	X	211	29.192	50.944	50.809	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.227	50.695	51.041	0.00	0.00
ATOM	3199	HB3	SER	X	211	29.000	50.551	49.810	0.00	0.00
ATOM	3200	OG	SER	X	211	28.986	52.386	50.826	0.00	0.00
ATOM	3201	HG	SER	X	211	29.308	52.749	51.655	0.00	0.00
ATOM	3202	C	SER	X	211	26.839	50.265	51.426	0.00	0.00
ATOM	3203	O	SER	X	211	26.520	49.973	50.286	0.00	0.00
ATOM	3204	N	PRO	X	212	26.019	50.574	52.449	0.00	0.00
ATOM	3205	CD	PRO	X	212	26.420	51.172	53.730	0.00	0.00
ATOM	3206	HD2	PRO	X	212	27.009	52.075	53.576	0.00	0.00
ATOM	3207	HD3	PRO	X	212	27.042	50.629	54.442	0.00	0.00
ATOM	3208	CG	PRO	X	212	25.185	51.594	54.491	0.00	0.00
ATOM	3209	HG2	PRO	X	212	25.132	52.681	54.434	0.00	0.00
ATOM	3210	HG3	PRO	X	212	25.274	51.255	55.523	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.024	50.966	53.772	0.00	0.00
ATOM	3212	HB2	PRO	X	212	23.145	51.597	53.643	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.669	50.149	54.401	0.00	0.00
ATOM	3214	CA	PRO	X	212	24.533	50.491	52.385	0.00	0.00
ATOM	3215	HA	PRO	X	212	24.287	49.430	52.416	0.00	0.00
ATOM	3216	C	PRO	X	212	23.914	51.293	51.214	0.00	0.00
ATOM	3217	O	PRO	X	212	23.002	50.697	50.670	0.00	0.00
ATOM	3218	N	PRO	X	213	24.315	52.538	50.839	0.00	0.00
ATOM	3219	CD	PRO	X	213	25.249	53.449	51.457	0.00	0.00
ATOM	3220	HD2	PRO	X	213	26.281	53.145	51.287	0.00	0.00

ATOM	3221	HD3	PRO	X	213	24.886	53.422	52.485	0.00	0.00
ATOM	3222	CG	PRO	X	213	24.963	54.847	50.858	0.00	0.00
ATOM	3223	HG2	PRO	X	213	25.914	55.379	50.853	0.00	0.00
ATOM	3224	HG3	PRO	X	213	24.122	55.402	51.273	0.00	0.00
ATOM	3225	CB	PRO	X	213	24.539	54.539	49.488	0.00	0.00
ATOM	3226	HB2	PRO	X	213	25.347	54.386	48.772	0.00	0.00
ATOM	3227	HB3	PRO	X	213	23.894	55.307	49.060	0.00	0.00
ATOM	3228	CA	PRO	X	213	23.733	53.218	49.691	0.00	0.00
ATOM	3229	HA	PRO	X	213	22.675	53.440	49.831	0.00	0.00
ATOM	3230	C	PRO	X	213	23.924	52.406	48.330	0.00	0.00
ATOM	3231	O	PRO	X	213	23.111	52.522	47.417	0.00	0.00
ATOM	3232	N	SER	X	214	24.905	51.451	48.270	0.00	0.00
ATOM	3233	H	SER	X	214	25.483	51.279	49.080	0.00	0.00
ATOM	3234	CA	SER	X	214	25.108	50.422	47.248	0.00	0.00
ATOM	3235	HA	SER	X	214	24.781	50.867	46.308	0.00	0.00
ATOM	3236	CB	SER	X	214	26.560	49.858	47.077	0.00	0.00
ATOM	3237	HB2	SER	X	214	26.954	49.459	48.011	0.00	0.00
ATOM	3238	HB3	SER	X	214	26.419	48.992	46.431	0.00	0.00
ATOM	3239	OG	SER	X	214	27.373	50.798	46.517	0.00	0.00
ATOM	3240	HG	SER	X	214	28.072	50.388	46.002	0.00	0.00
ATOM	3241	C	SER	X	214	24.267	49.199	47.592	0.00	0.00
ATOM	3242	O	SER	X	214	23.893	48.414	46.689	0.00	0.00
ATOM	3243	N	ARG	X	215	24.055	48.855	48.818	0.00	0.00
ATOM	3244	H	ARG	X	215	24.394	49.501	49.517	0.00	0.00
ATOM	3245	CA	ARG	X	215	23.242	47.698	49.338	0.00	0.00
ATOM	3246	HA	ARG	X	215	23.564	46.757	48.894	0.00	0.00
ATOM	3247	CB	ARG	X	215	23.327	47.463	50.860	0.00	0.00
ATOM	3248	HB2	ARG	X	215	24.367	47.578	51.163	0.00	0.00
ATOM	3249	HB3	ARG	X	215	22.781	48.247	51.385	0.00	0.00
ATOM	3250	CG	ARG	X	215	22.675	46.103	51.240	0.00	0.00
ATOM	3251	HG2	ARG	X	215	21.599	46.273	51.211	0.00	0.00
ATOM	3252	HG3	ARG	X	215	22.988	45.312	50.559	0.00	0.00
ATOM	3253	CD	ARG	X	215	23.177	45.638	52.592	0.00	0.00
ATOM	3254	HD2	ARG	X	215	24.155	45.199	52.397	0.00	0.00
ATOM	3255	HD3	ARG	X	215	23.368	46.428	53.318	0.00	0.00
ATOM	3256	NE	ARG	X	215	22.240	44.687	53.179	0.00	0.00
ATOM	3257	HE	ARG	X	215	21.337	44.568	52.741	0.00	0.00
ATOM	3258	CZ	ARG	X	215	22.290	44.157	54.382	0.00	0.00
ATOM	3259	NH1	ARG	X	215	23.482	44.035	54.969	0.00	0.00
ATOM	3260	HH11	ARG	X	215	24.300	44.407	54.508	0.00	0.00
ATOM	3261	HH12	ARG	X	215	23.559	43.654	55.902	0.00	0.00
ATOM	3262	NH2	ARG	X	215	21.190	43.805	54.980	0.00	0.00
ATOM	3263	HH21	ARG	X	215	20.304	43.836	54.496	0.00	0.00
ATOM	3264	HH22	ARG	X	215	21.125	43.592	55.965	0.00	0.00
ATOM	3265	C	ARG	X	215	21.813	47.816	48.826	0.00	0.00
ATOM	3266	O	ARG	X	215	21.112	46.820	48.596	0.00	0.00
ATOM	3267	N	GLY	X	216	21.382	49.078	48.619	0.00	0.00
ATOM	3268	H	GLY	X	216	22.041	49.747	48.992	0.00	0.00
ATOM	3269	CA	GLY	X	216	20.122	49.533	48.064	0.00	0.00
ATOM	3270	HA2	GLY	X	216	19.232	49.096	48.517	0.00	0.00
ATOM	3271	HA3	GLY	X	216	20.007	50.604	48.236	0.00	0.00
ATOM	3272	C	GLY	X	216	19.984	49.333	46.519	0.00	0.00
ATOM	3273	O	GLY	X	216	18.928	49.667	45.988	0.00	0.00
ATOM	3274	N	LEU	X	217	21.060	48.842	45.794	0.00	0.00
ATOM	3275	H	LEU	X	217	21.870	48.517	46.303	0.00	0.00
ATOM	3276	CA	LEU	X	217	21.057	48.877	44.349	0.00	0.00
ATOM	3277	HA	LEU	X	217	20.151	49.411	44.060	0.00	0.00
ATOM	3278	CB	LEU	X	217	22.201	49.718	43.888	0.00	0.00
ATOM	3279	HB2	LEU	X	217	23.163	49.226	44.031	0.00	0.00
ATOM	3280	HB3	LEU	X	217	22.102	49.879	42.815	0.00	0.00
ATOM	3281	CG	LEU	X	217	22.261	51.197	44.428	0.00	0.00
ATOM	3282	HG	LEU	X	217	22.237	51.124	45.515	0.00	0.00
ATOM	3283	CD1	LEU	X	217	23.629	51.812	44.083	0.00	0.00
ATOM	3284	HD11	LEU	X	217	23.797	52.599	44.818	0.00	0.00
ATOM	3285	HD12	LEU	X	217	23.631	52.069	43.024	0.00	0.00
ATOM	3286	HD13	LEU	X	217	24.425	51.073	44.172	0.00	0.00
ATOM	3287	CD2	LEU	X	217	21.165	52.084	43.939	0.00	0.00

ATOM	3288	HD21	LEU	X	217	21.032	52.262	42.872	0.00	0.00
ATOM	3289	HD22	LEU	X	217	20.255	51.578	44.265	0.00	0.00
ATOM	3290	HD23	LEU	X	217	21.209	52.992	44.540	0.00	0.00
ATOM	3291	C	LEU	X	217	20.993	47.486	43.630	0.00	0.00
ATOM	3292	O	LEU	X	217	20.636	47.449	42.485	0.00	0.00
ATOM	3293	N	PHE	X	218	21.371	46.464	44.393	0.00	0.00
ATOM	3294	H	PHE	X	218	21.350	46.526	45.401	0.00	0.00
ATOM	3295	CA	PHE	X	218	21.345	45.000	43.874	0.00	0.00
ATOM	3296	HA	PHE	X	218	20.609	44.989	43.070	0.00	0.00
ATOM	3297	CB	PHE	X	218	22.749	44.730	43.367	0.00	0.00
ATOM	3298	HB2	PHE	X	218	22.760	43.876	42.690	0.00	0.00
ATOM	3299	HB3	PHE	X	218	23.048	45.592	42.771	0.00	0.00
ATOM	3300	CG	PHE	X	218	23.709	44.549	44.495	0.00	0.00
ATOM	3301	CD1	PHE	X	218	24.215	45.694	45.073	0.00	0.00
ATOM	3302	HD1	PHE	X	218	23.883	46.688	44.813	0.00	0.00
ATOM	3303	CE1	PHE	X	218	25.215	45.517	46.124	0.00	0.00
ATOM	3304	HE1	PHE	X	218	25.578	46.464	46.494	0.00	0.00
ATOM	3305	CZ	PHE	X	218	25.652	44.296	46.554	0.00	0.00
ATOM	3306	HZ	PHE	X	218	26.204	44.128	47.467	0.00	0.00
ATOM	3307	CE2	PHE	X	218	24.991	43.192	46.040	0.00	0.00
ATOM	3308	HE2	PHE	X	218	25.200	42.188	46.379	0.00	0.00
ATOM	3309	CD2	PHE	X	218	23.992	43.285	45.049	0.00	0.00
ATOM	3310	HD2	PHE	X	218	23.567	42.400	44.600	0.00	0.00
ATOM	3311	C	PHE	X	218	20.913	44.002	44.987	0.00	0.00
ATOM	3312	O	PHE	X	218	20.626	44.439	46.084	0.00	0.00
ATOM	3313	N	HIE	X	219	20.876	42.727	44.691	0.00	0.00
ATOM	3314	H	HIE	X	219	21.175	42.481	43.758	0.00	0.00
ATOM	3315	CA	HIE	X	219	20.180	41.670	45.385	0.00	0.00
ATOM	3316	HA	HIE	X	219	19.772	41.950	46.357	0.00	0.00
ATOM	3317	CB	HIE	X	219	19.031	41.126	44.437	0.00	0.00
ATOM	3318	HB2	HIE	X	219	19.485	40.580	43.610	0.00	0.00
ATOM	3319	HB3	HIE	X	219	18.314	40.569	45.039	0.00	0.00
ATOM	3320	CG	HIE	X	219	18.192	42.298	43.852	0.00	0.00
ATOM	3321	ND1	HIE	X	219	18.377	42.703	42.536	0.00	0.00
ATOM	3322	CE1	HIE	X	219	17.657	43.763	42.328	0.00	0.00
ATOM	3323	HE1	HIE	X	219	17.700	44.396	41.454	0.00	0.00
ATOM	3324	NE2	HIE	X	219	16.818	43.850	43.404	0.00	0.00
ATOM	3325	HE2	HIE	X	219	15.982	44.417	43.382	0.00	0.00
ATOM	3326	CD2	HIE	X	219	17.214	43.021	44.386	0.00	0.00
ATOM	3327	HD2	HIE	X	219	16.937	43.084	45.428	0.00	0.00
ATOM	3328	C	HIE	X	219	21.030	40.424	45.751	0.00	0.00
ATOM	3329	O	HIE	X	219	20.654	39.755	46.712	0.00	0.00
ATOM	3330	N	ARG	X	220	22.169	40.177	45.144	0.00	0.00
ATOM	3331	H	ARG	X	220	22.497	40.912	44.534	0.00	0.00
ATOM	3332	CA	ARG	X	220	23.061	39.098	45.398	0.00	0.00
ATOM	3333	HA	ARG	X	220	23.107	38.910	46.471	0.00	0.00
ATOM	3334	CB	ARG	X	220	22.697	37.790	44.711	0.00	0.00
ATOM	3335	HB2	ARG	X	220	22.837	37.874	43.634	0.00	0.00
ATOM	3336	HB3	ARG	X	220	23.388	37.051	45.118	0.00	0.00
ATOM	3337	CG	ARG	X	220	21.219	37.320	44.904	0.00	0.00
ATOM	3338	HG2	ARG	X	220	21.141	36.998	45.942	0.00	0.00
ATOM	3339	HG3	ARG	X	220	20.532	38.121	44.628	0.00	0.00
ATOM	3340	CD	ARG	X	220	20.864	36.129	43.990	0.00	0.00
ATOM	3341	HD2	ARG	X	220	20.816	36.468	42.956	0.00	0.00
ATOM	3342	HD3	ARG	X	220	21.618	35.359	44.155	0.00	0.00
ATOM	3343	NE	ARG	X	220	19.538	35.623	44.430	0.00	0.00
ATOM	3344	HE	ARG	X	220	19.398	35.378	45.400	0.00	0.00
ATOM	3345	CZ	ARG	X	220	18.388	35.651	43.782	0.00	0.00
ATOM	3346	NH1	ARG	X	220	18.267	35.967	42.517	0.00	0.00
ATOM	3347	HH11	ARG	X	220	19.056	36.065	41.894	0.00	0.00
ATOM	3348	HH12	ARG	X	220	17.372	35.768	42.094	0.00	0.00
ATOM	3349	NH2	ARG	X	220	17.269	35.384	44.410	0.00	0.00
ATOM	3350	HH21	ARG	X	220	17.276	35.292	45.416	0.00	0.00
ATOM	3351	HH22	ARG	X	220	16.393	35.207	43.938	0.00	0.00
ATOM	3352	C	ARG	X	220	24.534	39.494	44.959	0.00	0.00
ATOM	3353	O	ARG	X	220	24.749	40.349	44.075	0.00	0.00
ATOM	3354	N	ALA	X	221	25.619	38.869	45.454	0.00	0.00

ATOM	3355	H	ALA	X	221	25.508	38.182	46.185	0.00	0.00
ATOM	3356	CA	ALA	X	221	26.902	39.019	44.900	0.00	0.00
ATOM	3357	HA	ALA	X	221	26.920	39.648	44.010	0.00	0.00
ATOM	3358	CB	ALA	X	221	27.695	39.751	46.020	0.00	0.00
ATOM	3359	HB1	ALA	X	221	28.730	39.895	45.708	0.00	0.00
ATOM	3360	HB2	ALA	X	221	27.724	39.233	46.978	0.00	0.00
ATOM	3361	HB3	ALA	X	221	27.257	40.727	46.228	0.00	0.00
ATOM	3362	C	ALA	X	221	27.543	37.642	44.574	0.00	0.00
ATOM	3363	O	ALA	X	221	27.164	36.565	45.010	0.00	0.00
ATOM	3364	N	VAL	X	222	28.490	37.735	43.618	0.00	0.00
ATOM	3365	H	VAL	X	222	28.660	38.640	43.204	0.00	0.00
ATOM	3366	CA	VAL	X	222	29.463	36.607	43.267	0.00	0.00
ATOM	3367	HA	VAL	X	222	29.341	35.743	43.920	0.00	0.00
ATOM	3368	CB	VAL	X	222	29.272	36.104	41.852	0.00	0.00
ATOM	3369	HB	VAL	X	222	29.396	36.879	41.096	0.00	0.00
ATOM	3370	CG1	VAL	X	222	30.403	35.113	41.555	0.00	0.00
ATOM	3371	HG11	VAL	X	222	30.077	34.394	40.804	0.00	0.00
ATOM	3372	HG12	VAL	X	222	31.295	35.562	41.121	0.00	0.00
ATOM	3373	HG13	VAL	X	222	30.632	34.580	42.478	0.00	0.00
ATOM	3374	CG2	VAL	X	222	28.027	35.354	41.655	0.00	0.00
ATOM	3375	HG21	VAL	X	222	27.892	34.509	42.329	0.00	0.00
ATOM	3376	HG22	VAL	X	222	27.971	34.918	40.658	0.00	0.00
ATOM	3377	HG23	VAL	X	222	27.185	36.036	41.783	0.00	0.00
ATOM	3378	C	VAL	X	222	30.920	37.102	43.386	0.00	0.00
ATOM	3379	O	VAL	X	222	31.241	38.094	42.757	0.00	0.00
ATOM	3380	N	LEU	X	223	31.752	36.490	44.277	0.00	0.00
ATOM	3381	H	LEU	X	223	31.382	35.762	44.872	0.00	0.00
ATOM	3382	CA	LEU	X	223	33.140	36.952	44.574	0.00	0.00
ATOM	3383	HA	LEU	X	223	33.359	37.731	43.844	0.00	0.00
ATOM	3384	CB	LEU	X	223	33.281	37.470	46.027	0.00	0.00
ATOM	3385	HB2	LEU	X	223	32.854	36.710	46.680	0.00	0.00
ATOM	3386	HB3	LEU	X	223	34.330	37.350	46.297	0.00	0.00
ATOM	3387	CG	LEU	X	223	32.664	38.779	46.591	0.00	0.00
ATOM	3388	HG	LEU	X	223	32.800	39.552	45.835	0.00	0.00
ATOM	3389	CD1	LEU	X	223	31.085	38.552	46.529	0.00	0.00
ATOM	3390	HD11	LEU	X	223	30.789	37.638	47.042	0.00	0.00
ATOM	3391	HD12	LEU	X	223	30.731	38.403	45.509	0.00	0.00
ATOM	3392	HD13	LEU	X	223	30.609	39.450	46.922	0.00	0.00
ATOM	3393	CD2	LEU	X	223	33.194	39.239	47.931	0.00	0.00
ATOM	3394	HD21	LEU	X	223	34.271	39.286	48.095	0.00	0.00
ATOM	3395	HD22	LEU	X	223	32.843	40.228	48.225	0.00	0.00
ATOM	3396	HD23	LEU	X	223	32.824	38.628	48.754	0.00	0.00
ATOM	3397	C	LEU	X	223	34.163	35.909	44.231	0.00	0.00
ATOM	3398	O	LEU	X	223	34.070	34.799	44.849	0.00	0.00
ATOM	3399	N	GLN	X	224	35.183	36.233	43.433	0.00	0.00
ATOM	3400	H	GLN	X	224	35.125	37.072	42.873	0.00	0.00
ATOM	3401	CA	GLN	X	224	36.177	35.130	43.052	0.00	0.00
ATOM	3402	HA	GLN	X	224	35.986	34.285	43.714	0.00	0.00
ATOM	3403	CB	GLN	X	224	35.921	34.710	41.600	0.00	0.00
ATOM	3404	HB2	GLN	X	224	36.084	35.618	41.020	0.00	0.00
ATOM	3405	HB3	GLN	X	224	36.651	33.954	41.311	0.00	0.00
ATOM	3406	CG	GLN	X	224	34.539	34.124	41.330	0.00	0.00
ATOM	3407	HG2	GLN	X	224	34.274	33.337	42.037	0.00	0.00
ATOM	3408	HG3	GLN	X	224	33.848	34.962	41.431	0.00	0.00
ATOM	3409	CD	GLN	X	224	34.527	33.613	39.913	0.00	0.00
ATOM	3410	OE1	GLN	X	224	33.511	33.618	39.296	0.00	0.00
ATOM	3411	NE2	GLN	X	224	35.540	32.942	39.337	0.00	0.00
ATOM	3412	HE21	GLN	X	224	35.343	32.406	38.503	0.00	0.00
ATOM	3413	HE22	GLN	X	224	36.446	32.911	39.781	0.00	0.00
ATOM	3414	C	GLN	X	224	37.588	35.637	43.339	0.00	0.00
ATOM	3415	O	GLN	X	224	37.937	36.803	43.068	0.00	0.00
ATOM	3416	N	SER	X	225	38.419	34.852	44.053	0.00	0.00
ATOM	3417	H	SER	X	225	38.055	33.954	44.337	0.00	0.00
ATOM	3418	CA	SER	X	225	39.820	35.234	44.282	0.00	0.00
ATOM	3419	HA	SER	X	225	40.241	34.511	44.980	0.00	0.00
ATOM	3420	CB	SER	X	225	40.667	35.287	42.947	0.00	0.00
ATOM	3421	HB2	SER	X	225	40.176	35.884	42.179	0.00	0.00

ATOM	3422	HB3	SER	X	225	41.695	35.586	43.154	0.00	0.00
ATOM	3423	OG	SER	X	225	40.758	33.979	42.431	0.00	0.00
ATOM	3424	HG	SER	X	225	41.055	33.426	43.157	0.00	0.00
ATOM	3425	C	SER	X	225	40.039	36.538	45.015	0.00	0.00
ATOM	3426	O	SER	X	225	41.076	37.126	44.908	0.00	0.00
ATOM	3427	N	GLY	X	226	39.010	37.016	45.718	0.00	0.00
ATOM	3428	H	GLY	X	226	38.143	36.504	45.646	0.00	0.00
ATOM	3429	CA	GLY	X	226	39.080	38.282	46.416	0.00	0.00
ATOM	3430	HA2	GLY	X	226	40.055	38.489	46.857	0.00	0.00
ATOM	3431	HA3	GLY	X	226	39.020	39.130	45.734	0.00	0.00
ATOM	3432	C	GLY	X	226	37.941	38.536	47.476	0.00	0.00
ATOM	3433	O	GLY	X	226	36.868	37.991	47.412	0.00	0.00
ATOM	3434	N	ALA	X	227	38.333	39.390	48.496	0.00	0.00
ATOM	3435	H	ALA	X	227	39.181	39.937	48.466	0.00	0.00
ATOM	3436	CA	ALA	X	227	37.470	39.629	49.676	0.00	0.00
ATOM	3437	HA	ALA	X	227	36.428	39.584	49.358	0.00	0.00
ATOM	3438	CB	ALA	X	227	37.875	38.583	50.763	0.00	0.00
ATOM	3439	HB1	ALA	X	227	37.244	38.542	51.651	0.00	0.00
ATOM	3440	HB2	ALA	X	227	38.853	38.818	51.184	0.00	0.00
ATOM	3441	HB3	ALA	X	227	37.843	37.533	50.470	0.00	0.00
ATOM	3442	C	ALA	X	227	37.544	41.109	50.113	0.00	0.00
ATOM	3443	O	ALA	X	227	38.712	41.552	50.180	0.00	0.00
ATOM	3444	N	PRO	X	228	36.522	41.895	50.494	0.00	0.00
ATOM	3445	CD	PRO	X	228	35.108	41.501	50.577	0.00	0.00
ATOM	3446	HD2	PRO	X	228	35.004	40.482	50.950	0.00	0.00
ATOM	3447	HD3	PRO	X	228	34.576	41.682	49.643	0.00	0.00
ATOM	3448	CG	PRO	X	228	34.611	42.340	51.666	0.00	0.00
ATOM	3449	HG2	PRO	X	228	34.929	41.979	52.644	0.00	0.00
ATOM	3450	HG3	PRO	X	228	33.533	42.501	51.647	0.00	0.00
ATOM	3451	CB	PRO	X	228	35.288	43.713	51.352	0.00	0.00
ATOM	3452	HB2	PRO	X	228	35.249	44.397	52.200	0.00	0.00
ATOM	3453	HB3	PRO	X	228	34.779	44.176	50.506	0.00	0.00
ATOM	3454	CA	PRO	X	228	36.655	43.304	50.947	0.00	0.00
ATOM	3455	HA	PRO	X	228	36.954	43.966	50.133	0.00	0.00
ATOM	3456	C	PRO	X	228	37.562	43.472	52.213	0.00	0.00
ATOM	3457	O	PRO	X	228	38.215	44.451	52.464	0.00	0.00
ATOM	3458	N	ASN	X	229	37.581	42.420	53.030	0.00	0.00
ATOM	3459	H	ASN	X	229	36.905	41.703	52.809	0.00	0.00
ATOM	3460	CA	ASN	X	229	38.310	42.384	54.296	0.00	0.00
ATOM	3461	HA	ASN	X	229	38.249	43.365	54.768	0.00	0.00
ATOM	3462	CB	ASN	X	229	37.570	41.484	55.244	0.00	0.00
ATOM	3463	HB2	ASN	X	229	38.181	41.458	56.146	0.00	0.00
ATOM	3464	HB3	ASN	X	229	36.601	41.963	55.380	0.00	0.00
ATOM	3465	CG	ASN	X	229	37.268	40.072	54.784	0.00	0.00
ATOM	3466	OD1	ASN	X	229	36.740	39.831	53.720	0.00	0.00
ATOM	3467	ND2	ASN	X	229	37.639	39.058	55.552	0.00	0.00
ATOM	3468	HD21	ASN	X	229	37.410	38.131	55.221	0.00	0.00
ATOM	3469	HD22	ASN	X	229	38.262	39.182	56.337	0.00	0.00
ATOM	3470	C	ASN	X	229	39.735	41.951	54.085	0.00	0.00
ATOM	3471	O	ASN	X	229	40.516	41.860	55.041	0.00	0.00
ATOM	3472	N	GLY	X	230	40.219	41.689	52.845	0.00	0.00
ATOM	3473	H	GLY	X	230	39.594	41.751	52.054	0.00	0.00
ATOM	3474	CA	GLY	X	230	41.644	41.325	52.658	0.00	0.00
ATOM	3475	HA2	GLY	X	230	41.838	40.436	53.259	0.00	0.00
ATOM	3476	HA3	GLY	X	230	41.913	41.021	51.647	0.00	0.00
ATOM	3477	C	GLY	X	230	42.662	42.480	53.063	0.00	0.00
ATOM	3478	O	GLY	X	230	42.407	43.649	52.760	0.00	0.00
ATOM	3479	N	PRO	X	231	43.776	42.094	53.736	0.00	0.00
ATOM	3480	CD	PRO	X	231	44.293	40.763	53.931	0.00	0.00
ATOM	3481	HD2	PRO	X	231	44.387	40.209	52.997	0.00	0.00
ATOM	3482	HD3	PRO	X	231	43.590	40.260	54.595	0.00	0.00
ATOM	3483	CG	PRO	X	231	45.691	40.917	54.608	0.00	0.00
ATOM	3484	HG2	PRO	X	231	46.510	40.847	53.892	0.00	0.00
ATOM	3485	HG3	PRO	X	231	45.919	40.138	55.336	0.00	0.00
ATOM	3486	CB	PRO	X	231	45.693	42.322	55.131	0.00	0.00
ATOM	3487	HB2	PRO	X	231	46.660	42.823	55.162	0.00	0.00
ATOM	3488	HB3	PRO	X	231	45.244	42.309	56.124	0.00	0.00

ATOM	3489	CA	PRO	X	231	44.764	43.083	54.136	0.00	0.00
ATOM	3490	HA	PRO	X	231	44.232	43.894	54.633	0.00	0.00
ATOM	3491	C	PRO	X	231	45.542	43.786	52.987	0.00	0.00
ATOM	3492	O	PRO	X	231	45.971	44.939	53.162	0.00	0.00
ATOM	3493	N	TRP	X	232	45.682	43.195	51.832	0.00	0.00
ATOM	3494	H	TRP	X	232	45.429	42.230	51.673	0.00	0.00
ATOM	3495	CA	TRP	X	232	45.956	43.928	50.637	0.00	0.00
ATOM	3496	HA	TRP	X	232	46.827	44.583	50.671	0.00	0.00
ATOM	3497	CB	TRP	X	232	46.352	42.943	49.565	0.00	0.00
ATOM	3498	HB2	TRP	X	232	46.831	43.461	48.734	0.00	0.00
ATOM	3499	HB3	TRP	X	232	47.078	42.267	50.016	0.00	0.00
ATOM	3500	CG	TRP	X	232	45.262	42.052	49.084	0.00	0.00
ATOM	3501	CD1	TRP	X	232	44.985	40.855	49.593	0.00	0.00
ATOM	3502	HD1	TRP	X	232	45.440	40.416	50.469	0.00	0.00
ATOM	3503	NE1	TRP	X	232	43.878	40.350	48.975	0.00	0.00
ATOM	3504	HE1	TRP	X	232	43.413	39.523	49.322	0.00	0.00
ATOM	3505	CE2	TRP	X	232	43.363	41.179	47.962	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	42.207	41.152	47.087	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	41.620	40.245	47.077	0.00	0.00
ATOM	3508	CH2	TRP	X	232	42.018	42.253	46.240	0.00	0.00
ATOM	3509	HH2	TRP	X	232	41.259	42.321	45.474	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	43.005	43.324	46.175	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	42.776	44.143	45.509	0.00	0.00
ATOM	3512	CE3	TRP	X	232	44.081	43.286	47.093	0.00	0.00
ATOM	3513	HE3	TRP	X	232	44.640	44.210	47.089	0.00	0.00
ATOM	3514	CD2	TRP	X	232	44.349	42.206	47.995	0.00	0.00
ATOM	3515	C	TRP	X	232	44.877	44.872	50.086	0.00	0.00
ATOM	3516	O	TRP	X	232	45.285	45.843	49.441	0.00	0.00
ATOM	3517	N	ALA	X	233	43.534	44.674	50.291	0.00	0.00
ATOM	3518	H	ALA	X	233	43.331	43.915	50.925	0.00	0.00
ATOM	3519	CA	ALA	X	233	42.395	45.362	49.682	0.00	0.00
ATOM	3520	HA	ALA	X	233	42.575	45.589	48.631	0.00	0.00
ATOM	3521	CB	ALA	X	233	41.100	44.393	49.796	0.00	0.00
ATOM	3522	HB1	ALA	X	233	40.828	44.312	50.848	0.00	0.00
ATOM	3523	HB2	ALA	X	233	41.199	43.451	49.256	0.00	0.00
ATOM	3524	HB3	ALA	X	233	40.358	45.007	49.287	0.00	0.00
ATOM	3525	C	ALA	X	233	42.066	46.765	50.278	0.00	0.00
ATOM	3526	O	ALA	X	233	41.158	47.354	49.701	0.00	0.00
ATOM	3527	N	THR	X	234	42.724	47.253	51.361	0.00	0.00
ATOM	3528	H	THR	X	234	43.299	46.698	51.979	0.00	0.00
ATOM	3529	CA	THR	X	234	42.436	48.592	51.851	0.00	0.00
ATOM	3530	HA	THR	X	234	41.950	49.129	51.036	0.00	0.00
ATOM	3531	CB	THR	X	234	41.443	48.586	53.012	0.00	0.00
ATOM	3532	HB	THR	X	234	41.247	49.599	53.363	0.00	0.00
ATOM	3533	CG2	THR	X	234	40.045	48.094	52.473	0.00	0.00
ATOM	3534	HG21	THR	X	234	39.816	48.842	51.713	0.00	0.00
ATOM	3535	HG22	THR	X	234	39.342	48.199	53.299	0.00	0.00
ATOM	3536	HG23	THR	X	234	40.044	47.069	52.101	0.00	0.00
ATOM	3537	OG1	THR	X	234	41.853	47.814	54.198	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.751	48.120	54.345	0.00	0.00
ATOM	3539	C	THR	X	234	43.770	49.284	52.266	0.00	0.00
ATOM	3540	O	THR	X	234	44.804	48.555	52.470	0.00	0.00
ATOM	3541	N	VAL	X	235	43.752	50.592	52.493	0.00	0.00
ATOM	3542	H	VAL	X	235	42.998	51.126	52.086	0.00	0.00
ATOM	3543	CA	VAL	X	235	44.821	51.422	53.175	0.00	0.00
ATOM	3544	HA	VAL	X	235	45.393	50.668	53.717	0.00	0.00
ATOM	3545	CB	VAL	X	235	45.652	52.152	52.099	0.00	0.00
ATOM	3546	HB	VAL	X	235	46.064	51.491	51.337	0.00	0.00
ATOM	3547	CG1	VAL	X	235	44.921	53.220	51.197	0.00	0.00
ATOM	3548	HG11	VAL	X	235	44.567	54.016	51.852	0.00	0.00
ATOM	3549	HG12	VAL	X	235	45.608	53.629	50.455	0.00	0.00
ATOM	3550	HG13	VAL	X	235	44.092	52.766	50.656	0.00	0.00
ATOM	3551	CG2	VAL	X	235	46.889	52.864	52.671	0.00	0.00
ATOM	3552	HG21	VAL	X	235	46.549	53.702	53.281	0.00	0.00
ATOM	3553	HG22	VAL	X	235	47.522	53.297	51.896	0.00	0.00
ATOM	3554	HG23	VAL	X	235	47.363	52.164	53.359	0.00	0.00
ATOM	3555	C	VAL	X	235	44.193	52.531	54.175	0.00	0.00

ATOM	3556	O	VAL	X	235	43.080	53.036	54.085	0.00	0.00
ATOM	3557	N	GLY	X	236	44.909	52.766	55.313	0.00	0.00
ATOM	3558	H	GLY	X	236	45.860	52.425	55.340	0.00	0.00
ATOM	3559	CA	GLY	X	236	44.524	53.787	56.287	0.00	0.00
ATOM	3560	HA2	GLY	X	236	43.463	53.657	56.502	0.00	0.00
ATOM	3561	HA3	GLY	X	236	45.002	53.573	57.243	0.00	0.00
ATOM	3562	C	GLY	X	236	44.776	55.174	55.813	0.00	0.00
ATOM	3563	O	GLY	X	236	45.688	55.395	54.994	0.00	0.00
ATOM	3564	N	MET	X	237	44.091	56.224	56.372	0.00	0.00
ATOM	3565	H	MET	X	237	43.506	55.980	57.158	0.00	0.00
ATOM	3566	CA	MET	X	237	44.389	57.650	56.176	0.00	0.00
ATOM	3567	HA	MET	X	237	43.908	57.989	55.259	0.00	0.00
ATOM	3568	CB	MET	X	237	43.789	58.525	57.354	0.00	0.00
ATOM	3569	HB2	MET	X	237	44.306	58.409	58.306	0.00	0.00
ATOM	3570	HB3	MET	X	237	44.154	59.530	57.141	0.00	0.00
ATOM	3571	CG	MET	X	237	42.279	58.459	57.572	0.00	0.00
ATOM	3572	HG2	MET	X	237	41.631	58.276	56.715	0.00	0.00
ATOM	3573	HG3	MET	X	237	42.033	57.647	58.256	0.00	0.00
ATOM	3574	SD	MET	X	237	41.704	59.961	58.403	0.00	0.00
ATOM	3575	CE	MET	X	237	42.634	59.789	59.923	0.00	0.00
ATOM	3576	HE1	MET	X	237	42.532	60.734	60.458	0.00	0.00
ATOM	3577	HE2	MET	X	237	42.309	58.945	60.531	0.00	0.00
ATOM	3578	HE3	MET	X	237	43.711	59.724	59.766	0.00	0.00
ATOM	3579	C	MET	X	237	45.869	57.936	56.127	0.00	0.00
ATOM	3580	O	MET	X	237	46.147	58.781	55.280	0.00	0.00
ATOM	3581	N	GLY	X	238	46.737	57.372	56.986	0.00	0.00
ATOM	3582	H	GLY	X	238	46.351	56.838	57.752	0.00	0.00
ATOM	3583	CA	GLY	X	238	48.186	57.597	56.920	0.00	0.00
ATOM	3584	HA2	GLY	X	238	48.260	58.662	57.139	0.00	0.00
ATOM	3585	HA3	GLY	X	238	48.770	56.936	57.560	0.00	0.00
ATOM	3586	C	GLY	X	238	48.798	57.404	55.508	0.00	0.00
ATOM	3587	O	GLY	X	238	49.278	58.390	54.923	0.00	0.00
ATOM	3588	N	GLU	X	239	48.951	56.125	55.007	0.00	0.00
ATOM	3589	H	GLU	X	239	48.436	55.402	55.489	0.00	0.00
ATOM	3590	CA	GLU	X	239	49.712	55.811	53.772	0.00	0.00
ATOM	3591	HA	GLU	X	239	50.707	56.250	53.846	0.00	0.00
ATOM	3592	CB	GLU	X	239	49.958	54.290	53.604	0.00	0.00
ATOM	3593	HB2	GLU	X	239	49.127	53.730	54.033	0.00	0.00
ATOM	3594	HB3	GLU	X	239	50.230	54.045	52.577	0.00	0.00
ATOM	3595	CG	GLU	X	239	51.081	53.635	54.365	0.00	0.00
ATOM	3596	HG2	GLU	X	239	50.788	53.732	55.411	0.00	0.00
ATOM	3597	HG3	GLU	X	239	51.157	52.559	54.211	0.00	0.00
ATOM	3598	CD	GLU	X	239	52.403	54.236	54.119	0.00	0.00
ATOM	3599	OE1	GLU	X	239	53.089	53.781	53.191	0.00	0.00
ATOM	3600	OE2	GLU	X	239	52.819	55.129	54.917	0.00	0.00
ATOM	3601	C	GLU	X	239	49.139	56.355	52.424	0.00	0.00
ATOM	3602	O	GLU	X	239	49.895	56.737	51.525	0.00	0.00
ATOM	3603	N	ALA	X	240	47.815	56.399	52.408	0.00	0.00
ATOM	3604	H	ALA	X	240	47.339	56.019	53.214	0.00	0.00
ATOM	3605	CA	ALA	X	240	47.093	57.256	51.398	0.00	0.00
ATOM	3606	HA	ALA	X	240	47.114	56.866	50.381	0.00	0.00
ATOM	3607	CB	ALA	X	240	45.650	57.319	51.956	0.00	0.00
ATOM	3608	HB1	ALA	X	240	45.636	57.797	52.936	0.00	0.00
ATOM	3609	HB2	ALA	X	240	45.316	56.284	52.021	0.00	0.00
ATOM	3610	HB3	ALA	X	240	45.003	57.873	51.276	0.00	0.00
ATOM	3611	C	ALA	X	240	47.764	58.711	51.349	0.00	0.00
ATOM	3612	O	ALA	X	240	48.253	59.138	50.257	0.00	0.00
ATOM	3613	N	ARG	X	241	47.696	59.437	52.530	0.00	0.00
ATOM	3614	H	ARG	X	241	47.093	59.099	53.267	0.00	0.00
ATOM	3615	CA	ARG	X	241	48.231	60.878	52.657	0.00	0.00
ATOM	3616	HA	ARG	X	241	47.646	61.503	51.982	0.00	0.00
ATOM	3617	CB	ARG	X	241	48.014	61.465	54.064	0.00	0.00
ATOM	3618	HB2	ARG	X	241	47.094	61.068	54.494	0.00	0.00
ATOM	3619	HB3	ARG	X	241	48.777	61.110	54.757	0.00	0.00
ATOM	3620	CG	ARG	X	241	48.024	63.025	54.132	0.00	0.00
ATOM	3621	HG2	ARG	X	241	48.979	63.400	53.763	0.00	0.00
ATOM	3622	HG3	ARG	X	241	47.227	63.403	53.492	0.00	0.00

ATOM	3623	CD	ARG	X	241	47.956	63.555	55.614	0.00	0.00
ATOM	3624	HD2	ARG	X	241	48.804	63.085	56.110	0.00	0.00
ATOM	3625	HD3	ARG	X	241	48.050	64.641	55.641	0.00	0.00
ATOM	3626	NE	ARG	X	241	46.688	63.231	56.235	0.00	0.00
ATOM	3627	HE	ARG	X	241	45.847	63.790	56.196	0.00	0.00
ATOM	3628	CZ	ARG	X	241	46.505	62.272	57.130	0.00	0.00
ATOM	3629	NH1	ARG	X	241	47.525	61.590	57.657	0.00	0.00
ATOM	3630	HH11	ARG	X	241	48.467	61.785	57.350	0.00	0.00
ATOM	3631	HH12	ARG	X	241	47.253	60.955	58.394	0.00	0.00
ATOM	3632	NH2	ARG	X	241	45.225	62.081	57.549	0.00	0.00
ATOM	3633	HH21	ARG	X	241	44.465	62.505	57.036	0.00	0.00
ATOM	3634	HH22	ARG	X	241	45.113	61.577	58.417	0.00	0.00
ATOM	3635	C	ARG	X	241	49.714	61.029	52.193	0.00	0.00
ATOM	3636	O	ARG	X	241	50.161	61.874	51.437	0.00	0.00
ATOM	3637	N	ARG	X	242	50.609	60.187	52.764	0.00	0.00
ATOM	3638	H	ARG	X	242	50.275	59.497	53.422	0.00	0.00
ATOM	3639	CA	ARG	X	242	52.046	60.075	52.520	0.00	0.00
ATOM	3640	HA	ARG	X	242	52.464	61.078	52.610	0.00	0.00
ATOM	3641	CB	ARG	X	242	52.745	59.166	53.523	0.00	0.00
ATOM	3642	HB2	ARG	X	242	52.326	59.462	54.485	0.00	0.00
ATOM	3643	HB3	ARG	X	242	52.620	58.100	53.331	0.00	0.00
ATOM	3644	CG	ARG	X	242	54.204	59.501	53.564	0.00	0.00
ATOM	3645	HG2	ARG	X	242	54.712	59.720	52.626	0.00	0.00
ATOM	3646	HG3	ARG	X	242	54.321	60.365	54.219	0.00	0.00
ATOM	3647	CD	ARG	X	242	54.956	58.291	54.252	0.00	0.00
ATOM	3648	HD2	ARG	X	242	56.000	58.603	54.277	0.00	0.00
ATOM	3649	HD3	ARG	X	242	54.505	58.274	55.245	0.00	0.00
ATOM	3650	NE	ARG	X	242	54.783	57.033	53.596	0.00	0.00
ATOM	3651	HE	ARG	X	242	54.348	56.289	54.122	0.00	0.00
ATOM	3652	CZ	ARG	X	242	55.194	56.690	52.331	0.00	0.00
ATOM	3653	NH1	ARG	X	242	55.947	57.500	51.627	0.00	0.00
ATOM	3654	HH11	ARG	X	242	56.230	58.391	52.010	0.00	0.00
ATOM	3655	HH12	ARG	X	242	56.335	57.139	50.768	0.00	0.00
ATOM	3656	NH2	ARG	X	242	54.826	55.598	51.750	0.00	0.00
ATOM	3657	HH21	ARG	X	242	54.227	54.956	52.249	0.00	0.00
ATOM	3658	HH22	ARG	X	242	55.054	55.497	50.772	0.00	0.00
ATOM	3659	C	ARG	X	242	52.449	59.697	51.083	0.00	0.00
ATOM	3660	O	ARG	X	242	53.232	60.461	50.557	0.00	0.00
ATOM	3661	N	ARG	X	243	51.886	58.702	50.487	0.00	0.00
ATOM	3662	H	ARG	X	243	51.103	58.265	50.952	0.00	0.00
ATOM	3663	CA	ARG	X	243	52.098	58.362	49.098	0.00	0.00
ATOM	3664	HA	ARG	X	243	53.161	58.136	49.009	0.00	0.00
ATOM	3665	CB	ARG	X	243	51.385	57.026	48.729	0.00	0.00
ATOM	3666	HB2	ARG	X	243	50.352	57.095	49.073	0.00	0.00
ATOM	3667	HB3	ARG	X	243	51.460	56.947	47.645	0.00	0.00
ATOM	3668	CG	ARG	X	243	52.093	55.905	49.458	0.00	0.00
ATOM	3669	HG2	ARG	X	243	53.141	55.857	49.161	0.00	0.00
ATOM	3670	HG3	ARG	X	243	52.169	56.054	50.535	0.00	0.00
ATOM	3671	CD	ARG	X	243	51.410	54.598	49.121	0.00	0.00
ATOM	3672	HD2	ARG	X	243	50.354	54.837	49.243	0.00	0.00
ATOM	3673	HD3	ARG	X	243	51.555	54.211	48.112	0.00	0.00
ATOM	3674	NE	ARG	X	243	51.689	53.504	50.090	0.00	0.00
ATOM	3675	HE	ARG	X	243	52.534	53.644	50.626	0.00	0.00
ATOM	3676	CZ	ARG	X	243	50.999	52.361	50.157	0.00	0.00
ATOM	3677	NH1	ARG	X	243	50.101	51.974	49.276	0.00	0.00
ATOM	3678	HH11	ARG	X	243	49.924	52.522	48.446	0.00	0.00
ATOM	3679	HH12	ARG	X	243	49.555	51.128	49.354	0.00	0.00
ATOM	3680	NH2	ARG	X	243	51.275	51.735	51.242	0.00	0.00
ATOM	3681	HH21	ARG	X	243	51.962	52.131	51.869	0.00	0.00
ATOM	3682	HH22	ARG	X	243	50.930	50.849	51.582	0.00	0.00
ATOM	3683	C	ARG	X	243	51.705	59.467	48.116	0.00	0.00
ATOM	3684	O	ARG	X	243	52.427	59.855	47.272	0.00	0.00
ATOM	3685	N	ALA	X	244	50.474	60.060	48.293	0.00	0.00
ATOM	3686	H	ALA	X	244	49.889	59.850	49.089	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.978	61.141	47.464	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.900	60.814	46.427	0.00	0.00
ATOM	3689	CB	ALA	X	244	48.575	61.594	47.941	0.00	0.00

ATOM	3690	HB1	ALA	X	244	48.128	62.362	47.310	0.00	0.00
ATOM	3691	HB2	ALA	X	244	48.565	61.805	49.011	0.00	0.00
ATOM	3692	HB3	ALA	X	244	47.932	60.714	47.973	0.00	0.00
ATOM	3693	C	ALA	X	244	50.974	62.396	47.506	0.00	0.00
ATOM	3694	O	ALA	X	244	51.315	62.968	46.444	0.00	0.00
ATOM	3695	N	THR	X	245	51.511	62.653	48.673	0.00	0.00
ATOM	3696	H	THR	X	245	51.124	62.077	49.406	0.00	0.00
ATOM	3697	CA	THR	X	245	52.495	63.643	49.080	0.00	0.00
ATOM	3698	HA	THR	X	245	52.146	64.606	48.707	0.00	0.00
ATOM	3699	CB	THR	X	245	52.713	63.767	50.605	0.00	0.00
ATOM	3700	HB	THR	X	245	53.003	62.795	51.003	0.00	0.00
ATOM	3701	CG2	THR	X	245	53.893	64.712	50.955	0.00	0.00
ATOM	3702	HG21	THR	X	245	53.729	65.682	50.484	0.00	0.00
ATOM	3703	HG22	THR	X	245	54.821	64.244	50.627	0.00	0.00
ATOM	3704	HG23	THR	X	245	53.824	64.882	52.030	0.00	0.00
ATOM	3705	OG1	THR	X	245	51.588	64.334	51.333	0.00	0.00
ATOM	3706	HG1	THR	X	245	50.908	63.658	51.378	0.00	0.00
ATOM	3707	C	THR	X	245	53.862	63.299	48.418	0.00	0.00
ATOM	3708	O	THR	X	245	54.438	64.093	47.650	0.00	0.00
ATOM	3709	N	GLN	X	246	54.444	62.101	48.657	0.00	0.00
ATOM	3710	H	GLN	X	246	54.185	61.665	49.531	0.00	0.00
ATOM	3711	CA	GLN	X	246	55.661	61.625	48.023	0.00	0.00
ATOM	3712	HA	GLN	X	246	56.493	62.248	48.351	0.00	0.00
ATOM	3713	CB	GLN	X	246	55.947	60.206	48.507	0.00	0.00
ATOM	3714	HB2	GLN	X	246	55.910	60.176	49.596	0.00	0.00
ATOM	3715	HB3	GLN	X	246	55.148	59.560	48.143	0.00	0.00
ATOM	3716	CG	GLN	X	246	57.362	59.803	48.216	0.00	0.00
ATOM	3717	HG2	GLN	X	246	57.525	60.041	47.165	0.00	0.00
ATOM	3718	HG3	GLN	X	246	58.042	60.504	48.699	0.00	0.00
ATOM	3719	CD	GLN	X	246	57.604	58.375	48.469	0.00	0.00
ATOM	3720	OE1	GLN	X	246	56.814	57.540	48.891	0.00	0.00
ATOM	3721	NE2	GLN	X	246	58.830	58.049	48.182	0.00	0.00
ATOM	3722	HE21	GLN	X	246	59.134	57.088	48.114	0.00	0.00
ATOM	3723	HE22	GLN	X	246	59.557	58.737	48.050	0.00	0.00
ATOM	3724	C	GLN	X	246	55.541	61.717	46.545	0.00	0.00
ATOM	3725	O	GLN	X	246	56.518	62.147	45.987	0.00	0.00
ATOM	3726	N	LEU	X	247	54.441	61.274	45.926	0.00	0.00
ATOM	3727	H	LEU	X	247	53.652	61.044	46.513	0.00	0.00
ATOM	3728	CA	LEU	X	247	54.269	61.325	44.462	0.00	0.00
ATOM	3729	HA	LEU	X	247	55.138	60.764	44.118	0.00	0.00
ATOM	3730	CB	LEU	X	247	52.887	60.779	43.935	0.00	0.00
ATOM	3731	HB2	LEU	X	247	52.613	59.922	44.550	0.00	0.00
ATOM	3732	HB3	LEU	X	247	52.067	61.480	44.092	0.00	0.00
ATOM	3733	CG	LEU	X	247	52.796	60.329	42.531	0.00	0.00
ATOM	3734	HG	LEU	X	247	53.365	59.410	42.393	0.00	0.00
ATOM	3735	CD1	LEU	X	247	51.360	59.758	42.127	0.00	0.00
ATOM	3736	HD11	LEU	X	247	50.676	60.579	41.914	0.00	0.00
ATOM	3737	HD12	LEU	X	247	50.956	59.092	42.890	0.00	0.00
ATOM	3738	HD13	LEU	X	247	51.457	59.176	41.210	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.374	61.358	41.557	0.00	0.00
ATOM	3740	HD21	LEU	X	247	54.443	61.246	41.374	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.005	61.186	40.546	0.00	0.00
ATOM	3742	HD23	LEU	X	247	53.072	62.378	41.795	0.00	0.00
ATOM	3743	C	LEU	X	247	54.533	62.758	43.996	0.00	0.00
ATOM	3744	O	LEU	X	247	55.337	62.995	43.128	0.00	0.00
ATOM	3745	N	ALA	X	248	53.899	63.794	44.580	0.00	0.00
ATOM	3746	H	ALA	X	248	53.148	63.508	45.192	0.00	0.00
ATOM	3747	CA	ALA	X	248	53.988	65.246	44.323	0.00	0.00
ATOM	3748	HA	ALA	X	248	53.754	65.394	43.269	0.00	0.00
ATOM	3749	CB	ALA	X	248	52.871	65.946	45.132	0.00	0.00
ATOM	3750	HB1	ALA	X	248	53.078	65.882	46.200	0.00	0.00
ATOM	3751	HB2	ALA	X	248	51.993	65.348	44.885	0.00	0.00
ATOM	3752	HB3	ALA	X	248	52.714	66.981	44.827	0.00	0.00
ATOM	3753	C	ALA	X	248	55.411	65.752	44.624	0.00	0.00
ATOM	3754	O	ALA	X	248	55.934	66.610	43.976	0.00	0.00
ATOM	3755	N	HIE	X	249	56.090	65.209	45.715	0.00	0.00
ATOM	3756	H	HIE	X	249	55.588	64.511	46.246	0.00	0.00

ATOM	3757	CA	HIE	X	249	57.517	65.508	46.010	0.00	0.00
ATOM	3758	HA	HIE	X	249	57.573	66.595	46.069	0.00	0.00
ATOM	3759	CB	HIE	X	249	57.925	64.948	47.390	0.00	0.00
ATOM	3760	HB2	HIE	X	249	57.475	65.677	48.064	0.00	0.00
ATOM	3761	HB3	HIE	X	249	57.480	63.962	47.527	0.00	0.00
ATOM	3762	CG	HIE	X	249	59.429	64.952	47.678	0.00	0.00
ATOM	3763	ND1	HIE	X	249	60.183	66.072	47.560	0.00	0.00
ATOM	3764	CE1	HIE	X	249	61.450	65.641	47.753	0.00	0.00
ATOM	3765	HE1	HIE	X	249	62.332	66.249	47.892	0.00	0.00
ATOM	3766	NE2	HIE	X	249	61.550	64.342	47.988	0.00	0.00
ATOM	3767	HE2	HIE	X	249	62.397	63.799	48.071	0.00	0.00
ATOM	3768	CD2	HIE	X	249	60.306	63.879	47.865	0.00	0.00
ATOM	3769	HD2	HIE	X	249	59.865	62.899	47.974	0.00	0.00
ATOM	3770	C	HIE	X	249	58.435	65.058	44.875	0.00	0.00
ATOM	3771	O	HIE	X	249	59.245	65.836	44.361	0.00	0.00
ATOM	3772	N	LEU	X	250	58.217	63.792	44.360	0.00	0.00
ATOM	3773	H	LEU	X	250	57.488	63.211	44.748	0.00	0.00
ATOM	3774	CA	LEU	X	250	58.884	63.239	43.161	0.00	0.00
ATOM	3775	HA	LEU	X	250	59.971	63.263	43.236	0.00	0.00
ATOM	3776	CB	LEU	X	250	58.303	61.844	42.910	0.00	0.00
ATOM	3777	HB2	LEU	X	250	57.222	61.842	43.046	0.00	0.00
ATOM	3778	HB3	LEU	X	250	58.536	61.440	41.924	0.00	0.00
ATOM	3779	CG	LEU	X	250	58.854	60.817	43.911	0.00	0.00
ATOM	3780	HG	LEU	X	250	58.869	61.187	44.936	0.00	0.00
ATOM	3781	CD1	LEU	X	250	57.916	59.577	43.970	0.00	0.00
ATOM	3782	HD11	LEU	X	250	56.974	59.886	44.423	0.00	0.00
ATOM	3783	HD12	LEU	X	250	58.309	58.726	44.526	0.00	0.00
ATOM	3784	HD13	LEU	X	250	57.737	59.211	42.959	0.00	0.00
ATOM	3785	CD2	LEU	X	250	60.292	60.493	43.754	0.00	0.00
ATOM	3786	HD21	LEU	X	250	60.643	60.720	42.747	0.00	0.00
ATOM	3787	HD22	LEU	X	250	60.770	61.000	44.592	0.00	0.00
ATOM	3788	HD23	LEU	X	250	60.423	59.426	43.933	0.00	0.00
ATOM	3789	C	LEU	X	250	58.554	64.150	41.936	0.00	0.00
ATOM	3790	O	LEU	X	250	59.498	64.435	41.281	0.00	0.00
ATOM	3791	N	VAL	X	251	57.293	64.468	41.576	0.00	0.00
ATOM	3792	H	VAL	X	251	56.666	64.132	42.292	0.00	0.00
ATOM	3793	CA	VAL	X	251	56.824	65.083	40.321	0.00	0.00
ATOM	3794	HA	VAL	X	251	57.348	64.682	39.454	0.00	0.00
ATOM	3795	CB	VAL	X	251	55.341	64.928	39.974	0.00	0.00
ATOM	3796	HB	VAL	X	251	55.020	63.990	40.428	0.00	0.00
ATOM	3797	CG1	VAL	X	251	54.456	65.986	40.573	0.00	0.00
ATOM	3798	HG11	VAL	X	251	54.803	66.226	41.578	0.00	0.00
ATOM	3799	HG12	VAL	X	251	54.639	66.876	39.970	0.00	0.00
ATOM	3800	HG13	VAL	X	251	53.409	65.686	40.626	0.00	0.00
ATOM	3801	CG2	VAL	X	251	54.968	64.741	38.457	0.00	0.00
ATOM	3802	HG21	VAL	X	251	55.408	65.596	37.944	0.00	0.00
ATOM	3803	HG22	VAL	X	251	53.909	64.812	38.208	0.00	0.00
ATOM	3804	HG23	VAL	X	251	55.463	63.813	38.168	0.00	0.00
ATOM	3805	C	VAL	X	251	57.246	66.545	40.285	0.00	0.00
ATOM	3806	O	VAL	X	251	57.362	67.196	39.262	0.00	0.00
ATOM	3807	N	GLY	X	252	57.512	67.193	41.390	0.00	0.00
ATOM	3808	H	GLY	X	252	57.505	66.622	42.223	0.00	0.00
ATOM	3809	CA	GLY	X	252	57.779	68.655	41.647	0.00	0.00
ATOM	3810	HA2	GLY	X	252	58.226	68.852	42.622	0.00	0.00
ATOM	3811	HA3	GLY	X	252	58.214	69.188	40.802	0.00	0.00
ATOM	3812	C	GLY	X	252	56.468	69.447	41.661	0.00	0.00
ATOM	3813	O	GLY	X	252	56.245	70.304	40.824	0.00	0.00
ATOM	3814	N	CYX	X	253	55.603	69.196	42.635	0.00	0.00
ATOM	3815	H	CYX	X	253	55.933	68.541	43.330	0.00	0.00
ATOM	3816	CA	CYX	X	253	54.316	69.958	42.827	0.00	0.00
ATOM	3817	HA	CYX	X	253	54.340	70.758	42.087	0.00	0.00
ATOM	3818	CB	CYX	X	253	53.171	69.067	42.389	0.00	0.00
ATOM	3819	HB2	CYX	X	253	53.560	68.051	42.453	0.00	0.00
ATOM	3820	HB3	CYX	X	253	52.345	69.177	43.091	0.00	0.00
ATOM	3821	SG	CYX	X	253	52.639	69.235	40.709	0.00	0.00
ATOM	3822	C	CYX	X	253	54.077	70.519	44.233	0.00	0.00
ATOM	3823	O	CYX	X	253	53.599	69.803	45.148	0.00	0.00

ATOM	3824	N	PRO	X	254	54.285	71.852	44.419	0.00	0.00
ATOM	3825	CD	PRO	X	254	53.928	72.525	45.711	0.00	0.00
ATOM	3826	HD2	PRO	X	254	54.331	71.939	46.538	0.00	0.00
ATOM	3827	HD3	PRO	X	254	52.839	72.546	45.749	0.00	0.00
ATOM	3828	CG	PRO	X	254	54.551	73.915	45.539	0.00	0.00
ATOM	3829	HG2	PRO	X	254	55.476	73.994	46.111	0.00	0.00
ATOM	3830	HG3	PRO	X	254	53.896	74.630	46.036	0.00	0.00
ATOM	3831	CB	PRO	X	254	54.788	74.224	44.091	0.00	0.00
ATOM	3832	HB2	PRO	X	254	55.641	74.896	43.996	0.00	0.00
ATOM	3833	HB3	PRO	X	254	53.834	74.633	43.758	0.00	0.00
ATOM	3834	CA	PRO	X	254	54.984	72.760	43.471	0.00	0.00
ATOM	3835	HA	PRO	X	254	54.567	72.685	42.467	0.00	0.00
ATOM	3836	C	PRO	X	254	56.490	72.486	43.384	0.00	0.00
ATOM	3837	O	PRO	X	254	57.049	71.523	44.001	0.00	0.00
ATOM	3838	N	PRO	X	255	57.217	73.151	42.456	0.00	0.00
ATOM	3839	CD	PRO	X	255	56.705	73.964	41.357	0.00	0.00
ATOM	3840	HD2	PRO	X	255	55.920	74.652	41.668	0.00	0.00
ATOM	3841	HD3	PRO	X	255	56.355	73.246	40.615	0.00	0.00
ATOM	3842	CG	PRO	X	255	57.928	74.651	40.738	0.00	0.00
ATOM	3843	HG2	PRO	X	255	58.109	75.556	41.318	0.00	0.00
ATOM	3844	HG3	PRO	X	255	57.770	74.880	39.684	0.00	0.00
ATOM	3845	CB	PRO	X	255	59.016	73.625	41.053	0.00	0.00
ATOM	3846	HB2	PRO	X	255	60.011	74.070	41.048	0.00	0.00
ATOM	3847	HB3	PRO	X	255	58.970	72.897	40.243	0.00	0.00
ATOM	3848	CA	PRO	X	255	58.679	73.003	42.387	0.00	0.00
ATOM	3849	HA	PRO	X	255	59.035	71.975	42.459	0.00	0.00
ATOM	3850	C	PRO	X	255	59.323	73.752	43.577	0.00	0.00
ATOM	3851	O	PRO	X	255	58.888	74.797	43.973	0.00	0.00
ATOM	3852	N	GLY	X	256	60.237	73.025	44.212	0.00	0.00
ATOM	3853	H	GLY	X	256	60.485	72.072	43.987	0.00	0.00
ATOM	3854	CA	GLY	X	256	60.807	73.429	45.461	0.00	0.00
ATOM	3855	HA2	GLY	X	256	61.802	73.031	45.663	0.00	0.00
ATOM	3856	HA3	GLY	X	256	60.915	74.502	45.616	0.00	0.00
ATOM	3857	C	GLY	X	256	59.939	72.931	46.606	0.00	0.00
ATOM	3858	O	GLY	X	256	60.231	73.316	47.815	0.00	0.00
ATOM	3859	N	GLY	X	257	58.921	72.127	46.247	0.00	0.00
ATOM	3860	H	GLY	X	257	58.889	71.905	45.262	0.00	0.00
ATOM	3861	CA	GLY	X	257	57.841	71.551	47.012	0.00	0.00
ATOM	3862	HA2	GLY	X	257	57.412	72.257	47.722	0.00	0.00
ATOM	3863	HA3	GLY	X	257	56.992	71.243	46.401	0.00	0.00
ATOM	3864	C	GLY	X	257	58.218	70.225	47.854	0.00	0.00
ATOM	3865	O	GLY	X	257	58.926	69.360	47.314	0.00	0.00
ATOM	3866	N	THR	X	258	57.774	70.110	49.101	0.00	0.00
ATOM	3867	H	THR	X	258	57.196	70.837	49.498	0.00	0.00
ATOM	3868	CA	THR	X	258	58.129	69.003	50.049	0.00	0.00
ATOM	3869	HA	THR	X	258	58.661	68.215	49.516	0.00	0.00
ATOM	3870	CB	THR	X	258	59.088	69.610	51.106	0.00	0.00
ATOM	3871	HB	THR	X	258	59.219	68.791	51.813	0.00	0.00
ATOM	3872	CG2	THR	X	258	60.463	70.018	50.598	0.00	0.00
ATOM	3873	HG21	THR	X	258	61.258	69.869	51.328	0.00	0.00
ATOM	3874	HG22	THR	X	258	60.488	71.067	50.304	0.00	0.00
ATOM	3875	HG23	THR	X	258	60.635	69.429	49.697	0.00	0.00
ATOM	3876	OG1	THR	X	258	58.461	70.761	51.636	0.00	0.00
ATOM	3877	HG1	THR	X	258	58.937	71.064	52.413	0.00	0.00
ATOM	3878	C	THR	X	258	56.878	68.319	50.537	0.00	0.00
ATOM	3879	O	THR	X	258	56.560	67.218	50.193	0.00	0.00
ATOM	3880	N	GLY	X	259	56.020	68.987	51.340	0.00	0.00
ATOM	3881	H	GLY	X	259	56.381	69.832	51.760	0.00	0.00
ATOM	3882	CA	GLY	X	259	54.750	68.396	51.889	0.00	0.00
ATOM	3883	HA2	GLY	X	259	54.211	67.980	51.038	0.00	0.00
ATOM	3884	HA3	GLY	X	259	55.110	67.671	52.619	0.00	0.00
ATOM	3885	C	GLY	X	259	53.836	69.409	52.555	0.00	0.00
ATOM	3886	O	GLY	X	259	53.364	69.252	53.696	0.00	0.00
ATOM	3887	N	GLY	X	260	53.691	70.510	51.791	0.00	0.00
ATOM	3888	H	GLY	X	260	54.128	70.552	50.881	0.00	0.00
ATOM	3889	CA	GLY	X	260	53.073	71.783	52.132	0.00	0.00
ATOM	3890	HA2	GLY	X	260	53.261	72.040	53.174	0.00	0.00

ATOM	3891	HA3	GLY	X	260	53.531	72.516	51.467	0.00	0.00
ATOM	3892	C	GLY	X	260	51.537	71.895	52.004	0.00	0.00
ATOM	3893	O	GLY	X	260	50.743	71.073	52.382	0.00	0.00
ATOM	3894	N	ASN	X	261	51.091	73.047	51.498	0.00	0.00
ATOM	3895	H	ASN	X	261	51.776	73.785	51.417	0.00	0.00
ATOM	3896	CA	ASN	X	261	49.675	73.400	51.287	0.00	0.00
ATOM	3897	HA	ASN	X	261	49.254	73.296	52.287	0.00	0.00
ATOM	3898	CB	ASN	X	261	49.479	74.883	50.845	0.00	0.00
ATOM	3899	HB2	ASN	X	261	49.832	75.530	51.648	0.00	0.00
ATOM	3900	HB3	ASN	X	261	50.251	75.137	50.120	0.00	0.00
ATOM	3901	CG	ASN	X	261	48.124	75.187	50.255	0.00	0.00
ATOM	3902	OD1	ASN	X	261	47.921	75.458	49.076	0.00	0.00
ATOM	3903	ND2	ASN	X	261	47.120	75.237	51.095	0.00	0.00
ATOM	3904	HD21	ASN	X	261	46.270	75.718	50.838	0.00	0.00
ATOM	3905	HD22	ASN	X	261	47.279	75.057	52.076	0.00	0.00
ATOM	3906	C	ASN	X	261	48.967	72.410	50.307	0.00	0.00
ATOM	3907	O	ASN	X	261	49.348	72.361	49.097	0.00	0.00
ATOM	3908	N	ASP	X	262	47.786	71.826	50.673	0.00	0.00
ATOM	3909	H	ASP	X	262	47.523	72.006	51.631	0.00	0.00
ATOM	3910	CA	ASP	X	262	47.008	70.839	49.903	0.00	0.00
ATOM	3911	HA	ASP	X	262	47.642	69.954	49.843	0.00	0.00
ATOM	3912	CB	ASP	X	262	45.755	70.412	50.684	0.00	0.00
ATOM	3913	HB2	ASP	X	262	45.305	71.378	50.912	0.00	0.00
ATOM	3914	HB3	ASP	X	262	45.116	69.787	50.060	0.00	0.00
ATOM	3915	CG	ASP	X	262	45.959	69.755	52.055	0.00	0.00
ATOM	3916	OD1	ASP	X	262	44.947	69.590	52.784	0.00	0.00
ATOM	3917	OD2	ASP	X	262	47.078	69.476	52.558	0.00	0.00
ATOM	3918	C	ASP	X	262	46.509	71.275	48.490	0.00	0.00
ATOM	3919	O	ASP	X	262	46.565	70.503	47.570	0.00	0.00
ATOM	3920	N	THR	X	263	46.155	72.540	48.362	0.00	0.00
ATOM	3921	H	THR	X	263	46.318	73.133	49.163	0.00	0.00
ATOM	3922	CA	THR	X	263	45.740	73.163	47.091	0.00	0.00
ATOM	3923	HA	THR	X	263	45.028	72.498	46.603	0.00	0.00
ATOM	3924	CB	THR	X	263	45.036	74.553	47.304	0.00	0.00
ATOM	3925	HB	THR	X	263	45.756	75.353	47.475	0.00	0.00
ATOM	3926	CG2	THR	X	263	44.100	74.898	46.119	0.00	0.00
ATOM	3927	HG21	THR	X	263	44.726	74.923	45.227	0.00	0.00
ATOM	3928	HG22	THR	X	263	43.651	75.874	46.305	0.00	0.00
ATOM	3929	HG23	THR	X	263	43.343	74.115	46.109	0.00	0.00
ATOM	3930	OG1	THR	X	263	44.286	74.397	48.462	0.00	0.00
ATOM	3931	HG1	THR	X	263	43.693	73.649	48.360	0.00	0.00
ATOM	3932	C	THR	X	263	46.952	73.306	46.113	0.00	0.00
ATOM	3933	O	THR	X	263	47.003	72.650	45.045	0.00	0.00
ATOM	3934	N	GLU	X	264	47.944	73.989	46.630	0.00	0.00
ATOM	3935	H	GLU	X	264	47.865	74.426	47.537	0.00	0.00
ATOM	3936	CA	GLU	X	264	49.207	74.133	45.864	0.00	0.00
ATOM	3937	HA	GLU	X	264	48.934	74.626	44.931	0.00	0.00
ATOM	3938	CB	GLU	X	264	50.210	75.005	46.580	0.00	0.00
ATOM	3939	HB2	GLU	X	264	50.249	74.830	47.656	0.00	0.00
ATOM	3940	HB3	GLU	X	264	51.123	74.628	46.119	0.00	0.00
ATOM	3941	CG	GLU	X	264	49.974	76.468	46.241	0.00	0.00
ATOM	3942	HG2	GLU	X	264	48.897	76.594	46.359	0.00	0.00
ATOM	3943	HG3	GLU	X	264	50.391	77.091	47.033	0.00	0.00
ATOM	3944	CD	GLU	X	264	50.596	76.858	44.959	0.00	0.00
ATOM	3945	OE1	GLU	X	264	49.862	76.874	43.958	0.00	0.00
ATOM	3946	OE2	GLU	X	264	51.773	77.187	44.866	0.00	0.00
ATOM	3947	C	GLU	X	264	49.870	72.752	45.527	0.00	0.00
ATOM	3948	O	GLU	X	264	50.658	72.667	44.488	0.00	0.00
ATOM	3949	N	LEU	X	265	49.616	71.711	46.284	0.00	0.00
ATOM	3950	H	LEU	X	265	49.265	71.864	47.219	0.00	0.00
ATOM	3951	CA	LEU	X	265	50.030	70.368	45.977	0.00	0.00
ATOM	3952	HA	LEU	X	265	51.014	70.359	45.508	0.00	0.00
ATOM	3953	CB	LEU	X	265	50.091	69.585	47.268	0.00	0.00
ATOM	3954	HB2	LEU	X	265	50.563	70.285	47.958	0.00	0.00
ATOM	3955	HB3	LEU	X	265	49.084	69.439	47.659	0.00	0.00
ATOM	3956	CG	LEU	X	265	50.723	68.227	47.311	0.00	0.00
ATOM	3957	HG	LEU	X	265	51.652	68.366	46.758	0.00	0.00

ATOM	3958	CD1	LEU	X	265	50.977	67.641	48.681	0.00	0.00
ATOM	3959	HD11	LEU	X	265	51.589	66.763	48.473	0.00	0.00
ATOM	3960	HD12	LEU	X	265	50.069	67.387	49.226	0.00	0.00
ATOM	3961	HD13	LEU	X	265	51.561	68.311	49.313	0.00	0.00
ATOM	3962	CD2	LEU	X	265	49.984	67.130	46.578	0.00	0.00
ATOM	3963	HD21	LEU	X	265	49.992	67.298	45.501	0.00	0.00
ATOM	3964	HD22	LEU	X	265	50.390	66.123	46.675	0.00	0.00
ATOM	3965	HD23	LEU	X	265	48.913	67.201	46.766	0.00	0.00
ATOM	3966	C	LEU	X	265	49.071	69.730	44.948	0.00	0.00
ATOM	3967	O	LEU	X	265	49.429	69.476	43.810	0.00	0.00
ATOM	3968	N	VAL	X	266	47.802	69.455	45.257	0.00	0.00
ATOM	3969	H	VAL	X	266	47.560	69.783	46.181	0.00	0.00
ATOM	3970	CA	VAL	X	266	46.723	68.742	44.507	0.00	0.00
ATOM	3971	HA	VAL	X	266	47.206	67.825	44.171	0.00	0.00
ATOM	3972	CB	VAL	X	266	45.555	68.283	45.420	0.00	0.00
ATOM	3973	HB	VAL	X	266	45.009	69.187	45.689	0.00	0.00
ATOM	3974	CG1	VAL	X	266	44.617	67.365	44.560	0.00	0.00
ATOM	3975	HG11	VAL	X	266	44.072	67.822	43.734	0.00	0.00
ATOM	3976	HG12	VAL	X	266	45.264	66.671	44.023	0.00	0.00
ATOM	3977	HG13	VAL	X	266	43.977	66.722	45.164	0.00	0.00
ATOM	3978	CG2	VAL	X	266	46.058	67.521	46.617	0.00	0.00
ATOM	3979	HG21	VAL	X	266	46.763	68.131	47.182	0.00	0.00
ATOM	3980	HG22	VAL	X	266	46.527	66.553	46.441	0.00	0.00
ATOM	3981	HG23	VAL	X	266	45.161	67.244	47.171	0.00	0.00
ATOM	3982	C	VAL	X	266	46.184	69.431	43.295	0.00	0.00
ATOM	3983	O	VAL	X	266	45.990	68.698	42.360	0.00	0.00
ATOM	3984	N	ALA	X	267	46.032	70.779	43.291	0.00	0.00
ATOM	3985	H	ALA	X	267	46.243	71.276	44.144	0.00	0.00
ATOM	3986	CA	ALA	X	267	45.764	71.481	42.001	0.00	0.00
ATOM	3987	HA	ALA	X	267	44.889	71.037	41.526	0.00	0.00
ATOM	3988	CB	ALA	X	267	45.609	72.999	42.166	0.00	0.00
ATOM	3989	HB1	ALA	X	267	46.614	73.364	42.376	0.00	0.00
ATOM	3990	HB2	ALA	X	267	44.874	73.288	42.917	0.00	0.00
ATOM	3991	HB3	ALA	X	267	45.354	73.431	41.199	0.00	0.00
ATOM	3992	C	ALA	X	267	46.922	71.139	41.042	0.00	0.00
ATOM	3993	O	ALA	X	267	46.721	70.836	39.811	0.00	0.00
ATOM	3994	N	CYX	X	268	48.205	71.092	41.546	0.00	0.00
ATOM	3995	H	CYX	X	268	48.389	71.259	42.525	0.00	0.00
ATOM	3996	CA	CYX	X	268	49.342	70.891	40.668	0.00	0.00
ATOM	3997	HA	CYX	X	268	49.231	71.493	39.766	0.00	0.00
ATOM	3998	CB	CYX	X	268	50.589	71.385	41.422	0.00	0.00
ATOM	3999	HB2	CYX	X	268	50.494	72.470	41.467	0.00	0.00
ATOM	4000	HB3	CYX	X	268	50.732	70.875	42.374	0.00	0.00
ATOM	4001	SG	CYX	X	268	52.139	71.248	40.500	0.00	0.00
ATOM	4002	C	CYX	X	268	49.399	69.450	40.212	0.00	0.00
ATOM	4003	O	CYX	X	268	49.694	69.231	39.035	0.00	0.00
ATOM	4004	N	LEU	X	269	49.045	68.498	41.116	0.00	0.00
ATOM	4005	H	LEU	X	269	48.942	68.719	42.096	0.00	0.00
ATOM	4006	CA	LEU	X	269	48.846	67.042	40.750	0.00	0.00
ATOM	4007	HA	LEU	X	269	49.789	66.844	40.241	0.00	0.00
ATOM	4008	CB	LEU	X	269	48.685	66.217	42.138	0.00	0.00
ATOM	4009	HB2	LEU	X	269	49.237	66.732	42.924	0.00	0.00
ATOM	4010	HB3	LEU	X	269	47.670	66.419	42.481	0.00	0.00
ATOM	4011	CG	LEU	X	269	49.061	64.710	42.130	0.00	0.00
ATOM	4012	HG	LEU	X	269	48.381	64.185	41.459	0.00	0.00
ATOM	4013	CD1	LEU	X	269	50.488	64.414	41.638	0.00	0.00
ATOM	4014	HD11	LEU	X	269	50.612	64.661	40.583	0.00	0.00
ATOM	4015	HD12	LEU	X	269	50.743	63.367	41.804	0.00	0.00
ATOM	4016	HD13	LEU	X	269	51.192	64.958	42.267	0.00	0.00
ATOM	4017	CD2	LEU	X	269	48.842	64.167	43.512	0.00	0.00
ATOM	4018	HD21	LEU	X	269	47.793	64.362	43.733	0.00	0.00
ATOM	4019	HD22	LEU	X	269	48.893	63.080	43.443	0.00	0.00
ATOM	4020	HD23	LEU	X	269	49.538	64.754	44.112	0.00	0.00
ATOM	4021	C	LEU	X	269	47.676	66.812	39.824	0.00	0.00
ATOM	4022	O	LEU	X	269	47.654	65.833	39.138	0.00	0.00
ATOM	4023	N	ARG	X	270	46.656	67.659	39.727	0.00	0.00
ATOM	4024	H	ARG	X	270	46.607	68.385	40.427	0.00	0.00

ATOM	4025	CA	ARG	X	270	45.668	67.737	38.679	0.00	0.00
ATOM	4026	HA	ARG	X	270	45.250	66.740	38.542	0.00	0.00
ATOM	4027	CB	ARG	X	270	44.374	68.566	39.198	0.00	0.00
ATOM	4028	HB2	ARG	X	270	44.578	69.505	39.713	0.00	0.00
ATOM	4029	HB3	ARG	X	270	43.853	68.920	38.309	0.00	0.00
ATOM	4030	CG	ARG	X	270	43.439	67.744	40.097	0.00	0.00
ATOM	4031	HG2	ARG	X	270	43.222	66.828	39.547	0.00	0.00
ATOM	4032	HG3	ARG	X	270	43.804	67.438	41.078	0.00	0.00
ATOM	4033	CD	ARG	X	270	42.069	68.370	40.334	0.00	0.00
ATOM	4034	HD2	ARG	X	270	41.852	69.207	39.670	0.00	0.00
ATOM	4035	HD3	ARG	X	270	41.336	67.568	40.242	0.00	0.00
ATOM	4036	NE	ARG	X	270	42.035	69.072	41.643	0.00	0.00
ATOM	4037	HE	ARG	X	270	42.150	70.070	41.750	0.00	0.00
ATOM	4038	CZ	ARG	X	270	41.698	68.423	42.765	0.00	0.00
ATOM	4039	NH1	ARG	X	270	41.563	67.082	42.877	0.00	0.00
ATOM	4040	HH11	ARG	X	270	41.783	66.466	42.107	0.00	0.00
ATOM	4041	HH12	ARG	X	270	41.272	66.656	43.745	0.00	0.00
ATOM	4042	NH2	ARG	X	270	41.529	69.088	43.919	0.00	0.00
ATOM	4043	HH21	ARG	X	270	41.485	70.097	43.928	0.00	0.00
ATOM	4044	HH22	ARG	X	270	41.358	68.579	44.775	0.00	0.00
ATOM	4045	C	ARG	X	270	46.259	68.103	37.272	0.00	0.00
ATOM	4046	O	ARG	X	270	45.791	67.563	36.265	0.00	0.00
ATOM	4047	N	THR	X	271	47.081	69.187	37.281	0.00	0.00
ATOM	4048	H	THR	X	271	47.229	69.654	38.164	0.00	0.00
ATOM	4049	CA	THR	X	271	47.752	69.746	36.151	0.00	0.00
ATOM	4050	HA	THR	X	271	46.998	69.959	35.394	0.00	0.00
ATOM	4051	CB	THR	X	271	48.560	71.003	36.562	0.00	0.00
ATOM	4052	HB	THR	X	271	49.235	70.775	37.387	0.00	0.00
ATOM	4053	CG2	THR	X	271	49.416	71.605	35.417	0.00	0.00
ATOM	4054	HG21	THR	X	271	49.755	72.615	35.648	0.00	0.00
ATOM	4055	HG22	THR	X	271	48.659	71.804	34.659	0.00	0.00
ATOM	4056	HG23	THR	X	271	50.199	70.876	35.208	0.00	0.00
ATOM	4057	OG1	THR	X	271	47.581	71.995	36.753	0.00	0.00
ATOM	4058	HG1	THR	X	271	47.959	72.690	37.297	0.00	0.00
ATOM	4059	C	THR	X	271	48.699	68.781	35.419	0.00	0.00
ATOM	4060	O	THR	X	271	48.588	68.696	34.200	0.00	0.00
ATOM	4061	N	ARG	X	272	49.576	68.084	36.137	0.00	0.00
ATOM	4062	H	ARG	X	272	49.687	68.375	37.098	0.00	0.00
ATOM	4063	CA	ARG	X	272	50.565	67.171	35.643	0.00	0.00
ATOM	4064	HA	ARG	X	272	51.183	67.857	35.062	0.00	0.00
ATOM	4065	CB	ARG	X	272	51.336	66.608	36.811	0.00	0.00
ATOM	4066	HB2	ARG	X	272	50.637	66.117	37.489	0.00	0.00
ATOM	4067	HB3	ARG	X	272	51.978	65.809	36.441	0.00	0.00
ATOM	4068	CG	ARG	X	272	52.225	67.661	37.522	0.00	0.00
ATOM	4069	HG2	ARG	X	272	51.667	68.563	37.774	0.00	0.00
ATOM	4070	HG3	ARG	X	272	52.663	67.291	38.449	0.00	0.00
ATOM	4071	CD	ARG	X	272	53.356	68.231	36.664	0.00	0.00
ATOM	4072	HD2	ARG	X	272	54.086	67.453	36.440	0.00	0.00
ATOM	4073	HD3	ARG	X	272	52.881	68.574	35.746	0.00	0.00
ATOM	4074	NE	ARG	X	272	54.106	69.306	37.370	0.00	0.00
ATOM	4075	HE	ARG	X	272	54.909	68.983	37.891	0.00	0.00
ATOM	4076	CZ	ARG	X	272	53.864	70.611	37.497	0.00	0.00
ATOM	4077	NH1	ARG	X	272	52.904	71.118	36.795	0.00	0.00
ATOM	4078	HH11	ARG	X	272	52.599	70.634	35.962	0.00	0.00
ATOM	4079	HH12	ARG	X	272	52.681	72.099	36.872	0.00	0.00
ATOM	4080	NH2	ARG	X	272	54.537	71.354	38.309	0.00	0.00
ATOM	4081	HH21	ARG	X	272	55.376	71.140	38.830	0.00	0.00
ATOM	4082	HH22	ARG	X	272	54.329	72.343	38.321	0.00	0.00
ATOM	4083	C	ARG	X	272	49.979	66.029	34.732	0.00	0.00
ATOM	4084	O	ARG	X	272	48.975	65.449	35.143	0.00	0.00
ATOM	4085	N	PRO	X	273	50.557	65.795	33.506	0.00	0.00
ATOM	4086	CD	PRO	X	273	51.478	66.685	32.781	0.00	0.00
ATOM	4087	HD2	PRO	X	273	52.258	67.024	33.463	0.00	0.00
ATOM	4088	HD3	PRO	X	273	51.008	67.533	32.282	0.00	0.00
ATOM	4089	CG	PRO	X	273	52.090	65.833	31.650	0.00	0.00
ATOM	4090	HG2	PRO	X	273	52.857	65.201	32.097	0.00	0.00
ATOM	4091	HG3	PRO	X	273	52.470	66.449	30.835	0.00	0.00

ATOM	4092	CB	PRO	X	273	50.792	65.066	31.225	0.00	0.00
ATOM	4093	HB2	PRO	X	273	50.936	64.149	30.654	0.00	0.00
ATOM	4094	HB3	PRO	X	273	50.069	65.730	30.752	0.00	0.00
ATOM	4095	CA	PRO	X	273	49.968	64.841	32.555	0.00	0.00
ATOM	4096	HA	PRO	X	273	48.952	65.217	32.431	0.00	0.00
ATOM	4097	C	PRO	X	273	49.955	63.343	33.096	0.00	0.00
ATOM	4098	O	PRO	X	273	50.701	62.931	33.990	0.00	0.00
ATOM	4099	N	ALA	X	274	48.990	62.551	32.603	0.00	0.00
ATOM	4100	H	ALA	X	274	48.414	62.952	31.877	0.00	0.00
ATOM	4101	CA	ALA	X	274	48.620	61.321	33.263	0.00	0.00
ATOM	4102	HA	ALA	X	274	48.405	61.669	34.274	0.00	0.00
ATOM	4103	CB	ALA	X	274	47.298	60.839	32.538	0.00	0.00
ATOM	4104	HB1	ALA	X	274	46.919	59.872	32.870	0.00	0.00
ATOM	4105	HB2	ALA	X	274	47.552	60.889	31.480	0.00	0.00
ATOM	4106	HB3	ALA	X	274	46.597	61.650	32.735	0.00	0.00
ATOM	4107	C	ALA	X	274	49.755	60.294	33.247	0.00	0.00
ATOM	4108	O	ALA	X	274	49.798	59.468	34.162	0.00	0.00
ATOM	4109	N	GLN	X	275	50.610	60.223	32.213	0.00	0.00
ATOM	4110	H	GLN	X	275	50.357	60.702	31.361	0.00	0.00
ATOM	4111	CA	GLN	X	275	51.673	59.314	31.970	0.00	0.00
ATOM	4112	HA	GLN	X	275	51.253	58.311	32.038	0.00	0.00
ATOM	4113	CB	GLN	X	275	52.185	59.393	30.533	0.00	0.00
ATOM	4114	HB2	GLN	X	275	51.407	59.240	29.785	0.00	0.00
ATOM	4115	HB3	GLN	X	275	52.503	60.424	30.385	0.00	0.00
ATOM	4116	CG	GLN	X	275	53.388	58.515	30.240	0.00	0.00
ATOM	4117	HG2	GLN	X	275	54.248	58.899	30.789	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.181	57.475	30.496	0.00	0.00
ATOM	4119	CD	GLN	X	275	53.798	58.637	28.746	0.00	0.00
ATOM	4120	OE1	GLN	X	275	54.658	59.382	28.344	0.00	0.00
ATOM	4121	NE2	GLN	X	275	53.206	58.008	27.773	0.00	0.00
ATOM	4122	HE21	GLN	X	275	53.417	58.235	26.812	0.00	0.00
ATOM	4123	HE22	GLN	X	275	52.449	57.367	27.962	0.00	0.00
ATOM	4124	C	GLN	X	275	52.673	59.413	33.175	0.00	0.00
ATOM	4125	O	GLN	X	275	53.046	58.452	33.818	0.00	0.00
ATOM	4126	N	VAL	X	276	53.188	60.625	33.448	0.00	0.00
ATOM	4127	H	VAL	X	276	53.008	61.453	32.898	0.00	0.00
ATOM	4128	CA	VAL	X	276	54.133	60.816	34.599	0.00	0.00
ATOM	4129	HA	VAL	X	276	54.836	59.997	34.446	0.00	0.00
ATOM	4130	CB	VAL	X	276	55.037	62.064	34.380	0.00	0.00
ATOM	4131	HB	VAL	X	276	55.500	62.019	33.394	0.00	0.00
ATOM	4132	CG1	VAL	X	276	54.270	63.423	34.555	0.00	0.00
ATOM	4133	HG11	VAL	X	276	53.422	63.549	33.883	0.00	0.00
ATOM	4134	HG12	VAL	X	276	53.877	63.581	35.560	0.00	0.00
ATOM	4135	HG13	VAL	X	276	54.952	64.219	34.255	0.00	0.00
ATOM	4136	CG2	VAL	X	276	56.205	61.963	35.366	0.00	0.00
ATOM	4137	HG21	VAL	X	276	56.954	62.688	35.045	0.00	0.00
ATOM	4138	HG22	VAL	X	276	56.675	60.980	35.364	0.00	0.00
ATOM	4139	HG23	VAL	X	276	55.926	62.189	36.395	0.00	0.00
ATOM	4140	C	VAL	X	276	53.572	60.679	36.011	0.00	0.00
ATOM	4141	O	VAL	X	276	54.347	60.384	36.926	0.00	0.00
ATOM	4142	N	LEU	X	277	52.239	60.825	36.204	0.00	0.00
ATOM	4143	H	LEU	X	277	51.651	61.184	35.466	0.00	0.00
ATOM	4144	CA	LEU	X	277	51.511	60.440	37.436	0.00	0.00
ATOM	4145	HA	LEU	X	277	52.127	60.854	38.234	0.00	0.00
ATOM	4146	CB	LEU	X	277	50.136	61.070	37.307	0.00	0.00
ATOM	4147	HB2	LEU	X	277	50.295	62.144	37.204	0.00	0.00
ATOM	4148	HB3	LEU	X	277	49.732	60.656	36.384	0.00	0.00
ATOM	4149	CG	LEU	X	277	49.095	60.913	38.434	0.00	0.00
ATOM	4150	HG	LEU	X	277	49.011	59.863	38.713	0.00	0.00
ATOM	4151	CD1	LEU	X	277	49.487	61.744	39.624	0.00	0.00
ATOM	4152	HD11	LEU	X	277	50.513	61.490	39.891	0.00	0.00
ATOM	4153	HD12	LEU	X	277	48.792	61.507	40.429	0.00	0.00
ATOM	4154	HD13	LEU	X	277	49.595	62.809	39.417	0.00	0.00
ATOM	4155	CD2	LEU	X	277	47.747	61.414	37.909	0.00	0.00
ATOM	4156	HD21	LEU	X	277	47.141	61.566	38.803	0.00	0.00
ATOM	4157	HD22	LEU	X	277	47.871	62.295	37.279	0.00	0.00
ATOM	4158	HD23	LEU	X	277	47.256	60.545	37.471	0.00	0.00

ATOM	4159	C	LEU	X	277	51.510	58.856	37.649	0.00	0.00
ATOM	4160	O	LEU	X	277	51.874	58.400	38.691	0.00	0.00
ATOM	4161	N	VAL	X	278	51.284	58.127	36.526	0.00	0.00
ATOM	4162	H	VAL	X	278	50.905	58.586	35.710	0.00	0.00
ATOM	4163	CA	VAL	X	278	51.488	56.617	36.418	0.00	0.00
ATOM	4164	HA	VAL	X	278	50.891	56.215	37.236	0.00	0.00
ATOM	4165	CB	VAL	X	278	50.939	55.916	35.185	0.00	0.00
ATOM	4166	HB	VAL	X	278	51.500	56.239	34.308	0.00	0.00
ATOM	4167	CG1	VAL	X	278	51.189	54.381	35.246	0.00	0.00
ATOM	4168	HG11	VAL	X	278	50.874	53.948	36.196	0.00	0.00
ATOM	4169	HG12	VAL	X	278	50.653	53.902	34.426	0.00	0.00
ATOM	4170	HG13	VAL	X	278	52.244	54.155	35.092	0.00	0.00
ATOM	4171	CG2	VAL	X	278	49.453	56.065	34.957	0.00	0.00
ATOM	4172	HG21	VAL	X	278	49.209	55.822	33.923	0.00	0.00
ATOM	4173	HG22	VAL	X	278	49.210	57.095	35.218	0.00	0.00
ATOM	4174	HG23	VAL	X	278	48.990	55.333	35.619	0.00	0.00
ATOM	4175	C	VAL	X	278	52.992	56.291	36.653	0.00	0.00
ATOM	4176	O	VAL	X	278	53.197	55.337	37.422	0.00	0.00
ATOM	4177	N	ASN	X	279	54.005	56.905	36.020	0.00	0.00
ATOM	4178	H	ASN	X	279	53.770	57.703	35.446	0.00	0.00
ATOM	4179	CA	ASN	X	279	55.415	56.610	36.209	0.00	0.00
ATOM	4180	HA	ASN	X	279	55.594	55.588	35.873	0.00	0.00
ATOM	4181	CB	ASN	X	279	56.234	57.589	35.359	0.00	0.00
ATOM	4182	HB2	ASN	X	279	55.929	57.568	34.313	0.00	0.00
ATOM	4183	HB3	ASN	X	279	56.061	58.584	35.769	0.00	0.00
ATOM	4184	CG	ASN	X	279	57.757	57.263	35.590	0.00	0.00
ATOM	4185	OD1	ASN	X	279	58.181	56.149	35.269	0.00	0.00
ATOM	4186	ND2	ASN	X	279	58.551	58.149	36.042	0.00	0.00
ATOM	4187	HD21	ASN	X	279	59.512	57.893	36.216	0.00	0.00
ATOM	4188	HD22	ASN	X	279	58.163	59.026	36.359	0.00	0.00
ATOM	4189	C	ASN	X	279	55.875	56.665	37.675	0.00	0.00
ATOM	4190	O	ASN	X	279	56.663	55.826	38.163	0.00	0.00
ATOM	4191	N	HIE	X	280	55.346	57.641	38.421	0.00	0.00
ATOM	4192	H	HIE	X	280	54.808	58.397	38.022	0.00	0.00
ATOM	4193	CA	HIE	X	280	55.566	57.726	39.859	0.00	0.00
ATOM	4194	HA	HIE	X	280	56.598	57.390	39.969	0.00	0.00
ATOM	4195	CB	HIE	X	280	55.664	59.199	40.228	0.00	0.00
ATOM	4196	HB2	HIE	X	280	54.745	59.721	39.964	0.00	0.00
ATOM	4197	HB3	HIE	X	280	55.603	59.266	41.314	0.00	0.00
ATOM	4198	CG	HIE	X	280	56.849	59.976	39.692	0.00	0.00
ATOM	4199	ND1	HIE	X	280	58.287	59.788	39.736	0.00	0.00
ATOM	4200	CE1	HIE	X	280	58.799	60.857	39.138	0.00	0.00
ATOM	4201	HE1	HIE	X	280	59.853	61.084	39.083	0.00	0.00
ATOM	4202	NE2	HIE	X	280	57.839	61.625	38.603	0.00	0.00
ATOM	4203	HE2	HIE	X	280	57.968	62.486	38.090	0.00	0.00
ATOM	4204	CD2	HIE	X	280	56.617	61.024	38.861	0.00	0.00
ATOM	4205	HD2	HIE	X	280	55.704	61.584	38.721	0.00	0.00
ATOM	4206	C	HIE	X	280	54.565	57.000	40.771	0.00	0.00
ATOM	4207	O	HIE	X	280	54.784	56.924	41.933	0.00	0.00
ATOM	4208	N	GLU	X	281	53.532	56.416	40.248	0.00	0.00
ATOM	4209	H	GLU	X	281	53.217	56.645	39.316	0.00	0.00
ATOM	4210	CA	GLU	X	281	52.587	55.633	40.974	0.00	0.00
ATOM	4211	HA	GLU	X	281	52.139	56.259	41.746	0.00	0.00
ATOM	4212	CB	GLU	X	281	51.419	55.331	40.023	0.00	0.00
ATOM	4213	HB2	GLU	X	281	50.926	56.222	39.633	0.00	0.00
ATOM	4214	HB3	GLU	X	281	51.667	54.733	39.146	0.00	0.00
ATOM	4215	CG	GLU	X	281	50.356	54.561	40.909	0.00	0.00
ATOM	4216	HG2	GLU	X	281	50.667	53.537	41.111	0.00	0.00
ATOM	4217	HG3	GLU	X	281	50.390	55.010	41.901	0.00	0.00
ATOM	4218	CD	GLU	X	281	48.900	54.540	40.603	0.00	0.00
ATOM	4219	OE1	GLU	X	281	48.358	55.450	39.836	0.00	0.00
ATOM	4220	OE2	GLU	X	281	48.249	53.675	41.199	0.00	0.00
ATOM	4221	C	GLU	X	281	53.283	54.379	41.430	0.00	0.00
ATOM	4222	O	GLU	X	281	53.403	54.168	42.634	0.00	0.00
ATOM	4223	N	TRP	X	282	53.711	53.535	40.514	0.00	0.00
ATOM	4224	H	TRP	X	282	53.640	53.803	39.543	0.00	0.00
ATOM	4225	CA	TRP	X	282	54.453	52.335	40.923	0.00	0.00

ATOM	4226	HA	TRP	X	282	53.852	51.896	41.719	0.00	0.00
ATOM	4227	CB	TRP	X	282	54.495	51.438	39.721	0.00	0.00
ATOM	4228	HB2	TRP	X	282	54.548	52.039	38.813	0.00	0.00
ATOM	4229	HB3	TRP	X	282	55.467	50.946	39.722	0.00	0.00
ATOM	4230	CG	TRP	X	282	53.344	50.473	39.707	0.00	0.00
ATOM	4231	CD1	TRP	X	282	52.017	50.722	39.524	0.00	0.00
ATOM	4232	HD1	TRP	X	282	51.587	51.696	39.339	0.00	0.00
ATOM	4233	NE1	TRP	X	282	51.302	49.548	39.719	0.00	0.00
ATOM	4234	HE1	TRP	X	282	50.304	49.511	39.566	0.00	0.00
ATOM	4235	CE2	TRP	X	282	52.104	48.532	40.142	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	51.851	47.247	40.710	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	50.857	46.825	40.686	0.00	0.00
ATOM	4238	CH2	TRP	X	282	52.951	46.511	41.144	0.00	0.00
ATOM	4239	HH2	TRP	X	282	52.785	45.540	41.586	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	54.216	46.970	40.966	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	55.110	46.419	41.215	0.00	0.00
ATOM	4242	CE3	TRP	X	282	54.475	48.165	40.297	0.00	0.00
ATOM	4243	HE3	TRP	X	282	55.501	48.481	40.182	0.00	0.00
ATOM	4244	CD2	TRP	X	282	53.422	49.032	40.016	0.00	0.00
ATOM	4245	C	TRP	X	282	55.775	52.741	41.609	0.00	0.00
ATOM	4246	O	TRP	X	282	56.437	51.894	42.215	0.00	0.00
ATOM	4247	N	HIE	X	283	56.232	53.997	41.561	0.00	0.00
ATOM	4248	H	HIE	X	283	55.807	54.636	40.904	0.00	0.00
ATOM	4249	CA	HIE	X	283	57.372	54.440	42.341	0.00	0.00
ATOM	4250	HA	HIE	X	283	58.084	53.615	42.320	0.00	0.00
ATOM	4251	CB	HIE	X	283	57.959	55.674	41.787	0.00	0.00
ATOM	4252	HB2	HIE	X	283	57.735	55.638	40.721	0.00	0.00
ATOM	4253	HB3	HIE	X	283	57.468	56.509	42.288	0.00	0.00
ATOM	4254	CG	HIE	X	283	59.515	55.852	42.028	0.00	0.00
ATOM	4255	ND1	HIE	X	283	60.470	54.787	42.236	0.00	0.00
ATOM	4256	CE1	HIE	X	283	61.593	55.488	42.532	0.00	0.00
ATOM	4257	HE1	HIE	X	283	62.571	55.068	42.714	0.00	0.00
ATOM	4258	NE2	HIE	X	283	61.405	56.842	42.534	0.00	0.00
ATOM	4259	HE2	HIE	X	283	62.068	57.589	42.679	0.00	0.00
ATOM	4260	CD2	HIE	X	283	60.089	57.036	42.256	0.00	0.00
ATOM	4261	HD2	HIE	X	283	59.723	58.051	42.210	0.00	0.00
ATOM	4262	C	HIE	X	283	56.965	54.660	43.829	0.00	0.00
ATOM	4263	O	HIE	X	283	57.804	54.379	44.686	0.00	0.00
ATOM	4264	N	VAL	X	284	55.740	55.067	44.210	0.00	0.00
ATOM	4265	H	VAL	X	284	55.120	55.356	43.466	0.00	0.00
ATOM	4266	CA	VAL	X	284	55.107	54.971	45.563	0.00	0.00
ATOM	4267	HA	VAL	X	284	55.874	55.153	46.316	0.00	0.00
ATOM	4268	CB	VAL	X	284	54.129	56.172	45.762	0.00	0.00
ATOM	4269	HB	VAL	X	284	53.782	56.059	46.789	0.00	0.00
ATOM	4270	CG1	VAL	X	284	54.915	57.474	45.771	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.678	57.392	46.545	0.00	0.00
ATOM	4272	HG12	VAL	X	284	55.367	57.616	44.789	0.00	0.00
ATOM	4273	HG13	VAL	X	284	54.323	58.350	46.035	0.00	0.00
ATOM	4274	CG2	VAL	X	284	52.983	56.208	44.797	0.00	0.00
ATOM	4275	HG21	VAL	X	284	52.565	55.202	44.756	0.00	0.00
ATOM	4276	HG22	VAL	X	284	53.217	56.649	43.828	0.00	0.00
ATOM	4277	HG23	VAL	X	284	52.248	56.969	45.060	0.00	0.00
ATOM	4278	C	VAL	X	284	54.532	53.625	45.958	0.00	0.00
ATOM	4279	O	VAL	X	284	53.588	53.486	46.779	0.00	0.00
ATOM	4280	N	LEU	X	285	55.115	52.537	45.493	0.00	0.00
ATOM	4281	H	LEU	X	285	56.022	52.758	45.108	0.00	0.00
ATOM	4282	CA	LEU	X	285	54.700	51.154	45.752	0.00	0.00
ATOM	4283	HA	LEU	X	285	53.625	50.976	45.776	0.00	0.00
ATOM	4284	CB	LEU	X	285	55.405	50.298	44.672	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.034	50.802	43.779	0.00	0.00
ATOM	4286	HB3	LEU	X	285	56.493	50.304	44.736	0.00	0.00
ATOM	4287	CG	LEU	X	285	54.971	48.834	44.609	0.00	0.00
ATOM	4288	HG	LEU	X	285	54.931	48.430	45.621	0.00	0.00
ATOM	4289	CD1	LEU	X	285	53.503	48.701	44.040	0.00	0.00
ATOM	4290	HD11	LEU	X	285	53.150	47.670	43.997	0.00	0.00
ATOM	4291	HD12	LEU	X	285	53.586	49.106	43.032	0.00	0.00
ATOM	4292	HD13	LEU	X	285	52.757	49.247	44.617	0.00	0.00

ATOM	4293	CD2	LEU	X	285	56.036	47.998	43.741	0.00	0.00
ATOM	4294	HD21	LEU	X	285	56.093	48.480	42.766	0.00	0.00
ATOM	4295	HD22	LEU	X	285	57.022	47.990	44.206	0.00	0.00
ATOM	4296	HD23	LEU	X	285	55.693	46.964	43.693	0.00	0.00
ATOM	4297	C	LEU	X	285	55.267	50.698	47.108	0.00	0.00
ATOM	4298	O	LEU	X	285	56.394	51.131	47.418	0.00	0.00
ATOM	4299	N	PRO	X	286	54.564	49.822	47.871	0.00	0.00
ATOM	4300	CD	PRO	X	286	53.127	49.727	47.940	0.00	0.00
ATOM	4301	HD2	PRO	X	286	52.756	49.132	47.106	0.00	0.00
ATOM	4302	HD3	PRO	X	286	52.758	50.751	47.867	0.00	0.00
ATOM	4303	CG	PRO	X	286	52.763	49.018	49.289	0.00	0.00
ATOM	4304	HG2	PRO	X	286	51.914	48.336	49.302	0.00	0.00
ATOM	4305	HG3	PRO	X	286	52.736	49.827	50.018	0.00	0.00
ATOM	4306	CB	PRO	X	286	54.072	48.240	49.587	0.00	0.00
ATOM	4307	HB2	PRO	X	286	54.093	47.267	49.094	0.00	0.00
ATOM	4308	HB3	PRO	X	286	54.314	48.122	50.643	0.00	0.00
ATOM	4309	CA	PRO	X	286	55.109	49.153	48.993	0.00	0.00
ATOM	4310	HA	PRO	X	286	55.494	49.826	49.759	0.00	0.00
ATOM	4311	C	PRO	X	286	56.379	48.290	48.596	0.00	0.00
ATOM	4312	O	PRO	X	286	56.418	47.826	47.433	0.00	0.00
ATOM	4313	N	GLN	X	287	57.320	48.027	49.472	0.00	0.00
ATOM	4314	H	GLN	X	287	57.111	48.387	50.392	0.00	0.00
ATOM	4315	CA	GLN	X	287	58.523	47.295	49.219	0.00	0.00
ATOM	4316	HA	GLN	X	287	58.417	46.779	48.265	0.00	0.00
ATOM	4317	CB	GLN	X	287	59.730	48.236	49.172	0.00	0.00
ATOM	4318	HB2	GLN	X	287	59.836	48.699	50.153	0.00	0.00
ATOM	4319	HB3	GLN	X	287	60.692	47.742	49.034	0.00	0.00
ATOM	4320	CG	GLN	X	287	59.566	49.356	48.087	0.00	0.00
ATOM	4321	HG2	GLN	X	287	58.799	50.074	48.378	0.00	0.00
ATOM	4322	HG3	GLN	X	287	60.469	49.944	48.247	0.00	0.00
ATOM	4323	CD	GLN	X	287	59.476	48.929	46.588	0.00	0.00
ATOM	4324	OE1	GLN	X	287	59.849	47.823	46.213	0.00	0.00
ATOM	4325	NE2	GLN	X	287	58.901	49.842	45.804	0.00	0.00
ATOM	4326	HE21	GLN	X	287	58.849	49.566	44.834	0.00	0.00
ATOM	4327	HE22	GLN	X	287	58.576	50.741	46.129	0.00	0.00
ATOM	4328	C	GLN	X	287	58.662	46.202	50.229	0.00	0.00
ATOM	4329	O	GLN	X	287	57.947	46.257	51.242	0.00	0.00
ATOM	4330	N	GLU	X	288	59.540	45.175	49.942	0.00	0.00
ATOM	4331	H	GLU	X	288	59.949	45.149	49.019	0.00	0.00
ATOM	4332	CA	GLU	X	288	59.593	43.867	50.697	0.00	0.00
ATOM	4333	HA	GLU	X	288	59.896	43.061	50.028	0.00	0.00
ATOM	4334	CB	GLU	X	288	60.621	43.911	51.827	0.00	0.00
ATOM	4335	HB2	GLU	X	288	60.352	44.732	52.492	0.00	0.00
ATOM	4336	HB3	GLU	X	288	60.564	42.930	52.299	0.00	0.00
ATOM	4337	CG	GLU	X	288	61.995	44.320	51.360	0.00	0.00
ATOM	4338	HG2	GLU	X	288	62.283	43.901	50.395	0.00	0.00
ATOM	4339	HG3	GLU	X	288	61.953	45.384	51.125	0.00	0.00
ATOM	4340	CD	GLU	X	288	63.082	44.042	52.406	0.00	0.00
ATOM	4341	OE1	GLU	X	288	63.455	42.899	52.754	0.00	0.00
ATOM	4342	OE2	GLU	X	288	63.588	45.016	52.988	0.00	0.00
ATOM	4343	C	GLU	X	288	58.166	43.418	51.170	0.00	0.00
ATOM	4344	O	GLU	X	288	57.895	43.175	52.344	0.00	0.00
ATOM	4345	N	SER	X	289	57.225	43.564	50.291	0.00	0.00
ATOM	4346	H	SER	X	289	57.599	43.837	49.393	0.00	0.00
ATOM	4347	CA	SER	X	289	55.750	43.424	50.448	0.00	0.00
ATOM	4348	HA	SER	X	289	55.459	42.806	51.297	0.00	0.00
ATOM	4349	CB	SER	X	289	55.095	44.827	50.629	0.00	0.00
ATOM	4350	HB2	SER	X	289	55.299	45.375	49.710	0.00	0.00
ATOM	4351	HB3	SER	X	289	54.015	44.702	50.710	0.00	0.00
ATOM	4352	OG	SER	X	289	55.609	45.488	51.785	0.00	0.00
ATOM	4353	HG	SER	X	289	56.512	45.774	51.629	0.00	0.00
ATOM	4354	C	SER	X	289	55.108	42.895	49.191	0.00	0.00
ATOM	4355	O	SER	X	289	54.570	43.631	48.344	0.00	0.00
ATOM	4356	N	VAL	X	290	55.229	41.633	48.867	0.00	0.00
ATOM	4357	H	VAL	X	290	55.825	40.958	49.326	0.00	0.00
ATOM	4358	CA	VAL	X	290	54.609	40.886	47.819	0.00	0.00
ATOM	4359	HA	VAL	X	290	54.846	41.402	46.889	0.00	0.00

ATOM	4360	CB	VAL	X	290	55.178	39.462	47.610	0.00	0.00
ATOM	4361	HB	VAL	X	290	55.002	38.916	48.536	0.00	0.00
ATOM	4362	CG1	VAL	X	290	54.496	38.670	46.541	0.00	0.00
ATOM	4363	HG11	VAL	X	290	54.509	39.075	45.529	0.00	0.00
ATOM	4364	HG12	VAL	X	290	54.981	37.694	46.563	0.00	0.00
ATOM	4365	HG13	VAL	X	290	53.433	38.561	46.760	0.00	0.00
ATOM	4366	CG2	VAL	X	290	56.698	39.469	47.354	0.00	0.00
ATOM	4367	HG21	VAL	X	290	57.089	38.457	47.463	0.00	0.00
ATOM	4368	HG22	VAL	X	290	57.184	40.216	47.981	0.00	0.00
ATOM	4369	HG23	VAL	X	290	56.821	39.656	46.287	0.00	0.00
ATOM	4370	C	VAL	X	290	53.055	40.877	47.907	0.00	0.00
ATOM	4371	O	VAL	X	290	52.490	40.644	48.934	0.00	0.00
ATOM	4372	N	PHE	X	291	52.330	41.157	46.841	0.00	0.00
ATOM	4373	H	PHE	X	291	52.931	41.273	46.038	0.00	0.00
ATOM	4374	CA	PHE	X	291	50.874	41.144	46.639	0.00	0.00
ATOM	4375	HA	PHE	X	291	50.703	41.094	45.563	0.00	0.00
ATOM	4376	CB	PHE	X	291	50.200	39.879	47.193	0.00	0.00
ATOM	4377	HB2	PHE	X	291	51.000	39.150	47.062	0.00	0.00
ATOM	4378	HB3	PHE	X	291	50.120	40.107	48.256	0.00	0.00
ATOM	4379	CG	PHE	X	291	48.809	39.429	46.710	0.00	0.00
ATOM	4380	CD1	PHE	X	291	47.832	40.355	46.286	0.00	0.00
ATOM	4381	HD1	PHE	X	291	48.042	41.399	46.107	0.00	0.00
ATOM	4382	CE1	PHE	X	291	46.545	39.943	45.927	0.00	0.00
ATOM	4383	HE1	PHE	X	291	45.792	40.620	45.551	0.00	0.00
ATOM	4384	CZ	PHE	X	291	46.234	38.586	46.162	0.00	0.00
ATOM	4385	HZ	PHE	X	291	45.199	38.282	46.110	0.00	0.00
ATOM	4386	CE2	PHE	X	291	47.268	37.640	46.560	0.00	0.00
ATOM	4387	HE2	PHE	X	291	46.935	36.620	46.681	0.00	0.00
ATOM	4388	CD2	PHE	X	291	48.512	38.097	46.934	0.00	0.00
ATOM	4389	HD2	PHE	X	291	49.327	37.484	47.289	0.00	0.00
ATOM	4390	C	PHE	X	291	50.280	42.456	47.223	0.00	0.00
ATOM	4391	O	PHE	X	291	49.274	42.393	47.899	0.00	0.00
ATOM	4392	N	ARG	X	292	50.859	43.599	46.895	0.00	0.00
ATOM	4393	H	ARG	X	292	51.626	43.531	46.241	0.00	0.00
ATOM	4394	CA	ARG	X	292	50.568	44.993	47.389	0.00	0.00
ATOM	4395	HA	ARG	X	292	49.505	45.051	47.625	0.00	0.00
ATOM	4396	CB	ARG	X	292	51.420	45.453	48.539	0.00	0.00
ATOM	4397	HB2	ARG	X	292	52.423	45.529	48.119	0.00	0.00
ATOM	4398	HB3	ARG	X	292	51.153	46.473	48.814	0.00	0.00
ATOM	4399	CG	ARG	X	292	51.174	44.641	49.836	0.00	0.00
ATOM	4400	HG2	ARG	X	292	51.365	43.595	49.597	0.00	0.00
ATOM	4401	HG3	ARG	X	292	51.920	44.914	50.582	0.00	0.00
ATOM	4402	CD	ARG	X	292	49.719	44.810	50.367	0.00	0.00
ATOM	4403	HD2	ARG	X	292	49.800	45.510	51.199	0.00	0.00
ATOM	4404	HD3	ARG	X	292	48.976	45.069	49.613	0.00	0.00
ATOM	4405	NE	ARG	X	292	49.340	43.513	50.945	0.00	0.00
ATOM	4406	HE	ARG	X	292	49.642	42.709	50.414	0.00	0.00
ATOM	4407	CZ	ARG	X	292	49.220	43.223	52.268	0.00	0.00
ATOM	4408	NH1	ARG	X	292	49.321	44.071	53.236	0.00	0.00
ATOM	4409	HH11	ARG	X	292	49.374	45.072	53.114	0.00	0.00
ATOM	4410	HH12	ARG	X	292	49.376	43.826	54.214	0.00	0.00
ATOM	4411	NH2	ARG	X	292	48.903	41.999	52.605	0.00	0.00
ATOM	4412	HH21	ARG	X	292	48.670	41.279	51.936	0.00	0.00
ATOM	4413	HH22	ARG	X	292	48.815	41.756	53.581	0.00	0.00
ATOM	4414	C	ARG	X	292	50.709	46.033	46.292	0.00	0.00
ATOM	4415	O	ARG	X	292	51.527	45.831	45.370	0.00	0.00
ATOM	4416	N	PHE	X	293	49.888	47.116	46.322	0.00	0.00
ATOM	4417	H	PHE	X	293	49.339	47.285	47.152	0.00	0.00
ATOM	4418	CA	PHE	X	293	49.550	47.910	45.171	0.00	0.00
ATOM	4419	HA	PHE	X	293	50.398	47.745	44.506	0.00	0.00
ATOM	4420	CB	PHE	X	293	48.316	47.496	44.432	0.00	0.00
ATOM	4421	HB2	PHE	X	293	47.390	47.858	44.878	0.00	0.00
ATOM	4422	HB3	PHE	X	293	48.364	48.010	43.472	0.00	0.00
ATOM	4423	CG	PHE	X	293	48.198	46.075	44.126	0.00	0.00
ATOM	4424	CD1	PHE	X	293	49.248	45.441	43.420	0.00	0.00
ATOM	4425	HD1	PHE	X	293	49.983	46.032	42.894	0.00	0.00
ATOM	4426	CE1	PHE	X	293	49.245	44.017	43.251	0.00	0.00

ATOM	4427	HE1	PHE	X	293	50.071	43.480	42.809	0.00	0.00
ATOM	4428	CZ	PHE	X	293	48.190	43.294	43.817	0.00	0.00
ATOM	4429	HZ	PHE	X	293	48.178	42.216	43.752	0.00	0.00
ATOM	4430	CE2	PHE	X	293	47.186	43.956	44.652	0.00	0.00
ATOM	4431	HE2	PHE	X	293	46.446	43.399	45.207	0.00	0.00
ATOM	4432	CD2	PHE	X	293	47.154	45.364	44.752	0.00	0.00
ATOM	4433	HD2	PHE	X	293	46.363	45.881	45.276	0.00	0.00
ATOM	4434	C	PHE	X	293	49.781	49.397	45.503	0.00	0.00
ATOM	4435	O	PHE	X	293	50.184	49.754	46.633	0.00	0.00
ATOM	4436	N	SER	X	294	49.683	50.249	44.534	0.00	0.00
ATOM	4437	H	SER	X	294	49.434	49.857	43.637	0.00	0.00
ATOM	4438	CA	SER	X	294	50.112	51.651	44.673	0.00	0.00
ATOM	4439	HA	SER	X	294	51.040	51.654	45.243	0.00	0.00
ATOM	4440	CB	SER	X	294	50.419	52.133	43.319	0.00	0.00
ATOM	4441	HB2	SER	X	294	50.389	53.222	43.309	0.00	0.00
ATOM	4442	HB3	SER	X	294	51.464	51.843	43.206	0.00	0.00
ATOM	4443	OG	SER	X	294	49.641	51.577	42.229	0.00	0.00
ATOM	4444	HG	SER	X	294	49.142	52.343	41.936	0.00	0.00
ATOM	4445	C	SER	X	294	49.053	52.427	45.518	0.00	0.00
ATOM	4446	O	SER	X	294	49.441	52.965	46.517	0.00	0.00
ATOM	4447	N	PHE	X	295	47.854	52.459	44.981	0.00	0.00
ATOM	4448	H	PHE	X	295	47.748	51.991	44.092	0.00	0.00
ATOM	4449	CA	PHE	X	295	46.657	53.115	45.526	0.00	0.00
ATOM	4450	HA	PHE	X	295	46.819	53.274	46.592	0.00	0.00
ATOM	4451	CB	PHE	X	295	46.499	54.464	44.758	0.00	0.00
ATOM	4452	HB2	PHE	X	295	46.503	54.266	43.687	0.00	0.00
ATOM	4453	HB3	PHE	X	295	45.502	54.869	44.937	0.00	0.00
ATOM	4454	CG	PHE	X	295	47.593	55.428	45.111	0.00	0.00
ATOM	4455	CD1	PHE	X	295	47.632	56.061	46.337	0.00	0.00
ATOM	4456	HD1	PHE	X	295	47.087	55.682	47.189	0.00	0.00
ATOM	4457	CE1	PHE	X	295	48.555	57.074	46.554	0.00	0.00
ATOM	4458	HE1	PHE	X	295	48.642	57.477	47.552	0.00	0.00
ATOM	4459	CZ	PHE	X	295	49.372	57.486	45.536	0.00	0.00
ATOM	4460	HZ	PHE	X	295	50.175	58.165	45.782	0.00	0.00
ATOM	4461	CE2	PHE	X	295	49.376	56.855	44.299	0.00	0.00
ATOM	4462	HE2	PHE	X	295	50.085	56.983	43.495	0.00	0.00
ATOM	4463	CD2	PHE	X	295	48.447	55.845	44.109	0.00	0.00
ATOM	4464	HD2	PHE	X	295	48.343	55.308	43.177	0.00	0.00
ATOM	4465	C	PHE	X	295	45.404	52.191	45.435	0.00	0.00
ATOM	4466	O	PHE	X	295	45.029	51.719	44.391	0.00	0.00
ATOM	4467	N	VAL	X	296	44.827	51.951	46.577	0.00	0.00
ATOM	4468	H	VAL	X	296	45.087	52.637	47.271	0.00	0.00
ATOM	4469	CA	VAL	X	296	43.750	50.946	46.808	0.00	0.00
ATOM	4470	HA	VAL	X	296	43.431	50.635	45.813	0.00	0.00
ATOM	4471	CB	VAL	X	296	44.377	49.732	47.517	0.00	0.00
ATOM	4472	HB	VAL	X	296	43.473	49.123	47.504	0.00	0.00
ATOM	4473	CG1	VAL	X	296	45.586	49.198	46.682	0.00	0.00
ATOM	4474	HG11	VAL	X	296	46.548	49.445	47.133	0.00	0.00
ATOM	4475	HG12	VAL	X	296	45.462	48.117	46.617	0.00	0.00
ATOM	4476	HG13	VAL	X	296	45.508	49.513	45.642	0.00	0.00
ATOM	4477	CG2	VAL	X	296	44.759	50.018	48.977	0.00	0.00
ATOM	4478	HG21	VAL	X	296	45.245	49.108	49.329	0.00	0.00
ATOM	4479	HG22	VAL	X	296	44.001	50.398	49.661	0.00	0.00
ATOM	4480	HG23	VAL	X	296	45.633	50.668	49.031	0.00	0.00
ATOM	4481	C	VAL	X	296	42.564	51.605	47.636	0.00	0.00
ATOM	4482	O	VAL	X	296	42.683	52.865	47.814	0.00	0.00
ATOM	4483	N	PRO	X	297	41.501	50.890	47.938	0.00	0.00
ATOM	4484	CD	PRO	X	297	41.022	49.698	47.288	0.00	0.00
ATOM	4485	HD2	PRO	X	297	41.516	48.761	47.545	0.00	0.00
ATOM	4486	HD3	PRO	X	297	41.130	49.872	46.217	0.00	0.00
ATOM	4487	CG	PRO	X	297	39.515	49.639	47.688	0.00	0.00
ATOM	4488	HG2	PRO	X	297	39.219	48.637	47.996	0.00	0.00
ATOM	4489	HG3	PRO	X	297	38.999	49.997	46.797	0.00	0.00
ATOM	4490	CB	PRO	X	297	39.285	50.593	48.866	0.00	0.00
ATOM	4491	HB2	PRO	X	297	39.254	49.976	49.764	0.00	0.00
ATOM	4492	HB3	PRO	X	297	38.321	51.099	48.808	0.00	0.00
ATOM	4493	CA	PRO	X	297	40.466	51.545	48.760	0.00	0.00

ATOM	4494	HA	PRO	X	297	40.213	52.448	48.203	0.00	0.00
ATOM	4495	C	PRO	X	297	40.919	52.032	50.146	0.00	0.00
ATOM	4496	O	PRO	X	297	41.699	51.434	50.782	0.00	0.00
ATOM	4497	N	VAL	X	298	40.452	53.209	50.556	0.00	0.00
ATOM	4498	H	VAL	X	298	39.706	53.648	50.037	0.00	0.00
ATOM	4499	CA	VAL	X	298	40.951	54.006	51.664	0.00	0.00
ATOM	4500	HA	VAL	X	298	41.881	53.604	52.066	0.00	0.00
ATOM	4501	CB	VAL	X	298	41.386	55.458	51.244	0.00	0.00
ATOM	4502	HB	VAL	X	298	40.475	55.997	50.983	0.00	0.00
ATOM	4503	CG1	VAL	X	298	42.043	56.301	52.392	0.00	0.00
ATOM	4504	HG11	VAL	X	298	42.448	57.199	51.924	0.00	0.00
ATOM	4505	HG12	VAL	X	298	41.299	56.586	53.137	0.00	0.00
ATOM	4506	HG13	VAL	X	298	42.822	55.790	52.958	0.00	0.00
ATOM	4507	CG2	VAL	X	298	42.199	55.577	49.984	0.00	0.00
ATOM	4508	HG21	VAL	X	298	41.644	55.046	49.211	0.00	0.00
ATOM	4509	HG22	VAL	X	298	43.091	54.964	50.107	0.00	0.00
ATOM	4510	HG23	VAL	X	298	42.369	56.594	49.632	0.00	0.00
ATOM	4511	C	VAL	X	298	39.905	53.996	52.855	0.00	0.00
ATOM	4512	O	VAL	X	298	38.689	54.229	52.608	0.00	0.00
ATOM	4513	N	VAL	X	299	40.294	53.754	54.108	0.00	0.00
ATOM	4514	H	VAL	X	299	41.233	53.415	54.263	0.00	0.00
ATOM	4515	CA	VAL	X	299	39.557	53.959	55.354	0.00	0.00
ATOM	4516	HA	VAL	X	299	38.533	53.645	55.149	0.00	0.00
ATOM	4517	CB	VAL	X	299	40.051	53.039	56.538	0.00	0.00
ATOM	4518	HB	VAL	X	299	41.053	53.302	56.875	0.00	0.00
ATOM	4519	CG1	VAL	X	299	39.096	53.045	57.703	0.00	0.00
ATOM	4520	HG11	VAL	X	299	38.132	52.701	57.329	0.00	0.00
ATOM	4521	HG12	VAL	X	299	39.451	52.360	58.472	0.00	0.00
ATOM	4522	HG13	VAL	X	299	38.944	54.039	58.123	0.00	0.00
ATOM	4523	CG2	VAL	X	299	40.121	51.576	56.091	0.00	0.00
ATOM	4524	HG21	VAL	X	299	39.145	51.117	55.935	0.00	0.00
ATOM	4525	HG22	VAL	X	299	40.808	50.988	56.700	0.00	0.00
ATOM	4526	HG23	VAL	X	299	40.585	51.560	55.105	0.00	0.00
ATOM	4527	C	VAL	X	299	39.580	55.468	55.608	0.00	0.00
ATOM	4528	O	VAL	X	299	40.373	55.889	56.402	0.00	0.00
ATOM	4529	N	ASP	X	300	38.697	56.235	54.869	0.00	0.00
ATOM	4530	H	ASP	X	300	38.192	55.630	54.237	0.00	0.00
ATOM	4531	CA	ASP	X	300	38.700	57.705	54.650	0.00	0.00
ATOM	4532	HA	ASP	X	300	39.709	58.043	54.888	0.00	0.00
ATOM	4533	CB	ASP	X	300	38.271	57.941	53.243	0.00	0.00
ATOM	4534	HB2	ASP	X	300	38.554	58.972	53.031	0.00	0.00
ATOM	4535	HB3	ASP	X	300	38.850	57.396	52.498	0.00	0.00
ATOM	4536	CG	ASP	X	300	36.722	57.722	52.902	0.00	0.00
ATOM	4537	OD1	ASP	X	300	36.058	56.879	53.564	0.00	0.00
ATOM	4538	OD2	ASP	X	300	36.237	58.361	51.961	0.00	0.00
ATOM	4539	C	ASP	X	300	37.876	58.591	55.648	0.00	0.00
ATOM	4540	O	ASP	X	300	38.202	59.738	55.805	0.00	0.00
ATOM	4541	N	GLY	X	301	36.824	58.007	56.277	0.00	0.00
ATOM	4542	H	GLY	X	301	36.689	57.062	55.948	0.00	0.00
ATOM	4543	CA	GLY	X	301	35.905	58.561	57.279	0.00	0.00
ATOM	4544	HA2	GLY	X	301	35.784	57.980	58.193	0.00	0.00
ATOM	4545	HA3	GLY	X	301	36.308	59.525	57.590	0.00	0.00
ATOM	4546	C	GLY	X	301	34.485	58.720	56.740	0.00	0.00
ATOM	4547	O	GLY	X	301	33.643	59.313	57.425	0.00	0.00
ATOM	4548	N	ASP	X	302	34.210	58.295	55.541	0.00	0.00
ATOM	4549	H	ASP	X	302	34.945	57.912	54.964	0.00	0.00
ATOM	4550	CA	ASP	X	302	32.838	58.465	54.915	0.00	0.00
ATOM	4551	HA	ASP	X	302	32.003	58.713	55.570	0.00	0.00
ATOM	4552	CB	ASP	X	302	32.907	59.709	53.991	0.00	0.00
ATOM	4553	HB2	ASP	X	302	33.335	60.470	54.643	0.00	0.00
ATOM	4554	HB3	ASP	X	302	33.669	59.529	53.233	0.00	0.00
ATOM	4555	CG	ASP	X	302	31.615	60.131	53.227	0.00	0.00
ATOM	4556	OD1	ASP	X	302	31.743	61.154	52.543	0.00	0.00
ATOM	4557	OD2	ASP	X	302	30.545	59.467	53.283	0.00	0.00
ATOM	4558	C	ASP	X	302	32.560	57.222	54.077	0.00	0.00
ATOM	4559	O	ASP	X	302	31.554	56.549	54.338	0.00	0.00
ATOM	4560	N	PHE	X	303	33.322	56.744	53.089	0.00	0.00

ATOM	4561	H	PHE	X	303	34.256	57.125	53.034	0.00	0.00
ATOM	4562	CA	PHE	X	303	33.162	55.477	52.320	0.00	0.00
ATOM	4563	HA	PHE	X	303	32.161	55.521	51.891	0.00	0.00
ATOM	4564	CB	PHE	X	303	34.097	55.521	51.036	0.00	0.00
ATOM	4565	HB2	PHE	X	303	34.261	56.576	50.815	0.00	0.00
ATOM	4566	HB3	PHE	X	303	35.071	55.071	51.227	0.00	0.00
ATOM	4567	CG	PHE	X	303	33.460	54.765	49.906	0.00	0.00
ATOM	4568	CD1	PHE	X	303	33.701	53.416	49.809	0.00	0.00
ATOM	4569	HD1	PHE	X	303	34.414	52.940	50.466	0.00	0.00
ATOM	4570	CE1	PHE	X	303	33.054	52.712	48.795	0.00	0.00
ATOM	4571	HE1	PHE	X	303	33.193	51.652	48.641	0.00	0.00
ATOM	4572	CZ	PHE	X	303	32.034	53.295	48.017	0.00	0.00
ATOM	4573	HZ	PHE	X	303	31.431	52.663	47.383	0.00	0.00
ATOM	4574	CE2	PHE	X	303	31.884	54.654	48.088	0.00	0.00
ATOM	4575	HE2	PHE	X	303	31.146	55.129	47.459	0.00	0.00
ATOM	4576	CD2	PHE	X	303	32.658	55.438	49.014	0.00	0.00
ATOM	4577	HD2	PHE	X	303	32.393	56.465	49.220	0.00	0.00
ATOM	4578	C	PHE	X	303	33.419	54.305	53.257	0.00	0.00
ATOM	4579	O	PHE	X	303	32.657	53.352	53.193	0.00	0.00
ATOM	4580	N	LEU	X	304	34.500	54.367	54.012	0.00	0.00
ATOM	4581	H	LEU	X	304	35.058	55.197	53.876	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.690	53.366	55.131	0.00	0.00
ATOM	4583	HA	LEU	X	304	33.835	52.697	55.233	0.00	0.00
ATOM	4584	CB	LEU	X	304	35.890	52.482	54.727	0.00	0.00
ATOM	4585	HB2	LEU	X	304	36.609	53.230	54.392	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.236	52.014	55.649	0.00	0.00
ATOM	4587	CG	LEU	X	304	35.726	51.490	53.569	0.00	0.00
ATOM	4588	HG	LEU	X	304	35.267	51.983	52.712	0.00	0.00
ATOM	4589	CD1	LEU	X	304	37.056	50.920	53.245	0.00	0.00
ATOM	4590	HD11	LEU	X	304	37.805	51.655	52.949	0.00	0.00
ATOM	4591	HD12	LEU	X	304	36.967	50.105	52.528	0.00	0.00
ATOM	4592	HD13	LEU	X	304	37.508	50.365	54.068	0.00	0.00
ATOM	4593	CD2	LEU	X	304	34.620	50.435	53.854	0.00	0.00
ATOM	4594	HD21	LEU	X	304	33.702	51.013	53.746	0.00	0.00
ATOM	4595	HD22	LEU	X	304	34.608	49.562	53.202	0.00	0.00
ATOM	4596	HD23	LEU	X	304	34.669	50.084	54.885	0.00	0.00
ATOM	4597	C	LEU	X	304	34.865	54.161	56.437	0.00	0.00
ATOM	4598	O	LEU	X	304	35.715	55.066	56.560	0.00	0.00
ATOM	4599	N	SER	X	305	34.001	53.906	57.363	0.00	0.00
ATOM	4600	H	SER	X	305	33.314	53.230	57.061	0.00	0.00
ATOM	4601	CA	SER	X	305	34.045	54.521	58.692	0.00	0.00
ATOM	4602	HA	SER	X	305	34.362	55.553	58.545	0.00	0.00
ATOM	4603	CB	SER	X	305	32.641	54.515	59.284	0.00	0.00
ATOM	4604	HB2	SER	X	305	32.785	54.964	60.267	0.00	0.00
ATOM	4605	HB3	SER	X	305	31.925	55.115	58.723	0.00	0.00
ATOM	4606	OG	SER	X	305	32.220	53.184	59.448	0.00	0.00
ATOM	4607	HG	SER	X	305	31.893	52.946	58.577	0.00	0.00
ATOM	4608	C	SER	X	305	35.169	53.971	59.582	0.00	0.00
ATOM	4609	O	SER	X	305	35.902	54.789	60.207	0.00	0.00
ATOM	4610	N	ASP	X	306	35.361	52.616	59.649	0.00	0.00
ATOM	4611	H	ASP	X	306	34.643	52.100	59.162	0.00	0.00
ATOM	4612	CA	ASP	X	306	36.503	51.833	60.070	0.00	0.00
ATOM	4613	HA	ASP	X	306	37.324	52.519	60.276	0.00	0.00
ATOM	4614	CB	ASP	X	306	36.132	51.222	61.447	0.00	0.00
ATOM	4615	HB2	ASP	X	306	35.571	51.955	62.028	0.00	0.00
ATOM	4616	HB3	ASP	X	306	35.596	50.280	61.330	0.00	0.00
ATOM	4617	CG	ASP	X	306	37.337	51.025	62.408	0.00	0.00
ATOM	4618	OD1	ASP	X	306	37.309	51.439	63.616	0.00	0.00
ATOM	4619	OD2	ASP	X	306	38.368	50.429	61.972	0.00	0.00
ATOM	4620	C	ASP	X	306	36.941	50.789	58.978	0.00	0.00
ATOM	4621	O	ASP	X	306	36.307	50.530	57.942	0.00	0.00
ATOM	4622	N	THR	X	307	37.993	50.034	59.302	0.00	0.00
ATOM	4623	H	THR	X	307	38.388	50.187	60.219	0.00	0.00
ATOM	4624	CA	THR	X	307	38.540	48.996	58.443	0.00	0.00
ATOM	4625	HA	THR	X	307	38.737	49.411	57.454	0.00	0.00
ATOM	4626	CB	THR	X	307	39.879	48.548	59.057	0.00	0.00
ATOM	4627	HB	THR	X	307	39.551	48.093	59.991	0.00	0.00

ATOM	4628	CG2	THR	X	307	40.654	47.472	58.303	0.00	0.00
ATOM	4629	HG21	THR	X	307	41.610	47.232	58.769	0.00	0.00
ATOM	4630	HG22	THR	X	307	40.682	47.858	57.284	0.00	0.00
ATOM	4631	HG23	THR	X	307	40.047	46.573	58.403	0.00	0.00
ATOM	4632	OG1	THR	X	307	40.721	49.656	59.205	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.555	49.341	59.560	0.00	0.00
ATOM	4634	C	THR	X	307	37.629	47.766	58.419	0.00	0.00
ATOM	4635	O	THR	X	307	37.207	47.213	59.377	0.00	0.00
ATOM	4636	N	PRO	X	308	37.253	47.336	57.186	0.00	0.00
ATOM	4637	CD	PRO	X	308	37.966	47.573	55.937	0.00	0.00
ATOM	4638	HD2	PRO	X	308	39.033	47.361	56.006	0.00	0.00
ATOM	4639	HD3	PRO	X	308	37.795	48.598	55.605	0.00	0.00
ATOM	4640	CG	PRO	X	308	37.238	46.543	55.040	0.00	0.00
ATOM	4641	HG2	PRO	X	308	37.627	45.535	55.177	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.362	46.814	53.991	0.00	0.00
ATOM	4643	CB	PRO	X	308	35.824	46.538	55.503	0.00	0.00
ATOM	4644	HB2	PRO	X	308	35.364	45.576	55.279	0.00	0.00
ATOM	4645	HB3	PRO	X	308	35.198	47.356	55.147	0.00	0.00
ATOM	4646	CA	PRO	X	308	35.962	46.703	56.959	0.00	0.00
ATOM	4647	HA	PRO	X	308	35.273	47.501	57.237	0.00	0.00
ATOM	4648	C	PRO	X	308	35.717	45.354	57.728	0.00	0.00
ATOM	4649	O	PRO	X	308	34.576	45.211	58.133	0.00	0.00
ATOM	4650	N	GLU	X	309	36.683	44.574	58.174	0.00	0.00
ATOM	4651	H	GLU	X	309	37.597	44.812	57.816	0.00	0.00
ATOM	4652	CA	GLU	X	309	36.405	43.422	59.028	0.00	0.00
ATOM	4653	HA	GLU	X	309	35.635	42.822	58.544	0.00	0.00
ATOM	4654	CB	GLU	X	309	37.729	42.567	59.308	0.00	0.00
ATOM	4655	HB2	GLU	X	309	38.247	42.429	58.359	0.00	0.00
ATOM	4656	HB3	GLU	X	309	38.516	43.129	59.811	0.00	0.00
ATOM	4657	CG	GLU	X	309	37.546	41.249	60.051	0.00	0.00
ATOM	4658	HG2	GLU	X	309	37.092	41.505	61.008	0.00	0.00
ATOM	4659	HG3	GLU	X	309	36.894	40.570	59.501	0.00	0.00
ATOM	4660	CD	GLU	X	309	38.764	40.385	60.352	0.00	0.00
ATOM	4661	OE1	GLU	X	309	38.763	39.793	61.383	0.00	0.00
ATOM	4662	OE2	GLU	X	309	39.694	40.443	59.569	0.00	0.00
ATOM	4663	C	GLU	X	309	35.838	43.765	60.422	0.00	0.00
ATOM	4664	O	GLU	X	309	35.106	42.893	60.934	0.00	0.00
ATOM	4665	N	ALA	X	310	35.946	44.998	60.916	0.00	0.00
ATOM	4666	H	ALA	X	310	36.621	45.613	60.484	0.00	0.00
ATOM	4667	CA	ALA	X	310	35.133	45.363	62.075	0.00	0.00
ATOM	4668	HA	ALA	X	310	35.271	44.638	62.877	0.00	0.00
ATOM	4669	CB	ALA	X	310	35.745	46.687	62.501	0.00	0.00
ATOM	4670	HB1	ALA	X	310	35.850	47.350	61.643	0.00	0.00
ATOM	4671	HB2	ALA	X	310	36.722	46.503	62.947	0.00	0.00
ATOM	4672	HB3	ALA	X	310	35.156	47.187	63.270	0.00	0.00
ATOM	4673	C	ALA	X	310	33.629	45.637	61.900	0.00	0.00
ATOM	4674	O	ALA	X	310	32.828	45.373	62.759	0.00	0.00
ATOM	4675	N	LEU	X	311	33.318	46.157	60.666	0.00	0.00
ATOM	4676	H	LEU	X	311	34.106	46.577	60.194	0.00	0.00
ATOM	4677	CA	LEU	X	311	31.947	46.432	60.258	0.00	0.00
ATOM	4678	HA	LEU	X	311	31.370	46.822	61.097	0.00	0.00
ATOM	4679	CB	LEU	X	311	32.078	47.418	59.065	0.00	0.00
ATOM	4680	HB2	LEU	X	311	32.520	46.887	58.222	0.00	0.00
ATOM	4681	HB3	LEU	X	311	31.058	47.736	58.849	0.00	0.00
ATOM	4682	CG	LEU	X	311	32.956	48.743	59.203	0.00	0.00
ATOM	4683	HG	LEU	X	311	34.001	48.510	59.408	0.00	0.00
ATOM	4684	CD1	LEU	X	311	32.723	49.465	57.919	0.00	0.00
ATOM	4685	HD11	LEU	X	311	33.355	50.353	57.929	0.00	0.00
ATOM	4686	HD12	LEU	X	311	31.674	49.681	57.717	0.00	0.00
ATOM	4687	HD13	LEU	X	311	33.091	48.866	57.086	0.00	0.00
ATOM	4688	CD2	LEU	X	311	32.515	49.637	60.374	0.00	0.00
ATOM	4689	HD21	LEU	X	311	31.439	49.807	60.331	0.00	0.00
ATOM	4690	HD22	LEU	X	311	32.822	49.108	61.276	0.00	0.00
ATOM	4691	HD23	LEU	X	311	32.975	50.615	60.516	0.00	0.00
ATOM	4692	C	LEU	X	311	31.375	45.074	59.807	0.00	0.00
ATOM	4693	O	LEU	X	311	30.166	44.941	59.995	0.00	0.00
ATOM	4694	N	ILE	X	312	32.057	44.077	59.260	0.00	0.00

ATOM	4695	H	ILE	X	312	33.023	44.270	59.039	0.00	0.00
ATOM	4696	CA	ILE	X	312	31.537	42.719	58.989	0.00	0.00
ATOM	4697	HA	ILE	X	312	30.529	42.800	58.583	0.00	0.00
ATOM	4698	CB	ILE	X	312	32.356	42.065	57.839	0.00	0.00
ATOM	4699	HB	ILE	X	312	33.372	42.013	58.233	0.00	0.00
ATOM	4700	CG2	ILE	X	312	31.835	40.647	57.487	0.00	0.00
ATOM	4701	HG21	ILE	X	312	31.183	40.301	58.288	0.00	0.00
ATOM	4702	HG22	ILE	X	312	32.652	39.936	57.359	0.00	0.00
ATOM	4703	HG23	ILE	X	312	31.314	40.665	56.529	0.00	0.00
ATOM	4704	CG1	ILE	X	312	32.484	43.001	56.549	0.00	0.00
ATOM	4705	HG12	ILE	X	312	31.512	43.003	56.055	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.649	44.037	56.846	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.594	42.442	55.545	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.597	43.226	54.788	0.00	0.00
ATOM	4709	HD12	ILE	X	312	33.383	41.496	55.046	0.00	0.00
ATOM	4710	HD13	ILE	X	312	34.500	42.404	56.150	0.00	0.00
ATOM	4711	C	ILE	X	312	31.493	41.874	60.272	0.00	0.00
ATOM	4712	O	ILE	X	312	30.549	41.109	60.470	0.00	0.00
ATOM	4713	N	ASN	X	313	32.336	42.176	61.308	0.00	0.00
ATOM	4714	H	ASN	X	313	33.130	42.776	61.135	0.00	0.00
ATOM	4715	CA	ASN	X	313	32.133	41.721	62.667	0.00	0.00
ATOM	4716	HA	ASN	X	313	32.030	40.637	62.727	0.00	0.00
ATOM	4717	CB	ASN	X	313	33.281	42.104	63.573	0.00	0.00
ATOM	4718	HB2	ASN	X	313	34.075	41.406	63.308	0.00	0.00
ATOM	4719	HB3	ASN	X	313	33.620	43.139	63.524	0.00	0.00
ATOM	4720	CG	ASN	X	313	33.046	41.885	65.096	0.00	0.00
ATOM	4721	OD1	ASN	X	313	32.735	40.761	65.453	0.00	0.00
ATOM	4722	ND2	ASN	X	313	33.376	42.729	65.981	0.00	0.00
ATOM	4723	HD21	ASN	X	313	33.159	42.460	66.930	0.00	0.00
ATOM	4724	HD22	ASN	X	313	33.532	43.703	65.762	0.00	0.00
ATOM	4725	C	ASN	X	313	30.847	42.188	63.376	0.00	0.00
ATOM	4726	O	ASN	X	313	30.245	41.478	64.164	0.00	0.00
ATOM	4727	N	ALA	X	314	30.504	43.464	63.113	0.00	0.00
ATOM	4728	H	ALA	X	314	31.125	44.004	62.528	0.00	0.00
ATOM	4729	CA	ALA	X	314	29.337	44.116	63.659	0.00	0.00
ATOM	4730	HA	ALA	X	314	28.904	43.571	64.498	0.00	0.00
ATOM	4731	CB	ALA	X	314	29.730	45.511	64.127	0.00	0.00
ATOM	4732	HB1	ALA	X	314	28.903	46.093	64.535	0.00	0.00
ATOM	4733	HB2	ALA	X	314	30.168	46.116	63.333	0.00	0.00
ATOM	4734	HB3	ALA	X	314	30.530	45.335	64.846	0.00	0.00
ATOM	4735	C	ALA	X	314	28.187	44.188	62.623	0.00	0.00
ATOM	4736	O	ALA	X	314	27.320	45.024	62.737	0.00	0.00
ATOM	4737	N	GLY	X	315	28.247	43.453	61.496	0.00	0.00
ATOM	4738	H	GLY	X	315	29.051	42.841	61.495	0.00	0.00
ATOM	4739	CA	GLY	X	315	27.246	43.454	60.447	0.00	0.00
ATOM	4740	HA2	GLY	X	315	26.737	44.415	60.367	0.00	0.00
ATOM	4741	HA3	GLY	X	315	27.743	43.135	59.531	0.00	0.00
ATOM	4742	C	GLY	X	315	26.096	42.397	60.569	0.00	0.00
ATOM	4743	O	GLY	X	315	26.170	41.395	61.257	0.00	0.00
ATOM	4744	N	ASP	X	316	25.045	42.780	59.875	0.00	0.00
ATOM	4745	H	ASP	X	316	25.031	43.616	59.308	0.00	0.00
ATOM	4746	CA	ASP	X	316	23.868	41.942	59.630	0.00	0.00
ATOM	4747	HA	ASP	X	316	23.886	40.996	60.173	0.00	0.00
ATOM	4748	CB	ASP	X	316	22.627	42.680	60.221	0.00	0.00
ATOM	4749	HB2	ASP	X	316	22.959	43.215	61.110	0.00	0.00
ATOM	4750	HB3	ASP	X	316	22.227	43.325	59.439	0.00	0.00
ATOM	4751	CG	ASP	X	316	21.416	41.779	60.531	0.00	0.00
ATOM	4752	OD1	ASP	X	316	20.743	41.338	59.584	0.00	0.00
ATOM	4753	OD2	ASP	X	316	21.042	41.650	61.728	0.00	0.00
ATOM	4754	C	ASP	X	316	23.712	41.695	58.079	0.00	0.00
ATOM	4755	O	ASP	X	316	23.999	42.646	57.328	0.00	0.00
ATOM	4756	N	PHE	X	317	23.321	40.494	57.757	0.00	0.00
ATOM	4757	H	PHE	X	317	23.189	39.835	58.511	0.00	0.00
ATOM	4758	CA	PHE	X	317	23.171	39.970	56.421	0.00	0.00
ATOM	4759	HA	PHE	X	317	23.408	40.794	55.748	0.00	0.00
ATOM	4760	CB	PHE	X	317	24.308	38.998	56.312	0.00	0.00
ATOM	4761	HB2	PHE	X	317	24.262	38.237	57.091	0.00	0.00

ATOM	4762	HB3	PHE	X	317	24.275	38.491	55.348	0.00	0.00
ATOM	4763	CG	PHE	X	317	25.682	39.720	56.400	0.00	0.00
ATOM	4764	CD1	PHE	X	317	26.182	40.399	55.235	0.00	0.00
ATOM	4765	HD1	PHE	X	317	25.703	40.307	54.271	0.00	0.00
ATOM	4766	CE1	PHE	X	317	27.452	41.048	55.310	0.00	0.00
ATOM	4767	HE1	PHE	X	317	27.869	41.469	54.407	0.00	0.00
ATOM	4768	CZ	PHE	X	317	28.132	41.143	56.531	0.00	0.00
ATOM	4769	HZ	PHE	X	317	29.142	41.518	56.602	0.00	0.00
ATOM	4770	CE2	PHE	X	317	27.570	40.592	57.673	0.00	0.00
ATOM	4771	HE2	PHE	X	317	28.010	40.599	58.659	0.00	0.00
ATOM	4772	CD2	PHE	X	317	26.354	39.882	57.632	0.00	0.00
ATOM	4773	HD2	PHE	X	317	25.935	39.422	58.515	0.00	0.00
ATOM	4774	C	PHE	X	317	21.841	39.369	56.098	0.00	0.00
ATOM	4775	O	PHE	X	317	21.684	38.621	55.212	0.00	0.00
ATOM	4776	N	HIE	X	318	20.784	39.668	56.880	0.00	0.00
ATOM	4777	H	HIE	X	318	21.051	40.194	57.699	0.00	0.00
ATOM	4778	CA	HIE	X	318	19.444	39.159	56.783	0.00	0.00
ATOM	4779	HA	HIE	X	318	19.650	38.089	56.768	0.00	0.00
ATOM	4780	CB	HIE	X	318	18.669	39.385	58.030	0.00	0.00
ATOM	4781	HB2	HIE	X	318	19.227	38.810	58.770	0.00	0.00
ATOM	4782	HB3	HIE	X	318	18.593	40.409	58.394	0.00	0.00
ATOM	4783	CG	HIE	X	318	17.256	38.797	57.986	0.00	0.00
ATOM	4784	ND1	HIE	X	318	16.835	37.656	57.258	0.00	0.00
ATOM	4785	CE1	HIE	X	318	15.589	37.355	57.624	0.00	0.00
ATOM	4786	HE1	HIE	X	318	15.017	36.520	57.249	0.00	0.00
ATOM	4787	NE2	HIE	X	318	15.193	38.244	58.511	0.00	0.00
ATOM	4788	HE2	HIE	X	318	14.275	38.253	58.932	0.00	0.00
ATOM	4789	CD2	HIE	X	318	16.237	39.074	58.848	0.00	0.00
ATOM	4790	HD2	HIE	X	318	16.332	39.869	59.573	0.00	0.00
ATOM	4791	C	HIE	X	318	18.803	39.435	55.448	0.00	0.00
ATOM	4792	O	HIE	X	318	18.553	40.583	55.130	0.00	0.00
ATOM	4793	N	GLY	X	319	18.499	38.410	54.598	0.00	0.00
ATOM	4794	H	GLY	X	319	18.726	37.458	54.850	0.00	0.00
ATOM	4795	CA	GLY	X	319	17.957	38.621	53.274	0.00	0.00
ATOM	4796	HA2	GLY	X	319	17.451	37.663	53.155	0.00	0.00
ATOM	4797	HA3	GLY	X	319	17.308	39.484	53.122	0.00	0.00
ATOM	4798	C	GLY	X	319	18.891	38.588	52.109	0.00	0.00
ATOM	4799	O	GLY	X	319	18.578	39.095	51.048	0.00	0.00
ATOM	4800	N	LEU	X	320	20.093	38.020	52.262	0.00	0.00
ATOM	4801	H	LEU	X	320	20.278	37.526	53.123	0.00	0.00
ATOM	4802	CA	LEU	X	320	21.182	38.072	51.229	0.00	0.00
ATOM	4803	HA	LEU	X	320	20.744	38.529	50.341	0.00	0.00
ATOM	4804	CB	LEU	X	320	22.328	38.939	51.670	0.00	0.00
ATOM	4805	HB2	LEU	X	320	22.593	38.831	52.722	0.00	0.00
ATOM	4806	HB3	LEU	X	320	23.194	38.745	51.037	0.00	0.00
ATOM	4807	CG	LEU	X	320	22.067	40.497	51.493	0.00	0.00
ATOM	4808	HG	LEU	X	320	21.068	40.689	51.886	0.00	0.00
ATOM	4809	CD1	LEU	X	320	23.021	41.292	52.308	0.00	0.00
ATOM	4810	HD11	LEU	X	320	22.772	41.234	53.368	0.00	0.00
ATOM	4811	HD12	LEU	X	320	22.945	42.357	52.093	0.00	0.00
ATOM	4812	HD13	LEU	X	320	24.017	40.890	52.119	0.00	0.00
ATOM	4813	CD2	LEU	X	320	22.129	40.989	50.084	0.00	0.00
ATOM	4814	HD21	LEU	X	320	21.695	40.334	49.328	0.00	0.00
ATOM	4815	HD22	LEU	X	320	21.683	41.976	49.959	0.00	0.00
ATOM	4816	HD23	LEU	X	320	23.168	41.067	49.764	0.00	0.00
ATOM	4817	C	LEU	X	320	21.655	36.658	50.908	0.00	0.00
ATOM	4818	O	LEU	X	320	21.868	35.920	51.888	0.00	0.00
ATOM	4819	N	GLN	X	321	21.958	36.305	49.701	0.00	0.00
ATOM	4820	H	GLN	X	321	21.892	36.952	48.928	0.00	0.00
ATOM	4821	CA	GLN	X	321	22.673	35.186	49.191	0.00	0.00
ATOM	4822	HA	GLN	X	321	22.893	34.578	50.068	0.00	0.00
ATOM	4823	CB	GLN	X	321	21.732	34.420	48.190	0.00	0.00
ATOM	4824	HB2	GLN	X	321	21.673	35.014	47.277	0.00	0.00
ATOM	4825	HB3	GLN	X	321	22.162	33.463	47.896	0.00	0.00
ATOM	4826	CG	GLN	X	321	20.297	34.075	48.631	0.00	0.00
ATOM	4827	HG2	GLN	X	321	19.901	33.235	48.061	0.00	0.00
ATOM	4828	HG3	GLN	X	321	20.327	33.704	49.656	0.00	0.00

ATOM	4829	CD	GLN	X	321	19.260	35.248	48.417	0.00	0.00
ATOM	4830	OE1	GLN	X	321	19.183	35.786	47.358	0.00	0.00
ATOM	4831	NE2	GLN	X	321	18.527	35.643	49.440	0.00	0.00
ATOM	4832	HE21	GLN	X	321	17.736	36.254	49.290	0.00	0.00
ATOM	4833	HE22	GLN	X	321	18.631	35.262	50.369	0.00	0.00
ATOM	4834	C	GLN	X	321	24.080	35.719	48.656	0.00	0.00
ATOM	4835	O	GLN	X	321	24.100	36.774	48.027	0.00	0.00
ATOM	4836	N	VAL	X	322	25.152	34.988	48.865	0.00	0.00
ATOM	4837	H	VAL	X	322	25.106	34.142	49.414	0.00	0.00
ATOM	4838	CA	VAL	X	322	26.451	35.393	48.353	0.00	0.00
ATOM	4839	HA	VAL	X	322	26.376	36.031	47.472	0.00	0.00
ATOM	4840	CB	VAL	X	322	27.223	36.185	49.386	0.00	0.00
ATOM	4841	HB	VAL	X	322	27.528	35.549	50.217	0.00	0.00
ATOM	4842	CG1	VAL	X	322	28.559	36.642	48.765	0.00	0.00
ATOM	4843	HG11	VAL	X	322	28.426	37.046	47.762	0.00	0.00
ATOM	4844	HG12	VAL	X	322	29.150	37.254	49.446	0.00	0.00
ATOM	4845	HG13	VAL	X	322	29.165	35.737	48.717	0.00	0.00
ATOM	4846	CG2	VAL	X	322	26.567	37.451	49.999	0.00	0.00
ATOM	4847	HG21	VAL	X	322	27.304	38.114	50.453	0.00	0.00
ATOM	4848	HG22	VAL	X	322	25.883	37.202	50.810	0.00	0.00
ATOM	4849	HG23	VAL	X	322	26.007	37.951	49.209	0.00	0.00
ATOM	4850	C	VAL	X	322	27.241	34.123	47.967	0.00	0.00
ATOM	4851	O	VAL	X	322	27.306	33.120	48.764	0.00	0.00
ATOM	4852	N	LEU	X	323	27.680	34.075	46.736	0.00	0.00
ATOM	4853	H	LEU	X	323	27.548	34.930	46.213	0.00	0.00
ATOM	4854	CA	LEU	X	323	28.495	33.044	46.151	0.00	0.00
ATOM	4855	HA	LEU	X	323	28.420	32.132	46.744	0.00	0.00
ATOM	4856	CB	LEU	X	323	28.112	32.611	44.768	0.00	0.00
ATOM	4857	HB2	LEU	X	323	27.033	32.660	44.624	0.00	0.00
ATOM	4858	HB3	LEU	X	323	28.523	33.385	44.121	0.00	0.00
ATOM	4859	CG	LEU	X	323	28.646	31.174	44.277	0.00	0.00
ATOM	4860	HG	LEU	X	323	28.637	30.435	45.078	0.00	0.00
ATOM	4861	CD1	LEU	X	323	27.802	30.658	43.068	0.00	0.00
ATOM	4862	HD11	LEU	X	323	26.947	30.053	43.371	0.00	0.00
ATOM	4863	HD12	LEU	X	323	28.361	30.010	42.393	0.00	0.00
ATOM	4864	HD13	LEU	X	323	27.392	31.495	42.504	0.00	0.00
ATOM	4865	CD2	LEU	X	323	30.175	31.081	43.874	0.00	0.00
ATOM	4866	HD21	LEU	X	323	30.299	30.120	43.375	0.00	0.00
ATOM	4867	HD22	LEU	X	323	30.408	31.744	43.041	0.00	0.00
ATOM	4868	HD23	LEU	X	323	30.840	31.169	44.733	0.00	0.00
ATOM	4869	C	LEU	X	323	29.908	33.588	46.368	0.00	0.00
ATOM	4870	O	LEU	X	323	30.151	34.824	46.202	0.00	0.00
ATOM	4871	N	VAL	X	324	30.827	32.813	46.968	0.00	0.00
ATOM	4872	H	VAL	X	324	30.668	31.816	47.005	0.00	0.00
ATOM	4873	CA	VAL	X	324	32.212	33.251	47.335	0.00	0.00
ATOM	4874	HA	VAL	X	324	32.514	34.190	46.871	0.00	0.00
ATOM	4875	CB	VAL	X	324	32.508	33.457	48.834	0.00	0.00
ATOM	4876	HB	VAL	X	324	33.553	33.768	48.846	0.00	0.00
ATOM	4877	CG1	VAL	X	324	31.725	34.515	49.514	0.00	0.00
ATOM	4878	HG11	VAL	X	324	30.669	34.258	49.591	0.00	0.00
ATOM	4879	HG12	VAL	X	324	32.193	34.650	50.489	0.00	0.00
ATOM	4880	HG13	VAL	X	324	31.800	35.456	48.970	0.00	0.00
ATOM	4881	CG2	VAL	X	324	32.256	32.092	49.564	0.00	0.00
ATOM	4882	HG21	VAL	X	324	31.231	31.740	49.445	0.00	0.00
ATOM	4883	HG22	VAL	X	324	32.392	32.276	50.630	0.00	0.00
ATOM	4884	HG23	VAL	X	324	32.919	31.304	49.206	0.00	0.00
ATOM	4885	C	VAL	X	324	33.063	32.053	46.748	0.00	0.00
ATOM	4886	O	VAL	X	324	32.651	30.914	46.670	0.00	0.00
ATOM	4887	N	GLY	X	325	34.342	32.372	46.473	0.00	0.00
ATOM	4888	H	GLY	X	325	34.750	33.296	46.443	0.00	0.00
ATOM	4889	CA	GLY	X	325	35.311	31.361	46.301	0.00	0.00
ATOM	4890	HA2	GLY	X	325	35.686	31.067	47.282	0.00	0.00
ATOM	4891	HA3	GLY	X	325	34.929	30.485	45.777	0.00	0.00
ATOM	4892	C	GLY	X	325	36.560	31.761	45.521	0.00	0.00
ATOM	4893	O	GLY	X	325	36.872	32.985	45.442	0.00	0.00
ATOM	4894	N	VAL	X	326	37.377	30.775	45.163	0.00	0.00
ATOM	4895	H	VAL	X	326	37.065	29.878	45.508	0.00	0.00

ATOM	4896	CA	VAL	X	326	38.806	30.951	44.955	0.00	0.00
ATOM	4897	HA	VAL	X	326	39.004	31.890	44.439	0.00	0.00
ATOM	4898	CB	VAL	X	326	39.671	31.019	46.319	0.00	0.00
ATOM	4899	HB	VAL	X	326	40.741	31.014	46.112	0.00	0.00
ATOM	4900	CG1	VAL	X	326	39.210	32.091	47.247	0.00	0.00
ATOM	4901	HG11	VAL	X	326	39.033	33.106	46.890	0.00	0.00
ATOM	4902	HG12	VAL	X	326	38.236	31.756	47.603	0.00	0.00
ATOM	4903	HG13	VAL	X	326	39.910	32.049	48.082	0.00	0.00
ATOM	4904	CG2	VAL	X	326	39.398	29.764	47.138	0.00	0.00
ATOM	4905	HG21	VAL	X	326	38.331	29.717	47.360	0.00	0.00
ATOM	4906	HG22	VAL	X	326	39.843	29.735	48.133	0.00	0.00
ATOM	4907	HG23	VAL	X	326	39.709	28.868	46.602	0.00	0.00
ATOM	4908	C	VAL	X	326	39.355	29.821	44.083	0.00	0.00
ATOM	4909	O	VAL	X	326	38.742	28.727	43.900	0.00	0.00
ATOM	4910	N	VAL	X	327	40.531	30.107	43.560	0.00	0.00
ATOM	4911	H	VAL	X	327	40.927	30.996	43.830	0.00	0.00
ATOM	4912	CA	VAL	X	327	41.347	29.172	42.782	0.00	0.00
ATOM	4913	HA	VAL	X	327	40.662	28.460	42.321	0.00	0.00
ATOM	4914	CB	VAL	X	327	42.125	29.726	41.580	0.00	0.00
ATOM	4915	HB	VAL	X	327	42.738	28.996	41.052	0.00	0.00
ATOM	4916	CG1	VAL	X	327	41.095	30.328	40.566	0.00	0.00
ATOM	4917	HG11	VAL	X	327	40.228	29.720	40.306	0.00	0.00
ATOM	4918	HG12	VAL	X	327	40.679	31.284	40.882	0.00	0.00
ATOM	4919	HG13	VAL	X	327	41.567	30.416	39.587	0.00	0.00
ATOM	4920	CG2	VAL	X	327	43.162	30.782	42.025	0.00	0.00
ATOM	4921	HG21	VAL	X	327	43.648	30.951	41.065	0.00	0.00
ATOM	4922	HG22	VAL	X	327	43.920	30.360	42.685	0.00	0.00
ATOM	4923	HG23	VAL	X	327	42.626	31.648	42.413	0.00	0.00
ATOM	4924	C	VAL	X	327	42.240	28.361	43.667	0.00	0.00
ATOM	4925	O	VAL	X	327	42.316	28.555	44.919	0.00	0.00
ATOM	4926	N	LYS	X	328	42.852	27.368	43.012	0.00	0.00
ATOM	4927	H	LYS	X	328	42.727	27.301	42.012	0.00	0.00
ATOM	4928	CA	LYS	X	328	43.878	26.583	43.614	0.00	0.00
ATOM	4929	HA	LYS	X	328	43.353	26.300	44.527	0.00	0.00
ATOM	4930	CB	LYS	X	328	43.888	25.174	42.944	0.00	0.00
ATOM	4931	HB2	LYS	X	328	42.910	24.703	43.037	0.00	0.00
ATOM	4932	HB3	LYS	X	328	44.222	25.242	41.908	0.00	0.00
ATOM	4933	CG	LYS	X	328	44.813	24.262	43.743	0.00	0.00
ATOM	4934	HG2	LYS	X	328	45.859	24.561	43.811	0.00	0.00
ATOM	4935	HG3	LYS	X	328	44.407	24.133	44.746	0.00	0.00
ATOM	4936	CD	LYS	X	328	44.787	22.928	43.000	0.00	0.00
ATOM	4937	HD2	LYS	X	328	45.164	22.172	43.688	0.00	0.00
ATOM	4938	HD3	LYS	X	328	43.778	22.645	42.697	0.00	0.00
ATOM	4939	CE	LYS	X	328	45.655	22.782	41.741	0.00	0.00
ATOM	4940	HE2	LYS	X	328	45.539	21.777	41.334	0.00	0.00
ATOM	4941	HE3	LYS	X	328	45.330	23.553	41.042	0.00	0.00
ATOM	4942	NZ	LYS	X	328	47.096	22.957	42.116	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	47.327	23.939	42.175	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	47.267	22.508	43.005	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	47.701	22.492	41.455	0.00	0.00
ATOM	4946	C	LYS	X	328	45.298	27.227	43.952	0.00	0.00
ATOM	4947	O	LYS	X	328	45.846	26.852	45.044	0.00	0.00
ATOM	4948	N	ASP	X	329	45.763	28.220	43.218	0.00	0.00
ATOM	4949	H	ASP	X	329	45.151	28.542	42.481	0.00	0.00
ATOM	4950	CA	ASP	X	329	47.055	28.798	43.378	0.00	0.00
ATOM	4951	HA	ASP	X	329	47.413	28.401	44.328	0.00	0.00
ATOM	4952	CB	ASP	X	329	48.013	28.275	42.349	0.00	0.00
ATOM	4953	HB2	ASP	X	329	47.703	28.693	41.391	0.00	0.00
ATOM	4954	HB3	ASP	X	329	49.029	28.653	42.459	0.00	0.00
ATOM	4955	CG	ASP	X	329	48.056	26.703	42.295	0.00	0.00
ATOM	4956	OD1	ASP	X	329	49.006	26.140	42.912	0.00	0.00
ATOM	4957	OD2	ASP	X	329	47.183	26.069	41.704	0.00	0.00
ATOM	4958	C	ASP	X	329	46.987	30.325	43.515	0.00	0.00
ATOM	4959	O	ASP	X	329	47.733	30.979	42.761	0.00	0.00
ATOM	4960	N	GLU	X	330	46.157	30.911	44.418	0.00	0.00
ATOM	4961	H	GLU	X	330	45.563	30.330	44.993	0.00	0.00
ATOM	4962	CA	GLU	X	330	45.865	32.347	44.583	0.00	0.00

ATOM	4963	HA	GLU	X	330	45.501	32.671	43.608	0.00	0.00
ATOM	4964	CB	GLU	X	330	44.874	32.436	45.732	0.00	0.00
ATOM	4965	HB2	GLU	X	330	45.229	31.850	46.581	0.00	0.00
ATOM	4966	HB3	GLU	X	330	44.733	33.429	46.157	0.00	0.00
ATOM	4967	CG	GLU	X	330	43.461	31.909	45.488	0.00	0.00
ATOM	4968	HG2	GLU	X	330	43.511	30.920	45.034	0.00	0.00
ATOM	4969	HG3	GLU	X	330	42.924	31.891	46.436	0.00	0.00
ATOM	4970	CD	GLU	X	330	42.672	32.873	44.584	0.00	0.00
ATOM	4971	OE1	GLU	X	330	43.279	33.804	44.017	0.00	0.00
ATOM	4972	OE2	GLU	X	330	41.500	32.636	44.426	0.00	0.00
ATOM	4973	C	GLU	X	330	47.185	33.103	44.992	0.00	0.00
ATOM	4974	O	GLU	X	330	47.236	34.283	44.674	0.00	0.00
ATOM	4975	N	GLY	X	331	48.189	32.463	45.563	0.00	0.00
ATOM	4976	H	GLY	X	331	48.120	31.455	45.567	0.00	0.00
ATOM	4977	CA	GLY	X	331	49.500	33.119	45.750	0.00	0.00
ATOM	4978	HA2	GLY	X	331	49.291	34.186	45.823	0.00	0.00
ATOM	4979	HA3	GLY	X	331	49.828	32.765	46.728	0.00	0.00
ATOM	4980	C	GLY	X	331	50.579	32.839	44.763	0.00	0.00
ATOM	4981	O	GLY	X	331	51.646	33.478	44.881	0.00	0.00
ATOM	4982	N	SER	X	332	50.444	31.824	43.907	0.00	0.00
ATOM	4983	H	SER	X	332	49.598	31.282	44.005	0.00	0.00
ATOM	4984	CA	SER	X	332	51.499	31.457	42.933	0.00	0.00
ATOM	4985	HA	SER	X	332	52.416	31.158	43.440	0.00	0.00
ATOM	4986	CB	SER	X	332	50.994	30.271	42.157	0.00	0.00
ATOM	4987	HB2	SER	X	332	50.836	29.492	42.903	0.00	0.00
ATOM	4988	HB3	SER	X	332	50.030	30.604	41.773	0.00	0.00
ATOM	4989	OG	SER	X	332	51.793	29.743	41.068	0.00	0.00
ATOM	4990	HG	SER	X	332	51.269	29.012	40.735	0.00	0.00
ATOM	4991	C	SER	X	332	51.843	32.633	41.922	0.00	0.00
ATOM	4992	O	SER	X	332	53.017	33.010	41.705	0.00	0.00
ATOM	4993	N	TYR	X	333	50.822	33.312	41.380	0.00	0.00
ATOM	4994	H	TYR	X	333	49.916	32.912	41.576	0.00	0.00
ATOM	4995	CA	TYR	X	333	51.033	34.543	40.483	0.00	0.00
ATOM	4996	HA	TYR	X	333	51.344	34.173	39.506	0.00	0.00
ATOM	4997	CB	TYR	X	333	49.608	35.109	40.253	0.00	0.00
ATOM	4998	HB2	TYR	X	333	48.984	34.250	40.004	0.00	0.00
ATOM	4999	HB3	TYR	X	333	49.357	35.529	41.228	0.00	0.00
ATOM	5000	CG	TYR	X	333	49.417	36.194	39.166	0.00	0.00
ATOM	5001	CD1	TYR	X	333	49.338	35.923	37.719	0.00	0.00
ATOM	5002	HD1	TYR	X	333	49.753	34.987	37.376	0.00	0.00
ATOM	5003	CE1	TYR	X	333	48.964	36.895	36.837	0.00	0.00
ATOM	5004	HE1	TYR	X	333	48.980	36.666	35.782	0.00	0.00
ATOM	5005	CZ	TYR	X	333	48.533	38.142	37.318	0.00	0.00
ATOM	5006	OH	TYR	X	333	48.035	39.063	36.447	0.00	0.00
ATOM	5007	HH	TYR	X	333	48.173	38.794	35.536	0.00	0.00
ATOM	5008	CE2	TYR	X	333	48.497	38.405	38.736	0.00	0.00
ATOM	5009	HE2	TYR	X	333	48.090	39.271	39.235	0.00	0.00
ATOM	5010	CD2	TYR	X	333	48.971	37.441	39.623	0.00	0.00
ATOM	5011	HD2	TYR	X	333	48.985	37.717	40.667	0.00	0.00
ATOM	5012	C	TYR	X	333	52.022	35.616	40.956	0.00	0.00
ATOM	5013	O	TYR	X	333	52.858	36.089	40.260	0.00	0.00
ATOM	5014	N	PHE	X	334	51.905	35.948	42.253	0.00	0.00
ATOM	5015	H	PHE	X	334	51.222	35.543	42.877	0.00	0.00
ATOM	5016	CA	PHE	X	334	52.669	37.121	42.836	0.00	0.00
ATOM	5017	HA	PHE	X	334	52.711	37.904	42.079	0.00	0.00
ATOM	5018	CB	PHE	X	334	51.830	37.631	43.969	0.00	0.00
ATOM	5019	HB2	PHE	X	334	52.013	36.925	44.779	0.00	0.00
ATOM	5020	HB3	PHE	X	334	52.278	38.538	44.377	0.00	0.00
ATOM	5021	CG	PHE	X	334	50.447	38.063	43.700	0.00	0.00
ATOM	5022	CD1	PHE	X	334	49.416	37.209	43.912	0.00	0.00
ATOM	5023	HD1	PHE	X	334	49.526	36.277	44.446	0.00	0.00
ATOM	5024	CE1	PHE	X	334	48.097	37.595	43.545	0.00	0.00
ATOM	5025	HE1	PHE	X	334	47.267	36.984	43.867	0.00	0.00
ATOM	5026	CZ	PHE	X	334	47.888	38.855	42.878	0.00	0.00
ATOM	5027	HZ	PHE	X	334	46.870	39.124	42.637	0.00	0.00
ATOM	5028	CE2	PHE	X	334	48.980	39.693	42.656	0.00	0.00
ATOM	5029	HE2	PHE	X	334	48.758	40.543	42.027	0.00	0.00

ATOM	5030	CD2	PHE	X	334	50.265	39.269	42.969	0.00	0.00
ATOM	5031	HD2	PHE	X	334	51.117	39.863	42.672	0.00	0.00
ATOM	5032	C	PHE	X	334	54.105	36.832	43.235	0.00	0.00
ATOM	5033	O	PHE	X	334	54.909	37.720	43.224	0.00	0.00
ATOM	5034	N	LEU	X	335	54.376	35.588	43.427	0.00	0.00
ATOM	5035	H	LEU	X	335	53.572	34.992	43.288	0.00	0.00
ATOM	5036	CA	LEU	X	335	55.768	35.117	43.540	0.00	0.00
ATOM	5037	HA	LEU	X	335	56.206	35.748	44.314	0.00	0.00
ATOM	5038	CB	LEU	X	335	55.863	33.664	43.926	0.00	0.00
ATOM	5039	HB2	LEU	X	335	55.394	33.093	43.124	0.00	0.00
ATOM	5040	HB3	LEU	X	335	56.929	33.439	43.936	0.00	0.00
ATOM	5041	CG	LEU	X	335	55.350	33.435	45.376	0.00	0.00
ATOM	5042	HG	LEU	X	335	54.295	33.691	45.472	0.00	0.00
ATOM	5043	CD1	LEU	X	335	55.437	31.953	45.664	0.00	0.00
ATOM	5044	HD11	LEU	X	335	55.025	31.821	46.664	0.00	0.00
ATOM	5045	HD12	LEU	X	335	56.449	31.550	45.701	0.00	0.00
ATOM	5046	HD13	LEU	X	335	54.776	31.530	44.908	0.00	0.00
ATOM	5047	CD2	LEU	X	335	56.329	34.085	46.355	0.00	0.00
ATOM	5048	HD21	LEU	X	335	57.344	33.744	46.149	0.00	0.00
ATOM	5049	HD22	LEU	X	335	56.272	35.173	46.382	0.00	0.00
ATOM	5050	HD23	LEU	X	335	55.956	33.726	47.314	0.00	0.00
ATOM	5051	C	LEU	X	335	56.608	35.385	42.303	0.00	0.00
ATOM	5052	O	LEU	X	335	57.627	36.068	42.475	0.00	0.00
ATOM	5053	N	VAL	X	336	56.271	34.886	41.103	0.00	0.00
ATOM	5054	H	VAL	X	336	55.441	34.310	41.104	0.00	0.00
ATOM	5055	CA	VAL	X	336	56.987	35.215	39.855	0.00	0.00
ATOM	5056	HA	VAL	X	336	57.974	34.812	40.085	0.00	0.00
ATOM	5057	CB	VAL	X	336	56.529	34.425	38.600	0.00	0.00
ATOM	5058	HB	VAL	X	336	57.204	34.796	37.829	0.00	0.00
ATOM	5059	CG1	VAL	X	336	56.770	32.934	38.784	0.00	0.00
ATOM	5060	HG11	VAL	X	336	56.359	32.455	37.895	0.00	0.00
ATOM	5061	HG12	VAL	X	336	57.798	32.621	38.970	0.00	0.00
ATOM	5062	HG13	VAL	X	336	56.259	32.496	39.641	0.00	0.00
ATOM	5063	CG2	VAL	X	336	55.015	34.697	38.147	0.00	0.00
ATOM	5064	HG21	VAL	X	336	54.775	35.759	38.098	0.00	0.00
ATOM	5065	HG22	VAL	X	336	54.341	34.249	38.877	0.00	0.00
ATOM	5066	HG23	VAL	X	336	54.749	34.255	37.187	0.00	0.00
ATOM	5067	C	VAL	X	336	56.927	36.736	39.513	0.00	0.00
ATOM	5068	O	VAL	X	336	57.865	37.147	38.791	0.00	0.00
ATOM	5069	N	TYR	X	337	55.949	37.543	40.053	0.00	0.00
ATOM	5070	H	TYR	X	337	55.129	37.136	40.479	0.00	0.00
ATOM	5071	CA	TYR	X	337	55.978	38.951	39.828	0.00	0.00
ATOM	5072	HA	TYR	X	337	56.454	39.021	38.850	0.00	0.00
ATOM	5073	CB	TYR	X	337	54.505	39.363	39.673	0.00	0.00
ATOM	5074	HB2	TYR	X	337	53.840	38.781	40.311	0.00	0.00
ATOM	5075	HB3	TYR	X	337	54.410	40.419	39.925	0.00	0.00
ATOM	5076	CG	TYR	X	337	53.952	39.241	38.217	0.00	0.00
ATOM	5077	CD1	TYR	X	337	54.519	40.029	37.229	0.00	0.00
ATOM	5078	HD1	TYR	X	337	55.415	40.615	37.375	0.00	0.00
ATOM	5079	CE1	TYR	X	337	53.917	40.032	35.959	0.00	0.00
ATOM	5080	HE1	TYR	X	337	54.398	40.497	35.112	0.00	0.00
ATOM	5081	CZ	TYR	X	337	52.794	39.310	35.634	0.00	0.00
ATOM	5082	OH	TYR	X	337	52.350	39.400	34.375	0.00	0.00
ATOM	5083	HH	TYR	X	337	52.840	40.080	33.908	0.00	0.00
ATOM	5084	CE2	TYR	X	337	52.264	38.473	36.639	0.00	0.00
ATOM	5085	HE2	TYR	X	337	51.393	37.900	36.355	0.00	0.00
ATOM	5086	CD2	TYR	X	337	52.766	38.512	37.978	0.00	0.00
ATOM	5087	HD2	TYR	X	337	52.173	38.133	38.798	0.00	0.00
ATOM	5088	C	TYR	X	337	56.686	39.755	40.855	0.00	0.00
ATOM	5089	O	TYR	X	337	56.766	40.946	40.744	0.00	0.00
ATOM	5090	N	GLY	X	338	57.151	39.157	41.958	0.00	0.00
ATOM	5091	H	GLY	X	338	57.057	38.162	42.106	0.00	0.00
ATOM	5092	CA	GLY	X	338	57.626	39.934	43.048	0.00	0.00
ATOM	5093	HA2	GLY	X	338	58.142	40.772	42.579	0.00	0.00
ATOM	5094	HA3	GLY	X	338	56.764	40.312	43.598	0.00	0.00
ATOM	5095	C	GLY	X	338	58.567	39.333	44.110	0.00	0.00
ATOM	5096	O	GLY	X	338	59.172	40.103	44.784	0.00	0.00

ATOM	5097	N	ALA	X	339	58.829	38.050	44.217	0.00	0.00
ATOM	5098	H	ALA	X	339	58.369	37.432	43.564	0.00	0.00
ATOM	5099	CA	ALA	X	339	59.796	37.445	45.167	0.00	0.00
ATOM	5100	HA	ALA	X	339	59.991	38.077	46.033	0.00	0.00
ATOM	5101	CB	ALA	X	339	59.045	36.322	45.832	0.00	0.00
ATOM	5102	HB1	ALA	X	339	58.994	35.490	45.130	0.00	0.00
ATOM	5103	HB2	ALA	X	339	57.996	36.589	45.958	0.00	0.00
ATOM	5104	HB3	ALA	X	339	59.566	35.983	46.727	0.00	0.00
ATOM	5105	C	ALA	X	339	61.214	37.044	44.568	0.00	0.00
ATOM	5106	O	ALA	X	339	61.275	36.681	43.404	0.00	0.00
ATOM	5107	N	PRO	X	340	62.293	36.900	45.418	0.00	0.00
ATOM	5108	CD	PRO	X	340	62.350	37.376	46.861	0.00	0.00
ATOM	5109	HD2	PRO	X	340	61.870	36.648	47.515	0.00	0.00
ATOM	5110	HD3	PRO	X	340	61.793	38.293	47.054	0.00	0.00
ATOM	5111	CG	PRO	X	340	63.784	37.500	47.219	0.00	0.00
ATOM	5112	HG2	PRO	X	340	64.027	37.247	48.250	0.00	0.00
ATOM	5113	HG3	PRO	X	340	64.124	38.496	46.935	0.00	0.00
ATOM	5114	CB	PRO	X	340	64.461	36.454	46.304	0.00	0.00
ATOM	5115	HB2	PRO	X	340	64.278	35.471	46.737	0.00	0.00
ATOM	5116	HB3	PRO	X	340	65.525	36.649	46.168	0.00	0.00
ATOM	5117	CA	PRO	X	340	63.641	36.473	45.001	0.00	0.00
ATOM	5118	HA	PRO	X	340	64.109	37.223	44.363	0.00	0.00
ATOM	5119	C	PRO	X	340	63.638	35.057	44.382	0.00	0.00
ATOM	5120	O	PRO	X	340	63.085	34.098	44.912	0.00	0.00
ATOM	5121	N	GLY	X	341	64.323	34.911	43.241	0.00	0.00
ATOM	5122	H	GLY	X	341	64.848	35.721	42.944	0.00	0.00
ATOM	5123	CA	GLY	X	341	64.570	33.617	42.551	0.00	0.00
ATOM	5124	HA2	GLY	X	341	65.464	33.754	41.943	0.00	0.00
ATOM	5125	HA3	GLY	X	341	64.801	32.835	43.275	0.00	0.00
ATOM	5126	C	GLY	X	341	63.434	33.089	41.661	0.00	0.00
ATOM	5127	O	GLY	X	341	63.641	32.419	40.561	0.00	0.00
ATOM	5128	N	PHE	X	342	62.185	33.457	41.996	0.00	0.00
ATOM	5129	H	PHE	X	342	62.094	33.998	42.844	0.00	0.00
ATOM	5130	CA	PHE	X	342	61.053	32.942	41.159	0.00	0.00
ATOM	5131	HA	PHE	X	342	61.162	31.872	40.977	0.00	0.00
ATOM	5132	CB	PHE	X	342	59.756	33.303	41.805	0.00	0.00
ATOM	5133	HB2	PHE	X	342	59.739	34.365	42.048	0.00	0.00
ATOM	5134	HB3	PHE	X	342	58.905	33.094	41.156	0.00	0.00
ATOM	5135	CG	PHE	X	342	59.489	32.564	43.063	0.00	0.00
ATOM	5136	CD1	PHE	X	342	58.688	31.393	43.085	0.00	0.00
ATOM	5137	HD1	PHE	X	342	58.145	31.155	42.182	0.00	0.00
ATOM	5138	CE1	PHE	X	342	58.579	30.600	44.228	0.00	0.00
ATOM	5139	HE1	PHE	X	342	57.950	29.724	44.179	0.00	0.00
ATOM	5140	CZ	PHE	X	342	59.210	31.038	45.404	0.00	0.00
ATOM	5141	HZ	PHE	X	342	59.125	30.496	46.335	0.00	0.00
ATOM	5142	CE2	PHE	X	342	59.892	32.223	45.450	0.00	0.00
ATOM	5143	HE2	PHE	X	342	60.403	32.604	46.321	0.00	0.00
ATOM	5144	CD2	PHE	X	342	60.005	32.983	44.285	0.00	0.00
ATOM	5145	HD2	PHE	X	342	60.615	33.865	44.418	0.00	0.00
ATOM	5146	C	PHE	X	342	61.066	33.719	39.832	0.00	0.00
ATOM	5147	O	PHE	X	342	61.421	34.905	39.794	0.00	0.00
ATOM	5148	N	SER	X	343	60.444	33.034	38.810	0.00	0.00
ATOM	5149	H	SER	X	343	60.134	32.122	39.112	0.00	0.00
ATOM	5150	CA	SER	X	343	60.402	33.403	37.381	0.00	0.00
ATOM	5151	HA	SER	X	343	59.695	34.227	37.288	0.00	0.00
ATOM	5152	CB	SER	X	343	61.732	33.701	36.733	0.00	0.00
ATOM	5153	HB2	SER	X	343	62.385	34.107	37.505	0.00	0.00
ATOM	5154	HB3	SER	X	343	62.236	32.833	36.310	0.00	0.00
ATOM	5155	OG	SER	X	343	61.610	34.660	35.729	0.00	0.00
ATOM	5156	HG	SER	X	343	62.444	35.133	35.778	0.00	0.00
ATOM	5157	C	SER	X	343	59.676	32.321	36.615	0.00	0.00
ATOM	5158	O	SER	X	343	59.866	31.130	36.806	0.00	0.00
ATOM	5159	N	LYS	X	344	58.748	32.689	35.711	0.00	0.00
ATOM	5160	H	LYS	X	344	58.803	33.667	35.463	0.00	0.00
ATOM	5161	CA	LYS	X	344	57.838	31.869	34.982	0.00	0.00
ATOM	5162	HA	LYS	X	344	57.448	31.291	35.820	0.00	0.00
ATOM	5163	CB	LYS	X	344	56.749	32.735	34.363	0.00	0.00

ATOM	5164	HB2	LYS	X	344	56.018	32.106	33.855	0.00	0.00
ATOM	5165	HB3	LYS	X	344	56.340	33.377	35.143	0.00	0.00
ATOM	5166	CG	LYS	X	344	57.329	33.560	33.211	0.00	0.00
ATOM	5167	HG2	LYS	X	344	58.039	34.248	33.670	0.00	0.00
ATOM	5168	HG3	LYS	X	344	57.843	32.879	32.532	0.00	0.00
ATOM	5169	CD	LYS	X	344	56.306	34.331	32.435	0.00	0.00
ATOM	5170	HD2	LYS	X	344	55.542	33.600	32.172	0.00	0.00
ATOM	5171	HD3	LYS	X	344	55.935	35.119	33.090	0.00	0.00
ATOM	5172	CE	LYS	X	344	56.737	34.982	31.106	0.00	0.00
ATOM	5173	HE2	LYS	X	344	55.928	35.485	30.576	0.00	0.00
ATOM	5174	HE3	LYS	X	344	57.449	35.753	31.401	0.00	0.00
ATOM	5175	NZ	LYS	X	344	57.488	34.094	30.119	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	58.154	33.504	30.596	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	56.898	33.417	29.657	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	58.012	34.625	29.437	0.00	0.00
ATOM	5179	C	LYS	X	344	58.471	30.888	33.956	0.00	0.00
ATOM	5180	O	LYS	X	344	57.841	29.920	33.476	0.00	0.00
ATOM	5181	N	ASP	X	345	59.781	31.168	33.688	0.00	0.00
ATOM	5182	H	ASP	X	345	60.161	31.974	34.162	0.00	0.00
ATOM	5183	CA	ASP	X	345	60.774	30.453	32.818	0.00	0.00
ATOM	5184	HA	ASP	X	345	60.174	29.685	32.330	0.00	0.00
ATOM	5185	CB	ASP	X	345	61.268	31.457	31.704	0.00	0.00
ATOM	5186	HB2	ASP	X	345	61.722	32.342	32.151	0.00	0.00
ATOM	5187	HB3	ASP	X	345	62.011	31.049	31.019	0.00	0.00
ATOM	5188	CG	ASP	X	345	60.073	31.988	30.839	0.00	0.00
ATOM	5189	OD1	ASP	X	345	59.215	31.193	30.383	0.00	0.00
ATOM	5190	OD2	ASP	X	345	59.899	33.208	30.752	0.00	0.00
ATOM	5191	C	ASP	X	345	61.885	29.704	33.529	0.00	0.00
ATOM	5192	O	ASP	X	345	62.921	29.401	32.928	0.00	0.00
ATOM	5193	N	ASN	X	346	61.655	29.465	34.850	0.00	0.00
ATOM	5194	H	ASN	X	346	60.729	29.615	35.224	0.00	0.00
ATOM	5195	CA	ASN	X	346	62.508	28.782	35.782	0.00	0.00
ATOM	5196	HA	ASN	X	346	63.172	28.122	35.225	0.00	0.00
ATOM	5197	CB	ASN	X	346	63.323	29.795	36.588	0.00	0.00
ATOM	5198	HB2	ASN	X	346	63.755	30.526	35.904	0.00	0.00
ATOM	5199	HB3	ASN	X	346	62.693	30.303	37.318	0.00	0.00
ATOM	5200	CG	ASN	X	346	64.415	29.000	37.288	0.00	0.00
ATOM	5201	OD1	ASN	X	346	64.236	28.523	38.381	0.00	0.00
ATOM	5202	ND2	ASN	X	346	65.585	28.793	36.726	0.00	0.00
ATOM	5203	HD21	ASN	X	346	66.293	28.377	37.313	0.00	0.00
ATOM	5204	HD22	ASN	X	346	65.736	29.235	35.830	0.00	0.00
ATOM	5205	C	ASN	X	346	61.655	27.986	36.714	0.00	0.00
ATOM	5206	O	ASN	X	346	60.688	28.488	37.263	0.00	0.00
ATOM	5207	N	GLU	X	347	62.015	26.787	37.037	0.00	0.00
ATOM	5208	H	GLU	X	347	62.845	26.452	36.570	0.00	0.00
ATOM	5209	CA	GLU	X	347	61.319	25.821	38.011	0.00	0.00
ATOM	5210	HA	GLU	X	347	60.259	25.924	37.778	0.00	0.00
ATOM	5211	CB	GLU	X	347	61.803	24.362	37.914	0.00	0.00
ATOM	5212	HB2	GLU	X	347	62.879	24.394	38.086	0.00	0.00
ATOM	5213	HB3	GLU	X	347	61.343	23.652	38.600	0.00	0.00
ATOM	5214	CG	GLU	X	347	61.528	23.787	36.538	0.00	0.00
ATOM	5215	HG2	GLU	X	347	60.447	23.743	36.411	0.00	0.00
ATOM	5216	HG3	GLU	X	347	61.952	24.357	35.712	0.00	0.00
ATOM	5217	CD	GLU	X	347	62.239	22.427	36.462	0.00	0.00
ATOM	5218	OE1	GLU	X	347	63.409	22.254	36.049	0.00	0.00
ATOM	5219	OE2	GLU	X	347	61.557	21.448	36.808	0.00	0.00
ATOM	5220	C	GLU	X	347	61.324	26.237	39.532	0.00	0.00
ATOM	5221	O	GLU	X	347	60.581	25.625	40.310	0.00	0.00
ATOM	5222	N	SER	X	348	62.059	27.296	39.842	0.00	0.00
ATOM	5223	H	SER	X	348	62.562	27.681	39.055	0.00	0.00
ATOM	5224	CA	SER	X	348	61.776	28.131	41.051	0.00	0.00
ATOM	5225	HA	SER	X	348	62.569	28.878	41.014	0.00	0.00
ATOM	5226	CB	SER	X	348	60.521	28.988	40.886	0.00	0.00
ATOM	5227	HB2	SER	X	348	59.669	28.310	40.936	0.00	0.00
ATOM	5228	HB3	SER	X	348	60.467	29.610	41.780	0.00	0.00
ATOM	5229	OG	SER	X	348	60.410	29.707	39.735	0.00	0.00
ATOM	5230	HG	SER	X	348	60.286	29.101	39.001	0.00	0.00

ATOM	5231	C	SER	X	348	61.861	27.522	42.486	0.00	0.00
ATOM	5232	O	SER	X	348	61.265	28.049	43.465	0.00	0.00
ATOM	5233	N	LEU	X	349	62.601	26.394	42.581	0.00	0.00
ATOM	5234	H	LEU	X	349	63.007	26.033	41.730	0.00	0.00
ATOM	5235	CA	LEU	X	349	62.734	25.538	43.746	0.00	0.00
ATOM	5236	HA	LEU	X	349	61.736	25.495	44.183	0.00	0.00
ATOM	5237	CB	LEU	X	349	63.275	24.227	43.241	0.00	0.00
ATOM	5238	HB2	LEU	X	349	64.082	24.478	42.553	0.00	0.00
ATOM	5239	HB3	LEU	X	349	63.590	23.521	44.009	0.00	0.00
ATOM	5240	CG	LEU	X	349	62.235	23.425	42.333	0.00	0.00
ATOM	5241	HG	LEU	X	349	62.180	23.968	41.390	0.00	0.00
ATOM	5242	CD1	LEU	X	349	62.847	22.049	41.987	0.00	0.00
ATOM	5243	HD11	LEU	X	349	62.975	21.408	42.860	0.00	0.00
ATOM	5244	HD12	LEU	X	349	63.831	22.166	41.532	0.00	0.00
ATOM	5245	HD13	LEU	X	349	62.324	21.589	41.149	0.00	0.00
ATOM	5246	CD2	LEU	X	349	60.971	23.123	43.115	0.00	0.00
ATOM	5247	HD21	LEU	X	349	60.279	22.513	42.534	0.00	0.00
ATOM	5248	HD22	LEU	X	349	61.061	22.716	44.122	0.00	0.00
ATOM	5249	HD23	LEU	X	349	60.501	24.101	43.219	0.00	0.00
ATOM	5250	C	LEU	X	349	63.675	26.160	44.810	0.00	0.00
ATOM	5251	O	LEU	X	349	64.564	26.937	44.483	0.00	0.00
ATOM	5252	N	ILE	X	350	63.505	25.878	46.086	0.00	0.00
ATOM	5253	H	ILE	X	350	62.808	25.215	46.394	0.00	0.00
ATOM	5254	CA	ILE	X	350	64.138	26.654	47.192	0.00	0.00
ATOM	5255	HA	ILE	X	350	64.923	27.286	46.778	0.00	0.00
ATOM	5256	CB	ILE	X	350	63.033	27.599	47.747	0.00	0.00
ATOM	5257	HB	ILE	X	350	63.592	28.027	48.579	0.00	0.00
ATOM	5258	CG2	ILE	X	350	62.726	28.796	46.796	0.00	0.00
ATOM	5259	HG21	ILE	X	350	62.022	28.396	46.066	0.00	0.00
ATOM	5260	HG22	ILE	X	350	63.596	29.160	46.250	0.00	0.00
ATOM	5261	HG23	ILE	X	350	62.362	29.569	47.473	0.00	0.00
ATOM	5262	CG1	ILE	X	350	61.799	26.979	48.188	0.00	0.00
ATOM	5263	HG12	ILE	X	350	61.242	26.572	47.345	0.00	0.00
ATOM	5264	HG13	ILE	X	350	62.115	26.157	48.830	0.00	0.00
ATOM	5265	CD1	ILE	X	350	60.889	27.966	48.880	0.00	0.00
ATOM	5266	HD11	ILE	X	350	61.404	28.418	49.727	0.00	0.00
ATOM	5267	HD12	ILE	X	350	60.041	27.430	49.304	0.00	0.00
ATOM	5268	HD13	ILE	X	350	60.499	28.749	48.230	0.00	0.00
ATOM	5269	C	ILE	X	350	64.660	25.778	48.331	0.00	0.00
ATOM	5270	O	ILE	X	350	64.202	24.646	48.510	0.00	0.00
ATOM	5271	N	SER	X	351	65.577	26.328	49.158	0.00	0.00
ATOM	5272	H	SER	X	351	66.025	27.188	48.878	0.00	0.00
ATOM	5273	CA	SER	X	351	65.909	25.799	50.485	0.00	0.00
ATOM	5274	HA	SER	X	351	65.820	24.713	50.466	0.00	0.00
ATOM	5275	CB	SER	X	351	67.419	26.058	50.843	0.00	0.00
ATOM	5276	HB2	SER	X	351	67.604	25.615	51.821	0.00	0.00
ATOM	5277	HB3	SER	X	351	68.133	25.470	50.266	0.00	0.00
ATOM	5278	OG	SER	X	351	67.662	27.480	50.888	0.00	0.00
ATOM	5279	HG	SER	X	351	67.662	27.843	49.999	0.00	0.00
ATOM	5280	C	SER	X	351	64.981	26.387	51.546	0.00	0.00
ATOM	5281	O	SER	X	351	64.426	27.499	51.276	0.00	0.00
ATOM	5282	N	ARG	X	352	64.846	25.781	52.748	0.00	0.00
ATOM	5283	H	ARG	X	352	65.190	24.832	52.781	0.00	0.00
ATOM	5284	CA	ARG	X	352	64.082	26.297	53.942	0.00	0.00
ATOM	5285	HA	ARG	X	352	62.996	26.344	53.860	0.00	0.00
ATOM	5286	CB	ARG	X	352	64.223	25.264	55.044	0.00	0.00
ATOM	5287	HB2	ARG	X	352	63.779	24.350	54.649	0.00	0.00
ATOM	5288	HB3	ARG	X	352	65.291	25.159	55.232	0.00	0.00
ATOM	5289	CG	ARG	X	352	63.380	25.583	56.262	0.00	0.00
ATOM	5290	HG2	ARG	X	352	63.668	26.540	56.697	0.00	0.00
ATOM	5291	HG3	ARG	X	352	62.346	25.625	55.923	0.00	0.00
ATOM	5292	CD	ARG	X	352	63.386	24.411	57.280	0.00	0.00
ATOM	5293	HD2	ARG	X	352	62.956	23.520	56.823	0.00	0.00
ATOM	5294	HD3	ARG	X	352	64.412	24.148	57.536	0.00	0.00
ATOM	5295	NE	ARG	X	352	62.517	24.583	58.483	0.00	0.00
ATOM	5296	HE	ARG	X	352	62.936	24.952	59.324	0.00	0.00
ATOM	5297	CZ	ARG	X	352	61.280	24.308	58.599	0.00	0.00

ATOM	5298	NH1	ARG	X	352	60.566	23.769	57.670	0.00	0.00
ATOM	5299	HH11	ARG	X	352	60.860	23.537	56.731	0.00	0.00
ATOM	5300	HH12	ARG	X	352	59.636	23.421	57.854	0.00	0.00
ATOM	5301	NH2	ARG	X	352	60.620	24.557	59.751	0.00	0.00
ATOM	5302	HH21	ARG	X	352	61.113	25.134	60.417	0.00	0.00
ATOM	5303	HH22	ARG	X	352	59.639	24.319	59.787	0.00	0.00
ATOM	5304	C	ARG	X	352	64.508	27.726	54.412	0.00	0.00
ATOM	5305	O	ARG	X	352	63.712	28.552	54.911	0.00	0.00
ATOM	5306	N	ALA	X	353	65.856	27.981	54.122	0.00	0.00
ATOM	5307	H	ALA	X	353	66.318	27.227	53.635	0.00	0.00
ATOM	5308	CA	ALA	X	353	66.537	29.304	54.196	0.00	0.00
ATOM	5309	HA	ALA	X	353	66.187	29.737	55.133	0.00	0.00
ATOM	5310	CB	ALA	X	353	68.101	29.285	54.222	0.00	0.00
ATOM	5311	HB1	ALA	X	353	68.253	28.494	54.957	0.00	0.00
ATOM	5312	HB2	ALA	X	353	68.509	30.248	54.529	0.00	0.00
ATOM	5313	HB3	ALA	X	353	68.612	28.959	53.316	0.00	0.00
ATOM	5314	C	ALA	X	353	66.049	30.408	53.215	0.00	0.00
ATOM	5315	O	ALA	X	353	65.962	31.607	53.554	0.00	0.00
ATOM	5316	N	GLU	X	354	65.526	29.968	52.079	0.00	0.00
ATOM	5317	H	GLU	X	354	65.514	28.960	52.016	0.00	0.00
ATOM	5318	CA	GLU	X	354	64.896	30.813	51.033	0.00	0.00
ATOM	5319	HA	GLU	X	354	65.281	31.825	51.159	0.00	0.00
ATOM	5320	CB	GLU	X	354	65.206	30.292	49.701	0.00	0.00
ATOM	5321	HB2	GLU	X	354	64.945	29.237	49.792	0.00	0.00
ATOM	5322	HB3	GLU	X	354	64.557	30.673	48.913	0.00	0.00
ATOM	5323	CG	GLU	X	354	66.651	30.516	49.265	0.00	0.00
ATOM	5324	HG2	GLU	X	354	66.642	31.562	48.959	0.00	0.00
ATOM	5325	HG3	GLU	X	354	67.287	30.362	50.137	0.00	0.00
ATOM	5326	CD	GLU	X	354	67.077	29.542	48.125	0.00	0.00
ATOM	5327	OE1	GLU	X	354	67.112	30.010	46.956	0.00	0.00
ATOM	5328	OE2	GLU	X	354	67.183	28.349	48.340	0.00	0.00
ATOM	5329	C	GLU	X	354	63.355	30.930	51.243	0.00	0.00
ATOM	5330	O	GLU	X	354	62.805	31.909	50.908	0.00	0.00
ATOM	5331	N	PHE	X	355	62.764	29.963	52.002	0.00	0.00
ATOM	5332	H	PHE	X	355	63.197	29.063	52.154	0.00	0.00
ATOM	5333	CA	PHE	X	355	61.393	30.053	52.532	0.00	0.00
ATOM	5334	HA	PHE	X	355	60.734	30.264	51.689	0.00	0.00
ATOM	5335	CB	PHE	X	355	61.016	28.631	52.904	0.00	0.00
ATOM	5336	HB2	PHE	X	355	61.068	28.025	52.000	0.00	0.00
ATOM	5337	HB3	PHE	X	355	61.663	28.128	53.623	0.00	0.00
ATOM	5338	CG	PHE	X	355	59.560	28.573	53.243	0.00	0.00
ATOM	5339	CD1	PHE	X	355	58.490	29.103	52.409	0.00	0.00
ATOM	5340	HD1	PHE	X	355	58.693	29.716	51.543	0.00	0.00
ATOM	5341	CE1	PHE	X	355	57.168	28.852	52.784	0.00	0.00
ATOM	5342	HE1	PHE	X	355	56.302	29.264	52.286	0.00	0.00
ATOM	5343	CZ	PHE	X	355	56.915	28.112	53.886	0.00	0.00
ATOM	5344	HZ	PHE	X	355	55.901	27.787	54.067	0.00	0.00
ATOM	5345	CE2	PHE	X	355	57.919	27.677	54.744	0.00	0.00
ATOM	5346	HE2	PHE	X	355	57.626	27.140	55.633	0.00	0.00
ATOM	5347	CD2	PHE	X	355	59.281	27.940	54.448	0.00	0.00
ATOM	5348	HD2	PHE	X	355	60.034	27.598	55.142	0.00	0.00
ATOM	5349	C	PHE	X	355	61.260	31.050	53.579	0.00	0.00
ATOM	5350	O	PHE	X	355	60.476	31.950	53.435	0.00	0.00
ATOM	5351	N	LEU	X	356	62.150	31.009	54.610	0.00	0.00
ATOM	5352	H	LEU	X	356	62.815	30.250	54.666	0.00	0.00
ATOM	5353	CA	LEU	X	356	62.243	32.129	55.565	0.00	0.00
ATOM	5354	HA	LEU	X	356	61.423	32.163	56.283	0.00	0.00
ATOM	5355	CB	LEU	X	356	63.492	31.955	56.427	0.00	0.00
ATOM	5356	HB2	LEU	X	356	63.543	30.971	56.893	0.00	0.00
ATOM	5357	HB3	LEU	X	356	64.314	31.981	55.711	0.00	0.00
ATOM	5358	CG	LEU	X	356	63.695	33.025	57.493	0.00	0.00
ATOM	5359	HG	LEU	X	356	63.692	34.044	57.104	0.00	0.00
ATOM	5360	CD1	LEU	X	356	62.596	32.944	58.571	0.00	0.00
ATOM	5361	HD11	LEU	X	356	62.622	32.007	59.128	0.00	0.00
ATOM	5362	HD12	LEU	X	356	61.616	32.982	58.095	0.00	0.00
ATOM	5363	HD13	LEU	X	356	62.803	33.766	59.256	0.00	0.00
ATOM	5364	CD2	LEU	X	356	65.007	32.773	58.165	0.00	0.00

ATOM	5365	HD21	LEU	X	356	65.796	32.788	57.413	0.00	0.00
ATOM	5366	HD22	LEU	X	356	65.158	33.428	59.024	0.00	0.00
ATOM	5367	HD23	LEU	X	356	65.064	31.749	58.534	0.00	0.00
ATOM	5368	C	LEU	X	356	62.207	33.470	54.801	0.00	0.00
ATOM	5369	O	LEU	X	356	61.404	34.359	55.108	0.00	0.00
ATOM	5370	N	ALA	X	357	63.168	33.663	53.844	0.00	0.00
ATOM	5371	H	ALA	X	357	63.724	32.854	53.606	0.00	0.00
ATOM	5372	CA	ALA	X	357	63.340	34.966	53.104	0.00	0.00
ATOM	5373	HA	ALA	X	357	63.594	35.790	53.770	0.00	0.00
ATOM	5374	CB	ALA	X	357	64.498	34.762	52.111	0.00	0.00
ATOM	5375	HB1	ALA	X	357	64.360	33.981	51.363	0.00	0.00
ATOM	5376	HB2	ALA	X	357	65.426	34.616	52.664	0.00	0.00
ATOM	5377	HB3	ALA	X	357	64.624	35.724	51.616	0.00	0.00
ATOM	5378	C	ALA	X	357	61.974	35.300	52.305	0.00	0.00
ATOM	5379	O	ALA	X	357	61.386	36.417	52.402	0.00	0.00
ATOM	5380	N	GLY	X	358	61.479	34.269	51.522	0.00	0.00
ATOM	5381	H	GLY	X	358	62.072	33.482	51.298	0.00	0.00
ATOM	5382	CA	GLY	X	358	60.216	34.290	50.733	0.00	0.00
ATOM	5383	HA2	GLY	X	358	60.299	35.007	49.916	0.00	0.00
ATOM	5384	HA3	GLY	X	358	60.029	33.302	50.312	0.00	0.00
ATOM	5385	C	GLY	X	358	59.015	34.626	51.603	0.00	0.00
ATOM	5386	O	GLY	X	358	58.187	35.462	51.183	0.00	0.00
ATOM	5387	N	VAL	X	359	58.987	34.108	52.850	0.00	0.00
ATOM	5388	H	VAL	X	359	59.688	33.428	53.107	0.00	0.00
ATOM	5389	CA	VAL	X	359	58.031	34.639	53.872	0.00	0.00
ATOM	5390	HA	VAL	X	359	57.032	34.580	53.440	0.00	0.00
ATOM	5391	CB	VAL	X	359	57.991	33.731	55.122	0.00	0.00
ATOM	5392	HB	VAL	X	359	59.036	33.659	55.424	0.00	0.00
ATOM	5393	CG1	VAL	X	359	57.109	34.316	56.202	0.00	0.00
ATOM	5394	HG11	VAL	X	359	57.298	35.359	56.454	0.00	0.00
ATOM	5395	HG12	VAL	X	359	56.084	34.253	55.838	0.00	0.00
ATOM	5396	HG13	VAL	X	359	57.171	33.800	57.160	0.00	0.00
ATOM	5397	CG2	VAL	X	359	57.541	32.306	54.767	0.00	0.00
ATOM	5398	HG21	VAL	X	359	57.621	31.674	55.652	0.00	0.00
ATOM	5399	HG22	VAL	X	359	58.121	31.920	53.930	0.00	0.00
ATOM	5400	HG23	VAL	X	359	56.515	32.401	54.410	0.00	0.00
ATOM	5401	C	VAL	X	359	58.329	36.137	54.129	0.00	0.00
ATOM	5402	O	VAL	X	359	57.430	36.919	53.965	0.00	0.00
ATOM	5403	N	ARG	X	360	59.549	36.534	54.530	0.00	0.00
ATOM	5404	H	ARG	X	360	60.323	35.896	54.653	0.00	0.00
ATOM	5405	CA	ARG	X	360	59.938	37.912	54.921	0.00	0.00
ATOM	5406	HA	ARG	X	360	59.329	38.123	55.801	0.00	0.00
ATOM	5407	CB	ARG	X	360	61.435	37.945	55.288	0.00	0.00
ATOM	5408	HB2	ARG	X	360	61.994	37.258	54.654	0.00	0.00
ATOM	5409	HB3	ARG	X	360	61.645	39.006	55.150	0.00	0.00
ATOM	5410	CG	ARG	X	360	61.700	37.608	56.769	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.118	38.232	57.448	0.00	0.00
ATOM	5412	HG3	ARG	X	360	61.409	36.572	56.940	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.185	37.729	57.181	0.00	0.00
ATOM	5414	HD2	ARG	X	360	63.349	38.803	57.099	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.226	37.342	58.199	0.00	0.00
ATOM	5416	NE	ARG	X	360	64.070	36.966	56.281	0.00	0.00
ATOM	5417	HE	ARG	X	360	63.849	37.038	55.298	0.00	0.00
ATOM	5418	CZ	ARG	X	360	65.222	36.353	56.514	0.00	0.00
ATOM	5419	NH1	ARG	X	360	65.767	36.157	57.717	0.00	0.00
ATOM	5420	HH11	ARG	X	360	65.327	36.557	58.533	0.00	0.00
ATOM	5421	HH12	ARG	X	360	66.770	36.040	57.748	0.00	0.00
ATOM	5422	NH2	ARG	X	360	65.979	35.988	55.453	0.00	0.00
ATOM	5423	HH21	ARG	X	360	65.581	36.064	54.528	0.00	0.00
ATOM	5424	HH22	ARG	X	360	66.624	35.226	55.604	0.00	0.00
ATOM	5425	C	ARG	X	360	59.506	38.984	53.934	0.00	0.00
ATOM	5426	O	ARG	X	360	59.414	40.195	54.293	0.00	0.00
ATOM	5427	N	VAL	X	361	59.292	38.627	52.616	0.00	0.00
ATOM	5428	H	VAL	X	361	59.543	37.705	52.288	0.00	0.00
ATOM	5429	CA	VAL	X	361	58.651	39.383	51.539	0.00	0.00
ATOM	5430	HA	VAL	X	361	58.810	40.423	51.822	0.00	0.00
ATOM	5431	CB	VAL	X	361	59.430	39.370	50.141	0.00	0.00

ATOM	5432	HB	VAL	X	361	58.964	40.071	49.449	0.00	0.00
ATOM	5433	CG1	VAL	X	361	60.846	39.894	50.266	0.00	0.00
ATOM	5434	HG11	VAL	X	361	61.349	39.200	50.939	0.00	0.00
ATOM	5435	HG12	VAL	X	361	61.249	39.910	49.254	0.00	0.00
ATOM	5436	HG13	VAL	X	361	60.902	40.940	50.571	0.00	0.00
ATOM	5437	CG2	VAL	X	361	59.400	38.003	49.452	0.00	0.00
ATOM	5438	HG21	VAL	X	361	58.366	37.670	49.543	0.00	0.00
ATOM	5439	HG22	VAL	X	361	60.115	37.289	49.860	0.00	0.00
ATOM	5440	HG23	VAL	X	361	59.463	38.188	48.380	0.00	0.00
ATOM	5441	C	VAL	X	361	57.100	39.097	51.348	0.00	0.00
ATOM	5442	O	VAL	X	361	56.328	39.999	51.037	0.00	0.00
ATOM	5443	N	GLY	X	362	56.719	37.772	51.445	0.00	0.00
ATOM	5444	H	GLY	X	362	57.443	37.137	51.750	0.00	0.00
ATOM	5445	CA	GLY	X	362	55.491	37.218	50.999	0.00	0.00
ATOM	5446	HA2	GLY	X	362	55.120	37.547	50.029	0.00	0.00
ATOM	5447	HA3	GLY	X	362	55.671	36.150	50.873	0.00	0.00
ATOM	5448	C	GLY	X	362	54.383	37.338	52.007	0.00	0.00
ATOM	5449	O	GLY	X	362	53.197	37.219	51.667	0.00	0.00
ATOM	5450	N	VAL	X	363	54.803	37.657	53.229	0.00	0.00
ATOM	5451	H	VAL	X	363	55.788	37.620	53.450	0.00	0.00
ATOM	5452	CA	VAL	X	363	53.938	38.262	54.216	0.00	0.00
ATOM	5453	HA	VAL	X	363	52.919	38.226	53.830	0.00	0.00
ATOM	5454	CB	VAL	X	363	53.930	37.472	55.549	0.00	0.00
ATOM	5455	HB	VAL	X	363	54.870	37.593	56.086	0.00	0.00
ATOM	5456	CG1	VAL	X	363	52.775	38.043	56.442	0.00	0.00
ATOM	5457	HG11	VAL	X	363	52.945	39.099	56.649	0.00	0.00
ATOM	5458	HG12	VAL	X	363	51.911	37.939	55.785	0.00	0.00
ATOM	5459	HG13	VAL	X	363	52.676	37.506	57.385	0.00	0.00
ATOM	5460	CG2	VAL	X	363	53.517	35.946	55.484	0.00	0.00
ATOM	5461	HG21	VAL	X	363	52.514	35.798	55.084	0.00	0.00
ATOM	5462	HG22	VAL	X	363	53.679	35.573	56.495	0.00	0.00
ATOM	5463	HG23	VAL	X	363	54.297	35.397	54.955	0.00	0.00
ATOM	5464	C	VAL	X	363	54.442	39.711	54.438	0.00	0.00
ATOM	5465	O	VAL	X	363	55.555	39.952	54.942	0.00	0.00
ATOM	5466	N	PRO	X	364	53.742	40.718	53.916	0.00	0.00
ATOM	5467	CD	PRO	X	364	52.650	40.653	52.910	0.00	0.00
ATOM	5468	HD2	PRO	X	364	51.736	40.438	53.463	0.00	0.00
ATOM	5469	HD3	PRO	X	364	52.754	39.942	52.090	0.00	0.00
ATOM	5470	CG	PRO	X	364	52.501	42.019	52.243	0.00	0.00
ATOM	5471	HG2	PRO	X	364	51.448	42.100	51.972	0.00	0.00
ATOM	5472	HG3	PRO	X	364	53.127	42.088	51.353	0.00	0.00
ATOM	5473	CB	PRO	X	364	52.944	42.939	53.338	0.00	0.00
ATOM	5474	HB2	PRO	X	364	52.075	43.098	53.976	0.00	0.00
ATOM	5475	HB3	PRO	X	364	53.289	43.919	53.008	0.00	0.00
ATOM	5476	CA	PRO	X	364	53.987	42.134	54.200	0.00	0.00
ATOM	5477	HA	PRO	X	364	54.990	42.349	53.833	0.00	0.00
ATOM	5478	C	PRO	X	364	53.995	42.535	55.676	0.00	0.00
ATOM	5479	O	PRO	X	364	53.308	41.913	56.497	0.00	0.00
ATOM	5480	N	GLN	X	365	54.767	43.595	56.021	0.00	0.00
ATOM	5481	H	GLN	X	365	55.352	44.009	55.309	0.00	0.00
ATOM	5482	CA	GLN	X	365	54.846	44.150	57.359	0.00	0.00
ATOM	5483	HA	GLN	X	365	55.308	45.116	57.156	0.00	0.00
ATOM	5484	CB	GLN	X	365	53.473	44.369	57.942	0.00	0.00
ATOM	5485	HB2	GLN	X	365	52.715	44.409	57.159	0.00	0.00
ATOM	5486	HB3	GLN	X	365	53.207	43.649	58.716	0.00	0.00
ATOM	5487	CG	GLN	X	365	53.173	45.610	58.760	0.00	0.00
ATOM	5488	HG2	GLN	X	365	53.702	45.555	59.711	0.00	0.00
ATOM	5489	HG3	GLN	X	365	53.574	46.495	58.267	0.00	0.00
ATOM	5490	CD	GLN	X	365	51.644	45.776	59.058	0.00	0.00
ATOM	5491	OE1	GLN	X	365	51.296	45.758	60.213	0.00	0.00
ATOM	5492	NE2	GLN	X	365	50.739	46.036	58.158	0.00	0.00
ATOM	5493	HE21	GLN	X	365	49.759	46.141	58.379	0.00	0.00
ATOM	5494	HE22	GLN	X	365	51.123	46.233	57.245	0.00	0.00
ATOM	5495	C	GLN	X	365	55.700	43.374	58.389	0.00	0.00
ATOM	5496	O	GLN	X	365	56.053	43.913	59.389	0.00	0.00
ATOM	5497	N	VAL	X	366	56.050	42.151	58.142	0.00	0.00
ATOM	5498	H	VAL	X	366	55.696	41.739	57.290	0.00	0.00

ATOM	5499	CA	VAL	X	366	56.555	41.147	59.117	0.00	0.00
ATOM	5500	HA	VAL	X	366	55.854	41.274	59.943	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.322	39.717	58.574	0.00	0.00
ATOM	5502	HB	VAL	X	366	55.380	39.678	58.027	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.372	39.342	57.523	0.00	0.00
ATOM	5504	HG11	VAL	X	366	58.249	38.901	57.998	0.00	0.00
ATOM	5505	HG12	VAL	X	366	56.969	38.586	56.849	0.00	0.00
ATOM	5506	HG13	VAL	X	366	57.736	40.168	56.913	0.00	0.00
ATOM	5507	CG2	VAL	X	366	56.225	38.536	59.562	0.00	0.00
ATOM	5508	HG21	VAL	X	366	55.250	38.400	60.029	0.00	0.00
ATOM	5509	HG22	VAL	X	366	56.916	38.764	60.374	0.00	0.00
ATOM	5510	HG23	VAL	X	366	56.537	37.572	59.161	0.00	0.00
ATOM	5511	C	VAL	X	366	57.976	41.321	59.690	0.00	0.00
ATOM	5512	O	VAL	X	366	58.952	41.640	58.996	0.00	0.00
ATOM	5513	N	SER	X	367	58.122	41.166	61.002	0.00	0.00
ATOM	5514	H	SER	X	367	57.454	40.736	61.626	0.00	0.00
ATOM	5515	CA	SER	X	367	59.419	41.096	61.729	0.00	0.00
ATOM	5516	HA	SER	X	367	60.029	41.873	61.267	0.00	0.00
ATOM	5517	CB	SER	X	367	59.223	41.465	63.174	0.00	0.00
ATOM	5518	HB2	SER	X	367	60.136	41.244	63.728	0.00	0.00
ATOM	5519	HB3	SER	X	367	59.001	42.532	63.170	0.00	0.00
ATOM	5520	OG	SER	X	367	58.088	40.839	63.789	0.00	0.00
ATOM	5521	HG	SER	X	367	57.669	41.452	64.398	0.00	0.00
ATOM	5522	C	SER	X	367	60.109	39.713	61.562	0.00	0.00
ATOM	5523	O	SER	X	367	59.488	38.630	61.456	0.00	0.00
ATOM	5524	N	ASP	X	368	61.450	39.728	61.468	0.00	0.00
ATOM	5525	H	ASP	X	368	61.870	40.646	61.481	0.00	0.00
ATOM	5526	CA	ASP	X	368	62.255	38.514	61.281	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.033	38.128	60.286	0.00	0.00
ATOM	5528	CB	ASP	X	368	63.763	38.873	61.416	0.00	0.00
ATOM	5529	HB2	ASP	X	368	64.005	39.693	60.739	0.00	0.00
ATOM	5530	HB3	ASP	X	368	64.011	39.150	62.440	0.00	0.00
ATOM	5531	CG	ASP	X	368	64.613	37.635	61.121	0.00	0.00
ATOM	5532	OD1	ASP	X	368	65.186	37.124	62.121	0.00	0.00
ATOM	5533	OD2	ASP	X	368	64.823	37.339	59.952	0.00	0.00
ATOM	5534	C	ASP	X	368	61.961	37.333	62.246	0.00	0.00
ATOM	5535	O	ASP	X	368	61.908	36.185	61.750	0.00	0.00
ATOM	5536	N	LEU	X	369	61.621	37.594	63.547	0.00	0.00
ATOM	5537	H	LEU	X	369	61.743	38.498	63.981	0.00	0.00
ATOM	5538	CA	LEU	X	369	61.241	36.521	64.492	0.00	0.00
ATOM	5539	HA	LEU	X	369	61.808	35.612	64.290	0.00	0.00
ATOM	5540	CB	LEU	X	369	61.462	37.034	65.941	0.00	0.00
ATOM	5541	HB2	LEU	X	369	62.451	37.475	66.063	0.00	0.00
ATOM	5542	HB3	LEU	X	369	60.721	37.801	66.167	0.00	0.00
ATOM	5543	CG	LEU	X	369	61.350	35.963	67.033	0.00	0.00
ATOM	5544	HG	LEU	X	369	60.462	35.429	66.693	0.00	0.00
ATOM	5545	CD1	LEU	X	369	62.546	34.913	66.906	0.00	0.00
ATOM	5546	HD11	LEU	X	369	62.423	34.147	67.672	0.00	0.00
ATOM	5547	HD12	LEU	X	369	63.510	35.328	67.200	0.00	0.00
ATOM	5548	HD13	LEU	X	369	62.561	34.645	65.850	0.00	0.00
ATOM	5549	CD2	LEU	X	369	61.300	36.404	68.542	0.00	0.00
ATOM	5550	HD21	LEU	X	369	62.076	37.135	68.772	0.00	0.00
ATOM	5551	HD22	LEU	X	369	60.322	36.832	68.761	0.00	0.00
ATOM	5552	HD23	LEU	X	369	61.288	35.504	69.157	0.00	0.00
ATOM	5553	C	LEU	X	369	59.726	36.050	64.408	0.00	0.00
ATOM	5554	O	LEU	X	369	59.443	34.907	64.636	0.00	0.00
ATOM	5555	N	ALA	X	370	58.861	36.933	63.928	0.00	0.00
ATOM	5556	H	ALA	X	370	59.236	37.817	63.615	0.00	0.00
ATOM	5557	CA	ALA	X	370	57.535	36.481	63.515	0.00	0.00
ATOM	5558	HA	ALA	X	370	57.147	35.820	64.291	0.00	0.00
ATOM	5559	CB	ALA	X	370	56.700	37.754	63.319	0.00	0.00
ATOM	5560	HB1	ALA	X	370	55.807	37.494	62.752	0.00	0.00
ATOM	5561	HB2	ALA	X	370	57.278	38.479	62.746	0.00	0.00
ATOM	5562	HB3	ALA	X	370	56.518	38.160	64.314	0.00	0.00
ATOM	5563	C	ALA	X	370	57.492	35.674	62.175	0.00	0.00
ATOM	5564	O	ALA	X	370	56.815	34.694	61.995	0.00	0.00
ATOM	5565	N	ALA	X	371	58.439	35.969	61.245	0.00	0.00

ATOM	5566	H	ALA	X	371	58.983	36.800	61.430	0.00	0.00
ATOM	5567	CA	ALA	X	371	58.600	35.166	59.963	0.00	0.00
ATOM	5568	HA	ALA	X	371	57.599	35.010	59.560	0.00	0.00
ATOM	5569	CB	ALA	X	371	59.603	35.874	59.072	0.00	0.00
ATOM	5570	HB1	ALA	X	371	60.595	35.950	59.518	0.00	0.00
ATOM	5571	HB2	ALA	X	371	59.303	36.873	58.756	0.00	0.00
ATOM	5572	HB3	ALA	X	371	59.680	35.324	58.134	0.00	0.00
ATOM	5573	C	ALA	X	371	59.185	33.802	60.395	0.00	0.00
ATOM	5574	O	ALA	X	371	58.728	32.726	59.913	0.00	0.00
ATOM	5575	N	GLU	X	372	60.075	33.713	61.453	0.00	0.00
ATOM	5576	H	GLU	X	372	60.451	34.523	61.925	0.00	0.00
ATOM	5577	CA	GLU	X	372	60.446	32.360	61.933	0.00	0.00
ATOM	5578	HA	GLU	X	372	60.865	31.777	61.113	0.00	0.00
ATOM	5579	CB	GLU	X	372	61.524	32.441	63.055	0.00	0.00
ATOM	5580	HB2	GLU	X	372	61.208	33.214	63.756	0.00	0.00
ATOM	5581	HB3	GLU	X	372	61.538	31.451	63.511	0.00	0.00
ATOM	5582	CG	GLU	X	372	62.875	32.804	62.534	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.103	32.137	61.702	0.00	0.00
ATOM	5584	HG3	GLU	X	372	62.972	33.831	62.184	0.00	0.00
ATOM	5585	CD	GLU	X	372	63.919	32.510	63.612	0.00	0.00
ATOM	5586	OE1	GLU	X	372	64.856	33.283	63.808	0.00	0.00
ATOM	5587	OE2	GLU	X	372	63.760	31.455	64.339	0.00	0.00
ATOM	5588	C	GLU	X	372	59.187	31.556	62.327	0.00	0.00
ATOM	5589	O	GLU	X	372	59.062	30.426	62.028	0.00	0.00
ATOM	5590	N	ALA	X	373	58.244	32.183	63.022	0.00	0.00
ATOM	5591	H	ALA	X	373	58.274	33.133	63.364	0.00	0.00
ATOM	5592	CA	ALA	X	373	57.063	31.396	63.409	0.00	0.00
ATOM	5593	HA	ALA	X	373	57.287	30.482	63.960	0.00	0.00
ATOM	5594	CB	ALA	X	373	56.279	32.303	64.384	0.00	0.00
ATOM	5595	HB1	ALA	X	373	56.028	33.292	63.999	0.00	0.00
ATOM	5596	HB2	ALA	X	373	56.908	32.351	65.272	0.00	0.00
ATOM	5597	HB3	ALA	X	373	55.369	31.810	64.727	0.00	0.00
ATOM	5598	C	ALA	X	373	56.146	30.965	62.254	0.00	0.00
ATOM	5599	O	ALA	X	373	55.444	29.963	62.358	0.00	0.00
ATOM	5600	N	VAL	X	374	56.115	31.742	61.120	0.00	0.00
ATOM	5601	H	VAL	X	374	56.400	32.705	61.222	0.00	0.00
ATOM	5602	CA	VAL	X	374	55.302	31.406	59.896	0.00	0.00
ATOM	5603	HA	VAL	X	374	54.267	31.154	60.130	0.00	0.00
ATOM	5604	CB	VAL	X	374	55.174	32.531	58.858	0.00	0.00
ATOM	5605	HB	VAL	X	374	56.146	33.015	58.766	0.00	0.00
ATOM	5606	CG1	VAL	X	374	54.707	32.160	57.460	0.00	0.00
ATOM	5607	HG11	VAL	X	374	53.818	31.536	57.365	0.00	0.00
ATOM	5608	HG12	VAL	X	374	54.568	33.093	56.915	0.00	0.00
ATOM	5609	HG13	VAL	X	374	55.525	31.640	56.963	0.00	0.00
ATOM	5610	CG2	VAL	X	374	54.405	33.662	59.472	0.00	0.00
ATOM	5611	HG21	VAL	X	374	54.209	34.413	58.707	0.00	0.00
ATOM	5612	HG22	VAL	X	374	54.762	33.925	60.468	0.00	0.00
ATOM	5613	HG23	VAL	X	374	53.414	33.301	59.749	0.00	0.00
ATOM	5614	C	VAL	X	374	56.003	30.192	59.291	0.00	0.00
ATOM	5615	O	VAL	X	374	55.282	29.245	58.896	0.00	0.00
ATOM	5616	N	VAL	X	375	57.315	30.197	59.207	0.00	0.00
ATOM	5617	H	VAL	X	375	57.757	31.062	59.485	0.00	0.00
ATOM	5618	CA	VAL	X	375	58.104	29.040	58.649	0.00	0.00
ATOM	5619	HA	VAL	X	375	57.799	28.758	57.642	0.00	0.00
ATOM	5620	CB	VAL	X	375	59.669	29.239	58.676	0.00	0.00
ATOM	5621	HB	VAL	X	375	59.947	29.385	59.720	0.00	0.00
ATOM	5622	CG1	VAL	X	375	60.419	27.939	58.377	0.00	0.00
ATOM	5623	HG11	VAL	X	375	61.507	28.003	58.374	0.00	0.00
ATOM	5624	HG12	VAL	X	375	60.269	27.258	59.215	0.00	0.00
ATOM	5625	HG13	VAL	X	375	60.006	27.438	57.502	0.00	0.00
ATOM	5626	CG2	VAL	X	375	60.054	30.316	57.780	0.00	0.00
ATOM	5627	HG21	VAL	X	375	59.730	29.890	56.830	0.00	0.00
ATOM	5628	HG22	VAL	X	375	61.131	30.486	57.796	0.00	0.00
ATOM	5629	HG23	VAL	X	375	59.654	31.303	58.012	0.00	0.00
ATOM	5630	C	VAL	X	375	57.662	27.832	59.380	0.00	0.00
ATOM	5631	O	VAL	X	375	57.369	26.784	58.788	0.00	0.00
ATOM	5632	N	LEU	X	376	57.659	27.919	60.718	0.00	0.00

ATOM	5633	H	LEU	X	376	57.881	28.856	61.023	0.00	0.00
ATOM	5634	CA	LEU	X	376	57.239	26.853	61.641	0.00	0.00
ATOM	5635	HA	LEU	X	376	57.969	26.077	61.406	0.00	0.00
ATOM	5636	CB	LEU	X	376	57.507	27.329	63.149	0.00	0.00
ATOM	5637	HB2	LEU	X	376	58.420	27.914	63.252	0.00	0.00
ATOM	5638	HB3	LEU	X	376	56.661	27.978	63.376	0.00	0.00
ATOM	5639	CG	LEU	X	376	57.579	26.120	64.133	0.00	0.00
ATOM	5640	HG	LEU	X	376	56.751	25.458	63.880	0.00	0.00
ATOM	5641	CD1	LEU	X	376	58.858	25.230	63.945	0.00	0.00
ATOM	5642	HD11	LEU	X	376	58.912	24.800	62.945	0.00	0.00
ATOM	5643	HD12	LEU	X	376	58.863	24.443	64.699	0.00	0.00
ATOM	5644	HD13	LEU	X	376	59.784	25.798	64.039	0.00	0.00
ATOM	5645	CD2	LEU	X	376	57.519	26.635	65.578	0.00	0.00
ATOM	5646	HD21	LEU	X	376	58.512	26.883	65.953	0.00	0.00
ATOM	5647	HD22	LEU	X	376	56.858	27.500	65.537	0.00	0.00
ATOM	5648	HD23	LEU	X	376	57.028	25.932	66.251	0.00	0.00
ATOM	5649	C	LEU	X	376	55.817	26.298	61.506	0.00	0.00
ATOM	5650	O	LEU	X	376	55.614	25.118	61.386	0.00	0.00
ATOM	5651	N	HIE	X	377	54.790	27.146	61.375	0.00	0.00
ATOM	5652	H	HIE	X	377	55.006	28.129	61.465	0.00	0.00
ATOM	5653	CA	HIE	X	377	53.364	26.787	61.174	0.00	0.00
ATOM	5654	HA	HIE	X	377	53.029	26.150	61.992	0.00	0.00
ATOM	5655	CB	HIE	X	377	52.523	28.107	61.074	0.00	0.00
ATOM	5656	HB2	HIE	X	377	52.572	28.617	62.036	0.00	0.00
ATOM	5657	HB3	HIE	X	377	52.868	28.722	60.243	0.00	0.00
ATOM	5658	CG	HIE	X	377	51.091	27.654	60.770	0.00	0.00
ATOM	5659	ND1	HIE	X	377	50.464	26.620	61.416	0.00	0.00
ATOM	5660	CE1	HIE	X	377	49.198	26.757	60.999	0.00	0.00
ATOM	5661	HE1	HIE	X	377	48.384	26.167	61.392	0.00	0.00
ATOM	5662	NE2	HIE	X	377	48.995	27.802	60.169	0.00	0.00
ATOM	5663	HE2	HIE	X	377	48.127	28.289	60.000	0.00	0.00
ATOM	5664	CD2	HIE	X	377	50.203	28.441	60.055	0.00	0.00
ATOM	5665	HD2	HIE	X	377	50.367	29.445	59.694	0.00	0.00
ATOM	5666	C	HIE	X	377	53.165	25.898	59.928	0.00	0.00
ATOM	5667	O	HIE	X	377	52.431	24.910	59.936	0.00	0.00
ATOM	5668	N	TYR	X	378	53.754	26.244	58.811	0.00	0.00
ATOM	5669	H	TYR	X	378	54.377	27.038	58.765	0.00	0.00
ATOM	5670	CA	TYR	X	378	53.594	25.617	57.503	0.00	0.00
ATOM	5671	HA	TYR	X	378	52.589	25.199	57.450	0.00	0.00
ATOM	5672	CB	TYR	X	378	53.616	26.783	56.451	0.00	0.00
ATOM	5673	HB2	TYR	X	378	54.472	27.427	56.654	0.00	0.00
ATOM	5674	HB3	TYR	X	378	53.924	26.417	55.471	0.00	0.00
ATOM	5675	CG	TYR	X	378	52.302	27.546	56.312	0.00	0.00
ATOM	5676	CD1	TYR	X	378	51.447	27.145	55.257	0.00	0.00
ATOM	5677	HD1	TYR	X	378	51.799	26.344	54.623	0.00	0.00
ATOM	5678	CE1	TYR	X	378	50.233	27.805	55.066	0.00	0.00
ATOM	5679	HE1	TYR	X	378	49.608	27.589	54.212	0.00	0.00
ATOM	5680	CZ	TYR	X	378	49.901	28.804	55.964	0.00	0.00
ATOM	5681	OH	TYR	X	378	48.793	29.542	55.749	0.00	0.00
ATOM	5682	HH	TYR	X	378	48.254	29.074	55.108	0.00	0.00
ATOM	5683	CE2	TYR	X	378	50.795	29.219	57.013	0.00	0.00
ATOM	5684	HE2	TYR	X	378	50.588	30.135	57.547	0.00	0.00
ATOM	5685	CD2	TYR	X	378	51.990	28.550	57.193	0.00	0.00
ATOM	5686	HD2	TYR	X	378	52.600	28.905	58.010	0.00	0.00
ATOM	5687	C	TYR	X	378	54.546	24.456	57.310	0.00	0.00
ATOM	5688	O	TYR	X	378	54.421	23.843	56.226	0.00	0.00
ATOM	5689	N	THR	X	379	55.291	24.033	58.342	0.00	0.00
ATOM	5690	H	THR	X	379	55.255	24.575	59.193	0.00	0.00
ATOM	5691	CA	THR	X	379	56.172	22.904	58.252	0.00	0.00
ATOM	5692	HA	THR	X	379	56.665	22.931	57.280	0.00	0.00
ATOM	5693	CB	THR	X	379	57.223	22.947	59.362	0.00	0.00
ATOM	5694	HB	THR	X	379	56.560	22.994	60.227	0.00	0.00
ATOM	5695	CG2	THR	X	379	58.256	21.788	59.273	0.00	0.00
ATOM	5696	HG21	THR	X	379	58.845	21.952	58.371	0.00	0.00
ATOM	5697	HG22	THR	X	379	57.822	20.788	59.311	0.00	0.00
ATOM	5698	HG23	THR	X	379	58.973	21.846	60.092	0.00	0.00
ATOM	5699	OG1	THR	X	379	57.946	24.104	59.275	0.00	0.00

ATOM	5700	HG1	THR	X	379	57.316	24.727	58.906	0.00	0.00
ATOM	5701	C	THR	X	379	55.374	21.628	58.221	0.00	0.00
ATOM	5702	O	THR	X	379	54.556	21.414	59.093	0.00	0.00
ATOM	5703	N	ASP	X	380	55.648	20.880	57.192	0.00	0.00
ATOM	5704	H	ASP	X	380	56.261	21.280	56.496	0.00	0.00
ATOM	5705	CA	ASP	X	380	55.367	19.474	57.085	0.00	0.00
ATOM	5706	HA	ASP	X	380	54.428	19.201	57.567	0.00	0.00
ATOM	5707	CB	ASP	X	380	55.119	19.027	55.629	0.00	0.00
ATOM	5708	HB2	ASP	X	380	54.366	19.678	55.187	0.00	0.00
ATOM	5709	HB3	ASP	X	380	56.037	19.169	55.059	0.00	0.00
ATOM	5710	CG	ASP	X	380	54.732	17.560	55.523	0.00	0.00
ATOM	5711	OD1	ASP	X	380	53.474	17.298	55.342	0.00	0.00
ATOM	5712	OD2	ASP	X	380	55.628	16.696	55.639	0.00	0.00
ATOM	5713	C	ASP	X	380	56.502	18.796	57.796	0.00	0.00
ATOM	5714	O	ASP	X	380	57.635	18.900	57.344	0.00	0.00
ATOM	5715	N	TRP	X	381	56.247	18.021	58.883	0.00	0.00
ATOM	5716	H	TRP	X	381	55.314	17.880	59.244	0.00	0.00
ATOM	5717	CA	TRP	X	381	57.248	17.399	59.700	0.00	0.00
ATOM	5718	HA	TRP	X	381	58.090	18.089	59.758	0.00	0.00
ATOM	5719	CB	TRP	X	381	56.800	17.332	61.194	0.00	0.00
ATOM	5720	HB2	TRP	X	381	55.785	16.936	61.229	0.00	0.00
ATOM	5721	HB3	TRP	X	381	57.471	16.670	61.742	0.00	0.00
ATOM	5722	CG	TRP	X	381	56.746	18.700	61.785	0.00	0.00
ATOM	5723	CD1	TRP	X	381	55.589	19.390	62.000	0.00	0.00
ATOM	5724	HD1	TRP	X	381	54.647	19.020	61.625	0.00	0.00
ATOM	5725	NE1	TRP	X	381	55.808	20.624	62.539	0.00	0.00
ATOM	5726	HE1	TRP	X	381	55.070	21.301	62.672	0.00	0.00
ATOM	5727	CE2	TRP	X	381	57.192	20.856	62.755	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	57.986	21.881	63.207	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	57.515	22.818	63.467	0.00	0.00
ATOM	5730	CH2	TRP	X	381	59.374	21.814	63.229	0.00	0.00
ATOM	5731	HH2	TRP	X	381	60.010	22.672	63.385	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	59.956	20.575	62.938	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	61.013	20.367	63.013	0.00	0.00
ATOM	5734	CE3	TRP	X	381	59.187	19.513	62.436	0.00	0.00
ATOM	5735	HE3	TRP	X	381	59.682	18.608	62.117	0.00	0.00
ATOM	5736	CD2	TRP	X	381	57.790	19.619	62.208	0.00	0.00
ATOM	5737	C	TRP	X	381	57.830	16.067	59.153	0.00	0.00
ATOM	5738	O	TRP	X	381	59.027	15.859	59.499	0.00	0.00
ATOM	5739	N	LEU	X	382	57.141	15.320	58.338	0.00	0.00
ATOM	5740	H	LEU	X	382	56.262	15.718	58.040	0.00	0.00
ATOM	5741	CA	LEU	X	382	57.841	14.336	57.445	0.00	0.00
ATOM	5742	HA	LEU	X	382	58.438	13.719	58.117	0.00	0.00
ATOM	5743	CB	LEU	X	382	56.713	13.361	56.931	0.00	0.00
ATOM	5744	HB2	LEU	X	382	56.112	12.996	57.763	0.00	0.00
ATOM	5745	HB3	LEU	X	382	55.968	13.773	56.250	0.00	0.00
ATOM	5746	CG	LEU	X	382	57.421	12.206	56.123	0.00	0.00
ATOM	5747	HG	LEU	X	382	58.031	12.647	55.335	0.00	0.00
ATOM	5748	CD1	LEU	X	382	58.290	11.321	56.899	0.00	0.00
ATOM	5749	HD11	LEU	X	382	58.962	12.006	57.416	0.00	0.00
ATOM	5750	HD12	LEU	X	382	58.891	10.619	56.320	0.00	0.00
ATOM	5751	HD13	LEU	X	382	57.662	10.788	57.613	0.00	0.00
ATOM	5752	CD2	LEU	X	382	56.390	11.316	55.429	0.00	0.00
ATOM	5753	HD21	LEU	X	382	56.707	10.328	55.095	0.00	0.00
ATOM	5754	HD22	LEU	X	382	55.509	11.203	56.061	0.00	0.00
ATOM	5755	HD23	LEU	X	382	56.097	11.804	54.500	0.00	0.00
ATOM	5756	C	LEU	X	382	58.774	15.012	56.464	0.00	0.00
ATOM	5757	O	LEU	X	382	59.933	14.500	56.299	0.00	0.00
ATOM	5758	N	HIE	X	383	58.435	16.204	55.949	0.00	0.00
ATOM	5759	H	HIE	X	383	57.503	16.494	56.207	0.00	0.00
ATOM	5760	CA	HIE	X	383	59.050	16.885	54.819	0.00	0.00
ATOM	5761	HA	HIE	X	383	59.940	16.301	54.584	0.00	0.00
ATOM	5762	CB	HIE	X	383	58.179	16.564	53.636	0.00	0.00
ATOM	5763	HB2	HIE	X	383	57.167	16.933	53.803	0.00	0.00
ATOM	5764	HB3	HIE	X	383	58.601	17.012	52.736	0.00	0.00
ATOM	5765	CG	HIE	X	383	58.062	15.107	53.371	0.00	0.00
ATOM	5766	ND1	HIE	X	383	59.144	14.303	53.179	0.00	0.00

ATOM	5767	CE1	HIE	X	383	58.688	13.100	52.906	0.00	0.00
ATOM	5768	HE1	HIE	X	383	59.313	12.229	52.776	0.00	0.00
ATOM	5769	NE2	HIE	X	383	57.369	13.114	52.865	0.00	0.00
ATOM	5770	HE2	HIE	X	383	56.757	12.317	52.772	0.00	0.00
ATOM	5771	CD2	HIE	X	383	56.933	14.334	53.219	0.00	0.00
ATOM	5772	HD2	HIE	X	383	55.891	14.569	53.379	0.00	0.00
ATOM	5773	C	HIE	X	383	59.462	18.336	55.038	0.00	0.00
ATOM	5774	O	HIE	X	383	58.943	19.190	54.283	0.00	0.00
ATOM	5775	N	PRO	X	384	60.291	18.642	56.029	0.00	0.00
ATOM	5776	CD	PRO	X	384	61.018	17.715	57.000	0.00	0.00
ATOM	5777	HD2	PRO	X	384	61.370	16.769	56.591	0.00	0.00
ATOM	5778	HD3	PRO	X	384	60.198	17.453	57.669	0.00	0.00
ATOM	5779	CG	PRO	X	384	61.931	18.690	57.830	0.00	0.00
ATOM	5780	HG2	PRO	X	384	62.851	18.857	57.269	0.00	0.00
ATOM	5781	HG3	PRO	X	384	62.136	18.339	58.841	0.00	0.00
ATOM	5782	CB	PRO	X	384	61.209	20.026	57.836	0.00	0.00
ATOM	5783	HB2	PRO	X	384	61.845	20.893	58.019	0.00	0.00
ATOM	5784	HB3	PRO	X	384	60.426	20.118	58.589	0.00	0.00
ATOM	5785	CA	PRO	X	384	60.610	20.036	56.449	0.00	0.00
ATOM	5786	HA	PRO	X	384	59.678	20.599	56.495	0.00	0.00
ATOM	5787	C	PRO	X	384	61.511	20.885	55.489	0.00	0.00
ATOM	5788	O	PRO	X	384	61.433	22.084	55.509	0.00	0.00
ATOM	5789	N	GLU	X	385	62.183	20.316	54.482	0.00	0.00
ATOM	5790	H	GLU	X	385	62.011	19.352	54.236	0.00	0.00
ATOM	5791	CA	GLU	X	385	63.173	20.986	53.644	0.00	0.00
ATOM	5792	HA	GLU	X	385	63.077	22.058	53.820	0.00	0.00
ATOM	5793	CB	GLU	X	385	64.537	20.562	54.137	0.00	0.00
ATOM	5794	HB2	GLU	X	385	64.775	19.498	54.162	0.00	0.00
ATOM	5795	HB3	GLU	X	385	65.252	20.891	53.383	0.00	0.00
ATOM	5796	CG	GLU	X	385	64.996	21.236	55.476	0.00	0.00
ATOM	5797	HG2	GLU	X	385	64.689	22.282	55.498	0.00	0.00
ATOM	5798	HG3	GLU	X	385	64.410	20.890	56.328	0.00	0.00
ATOM	5799	CD	GLU	X	385	66.490	21.191	55.812	0.00	0.00
ATOM	5800	OE1	GLU	X	385	67.230	21.637	54.922	0.00	0.00
ATOM	5801	OE2	GLU	X	385	66.891	20.729	56.919	0.00	0.00
ATOM	5802	C	GLU	X	385	62.913	20.791	52.125	0.00	0.00
ATOM	5803	O	GLU	X	385	63.606	21.399	51.296	0.00	0.00
ATOM	5804	N	ASP	X	386	61.782	20.118	51.783	0.00	0.00
ATOM	5805	H	ASP	X	386	61.183	19.684	52.471	0.00	0.00
ATOM	5806	CA	ASP	X	386	61.656	19.579	50.388	0.00	0.00
ATOM	5807	HA	ASP	X	386	62.614	19.126	50.132	0.00	0.00
ATOM	5808	CB	ASP	X	386	60.590	18.449	50.408	0.00	0.00
ATOM	5809	HB2	ASP	X	386	60.976	17.751	51.151	0.00	0.00
ATOM	5810	HB3	ASP	X	386	59.626	18.845	50.726	0.00	0.00
ATOM	5811	CG	ASP	X	386	60.420	17.775	49.039	0.00	0.00
ATOM	5812	OD1	ASP	X	386	59.899	18.417	48.050	0.00	0.00
ATOM	5813	OD2	ASP	X	386	60.470	16.498	48.945	0.00	0.00
ATOM	5814	C	ASP	X	386	61.474	20.738	49.413	0.00	0.00
ATOM	5815	O	ASP	X	386	60.529	21.502	49.645	0.00	0.00
ATOM	5816	N	PRO	X	387	62.176	20.911	48.291	0.00	0.00
ATOM	5817	CD	PRO	X	387	63.074	19.919	47.794	0.00	0.00
ATOM	5818	HD2	PRO	X	387	62.686	18.902	47.843	0.00	0.00
ATOM	5819	HD3	PRO	X	387	64.005	19.868	48.357	0.00	0.00
ATOM	5820	CG	PRO	X	387	63.425	20.300	46.352	0.00	0.00
ATOM	5821	HG2	PRO	X	387	62.717	20.025	45.570	0.00	0.00
ATOM	5822	HG3	PRO	X	387	64.439	20.013	46.072	0.00	0.00
ATOM	5823	CB	PRO	X	387	63.363	21.789	46.434	0.00	0.00
ATOM	5824	HB2	PRO	X	387	63.069	22.242	45.487	0.00	0.00
ATOM	5825	HB3	PRO	X	387	64.289	22.266	46.757	0.00	0.00
ATOM	5826	CA	PRO	X	387	62.220	22.070	47.419	0.00	0.00
ATOM	5827	HA	PRO	X	387	62.456	22.931	48.044	0.00	0.00
ATOM	5828	C	PRO	X	387	60.950	22.307	46.647	0.00	0.00
ATOM	5829	O	PRO	X	387	60.502	23.462	46.535	0.00	0.00
ATOM	5830	N	ALA	X	388	60.139	21.269	46.298	0.00	0.00
ATOM	5831	H	ALA	X	388	60.349	20.349	46.659	0.00	0.00
ATOM	5832	CA	ALA	X	388	58.858	21.570	45.620	0.00	0.00
ATOM	5833	HA	ALA	X	388	58.924	22.460	44.994	0.00	0.00

ATOM	5834	CB	ALA	X	388	58.651	20.468	44.637	0.00	0.00
ATOM	5835	HB1	ALA	X	388	59.556	20.376	44.036	0.00	0.00
ATOM	5836	HB2	ALA	X	388	57.865	20.610	43.894	0.00	0.00
ATOM	5837	HB3	ALA	X	388	58.378	19.502	45.064	0.00	0.00
ATOM	5838	C	ALA	X	388	57.646	21.660	46.566	0.00	0.00
ATOM	5839	O	ALA	X	388	56.644	22.364	46.372	0.00	0.00
ATOM	5840	N	ARG	X	389	57.761	20.912	47.693	0.00	0.00
ATOM	5841	H	ARG	X	389	58.661	20.457	47.753	0.00	0.00
ATOM	5842	CA	ARG	X	389	56.777	20.998	48.795	0.00	0.00
ATOM	5843	HA	ARG	X	389	55.798	20.814	48.354	0.00	0.00
ATOM	5844	CB	ARG	X	389	57.140	19.921	49.825	0.00	0.00
ATOM	5845	HB2	ARG	X	389	57.297	18.993	49.275	0.00	0.00
ATOM	5846	HB3	ARG	X	389	58.081	20.194	50.302	0.00	0.00
ATOM	5847	CG	ARG	X	389	56.080	19.866	50.898	0.00	0.00
ATOM	5848	HG2	ARG	X	389	56.085	20.705	51.593	0.00	0.00
ATOM	5849	HG3	ARG	X	389	55.053	19.680	50.583	0.00	0.00
ATOM	5850	CD	ARG	X	389	56.301	18.750	51.929	0.00	0.00
ATOM	5851	HD2	ARG	X	389	57.360	18.783	52.187	0.00	0.00
ATOM	5852	HD3	ARG	X	389	55.705	18.929	52.824	0.00	0.00
ATOM	5853	NE	ARG	X	389	56.049	17.450	51.426	0.00	0.00
ATOM	5854	HE	ARG	X	389	56.849	17.031	50.974	0.00	0.00
ATOM	5855	CZ	ARG	X	389	54.965	16.719	51.595	0.00	0.00
ATOM	5856	NH1	ARG	X	389	53.943	17.092	52.314	0.00	0.00
ATOM	5857	HH11	ARG	X	389	53.930	18.025	52.702	0.00	0.00
ATOM	5858	HH12	ARG	X	389	53.145	16.473	52.326	0.00	0.00
ATOM	5859	NH2	ARG	X	389	55.020	15.466	51.054	0.00	0.00
ATOM	5860	HH21	ARG	X	389	55.826	15.171	50.522	0.00	0.00
ATOM	5861	HH22	ARG	X	389	54.166	14.940	50.936	0.00	0.00
ATOM	5862	C	ARG	X	389	56.879	22.488	49.336	0.00	0.00
ATOM	5863	O	ARG	X	389	55.887	23.199	49.444	0.00	0.00
ATOM	5864	N	LEU	X	390	58.054	22.944	49.718	0.00	0.00
ATOM	5865	H	LEU	X	390	58.794	22.277	49.883	0.00	0.00
ATOM	5866	CA	LEU	X	390	58.254	24.340	50.196	0.00	0.00
ATOM	5867	HA	LEU	X	390	57.863	24.436	51.209	0.00	0.00
ATOM	5868	CB	LEU	X	390	59.748	24.562	50.383	0.00	0.00
ATOM	5869	HB2	LEU	X	390	60.283	24.160	49.523	0.00	0.00
ATOM	5870	HB3	LEU	X	390	59.887	25.638	50.484	0.00	0.00
ATOM	5871	CG	LEU	X	390	60.501	23.982	51.575	0.00	0.00
ATOM	5872	HG	LEU	X	390	60.238	22.943	51.773	0.00	0.00
ATOM	5873	CD1	LEU	X	390	62.051	24.189	51.417	0.00	0.00
ATOM	5874	HD11	LEU	X	390	62.182	25.257	51.243	0.00	0.00
ATOM	5875	HD12	LEU	X	390	62.431	23.819	50.465	0.00	0.00
ATOM	5876	HD13	LEU	X	390	62.657	23.840	52.253	0.00	0.00
ATOM	5877	CD2	LEU	X	390	60.169	24.698	52.850	0.00	0.00
ATOM	5878	HD21	LEU	X	390	59.090	24.840	52.914	0.00	0.00
ATOM	5879	HD22	LEU	X	390	60.616	24.149	53.679	0.00	0.00
ATOM	5880	HD23	LEU	X	390	60.533	25.718	52.729	0.00	0.00
ATOM	5881	C	LEU	X	390	57.781	25.316	49.070	0.00	0.00
ATOM	5882	O	LEU	X	390	57.074	26.232	49.374	0.00	0.00
ATOM	5883	N	ARG	X	391	58.006	25.084	47.809	0.00	0.00
ATOM	5884	H	ARG	X	391	58.542	24.257	47.589	0.00	0.00
ATOM	5885	CA	ARG	X	391	57.596	25.986	46.774	0.00	0.00
ATOM	5886	HA	ARG	X	391	57.838	27.006	47.074	0.00	0.00
ATOM	5887	CB	ARG	X	391	58.372	25.664	45.461	0.00	0.00
ATOM	5888	HB2	ARG	X	391	59.434	25.548	45.674	0.00	0.00
ATOM	5889	HB3	ARG	X	391	57.844	24.783	45.098	0.00	0.00
ATOM	5890	CG	ARG	X	391	58.212	26.776	44.346	0.00	0.00
ATOM	5891	HG2	ARG	X	391	57.214	27.207	44.427	0.00	0.00
ATOM	5892	HG3	ARG	X	391	58.918	27.602	44.433	0.00	0.00
ATOM	5893	CD	ARG	X	391	58.389	26.180	42.920	0.00	0.00
ATOM	5894	HD2	ARG	X	391	58.020	26.931	42.221	0.00	0.00
ATOM	5895	HD3	ARG	X	391	59.415	25.915	42.667	0.00	0.00
ATOM	5896	NE	ARG	X	391	57.565	25.028	42.643	0.00	0.00
ATOM	5897	HE	ARG	X	391	58.093	24.302	42.181	0.00	0.00
ATOM	5898	CZ	ARG	X	391	56.255	24.798	42.801	0.00	0.00
ATOM	5899	NH1	ARG	X	391	55.383	25.650	43.217	0.00	0.00
ATOM	5900	HH11	ARG	X	391	55.613	26.565	43.577	0.00	0.00

ATOM	5901	HH12	ARG	X	391	54.459	25.245	43.270	0.00	0.00
ATOM	5902	NH2	ARG	X	391	55.772	23.591	42.603	0.00	0.00
ATOM	5903	HH21	ARG	X	391	56.380	22.839	42.312	0.00	0.00
ATOM	5904	HH22	ARG	X	391	54.860	23.332	42.952	0.00	0.00
ATOM	5905	C	ARG	X	391	56.043	26.036	46.579	0.00	0.00
ATOM	5906	O	ARG	X	391	55.574	27.097	46.276	0.00	0.00
ATOM	5907	N	GLU	X	392	55.343	24.942	46.773	0.00	0.00
ATOM	5908	H	GLU	X	392	55.825	24.055	46.776	0.00	0.00
ATOM	5909	CA	GLU	X	392	53.867	24.912	46.869	0.00	0.00
ATOM	5910	HA	GLU	X	392	53.501	25.555	46.069	0.00	0.00
ATOM	5911	CB	GLU	X	392	53.291	23.502	46.841	0.00	0.00
ATOM	5912	HB2	GLU	X	392	53.765	22.977	47.671	0.00	0.00
ATOM	5913	HB3	GLU	X	392	52.211	23.603	46.949	0.00	0.00
ATOM	5914	CG	GLU	X	392	53.364	22.689	45.531	0.00	0.00
ATOM	5915	HG2	GLU	X	392	54.393	22.673	45.171	0.00	0.00
ATOM	5916	HG3	GLU	X	392	52.984	21.695	45.770	0.00	0.00
ATOM	5917	CD	GLU	X	392	52.553	23.375	44.391	0.00	0.00
ATOM	5918	OE1	GLU	X	392	51.454	22.956	44.160	0.00	0.00
ATOM	5919	OE2	GLU	X	392	53.133	24.182	43.647	0.00	0.00
ATOM	5920	C	GLU	X	392	53.474	25.550	48.207	0.00	0.00
ATOM	5921	O	GLU	X	392	52.388	26.133	48.308	0.00	0.00
ATOM	5922	N	ALA	X	393	54.239	25.443	49.362	0.00	0.00
ATOM	5923	H	ALA	X	393	55.087	24.898	49.304	0.00	0.00
ATOM	5924	CA	ALA	X	393	53.826	26.039	50.660	0.00	0.00
ATOM	5925	HA	ALA	X	393	52.755	25.868	50.770	0.00	0.00
ATOM	5926	CB	ALA	X	393	54.532	25.210	51.795	0.00	0.00
ATOM	5927	HB1	ALA	X	393	54.086	25.517	52.741	0.00	0.00
ATOM	5928	HB2	ALA	X	393	55.612	25.355	51.834	0.00	0.00
ATOM	5929	HB3	ALA	X	393	54.372	24.132	51.820	0.00	0.00
ATOM	5930	C	ALA	X	393	53.991	27.544	50.739	0.00	0.00
ATOM	5931	O	ALA	X	393	53.160	28.204	51.348	0.00	0.00
ATOM	5932	N	LEU	X	394	54.905	28.122	49.931	0.00	0.00
ATOM	5933	H	LEU	X	394	55.631	27.554	49.518	0.00	0.00
ATOM	5934	CA	LEU	X	394	54.912	29.598	49.670	0.00	0.00
ATOM	5935	HA	LEU	X	394	54.691	29.983	50.666	0.00	0.00
ATOM	5936	CB	LEU	X	394	56.368	30.012	49.301	0.00	0.00
ATOM	5937	HB2	LEU	X	394	57.109	29.395	49.808	0.00	0.00
ATOM	5938	HB3	LEU	X	394	56.491	29.866	48.227	0.00	0.00
ATOM	5939	CG	LEU	X	394	56.509	31.518	49.502	0.00	0.00
ATOM	5940	HG	LEU	X	394	55.555	31.843	49.088	0.00	0.00
ATOM	5941	CD1	LEU	X	394	56.426	32.063	50.971	0.00	0.00
ATOM	5942	HD11	LEU	X	394	57.301	31.922	51.606	0.00	0.00
ATOM	5943	HD12	LEU	X	394	55.491	31.682	51.380	0.00	0.00
ATOM	5944	HD13	LEU	X	394	56.383	33.144	51.105	0.00	0.00
ATOM	5945	CD2	LEU	X	394	57.711	32.110	48.771	0.00	0.00
ATOM	5946	HD21	LEU	X	394	57.748	33.196	48.850	0.00	0.00
ATOM	5947	HD22	LEU	X	394	58.618	31.751	49.258	0.00	0.00
ATOM	5948	HD23	LEU	X	394	57.765	31.742	47.746	0.00	0.00
ATOM	5949	C	LEU	X	394	53.760	30.047	48.743	0.00	0.00
ATOM	5950	O	LEU	X	394	53.222	31.068	48.949	0.00	0.00
ATOM	5951	N	SER	X	395	53.413	29.202	47.839	0.00	0.00
ATOM	5952	H	SER	X	395	53.922	28.346	47.672	0.00	0.00
ATOM	5953	CA	SER	X	395	52.099	29.405	47.186	0.00	0.00
ATOM	5954	HA	SER	X	395	52.134	30.379	46.698	0.00	0.00
ATOM	5955	CB	SER	X	395	52.013	28.363	46.089	0.00	0.00
ATOM	5956	HB2	SER	X	395	52.218	27.345	46.421	0.00	0.00
ATOM	5957	HB3	SER	X	395	50.965	28.400	45.789	0.00	0.00
ATOM	5958	OG	SER	X	395	52.799	28.604	44.978	0.00	0.00
ATOM	5959	HG	SER	X	395	52.569	27.910	44.355	0.00	0.00
ATOM	5960	C	SER	X	395	50.933	29.445	48.177	0.00	0.00
ATOM	5961	O	SER	X	395	50.162	30.450	48.070	0.00	0.00
ATOM	5962	N	ASP	X	396	50.896	28.453	49.080	0.00	0.00
ATOM	5963	H	ASP	X	396	51.483	27.637	48.983	0.00	0.00
ATOM	5964	CA	ASP	X	396	49.873	28.430	50.188	0.00	0.00
ATOM	5965	HA	ASP	X	396	48.887	28.473	49.724	0.00	0.00
ATOM	5966	CB	ASP	X	396	49.978	27.179	51.079	0.00	0.00
ATOM	5967	HB2	ASP	X	396	51.031	26.973	51.271	0.00	0.00

ATOM	5968	HB3	ASP	X	396	49.426	27.299	52.011	0.00	0.00
ATOM	5969	CG	ASP	X	396	49.490	25.903	50.403	0.00	0.00
ATOM	5970	OD1	ASP	X	396	49.768	24.806	50.920	0.00	0.00
ATOM	5971	OD2	ASP	X	396	48.915	25.876	49.250	0.00	0.00
ATOM	5972	C	ASP	X	396	49.880	29.685	51.040	0.00	0.00
ATOM	5973	O	ASP	X	396	48.967	30.451	50.969	0.00	0.00
ATOM	5974	N	VAL	X	397	51.003	29.926	51.750	0.00	0.00
ATOM	5975	H	VAL	X	397	51.749	29.247	51.689	0.00	0.00
ATOM	5976	CA	VAL	X	397	51.270	31.125	52.538	0.00	0.00
ATOM	5977	HA	VAL	X	397	50.641	31.153	53.428	0.00	0.00
ATOM	5978	CB	VAL	X	397	52.799	31.167	53.087	0.00	0.00
ATOM	5979	HB	VAL	X	397	53.506	31.038	52.267	0.00	0.00
ATOM	5980	CG1	VAL	X	397	53.144	32.487	53.852	0.00	0.00
ATOM	5981	HG11	VAL	X	397	52.996	33.378	53.241	0.00	0.00
ATOM	5982	HG12	VAL	X	397	52.345	32.595	54.586	0.00	0.00
ATOM	5983	HG13	VAL	X	397	54.134	32.467	54.306	0.00	0.00
ATOM	5984	CG2	VAL	X	397	52.991	29.979	54.086	0.00	0.00
ATOM	5985	HG21	VAL	X	397	52.559	29.057	53.697	0.00	0.00
ATOM	5986	HG22	VAL	X	397	52.546	30.366	55.003	0.00	0.00
ATOM	5987	HG23	VAL	X	397	54.065	29.874	54.245	0.00	0.00
ATOM	5988	C	VAL	X	397	50.923	32.432	51.787	0.00	0.00
ATOM	5989	O	VAL	X	397	50.233	33.196	52.451	0.00	0.00
ATOM	5990	N	VAL	X	398	51.501	32.679	50.604	0.00	0.00
ATOM	5991	H	VAL	X	398	52.118	32.007	50.172	0.00	0.00
ATOM	5992	CA	VAL	X	398	51.250	33.953	49.949	0.00	0.00
ATOM	5993	HA	VAL	X	398	51.456	34.669	50.745	0.00	0.00
ATOM	5994	CB	VAL	X	398	52.229	34.371	48.799	0.00	0.00
ATOM	5995	HB	VAL	X	398	52.166	33.453	48.215	0.00	0.00
ATOM	5996	CG1	VAL	X	398	51.910	35.605	48.007	0.00	0.00
ATOM	5997	HG11	VAL	X	398	52.008	36.454	48.684	0.00	0.00
ATOM	5998	HG12	VAL	X	398	52.613	35.628	47.173	0.00	0.00
ATOM	5999	HG13	VAL	X	398	50.904	35.556	47.592	0.00	0.00
ATOM	6000	CG2	VAL	X	398	53.674	34.429	49.374	0.00	0.00
ATOM	6001	HG21	VAL	X	398	53.936	33.465	49.809	0.00	0.00
ATOM	6002	HG22	VAL	X	398	53.663	35.132	50.207	0.00	0.00
ATOM	6003	HG23	VAL	X	398	54.448	34.644	48.638	0.00	0.00
ATOM	6004	C	VAL	X	398	49.798	34.137	49.559	0.00	0.00
ATOM	6005	O	VAL	X	398	49.362	35.307	49.582	0.00	0.00
ATOM	6006	N	GLY	X	399	49.037	33.053	49.309	0.00	0.00
ATOM	6007	H	GLY	X	399	49.487	32.184	49.059	0.00	0.00
ATOM	6008	CA	GLY	X	399	47.612	33.229	48.968	0.00	0.00
ATOM	6009	HA2	GLY	X	399	47.411	34.047	48.277	0.00	0.00
ATOM	6010	HA3	GLY	X	399	47.253	32.319	48.489	0.00	0.00
ATOM	6011	C	GLY	X	399	46.710	33.306	50.198	0.00	0.00
ATOM	6012	O	GLY	X	399	45.569	33.720	50.031	0.00	0.00
ATOM	6013	N	ASP	X	400	47.081	32.751	51.305	0.00	0.00
ATOM	6014	H	ASP	X	400	48.010	32.353	51.305	0.00	0.00
ATOM	6015	CA	ASP	X	400	46.146	32.444	52.467	0.00	0.00
ATOM	6016	HA	ASP	X	400	45.274	31.919	52.076	0.00	0.00
ATOM	6017	CB	ASP	X	400	46.899	31.437	53.378	0.00	0.00
ATOM	6018	HB2	ASP	X	400	47.958	31.696	53.367	0.00	0.00
ATOM	6019	HB3	ASP	X	400	46.595	31.471	54.424	0.00	0.00
ATOM	6020	CG	ASP	X	400	46.633	29.982	52.926	0.00	0.00
ATOM	6021	OD1	ASP	X	400	45.874	29.706	51.948	0.00	0.00
ATOM	6022	OD2	ASP	X	400	47.085	29.051	53.689	0.00	0.00
ATOM	6023	C	ASP	X	400	45.729	33.644	53.228	0.00	0.00
ATOM	6024	O	ASP	X	400	44.605	34.100	53.172	0.00	0.00
ATOM	6025	N	HIE	X	401	46.807	34.257	53.806	0.00	0.00
ATOM	6026	H	HIE	X	401	47.712	33.811	53.834	0.00	0.00
ATOM	6027	CA	HIE	X	401	46.647	35.527	54.517	0.00	0.00
ATOM	6028	HA	HIE	X	401	45.857	35.299	55.233	0.00	0.00
ATOM	6029	CB	HIE	X	401	47.913	35.987	55.270	0.00	0.00
ATOM	6030	HB2	HIE	X	401	47.773	36.729	56.056	0.00	0.00
ATOM	6031	HB3	HIE	X	401	48.409	35.155	55.770	0.00	0.00
ATOM	6032	CG	HIE	X	401	48.930	36.532	54.353	0.00	0.00
ATOM	6033	ND1	HIE	X	401	48.879	37.792	53.775	0.00	0.00
ATOM	6034	CE1	HIE	X	401	50.034	37.805	52.978	0.00	0.00

ATOM	6035	HE1	HIE	X	401	50.197	38.420	52.105	0.00	0.00
ATOM	6036	NE2	HIE	X	401	50.797	36.718	53.235	0.00	0.00
ATOM	6037	HE2	HIE	X	401	51.678	36.453	52.816	0.00	0.00
ATOM	6038	CD2	HIE	X	401	50.078	35.870	54.010	0.00	0.00
ATOM	6039	HD2	HIE	X	401	50.419	34.968	54.496	0.00	0.00
ATOM	6040	C	HIE	X	401	46.092	36.668	53.664	0.00	0.00
ATOM	6041	O	HIE	X	401	45.518	37.575	54.268	0.00	0.00
ATOM	6042	N	ASN	X	402	46.263	36.631	52.275	0.00	0.00
ATOM	6043	H	ASN	X	402	46.989	36.040	51.895	0.00	0.00
ATOM	6044	CA	ASN	X	402	45.761	37.652	51.385	0.00	0.00
ATOM	6045	HA	ASN	X	402	45.659	38.621	51.874	0.00	0.00
ATOM	6046	CB	ASN	X	402	46.601	37.859	50.149	0.00	0.00
ATOM	6047	HB2	ASN	X	402	46.797	36.852	49.780	0.00	0.00
ATOM	6048	HB3	ASN	X	402	46.004	38.419	49.429	0.00	0.00
ATOM	6049	CG	ASN	X	402	47.916	38.670	50.361	0.00	0.00
ATOM	6050	OD1	ASN	X	402	47.921	39.835	50.744	0.00	0.00
ATOM	6051	ND2	ASN	X	402	49.002	38.065	49.978	0.00	0.00
ATOM	6052	HD21	ASN	X	402	49.851	38.541	50.245	0.00	0.00
ATOM	6053	HD22	ASN	X	402	48.977	37.065	49.838	0.00	0.00
ATOM	6054	C	ASN	X	402	44.326	37.235	50.875	0.00	0.00
ATOM	6055	O	ASN	X	402	43.398	38.050	50.851	0.00	0.00
ATOM	6056	N	VAL	X	403	44.104	36.021	50.441	0.00	0.00
ATOM	6057	H	VAL	X	403	44.770	35.276	50.587	0.00	0.00
ATOM	6058	CA	VAL	X	403	42.811	35.593	49.845	0.00	0.00
ATOM	6059	HA	VAL	X	403	42.126	36.439	49.891	0.00	0.00
ATOM	6060	CB	VAL	X	403	42.959	35.129	48.377	0.00	0.00
ATOM	6061	HB	VAL	X	403	43.571	34.229	48.439	0.00	0.00
ATOM	6062	CG1	VAL	X	403	41.579	34.899	47.728	0.00	0.00
ATOM	6063	HG11	VAL	X	403	41.069	34.154	48.339	0.00	0.00
ATOM	6064	HG12	VAL	X	403	40.941	35.782	47.707	0.00	0.00
ATOM	6065	HG13	VAL	X	403	41.680	34.425	46.752	0.00	0.00
ATOM	6066	CG2	VAL	X	403	43.768	36.191	47.552	0.00	0.00
ATOM	6067	HG21	VAL	X	403	43.061	37.017	47.631	0.00	0.00
ATOM	6068	HG22	VAL	X	403	43.910	35.773	46.555	0.00	0.00
ATOM	6069	HG23	VAL	X	403	44.716	36.560	47.943	0.00	0.00
ATOM	6070	C	VAL	X	403	42.079	34.628	50.733	0.00	0.00
ATOM	6071	O	VAL	X	403	40.983	34.948	51.233	0.00	0.00
ATOM	6072	N	VAL	X	404	42.548	33.362	50.855	0.00	0.00
ATOM	6073	H	VAL	X	404	43.442	33.169	50.426	0.00	0.00
ATOM	6074	CA	VAL	X	404	41.665	32.315	51.347	0.00	0.00
ATOM	6075	HA	VAL	X	404	40.730	32.388	50.791	0.00	0.00
ATOM	6076	CB	VAL	X	404	42.156	30.898	51.071	0.00	0.00
ATOM	6077	HB	VAL	X	404	43.016	30.677	51.703	0.00	0.00
ATOM	6078	CG1	VAL	X	404	41.184	29.837	51.522	0.00	0.00
ATOM	6079	HG11	VAL	X	404	40.861	30.044	52.542	0.00	0.00
ATOM	6080	HG12	VAL	X	404	40.319	29.869	50.859	0.00	0.00
ATOM	6081	HG13	VAL	X	404	41.726	28.892	51.477	0.00	0.00
ATOM	6082	CG2	VAL	X	404	42.598	30.653	49.641	0.00	0.00
ATOM	6083	HG21	VAL	X	404	41.719	30.700	48.999	0.00	0.00
ATOM	6084	HG22	VAL	X	404	43.001	29.642	49.574	0.00	0.00
ATOM	6085	HG23	VAL	X	404	43.399	31.344	49.377	0.00	0.00
ATOM	6086	C	VAL	X	404	41.226	32.574	52.780	0.00	0.00
ATOM	6087	O	VAL	X	404	40.068	32.602	53.016	0.00	0.00
ATOM	6088	N	CYX	X	405	42.139	32.994	53.642	0.00	0.00
ATOM	6089	H	CYX	X	405	43.119	33.083	53.415	0.00	0.00
ATOM	6090	CA	CYX	X	405	41.791	33.359	55.056	0.00	0.00
ATOM	6091	HA	CYX	X	405	41.175	32.620	55.568	0.00	0.00
ATOM	6092	CB	CYX	X	405	43.010	33.532	55.913	0.00	0.00
ATOM	6093	HB2	CYX	X	405	43.624	34.320	55.477	0.00	0.00
ATOM	6094	HB3	CYX	X	405	42.678	33.830	56.907	0.00	0.00
ATOM	6095	SG	CYX	X	405	43.952	31.948	56.032	0.00	0.00
ATOM	6096	C	CYX	X	405	40.756	34.488	55.080	0.00	0.00
ATOM	6097	O	CYX	X	405	39.751	34.337	55.725	0.00	0.00
ATOM	6098	N	PRO	X	406	40.971	35.642	54.500	0.00	0.00
ATOM	6099	CD	PRO	X	406	42.282	36.170	54.099	0.00	0.00
ATOM	6100	HD2	PRO	X	406	42.617	35.736	53.157	0.00	0.00
ATOM	6101	HD3	PRO	X	406	43.065	35.962	54.829	0.00	0.00

ATOM	6102	CG	PRO	X	406	42.094	37.668	53.973	0.00	0.00
ATOM	6103	HG2	PRO	X	406	42.825	38.077	53.275	0.00	0.00
ATOM	6104	HG3	PRO	X	406	42.288	38.118	54.946	0.00	0.00
ATOM	6105	CB	PRO	X	406	40.628	37.785	53.453	0.00	0.00
ATOM	6106	HB2	PRO	X	406	40.608	37.616	52.376	0.00	0.00
ATOM	6107	HB3	PRO	X	406	40.215	38.769	53.677	0.00	0.00
ATOM	6108	CA	PRO	X	406	39.964	36.724	54.303	0.00	0.00
ATOM	6109	HA	PRO	X	406	39.849	37.014	55.347	0.00	0.00
ATOM	6110	C	PRO	X	406	38.666	36.266	53.748	0.00	0.00
ATOM	6111	O	PRO	X	406	37.632	36.705	54.313	0.00	0.00
ATOM	6112	N	VAL	X	407	38.622	35.519	52.639	0.00	0.00
ATOM	6113	H	VAL	X	407	39.438	35.211	52.130	0.00	0.00
ATOM	6114	CA	VAL	X	407	37.401	35.149	51.971	0.00	0.00
ATOM	6115	HA	VAL	X	407	36.801	36.058	51.949	0.00	0.00
ATOM	6116	CB	VAL	X	407	37.662	34.703	50.462	0.00	0.00
ATOM	6117	HB	VAL	X	407	38.509	35.302	50.127	0.00	0.00
ATOM	6118	CG1	VAL	X	407	37.950	33.223	50.482	0.00	0.00
ATOM	6119	HG11	VAL	X	407	38.932	33.196	50.955	0.00	0.00
ATOM	6120	HG12	VAL	X	407	37.237	32.629	51.053	0.00	0.00
ATOM	6121	HG13	VAL	X	407	37.988	32.767	49.492	0.00	0.00
ATOM	6122	CG2	VAL	X	407	36.437	35.057	49.557	0.00	0.00
ATOM	6123	HG21	VAL	X	407	36.419	36.146	49.508	0.00	0.00
ATOM	6124	HG22	VAL	X	407	35.465	34.658	49.847	0.00	0.00
ATOM	6125	HG23	VAL	X	407	36.527	34.745	48.517	0.00	0.00
ATOM	6126	C	VAL	X	407	36.526	34.220	52.803	0.00	0.00
ATOM	6127	O	VAL	X	407	35.307	34.152	52.662	0.00	0.00
ATOM	6128	N	ALA	X	408	37.197	33.477	53.725	0.00	0.00
ATOM	6129	H	ALA	X	408	38.194	33.630	53.777	0.00	0.00
ATOM	6130	CA	ALA	X	408	36.660	32.504	54.681	0.00	0.00
ATOM	6131	HA	ALA	X	408	35.685	32.274	54.252	0.00	0.00
ATOM	6132	CB	ALA	X	408	37.644	31.320	54.708	0.00	0.00
ATOM	6133	HB1	ALA	X	408	37.985	31.076	53.702	0.00	0.00
ATOM	6134	HB2	ALA	X	408	37.082	30.491	55.140	0.00	0.00
ATOM	6135	HB3	ALA	X	408	38.472	31.486	55.397	0.00	0.00
ATOM	6136	C	ALA	X	408	36.315	33.012	56.113	0.00	0.00
ATOM	6137	O	ALA	X	408	35.356	32.557	56.734	0.00	0.00
ATOM	6138	N	GLN	X	409	37.043	33.965	56.601	0.00	0.00
ATOM	6139	H	GLN	X	409	37.812	34.216	55.996	0.00	0.00
ATOM	6140	CA	GLN	X	409	36.681	34.875	57.685	0.00	0.00
ATOM	6141	HA	GLN	X	409	36.423	34.330	58.593	0.00	0.00
ATOM	6142	CB	GLN	X	409	37.873	35.812	57.957	0.00	0.00
ATOM	6143	HB2	GLN	X	409	38.734	35.225	58.277	0.00	0.00
ATOM	6144	HB3	GLN	X	409	38.257	36.215	57.020	0.00	0.00
ATOM	6145	CG	GLN	X	409	37.607	36.914	58.953	0.00	0.00
ATOM	6146	HG2	GLN	X	409	38.479	37.565	59.012	0.00	0.00
ATOM	6147	HG3	GLN	X	409	36.835	37.559	58.535	0.00	0.00
ATOM	6148	CD	GLN	X	409	37.378	36.424	60.390	0.00	0.00
ATOM	6149	OE1	GLN	X	409	36.891	35.310	60.581	0.00	0.00
ATOM	6150	NE2	GLN	X	409	37.788	37.150	61.421	0.00	0.00
ATOM	6151	HE21	GLN	X	409	37.773	36.642	62.294	0.00	0.00
ATOM	6152	HE22	GLN	X	409	38.222	38.046	61.249	0.00	0.00
ATOM	6153	C	GLN	X	409	35.360	35.496	57.288	0.00	0.00
ATOM	6154	O	GLN	X	409	34.409	35.327	58.071	0.00	0.00
ATOM	6155	N	LEU	X	410	35.246	36.097	56.120	0.00	0.00
ATOM	6156	H	LEU	X	410	36.112	36.120	55.600	0.00	0.00
ATOM	6157	CA	LEU	X	410	34.046	36.616	55.407	0.00	0.00
ATOM	6158	HA	LEU	X	410	33.724	37.539	55.889	0.00	0.00
ATOM	6159	CB	LEU	X	410	34.509	37.038	54.055	0.00	0.00
ATOM	6160	HB2	LEU	X	410	35.124	37.913	54.265	0.00	0.00
ATOM	6161	HB3	LEU	X	410	35.200	36.325	53.604	0.00	0.00
ATOM	6162	CG	LEU	X	410	33.467	37.336	52.976	0.00	0.00
ATOM	6163	HG	LEU	X	410	32.853	36.452	52.806	0.00	0.00
ATOM	6164	CD1	LEU	X	410	32.668	38.478	53.395	0.00	0.00
ATOM	6165	HD11	LEU	X	410	32.150	38.335	54.343	0.00	0.00
ATOM	6166	HD12	LEU	X	410	31.802	38.652	52.755	0.00	0.00
ATOM	6167	HD13	LEU	X	410	33.231	39.410	53.455	0.00	0.00
ATOM	6168	CD2	LEU	X	410	34.302	37.690	51.712	0.00	0.00

ATOM	6169	HD21	LEU	X	410	33.803	38.227	50.905	0.00	0.00
ATOM	6170	HD22	LEU	X	410	35.056	38.407	52.036	0.00	0.00
ATOM	6171	HD23	LEU	X	410	34.849	36.804	51.389	0.00	0.00
ATOM	6172	C	LEU	X	410	32.868	35.565	55.324	0.00	0.00
ATOM	6173	O	LEU	X	410	31.753	35.889	55.743	0.00	0.00
ATOM	6174	N	ALA	X	411	33.130	34.349	54.810	0.00	0.00
ATOM	6175	H	ALA	X	411	34.050	34.282	54.400	0.00	0.00
ATOM	6176	CA	ALA	X	411	32.145	33.270	54.625	0.00	0.00
ATOM	6177	HA	ALA	X	411	31.326	33.559	53.967	0.00	0.00
ATOM	6178	CB	ALA	X	411	32.861	32.000	54.163	0.00	0.00
ATOM	6179	HB1	ALA	X	411	32.257	31.158	53.825	0.00	0.00
ATOM	6180	HB2	ALA	X	411	33.582	31.707	54.926	0.00	0.00
ATOM	6181	HB3	ALA	X	411	33.469	32.318	53.316	0.00	0.00
ATOM	6182	C	ALA	X	411	31.369	32.921	55.960	0.00	0.00
ATOM	6183	O	ALA	X	411	30.103	32.858	55.944	0.00	0.00
ATOM	6184	N	GLY	X	412	32.078	32.956	57.117	0.00	0.00
ATOM	6185	H	GLY	X	412	33.033	33.275	57.186	0.00	0.00
ATOM	6186	CA	GLY	X	412	31.560	32.615	58.415	0.00	0.00
ATOM	6187	HA2	GLY	X	412	31.053	31.650	58.427	0.00	0.00
ATOM	6188	HA3	GLY	X	412	32.350	32.551	59.164	0.00	0.00
ATOM	6189	C	GLY	X	412	30.753	33.738	58.960	0.00	0.00
ATOM	6190	O	GLY	X	412	29.587	33.495	59.303	0.00	0.00
ATOM	6191	N	ARG	X	413	31.336	34.907	58.862	0.00	0.00
ATOM	6192	H	ARG	X	413	32.196	34.957	58.335	0.00	0.00
ATOM	6193	CA	ARG	X	413	30.678	36.094	59.207	0.00	0.00
ATOM	6194	HA	ARG	X	413	30.529	36.077	60.287	0.00	0.00
ATOM	6195	CB	ARG	X	413	31.483	37.332	58.816	0.00	0.00
ATOM	6196	HB2	ARG	X	413	31.809	37.336	57.776	0.00	0.00
ATOM	6197	HB3	ARG	X	413	30.792	38.169	58.912	0.00	0.00
ATOM	6198	CG	ARG	X	413	32.633	37.705	59.740	0.00	0.00
ATOM	6199	HG2	ARG	X	413	33.429	36.995	59.517	0.00	0.00
ATOM	6200	HG3	ARG	X	413	32.888	38.739	59.507	0.00	0.00
ATOM	6201	CD	ARG	X	413	32.347	37.504	61.271	0.00	0.00
ATOM	6202	HD2	ARG	X	413	31.361	37.940	61.429	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.202	36.448	61.499	0.00	0.00
ATOM	6204	NE	ARG	X	413	33.552	37.803	62.046	0.00	0.00
ATOM	6205	HE	ARG	X	413	34.296	38.284	61.560	0.00	0.00
ATOM	6206	CZ	ARG	X	413	33.563	37.714	63.364	0.00	0.00
ATOM	6207	NH1	ARG	X	413	32.466	37.491	64.058	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.543	37.616	63.667	0.00	0.00
ATOM	6209	HH12	ARG	X	413	32.606	37.372	65.052	0.00	0.00
ATOM	6210	NH2	ARG	X	413	34.633	37.932	64.024	0.00	0.00
ATOM	6211	HH21	ARG	X	413	35.517	38.106	63.567	0.00	0.00
ATOM	6212	HH22	ARG	X	413	34.593	37.904	65.033	0.00	0.00
ATOM	6213	C	ARG	X	413	29.348	36.167	58.559	0.00	0.00
ATOM	6214	O	ARG	X	413	28.327	36.414	59.192	0.00	0.00
ATOM	6215	N	LEU	X	414	29.275	36.021	57.168	0.00	0.00
ATOM	6216	H	LEU	X	414	30.165	35.890	56.708	0.00	0.00
ATOM	6217	CA	LEU	X	414	28.144	36.086	56.325	0.00	0.00
ATOM	6218	HA	LEU	X	414	27.607	37.031	56.415	0.00	0.00
ATOM	6219	CB	LEU	X	414	28.612	35.884	54.832	0.00	0.00
ATOM	6220	HB2	LEU	X	414	29.268	35.017	54.759	0.00	0.00
ATOM	6221	HB3	LEU	X	414	27.715	35.752	54.228	0.00	0.00
ATOM	6222	CG	LEU	X	414	29.349	36.956	54.064	0.00	0.00
ATOM	6223	HG	LEU	X	414	30.280	37.248	54.550	0.00	0.00
ATOM	6224	CD1	LEU	X	414	29.607	36.486	52.676	0.00	0.00
ATOM	6225	HD11	LEU	X	414	30.294	37.189	52.204	0.00	0.00
ATOM	6226	HD12	LEU	X	414	28.693	36.412	52.087	0.00	0.00
ATOM	6227	HD13	LEU	X	414	30.139	35.537	52.740	0.00	0.00
ATOM	6228	CD2	LEU	X	414	28.547	38.253	54.103	0.00	0.00
ATOM	6229	HD21	LEU	X	414	28.376	38.720	55.073	0.00	0.00
ATOM	6230	HD22	LEU	X	414	28.929	38.982	53.388	0.00	0.00
ATOM	6231	HD23	LEU	X	414	27.516	38.075	53.797	0.00	0.00
ATOM	6232	C	LEU	X	414	27.076	35.146	56.788	0.00	0.00
ATOM	6233	O	LEU	X	414	25.961	35.599	56.970	0.00	0.00
ATOM	6234	N	ALA	X	415	27.402	33.856	56.925	0.00	0.00
ATOM	6235	H	ALA	X	415	28.297	33.473	56.655	0.00	0.00

ATOM	6236	CA	ALA	X	415	26.401	32.882	57.230	0.00	0.00
ATOM	6237	HA	ALA	X	415	25.574	32.930	56.521	0.00	0.00
ATOM	6238	CB	ALA	X	415	27.052	31.478	57.103	0.00	0.00
ATOM	6239	HB1	ALA	X	415	27.387	31.279	56.085	0.00	0.00
ATOM	6240	HB2	ALA	X	415	26.201	30.809	57.234	0.00	0.00
ATOM	6241	HB3	ALA	X	415	27.950	31.311	57.698	0.00	0.00
ATOM	6242	C	ALA	X	415	25.869	33.056	58.680	0.00	0.00
ATOM	6243	O	ALA	X	415	24.651	33.083	58.887	0.00	0.00
ATOM	6244	N	ALA	X	416	26.659	33.340	59.676	0.00	0.00
ATOM	6245	H	ALA	X	416	27.622	33.113	59.474	0.00	0.00
ATOM	6246	CA	ALA	X	416	26.314	33.383	61.083	0.00	0.00
ATOM	6247	HA	ALA	X	416	25.571	32.650	61.398	0.00	0.00
ATOM	6248	CB	ALA	X	416	27.629	33.208	61.956	0.00	0.00
ATOM	6249	HB1	ALA	X	416	28.059	32.236	61.713	0.00	0.00
ATOM	6250	HB2	ALA	X	416	27.527	33.357	63.031	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.333	34.016	61.755	0.00	0.00
ATOM	6252	C	ALA	X	416	25.529	34.625	61.447	0.00	0.00
ATOM	6253	O	ALA	X	416	24.949	34.636	62.537	0.00	0.00
ATOM	6254	N	GLN	X	417	25.295	35.604	60.532	0.00	0.00
ATOM	6255	H	GLN	X	417	25.648	35.405	59.606	0.00	0.00
ATOM	6256	CA	GLN	X	417	24.654	36.829	60.721	0.00	0.00
ATOM	6257	HA	GLN	X	417	24.072	36.708	61.634	0.00	0.00
ATOM	6258	CB	GLN	X	417	25.782	37.914	60.782	0.00	0.00
ATOM	6259	HB2	GLN	X	417	26.366	37.875	59.863	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.317	38.900	60.781	0.00	0.00
ATOM	6261	CG	GLN	X	417	26.722	37.844	62.035	0.00	0.00
ATOM	6262	HG2	GLN	X	417	26.220	37.839	63.003	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.285	36.913	61.970	0.00	0.00
ATOM	6264	CD	GLN	X	417	27.750	38.976	62.084	0.00	0.00
ATOM	6265	OE1	GLN	X	417	27.980	39.666	63.074	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.518	39.222	61.024	0.00	0.00
ATOM	6267	HE21	GLN	X	417	29.252	39.908	61.130	0.00	0.00
ATOM	6268	HE22	GLN	X	417	28.270	38.851	60.119	0.00	0.00
ATOM	6269	C	GLN	X	417	23.543	37.179	59.650	0.00	0.00
ATOM	6270	O	GLN	X	417	22.938	38.254	59.675	0.00	0.00
ATOM	6271	N	GLY	X	418	23.349	36.321	58.690	0.00	0.00
ATOM	6272	H	GLY	X	418	23.918	35.490	58.755	0.00	0.00
ATOM	6273	CA	GLY	X	418	22.053	36.271	58.017	0.00	0.00
ATOM	6274	HA2	GLY	X	418	21.329	35.612	58.495	0.00	0.00
ATOM	6275	HA3	GLY	X	418	21.548	37.231	58.122	0.00	0.00
ATOM	6276	C	GLY	X	418	22.084	35.908	56.541	0.00	0.00
ATOM	6277	O	GLY	X	418	21.025	35.651	55.992	0.00	0.00
ATOM	6278	N	ALA	X	419	23.260	35.720	55.929	0.00	0.00
ATOM	6279	H	ALA	X	419	24.078	35.972	56.464	0.00	0.00
ATOM	6280	CA	ALA	X	419	23.430	35.448	54.482	0.00	0.00
ATOM	6281	HA	ALA	X	419	22.711	35.982	53.861	0.00	0.00
ATOM	6282	CB	ALA	X	419	24.820	35.926	53.999	0.00	0.00
ATOM	6283	HB1	ALA	X	419	25.546	35.324	54.545	0.00	0.00
ATOM	6284	HB2	ALA	X	419	24.970	36.994	54.156	0.00	0.00
ATOM	6285	HB3	ALA	X	419	24.889	35.713	52.933	0.00	0.00
ATOM	6286	C	ALA	X	419	23.199	33.878	54.250	0.00	0.00
ATOM	6287	O	ALA	X	419	23.628	33.026	55.058	0.00	0.00
ATOM	6288	N	ARG	X	420	22.710	33.559	53.020	0.00	0.00
ATOM	6289	H	ARG	X	420	22.353	34.223	52.348	0.00	0.00
ATOM	6290	CA	ARG	X	420	22.917	32.207	52.446	0.00	0.00
ATOM	6291	HA	ARG	X	420	22.945	31.479	53.257	0.00	0.00
ATOM	6292	CB	ARG	X	420	21.742	31.873	51.592	0.00	0.00
ATOM	6293	HB2	ARG	X	420	20.833	32.111	52.146	0.00	0.00
ATOM	6294	HB3	ARG	X	420	21.706	32.423	50.652	0.00	0.00
ATOM	6295	CG	ARG	X	420	21.713	30.358	51.203	0.00	0.00
ATOM	6296	HG2	ARG	X	420	20.917	30.294	50.461	0.00	0.00
ATOM	6297	HG3	ARG	X	420	22.605	30.128	50.620	0.00	0.00
ATOM	6298	CD	ARG	X	420	21.487	29.424	52.405	0.00	0.00
ATOM	6299	HD2	ARG	X	420	22.322	29.126	53.039	0.00	0.00
ATOM	6300	HD3	ARG	X	420	20.806	29.983	53.048	0.00	0.00
ATOM	6301	NE	ARG	X	420	20.878	28.161	51.947	0.00	0.00
ATOM	6302	HE	ARG	X	420	20.791	28.018	50.951	0.00	0.00

ATOM	6303	CZ	ARG	X	420	20.538	27.242	52.810	0.00	0.00
ATOM	6304	NH1	ARG	X	420	20.484	27.373	54.150	0.00	0.00
ATOM	6305	HH11	ARG	X	420	20.895	28.162	54.628	0.00	0.00
ATOM	6306	HH12	ARG	X	420	20.123	26.596	54.684	0.00	0.00
ATOM	6307	NH2	ARG	X	420	20.060	26.155	52.310	0.00	0.00
ATOM	6308	HH21	ARG	X	420	20.128	26.041	51.308	0.00	0.00
ATOM	6309	HH22	ARG	X	420	19.868	25.387	52.937	0.00	0.00
ATOM	6310	C	ARG	X	420	24.230	32.108	51.681	0.00	0.00
ATOM	6311	O	ARG	X	420	24.323	32.668	50.573	0.00	0.00
ATOM	6312	N	VAL	X	421	25.334	31.492	52.121	0.00	0.00
ATOM	6313	H	VAL	X	421	25.128	30.922	52.928	0.00	0.00
ATOM	6314	CA	VAL	X	421	26.745	31.437	51.573	0.00	0.00
ATOM	6315	HA	VAL	X	421	26.798	32.377	51.024	0.00	0.00
ATOM	6316	CB	VAL	X	421	27.695	31.604	52.771	0.00	0.00
ATOM	6317	HB	VAL	X	421	27.566	30.770	53.461	0.00	0.00
ATOM	6318	CG1	VAL	X	421	29.193	31.686	52.296	0.00	0.00
ATOM	6319	HG11	VAL	X	421	29.340	32.573	51.680	0.00	0.00
ATOM	6320	HG12	VAL	X	421	29.891	31.818	53.123	0.00	0.00
ATOM	6321	HG13	VAL	X	421	29.549	30.764	51.836	0.00	0.00
ATOM	6322	CG2	VAL	X	421	27.360	32.896	53.680	0.00	0.00
ATOM	6323	HG21	VAL	X	421	26.511	32.671	54.325	0.00	0.00
ATOM	6324	HG22	VAL	X	421	27.079	33.729	53.035	0.00	0.00
ATOM	6325	HG23	VAL	X	421	28.174	33.139	54.363	0.00	0.00
ATOM	6326	C	VAL	X	421	26.952	30.114	50.749	0.00	0.00
ATOM	6327	O	VAL	X	421	26.598	29.083	51.260	0.00	0.00
ATOM	6328	N	TYR	X	422	27.604	30.205	49.564	0.00	0.00
ATOM	6329	H	TYR	X	422	27.996	31.112	49.353	0.00	0.00
ATOM	6330	CA	TYR	X	422	28.070	29.087	48.721	0.00	0.00
ATOM	6331	HA	TYR	X	422	27.926	28.180	49.308	0.00	0.00
ATOM	6332	CB	TYR	X	422	27.163	29.029	47.494	0.00	0.00
ATOM	6333	HB2	TYR	X	422	27.204	29.969	46.945	0.00	0.00
ATOM	6334	HB3	TYR	X	422	27.417	28.191	46.846	0.00	0.00
ATOM	6335	CG	TYR	X	422	25.633	28.903	47.881	0.00	0.00
ATOM	6336	CD1	TYR	X	422	25.134	27.583	48.083	0.00	0.00
ATOM	6337	HD1	TYR	X	422	25.901	26.830	48.193	0.00	0.00
ATOM	6338	CE1	TYR	X	422	23.806	27.332	48.349	0.00	0.00
ATOM	6339	HE1	TYR	X	422	23.467	26.308	48.389	0.00	0.00
ATOM	6340	CZ	TYR	X	422	22.913	28.416	48.320	0.00	0.00
ATOM	6341	OH	TYR	X	422	21.601	28.189	48.546	0.00	0.00
ATOM	6342	HH	TYR	X	422	21.471	27.278	48.820	0.00	0.00
ATOM	6343	CE2	TYR	X	422	23.394	29.768	48.072	0.00	0.00
ATOM	6344	HE2	TYR	X	422	22.646	30.536	48.198	0.00	0.00
ATOM	6345	CD2	TYR	X	422	24.748	30.000	47.848	0.00	0.00
ATOM	6346	HD2	TYR	X	422	25.079	30.983	47.546	0.00	0.00
ATOM	6347	C	TYR	X	422	29.548	29.246	48.290	0.00	0.00
ATOM	6348	O	TYR	X	422	30.063	30.271	47.769	0.00	0.00
ATOM	6349	N	ALA	X	423	30.259	28.149	48.591	0.00	0.00
ATOM	6350	H	ALA	X	423	29.960	27.400	49.199	0.00	0.00
ATOM	6351	CA	ALA	X	423	31.723	28.127	48.545	0.00	0.00
ATOM	6352	HA	ALA	X	423	32.123	29.108	48.289	0.00	0.00
ATOM	6353	CB	ALA	X	423	32.132	27.900	50.038	0.00	0.00
ATOM	6354	HB1	ALA	X	423	31.653	28.629	50.692	0.00	0.00
ATOM	6355	HB2	ALA	X	423	33.220	27.943	50.090	0.00	0.00
ATOM	6356	HB3	ALA	X	423	31.645	27.020	50.457	0.00	0.00
ATOM	6357	C	ALA	X	423	32.387	27.103	47.619	0.00	0.00
ATOM	6358	O	ALA	X	423	31.891	25.947	47.553	0.00	0.00
ATOM	6359	N	TYR	X	424	33.450	27.433	46.926	0.00	0.00
ATOM	6360	H	TYR	X	424	33.852	28.352	47.044	0.00	0.00
ATOM	6361	CA	TYR	X	424	34.306	26.498	46.174	0.00	0.00
ATOM	6362	HA	TYR	X	424	34.194	25.556	46.711	0.00	0.00
ATOM	6363	CB	TYR	X	424	33.920	26.475	44.663	0.00	0.00
ATOM	6364	HB2	TYR	X	424	34.186	25.494	44.268	0.00	0.00
ATOM	6365	HB3	TYR	X	424	32.830	26.484	44.661	0.00	0.00
ATOM	6366	CG	TYR	X	424	34.356	27.701	43.821	0.00	0.00
ATOM	6367	CD1	TYR	X	424	35.575	27.679	43.048	0.00	0.00
ATOM	6368	HD1	TYR	X	424	36.173	26.786	42.941	0.00	0.00
ATOM	6369	CE1	TYR	X	424	35.880	28.856	42.396	0.00	0.00

ATOM	6370	HE1	TYR	X	424	36.815	28.904	41.858	0.00	0.00
ATOM	6371	CZ	TYR	X	424	35.179	30.035	42.558	0.00	0.00
ATOM	6372	OH	TYR	X	424	35.620	31.201	42.017	0.00	0.00
ATOM	6373	HH	TYR	X	424	36.464	31.106	41.568	0.00	0.00
ATOM	6374	CE2	TYR	X	424	33.958	30.052	43.264	0.00	0.00
ATOM	6375	HE2	TYR	X	424	33.353	30.943	43.179	0.00	0.00
ATOM	6376	CD2	TYR	X	424	33.529	28.862	43.867	0.00	0.00
ATOM	6377	HD2	TYR	X	424	32.597	28.834	44.412	0.00	0.00
ATOM	6378	C	TYR	X	424	35.842	26.730	46.287	0.00	0.00
ATOM	6379	O	TYR	X	424	36.261	27.859	46.651	0.00	0.00
ATOM	6380	N	VAL	X	425	36.566	25.699	45.838	0.00	0.00
ATOM	6381	H	VAL	X	425	36.013	24.865	45.705	0.00	0.00
ATOM	6382	CA	VAL	X	425	37.963	25.796	45.399	0.00	0.00
ATOM	6383	HA	VAL	X	425	38.112	26.863	45.236	0.00	0.00
ATOM	6384	CB	VAL	X	425	38.971	25.256	46.508	0.00	0.00
ATOM	6385	HB	VAL	X	425	38.830	24.178	46.588	0.00	0.00
ATOM	6386	CG1	VAL	X	425	40.353	25.607	46.037	0.00	0.00
ATOM	6387	HG11	VAL	X	425	40.562	26.676	46.092	0.00	0.00
ATOM	6388	HG12	VAL	X	425	41.015	25.135	46.763	0.00	0.00
ATOM	6389	HG13	VAL	X	425	40.592	25.226	45.044	0.00	0.00
ATOM	6390	CG2	VAL	X	425	38.737	25.917	47.894	0.00	0.00
ATOM	6391	HG21	VAL	X	425	37.712	25.742	48.222	0.00	0.00
ATOM	6392	HG22	VAL	X	425	38.734	27.003	47.801	0.00	0.00
ATOM	6393	HG23	VAL	X	425	39.517	25.579	48.576	0.00	0.00
ATOM	6394	C	VAL	X	425	38.149	24.949	44.102	0.00	0.00
ATOM	6395	O	VAL	X	425	37.710	23.846	44.022	0.00	0.00
ATOM	6396	N	PHE	X	426	38.646	25.591	43.070	0.00	0.00
ATOM	6397	H	PHE	X	426	38.831	26.573	43.216	0.00	0.00
ATOM	6398	CA	PHE	X	426	38.805	24.923	41.765	0.00	0.00
ATOM	6399	HA	PHE	X	426	37.877	24.442	41.454	0.00	0.00
ATOM	6400	CB	PHE	X	426	39.093	25.966	40.681	0.00	0.00
ATOM	6401	HB2	PHE	X	426	38.641	26.937	40.884	0.00	0.00
ATOM	6402	HB3	PHE	X	426	40.142	26.259	40.719	0.00	0.00
ATOM	6403	CG	PHE	X	426	38.734	25.627	39.278	0.00	0.00
ATOM	6404	CD1	PHE	X	426	37.378	25.748	39.023	0.00	0.00
ATOM	6405	HD1	PHE	X	426	36.712	25.937	39.853	0.00	0.00
ATOM	6406	CE1	PHE	X	426	36.900	25.665	37.746	0.00	0.00
ATOM	6407	HE1	PHE	X	426	35.847	25.785	37.541	0.00	0.00
ATOM	6408	CZ	PHE	X	426	37.842	25.603	36.636	0.00	0.00
ATOM	6409	HZ	PHE	X	426	37.516	25.650	35.607	0.00	0.00
ATOM	6410	CE2	PHE	X	426	39.181	25.502	36.850	0.00	0.00
ATOM	6411	HE2	PHE	X	426	39.908	25.648	36.064	0.00	0.00
ATOM	6412	CD2	PHE	X	426	39.612	25.500	38.219	0.00	0.00
ATOM	6413	HD2	PHE	X	426	40.674	25.551	38.409	0.00	0.00
ATOM	6414	C	PHE	X	426	39.876	23.809	41.709	0.00	0.00
ATOM	6415	O	PHE	X	426	40.768	23.863	42.525	0.00	0.00
ATOM	6416	N	GLU	X	427	39.895	23.028	40.687	0.00	0.00
ATOM	6417	H	GLU	X	427	39.147	23.132	40.017	0.00	0.00
ATOM	6418	CA	GLU	X	427	40.680	21.814	40.682	0.00	0.00
ATOM	6419	HA	GLU	X	427	41.525	22.091	41.313	0.00	0.00
ATOM	6420	CB	GLU	X	427	39.949	20.829	41.625	0.00	0.00
ATOM	6421	HB2	GLU	X	427	39.684	21.373	42.531	0.00	0.00
ATOM	6422	HB3	GLU	X	427	38.964	20.511	41.284	0.00	0.00
ATOM	6423	CG	GLU	X	427	40.891	19.671	42.045	0.00	0.00
ATOM	6424	HG2	GLU	X	427	40.649	18.867	41.350	0.00	0.00
ATOM	6425	HG3	GLU	X	427	41.952	19.919	42.007	0.00	0.00
ATOM	6426	CD	GLU	X	427	40.579	19.216	43.424	0.00	0.00
ATOM	6427	OE1	GLU	X	427	41.291	19.643	44.344	0.00	0.00
ATOM	6428	OE2	GLU	X	427	39.779	18.240	43.621	0.00	0.00
ATOM	6429	C	GLU	X	427	41.088	21.358	39.348	0.00	0.00
ATOM	6430	O	GLU	X	427	42.246	21.015	39.217	0.00	0.00
ATOM	6431	N	HIE	X	428	40.236	21.430	38.351	0.00	0.00
ATOM	6432	H	HIE	X	428	39.299	21.640	38.665	0.00	0.00
ATOM	6433	CA	HIE	X	428	40.656	21.150	36.967	0.00	0.00
ATOM	6434	HA	HIE	X	428	41.156	20.192	36.822	0.00	0.00
ATOM	6435	CB	HIE	X	428	39.424	21.236	36.048	0.00	0.00
ATOM	6436	HB2	HIE	X	428	38.701	20.556	36.498	0.00	0.00

ATOM	6437	HB3	HIE	X	428	39.035	22.245	35.913	0.00	0.00
ATOM	6438	CG	HIE	X	428	39.735	20.860	34.603	0.00	0.00
ATOM	6439	ND1	HIE	X	428	40.373	19.664	34.239	0.00	0.00
ATOM	6440	CE1	HIE	X	428	40.676	19.845	32.949	0.00	0.00
ATOM	6441	HE1	HIE	X	428	41.336	19.218	32.367	0.00	0.00
ATOM	6442	NE2	HIE	X	428	40.468	21.116	32.566	0.00	0.00
ATOM	6443	HE2	HIE	X	428	40.792	21.461	31.675	0.00	0.00
ATOM	6444	CD2	HIE	X	428	39.920	21.777	33.604	0.00	0.00
ATOM	6445	HD2	HIE	X	428	39.660	22.825	33.616	0.00	0.00
ATOM	6446	C	HIE	X	428	41.825	22.119	36.512	0.00	0.00
ATOM	6447	O	HIE	X	428	41.726	23.296	36.710	0.00	0.00
ATOM	6448	N	ARG	X	429	42.856	21.651	35.754	0.00	0.00
ATOM	6449	H	ARG	X	429	42.805	20.696	35.428	0.00	0.00
ATOM	6450	CA	ARG	X	429	43.768	22.507	35.014	0.00	0.00
ATOM	6451	HA	ARG	X	429	43.731	23.533	35.380	0.00	0.00
ATOM	6452	CB	ARG	X	429	45.210	22.129	35.388	0.00	0.00
ATOM	6453	HB2	ARG	X	429	45.411	22.386	36.428	0.00	0.00
ATOM	6454	HB3	ARG	X	429	45.378	21.082	35.135	0.00	0.00
ATOM	6455	CG	ARG	X	429	46.266	22.873	34.538	0.00	0.00
ATOM	6456	HG2	ARG	X	429	46.294	22.350	33.583	0.00	0.00
ATOM	6457	HG3	ARG	X	429	45.964	23.916	34.440	0.00	0.00
ATOM	6458	CD	ARG	X	429	47.642	22.808	35.182	0.00	0.00
ATOM	6459	HD2	ARG	X	429	47.522	23.042	36.239	0.00	0.00
ATOM	6460	HD3	ARG	X	429	48.027	21.791	35.106	0.00	0.00
ATOM	6461	NE	ARG	X	429	48.522	23.856	34.724	0.00	0.00
ATOM	6462	HE	ARG	X	429	48.571	24.649	35.348	0.00	0.00
ATOM	6463	CZ	ARG	X	429	49.092	23.876	33.572	0.00	0.00
ATOM	6464	NH1	ARG	X	429	48.929	22.886	32.748	0.00	0.00
ATOM	6465	HH11	ARG	X	429	48.484	22.019	33.013	0.00	0.00
ATOM	6466	HH12	ARG	X	429	49.166	22.956	31.769	0.00	0.00
ATOM	6467	NH2	ARG	X	429	49.690	24.929	33.189	0.00	0.00
ATOM	6468	HH21	ARG	X	429	49.781	25.749	33.770	0.00	0.00
ATOM	6469	HH22	ARG	X	429	50.173	25.028	32.307	0.00	0.00
ATOM	6470	C	ARG	X	429	43.556	22.406	33.491	0.00	0.00
ATOM	6471	O	ARG	X	429	43.541	21.267	33.034	0.00	0.00
ATOM	6472	N	ALA	X	430	43.340	23.549	32.852	0.00	0.00
ATOM	6473	H	ALA	X	430	43.228	24.426	33.341	0.00	0.00
ATOM	6474	CA	ALA	X	430	43.016	23.558	31.431	0.00	0.00
ATOM	6475	HA	ALA	X	430	42.155	22.896	31.344	0.00	0.00
ATOM	6476	CB	ALA	X	430	42.467	24.969	31.065	0.00	0.00
ATOM	6477	HB1	ALA	X	430	41.532	25.119	31.604	0.00	0.00
ATOM	6478	HB2	ALA	X	430	42.102	24.943	30.038	0.00	0.00
ATOM	6479	HB3	ALA	X	430	43.168	25.770	31.297	0.00	0.00
ATOM	6480	C	ALA	X	430	44.112	23.111	30.444	0.00	0.00
ATOM	6481	O	ALA	X	430	45.346	23.205	30.719	0.00	0.00
ATOM	6482	N	SER	X	431	43.684	22.521	29.335	0.00	0.00
ATOM	6483	H	SER	X	431	42.722	22.214	29.348	0.00	0.00
ATOM	6484	CA	SER	X	431	44.494	22.206	28.162	0.00	0.00
ATOM	6485	HA	SER	X	431	45.420	21.722	28.476	0.00	0.00
ATOM	6486	CB	SER	X	431	43.762	21.334	27.140	0.00	0.00
ATOM	6487	HB2	SER	X	431	44.459	21.014	26.366	0.00	0.00
ATOM	6488	HB3	SER	X	431	43.291	20.495	27.652	0.00	0.00
ATOM	6489	OG	SER	X	431	42.678	22.009	26.528	0.00	0.00
ATOM	6490	HG	SER	X	431	41.838	21.863	26.968	0.00	0.00
ATOM	6491	C	SER	X	431	45.112	23.357	27.368	0.00	0.00
ATOM	6492	O	SER	X	431	45.836	23.170	26.401	0.00	0.00
ATOM	6493	N	THR	X	432	44.909	24.628	27.726	0.00	0.00
ATOM	6494	H	THR	X	432	44.251	24.807	28.471	0.00	0.00
ATOM	6495	CA	THR	X	432	45.780	25.772	27.357	0.00	0.00
ATOM	6496	HA	THR	X	432	46.771	25.347	27.198	0.00	0.00
ATOM	6497	CB	THR	X	432	45.276	26.446	26.071	0.00	0.00
ATOM	6498	HB	THR	X	432	44.263	26.829	26.198	0.00	0.00
ATOM	6499	CG2	THR	X	432	46.173	27.615	25.521	0.00	0.00
ATOM	6500	HG21	THR	X	432	46.108	28.545	26.087	0.00	0.00
ATOM	6501	HG22	THR	X	432	45.743	27.971	24.585	0.00	0.00
ATOM	6502	HG23	THR	X	432	47.206	27.273	25.456	0.00	0.00
ATOM	6503	OG1	THR	X	432	45.152	25.487	25.042	0.00	0.00

ATOM	6504	HG1	THR	X	432	45.072	24.650	25.505	0.00	0.00
ATOM	6505	C	THR	X	432	45.875	26.759	28.492	0.00	0.00
ATOM	6506	O	THR	X	432	44.857	27.337	28.872	0.00	0.00
ATOM	6507	N	LEU	X	433	47.129	27.007	28.962	0.00	0.00
ATOM	6508	H	LEU	X	433	47.956	26.527	28.636	0.00	0.00
ATOM	6509	CA	LEU	X	433	47.562	28.113	29.888	0.00	0.00
ATOM	6510	HA	LEU	X	433	46.908	28.975	30.021	0.00	0.00
ATOM	6511	CB	LEU	X	433	47.489	27.513	31.334	0.00	0.00
ATOM	6512	HB2	LEU	X	433	46.653	26.816	31.385	0.00	0.00
ATOM	6513	HB3	LEU	X	433	48.457	27.051	31.532	0.00	0.00
ATOM	6514	CG	LEU	X	433	47.092	28.469	32.484	0.00	0.00
ATOM	6515	HG	LEU	X	433	47.825	29.275	32.539	0.00	0.00
ATOM	6516	CD1	LEU	X	433	45.649	28.891	32.271	0.00	0.00
ATOM	6517	HD11	LEU	X	433	45.571	29.773	31.635	0.00	0.00
ATOM	6518	HD12	LEU	X	433	45.107	29.188	33.169	0.00	0.00
ATOM	6519	HD13	LEU	X	433	45.077	28.019	31.955	0.00	0.00
ATOM	6520	CD2	LEU	X	433	47.212	27.817	33.805	0.00	0.00
ATOM	6521	HD21	LEU	X	433	48.226	27.423	33.878	0.00	0.00
ATOM	6522	HD22	LEU	X	433	47.136	28.547	34.611	0.00	0.00
ATOM	6523	HD23	LEU	X	433	46.526	26.977	33.917	0.00	0.00
ATOM	6524	C	LEU	X	433	48.986	28.659	29.523	0.00	0.00
ATOM	6525	O	LEU	X	433	49.925	27.904	29.330	0.00	0.00
ATOM	6526	N	SER	X	434	49.126	29.950	29.435	0.00	0.00
ATOM	6527	H	SER	X	434	48.270	30.460	29.600	0.00	0.00
ATOM	6528	CA	SER	X	434	50.460	30.563	29.205	0.00	0.00
ATOM	6529	HA	SER	X	434	50.824	30.138	28.270	0.00	0.00
ATOM	6530	CB	SER	X	434	50.305	32.068	28.952	0.00	0.00
ATOM	6531	HB2	SER	X	434	49.993	32.534	29.887	0.00	0.00
ATOM	6532	HB3	SER	X	434	51.271	32.505	28.701	0.00	0.00
ATOM	6533	OG	SER	X	434	49.320	32.322	27.902	0.00	0.00
ATOM	6534	HG	SER	X	434	49.588	31.768	27.164	0.00	0.00
ATOM	6535	C	SER	X	434	51.514	30.163	30.271	0.00	0.00
ATOM	6536	O	SER	X	434	52.740	30.230	30.007	0.00	0.00
ATOM	6537	N	TRP	X	435	51.094	29.815	31.496	0.00	0.00
ATOM	6538	H	TRP	X	435	50.138	29.548	31.683	0.00	0.00
ATOM	6539	CA	TRP	X	435	52.017	29.586	32.650	0.00	0.00
ATOM	6540	HA	TRP	X	435	53.003	30.028	32.509	0.00	0.00
ATOM	6541	CB	TRP	X	435	51.354	30.126	33.911	0.00	0.00
ATOM	6542	HB2	TRP	X	435	50.547	29.436	34.160	0.00	0.00
ATOM	6543	HB3	TRP	X	435	52.125	30.165	34.680	0.00	0.00
ATOM	6544	CG	TRP	X	435	50.842	31.522	33.800	0.00	0.00
ATOM	6545	CD1	TRP	X	435	49.564	31.768	33.393	0.00	0.00
ATOM	6546	HD1	TRP	X	435	48.870	31.020	33.037	0.00	0.00
ATOM	6547	NE1	TRP	X	435	49.330	33.107	33.353	0.00	0.00
ATOM	6548	HE1	TRP	X	435	48.377	33.423	33.238	0.00	0.00
ATOM	6549	CE2	TRP	X	435	50.418	33.875	33.722	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	50.576	35.220	34.006	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	49.787	35.922	33.782	0.00	0.00
ATOM	6552	CH2	TRP	X	435	51.827	35.672	34.467	0.00	0.00
ATOM	6553	HH2	TRP	X	435	52.038	36.729	34.533	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	52.881	34.806	34.660	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	53.829	35.125	35.068	0.00	0.00
ATOM	6556	CE3	TRP	X	435	52.619	33.455	34.524	0.00	0.00
ATOM	6557	HE3	TRP	X	435	53.379	32.723	34.752	0.00	0.00
ATOM	6558	CD2	TRP	X	435	51.424	32.886	34.058	0.00	0.00
ATOM	6559	C	TRP	X	435	52.233	28.064	32.861	0.00	0.00
ATOM	6560	O	TRP	X	435	51.210	27.332	32.767	0.00	0.00
ATOM	6561	N	PRO	X	436	53.423	27.644	33.365	0.00	0.00
ATOM	6562	CD	PRO	X	436	54.500	28.445	33.970	0.00	0.00
ATOM	6563	HD2	PRO	X	436	54.027	29.180	34.622	0.00	0.00
ATOM	6564	HD3	PRO	X	436	55.035	28.883	33.128	0.00	0.00
ATOM	6565	CG	PRO	X	436	55.417	27.479	34.675	0.00	0.00
ATOM	6566	HG2	PRO	X	436	55.037	27.176	35.651	0.00	0.00
ATOM	6567	HG3	PRO	X	436	56.427	27.882	34.745	0.00	0.00
ATOM	6568	CB	PRO	X	436	55.264	26.247	33.728	0.00	0.00
ATOM	6569	HB2	PRO	X	436	55.610	25.299	34.140	0.00	0.00
ATOM	6570	HB3	PRO	X	436	55.865	26.428	32.836	0.00	0.00

ATOM	6571	CA	PRO	X	436	53.795	26.215	33.399	0.00	0.00
ATOM	6572	HA	PRO	X	436	53.602	25.710	32.453	0.00	0.00
ATOM	6573	C	PRO	X	436	53.064	25.398	34.534	0.00	0.00
ATOM	6574	O	PRO	X	436	52.690	26.007	35.551	0.00	0.00
ATOM	6575	N	LEU	X	437	52.883	24.101	34.273	0.00	0.00
ATOM	6576	H	LEU	X	437	53.360	23.865	33.415	0.00	0.00
ATOM	6577	CA	LEU	X	437	52.131	23.172	35.139	0.00	0.00
ATOM	6578	HA	LEU	X	437	51.078	23.336	34.910	0.00	0.00
ATOM	6579	CB	LEU	X	437	52.427	21.778	34.514	0.00	0.00
ATOM	6580	HB2	LEU	X	437	52.223	21.735	33.444	0.00	0.00
ATOM	6581	HB3	LEU	X	437	53.504	21.631	34.437	0.00	0.00
ATOM	6582	CG	LEU	X	437	51.949	20.619	35.343	0.00	0.00
ATOM	6583	HG	LEU	X	437	52.408	20.658	36.331	0.00	0.00
ATOM	6584	CD1	LEU	X	437	50.436	20.641	35.600	0.00	0.00
ATOM	6585	HD11	LEU	X	437	50.232	21.585	36.105	0.00	0.00
ATOM	6586	HD12	LEU	X	437	50.233	19.818	36.285	0.00	0.00
ATOM	6587	HD13	LEU	X	437	49.828	20.492	34.708	0.00	0.00
ATOM	6588	CD2	LEU	X	437	52.192	19.241	34.632	0.00	0.00
ATOM	6589	HD21	LEU	X	437	53.267	19.067	34.579	0.00	0.00
ATOM	6590	HD22	LEU	X	437	51.874	18.424	35.280	0.00	0.00
ATOM	6591	HD23	LEU	X	437	51.798	18.986	33.648	0.00	0.00
ATOM	6592	C	LEU	X	437	52.466	23.290	36.630	0.00	0.00
ATOM	6593	O	LEU	X	437	51.530	23.345	37.430	0.00	0.00
ATOM	6594	N	TRP	X	438	53.723	23.571	36.956	0.00	0.00
ATOM	6595	H	TRP	X	438	54.397	23.544	36.205	0.00	0.00
ATOM	6596	CA	TRP	X	438	54.105	23.734	38.429	0.00	0.00
ATOM	6597	HA	TRP	X	438	53.519	22.924	38.864	0.00	0.00
ATOM	6598	CB	TRP	X	438	55.657	23.646	38.637	0.00	0.00
ATOM	6599	HB2	TRP	X	438	55.880	23.536	39.698	0.00	0.00
ATOM	6600	HB3	TRP	X	438	56.056	22.766	38.133	0.00	0.00
ATOM	6601	CG	TRP	X	438	56.407	24.834	38.075	0.00	0.00
ATOM	6602	CD1	TRP	X	438	56.983	24.858	36.856	0.00	0.00
ATOM	6603	HD1	TRP	X	438	56.849	24.105	36.093	0.00	0.00
ATOM	6604	NE1	TRP	X	438	57.529	26.101	36.578	0.00	0.00
ATOM	6605	HE1	TRP	X	438	58.019	26.339	35.727	0.00	0.00
ATOM	6606	CE2	TRP	X	438	57.290	26.974	37.620	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	57.650	28.299	37.865	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	57.939	28.946	37.050	0.00	0.00
ATOM	6609	CH2	TRP	X	438	57.416	28.896	39.076	0.00	0.00
ATOM	6610	HH2	TRP	X	438	57.654	29.946	39.161	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	56.684	28.180	40.030	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	56.598	28.688	40.979	0.00	0.00
ATOM	6613	CE3	TRP	X	438	56.298	26.839	39.851	0.00	0.00
ATOM	6614	HE3	TRP	X	438	55.698	26.225	40.506	0.00	0.00
ATOM	6615	CD2	TRP	X	438	56.656	26.166	38.645	0.00	0.00
ATOM	6616	C	TRP	X	438	53.611	25.023	39.112	0.00	0.00
ATOM	6617	O	TRP	X	438	53.574	25.044	40.356	0.00	0.00
ATOM	6618	N	MET	X	439	53.218	26.072	38.394	0.00	0.00
ATOM	6619	H	MET	X	439	53.378	26.061	37.397	0.00	0.00
ATOM	6620	CA	MET	X	439	52.322	27.190	38.861	0.00	0.00
ATOM	6621	HA	MET	X	439	52.788	27.411	39.821	0.00	0.00
ATOM	6622	CB	MET	X	439	52.448	28.434	37.939	0.00	0.00
ATOM	6623	HB2	MET	X	439	52.107	28.095	36.960	0.00	0.00
ATOM	6624	HB3	MET	X	439	51.791	29.241	38.261	0.00	0.00
ATOM	6625	CG	MET	X	439	53.797	29.061	37.781	0.00	0.00
ATOM	6626	HG2	MET	X	439	54.125	29.306	38.791	0.00	0.00
ATOM	6627	HG3	MET	X	439	54.546	28.393	37.357	0.00	0.00
ATOM	6628	SD	MET	X	439	53.868	30.507	36.700	0.00	0.00
ATOM	6629	CE	MET	X	439	52.762	31.707	37.629	0.00	0.00
ATOM	6630	HE1	MET	X	439	51.697	31.475	37.605	0.00	0.00
ATOM	6631	HE2	MET	X	439	53.111	31.671	38.662	0.00	0.00
ATOM	6632	HE3	MET	X	439	52.828	32.725	37.247	0.00	0.00
ATOM	6633	C	MET	X	439	50.882	26.914	39.179	0.00	0.00
ATOM	6634	O	MET	X	439	50.271	27.679	39.940	0.00	0.00
ATOM	6635	N	GLY	X	440	50.356	25.776	38.581	0.00	0.00
ATOM	6636	H	GLY	X	440	50.901	25.283	37.888	0.00	0.00
ATOM	6637	CA	GLY	X	440	49.159	24.986	38.844	0.00	0.00

ATOM	6638	HA2	GLY	X	440	49.234	23.956	38.496	0.00	0.00
ATOM	6639	HA3	GLY	X	440	49.080	24.996	39.931	0.00	0.00
ATOM	6640	C	GLY	X	440	47.952	25.585	38.185	0.00	0.00
ATOM	6641	O	GLY	X	440	47.715	25.438	36.976	0.00	0.00
ATOM	6642	N	VAL	X	441	47.123	26.341	38.949	0.00	0.00
ATOM	6643	H	VAL	X	441	47.211	26.349	39.955	0.00	0.00
ATOM	6644	CA	VAL	X	441	45.888	26.982	38.503	0.00	0.00
ATOM	6645	HA	VAL	X	441	45.848	27.238	37.445	0.00	0.00
ATOM	6646	CB	VAL	X	441	44.550	26.153	38.780	0.00	0.00
ATOM	6647	HB	VAL	X	441	44.301	26.072	39.838	0.00	0.00
ATOM	6648	CG1	VAL	X	441	43.339	26.972	38.153	0.00	0.00
ATOM	6649	HG11	VAL	X	441	42.437	26.378	38.304	0.00	0.00
ATOM	6650	HG12	VAL	X	441	43.256	27.988	38.537	0.00	0.00
ATOM	6651	HG13	VAL	X	441	43.603	26.949	37.095	0.00	0.00
ATOM	6652	CG2	VAL	X	441	44.538	24.660	38.312	0.00	0.00
ATOM	6653	HG21	VAL	X	441	45.268	24.185	38.968	0.00	0.00
ATOM	6654	HG22	VAL	X	441	44.802	24.674	37.255	0.00	0.00
ATOM	6655	HG23	VAL	X	441	43.563	24.195	38.454	0.00	0.00
ATOM	6656	C	VAL	X	441	45.770	28.332	39.230	0.00	0.00
ATOM	6657	O	VAL	X	441	45.170	28.469	40.329	0.00	0.00
ATOM	6658	N	PRO	X	442	46.452	29.297	38.637	0.00	0.00
ATOM	6659	CD	PRO	X	442	47.105	29.311	37.324	0.00	0.00
ATOM	6660	HD2	PRO	X	442	46.429	29.191	36.477	0.00	0.00
ATOM	6661	HD3	PRO	X	442	47.884	28.550	37.373	0.00	0.00
ATOM	6662	CG	PRO	X	442	47.793	30.594	37.125	0.00	0.00
ATOM	6663	HG2	PRO	X	442	47.343	31.343	36.474	0.00	0.00
ATOM	6664	HG3	PRO	X	442	48.782	30.244	36.830	0.00	0.00
ATOM	6665	CB	PRO	X	442	47.938	31.168	38.558	0.00	0.00
ATOM	6666	HB2	PRO	X	442	47.953	32.257	38.619	0.00	0.00
ATOM	6667	HB3	PRO	X	442	48.899	30.855	38.967	0.00	0.00
ATOM	6668	CA	PRO	X	442	46.753	30.593	39.346	0.00	0.00
ATOM	6669	HA	PRO	X	442	47.115	30.431	40.361	0.00	0.00
ATOM	6670	C	PRO	X	442	45.584	31.564	39.462	0.00	0.00
ATOM	6671	O	PRO	X	442	44.592	31.554	38.737	0.00	0.00
ATOM	6672	N	HIP	X	443	45.719	32.436	40.499	0.00	0.00
ATOM	6673	H	HIP	X	443	46.495	32.223	41.109	0.00	0.00
ATOM	6674	CA	HIP	X	443	44.811	33.513	40.901	0.00	0.00
ATOM	6675	HA	HIP	X	443	44.119	33.216	41.688	0.00	0.00
ATOM	6676	CB	HIP	X	443	45.755	34.645	41.407	0.00	0.00
ATOM	6677	HB2	HIP	X	443	46.430	34.262	42.173	0.00	0.00
ATOM	6678	HB3	HIP	X	443	46.339	34.889	40.519	0.00	0.00
ATOM	6679	CG	HIP	X	443	45.219	35.853	41.961	0.00	0.00
ATOM	6680	ND1	HIP	X	443	44.261	36.038	43.011	0.00	0.00
ATOM	6681	HD1	HIP	X	443	44.140	35.384	43.771	0.00	0.00
ATOM	6682	CE1	HIP	X	443	43.882	37.318	42.936	0.00	0.00
ATOM	6683	HE1	HIP	X	443	43.233	37.819	43.638	0.00	0.00
ATOM	6684	NE2	HIP	X	443	44.541	37.955	41.946	0.00	0.00
ATOM	6685	HE2	HIP	X	443	44.539	38.955	41.804	0.00	0.00
ATOM	6686	CD2	HIP	X	443	45.374	37.010	41.320	0.00	0.00
ATOM	6687	HD2	HIP	X	443	46.046	37.130	40.482	0.00	0.00
ATOM	6688	C	HIP	X	443	43.926	34.093	39.733	0.00	0.00
ATOM	6689	O	HIP	X	443	44.433	34.698	38.798	0.00	0.00
ATOM	6690	N	GLY	X	444	42.683	33.563	39.815	0.00	0.00
ATOM	6691	H	GLY	X	444	42.393	33.038	40.627	0.00	0.00
ATOM	6692	CA	GLY	X	444	41.536	34.047	39.021	0.00	0.00
ATOM	6693	HA2	GLY	X	444	40.670	33.770	39.621	0.00	0.00
ATOM	6694	HA3	GLY	X	444	41.543	35.114	38.797	0.00	0.00
ATOM	6695	C	GLY	X	444	41.384	33.435	37.566	0.00	0.00
ATOM	6696	O	GLY	X	444	40.692	33.931	36.767	0.00	0.00
ATOM	6697	N	TYR	X	445	42.054	32.256	37.331	0.00	0.00
ATOM	6698	H	TYR	X	445	42.744	31.921	37.989	0.00	0.00
ATOM	6699	CA	TYR	X	445	42.146	31.663	35.969	0.00	0.00
ATOM	6700	HA	TYR	X	445	42.068	32.473	35.244	0.00	0.00
ATOM	6701	CB	TYR	X	445	43.613	31.125	35.798	0.00	0.00
ATOM	6702	HB2	TYR	X	445	44.123	30.732	36.678	0.00	0.00
ATOM	6703	HB3	TYR	X	445	43.751	30.363	35.031	0.00	0.00
ATOM	6704	CG	TYR	X	445	44.497	32.200	35.164	0.00	0.00

ATOM	6705	CD1	TYR	X	445	44.896	32.122	33.804	0.00	0.00
ATOM	6706	HD1	TYR	X	445	44.493	31.318	33.206	0.00	0.00
ATOM	6707	CE1	TYR	X	445	45.550	33.230	33.158	0.00	0.00
ATOM	6708	HE1	TYR	X	445	45.795	33.186	32.107	0.00	0.00
ATOM	6709	CZ	TYR	X	445	45.922	34.335	33.970	0.00	0.00
ATOM	6710	OH	TYR	X	445	46.522	35.426	33.408	0.00	0.00
ATOM	6711	HH	TYR	X	445	46.312	35.621	32.491	0.00	0.00
ATOM	6712	CE2	TYR	X	445	45.656	34.305	35.319	0.00	0.00
ATOM	6713	HE2	TYR	X	445	46.000	35.186	35.840	0.00	0.00
ATOM	6714	CD2	TYR	X	445	44.940	33.272	35.929	0.00	0.00
ATOM	6715	HD2	TYR	X	445	44.866	33.383	37.000	0.00	0.00
ATOM	6716	C	TYR	X	445	40.972	30.660	35.732	0.00	0.00
ATOM	6717	O	TYR	X	445	41.053	29.915	34.698	0.00	0.00
ATOM	6718	N	GLU	X	446	40.063	30.525	36.634	0.00	0.00
ATOM	6719	H	GLU	X	446	40.131	31.211	37.372	0.00	0.00
ATOM	6720	CA	GLU	X	446	38.895	29.736	36.519	0.00	0.00
ATOM	6721	HA	GLU	X	446	39.188	28.906	35.877	0.00	0.00
ATOM	6722	CB	GLU	X	446	38.412	29.205	37.888	0.00	0.00
ATOM	6723	HB2	GLU	X	446	38.036	28.185	37.805	0.00	0.00
ATOM	6724	HB3	GLU	X	446	39.293	29.034	38.506	0.00	0.00
ATOM	6725	CG	GLU	X	446	37.351	29.965	38.716	0.00	0.00
ATOM	6726	HG2	GLU	X	446	36.464	30.179	38.119	0.00	0.00
ATOM	6727	HG3	GLU	X	446	37.080	29.310	39.544	0.00	0.00
ATOM	6728	CD	GLU	X	446	37.998	31.230	39.308	0.00	0.00
ATOM	6729	OE1	GLU	X	446	38.717	31.975	38.602	0.00	0.00
ATOM	6730	OE2	GLU	X	446	37.789	31.429	40.523	0.00	0.00
ATOM	6731	C	GLU	X	446	37.803	30.442	35.675	0.00	0.00
ATOM	6732	O	GLU	X	446	36.955	29.770	35.059	0.00	0.00
ATOM	6733	N	ILE	X	447	37.753	31.753	35.600	0.00	0.00
ATOM	6734	H	ILE	X	447	38.356	32.288	36.208	0.00	0.00
ATOM	6735	CA	ILE	X	447	36.732	32.509	34.797	0.00	0.00
ATOM	6736	HA	ILE	X	447	35.710	32.281	35.099	0.00	0.00
ATOM	6737	CB	ILE	X	447	36.832	34.085	35.040	0.00	0.00
ATOM	6738	HB	ILE	X	447	35.960	34.497	34.533	0.00	0.00
ATOM	6739	CG2	ILE	X	447	36.665	34.368	36.591	0.00	0.00
ATOM	6740	HG21	ILE	X	447	37.507	34.084	37.221	0.00	0.00
ATOM	6741	HG22	ILE	X	447	35.784	33.811	36.909	0.00	0.00
ATOM	6742	HG23	ILE	X	447	36.416	35.426	36.683	0.00	0.00
ATOM	6743	CG1	ILE	X	447	38.030	34.566	34.276	0.00	0.00
ATOM	6744	HG12	ILE	X	447	38.942	34.007	34.486	0.00	0.00
ATOM	6745	HG13	ILE	X	447	38.059	34.517	33.187	0.00	0.00
ATOM	6746	CD1	ILE	X	447	38.469	36.029	34.518	0.00	0.00
ATOM	6747	HD11	ILE	X	447	38.994	36.313	33.607	0.00	0.00
ATOM	6748	HD12	ILE	X	447	39.111	36.075	35.398	0.00	0.00
ATOM	6749	HD13	ILE	X	447	37.657	36.750	34.616	0.00	0.00
ATOM	6750	C	ILE	X	447	36.706	32.183	33.273	0.00	0.00
ATOM	6751	O	ILE	X	447	35.687	32.587	32.667	0.00	0.00
ATOM	6752	N	GLU	X	448	37.727	31.448	32.772	0.00	0.00
ATOM	6753	H	GLU	X	448	38.396	31.113	33.451	0.00	0.00
ATOM	6754	CA	GLU	X	448	37.783	31.006	31.393	0.00	0.00
ATOM	6755	HA	GLU	X	448	37.624	31.878	30.758	0.00	0.00
ATOM	6756	CB	GLU	X	448	39.116	30.261	31.045	0.00	0.00
ATOM	6757	HB2	GLU	X	448	39.257	29.267	31.470	0.00	0.00
ATOM	6758	HB3	GLU	X	448	39.108	30.165	29.959	0.00	0.00
ATOM	6759	CG	GLU	X	448	40.283	31.174	31.382	0.00	0.00
ATOM	6760	HG2	GLU	X	448	39.980	32.199	31.168	0.00	0.00
ATOM	6761	HG3	GLU	X	448	40.525	31.103	32.442	0.00	0.00
ATOM	6762	CD	GLU	X	448	41.416	30.806	30.529	0.00	0.00
ATOM	6763	OE1	GLU	X	448	42.025	29.703	30.574	0.00	0.00
ATOM	6764	OE2	GLU	X	448	41.743	31.667	29.640	0.00	0.00
ATOM	6765	C	GLU	X	448	36.609	30.113	31.094	0.00	0.00
ATOM	6766	O	GLU	X	448	36.142	30.272	29.994	0.00	0.00
ATOM	6767	N	PHE	X	449	36.176	29.303	32.071	0.00	0.00
ATOM	6768	H	PHE	X	449	36.659	29.341	32.957	0.00	0.00
ATOM	6769	CA	PHE	X	449	35.040	28.442	32.018	0.00	0.00
ATOM	6770	HA	PHE	X	449	34.887	28.077	31.002	0.00	0.00
ATOM	6771	CB	PHE	X	449	35.319	27.229	32.924	0.00	0.00

ATOM	6772	HB2	PHE	X	449	35.569	27.519	33.945	0.00	0.00
ATOM	6773	HB3	PHE	X	449	34.402	26.646	33.013	0.00	0.00
ATOM	6774	CG	PHE	X	449	36.369	26.270	32.455	0.00	0.00
ATOM	6775	CD1	PHE	X	449	37.704	26.712	32.417	0.00	0.00
ATOM	6776	HD1	PHE	X	449	38.010	27.623	32.909	0.00	0.00
ATOM	6777	CE1	PHE	X	449	38.667	26.045	31.662	0.00	0.00
ATOM	6778	HE1	PHE	X	449	39.641	26.512	31.654	0.00	0.00
ATOM	6779	CZ	PHE	X	449	38.341	24.906	30.975	0.00	0.00
ATOM	6780	HZ	PHE	X	449	39.027	24.229	30.488	0.00	0.00
ATOM	6781	CE2	PHE	X	449	37.031	24.423	31.067	0.00	0.00
ATOM	6782	HE2	PHE	X	449	36.807	23.526	30.510	0.00	0.00
ATOM	6783	CD2	PHE	X	449	35.991	25.083	31.805	0.00	0.00
ATOM	6784	HD2	PHE	X	449	35.000	24.654	31.809	0.00	0.00
ATOM	6785	C	PHE	X	449	33.673	29.057	32.345	0.00	0.00
ATOM	6786	O	PHE	X	449	32.677	28.570	31.798	0.00	0.00
ATOM	6787	N	ILE	X	450	33.596	30.174	33.135	0.00	0.00
ATOM	6788	H	ILE	X	450	34.404	30.409	33.694	0.00	0.00
ATOM	6789	CA	ILE	X	450	32.256	30.892	33.196	0.00	0.00
ATOM	6790	HA	ILE	X	450	31.441	30.168	33.193	0.00	0.00
ATOM	6791	CB	ILE	X	450	31.927	31.600	34.510	0.00	0.00
ATOM	6792	HB	ILE	X	450	32.617	32.444	34.545	0.00	0.00
ATOM	6793	CG2	ILE	X	450	30.476	32.019	34.604	0.00	0.00
ATOM	6794	HG21	ILE	X	450	30.255	32.384	35.607	0.00	0.00
ATOM	6795	HG22	ILE	X	450	29.768	31.305	34.184	0.00	0.00
ATOM	6796	HG23	ILE	X	450	30.336	32.937	34.034	0.00	0.00
ATOM	6797	CG1	ILE	X	450	32.166	30.709	35.773	0.00	0.00
ATOM	6798	HG12	ILE	X	450	33.154	30.286	35.589	0.00	0.00
ATOM	6799	HG13	ILE	X	450	32.318	31.382	36.617	0.00	0.00
ATOM	6800	CD1	ILE	X	450	31.233	29.528	36.072	0.00	0.00
ATOM	6801	HD11	ILE	X	450	31.603	29.170	37.034	0.00	0.00
ATOM	6802	HD12	ILE	X	450	31.399	28.804	35.274	0.00	0.00
ATOM	6803	HD13	ILE	X	450	30.199	29.833	36.233	0.00	0.00
ATOM	6804	C	ILE	X	450	32.078	31.741	31.937	0.00	0.00
ATOM	6805	O	ILE	X	450	31.047	31.543	31.293	0.00	0.00
ATOM	6806	N	PHE	X	451	33.037	32.591	31.524	0.00	0.00
ATOM	6807	H	PHE	X	451	33.888	32.612	32.068	0.00	0.00
ATOM	6808	CA	PHE	X	451	32.966	33.305	30.253	0.00	0.00
ATOM	6809	HA	PHE	X	451	31.995	33.798	30.290	0.00	0.00
ATOM	6810	CB	PHE	X	451	34.033	34.425	30.209	0.00	0.00
ATOM	6811	HB2	PHE	X	451	35.020	34.046	30.474	0.00	0.00
ATOM	6812	HB3	PHE	X	451	34.196	34.864	29.224	0.00	0.00
ATOM	6813	CG	PHE	X	451	33.563	35.574	31.113	0.00	0.00
ATOM	6814	CD1	PHE	X	451	33.894	35.655	32.480	0.00	0.00
ATOM	6815	HD1	PHE	X	451	34.572	35.002	33.010	0.00	0.00
ATOM	6816	CE1	PHE	X	451	33.343	36.758	33.202	0.00	0.00
ATOM	6817	HE1	PHE	X	451	33.542	36.841	34.260	0.00	0.00
ATOM	6818	CZ	PHE	X	451	32.453	37.675	32.664	0.00	0.00
ATOM	6819	HZ	PHE	X	451	32.135	38.501	33.283	0.00	0.00
ATOM	6820	CE2	PHE	X	451	32.027	37.451	31.285	0.00	0.00
ATOM	6821	HE2	PHE	X	451	31.453	38.197	30.756	0.00	0.00
ATOM	6822	CD2	PHE	X	451	32.619	36.391	30.538	0.00	0.00
ATOM	6823	HD2	PHE	X	451	32.163	36.267	29.567	0.00	0.00
ATOM	6824	C	PHE	X	451	32.920	32.437	28.980	0.00	0.00
ATOM	6825	O	PHE	X	451	32.862	32.986	27.907	0.00	0.00
ATOM	6826	N	GLY	X	452	33.060	31.108	29.190	0.00	0.00
ATOM	6827	H	GLY	X	452	33.090	30.745	30.132	0.00	0.00
ATOM	6828	CA	GLY	X	452	32.746	30.205	28.071	0.00	0.00
ATOM	6829	HA2	GLY	X	452	32.485	29.242	28.508	0.00	0.00
ATOM	6830	HA3	GLY	X	452	31.829	30.521	27.573	0.00	0.00
ATOM	6831	C	GLY	X	452	33.954	30.144	27.035	0.00	0.00
ATOM	6832	O	GLY	X	452	33.639	29.906	25.852	0.00	0.00
ATOM	6833	N	ILE	X	453	35.187	30.375	27.450	0.00	0.00
ATOM	6834	H	ILE	X	453	35.285	30.470	28.451	0.00	0.00
ATOM	6835	CA	ILE	X	453	36.397	30.354	26.569	0.00	0.00
ATOM	6836	HA	ILE	X	453	36.256	31.128	25.815	0.00	0.00
ATOM	6837	CB	ILE	X	453	37.684	30.792	27.316	0.00	0.00
ATOM	6838	HB	ILE	X	453	37.633	30.210	28.235	0.00	0.00

ATOM	6839	CG2	ILE	X	453	39.056	30.356	26.800	0.00	0.00
ATOM	6840	HG21	ILE	X	453	39.255	29.286	26.850	0.00	0.00
ATOM	6841	HG22	ILE	X	453	39.825	30.854	27.390	0.00	0.00
ATOM	6842	HG23	ILE	X	453	39.266	30.666	25.776	0.00	0.00
ATOM	6843	CG1	ILE	X	453	37.724	32.268	27.645	0.00	0.00
ATOM	6844	HG12	ILE	X	453	36.808	32.525	28.177	0.00	0.00
ATOM	6845	HG13	ILE	X	453	38.514	32.440	28.376	0.00	0.00
ATOM	6846	CD1	ILE	X	453	37.829	33.281	26.531	0.00	0.00
ATOM	6847	HD11	ILE	X	453	36.947	33.189	25.897	0.00	0.00
ATOM	6848	HD12	ILE	X	453	38.788	33.230	26.016	0.00	0.00
ATOM	6849	HD13	ILE	X	453	37.841	34.254	27.023	0.00	0.00
ATOM	6850	C	ILE	X	453	36.668	29.059	25.813	0.00	0.00
ATOM	6851	O	ILE	X	453	37.023	29.171	24.651	0.00	0.00
ATOM	6852	N	PRO	X	454	36.458	27.806	26.372	0.00	0.00
ATOM	6853	CD	PRO	X	454	36.253	27.627	27.854	0.00	0.00
ATOM	6854	HD2	PRO	X	454	35.181	27.589	28.047	0.00	0.00
ATOM	6855	HD3	PRO	X	454	36.728	28.390	28.471	0.00	0.00
ATOM	6856	CG	PRO	X	454	36.864	26.313	28.158	0.00	0.00
ATOM	6857	HG2	PRO	X	454	36.286	25.876	28.972	0.00	0.00
ATOM	6858	HG3	PRO	X	454	37.951	26.298	28.086	0.00	0.00
ATOM	6859	CB	PRO	X	454	36.392	25.539	26.868	0.00	0.00
ATOM	6860	HB2	PRO	X	454	35.342	25.326	27.067	0.00	0.00
ATOM	6861	HB3	PRO	X	454	37.033	24.675	26.695	0.00	0.00
ATOM	6862	CA	PRO	X	454	36.596	26.510	25.750	0.00	0.00
ATOM	6863	HA	PRO	X	454	37.624	26.449	25.392	0.00	0.00
ATOM	6864	C	PRO	X	454	35.516	26.228	24.644	0.00	0.00
ATOM	6865	O	PRO	X	454	35.723	25.345	23.762	0.00	0.00
ATOM	6866	N	LEU	X	455	34.338	26.872	24.704	0.00	0.00
ATOM	6867	H	LEU	X	455	34.330	27.724	25.247	0.00	0.00
ATOM	6868	CA	LEU	X	455	33.116	26.684	23.906	0.00	0.00
ATOM	6869	HA	LEU	X	455	32.967	25.612	23.776	0.00	0.00
ATOM	6870	CB	LEU	X	455	31.895	27.374	24.663	0.00	0.00
ATOM	6871	HB2	LEU	X	455	32.176	28.423	24.760	0.00	0.00
ATOM	6872	HB3	LEU	X	455	31.051	27.178	24.002	0.00	0.00
ATOM	6873	CG	LEU	X	455	31.552	26.956	26.137	0.00	0.00
ATOM	6874	HG	LEU	X	455	32.392	27.257	26.763	0.00	0.00
ATOM	6875	CD1	LEU	X	455	30.254	27.638	26.507	0.00	0.00
ATOM	6876	HD11	LEU	X	455	30.384	28.718	26.438	0.00	0.00
ATOM	6877	HD12	LEU	X	455	29.882	27.411	27.506	0.00	0.00
ATOM	6878	HD13	LEU	X	455	29.547	27.339	25.733	0.00	0.00
ATOM	6879	CD2	LEU	X	455	31.307	25.402	26.152	0.00	0.00
ATOM	6880	HD21	LEU	X	455	30.777	24.938	25.319	0.00	0.00
ATOM	6881	HD22	LEU	X	455	32.287	24.930	26.082	0.00	0.00
ATOM	6882	HD23	LEU	X	455	30.813	25.044	27.056	0.00	0.00
ATOM	6883	C	LEU	X	455	33.406	27.180	22.376	0.00	0.00
ATOM	6884	O	LEU	X	455	32.658	26.873	21.530	0.00	0.00
ATOM	6885	N	ASP	X	456	34.426	28.043	22.078	0.00	0.00
ATOM	6886	H	ASP	X	456	35.152	28.179	22.768	0.00	0.00
ATOM	6887	CA	ASP	X	456	34.766	28.507	20.737	0.00	0.00
ATOM	6888	HA	ASP	X	456	33.801	28.778	20.308	0.00	0.00
ATOM	6889	CB	ASP	X	456	35.681	29.681	20.794	0.00	0.00
ATOM	6890	HB2	ASP	X	456	35.148	30.456	21.344	0.00	0.00
ATOM	6891	HB3	ASP	X	456	36.533	29.382	21.404	0.00	0.00
ATOM	6892	CG	ASP	X	456	36.103	30.094	19.313	0.00	0.00
ATOM	6893	OD1	ASP	X	456	37.336	30.020	19.038	0.00	0.00
ATOM	6894	OD2	ASP	X	456	35.229	30.458	18.481	0.00	0.00
ATOM	6895	C	ASP	X	456	35.331	27.338	19.853	0.00	0.00
ATOM	6896	O	ASP	X	456	36.369	26.748	20.227	0.00	0.00
ATOM	6897	N	PRO	X	457	34.733	27.010	18.681	0.00	0.00
ATOM	6898	CD	PRO	X	457	33.450	27.573	18.258	0.00	0.00
ATOM	6899	HD2	PRO	X	457	33.614	28.553	17.810	0.00	0.00
ATOM	6900	HD3	PRO	X	457	32.666	27.555	19.015	0.00	0.00
ATOM	6901	CG	PRO	X	457	32.957	26.609	17.132	0.00	0.00
ATOM	6902	HG2	PRO	X	457	32.209	27.050	16.473	0.00	0.00
ATOM	6903	HG3	PRO	X	457	32.642	25.669	17.586	0.00	0.00
ATOM	6904	CB	PRO	X	457	34.325	26.320	16.484	0.00	0.00
ATOM	6905	HB2	PRO	X	457	34.643	27.155	15.860	0.00	0.00

ATOM	6906	HB3	PRO	X	457	34.260	25.405	15.895	0.00	0.00
ATOM	6907	CA	PRO	X	457	35.231	26.033	17.660	0.00	0.00
ATOM	6908	HA	PRO	X	457	35.117	24.998	17.982	0.00	0.00
ATOM	6909	C	PRO	X	457	36.745	26.124	17.271	0.00	0.00
ATOM	6910	O	PRO	X	457	37.260	25.150	16.810	0.00	0.00
ATOM	6911	N	SER	X	458	37.355	27.310	17.478	0.00	0.00
ATOM	6912	H	SER	X	458	36.884	28.111	17.873	0.00	0.00
ATOM	6913	CA	SER	X	458	38.722	27.487	16.948	0.00	0.00
ATOM	6914	HA	SER	X	458	38.773	26.786	16.115	0.00	0.00
ATOM	6915	CB	SER	X	458	39.062	28.815	16.384	0.00	0.00
ATOM	6916	HB2	SER	X	458	39.851	28.772	15.633	0.00	0.00
ATOM	6917	HB3	SER	X	458	38.171	29.105	15.826	0.00	0.00
ATOM	6918	OG	SER	X	458	39.358	29.765	17.415	0.00	0.00
ATOM	6919	HG	SER	X	458	38.570	29.791	17.964	0.00	0.00
ATOM	6920	C	SER	X	458	39.812	27.032	17.895	0.00	0.00
ATOM	6921	O	SER	X	458	40.937	26.777	17.423	0.00	0.00
ATOM	6922	N	ARG	X	459	39.522	27.009	19.198	0.00	0.00
ATOM	6923	H	ARG	X	459	38.620	27.418	19.394	0.00	0.00
ATOM	6924	CA	ARG	X	459	40.589	26.821	20.218	0.00	0.00
ATOM	6925	HA	ARG	X	459	41.455	27.263	19.724	0.00	0.00
ATOM	6926	CB	ARG	X	459	40.223	27.558	21.505	0.00	0.00
ATOM	6927	HB2	ARG	X	459	39.455	27.050	22.089	0.00	0.00
ATOM	6928	HB3	ARG	X	459	41.082	27.701	22.160	0.00	0.00
ATOM	6929	CG	ARG	X	459	39.725	28.987	21.285	0.00	0.00
ATOM	6930	HG2	ARG	X	459	40.398	29.432	20.552	0.00	0.00
ATOM	6931	HG3	ARG	X	459	38.701	28.924	20.917	0.00	0.00
ATOM	6932	CD	ARG	X	459	39.862	29.756	22.623	0.00	0.00
ATOM	6933	HD2	ARG	X	459	39.780	28.997	23.402	0.00	0.00
ATOM	6934	HD3	ARG	X	459	40.792	30.318	22.708	0.00	0.00
ATOM	6935	NE	ARG	X	459	38.783	30.705	22.862	0.00	0.00
ATOM	6936	HE	ARG	X	459	38.090	30.413	23.536	0.00	0.00
ATOM	6937	CZ	ARG	X	459	38.891	32.039	22.547	0.00	0.00
ATOM	6938	NH1	ARG	X	459	39.776	32.624	21.870	0.00	0.00
ATOM	6939	HH11	ARG	X	459	40.500	32.054	21.457	0.00	0.00
ATOM	6940	HH12	ARG	X	459	39.723	33.628	21.773	0.00	0.00
ATOM	6941	NH2	ARG	X	459	37.796	32.780	22.770	0.00	0.00
ATOM	6942	HH21	ARG	X	459	36.959	32.419	23.207	0.00	0.00
ATOM	6943	HH22	ARG	X	459	37.754	33.744	22.473	0.00	0.00
ATOM	6944	C	ARG	X	459	40.863	25.360	20.597	0.00	0.00
ATOM	6945	O	ARG	X	459	40.019	24.452	20.326	0.00	0.00
ATOM	6946	N	ASN	X	460	42.029	25.150	21.261	0.00	0.00
ATOM	6947	H	ASN	X	460	42.589	25.956	21.500	0.00	0.00
ATOM	6948	CA	ASN	X	460	42.489	23.798	21.529	0.00	0.00
ATOM	6949	HA	ASN	X	460	42.500	23.186	20.627	0.00	0.00
ATOM	6950	CB	ASN	X	460	43.999	23.873	21.932	0.00	0.00
ATOM	6951	HB2	ASN	X	460	44.499	24.570	21.260	0.00	0.00
ATOM	6952	HB3	ASN	X	460	44.062	24.176	22.978	0.00	0.00
ATOM	6953	CG	ASN	X	460	44.746	22.563	21.849	0.00	0.00
ATOM	6954	OD1	ASN	X	460	45.051	22.065	20.736	0.00	0.00
ATOM	6955	ND2	ASN	X	460	45.347	22.111	22.926	0.00	0.00
ATOM	6956	HD21	ASN	X	460	46.004	21.348	22.858	0.00	0.00
ATOM	6957	HD22	ASN	X	460	45.209	22.649	23.769	0.00	0.00
ATOM	6958	C	ASN	X	460	41.788	22.987	22.603	0.00	0.00
ATOM	6959	O	ASN	X	460	42.245	21.896	22.966	0.00	0.00
ATOM	6960	N	TYR	X	461	40.720	23.536	23.239	0.00	0.00
ATOM	6961	H	TYR	X	461	40.293	24.423	23.012	0.00	0.00
ATOM	6962	CA	TYR	X	461	39.955	22.897	24.369	0.00	0.00
ATOM	6963	HA	TYR	X	461	40.698	22.578	25.100	0.00	0.00
ATOM	6964	CB	TYR	X	461	39.108	23.946	24.963	0.00	0.00
ATOM	6965	HB2	TYR	X	461	38.415	24.360	24.230	0.00	0.00
ATOM	6966	HB3	TYR	X	461	38.398	23.455	25.627	0.00	0.00
ATOM	6967	CG	TYR	X	461	39.873	25.031	25.808	0.00	0.00
ATOM	6968	CD1	TYR	X	461	40.392	26.165	25.113	0.00	0.00
ATOM	6969	HD1	TYR	X	461	40.369	26.129	24.034	0.00	0.00
ATOM	6970	CE1	TYR	X	461	40.905	27.301	25.825	0.00	0.00
ATOM	6971	HE1	TYR	X	461	41.494	28.024	25.281	0.00	0.00
ATOM	6972	CZ	TYR	X	461	40.919	27.302	27.242	0.00	0.00

ATOM	6973	OH	TYR	X	461	41.481	28.375	27.827	0.00	0.00
ATOM	6974	HH	TYR	X	461	41.506	28.407	28.786	0.00	0.00
ATOM	6975	CE2	TYR	X	461	40.422	26.157	27.899	0.00	0.00
ATOM	6976	HE2	TYR	X	461	40.389	26.158	28.978	0.00	0.00
ATOM	6977	CD2	TYR	X	461	39.891	25.057	27.226	0.00	0.00
ATOM	6978	HD2	TYR	X	461	39.341	24.323	27.796	0.00	0.00
ATOM	6979	C	TYR	X	461	39.221	21.695	23.962	0.00	0.00
ATOM	6980	O	TYR	X	461	38.637	21.579	22.883	0.00	0.00
ATOM	6981	N	THR	X	462	39.153	20.669	24.856	0.00	0.00
ATOM	6982	H	THR	X	462	39.479	20.900	25.784	0.00	0.00
ATOM	6983	CA	THR	X	462	38.630	19.298	24.621	0.00	0.00
ATOM	6984	HA	THR	X	462	38.889	18.987	23.609	0.00	0.00
ATOM	6985	CB	THR	X	462	39.226	18.276	25.616	0.00	0.00
ATOM	6986	HB	THR	X	462	38.700	17.342	25.421	0.00	0.00
ATOM	6987	CG2	THR	X	462	40.744	18.075	25.345	0.00	0.00
ATOM	6988	HG21	THR	X	462	41.350	18.980	25.317	0.00	0.00
ATOM	6989	HG22	THR	X	462	40.966	17.520	24.433	0.00	0.00
ATOM	6990	HG23	THR	X	462	41.160	17.552	26.206	0.00	0.00
ATOM	6991	OG1	THR	X	462	39.056	18.658	26.943	0.00	0.00
ATOM	6992	HG1	THR	X	462	39.764	19.304	26.986	0.00	0.00
ATOM	6993	C	THR	X	462	37.075	19.339	24.736	0.00	0.00
ATOM	6994	O	THR	X	462	36.592	20.170	25.471	0.00	0.00
ATOM	6995	N	ALA	X	463	36.458	18.343	24.166	0.00	0.00
ATOM	6996	H	ALA	X	463	37.015	17.694	23.627	0.00	0.00
ATOM	6997	CA	ALA	X	463	35.077	17.920	24.295	0.00	0.00
ATOM	6998	HA	ALA	X	463	34.460	18.634	23.751	0.00	0.00
ATOM	6999	CB	ALA	X	463	34.975	16.518	23.648	0.00	0.00
ATOM	7000	HB1	ALA	X	463	34.026	16.116	24.002	0.00	0.00
ATOM	7001	HB2	ALA	X	463	35.819	15.855	23.836	0.00	0.00
ATOM	7002	HB3	ALA	X	463	34.869	16.713	22.581	0.00	0.00
ATOM	7003	C	ALA	X	463	34.532	17.821	25.748	0.00	0.00
ATOM	7004	O	ALA	X	463	33.469	18.266	26.024	0.00	0.00
ATOM	7005	N	GLU	X	464	35.291	17.322	26.703	0.00	0.00
ATOM	7006	H	GLU	X	464	36.066	16.733	26.435	0.00	0.00
ATOM	7007	CA	GLU	X	464	34.940	17.378	28.134	0.00	0.00
ATOM	7008	HA	GLU	X	464	33.871	17.164	28.134	0.00	0.00
ATOM	7009	CB	GLU	X	464	35.705	16.246	28.944	0.00	0.00
ATOM	7010	HB2	GLU	X	464	35.263	16.149	29.936	0.00	0.00
ATOM	7011	HB3	GLU	X	464	35.363	15.279	28.575	0.00	0.00
ATOM	7012	CG	GLU	X	464	37.275	16.235	28.807	0.00	0.00
ATOM	7013	HG2	GLU	X	464	37.574	17.267	28.623	0.00	0.00
ATOM	7014	HG3	GLU	X	464	37.705	15.792	29.705	0.00	0.00
ATOM	7015	CD	GLU	X	464	37.694	15.230	27.673	0.00	0.00
ATOM	7016	OE1	GLU	X	464	37.200	15.440	26.537	0.00	0.00
ATOM	7017	OE2	GLU	X	464	38.502	14.333	27.874	0.00	0.00
ATOM	7018	C	GLU	X	464	35.148	18.750	28.885	0.00	0.00
ATOM	7019	O	GLU	X	464	34.562	18.945	29.959	0.00	0.00
ATOM	7020	N	GLU	X	465	35.975	19.648	28.340	0.00	0.00
ATOM	7021	H	GLU	X	465	36.340	19.468	27.416	0.00	0.00
ATOM	7022	CA	GLU	X	465	36.104	21.048	28.905	0.00	0.00
ATOM	7023	HA	GLU	X	465	36.080	21.107	29.993	0.00	0.00
ATOM	7024	CB	GLU	X	465	37.467	21.719	28.478	0.00	0.00
ATOM	7025	HB2	GLU	X	465	37.639	21.547	27.416	0.00	0.00
ATOM	7026	HB3	GLU	X	465	37.431	22.773	28.753	0.00	0.00
ATOM	7027	CG	GLU	X	465	38.641	21.185	29.339	0.00	0.00
ATOM	7028	HG2	GLU	X	465	38.605	21.663	30.318	0.00	0.00
ATOM	7029	HG3	GLU	X	465	38.638	20.099	29.431	0.00	0.00
ATOM	7030	CD	GLU	X	465	40.079	21.404	28.762	0.00	0.00
ATOM	7031	OE1	GLU	X	465	40.267	21.447	27.517	0.00	0.00
ATOM	7032	OE2	GLU	X	465	40.995	21.652	29.565	0.00	0.00
ATOM	7033	C	GLU	X	465	34.954	21.925	28.357	0.00	0.00
ATOM	7034	O	GLU	X	465	34.435	22.868	28.955	0.00	0.00
ATOM	7035	N	LYS	X	466	34.372	21.472	27.240	0.00	0.00
ATOM	7036	H	LYS	X	466	34.729	20.644	26.784	0.00	0.00
ATOM	7037	CA	LYS	X	466	33.210	22.126	26.653	0.00	0.00
ATOM	7038	HA	LYS	X	466	33.410	23.189	26.785	0.00	0.00
ATOM	7039	CB	LYS	X	466	33.074	21.731	25.194	0.00	0.00

ATOM	7040	HB2	LYS	X	466	33.167	20.653	25.068	0.00	0.00
ATOM	7041	HB3	LYS	X	466	32.090	21.845	24.739	0.00	0.00
ATOM	7042	CG	LYS	X	466	34.192	22.465	24.411	0.00	0.00
ATOM	7043	HG2	LYS	X	466	33.975	23.532	24.362	0.00	0.00
ATOM	7044	HG3	LYS	X	466	35.142	22.485	24.945	0.00	0.00
ATOM	7045	CD	LYS	X	466	34.263	21.995	22.934	0.00	0.00
ATOM	7046	HD2	LYS	X	466	34.462	20.924	22.976	0.00	0.00
ATOM	7047	HD3	LYS	X	466	33.336	22.056	22.363	0.00	0.00
ATOM	7048	CE	LYS	X	466	35.393	22.597	22.140	0.00	0.00
ATOM	7049	HE2	LYS	X	466	35.538	23.645	22.401	0.00	0.00
ATOM	7050	HE3	LYS	X	466	36.361	22.166	22.397	0.00	0.00
ATOM	7051	NZ	LYS	X	466	35.129	22.606	20.708	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	34.962	21.667	20.376	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	34.302	23.181	20.630	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	35.947	22.956	20.230	0.00	0.00
ATOM	7055	C	LYS	X	466	31.898	21.715	27.425	0.00	0.00
ATOM	7056	O	LYS	X	466	30.906	22.463	27.447	0.00	0.00
ATOM	7057	N	ILE	X	467	31.911	20.501	27.920	0.00	0.00
ATOM	7058	H	ILE	X	467	32.793	20.045	27.734	0.00	0.00
ATOM	7059	CA	ILE	X	467	30.882	19.895	28.787	0.00	0.00
ATOM	7060	HA	ILE	X	467	29.842	19.982	28.474	0.00	0.00
ATOM	7061	CB	ILE	X	467	31.017	18.318	28.946	0.00	0.00
ATOM	7062	HB	ILE	X	467	32.031	17.947	29.093	0.00	0.00
ATOM	7063	CG2	ILE	X	467	30.061	17.829	30.104	0.00	0.00
ATOM	7064	HG21	ILE	X	467	30.439	17.982	31.115	0.00	0.00
ATOM	7065	HG22	ILE	X	467	29.917	16.751	30.024	0.00	0.00
ATOM	7066	HG23	ILE	X	467	29.053	18.221	29.973	0.00	0.00
ATOM	7067	CG1	ILE	X	467	30.599	17.759	27.628	0.00	0.00
ATOM	7068	HG12	ILE	X	467	31.136	18.356	26.892	0.00	0.00
ATOM	7069	HG13	ILE	X	467	31.025	16.761	27.524	0.00	0.00
ATOM	7070	CD1	ILE	X	467	29.089	17.712	27.173	0.00	0.00
ATOM	7071	HD11	ILE	X	467	29.117	17.300	26.164	0.00	0.00
ATOM	7072	HD12	ILE	X	467	28.665	18.716	27.166	0.00	0.00
ATOM	7073	HD13	ILE	X	467	28.503	17.063	27.824	0.00	0.00
ATOM	7074	C	ILE	X	467	30.955	20.505	30.224	0.00	0.00
ATOM	7075	O	ILE	X	467	29.886	20.682	30.825	0.00	0.00
ATOM	7076	N	PHE	X	468	32.125	20.716	30.786	0.00	0.00
ATOM	7077	H	PHE	X	468	32.904	20.473	30.191	0.00	0.00
ATOM	7078	CA	PHE	X	468	32.422	21.215	32.132	0.00	0.00
ATOM	7079	HA	PHE	X	468	31.634	20.828	32.778	0.00	0.00
ATOM	7080	CB	PHE	X	468	33.803	20.753	32.512	0.00	0.00
ATOM	7081	HB2	PHE	X	468	33.702	19.677	32.658	0.00	0.00
ATOM	7082	HB3	PHE	X	468	34.490	20.964	31.693	0.00	0.00
ATOM	7083	CG	PHE	X	468	34.373	21.297	33.825	0.00	0.00
ATOM	7084	CD1	PHE	X	468	33.983	20.814	35.057	0.00	0.00
ATOM	7085	HD1	PHE	X	468	33.170	20.115	35.185	0.00	0.00
ATOM	7086	CE1	PHE	X	468	34.489	21.406	36.203	0.00	0.00
ATOM	7087	HE1	PHE	X	468	34.210	21.139	37.212	0.00	0.00
ATOM	7088	CZ	PHE	X	468	35.619	22.186	36.168	0.00	0.00
ATOM	7089	HZ	PHE	X	468	36.066	22.451	37.114	0.00	0.00
ATOM	7090	CE2	PHE	X	468	36.192	22.605	34.926	0.00	0.00
ATOM	7091	HE2	PHE	X	468	37.076	23.213	34.803	0.00	0.00
ATOM	7092	CD2	PHE	X	468	35.447	22.231	33.788	0.00	0.00
ATOM	7093	HD2	PHE	X	468	35.728	22.568	32.802	0.00	0.00
ATOM	7094	C	PHE	X	468	32.198	22.726	32.080	0.00	0.00
ATOM	7095	O	PHE	X	468	31.703	23.287	33.054	0.00	0.00
ATOM	7096	N	ALA	X	469	32.574	23.505	31.021	0.00	0.00
ATOM	7097	H	ALA	X	469	33.011	23.081	30.215	0.00	0.00
ATOM	7098	CA	ALA	X	469	32.246	24.910	30.912	0.00	0.00
ATOM	7099	HA	ALA	X	469	32.602	25.452	31.788	0.00	0.00
ATOM	7100	CB	ALA	X	469	32.835	25.620	29.677	0.00	0.00
ATOM	7101	HB1	ALA	X	469	32.575	24.966	28.845	0.00	0.00
ATOM	7102	HB2	ALA	X	469	33.909	25.583	29.854	0.00	0.00
ATOM	7103	HB3	ALA	X	469	32.454	26.626	29.501	0.00	0.00
ATOM	7104	C	ALA	X	469	30.730	25.025	30.892	0.00	0.00
ATOM	7105	O	ALA	X	469	30.238	25.804	31.719	0.00	0.00
ATOM	7106	N	GLN	X	470	29.917	24.275	30.071	0.00	0.00

ATOM	7107	H	GLN	X	470	30.386	23.614	29.469	0.00	0.00
ATOM	7108	CA	GLN	X	470	28.419	24.255	30.164	0.00	0.00
ATOM	7109	HA	GLN	X	470	28.013	25.236	29.916	0.00	0.00
ATOM	7110	CB	GLN	X	470	27.846	23.199	29.271	0.00	0.00
ATOM	7111	HB2	GLN	X	470	28.652	22.491	29.081	0.00	0.00
ATOM	7112	HB3	GLN	X	470	26.995	22.712	29.747	0.00	0.00
ATOM	7113	CG	GLN	X	470	27.358	23.740	27.925	0.00	0.00
ATOM	7114	HG2	GLN	X	470	26.481	24.357	28.123	0.00	0.00
ATOM	7115	HG3	GLN	X	470	28.096	24.347	27.401	0.00	0.00
ATOM	7116	CD	GLN	X	470	26.955	22.654	27.014	0.00	0.00
ATOM	7117	OE1	GLN	X	470	27.416	21.501	27.119	0.00	0.00
ATOM	7118	NE2	GLN	X	470	25.922	22.882	26.212	0.00	0.00
ATOM	7119	HE21	GLN	X	470	25.444	22.155	25.699	0.00	0.00
ATOM	7120	HE22	GLN	X	470	25.529	23.813	26.211	0.00	0.00
ATOM	7121	C	GLN	X	470	27.883	24.107	31.609	0.00	0.00
ATOM	7122	O	GLN	X	470	26.857	24.742	32.040	0.00	0.00
ATOM	7123	N	ARG	X	471	28.539	23.274	32.399	0.00	0.00
ATOM	7124	H	ARG	X	471	29.296	22.827	31.902	0.00	0.00
ATOM	7125	CA	ARG	X	471	28.077	22.833	33.719	0.00	0.00
ATOM	7126	HA	ARG	X	471	26.997	22.683	33.742	0.00	0.00
ATOM	7127	CB	ARG	X	471	28.753	21.498	34.074	0.00	0.00
ATOM	7128	HB2	ARG	X	471	28.398	20.749	33.365	0.00	0.00
ATOM	7129	HB3	ARG	X	471	29.834	21.540	33.944	0.00	0.00
ATOM	7130	CG	ARG	X	471	28.388	20.997	35.488	0.00	0.00
ATOM	7131	HG2	ARG	X	471	28.672	21.710	36.262	0.00	0.00
ATOM	7132	HG3	ARG	X	471	27.325	20.776	35.589	0.00	0.00
ATOM	7133	CD	ARG	X	471	29.145	19.688	35.612	0.00	0.00
ATOM	7134	HD2	ARG	X	471	28.666	18.845	35.113	0.00	0.00
ATOM	7135	HD3	ARG	X	471	30.078	19.835	35.068	0.00	0.00
ATOM	7136	NE	ARG	X	471	29.444	19.366	37.018	0.00	0.00
ATOM	7137	HE	ARG	X	471	28.784	19.545	37.761	0.00	0.00
ATOM	7138	CZ	ARG	X	471	30.569	18.857	37.582	0.00	0.00
ATOM	7139	NH1	ARG	X	471	31.603	18.531	36.891	0.00	0.00
ATOM	7140	HH11	ARG	X	471	31.528	18.556	35.884	0.00	0.00
ATOM	7141	HH12	ARG	X	471	32.442	18.143	37.300	0.00	0.00
ATOM	7142	NH2	ARG	X	471	30.607	18.659	38.862	0.00	0.00
ATOM	7143	HH21	ARG	X	471	29.728	18.402	39.287	0.00	0.00
ATOM	7144	HH22	ARG	X	471	31.464	18.360	39.303	0.00	0.00
ATOM	7145	C	ARG	X	471	28.376	23.852	34.840	0.00	0.00
ATOM	7146	O	ARG	X	471	27.608	24.041	35.753	0.00	0.00
ATOM	7147	N	LEU	X	472	29.543	24.453	34.821	0.00	0.00
ATOM	7148	H	LEU	X	472	30.001	24.342	33.928	0.00	0.00
ATOM	7149	CA	LEU	X	472	29.993	25.548	35.747	0.00	0.00
ATOM	7150	HA	LEU	X	472	29.882	25.359	36.814	0.00	0.00
ATOM	7151	CB	LEU	X	472	31.467	25.955	35.498	0.00	0.00
ATOM	7152	HB2	LEU	X	472	31.588	26.213	34.446	0.00	0.00
ATOM	7153	HB3	LEU	X	472	31.573	26.906	36.018	0.00	0.00
ATOM	7154	CG	LEU	X	472	32.481	24.970	35.989	0.00	0.00
ATOM	7155	HG	LEU	X	472	32.642	24.189	35.246	0.00	0.00
ATOM	7156	CD1	LEU	X	472	33.719	25.714	35.907	0.00	0.00
ATOM	7157	HD11	LEU	X	472	33.721	26.456	36.706	0.00	0.00
ATOM	7158	HD12	LEU	X	472	33.773	26.223	34.944	0.00	0.00
ATOM	7159	HD13	LEU	X	472	34.597	25.068	35.907	0.00	0.00
ATOM	7160	CD2	LEU	X	472	32.345	24.263	37.299	0.00	0.00
ATOM	7161	HD21	LEU	X	472	32.157	24.999	38.079	0.00	0.00
ATOM	7162	HD22	LEU	X	472	31.408	23.707	37.266	0.00	0.00
ATOM	7163	HD23	LEU	X	472	33.200	23.614	37.491	0.00	0.00
ATOM	7164	C	LEU	X	472	29.123	26.749	35.576	0.00	0.00
ATOM	7165	O	LEU	X	472	28.509	27.269	36.466	0.00	0.00
ATOM	7166	N	MET	X	473	29.025	27.255	34.281	0.00	0.00
ATOM	7167	H	MET	X	473	29.527	26.807	33.527	0.00	0.00
ATOM	7168	CA	MET	X	473	27.918	28.227	33.833	0.00	0.00
ATOM	7169	HA	MET	X	473	28.327	29.230	33.959	0.00	0.00
ATOM	7170	CB	MET	X	473	27.632	28.006	32.382	0.00	0.00
ATOM	7171	HB2	MET	X	473	27.570	26.954	32.105	0.00	0.00
ATOM	7172	HB3	MET	X	473	26.686	28.482	32.125	0.00	0.00
ATOM	7173	CG	MET	X	473	28.638	28.760	31.571	0.00	0.00

ATOM	7174	HG2	MET	X	473	28.711	29.808	31.861	0.00	0.00
ATOM	7175	HG3	MET	X	473	29.561	28.205	31.740	0.00	0.00
ATOM	7176	SD	MET	X	473	28.150	28.672	29.823	0.00	0.00
ATOM	7177	CE	MET	X	473	29.364	29.859	29.228	0.00	0.00
ATOM	7178	HE1	MET	X	473	30.367	29.539	29.507	0.00	0.00
ATOM	7179	HE2	MET	X	473	29.262	30.023	28.155	0.00	0.00
ATOM	7180	HE3	MET	X	473	29.268	30.841	29.692	0.00	0.00
ATOM	7181	C	MET	X	473	26.602	28.073	34.571	0.00	0.00
ATOM	7182	O	MET	X	473	26.083	29.016	35.135	0.00	0.00
ATOM	7183	N	ARG	X	474	26.023	26.832	34.535	0.00	0.00
ATOM	7184	H	ARG	X	474	26.389	26.184	33.853	0.00	0.00
ATOM	7185	CA	ARG	X	474	24.739	26.514	35.167	0.00	0.00
ATOM	7186	HA	ARG	X	474	24.042	27.279	34.826	0.00	0.00
ATOM	7187	CB	ARG	X	474	24.274	25.178	34.625	0.00	0.00
ATOM	7188	HB2	ARG	X	474	24.519	25.108	33.565	0.00	0.00
ATOM	7189	HB3	ARG	X	474	24.812	24.365	35.111	0.00	0.00
ATOM	7190	CG	ARG	X	474	22.857	24.797	34.708	0.00	0.00
ATOM	7191	HG2	ARG	X	474	22.685	23.877	34.150	0.00	0.00
ATOM	7192	HG3	ARG	X	474	22.604	24.614	35.753	0.00	0.00
ATOM	7193	CD	ARG	X	474	21.899	25.859	34.121	0.00	0.00
ATOM	7194	HD2	ARG	X	474	21.969	26.854	34.560	0.00	0.00
ATOM	7195	HD3	ARG	X	474	22.073	25.956	33.050	0.00	0.00
ATOM	7196	NE	ARG	X	474	20.495	25.360	34.291	0.00	0.00
ATOM	7197	HE	ARG	X	474	20.359	24.573	34.908	0.00	0.00
ATOM	7198	CZ	ARG	X	474	19.448	25.707	33.559	0.00	0.00
ATOM	7199	NH1	ARG	X	474	19.446	26.814	32.828	0.00	0.00
ATOM	7200	HH11	ARG	X	474	20.192	27.492	32.886	0.00	0.00
ATOM	7201	HH12	ARG	X	474	18.597	27.103	32.364	0.00	0.00
ATOM	7202	NH2	ARG	X	474	18.397	24.932	33.549	0.00	0.00
ATOM	7203	HH21	ARG	X	474	18.391	24.100	34.121	0.00	0.00
ATOM	7204	HH22	ARG	X	474	17.766	25.030	32.767	0.00	0.00
ATOM	7205	C	ARG	X	474	24.767	26.579	36.671	0.00	0.00
ATOM	7206	O	ARG	X	474	23.723	26.734	37.279	0.00	0.00
ATOM	7207	N	TYR	X	475	25.844	26.444	37.415	0.00	0.00
ATOM	7208	H	TYR	X	475	26.719	26.125	37.023	0.00	0.00
ATOM	7209	CA	TYR	X	475	25.888	26.762	38.858	0.00	0.00
ATOM	7210	HA	TYR	X	475	25.022	26.392	39.407	0.00	0.00
ATOM	7211	CB	TYR	X	475	27.122	26.213	39.454	0.00	0.00
ATOM	7212	HB2	TYR	X	475	27.930	26.719	38.926	0.00	0.00
ATOM	7213	HB3	TYR	X	475	27.035	26.516	40.497	0.00	0.00
ATOM	7214	CG	TYR	X	475	27.192	24.688	39.433	0.00	0.00
ATOM	7215	CD1	TYR	X	475	26.132	23.776	39.800	0.00	0.00
ATOM	7216	HD1	TYR	X	475	25.168	24.181	40.071	0.00	0.00
ATOM	7217	CE1	TYR	X	475	26.366	22.409	39.796	0.00	0.00
ATOM	7218	HE1	TYR	X	475	25.532	21.769	40.044	0.00	0.00
ATOM	7219	CZ	TYR	X	475	27.647	21.852	39.435	0.00	0.00
ATOM	7220	OH	TYR	X	475	27.797	20.537	39.460	0.00	0.00
ATOM	7221	HH	TYR	X	475	26.956	20.082	39.550	0.00	0.00
ATOM	7222	CE2	TYR	X	475	28.730	22.787	39.283	0.00	0.00
ATOM	7223	HE2	TYR	X	475	29.745	22.420	39.252	0.00	0.00
ATOM	7224	CD2	TYR	X	475	28.499	24.172	39.257	0.00	0.00
ATOM	7225	HD2	TYR	X	475	29.341	24.829	39.097	0.00	0.00
ATOM	7226	C	TYR	X	475	25.833	28.293	39.163	0.00	0.00
ATOM	7227	O	TYR	X	475	24.900	28.707	39.861	0.00	0.00
ATOM	7228	N	TRP	X	476	26.666	29.089	38.544	0.00	0.00
ATOM	7229	H	TRP	X	476	27.381	28.661	37.974	0.00	0.00
ATOM	7230	CA	TRP	X	476	26.613	30.567	38.714	0.00	0.00
ATOM	7231	HA	TRP	X	476	26.801	30.777	39.767	0.00	0.00
ATOM	7232	CB	TRP	X	476	27.794	31.300	38.016	0.00	0.00
ATOM	7233	HB2	TRP	X	476	27.909	30.860	37.025	0.00	0.00
ATOM	7234	HB3	TRP	X	476	27.466	32.332	37.893	0.00	0.00
ATOM	7235	CG	TRP	X	476	29.081	31.481	38.688	0.00	0.00
ATOM	7236	CD1	TRP	X	476	29.716	32.655	38.720	0.00	0.00
ATOM	7237	HD1	TRP	X	476	29.508	33.597	38.234	0.00	0.00
ATOM	7238	NE1	TRP	X	476	30.986	32.429	39.177	0.00	0.00
ATOM	7239	HE1	TRP	X	476	31.739	33.090	39.306	0.00	0.00
ATOM	7240	CE2	TRP	X	476	31.248	31.151	39.518	0.00	0.00

ATOM	7241	CZ2	TRP	X	476	32.355	30.486	40.100	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	33.277	30.980	40.371	0.00	0.00
ATOM	7243	CH2	TRP	X	476	32.186	29.091	40.395	0.00	0.00
ATOM	7244	HH2	TRP	X	476	32.973	28.447	40.759	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	30.973	28.453	40.160	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	30.923	27.388	40.328	0.00	0.00
ATOM	7247	CE3	TRP	X	476	29.903	29.133	39.521	0.00	0.00
ATOM	7248	HE3	TRP	X	476	29.015	28.560	39.300	0.00	0.00
ATOM	7249	CD2	TRP	X	476	30.002	30.492	39.256	0.00	0.00
ATOM	7250	C	TRP	X	476	25.220	31.190	38.215	0.00	0.00
ATOM	7251	O	TRP	X	476	24.530	32.033	38.931	0.00	0.00
ATOM	7252	N	ALA	X	477	24.751	30.778	36.964	0.00	0.00
ATOM	7253	H	ALA	X	477	25.283	30.141	36.387	0.00	0.00
ATOM	7254	CA	ALA	X	477	23.376	31.115	36.429	0.00	0.00
ATOM	7255	HA	ALA	X	477	23.356	32.201	36.517	0.00	0.00
ATOM	7256	CB	ALA	X	477	23.265	30.614	34.989	0.00	0.00
ATOM	7257	HB1	ALA	X	477	23.220	29.535	34.847	0.00	0.00
ATOM	7258	HB2	ALA	X	477	24.143	30.968	34.449	0.00	0.00
ATOM	7259	HB3	ALA	X	477	22.328	31.010	34.598	0.00	0.00
ATOM	7260	C	ALA	X	477	22.217	30.712	37.356	0.00	0.00
ATOM	7261	O	ALA	X	477	21.441	31.594	37.580	0.00	0.00
ATOM	7262	N	ASN	X	478	22.060	29.483	37.892	0.00	0.00
ATOM	7263	H	ASN	X	478	22.804	28.893	37.546	0.00	0.00
ATOM	7264	CA	ASN	X	478	21.077	29.004	38.819	0.00	0.00
ATOM	7265	HA	ASN	X	478	20.086	29.067	38.369	0.00	0.00
ATOM	7266	CB	ASN	X	478	21.240	27.504	39.198	0.00	0.00
ATOM	7267	HB2	ASN	X	478	22.278	27.176	39.260	0.00	0.00
ATOM	7268	HB3	ASN	X	478	20.627	27.123	40.015	0.00	0.00
ATOM	7269	CG	ASN	X	478	20.677	26.710	38.042	0.00	0.00
ATOM	7270	OD1	ASN	X	478	19.897	27.174	37.180	0.00	0.00
ATOM	7271	ND2	ASN	X	478	20.938	25.431	38.040	0.00	0.00
ATOM	7272	HD21	ASN	X	478	20.485	24.877	37.327	0.00	0.00
ATOM	7273	HD22	ASN	X	478	21.673	25.123	38.661	0.00	0.00
ATOM	7274	C	ASN	X	478	21.074	29.901	40.064	0.00	0.00
ATOM	7275	O	ASN	X	478	20.028	30.530	40.459	0.00	0.00
ATOM	7276	N	PHE	X	479	22.260	30.198	40.655	0.00	0.00
ATOM	7277	H	PHE	X	479	23.142	29.781	40.396	0.00	0.00
ATOM	7278	CA	PHE	X	479	22.338	31.215	41.817	0.00	0.00
ATOM	7279	HA	PHE	X	479	21.838	30.779	42.682	0.00	0.00
ATOM	7280	CB	PHE	X	479	23.779	31.263	42.284	0.00	0.00
ATOM	7281	HB2	PHE	X	479	23.960	30.247	42.635	0.00	0.00
ATOM	7282	HB3	PHE	X	479	24.262	31.471	41.330	0.00	0.00
ATOM	7283	CG	PHE	X	479	24.036	32.278	43.315	0.00	0.00
ATOM	7284	CD1	PHE	X	479	23.654	32.002	44.646	0.00	0.00
ATOM	7285	HD1	PHE	X	479	23.196	31.078	44.968	0.00	0.00
ATOM	7286	CE1	PHE	X	479	23.964	32.950	45.644	0.00	0.00
ATOM	7287	HE1	PHE	X	479	23.794	32.705	46.682	0.00	0.00
ATOM	7288	CZ	PHE	X	479	24.458	34.239	45.234	0.00	0.00
ATOM	7289	HZ	PHE	X	479	24.856	35.014	45.874	0.00	0.00
ATOM	7290	CE2	PHE	X	479	24.753	34.517	43.876	0.00	0.00
ATOM	7291	HE2	PHE	X	479	25.140	35.471	43.550	0.00	0.00
ATOM	7292	CD2	PHE	X	479	24.494	33.555	42.883	0.00	0.00
ATOM	7293	HD2	PHE	X	479	24.768	33.737	41.854	0.00	0.00
ATOM	7294	C	PHE	X	479	21.788	32.659	41.498	0.00	0.00
ATOM	7295	O	PHE	X	479	21.068	33.204	42.295	0.00	0.00
ATOM	7296	N	ALA	X	480	22.020	33.146	40.296	0.00	0.00
ATOM	7297	H	ALA	X	480	22.470	32.595	39.579	0.00	0.00
ATOM	7298	CA	ALA	X	480	21.542	34.451	39.877	0.00	0.00
ATOM	7299	HA	ALA	X	480	21.864	35.141	40.657	0.00	0.00
ATOM	7300	CB	ALA	X	480	22.392	34.819	38.627	0.00	0.00
ATOM	7301	HB1	ALA	X	480	23.370	34.337	38.610	0.00	0.00
ATOM	7302	HB2	ALA	X	480	22.470	35.900	38.512	0.00	0.00
ATOM	7303	HB3	ALA	X	480	21.758	34.503	37.799	0.00	0.00
ATOM	7304	C	ALA	X	480	20.029	34.573	39.695	0.00	0.00
ATOM	7305	O	ALA	X	480	19.495	35.662	39.963	0.00	0.00
ATOM	7306	N	ARG	X	481	19.429	33.434	39.394	0.00	0.00
ATOM	7307	H	ARG	X	481	20.127	32.720	39.246	0.00	0.00

ATOM	7308	CA	ARG	X	481	18.012	33.253	39.419	0.00	0.00
ATOM	7309	HA	ARG	X	481	17.514	34.148	39.047	0.00	0.00
ATOM	7310	CB	ARG	X	481	17.541	32.107	38.507	0.00	0.00
ATOM	7311	HB2	ARG	X	481	17.918	31.182	38.943	0.00	0.00
ATOM	7312	HB3	ARG	X	481	16.457	32.044	38.406	0.00	0.00
ATOM	7313	CG	ARG	X	481	18.012	32.195	37.038	0.00	0.00
ATOM	7314	HG2	ARG	X	481	17.388	32.938	36.541	0.00	0.00
ATOM	7315	HG3	ARG	X	481	19.062	32.475	36.946	0.00	0.00
ATOM	7316	CD	ARG	X	481	18.018	30.903	36.344	0.00	0.00
ATOM	7317	HD2	ARG	X	481	18.723	30.187	36.765	0.00	0.00
ATOM	7318	HD3	ARG	X	481	16.983	30.565	36.391	0.00	0.00
ATOM	7319	NE	ARG	X	481	18.357	31.082	34.932	0.00	0.00
ATOM	7320	HE	ARG	X	481	18.057	31.940	34.492	0.00	0.00
ATOM	7321	CZ	ARG	X	481	19.307	30.452	34.278	0.00	0.00
ATOM	7322	NH1	ARG	X	481	19.959	29.453	34.844	0.00	0.00
ATOM	7323	HH11	ARG	X	481	19.711	29.012	35.718	0.00	0.00
ATOM	7324	HH12	ARG	X	481	20.709	29.104	34.264	0.00	0.00
ATOM	7325	NH2	ARG	X	481	19.737	30.893	33.094	0.00	0.00
ATOM	7326	HH21	ARG	X	481	19.173	31.536	32.557	0.00	0.00
ATOM	7327	HH22	ARG	X	481	20.335	30.249	32.597	0.00	0.00
ATOM	7328	C	ARG	X	481	17.422	33.089	40.832	0.00	0.00
ATOM	7329	O	ARG	X	481	16.794	33.990	41.377	0.00	0.00
ATOM	7330	N	THR	X	482	17.735	32.024	41.491	0.00	0.00
ATOM	7331	H	THR	X	482	18.422	31.430	41.049	0.00	0.00
ATOM	7332	CA	THR	X	482	17.002	31.545	42.694	0.00	0.00
ATOM	7333	HA	THR	X	482	16.123	32.186	42.761	0.00	0.00
ATOM	7334	CB	THR	X	482	16.585	30.065	42.568	0.00	0.00
ATOM	7335	HB	THR	X	482	16.087	29.787	43.497	0.00	0.00
ATOM	7336	CG2	THR	X	482	15.630	29.871	41.399	0.00	0.00
ATOM	7337	HG21	THR	X	482	15.259	30.755	40.881	0.00	0.00
ATOM	7338	HG22	THR	X	482	14.771	29.339	41.808	0.00	0.00
ATOM	7339	HG23	THR	X	482	16.119	29.379	40.558	0.00	0.00
ATOM	7340	OG1	THR	X	482	17.654	29.164	42.265	0.00	0.00
ATOM	7341	HG1	THR	X	482	17.695	29.140	41.306	0.00	0.00
ATOM	7342	C	THR	X	482	17.709	31.825	44.038	0.00	0.00
ATOM	7343	O	THR	X	482	17.220	31.529	45.059	0.00	0.00
ATOM	7344	N	GLY	X	483	18.945	32.371	43.962	0.00	0.00
ATOM	7345	H	GLY	X	483	19.388	32.554	43.073	0.00	0.00
ATOM	7346	CA	GLY	X	483	19.850	32.557	45.080	0.00	0.00
ATOM	7347	HA2	GLY	X	483	20.644	33.271	44.858	0.00	0.00
ATOM	7348	HA3	GLY	X	483	19.170	32.975	45.822	0.00	0.00
ATOM	7349	C	GLY	X	483	20.368	31.257	45.551	0.00	0.00
ATOM	7350	O	GLY	X	483	20.633	31.117	46.704	0.00	0.00
ATOM	7351	N	ASP	X	484	20.452	30.232	44.688	0.00	0.00
ATOM	7352	H	ASP	X	484	20.081	30.385	43.761	0.00	0.00
ATOM	7353	CA	ASP	X	484	20.880	28.811	44.923	0.00	0.00
ATOM	7354	HA	ASP	X	484	21.703	28.842	45.636	0.00	0.00
ATOM	7355	CB	ASP	X	484	19.601	28.094	45.458	0.00	0.00
ATOM	7356	HB2	ASP	X	484	19.039	28.718	46.154	0.00	0.00
ATOM	7357	HB3	ASP	X	484	18.889	27.904	44.655	0.00	0.00
ATOM	7358	CG	ASP	X	484	19.884	26.660	45.926	0.00	0.00
ATOM	7359	OD1	ASP	X	484	19.560	26.361	47.091	0.00	0.00
ATOM	7360	OD2	ASP	X	484	20.347	25.875	45.068	0.00	0.00
ATOM	7361	C	ASP	X	484	21.390	28.137	43.693	0.00	0.00
ATOM	7362	O	ASP	X	484	20.774	28.256	42.641	0.00	0.00
ATOM	7363	N	PRO	X	485	22.517	27.414	43.690	0.00	0.00
ATOM	7364	CD	PRO	X	485	23.536	27.476	44.718	0.00	0.00
ATOM	7365	HD2	PRO	X	485	23.533	26.639	45.416	0.00	0.00
ATOM	7366	HD3	PRO	X	485	23.451	28.366	45.341	0.00	0.00
ATOM	7367	CG	PRO	X	485	24.900	27.483	44.033	0.00	0.00
ATOM	7368	HG2	PRO	X	485	25.685	27.138	44.706	0.00	0.00
ATOM	7369	HG3	PRO	X	485	25.095	28.404	43.485	0.00	0.00
ATOM	7370	CB	PRO	X	485	24.607	26.439	42.990	0.00	0.00
ATOM	7371	HB2	PRO	X	485	24.585	25.420	43.378	0.00	0.00
ATOM	7372	HB3	PRO	X	485	25.286	26.538	42.143	0.00	0.00
ATOM	7373	CA	PRO	X	485	23.171	26.812	42.546	0.00	0.00
ATOM	7374	HA	PRO	X	485	23.254	27.586	41.783	0.00	0.00

ATOM	7375	C	PRO	X	485	22.391	25.609	41.927	0.00	0.00
ATOM	7376	O	PRO	X	485	22.961	25.102	41.024	0.00	0.00
ATOM	7377	N	ASN	X	486	21.231	25.212	42.333	0.00	0.00
ATOM	7378	H	ASN	X	486	20.804	25.689	43.113	0.00	0.00
ATOM	7379	CA	ASN	X	486	20.553	23.955	41.991	0.00	0.00
ATOM	7380	HA	ASN	X	486	21.344	23.291	41.642	0.00	0.00
ATOM	7381	CB	ASN	X	486	20.095	23.362	43.313	0.00	0.00
ATOM	7382	HB2	ASN	X	486	20.901	23.379	44.047	0.00	0.00
ATOM	7383	HB3	ASN	X	486	19.252	23.985	43.611	0.00	0.00
ATOM	7384	CG	ASN	X	486	19.667	21.900	43.296	0.00	0.00
ATOM	7385	OD1	ASN	X	486	19.630	21.187	42.290	0.00	0.00
ATOM	7386	ND2	ASN	X	486	19.384	21.360	44.466	0.00	0.00
ATOM	7387	HD21	ASN	X	486	19.065	20.405	44.383	0.00	0.00
ATOM	7388	HD22	ASN	X	486	19.150	21.901	45.286	0.00	0.00
ATOM	7389	C	ASN	X	486	19.389	24.171	41.009	0.00	0.00
ATOM	7390	O	ASN	X	486	18.702	25.235	41.062	0.00	0.00
ATOM	7391	N	GLU	X	487	19.013	23.203	40.153	0.00	0.00
ATOM	7392	H	GLU	X	487	19.566	22.358	40.146	0.00	0.00
ATOM	7393	CA	GLU	X	487	17.751	23.284	39.404	0.00	0.00
ATOM	7394	HA	GLU	X	487	17.799	24.231	38.867	0.00	0.00
ATOM	7395	CB	GLU	X	487	17.581	22.076	38.492	0.00	0.00
ATOM	7396	HB2	GLU	X	487	17.602	21.241	39.192	0.00	0.00
ATOM	7397	HB3	GLU	X	487	16.569	22.145	38.093	0.00	0.00
ATOM	7398	CG	GLU	X	487	18.477	21.657	37.283	0.00	0.00
ATOM	7399	HG2	GLU	X	487	19.405	21.309	37.736	0.00	0.00
ATOM	7400	HG3	GLU	X	487	18.133	20.728	36.830	0.00	0.00
ATOM	7401	CD	GLU	X	487	18.825	22.750	36.266	0.00	0.00
ATOM	7402	OE1	GLU	X	487	17.899	23.291	35.650	0.00	0.00
ATOM	7403	OE2	GLU	X	487	20.015	22.989	36.020	0.00	0.00
ATOM	7404	C	GLU	X	487	16.583	23.266	40.477	0.00	0.00
ATOM	7405	O	GLU	X	487	16.598	22.292	41.245	0.00	0.00
ATOM	7406	N	PRO	X	488	15.598	24.161	40.336	0.00	0.00
ATOM	7407	CD	PRO	X	488	15.625	25.373	39.467	0.00	0.00
ATOM	7408	HD2	PRO	X	488	15.575	24.948	38.464	0.00	0.00
ATOM	7409	HD3	PRO	X	488	16.564	25.908	39.604	0.00	0.00
ATOM	7410	CG	PRO	X	488	14.444	26.198	39.905	0.00	0.00
ATOM	7411	HG2	PRO	X	488	14.121	26.845	39.090	0.00	0.00
ATOM	7412	HG3	PRO	X	488	14.759	26.825	40.739	0.00	0.00
ATOM	7413	CB	PRO	X	488	13.501	25.134	40.510	0.00	0.00
ATOM	7414	HB2	PRO	X	488	12.980	24.641	39.689	0.00	0.00
ATOM	7415	HB3	PRO	X	488	12.829	25.530	41.271	0.00	0.00
ATOM	7416	CA	PRO	X	488	14.456	24.089	41.119	0.00	0.00
ATOM	7417	HA	PRO	X	488	14.667	24.577	42.071	0.00	0.00
ATOM	7418	C	PRO	X	488	13.872	22.688	41.403	0.00	0.00
ATOM	7419	O	PRO	X	488	13.431	22.496	42.545	0.00	0.00
ATOM	7420	N	ARG	X	489	13.936	21.710	40.456	0.00	0.00
ATOM	7421	H	ARG	X	489	14.241	21.990	39.535	0.00	0.00
ATOM	7422	CA	ARG	X	489	13.463	20.301	40.617	0.00	0.00
ATOM	7423	HA	ARG	X	489	12.483	20.356	41.091	0.00	0.00
ATOM	7424	CB	ARG	X	489	13.496	19.529	39.259	0.00	0.00
ATOM	7425	HB2	ARG	X	489	13.259	18.482	39.448	0.00	0.00
ATOM	7426	HB3	ARG	X	489	12.701	19.976	38.662	0.00	0.00
ATOM	7427	CG	ARG	X	489	14.808	19.488	38.476	0.00	0.00
ATOM	7428	HG2	ARG	X	489	15.218	20.497	38.453	0.00	0.00
ATOM	7429	HG3	ARG	X	489	15.560	18.824	38.902	0.00	0.00
ATOM	7430	CD	ARG	X	489	14.539	19.099	37.016	0.00	0.00
ATOM	7431	HD2	ARG	X	489	14.166	18.075	37.031	0.00	0.00
ATOM	7432	HD3	ARG	X	489	13.812	19.816	36.634	0.00	0.00
ATOM	7433	NE	ARG	X	489	15.690	19.312	36.159	0.00	0.00
ATOM	7434	HE	ARG	X	489	15.579	20.045	35.474	0.00	0.00
ATOM	7435	CZ	ARG	X	489	16.567	18.343	35.866	0.00	0.00
ATOM	7436	NH1	ARG	X	489	17.430	18.502	34.918	0.00	0.00
ATOM	7437	HH11	ARG	X	489	17.457	19.373	34.407	0.00	0.00
ATOM	7438	HH12	ARG	X	489	18.146	17.812	34.743	0.00	0.00
ATOM	7439	NH2	ARG	X	489	16.634	17.253	36.624	0.00	0.00
ATOM	7440	HH21	ARG	X	489	15.865	17.103	37.262	0.00	0.00
ATOM	7441	HH22	ARG	X	489	17.313	16.539	36.404	0.00	0.00

ATOM	7442	C	ARG	X	489	14.187	19.431	41.676	0.00	0.00
ATOM	7443	O	ARG	X	489	13.491	18.564	42.150	0.00	0.00
ATOM	7444	N	ASP	X	490	15.477	19.618	41.877	0.00	0.00
ATOM	7445	H	ASP	X	490	15.855	20.324	41.262	0.00	0.00
ATOM	7446	CA	ASP	X	490	16.387	18.703	42.580	0.00	0.00
ATOM	7447	HA	ASP	X	490	17.271	19.331	42.697	0.00	0.00
ATOM	7448	CB	ASP	X	490	15.954	18.533	43.980	0.00	0.00
ATOM	7449	HB2	ASP	X	490	15.483	19.453	44.328	0.00	0.00
ATOM	7450	HB3	ASP	X	490	15.271	17.684	43.971	0.00	0.00
ATOM	7451	CG	ASP	X	490	17.042	18.223	44.926	0.00	0.00
ATOM	7452	OD1	ASP	X	490	17.092	17.056	45.348	0.00	0.00
ATOM	7453	OD2	ASP	X	490	17.805	19.131	45.293	0.00	0.00
ATOM	7454	C	ASP	X	490	16.695	17.496	41.765	0.00	0.00
ATOM	7455	O	ASP	X	490	15.940	16.549	41.845	0.00	0.00
ATOM	7456	N	PRO	X	491	17.777	17.426	40.906	0.00	0.00
ATOM	7457	CD	PRO	X	491	18.676	18.579	40.694	0.00	0.00
ATOM	7458	HD2	PRO	X	491	19.621	18.445	41.221	0.00	0.00
ATOM	7459	HD3	PRO	X	491	18.254	19.541	40.984	0.00	0.00
ATOM	7460	CG	PRO	X	491	18.868	18.590	39.197	0.00	0.00
ATOM	7461	HG2	PRO	X	491	19.805	19.075	38.927	0.00	0.00
ATOM	7462	HG3	PRO	X	491	17.966	19.000	38.741	0.00	0.00
ATOM	7463	CB	PRO	X	491	18.972	17.045	38.937	0.00	0.00
ATOM	7464	HB2	PRO	X	491	20.036	16.832	39.042	0.00	0.00
ATOM	7465	HB3	PRO	X	491	18.721	16.770	37.913	0.00	0.00
ATOM	7466	CA	PRO	X	491	18.162	16.321	39.991	0.00	0.00
ATOM	7467	HA	PRO	X	491	17.223	15.951	39.580	0.00	0.00
ATOM	7468	C	PRO	X	491	18.984	15.249	40.761	0.00	0.00
ATOM	7469	O	PRO	X	491	19.718	15.557	41.718	0.00	0.00
ATOM	7470	N	LYS	X	492	18.927	13.967	40.375	0.00	0.00
ATOM	7471	H	LYS	X	492	18.463	13.813	39.491	0.00	0.00
ATOM	7472	CA	LYS	X	492	19.779	12.888	40.932	0.00	0.00
ATOM	7473	HA	LYS	X	492	19.466	12.703	41.959	0.00	0.00
ATOM	7474	CB	LYS	X	492	19.338	11.554	40.226	0.00	0.00
ATOM	7475	HB2	LYS	X	492	19.820	10.707	40.715	0.00	0.00
ATOM	7476	HB3	LYS	X	492	18.293	11.407	40.503	0.00	0.00
ATOM	7477	CG	LYS	X	492	19.588	11.520	38.693	0.00	0.00
ATOM	7478	HG2	LYS	X	492	19.398	12.480	38.213	0.00	0.00
ATOM	7479	HG3	LYS	X	492	20.605	11.179	38.495	0.00	0.00
ATOM	7480	CD	LYS	X	492	18.731	10.462	37.977	0.00	0.00
ATOM	7481	HD2	LYS	X	492	18.766	9.516	38.519	0.00	0.00
ATOM	7482	HD3	LYS	X	492	17.688	10.771	38.048	0.00	0.00
ATOM	7483	CE	LYS	X	492	19.092	10.117	36.569	0.00	0.00
ATOM	7484	HE2	LYS	X	492	20.175	10.159	36.451	0.00	0.00
ATOM	7485	HE3	LYS	X	492	18.725	9.116	36.342	0.00	0.00
ATOM	7486	NZ	LYS	X	492	18.473	11.029	35.641	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	18.993	11.009	34.775	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	17.499	10.780	35.551	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	18.508	11.983	35.969	0.00	0.00
ATOM	7490	C	LYS	X	492	21.289	12.971	41.065	0.00	0.00
ATOM	7491	O	LYS	X	492	21.932	12.234	41.857	0.00	0.00
ATOM	7492	N	ALA	X	493	21.965	13.844	40.362	0.00	0.00
ATOM	7493	H	ALA	X	493	21.392	14.413	39.756	0.00	0.00
ATOM	7494	CA	ALA	X	493	23.416	14.136	40.565	0.00	0.00
ATOM	7495	HA	ALA	X	493	24.127	13.322	40.423	0.00	0.00
ATOM	7496	CB	ALA	X	493	23.827	15.107	39.500	0.00	0.00
ATOM	7497	HB1	ALA	X	493	24.055	14.585	38.571	0.00	0.00
ATOM	7498	HB2	ALA	X	493	24.774	15.554	39.803	0.00	0.00
ATOM	7499	HB3	ALA	X	493	23.117	15.881	39.209	0.00	0.00
ATOM	7500	C	ALA	X	493	23.666	14.808	41.926	0.00	0.00
ATOM	7501	O	ALA	X	493	22.701	15.299	42.507	0.00	0.00
ATOM	7502	N	PRO	X	494	24.863	14.845	42.559	0.00	0.00
ATOM	7503	CD	PRO	X	494	26.099	14.209	42.089	0.00	0.00
ATOM	7504	HD2	PRO	X	494	26.162	14.326	41.007	0.00	0.00
ATOM	7505	HD3	PRO	X	494	26.190	13.167	42.396	0.00	0.00
ATOM	7506	CG	PRO	X	494	27.304	14.920	42.692	0.00	0.00
ATOM	7507	HG2	PRO	X	494	27.498	15.782	42.054	0.00	0.00
ATOM	7508	HG3	PRO	X	494	28.192	14.299	42.814	0.00	0.00

ATOM	7509	CB	PRO	X	494	26.733	15.390	43.995	0.00	0.00
ATOM	7510	HB2	PRO	X	494	27.333	16.205	44.401	0.00	0.00
ATOM	7511	HB3	PRO	X	494	26.608	14.556	44.685	0.00	0.00
ATOM	7512	CA	PRO	X	494	25.313	15.663	43.686	0.00	0.00
ATOM	7513	HA	PRO	X	494	24.774	15.455	44.610	0.00	0.00
ATOM	7514	C	PRO	X	494	25.055	17.202	43.452	0.00	0.00
ATOM	7515	O	PRO	X	494	25.231	17.698	42.372	0.00	0.00
ATOM	7516	N	GLN	X	495	24.853	17.879	44.545	0.00	0.00
ATOM	7517	H	GLN	X	495	24.818	17.413	45.440	0.00	0.00
ATOM	7518	CA	GLN	X	495	24.594	19.278	44.592	0.00	0.00
ATOM	7519	HA	GLN	X	495	25.012	19.631	43.650	0.00	0.00
ATOM	7520	CB	GLN	X	495	23.022	19.459	44.705	0.00	0.00
ATOM	7521	HB2	GLN	X	495	22.733	19.357	45.751	0.00	0.00
ATOM	7522	HB3	GLN	X	495	22.787	20.489	44.434	0.00	0.00
ATOM	7523	CG	GLN	X	495	22.091	18.588	43.735	0.00	0.00
ATOM	7524	HG2	GLN	X	495	22.163	17.518	43.927	0.00	0.00
ATOM	7525	HG3	GLN	X	495	21.063	18.862	43.973	0.00	0.00
ATOM	7526	CD	GLN	X	495	22.423	18.863	42.273	0.00	0.00
ATOM	7527	OE1	GLN	X	495	22.601	19.914	41.767	0.00	0.00
ATOM	7528	NE2	GLN	X	495	22.268	17.872	41.452	0.00	0.00
ATOM	7529	HE21	GLN	X	495	22.415	18.029	40.465	0.00	0.00
ATOM	7530	HE22	GLN	X	495	21.813	17.020	41.749	0.00	0.00
ATOM	7531	C	GLN	X	495	25.440	19.930	45.687	0.00	0.00
ATOM	7532	O	GLN	X	495	26.067	19.321	46.608	0.00	0.00
ATOM	7533	N	TRP	X	496	25.568	21.227	45.519	0.00	0.00
ATOM	7534	H	TRP	X	496	25.070	21.611	44.729	0.00	0.00
ATOM	7535	CA	TRP	X	496	26.363	22.162	46.269	0.00	0.00
ATOM	7536	HA	TRP	X	496	27.360	21.780	46.486	0.00	0.00
ATOM	7537	CB	TRP	X	496	26.506	23.429	45.347	0.00	0.00
ATOM	7538	HB2	TRP	X	496	26.711	22.994	44.369	0.00	0.00
ATOM	7539	HB3	TRP	X	496	25.591	24.017	45.287	0.00	0.00
ATOM	7540	CG	TRP	X	496	27.690	24.380	45.585	0.00	0.00
ATOM	7541	CD1	TRP	X	496	28.178	24.672	46.821	0.00	0.00
ATOM	7542	HD1	TRP	X	496	27.879	24.164	47.725	0.00	0.00
ATOM	7543	NE1	TRP	X	496	29.113	25.751	46.741	0.00	0.00
ATOM	7544	HE1	TRP	X	496	29.584	26.139	47.546	0.00	0.00
ATOM	7545	CE2	TRP	X	496	29.189	26.136	45.440	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	29.825	27.157	44.768	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	30.399	27.933	45.252	0.00	0.00
ATOM	7548	CH2	TRP	X	496	29.649	27.217	43.343	0.00	0.00
ATOM	7549	HH2	TRP	X	496	30.263	27.968	42.867	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	28.901	26.311	42.585	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	28.988	26.297	41.509	0.00	0.00
ATOM	7552	CE3	TRP	X	496	28.256	25.262	43.303	0.00	0.00
ATOM	7553	HE3	TRP	X	496	27.508	24.674	42.790	0.00	0.00
ATOM	7554	CD2	TRP	X	496	28.395	25.186	44.686	0.00	0.00
ATOM	7555	C	TRP	X	496	25.593	22.496	47.600	0.00	0.00
ATOM	7556	O	TRP	X	496	24.491	23.122	47.424	0.00	0.00
ATOM	7557	N	PRO	X	497	26.007	22.160	48.819	0.00	0.00
ATOM	7558	CD	PRO	X	497	27.164	21.248	49.047	0.00	0.00
ATOM	7559	HD2	PRO	X	497	28.154	21.521	48.682	0.00	0.00
ATOM	7560	HD3	PRO	X	497	27.126	20.299	48.512	0.00	0.00
ATOM	7561	CG	PRO	X	497	27.250	21.044	50.505	0.00	0.00
ATOM	7562	HG2	PRO	X	497	27.935	21.769	50.945	0.00	0.00
ATOM	7563	HG3	PRO	X	497	27.450	20.071	50.954	0.00	0.00
ATOM	7564	CB	PRO	X	497	25.905	21.536	51.058	0.00	0.00
ATOM	7565	HB2	PRO	X	497	26.117	21.917	52.057	0.00	0.00
ATOM	7566	HB3	PRO	X	497	25.254	20.663	51.091	0.00	0.00
ATOM	7567	CA	PRO	X	497	25.413	22.579	50.072	0.00	0.00
ATOM	7568	HA	PRO	X	497	24.346	22.356	50.063	0.00	0.00
ATOM	7569	C	PRO	X	497	25.847	23.978	50.419	0.00	0.00
ATOM	7570	O	PRO	X	497	26.877	24.455	49.929	0.00	0.00
ATOM	7571	N	PRO	X	498	25.029	24.694	51.285	0.00	0.00
ATOM	7572	CD	PRO	X	498	23.807	24.186	51.888	0.00	0.00
ATOM	7573	HD2	PRO	X	498	23.879	23.160	52.248	0.00	0.00
ATOM	7574	HD3	PRO	X	498	23.035	24.242	51.120	0.00	0.00
ATOM	7575	CG	PRO	X	498	23.499	25.184	53.060	0.00	0.00

ATOM	7576	HG2	PRO	X	498	23.878	24.716	53.969	0.00	0.00
ATOM	7577	HG3	PRO	X	498	22.453	25.458	53.203	0.00	0.00
ATOM	7578	CB	PRO	X	498	24.258	26.510	52.745	0.00	0.00
ATOM	7579	HB2	PRO	X	498	24.663	27.020	53.618	0.00	0.00
ATOM	7580	HB3	PRO	X	498	23.544	27.232	52.350	0.00	0.00
ATOM	7581	CA	PRO	X	498	25.362	25.980	51.858	0.00	0.00
ATOM	7582	HA	PRO	X	498	25.582	26.732	51.100	0.00	0.00
ATOM	7583	C	PRO	X	498	26.647	25.835	52.725	0.00	0.00
ATOM	7584	O	PRO	X	498	26.829	24.800	53.432	0.00	0.00
ATOM	7585	N	TYR	X	499	27.487	26.898	52.833	0.00	0.00
ATOM	7586	H	TYR	X	499	27.415	27.676	52.194	0.00	0.00
ATOM	7587	CA	TYR	X	499	28.509	27.031	53.895	0.00	0.00
ATOM	7588	HA	TYR	X	499	28.922	26.060	54.166	0.00	0.00
ATOM	7589	CB	TYR	X	499	29.589	27.899	53.270	0.00	0.00
ATOM	7590	HB2	TYR	X	499	29.924	27.310	52.416	0.00	0.00
ATOM	7591	HB3	TYR	X	499	29.201	28.823	52.840	0.00	0.00
ATOM	7592	CG	TYR	X	499	30.800	28.215	54.119	0.00	0.00
ATOM	7593	CD1	TYR	X	499	30.813	29.081	55.245	0.00	0.00
ATOM	7594	HD1	TYR	X	499	29.964	29.680	55.538	0.00	0.00
ATOM	7595	CE1	TYR	X	499	31.880	29.078	56.172	0.00	0.00
ATOM	7596	HE1	TYR	X	499	31.910	29.722	57.038	0.00	0.00
ATOM	7597	CZ	TYR	X	499	33.067	28.323	55.870	0.00	0.00
ATOM	7598	OH	TYR	X	499	34.154	28.353	56.691	0.00	0.00
ATOM	7599	HH	TYR	X	499	33.943	28.764	57.532	0.00	0.00
ATOM	7600	CE2	TYR	X	499	33.064	27.426	54.765	0.00	0.00
ATOM	7601	HE2	TYR	X	499	33.843	26.694	54.608	0.00	0.00
ATOM	7602	CD2	TYR	X	499	31.964	27.440	53.864	0.00	0.00
ATOM	7603	HD2	TYR	X	499	31.986	26.768	53.018	0.00	0.00
ATOM	7604	C	TYR	X	499	27.954	27.635	55.196	0.00	0.00
ATOM	7605	O	TYR	X	499	27.250	28.670	55.134	0.00	0.00
ATOM	7606	N	THR	X	500	28.209	27.053	56.276	0.00	0.00
ATOM	7607	H	THR	X	500	28.692	26.185	56.095	0.00	0.00
ATOM	7608	CA	THR	X	500	27.762	27.327	57.615	0.00	0.00
ATOM	7609	HA	THR	X	500	27.357	28.335	57.703	0.00	0.00
ATOM	7610	CB	THR	X	500	26.633	26.320	58.002	0.00	0.00
ATOM	7611	HB	THR	X	500	26.259	26.457	59.017	0.00	0.00
ATOM	7612	CG2	THR	X	500	25.368	26.399	57.171	0.00	0.00
ATOM	7613	HG21	THR	X	500	24.683	25.599	57.452	0.00	0.00
ATOM	7614	HG22	THR	X	500	25.507	26.292	56.095	0.00	0.00
ATOM	7615	HG23	THR	X	500	24.940	27.377	57.390	0.00	0.00
ATOM	7616	OG1	THR	X	500	27.185	25.037	57.844	0.00	0.00
ATOM	7617	HG1	THR	X	500	26.673	24.337	58.256	0.00	0.00
ATOM	7618	C	THR	X	500	28.936	27.229	58.540	0.00	0.00
ATOM	7619	O	THR	X	500	29.886	26.500	58.351	0.00	0.00
ATOM	7620	N	ALA	X	501	28.966	28.122	59.545	0.00	0.00
ATOM	7621	H	ALA	X	501	28.106	28.615	59.740	0.00	0.00
ATOM	7622	CA	ALA	X	501	30.007	28.027	60.496	0.00	0.00
ATOM	7623	HA	ALA	X	501	30.906	28.294	59.942	0.00	0.00
ATOM	7624	CB	ALA	X	501	29.841	29.242	61.462	0.00	0.00
ATOM	7625	HB1	ALA	X	501	30.065	30.132	60.873	0.00	0.00
ATOM	7626	HB2	ALA	X	501	30.621	29.219	62.223	0.00	0.00
ATOM	7627	HB3	ALA	X	501	28.912	29.304	62.029	0.00	0.00
ATOM	7628	C	ALA	X	501	30.231	26.731	61.251	0.00	0.00
ATOM	7629	O	ALA	X	501	31.348	26.469	61.733	0.00	0.00
ATOM	7630	N	GLY	X	502	29.180	25.877	61.481	0.00	0.00
ATOM	7631	H	GLY	X	502	28.337	26.204	61.032	0.00	0.00
ATOM	7632	CA	GLY	X	502	29.231	24.505	62.017	0.00	0.00
ATOM	7633	HA2	GLY	X	502	29.772	24.581	62.959	0.00	0.00
ATOM	7634	HA3	GLY	X	502	28.209	24.156	62.167	0.00	0.00
ATOM	7635	C	GLY	X	502	29.991	23.570	61.028	0.00	0.00
ATOM	7636	O	GLY	X	502	31.145	23.172	61.194	0.00	0.00
ATOM	7637	N	ALA	X	503	29.365	23.153	59.960	0.00	0.00
ATOM	7638	H	ALA	X	503	28.359	23.217	59.887	0.00	0.00
ATOM	7639	CA	ALA	X	503	29.929	22.120	59.066	0.00	0.00
ATOM	7640	HA	ALA	X	503	30.295	21.293	59.674	0.00	0.00
ATOM	7641	CB	ALA	X	503	28.772	21.492	58.283	0.00	0.00
ATOM	7642	HB1	ALA	X	503	28.351	22.205	57.574	0.00	0.00

ATOM	7643	HB2	ALA	X	503	27.987	20.968	58.829	0.00	0.00
ATOM	7644	HB3	ALA	X	503	29.192	20.689	57.678	0.00	0.00
ATOM	7645	C	ALA	X	503	31.020	22.629	58.140	0.00	0.00
ATOM	7646	O	ALA	X	503	31.929	21.922	57.809	0.00	0.00
ATOM	7647	N	GLN	X	504	30.879	23.887	57.729	0.00	0.00
ATOM	7648	H	GLN	X	504	29.998	24.268	58.043	0.00	0.00
ATOM	7649	CA	GLN	X	504	31.827	24.704	56.895	0.00	0.00
ATOM	7650	HA	GLN	X	504	31.310	25.638	56.673	0.00	0.00
ATOM	7651	CB	GLN	X	504	33.173	25.102	57.578	0.00	0.00
ATOM	7652	HB2	GLN	X	504	33.493	24.159	58.020	0.00	0.00
ATOM	7653	HB3	GLN	X	504	33.856	25.574	56.872	0.00	0.00
ATOM	7654	CG	GLN	X	504	33.024	26.037	58.699	0.00	0.00
ATOM	7655	HG2	GLN	X	504	32.616	26.994	58.374	0.00	0.00
ATOM	7656	HG3	GLN	X	504	32.288	25.644	59.400	0.00	0.00
ATOM	7657	CD	GLN	X	504	34.236	26.384	59.539	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.364	26.092	59.179	0.00	0.00
ATOM	7659	NE2	GLN	X	504	33.974	26.915	60.712	0.00	0.00
ATOM	7660	HE21	GLN	X	504	34.758	27.251	61.253	0.00	0.00
ATOM	7661	HE22	GLN	X	504	33.020	26.878	61.041	0.00	0.00
ATOM	7662	C	GLN	X	504	32.040	24.073	55.455	0.00	0.00
ATOM	7663	O	GLN	X	504	33.130	23.512	55.186	0.00	0.00
ATOM	7664	N	GLN	X	505	30.985	23.878	54.651	0.00	0.00
ATOM	7665	H	GLN	X	505	30.123	24.036	55.153	0.00	0.00
ATOM	7666	CA	GLN	X	505	31.020	23.132	53.398	0.00	0.00
ATOM	7667	HA	GLN	X	505	31.872	22.456	53.469	0.00	0.00
ATOM	7668	CB	GLN	X	505	29.754	22.235	53.316	0.00	0.00
ATOM	7669	HB2	GLN	X	505	28.908	22.869	53.048	0.00	0.00
ATOM	7670	HB3	GLN	X	505	29.958	21.545	52.497	0.00	0.00
ATOM	7671	CG	GLN	X	505	29.544	21.241	54.456	0.00	0.00
ATOM	7672	HG2	GLN	X	505	30.297	20.457	54.535	0.00	0.00
ATOM	7673	HG3	GLN	X	505	29.645	21.822	55.373	0.00	0.00
ATOM	7674	CD	GLN	X	505	28.210	20.603	54.458	0.00	0.00
ATOM	7675	OE1	GLN	X	505	28.081	19.486	54.011	0.00	0.00
ATOM	7676	NE2	GLN	X	505	27.131	21.308	54.710	0.00	0.00
ATOM	7677	HE21	GLN	X	505	26.266	20.792	54.788	0.00	0.00
ATOM	7678	HE22	GLN	X	505	27.279	22.262	55.009	0.00	0.00
ATOM	7679	C	GLN	X	505	31.399	23.883	52.162	0.00	0.00
ATOM	7680	O	GLN	X	505	30.818	24.909	51.806	0.00	0.00
ATOM	7681	N	TYR	X	506	32.397	23.375	51.422	0.00	0.00
ATOM	7682	H	TYR	X	506	32.899	22.534	51.669	0.00	0.00
ATOM	7683	CA	TYR	X	506	32.853	24.017	50.142	0.00	0.00
ATOM	7684	HA	TYR	X	506	32.113	24.662	49.668	0.00	0.00
ATOM	7685	CB	TYR	X	506	34.064	24.904	50.381	0.00	0.00
ATOM	7686	HB2	TYR	X	506	34.188	25.567	49.524	0.00	0.00
ATOM	7687	HB3	TYR	X	506	33.960	25.463	51.311	0.00	0.00
ATOM	7688	CG	TYR	X	506	35.307	24.114	50.620	0.00	0.00
ATOM	7689	CD1	TYR	X	506	35.691	23.717	51.943	0.00	0.00
ATOM	7690	HD1	TYR	X	506	35.061	24.092	52.736	0.00	0.00
ATOM	7691	CE1	TYR	X	506	36.867	22.958	52.108	0.00	0.00
ATOM	7692	HE1	TYR	X	506	37.118	22.601	53.096	0.00	0.00
ATOM	7693	CZ	TYR	X	506	37.685	22.677	51.020	0.00	0.00
ATOM	7694	OH	TYR	X	506	38.850	21.992	51.176	0.00	0.00
ATOM	7695	HH	TYR	X	506	38.863	21.493	51.997	0.00	0.00
ATOM	7696	CE2	TYR	X	506	37.322	23.047	49.694	0.00	0.00
ATOM	7697	HE2	TYR	X	506	37.954	22.718	48.882	0.00	0.00
ATOM	7698	CD2	TYR	X	506	36.132	23.769	49.541	0.00	0.00
ATOM	7699	HD2	TYR	X	506	35.919	24.215	48.580	0.00	0.00
ATOM	7700	C	TYR	X	506	33.175	22.995	49.076	0.00	0.00
ATOM	7701	O	TYR	X	506	33.594	21.842	49.277	0.00	0.00
ATOM	7702	N	VAL	X	507	32.995	23.307	47.829	0.00	0.00
ATOM	7703	H	VAL	X	507	32.559	24.175	47.550	0.00	0.00
ATOM	7704	CA	VAL	X	507	33.036	22.382	46.742	0.00	0.00
ATOM	7705	HA	VAL	X	507	32.906	21.390	47.174	0.00	0.00
ATOM	7706	CB	VAL	X	507	31.861	22.317	45.759	0.00	0.00
ATOM	7707	HB	VAL	X	507	31.988	21.423	45.149	0.00	0.00
ATOM	7708	CG1	VAL	X	507	30.659	21.982	46.586	0.00	0.00
ATOM	7709	HG11	VAL	X	507	29.736	22.344	46.133	0.00	0.00

ATOM	7710	HG12	VAL	X	507	30.617	20.893	46.577	0.00	0.00
ATOM	7711	HG13	VAL	X	507	30.688	22.327	47.619	0.00	0.00
ATOM	7712	CG2	VAL	X	507	31.655	23.625	44.980	0.00	0.00
ATOM	7713	HG21	VAL	X	507	32.491	23.877	44.328	0.00	0.00
ATOM	7714	HG22	VAL	X	507	31.312	24.482	45.560	0.00	0.00
ATOM	7715	HG23	VAL	X	507	30.780	23.358	44.387	0.00	0.00
ATOM	7716	C	VAL	X	507	34.392	22.260	45.994	0.00	0.00
ATOM	7717	O	VAL	X	507	35.097	23.270	45.818	0.00	0.00
ATOM	7718	N	SER	X	508	34.703	21.081	45.467	0.00	0.00
ATOM	7719	H	SER	X	508	34.184	20.273	45.779	0.00	0.00
ATOM	7720	CA	SER	X	508	35.898	20.940	44.611	0.00	0.00
ATOM	7721	HA	SER	X	508	36.530	21.828	44.620	0.00	0.00
ATOM	7722	CB	SER	X	508	36.809	19.873	45.220	0.00	0.00
ATOM	7723	HB2	SER	X	508	37.649	19.740	44.538	0.00	0.00
ATOM	7724	HB3	SER	X	508	37.248	20.178	46.170	0.00	0.00
ATOM	7725	OG	SER	X	508	36.258	18.596	45.484	0.00	0.00
ATOM	7726	HG	SER	X	508	35.564	18.688	46.140	0.00	0.00
ATOM	7727	C	SER	X	508	35.535	20.694	43.159	0.00	0.00
ATOM	7728	O	SER	X	508	34.783	19.769	42.820	0.00	0.00
ATOM	7729	N	LEU	X	509	35.968	21.730	42.310	0.00	0.00
ATOM	7730	H	LEU	X	509	36.612	22.432	42.645	0.00	0.00
ATOM	7731	CA	LEU	X	509	35.463	21.843	40.943	0.00	0.00
ATOM	7732	HA	LEU	X	509	34.547	21.255	40.998	0.00	0.00
ATOM	7733	CB	LEU	X	509	35.130	23.269	40.518	0.00	0.00
ATOM	7734	HB2	LEU	X	509	36.062	23.835	40.514	0.00	0.00
ATOM	7735	HB3	LEU	X	509	34.760	23.229	39.494	0.00	0.00
ATOM	7736	CG	LEU	X	509	34.059	24.052	41.303	0.00	0.00
ATOM	7737	HG	LEU	X	509	34.438	24.171	42.318	0.00	0.00
ATOM	7738	CD1	LEU	X	509	33.815	25.417	40.608	0.00	0.00
ATOM	7739	HD11	LEU	X	509	34.183	25.495	39.585	0.00	0.00
ATOM	7740	HD12	LEU	X	509	34.277	26.198	41.212	0.00	0.00
ATOM	7741	HD13	LEU	X	509	32.780	25.671	40.376	0.00	0.00
ATOM	7742	CD2	LEU	X	509	32.745	23.237	41.402	0.00	0.00
ATOM	7743	HD21	LEU	X	509	32.806	22.410	42.109	0.00	0.00
ATOM	7744	HD22	LEU	X	509	31.898	23.846	41.718	0.00	0.00
ATOM	7745	HD23	LEU	X	509	32.488	22.732	40.471	0.00	0.00
ATOM	7746	C	LEU	X	509	36.450	21.130	39.936	0.00	0.00
ATOM	7747	O	LEU	X	509	37.423	21.696	39.413	0.00	0.00
ATOM	7748	N	ASP	X	510	36.087	19.861	39.649	0.00	0.00
ATOM	7749	H	ASP	X	510	35.330	19.412	40.145	0.00	0.00
ATOM	7750	CA	ASP	X	510	36.645	18.871	38.662	0.00	0.00
ATOM	7751	HA	ASP	X	510	37.451	19.344	38.102	0.00	0.00
ATOM	7752	CB	ASP	X	510	37.259	17.783	39.455	0.00	0.00
ATOM	7753	HB2	ASP	X	510	38.085	18.286	39.958	0.00	0.00
ATOM	7754	HB3	ASP	X	510	36.493	17.477	40.168	0.00	0.00
ATOM	7755	CG	ASP	X	510	37.790	16.602	38.570	0.00	0.00
ATOM	7756	OD1	ASP	X	510	37.395	15.429	38.867	0.00	0.00
ATOM	7757	OD2	ASP	X	510	38.619	16.849	37.739	0.00	0.00
ATOM	7758	C	ASP	X	510	35.603	18.382	37.693	0.00	0.00
ATOM	7759	O	ASP	X	510	34.357	18.515	37.936	0.00	0.00
ATOM	7760	N	LEU	X	511	36.079	17.793	36.578	0.00	0.00
ATOM	7761	H	LEU	X	511	37.083	17.715	36.511	0.00	0.00
ATOM	7762	CA	LEU	X	511	35.325	17.240	35.471	0.00	0.00
ATOM	7763	HA	LEU	X	511	34.816	18.042	34.937	0.00	0.00
ATOM	7764	CB	LEU	X	511	36.329	16.479	34.478	0.00	0.00
ATOM	7765	HB2	LEU	X	511	36.709	15.598	34.996	0.00	0.00
ATOM	7766	HB3	LEU	X	511	35.748	16.027	33.674	0.00	0.00
ATOM	7767	CG	LEU	X	511	37.419	17.380	33.847	0.00	0.00
ATOM	7768	HG	LEU	X	511	38.066	17.742	34.646	0.00	0.00
ATOM	7769	CD1	LEU	X	511	38.163	16.381	32.914	0.00	0.00
ATOM	7770	HD11	LEU	X	511	37.516	15.989	32.129	0.00	0.00
ATOM	7771	HD12	LEU	X	511	38.562	15.546	33.491	0.00	0.00
ATOM	7772	HD13	LEU	X	511	38.932	16.887	32.330	0.00	0.00
ATOM	7773	CD2	LEU	X	511	36.761	18.572	33.135	0.00	0.00
ATOM	7774	HD21	LEU	X	511	36.425	19.199	33.961	0.00	0.00
ATOM	7775	HD22	LEU	X	511	37.526	19.146	32.611	0.00	0.00
ATOM	7776	HD23	LEU	X	511	36.063	18.356	32.327	0.00	0.00

ATOM	7777	C	LEU	X	511	34.227	16.235	35.925	0.00	0.00
ATOM	7778	O	LEU	X	511	33.245	16.068	35.135	0.00	0.00
ATOM	7779	N	ARG	X	512	34.455	15.656	37.159	0.00	0.00
ATOM	7780	H	ARG	X	512	35.308	15.726	37.696	0.00	0.00
ATOM	7781	CA	ARG	X	512	33.586	14.607	37.812	0.00	0.00
ATOM	7782	HA	ARG	X	512	33.007	14.102	37.039	0.00	0.00
ATOM	7783	CB	ARG	X	512	34.367	13.608	38.599	0.00	0.00
ATOM	7784	HB2	ARG	X	512	34.847	14.207	39.373	0.00	0.00
ATOM	7785	HB3	ARG	X	512	33.674	12.877	39.014	0.00	0.00
ATOM	7786	CG	ARG	X	512	35.497	12.948	37.775	0.00	0.00
ATOM	7787	HG2	ARG	X	512	35.020	12.319	37.024	0.00	0.00
ATOM	7788	HG3	ARG	X	512	36.145	13.766	37.458	0.00	0.00
ATOM	7789	CD	ARG	X	512	36.426	12.041	38.711	0.00	0.00
ATOM	7790	HD2	ARG	X	512	36.962	12.714	39.380	0.00	0.00
ATOM	7791	HD3	ARG	X	512	35.897	11.222	39.198	0.00	0.00
ATOM	7792	NE	ARG	X	512	37.430	11.572	37.822	0.00	0.00
ATOM	7793	HE	ARG	X	512	37.235	10.647	37.469	0.00	0.00
ATOM	7794	CZ	ARG	X	512	38.463	12.200	37.353	0.00	0.00
ATOM	7795	NH1	ARG	X	512	38.775	13.462	37.649	0.00	0.00
ATOM	7796	HH11	ARG	X	512	38.059	13.955	38.164	0.00	0.00
ATOM	7797	HH12	ARG	X	512	39.691	13.807	37.401	0.00	0.00
ATOM	7798	NH2	ARG	X	512	39.222	11.579	36.433	0.00	0.00
ATOM	7799	HH21	ARG	X	512	39.231	10.573	36.335	0.00	0.00
ATOM	7800	HH22	ARG	X	512	39.896	12.118	35.908	0.00	0.00
ATOM	7801	C	ARG	X	512	32.530	15.351	38.588	0.00	0.00
ATOM	7802	O	ARG	X	512	32.741	16.571	38.940	0.00	0.00
ATOM	7803	N	PRO	X	513	31.448	14.633	38.916	0.00	0.00
ATOM	7804	CD	PRO	X	513	30.867	13.327	38.451	0.00	0.00
ATOM	7805	HD2	PRO	X	513	31.178	12.535	39.133	0.00	0.00
ATOM	7806	HD3	PRO	X	513	31.138	13.011	37.443	0.00	0.00
ATOM	7807	CG	PRO	X	513	29.358	13.511	38.544	0.00	0.00
ATOM	7808	HG2	PRO	X	513	28.923	12.516	38.637	0.00	0.00
ATOM	7809	HG3	PRO	X	513	28.881	13.893	37.641	0.00	0.00
ATOM	7810	CB	PRO	X	513	29.214	14.405	39.820	0.00	0.00
ATOM	7811	HB2	PRO	X	513	29.289	13.714	40.660	0.00	0.00
ATOM	7812	HB3	PRO	X	513	28.283	14.972	39.822	0.00	0.00
ATOM	7813	CA	PRO	X	513	30.394	15.299	39.718	0.00	0.00
ATOM	7814	HA	PRO	X	513	30.130	16.281	39.326	0.00	0.00
ATOM	7815	C	PRO	X	513	30.939	15.712	41.135	0.00	0.00
ATOM	7816	O	PRO	X	513	31.957	15.210	41.523	0.00	0.00
ATOM	7817	N	LEU	X	514	30.216	16.528	41.876	0.00	0.00
ATOM	7818	H	LEU	X	514	29.284	16.657	41.507	0.00	0.00
ATOM	7819	CA	LEU	X	514	30.783	17.360	42.866	0.00	0.00
ATOM	7820	HA	LEU	X	514	31.631	17.868	42.408	0.00	0.00
ATOM	7821	CB	LEU	X	514	29.740	18.374	43.363	0.00	0.00
ATOM	7822	HB2	LEU	X	514	28.853	17.881	43.760	0.00	0.00
ATOM	7823	HB3	LEU	X	514	30.210	18.886	44.202	0.00	0.00
ATOM	7824	CG	LEU	X	514	29.205	19.467	42.419	0.00	0.00
ATOM	7825	HG	LEU	X	514	28.822	19.013	41.505	0.00	0.00
ATOM	7826	CD1	LEU	X	514	28.032	20.186	43.057	0.00	0.00
ATOM	7827	HD11	LEU	X	514	28.426	20.973	43.701	0.00	0.00
ATOM	7828	HD12	LEU	X	514	27.313	19.469	43.452	0.00	0.00
ATOM	7829	HD13	LEU	X	514	27.436	20.710	42.309	0.00	0.00
ATOM	7830	CD2	LEU	X	514	30.289	20.491	42.119	0.00	0.00
ATOM	7831	HD21	LEU	X	514	29.919	21.467	41.802	0.00	0.00
ATOM	7832	HD22	LEU	X	514	30.926	20.696	42.979	0.00	0.00
ATOM	7833	HD23	LEU	X	514	31.066	20.073	41.479	0.00	0.00
ATOM	7834	C	LEU	X	514	31.294	16.570	44.093	0.00	0.00
ATOM	7835	O	LEU	X	514	30.481	15.964	44.857	0.00	0.00
ATOM	7836	N	GLU	X	515	32.625	16.526	44.321	0.00	0.00
ATOM	7837	H	GLU	X	515	33.152	17.041	43.631	0.00	0.00
ATOM	7838	CA	GLU	X	515	33.246	16.314	45.668	0.00	0.00
ATOM	7839	HA	GLU	X	515	32.622	15.487	46.009	0.00	0.00
ATOM	7840	CB	GLU	X	515	34.649	15.628	45.646	0.00	0.00
ATOM	7841	HB2	GLU	X	515	34.524	14.646	45.190	0.00	0.00
ATOM	7842	HB3	GLU	X	515	35.280	16.258	45.019	0.00	0.00
ATOM	7843	CG	GLU	X	515	35.236	15.570	47.079	0.00	0.00

ATOM	7844	HG2	GLU	X	515	35.305	16.614	47.385	0.00	0.00
ATOM	7845	HG3	GLU	X	515	34.597	14.984	47.739	0.00	0.00
ATOM	7846	CD	GLU	X	515	36.731	15.038	47.014	0.00	0.00
ATOM	7847	OE1	GLU	X	515	37.637	15.874	47.062	0.00	0.00
ATOM	7848	OE2	GLU	X	515	36.938	13.820	47.103	0.00	0.00
ATOM	7849	C	GLU	X	515	33.081	17.467	46.694	0.00	0.00
ATOM	7850	O	GLU	X	515	33.735	18.493	46.544	0.00	0.00
ATOM	7851	N	VAL	X	516	32.377	17.235	47.825	0.00	0.00
ATOM	7852	H	VAL	X	516	32.142	16.290	48.091	0.00	0.00
ATOM	7853	CA	VAL	X	516	32.130	18.195	48.903	0.00	0.00
ATOM	7854	HA	VAL	X	516	32.208	19.229	48.567	0.00	0.00
ATOM	7855	CB	VAL	X	516	30.713	18.024	49.628	0.00	0.00
ATOM	7856	HB	VAL	X	516	30.529	17.031	50.038	0.00	0.00
ATOM	7857	CG1	VAL	X	516	30.532	19.000	50.738	0.00	0.00
ATOM	7858	HG11	VAL	X	516	29.490	19.091	51.045	0.00	0.00
ATOM	7859	HG12	VAL	X	516	31.122	18.730	51.614	0.00	0.00
ATOM	7860	HG13	VAL	X	516	30.812	20.002	50.413	0.00	0.00
ATOM	7861	CG2	VAL	X	516	29.521	18.203	48.673	0.00	0.00
ATOM	7862	HG21	VAL	X	516	28.696	17.918	49.325	0.00	0.00
ATOM	7863	HG22	VAL	X	516	29.524	17.404	47.931	0.00	0.00
ATOM	7864	HG23	VAL	X	516	29.508	19.166	48.162	0.00	0.00
ATOM	7865	C	VAL	X	516	33.229	18.025	49.937	0.00	0.00
ATOM	7866	O	VAL	X	516	33.532	16.887	50.275	0.00	0.00
ATOM	7867	N	ARG	X	517	33.791	19.132	50.473	0.00	0.00
ATOM	7868	H	ARG	X	517	33.432	20.031	50.186	0.00	0.00
ATOM	7869	CA	ARG	X	517	34.832	19.166	51.495	0.00	0.00
ATOM	7870	HA	ARG	X	517	34.884	18.149	51.883	0.00	0.00
ATOM	7871	CB	ARG	X	517	36.176	19.620	50.938	0.00	0.00
ATOM	7872	HB2	ARG	X	517	36.039	20.615	50.513	0.00	0.00
ATOM	7873	HB3	ARG	X	517	36.767	19.617	51.854	0.00	0.00
ATOM	7874	CG	ARG	X	517	36.748	18.823	49.790	0.00	0.00
ATOM	7875	HG2	ARG	X	517	36.971	17.827	50.174	0.00	0.00
ATOM	7876	HG3	ARG	X	517	36.012	18.727	48.993	0.00	0.00
ATOM	7877	CD	ARG	X	517	38.092	19.361	49.271	0.00	0.00
ATOM	7878	HD2	ARG	X	517	37.903	20.283	48.722	0.00	0.00
ATOM	7879	HD3	ARG	X	517	38.845	19.445	50.054	0.00	0.00
ATOM	7880	NE	ARG	X	517	38.662	18.406	48.360	0.00	0.00
ATOM	7881	HE	ARG	X	517	38.166	17.527	48.323	0.00	0.00
ATOM	7882	CZ	ARG	X	517	39.448	18.631	47.313	0.00	0.00
ATOM	7883	NH1	ARG	X	517	40.205	19.712	47.327	0.00	0.00
ATOM	7884	HH11	ARG	X	517	40.075	20.457	47.996	0.00	0.00
ATOM	7885	HH12	ARG	X	517	40.863	19.843	46.572	0.00	0.00
ATOM	7886	NH2	ARG	X	517	39.746	17.725	46.416	0.00	0.00
ATOM	7887	HH21	ARG	X	517	39.256	16.848	46.525	0.00	0.00
ATOM	7888	HH22	ARG	X	517	39.968	18.056	45.488	0.00	0.00
ATOM	7889	C	ARG	X	517	34.500	20.046	52.655	0.00	0.00
ATOM	7890	O	ARG	X	517	34.002	21.139	52.434	0.00	0.00
ATOM	7891	N	ARG	X	518	34.792	19.708	53.948	0.00	0.00
ATOM	7892	H	ARG	X	518	35.223	18.805	54.086	0.00	0.00
ATOM	7893	CA	ARG	X	518	34.412	20.487	55.114	0.00	0.00
ATOM	7894	HA	ARG	X	518	33.600	21.116	54.749	0.00	0.00
ATOM	7895	CB	ARG	X	518	33.897	19.649	56.287	0.00	0.00
ATOM	7896	HB2	ARG	X	518	34.487	18.736	56.359	0.00	0.00
ATOM	7897	HB3	ARG	X	518	33.925	20.193	57.231	0.00	0.00
ATOM	7898	CG	ARG	X	518	32.439	19.257	56.039	0.00	0.00
ATOM	7899	HG2	ARG	X	518	31.791	20.112	56.228	0.00	0.00
ATOM	7900	HG3	ARG	X	518	32.241	19.121	54.976	0.00	0.00
ATOM	7901	CD	ARG	X	518	31.970	18.049	56.842	0.00	0.00
ATOM	7902	HD2	ARG	X	518	32.764	17.319	56.687	0.00	0.00
ATOM	7903	HD3	ARG	X	518	31.764	18.405	57.852	0.00	0.00
ATOM	7904	NE	ARG	X	518	30.772	17.439	56.267	0.00	0.00
ATOM	7905	HE	ARG	X	518	29.924	17.846	56.636	0.00	0.00
ATOM	7906	CZ	ARG	X	518	30.569	16.625	55.260	0.00	0.00
ATOM	7907	NH1	ARG	X	518	31.445	15.982	54.540	0.00	0.00
ATOM	7908	HH11	ARG	X	518	32.410	15.847	54.806	0.00	0.00
ATOM	7909	HH12	ARG	X	518	31.068	15.782	53.625	0.00	0.00
ATOM	7910	NH2	ARG	X	518	29.343	16.425	54.924	0.00	0.00

ATOM	7911	HH21	ARG	X	518	28.595	16.783	55.501	0.00	0.00
ATOM	7912	HH22	ARG	X	518	29.116	15.908	54.087	0.00	0.00
ATOM	7913	C	ARG	X	518	35.645	21.343	55.533	0.00	0.00
ATOM	7914	O	ARG	X	518	36.830	20.967	55.331	0.00	0.00
ATOM	7915	N	GLY	X	519	35.427	22.485	56.215	0.00	0.00
ATOM	7916	H	GLY	X	519	34.491	22.861	56.174	0.00	0.00
ATOM	7917	CA	GLY	X	519	36.454	23.100	56.981	0.00	0.00
ATOM	7918	HA2	GLY	X	519	35.879	23.683	57.700	0.00	0.00
ATOM	7919	HA3	GLY	X	519	37.042	22.366	57.531	0.00	0.00
ATOM	7920	C	GLY	X	519	37.421	24.076	56.373	0.00	0.00
ATOM	7921	O	GLY	X	519	38.520	24.281	56.939	0.00	0.00
ATOM	7922	N	LEU	X	520	37.061	24.681	55.254	0.00	0.00
ATOM	7923	H	LEU	X	520	36.172	24.438	54.842	0.00	0.00
ATOM	7924	CA	LEU	X	520	37.849	25.603	54.405	0.00	0.00
ATOM	7925	HA	LEU	X	520	38.234	25.035	53.558	0.00	0.00
ATOM	7926	CB	LEU	X	520	36.806	26.617	53.831	0.00	0.00
ATOM	7927	HB2	LEU	X	520	35.981	26.037	53.417	0.00	0.00
ATOM	7928	HB3	LEU	X	520	36.383	27.221	54.634	0.00	0.00
ATOM	7929	CG	LEU	X	520	37.290	27.597	52.788	0.00	0.00
ATOM	7930	HG	LEU	X	520	37.931	28.272	53.355	0.00	0.00
ATOM	7931	CD1	LEU	X	520	37.965	26.939	51.538	0.00	0.00
ATOM	7932	HD11	LEU	X	520	38.874	26.417	51.837	0.00	0.00
ATOM	7933	HD12	LEU	X	520	38.377	27.719	50.899	0.00	0.00
ATOM	7934	HD13	LEU	X	520	37.249	26.460	50.869	0.00	0.00
ATOM	7935	CD2	LEU	X	520	36.079	28.433	52.407	0.00	0.00
ATOM	7936	HD21	LEU	X	520	35.551	28.876	53.252	0.00	0.00
ATOM	7937	HD22	LEU	X	520	36.422	29.265	51.792	0.00	0.00
ATOM	7938	HD23	LEU	X	520	35.380	27.906	51.757	0.00	0.00
ATOM	7939	C	LEU	X	520	39.110	26.240	55.114	0.00	0.00
ATOM	7940	O	LEU	X	520	39.030	27.284	55.752	0.00	0.00
ATOM	7941	N	ARG	X	521	40.273	25.635	54.882	0.00	0.00
ATOM	7942	H	ARG	X	521	40.205	24.697	54.514	0.00	0.00
ATOM	7943	CA	ARG	X	521	41.623	26.170	55.184	0.00	0.00
ATOM	7944	HA	ARG	X	521	42.357	25.377	55.044	0.00	0.00
ATOM	7945	CB	ARG	X	521	41.918	27.329	54.233	0.00	0.00
ATOM	7946	HB2	ARG	X	521	41.244	27.289	53.377	0.00	0.00
ATOM	7947	HB3	ARG	X	521	41.427	28.193	54.681	0.00	0.00
ATOM	7948	CG	ARG	X	521	43.364	27.569	53.856	0.00	0.00
ATOM	7949	HG2	ARG	X	521	43.466	28.485	53.274	0.00	0.00
ATOM	7950	HG3	ARG	X	521	44.048	27.624	54.704	0.00	0.00
ATOM	7951	CD	ARG	X	521	43.919	26.430	52.947	0.00	0.00
ATOM	7952	HD2	ARG	X	521	44.171	25.494	53.445	0.00	0.00
ATOM	7953	HD3	ARG	X	521	43.168	26.173	52.199	0.00	0.00
ATOM	7954	NE	ARG	X	521	44.995	26.981	52.118	0.00	0.00
ATOM	7955	HE	ARG	X	521	45.066	27.983	52.010	0.00	0.00
ATOM	7956	CZ	ARG	X	521	45.646	26.258	51.225	0.00	0.00
ATOM	7957	NH1	ARG	X	521	45.691	24.919	51.288	0.00	0.00
ATOM	7958	HH11	ARG	X	521	45.112	24.413	51.942	0.00	0.00
ATOM	7959	HH12	ARG	X	521	46.340	24.380	50.732	0.00	0.00
ATOM	7960	NH2	ARG	X	521	46.238	26.936	50.274	0.00	0.00
ATOM	7961	HH21	ARG	X	521	46.256	27.938	50.147	0.00	0.00
ATOM	7962	HH22	ARG	X	521	46.759	26.382	49.610	0.00	0.00
ATOM	7963	C	ARG	X	521	41.857	26.516	56.634	0.00	0.00
ATOM	7964	O	ARG	X	521	42.864	27.112	56.972	0.00	0.00
ATOM	7965	N	ALA	X	522	40.940	26.191	57.572	0.00	0.00
ATOM	7966	H	ALA	X	522	40.171	25.644	57.213	0.00	0.00
ATOM	7967	CA	ALA	X	522	40.898	26.709	58.954	0.00	0.00
ATOM	7968	HA	ALA	X	522	41.029	27.783	58.818	0.00	0.00
ATOM	7969	CB	ALA	X	522	39.478	26.356	59.479	0.00	0.00
ATOM	7970	HB1	ALA	X	522	38.770	26.505	58.665	0.00	0.00
ATOM	7971	HB2	ALA	X	522	39.219	26.910	60.382	0.00	0.00
ATOM	7972	HB3	ALA	X	522	39.287	25.295	59.635	0.00	0.00
ATOM	7973	C	ALA	X	522	42.019	26.162	59.894	0.00	0.00
ATOM	7974	O	ALA	X	522	42.557	26.957	60.708	0.00	0.00
ATOM	7975	N	GLN	X	523	42.524	24.965	59.743	0.00	0.00
ATOM	7976	H	GLN	X	523	42.068	24.313	59.120	0.00	0.00
ATOM	7977	CA	GLN	X	523	43.806	24.446	60.280	0.00	0.00

ATOM	7978	HA	GLN	X	523	43.695	24.542	61.360	0.00	0.00
ATOM	7979	CB	GLN	X	523	43.954	22.948	60.005	0.00	0.00
ATOM	7980	HB2	GLN	X	523	44.236	22.868	58.955	0.00	0.00
ATOM	7981	HB3	GLN	X	523	44.802	22.566	60.572	0.00	0.00
ATOM	7982	CG	GLN	X	523	42.740	22.101	60.381	0.00	0.00
ATOM	7983	HG2	GLN	X	523	42.425	22.244	61.415	0.00	0.00
ATOM	7984	HG3	GLN	X	523	41.942	22.502	59.755	0.00	0.00
ATOM	7985	CD	GLN	X	523	42.972	20.624	60.016	0.00	0.00
ATOM	7986	OE1	GLN	X	523	43.953	20.161	59.384	0.00	0.00
ATOM	7987	NE2	GLN	X	523	42.122	19.753	60.504	0.00	0.00
ATOM	7988	HE21	GLN	X	523	42.290	18.769	60.355	0.00	0.00
ATOM	7989	HE22	GLN	X	523	41.255	20.005	60.955	0.00	0.00
ATOM	7990	C	GLN	X	523	45.063	25.203	59.788	0.00	0.00
ATOM	7991	O	GLN	X	523	46.189	24.835	60.159	0.00	0.00
ATOM	7992	N	ALA	X	524	44.907	26.312	59.035	0.00	0.00
ATOM	7993	H	ALA	X	524	44.019	26.540	58.612	0.00	0.00
ATOM	7994	CA	ALA	X	524	46.047	27.208	58.768	0.00	0.00
ATOM	7995	HA	ALA	X	524	46.959	26.877	59.263	0.00	0.00
ATOM	7996	CB	ALA	X	524	46.428	27.067	57.326	0.00	0.00
ATOM	7997	HB1	ALA	X	524	47.335	27.616	57.073	0.00	0.00
ATOM	7998	HB2	ALA	X	524	45.635	27.485	56.705	0.00	0.00
ATOM	7999	HB3	ALA	X	524	46.606	26.005	57.159	0.00	0.00
ATOM	8000	C	ALA	X	524	45.650	28.688	59.111	0.00	0.00
ATOM	8001	O	ALA	X	524	46.484	29.451	59.613	0.00	0.00
ATOM	8002	N	CYX	X	525	44.395	29.110	58.930	0.00	0.00
ATOM	8003	H	CYX	X	525	43.736	28.427	58.585	0.00	0.00
ATOM	8004	CA	CYX	X	525	43.903	30.504	59.042	0.00	0.00
ATOM	8005	HA	CYX	X	525	44.651	31.225	58.714	0.00	0.00
ATOM	8006	CB	CYX	X	525	42.551	30.609	58.310	0.00	0.00
ATOM	8007	HB2	CYX	X	525	41.743	29.951	58.626	0.00	0.00
ATOM	8008	HB3	CYX	X	525	42.196	31.630	58.454	0.00	0.00
ATOM	8009	SG	CYX	X	525	42.714	30.435	56.523	0.00	0.00
ATOM	8010	C	CYX	X	525	43.717	30.973	60.454	0.00	0.00
ATOM	8011	O	CYX	X	525	43.616	32.215	60.711	0.00	0.00
ATOM	8012	N	ALA	X	526	43.597	30.089	61.464	0.00	0.00
ATOM	8013	H	ALA	X	526	43.380	29.139	61.199	0.00	0.00
ATOM	8014	CA	ALA	X	526	43.443	30.482	62.905	0.00	0.00
ATOM	8015	HA	ALA	X	526	42.507	31.037	62.965	0.00	0.00
ATOM	8016	CB	ALA	X	526	43.280	29.226	63.699	0.00	0.00
ATOM	8017	HB1	ALA	X	526	42.476	28.617	63.289	0.00	0.00
ATOM	8018	HB2	ALA	X	526	43.001	29.504	64.716	0.00	0.00
ATOM	8019	HB3	ALA	X	526	44.217	28.671	63.744	0.00	0.00
ATOM	8020	C	ALA	X	526	44.666	31.321	63.365	0.00	0.00
ATOM	8021	O	ALA	X	526	44.588	32.218	64.128	0.00	0.00
ATOM	8022	N	PHE	X	527	45.841	31.028	62.793	0.00	0.00
ATOM	8023	H	PHE	X	527	45.864	30.116	62.360	0.00	0.00
ATOM	8024	CA	PHE	X	527	46.995	31.881	62.949	0.00	0.00
ATOM	8025	HA	PHE	X	527	47.274	31.861	64.003	0.00	0.00
ATOM	8026	CB	PHE	X	527	48.120	31.289	62.104	0.00	0.00
ATOM	8027	HB2	PHE	X	527	48.230	30.257	62.435	0.00	0.00
ATOM	8028	HB3	PHE	X	527	47.897	31.239	61.039	0.00	0.00
ATOM	8029	CG	PHE	X	527	49.507	31.923	62.405	0.00	0.00
ATOM	8030	CD1	PHE	X	527	50.150	31.666	63.601	0.00	0.00
ATOM	8031	HD1	PHE	X	527	49.635	31.044	64.318	0.00	0.00
ATOM	8032	CE1	PHE	X	527	51.419	32.178	63.801	0.00	0.00
ATOM	8033	HE1	PHE	X	527	51.820	31.893	64.762	0.00	0.00
ATOM	8034	CZ	PHE	X	527	51.977	33.064	62.866	0.00	0.00
ATOM	8035	HZ	PHE	X	527	52.920	33.545	63.080	0.00	0.00
ATOM	8036	CE2	PHE	X	527	51.334	33.296	61.661	0.00	0.00
ATOM	8037	HE2	PHE	X	527	51.642	34.058	60.960	0.00	0.00
ATOM	8038	CD2	PHE	X	527	50.107	32.675	61.437	0.00	0.00
ATOM	8039	HD2	PHE	X	527	49.620	32.810	60.482	0.00	0.00
ATOM	8040	C	PHE	X	527	46.690	33.240	62.487	0.00	0.00
ATOM	8041	O	PHE	X	527	46.744	34.162	63.296	0.00	0.00
ATOM	8042	N	TRP	X	528	46.410	33.491	61.199	0.00	0.00
ATOM	8043	H	TRP	X	528	46.539	32.664	60.634	0.00	0.00
ATOM	8044	CA	TRP	X	528	46.130	34.825	60.570	0.00	0.00

ATOM	8045	HA	TRP	X	528	47.028	35.419	60.735	0.00	0.00
ATOM	8046	CB	TRP	X	528	45.997	34.636	59.035	0.00	0.00
ATOM	8047	HB2	TRP	X	528	45.051	34.148	58.797	0.00	0.00
ATOM	8048	HB3	TRP	X	528	45.922	35.622	58.577	0.00	0.00
ATOM	8049	CG	TRP	X	528	47.128	33.880	58.367	0.00	0.00
ATOM	8050	CD1	TRP	X	528	47.105	32.702	57.685	0.00	0.00
ATOM	8051	HD1	TRP	X	528	46.304	32.044	57.382	0.00	0.00
ATOM	8052	NE1	TRP	X	528	48.346	32.402	57.292	0.00	0.00
ATOM	8053	HE1	TRP	X	528	48.565	31.553	56.790	0.00	0.00
ATOM	8054	CE2	TRP	X	528	49.263	33.343	57.541	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	50.644	33.391	57.334	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	51.181	32.564	56.894	0.00	0.00
ATOM	8057	CH2	TRP	X	528	51.300	34.581	57.749	0.00	0.00
ATOM	8058	HH2	TRP	X	528	52.365	34.618	57.576	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	50.597	35.579	58.484	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	51.053	36.428	58.972	0.00	0.00
ATOM	8061	CE3	TRP	X	528	49.234	35.476	58.669	0.00	0.00
ATOM	8062	HE3	TRP	X	528	48.780	36.180	59.350	0.00	0.00
ATOM	8063	CD2	TRP	X	528	48.531	34.337	58.266	0.00	0.00
ATOM	8064	C	TRP	X	528	44.933	35.636	61.081	0.00	0.00
ATOM	8065	O	TRP	X	528	45.075	36.874	61.118	0.00	0.00
ATOM	8066	N	ASN	X	529	43.869	35.001	61.552	0.00	0.00
ATOM	8067	H	ASN	X	529	43.841	34.000	61.422	0.00	0.00
ATOM	8068	CA	ASN	X	529	42.618	35.629	61.938	0.00	0.00
ATOM	8069	HA	ASN	X	529	42.389	36.492	61.312	0.00	0.00
ATOM	8070	CB	ASN	X	529	41.372	34.699	61.747	0.00	0.00
ATOM	8071	HB2	ASN	X	529	41.565	33.754	62.254	0.00	0.00
ATOM	8072	HB3	ASN	X	529	40.542	35.152	62.288	0.00	0.00
ATOM	8073	CG	ASN	X	529	41.013	34.413	60.280	0.00	0.00
ATOM	8074	OD1	ASN	X	529	41.391	35.110	59.375	0.00	0.00
ATOM	8075	ND2	ASN	X	529	40.289	33.372	59.974	0.00	0.00
ATOM	8076	HD21	ASN	X	529	40.046	33.130	59.024	0.00	0.00
ATOM	8077	HD22	ASN	X	529	39.935	32.817	60.740	0.00	0.00
ATOM	8078	C	ASN	X	529	42.696	36.164	63.421	0.00	0.00
ATOM	8079	O	ASN	X	529	42.178	37.203	63.817	0.00	0.00
ATOM	8080	N	ARG	X	530	43.502	35.492	64.262	0.00	0.00
ATOM	8081	H	ARG	X	530	43.988	34.667	63.941	0.00	0.00
ATOM	8082	CA	ARG	X	530	43.554	35.826	65.757	0.00	0.00
ATOM	8083	HA	ARG	X	530	43.043	36.771	65.940	0.00	0.00
ATOM	8084	CB	ARG	X	530	42.682	34.730	66.456	0.00	0.00
ATOM	8085	HB2	ARG	X	530	43.119	33.732	66.491	0.00	0.00
ATOM	8086	HB3	ARG	X	530	42.746	35.020	67.505	0.00	0.00
ATOM	8087	CG	ARG	X	530	41.273	34.514	65.812	0.00	0.00
ATOM	8088	HG2	ARG	X	530	40.751	35.448	65.606	0.00	0.00
ATOM	8089	HG3	ARG	X	530	41.414	34.080	64.822	0.00	0.00
ATOM	8090	CD	ARG	X	530	40.389	33.586	66.655	0.00	0.00
ATOM	8091	HD2	ARG	X	530	40.087	34.049	67.595	0.00	0.00
ATOM	8092	HD3	ARG	X	530	39.500	33.557	66.025	0.00	0.00
ATOM	8093	NE	ARG	X	530	41.014	32.262	66.857	0.00	0.00
ATOM	8094	HE	ARG	X	530	42.020	32.262	66.945	0.00	0.00
ATOM	8095	CZ	ARG	X	530	40.370	31.163	66.735	0.00	0.00
ATOM	8096	NH1	ARG	X	530	39.087	31.178	66.506	0.00	0.00
ATOM	8097	HH11	ARG	X	530	38.544	32.021	66.626	0.00	0.00
ATOM	8098	HH12	ARG	X	530	38.480	30.371	66.485	0.00	0.00
ATOM	8099	NH2	ARG	X	530	41.188	30.124	66.658	0.00	0.00
ATOM	8100	HH21	ARG	X	530	42.121	30.272	67.015	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.005	29.305	66.096	0.00	0.00
ATOM	8102	C	ARG	X	530	44.949	36.006	66.321	0.00	0.00
ATOM	8103	O	ARG	X	530	45.325	37.019	66.845	0.00	0.00
ATOM	8104	N	PHE	X	531	45.682	34.891	66.418	0.00	0.00
ATOM	8105	H	PHE	X	531	45.237	34.082	66.008	0.00	0.00
ATOM	8106	CA	PHE	X	531	46.996	34.797	67.219	0.00	0.00
ATOM	8107	HA	PHE	X	531	46.724	35.156	68.212	0.00	0.00
ATOM	8108	CB	PHE	X	531	47.450	33.344	67.222	0.00	0.00
ATOM	8109	HB2	PHE	X	531	46.719	32.658	67.651	0.00	0.00
ATOM	8110	HB3	PHE	X	531	47.612	33.037	66.188	0.00	0.00
ATOM	8111	CG	PHE	X	531	48.766	33.117	67.963	0.00	0.00

ATOM	8112	CD1	PHE	X	531	49.857	32.707	67.263	0.00	0.00
ATOM	8113	HD1	PHE	X	531	49.766	32.658	66.188	0.00	0.00
ATOM	8114	CE1	PHE	X	531	51.112	32.589	67.945	0.00	0.00
ATOM	8115	HE1	PHE	X	531	52.009	32.364	67.387	0.00	0.00
ATOM	8116	CZ	PHE	X	531	51.205	32.841	69.303	0.00	0.00
ATOM	8117	HZ	PHE	X	531	52.183	32.888	69.757	0.00	0.00
ATOM	8118	CE2	PHE	X	531	50.007	33.050	70.065	0.00	0.00
ATOM	8119	HE2	PHE	X	531	49.924	33.273	71.119	0.00	0.00
ATOM	8120	CD2	PHE	X	531	48.756	33.185	69.371	0.00	0.00
ATOM	8121	HD2	PHE	X	531	47.795	33.210	69.863	0.00	0.00
ATOM	8122	C	PHE	X	531	48.136	35.675	66.555	0.00	0.00
ATOM	8123	O	PHE	X	531	48.999	36.223	67.249	0.00	0.00
ATOM	8124	N	LEU	X	532	48.185	35.832	65.212	0.00	0.00
ATOM	8125	H	LEU	X	532	47.441	35.421	64.665	0.00	0.00
ATOM	8126	CA	LEU	X	532	49.195	36.484	64.509	0.00	0.00
ATOM	8127	HA	LEU	X	532	50.070	36.029	64.973	0.00	0.00
ATOM	8128	CB	LEU	X	532	49.128	36.093	63.029	0.00	0.00
ATOM	8129	HB2	LEU	X	532	49.220	35.014	62.909	0.00	0.00
ATOM	8130	HB3	LEU	X	532	48.147	36.357	62.633	0.00	0.00
ATOM	8131	CG	LEU	X	532	50.245	36.660	62.122	0.00	0.00
ATOM	8132	HG	LEU	X	532	50.434	36.024	61.258	0.00	0.00
ATOM	8133	CD1	LEU	X	532	49.805	37.928	61.451	0.00	0.00
ATOM	8134	HD11	LEU	X	532	50.504	38.155	60.646	0.00	0.00
ATOM	8135	HD12	LEU	X	532	49.761	38.672	62.246	0.00	0.00
ATOM	8136	HD13	LEU	X	532	48.815	37.859	61.001	0.00	0.00
ATOM	8137	CD2	LEU	X	532	51.657	36.728	62.826	0.00	0.00
ATOM	8138	HD21	LEU	X	532	52.025	35.765	63.180	0.00	0.00
ATOM	8139	HD22	LEU	X	532	52.348	36.991	62.025	0.00	0.00
ATOM	8140	HD23	LEU	X	532	51.773	37.536	63.548	0.00	0.00
ATOM	8141	C	LEU	X	532	49.136	37.951	64.830	0.00	0.00
ATOM	8142	O	LEU	X	532	50.199	38.426	65.137	0.00	0.00
ATOM	8143	N	PRO	X	533	48.025	38.711	64.717	0.00	0.00
ATOM	8144	CD	PRO	X	533	46.718	38.346	64.036	0.00	0.00
ATOM	8145	HD2	PRO	X	533	46.228	37.468	64.457	0.00	0.00
ATOM	8146	HD3	PRO	X	533	46.860	38.013	63.008	0.00	0.00
ATOM	8147	CG	PRO	X	533	45.955	39.644	63.990	0.00	0.00
ATOM	8148	HG2	PRO	X	533	44.879	39.476	64.029	0.00	0.00
ATOM	8149	HG3	PRO	X	533	46.128	40.163	63.047	0.00	0.00
ATOM	8150	CB	PRO	X	533	46.369	40.362	65.255	0.00	0.00
ATOM	8151	HB2	PRO	X	533	45.781	40.019	66.106	0.00	0.00
ATOM	8152	HB3	PRO	X	533	46.225	41.442	65.211	0.00	0.00
ATOM	8153	CA	PRO	X	533	47.831	40.043	65.251	0.00	0.00
ATOM	8154	HA	PRO	X	533	48.271	40.796	64.598	0.00	0.00
ATOM	8155	C	PRO	X	533	48.401	40.271	66.610	0.00	0.00
ATOM	8156	O	PRO	X	533	49.153	41.231	66.767	0.00	0.00
ATOM	8157	N	LYS	X	534	48.163	39.355	67.518	0.00	0.00
ATOM	8158	H	LYS	X	534	47.489	38.625	67.334	0.00	0.00
ATOM	8159	CA	LYS	X	534	48.656	39.433	68.905	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.513	40.462	69.235	0.00	0.00
ATOM	8161	CB	LYS	X	534	47.845	38.442	69.895	0.00	0.00
ATOM	8162	HB2	LYS	X	534	47.928	37.463	69.423	0.00	0.00
ATOM	8163	HB3	LYS	X	534	48.451	38.413	70.801	0.00	0.00
ATOM	8164	CG	LYS	X	534	46.374	38.923	70.172	0.00	0.00
ATOM	8165	HG2	LYS	X	534	46.415	39.993	70.374	0.00	0.00
ATOM	8166	HG3	LYS	X	534	45.827	38.898	69.229	0.00	0.00
ATOM	8167	CD	LYS	X	534	45.494	38.114	71.138	0.00	0.00
ATOM	8168	HD2	LYS	X	534	44.486	38.530	71.114	0.00	0.00
ATOM	8169	HD3	LYS	X	534	45.501	37.054	70.882	0.00	0.00
ATOM	8170	CE	LYS	X	534	45.929	38.279	72.576	0.00	0.00
ATOM	8171	HE2	LYS	X	534	46.988	38.019	72.570	0.00	0.00
ATOM	8172	HE3	LYS	X	534	45.905	39.335	72.843	0.00	0.00
ATOM	8173	NZ	LYS	X	534	45.232	37.338	73.495	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	45.477	37.557	74.450	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	44.239	37.449	73.344	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	45.509	36.382	73.322	0.00	0.00
ATOM	8177	C	LYS	X	534	50.119	39.154	69.043	0.00	0.00
ATOM	8178	O	LYS	X	534	50.740	39.626	69.996	0.00	0.00

ATOM	8179	N	LEU	X	535	50.778	38.416	68.048	0.00	0.00
ATOM	8180	H	LEU	X	535	50.215	37.901	67.386	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.206	38.171	67.988	0.00	0.00
ATOM	8182	HA	LEU	X	535	52.500	37.953	69.015	0.00	0.00
ATOM	8183	CB	LEU	X	535	52.635	36.964	67.038	0.00	0.00
ATOM	8184	HB2	LEU	X	535	52.182	36.105	67.533	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.096	37.035	66.093	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.143	36.745	66.825	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.644	37.560	66.302	0.00	0.00
ATOM	8188	CD1	LEU	X	535	54.727	36.409	68.191	0.00	0.00
ATOM	8189	HD11	LEU	X	535	54.657	37.287	68.833	0.00	0.00
ATOM	8190	HD12	LEU	X	535	55.778	36.138	68.101	0.00	0.00
ATOM	8191	HD13	LEU	X	535	54.367	35.600	68.826	0.00	0.00
ATOM	8192	CD2	LEU	X	535	54.183	35.565	65.873	0.00	0.00
ATOM	8193	HD21	LEU	X	535	53.415	34.848	66.165	0.00	0.00
ATOM	8194	HD22	LEU	X	535	54.111	35.800	64.811	0.00	0.00
ATOM	8195	HD23	LEU	X	535	55.139	35.070	65.702	0.00	0.00
ATOM	8196	C	LEU	X	535	52.887	39.428	67.529	0.00	0.00
ATOM	8197	O	LEU	X	535	53.752	39.980	68.159	0.00	0.00
ATOM	8198	N	LEU	X	536	52.517	39.956	66.338	0.00	0.00
ATOM	8199	H	LEU	X	536	51.789	39.463	65.840	0.00	0.00
ATOM	8200	CA	LEU	X	536	53.132	41.139	65.733	0.00	0.00
ATOM	8201	HA	LEU	X	536	54.219	41.066	65.706	0.00	0.00
ATOM	8202	CB	LEU	X	536	52.556	41.216	64.282	0.00	0.00
ATOM	8203	HB2	LEU	X	536	51.507	40.927	64.350	0.00	0.00
ATOM	8204	HB3	LEU	X	536	52.639	42.240	63.919	0.00	0.00
ATOM	8205	CG	LEU	X	536	53.361	40.285	63.316	0.00	0.00
ATOM	8206	HG	LEU	X	536	53.533	39.294	63.737	0.00	0.00
ATOM	8207	CD1	LEU	X	536	52.695	40.221	61.928	0.00	0.00
ATOM	8208	HD11	LEU	X	536	51.697	39.787	61.985	0.00	0.00
ATOM	8209	HD12	LEU	X	536	53.244	39.490	61.334	0.00	0.00
ATOM	8210	HD13	LEU	X	536	52.613	41.163	61.385	0.00	0.00
ATOM	8211	CD2	LEU	X	536	54.740	40.989	63.051	0.00	0.00
ATOM	8212	HD21	LEU	X	536	55.459	40.350	62.538	0.00	0.00
ATOM	8213	HD22	LEU	X	536	54.557	41.845	62.401	0.00	0.00
ATOM	8214	HD23	LEU	X	536	55.247	41.303	63.963	0.00	0.00
ATOM	8215	C	LEU	X	536	52.962	42.422	66.510	0.00	0.00
ATOM	8216	O	LEU	X	536	53.768	43.308	66.533	0.00	0.00
ATOM	8217	N	SER	X	537	51.887	42.535	67.319	0.00	0.00
ATOM	8218	H	SER	X	537	51.069	41.967	67.150	0.00	0.00
ATOM	8219	CA	SER	X	537	51.755	43.592	68.322	0.00	0.00
ATOM	8220	HA	SER	X	537	52.008	44.587	67.953	0.00	0.00
ATOM	8221	CB	SER	X	537	50.273	43.738	68.662	0.00	0.00
ATOM	8222	HB2	SER	X	537	50.013	44.649	69.202	0.00	0.00
ATOM	8223	HB3	SER	X	537	49.745	43.716	67.708	0.00	0.00
ATOM	8224	OG	SER	X	537	49.903	42.702	69.502	0.00	0.00
ATOM	8225	HG	SER	X	537	49.016	42.838	69.842	0.00	0.00
ATOM	8226	C	SER	X	537	52.674	43.479	69.560	0.00	0.00
ATOM	8227	O	SER	X	537	53.027	44.422	70.279	0.00	0.00
ATOM	8228	N	ALA	X	538	53.185	42.285	69.757	0.00	0.00
ATOM	8229	H	ALA	X	538	52.847	41.580	69.117	0.00	0.00
ATOM	8230	CA	ALA	X	538	54.163	42.004	70.805	0.00	0.00
ATOM	8231	HA	ALA	X	538	54.219	42.844	71.498	0.00	0.00
ATOM	8232	CB	ALA	X	538	53.733	40.770	71.576	0.00	0.00
ATOM	8233	HB1	ALA	X	538	54.105	39.859	71.106	0.00	0.00
ATOM	8234	HB2	ALA	X	538	52.651	40.781	71.705	0.00	0.00
ATOM	8235	HB3	ALA	X	538	54.187	40.723	72.566	0.00	0.00
ATOM	8236	C	ALA	X	538	55.605	41.872	70.233	0.00	0.00
ATOM	8237	O	ALA	X	538	56.482	41.741	71.024	0.00	0.00
ATOM	8238	N	THR	X	539	55.751	41.908	68.889	0.00	0.00
ATOM	8239	H	THR	X	539	54.896	41.873	68.353	0.00	0.00
ATOM	8240	CA	THR	X	539	56.984	41.585	68.145	0.00	0.00
ATOM	8241	HA	THR	X	539	57.842	41.444	68.804	0.00	0.00
ATOM	8242	CB	THR	X	539	56.875	40.178	67.470	0.00	0.00
ATOM	8243	HB	THR	X	539	56.264	40.139	66.569	0.00	0.00
ATOM	8244	CG2	THR	X	539	58.212	39.534	67.055	0.00	0.00
ATOM	8245	HG21	THR	X	539	58.773	39.175	67.917	0.00	0.00

ATOM	8246	HG22	THR	X	539	58.886	40.203	66.521	0.00	0.00
ATOM	8247	HG23	THR	X	539	57.972	38.706	66.388	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.275	39.215	68.351	0.00	0.00
ATOM	8249	HG1	THR	X	539	55.391	39.580	68.431	0.00	0.00
ATOM	8250	C	THR	X	539	57.379	42.570	67.064	0.00	0.00
ATOM	8251	O	THR	X	539	57.207	42.373	65.870	0.00	0.00
ATOM	8252	OXT	THR	X	539	57.943	43.549	67.477	0.00	0.00

END

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1B41 Production MD Frame 0800
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CRYST1	82.129	82.129	82.129	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	20.285	44.497	9.737	0.00	0.00
ATOM	2	H1	ASP	X	1	21.287	44.389	9.680	0.00	0.00
ATOM	3	H2	ASP	X	1	19.973	44.377	8.784	0.00	0.00
ATOM	4	H3	ASP	X	1	19.855	43.747	10.260	0.00	0.00
ATOM	5	CA	ASP	X	1	20.193	45.861	10.221	0.00	0.00
ATOM	6	HA	ASP	X	1	21.268	46.034	10.273	0.00	0.00
ATOM	7	CB	ASP	X	1	19.551	46.907	9.330	0.00	0.00
ATOM	8	HB2	ASP	X	1	19.989	46.928	8.332	0.00	0.00
ATOM	9	HB3	ASP	X	1	18.495	46.639	9.292	0.00	0.00
ATOM	10	CG	ASP	X	1	19.785	48.301	9.789	0.00	0.00
ATOM	11	OD1	ASP	X	1	18.807	49.056	9.743	0.00	0.00
ATOM	12	OD2	ASP	X	1	20.899	48.634	10.296	0.00	0.00
ATOM	13	C	ASP	X	1	19.677	45.988	11.641	0.00	0.00
ATOM	14	O	ASP	X	1	20.489	46.395	12.511	0.00	0.00
ATOM	15	N	ALA	X	2	18.470	45.701	11.910	0.00	0.00
ATOM	16	H	ALA	X	2	17.742	45.454	11.255	0.00	0.00
ATOM	17	CA	ALA	X	2	17.992	45.921	13.342	0.00	0.00
ATOM	18	HA	ALA	X	2	18.233	46.899	13.759	0.00	0.00
ATOM	19	CB	ALA	X	2	16.546	45.586	13.307	0.00	0.00
ATOM	20	HB1	ALA	X	2	16.436	44.572	12.924	0.00	0.00
ATOM	21	HB2	ALA	X	2	16.130	46.290	12.588	0.00	0.00
ATOM	22	HB3	ALA	X	2	16.033	45.590	14.269	0.00	0.00
ATOM	23	C	ALA	X	2	18.817	45.004	14.412	0.00	0.00
ATOM	24	O	ALA	X	2	18.727	45.354	15.614	0.00	0.00
ATOM	25	N	GLU	X	3	19.640	43.983	13.986	0.00	0.00
ATOM	26	H	GLU	X	3	19.572	43.805	12.994	0.00	0.00
ATOM	27	CA	GLU	X	3	20.308	43.086	14.842	0.00	0.00
ATOM	28	HA	GLU	X	3	19.616	42.765	15.620	0.00	0.00
ATOM	29	CB	GLU	X	3	20.584	41.808	13.991	0.00	0.00
ATOM	30	HB2	GLU	X	3	21.272	41.990	13.165	0.00	0.00
ATOM	31	HB3	GLU	X	3	21.083	41.183	14.732	0.00	0.00
ATOM	32	CG	GLU	X	3	19.252	41.197	13.494	0.00	0.00
ATOM	33	HG2	GLU	X	3	19.228	40.110	13.575	0.00	0.00
ATOM	34	HG3	GLU	X	3	18.456	41.574	14.136	0.00	0.00
ATOM	35	CD	GLU	X	3	18.908	41.523	12.048	0.00	0.00
ATOM	36	OE1	GLU	X	3	18.324	40.752	11.260	0.00	0.00
ATOM	37	OE2	GLU	X	3	19.168	42.626	11.602	0.00	0.00
ATOM	38	C	GLU	X	3	21.540	43.717	15.507	0.00	0.00
ATOM	39	O	GLU	X	3	21.804	43.479	16.735	0.00	0.00
ATOM	40	N	LEU	X	4	22.201	44.522	14.675	0.00	0.00
ATOM	41	H	LEU	X	4	21.828	44.560	13.738	0.00	0.00
ATOM	42	CA	LEU	X	4	23.439	45.255	14.966	0.00	0.00
ATOM	43	HA	LEU	X	4	23.991	44.904	15.839	0.00	0.00
ATOM	44	CB	LEU	X	4	24.430	45.012	13.865	0.00	0.00
ATOM	45	HB2	LEU	X	4	24.028	45.348	12.909	0.00	0.00
ATOM	46	HB3	LEU	X	4	25.398	45.479	14.042	0.00	0.00
ATOM	47	CG	LEU	X	4	24.757	43.551	13.532	0.00	0.00
ATOM	48	HG	LEU	X	4	23.916	43.080	13.024	0.00	0.00
ATOM	49	CD1	LEU	X	4	25.801	43.560	12.397	0.00	0.00
ATOM	50	HD11	LEU	X	4	26.749	44.079	12.540	0.00	0.00
ATOM	51	HD12	LEU	X	4	25.449	44.095	11.515	0.00	0.00

ATOM	52	HD13	LEU	X	4	26.084	42.539	12.140	0.00	0.00
ATOM	53	CD2	LEU	X	4	25.184	42.571	14.617	0.00	0.00
ATOM	54	HD21	LEU	X	4	26.109	42.893	15.094	0.00	0.00
ATOM	55	HD22	LEU	X	4	24.449	42.694	15.413	0.00	0.00
ATOM	56	HD23	LEU	X	4	25.230	41.536	14.277	0.00	0.00
ATOM	57	C	LEU	X	4	23.270	46.733	15.186	0.00	0.00
ATOM	58	O	LEU	X	4	24.215	47.434	15.586	0.00	0.00
ATOM	59	N	LEU	X	5	22.115	47.300	14.921	0.00	0.00
ATOM	60	H	LEU	X	5	21.508	46.739	14.340	0.00	0.00
ATOM	61	CA	LEU	X	5	21.652	48.697	15.226	0.00	0.00
ATOM	62	HA	LEU	X	5	22.527	49.346	15.194	0.00	0.00
ATOM	63	CB	LEU	X	5	20.663	49.200	14.236	0.00	0.00
ATOM	64	HB2	LEU	X	5	21.086	49.248	13.233	0.00	0.00
ATOM	65	HB3	LEU	X	5	19.796	48.540	14.187	0.00	0.00
ATOM	66	CG	LEU	X	5	20.204	50.621	14.460	0.00	0.00
ATOM	67	HG	LEU	X	5	19.783	51.065	13.558	0.00	0.00
ATOM	68	CD1	LEU	X	5	19.081	50.711	15.495	0.00	0.00
ATOM	69	HD11	LEU	X	5	18.476	51.561	15.178	0.00	0.00
ATOM	70	HD12	LEU	X	5	19.337	50.694	16.554	0.00	0.00
ATOM	71	HD13	LEU	X	5	18.353	49.927	15.286	0.00	0.00
ATOM	72	CD2	LEU	X	5	21.199	51.707	14.863	0.00	0.00
ATOM	73	HD21	LEU	X	5	22.059	51.688	14.194	0.00	0.00
ATOM	74	HD22	LEU	X	5	20.810	52.723	14.799	0.00	0.00
ATOM	75	HD23	LEU	X	5	21.629	51.549	15.852	0.00	0.00
ATOM	76	C	LEU	X	5	21.159	48.699	16.641	0.00	0.00
ATOM	77	O	LEU	X	5	20.307	47.902	16.941	0.00	0.00
ATOM	78	N	VAL	X	6	21.675	49.528	17.575	0.00	0.00
ATOM	79	H	VAL	X	6	22.384	50.174	17.258	0.00	0.00
ATOM	80	CA	VAL	X	6	21.115	49.731	18.960	0.00	0.00
ATOM	81	HA	VAL	X	6	20.149	49.228	19.002	0.00	0.00
ATOM	82	CB	VAL	X	6	21.965	49.057	19.991	0.00	0.00
ATOM	83	HB	VAL	X	6	22.178	48.087	19.541	0.00	0.00
ATOM	84	CG1	VAL	X	6	23.250	49.790	20.131	0.00	0.00
ATOM	85	HG11	VAL	X	6	23.774	49.291	20.946	0.00	0.00
ATOM	86	HG12	VAL	X	6	23.739	49.790	19.157	0.00	0.00
ATOM	87	HG13	VAL	X	6	23.075	50.819	20.447	0.00	0.00
ATOM	88	CG2	VAL	X	6	21.254	48.803	21.323	0.00	0.00
ATOM	89	HG21	VAL	X	6	20.403	48.122	21.287	0.00	0.00
ATOM	90	HG22	VAL	X	6	20.773	49.733	21.627	0.00	0.00
ATOM	91	HG23	VAL	X	6	21.911	48.399	22.092	0.00	0.00
ATOM	92	C	VAL	X	6	20.700	51.246	19.248	0.00	0.00
ATOM	93	O	VAL	X	6	21.328	52.161	18.669	0.00	0.00
ATOM	94	N	THR	X	7	19.581	51.423	20.008	0.00	0.00
ATOM	95	H	THR	X	7	19.063	50.572	20.169	0.00	0.00
ATOM	96	CA	THR	X	7	19.160	52.762	20.613	0.00	0.00
ATOM	97	HA	THR	X	7	19.733	53.568	20.154	0.00	0.00
ATOM	98	CB	THR	X	7	17.656	53.016	20.422	0.00	0.00
ATOM	99	HB	THR	X	7	17.166	52.349	21.131	0.00	0.00
ATOM	100	CG2	THR	X	7	17.299	54.449	20.703	0.00	0.00
ATOM	101	HG21	THR	X	7	17.321	54.588	21.784	0.00	0.00
ATOM	102	HG22	THR	X	7	16.289	54.683	20.366	0.00	0.00
ATOM	103	HG23	THR	X	7	18.039	55.193	20.407	0.00	0.00
ATOM	104	OG1	THR	X	7	17.144	52.736	19.162	0.00	0.00
ATOM	105	HG1	THR	X	7	17.025	51.785	19.109	0.00	0.00
ATOM	106	C	THR	X	7	19.392	52.734	22.103	0.00	0.00
ATOM	107	O	THR	X	7	18.955	51.792	22.843	0.00	0.00
ATOM	108	N	VAL	X	8	20.060	53.664	22.684	0.00	0.00
ATOM	109	H	VAL	X	8	20.326	54.468	22.133	0.00	0.00
ATOM	110	CA	VAL	X	8	20.242	53.822	24.141	0.00	0.00
ATOM	111	HA	VAL	X	8	19.394	53.335	24.621	0.00	0.00
ATOM	112	CB	VAL	X	8	21.664	53.431	24.550	0.00	0.00
ATOM	113	HB	VAL	X	8	21.810	53.650	25.608	0.00	0.00
ATOM	114	CG1	VAL	X	8	21.731	51.908	24.577	0.00	0.00
ATOM	115	HG11	VAL	X	8	21.053	51.474	25.313	0.00	0.00
ATOM	116	HG12	VAL	X	8	21.621	51.449	23.595	0.00	0.00
ATOM	117	HG13	VAL	X	8	22.726	51.546	24.834	0.00	0.00
ATOM	118	CG2	VAL	X	8	22.784	53.951	23.665	0.00	0.00

ATOM	119	HG21	VAL	X	8	23.694	53.592	24.145	0.00	0.00
ATOM	120	HG22	VAL	X	8	22.691	55.030	23.785	0.00	0.00
ATOM	121	HG23	VAL	X	8	22.672	53.695	22.611	0.00	0.00
ATOM	122	C	VAL	X	8	19.984	55.223	24.565	0.00	0.00
ATOM	123	O	VAL	X	8	19.720	56.062	23.737	0.00	0.00
ATOM	124	N	ARG	X	9	19.936	55.508	25.876	0.00	0.00
ATOM	125	H	ARG	X	9	20.286	54.841	26.549	0.00	0.00
ATOM	126	CA	ARG	X	9	19.390	56.761	26.466	0.00	0.00
ATOM	127	HA	ARG	X	9	18.341	56.745	26.173	0.00	0.00
ATOM	128	CB	ARG	X	9	19.491	56.648	27.952	0.00	0.00
ATOM	129	HB2	ARG	X	9	19.126	55.674	28.279	0.00	0.00
ATOM	130	HB3	ARG	X	9	20.478	56.867	28.359	0.00	0.00
ATOM	131	CG	ARG	X	9	18.548	57.642	28.635	0.00	0.00
ATOM	132	HG2	ARG	X	9	19.002	58.633	28.595	0.00	0.00
ATOM	133	HG3	ARG	X	9	17.545	57.575	28.214	0.00	0.00
ATOM	134	CD	ARG	X	9	18.437	57.303	30.110	0.00	0.00
ATOM	135	HD2	ARG	X	9	17.724	56.480	30.148	0.00	0.00
ATOM	136	HD3	ARG	X	9	19.421	57.015	30.480	0.00	0.00
ATOM	137	NE	ARG	X	9	18.012	58.517	30.813	0.00	0.00
ATOM	138	HE	ARG	X	9	18.119	59.381	30.301	0.00	0.00
ATOM	139	CZ	ARG	X	9	17.414	58.731	31.965	0.00	0.00
ATOM	140	NH1	ARG	X	9	17.173	57.739	32.836	0.00	0.00
ATOM	141	HH11	ARG	X	9	17.475	56.802	32.613	0.00	0.00
ATOM	142	HH12	ARG	X	9	16.969	57.871	33.816	0.00	0.00
ATOM	143	NH2	ARG	X	9	17.089	59.864	32.338	0.00	0.00
ATOM	144	HH21	ARG	X	9	17.382	60.673	31.808	0.00	0.00
ATOM	145	HH22	ARG	X	9	16.437	59.948	33.104	0.00	0.00
ATOM	146	C	ARG	X	9	19.992	58.060	25.903	0.00	0.00
ATOM	147	O	ARG	X	9	19.316	59.067	25.939	0.00	0.00
ATOM	148	N	GLY	X	10	21.225	57.988	25.330	0.00	0.00
ATOM	149	H	GLY	X	10	21.692	57.111	25.152	0.00	0.00
ATOM	150	CA	GLY	X	10	21.847	59.080	24.645	0.00	0.00
ATOM	151	HA2	GLY	X	10	21.399	60.054	24.841	0.00	0.00
ATOM	152	HA3	GLY	X	10	22.858	59.076	25.054	0.00	0.00
ATOM	153	C	GLY	X	10	22.028	59.075	23.153	0.00	0.00
ATOM	154	O	GLY	X	10	22.568	60.031	22.584	0.00	0.00
ATOM	155	N	GLY	X	11	21.486	58.025	22.474	0.00	0.00
ATOM	156	H	GLY	X	11	20.969	57.308	22.963	0.00	0.00
ATOM	157	CA	GLY	X	11	21.464	57.988	20.969	0.00	0.00
ATOM	158	HA2	GLY	X	11	20.493	58.420	20.727	0.00	0.00
ATOM	159	HA3	GLY	X	11	22.307	58.562	20.586	0.00	0.00
ATOM	160	C	GLY	X	11	21.534	56.588	20.386	0.00	0.00
ATOM	161	O	GLY	X	11	21.221	55.608	20.981	0.00	0.00
ATOM	162	N	ARG	X	12	21.890	56.562	19.107	0.00	0.00
ATOM	163	H	ARG	X	12	22.142	57.409	18.619	0.00	0.00
ATOM	164	CA	ARG	X	12	21.988	55.340	18.380	0.00	0.00
ATOM	165	HA	ARG	X	12	21.406	54.641	18.980	0.00	0.00
ATOM	166	CB	ARG	X	12	21.227	55.377	17.049	0.00	0.00
ATOM	167	HB2	ARG	X	12	21.440	56.300	16.510	0.00	0.00
ATOM	168	HB3	ARG	X	12	21.553	54.647	16.308	0.00	0.00
ATOM	169	CG	ARG	X	12	19.673	55.400	17.317	0.00	0.00
ATOM	170	HG2	ARG	X	12	19.463	54.678	18.106	0.00	0.00
ATOM	171	HG3	ARG	X	12	19.291	56.407	17.488	0.00	0.00
ATOM	172	CD	ARG	X	12	18.906	54.718	16.106	0.00	0.00
ATOM	173	HD2	ARG	X	12	19.143	53.660	15.989	0.00	0.00
ATOM	174	HD3	ARG	X	12	17.837	54.751	16.312	0.00	0.00
ATOM	175	NE	ARG	X	12	19.205	55.369	14.870	0.00	0.00
ATOM	176	HE	ARG	X	12	19.803	56.182	14.889	0.00	0.00
ATOM	177	CZ	ARG	X	12	18.544	55.194	13.719	0.00	0.00
ATOM	178	NH1	ARG	X	12	17.593	54.362	13.426	0.00	0.00
ATOM	179	HH11	ARG	X	12	17.167	53.800	14.149	0.00	0.00
ATOM	180	HH12	ARG	X	12	17.290	54.437	12.466	0.00	0.00
ATOM	181	NH2	ARG	X	12	18.832	56.009	12.717	0.00	0.00
ATOM	182	HH21	ARG	X	12	19.575	56.694	12.715	0.00	0.00
ATOM	183	HH22	ARG	X	12	18.430	55.919	11.794	0.00	0.00
ATOM	184	C	ARG	X	12	23.546	54.873	18.314	0.00	0.00
ATOM	185	O	ARG	X	12	24.425	55.724	18.228	0.00	0.00

ATOM	186	N	LEU	X	13	23.719	53.561	18.388	0.00	0.00
ATOM	187	H	LEU	X	13	22.884	52.993	18.408	0.00	0.00
ATOM	188	CA	LEU	X	13	25.022	52.853	18.351	0.00	0.00
ATOM	189	HA	LEU	X	13	25.737	53.542	17.901	0.00	0.00
ATOM	190	CB	LEU	X	13	25.668	52.287	19.655	0.00	0.00
ATOM	191	HB2	LEU	X	13	24.964	51.544	20.032	0.00	0.00
ATOM	192	HB3	LEU	X	13	26.683	51.926	19.491	0.00	0.00
ATOM	193	CG	LEU	X	13	25.793	53.306	20.754	0.00	0.00
ATOM	194	HG	LEU	X	13	24.811	53.758	20.889	0.00	0.00
ATOM	195	CD1	LEU	X	13	26.230	52.553	22.072	0.00	0.00
ATOM	196	HD11	LEU	X	13	27.214	52.130	21.868	0.00	0.00
ATOM	197	HD12	LEU	X	13	25.502	51.771	22.290	0.00	0.00
ATOM	198	HD13	LEU	X	13	26.303	53.162	22.974	0.00	0.00
ATOM	199	CD2	LEU	X	13	26.854	54.392	20.429	0.00	0.00
ATOM	200	HD21	LEU	X	13	26.647	55.274	21.034	0.00	0.00
ATOM	201	HD22	LEU	X	13	27.915	54.148	20.477	0.00	0.00
ATOM	202	HD23	LEU	X	13	26.678	54.698	19.397	0.00	0.00
ATOM	203	C	LEU	X	13	24.925	51.752	17.328	0.00	0.00
ATOM	204	O	LEU	X	13	23.850	51.182	16.957	0.00	0.00
ATOM	205	N	ARG	X	14	26.069	51.401	16.777	0.00	0.00
ATOM	206	H	ARG	X	14	26.893	51.946	16.987	0.00	0.00
ATOM	207	CA	ARG	X	14	26.239	50.344	15.741	0.00	0.00
ATOM	208	HA	ARG	X	14	25.302	49.799	15.631	0.00	0.00
ATOM	209	CB	ARG	X	14	26.687	50.960	14.422	0.00	0.00
ATOM	210	HB2	ARG	X	14	25.858	51.565	14.054	0.00	0.00
ATOM	211	HB3	ARG	X	14	27.554	51.600	14.583	0.00	0.00
ATOM	212	CG	ARG	X	14	26.913	50.061	13.210	0.00	0.00
ATOM	213	HG2	ARG	X	14	27.620	49.256	13.408	0.00	0.00
ATOM	214	HG3	ARG	X	14	25.957	49.672	12.857	0.00	0.00
ATOM	215	CD	ARG	X	14	27.488	50.892	12.052	0.00	0.00
ATOM	216	HD2	ARG	X	14	28.376	51.383	12.449	0.00	0.00
ATOM	217	HD3	ARG	X	14	27.664	50.213	11.218	0.00	0.00
ATOM	218	NE	ARG	X	14	26.450	51.828	11.563	0.00	0.00
ATOM	219	HE	ARG	X	14	25.488	51.519	11.552	0.00	0.00
ATOM	220	CZ	ARG	X	14	26.564	53.150	11.392	0.00	0.00
ATOM	221	NH1	ARG	X	14	27.721	53.756	11.602	0.00	0.00
ATOM	222	NH11	ARG	X	14	28.494	53.131	11.779	0.00	0.00
ATOM	223	NH12	ARG	X	14	27.803	54.744	11.408	0.00	0.00
ATOM	224	NH2	ARG	X	14	25.603	53.913	10.942	0.00	0.00
ATOM	225	NH21	ARG	X	14	24.716	53.459	10.779	0.00	0.00
ATOM	226	NH22	ARG	X	14	25.865	54.825	10.596	0.00	0.00
ATOM	227	C	ARG	X	14	27.332	49.331	16.198	0.00	0.00
ATOM	228	O	ARG	X	14	28.474	49.731	16.332	0.00	0.00
ATOM	229	N	GLY	X	15	27.118	47.994	16.173	0.00	0.00
ATOM	230	H	GLY	X	15	26.162	47.710	16.012	0.00	0.00
ATOM	231	CA	GLY	X	15	28.033	46.898	16.535	0.00	0.00
ATOM	232	HA2	GLY	X	15	28.954	47.265	16.989	0.00	0.00
ATOM	233	HA3	GLY	X	15	27.498	46.177	17.153	0.00	0.00
ATOM	234	C	GLY	X	15	28.374	46.040	15.267	0.00	0.00
ATOM	235	O	GLY	X	15	28.390	46.576	14.123	0.00	0.00
ATOM	236	N	ILE	X	16	28.858	44.840	15.467	0.00	0.00
ATOM	237	H	ILE	X	16	28.688	44.529	16.412	0.00	0.00
ATOM	238	CA	ILE	X	16	29.300	43.788	14.501	0.00	0.00
ATOM	239	HA	ILE	X	16	28.987	44.074	13.497	0.00	0.00
ATOM	240	CB	ILE	X	16	30.840	43.752	14.562	0.00	0.00
ATOM	241	HB	ILE	X	16	31.124	42.845	14.028	0.00	0.00
ATOM	242	CG2	ILE	X	16	31.355	45.000	13.794	0.00	0.00
ATOM	243	HG21	ILE	X	16	32.393	45.164	14.083	0.00	0.00
ATOM	244	HG22	ILE	X	16	30.917	45.957	14.077	0.00	0.00
ATOM	245	HG23	ILE	X	16	31.226	44.956	12.712	0.00	0.00
ATOM	246	CG1	ILE	X	16	31.333	43.779	16.025	0.00	0.00
ATOM	247	HG12	ILE	X	16	31.316	44.790	16.431	0.00	0.00
ATOM	248	HG13	ILE	X	16	30.762	43.112	16.671	0.00	0.00
ATOM	249	CD1	ILE	X	16	32.821	43.260	15.908	0.00	0.00
ATOM	250	HD11	ILE	X	16	32.951	42.317	15.377	0.00	0.00
ATOM	251	HD12	ILE	X	16	33.177	43.084	16.923	0.00	0.00
ATOM	252	HD13	ILE	X	16	33.372	44.083	15.452	0.00	0.00

ATOM	253	C	ILE	X	16	28.705	42.402	14.818	0.00	0.00
ATOM	254	O	ILE	X	16	28.486	42.015	15.992	0.00	0.00
ATOM	255	N	ARG	X	17	28.556	41.602	13.767	0.00	0.00
ATOM	256	H	ARG	X	17	28.598	42.043	12.859	0.00	0.00
ATOM	257	CA	ARG	X	17	28.433	40.140	13.920	0.00	0.00
ATOM	258	HA	ARG	X	17	27.704	39.819	14.664	0.00	0.00
ATOM	259	CB	ARG	X	17	27.985	39.621	12.495	0.00	0.00
ATOM	260	HB2	ARG	X	17	27.186	40.252	12.105	0.00	0.00
ATOM	261	HB3	ARG	X	17	28.849	39.875	11.881	0.00	0.00
ATOM	262	CG	ARG	X	17	27.664	38.122	12.249	0.00	0.00
ATOM	263	HG2	ARG	X	17	28.686	37.742	12.254	0.00	0.00
ATOM	264	HG3	ARG	X	17	27.227	37.653	13.131	0.00	0.00
ATOM	265	CD	ARG	X	17	26.971	37.797	10.949	0.00	0.00
ATOM	266	HD2	ARG	X	17	26.054	38.385	10.969	0.00	0.00
ATOM	267	HD3	ARG	X	17	27.538	38.150	10.087	0.00	0.00
ATOM	268	NE	ARG	X	17	26.697	36.349	10.801	0.00	0.00
ATOM	269	HE	ARG	X	17	25.867	35.899	11.161	0.00	0.00
ATOM	270	CZ	ARG	X	17	27.552	35.575	10.132	0.00	0.00
ATOM	271	NH1	ARG	X	17	28.726	36.032	9.656	0.00	0.00
ATOM	272	HH11	ARG	X	17	28.938	37.012	9.775	0.00	0.00
ATOM	273	HH12	ARG	X	17	29.273	35.473	9.018	0.00	0.00
ATOM	274	NH2	ARG	X	17	27.245	34.329	9.911	0.00	0.00
ATOM	275	HH21	ARG	X	17	26.399	33.901	10.260	0.00	0.00
ATOM	276	HH22	ARG	X	17	27.896	33.697	9.466	0.00	0.00
ATOM	277	C	ARG	X	17	29.801	39.471	14.248	0.00	0.00
ATOM	278	O	ARG	X	17	30.832	39.776	13.704	0.00	0.00
ATOM	279	N	LEU	X	18	29.721	38.533	15.221	0.00	0.00
ATOM	280	H	LEU	X	18	28.814	38.484	15.664	0.00	0.00
ATOM	281	CA	LEU	X	18	30.750	37.560	15.604	0.00	0.00
ATOM	282	HA	LEU	X	18	31.594	37.813	14.961	0.00	0.00
ATOM	283	CB	LEU	X	18	31.052	37.728	17.064	0.00	0.00
ATOM	284	HB2	LEU	X	18	30.101	37.683	17.594	0.00	0.00
ATOM	285	HB3	LEU	X	18	31.817	36.997	17.325	0.00	0.00
ATOM	286	CG	LEU	X	18	31.668	39.117	17.425	0.00	0.00
ATOM	287	HG	LEU	X	18	31.091	39.969	17.064	0.00	0.00
ATOM	288	CD1	LEU	X	18	31.917	39.108	18.951	0.00	0.00
ATOM	289	HD11	LEU	X	18	32.208	40.114	19.253	0.00	0.00
ATOM	290	HD12	LEU	X	18	32.721	38.441	19.265	0.00	0.00
ATOM	291	HD13	LEU	X	18	31.079	38.703	19.519	0.00	0.00
ATOM	292	CD2	LEU	X	18	33.059	39.316	16.796	0.00	0.00
ATOM	293	HD21	LEU	X	18	33.381	40.316	17.084	0.00	0.00
ATOM	294	HD22	LEU	X	18	33.691	38.440	16.943	0.00	0.00
ATOM	295	HD23	LEU	X	18	33.063	39.294	15.707	0.00	0.00
ATOM	296	C	LEU	X	18	30.245	36.163	15.292	0.00	0.00
ATOM	297	O	LEU	X	18	29.095	35.910	15.578	0.00	0.00
ATOM	298	N	LYS	X	19	30.934	35.323	14.588	0.00	0.00
ATOM	299	H	LYS	X	19	31.783	35.662	14.159	0.00	0.00
ATOM	300	CA	LYS	X	19	30.501	33.929	14.269	0.00	0.00
ATOM	301	HA	LYS	X	19	29.440	33.832	14.036	0.00	0.00
ATOM	302	CB	LYS	X	19	31.190	33.402	12.998	0.00	0.00
ATOM	303	HB2	LYS	X	19	32.240	33.286	13.266	0.00	0.00
ATOM	304	HB3	LYS	X	19	30.745	32.414	12.881	0.00	0.00
ATOM	305	CG	LYS	X	19	30.958	34.255	11.678	0.00	0.00
ATOM	306	HG2	LYS	X	19	29.908	34.371	11.409	0.00	0.00
ATOM	307	HG3	LYS	X	19	31.460	35.221	11.725	0.00	0.00
ATOM	308	CD	LYS	X	19	31.590	33.634	10.465	0.00	0.00
ATOM	309	HD2	LYS	X	19	31.505	34.317	9.620	0.00	0.00
ATOM	310	HD3	LYS	X	19	32.664	33.611	10.651	0.00	0.00
ATOM	311	CE	LYS	X	19	31.114	32.304	9.896	0.00	0.00
ATOM	312	HE2	LYS	X	19	30.943	31.533	10.647	0.00	0.00
ATOM	313	HE3	LYS	X	19	30.161	32.496	9.403	0.00	0.00
ATOM	314	NZ	LYS	X	19	32.032	31.740	8.891	0.00	0.00
ATOM	315	HZ1	LYS	X	19	32.007	32.381	8.111	0.00	0.00
ATOM	316	HZ2	LYS	X	19	32.968	31.713	9.269	0.00	0.00
ATOM	317	HZ3	LYS	X	19	31.739	30.827	8.573	0.00	0.00
ATOM	318	C	LYS	X	19	30.950	32.933	15.370	0.00	0.00
ATOM	319	O	LYS	X	19	31.923	33.240	16.144	0.00	0.00

ATOM	320	N	THR	X	20	30.157	31.863	15.569	0.00	0.00
ATOM	321	H	THR	X	20	29.359	31.704	14.971	0.00	0.00
ATOM	322	CA	THR	X	20	30.415	30.663	16.449	0.00	0.00
ATOM	323	HA	THR	X	20	31.486	30.460	16.436	0.00	0.00
ATOM	324	CB	THR	X	20	29.906	30.957	17.841	0.00	0.00
ATOM	325	HB	THR	X	20	29.475	30.005	18.150	0.00	0.00
ATOM	326	CG2	THR	X	20	31.006	31.305	18.829	0.00	0.00
ATOM	327	HG21	THR	X	20	30.580	31.952	19.595	0.00	0.00
ATOM	328	HG22	THR	X	20	31.685	31.972	18.297	0.00	0.00
ATOM	329	HG23	THR	X	20	31.468	30.406	19.237	0.00	0.00
ATOM	330	OG1	THR	X	20	28.959	31.943	17.901	0.00	0.00
ATOM	331	HG1	THR	X	20	28.266	31.654	17.301	0.00	0.00
ATOM	332	C	THR	X	20	29.723	29.419	15.878	0.00	0.00
ATOM	333	O	THR	X	20	28.664	29.553	15.216	0.00	0.00
ATOM	334	N	PRO	X	21	30.165	28.183	16.214	0.00	0.00
ATOM	335	CD	PRO	X	21	31.344	27.923	16.992	0.00	0.00
ATOM	336	HD2	PRO	X	21	31.080	27.843	18.046	0.00	0.00
ATOM	337	HD3	PRO	X	21	32.059	28.743	16.929	0.00	0.00
ATOM	338	CG	PRO	X	21	31.931	26.554	16.479	0.00	0.00
ATOM	339	HG2	PRO	X	21	32.619	26.079	17.178	0.00	0.00
ATOM	340	HG3	PRO	X	21	32.356	26.613	15.477	0.00	0.00
ATOM	341	CB	PRO	X	21	30.630	25.801	16.395	0.00	0.00
ATOM	342	HB2	PRO	X	21	30.294	25.537	17.397	0.00	0.00
ATOM	343	HB3	PRO	X	21	30.783	24.953	15.727	0.00	0.00
ATOM	344	CA	PRO	X	21	29.657	26.867	15.754	0.00	0.00
ATOM	345	HA	PRO	X	21	29.627	26.868	14.664	0.00	0.00
ATOM	346	C	PRO	X	21	28.230	26.516	16.126	0.00	0.00
ATOM	347	O	PRO	X	21	27.579	25.784	15.398	0.00	0.00
ATOM	348	N	GLY	X	22	27.604	27.103	17.200	0.00	0.00
ATOM	349	H	GLY	X	22	28.119	27.721	17.811	0.00	0.00
ATOM	350	CA	GLY	X	22	26.128	26.866	17.549	0.00	0.00
ATOM	351	HA2	GLY	X	22	25.904	25.949	17.004	0.00	0.00
ATOM	352	HA3	GLY	X	22	25.906	26.749	18.610	0.00	0.00
ATOM	353	C	GLY	X	22	25.076	27.900	17.040	0.00	0.00
ATOM	354	O	GLY	X	22	23.889	27.808	17.155	0.00	0.00
ATOM	355	N	GLY	X	23	25.635	28.978	16.404	0.00	0.00
ATOM	356	H	GLY	X	23	26.597	28.880	16.112	0.00	0.00
ATOM	357	CA	GLY	X	23	24.891	30.118	15.930	0.00	0.00
ATOM	358	HA2	GLY	X	23	24.753	30.131	14.849	0.00	0.00
ATOM	359	HA3	GLY	X	23	23.898	30.163	16.377	0.00	0.00
ATOM	360	C	GLY	X	23	25.659	31.482	16.228	0.00	0.00
ATOM	361	O	GLY	X	23	26.389	31.561	17.199	0.00	0.00
ATOM	362	N	PRO	X	24	25.451	32.519	15.380	0.00	0.00
ATOM	363	CD	PRO	X	24	24.524	32.466	14.240	0.00	0.00
ATOM	364	HD2	PRO	X	24	23.529	32.201	14.597	0.00	0.00
ATOM	365	HD3	PRO	X	24	24.901	31.745	13.515	0.00	0.00
ATOM	366	CG	PRO	X	24	24.439	33.917	13.818	0.00	0.00
ATOM	367	HG2	PRO	X	24	23.720	34.475	14.417	0.00	0.00
ATOM	368	HG3	PRO	X	24	24.137	34.009	12.774	0.00	0.00
ATOM	369	CB	PRO	X	24	25.843	34.502	14.113	0.00	0.00
ATOM	370	HB2	PRO	X	24	25.979	35.575	14.243	0.00	0.00
ATOM	371	HB3	PRO	X	24	26.570	34.188	13.363	0.00	0.00
ATOM	372	CA	PRO	X	24	26.147	33.819	15.394	0.00	0.00
ATOM	373	HA	PRO	X	24	27.203	33.547	15.391	0.00	0.00
ATOM	374	C	PRO	X	24	25.798	34.687	16.693	0.00	0.00
ATOM	375	O	PRO	X	24	24.845	34.514	17.410	0.00	0.00
ATOM	376	N	VAL	X	25	26.740	35.602	16.963	0.00	0.00
ATOM	377	H	VAL	X	25	27.569	35.586	16.387	0.00	0.00
ATOM	378	CA	VAL	X	25	26.729	36.500	18.172	0.00	0.00
ATOM	379	HA	VAL	X	25	25.777	36.340	18.677	0.00	0.00
ATOM	380	CB	VAL	X	25	27.884	36.136	19.175	0.00	0.00
ATOM	381	HB	VAL	X	25	28.742	35.805	18.590	0.00	0.00
ATOM	382	CG1	VAL	X	25	28.232	37.236	20.249	0.00	0.00
ATOM	383	HG11	VAL	X	25	27.350	37.783	20.583	0.00	0.00
ATOM	384	HG12	VAL	X	25	28.855	36.949	21.096	0.00	0.00
ATOM	385	HG13	VAL	X	25	28.916	37.835	19.648	0.00	0.00
ATOM	386	CG2	VAL	X	25	27.368	34.888	19.954	0.00	0.00

ATOM	387	HG21	VAL	X	25	26.419	35.161	20.415	0.00	0.00
ATOM	388	HG22	VAL	X	25	28.027	34.528	20.744	0.00	0.00
ATOM	389	HG23	VAL	X	25	27.183	34.092	19.232	0.00	0.00
ATOM	390	C	VAL	X	25	26.782	37.948	17.761	0.00	0.00
ATOM	391	O	VAL	X	25	27.691	38.230	17.019	0.00	0.00
ATOM	392	N	SER	X	26	25.869	38.807	18.217	0.00	0.00
ATOM	393	H	SER	X	26	25.292	38.511	18.991	0.00	0.00
ATOM	394	CA	SER	X	26	25.938	40.272	17.980	0.00	0.00
ATOM	395	HA	SER	X	26	26.316	40.585	17.006	0.00	0.00
ATOM	396	CB	SER	X	26	24.500	40.775	18.003	0.00	0.00
ATOM	397	HB2	SER	X	26	24.025	40.458	17.074	0.00	0.00
ATOM	398	HB3	SER	X	26	24.021	40.302	18.860	0.00	0.00
ATOM	399	OG	SER	X	26	24.385	42.185	18.037	0.00	0.00
ATOM	400	HG	SER	X	26	23.552	42.518	17.695	0.00	0.00
ATOM	401	C	SER	X	26	26.847	40.838	19.139	0.00	0.00
ATOM	402	O	SER	X	26	26.702	40.406	20.290	0.00	0.00
ATOM	403	N	ALA	X	27	27.675	41.899	18.868	0.00	0.00
ATOM	404	H	ALA	X	27	27.763	42.275	17.934	0.00	0.00
ATOM	405	CA	ALA	X	27	28.616	42.483	19.735	0.00	0.00
ATOM	406	HA	ALA	X	27	28.262	42.470	20.766	0.00	0.00
ATOM	407	CB	ALA	X	27	29.853	41.608	19.553	0.00	0.00
ATOM	408	HB1	ALA	X	27	30.662	41.864	20.237	0.00	0.00
ATOM	409	HB2	ALA	X	27	30.272	41.623	18.547	0.00	0.00
ATOM	410	HB3	ALA	X	27	29.598	40.588	19.839	0.00	0.00
ATOM	411	C	ALA	X	27	28.830	43.973	19.350	0.00	0.00
ATOM	412	O	ALA	X	27	29.034	44.367	18.223	0.00	0.00
ATOM	413	N	PHE	X	28	28.780	44.804	20.412	0.00	0.00
ATOM	414	H	PHE	X	28	28.775	44.265	21.266	0.00	0.00
ATOM	415	CA	PHE	X	28	29.083	46.244	20.582	0.00	0.00
ATOM	416	HA	PHE	X	28	29.351	46.592	19.585	0.00	0.00
ATOM	417	CB	PHE	X	28	27.808	46.892	21.182	0.00	0.00
ATOM	418	HB2	PHE	X	28	27.695	46.450	22.172	0.00	0.00
ATOM	419	HB3	PHE	X	28	27.872	47.969	21.337	0.00	0.00
ATOM	420	CG	PHE	X	28	26.566	46.564	20.268	0.00	0.00
ATOM	421	CD1	PHE	X	28	25.843	45.289	20.375	0.00	0.00
ATOM	422	HD1	PHE	X	28	26.270	44.571	21.060	0.00	0.00
ATOM	423	CE1	PHE	X	28	24.709	45.021	19.671	0.00	0.00
ATOM	424	HE1	PHE	X	28	24.197	44.070	19.707	0.00	0.00
ATOM	425	CZ	PHE	X	28	24.177	45.951	18.787	0.00	0.00
ATOM	426	HZ	PHE	X	28	23.244	45.767	18.274	0.00	0.00
ATOM	427	CE2	PHE	X	28	24.796	47.217	18.740	0.00	0.00
ATOM	428	HE2	PHE	X	28	24.412	47.891	17.989	0.00	0.00
ATOM	429	CD2	PHE	X	28	26.040	47.490	19.352	0.00	0.00
ATOM	430	HD2	PHE	X	28	26.613	48.377	19.126	0.00	0.00
ATOM	431	C	PHE	X	28	30.266	46.420	21.501	0.00	0.00
ATOM	432	O	PHE	X	28	30.420	45.733	22.506	0.00	0.00
ATOM	433	N	LEU	X	29	31.225	47.139	20.957	0.00	0.00
ATOM	434	H	LEU	X	29	31.049	47.746	20.170	0.00	0.00
ATOM	435	CA	LEU	X	29	32.520	47.276	21.635	0.00	0.00
ATOM	436	HA	LEU	X	29	32.518	46.814	22.622	0.00	0.00
ATOM	437	CB	LEU	X	29	33.532	46.711	20.720	0.00	0.00
ATOM	438	HB2	LEU	X	29	33.661	47.192	19.750	0.00	0.00
ATOM	439	HB3	LEU	X	29	34.472	46.901	21.237	0.00	0.00
ATOM	440	CG	LEU	X	29	33.345	45.188	20.474	0.00	0.00
ATOM	441	HG	LEU	X	29	32.470	44.927	19.879	0.00	0.00
ATOM	442	CD1	LEU	X	29	34.620	44.744	19.674	0.00	0.00
ATOM	443	HD11	LEU	X	29	34.735	45.285	18.734	0.00	0.00
ATOM	444	HD12	LEU	X	29	34.596	43.670	19.492	0.00	0.00
ATOM	445	HD13	LEU	X	29	35.495	44.860	20.312	0.00	0.00
ATOM	446	CD2	LEU	X	29	33.296	44.488	21.833	0.00	0.00
ATOM	447	HD21	LEU	X	29	33.089	43.422	21.736	0.00	0.00
ATOM	448	HD22	LEU	X	29	34.234	44.646	22.365	0.00	0.00
ATOM	449	HD23	LEU	X	29	32.447	44.817	22.433	0.00	0.00
ATOM	450	C	LEU	X	29	32.770	48.775	21.759	0.00	0.00
ATOM	451	O	LEU	X	29	32.361	49.531	20.868	0.00	0.00
ATOM	452	N	GLY	X	30	33.344	49.285	22.822	0.00	0.00
ATOM	453	H	GLY	X	30	33.589	48.710	23.616	0.00	0.00

ATOM	454	CA	GLY	X	30	33.748	50.727	22.862	0.00	0.00
ATOM	455	HA2	GLY	X	30	34.272	50.909	23.801	0.00	0.00
ATOM	456	HA3	GLY	X	30	34.422	50.962	22.038	0.00	0.00
ATOM	457	C	GLY	X	30	32.551	51.673	22.825	0.00	0.00
ATOM	458	O	GLY	X	30	32.629	52.728	22.190	0.00	0.00
ATOM	459	N	ILE	X	31	31.577	51.364	23.636	0.00	0.00
ATOM	460	H	ILE	X	31	31.539	50.562	24.247	0.00	0.00
ATOM	461	CA	ILE	X	31	30.738	52.386	24.181	0.00	0.00
ATOM	462	HA	ILE	X	31	30.362	52.986	23.352	0.00	0.00
ATOM	463	CB	ILE	X	31	29.527	51.709	24.918	0.00	0.00
ATOM	464	HB	ILE	X	31	29.774	51.241	25.871	0.00	0.00
ATOM	465	CG2	ILE	X	31	28.509	52.788	25.381	0.00	0.00
ATOM	466	HG21	ILE	X	31	27.722	52.304	25.959	0.00	0.00
ATOM	467	HG22	ILE	X	31	28.021	53.278	24.538	0.00	0.00
ATOM	468	HG23	ILE	X	31	29.019	53.459	26.072	0.00	0.00
ATOM	469	CG1	ILE	X	31	28.720	50.586	24.115	0.00	0.00
ATOM	470	HG12	ILE	X	31	27.703	50.545	24.504	0.00	0.00
ATOM	471	HG13	ILE	X	31	28.791	50.727	23.036	0.00	0.00
ATOM	472	CD1	ILE	X	31	29.258	49.133	24.244	0.00	0.00
ATOM	473	HD11	ILE	X	31	30.263	48.907	23.889	0.00	0.00
ATOM	474	HD12	ILE	X	31	28.484	48.550	23.744	0.00	0.00
ATOM	475	HD13	ILE	X	31	29.118	48.888	25.297	0.00	0.00
ATOM	476	C	ILE	X	31	31.484	53.230	25.218	0.00	0.00
ATOM	477	O	ILE	X	31	31.906	52.703	26.231	0.00	0.00
ATOM	478	N	PRO	X	32	31.462	54.512	25.105	0.00	0.00
ATOM	479	CD	PRO	X	32	31.242	55.257	23.865	0.00	0.00
ATOM	480	HD2	PRO	X	32	30.244	55.078	23.464	0.00	0.00
ATOM	481	HD3	PRO	X	32	31.925	54.946	23.074	0.00	0.00
ATOM	482	CG	PRO	X	32	31.542	56.773	24.224	0.00	0.00
ATOM	483	HG2	PRO	X	32	30.542	57.100	24.509	0.00	0.00
ATOM	484	HG3	PRO	X	32	32.000	57.315	23.397	0.00	0.00
ATOM	485	CB	PRO	X	32	32.587	56.594	25.380	0.00	0.00
ATOM	486	HB2	PRO	X	32	32.413	57.422	26.066	0.00	0.00
ATOM	487	HB3	PRO	X	32	33.645	56.482	25.139	0.00	0.00
ATOM	488	CA	PRO	X	32	32.043	55.376	26.106	0.00	0.00
ATOM	489	HA	PRO	X	32	32.891	54.969	26.657	0.00	0.00
ATOM	490	C	PRO	X	32	30.920	55.655	27.170	0.00	0.00
ATOM	491	O	PRO	X	32	29.991	56.330	26.877	0.00	0.00
ATOM	492	N	PHE	X	33	30.911	55.160	28.374	0.00	0.00
ATOM	493	H	PHE	X	33	31.701	54.563	28.573	0.00	0.00
ATOM	494	CA	PHE	X	33	29.919	55.511	29.435	0.00	0.00
ATOM	495	HA	PHE	X	33	28.957	55.642	28.939	0.00	0.00
ATOM	496	CB	PHE	X	33	29.868	54.330	30.382	0.00	0.00
ATOM	497	HB2	PHE	X	33	29.042	54.522	31.067	0.00	0.00
ATOM	498	HB3	PHE	X	33	29.473	53.459	29.859	0.00	0.00
ATOM	499	CG	PHE	X	33	31.153	54.078	31.241	0.00	0.00
ATOM	500	CD1	PHE	X	33	31.351	54.753	32.451	0.00	0.00
ATOM	501	HD1	PHE	X	33	30.730	55.542	32.849	0.00	0.00
ATOM	502	CE1	PHE	X	33	32.604	54.468	33.132	0.00	0.00
ATOM	503	HE1	PHE	X	33	32.894	54.894	34.081	0.00	0.00
ATOM	504	CZ	PHE	X	33	33.517	53.532	32.628	0.00	0.00
ATOM	505	HZ	PHE	X	33	34.412	53.346	33.204	0.00	0.00
ATOM	506	CE2	PHE	X	33	33.177	52.734	31.551	0.00	0.00
ATOM	507	HE2	PHE	X	33	33.805	51.902	31.269	0.00	0.00
ATOM	508	CD2	PHE	X	33	32.016	53.015	30.859	0.00	0.00
ATOM	509	HD2	PHE	X	33	31.750	52.366	30.037	0.00	0.00
ATOM	510	C	PHE	X	33	30.218	56.831	30.056	0.00	0.00
ATOM	511	O	PHE	X	33	29.492	57.217	30.986	0.00	0.00
ATOM	512	N	ALA	X	34	31.283	57.541	29.698	0.00	0.00
ATOM	513	H	ALA	X	34	31.729	57.274	28.832	0.00	0.00
ATOM	514	CA	ALA	X	34	31.878	58.682	30.400	0.00	0.00
ATOM	515	HA	ALA	X	34	31.206	59.253	31.042	0.00	0.00
ATOM	516	CB	ALA	X	34	32.888	58.105	31.397	0.00	0.00
ATOM	517	HB1	ALA	X	34	33.360	58.776	32.115	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.724	57.646	30.868	0.00	0.00
ATOM	519	HB3	ALA	X	34	32.453	57.243	31.903	0.00	0.00
ATOM	520	C	ALA	X	34	32.651	59.659	29.466	0.00	0.00

ATOM	521	O	ALA	X	34	33.122	59.266	28.370	0.00	0.00
ATOM	522	N	GLU	X	35	32.869	60.910	29.893	0.00	0.00
ATOM	523	H	GLU	X	35	32.537	61.168	30.812	0.00	0.00
ATOM	524	CA	GLU	X	35	33.779	61.802	29.282	0.00	0.00
ATOM	525	HA	GLU	X	35	33.628	61.626	28.217	0.00	0.00
ATOM	526	CB	GLU	X	35	33.579	63.218	29.878	0.00	0.00
ATOM	527	HB2	GLU	X	35	33.717	63.095	30.952	0.00	0.00
ATOM	528	HB3	GLU	X	35	34.344	63.944	29.606	0.00	0.00
ATOM	529	CG	GLU	X	35	32.170	63.764	29.663	0.00	0.00
ATOM	530	HG2	GLU	X	35	31.369	63.155	30.084	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.108	64.636	30.314	0.00	0.00
ATOM	532	CD	GLU	X	35	31.829	64.169	28.243	0.00	0.00
ATOM	533	OE1	GLU	X	35	31.032	63.497	27.558	0.00	0.00
ATOM	534	OE2	GLU	X	35	32.156	65.333	27.787	0.00	0.00
ATOM	535	C	GLU	X	35	35.262	61.375	29.561	0.00	0.00
ATOM	536	O	GLU	X	35	35.619	60.541	30.481	0.00	0.00
ATOM	537	N	PRO	X	36	36.178	61.892	28.756	0.00	0.00
ATOM	538	CD	PRO	X	36	35.975	62.704	27.553	0.00	0.00
ATOM	539	HD2	PRO	X	36	35.471	63.663	27.673	0.00	0.00
ATOM	540	HD3	PRO	X	36	35.482	62.102	26.789	0.00	0.00
ATOM	541	CG	PRO	X	36	37.445	63.036	27.024	0.00	0.00
ATOM	542	HG2	PRO	X	36	37.764	63.938	27.546	0.00	0.00
ATOM	543	HG3	PRO	X	36	37.478	63.203	25.947	0.00	0.00
ATOM	544	CB	PRO	X	36	38.184	61.781	27.446	0.00	0.00
ATOM	545	HB2	PRO	X	36	39.251	61.949	27.595	0.00	0.00
ATOM	546	HB3	PRO	X	36	38.029	61.124	26.590	0.00	0.00
ATOM	547	CA	PRO	X	36	37.584	61.357	28.724	0.00	0.00
ATOM	548	HA	PRO	X	36	37.562	60.270	28.643	0.00	0.00
ATOM	549	C	PRO	X	36	38.441	61.853	30.001	0.00	0.00
ATOM	550	O	PRO	X	36	38.495	63.045	30.183	0.00	0.00
ATOM	551	N	PRO	X	37	39.128	60.983	30.824	0.00	0.00
ATOM	552	CD	PRO	X	37	38.992	59.523	30.764	0.00	0.00
ATOM	553	HD2	PRO	X	37	39.637	59.126	29.980	0.00	0.00
ATOM	554	HD3	PRO	X	37	37.957	59.186	30.695	0.00	0.00
ATOM	555	CG	PRO	X	37	39.566	59.053	32.139	0.00	0.00
ATOM	556	HG2	PRO	X	37	39.974	58.042	32.129	0.00	0.00
ATOM	557	HG3	PRO	X	37	38.839	59.152	32.945	0.00	0.00
ATOM	558	CB	PRO	X	37	40.619	60.123	32.357	0.00	0.00
ATOM	559	HB2	PRO	X	37	41.582	59.984	31.864	0.00	0.00
ATOM	560	HB3	PRO	X	37	40.752	60.322	33.420	0.00	0.00
ATOM	561	CA	PRO	X	37	39.958	61.377	31.860	0.00	0.00
ATOM	562	HA	PRO	X	37	39.367	61.906	32.609	0.00	0.00
ATOM	563	C	PRO	X	37	41.105	62.270	31.430	0.00	0.00
ATOM	564	O	PRO	X	37	41.726	62.838	32.378	0.00	0.00
ATOM	565	N	MET	X	38	41.378	62.456	30.149	0.00	0.00
ATOM	566	H	MET	X	38	40.772	62.046	29.452	0.00	0.00
ATOM	567	CA	MET	X	38	42.709	62.968	29.727	0.00	0.00
ATOM	568	HA	MET	X	38	43.459	62.279	30.113	0.00	0.00
ATOM	569	CB	MET	X	38	42.794	62.833	28.172	0.00	0.00
ATOM	570	HB2	MET	X	38	43.819	62.860	27.802	0.00	0.00
ATOM	571	HB3	MET	X	38	42.512	61.789	28.035	0.00	0.00
ATOM	572	CG	MET	X	38	41.830	63.609	27.311	0.00	0.00
ATOM	573	HG2	MET	X	38	40.860	63.676	27.804	0.00	0.00
ATOM	574	HG3	MET	X	38	42.165	64.642	27.218	0.00	0.00
ATOM	575	SD	MET	X	38	41.707	62.874	25.632	0.00	0.00
ATOM	576	CE	MET	X	38	40.602	63.943	24.650	0.00	0.00
ATOM	577	HE1	MET	X	38	40.135	64.692	25.290	0.00	0.00
ATOM	578	HE2	MET	X	38	41.289	64.458	23.979	0.00	0.00
ATOM	579	HE3	MET	X	38	39.924	63.330	24.055	0.00	0.00
ATOM	580	C	MET	X	38	43.042	64.402	30.252	0.00	0.00
ATOM	581	O	MET	X	38	42.286	65.342	29.920	0.00	0.00
ATOM	582	N	GLY	X	39	44.143	64.527	30.986	0.00	0.00
ATOM	583	H	GLY	X	39	44.578	63.629	31.142	0.00	0.00
ATOM	584	CA	GLY	X	39	44.713	65.832	31.376	0.00	0.00
ATOM	585	HA2	GLY	X	39	45.785	65.705	31.528	0.00	0.00
ATOM	586	HA3	GLY	X	39	44.591	66.534	30.552	0.00	0.00
ATOM	587	C	GLY	X	39	44.172	66.241	32.746	0.00	0.00

ATOM	588	O	GLY	X	39	44.625	65.649	33.712	0.00	0.00
ATOM	589	N	PRO	X	40	43.284	67.301	32.912	0.00	0.00
ATOM	590	CD	PRO	X	40	42.904	68.229	31.841	0.00	0.00
ATOM	591	HD2	PRO	X	40	42.084	67.818	31.252	0.00	0.00
ATOM	592	HD3	PRO	X	40	43.725	68.276	31.126	0.00	0.00
ATOM	593	CG	PRO	X	40	42.553	69.541	32.501	0.00	0.00
ATOM	594	HG2	PRO	X	40	41.734	70.034	31.978	0.00	0.00
ATOM	595	HG3	PRO	X	40	43.485	70.101	32.581	0.00	0.00
ATOM	596	CB	PRO	X	40	42.080	69.061	33.859	0.00	0.00
ATOM	597	HB2	PRO	X	40	40.996	68.960	33.807	0.00	0.00
ATOM	598	HB3	PRO	X	40	42.396	69.794	34.602	0.00	0.00
ATOM	599	CA	PRO	X	40	42.755	67.794	34.234	0.00	0.00
ATOM	600	HA	PRO	X	40	43.603	68.149	34.820	0.00	0.00
ATOM	601	C	PRO	X	40	41.849	66.822	34.943	0.00	0.00
ATOM	602	O	PRO	X	40	41.683	67.038	36.155	0.00	0.00
ATOM	603	N	ARG	X	41	41.154	65.980	34.193	0.00	0.00
ATOM	604	H	ARG	X	41	41.369	65.991	33.206	0.00	0.00
ATOM	605	CA	ARG	X	41	40.146	64.952	34.591	0.00	0.00
ATOM	606	HA	ARG	X	41	39.540	65.398	35.379	0.00	0.00
ATOM	607	CB	ARG	X	41	39.253	64.690	33.409	0.00	0.00
ATOM	608	HB2	ARG	X	41	39.798	64.619	32.468	0.00	0.00
ATOM	609	HB3	ARG	X	41	38.809	63.696	33.470	0.00	0.00
ATOM	610	CG	ARG	X	41	38.075	65.654	33.409	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.586	65.444	34.361	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.406	66.686	33.297	0.00	0.00
ATOM	613	CD	ARG	X	41	37.072	65.224	32.255	0.00	0.00
ATOM	614	HD2	ARG	X	41	37.588	65.165	31.297	0.00	0.00
ATOM	615	HD3	ARG	X	41	36.856	64.168	32.416	0.00	0.00
ATOM	616	NE	ARG	X	41	35.807	65.912	32.106	0.00	0.00
ATOM	617	HE	ARG	X	41	35.173	65.775	32.879	0.00	0.00
ATOM	618	CZ	ARG	X	41	35.530	66.774	31.103	0.00	0.00
ATOM	619	NH1	ARG	X	41	36.433	67.289	30.320	0.00	0.00
ATOM	620	HH11	ARG	X	41	37.407	67.060	30.453	0.00	0.00
ATOM	621	HH12	ARG	X	41	36.193	67.943	29.589	0.00	0.00
ATOM	622	NH2	ARG	X	41	34.306	67.005	30.808	0.00	0.00
ATOM	623	HH21	ARG	X	41	33.545	66.713	31.405	0.00	0.00
ATOM	624	HH22	ARG	X	41	34.075	67.438	29.925	0.00	0.00
ATOM	625	C	ARG	X	41	40.818	63.657	35.103	0.00	0.00
ATOM	626	O	ARG	X	41	40.197	62.694	35.584	0.00	0.00
ATOM	627	N	ARG	X	42	42.164	63.662	35.093	0.00	0.00
ATOM	628	H	ARG	X	42	42.688	64.315	34.528	0.00	0.00
ATOM	629	CA	ARG	X	42	43.030	62.651	35.677	0.00	0.00
ATOM	630	HA	ARG	X	42	42.738	61.651	35.356	0.00	0.00
ATOM	631	CB	ARG	X	42	44.420	62.905	35.077	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.272	63.061	34.009	0.00	0.00
ATOM	633	HB3	ARG	X	42	44.861	63.819	35.474	0.00	0.00
ATOM	634	CG	ARG	X	42	45.445	61.821	35.330	0.00	0.00
ATOM	635	HG2	ARG	X	42	45.512	61.643	36.403	0.00	0.00
ATOM	636	HG3	ARG	X	42	45.184	60.910	34.791	0.00	0.00
ATOM	637	CD	ARG	X	42	46.904	62.277	34.935	0.00	0.00
ATOM	638	HD2	ARG	X	42	47.113	63.173	35.520	0.00	0.00
ATOM	639	HD3	ARG	X	42	47.573	61.434	35.104	0.00	0.00
ATOM	640	NE	ARG	X	42	46.950	62.695	33.533	0.00	0.00
ATOM	641	HE	ARG	X	42	46.199	62.413	32.919	0.00	0.00
ATOM	642	CZ	ARG	X	42	48.028	63.214	32.978	0.00	0.00
ATOM	643	NH1	ARG	X	42	49.050	63.600	33.681	0.00	0.00
ATOM	644	HH11	ARG	X	42	49.117	63.517	34.686	0.00	0.00
ATOM	645	HH12	ARG	X	42	49.806	64.051	33.186	0.00	0.00
ATOM	646	NH2	ARG	X	42	48.039	63.352	31.631	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.419	62.851	31.011	0.00	0.00
ATOM	648	HH22	ARG	X	42	48.758	63.944	31.241	0.00	0.00
ATOM	649	C	ARG	X	42	43.051	62.718	37.179	0.00	0.00
ATOM	650	O	ARG	X	42	43.104	63.849	37.624	0.00	0.00
ATOM	651	N	PHE	X	43	43.017	61.608	37.919	0.00	0.00
ATOM	652	H	PHE	X	43	42.864	60.760	37.393	0.00	0.00
ATOM	653	CA	PHE	X	43	42.988	61.430	39.393	0.00	0.00
ATOM	654	HA	PHE	X	43	43.157	60.402	39.715	0.00	0.00

ATOM	655	CB	PHE	X	43	44.126	62.217	40.052	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.917	63.277	39.904	0.00	0.00
ATOM	657	HB3	PHE	X	43	44.002	62.139	41.132	0.00	0.00
ATOM	658	CG	PHE	X	43	45.596	61.932	39.547	0.00	0.00
ATOM	659	CD1	PHE	X	43	46.101	60.598	39.437	0.00	0.00
ATOM	660	HD1	PHE	X	43	45.510	59.741	39.723	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.364	60.362	38.979	0.00	0.00
ATOM	662	HE1	PHE	X	43	47.729	59.345	38.976	0.00	0.00
ATOM	663	CZ	PHE	X	43	48.234	61.471	38.707	0.00	0.00
ATOM	664	HZ	PHE	X	43	49.239	61.229	38.393	0.00	0.00
ATOM	665	CE2	PHE	X	43	47.744	62.725	38.771	0.00	0.00
ATOM	666	HE2	PHE	X	43	48.384	63.540	38.466	0.00	0.00
ATOM	667	CD2	PHE	X	43	46.434	62.976	39.201	0.00	0.00
ATOM	668	HD2	PHE	X	43	46.120	64.002	39.318	0.00	0.00
ATOM	669	C	PHE	X	43	41.628	61.776	40.010	0.00	0.00
ATOM	670	O	PHE	X	43	41.437	61.618	41.215	0.00	0.00
ATOM	671	N	LEU	X	44	40.643	62.295	39.268	0.00	0.00
ATOM	672	H	LEU	X	44	40.784	62.462	38.282	0.00	0.00
ATOM	673	CA	LEU	X	44	39.330	62.696	39.728	0.00	0.00
ATOM	674	HA	LEU	X	44	39.329	62.805	40.813	0.00	0.00
ATOM	675	CB	LEU	X	44	38.933	64.041	39.072	0.00	0.00
ATOM	676	HB2	LEU	X	44	38.921	63.867	37.996	0.00	0.00
ATOM	677	HB3	LEU	X	44	37.898	64.299	39.295	0.00	0.00
ATOM	678	CG	LEU	X	44	39.868	65.289	39.310	0.00	0.00
ATOM	679	HG	LEU	X	44	40.884	65.070	38.981	0.00	0.00
ATOM	680	CD1	LEU	X	44	39.263	66.547	38.652	0.00	0.00
ATOM	681	HD11	LEU	X	44	39.857	67.425	38.901	0.00	0.00
ATOM	682	HD12	LEU	X	44	38.270	66.604	39.098	0.00	0.00
ATOM	683	HD13	LEU	X	44	39.095	66.446	37.579	0.00	0.00
ATOM	684	CD2	LEU	X	44	39.873	65.661	40.791	0.00	0.00
ATOM	685	HD21	LEU	X	44	40.456	64.882	41.282	0.00	0.00
ATOM	686	HD22	LEU	X	44	40.329	66.633	40.979	0.00	0.00
ATOM	687	HD23	LEU	X	44	38.880	65.581	41.234	0.00	0.00
ATOM	688	C	LEU	X	44	38.295	61.623	39.323	0.00	0.00
ATOM	689	O	LEU	X	44	38.534	60.843	38.422	0.00	0.00
ATOM	690	N	PRO	X	45	37.138	61.609	39.980	0.00	0.00
ATOM	691	CD	PRO	X	45	36.941	62.181	41.350	0.00	0.00
ATOM	692	HD2	PRO	X	45	36.712	63.245	41.286	0.00	0.00
ATOM	693	HD3	PRO	X	45	37.768	62.041	42.046	0.00	0.00
ATOM	694	CG	PRO	X	45	35.761	61.487	41.942	0.00	0.00
ATOM	695	HG2	PRO	X	45	35.242	62.248	42.525	0.00	0.00
ATOM	696	HG3	PRO	X	45	36.043	60.677	42.614	0.00	0.00
ATOM	697	CB	PRO	X	45	34.925	61.033	40.729	0.00	0.00
ATOM	698	HB2	PRO	X	45	34.284	61.812	40.315	0.00	0.00
ATOM	699	HB3	PRO	X	45	34.339	60.128	40.890	0.00	0.00
ATOM	700	CA	PRO	X	45	36.001	60.773	39.631	0.00	0.00
ATOM	701	HA	PRO	X	45	36.353	59.754	39.792	0.00	0.00
ATOM	702	C	PRO	X	45	35.458	60.938	38.159	0.00	0.00
ATOM	703	O	PRO	X	45	35.422	62.056	37.702	0.00	0.00
ATOM	704	N	PRO	X	46	34.932	59.861	37.533	0.00	0.00
ATOM	705	CD	PRO	X	46	34.847	58.443	38.005	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.324	58.312	38.952	0.00	0.00
ATOM	707	HD3	PRO	X	46	35.833	58.013	38.186	0.00	0.00
ATOM	708	CG	PRO	X	46	34.051	57.780	36.892	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.010	58.023	37.106	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.263	56.719	36.766	0.00	0.00
ATOM	711	CB	PRO	X	46	34.446	58.553	35.671	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.783	58.452	34.812	0.00	0.00
ATOM	713	HB3	PRO	X	46	35.457	58.314	35.341	0.00	0.00
ATOM	714	CA	PRO	X	46	34.431	60.007	36.185	0.00	0.00
ATOM	715	HA	PRO	X	46	35.110	60.624	35.597	0.00	0.00
ATOM	716	C	PRO	X	46	33.001	60.505	36.176	0.00	0.00
ATOM	717	O	PRO	X	46	32.261	60.468	37.163	0.00	0.00
ATOM	718	N	GLU	X	47	32.535	60.994	34.979	0.00	0.00
ATOM	719	H	GLU	X	47	33.175	61.000	34.198	0.00	0.00
ATOM	720	CA	GLU	X	47	31.232	61.687	34.729	0.00	0.00
ATOM	721	HA	GLU	X	47	30.529	61.308	35.471	0.00	0.00

ATOM	722	CB	GLU	X	47	31.355	63.218	34.807	0.00	0.00
ATOM	723	HB2	GLU	X	47	30.356	63.655	34.811	0.00	0.00
ATOM	724	HB3	GLU	X	47	31.678	63.351	35.839	0.00	0.00
ATOM	725	CG	GLU	X	47	32.367	63.813	33.785	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.294	63.241	33.745	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.876	63.796	32.812	0.00	0.00
ATOM	728	CD	GLU	X	47	32.527	65.254	34.132	0.00	0.00
ATOM	729	OE1	GLU	X	47	33.656	65.734	34.068	0.00	0.00
ATOM	730	OE2	GLU	X	47	31.543	65.965	34.524	0.00	0.00
ATOM	731	C	GLU	X	47	30.681	61.235	33.367	0.00	0.00
ATOM	732	O	GLU	X	47	31.457	61.127	32.452	0.00	0.00
ATOM	733	N	PRO	X	48	29.369	61.001	33.263	0.00	0.00
ATOM	734	CD	PRO	X	48	28.343	61.483	34.184	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.337	62.536	34.464	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.504	60.918	35.102	0.00	0.00
ATOM	737	CG	PRO	X	48	27.065	61.137	33.477	0.00	0.00
ATOM	738	HG2	PRO	X	48	26.729	61.938	32.818	0.00	0.00
ATOM	739	HG3	PRO	X	48	26.310	60.957	34.242	0.00	0.00
ATOM	740	CB	PRO	X	48	27.358	59.888	32.623	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.615	59.900	31.826	0.00	0.00
ATOM	742	HB3	PRO	X	48	27.282	59.017	33.274	0.00	0.00
ATOM	743	CA	PRO	X	48	28.811	60.274	32.215	0.00	0.00
ATOM	744	HA	PRO	X	48	29.217	59.265	32.140	0.00	0.00
ATOM	745	C	PRO	X	48	28.851	60.975	30.843	0.00	0.00
ATOM	746	O	PRO	X	48	29.211	62.192	30.745	0.00	0.00
ATOM	747	N	LYS	X	49	28.596	60.181	29.830	0.00	0.00
ATOM	748	H	LYS	X	49	28.301	59.224	29.967	0.00	0.00
ATOM	749	CA	LYS	X	49	28.798	60.677	28.451	0.00	0.00
ATOM	750	HA	LYS	X	49	29.761	61.187	28.446	0.00	0.00
ATOM	751	CB	LYS	X	49	28.963	59.384	27.624	0.00	0.00
ATOM	752	HB2	LYS	X	49	29.975	59.020	27.804	0.00	0.00
ATOM	753	HB3	LYS	X	49	28.210	58.670	27.958	0.00	0.00
ATOM	754	CG	LYS	X	49	28.863	59.569	26.098	0.00	0.00
ATOM	755	HG2	LYS	X	49	28.741	58.583	25.650	0.00	0.00
ATOM	756	HG3	LYS	X	49	27.997	60.156	25.792	0.00	0.00
ATOM	757	CD	LYS	X	49	30.164	60.206	25.536	0.00	0.00
ATOM	758	HD2	LYS	X	49	30.293	61.237	25.868	0.00	0.00
ATOM	759	HD3	LYS	X	49	31.077	59.678	25.807	0.00	0.00
ATOM	760	CE	LYS	X	49	29.849	60.427	24.067	0.00	0.00
ATOM	761	HE2	LYS	X	49	29.493	59.506	23.606	0.00	0.00
ATOM	762	HE3	LYS	X	49	29.020	61.130	23.975	0.00	0.00
ATOM	763	NZ	LYS	X	49	31.098	60.889	23.419	0.00	0.00
ATOM	764	HZ1	LYS	X	49	31.146	61.867	23.171	0.00	0.00
ATOM	765	HZ2	LYS	X	49	31.962	60.535	23.803	0.00	0.00
ATOM	766	HZ3	LYS	X	49	31.128	60.533	22.474	0.00	0.00
ATOM	767	C	LYS	X	49	27.686	61.554	27.982	0.00	0.00
ATOM	768	O	LYS	X	49	26.508	61.183	28.018	0.00	0.00
ATOM	769	N	GLN	X	50	28.054	62.734	27.516	0.00	0.00
ATOM	770	H	GLN	X	50	29.015	63.044	27.490	0.00	0.00
ATOM	771	CA	GLN	X	50	27.009	63.676	27.046	0.00	0.00
ATOM	772	HA	GLN	X	50	26.267	63.848	27.825	0.00	0.00
ATOM	773	CB	GLN	X	50	27.744	64.996	26.701	0.00	0.00
ATOM	774	HB2	GLN	X	50	28.597	64.794	26.053	0.00	0.00
ATOM	775	HB3	GLN	X	50	27.037	65.620	26.154	0.00	0.00
ATOM	776	CG	GLN	X	50	28.214	65.756	27.898	0.00	0.00
ATOM	777	HG2	GLN	X	50	27.327	65.969	28.495	0.00	0.00
ATOM	778	HG3	GLN	X	50	28.853	65.160	28.549	0.00	0.00
ATOM	779	CD	GLN	X	50	28.839	67.042	27.508	0.00	0.00
ATOM	780	OE1	GLN	X	50	28.147	68.043	27.314	0.00	0.00
ATOM	781	NE2	GLN	X	50	30.139	67.075	27.384	0.00	0.00
ATOM	782	HE21	GLN	X	50	30.558	67.946	27.093	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.854	66.400	27.617	0.00	0.00
ATOM	784	C	GLN	X	50	26.345	63.087	25.804	0.00	0.00
ATOM	785	O	GLN	X	50	26.953	62.411	24.955	0.00	0.00
ATOM	786	N	PRO	X	51	24.996	63.340	25.614	0.00	0.00
ATOM	787	CD	PRO	X	51	24.195	64.191	26.467	0.00	0.00
ATOM	788	HD2	PRO	X	51	24.663	65.175	26.480	0.00	0.00

ATOM	789	HD3	PRO	X	51	23.986	63.678	27.406	0.00	0.00
ATOM	790	CG	PRO	X	51	22.878	64.387	25.747	0.00	0.00
ATOM	791	HG2	PRO	X	51	23.015	65.176	25.008	0.00	0.00
ATOM	792	HG3	PRO	X	51	22.008	64.590	26.371	0.00	0.00
ATOM	793	CB	PRO	X	51	22.621	63.107	24.919	0.00	0.00
ATOM	794	HB2	PRO	X	51	22.185	63.321	23.943	0.00	0.00
ATOM	795	HB3	PRO	X	51	22.174	62.324	25.532	0.00	0.00
ATOM	796	CA	PRO	X	51	24.046	62.729	24.583	0.00	0.00
ATOM	797	HA	PRO	X	51	24.188	61.650	24.517	0.00	0.00
ATOM	798	C	PRO	X	51	24.481	63.313	23.215	0.00	0.00
ATOM	799	O	PRO	X	51	24.437	64.505	22.997	0.00	0.00
ATOM	800	N	TRP	X	52	24.744	62.394	22.247	0.00	0.00
ATOM	801	H	TRP	X	52	24.732	61.427	22.538	0.00	0.00
ATOM	802	CA	TRP	X	52	25.295	62.761	20.926	0.00	0.00
ATOM	803	HA	TRP	X	52	25.888	63.673	20.999	0.00	0.00
ATOM	804	CB	TRP	X	52	26.326	61.630	20.699	0.00	0.00
ATOM	805	HB2	TRP	X	52	26.849	61.776	19.754	0.00	0.00
ATOM	806	HB3	TRP	X	52	27.182	61.712	21.369	0.00	0.00
ATOM	807	CG	TRP	X	52	25.798	60.211	20.575	0.00	0.00
ATOM	808	CD1	TRP	X	52	25.351	59.646	19.480	0.00	0.00
ATOM	809	HD1	TRP	X	52	25.237	60.152	18.533	0.00	0.00
ATOM	810	NE1	TRP	X	52	24.980	58.305	19.774	0.00	0.00
ATOM	811	HE1	TRP	X	52	24.723	57.624	19.074	0.00	0.00
ATOM	812	CE2	TRP	X	52	24.955	58.028	21.088	0.00	0.00
ATOM	813	CZ2	TRP	X	52	24.535	56.920	21.843	0.00	0.00
ATOM	814	HZ2	TRP	X	52	24.137	56.068	21.313	0.00	0.00
ATOM	815	CH2	TRP	X	52	24.730	56.928	23.220	0.00	0.00
ATOM	816	HH2	TRP	X	52	24.570	55.985	23.721	0.00	0.00
ATOM	817	CZ3	TRP	X	52	25.220	58.086	23.844	0.00	0.00
ATOM	818	HZ3	TRP	X	52	25.402	58.208	24.902	0.00	0.00
ATOM	819	CE3	TRP	X	52	25.482	59.275	23.094	0.00	0.00
ATOM	820	HE3	TRP	X	52	25.831	60.154	23.616	0.00	0.00
ATOM	821	CD2	TRP	X	52	25.478	59.256	21.670	0.00	0.00
ATOM	822	C	TRP	X	52	24.287	62.925	19.690	0.00	0.00
ATOM	823	O	TRP	X	52	23.141	62.499	19.763	0.00	0.00
ATOM	824	N	SER	X	53	24.754	63.368	18.495	0.00	0.00
ATOM	825	H	SER	X	53	25.716	63.664	18.407	0.00	0.00
ATOM	826	CA	SER	X	53	23.899	63.306	17.258	0.00	0.00
ATOM	827	HA	SER	X	53	22.847	63.543	17.417	0.00	0.00
ATOM	828	CB	SER	X	53	24.497	64.359	16.260	0.00	0.00
ATOM	829	HB2	SER	X	53	25.338	63.890	15.749	0.00	0.00
ATOM	830	HB3	SER	X	53	23.847	64.604	15.420	0.00	0.00
ATOM	831	OG	SER	X	53	25.039	65.553	16.903	0.00	0.00
ATOM	832	HG	SER	X	53	24.342	66.083	17.297	0.00	0.00
ATOM	833	C	SER	X	53	23.914	61.891	16.603	0.00	0.00
ATOM	834	O	SER	X	53	24.917	61.280	16.351	0.00	0.00
ATOM	835	N	GLY	X	54	22.732	61.440	16.132	0.00	0.00
ATOM	836	H	GLY	X	54	21.889	61.924	16.403	0.00	0.00
ATOM	837	CA	GLY	X	54	22.541	60.213	15.271	0.00	0.00
ATOM	838	HA2	GLY	X	54	21.505	60.110	14.950	0.00	0.00
ATOM	839	HA3	GLY	X	54	23.118	60.487	14.388	0.00	0.00
ATOM	840	C	GLY	X	54	23.139	58.887	15.676	0.00	0.00
ATOM	841	O	GLY	X	54	23.261	58.648	16.894	0.00	0.00
ATOM	842	N	VAL	X	55	23.571	58.129	14.738	0.00	0.00
ATOM	843	H	VAL	X	55	23.497	58.432	13.777	0.00	0.00
ATOM	844	CA	VAL	X	55	24.292	56.861	14.960	0.00	0.00
ATOM	845	HA	VAL	X	55	23.909	56.432	15.886	0.00	0.00
ATOM	846	CB	VAL	X	55	23.930	55.831	13.798	0.00	0.00
ATOM	847	HB	VAL	X	55	24.464	56.104	12.888	0.00	0.00
ATOM	848	CG1	VAL	X	55	24.487	54.434	14.213	0.00	0.00
ATOM	849	HG11	VAL	X	55	24.251	54.089	15.219	0.00	0.00
ATOM	850	HG12	VAL	X	55	24.151	53.632	13.555	0.00	0.00
ATOM	851	HG13	VAL	X	55	25.571	54.553	14.190	0.00	0.00
ATOM	852	CG2	VAL	X	55	22.422	55.788	13.574	0.00	0.00
ATOM	853	HG21	VAL	X	55	22.108	55.080	12.807	0.00	0.00
ATOM	854	HG22	VAL	X	55	22.004	56.684	13.116	0.00	0.00
ATOM	855	HG23	VAL	X	55	21.899	55.526	14.494	0.00	0.00

ATOM	856	C	VAL	X	55	25.756	57.148	15.000	0.00	0.00
ATOM	857	O	VAL	X	55	26.431	57.613	14.074	0.00	0.00
ATOM	858	N	VAL	X	56	26.285	56.886	16.213	0.00	0.00
ATOM	859	H	VAL	X	56	25.645	56.581	16.932	0.00	0.00
ATOM	860	CA	VAL	X	56	27.752	56.776	16.497	0.00	0.00
ATOM	861	HA	VAL	X	56	28.226	57.418	15.754	0.00	0.00
ATOM	862	CB	VAL	X	56	28.160	57.409	17.769	0.00	0.00
ATOM	863	HB	VAL	X	56	27.520	57.016	18.559	0.00	0.00
ATOM	864	CG1	VAL	X	56	29.645	57.180	18.198	0.00	0.00
ATOM	865	HG11	VAL	X	56	30.355	57.147	17.371	0.00	0.00
ATOM	866	HG12	VAL	X	56	29.887	57.938	18.943	0.00	0.00
ATOM	867	HG13	VAL	X	56	29.681	56.236	18.742	0.00	0.00
ATOM	868	CG2	VAL	X	56	27.967	58.992	17.678	0.00	0.00
ATOM	869	HG21	VAL	X	56	27.051	59.281	17.163	0.00	0.00
ATOM	870	HG22	VAL	X	56	28.850	59.394	17.180	0.00	0.00
ATOM	871	HG23	VAL	X	56	27.964	59.440	18.671	0.00	0.00
ATOM	872	C	VAL	X	56	28.229	55.337	16.341	0.00	0.00
ATOM	873	O	VAL	X	56	27.516	54.448	16.818	0.00	0.00
ATOM	874	N	ASP	X	57	29.436	55.147	15.751	0.00	0.00
ATOM	875	H	ASP	X	57	30.036	55.900	15.448	0.00	0.00
ATOM	876	CA	ASP	X	57	30.107	53.872	15.677	0.00	0.00
ATOM	877	HA	ASP	X	57	29.452	53.210	15.112	0.00	0.00
ATOM	878	CB	ASP	X	57	31.411	54.100	14.899	0.00	0.00
ATOM	879	HB2	ASP	X	57	31.219	54.558	13.929	0.00	0.00
ATOM	880	HB3	ASP	X	57	32.083	54.792	15.406	0.00	0.00
ATOM	881	CG	ASP	X	57	32.138	52.710	14.564	0.00	0.00
ATOM	882	OD1	ASP	X	57	32.213	52.289	13.389	0.00	0.00
ATOM	883	OD2	ASP	X	57	32.637	52.046	15.556	0.00	0.00
ATOM	884	C	ASP	X	57	30.364	53.192	17.014	0.00	0.00
ATOM	885	O	ASP	X	57	30.613	53.828	18.050	0.00	0.00
ATOM	886	N	ALA	X	58	30.209	51.881	17.038	0.00	0.00
ATOM	887	H	ALA	X	58	29.842	51.476	16.189	0.00	0.00
ATOM	888	CA	ALA	X	58	30.495	51.058	18.234	0.00	0.00
ATOM	889	HA	ALA	X	58	31.326	51.532	18.756	0.00	0.00
ATOM	890	CB	ALA	X	58	29.287	51.081	19.148	0.00	0.00
ATOM	891	HB1	ALA	X	58	29.553	50.755	20.154	0.00	0.00
ATOM	892	HB2	ALA	X	58	28.484	50.453	18.763	0.00	0.00
ATOM	893	HB3	ALA	X	58	28.897	52.097	19.213	0.00	0.00
ATOM	894	C	ALA	X	58	31.050	49.696	17.845	0.00	0.00
ATOM	895	O	ALA	X	58	30.788	48.668	18.529	0.00	0.00
ATOM	896	N	THR	X	59	31.816	49.595	16.808	0.00	0.00
ATOM	897	H	THR	X	59	32.041	50.469	16.354	0.00	0.00
ATOM	898	CA	THR	X	59	32.222	48.368	16.120	0.00	0.00
ATOM	899	HA	THR	X	59	31.521	47.549	16.281	0.00	0.00
ATOM	900	CB	THR	X	59	32.203	48.586	14.596	0.00	0.00
ATOM	901	HB	THR	X	59	32.496	47.651	14.119	0.00	0.00
ATOM	902	CG2	THR	X	59	30.875	49.016	13.958	0.00	0.00
ATOM	903	HG21	THR	X	59	30.088	48.321	14.249	0.00	0.00
ATOM	904	HG22	THR	X	59	30.987	49.027	12.874	0.00	0.00
ATOM	905	HG23	THR	X	59	30.603	49.985	14.374	0.00	0.00
ATOM	906	OG1	THR	X	59	33.053	49.594	14.220	0.00	0.00
ATOM	907	HG1	THR	X	59	32.639	50.457	14.147	0.00	0.00
ATOM	908	C	THR	X	59	33.549	47.876	16.528	0.00	0.00
ATOM	909	O	THR	X	59	33.978	46.758	16.220	0.00	0.00
ATOM	910	N	THR	X	60	34.357	48.662	17.314	0.00	0.00
ATOM	911	H	THR	X	60	33.969	49.547	17.606	0.00	0.00
ATOM	912	CA	THR	X	60	35.769	48.366	17.568	0.00	0.00
ATOM	913	HA	THR	X	60	35.934	47.291	17.640	0.00	0.00
ATOM	914	CB	THR	X	60	36.624	48.772	16.388	0.00	0.00
ATOM	915	HB	THR	X	60	36.161	48.295	15.524	0.00	0.00
ATOM	916	CG2	THR	X	60	36.751	50.232	16.143	0.00	0.00
ATOM	917	HG21	THR	X	60	36.858	50.763	17.089	0.00	0.00
ATOM	918	HG22	THR	X	60	35.841	50.531	15.621	0.00	0.00
ATOM	919	HG23	THR	X	60	37.587	50.279	15.446	0.00	0.00
ATOM	920	OG1	THR	X	60	37.872	48.288	16.682	0.00	0.00
ATOM	921	HG1	THR	X	60	38.431	48.635	15.982	0.00	0.00
ATOM	922	C	THR	X	60	36.317	49.002	18.913	0.00	0.00

ATOM	923	O	THR	X	60	35.964	50.139	19.266	0.00	0.00
ATOM	924	N	PHE	X	61	37.222	48.288	19.542	0.00	0.00
ATOM	925	H	PHE	X	61	37.418	47.325	19.307	0.00	0.00
ATOM	926	CA	PHE	X	61	38.084	48.848	20.561	0.00	0.00
ATOM	927	HA	PHE	X	61	37.437	49.158	21.381	0.00	0.00
ATOM	928	CB	PHE	X	61	39.057	47.718	21.128	0.00	0.00
ATOM	929	HB2	PHE	X	61	39.800	47.527	20.354	0.00	0.00
ATOM	930	HB3	PHE	X	61	39.558	48.071	22.030	0.00	0.00
ATOM	931	CG	PHE	X	61	38.467	46.414	21.532	0.00	0.00
ATOM	932	CD1	PHE	X	61	37.655	46.416	22.649	0.00	0.00
ATOM	933	HD1	PHE	X	61	37.427	47.271	23.269	0.00	0.00
ATOM	934	CE1	PHE	X	61	37.235	45.105	23.096	0.00	0.00
ATOM	935	HE1	PHE	X	61	36.856	44.950	24.096	0.00	0.00
ATOM	936	CZ	PHE	X	61	37.563	44.036	22.302	0.00	0.00
ATOM	937	HZ	PHE	X	61	37.255	43.041	22.590	0.00	0.00
ATOM	938	CE2	PHE	X	61	38.279	44.082	21.117	0.00	0.00
ATOM	939	HE2	PHE	X	61	38.510	43.153	20.617	0.00	0.00
ATOM	940	CD2	PHE	X	61	38.808	45.298	20.705	0.00	0.00
ATOM	941	HD2	PHE	X	61	39.459	45.340	19.843	0.00	0.00
ATOM	942	C	PHE	X	61	38.824	50.088	20.042	0.00	0.00
ATOM	943	O	PHE	X	61	39.717	49.880	19.218	0.00	0.00
ATOM	944	N	GLN	X	62	38.568	51.272	20.617	0.00	0.00
ATOM	945	H	GLN	X	62	37.994	51.264	21.448	0.00	0.00
ATOM	946	CA	GLN	X	62	39.141	52.548	20.158	0.00	0.00
ATOM	947	HA	GLN	X	62	39.400	52.443	19.105	0.00	0.00
ATOM	948	CB	GLN	X	62	38.029	53.634	20.245	0.00	0.00
ATOM	949	HB2	GLN	X	62	37.656	53.568	21.267	0.00	0.00
ATOM	950	HB3	GLN	X	62	38.530	54.572	20.008	0.00	0.00
ATOM	951	CG	GLN	X	62	36.855	53.477	19.296	0.00	0.00
ATOM	952	HG2	GLN	X	62	37.201	53.375	18.267	0.00	0.00
ATOM	953	HG3	GLN	X	62	36.285	52.589	19.569	0.00	0.00
ATOM	954	CD	GLN	X	62	35.833	54.639	19.341	0.00	0.00
ATOM	955	OE1	GLN	X	62	36.139	55.716	18.796	0.00	0.00
ATOM	956	NE2	GLN	X	62	34.780	54.513	20.108	0.00	0.00
ATOM	957	HE21	GLN	X	62	34.147	55.299	20.153	0.00	0.00
ATOM	958	HE22	GLN	X	62	34.507	53.569	20.342	0.00	0.00
ATOM	959	C	GLN	X	62	40.407	52.932	20.924	0.00	0.00
ATOM	960	O	GLN	X	62	41.069	53.816	20.415	0.00	0.00
ATOM	961	N	SER	X	63	40.765	52.220	22.046	0.00	0.00
ATOM	962	H	SER	X	63	40.081	51.534	22.331	0.00	0.00
ATOM	963	CA	SER	X	63	41.947	52.295	22.908	0.00	0.00
ATOM	964	HA	SER	X	63	42.837	52.009	22.348	0.00	0.00
ATOM	965	CB	SER	X	63	42.387	53.743	23.304	0.00	0.00
ATOM	966	HB2	SER	X	63	43.145	53.659	24.083	0.00	0.00
ATOM	967	HB3	SER	X	63	42.673	54.326	22.428	0.00	0.00
ATOM	968	OG	SER	X	63	41.234	54.409	23.844	0.00	0.00
ATOM	969	HG	SER	X	63	41.456	55.321	24.044	0.00	0.00
ATOM	970	C	SER	X	63	41.807	51.239	24.016	0.00	0.00
ATOM	971	O	SER	X	63	40.763	50.592	24.183	0.00	0.00
ATOM	972	N	VAL	X	64	42.843	51.231	24.835	0.00	0.00
ATOM	973	H	VAL	X	64	43.683	51.660	24.474	0.00	0.00
ATOM	974	CA	VAL	X	64	42.980	50.753	26.222	0.00	0.00
ATOM	975	HA	VAL	X	64	41.966	50.762	26.620	0.00	0.00
ATOM	976	CB	VAL	X	64	43.522	49.296	26.314	0.00	0.00
ATOM	977	HB	VAL	X	64	43.678	48.997	27.351	0.00	0.00
ATOM	978	CG1	VAL	X	64	42.658	48.208	25.740	0.00	0.00
ATOM	979	HG11	VAL	X	64	41.684	48.095	26.217	0.00	0.00
ATOM	980	HG12	VAL	X	64	42.485	48.513	24.708	0.00	0.00
ATOM	981	HG13	VAL	X	64	43.210	47.268	25.756	0.00	0.00
ATOM	982	CG2	VAL	X	64	44.935	49.178	25.634	0.00	0.00
ATOM	983	HG21	VAL	X	64	44.880	49.252	24.547	0.00	0.00
ATOM	984	HG22	VAL	X	64	45.359	48.193	25.829	0.00	0.00
ATOM	985	HG23	VAL	X	64	45.689	49.905	25.935	0.00	0.00
ATOM	986	C	VAL	X	64	43.804	51.711	27.112	0.00	0.00
ATOM	987	O	VAL	X	64	44.231	52.787	26.695	0.00	0.00
ATOM	988	N	CYX	X	65	43.795	51.432	28.432	0.00	0.00
ATOM	989	H	CYX	X	65	43.296	50.608	28.735	0.00	0.00

ATOM	990	CA	CYX	X	65	44.558	52.310	29.332	0.00	0.00
ATOM	991	HA	CYX	X	65	44.163	53.317	29.195	0.00	0.00
ATOM	992	CB	CYX	X	65	44.078	51.948	30.741	0.00	0.00
ATOM	993	HB2	CYX	X	65	44.332	50.926	31.022	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.649	52.577	31.424	0.00	0.00
ATOM	995	SG	CYX	X	65	42.285	52.186	31.058	0.00	0.00
ATOM	996	C	CYX	X	65	46.061	52.272	29.261	0.00	0.00
ATOM	997	O	CYX	X	65	46.580	51.170	29.013	0.00	0.00
ATOM	998	N	TYR	X	66	46.692	53.371	29.565	0.00	0.00
ATOM	999	H	TYR	X	66	46.246	54.270	29.449	0.00	0.00
ATOM	1000	CA	TYR	X	66	48.092	53.336	30.165	0.00	0.00
ATOM	1001	HA	TYR	X	66	48.652	52.934	29.320	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.558	54.721	30.479	0.00	0.00
ATOM	1003	HB2	TYR	X	66	47.861	55.182	31.180	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.582	54.676	30.848	0.00	0.00
ATOM	1005	CG	TYR	X	66	48.709	55.490	29.188	0.00	0.00
ATOM	1006	CD1	TYR	X	66	47.949	56.667	28.987	0.00	0.00
ATOM	1007	HD1	TYR	X	66	47.169	56.890	29.700	0.00	0.00
ATOM	1008	CE1	TYR	X	66	48.246	57.513	27.837	0.00	0.00
ATOM	1009	HE1	TYR	X	66	47.592	58.345	27.620	0.00	0.00
ATOM	1010	CZ	TYR	X	66	49.392	57.279	27.052	0.00	0.00
ATOM	1011	OH	TYR	X	66	49.798	58.131	26.134	0.00	0.00
ATOM	1012	HH	TYR	X	66	49.227	58.901	26.094	0.00	0.00
ATOM	1013	CE2	TYR	X	66	50.109	56.078	27.273	0.00	0.00
ATOM	1014	HE2	TYR	X	66	50.981	55.844	26.682	0.00	0.00
ATOM	1015	CD2	TYR	X	66	49.776	55.211	28.329	0.00	0.00
ATOM	1016	HD2	TYR	X	66	50.443	54.395	28.567	0.00	0.00
ATOM	1017	C	TYR	X	66	48.296	52.297	31.340	0.00	0.00
ATOM	1018	O	TYR	X	66	47.432	52.057	32.196	0.00	0.00
ATOM	1019	N	GLN	X	67	49.480	51.646	31.413	0.00	0.00
ATOM	1020	H	GLN	X	67	50.101	51.812	30.634	0.00	0.00
ATOM	1021	CA	GLN	X	67	49.768	50.603	32.379	0.00	0.00
ATOM	1022	HA	GLN	X	67	49.658	51.067	33.359	0.00	0.00
ATOM	1023	CB	GLN	X	67	48.822	49.364	32.242	0.00	0.00
ATOM	1024	HB2	GLN	X	67	48.952	48.693	33.092	0.00	0.00
ATOM	1025	HB3	GLN	X	67	47.885	49.824	32.556	0.00	0.00
ATOM	1026	CG	GLN	X	67	48.876	48.695	30.871	0.00	0.00
ATOM	1027	HG2	GLN	X	67	48.913	49.459	30.094	0.00	0.00
ATOM	1028	HG3	GLN	X	67	49.784	48.091	30.849	0.00	0.00
ATOM	1029	CD	GLN	X	67	47.636	47.875	30.542	0.00	0.00
ATOM	1030	OE1	GLN	X	67	47.645	46.662	30.811	0.00	0.00
ATOM	1031	NE2	GLN	X	67	46.554	48.486	30.054	0.00	0.00
ATOM	1032	HE21	GLN	X	67	45.694	48.022	30.309	0.00	0.00
ATOM	1033	HE22	GLN	X	67	46.512	49.478	29.865	0.00	0.00
ATOM	1034	C	GLN	X	67	51.230	50.010	32.338	0.00	0.00
ATOM	1035	O	GLN	X	67	51.943	50.414	31.403	0.00	0.00
ATOM	1036	N	TYR	X	68	51.625	49.074	33.238	0.00	0.00
ATOM	1037	H	TYR	X	68	51.164	48.911	34.122	0.00	0.00
ATOM	1038	CA	TYR	X	68	52.865	48.385	33.011	0.00	0.00
ATOM	1039	HA	TYR	X	68	53.665	49.011	32.616	0.00	0.00
ATOM	1040	CB	TYR	X	68	53.400	47.903	34.421	0.00	0.00
ATOM	1041	HB2	TYR	X	68	53.475	48.804	35.029	0.00	0.00
ATOM	1042	HB3	TYR	X	68	52.699	47.295	34.992	0.00	0.00
ATOM	1043	CG	TYR	X	68	54.678	47.141	34.431	0.00	0.00
ATOM	1044	CD1	TYR	X	68	56.003	47.781	34.259	0.00	0.00
ATOM	1045	HD1	TYR	X	68	56.202	48.828	34.435	0.00	0.00
ATOM	1046	CE1	TYR	X	68	57.133	46.976	34.153	0.00	0.00
ATOM	1047	HE1	TYR	X	68	58.089	47.470	34.241	0.00	0.00
ATOM	1048	CZ	TYR	X	68	57.034	45.604	33.933	0.00	0.00
ATOM	1049	OH	TYR	X	68	58.187	44.914	33.855	0.00	0.00
ATOM	1050	HH	TYR	X	68	58.943	45.463	34.072	0.00	0.00
ATOM	1051	CE2	TYR	X	68	55.761	44.964	34.104	0.00	0.00
ATOM	1052	HE2	TYR	X	68	55.765	43.885	34.141	0.00	0.00
ATOM	1053	CD2	TYR	X	68	54.574	45.762	34.260	0.00	0.00
ATOM	1054	HD2	TYR	X	68	53.634	45.256	34.423	0.00	0.00
ATOM	1055	C	TYR	X	68	52.583	47.145	32.067	0.00	0.00
ATOM	1056	O	TYR	X	68	51.540	46.463	32.141	0.00	0.00

ATOM	1057	N	VAL	X	69	53.650	46.794	31.344	0.00	0.00
ATOM	1058	H	VAL	X	69	54.524	47.301	31.336	0.00	0.00
ATOM	1059	CA	VAL	X	69	53.689	45.706	30.314	0.00	0.00
ATOM	1060	HA	VAL	X	69	52.853	45.041	30.529	0.00	0.00
ATOM	1061	CB	VAL	X	69	53.619	46.290	28.883	0.00	0.00
ATOM	1062	HB	VAL	X	69	54.343	47.101	28.808	0.00	0.00
ATOM	1063	CG1	VAL	X	69	53.611	45.197	27.774	0.00	0.00
ATOM	1064	HG11	VAL	X	69	53.408	45.605	26.784	0.00	0.00
ATOM	1065	HG12	VAL	X	69	54.622	44.791	27.770	0.00	0.00
ATOM	1066	HG13	VAL	X	69	52.889	44.413	28.003	0.00	0.00
ATOM	1067	CG2	VAL	X	69	52.280	47.023	28.687	0.00	0.00
ATOM	1068	HG21	VAL	X	69	52.414	48.030	29.083	0.00	0.00
ATOM	1069	HG22	VAL	X	69	51.479	46.530	29.238	0.00	0.00
ATOM	1070	HG23	VAL	X	69	52.060	47.229	27.640	0.00	0.00
ATOM	1071	C	VAL	X	69	54.972	44.889	30.534	0.00	0.00
ATOM	1072	O	VAL	X	69	56.041	45.510	30.409	0.00	0.00
ATOM	1073	N	ASP	X	70	54.810	43.575	30.585	0.00	0.00
ATOM	1074	H	ASP	X	70	53.849	43.268	30.535	0.00	0.00
ATOM	1075	CA	ASP	X	70	55.885	42.622	30.829	0.00	0.00
ATOM	1076	HA	ASP	X	70	56.144	42.713	31.883	0.00	0.00
ATOM	1077	CB	ASP	X	70	55.415	41.163	30.684	0.00	0.00
ATOM	1078	HB2	ASP	X	70	54.397	41.123	31.072	0.00	0.00
ATOM	1079	HB3	ASP	X	70	55.387	40.837	29.644	0.00	0.00
ATOM	1080	CG	ASP	X	70	56.331	40.178	31.528	0.00	0.00
ATOM	1081	OD1	ASP	X	70	57.576	40.184	31.481	0.00	0.00
ATOM	1082	OD2	ASP	X	70	55.657	39.284	32.007	0.00	0.00
ATOM	1083	C	ASP	X	70	57.197	42.796	29.931	0.00	0.00
ATOM	1084	O	ASP	X	70	57.024	42.648	28.694	0.00	0.00
ATOM	1085	N	THR	X	71	58.411	43.211	30.397	0.00	0.00
ATOM	1086	H	THR	X	71	58.537	43.283	31.397	0.00	0.00
ATOM	1087	CA	THR	X	71	59.694	43.128	29.667	0.00	0.00
ATOM	1088	HA	THR	X	71	59.543	43.108	28.588	0.00	0.00
ATOM	1089	CB	THR	X	71	60.512	44.375	30.049	0.00	0.00
ATOM	1090	HB	THR	X	71	61.472	44.329	29.536	0.00	0.00
ATOM	1091	CG2	THR	X	71	59.745	45.567	29.513	0.00	0.00
ATOM	1092	HG21	THR	X	71	58.806	45.712	30.048	0.00	0.00
ATOM	1093	HG22	THR	X	71	59.595	45.430	28.442	0.00	0.00
ATOM	1094	HG23	THR	X	71	60.304	46.488	29.676	0.00	0.00
ATOM	1095	OG1	THR	X	71	60.629	44.356	31.478	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.389	43.806	31.680	0.00	0.00
ATOM	1097	C	THR	X	71	60.452	41.838	29.907	0.00	0.00
ATOM	1098	O	THR	X	71	61.442	41.625	29.244	0.00	0.00
ATOM	1099	N	LEU	X	72	60.150	41.047	30.910	0.00	0.00
ATOM	1100	H	LEU	X	72	59.209	41.136	31.266	0.00	0.00
ATOM	1101	CA	LEU	X	72	60.943	39.896	31.394	0.00	0.00
ATOM	1102	HA	LEU	X	72	62.012	40.112	31.385	0.00	0.00
ATOM	1103	CB	LEU	X	72	60.432	39.571	32.797	0.00	0.00
ATOM	1104	HB2	LEU	X	72	60.368	40.510	33.347	0.00	0.00
ATOM	1105	HB3	LEU	X	72	59.466	39.072	32.731	0.00	0.00
ATOM	1106	CG	LEU	X	72	61.478	38.737	33.564	0.00	0.00
ATOM	1107	HG	LEU	X	72	61.568	37.744	33.125	0.00	0.00
ATOM	1108	CD1	LEU	X	72	62.857	39.400	33.618	0.00	0.00
ATOM	1109	HD11	LEU	X	72	63.346	39.355	32.645	0.00	0.00
ATOM	1110	HD12	LEU	X	72	63.396	38.782	34.335	0.00	0.00
ATOM	1111	HD13	LEU	X	72	62.797	40.407	34.030	0.00	0.00
ATOM	1112	CD2	LEU	X	72	60.891	38.666	34.984	0.00	0.00
ATOM	1113	HD21	LEU	X	72	60.723	39.643	35.437	0.00	0.00
ATOM	1114	HD22	LEU	X	72	59.879	38.282	34.854	0.00	0.00
ATOM	1115	HD23	LEU	X	72	61.494	38.076	35.673	0.00	0.00
ATOM	1116	C	LEU	X	72	60.824	38.773	30.324	0.00	0.00
ATOM	1117	O	LEU	X	72	61.805	38.189	29.894	0.00	0.00
ATOM	1118	N	TYR	X	73	59.566	38.516	30.007	0.00	0.00
ATOM	1119	H	TYR	X	73	59.028	38.844	30.796	0.00	0.00
ATOM	1120	CA	TYR	X	73	59.129	37.377	29.177	0.00	0.00
ATOM	1121	HA	TYR	X	73	59.967	36.977	28.606	0.00	0.00
ATOM	1122	CB	TYR	X	73	58.555	36.223	30.046	0.00	0.00
ATOM	1123	HB2	TYR	X	73	57.604	36.569	30.449	0.00	0.00

ATOM	1124	HB3	TYR	X	73	58.498	35.396	29.338	0.00	0.00
ATOM	1125	CG	TYR	X	73	59.402	35.829	31.219	0.00	0.00
ATOM	1126	CD1	TYR	X	73	60.740	35.648	31.115	0.00	0.00
ATOM	1127	HD1	TYR	X	73	61.221	35.692	30.149	0.00	0.00
ATOM	1128	CE1	TYR	X	73	61.556	35.298	32.228	0.00	0.00
ATOM	1129	HE1	TYR	X	73	62.548	34.884	32.123	0.00	0.00
ATOM	1130	CZ	TYR	X	73	60.960	35.259	33.490	0.00	0.00
ATOM	1131	OH	TYR	X	73	61.719	34.847	34.513	0.00	0.00
ATOM	1132	HH	TYR	X	73	61.235	35.054	35.315	0.00	0.00
ATOM	1133	CE2	TYR	X	73	59.611	35.617	33.656	0.00	0.00
ATOM	1134	HE2	TYR	X	73	59.176	35.614	34.645	0.00	0.00
ATOM	1135	CD2	TYR	X	73	58.873	35.849	32.519	0.00	0.00
ATOM	1136	HD2	TYR	X	73	57.838	36.144	32.602	0.00	0.00
ATOM	1137	C	TYR	X	73	58.221	37.885	28.024	0.00	0.00
ATOM	1138	O	TYR	X	73	57.410	37.022	27.611	0.00	0.00
ATOM	1139	N	PRO	X	74	58.457	39.060	27.403	0.00	0.00
ATOM	1140	CD	PRO	X	74	59.389	40.125	27.665	0.00	0.00
ATOM	1141	HD2	PRO	X	74	60.382	39.844	28.018	0.00	0.00
ATOM	1142	HD3	PRO	X	74	58.901	40.768	28.397	0.00	0.00
ATOM	1143	CG	PRO	X	74	59.491	41.005	26.414	0.00	0.00
ATOM	1144	HG2	PRO	X	74	60.131	40.507	25.686	0.00	0.00
ATOM	1145	HG3	PRO	X	74	59.829	42.020	26.619	0.00	0.00
ATOM	1146	CB	PRO	X	74	58.108	40.866	25.827	0.00	0.00
ATOM	1147	HB2	PRO	X	74	58.134	41.076	24.757	0.00	0.00
ATOM	1148	HB3	PRO	X	74	57.449	41.582	26.318	0.00	0.00
ATOM	1149	CA	PRO	X	74	57.732	39.413	26.130	0.00	0.00
ATOM	1150	HA	PRO	X	74	56.688	39.212	26.371	0.00	0.00
ATOM	1151	C	PRO	X	74	58.123	38.447	25.026	0.00	0.00
ATOM	1152	O	PRO	X	74	59.271	37.900	25.050	0.00	0.00
ATOM	1153	N	GLY	X	75	57.212	38.082	24.066	0.00	0.00
ATOM	1154	H	GLY	X	75	56.435	38.699	23.882	0.00	0.00
ATOM	1155	CA	GLY	X	75	57.468	37.126	23.059	0.00	0.00
ATOM	1156	HA2	GLY	X	75	56.656	37.341	22.365	0.00	0.00
ATOM	1157	HA3	GLY	X	75	58.484	37.269	22.691	0.00	0.00
ATOM	1158	C	GLY	X	75	57.276	35.639	23.402	0.00	0.00
ATOM	1159	O	GLY	X	75	57.289	34.808	22.512	0.00	0.00
ATOM	1160	N	PHE	X	76	57.085	35.305	24.735	0.00	0.00
ATOM	1161	H	PHE	X	76	57.163	36.105	25.347	0.00	0.00
ATOM	1162	CA	PHE	X	76	56.653	34.032	25.234	0.00	0.00
ATOM	1163	HA	PHE	X	76	56.957	33.242	24.548	0.00	0.00
ATOM	1164	CB	PHE	X	76	57.303	33.821	26.677	0.00	0.00
ATOM	1165	HB2	PHE	X	76	58.388	33.868	26.576	0.00	0.00
ATOM	1166	HB3	PHE	X	76	57.105	34.682	27.315	0.00	0.00
ATOM	1167	CG	PHE	X	76	56.882	32.560	27.494	0.00	0.00
ATOM	1168	CD1	PHE	X	76	56.835	31.308	26.830	0.00	0.00
ATOM	1169	HD1	PHE	X	76	57.160	31.285	25.801	0.00	0.00
ATOM	1170	CE1	PHE	X	76	56.315	30.215	27.472	0.00	0.00
ATOM	1171	HE1	PHE	X	76	56.204	29.340	26.848	0.00	0.00
ATOM	1172	CZ	PHE	X	76	55.811	30.341	28.776	0.00	0.00
ATOM	1173	HZ	PHE	X	76	55.405	29.479	29.283	0.00	0.00
ATOM	1174	CE2	PHE	X	76	55.784	31.588	29.389	0.00	0.00
ATOM	1175	HE2	PHE	X	76	55.529	31.547	30.438	0.00	0.00
ATOM	1176	CD2	PHE	X	76	56.451	32.636	28.811	0.00	0.00
ATOM	1177	HD2	PHE	X	76	56.388	33.505	29.449	0.00	0.00
ATOM	1178	C	PHE	X	76	55.094	33.940	25.306	0.00	0.00
ATOM	1179	O	PHE	X	76	54.516	34.838	25.868	0.00	0.00
ATOM	1180	N	GLU	X	77	54.518	32.875	24.753	0.00	0.00
ATOM	1181	H	GLU	X	77	55.074	32.130	24.357	0.00	0.00
ATOM	1182	CA	GLU	X	77	53.000	32.796	24.718	0.00	0.00
ATOM	1183	HA	GLU	X	77	52.643	33.630	24.114	0.00	0.00
ATOM	1184	CB	GLU	X	77	52.597	31.468	24.184	0.00	0.00
ATOM	1185	HB2	GLU	X	77	53.087	30.794	24.885	0.00	0.00
ATOM	1186	HB3	GLU	X	77	51.519	31.307	24.161	0.00	0.00
ATOM	1187	CG	GLU	X	77	53.153	31.068	22.777	0.00	0.00
ATOM	1188	HG2	GLU	X	77	54.229	31.237	22.742	0.00	0.00
ATOM	1189	HG3	GLU	X	77	52.989	30.004	22.608	0.00	0.00
ATOM	1190	CD	GLU	X	77	52.568	31.999	21.734	0.00	0.00

ATOM	1191	OE1	GLU	X	77	51.344	31.975	21.374	0.00	0.00
ATOM	1192	OE2	GLU	X	77	53.206	33.002	21.352	0.00	0.00
ATOM	1193	C	GLU	X	77	52.324	32.975	26.123	0.00	0.00
ATOM	1194	O	GLU	X	77	51.349	33.689	26.229	0.00	0.00
ATOM	1195	N	GLY	X	78	52.927	32.396	27.171	0.00	0.00
ATOM	1196	H	GLY	X	78	53.872	32.114	26.953	0.00	0.00
ATOM	1197	CA	GLY	X	78	52.454	32.455	28.564	0.00	0.00
ATOM	1198	HA2	GLY	X	78	51.452	32.030	28.625	0.00	0.00
ATOM	1199	HA3	GLY	X	78	53.166	31.828	29.100	0.00	0.00
ATOM	1200	C	GLY	X	78	52.459	33.801	29.211	0.00	0.00
ATOM	1201	O	GLY	X	78	51.811	34.109	30.219	0.00	0.00
ATOM	1202	N	THR	X	79	53.029	34.827	28.587	0.00	0.00
ATOM	1203	H	THR	X	79	53.541	34.546	27.763	0.00	0.00
ATOM	1204	CA	THR	X	79	53.054	36.291	28.930	0.00	0.00
ATOM	1205	HA	THR	X	79	52.481	36.610	29.801	0.00	0.00
ATOM	1206	CB	THR	X	79	54.464	36.673	29.088	0.00	0.00
ATOM	1207	HB	THR	X	79	55.075	36.365	28.239	0.00	0.00
ATOM	1208	CG2	THR	X	79	54.774	38.151	29.237	0.00	0.00
ATOM	1209	HG21	THR	X	79	54.653	38.612	28.257	0.00	0.00
ATOM	1210	HG22	THR	X	79	55.764	38.306	29.665	0.00	0.00
ATOM	1211	HG23	THR	X	79	54.133	38.685	29.938	0.00	0.00
ATOM	1212	OG1	THR	X	79	54.904	35.870	30.181	0.00	0.00
ATOM	1213	HG1	THR	X	79	55.557	36.350	30.696	0.00	0.00
ATOM	1214	C	THR	X	79	52.371	37.219	27.858	0.00	0.00
ATOM	1215	O	THR	X	79	51.608	38.075	28.334	0.00	0.00
ATOM	1216	N	GLU	X	80	52.541	37.034	26.572	0.00	0.00
ATOM	1217	H	GLU	X	80	53.170	36.272	26.363	0.00	0.00
ATOM	1218	CA	GLU	X	80	51.969	37.732	25.435	0.00	0.00
ATOM	1219	HA	GLU	X	80	52.058	38.806	25.600	0.00	0.00
ATOM	1220	CB	GLU	X	80	52.869	37.405	24.207	0.00	0.00
ATOM	1221	HB2	GLU	X	80	53.913	37.319	24.508	0.00	0.00
ATOM	1222	HB3	GLU	X	80	52.662	36.461	23.703	0.00	0.00
ATOM	1223	CG	GLU	X	80	52.799	38.529	23.152	0.00	0.00
ATOM	1224	HG2	GLU	X	80	51.823	38.543	22.668	0.00	0.00
ATOM	1225	HG3	GLU	X	80	53.090	39.476	23.606	0.00	0.00
ATOM	1226	CD	GLU	X	80	53.811	38.155	22.012	0.00	0.00
ATOM	1227	OE1	GLU	X	80	54.743	38.943	21.666	0.00	0.00
ATOM	1228	OE2	GLU	X	80	53.535	37.151	21.347	0.00	0.00
ATOM	1229	C	GLU	X	80	50.438	37.495	25.174	0.00	0.00
ATOM	1230	O	GLU	X	80	49.813	38.362	24.565	0.00	0.00
ATOM	1231	N	MET	X	81	49.850	36.399	25.650	0.00	0.00
ATOM	1232	H	MET	X	81	50.428	35.620	25.931	0.00	0.00
ATOM	1233	CA	MET	X	81	48.427	36.371	25.901	0.00	0.00
ATOM	1234	HA	MET	X	81	47.944	36.334	24.925	0.00	0.00
ATOM	1235	CB	MET	X	81	48.039	35.062	26.566	0.00	0.00
ATOM	1236	HB2	MET	X	81	46.956	35.177	26.626	0.00	0.00
ATOM	1237	HB3	MET	X	81	48.261	34.200	25.938	0.00	0.00
ATOM	1238	CG	MET	X	81	48.506	34.646	27.956	0.00	0.00
ATOM	1239	HG2	MET	X	81	49.593	34.730	27.919	0.00	0.00
ATOM	1240	HG3	MET	X	81	48.065	35.353	28.658	0.00	0.00
ATOM	1241	SD	MET	X	81	48.007	32.957	28.240	0.00	0.00
ATOM	1242	CE	MET	X	81	46.270	33.368	28.755	0.00	0.00
ATOM	1243	HE1	MET	X	81	45.798	33.940	27.955	0.00	0.00
ATOM	1244	HE2	MET	X	81	45.749	32.426	28.924	0.00	0.00
ATOM	1245	HE3	MET	X	81	46.165	33.858	29.723	0.00	0.00
ATOM	1246	C	MET	X	81	47.870	37.560	26.669	0.00	0.00
ATOM	1247	O	MET	X	81	46.795	37.955	26.315	0.00	0.00
ATOM	1248	N	TRP	X	82	48.655	38.104	27.567	0.00	0.00
ATOM	1249	H	TRP	X	82	49.538	37.639	27.726	0.00	0.00
ATOM	1250	CA	TRP	X	82	48.277	39.278	28.352	0.00	0.00
ATOM	1251	HA	TRP	X	82	47.192	39.387	28.330	0.00	0.00
ATOM	1252	CB	TRP	X	82	48.669	39.097	29.854	0.00	0.00
ATOM	1253	HB2	TRP	X	82	49.630	39.573	30.049	0.00	0.00
ATOM	1254	HB3	TRP	X	82	47.972	39.728	30.405	0.00	0.00
ATOM	1255	CG	TRP	X	82	48.573	37.752	30.520	0.00	0.00
ATOM	1256	CD1	TRP	X	82	49.535	36.881	30.777	0.00	0.00
ATOM	1257	HD1	TRP	X	82	50.584	37.049	30.585	0.00	0.00

ATOM	1258	NE1	TRP	X	82	49.048	35.775	31.368	0.00	0.00
ATOM	1259	HE1	TRP	X	82	49.542	34.977	31.742	0.00	0.00
ATOM	1260	CE2	TRP	X	82	47.671	35.756	31.374	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	46.689	34.864	31.798	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	46.933	33.862	32.117	0.00	0.00
ATOM	1263	CH2	TRP	X	82	45.381	35.254	31.762	0.00	0.00
ATOM	1264	HH2	TRP	X	82	44.592	34.575	32.050	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	45.000	36.553	31.405	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	43.985	36.917	31.461	0.00	0.00
ATOM	1267	CE3	TRP	X	82	46.029	37.426	30.920	0.00	0.00
ATOM	1268	HE3	TRP	X	82	45.760	38.422	30.601	0.00	0.00
ATOM	1269	CD2	TRP	X	82	47.394	37.097	30.947	0.00	0.00
ATOM	1270	C	TRP	X	82	48.878	40.568	27.760	0.00	0.00
ATOM	1271	O	TRP	X	82	48.629	41.623	28.333	0.00	0.00
ATOM	1272	N	ASN	X	83	49.570	40.592	26.657	0.00	0.00
ATOM	1273	H	ASN	X	83	49.759	39.809	26.047	0.00	0.00
ATOM	1274	CA	ASN	X	83	50.099	41.879	26.099	0.00	0.00
ATOM	1275	HA	ASN	X	83	50.681	42.379	26.873	0.00	0.00
ATOM	1276	CB	ASN	X	83	51.139	41.607	25.013	0.00	0.00
ATOM	1277	HB2	ASN	X	83	51.824	40.834	25.360	0.00	0.00
ATOM	1278	HB3	ASN	X	83	50.632	41.216	24.131	0.00	0.00
ATOM	1279	CG	ASN	X	83	51.918	42.933	24.659	0.00	0.00
ATOM	1280	OD1	ASN	X	83	51.445	43.758	23.880	0.00	0.00
ATOM	1281	ND2	ASN	X	83	53.024	43.091	25.222	0.00	0.00
ATOM	1282	HD21	ASN	X	83	53.566	43.919	25.019	0.00	0.00
ATOM	1283	HD22	ASN	X	83	53.273	42.353	25.864	0.00	0.00
ATOM	1284	C	ASN	X	83	48.997	42.700	25.546	0.00	0.00
ATOM	1285	O	ASN	X	83	48.193	42.069	24.809	0.00	0.00
ATOM	1286	N	PRO	X	84	48.999	44.050	25.753	0.00	0.00
ATOM	1287	CD	PRO	X	84	49.814	44.762	26.715	0.00	0.00
ATOM	1288	HD2	PRO	X	84	50.740	45.159	26.299	0.00	0.00
ATOM	1289	HD3	PRO	X	84	49.967	44.082	27.553	0.00	0.00
ATOM	1290	CG	PRO	X	84	48.925	45.941	27.273	0.00	0.00
ATOM	1291	HG2	PRO	X	84	49.542	46.732	27.700	0.00	0.00
ATOM	1292	HG3	PRO	X	84	48.321	45.665	28.138	0.00	0.00
ATOM	1293	CB	PRO	X	84	48.228	46.333	25.973	0.00	0.00
ATOM	1294	HB2	PRO	X	84	48.920	46.931	25.380	0.00	0.00
ATOM	1295	HB3	PRO	X	84	47.288	46.857	26.145	0.00	0.00
ATOM	1296	CA	PRO	X	84	47.962	44.999	25.283	0.00	0.00
ATOM	1297	HA	PRO	X	84	46.991	44.606	25.583	0.00	0.00
ATOM	1298	C	PRO	X	84	47.944	45.005	23.732	0.00	0.00
ATOM	1299	O	PRO	X	84	48.838	45.667	23.189	0.00	0.00
ATOM	1300	N	ASN	X	85	46.941	44.413	23.175	0.00	0.00
ATOM	1301	H	ASN	X	85	46.371	43.914	23.842	0.00	0.00
ATOM	1302	CA	ASN	X	85	46.567	44.311	21.818	0.00	0.00
ATOM	1303	HA	ASN	X	85	47.481	43.999	21.312	0.00	0.00
ATOM	1304	CB	ASN	X	85	45.704	43.075	21.607	0.00	0.00
ATOM	1305	HB2	ASN	X	85	45.636	42.803	20.553	0.00	0.00
ATOM	1306	HB3	ASN	X	85	46.221	42.257	22.109	0.00	0.00
ATOM	1307	CG	ASN	X	85	44.330	43.010	22.196	0.00	0.00
ATOM	1308	OD1	ASN	X	85	43.830	43.901	22.870	0.00	0.00
ATOM	1309	ND2	ASN	X	85	43.699	41.917	21.938	0.00	0.00
ATOM	1310	HD21	ASN	X	85	42.753	41.930	22.291	0.00	0.00
ATOM	1311	HD22	ASN	X	85	44.215	41.172	21.492	0.00	0.00
ATOM	1312	C	ASN	X	85	45.998	45.579	21.182	0.00	0.00
ATOM	1313	O	ASN	X	85	45.451	45.460	20.066	0.00	0.00
ATOM	1314	N	ARG	X	86	45.833	46.683	21.874	0.00	0.00
ATOM	1315	H	ARG	X	86	46.316	46.722	22.760	0.00	0.00
ATOM	1316	CA	ARG	X	86	45.279	47.995	21.392	0.00	0.00
ATOM	1317	HA	ARG	X	86	45.424	47.922	20.314	0.00	0.00
ATOM	1318	CB	ARG	X	86	43.787	48.093	21.923	0.00	0.00
ATOM	1319	HB2	ARG	X	86	43.890	47.811	22.971	0.00	0.00
ATOM	1320	HB3	ARG	X	86	43.414	49.108	21.783	0.00	0.00
ATOM	1321	CG	ARG	X	86	42.877	47.146	21.209	0.00	0.00
ATOM	1322	HG2	ARG	X	86	43.349	46.166	21.134	0.00	0.00
ATOM	1323	HG3	ARG	X	86	41.967	47.086	21.806	0.00	0.00
ATOM	1324	CD	ARG	X	86	42.628	47.620	19.791	0.00	0.00

ATOM	1325	HD2	ARG	X	86	41.843	48.375	19.742	0.00	0.00
ATOM	1326	HD3	ARG	X	86	43.471	48.219	19.445	0.00	0.00
ATOM	1327	NE	ARG	X	86	42.367	46.506	18.874	0.00	0.00
ATOM	1328	HE	ARG	X	86	42.930	45.674	18.980	0.00	0.00
ATOM	1329	CZ	ARG	X	86	41.485	46.513	17.903	0.00	0.00
ATOM	1330	NH1	ARG	X	86	40.656	47.499	17.607	0.00	0.00
ATOM	1331	HH11	ARG	X	86	40.519	48.255	18.263	0.00	0.00
ATOM	1332	HH12	ARG	X	86	39.981	47.360	16.870	0.00	0.00
ATOM	1333	NH2	ARG	X	86	41.527	45.511	17.049	0.00	0.00
ATOM	1334	HH21	ARG	X	86	42.070	44.707	17.327	0.00	0.00
ATOM	1335	HH22	ARG	X	86	40.744	45.307	16.444	0.00	0.00
ATOM	1336	C	ARG	X	86	46.193	49.142	21.810	0.00	0.00
ATOM	1337	O	ARG	X	86	47.086	48.964	22.621	0.00	0.00
ATOM	1338	N	GLU	X	87	45.861	50.376	21.517	0.00	0.00
ATOM	1339	H	GLU	X	87	45.019	50.411	20.960	0.00	0.00
ATOM	1340	CA	GLU	X	87	46.586	51.605	21.838	0.00	0.00
ATOM	1341	HA	GLU	X	87	47.642	51.458	21.612	0.00	0.00
ATOM	1342	CB	GLU	X	87	46.168	52.698	20.882	0.00	0.00
ATOM	1343	HB2	GLU	X	87	46.439	52.377	19.876	0.00	0.00
ATOM	1344	HB3	GLU	X	87	45.080	52.755	20.857	0.00	0.00
ATOM	1345	CG	GLU	X	87	46.915	54.052	21.219	0.00	0.00
ATOM	1346	HG2	GLU	X	87	46.375	54.480	22.063	0.00	0.00
ATOM	1347	HG3	GLU	X	87	47.992	53.888	21.186	0.00	0.00
ATOM	1348	CD	GLU	X	87	46.652	55.077	20.069	0.00	0.00
ATOM	1349	OE1	GLU	X	87	45.510	55.658	19.942	0.00	0.00
ATOM	1350	OE2	GLU	X	87	47.518	55.223	19.191	0.00	0.00
ATOM	1351	C	GLU	X	87	46.362	52.034	23.285	0.00	0.00
ATOM	1352	O	GLU	X	87	45.224	52.084	23.703	0.00	0.00
ATOM	1353	N	LEU	X	88	47.443	52.102	24.072	0.00	0.00
ATOM	1354	H	LEU	X	88	48.355	51.975	23.658	0.00	0.00
ATOM	1355	CA	LEU	X	88	47.454	52.692	25.378	0.00	0.00
ATOM	1356	HA	LEU	X	88	46.703	52.211	26.005	0.00	0.00
ATOM	1357	CB	LEU	X	88	48.795	52.431	26.055	0.00	0.00
ATOM	1358	HB2	LEU	X	88	49.409	53.267	25.719	0.00	0.00
ATOM	1359	HB3	LEU	X	88	48.599	52.560	27.120	0.00	0.00
ATOM	1360	CG	LEU	X	88	49.599	51.186	25.773	0.00	0.00
ATOM	1361	HG	LEU	X	88	50.123	51.237	24.818	0.00	0.00
ATOM	1362	CD1	LEU	X	88	50.733	51.103	26.794	0.00	0.00
ATOM	1363	HD11	LEU	X	88	51.452	51.911	26.658	0.00	0.00
ATOM	1364	HD12	LEU	X	88	51.370	50.239	26.604	0.00	0.00
ATOM	1365	HD13	LEU	X	88	50.366	51.242	27.811	0.00	0.00
ATOM	1366	CD2	LEU	X	88	48.729	49.970	25.926	0.00	0.00
ATOM	1367	HD21	LEU	X	88	47.919	50.094	26.645	0.00	0.00
ATOM	1368	HD22	LEU	X	88	48.295	49.844	24.934	0.00	0.00
ATOM	1369	HD23	LEU	X	88	49.320	49.130	26.291	0.00	0.00
ATOM	1370	C	LEU	X	88	47.054	54.184	25.385	0.00	0.00
ATOM	1371	O	LEU	X	88	47.504	54.830	24.458	0.00	0.00
ATOM	1372	N	SER	X	89	46.305	54.685	26.353	0.00	0.00
ATOM	1373	H	SER	X	89	45.837	54.033	26.966	0.00	0.00
ATOM	1374	CA	SER	X	89	45.694	56.018	26.322	0.00	0.00
ATOM	1375	HA	SER	X	89	46.371	56.820	26.026	0.00	0.00
ATOM	1376	CB	SER	X	89	44.585	55.864	25.310	0.00	0.00
ATOM	1377	HB2	SER	X	89	45.011	55.310	24.474	0.00	0.00
ATOM	1378	HB3	SER	X	89	43.748	55.382	25.814	0.00	0.00
ATOM	1379	OG	SER	X	89	44.182	57.226	25.071	0.00	0.00
ATOM	1380	HG	SER	X	89	43.266	57.222	24.783	0.00	0.00
ATOM	1381	C	SER	X	89	45.063	56.425	27.671	0.00	0.00
ATOM	1382	O	SER	X	89	44.832	55.525	28.482	0.00	0.00
ATOM	1383	N	GLU	X	90	44.809	57.717	27.880	0.00	0.00
ATOM	1384	H	GLU	X	90	45.152	58.330	27.154	0.00	0.00
ATOM	1385	CA	GLU	X	90	44.048	58.256	29.051	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.284	57.645	29.922	0.00	0.00
ATOM	1387	CB	GLU	X	90	44.434	59.710	29.346	0.00	0.00
ATOM	1388	HB2	GLU	X	90	44.492	60.267	28.410	0.00	0.00
ATOM	1389	HB3	GLU	X	90	43.788	60.160	30.100	0.00	0.00
ATOM	1390	CG	GLU	X	90	45.790	59.881	29.977	0.00	0.00
ATOM	1391	HG2	GLU	X	90	45.724	59.394	30.950	0.00	0.00

ATOM	1392	HG3	GLU	X	90	46.534	59.475	29.292	0.00	0.00
ATOM	1393	CD	GLU	X	90	46.104	61.354	30.204	0.00	0.00
ATOM	1394	OE1	GLU	X	90	45.727	61.901	31.242	0.00	0.00
ATOM	1395	OE2	GLU	X	90	46.688	61.882	29.262	0.00	0.00
ATOM	1396	C	GLU	X	90	42.553	58.206	28.929	0.00	0.00
ATOM	1397	O	GLU	X	90	41.847	58.001	29.908	0.00	0.00
ATOM	1398	N	ASP	X	91	42.084	58.307	27.651	0.00	0.00
ATOM	1399	H	ASP	X	91	42.776	58.390	26.919	0.00	0.00
ATOM	1400	CA	ASP	X	91	40.705	58.266	27.297	0.00	0.00
ATOM	1401	HA	ASP	X	91	40.348	59.130	27.857	0.00	0.00
ATOM	1402	CB	ASP	X	91	40.509	58.864	25.846	0.00	0.00
ATOM	1403	HB2	ASP	X	91	39.468	59.178	25.768	0.00	0.00
ATOM	1404	HB3	ASP	X	91	41.119	59.760	25.731	0.00	0.00
ATOM	1405	CG	ASP	X	91	40.746	57.937	24.689	0.00	0.00
ATOM	1406	OD1	ASP	X	91	41.648	57.076	24.711	0.00	0.00
ATOM	1407	OD2	ASP	X	91	40.122	58.165	23.603	0.00	0.00
ATOM	1408	C	ASP	X	91	39.906	56.987	27.587	0.00	0.00
ATOM	1409	O	ASP	X	91	38.781	56.905	27.137	0.00	0.00
ATOM	1410	N	CYX	X	92	40.489	55.985	28.274	0.00	0.00
ATOM	1411	H	CYX	X	92	41.276	56.259	28.847	0.00	0.00
ATOM	1412	CA	CYX	X	92	40.307	54.571	28.178	0.00	0.00
ATOM	1413	HA	CYX	X	92	40.110	54.338	27.132	0.00	0.00
ATOM	1414	CB	CYX	X	92	41.602	53.888	28.672	0.00	0.00
ATOM	1415	HB2	CYX	X	92	41.579	52.829	28.416	0.00	0.00
ATOM	1416	HB3	CYX	X	92	42.453	54.328	28.152	0.00	0.00
ATOM	1417	SG	CYX	X	92	41.761	54.034	30.413	0.00	0.00
ATOM	1418	C	CYX	X	92	39.032	53.977	28.863	0.00	0.00
ATOM	1419	O	CYX	X	92	38.977	52.775	29.090	0.00	0.00
ATOM	1420	N	LEU	X	93	38.076	54.808	29.198	0.00	0.00
ATOM	1421	H	LEU	X	93	38.099	55.775	28.906	0.00	0.00
ATOM	1422	CA	LEU	X	93	36.857	54.364	29.847	0.00	0.00
ATOM	1423	HA	LEU	X	93	37.055	53.581	30.579	0.00	0.00
ATOM	1424	CB	LEU	X	93	36.198	55.487	30.616	0.00	0.00
ATOM	1425	HB2	LEU	X	93	35.749	56.151	29.877	0.00	0.00
ATOM	1426	HB3	LEU	X	93	35.353	55.108	31.190	0.00	0.00
ATOM	1427	CG	LEU	X	93	37.061	56.302	31.546	0.00	0.00
ATOM	1428	HG	LEU	X	93	37.760	56.869	30.930	0.00	0.00
ATOM	1429	CD1	LEU	X	93	36.230	57.396	32.260	0.00	0.00
ATOM	1430	HD11	LEU	X	93	36.998	57.913	32.836	0.00	0.00
ATOM	1431	HD12	LEU	X	93	35.446	56.948	32.871	0.00	0.00
ATOM	1432	HD13	LEU	X	93	35.768	58.108	31.576	0.00	0.00
ATOM	1433	CD2	LEU	X	93	37.860	55.483	32.554	0.00	0.00
ATOM	1434	HD21	LEU	X	93	37.143	54.880	33.112	0.00	0.00
ATOM	1435	HD22	LEU	X	93	38.575	54.849	32.029	0.00	0.00
ATOM	1436	HD23	LEU	X	93	38.434	56.143	33.205	0.00	0.00
ATOM	1437	C	LEU	X	93	35.855	53.813	28.790	0.00	0.00
ATOM	1438	O	LEU	X	93	35.438	54.554	27.881	0.00	0.00
ATOM	1439	N	TYR	X	94	35.490	52.542	28.842	0.00	0.00
ATOM	1440	H	TYR	X	94	35.768	51.874	29.547	0.00	0.00
ATOM	1441	CA	TYR	X	94	34.557	51.986	27.856	0.00	0.00
ATOM	1442	HA	TYR	X	94	33.981	52.789	27.395	0.00	0.00
ATOM	1443	CB	TYR	X	94	35.252	51.484	26.597	0.00	0.00
ATOM	1444	HB2	TYR	X	94	35.822	50.571	26.767	0.00	0.00
ATOM	1445	HB3	TYR	X	94	34.465	51.163	25.915	0.00	0.00
ATOM	1446	CG	TYR	X	94	36.099	52.428	25.762	0.00	0.00
ATOM	1447	CD1	TYR	X	94	35.544	53.426	24.897	0.00	0.00
ATOM	1448	HD1	TYR	X	94	34.476	53.555	24.798	0.00	0.00
ATOM	1449	CE1	TYR	X	94	36.379	54.298	24.213	0.00	0.00
ATOM	1450	HE1	TYR	X	94	35.943	55.077	23.603	0.00	0.00
ATOM	1451	CZ	TYR	X	94	37.788	54.198	24.291	0.00	0.00
ATOM	1452	OH	TYR	X	94	38.616	54.876	23.429	0.00	0.00
ATOM	1453	HH	TYR	X	94	39.552	54.709	23.558	0.00	0.00
ATOM	1454	CE2	TYR	X	94	38.328	53.231	25.129	0.00	0.00
ATOM	1455	HE2	TYR	X	94	39.392	53.048	25.162	0.00	0.00
ATOM	1456	CD2	TYR	X	94	37.486	52.446	25.889	0.00	0.00
ATOM	1457	HD2	TYR	X	94	37.916	51.688	26.526	0.00	0.00
ATOM	1458	C	TYR	X	94	33.720	50.820	28.447	0.00	0.00

ATOM	1459	O	TYR	X	94	34.161	50.027	29.295	0.00	0.00
ATOM	1460	N	LEU	X	95	32.572	50.575	27.828	0.00	0.00
ATOM	1461	H	LEU	X	95	32.232	51.327	27.246	0.00	0.00
ATOM	1462	CA	LEU	X	95	31.823	49.314	27.904	0.00	0.00
ATOM	1463	HA	LEU	X	95	32.289	48.675	28.655	0.00	0.00
ATOM	1464	CB	LEU	X	95	30.429	49.566	28.314	0.00	0.00
ATOM	1465	HB2	LEU	X	95	30.315	50.561	28.742	0.00	0.00
ATOM	1466	HB3	LEU	X	95	29.862	49.482	27.386	0.00	0.00
ATOM	1467	CG	LEU	X	95	29.851	48.552	29.333	0.00	0.00
ATOM	1468	HG	LEU	X	95	30.211	47.531	29.203	0.00	0.00
ATOM	1469	CD1	LEU	X	95	30.242	48.994	30.742	0.00	0.00
ATOM	1470	HD11	LEU	X	95	29.539	49.682	31.211	0.00	0.00
ATOM	1471	HD12	LEU	X	95	31.254	49.398	30.761	0.00	0.00
ATOM	1472	HD13	LEU	X	95	30.231	48.054	31.294	0.00	0.00
ATOM	1473	CD2	LEU	X	95	28.305	48.593	29.171	0.00	0.00
ATOM	1474	HD21	LEU	X	95	27.983	49.629	29.280	0.00	0.00
ATOM	1475	HD22	LEU	X	95	27.971	48.287	28.180	0.00	0.00
ATOM	1476	HD23	LEU	X	95	27.666	48.163	29.942	0.00	0.00
ATOM	1477	C	LEU	X	95	31.951	48.543	26.530	0.00	0.00
ATOM	1478	O	LEU	X	95	32.022	49.159	25.500	0.00	0.00
ATOM	1479	N	ASN	X	96	31.872	47.219	26.603	0.00	0.00
ATOM	1480	H	ASN	X	96	31.831	46.903	27.562	0.00	0.00
ATOM	1481	CA	ASN	X	96	31.767	46.209	25.622	0.00	0.00
ATOM	1482	HA	ASN	X	96	31.586	46.768	24.704	0.00	0.00
ATOM	1483	CB	ASN	X	96	33.132	45.434	25.588	0.00	0.00
ATOM	1484	HB2	ASN	X	96	33.207	44.911	26.541	0.00	0.00
ATOM	1485	HB3	ASN	X	96	33.149	44.895	24.640	0.00	0.00
ATOM	1486	CG	ASN	X	96	34.280	46.457	25.422	0.00	0.00
ATOM	1487	OD1	ASN	X	96	34.466	46.986	24.309	0.00	0.00
ATOM	1488	ND2	ASN	X	96	35.046	46.732	26.529	0.00	0.00
ATOM	1489	HD21	ASN	X	96	35.729	47.467	26.413	0.00	0.00
ATOM	1490	HD22	ASN	X	96	34.782	46.380	27.438	0.00	0.00
ATOM	1491	C	ASN	X	96	30.576	45.269	26.024	0.00	0.00
ATOM	1492	O	ASN	X	96	30.352	44.856	27.112	0.00	0.00
ATOM	1493	N	VAL	X	97	29.764	44.767	25.059	0.00	0.00
ATOM	1494	H	VAL	X	97	29.873	45.022	24.088	0.00	0.00
ATOM	1495	CA	VAL	X	97	28.704	43.735	25.299	0.00	0.00
ATOM	1496	HA	VAL	X	97	28.838	43.303	26.291	0.00	0.00
ATOM	1497	CB	VAL	X	97	27.237	44.378	25.354	0.00	0.00
ATOM	1498	HB	VAL	X	97	26.881	44.623	24.353	0.00	0.00
ATOM	1499	CG1	VAL	X	97	26.193	43.433	25.983	0.00	0.00
ATOM	1500	HG11	VAL	X	97	26.040	42.492	25.454	0.00	0.00
ATOM	1501	HG12	VAL	X	97	26.433	43.250	27.031	0.00	0.00
ATOM	1502	HG13	VAL	X	97	25.218	43.920	25.973	0.00	0.00
ATOM	1503	CG2	VAL	X	97	27.237	45.536	26.291	0.00	0.00
ATOM	1504	HG21	VAL	X	97	27.841	46.386	25.970	0.00	0.00
ATOM	1505	HG22	VAL	X	97	27.691	45.244	27.238	0.00	0.00
ATOM	1506	HG23	VAL	X	97	26.219	45.880	26.475	0.00	0.00
ATOM	1507	C	VAL	X	97	28.647	42.672	24.240	0.00	0.00
ATOM	1508	O	VAL	X	97	28.827	42.961	23.076	0.00	0.00
ATOM	1509	N	TRP	X	98	28.523	41.369	24.568	0.00	0.00
ATOM	1510	H	TRP	X	98	28.515	41.147	25.553	0.00	0.00
ATOM	1511	CA	TRP	X	98	28.150	40.220	23.715	0.00	0.00
ATOM	1512	HA	TRP	X	98	28.167	40.475	22.656	0.00	0.00
ATOM	1513	CB	TRP	X	98	29.070	39.079	23.951	0.00	0.00
ATOM	1514	HB2	TRP	X	98	28.912	38.693	24.958	0.00	0.00
ATOM	1515	HB3	TRP	X	98	28.797	38.270	23.274	0.00	0.00
ATOM	1516	CG	TRP	X	98	30.479	39.318	23.712	0.00	0.00
ATOM	1517	CD1	TRP	X	98	31.204	38.655	22.764	0.00	0.00
ATOM	1518	HD1	TRP	X	98	30.849	37.792	22.221	0.00	0.00
ATOM	1519	NE1	TRP	X	98	32.472	39.092	22.768	0.00	0.00
ATOM	1520	HE1	TRP	X	98	33.234	38.630	22.292	0.00	0.00
ATOM	1521	CE2	TRP	X	98	32.662	40.243	23.577	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	33.782	40.891	24.078	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	34.755	40.636	23.685	0.00	0.00
ATOM	1524	CH2	TRP	X	98	33.746	41.619	25.284	0.00	0.00
ATOM	1525	HH2	TRP	X	98	34.667	41.961	25.733	0.00	0.00

ATOM	1526	CZ3	TRP	X	98	32.498	41.784	25.955	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	32.430	42.400	26.840	0.00	0.00
ATOM	1528	CE3	TRP	X	98	31.409	41.133	25.418	0.00	0.00
ATOM	1529	HE3	TRP	X	98	30.504	41.139	26.006	0.00	0.00
ATOM	1530	CD2	TRP	X	98	31.455	40.300	24.251	0.00	0.00
ATOM	1531	C	TRP	X	98	26.706	39.756	23.945	0.00	0.00
ATOM	1532	O	TRP	X	98	26.357	39.481	25.038	0.00	0.00
ATOM	1533	N	THR	X	99	25.893	39.554	22.878	0.00	0.00
ATOM	1534	H	THR	X	99	26.252	39.608	21.936	0.00	0.00
ATOM	1535	CA	THR	X	99	24.500	39.121	23.027	0.00	0.00
ATOM	1536	HA	THR	X	99	24.399	38.576	23.965	0.00	0.00
ATOM	1537	CB	THR	X	99	23.578	40.341	22.992	0.00	0.00
ATOM	1538	HB	THR	X	99	23.971	41.009	23.758	0.00	0.00
ATOM	1539	CG2	THR	X	99	23.429	41.213	21.796	0.00	0.00
ATOM	1540	HG21	THR	X	99	23.022	40.638	20.965	0.00	0.00
ATOM	1541	HG22	THR	X	99	24.393	41.607	21.474	0.00	0.00
ATOM	1542	HG23	THR	X	99	22.756	42.012	22.105	0.00	0.00
ATOM	1543	OG1	THR	X	99	22.300	39.840	23.292	0.00	0.00
ATOM	1544	HG1	THR	X	99	21.678	40.529	23.537	0.00	0.00
ATOM	1545	C	THR	X	99	24.261	38.123	21.921	0.00	0.00
ATOM	1546	O	THR	X	99	24.907	38.250	20.863	0.00	0.00
ATOM	1547	N	PRO	X	100	23.313	37.132	22.019	0.00	0.00
ATOM	1548	CD	PRO	X	100	22.394	36.764	23.053	0.00	0.00
ATOM	1549	HD2	PRO	X	100	21.579	37.475	23.190	0.00	0.00
ATOM	1550	HD3	PRO	X	100	22.840	36.512	24.015	0.00	0.00
ATOM	1551	CG	PRO	X	100	21.573	35.576	22.578	0.00	0.00
ATOM	1552	HG2	PRO	X	100	20.675	35.961	22.095	0.00	0.00
ATOM	1553	HG3	PRO	X	100	21.396	34.901	23.415	0.00	0.00
ATOM	1554	CB	PRO	X	100	22.450	35.037	21.484	0.00	0.00
ATOM	1555	HB2	PRO	X	100	21.776	34.641	20.724	0.00	0.00
ATOM	1556	HB3	PRO	X	100	23.138	34.269	21.838	0.00	0.00
ATOM	1557	CA	PRO	X	100	23.163	36.231	20.902	0.00	0.00
ATOM	1558	HA	PRO	X	100	24.169	36.030	20.532	0.00	0.00
ATOM	1559	C	PRO	X	100	22.435	36.891	19.716	0.00	0.00
ATOM	1560	O	PRO	X	100	21.533	37.720	19.936	0.00	0.00
ATOM	1561	N	TYR	X	101	22.742	36.476	18.489	0.00	0.00
ATOM	1562	H	TYR	X	101	23.443	35.777	18.290	0.00	0.00
ATOM	1563	CA	TYR	X	101	22.149	37.077	17.283	0.00	0.00
ATOM	1564	HA	TYR	X	101	21.742	38.060	17.523	0.00	0.00
ATOM	1565	CB	TYR	X	101	23.253	37.273	16.261	0.00	0.00
ATOM	1566	HB2	TYR	X	101	23.962	37.981	16.691	0.00	0.00
ATOM	1567	HB3	TYR	X	101	23.808	36.340	16.168	0.00	0.00
ATOM	1568	CG	TYR	X	101	22.888	37.704	14.861	0.00	0.00
ATOM	1569	CD1	TYR	X	101	22.306	36.836	13.888	0.00	0.00
ATOM	1570	HD1	TYR	X	101	21.886	35.863	14.096	0.00	0.00
ATOM	1571	CE1	TYR	X	101	22.147	37.429	12.575	0.00	0.00
ATOM	1572	HE1	TYR	X	101	21.603	36.850	11.843	0.00	0.00
ATOM	1573	CZ	TYR	X	101	22.739	38.638	12.145	0.00	0.00
ATOM	1574	OH	TYR	X	101	22.506	39.182	10.934	0.00	0.00
ATOM	1575	HH	TYR	X	101	22.038	38.651	10.285	0.00	0.00
ATOM	1576	CE2	TYR	X	101	23.419	39.410	13.144	0.00	0.00
ATOM	1577	HE2	TYR	X	101	23.586	40.453	12.921	0.00	0.00
ATOM	1578	CD2	TYR	X	101	23.490	38.956	14.476	0.00	0.00
ATOM	1579	HD2	TYR	X	101	24.070	39.614	15.106	0.00	0.00
ATOM	1580	C	TYR	X	101	21.043	36.143	16.775	0.00	0.00
ATOM	1581	O	TYR	X	101	21.361	34.958	16.564	0.00	0.00
ATOM	1582	N	PRO	X	102	19.797	36.632	16.454	0.00	0.00
ATOM	1583	CD	PRO	X	102	18.895	35.802	15.667	0.00	0.00
ATOM	1584	HD2	PRO	X	102	18.837	34.780	16.041	0.00	0.00
ATOM	1585	HD3	PRO	X	102	19.253	35.713	14.641	0.00	0.00
ATOM	1586	CG	PRO	X	102	17.535	36.509	15.748	0.00	0.00
ATOM	1587	HG2	PRO	X	102	17.131	36.277	16.733	0.00	0.00
ATOM	1588	HG3	PRO	X	102	16.854	36.272	14.930	0.00	0.00
ATOM	1589	CB	PRO	X	102	17.985	38.003	15.636	0.00	0.00
ATOM	1590	HB2	PRO	X	102	17.221	38.670	16.037	0.00	0.00
ATOM	1591	HB3	PRO	X	102	18.284	38.339	14.643	0.00	0.00
ATOM	1592	CA	PRO	X	102	19.248	37.953	16.570	0.00	0.00

ATOM	1593	HA	PRO	X	102	19.923	38.731	16.212	0.00	0.00
ATOM	1594	C	PRO	X	102	18.911	38.309	17.993	0.00	0.00
ATOM	1595	O	PRO	X	102	18.543	37.449	18.789	0.00	0.00
ATOM	1596	N	ARG	X	103	18.995	39.560	18.389	0.00	0.00
ATOM	1597	H	ARG	X	103	19.078	40.282	17.687	0.00	0.00
ATOM	1598	CA	ARG	X	103	19.006	39.998	19.813	0.00	0.00
ATOM	1599	HA	ARG	X	103	19.791	39.371	20.236	0.00	0.00
ATOM	1600	CB	ARG	X	103	19.242	41.505	19.995	0.00	0.00
ATOM	1601	HB2	ARG	X	103	18.355	42.059	19.688	0.00	0.00
ATOM	1602	HB3	ARG	X	103	19.477	41.609	21.055	0.00	0.00
ATOM	1603	CG	ARG	X	103	20.498	41.968	19.251	0.00	0.00
ATOM	1604	HG2	ARG	X	103	21.290	41.234	19.099	0.00	0.00
ATOM	1605	HG3	ARG	X	103	20.129	42.369	18.307	0.00	0.00
ATOM	1606	CD	ARG	X	103	20.977	43.304	19.950	0.00	0.00
ATOM	1607	HD2	ARG	X	103	21.380	43.026	20.924	0.00	0.00
ATOM	1608	HD3	ARG	X	103	21.804	43.752	19.400	0.00	0.00
ATOM	1609	NE	ARG	X	103	19.899	44.321	20.157	0.00	0.00
ATOM	1610	HE	ARG	X	103	19.345	44.359	21.000	0.00	0.00
ATOM	1611	CZ	ARG	X	103	19.590	45.323	19.355	0.00	0.00
ATOM	1612	NH1	ARG	X	103	19.939	45.251	18.077	0.00	0.00
ATOM	1613	HH11	ARG	X	103	20.492	44.464	17.769	0.00	0.00
ATOM	1614	HH12	ARG	X	103	19.797	46.026	17.446	0.00	0.00
ATOM	1615	NH2	ARG	X	103	18.862	46.303	19.786	0.00	0.00
ATOM	1616	HH21	ARG	X	103	18.583	46.302	20.757	0.00	0.00
ATOM	1617	HH22	ARG	X	103	18.539	46.967	19.097	0.00	0.00
ATOM	1618	C	ARG	X	103	17.784	39.549	20.484	0.00	0.00
ATOM	1619	O	ARG	X	103	16.696	39.819	19.914	0.00	0.00
ATOM	1620	N	PRO	X	104	17.795	38.770	21.645	0.00	0.00
ATOM	1621	CD	PRO	X	104	19.029	38.465	22.392	0.00	0.00
ATOM	1622	HD2	PRO	X	104	19.648	39.340	22.590	0.00	0.00
ATOM	1623	HD3	PRO	X	104	19.567	37.743	21.778	0.00	0.00
ATOM	1624	CG	PRO	X	104	18.526	37.785	23.693	0.00	0.00
ATOM	1625	HG2	PRO	X	104	18.305	38.561	24.426	0.00	0.00
ATOM	1626	HG3	PRO	X	104	19.227	37.078	24.136	0.00	0.00
ATOM	1627	CB	PRO	X	104	17.150	37.149	23.269	0.00	0.00
ATOM	1628	HB2	PRO	X	104	16.479	36.935	24.101	0.00	0.00
ATOM	1629	HB3	PRO	X	104	17.288	36.147	22.863	0.00	0.00
ATOM	1630	CA	PRO	X	104	16.631	38.237	22.281	0.00	0.00
ATOM	1631	HA	PRO	X	104	15.997	37.704	21.573	0.00	0.00
ATOM	1632	C	PRO	X	104	15.781	39.255	23.023	0.00	0.00
ATOM	1633	O	PRO	X	104	16.177	40.422	23.201	0.00	0.00
ATOM	1634	N	THR	X	105	14.569	38.810	23.464	0.00	0.00
ATOM	1635	H	THR	X	105	14.273	37.882	23.195	0.00	0.00
ATOM	1636	CA	THR	X	105	13.511	39.659	23.968	0.00	0.00
ATOM	1637	HA	THR	X	105	13.886	40.659	24.187	0.00	0.00
ATOM	1638	CB	THR	X	105	12.360	39.856	22.965	0.00	0.00
ATOM	1639	HB	THR	X	105	11.591	40.470	23.434	0.00	0.00
ATOM	1640	CG2	THR	X	105	12.792	40.565	21.733	0.00	0.00
ATOM	1641	HG21	THR	X	105	12.983	41.594	22.036	0.00	0.00
ATOM	1642	HG22	THR	X	105	11.943	40.494	21.053	0.00	0.00
ATOM	1643	HG23	THR	X	105	13.656	40.145	21.217	0.00	0.00
ATOM	1644	OG1	THR	X	105	11.814	38.599	22.561	0.00	0.00
ATOM	1645	HG1	THR	X	105	12.293	38.162	21.854	0.00	0.00
ATOM	1646	C	THR	X	105	12.956	39.132	25.286	0.00	0.00
ATOM	1647	O	THR	X	105	12.533	39.917	26.138	0.00	0.00
ATOM	1648	N	SER	X	106	12.945	37.813	25.554	0.00	0.00
ATOM	1649	H	SER	X	106	13.478	37.248	24.909	0.00	0.00
ATOM	1650	CA	SER	X	106	12.502	37.253	26.860	0.00	0.00
ATOM	1651	HA	SER	X	106	11.612	37.748	27.251	0.00	0.00
ATOM	1652	CB	SER	X	106	12.197	35.735	26.768	0.00	0.00
ATOM	1653	HB2	SER	X	106	13.125	35.306	26.389	0.00	0.00
ATOM	1654	HB3	SER	X	106	12.004	35.433	27.798	0.00	0.00
ATOM	1655	OG	SER	X	106	11.091	35.400	25.980	0.00	0.00
ATOM	1656	HG	SER	X	106	10.286	35.777	26.343	0.00	0.00
ATOM	1657	C	SER	X	106	13.588	37.498	27.869	0.00	0.00
ATOM	1658	O	SER	X	106	14.782	37.468	27.509	0.00	0.00
ATOM	1659	N	PRO	X	107	13.389	37.595	29.185	0.00	0.00

ATOM	1660	CD	PRO	X	107	12.058	37.550	29.878	0.00	0.00
ATOM	1661	HD2	PRO	X	107	11.634	36.548	29.943	0.00	0.00
ATOM	1662	HD3	PRO	X	107	11.368	38.130	29.266	0.00	0.00
ATOM	1663	CG	PRO	X	107	12.262	38.146	31.197	0.00	0.00
ATOM	1664	HG2	PRO	X	107	11.474	37.975	31.930	0.00	0.00
ATOM	1665	HG3	PRO	X	107	12.304	39.228	31.071	0.00	0.00
ATOM	1666	CB	PRO	X	107	13.608	37.612	31.568	0.00	0.00
ATOM	1667	HB2	PRO	X	107	13.425	36.551	31.739	0.00	0.00
ATOM	1668	HB3	PRO	X	107	14.162	38.080	32.383	0.00	0.00
ATOM	1669	CA	PRO	X	107	14.375	37.703	30.261	0.00	0.00
ATOM	1670	HA	PRO	X	107	14.814	38.683	30.076	0.00	0.00
ATOM	1671	C	PRO	X	107	15.516	36.711	30.302	0.00	0.00
ATOM	1672	O	PRO	X	107	15.378	35.562	29.834	0.00	0.00
ATOM	1673	N	THR	X	108	16.719	37.090	30.756	0.00	0.00
ATOM	1674	H	THR	X	108	16.687	38.058	31.043	0.00	0.00
ATOM	1675	CA	THR	X	108	18.003	36.357	30.648	0.00	0.00
ATOM	1676	HA	THR	X	108	17.826	35.391	31.122	0.00	0.00
ATOM	1677	CB	THR	X	108	18.335	36.080	29.169	0.00	0.00
ATOM	1678	HB	THR	X	108	17.648	35.351	28.740	0.00	0.00
ATOM	1679	CG2	THR	X	108	18.349	37.364	28.298	0.00	0.00
ATOM	1680	HG21	THR	X	108	17.476	38.001	28.439	0.00	0.00
ATOM	1681	HG22	THR	X	108	18.403	37.017	27.266	0.00	0.00
ATOM	1682	HG23	THR	X	108	19.232	37.924	28.607	0.00	0.00
ATOM	1683	OG1	THR	X	108	19.509	35.337	29.004	0.00	0.00
ATOM	1684	HG1	THR	X	108	19.847	35.286	28.107	0.00	0.00
ATOM	1685	C	THR	X	108	19.111	37.103	31.400	0.00	0.00
ATOM	1686	O	THR	X	108	18.947	38.310	31.567	0.00	0.00
ATOM	1687	N	PRO	X	109	20.050	36.362	32.095	0.00	0.00
ATOM	1688	CD	PRO	X	109	20.305	34.917	31.994	0.00	0.00
ATOM	1689	HD2	PRO	X	109	20.993	34.834	31.153	0.00	0.00
ATOM	1690	HD3	PRO	X	109	19.350	34.414	31.839	0.00	0.00
ATOM	1691	CG	PRO	X	109	21.055	34.504	33.308	0.00	0.00
ATOM	1692	HG2	PRO	X	109	21.632	33.588	33.181	0.00	0.00
ATOM	1693	HG3	PRO	X	109	20.371	34.559	34.154	0.00	0.00
ATOM	1694	CB	PRO	X	109	21.954	35.709	33.500	0.00	0.00
ATOM	1695	HB2	PRO	X	109	22.878	35.563	32.941	0.00	0.00
ATOM	1696	HB3	PRO	X	109	22.249	35.899	34.532	0.00	0.00
ATOM	1697	CA	PRO	X	109	21.053	36.869	33.055	0.00	0.00
ATOM	1698	HA	PRO	X	109	20.552	37.378	33.878	0.00	0.00
ATOM	1699	C	PRO	X	109	22.004	37.886	32.390	0.00	0.00
ATOM	1700	O	PRO	X	109	22.193	37.890	31.170	0.00	0.00
ATOM	1701	N	VAL	X	110	22.518	38.740	33.235	0.00	0.00
ATOM	1702	H	VAL	X	110	22.116	38.731	34.162	0.00	0.00
ATOM	1703	CA	VAL	X	110	23.683	39.675	32.876	0.00	0.00
ATOM	1704	HA	VAL	X	110	23.881	39.452	31.827	0.00	0.00
ATOM	1705	CB	VAL	X	110	23.284	41.202	32.911	0.00	0.00
ATOM	1706	HB	VAL	X	110	22.954	41.444	33.921	0.00	0.00
ATOM	1707	CG1	VAL	X	110	24.526	42.082	32.572	0.00	0.00
ATOM	1708	HG11	VAL	X	110	24.691	41.891	31.512	0.00	0.00
ATOM	1709	HG12	VAL	X	110	24.226	43.128	32.649	0.00	0.00
ATOM	1710	HG13	VAL	X	110	25.451	41.852	33.101	0.00	0.00
ATOM	1711	CG2	VAL	X	110	22.169	41.522	32.009	0.00	0.00
ATOM	1712	HG21	VAL	X	110	22.522	41.419	30.982	0.00	0.00
ATOM	1713	HG22	VAL	X	110	21.743	42.511	32.174	0.00	0.00
ATOM	1714	HG23	VAL	X	110	21.311	40.872	32.179	0.00	0.00
ATOM	1715	C	VAL	X	110	24.940	39.313	33.660	0.00	0.00
ATOM	1716	O	VAL	X	110	24.952	39.384	34.852	0.00	0.00
ATOM	1717	N	LEU	X	111	25.981	38.980	32.953	0.00	0.00
ATOM	1718	H	LEU	X	111	25.950	38.884	31.948	0.00	0.00
ATOM	1719	CA	LEU	X	111	27.282	38.863	33.545	0.00	0.00
ATOM	1720	HA	LEU	X	111	27.262	38.767	34.630	0.00	0.00
ATOM	1721	CB	LEU	X	111	28.060	37.649	32.989	0.00	0.00
ATOM	1722	HB2	LEU	X	111	28.092	37.713	31.901	0.00	0.00
ATOM	1723	HB3	LEU	X	111	29.128	37.690	33.205	0.00	0.00
ATOM	1724	CG	LEU	X	111	27.394	36.282	33.470	0.00	0.00
ATOM	1725	HG	LEU	X	111	26.829	36.476	34.382	0.00	0.00
ATOM	1726	CD1	LEU	X	111	26.474	35.702	32.388	0.00	0.00

ATOM	1727	HD11	LEU	X	111	27.107	35.322	31.587	0.00	0.00
ATOM	1728	HD12	LEU	X	111	25.813	36.369	31.834	0.00	0.00
ATOM	1729	HD13	LEU	X	111	25.868	34.853	32.705	0.00	0.00
ATOM	1730	CD2	LEU	X	111	28.501	35.290	33.859	0.00	0.00
ATOM	1731	HD21	LEU	X	111	29.204	35.183	33.033	0.00	0.00
ATOM	1732	HD22	LEU	X	111	29.083	35.635	34.713	0.00	0.00
ATOM	1733	HD23	LEU	X	111	28.023	34.347	34.128	0.00	0.00
ATOM	1734	C	LEU	X	111	28.120	40.111	33.179	0.00	0.00
ATOM	1735	O	LEU	X	111	28.206	40.415	32.018	0.00	0.00
ATOM	1736	N	VAL	X	112	28.732	40.690	34.207	0.00	0.00
ATOM	1737	H	VAL	X	112	28.471	40.419	35.144	0.00	0.00
ATOM	1738	CA	VAL	X	112	29.562	41.906	34.173	0.00	0.00
ATOM	1739	HA	VAL	X	112	29.540	42.248	33.138	0.00	0.00
ATOM	1740	CB	VAL	X	112	28.994	43.119	35.030	0.00	0.00
ATOM	1741	HB	VAL	X	112	28.468	42.745	35.908	0.00	0.00
ATOM	1742	CG1	VAL	X	112	30.053	44.173	35.448	0.00	0.00
ATOM	1743	HG11	VAL	X	112	29.459	44.980	35.877	0.00	0.00
ATOM	1744	HG12	VAL	X	112	30.747	43.719	36.155	0.00	0.00
ATOM	1745	HG13	VAL	X	112	30.517	44.640	34.580	0.00	0.00
ATOM	1746	CG2	VAL	X	112	27.974	43.848	34.173	0.00	0.00
ATOM	1747	HG21	VAL	X	112	27.507	44.660	34.730	0.00	0.00
ATOM	1748	HG22	VAL	X	112	27.280	43.116	33.761	0.00	0.00
ATOM	1749	HG23	VAL	X	112	28.569	44.377	33.428	0.00	0.00
ATOM	1750	C	VAL	X	112	30.912	41.507	34.667	0.00	0.00
ATOM	1751	O	VAL	X	112	31.043	41.256	35.817	0.00	0.00
ATOM	1752	N	TRP	X	113	31.856	41.413	33.718	0.00	0.00
ATOM	1753	H	TRP	X	113	31.635	41.663	32.764	0.00	0.00
ATOM	1754	CA	TRP	X	113	33.210	40.951	33.879	0.00	0.00
ATOM	1755	HA	TRP	X	113	33.273	40.186	34.653	0.00	0.00
ATOM	1756	CB	TRP	X	113	33.763	40.411	32.554	0.00	0.00
ATOM	1757	HB2	TRP	X	113	33.088	39.584	32.333	0.00	0.00
ATOM	1758	HB3	TRP	X	113	33.646	41.179	31.790	0.00	0.00
ATOM	1759	CG	TRP	X	113	35.216	39.905	32.599	0.00	0.00
ATOM	1760	CD1	TRP	X	113	36.334	40.581	32.118	0.00	0.00
ATOM	1761	HD1	TRP	X	113	36.447	41.471	31.518	0.00	0.00
ATOM	1762	NE1	TRP	X	113	37.453	39.893	32.443	0.00	0.00
ATOM	1763	HE1	TRP	X	113	38.393	40.242	32.321	0.00	0.00
ATOM	1764	CE2	TRP	X	113	37.203	38.809	33.227	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	38.020	37.727	33.672	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	39.043	37.627	33.341	0.00	0.00
ATOM	1767	CH2	TRP	X	113	37.393	36.734	34.444	0.00	0.00
ATOM	1768	HH2	TRP	X	113	37.948	35.935	34.913	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	36.022	36.898	34.820	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	35.495	36.259	35.514	0.00	0.00
ATOM	1771	CE3	TRP	X	113	35.214	37.926	34.296	0.00	0.00
ATOM	1772	HE3	TRP	X	113	34.162	37.962	34.541	0.00	0.00
ATOM	1773	CD2	TRP	X	113	35.763	38.814	33.368	0.00	0.00
ATOM	1774	C	TRP	X	113	34.075	42.156	34.259	0.00	0.00
ATOM	1775	O	TRP	X	113	33.864	43.273	33.750	0.00	0.00
ATOM	1776	N	ILE	X	114	34.995	41.919	35.131	0.00	0.00
ATOM	1777	H	ILE	X	114	34.966	40.988	35.522	0.00	0.00
ATOM	1778	CA	ILE	X	114	36.106	42.770	35.590	0.00	0.00
ATOM	1779	HA	ILE	X	114	36.182	43.745	35.108	0.00	0.00
ATOM	1780	CB	ILE	X	114	35.771	43.076	37.096	0.00	0.00
ATOM	1781	HB	ILE	X	114	35.781	42.170	37.702	0.00	0.00
ATOM	1782	CG2	ILE	X	114	36.756	44.127	37.601	0.00	0.00
ATOM	1783	HG21	ILE	X	114	36.508	45.091	37.156	0.00	0.00
ATOM	1784	HG22	ILE	X	114	37.791	43.865	37.379	0.00	0.00
ATOM	1785	HG23	ILE	X	114	36.570	44.317	38.658	0.00	0.00
ATOM	1786	CG1	ILE	X	114	34.310	43.680	37.254	0.00	0.00
ATOM	1787	HG12	ILE	X	114	34.183	44.473	36.517	0.00	0.00
ATOM	1788	HG13	ILE	X	114	33.668	42.830	37.022	0.00	0.00
ATOM	1789	CD1	ILE	X	114	33.887	44.186	38.661	0.00	0.00
ATOM	1790	HD11	ILE	X	114	34.394	43.579	39.411	0.00	0.00
ATOM	1791	HD12	ILE	X	114	32.841	43.964	38.870	0.00	0.00
ATOM	1792	HD13	ILE	X	114	34.177	45.224	38.820	0.00	0.00
ATOM	1793	C	ILE	X	114	37.402	41.982	35.486	0.00	0.00

ATOM	1794	O	ILE	X	114	37.373	40.859	35.820	0.00	0.00
ATOM	1795	N	TYR	X	115	38.509	42.558	35.011	0.00	0.00
ATOM	1796	H	TYR	X	115	38.469	43.547	34.810	0.00	0.00
ATOM	1797	CA	TYR	X	115	39.792	41.802	34.721	0.00	0.00
ATOM	1798	HA	TYR	X	115	39.717	40.717	34.655	0.00	0.00
ATOM	1799	CB	TYR	X	115	40.352	42.223	33.312	0.00	0.00
ATOM	1800	HB2	TYR	X	115	41.367	41.832	33.240	0.00	0.00
ATOM	1801	HB3	TYR	X	115	39.705	41.785	32.552	0.00	0.00
ATOM	1802	CG	TYR	X	115	40.401	43.777	33.121	0.00	0.00
ATOM	1803	CD1	TYR	X	115	41.369	44.586	33.674	0.00	0.00
ATOM	1804	HD1	TYR	X	115	42.065	44.135	34.364	0.00	0.00
ATOM	1805	CE1	TYR	X	115	41.477	45.972	33.404	0.00	0.00
ATOM	1806	HE1	TYR	X	115	42.265	46.540	33.876	0.00	0.00
ATOM	1807	CZ	TYR	X	115	40.535	46.579	32.550	0.00	0.00
ATOM	1808	OH	TYR	X	115	40.493	47.964	32.465	0.00	0.00
ATOM	1809	HH	TYR	X	115	41.223	48.405	32.907	0.00	0.00
ATOM	1810	CE2	TYR	X	115	39.578	45.796	31.943	0.00	0.00
ATOM	1811	HE2	TYR	X	115	38.931	46.230	31.195	0.00	0.00
ATOM	1812	CD2	TYR	X	115	39.564	44.372	32.190	0.00	0.00
ATOM	1813	HD2	TYR	X	115	38.743	43.862	31.709	0.00	0.00
ATOM	1814	C	TYR	X	115	40.815	41.988	35.885	0.00	0.00
ATOM	1815	O	TYR	X	115	40.958	43.009	36.549	0.00	0.00
ATOM	1816	N	GLY	X	116	41.659	40.969	36.130	0.00	0.00
ATOM	1817	H	GLY	X	116	41.478	40.113	35.626	0.00	0.00
ATOM	1818	CA	GLY	X	116	42.843	41.059	36.939	0.00	0.00
ATOM	1819	HA2	GLY	X	116	42.708	41.566	37.894	0.00	0.00
ATOM	1820	HA3	GLY	X	116	43.240	40.050	37.052	0.00	0.00
ATOM	1821	C	GLY	X	116	44.004	41.826	36.247	0.00	0.00
ATOM	1822	O	GLY	X	116	43.780	42.470	35.206	0.00	0.00
ATOM	1823	N	GLY	X	117	45.144	41.671	36.891	0.00	0.00
ATOM	1824	H	GLY	X	117	45.136	40.941	37.589	0.00	0.00
ATOM	1825	CA	GLY	X	117	46.443	42.319	36.569	0.00	0.00
ATOM	1826	HA2	GLY	X	117	47.132	41.534	36.257	0.00	0.00
ATOM	1827	HA3	GLY	X	117	46.191	42.997	35.754	0.00	0.00
ATOM	1828	C	GLY	X	117	47.135	43.118	37.624	0.00	0.00
ATOM	1829	O	GLY	X	117	47.802	44.165	37.355	0.00	0.00
ATOM	1830	N	GLY	X	118	46.707	42.882	38.858	0.00	0.00
ATOM	1831	H	GLY	X	118	46.223	42.018	39.054	0.00	0.00
ATOM	1832	CA	GLY	X	118	47.118	43.621	39.997	0.00	0.00
ATOM	1833	HA2	GLY	X	118	46.804	43.088	40.894	0.00	0.00
ATOM	1834	HA3	GLY	X	118	48.205	43.709	39.994	0.00	0.00
ATOM	1835	C	GLY	X	118	46.703	45.106	40.216	0.00	0.00
ATOM	1836	O	GLY	X	118	47.402	45.837	40.915	0.00	0.00
ATOM	1837	N	PHE	X	119	45.710	45.593	39.522	0.00	0.00
ATOM	1838	H	PHE	X	119	45.310	44.970	38.834	0.00	0.00
ATOM	1839	CA	PHE	X	119	45.247	46.980	39.583	0.00	0.00
ATOM	1840	HA	PHE	X	119	44.347	47.037	38.970	0.00	0.00
ATOM	1841	CB	PHE	X	119	44.893	47.469	41.034	0.00	0.00
ATOM	1842	HB2	PHE	X	119	45.671	47.257	41.769	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.723	48.545	41.002	0.00	0.00
ATOM	1844	CG	PHE	X	119	43.673	46.857	41.730	0.00	0.00
ATOM	1845	CD1	PHE	X	119	42.444	47.349	41.297	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.399	48.062	40.487	0.00	0.00
ATOM	1847	CE1	PHE	X	119	41.231	46.863	41.813	0.00	0.00
ATOM	1848	HE1	PHE	X	119	40.271	47.243	41.495	0.00	0.00
ATOM	1849	CZ	PHE	X	119	41.274	45.909	42.847	0.00	0.00
ATOM	1850	HZ	PHE	X	119	40.345	45.549	43.263	0.00	0.00
ATOM	1851	CE2	PHE	X	119	42.532	45.430	43.300	0.00	0.00
ATOM	1852	HE2	PHE	X	119	42.490	44.786	44.166	0.00	0.00
ATOM	1853	CD2	PHE	X	119	43.728	45.899	42.747	0.00	0.00
ATOM	1854	HD2	PHE	X	119	44.674	45.463	43.032	0.00	0.00
ATOM	1855	C	PHE	X	119	46.207	47.992	38.906	0.00	0.00
ATOM	1856	O	PHE	X	119	45.806	49.070	38.381	0.00	0.00
ATOM	1857	N	TYR	X	120	47.477	47.742	38.923	0.00	0.00
ATOM	1858	H	TYR	X	120	47.787	46.964	39.487	0.00	0.00
ATOM	1859	CA	TYR	X	120	48.533	48.490	38.110	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.261	49.545	38.128	0.00	0.00

ATOM	1861	CB	TYR	X	120	49.829	48.289	38.826	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.472	49.114	38.518	0.00	0.00
ATOM	1863	HB3	TYR	X	120	49.630	48.286	39.897	0.00	0.00
ATOM	1864	CG	TYR	X	120	50.685	47.055	38.556	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.068	47.108	38.239	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.643	48.019	38.157	0.00	0.00
ATOM	1867	CE1	TYR	X	120	52.833	45.927	37.913	0.00	0.00
ATOM	1868	HE1	TYR	X	120	53.895	46.021	37.737	0.00	0.00
ATOM	1869	CZ	TYR	X	120	52.193	44.632	37.912	0.00	0.00
ATOM	1870	OH	TYR	X	120	52.874	43.518	37.779	0.00	0.00
ATOM	1871	HH	TYR	X	120	53.804	43.658	37.586	0.00	0.00
ATOM	1872	CE2	TYR	X	120	50.818	44.607	38.269	0.00	0.00
ATOM	1873	HE2	TYR	X	120	50.280	43.673	38.347	0.00	0.00
ATOM	1874	CD2	TYR	X	120	50.088	45.793	38.580	0.00	0.00
ATOM	1875	HD2	TYR	X	120	49.063	45.555	38.824	0.00	0.00
ATOM	1876	C	TYR	X	120	48.570	48.111	36.625	0.00	0.00
ATOM	1877	O	TYR	X	120	49.253	48.805	35.859	0.00	0.00
ATOM	1878	N	SER	X	121	47.825	47.013	36.154	0.00	0.00
ATOM	1879	H	SER	X	121	47.464	46.406	36.877	0.00	0.00
ATOM	1880	CA	SER	X	121	47.658	46.611	34.776	0.00	0.00
ATOM	1881	HA	SER	X	121	47.488	47.513	34.188	0.00	0.00
ATOM	1882	CB	SER	X	121	48.939	45.882	34.271	0.00	0.00
ATOM	1883	HB2	SER	X	121	48.936	45.779	33.186	0.00	0.00
ATOM	1884	HB3	SER	X	121	49.760	46.573	34.463	0.00	0.00
ATOM	1885	OG	SER	X	121	49.172	44.682	35.051	0.00	0.00
ATOM	1886	HG	SER	X	121	48.643	44.822	35.839	0.00	0.00
ATOM	1887	C	SER	X	121	46.425	45.663	34.532	0.00	0.00
ATOM	1888	O	SER	X	121	45.709	45.298	35.471	0.00	0.00
ATOM	1889	N	GLY	X	122	46.170	45.350	33.218	0.00	0.00
ATOM	1890	H	GLY	X	122	46.732	45.678	32.446	0.00	0.00
ATOM	1891	CA	GLY	X	122	44.983	44.645	32.708	0.00	0.00
ATOM	1892	HA2	GLY	X	122	45.243	43.795	32.078	0.00	0.00
ATOM	1893	HA3	GLY	X	122	44.285	44.374	33.501	0.00	0.00
ATOM	1894	C	GLY	X	122	44.291	45.601	31.709	0.00	0.00
ATOM	1895	O	GLY	X	122	44.538	46.768	31.612	0.00	0.00
ATOM	1896	N	ALA	X	123	43.286	45.081	31.020	0.00	0.00
ATOM	1897	H	ALA	X	123	43.032	44.136	31.270	0.00	0.00
ATOM	1898	CA	ALA	X	123	42.541	45.675	29.912	0.00	0.00
ATOM	1899	HA	ALA	X	123	41.898	46.457	30.316	0.00	0.00
ATOM	1900	CB	ALA	X	123	43.455	46.254	28.926	0.00	0.00
ATOM	1901	HB1	ALA	X	123	42.778	46.801	28.269	0.00	0.00
ATOM	1902	HB2	ALA	X	123	44.017	45.601	28.258	0.00	0.00
ATOM	1903	HB3	ALA	X	123	44.143	47.016	29.293	0.00	0.00
ATOM	1904	C	ALA	X	123	41.673	44.629	29.207	0.00	0.00
ATOM	1905	O	ALA	X	123	42.032	43.432	29.163	0.00	0.00
ATOM	1906	N	SER	X	124	40.504	44.954	28.652	0.00	0.00
ATOM	1907	H	SER	X	124	40.210	45.920	28.695	0.00	0.00
ATOM	1908	CA	SER	X	124	39.479	43.969	28.255	0.00	0.00
ATOM	1909	HA	SER	X	124	39.709	43.017	28.732	0.00	0.00
ATOM	1910	CB	SER	X	124	38.110	44.360	28.719	0.00	0.00
ATOM	1911	HB2	SER	X	124	37.353	43.687	28.314	0.00	0.00
ATOM	1912	HB3	SER	X	124	38.009	44.353	29.804	0.00	0.00
ATOM	1913	OG	SER	X	124	37.752	45.717	28.322	0.00	0.00
ATOM	1914	HG	SER	X	124	37.277	45.946	29.124	0.00	0.00
ATOM	1915	C	SER	X	124	39.420	43.581	26.783	0.00	0.00
ATOM	1916	O	SER	X	124	38.676	42.720	26.305	0.00	0.00
ATOM	1917	N	SER	X	125	40.158	44.285	25.868	0.00	0.00
ATOM	1918	H	SER	X	125	40.573	45.098	26.301	0.00	0.00
ATOM	1919	CA	SER	X	125	40.265	44.026	24.420	0.00	0.00
ATOM	1920	HA	SER	X	125	39.256	43.785	24.087	0.00	0.00
ATOM	1921	CB	SER	X	125	40.926	45.243	23.749	0.00	0.00
ATOM	1922	HB2	SER	X	125	40.844	45.058	22.678	0.00	0.00
ATOM	1923	HB3	SER	X	125	40.258	46.083	23.946	0.00	0.00
ATOM	1924	OG	SER	X	125	42.266	45.469	24.091	0.00	0.00
ATOM	1925	HG	SER	X	125	42.851	44.902	23.582	0.00	0.00
ATOM	1926	C	SER	X	125	40.961	42.709	24.006	0.00	0.00
ATOM	1927	O	SER	X	125	40.894	42.137	22.926	0.00	0.00

ATOM	1928	N	LEU	X	126	41.807	42.209	24.958	0.00	0.00
ATOM	1929	H	LEU	X	126	41.836	42.842	25.744	0.00	0.00
ATOM	1930	CA	LEU	X	126	42.562	41.001	25.067	0.00	0.00
ATOM	1931	HA	LEU	X	126	43.363	41.084	24.333	0.00	0.00
ATOM	1932	CB	LEU	X	126	43.234	40.762	26.387	0.00	0.00
ATOM	1933	HB2	LEU	X	126	42.409	40.675	27.094	0.00	0.00
ATOM	1934	HB3	LEU	X	126	43.657	39.757	26.384	0.00	0.00
ATOM	1935	CG	LEU	X	126	44.246	41.769	26.907	0.00	0.00
ATOM	1936	HG	LEU	X	126	43.738	42.733	26.886	0.00	0.00
ATOM	1937	CD1	LEU	X	126	44.683	41.540	28.407	0.00	0.00
ATOM	1938	HD11	LEU	X	126	45.122	42.403	28.908	0.00	0.00
ATOM	1939	HD12	LEU	X	126	45.369	40.706	28.559	0.00	0.00
ATOM	1940	HD13	LEU	X	126	43.804	41.295	29.003	0.00	0.00
ATOM	1941	CD2	LEU	X	126	45.410	41.889	25.996	0.00	0.00
ATOM	1942	HD21	LEU	X	126	45.118	42.006	24.952	0.00	0.00
ATOM	1943	HD22	LEU	X	126	45.939	42.773	26.352	0.00	0.00
ATOM	1944	HD23	LEU	X	126	46.015	40.988	26.099	0.00	0.00
ATOM	1945	C	LEU	X	126	41.713	39.725	24.808	0.00	0.00
ATOM	1946	O	LEU	X	126	40.607	39.627	25.325	0.00	0.00
ATOM	1947	N	ASP	X	127	42.157	38.781	23.956	0.00	0.00
ATOM	1948	H	ASP	X	127	42.959	38.981	23.375	0.00	0.00
ATOM	1949	CA	ASP	X	127	41.265	37.751	23.405	0.00	0.00
ATOM	1950	HA	ASP	X	127	40.349	38.285	23.152	0.00	0.00
ATOM	1951	CB	ASP	X	127	41.870	37.336	22.037	0.00	0.00
ATOM	1952	HB2	ASP	X	127	41.175	36.833	21.366	0.00	0.00
ATOM	1953	HB3	ASP	X	127	42.166	38.208	21.454	0.00	0.00
ATOM	1954	CG	ASP	X	127	43.137	36.422	22.004	0.00	0.00
ATOM	1955	OD1	ASP	X	127	44.160	36.997	21.502	0.00	0.00
ATOM	1956	OD2	ASP	X	127	43.035	35.257	22.390	0.00	0.00
ATOM	1957	C	ASP	X	127	40.898	36.585	24.237	0.00	0.00
ATOM	1958	O	ASP	X	127	39.981	35.844	23.959	0.00	0.00
ATOM	1959	N	VAL	X	128	41.542	36.405	25.349	0.00	0.00
ATOM	1960	H	VAL	X	128	42.379	36.955	25.486	0.00	0.00
ATOM	1961	CA	VAL	X	128	41.229	35.481	26.452	0.00	0.00
ATOM	1962	HA	VAL	X	128	41.078	34.516	25.968	0.00	0.00
ATOM	1963	CB	VAL	X	128	42.530	35.161	27.254	0.00	0.00
ATOM	1964	HB	VAL	X	128	43.364	34.973	26.577	0.00	0.00
ATOM	1965	CG1	VAL	X	128	42.941	36.277	28.223	0.00	0.00
ATOM	1966	HG11	VAL	X	128	43.075	37.154	27.591	0.00	0.00
ATOM	1967	HG12	VAL	X	128	42.300	36.368	29.100	0.00	0.00
ATOM	1968	HG13	VAL	X	128	43.993	36.087	28.437	0.00	0.00
ATOM	1969	CG2	VAL	X	128	42.340	33.880	28.054	0.00	0.00
ATOM	1970	HG21	VAL	X	128	43.250	33.547	28.553	0.00	0.00
ATOM	1971	HG22	VAL	X	128	42.062	33.195	27.253	0.00	0.00
ATOM	1972	HG23	VAL	X	128	41.468	33.875	28.709	0.00	0.00
ATOM	1973	C	VAL	X	128	39.987	35.875	27.334	0.00	0.00
ATOM	1974	O	VAL	X	128	39.367	35.031	27.960	0.00	0.00
ATOM	1975	N	TYR	X	129	39.571	37.142	27.322	0.00	0.00
ATOM	1976	H	TYR	X	129	40.073	37.708	26.652	0.00	0.00
ATOM	1977	CA	TYR	X	129	38.459	37.702	28.058	0.00	0.00
ATOM	1978	HA	TYR	X	129	38.204	37.046	28.890	0.00	0.00
ATOM	1979	CB	TYR	X	129	38.809	39.056	28.679	0.00	0.00
ATOM	1980	HB2	TYR	X	129	38.957	39.777	27.875	0.00	0.00
ATOM	1981	HB3	TYR	X	129	37.926	39.340	29.251	0.00	0.00
ATOM	1982	CG	TYR	X	129	40.061	39.062	29.549	0.00	0.00
ATOM	1983	CD1	TYR	X	129	40.293	38.093	30.583	0.00	0.00
ATOM	1984	HD1	TYR	X	129	39.698	37.194	30.645	0.00	0.00
ATOM	1985	CE1	TYR	X	129	41.313	38.224	31.577	0.00	0.00
ATOM	1986	HE1	TYR	X	129	41.463	37.563	32.418	0.00	0.00
ATOM	1987	CZ	TYR	X	129	42.078	39.379	31.579	0.00	0.00
ATOM	1988	OH	TYR	X	129	42.987	39.585	32.558	0.00	0.00
ATOM	1989	HH	TYR	X	129	42.838	39.043	33.336	0.00	0.00
ATOM	1990	CE2	TYR	X	129	41.887	40.382	30.583	0.00	0.00
ATOM	1991	HE2	TYR	X	129	42.448	41.299	30.682	0.00	0.00
ATOM	1992	CD2	TYR	X	129	40.926	40.192	29.646	0.00	0.00
ATOM	1993	HD2	TYR	X	129	40.807	40.990	28.928	0.00	0.00
ATOM	1994	C	TYR	X	129	37.097	37.817	27.175	0.00	0.00

ATOM	1995	O	TYR	X	129	36.202	38.577	27.520	0.00	0.00
ATOM	1996	N	ASP	X	130	37.040	37.155	26.066	0.00	0.00
ATOM	1997	H	ASP	X	130	37.800	36.515	25.882	0.00	0.00
ATOM	1998	CA	ASP	X	130	35.963	37.309	25.092	0.00	0.00
ATOM	1999	HA	ASP	X	130	35.667	38.358	25.120	0.00	0.00
ATOM	2000	CB	ASP	X	130	36.541	36.928	23.695	0.00	0.00
ATOM	2001	HB2	ASP	X	130	37.527	37.368	23.547	0.00	0.00
ATOM	2002	HB3	ASP	X	130	36.602	35.843	23.609	0.00	0.00
ATOM	2003	CG	ASP	X	130	35.569	37.330	22.590	0.00	0.00
ATOM	2004	OD1	ASP	X	130	34.381	36.926	22.560	0.00	0.00
ATOM	2005	OD2	ASP	X	130	36.030	38.102	21.731	0.00	0.00
ATOM	2006	C	ASP	X	130	34.797	36.381	25.488	0.00	0.00
ATOM	2007	O	ASP	X	130	35.047	35.189	25.683	0.00	0.00
ATOM	2008	N	GLY	X	131	33.583	36.925	25.628	0.00	0.00
ATOM	2009	H	GLY	X	131	33.384	37.906	25.495	0.00	0.00
ATOM	2010	CA	GLY	X	131	32.465	36.090	25.992	0.00	0.00
ATOM	2011	HA2	GLY	X	131	32.825	35.389	26.746	0.00	0.00
ATOM	2012	HA3	GLY	X	131	31.723	36.650	26.561	0.00	0.00
ATOM	2013	C	GLY	X	131	31.691	35.250	24.953	0.00	0.00
ATOM	2014	O	GLY	X	131	30.718	34.600	25.318	0.00	0.00
ATOM	2015	N	ARG	X	132	32.079	35.339	23.671	0.00	0.00
ATOM	2016	H	ARG	X	132	32.947	35.820	23.480	0.00	0.00
ATOM	2017	CA	ARG	X	132	31.209	34.811	22.552	0.00	0.00
ATOM	2018	HA	ARG	X	132	30.356	35.486	22.467	0.00	0.00
ATOM	2019	CB	ARG	X	132	31.842	35.000	21.209	0.00	0.00
ATOM	2020	HB2	ARG	X	132	31.109	34.728	20.450	0.00	0.00
ATOM	2021	HB3	ARG	X	132	32.068	36.067	21.194	0.00	0.00
ATOM	2022	CG	ARG	X	132	33.115	34.153	20.895	0.00	0.00
ATOM	2023	HG2	ARG	X	132	33.734	34.199	21.791	0.00	0.00
ATOM	2024	HG3	ARG	X	132	32.758	33.127	20.808	0.00	0.00
ATOM	2025	CD	ARG	X	132	33.917	34.570	19.605	0.00	0.00
ATOM	2026	HD2	ARG	X	132	34.640	33.813	19.302	0.00	0.00
ATOM	2027	HD3	ARG	X	132	33.127	34.624	18.856	0.00	0.00
ATOM	2028	NE	ARG	X	132	34.517	35.823	19.692	0.00	0.00
ATOM	2029	HE	ARG	X	132	34.435	36.246	20.606	0.00	0.00
ATOM	2030	CZ	ARG	X	132	35.369	36.337	18.793	0.00	0.00
ATOM	2031	NH1	ARG	X	132	35.562	35.838	17.611	0.00	0.00
ATOM	2032	HH11	ARG	X	132	35.203	34.933	17.343	0.00	0.00
ATOM	2033	HH12	ARG	X	132	36.257	36.149	16.948	0.00	0.00
ATOM	2034	NH2	ARG	X	132	36.049	37.388	19.111	0.00	0.00
ATOM	2035	HH21	ARG	X	132	35.985	37.872	19.995	0.00	0.00
ATOM	2036	HH22	ARG	X	132	36.548	37.838	18.357	0.00	0.00
ATOM	2037	C	ARG	X	132	30.806	33.335	22.794	0.00	0.00
ATOM	2038	O	ARG	X	132	29.638	32.957	22.582	0.00	0.00
ATOM	2039	N	PHE	X	133	31.694	32.435	23.201	0.00	0.00
ATOM	2040	H	PHE	X	133	32.677	32.651	23.291	0.00	0.00
ATOM	2041	CA	PHE	X	133	31.316	31.004	23.275	0.00	0.00
ATOM	2042	HA	PHE	X	133	30.824	30.790	22.326	0.00	0.00
ATOM	2043	CB	PHE	X	133	32.463	30.036	23.339	0.00	0.00
ATOM	2044	HB2	PHE	X	133	33.215	30.586	23.905	0.00	0.00
ATOM	2045	HB3	PHE	X	133	32.124	29.094	23.771	0.00	0.00
ATOM	2046	CG	PHE	X	133	33.152	29.747	21.990	0.00	0.00
ATOM	2047	CD1	PHE	X	133	33.945	30.674	21.201	0.00	0.00
ATOM	2048	HD1	PHE	X	133	34.065	31.688	21.553	0.00	0.00
ATOM	2049	CE1	PHE	X	133	34.432	30.271	19.929	0.00	0.00
ATOM	2050	HE1	PHE	X	133	34.983	30.919	19.262	0.00	0.00
ATOM	2051	CZ	PHE	X	133	33.963	29.049	19.397	0.00	0.00
ATOM	2052	HZ	PHE	X	133	34.279	28.753	18.408	0.00	0.00
ATOM	2053	CE2	PHE	X	133	33.238	28.155	20.175	0.00	0.00
ATOM	2054	HE2	PHE	X	133	32.994	27.169	19.808	0.00	0.00
ATOM	2055	CD2	PHE	X	133	32.826	28.465	21.460	0.00	0.00
ATOM	2056	HD2	PHE	X	133	32.188	27.786	22.006	0.00	0.00
ATOM	2057	C	PHE	X	133	30.231	30.823	24.386	0.00	0.00
ATOM	2058	O	PHE	X	133	29.180	30.188	24.175	0.00	0.00
ATOM	2059	N	LEU	X	134	30.410	31.499	25.573	0.00	0.00
ATOM	2060	H	LEU	X	134	31.270	32.026	25.622	0.00	0.00
ATOM	2061	CA	LEU	X	134	29.456	31.384	26.666	0.00	0.00

ATOM	2062	HA	LEU	X	134	29.278	30.311	26.737	0.00	0.00
ATOM	2063	CB	LEU	X	134	30.101	31.981	27.991	0.00	0.00
ATOM	2064	HB2	LEU	X	134	31.057	31.487	28.164	0.00	0.00
ATOM	2065	HB3	LEU	X	134	30.369	33.027	27.839	0.00	0.00
ATOM	2066	CG	LEU	X	134	29.165	31.794	29.220	0.00	0.00
ATOM	2067	HG	LEU	X	134	28.128	31.972	28.933	0.00	0.00
ATOM	2068	CD1	LEU	X	134	29.208	30.327	29.764	0.00	0.00
ATOM	2069	HD11	LEU	X	134	30.255	30.090	29.957	0.00	0.00
ATOM	2070	HD12	LEU	X	134	28.853	29.645	28.991	0.00	0.00
ATOM	2071	HD13	LEU	X	134	28.611	30.294	30.675	0.00	0.00
ATOM	2072	CD2	LEU	X	134	29.465	32.789	30.324	0.00	0.00
ATOM	2073	HD21	LEU	X	134	30.448	32.612	30.759	0.00	0.00
ATOM	2074	HD22	LEU	X	134	29.300	33.756	29.850	0.00	0.00
ATOM	2075	HD23	LEU	X	134	28.698	32.625	31.081	0.00	0.00
ATOM	2076	C	LEU	X	134	28.104	31.989	26.339	0.00	0.00
ATOM	2077	O	LEU	X	134	27.117	31.260	26.448	0.00	0.00
ATOM	2078	N	VAL	X	135	27.981	33.199	25.744	0.00	0.00
ATOM	2079	H	VAL	X	135	28.814	33.736	25.547	0.00	0.00
ATOM	2080	CA	VAL	X	135	26.759	33.743	25.105	0.00	0.00
ATOM	2081	HA	VAL	X	135	26.095	33.801	25.968	0.00	0.00
ATOM	2082	CB	VAL	X	135	27.030	35.140	24.466	0.00	0.00
ATOM	2083	HB	VAL	X	135	27.813	34.922	23.740	0.00	0.00
ATOM	2084	CG1	VAL	X	135	25.819	35.711	23.783	0.00	0.00
ATOM	2085	HG11	VAL	X	135	25.600	35.211	22.839	0.00	0.00
ATOM	2086	HG12	VAL	X	135	24.942	35.644	24.426	0.00	0.00
ATOM	2087	HG13	VAL	X	135	25.986	36.740	23.465	0.00	0.00
ATOM	2088	CG2	VAL	X	135	27.437	36.088	25.538	0.00	0.00
ATOM	2089	HG21	VAL	X	135	26.878	36.010	26.471	0.00	0.00
ATOM	2090	HG22	VAL	X	135	27.311	37.107	25.172	0.00	0.00
ATOM	2091	HG23	VAL	X	135	28.475	35.927	25.829	0.00	0.00
ATOM	2092	C	VAL	X	135	26.066	32.839	24.086	0.00	0.00
ATOM	2093	O	VAL	X	135	24.820	32.615	24.115	0.00	0.00
ATOM	2094	N	GLN	X	136	26.828	32.215	23.166	0.00	0.00
ATOM	2095	H	GLN	X	136	27.825	32.367	23.109	0.00	0.00
ATOM	2096	CA	GLN	X	136	26.299	31.343	22.163	0.00	0.00
ATOM	2097	HA	GLN	X	136	25.477	31.908	21.724	0.00	0.00
ATOM	2098	CB	GLN	X	136	27.307	31.022	21.088	0.00	0.00
ATOM	2099	HB2	GLN	X	136	27.554	31.912	20.510	0.00	0.00
ATOM	2100	HB3	GLN	X	136	28.218	30.724	21.608	0.00	0.00
ATOM	2101	CG	GLN	X	136	26.963	29.952	19.993	0.00	0.00
ATOM	2102	HG2	GLN	X	136	25.873	29.958	20.004	0.00	0.00
ATOM	2103	HG3	GLN	X	136	27.313	30.199	18.990	0.00	0.00
ATOM	2104	CD	GLN	X	136	27.422	28.545	20.294	0.00	0.00
ATOM	2105	OE1	GLN	X	136	28.441	28.021	19.979	0.00	0.00
ATOM	2106	NE2	GLN	X	136	26.558	27.693	20.887	0.00	0.00
ATOM	2107	HE21	GLN	X	136	26.871	26.813	21.270	0.00	0.00
ATOM	2108	HE22	GLN	X	136	25.675	28.092	21.171	0.00	0.00
ATOM	2109	C	GLN	X	136	25.668	30.124	22.845	0.00	0.00
ATOM	2110	O	GLN	X	136	24.674	29.583	22.409	0.00	0.00
ATOM	2111	N	ALA	X	137	26.310	29.628	23.922	0.00	0.00
ATOM	2112	H	ALA	X	137	27.153	30.095	24.221	0.00	0.00
ATOM	2113	CA	ALA	X	137	26.038	28.348	24.576	0.00	0.00
ATOM	2114	HA	ALA	X	137	25.880	27.625	23.776	0.00	0.00
ATOM	2115	CB	ALA	X	137	27.363	28.017	25.286	0.00	0.00
ATOM	2116	HB1	ALA	X	137	27.498	28.812	26.019	0.00	0.00
ATOM	2117	HB2	ALA	X	137	28.160	27.796	24.576	0.00	0.00
ATOM	2118	HB3	ALA	X	137	27.240	27.079	25.827	0.00	0.00
ATOM	2119	C	ALA	X	137	24.750	28.366	25.502	0.00	0.00
ATOM	2120	O	ALA	X	137	23.886	27.445	25.522	0.00	0.00
ATOM	2121	N	GLU	X	138	24.762	29.433	26.308	0.00	0.00
ATOM	2122	H	GLU	X	138	25.560	30.046	26.222	0.00	0.00
ATOM	2123	CA	GLU	X	138	23.950	29.506	27.512	0.00	0.00
ATOM	2124	HA	GLU	X	138	23.453	28.542	27.619	0.00	0.00
ATOM	2125	CB	GLU	X	138	24.842	29.765	28.740	0.00	0.00
ATOM	2126	HB2	GLU	X	138	25.449	30.635	28.489	0.00	0.00
ATOM	2127	HB3	GLU	X	138	24.251	29.948	29.637	0.00	0.00
ATOM	2128	CG	GLU	X	138	25.764	28.595	28.959	0.00	0.00

ATOM	2129	HG2	GLU	X	138	26.423	28.400	28.114	0.00	0.00
ATOM	2130	HG3	GLU	X	138	26.535	28.774	29.708	0.00	0.00
ATOM	2131	CD	GLU	X	138	24.959	27.370	29.462	0.00	0.00
ATOM	2132	OE1	GLU	X	138	23.922	27.559	30.147	0.00	0.00
ATOM	2133	OE2	GLU	X	138	25.388	26.196	29.162	0.00	0.00
ATOM	2134	C	GLU	X	138	22.843	30.552	27.310	0.00	0.00
ATOM	2135	O	GLU	X	138	21.900	30.526	28.088	0.00	0.00
ATOM	2136	N	ARG	X	139	23.010	31.433	26.327	0.00	0.00
ATOM	2137	H	ARG	X	139	23.711	31.289	25.615	0.00	0.00
ATOM	2138	CA	ARG	X	139	22.092	32.468	25.862	0.00	0.00
ATOM	2139	HA	ARG	X	139	22.513	33.032	25.029	0.00	0.00
ATOM	2140	CB	ARG	X	139	20.779	31.944	25.318	0.00	0.00
ATOM	2141	HB2	ARG	X	139	20.149	31.672	26.164	0.00	0.00
ATOM	2142	HB3	ARG	X	139	20.218	32.739	24.826	0.00	0.00
ATOM	2143	CG	ARG	X	139	20.946	30.812	24.278	0.00	0.00
ATOM	2144	HG2	ARG	X	139	21.554	31.278	23.503	0.00	0.00
ATOM	2145	HG3	ARG	X	139	21.479	29.923	24.618	0.00	0.00
ATOM	2146	CD	ARG	X	139	19.523	30.431	23.754	0.00	0.00
ATOM	2147	HD2	ARG	X	139	19.709	29.826	22.867	0.00	0.00
ATOM	2148	HD3	ARG	X	139	19.016	29.967	24.600	0.00	0.00
ATOM	2149	NE	ARG	X	139	18.629	31.569	23.227	0.00	0.00
ATOM	2150	HE	ARG	X	139	17.886	31.830	23.860	0.00	0.00
ATOM	2151	CZ	ARG	X	139	18.734	32.364	22.161	0.00	0.00
ATOM	2152	NH1	ARG	X	139	19.782	32.365	21.308	0.00	0.00
ATOM	2153	HH11	ARG	X	139	20.588	31.787	21.495	0.00	0.00
ATOM	2154	HH12	ARG	X	139	19.687	32.766	20.386	0.00	0.00
ATOM	2155	NH2	ARG	X	139	17.718	33.179	21.906	0.00	0.00
ATOM	2156	HH21	ARG	X	139	16.927	33.271	22.527	0.00	0.00
ATOM	2157	HH22	ARG	X	139	17.722	33.871	21.170	0.00	0.00
ATOM	2158	C	ARG	X	139	21.844	33.624	26.912	0.00	0.00
ATOM	2159	O	ARG	X	139	21.052	34.525	26.667	0.00	0.00
ATOM	2160	N	THR	X	140	22.653	33.615	28.007	0.00	0.00
ATOM	2161	H	THR	X	140	23.129	32.733	28.132	0.00	0.00
ATOM	2162	CA	THR	X	140	22.927	34.725	28.866	0.00	0.00
ATOM	2163	HA	THR	X	140	21.990	35.070	29.303	0.00	0.00
ATOM	2164	CB	THR	X	140	23.829	34.310	30.010	0.00	0.00
ATOM	2165	HB	THR	X	140	23.983	35.236	30.565	0.00	0.00
ATOM	2166	CG2	THR	X	140	23.316	33.113	30.824	0.00	0.00
ATOM	2167	HG21	THR	X	140	23.636	32.230	30.271	0.00	0.00
ATOM	2168	HG22	THR	X	140	22.233	33.230	30.819	0.00	0.00
ATOM	2169	HG23	THR	X	140	23.765	33.073	31.817	0.00	0.00
ATOM	2170	OG1	THR	X	140	25.042	33.883	29.544	0.00	0.00
ATOM	2171	HG1	THR	X	140	25.319	34.358	28.757	0.00	0.00
ATOM	2172	C	THR	X	140	23.658	35.839	28.110	0.00	0.00
ATOM	2173	O	THR	X	140	24.533	35.487	27.332	0.00	0.00
ATOM	2174	N	VAL	X	141	23.322	37.086	28.385	0.00	0.00
ATOM	2175	H	VAL	X	141	22.799	37.221	29.238	0.00	0.00
ATOM	2176	CA	VAL	X	141	24.023	38.281	27.804	0.00	0.00
ATOM	2177	HA	VAL	X	141	24.339	38.018	26.794	0.00	0.00
ATOM	2178	CB	VAL	X	141	23.054	39.475	27.688	0.00	0.00
ATOM	2179	HB	VAL	X	141	22.658	39.488	28.703	0.00	0.00
ATOM	2180	CG1	VAL	X	141	23.694	40.923	27.434	0.00	0.00
ATOM	2181	HG11	VAL	X	141	24.202	40.794	26.478	0.00	0.00
ATOM	2182	HG12	VAL	X	141	22.940	41.700	27.303	0.00	0.00
ATOM	2183	HG13	VAL	X	141	24.323	41.120	28.303	0.00	0.00
ATOM	2184	CG2	VAL	X	141	21.840	39.264	26.787	0.00	0.00
ATOM	2185	HG21	VAL	X	141	21.349	38.312	26.986	0.00	0.00
ATOM	2186	HG22	VAL	X	141	22.223	39.075	25.784	0.00	0.00
ATOM	2187	HG23	VAL	X	141	21.139	40.091	26.898	0.00	0.00
ATOM	2188	C	VAL	X	141	25.267	38.542	28.596	0.00	0.00
ATOM	2189	O	VAL	X	141	25.257	38.356	29.802	0.00	0.00
ATOM	2190	N	LEU	X	142	26.346	39.157	28.072	0.00	0.00
ATOM	2191	H	LEU	X	142	26.416	39.308	27.076	0.00	0.00
ATOM	2192	CA	LEU	X	142	27.565	39.382	28.888	0.00	0.00
ATOM	2193	HA	LEU	X	142	27.324	39.500	29.945	0.00	0.00
ATOM	2194	CB	LEU	X	142	28.477	38.163	28.654	0.00	0.00
ATOM	2195	HB2	LEU	X	142	27.946	37.247	28.912	0.00	0.00

ATOM	2196	HB3	LEU	X	142	28.686	38.002	27.597	0.00	0.00
ATOM	2197	CG	LEU	X	142	29.800	38.236	29.419	0.00	0.00
ATOM	2198	HG	LEU	X	142	29.588	38.646	30.406	0.00	0.00
ATOM	2199	CD1	LEU	X	142	30.391	36.845	29.677	0.00	0.00
ATOM	2200	HD11	LEU	X	142	31.405	36.980	30.055	0.00	0.00
ATOM	2201	HD12	LEU	X	142	30.415	36.272	28.751	0.00	0.00
ATOM	2202	HD13	LEU	X	142	29.863	36.248	30.420	0.00	0.00
ATOM	2203	CD2	LEU	X	142	30.914	39.069	28.790	0.00	0.00
ATOM	2204	HD21	LEU	X	142	31.296	38.740	27.823	0.00	0.00
ATOM	2205	HD22	LEU	X	142	30.604	40.114	28.797	0.00	0.00
ATOM	2206	HD23	LEU	X	142	31.795	39.060	29.431	0.00	0.00
ATOM	2207	C	LEU	X	142	28.165	40.769	28.549	0.00	0.00
ATOM	2208	O	LEU	X	142	28.533	41.068	27.397	0.00	0.00
ATOM	2209	N	VAL	X	143	28.477	41.533	29.537	0.00	0.00
ATOM	2210	H	VAL	X	143	28.196	41.076	30.393	0.00	0.00
ATOM	2211	CA	VAL	X	143	29.060	42.865	29.563	0.00	0.00
ATOM	2212	HA	VAL	X	143	29.062	43.205	28.527	0.00	0.00
ATOM	2213	CB	VAL	X	143	28.192	43.783	30.457	0.00	0.00
ATOM	2214	HB	VAL	X	143	28.238	43.393	31.474	0.00	0.00
ATOM	2215	CG1	VAL	X	143	28.770	45.232	30.420	0.00	0.00
ATOM	2216	HG11	VAL	X	143	28.885	45.536	29.380	0.00	0.00
ATOM	2217	HG12	VAL	X	143	28.221	45.985	30.986	0.00	0.00
ATOM	2218	HG13	VAL	X	143	29.790	45.166	30.798	0.00	0.00
ATOM	2219	CG2	VAL	X	143	26.717	43.878	30.053	0.00	0.00
ATOM	2220	HG21	VAL	X	143	26.147	42.950	30.023	0.00	0.00
ATOM	2221	HG22	VAL	X	143	26.569	44.528	29.191	0.00	0.00
ATOM	2222	HG23	VAL	X	143	26.360	44.618	30.770	0.00	0.00
ATOM	2223	C	VAL	X	143	30.445	42.735	30.022	0.00	0.00
ATOM	2224	O	VAL	X	143	30.791	41.904	30.880	0.00	0.00
ATOM	2225	N	SER	X	144	31.269	43.675	29.490	0.00	0.00
ATOM	2226	H	SER	X	144	30.886	44.323	28.816	0.00	0.00
ATOM	2227	CA	SER	X	144	32.639	43.900	29.977	0.00	0.00
ATOM	2228	HA	SER	X	144	32.644	43.615	31.029	0.00	0.00
ATOM	2229	CB	SER	X	144	33.610	42.987	29.199	0.00	0.00
ATOM	2230	HB2	SER	X	144	33.212	41.980	29.071	0.00	0.00
ATOM	2231	HB3	SER	X	144	33.703	43.427	28.207	0.00	0.00
ATOM	2232	OG	SER	X	144	34.847	42.902	29.834	0.00	0.00
ATOM	2233	HG	SER	X	144	35.361	42.229	29.382	0.00	0.00
ATOM	2234	C	SER	X	144	32.996	45.355	29.910	0.00	0.00
ATOM	2235	O	SER	X	144	32.342	46.093	29.124	0.00	0.00
ATOM	2236	N	MET	X	145	34.042	45.725	30.599	0.00	0.00
ATOM	2237	H	MET	X	145	34.556	45.067	31.167	0.00	0.00
ATOM	2238	CA	MET	X	145	34.398	47.115	30.743	0.00	0.00
ATOM	2239	HA	MET	X	145	33.851	47.636	29.957	0.00	0.00
ATOM	2240	CB	MET	X	145	33.824	47.657	32.046	0.00	0.00
ATOM	2241	HB2	MET	X	145	34.189	48.676	32.179	0.00	0.00
ATOM	2242	HB3	MET	X	145	32.735	47.688	32.077	0.00	0.00
ATOM	2243	CG	MET	X	145	34.294	46.948	33.297	0.00	0.00
ATOM	2244	HG2	MET	X	145	33.964	45.910	33.323	0.00	0.00
ATOM	2245	HG3	MET	X	145	35.378	46.912	33.184	0.00	0.00
ATOM	2246	SD	MET	X	145	33.916	47.597	34.956	0.00	0.00
ATOM	2247	CE	MET	X	145	32.181	47.046	35.219	0.00	0.00
ATOM	2248	HE1	MET	X	145	31.538	47.066	34.339	0.00	0.00
ATOM	2249	HE2	MET	X	145	32.250	45.983	35.451	0.00	0.00
ATOM	2250	HE3	MET	X	145	31.793	47.640	36.047	0.00	0.00
ATOM	2251	C	MET	X	145	35.887	47.334	30.621	0.00	0.00
ATOM	2252	O	MET	X	145	36.613	46.364	30.526	0.00	0.00
ATOM	2253	N	ASN	X	146	36.269	48.629	30.525	0.00	0.00
ATOM	2254	H	ASN	X	146	35.599	49.383	30.498	0.00	0.00
ATOM	2255	CA	ASN	X	146	37.591	49.048	30.598	0.00	0.00
ATOM	2256	HA	ASN	X	146	38.199	48.243	31.011	0.00	0.00
ATOM	2257	CB	ASN	X	146	38.027	49.087	29.124	0.00	0.00
ATOM	2258	HB2	ASN	X	146	37.635	48.305	28.474	0.00	0.00
ATOM	2259	HB3	ASN	X	146	37.730	50.043	28.693	0.00	0.00
ATOM	2260	CG	ASN	X	146	39.594	48.909	29.133	0.00	0.00
ATOM	2261	OD1	ASN	X	146	40.116	47.790	29.071	0.00	0.00
ATOM	2262	ND2	ASN	X	146	40.280	50.005	28.995	0.00	0.00

ATOM	2263	HD21	ASN	X	146	41.246	49.873	28.733	0.00	0.00
ATOM	2264	HD22	ASN	X	146	39.804	50.891	28.908	0.00	0.00
ATOM	2265	C	ASN	X	146	37.787	50.291	31.430	0.00	0.00
ATOM	2266	O	ASN	X	146	36.980	51.193	31.262	0.00	0.00
ATOM	2267	N	TYR	X	147	38.791	50.338	32.308	0.00	0.00
ATOM	2268	H	TYR	X	147	39.570	49.714	32.157	0.00	0.00
ATOM	2269	CA	TYR	X	147	38.913	51.349	33.375	0.00	0.00
ATOM	2270	HA	TYR	X	147	38.662	52.368	33.082	0.00	0.00
ATOM	2271	CB	TYR	X	147	38.031	50.910	34.574	0.00	0.00
ATOM	2272	HB2	TYR	X	147	38.184	51.683	35.328	0.00	0.00
ATOM	2273	HB3	TYR	X	147	36.996	51.005	34.248	0.00	0.00
ATOM	2274	CG	TYR	X	147	38.299	49.502	35.100	0.00	0.00
ATOM	2275	CD1	TYR	X	147	37.519	48.480	34.572	0.00	0.00
ATOM	2276	HD1	TYR	X	147	36.659	48.710	33.961	0.00	0.00
ATOM	2277	CE1	TYR	X	147	37.755	47.125	34.913	0.00	0.00
ATOM	2278	HE1	TYR	X	147	37.150	46.304	34.558	0.00	0.00
ATOM	2279	CZ	TYR	X	147	38.906	46.793	35.691	0.00	0.00
ATOM	2280	OH	TYR	X	147	39.111	45.505	36.038	0.00	0.00
ATOM	2281	HH	TYR	X	147	39.901	45.366	36.566	0.00	0.00
ATOM	2282	CE2	TYR	X	147	39.760	47.876	36.121	0.00	0.00
ATOM	2283	HE2	TYR	X	147	40.670	47.692	36.674	0.00	0.00
ATOM	2284	CD2	TYR	X	147	39.471	49.225	35.818	0.00	0.00
ATOM	2285	HD2	TYR	X	147	40.176	49.974	36.145	0.00	0.00
ATOM	2286	C	TYR	X	147	40.376	51.551	33.842	0.00	0.00
ATOM	2287	O	TYR	X	147	41.300	50.764	33.567	0.00	0.00
ATOM	2288	N	ARG	X	148	40.571	52.706	34.521	0.00	0.00
ATOM	2289	H	ARG	X	148	39.806	53.245	34.902	0.00	0.00
ATOM	2290	CA	ARG	X	148	41.865	53.233	34.896	0.00	0.00
ATOM	2291	HA	ARG	X	148	42.560	53.290	34.058	0.00	0.00
ATOM	2292	CB	ARG	X	148	41.785	54.643	35.468	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.199	54.648	36.387	0.00	0.00
ATOM	2294	HB3	ARG	X	148	42.801	54.959	35.705	0.00	0.00
ATOM	2295	CG	ARG	X	148	41.239	55.622	34.389	0.00	0.00
ATOM	2296	HG2	ARG	X	148	41.983	55.751	33.603	0.00	0.00
ATOM	2297	HG3	ARG	X	148	40.434	55.169	33.811	0.00	0.00
ATOM	2298	CD	ARG	X	148	40.941	57.000	35.037	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.849	57.296	35.564	0.00	0.00
ATOM	2300	HD3	ARG	X	148	40.763	57.649	34.180	0.00	0.00
ATOM	2301	NE	ARG	X	148	39.684	56.941	35.851	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.013	56.230	35.594	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.247	57.980	36.599	0.00	0.00
ATOM	2304	NH1	ARG	X	148	40.008	59.007	36.904	0.00	0.00
ATOM	2305	HH11	ARG	X	148	41.014	58.942	36.833	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.623	59.836	37.335	0.00	0.00
ATOM	2307	NH2	ARG	X	148	37.973	58.167	36.831	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.292	57.490	36.516	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.689	59.045	37.240	0.00	0.00
ATOM	2310	C	ARG	X	148	42.593	52.455	36.007	0.00	0.00
ATOM	2311	O	ARG	X	148	42.655	52.806	37.245	0.00	0.00
ATOM	2312	N	VAL	X	149	43.182	51.370	35.504	0.00	0.00
ATOM	2313	H	VAL	X	149	42.817	51.000	34.638	0.00	0.00
ATOM	2314	CA	VAL	X	149	44.358	50.801	36.207	0.00	0.00
ATOM	2315	HA	VAL	X	149	44.077	50.421	37.189	0.00	0.00
ATOM	2316	CB	VAL	X	149	44.837	49.561	35.410	0.00	0.00
ATOM	2317	HB	VAL	X	149	45.693	49.125	35.925	0.00	0.00
ATOM	2318	CG1	VAL	X	149	43.773	48.497	35.473	0.00	0.00
ATOM	2319	HG11	VAL	X	149	43.620	48.108	36.480	0.00	0.00
ATOM	2320	HG12	VAL	X	149	42.778	48.703	35.079	0.00	0.00
ATOM	2321	HG13	VAL	X	149	44.106	47.646	34.879	0.00	0.00
ATOM	2322	CG2	VAL	X	149	45.093	49.909	33.931	0.00	0.00
ATOM	2323	HG21	VAL	X	149	45.978	50.529	33.787	0.00	0.00
ATOM	2324	HG22	VAL	X	149	44.198	50.302	33.448	0.00	0.00
ATOM	2325	HG23	VAL	X	149	45.396	48.988	33.432	0.00	0.00
ATOM	2326	C	VAL	X	149	45.470	51.914	36.346	0.00	0.00
ATOM	2327	O	VAL	X	149	45.401	53.040	35.802	0.00	0.00
ATOM	2328	N	GLY	X	150	46.444	51.567	37.143	0.00	0.00
ATOM	2329	H	GLY	X	150	46.239	50.779	37.740	0.00	0.00

ATOM	2330	CA	GLY	X	150	47.550	52.520	37.420	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.461	52.145	37.888	0.00	0.00
ATOM	2332	HA3	GLY	X	150	47.863	52.955	36.471	0.00	0.00
ATOM	2333	C	GLY	X	150	47.269	53.697	38.311	0.00	0.00
ATOM	2334	O	GLY	X	150	46.217	53.821	38.928	0.00	0.00
ATOM	2335	N	ALA	X	151	48.251	54.623	38.389	0.00	0.00
ATOM	2336	H	ALA	X	151	49.022	54.526	37.745	0.00	0.00
ATOM	2337	CA	ALA	X	151	48.178	55.901	39.195	0.00	0.00
ATOM	2338	HA	ALA	X	151	48.131	55.484	40.201	0.00	0.00
ATOM	2339	CB	ALA	X	151	49.510	56.717	39.015	0.00	0.00
ATOM	2340	HB1	ALA	X	151	49.450	57.761	39.325	0.00	0.00
ATOM	2341	HB2	ALA	X	151	49.854	56.885	37.994	0.00	0.00
ATOM	2342	HB3	ALA	X	151	50.306	56.371	39.674	0.00	0.00
ATOM	2343	C	ALA	X	151	46.940	56.732	38.760	0.00	0.00
ATOM	2344	O	ALA	X	151	46.436	57.430	39.631	0.00	0.00
ATOM	2345	N	PHE	X	152	46.464	56.639	37.505	0.00	0.00
ATOM	2346	H	PHE	X	152	46.908	55.965	36.898	0.00	0.00
ATOM	2347	CA	PHE	X	152	45.286	57.386	36.970	0.00	0.00
ATOM	2348	HA	PHE	X	152	45.555	58.441	36.936	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.086	56.905	35.513	0.00	0.00
ATOM	2350	HB2	PHE	X	152	44.808	55.851	35.483	0.00	0.00
ATOM	2351	HB3	PHE	X	152	44.308	57.468	34.998	0.00	0.00
ATOM	2352	CG	PHE	X	152	46.374	57.066	34.697	0.00	0.00
ATOM	2353	CD1	PHE	X	152	47.265	56.077	34.613	0.00	0.00
ATOM	2354	HD1	PHE	X	152	47.077	55.207	35.224	0.00	0.00
ATOM	2355	CE1	PHE	X	152	48.402	56.173	33.835	0.00	0.00
ATOM	2356	HE1	PHE	X	152	49.061	55.319	33.896	0.00	0.00
ATOM	2357	CZ	PHE	X	152	48.704	57.283	33.034	0.00	0.00
ATOM	2358	HZ	PHE	X	152	49.654	57.358	32.525	0.00	0.00
ATOM	2359	CE2	PHE	X	152	47.816	58.352	33.188	0.00	0.00
ATOM	2360	HE2	PHE	X	152	48.033	59.294	32.705	0.00	0.00
ATOM	2361	CD2	PHE	X	152	46.692	58.259	34.023	0.00	0.00
ATOM	2362	HD2	PHE	X	152	46.007	59.087	34.130	0.00	0.00
ATOM	2363	C	PHE	X	152	43.969	57.271	37.766	0.00	0.00
ATOM	2364	O	PHE	X	152	43.072	58.118	37.668	0.00	0.00
ATOM	2365	N	GLY	X	153	43.887	56.073	38.333	0.00	0.00
ATOM	2366	H	GLY	X	153	44.648	55.410	38.309	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.698	55.647	39.021	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.903	56.381	38.887	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.445	54.646	38.671	0.00	0.00
ATOM	2370	C	GLY	X	153	43.045	55.618	40.543	0.00	0.00
ATOM	2371	O	GLY	X	153	42.087	55.747	41.312	0.00	0.00
ATOM	2372	N	PHE	X	154	44.261	55.242	40.914	0.00	0.00
ATOM	2373	H	PHE	X	154	44.923	55.133	40.159	0.00	0.00
ATOM	2374	CA	PHE	X	154	44.644	54.830	42.286	0.00	0.00
ATOM	2375	HA	PHE	X	154	43.760	54.839	42.924	0.00	0.00
ATOM	2376	CB	PHE	X	154	45.015	53.360	42.285	0.00	0.00
ATOM	2377	HB2	PHE	X	154	45.889	53.170	41.661	0.00	0.00
ATOM	2378	HB3	PHE	X	154	45.351	53.070	43.281	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.865	52.536	41.755	0.00	0.00
ATOM	2380	CD1	PHE	X	154	44.034	51.860	40.537	0.00	0.00
ATOM	2381	HD1	PHE	X	154	45.035	51.687	40.169	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.908	51.184	39.976	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.055	50.662	39.042	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.673	51.098	40.579	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.791	50.619	40.178	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.501	51.964	41.767	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.571	52.113	42.297	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.580	52.639	42.329	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.528	53.152	43.279	0.00	0.00
ATOM	2390	C	PHE	X	154	45.464	55.733	43.136	0.00	0.00
ATOM	2391	O	PHE	X	154	45.670	55.376	44.309	0.00	0.00
ATOM	2392	N	LEU	X	155	46.078	56.805	42.600	0.00	0.00
ATOM	2393	H	LEU	X	155	45.839	57.086	41.660	0.00	0.00
ATOM	2394	CA	LEU	X	155	47.011	57.681	43.368	0.00	0.00
ATOM	2395	HA	LEU	X	155	47.609	57.037	44.013	0.00	0.00
ATOM	2396	CB	LEU	X	155	47.922	58.412	42.384	0.00	0.00

ATOM	2397	HB2	LEU	X	155	48.494	57.535	42.081	0.00	0.00
ATOM	2398	HB3	LEU	X	155	47.434	58.956	41.576	0.00	0.00
ATOM	2399	CG	LEU	X	155	48.869	59.338	43.035	0.00	0.00
ATOM	2400	HG	LEU	X	155	49.248	58.963	43.986	0.00	0.00
ATOM	2401	CD1	LEU	X	155	50.028	59.471	42.057	0.00	0.00
ATOM	2402	HD11	LEU	X	155	50.474	58.526	41.745	0.00	0.00
ATOM	2403	HD12	LEU	X	155	50.830	60.097	42.449	0.00	0.00
ATOM	2404	HD13	LEU	X	155	49.737	60.006	41.153	0.00	0.00
ATOM	2405	CD2	LEU	X	155	48.455	60.772	43.442	0.00	0.00
ATOM	2406	HD21	LEU	X	155	47.954	61.186	42.567	0.00	0.00
ATOM	2407	HD22	LEU	X	155	47.941	60.728	44.402	0.00	0.00
ATOM	2408	HD23	LEU	X	155	49.383	61.338	43.526	0.00	0.00
ATOM	2409	C	LEU	X	155	46.220	58.605	44.271	0.00	0.00
ATOM	2410	O	LEU	X	155	45.365	59.330	43.802	0.00	0.00
ATOM	2411	N	ALA	X	156	46.631	58.710	45.538	0.00	0.00
ATOM	2412	H	ALA	X	156	47.272	57.975	45.800	0.00	0.00
ATOM	2413	CA	ALA	X	156	46.163	59.521	46.596	0.00	0.00
ATOM	2414	HA	ALA	X	156	45.351	60.111	46.171	0.00	0.00
ATOM	2415	CB	ALA	X	156	45.480	58.664	47.701	0.00	0.00
ATOM	2416	HB1	ALA	X	156	46.272	58.210	48.296	0.00	0.00
ATOM	2417	HB2	ALA	X	156	44.820	57.923	47.249	0.00	0.00
ATOM	2418	HB3	ALA	X	156	44.956	59.331	48.386	0.00	0.00
ATOM	2419	C	ALA	X	156	47.188	60.368	47.235	0.00	0.00
ATOM	2420	O	ALA	X	156	48.108	59.925	47.901	0.00	0.00
ATOM	2421	N	LEU	X	157	46.978	61.714	47.233	0.00	0.00
ATOM	2422	H	LEU	X	157	46.161	62.072	46.760	0.00	0.00
ATOM	2423	CA	LEU	X	157	47.781	62.745	47.854	0.00	0.00
ATOM	2424	HA	LEU	X	157	48.577	62.225	48.386	0.00	0.00
ATOM	2425	CB	LEU	X	157	48.590	63.516	46.714	0.00	0.00
ATOM	2426	HB2	LEU	X	157	49.198	62.722	46.281	0.00	0.00
ATOM	2427	HB3	LEU	X	157	47.872	63.928	46.004	0.00	0.00
ATOM	2428	CG	LEU	X	157	49.443	64.631	47.249	0.00	0.00
ATOM	2429	HG	LEU	X	157	49.174	64.922	48.264	0.00	0.00
ATOM	2430	CD1	LEU	X	157	50.920	64.317	47.395	0.00	0.00
ATOM	2431	HD11	LEU	X	157	51.556	65.104	47.799	0.00	0.00
ATOM	2432	HD12	LEU	X	157	51.489	64.023	46.513	0.00	0.00
ATOM	2433	HD13	LEU	X	157	51.011	63.482	48.091	0.00	0.00
ATOM	2434	CD2	LEU	X	157	49.341	65.839	46.419	0.00	0.00
ATOM	2435	HD21	LEU	X	157	49.705	66.629	47.076	0.00	0.00
ATOM	2436	HD22	LEU	X	157	49.922	65.780	45.498	0.00	0.00
ATOM	2437	HD23	LEU	X	157	48.322	66.034	46.085	0.00	0.00
ATOM	2438	C	LEU	X	157	46.971	63.571	48.889	0.00	0.00
ATOM	2439	O	LEU	X	157	46.694	64.725	48.548	0.00	0.00
ATOM	2440	N	PRO	X	158	46.721	62.979	50.072	0.00	0.00
ATOM	2441	CD	PRO	X	158	46.935	61.658	50.519	0.00	0.00
ATOM	2442	HD2	PRO	X	158	48.007	61.470	50.453	0.00	0.00
ATOM	2443	HD3	PRO	X	158	46.474	60.904	49.882	0.00	0.00
ATOM	2444	CG	PRO	X	158	46.644	61.563	52.005	0.00	0.00
ATOM	2445	HG2	PRO	X	158	47.370	60.954	52.543	0.00	0.00
ATOM	2446	HG3	PRO	X	158	45.683	61.059	52.107	0.00	0.00
ATOM	2447	CB	PRO	X	158	46.553	63.048	52.461	0.00	0.00
ATOM	2448	HB2	PRO	X	158	47.546	63.277	52.848	0.00	0.00
ATOM	2449	HB3	PRO	X	158	45.764	63.148	53.205	0.00	0.00
ATOM	2450	CA	PRO	X	158	46.206	63.802	51.125	0.00	0.00
ATOM	2451	HA	PRO	X	158	45.126	63.846	50.989	0.00	0.00
ATOM	2452	C	PRO	X	158	46.793	65.222	51.233	0.00	0.00
ATOM	2453	O	PRO	X	158	47.927	65.553	50.966	0.00	0.00
ATOM	2454	N	GLY	X	159	45.958	66.180	51.579	0.00	0.00
ATOM	2455	H	GLY	X	159	45.007	65.963	51.841	0.00	0.00
ATOM	2456	CA	GLY	X	159	46.339	67.587	51.676	0.00	0.00
ATOM	2457	HA2	GLY	X	159	45.831	68.003	52.545	0.00	0.00
ATOM	2458	HA3	GLY	X	159	47.419	67.662	51.804	0.00	0.00
ATOM	2459	C	GLY	X	159	45.985	68.362	50.394	0.00	0.00
ATOM	2460	O	GLY	X	159	45.701	69.555	50.375	0.00	0.00
ATOM	2461	N	SER	X	160	45.793	67.621	49.302	0.00	0.00
ATOM	2462	H	SER	X	160	46.136	66.682	49.444	0.00	0.00
ATOM	2463	CA	SER	X	160	44.819	67.914	48.204	0.00	0.00

ATOM	2464	HA	SER	X	160	44.598	68.979	48.265	0.00	0.00
ATOM	2465	CB	SER	X	160	45.453	67.659	46.817	0.00	0.00
ATOM	2466	HB2	SER	X	160	44.950	68.200	46.016	0.00	0.00
ATOM	2467	HB3	SER	X	160	46.431	68.141	46.818	0.00	0.00
ATOM	2468	OG	SER	X	160	45.458	66.363	46.309	0.00	0.00
ATOM	2469	HG	SER	X	160	46.101	65.997	46.921	0.00	0.00
ATOM	2470	C	SER	X	160	43.574	67.052	48.164	0.00	0.00
ATOM	2471	O	SER	X	160	43.611	66.098	48.932	0.00	0.00
ATOM	2472	N	ARG	X	161	42.544	67.499	47.458	0.00	0.00
ATOM	2473	H	ARG	X	161	42.662	68.475	47.224	0.00	0.00
ATOM	2474	CA	ARG	X	161	41.327	66.777	47.017	0.00	0.00
ATOM	2475	HA	ARG	X	161	41.350	65.757	47.402	0.00	0.00
ATOM	2476	CB	ARG	X	161	40.093	67.603	47.505	0.00	0.00
ATOM	2477	HB2	ARG	X	161	40.251	68.661	47.715	0.00	0.00
ATOM	2478	HB3	ARG	X	161	39.270	67.649	46.791	0.00	0.00
ATOM	2479	CG	ARG	X	161	39.580	66.880	48.806	0.00	0.00
ATOM	2480	HG2	ARG	X	161	38.654	67.251	49.245	0.00	0.00
ATOM	2481	HG3	ARG	X	161	39.442	65.820	48.592	0.00	0.00
ATOM	2482	CD	ARG	X	161	40.576	67.020	50.011	0.00	0.00
ATOM	2483	HD2	ARG	X	161	40.239	66.515	50.916	0.00	0.00
ATOM	2484	HD3	ARG	X	161	41.515	66.576	49.679	0.00	0.00
ATOM	2485	NE	ARG	X	161	40.936	68.409	50.358	0.00	0.00
ATOM	2486	HE	ARG	X	161	40.142	68.973	50.090	0.00	0.00
ATOM	2487	CZ	ARG	X	161	41.933	68.868	51.088	0.00	0.00
ATOM	2488	NH1	ARG	X	161	42.879	68.064	51.547	0.00	0.00
ATOM	2489	HH11	ARG	X	161	42.743	67.072	51.679	0.00	0.00
ATOM	2490	HH12	ARG	X	161	43.570	68.444	52.178	0.00	0.00
ATOM	2491	NH2	ARG	X	161	41.980	70.151	51.395	0.00	0.00
ATOM	2492	HH21	ARG	X	161	41.221	70.735	51.074	0.00	0.00
ATOM	2493	HH22	ARG	X	161	42.743	70.468	51.976	0.00	0.00
ATOM	2494	C	ARG	X	161	41.316	66.682	45.531	0.00	0.00
ATOM	2495	O	ARG	X	161	40.327	66.301	44.930	0.00	0.00
ATOM	2496	N	GLU	X	162	42.403	67.054	44.783	0.00	0.00
ATOM	2497	H	GLU	X	162	43.301	67.201	45.222	0.00	0.00
ATOM	2498	CA	GLU	X	162	42.460	66.809	43.334	0.00	0.00
ATOM	2499	HA	GLU	X	162	41.476	66.820	42.864	0.00	0.00
ATOM	2500	CB	GLU	X	162	43.281	68.064	42.729	0.00	0.00
ATOM	2501	HB2	GLU	X	162	44.236	68.240	43.224	0.00	0.00
ATOM	2502	HB3	GLU	X	162	43.534	67.756	41.715	0.00	0.00
ATOM	2503	CG	GLU	X	162	42.493	69.419	42.697	0.00	0.00
ATOM	2504	HG2	GLU	X	162	42.481	69.766	43.730	0.00	0.00
ATOM	2505	HG3	GLU	X	162	43.055	70.143	42.105	0.00	0.00
ATOM	2506	CD	GLU	X	162	41.127	69.307	42.042	0.00	0.00
ATOM	2507	OE1	GLU	X	162	41.052	69.144	40.845	0.00	0.00
ATOM	2508	OE2	GLU	X	162	40.157	69.440	42.845	0.00	0.00
ATOM	2509	C	GLU	X	162	43.045	65.440	43.038	0.00	0.00
ATOM	2510	O	GLU	X	162	42.977	65.108	41.865	0.00	0.00
ATOM	2511	N	ALA	X	163	43.502	64.629	44.052	0.00	0.00
ATOM	2512	H	ALA	X	163	43.622	65.036	44.969	0.00	0.00
ATOM	2513	CA	ALA	X	163	43.886	63.229	43.866	0.00	0.00
ATOM	2514	HA	ALA	X	163	43.246	62.915	43.041	0.00	0.00
ATOM	2515	CB	ALA	X	163	45.332	63.165	43.346	0.00	0.00
ATOM	2516	HB1	ALA	X	163	45.441	63.700	42.403	0.00	0.00
ATOM	2517	HB2	ALA	X	163	45.598	62.113	43.249	0.00	0.00
ATOM	2518	HB3	ALA	X	163	46.084	63.556	44.032	0.00	0.00
ATOM	2519	C	ALA	X	163	43.700	62.564	45.156	0.00	0.00
ATOM	2520	O	ALA	X	163	44.617	62.435	45.928	0.00	0.00
ATOM	2521	N	PRO	X	164	42.510	62.048	45.511	0.00	0.00
ATOM	2522	CD	PRO	X	164	41.230	62.252	44.816	0.00	0.00
ATOM	2523	HD2	PRO	X	164	41.047	61.622	43.946	0.00	0.00
ATOM	2524	HD3	PRO	X	164	41.113	63.311	44.582	0.00	0.00
ATOM	2525	CG	PRO	X	164	40.066	61.929	45.708	0.00	0.00
ATOM	2526	HG2	PRO	X	164	39.696	60.964	45.363	0.00	0.00
ATOM	2527	HG3	PRO	X	164	39.270	62.670	45.783	0.00	0.00
ATOM	2528	CB	PRO	X	164	40.804	61.691	47.040	0.00	0.00
ATOM	2529	HB2	PRO	X	164	40.288	60.912	47.602	0.00	0.00
ATOM	2530	HB3	PRO	X	164	40.801	62.565	47.692	0.00	0.00

ATOM	2531	CA	PRO	X	164	42.193	61.232	46.698	0.00	0.00
ATOM	2532	HA	PRO	X	164	42.802	61.545	47.547	0.00	0.00
ATOM	2533	C	PRO	X	164	42.299	59.715	46.420	0.00	0.00
ATOM	2534	O	PRO	X	164	42.214	58.917	47.353	0.00	0.00
ATOM	2535	N	GLY	X	165	42.377	59.366	45.130	0.00	0.00
ATOM	2536	H	GLY	X	165	42.463	60.110	44.452	0.00	0.00
ATOM	2537	CA	GLY	X	165	42.650	58.043	44.666	0.00	0.00
ATOM	2538	HA2	GLY	X	165	43.083	58.032	43.666	0.00	0.00
ATOM	2539	HA3	GLY	X	165	43.292	57.474	45.339	0.00	0.00
ATOM	2540	C	GLY	X	165	41.398	57.275	44.477	0.00	0.00
ATOM	2541	O	GLY	X	165	40.414	57.875	44.095	0.00	0.00
ATOM	2542	N	ASN	X	166	41.400	55.958	44.649	0.00	0.00
ATOM	2543	H	ASN	X	166	42.268	55.474	44.828	0.00	0.00
ATOM	2544	CA	ASN	X	166	40.172	55.101	44.597	0.00	0.00
ATOM	2545	HA	ASN	X	166	40.554	54.080	44.603	0.00	0.00
ATOM	2546	CB	ASN	X	166	39.329	55.290	45.901	0.00	0.00
ATOM	2547	HB2	ASN	X	166	39.025	56.313	46.122	0.00	0.00
ATOM	2548	HB3	ASN	X	166	38.496	54.596	45.786	0.00	0.00
ATOM	2549	CG	ASN	X	166	40.146	54.884	47.089	0.00	0.00
ATOM	2550	OD1	ASN	X	166	40.643	53.818	47.174	0.00	0.00
ATOM	2551	ND2	ASN	X	166	40.270	55.753	48.146	0.00	0.00
ATOM	2552	HD21	ASN	X	166	40.614	55.491	49.059	0.00	0.00
ATOM	2553	HD22	ASN	X	166	39.896	56.674	47.967	0.00	0.00
ATOM	2554	C	ASN	X	166	39.292	55.173	43.259	0.00	0.00
ATOM	2555	O	ASN	X	166	38.642	54.149	43.001	0.00	0.00
ATOM	2556	N	VAL	X	167	39.345	56.200	42.443	0.00	0.00
ATOM	2557	H	VAL	X	167	39.863	57.003	42.768	0.00	0.00
ATOM	2558	CA	VAL	X	167	38.480	56.361	41.239	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.464	56.307	41.630	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.550	57.799	40.698	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.854	57.803	39.860	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.038	58.835	41.714	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.517	59.784	41.474	0.00	0.00
ATOM	2564	HG12	VAL	X	167	36.958	58.799	41.857	0.00	0.00
ATOM	2565	HG13	VAL	X	167	38.418	58.581	42.704	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.984	58.156	40.164	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.760	57.773	40.826	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.099	59.223	39.975	0.00	0.00
ATOM	2569	HG23	VAL	X	167	40.117	57.606	39.232	0.00	0.00
ATOM	2570	C	VAL	X	167	38.558	55.392	40.059	0.00	0.00
ATOM	2571	O	VAL	X	167	37.625	55.265	39.324	0.00	0.00
ATOM	2572	N	GLY	X	168	39.637	54.651	39.977	0.00	0.00
ATOM	2573	H	GLY	X	168	40.263	54.777	40.759	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.716	53.519	38.994	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.451	53.969	38.038	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.665	52.987	38.914	0.00	0.00
ATOM	2577	C	GLY	X	168	38.780	52.382	39.318	0.00	0.00
ATOM	2578	O	GLY	X	168	38.536	51.542	38.449	0.00	0.00
ATOM	2579	N	LEU	X	169	38.327	52.373	40.566	0.00	0.00
ATOM	2580	H	LEU	X	169	38.655	53.149	41.123	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.213	51.527	40.959	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.160	50.603	40.384	0.00	0.00
ATOM	2583	CB	LEU	X	169	37.399	51.080	42.410	0.00	0.00
ATOM	2584	HB2	LEU	X	169	38.378	50.611	42.505	0.00	0.00
ATOM	2585	HB3	LEU	X	169	37.252	51.970	43.022	0.00	0.00
ATOM	2586	CG	LEU	X	169	36.447	49.885	42.796	0.00	0.00
ATOM	2587	HG	LEU	X	169	35.476	50.127	42.364	0.00	0.00
ATOM	2588	CD1	LEU	X	169	36.920	48.581	42.156	0.00	0.00
ATOM	2589	HD11	LEU	X	169	37.912	48.293	42.505	0.00	0.00
ATOM	2590	HD12	LEU	X	169	37.020	48.695	41.077	0.00	0.00
ATOM	2591	HD13	LEU	X	169	36.217	47.790	42.417	0.00	0.00
ATOM	2592	CD2	LEU	X	169	36.335	49.626	44.258	0.00	0.00
ATOM	2593	HD21	LEU	X	169	35.503	48.969	44.509	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.296	49.277	44.636	0.00	0.00
ATOM	2595	HD23	LEU	X	169	36.148	50.586	44.740	0.00	0.00
ATOM	2596	C	LEU	X	169	35.845	52.245	40.676	0.00	0.00
ATOM	2597	O	LEU	X	169	34.817	51.615	40.389	0.00	0.00

ATOM	2598	N	LEU	X	170	35.735	53.581	40.814	0.00	0.00
ATOM	2599	H	LEU	X	170	36.552	54.064	41.158	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.488	54.309	40.659	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.736	53.641	41.078	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.608	55.630	41.500	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.393	56.245	41.060	0.00	0.00
ATOM	2604	HB3	LEU	X	170	33.711	56.242	41.406	0.00	0.00
ATOM	2605	CG	LEU	X	170	34.923	55.461	42.966	0.00	0.00
ATOM	2606	HG	LEU	X	170	35.867	54.935	43.103	0.00	0.00
ATOM	2607	CD1	LEU	X	170	35.160	56.775	43.629	0.00	0.00
ATOM	2608	HD11	LEU	X	170	35.719	56.631	44.554	0.00	0.00
ATOM	2609	HD12	LEU	X	170	34.152	57.167	43.766	0.00	0.00
ATOM	2610	HD13	LEU	X	170	35.786	57.482	43.084	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.778	54.768	43.649	0.00	0.00
ATOM	2612	HD21	LEU	X	170	33.753	54.837	44.737	0.00	0.00
ATOM	2613	HD22	LEU	X	170	32.908	55.352	43.348	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.737	53.724	43.337	0.00	0.00
ATOM	2615	C	LEU	X	170	34.147	54.532	39.228	0.00	0.00
ATOM	2616	O	LEU	X	170	33.104	55.042	38.919	0.00	0.00
ATOM	2617	N	ASP	X	171	35.077	54.193	38.287	0.00	0.00
ATOM	2618	H	ASP	X	171	36.001	54.032	38.661	0.00	0.00
ATOM	2619	CA	ASP	X	171	34.871	53.871	36.842	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.422	54.716	36.320	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.212	53.527	36.129	0.00	0.00
ATOM	2622	HB2	ASP	X	171	36.556	52.680	36.722	0.00	0.00
ATOM	2623	HB3	ASP	X	171	35.991	53.222	35.106	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.265	54.630	36.047	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.908	55.838	36.092	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.432	54.229	35.819	0.00	0.00
ATOM	2627	C	ASP	X	171	33.948	52.669	36.752	0.00	0.00
ATOM	2628	O	ASP	X	171	33.027	52.711	35.918	0.00	0.00
ATOM	2629	N	GLN	X	172	34.181	51.642	37.515	0.00	0.00
ATOM	2630	H	GLN	X	172	34.856	51.730	38.261	0.00	0.00
ATOM	2631	CA	GLN	X	172	33.343	50.396	37.510	0.00	0.00
ATOM	2632	HA	GLN	X	172	33.306	50.030	36.484	0.00	0.00
ATOM	2633	CB	GLN	X	172	34.077	49.194	38.200	0.00	0.00
ATOM	2634	HB2	GLN	X	172	34.182	49.299	39.279	0.00	0.00
ATOM	2635	HB3	GLN	X	172	33.522	48.260	38.110	0.00	0.00
ATOM	2636	CG	GLN	X	172	35.509	49.175	37.652	0.00	0.00
ATOM	2637	HG2	GLN	X	172	35.563	49.058	36.570	0.00	0.00
ATOM	2638	HG3	GLN	X	172	36.160	50.021	37.872	0.00	0.00
ATOM	2639	CD	GLN	X	172	36.235	47.967	38.290	0.00	0.00
ATOM	2640	OE1	GLN	X	172	35.626	47.174	39.033	0.00	0.00
ATOM	2641	NE2	GLN	X	172	37.587	48.028	38.302	0.00	0.00
ATOM	2642	HE21	GLN	X	172	38.043	47.492	39.027	0.00	0.00
ATOM	2643	HE22	GLN	X	172	38.014	48.590	37.579	0.00	0.00
ATOM	2644	C	GLN	X	172	31.945	50.638	38.059	0.00	0.00
ATOM	2645	O	GLN	X	172	31.005	50.206	37.449	0.00	0.00
ATOM	2646	N	ARG	X	173	31.870	51.459	39.116	0.00	0.00
ATOM	2647	H	ARG	X	173	32.750	51.846	39.424	0.00	0.00
ATOM	2648	CA	ARG	X	173	30.570	51.982	39.640	0.00	0.00
ATOM	2649	HA	ARG	X	173	29.991	51.074	39.812	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.825	52.745	40.871	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.602	52.273	41.474	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.329	53.697	40.707	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.484	52.961	41.627	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.815	53.421	40.900	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.017	51.992	41.804	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.757	53.708	42.976	0.00	0.00
ATOM	2657	HD2	ARG	X	173	30.329	54.617	42.791	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.777	54.005	43.349	0.00	0.00
ATOM	2659	NE	ARG	X	173	30.498	52.846	43.885	0.00	0.00
ATOM	2660	HE	ARG	X	173	30.423	51.850	43.733	0.00	0.00
ATOM	2661	CZ	ARG	X	173	31.015	53.240	45.026	0.00	0.00
ATOM	2662	NH1	ARG	X	173	31.030	54.466	45.501	0.00	0.00
ATOM	2663	HH11	ARG	X	173	30.828	55.215	44.853	0.00	0.00
ATOM	2664	HH12	ARG	X	173	31.290	54.629	46.463	0.00	0.00

ATOM	2665	NH2	ARG	X	173	31.413	52.281	45.834	0.00	0.00
ATOM	2666	HH21	ARG	X	173	31.203	51.323	45.594	0.00	0.00
ATOM	2667	HH22	ARG	X	173	31.583	52.450	46.815	0.00	0.00
ATOM	2668	C	ARG	X	173	29.763	52.759	38.536	0.00	0.00
ATOM	2669	O	ARG	X	173	28.584	52.632	38.512	0.00	0.00
ATOM	2670	N	LEU	X	174	30.410	53.568	37.721	0.00	0.00
ATOM	2671	H	LEU	X	174	31.413	53.677	37.773	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.715	54.309	36.621	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.717	54.628	36.922	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.604	55.512	36.278	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.097	56.091	37.059	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.388	55.107	35.638	0.00	0.00
ATOM	2677	CG	LEU	X	174	29.775	56.597	35.498	0.00	0.00
ATOM	2678	HG	LEU	X	174	29.246	56.079	34.698	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.767	57.293	36.393	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.245	57.768	37.250	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.086	56.569	36.840	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.179	57.997	35.804	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.614	57.699	34.781	0.00	0.00
ATOM	2684	HD21	LEU	X	174	31.423	57.260	34.197	0.00	0.00
ATOM	2685	HD22	LEU	X	174	29.888	58.125	34.088	0.00	0.00
ATOM	2686	HD23	LEU	X	174	30.985	58.378	35.549	0.00	0.00
ATOM	2687	C	LEU	X	174	29.334	53.394	35.508	0.00	0.00
ATOM	2688	O	LEU	X	174	28.217	53.431	35.003	0.00	0.00
ATOM	2689	N	ALA	X	175	30.123	52.359	35.239	0.00	0.00
ATOM	2690	H	ALA	X	175	31.042	52.397	35.656	0.00	0.00
ATOM	2691	CA	ALA	X	175	29.734	51.288	34.299	0.00	0.00
ATOM	2692	HA	ALA	X	175	29.596	51.809	33.352	0.00	0.00
ATOM	2693	CB	ALA	X	175	30.976	50.444	34.031	0.00	0.00
ATOM	2694	HB1	ALA	X	175	31.832	51.014	33.670	0.00	0.00
ATOM	2695	HB2	ALA	X	175	30.638	49.628	33.393	0.00	0.00
ATOM	2696	HB3	ALA	X	175	31.137	49.966	34.997	0.00	0.00
ATOM	2697	C	ALA	X	175	28.507	50.462	34.739	0.00	0.00
ATOM	2698	O	ALA	X	175	27.577	50.214	33.990	0.00	0.00
ATOM	2699	N	LEU	X	176	28.404	50.257	36.076	0.00	0.00
ATOM	2700	H	LEU	X	176	29.229	50.390	36.643	0.00	0.00
ATOM	2701	CA	LEU	X	176	27.283	49.491	36.566	0.00	0.00
ATOM	2702	HA	LEU	X	176	27.070	48.654	35.901	0.00	0.00
ATOM	2703	CB	LEU	X	176	27.728	48.833	37.888	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.381	49.486	38.466	0.00	0.00
ATOM	2705	HB3	LEU	X	176	26.879	48.597	38.530	0.00	0.00
ATOM	2706	CG	LEU	X	176	28.440	47.509	37.672	0.00	0.00
ATOM	2707	HG	LEU	X	176	29.242	47.549	36.936	0.00	0.00
ATOM	2708	CD1	LEU	X	176	29.218	47.220	38.978	0.00	0.00
ATOM	2709	HD11	LEU	X	176	29.888	46.384	38.774	0.00	0.00
ATOM	2710	HD12	LEU	X	176	28.511	46.914	39.749	0.00	0.00
ATOM	2711	HD13	LEU	X	176	29.812	48.040	39.381	0.00	0.00
ATOM	2712	CD2	LEU	X	176	27.447	46.429	37.260	0.00	0.00
ATOM	2713	HD21	LEU	X	176	26.587	46.413	37.929	0.00	0.00
ATOM	2714	HD22	LEU	X	176	27.078	46.600	36.248	0.00	0.00
ATOM	2715	HD23	LEU	X	176	27.977	45.493	37.433	0.00	0.00
ATOM	2716	C	LEU	X	176	26.046	50.245	36.611	0.00	0.00
ATOM	2717	O	LEU	X	176	24.945	49.667	36.499	0.00	0.00
ATOM	2718	N	GLN	X	177	26.138	51.568	36.743	0.00	0.00
ATOM	2719	H	GLN	X	177	27.017	51.965	37.042	0.00	0.00
ATOM	2720	CA	GLN	X	177	25.073	52.570	36.578	0.00	0.00
ATOM	2721	HA	GLN	X	177	24.173	52.142	37.020	0.00	0.00
ATOM	2722	CB	GLN	X	177	25.513	53.881	37.248	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.442	54.342	36.914	0.00	0.00
ATOM	2724	HB3	GLN	X	177	24.736	54.577	36.930	0.00	0.00
ATOM	2725	CG	GLN	X	177	25.404	53.861	38.797	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.427	53.554	39.169	0.00	0.00
ATOM	2727	HG3	GLN	X	177	26.084	53.095	39.170	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.788	55.128	39.589	0.00	0.00
ATOM	2729	OE1	GLN	X	177	26.903	55.570	39.391	0.00	0.00
ATOM	2730	NE2	GLN	X	177	24.897	55.818	40.254	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.239	56.720	40.554	0.00	0.00

ATOM	2732	HE22	GLN	X	177	23.948	55.609	39.979	0.00	0.00
ATOM	2733	C	GLN	X	177	24.616	52.738	35.101	0.00	0.00
ATOM	2734	O	GLN	X	177	23.443	53.057	34.864	0.00	0.00
ATOM	2735	N	TRP	X	178	25.551	52.473	34.158	0.00	0.00
ATOM	2736	H	TRP	X	178	26.524	52.515	34.426	0.00	0.00
ATOM	2737	CA	TRP	X	178	25.205	52.464	32.709	0.00	0.00
ATOM	2738	HA	TRP	X	178	24.624	53.374	32.557	0.00	0.00
ATOM	2739	CB	TRP	X	178	26.544	52.653	31.916	0.00	0.00
ATOM	2740	HB2	TRP	X	178	27.117	53.403	32.462	0.00	0.00
ATOM	2741	HB3	TRP	X	178	27.143	51.751	31.796	0.00	0.00
ATOM	2742	CG	TRP	X	178	26.257	53.147	30.523	0.00	0.00
ATOM	2743	CD1	TRP	X	178	26.295	54.406	30.165	0.00	0.00
ATOM	2744	HD1	TRP	X	178	26.590	55.169	30.870	0.00	0.00
ATOM	2745	NE1	TRP	X	178	25.937	54.520	28.828	0.00	0.00
ATOM	2746	HE1	TRP	X	178	26.092	55.339	28.258	0.00	0.00
ATOM	2747	CE2	TRP	X	178	25.584	53.280	28.291	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	25.119	52.876	26.989	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	25.156	53.518	26.122	0.00	0.00
ATOM	2750	CH2	TRP	X	178	24.997	51.510	26.784	0.00	0.00
ATOM	2751	HH2	TRP	X	178	24.752	51.120	25.807	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	25.192	50.606	27.836	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	25.198	49.547	27.625	0.00	0.00
ATOM	2754	CE3	TRP	X	178	25.563	51.048	29.102	0.00	0.00
ATOM	2755	HE3	TRP	X	178	25.583	50.366	29.940	0.00	0.00
ATOM	2756	CD2	TRP	X	178	25.882	52.402	29.326	0.00	0.00
ATOM	2757	C	TRP	X	178	24.428	51.166	32.330	0.00	0.00
ATOM	2758	O	TRP	X	178	23.342	51.218	31.699	0.00	0.00
ATOM	2759	N	VAL	X	179	25.065	49.969	32.690	0.00	0.00
ATOM	2760	H	VAL	X	179	25.869	50.021	33.299	0.00	0.00
ATOM	2761	CA	VAL	X	179	24.393	48.645	32.636	0.00	0.00
ATOM	2762	HA	VAL	X	179	24.284	48.419	31.575	0.00	0.00
ATOM	2763	CB	VAL	X	179	25.276	47.590	33.241	0.00	0.00
ATOM	2764	HB	VAL	X	179	25.505	47.954	34.242	0.00	0.00
ATOM	2765	CG1	VAL	X	179	24.578	46.239	33.337	0.00	0.00
ATOM	2766	HG11	VAL	X	179	25.231	45.460	33.731	0.00	0.00
ATOM	2767	HG12	VAL	X	179	23.699	46.269	33.980	0.00	0.00
ATOM	2768	HG13	VAL	X	179	24.337	45.959	32.311	0.00	0.00
ATOM	2769	CG2	VAL	X	179	26.510	47.485	32.407	0.00	0.00
ATOM	2770	HG21	VAL	X	179	27.215	46.789	32.862	0.00	0.00
ATOM	2771	HG22	VAL	X	179	27.060	48.421	32.308	0.00	0.00
ATOM	2772	HG23	VAL	X	179	26.191	47.218	31.399	0.00	0.00
ATOM	2773	C	VAL	X	179	22.901	48.644	33.147	0.00	0.00
ATOM	2774	O	VAL	X	179	21.885	48.429	32.396	0.00	0.00
ATOM	2775	N	GLN	X	180	22.761	49.159	34.355	0.00	0.00
ATOM	2776	H	GLN	X	180	23.626	49.352	34.839	0.00	0.00
ATOM	2777	CA	GLN	X	180	21.471	49.295	34.969	0.00	0.00
ATOM	2778	HA	GLN	X	180	20.949	48.338	34.966	0.00	0.00
ATOM	2779	CB	GLN	X	180	21.703	49.704	36.498	0.00	0.00
ATOM	2780	HB2	GLN	X	180	22.528	50.396	36.669	0.00	0.00
ATOM	2781	HB3	GLN	X	180	20.782	50.179	36.835	0.00	0.00
ATOM	2782	CG	GLN	X	180	22.015	48.364	37.199	0.00	0.00
ATOM	2783	HG2	GLN	X	180	22.966	47.989	36.822	0.00	0.00
ATOM	2784	HG3	GLN	X	180	22.286	48.581	38.232	0.00	0.00
ATOM	2785	CD	GLN	X	180	20.821	47.346	37.228	0.00	0.00
ATOM	2786	OE1	GLN	X	180	19.657	47.601	36.826	0.00	0.00
ATOM	2787	NE2	GLN	X	180	21.082	46.192	37.670	0.00	0.00
ATOM	2788	HE21	GLN	X	180	20.455	45.403	37.612	0.00	0.00
ATOM	2789	HE22	GLN	X	180	22.009	46.092	38.059	0.00	0.00
ATOM	2790	C	GLN	X	180	20.467	50.176	34.186	0.00	0.00
ATOM	2791	O	GLN	X	180	19.347	49.709	34.026	0.00	0.00
ATOM	2792	N	GLU	X	181	20.902	51.315	33.791	0.00	0.00
ATOM	2793	H	GLU	X	181	21.871	51.478	34.021	0.00	0.00
ATOM	2794	CA	GLU	X	181	20.207	52.238	32.842	0.00	0.00
ATOM	2795	HA	GLU	X	181	19.257	52.563	33.265	0.00	0.00
ATOM	2796	CB	GLU	X	181	21.098	53.441	32.576	0.00	0.00
ATOM	2797	HB2	GLU	X	181	21.451	53.930	33.483	0.00	0.00
ATOM	2798	HB3	GLU	X	181	21.953	53.163	31.959	0.00	0.00

ATOM	2799	CG	GLU	X	181	20.277	54.516	31.808	0.00	0.00
ATOM	2800	HG2	GLU	X	181	21.020	55.266	31.537	0.00	0.00
ATOM	2801	HG3	GLU	X	181	19.973	54.069	30.861	0.00	0.00
ATOM	2802	CD	GLU	X	181	19.163	55.131	32.567	0.00	0.00
ATOM	2803	OE1	GLU	X	181	17.920	55.082	32.259	0.00	0.00
ATOM	2804	OE2	GLU	X	181	19.492	55.802	33.572	0.00	0.00
ATOM	2805	C	GLU	X	181	19.788	51.609	31.438	0.00	0.00
ATOM	2806	O	GLU	X	181	18.687	51.886	31.007	0.00	0.00
ATOM	2807	N	ASN	X	182	20.573	50.720	30.858	0.00	0.00
ATOM	2808	H	ASN	X	182	21.445	50.520	31.327	0.00	0.00
ATOM	2809	CA	ASN	X	182	20.602	50.456	29.416	0.00	0.00
ATOM	2810	HA	ASN	X	182	19.672	50.861	29.016	0.00	0.00
ATOM	2811	CB	ASN	X	182	21.738	51.126	28.689	0.00	0.00
ATOM	2812	HB2	ASN	X	182	22.678	50.723	29.066	0.00	0.00
ATOM	2813	HB3	ASN	X	182	21.545	50.839	27.655	0.00	0.00
ATOM	2814	CG	ASN	X	182	21.797	52.673	28.645	0.00	0.00
ATOM	2815	OD1	ASN	X	182	21.096	53.322	27.835	0.00	0.00
ATOM	2816	ND2	ASN	X	182	22.500	53.332	29.576	0.00	0.00
ATOM	2817	HD21	ASN	X	182	22.447	54.340	29.551	0.00	0.00
ATOM	2818	HD22	ASN	X	182	23.039	52.836	30.272	0.00	0.00
ATOM	2819	C	ASN	X	182	20.545	48.957	29.001	0.00	0.00
ATOM	2820	O	ASN	X	182	20.191	48.803	27.851	0.00	0.00
ATOM	2821	N	VAL	X	183	20.774	47.960	29.841	0.00	0.00
ATOM	2822	H	VAL	X	183	20.882	48.079	30.838	0.00	0.00
ATOM	2823	CA	VAL	X	183	21.135	46.670	29.319	0.00	0.00
ATOM	2824	HA	VAL	X	183	21.843	46.764	28.496	0.00	0.00
ATOM	2825	CB	VAL	X	183	21.896	45.784	30.345	0.00	0.00
ATOM	2826	HB	VAL	X	183	22.645	46.471	30.740	0.00	0.00
ATOM	2827	CG1	VAL	X	183	21.059	45.229	31.470	0.00	0.00
ATOM	2828	HG11	VAL	X	183	20.333	44.452	31.231	0.00	0.00
ATOM	2829	HG12	VAL	X	183	21.760	44.781	32.175	0.00	0.00
ATOM	2830	HG13	VAL	X	183	20.608	46.130	31.884	0.00	0.00
ATOM	2831	CG2	VAL	X	183	22.604	44.502	29.693	0.00	0.00
ATOM	2832	HG21	VAL	X	183	23.196	44.878	28.859	0.00	0.00
ATOM	2833	HG22	VAL	X	183	21.816	43.849	29.316	0.00	0.00
ATOM	2834	HG23	VAL	X	183	23.220	44.008	30.445	0.00	0.00
ATOM	2835	C	VAL	X	183	20.008	45.914	28.596	0.00	0.00
ATOM	2836	O	VAL	X	183	20.333	45.102	27.748	0.00	0.00
ATOM	2837	N	ALA	X	184	18.716	46.259	28.708	0.00	0.00
ATOM	2838	H	ALA	X	184	18.517	46.948	29.420	0.00	0.00
ATOM	2839	CA	ALA	X	184	17.601	45.652	27.918	0.00	0.00
ATOM	2840	HA	ALA	X	184	17.468	44.606	28.194	0.00	0.00
ATOM	2841	CB	ALA	X	184	16.350	46.379	28.403	0.00	0.00
ATOM	2842	HB1	ALA	X	184	15.640	46.465	27.580	0.00	0.00
ATOM	2843	HB2	ALA	X	184	16.512	47.440	28.591	0.00	0.00
ATOM	2844	HB3	ALA	X	184	15.955	45.860	29.276	0.00	0.00
ATOM	2845	C	ALA	X	184	17.756	45.813	26.384	0.00	0.00
ATOM	2846	O	ALA	X	184	17.323	44.867	25.728	0.00	0.00
ATOM	2847	N	ALA	X	185	18.345	46.841	25.869	0.00	0.00
ATOM	2848	H	ALA	X	185	18.716	47.540	26.496	0.00	0.00
ATOM	2849	CA	ALA	X	185	18.442	47.130	24.457	0.00	0.00
ATOM	2850	HA	ALA	X	185	17.480	47.101	23.944	0.00	0.00
ATOM	2851	CB	ALA	X	185	18.835	48.588	24.363	0.00	0.00
ATOM	2852	HB1	ALA	X	185	18.100	49.203	24.882	0.00	0.00
ATOM	2853	HB2	ALA	X	185	18.868	48.833	23.302	0.00	0.00
ATOM	2854	HB3	ALA	X	185	19.825	48.795	24.771	0.00	0.00
ATOM	2855	C	ALA	X	185	19.418	46.052	23.720	0.00	0.00
ATOM	2856	O	ALA	X	185	19.169	45.732	22.573	0.00	0.00
ATOM	2857	N	PHE	X	186	20.391	45.575	24.478	0.00	0.00
ATOM	2858	H	PHE	X	186	20.659	46.042	25.333	0.00	0.00
ATOM	2859	CA	PHE	X	186	21.190	44.368	24.183	0.00	0.00
ATOM	2860	HA	PHE	X	186	21.400	44.380	23.114	0.00	0.00
ATOM	2861	CB	PHE	X	186	22.539	44.389	24.947	0.00	0.00
ATOM	2862	HB2	PHE	X	186	22.370	44.176	26.003	0.00	0.00
ATOM	2863	HB3	PHE	X	186	23.189	43.615	24.539	0.00	0.00
ATOM	2864	CG	PHE	X	186	23.334	45.754	24.764	0.00	0.00
ATOM	2865	CD1	PHE	X	186	23.312	46.762	25.748	0.00	0.00

ATOM	2866	HD1	PHE	X	186	22.874	46.454	26.685	0.00	0.00
ATOM	2867	CE1	PHE	X	186	23.789	48.028	25.461	0.00	0.00
ATOM	2868	HE1	PHE	X	186	23.789	48.767	26.249	0.00	0.00
ATOM	2869	CZ	PHE	X	186	24.421	48.214	24.259	0.00	0.00
ATOM	2870	HZ	PHE	X	186	24.697	49.253	24.154	0.00	0.00
ATOM	2871	CE2	PHE	X	186	24.477	47.234	23.245	0.00	0.00
ATOM	2872	HE2	PHE	X	186	24.946	47.438	22.293	0.00	0.00
ATOM	2873	CD2	PHE	X	186	23.973	46.016	23.565	0.00	0.00
ATOM	2874	HD2	PHE	X	186	24.056	45.200	22.863	0.00	0.00
ATOM	2875	C	PHE	X	186	20.448	43.039	24.470	0.00	0.00
ATOM	2876	O	PHE	X	186	20.811	42.017	23.939	0.00	0.00
ATOM	2877	N	GLY	X	187	19.526	43.032	25.481	0.00	0.00
ATOM	2878	H	GLY	X	187	19.256	43.897	25.927	0.00	0.00
ATOM	2879	CA	GLY	X	187	18.702	41.867	25.639	0.00	0.00
ATOM	2880	HA2	GLY	X	187	17.655	42.102	25.449	0.00	0.00
ATOM	2881	HA3	GLY	X	187	19.023	41.079	24.959	0.00	0.00
ATOM	2882	C	GLY	X	187	18.744	41.304	27.034	0.00	0.00
ATOM	2883	O	GLY	X	187	17.979	40.363	27.324	0.00	0.00
ATOM	2884	N	GLY	X	188	19.658	41.676	27.896	0.00	0.00
ATOM	2885	H	GLY	X	188	20.423	42.165	27.454	0.00	0.00
ATOM	2886	CA	GLY	X	188	19.759	41.034	29.198	0.00	0.00
ATOM	2887	HA2	GLY	X	188	19.444	39.992	29.131	0.00	0.00
ATOM	2888	HA3	GLY	X	188	20.727	41.139	29.686	0.00	0.00
ATOM	2889	C	GLY	X	188	18.797	41.667	30.163	0.00	0.00
ATOM	2890	O	GLY	X	188	18.210	42.732	29.828	0.00	0.00
ATOM	2891	N	ASP	X	189	18.683	41.109	31.352	0.00	0.00
ATOM	2892	H	ASP	X	189	19.148	40.251	31.612	0.00	0.00
ATOM	2893	CA	ASP	X	189	17.728	41.592	32.318	0.00	0.00
ATOM	2894	HA	ASP	X	189	16.977	42.235	31.857	0.00	0.00
ATOM	2895	CB	ASP	X	189	16.877	40.428	32.868	0.00	0.00
ATOM	2896	HB2	ASP	X	189	16.263	39.858	32.170	0.00	0.00
ATOM	2897	HB3	ASP	X	189	17.520	39.657	33.290	0.00	0.00
ATOM	2898	CG	ASP	X	189	16.011	40.816	34.026	0.00	0.00
ATOM	2899	OD1	ASP	X	189	16.020	40.077	35.043	0.00	0.00
ATOM	2900	OD2	ASP	X	189	15.457	41.902	33.998	0.00	0.00
ATOM	2901	C	ASP	X	189	18.377	42.416	33.433	0.00	0.00
ATOM	2902	O	ASP	X	189	19.063	41.840	34.264	0.00	0.00
ATOM	2903	N	PRO	X	190	18.058	43.670	33.672	0.00	0.00
ATOM	2904	CD	PRO	X	190	17.275	44.472	32.748	0.00	0.00
ATOM	2905	HD2	PRO	X	190	16.239	44.153	32.862	0.00	0.00
ATOM	2906	HD3	PRO	X	190	17.604	44.394	31.712	0.00	0.00
ATOM	2907	CG	PRO	X	190	17.568	45.842	33.170	0.00	0.00
ATOM	2908	HG2	PRO	X	190	16.708	46.472	32.943	0.00	0.00
ATOM	2909	HG3	PRO	X	190	18.464	46.243	32.698	0.00	0.00
ATOM	2910	CB	PRO	X	190	17.786	45.705	34.658	0.00	0.00
ATOM	2911	HB2	PRO	X	190	16.868	45.571	35.231	0.00	0.00
ATOM	2912	HB3	PRO	X	190	18.330	46.602	34.955	0.00	0.00
ATOM	2913	CA	PRO	X	190	18.619	44.486	34.713	0.00	0.00
ATOM	2914	HA	PRO	X	190	19.707	44.439	34.662	0.00	0.00
ATOM	2915	C	PRO	X	190	18.355	43.897	36.111	0.00	0.00
ATOM	2916	O	PRO	X	190	19.178	44.220	36.990	0.00	0.00
ATOM	2917	N	THR	X	191	17.317	43.074	36.357	0.00	0.00
ATOM	2918	H	THR	X	191	16.660	42.826	35.631	0.00	0.00
ATOM	2919	CA	THR	X	191	17.047	42.429	37.641	0.00	0.00
ATOM	2920	HA	THR	X	191	17.333	43.150	38.407	0.00	0.00
ATOM	2921	CB	THR	X	191	15.549	42.098	37.771	0.00	0.00
ATOM	2922	HB	THR	X	191	15.359	41.247	37.117	0.00	0.00
ATOM	2923	CG2	THR	X	191	14.914	41.652	39.070	0.00	0.00
ATOM	2924	HG21	THR	X	191	15.358	42.225	39.884	0.00	0.00
ATOM	2925	HG22	THR	X	191	15.062	40.588	39.257	0.00	0.00
ATOM	2926	HG23	THR	X	191	13.853	41.899	39.065	0.00	0.00
ATOM	2927	OG1	THR	X	191	14.741	43.198	37.355	0.00	0.00
ATOM	2928	HG1	THR	X	191	14.752	43.935	37.970	0.00	0.00
ATOM	2929	C	THR	X	191	17.920	41.197	37.725	0.00	0.00
ATOM	2930	O	THR	X	191	17.728	40.443	38.651	0.00	0.00
ATOM	2931	N	SER	X	192	18.826	41.016	36.785	0.00	0.00
ATOM	2932	H	SER	X	192	19.064	41.694	36.076	0.00	0.00

ATOM	2933	CA	SER	X	192	19.717	39.792	36.802	0.00	0.00
ATOM	2934	HA	SER	X	192	19.695	39.236	37.740	0.00	0.00
ATOM	2935	CB	SER	X	192	19.160	38.802	35.788	0.00	0.00
ATOM	2936	HB2	SER	X	192	19.372	39.083	34.756	0.00	0.00
ATOM	2937	HB3	SER	X	192	19.687	37.857	35.924	0.00	0.00
ATOM	2938	OG	SER	X	192	17.774	38.479	35.981	0.00	0.00
ATOM	2939	HG	SER	X	192	17.289	39.148	35.494	0.00	0.00
ATOM	2940	C	SER	X	192	21.234	40.056	36.588	0.00	0.00
ATOM	2941	O	SER	X	192	21.838	39.347	35.835	0.00	0.00
ATOM	2942	N	VAL	X	193	21.794	41.111	37.194	0.00	0.00
ATOM	2943	H	VAL	X	193	21.272	41.437	37.996	0.00	0.00
ATOM	2944	CA	VAL	X	193	23.214	41.430	37.007	0.00	0.00
ATOM	2945	HA	VAL	X	193	23.578	41.127	36.026	0.00	0.00
ATOM	2946	CB	VAL	X	193	23.550	42.942	36.993	0.00	0.00
ATOM	2947	HB	VAL	X	193	23.117	43.347	37.908	0.00	0.00
ATOM	2948	CG1	VAL	X	193	25.051	43.375	37.074	0.00	0.00
ATOM	2949	HG11	VAL	X	193	25.214	44.416	36.792	0.00	0.00
ATOM	2950	HG12	VAL	X	193	25.456	43.195	38.070	0.00	0.00
ATOM	2951	HG13	VAL	X	193	25.702	42.857	36.370	0.00	0.00
ATOM	2952	CG2	VAL	X	193	22.743	43.708	35.891	0.00	0.00
ATOM	2953	HG21	VAL	X	193	23.282	43.501	34.967	0.00	0.00
ATOM	2954	HG22	VAL	X	193	22.640	44.779	36.069	0.00	0.00
ATOM	2955	HG23	VAL	X	193	21.673	43.497	35.905	0.00	0.00
ATOM	2956	C	VAL	X	193	24.080	40.604	38.043	0.00	0.00
ATOM	2957	O	VAL	X	193	23.605	40.310	39.168	0.00	0.00
ATOM	2958	N	THR	X	194	25.203	40.064	37.529	0.00	0.00
ATOM	2959	H	THR	X	194	25.348	40.231	36.543	0.00	0.00
ATOM	2960	CA	THR	X	194	26.204	39.152	38.169	0.00	0.00
ATOM	2961	HA	THR	X	194	26.088	39.247	39.249	0.00	0.00
ATOM	2962	CB	THR	X	194	26.079	37.688	37.722	0.00	0.00
ATOM	2963	HB	THR	X	194	26.298	37.587	36.659	0.00	0.00
ATOM	2964	CG2	THR	X	194	27.061	36.718	38.340	0.00	0.00
ATOM	2965	HG21	THR	X	194	26.636	36.197	39.198	0.00	0.00
ATOM	2966	HG22	THR	X	194	27.940	37.262	38.688	0.00	0.00
ATOM	2967	HG23	THR	X	194	27.428	35.993	37.614	0.00	0.00
ATOM	2968	OG1	THR	X	194	24.861	37.107	38.095	0.00	0.00
ATOM	2969	HG1	THR	X	194	24.105	37.525	37.676	0.00	0.00
ATOM	2970	C	THR	X	194	27.599	39.696	37.970	0.00	0.00
ATOM	2971	O	THR	X	194	28.129	39.652	36.834	0.00	0.00
ATOM	2972	N	LEU	X	195	28.243	40.182	38.984	0.00	0.00
ATOM	2973	H	LEU	X	195	27.911	40.163	39.938	0.00	0.00
ATOM	2974	CA	LEU	X	195	29.666	40.578	38.907	0.00	0.00
ATOM	2975	HA	LEU	X	195	29.960	41.276	38.123	0.00	0.00
ATOM	2976	CB	LEU	X	195	30.038	41.335	40.176	0.00	0.00
ATOM	2977	HB2	LEU	X	195	29.837	40.605	40.960	0.00	0.00
ATOM	2978	HB3	LEU	X	195	31.109	41.530	40.241	0.00	0.00
ATOM	2979	CG	LEU	X	195	29.325	42.655	40.540	0.00	0.00
ATOM	2980	HG	LEU	X	195	28.445	42.395	41.129	0.00	0.00
ATOM	2981	CD1	LEU	X	195	30.197	43.706	41.304	0.00	0.00
ATOM	2982	HD11	LEU	X	195	29.548	44.530	41.602	0.00	0.00
ATOM	2983	HD12	LEU	X	195	31.032	44.083	40.712	0.00	0.00
ATOM	2984	HD13	LEU	X	195	30.732	43.351	42.184	0.00	0.00
ATOM	2985	CD2	LEU	X	195	28.791	43.461	39.349	0.00	0.00
ATOM	2986	HD21	LEU	X	195	29.554	43.682	38.602	0.00	0.00
ATOM	2987	HD22	LEU	X	195	28.005	42.853	38.903	0.00	0.00
ATOM	2988	HD23	LEU	X	195	28.285	44.344	39.739	0.00	0.00
ATOM	2989	C	LEU	X	195	30.553	39.340	38.751	0.00	0.00
ATOM	2990	O	LEU	X	195	30.238	38.344	39.393	0.00	0.00
ATOM	2991	N	PHE	X	196	31.638	39.479	38.065	0.00	0.00
ATOM	2992	H	PHE	X	196	31.894	40.334	37.593	0.00	0.00
ATOM	2993	CA	PHE	X	196	32.338	38.292	37.620	0.00	0.00
ATOM	2994	HA	PHE	X	196	32.404	37.664	38.508	0.00	0.00
ATOM	2995	CB	PHE	X	196	31.525	37.733	36.405	0.00	0.00
ATOM	2996	HB2	PHE	X	196	30.535	37.385	36.702	0.00	0.00
ATOM	2997	HB3	PHE	X	196	31.314	38.515	35.676	0.00	0.00
ATOM	2998	CG	PHE	X	196	32.011	36.620	35.623	0.00	0.00
ATOM	2999	CD1	PHE	X	196	31.895	36.664	34.209	0.00	0.00

ATOM	3000	HD1	PHE	X	196	31.278	37.437	33.775	0.00	0.00
ATOM	3001	CE1	PHE	X	196	32.382	35.624	33.452	0.00	0.00
ATOM	3002	HE1	PHE	X	196	32.364	35.653	32.373	0.00	0.00
ATOM	3003	CZ	PHE	X	196	33.119	34.532	34.061	0.00	0.00
ATOM	3004	HZ	PHE	X	196	33.482	33.737	33.426	0.00	0.00
ATOM	3005	CE2	PHE	X	196	33.117	34.430	35.463	0.00	0.00
ATOM	3006	HE2	PHE	X	196	33.618	33.544	35.826	0.00	0.00
ATOM	3007	CD2	PHE	X	196	32.701	35.569	36.203	0.00	0.00
ATOM	3008	HD2	PHE	X	196	32.905	35.502	37.262	0.00	0.00
ATOM	3009	C	PHE	X	196	33.709	38.826	37.207	0.00	0.00
ATOM	3010	O	PHE	X	196	33.867	39.929	36.741	0.00	0.00
ATOM	3011	N	GLY	X	197	34.767	38.083	37.612	0.00	0.00
ATOM	3012	H	GLY	X	197	34.492	37.164	37.927	0.00	0.00
ATOM	3013	CA	GLY	X	197	36.086	38.627	37.747	0.00	0.00
ATOM	3014	HA2	GLY	X	197	36.476	38.618	36.729	0.00	0.00
ATOM	3015	HA3	GLY	X	197	36.072	39.622	38.191	0.00	0.00
ATOM	3016	C	GLY	X	197	37.091	37.773	38.504	0.00	0.00
ATOM	3017	O	GLY	X	197	36.766	37.003	39.411	0.00	0.00
ATOM	3018	N	GLU	X	198	38.337	37.899	38.039	0.00	0.00
ATOM	3019	H	GLU	X	198	38.481	38.777	37.561	0.00	0.00
ATOM	3020	CA	GLU	X	198	39.575	37.182	38.365	0.00	0.00
ATOM	3021	HA	GLU	X	198	39.416	36.355	39.057	0.00	0.00
ATOM	3022	CB	GLU	X	198	40.243	36.503	37.156	0.00	0.00
ATOM	3023	HB2	GLU	X	198	41.093	35.928	37.523	0.00	0.00
ATOM	3024	HB3	GLU	X	198	39.568	35.752	36.746	0.00	0.00
ATOM	3025	CG	GLU	X	198	40.687	37.361	35.947	0.00	0.00
ATOM	3026	HG2	GLU	X	198	40.633	36.665	35.110	0.00	0.00
ATOM	3027	HG3	GLU	X	198	40.003	38.193	35.781	0.00	0.00
ATOM	3028	CD	GLU	X	198	42.194	37.721	35.957	0.00	0.00
ATOM	3029	OE1	GLU	X	198	42.614	38.355	34.917	0.00	0.00
ATOM	3030	OE2	GLU	X	198	42.971	37.478	36.932	0.00	0.00
ATOM	3031	C	GLU	X	198	40.615	38.081	38.942	0.00	0.00
ATOM	3032	O	GLU	X	198	40.871	39.208	38.426	0.00	0.00
ATOM	3033	N	XA1	X	199	41.238	37.636	39.998	0.00	0.00
ATOM	3034	CA	XA1	X	199	42.494	38.294	40.546	0.00	0.00
ATOM	3035	C	XA1	X	199	42.198	39.691	41.239	0.00	0.00
ATOM	3036	O	XA1	X	199	41.425	39.832	42.197	0.00	0.00
ATOM	3037	CB	XA1	X	199	43.740	38.163	39.640	0.00	0.00
ATOM	3038	OG	XA1	X	199	44.944	38.388	40.459	0.00	0.00
ATOM	3039	P1	XA1	X	199	46.011	39.357	39.857	0.00	0.00
ATOM	3040	O1	XA1	X	199	45.420	40.626	39.389	0.00	0.00
ATOM	3041	O2	XA1	X	199	46.905	38.574	38.970	0.00	0.00
ATOM	3042	C1	XA1	X	199	47.060	39.757	41.246	0.00	0.00
ATOM	3043	H	XA1	X	199	40.951	36.802	40.490	0.00	0.00
ATOM	3044	HA	XA1	X	199	42.879	37.716	41.385	0.00	0.00
ATOM	3045	HB2	XA1	X	199	43.778	37.125	39.298	0.00	0.00
ATOM	3046	HB3	XA1	X	199	43.714	38.839	38.781	0.00	0.00
ATOM	3047	H11	XA1	X	199	46.524	40.129	42.122	0.00	0.00
ATOM	3048	H12	XA1	X	199	47.601	38.820	41.395	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.858	40.437	40.944	0.00	0.00
ATOM	3050	N	ALA	X	200	42.725	40.836	40.655	0.00	0.00
ATOM	3051	H	ALA	X	200	43.377	40.689	39.898	0.00	0.00
ATOM	3052	CA	ALA	X	200	42.311	42.177	40.916	0.00	0.00
ATOM	3053	HA	ALA	X	200	42.363	42.286	41.999	0.00	0.00
ATOM	3054	CB	ALA	X	200	43.324	43.142	40.252	0.00	0.00
ATOM	3055	HB1	ALA	X	200	44.340	42.906	40.568	0.00	0.00
ATOM	3056	HB2	ALA	X	200	43.117	44.208	40.342	0.00	0.00
ATOM	3057	HB3	ALA	X	200	43.458	42.826	39.217	0.00	0.00
ATOM	3058	C	ALA	X	200	40.881	42.436	40.441	0.00	0.00
ATOM	3059	O	ALA	X	200	40.229	43.318	40.957	0.00	0.00
ATOM	3060	N	GLY	X	201	40.235	41.523	39.703	0.00	0.00
ATOM	3061	H	GLY	X	201	40.669	40.726	39.259	0.00	0.00
ATOM	3062	CA	GLY	X	201	38.789	41.616	39.246	0.00	0.00
ATOM	3063	HA2	GLY	X	201	38.631	42.670	39.013	0.00	0.00
ATOM	3064	HA3	GLY	X	201	38.760	41.113	38.280	0.00	0.00
ATOM	3065	C	GLY	X	201	37.853	41.035	40.265	0.00	0.00
ATOM	3066	O	GLY	X	201	37.000	41.738	40.762	0.00	0.00

ATOM	3067	N	ALA	X	202	38.329	39.912	40.847	0.00	0.00
ATOM	3068	H	ALA	X	202	39.201	39.515	40.528	0.00	0.00
ATOM	3069	CA	ALA	X	202	37.751	39.365	42.065	0.00	0.00
ATOM	3070	HA	ALA	X	202	36.684	39.239	41.886	0.00	0.00
ATOM	3071	CB	ALA	X	202	38.282	37.988	42.371	0.00	0.00
ATOM	3072	HB1	ALA	X	202	37.882	37.556	43.288	0.00	0.00
ATOM	3073	HB2	ALA	X	202	39.346	38.035	42.601	0.00	0.00
ATOM	3074	HB3	ALA	X	202	38.004	37.361	41.524	0.00	0.00
ATOM	3075	C	ALA	X	202	37.908	40.278	43.339	0.00	0.00
ATOM	3076	O	ALA	X	202	36.931	40.582	44.006	0.00	0.00
ATOM	3077	N	ALA	X	203	39.062	40.903	43.521	0.00	0.00
ATOM	3078	H	ALA	X	203	39.918	40.562	43.107	0.00	0.00
ATOM	3079	CA	ALA	X	203	39.134	41.972	44.510	0.00	0.00
ATOM	3080	HA	ALA	X	203	38.636	41.692	45.438	0.00	0.00
ATOM	3081	CB	ALA	X	203	40.598	42.274	44.724	0.00	0.00
ATOM	3082	HB1	ALA	X	203	40.670	42.924	45.595	0.00	0.00
ATOM	3083	HB2	ALA	X	203	40.907	42.761	43.799	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.145	41.375	45.008	0.00	0.00
ATOM	3085	C	ALA	X	203	38.239	43.256	44.173	0.00	0.00
ATOM	3086	O	ALA	X	203	37.587	43.718	45.105	0.00	0.00
ATOM	3087	N	SER	X	204	38.067	43.599	42.943	0.00	0.00
ATOM	3088	H	SER	X	204	38.675	43.275	42.205	0.00	0.00
ATOM	3089	CA	SER	X	204	37.148	44.691	42.569	0.00	0.00
ATOM	3090	HA	SER	X	204	37.354	45.626	43.089	0.00	0.00
ATOM	3091	CB	SER	X	204	37.152	44.969	41.077	0.00	0.00
ATOM	3092	HB2	SER	X	204	37.097	44.035	40.516	0.00	0.00
ATOM	3093	HB3	SER	X	204	36.249	45.538	40.855	0.00	0.00
ATOM	3094	OG	SER	X	204	38.342	45.533	40.661	0.00	0.00
ATOM	3095	HG	SER	X	204	38.994	44.829	40.680	0.00	0.00
ATOM	3096	C	SER	X	204	35.688	44.214	42.925	0.00	0.00
ATOM	3097	O	SER	X	204	35.066	44.946	43.699	0.00	0.00
ATOM	3098	N	VAL	X	205	35.184	43.085	42.369	0.00	0.00
ATOM	3099	H	VAL	X	205	35.826	42.566	41.787	0.00	0.00
ATOM	3100	CA	VAL	X	205	33.924	42.422	42.695	0.00	0.00
ATOM	3101	HA	VAL	X	205	33.126	43.086	42.364	0.00	0.00
ATOM	3102	CB	VAL	X	205	33.900	40.940	42.158	0.00	0.00
ATOM	3103	HB	VAL	X	205	34.766	40.320	42.390	0.00	0.00
ATOM	3104	CG1	VAL	X	205	32.688	40.201	42.677	0.00	0.00
ATOM	3105	HG11	VAL	X	205	32.551	39.271	42.126	0.00	0.00
ATOM	3106	HG12	VAL	X	205	32.933	39.905	43.697	0.00	0.00
ATOM	3107	HG13	VAL	X	205	31.874	40.914	42.544	0.00	0.00
ATOM	3108	CG2	VAL	X	205	33.854	40.986	40.578	0.00	0.00
ATOM	3109	HG21	VAL	X	205	33.299	41.841	40.192	0.00	0.00
ATOM	3110	HG22	VAL	X	205	33.599	40.019	40.146	0.00	0.00
ATOM	3111	HG23	VAL	X	205	34.846	41.047	40.130	0.00	0.00
ATOM	3112	C	VAL	X	205	33.685	42.385	44.222	0.00	0.00
ATOM	3113	O	VAL	X	205	32.679	42.849	44.735	0.00	0.00
ATOM	3114	N	GLY	X	206	34.764	42.162	45.050	0.00	0.00
ATOM	3115	H	GLY	X	206	35.589	41.726	44.664	0.00	0.00
ATOM	3116	CA	GLY	X	206	34.582	42.133	46.529	0.00	0.00
ATOM	3117	HA2	GLY	X	206	33.760	41.461	46.774	0.00	0.00
ATOM	3118	HA3	GLY	X	206	35.438	41.607	46.953	0.00	0.00
ATOM	3119	C	GLY	X	206	34.482	43.417	47.326	0.00	0.00
ATOM	3120	O	GLY	X	206	33.895	43.483	48.339	0.00	0.00
ATOM	3121	N	MET	X	207	35.164	44.459	46.845	0.00	0.00
ATOM	3122	H	MET	X	207	35.721	44.391	46.006	0.00	0.00
ATOM	3123	CA	MET	X	207	34.971	45.786	47.314	0.00	0.00
ATOM	3124	HA	MET	X	207	35.144	45.875	48.387	0.00	0.00
ATOM	3125	CB	MET	X	207	36.097	46.601	46.584	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.136	46.398	45.513	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.858	47.659	46.688	0.00	0.00
ATOM	3128	CG	MET	X	207	37.430	46.421	47.234	0.00	0.00
ATOM	3129	HG2	MET	X	207	37.270	46.720	48.270	0.00	0.00
ATOM	3130	HG3	MET	X	207	37.721	45.371	47.221	0.00	0.00
ATOM	3131	SD	MET	X	207	38.807	47.247	46.518	0.00	0.00
ATOM	3132	CE	MET	X	207	40.078	45.947	46.674	0.00	0.00
ATOM	3133	HE1	MET	X	207	39.703	45.062	46.160	0.00	0.00

ATOM	3134	HE2	MET	X	207	40.987	46.336	46.214	0.00	0.00
ATOM	3135	HE3	MET	X	207	40.400	45.856	47.711	0.00	0.00
ATOM	3136	C	MET	X	207	33.574	46.289	46.945	0.00	0.00
ATOM	3137	O	MET	X	207	32.994	46.982	47.711	0.00	0.00
ATOM	3138	N	HIE	X	208	33.103	45.950	45.752	0.00	0.00
ATOM	3139	H	HIE	X	208	33.761	45.614	45.063	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.693	46.248	45.426	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.587	47.309	45.655	0.00	0.00
ATOM	3142	CB	HIE	X	208	31.453	46.055	43.933	0.00	0.00
ATOM	3143	HB2	HIE	X	208	31.641	44.994	43.767	0.00	0.00
ATOM	3144	HB3	HIE	X	208	30.378	46.069	43.753	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.236	46.845	42.880	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.113	48.214	42.627	0.00	0.00
ATOM	3147	CE1	HIE	X	208	32.977	48.473	41.604	0.00	0.00
ATOM	3148	HE1	HIE	X	208	32.979	49.436	41.115	0.00	0.00
ATOM	3149	NE2	HIE	X	208	33.551	47.275	41.177	0.00	0.00
ATOM	3150	HE2	HIE	X	208	34.122	47.228	40.346	0.00	0.00
ATOM	3151	CD2	HIE	X	208	33.032	46.249	41.977	0.00	0.00
ATOM	3152	HD2	HIE	X	208	33.101	45.174	41.906	0.00	0.00
ATOM	3153	C	HIE	X	208	30.742	45.440	46.329	0.00	0.00
ATOM	3154	O	HIE	X	208	29.696	46.024	46.603	0.00	0.00
ATOM	3155	N	LEU	X	209	30.991	44.144	46.622	0.00	0.00
ATOM	3156	H	LEU	X	209	31.736	43.698	46.106	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.216	43.365	47.559	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.181	43.157	47.285	0.00	0.00
ATOM	3159	CB	LEU	X	209	30.893	41.972	47.707	0.00	0.00
ATOM	3160	HB2	LEU	X	209	31.170	41.701	46.688	0.00	0.00
ATOM	3161	HB3	LEU	X	209	31.834	42.037	48.252	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.000	40.829	48.234	0.00	0.00
ATOM	3163	HG	LEU	X	209	29.726	41.059	49.264	0.00	0.00
ATOM	3164	CD1	LEU	X	209	28.734	40.521	47.362	0.00	0.00
ATOM	3165	HD11	LEU	X	209	28.974	40.618	46.303	0.00	0.00
ATOM	3166	HD12	LEU	X	209	27.933	41.244	47.518	0.00	0.00
ATOM	3167	HD13	LEU	X	209	28.502	39.472	47.545	0.00	0.00
ATOM	3168	CD2	LEU	X	209	30.795	39.558	48.062	0.00	0.00
ATOM	3169	HD21	LEU	X	209	31.690	39.466	48.677	0.00	0.00
ATOM	3170	HD22	LEU	X	209	30.194	38.704	48.373	0.00	0.00
ATOM	3171	HD23	LEU	X	209	31.108	39.418	47.027	0.00	0.00
ATOM	3172	C	LEU	X	209	30.103	44.008	49.001	0.00	0.00
ATOM	3173	O	LEU	X	209	29.031	43.857	49.611	0.00	0.00
ATOM	3174	N	LEU	X	210	31.212	44.606	49.481	0.00	0.00
ATOM	3175	H	LEU	X	210	32.087	44.435	49.005	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.388	45.168	50.835	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.899	44.518	51.560	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.899	45.197	51.167	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.250	44.166	51.215	0.00	0.00
ATOM	3180	HB3	LEU	X	210	33.388	45.862	50.455	0.00	0.00
ATOM	3181	CG	LEU	X	210	33.352	45.899	52.548	0.00	0.00
ATOM	3182	HG	LEU	X	210	33.094	46.958	52.565	0.00	0.00
ATOM	3183	CD1	LEU	X	210	32.561	45.222	53.739	0.00	0.00
ATOM	3184	HD11	LEU	X	210	31.491	45.214	53.533	0.00	0.00
ATOM	3185	HD12	LEU	X	210	32.740	45.792	54.651	0.00	0.00
ATOM	3186	HD13	LEU	X	210	32.865	44.180	53.841	0.00	0.00
ATOM	3187	CD2	LEU	X	210	34.879	45.783	52.741	0.00	0.00
ATOM	3188	HD21	LEU	X	210	35.119	44.720	52.740	0.00	0.00
ATOM	3189	HD22	LEU	X	210	35.406	46.381	51.998	0.00	0.00
ATOM	3190	HD23	LEU	X	210	35.206	46.134	53.720	0.00	0.00
ATOM	3191	C	LEU	X	210	30.791	46.561	50.935	0.00	0.00
ATOM	3192	O	LEU	X	210	30.604	47.108	52.023	0.00	0.00
ATOM	3193	N	SER	X	211	30.481	47.277	49.828	0.00	0.00
ATOM	3194	H	SER	X	211	30.746	46.900	48.930	0.00	0.00
ATOM	3195	CA	SER	X	211	30.138	48.677	49.651	0.00	0.00
ATOM	3196	HA	SER	X	211	30.296	49.091	50.647	0.00	0.00
ATOM	3197	CB	SER	X	211	31.282	49.352	48.798	0.00	0.00
ATOM	3198	HB2	SER	X	211	32.227	49.088	49.274	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.148	48.967	47.787	0.00	0.00
ATOM	3200	OG	SER	X	211	31.198	50.795	48.575	0.00	0.00

ATOM	3201	HG	SER	X	211	30.968	51.195	49.417	0.00	0.00
ATOM	3202	C	SER	X	211	28.717	48.843	49.151	0.00	0.00
ATOM	3203	O	SER	X	211	28.495	48.510	47.958	0.00	0.00
ATOM	3204	N	PRO	X	212	27.682	49.226	50.035	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.858	49.629	51.378	0.00	0.00
ATOM	3206	HD2	PRO	X	212	28.364	50.593	51.331	0.00	0.00
ATOM	3207	HD3	PRO	X	212	28.493	48.887	51.862	0.00	0.00
ATOM	3208	CG	PRO	X	212	26.425	49.671	51.948	0.00	0.00
ATOM	3209	HG2	PRO	X	212	26.255	50.250	52.856	0.00	0.00
ATOM	3210	HG3	PRO	X	212	26.234	48.678	52.357	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.557	50.014	50.751	0.00	0.00
ATOM	3212	HB2	PRO	X	212	25.404	51.045	50.433	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.579	49.552	50.880	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.278	49.303	49.569	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.953	48.263	49.546	0.00	0.00
ATOM	3216	C	PRO	X	212	25.944	49.981	48.258	0.00	0.00
ATOM	3217	O	PRO	X	212	25.159	49.459	47.506	0.00	0.00
ATOM	3218	N	PRO	X	213	26.514	51.143	47.915	0.00	0.00
ATOM	3219	CD	PRO	X	213	27.426	52.044	48.701	0.00	0.00
ATOM	3220	HD2	PRO	X	213	28.266	51.403	48.969	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.939	52.451	49.587	0.00	0.00
ATOM	3222	CG	PRO	X	213	27.904	53.133	47.728	0.00	0.00
ATOM	3223	HG2	PRO	X	213	28.697	52.743	47.089	0.00	0.00
ATOM	3224	HG3	PRO	X	213	28.243	54.077	48.153	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.670	53.328	46.850	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.768	53.851	45.899	0.00	0.00
ATOM	3227	HB3	PRO	X	213	25.942	53.936	47.385	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.118	51.899	46.707	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.032	51.982	46.661	0.00	0.00
ATOM	3230	C	PRO	X	213	26.608	51.226	45.414	0.00	0.00
ATOM	3231	O	PRO	X	213	26.075	51.506	44.326	0.00	0.00
ATOM	3232	N	SER	X	214	27.612	50.412	45.441	0.00	0.00
ATOM	3233	H	SER	X	214	28.004	50.272	46.361	0.00	0.00
ATOM	3234	CA	SER	X	214	27.985	49.498	44.377	0.00	0.00
ATOM	3235	HA	SER	X	214	27.906	49.914	43.373	0.00	0.00
ATOM	3236	CB	SER	X	214	29.388	48.976	44.541	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.544	48.835	45.611	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.512	48.031	44.012	0.00	0.00
ATOM	3239	OG	SER	X	214	30.442	49.857	44.166	0.00	0.00
ATOM	3240	HG	SER	X	214	31.203	49.386	43.819	0.00	0.00
ATOM	3241	C	SER	X	214	27.139	48.161	44.353	0.00	0.00
ATOM	3242	O	SER	X	214	26.507	47.796	43.324	0.00	0.00
ATOM	3243	N	ARG	X	215	27.076	47.527	45.501	0.00	0.00
ATOM	3244	H	ARG	X	215	27.720	47.843	46.212	0.00	0.00
ATOM	3245	CA	ARG	X	215	26.277	46.340	45.929	0.00	0.00
ATOM	3246	HA	ARG	X	215	26.672	45.425	45.487	0.00	0.00
ATOM	3247	CB	ARG	X	215	26.236	46.092	47.434	0.00	0.00
ATOM	3248	HB2	ARG	X	215	27.141	45.673	47.875	0.00	0.00
ATOM	3249	HB3	ARG	X	215	26.154	47.056	47.936	0.00	0.00
ATOM	3250	CG	ARG	X	215	25.164	45.154	47.909	0.00	0.00
ATOM	3251	HG2	ARG	X	215	24.207	45.666	47.808	0.00	0.00
ATOM	3252	HG3	ARG	X	215	25.128	44.327	47.199	0.00	0.00
ATOM	3253	CD	ARG	X	215	25.348	44.636	49.392	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.256	44.038	49.469	0.00	0.00
ATOM	3255	HD3	ARG	X	215	25.403	45.496	50.060	0.00	0.00
ATOM	3256	NE	ARG	X	215	24.199	43.852	49.677	0.00	0.00
ATOM	3257	HE	ARG	X	215	23.588	43.713	48.885	0.00	0.00
ATOM	3258	CZ	ARG	X	215	23.850	43.311	50.849	0.00	0.00
ATOM	3259	NH1	ARG	X	215	24.384	43.611	51.993	0.00	0.00
ATOM	3260	HH11	ARG	X	215	25.067	44.355	52.021	0.00	0.00
ATOM	3261	HH12	ARG	X	215	23.831	43.285	52.772	0.00	0.00
ATOM	3262	NH2	ARG	X	215	22.780	42.529	50.900	0.00	0.00
ATOM	3263	HH21	ARG	X	215	22.297	42.158	50.094	0.00	0.00
ATOM	3264	HH22	ARG	X	215	22.437	42.159	51.775	0.00	0.00
ATOM	3265	C	ARG	X	215	24.829	46.477	45.403	0.00	0.00
ATOM	3266	O	ARG	X	215	24.305	45.501	44.872	0.00	0.00
ATOM	3267	N	GLY	X	216	24.223	47.667	45.551	0.00	0.00

ATOM	3268	H	GLY	X	216	24.811	48.397	45.927	0.00	0.00
ATOM	3269	CA	GLY	X	216	22.851	48.054	45.192	0.00	0.00
ATOM	3270	HA2	GLY	X	216	22.165	47.309	45.595	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.519	48.966	45.688	0.00	0.00
ATOM	3272	C	GLY	X	216	22.571	48.191	43.662	0.00	0.00
ATOM	3273	O	GLY	X	216	21.436	48.540	43.319	0.00	0.00
ATOM	3274	N	LEU	X	217	23.492	47.848	42.796	0.00	0.00
ATOM	3275	H	LEU	X	217	24.404	47.549	43.112	0.00	0.00
ATOM	3276	CA	LEU	X	217	23.393	47.807	41.322	0.00	0.00
ATOM	3277	HA	LEU	X	217	22.491	48.277	40.928	0.00	0.00
ATOM	3278	CB	LEU	X	217	24.563	48.654	40.668	0.00	0.00
ATOM	3279	HB2	LEU	X	217	25.492	48.200	41.011	0.00	0.00
ATOM	3280	HB3	LEU	X	217	24.425	48.536	39.593	0.00	0.00
ATOM	3281	CG	LEU	X	217	24.581	50.161	40.988	0.00	0.00
ATOM	3282	HG	LEU	X	217	24.383	50.177	42.060	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.036	50.634	40.605	0.00	0.00
ATOM	3284	HD11	LEU	X	217	26.148	51.680	40.891	0.00	0.00
ATOM	3285	HD12	LEU	X	217	26.147	50.566	39.523	0.00	0.00
ATOM	3286	HD13	LEU	X	217	26.748	50.068	41.205	0.00	0.00
ATOM	3287	CD2	LEU	X	217	23.427	50.922	40.288	0.00	0.00
ATOM	3288	HD21	LEU	X	217	23.595	51.094	39.225	0.00	0.00
ATOM	3289	HD22	LEU	X	217	22.468	50.434	40.461	0.00	0.00
ATOM	3290	HD23	LEU	X	217	23.346	51.834	40.880	0.00	0.00
ATOM	3291	C	LEU	X	217	23.390	46.421	40.665	0.00	0.00
ATOM	3292	O	LEU	X	217	23.330	46.214	39.425	0.00	0.00
ATOM	3293	N	PHE	X	218	23.573	45.408	41.468	0.00	0.00
ATOM	3294	H	PHE	X	218	23.524	45.537	42.468	0.00	0.00
ATOM	3295	CA	PHE	X	218	23.748	43.989	41.005	0.00	0.00
ATOM	3296	HA	PHE	X	218	23.194	43.913	40.069	0.00	0.00
ATOM	3297	CB	PHE	X	218	25.245	43.671	40.705	0.00	0.00
ATOM	3298	HB2	PHE	X	218	25.230	42.707	40.197	0.00	0.00
ATOM	3299	HB3	PHE	X	218	25.625	44.394	39.983	0.00	0.00
ATOM	3300	CG	PHE	X	218	26.177	43.690	41.948	0.00	0.00
ATOM	3301	CD1	PHE	X	218	26.792	44.899	42.292	0.00	0.00
ATOM	3302	HD1	PHE	X	218	26.754	45.803	41.701	0.00	0.00
ATOM	3303	CE1	PHE	X	218	27.721	44.902	43.339	0.00	0.00
ATOM	3304	HE1	PHE	X	218	28.327	45.764	43.575	0.00	0.00
ATOM	3305	CZ	PHE	X	218	27.911	43.761	44.087	0.00	0.00
ATOM	3306	HZ	PHE	X	218	28.633	43.717	44.889	0.00	0.00
ATOM	3307	CE2	PHE	X	218	27.278	42.521	43.790	0.00	0.00
ATOM	3308	HE2	PHE	X	218	27.517	41.648	44.379	0.00	0.00
ATOM	3309	CD2	PHE	X	218	26.417	42.505	42.665	0.00	0.00
ATOM	3310	HD2	PHE	X	218	25.973	41.566	42.368	0.00	0.00
ATOM	3311	C	PHE	X	218	23.107	43.027	42.078	0.00	0.00
ATOM	3312	O	PHE	X	218	22.630	43.483	43.143	0.00	0.00
ATOM	3313	N	HIE	X	219	23.068	41.707	41.793	0.00	0.00
ATOM	3314	H	HIE	X	219	23.281	41.506	40.827	0.00	0.00
ATOM	3315	CA	HIE	X	219	22.279	40.705	42.530	0.00	0.00
ATOM	3316	HA	HIE	X	219	21.796	41.164	43.392	0.00	0.00
ATOM	3317	CB	HIE	X	219	21.109	40.235	41.629	0.00	0.00
ATOM	3318	HB2	HIE	X	219	21.584	39.567	40.912	0.00	0.00
ATOM	3319	HB3	HIE	X	219	20.401	39.705	42.266	0.00	0.00
ATOM	3320	CG	HIE	X	219	20.268	41.294	40.992	0.00	0.00
ATOM	3321	ND1	HIE	X	219	20.724	42.020	39.919	0.00	0.00
ATOM	3322	CE1	HIE	X	219	19.905	43.099	39.810	0.00	0.00
ATOM	3323	HE1	HIE	X	219	20.127	43.914	39.137	0.00	0.00
ATOM	3324	NE2	HIE	X	219	18.876	43.038	40.683	0.00	0.00
ATOM	3325	HE2	HIE	X	219	18.082	43.662	40.695	0.00	0.00
ATOM	3326	CD2	HIE	X	219	19.132	41.927	41.412	0.00	0.00
ATOM	3327	HD2	HIE	X	219	18.486	41.588	42.209	0.00	0.00
ATOM	3328	C	HIE	X	219	23.106	39.582	43.042	0.00	0.00
ATOM	3329	O	HIE	X	219	22.846	39.016	44.127	0.00	0.00
ATOM	3330	N	ARG	X	220	24.079	39.187	42.253	0.00	0.00
ATOM	3331	H	ARG	X	220	24.046	39.748	41.414	0.00	0.00
ATOM	3332	CA	ARG	X	220	25.027	38.065	42.450	0.00	0.00
ATOM	3333	HA	ARG	X	220	25.157	37.707	43.472	0.00	0.00
ATOM	3334	CB	ARG	X	220	24.521	36.944	41.591	0.00	0.00

ATOM	3335	HB2	ARG	X	220	24.618	37.271	40.555	0.00	0.00
ATOM	3336	HB3	ARG	X	220	25.237	36.131	41.711	0.00	0.00
ATOM	3337	CG	ARG	X	220	23.162	36.333	41.893	0.00	0.00
ATOM	3338	HG2	ARG	X	220	23.411	35.778	42.797	0.00	0.00
ATOM	3339	HG3	ARG	X	220	22.387	37.021	42.231	0.00	0.00
ATOM	3340	CD	ARG	X	220	22.647	35.321	40.923	0.00	0.00
ATOM	3341	HD2	ARG	X	220	22.662	35.797	39.943	0.00	0.00
ATOM	3342	HD3	ARG	X	220	23.313	34.462	40.847	0.00	0.00
ATOM	3343	NE	ARG	X	220	21.255	34.876	41.197	0.00	0.00
ATOM	3344	HE	ARG	X	220	21.071	34.525	42.126	0.00	0.00
ATOM	3345	CZ	ARG	X	220	20.207	35.256	40.499	0.00	0.00
ATOM	3346	NH1	ARG	X	220	20.251	35.726	39.224	0.00	0.00
ATOM	3347	HH11	ARG	X	220	21.185	35.769	38.842	0.00	0.00
ATOM	3348	HH12	ARG	X	220	19.493	35.830	38.565	0.00	0.00
ATOM	3349	NH2	ARG	X	220	19.015	35.200	40.991	0.00	0.00
ATOM	3350	HH21	ARG	X	220	18.832	34.908	41.940	0.00	0.00
ATOM	3351	HH22	ARG	X	220	18.166	35.606	40.626	0.00	0.00
ATOM	3352	C	ARG	X	220	26.459	38.416	42.082	0.00	0.00
ATOM	3353	O	ARG	X	220	26.717	39.383	41.343	0.00	0.00
ATOM	3354	N	ALA	X	221	27.463	37.720	42.609	0.00	0.00
ATOM	3355	H	ALA	X	221	27.271	36.956	43.241	0.00	0.00
ATOM	3356	CA	ALA	X	221	28.908	38.038	42.411	0.00	0.00
ATOM	3357	HA	ALA	X	221	29.179	38.510	41.466	0.00	0.00
ATOM	3358	CB	ALA	X	221	29.229	38.780	43.644	0.00	0.00
ATOM	3359	HB1	ALA	X	221	30.223	39.147	43.388	0.00	0.00
ATOM	3360	HB2	ALA	X	221	29.269	38.083	44.482	0.00	0.00
ATOM	3361	HB3	ALA	X	221	28.582	39.634	43.842	0.00	0.00
ATOM	3362	C	ALA	X	221	29.694	36.738	42.342	0.00	0.00
ATOM	3363	O	ALA	X	221	29.335	35.745	43.009	0.00	0.00
ATOM	3364	N	VAL	X	222	30.706	36.661	41.464	0.00	0.00
ATOM	3365	H	VAL	X	222	30.836	37.425	40.816	0.00	0.00
ATOM	3366	CA	VAL	X	222	31.685	35.518	41.308	0.00	0.00
ATOM	3367	HA	VAL	X	222	31.465	34.708	42.004	0.00	0.00
ATOM	3368	CB	VAL	X	222	31.524	34.927	39.858	0.00	0.00
ATOM	3369	HB	VAL	X	222	31.701	35.755	39.171	0.00	0.00
ATOM	3370	CG1	VAL	X	222	32.558	33.911	39.497	0.00	0.00
ATOM	3371	HG11	VAL	X	222	32.246	33.005	40.017	0.00	0.00
ATOM	3372	HG12	VAL	X	222	32.413	33.740	38.430	0.00	0.00
ATOM	3373	HG13	VAL	X	222	33.576	34.299	39.495	0.00	0.00
ATOM	3374	CG2	VAL	X	222	30.052	34.381	39.605	0.00	0.00
ATOM	3375	HG21	VAL	X	222	30.056	33.825	38.667	0.00	0.00
ATOM	3376	HG22	VAL	X	222	29.504	35.322	39.548	0.00	0.00
ATOM	3377	HG23	VAL	X	222	29.615	33.783	40.405	0.00	0.00
ATOM	3378	C	VAL	X	222	33.191	35.977	41.612	0.00	0.00
ATOM	3379	O	VAL	X	222	33.509	37.036	41.010	0.00	0.00
ATOM	3380	N	LEU	X	223	33.939	35.305	42.476	0.00	0.00
ATOM	3381	H	LEU	X	223	33.430	34.617	43.012	0.00	0.00
ATOM	3382	CA	LEU	X	223	35.401	35.627	42.647	0.00	0.00
ATOM	3383	HA	LEU	X	223	35.633	36.532	42.086	0.00	0.00
ATOM	3384	CB	LEU	X	223	35.713	35.842	44.115	0.00	0.00
ATOM	3385	HB2	LEU	X	223	35.211	35.053	44.675	0.00	0.00
ATOM	3386	HB3	LEU	X	223	36.738	35.536	44.322	0.00	0.00
ATOM	3387	CG	LEU	X	223	35.331	37.243	44.775	0.00	0.00
ATOM	3388	HG	LEU	X	223	35.455	37.959	43.963	0.00	0.00
ATOM	3389	CD1	LEU	X	223	33.859	37.202	45.075	0.00	0.00
ATOM	3390	HD11	LEU	X	223	33.518	38.197	45.359	0.00	0.00
ATOM	3391	HD12	LEU	X	223	33.699	36.619	45.982	0.00	0.00
ATOM	3392	HD13	LEU	X	223	33.263	36.839	44.237	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.269	37.720	45.958	0.00	0.00
ATOM	3394	HD21	LEU	X	223	36.150	37.075	46.829	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.346	37.634	45.817	0.00	0.00
ATOM	3396	HD23	LEU	X	223	35.929	38.728	46.195	0.00	0.00
ATOM	3397	C	LEU	X	223	36.220	34.451	42.083	0.00	0.00
ATOM	3398	O	LEU	X	223	35.937	33.309	42.480	0.00	0.00
ATOM	3399	N	GLN	X	224	37.355	34.744	41.435	0.00	0.00
ATOM	3400	H	GLN	X	224	37.569	35.681	41.124	0.00	0.00
ATOM	3401	CA	GLN	X	224	38.277	33.731	41.106	0.00	0.00

ATOM	3402	HA	GLN	X	224	38.047	32.826	41.668	0.00	0.00
ATOM	3403	CB	GLN	X	224	38.144	33.442	39.566	0.00	0.00
ATOM	3404	HB2	GLN	X	224	38.174	34.378	39.008	0.00	0.00
ATOM	3405	HB3	GLN	X	224	38.891	32.730	39.217	0.00	0.00
ATOM	3406	CG	GLN	X	224	36.737	32.800	39.346	0.00	0.00
ATOM	3407	HG2	GLN	X	224	36.604	32.084	40.156	0.00	0.00
ATOM	3408	HG3	GLN	X	224	35.993	33.591	39.444	0.00	0.00
ATOM	3409	CD	GLN	X	224	36.357	32.095	38.007	0.00	0.00
ATOM	3410	OE1	GLN	X	224	35.325	32.377	37.461	0.00	0.00
ATOM	3411	NE2	GLN	X	224	37.274	31.391	37.370	0.00	0.00
ATOM	3412	HE21	GLN	X	224	36.897	30.924	36.558	0.00	0.00
ATOM	3413	HE22	GLN	X	224	38.103	31.124	37.881	0.00	0.00
ATOM	3414	C	GLN	X	224	39.716	34.198	41.494	0.00	0.00
ATOM	3415	O	GLN	X	224	40.026	35.301	41.203	0.00	0.00
ATOM	3416	N	SER	X	225	40.593	33.390	42.106	0.00	0.00
ATOM	3417	H	SER	X	225	40.173	32.631	42.624	0.00	0.00
ATOM	3418	CA	SER	X	225	42.035	33.425	42.280	0.00	0.00
ATOM	3419	HA	SER	X	225	42.237	32.610	42.975	0.00	0.00
ATOM	3420	CB	SER	X	225	42.727	33.140	40.870	0.00	0.00
ATOM	3421	HB2	SER	X	225	42.023	32.670	40.183	0.00	0.00
ATOM	3422	HB3	SER	X	225	42.728	34.160	40.486	0.00	0.00
ATOM	3423	OG	SER	X	225	43.949	32.509	40.777	0.00	0.00
ATOM	3424	HG	SER	X	225	43.995	31.920	41.534	0.00	0.00
ATOM	3425	C	SER	X	225	42.552	34.654	43.053	0.00	0.00
ATOM	3426	O	SER	X	225	43.760	34.950	43.173	0.00	0.00
ATOM	3427	N	GLY	X	226	41.613	35.490	43.530	0.00	0.00
ATOM	3428	H	GLY	X	226	40.651	35.189	43.460	0.00	0.00
ATOM	3429	CA	GLY	X	226	41.802	36.694	44.279	0.00	0.00
ATOM	3430	HA2	GLY	X	226	42.767	36.693	44.785	0.00	0.00
ATOM	3431	HA3	GLY	X	226	41.974	37.503	43.569	0.00	0.00
ATOM	3432	C	GLY	X	226	40.688	37.052	45.253	0.00	0.00
ATOM	3433	O	GLY	X	226	39.579	36.674	44.920	0.00	0.00
ATOM	3434	N	ALA	X	227	41.000	37.819	46.321	0.00	0.00
ATOM	3435	H	ALA	X	227	41.957	38.129	46.417	0.00	0.00
ATOM	3436	CA	ALA	X	227	40.067	38.228	47.181	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.064	38.182	46.757	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.006	37.278	48.374	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.592	37.705	49.288	0.00	0.00
ATOM	3440	HB2	ALA	X	227	40.993	36.837	48.512	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.308	36.491	48.090	0.00	0.00
ATOM	3442	C	ALA	X	227	40.276	39.651	47.701	0.00	0.00
ATOM	3443	O	ALA	X	227	41.461	40.061	47.738	0.00	0.00
ATOM	3444	N	PRO	X	228	39.254	40.439	48.098	0.00	0.00
ATOM	3445	CD	PRO	X	228	37.770	40.049	48.048	0.00	0.00
ATOM	3446	HD2	PRO	X	228	37.621	38.983	48.221	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.369	40.254	47.056	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.165	41.005	49.061	0.00	0.00
ATOM	3449	HG2	PRO	X	228	37.456	40.665	50.055	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.080	41.078	48.983	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.907	42.276	48.817	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.781	42.844	49.739	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.525	42.736	47.905	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.351	41.804	48.695	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.861	42.542	48.076	0.00	0.00
ATOM	3456	C	PRO	X	228	40.043	41.878	50.014	0.00	0.00
ATOM	3457	O	PRO	X	228	40.658	42.858	50.321	0.00	0.00
ATOM	3458	N	ASN	X	229	40.005	40.831	50.866	0.00	0.00
ATOM	3459	H	ASN	X	229	39.455	39.986	50.819	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.679	40.823	52.148	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.822	41.846	52.497	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.793	40.091	53.191	0.00	0.00
ATOM	3463	HB2	ASN	X	229	40.240	40.173	54.182	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.838	40.588	53.363	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.511	38.643	52.887	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.215	38.328	51.753	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.480	37.772	53.879	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.194	36.886	53.490	0.00	0.00

ATOM	3469	HD22	ASN	X	229	39.584	38.028	54.851	0.00	0.00
ATOM	3470	C	ASN	X	229	42.072	40.295	51.988	0.00	0.00
ATOM	3471	O	ASN	X	229	42.787	40.117	52.994	0.00	0.00
ATOM	3472	N	GLY	X	230	42.529	40.181	50.724	0.00	0.00
ATOM	3473	H	GLY	X	230	41.838	40.091	49.993	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.915	40.081	50.453	0.00	0.00
ATOM	3475	HA2	GLY	X	230	44.292	39.228	51.018	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.029	39.815	49.402	0.00	0.00
ATOM	3477	C	GLY	X	230	44.790	41.345	50.695	0.00	0.00
ATOM	3478	O	GLY	X	230	44.503	42.433	50.142	0.00	0.00
ATOM	3479	N	PRO	X	231	45.919	41.240	51.404	0.00	0.00
ATOM	3480	CD	PRO	X	231	46.691	40.068	51.747	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.877	39.461	50.861	0.00	0.00
ATOM	3482	HD3	PRO	X	231	46.235	39.440	52.512	0.00	0.00
ATOM	3483	CG	PRO	X	231	48.063	40.502	52.290	0.00	0.00
ATOM	3484	HG2	PRO	X	231	48.761	40.742	51.488	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.384	39.799	53.059	0.00	0.00
ATOM	3486	CB	PRO	X	231	47.714	41.832	52.929	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.517	42.570	52.956	0.00	0.00
ATOM	3488	HB3	PRO	X	231	47.221	41.749	53.897	0.00	0.00
ATOM	3489	CA	PRO	X	231	46.670	42.451	51.931	0.00	0.00
ATOM	3490	HA	PRO	X	231	45.949	43.040	52.498	0.00	0.00
ATOM	3491	C	PRO	X	231	47.379	43.298	50.871	0.00	0.00
ATOM	3492	O	PRO	X	231	47.465	44.527	51.081	0.00	0.00
ATOM	3493	N	TRP	X	232	47.772	42.680	49.735	0.00	0.00
ATOM	3494	H	TRP	X	232	47.673	41.684	49.603	0.00	0.00
ATOM	3495	CA	TRP	X	232	48.003	43.502	48.496	0.00	0.00
ATOM	3496	HA	TRP	X	232	48.839	44.150	48.760	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.391	42.559	47.365	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.608	43.132	46.464	0.00	0.00
ATOM	3499	HB3	TRP	X	232	49.347	42.125	47.657	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.490	41.404	47.112	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.543	40.291	47.872	0.00	0.00
ATOM	3502	HD1	TRP	X	232	48.240	40.018	48.650	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.400	39.435	47.564	0.00	0.00
ATOM	3504	HE1	TRP	X	232	46.426	38.456	47.810	0.00	0.00
ATOM	3505	CE2	TRP	X	232	45.643	39.916	46.567	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	44.570	39.359	45.765	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	44.276	38.347	46.001	0.00	0.00
ATOM	3508	CH2	TRP	X	232	44.065	40.148	44.732	0.00	0.00
ATOM	3509	HH2	TRP	X	232	43.353	39.779	44.009	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	44.559	41.434	44.508	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	44.099	42.078	43.773	0.00	0.00
ATOM	3512	CE3	TRP	X	232	45.667	41.865	45.220	0.00	0.00
ATOM	3513	HE3	TRP	X	232	45.967	42.889	45.051	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.302	41.174	46.261	0.00	0.00
ATOM	3515	C	TRP	X	232	46.798	44.396	47.885	0.00	0.00
ATOM	3516	O	TRP	X	232	47.029	45.491	47.370	0.00	0.00
ATOM	3517	N	ALA	X	233	45.567	43.913	47.934	0.00	0.00
ATOM	3518	H	ALA	X	233	45.403	43.073	48.471	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.419	44.529	47.311	0.00	0.00
ATOM	3520	HA	ALA	X	233	44.666	44.572	46.250	0.00	0.00
ATOM	3521	CB	ALA	X	233	43.159	43.596	47.431	0.00	0.00
ATOM	3522	HB1	ALA	X	233	43.375	42.555	47.191	0.00	0.00
ATOM	3523	HB2	ALA	X	233	42.421	44.087	46.796	0.00	0.00
ATOM	3524	HB3	ALA	X	233	42.819	43.620	48.467	0.00	0.00
ATOM	3525	C	ALA	X	233	43.999	45.901	47.792	0.00	0.00
ATOM	3526	O	ALA	X	233	43.327	46.660	47.130	0.00	0.00
ATOM	3527	N	THR	X	234	44.437	46.327	49.008	0.00	0.00
ATOM	3528	H	THR	X	234	45.099	45.635	49.327	0.00	0.00
ATOM	3529	CA	THR	X	234	44.154	47.582	49.732	0.00	0.00
ATOM	3530	HA	THR	X	234	43.833	48.276	48.956	0.00	0.00
ATOM	3531	CB	THR	X	234	43.017	47.473	50.713	0.00	0.00
ATOM	3532	HB	THR	X	234	42.815	48.447	51.159	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.659	47.107	50.091	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.242	47.984	49.595	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.861	46.743	50.738	0.00	0.00

ATOM	3536	HG23	THR	X	234	41.750	46.296	49.368	0.00	0.00
ATOM	3537	OG1	THR	X	234	43.231	46.617	51.734	0.00	0.00
ATOM	3538	HG1	THR	X	234	43.757	46.994	52.443	0.00	0.00
ATOM	3539	C	THR	X	234	45.406	48.122	50.438	0.00	0.00
ATOM	3540	O	THR	X	234	46.291	47.318	50.756	0.00	0.00
ATOM	3541	N	VAL	X	235	45.555	49.442	50.646	0.00	0.00
ATOM	3542	H	VAL	X	235	44.719	49.920	50.342	0.00	0.00
ATOM	3543	CA	VAL	X	235	46.723	50.112	51.365	0.00	0.00
ATOM	3544	HA	VAL	X	235	47.156	49.357	52.022	0.00	0.00
ATOM	3545	CB	VAL	X	235	47.857	50.365	50.371	0.00	0.00
ATOM	3546	HB	VAL	X	235	48.064	49.507	49.732	0.00	0.00
ATOM	3547	CG1	VAL	X	235	47.450	51.556	49.515	0.00	0.00
ATOM	3548	HG11	VAL	X	235	46.421	51.446	49.171	0.00	0.00
ATOM	3549	HG12	VAL	X	235	47.513	52.535	49.991	0.00	0.00
ATOM	3550	HG13	VAL	X	235	48.164	51.773	48.721	0.00	0.00
ATOM	3551	CG2	VAL	X	235	49.170	50.672	51.085	0.00	0.00
ATOM	3552	HG21	VAL	X	235	49.969	50.577	50.350	0.00	0.00
ATOM	3553	HG22	VAL	X	235	49.360	49.917	51.848	0.00	0.00
ATOM	3554	HG23	VAL	X	235	49.125	51.616	51.629	0.00	0.00
ATOM	3555	C	VAL	X	235	46.359	51.347	52.196	0.00	0.00
ATOM	3556	O	VAL	X	235	45.373	52.007	51.883	0.00	0.00
ATOM	3557	N	GLY	X	236	47.157	51.743	53.140	0.00	0.00
ATOM	3558	H	GLY	X	236	47.932	51.143	53.382	0.00	0.00
ATOM	3559	CA	GLY	X	236	47.074	52.919	53.997	0.00	0.00
ATOM	3560	HA2	GLY	X	236	46.040	53.053	54.315	0.00	0.00
ATOM	3561	HA3	GLY	X	236	47.789	52.777	54.806	0.00	0.00
ATOM	3562	C	GLY	X	236	47.518	54.132	53.281	0.00	0.00
ATOM	3563	O	GLY	X	236	48.375	54.110	52.372	0.00	0.00
ATOM	3564	N	MET	X	237	46.955	55.290	53.710	0.00	0.00
ATOM	3565	H	MET	X	237	46.423	55.301	54.569	0.00	0.00
ATOM	3566	CA	MET	X	237	47.189	56.587	53.228	0.00	0.00
ATOM	3567	HA	MET	X	237	46.839	56.799	52.218	0.00	0.00
ATOM	3568	CB	MET	X	237	46.602	57.609	54.270	0.00	0.00
ATOM	3569	HB2	MET	X	237	46.937	57.328	55.269	0.00	0.00
ATOM	3570	HB3	MET	X	237	46.996	58.617	54.139	0.00	0.00
ATOM	3571	CG	MET	X	237	45.129	57.703	54.158	0.00	0.00
ATOM	3572	HG2	MET	X	237	44.719	58.137	53.246	0.00	0.00
ATOM	3573	HG3	MET	X	237	44.714	56.703	54.284	0.00	0.00
ATOM	3574	SD	MET	X	237	44.382	58.641	55.455	0.00	0.00
ATOM	3575	CE	MET	X	237	44.970	60.170	54.966	0.00	0.00
ATOM	3576	HE1	MET	X	237	44.682	60.885	55.736	0.00	0.00
ATOM	3577	HE2	MET	X	237	46.058	60.242	54.971	0.00	0.00
ATOM	3578	HE3	MET	X	237	44.506	60.458	54.023	0.00	0.00
ATOM	3579	C	MET	X	237	48.714	56.956	53.080	0.00	0.00
ATOM	3580	O	MET	X	237	49.105	57.543	52.015	0.00	0.00
ATOM	3581	N	GLY	X	238	49.535	56.722	54.111	0.00	0.00
ATOM	3582	H	GLY	X	238	49.049	56.449	54.953	0.00	0.00
ATOM	3583	CA	GLY	X	238	50.918	57.145	54.216	0.00	0.00
ATOM	3584	HA2	GLY	X	238	51.014	58.227	54.126	0.00	0.00
ATOM	3585	HA3	GLY	X	238	51.412	56.778	55.116	0.00	0.00
ATOM	3586	C	GLY	X	238	51.684	56.491	53.083	0.00	0.00
ATOM	3587	O	GLY	X	238	52.440	57.187	52.397	0.00	0.00
ATOM	3588	N	GLU	X	239	51.384	55.232	52.712	0.00	0.00
ATOM	3589	H	GLU	X	239	50.782	54.688	53.314	0.00	0.00
ATOM	3590	CA	GLU	X	239	52.062	54.625	51.572	0.00	0.00
ATOM	3591	HA	GLU	X	239	53.130	54.810	51.687	0.00	0.00
ATOM	3592	CB	GLU	X	239	51.860	53.111	51.438	0.00	0.00
ATOM	3593	HB2	GLU	X	239	50.871	52.869	51.826	0.00	0.00
ATOM	3594	HB3	GLU	X	239	51.749	52.863	50.382	0.00	0.00
ATOM	3595	CG	GLU	X	239	52.813	52.207	52.121	0.00	0.00
ATOM	3596	HG2	GLU	X	239	52.911	52.479	53.172	0.00	0.00
ATOM	3597	HG3	GLU	X	239	52.426	51.188	52.095	0.00	0.00
ATOM	3598	CD	GLU	X	239	54.235	52.237	51.526	0.00	0.00
ATOM	3599	OE1	GLU	X	239	54.347	51.977	50.324	0.00	0.00
ATOM	3600	OE2	GLU	X	239	55.164	52.542	52.260	0.00	0.00
ATOM	3601	C	GLU	X	239	51.692	55.334	50.301	0.00	0.00
ATOM	3602	O	GLU	X	239	52.516	55.654	49.457	0.00	0.00

ATOM	3603	N	ALA	X	240	50.410	55.716	50.052	0.00	0.00
ATOM	3604	H	ALA	X	240	49.767	55.764	50.830	0.00	0.00
ATOM	3605	CA	ALA	X	240	49.971	56.167	48.760	0.00	0.00
ATOM	3606	HA	ALA	X	240	50.500	55.611	47.985	0.00	0.00
ATOM	3607	CB	ALA	X	240	48.487	55.917	48.648	0.00	0.00
ATOM	3608	HB1	ALA	X	240	48.149	56.303	47.686	0.00	0.00
ATOM	3609	HB2	ALA	X	240	48.003	56.378	49.509	0.00	0.00
ATOM	3610	HB3	ALA	X	240	48.316	54.844	48.732	0.00	0.00
ATOM	3611	C	ALA	X	240	50.386	57.673	48.638	0.00	0.00
ATOM	3612	O	ALA	X	240	50.727	58.059	47.491	0.00	0.00
ATOM	3613	N	ARG	X	241	50.518	58.410	49.679	0.00	0.00
ATOM	3614	H	ARG	X	241	50.236	58.005	50.560	0.00	0.00
ATOM	3615	CA	ARG	X	241	51.110	59.789	49.663	0.00	0.00
ATOM	3616	HA	ARG	X	241	50.629	60.331	48.849	0.00	0.00
ATOM	3617	CB	ARG	X	241	50.813	60.459	50.978	0.00	0.00
ATOM	3618	HB2	ARG	X	241	49.813	60.127	51.256	0.00	0.00
ATOM	3619	HB3	ARG	X	241	51.604	60.214	51.687	0.00	0.00
ATOM	3620	CG	ARG	X	241	50.805	61.998	50.894	0.00	0.00
ATOM	3621	HG2	ARG	X	241	51.817	62.306	50.629	0.00	0.00
ATOM	3622	HG3	ARG	X	241	49.996	62.315	50.236	0.00	0.00
ATOM	3623	CD	ARG	X	241	50.532	62.556	52.274	0.00	0.00
ATOM	3624	HD2	ARG	X	241	49.667	62.047	52.698	0.00	0.00
ATOM	3625	HD3	ARG	X	241	51.474	62.422	52.807	0.00	0.00
ATOM	3626	NE	ARG	X	241	50.329	63.963	52.072	0.00	0.00
ATOM	3627	HE	ARG	X	241	50.299	64.206	51.092	0.00	0.00
ATOM	3628	CZ	ARG	X	241	50.405	64.922	52.966	0.00	0.00
ATOM	3629	NH1	ARG	X	241	50.327	64.610	54.281	0.00	0.00
ATOM	3630	HH11	ARG	X	241	50.218	63.644	54.556	0.00	0.00
ATOM	3631	HH12	ARG	X	241	50.416	65.309	55.004	0.00	0.00
ATOM	3632	NH2	ARG	X	241	50.632	66.167	52.588	0.00	0.00
ATOM	3633	HH21	ARG	X	241	50.615	66.349	51.595	0.00	0.00
ATOM	3634	HH22	ARG	X	241	50.615	66.902	53.280	0.00	0.00
ATOM	3635	C	ARG	X	241	52.634	59.635	49.410	0.00	0.00
ATOM	3636	O	ARG	X	241	53.075	60.329	48.475	0.00	0.00
ATOM	3637	N	ARG	X	242	53.326	58.818	50.163	0.00	0.00
ATOM	3638	H	ARG	X	242	52.821	58.344	50.899	0.00	0.00
ATOM	3639	CA	ARG	X	242	54.724	58.526	49.906	0.00	0.00
ATOM	3640	HA	ARG	X	242	55.356	59.404	50.039	0.00	0.00
ATOM	3641	CB	ARG	X	242	55.218	57.385	50.809	0.00	0.00
ATOM	3642	HB2	ARG	X	242	54.962	57.616	51.843	0.00	0.00
ATOM	3643	HB3	ARG	X	242	54.724	56.446	50.559	0.00	0.00
ATOM	3644	CG	ARG	X	242	56.755	57.268	50.914	0.00	0.00
ATOM	3645	HG2	ARG	X	242	57.147	57.378	49.903	0.00	0.00
ATOM	3646	HG3	ARG	X	242	57.214	58.202	51.237	0.00	0.00
ATOM	3647	CD	ARG	X	242	57.307	56.080	51.744	0.00	0.00
ATOM	3648	HD2	ARG	X	242	58.394	56.141	51.691	0.00	0.00
ATOM	3649	HD3	ARG	X	242	57.032	56.175	52.794	0.00	0.00
ATOM	3650	NE	ARG	X	242	56.932	54.833	51.153	0.00	0.00
ATOM	3651	HE	ARG	X	242	56.291	54.198	51.609	0.00	0.00
ATOM	3652	CZ	ARG	X	242	57.233	54.422	49.881	0.00	0.00
ATOM	3653	NH1	ARG	X	242	58.053	55.098	49.139	0.00	0.00
ATOM	3654	HH11	ARG	X	242	58.529	55.944	49.418	0.00	0.00
ATOM	3655	HH12	ARG	X	242	58.109	54.844	48.163	0.00	0.00
ATOM	3656	NH2	ARG	X	242	56.553	53.443	49.243	0.00	0.00
ATOM	3657	HH21	ARG	X	242	55.864	52.918	49.761	0.00	0.00
ATOM	3658	HH22	ARG	X	242	56.717	53.274	48.260	0.00	0.00
ATOM	3659	C	ARG	X	242	54.955	58.203	48.382	0.00	0.00
ATOM	3660	O	ARG	X	242	55.847	58.808	47.802	0.00	0.00
ATOM	3661	N	ARG	X	243	54.228	57.287	47.747	0.00	0.00
ATOM	3662	H	ARG	X	243	53.556	56.742	48.269	0.00	0.00
ATOM	3663	CA	ARG	X	243	54.380	56.882	46.331	0.00	0.00
ATOM	3664	HA	ARG	X	243	55.457	56.772	46.199	0.00	0.00
ATOM	3665	CB	ARG	X	243	53.635	55.602	46.049	0.00	0.00
ATOM	3666	HB2	ARG	X	243	52.575	55.678	46.293	0.00	0.00
ATOM	3667	HB3	ARG	X	243	53.752	55.359	44.993	0.00	0.00
ATOM	3668	CG	ARG	X	243	54.095	54.466	46.845	0.00	0.00
ATOM	3669	HG2	ARG	X	243	55.091	54.202	46.490	0.00	0.00

ATOM	3670	HG3	ARG	X	243	54.294	54.637	47.903	0.00	0.00
ATOM	3671	CD	ARG	X	243	53.156	53.226	46.714	0.00	0.00
ATOM	3672	HD2	ARG	X	243	52.138	53.605	46.806	0.00	0.00
ATOM	3673	HD3	ARG	X	243	53.393	52.725	45.776	0.00	0.00
ATOM	3674	NE	ARG	X	243	53.284	52.260	47.798	0.00	0.00
ATOM	3675	HE	ARG	X	243	53.548	52.554	48.728	0.00	0.00
ATOM	3676	CZ	ARG	X	243	52.848	51.035	47.752	0.00	0.00
ATOM	3677	NH1	ARG	X	243	52.293	50.508	46.679	0.00	0.00
ATOM	3678	HH11	ARG	X	243	52.271	51.021	45.809	0.00	0.00
ATOM	3679	HH12	ARG	X	243	52.092	49.520	46.741	0.00	0.00
ATOM	3680	NH2	ARG	X	243	53.012	50.220	48.823	0.00	0.00
ATOM	3681	HH21	ARG	X	243	53.573	50.608	49.567	0.00	0.00
ATOM	3682	HH22	ARG	X	243	52.594	49.301	48.851	0.00	0.00
ATOM	3683	C	ARG	X	243	53.978	57.998	45.304	0.00	0.00
ATOM	3684	O	ARG	X	243	54.750	58.231	44.400	0.00	0.00
ATOM	3685	N	ALA	X	244	52.865	58.677	45.623	0.00	0.00
ATOM	3686	H	ALA	X	244	52.297	58.339	46.386	0.00	0.00
ATOM	3687	CA	ALA	X	244	52.542	59.991	44.984	0.00	0.00
ATOM	3688	HA	ALA	X	244	52.296	59.724	43.956	0.00	0.00
ATOM	3689	CB	ALA	X	244	51.343	60.626	45.666	0.00	0.00
ATOM	3690	HB1	ALA	X	244	51.057	61.493	45.070	0.00	0.00
ATOM	3691	HB2	ALA	X	244	51.528	60.970	46.683	0.00	0.00
ATOM	3692	HB3	ALA	X	244	50.526	59.925	45.831	0.00	0.00
ATOM	3693	C	ALA	X	244	53.717	61.030	44.975	0.00	0.00
ATOM	3694	O	ALA	X	244	54.194	61.416	43.859	0.00	0.00
ATOM	3695	N	THR	X	245	54.243	61.407	46.078	0.00	0.00
ATOM	3696	H	THR	X	245	53.700	61.059	46.856	0.00	0.00
ATOM	3697	CA	THR	X	245	55.364	62.325	46.298	0.00	0.00
ATOM	3698	HA	THR	X	245	55.170	63.322	45.903	0.00	0.00
ATOM	3699	CB	THR	X	245	55.704	62.463	47.867	0.00	0.00
ATOM	3700	HB	THR	X	245	56.062	61.517	48.274	0.00	0.00
ATOM	3701	CG2	THR	X	245	56.719	63.585	48.149	0.00	0.00
ATOM	3702	HG21	THR	X	245	57.367	63.815	47.304	0.00	0.00
ATOM	3703	HG22	THR	X	245	57.331	63.312	49.010	0.00	0.00
ATOM	3704	HG23	THR	X	245	56.143	64.433	48.521	0.00	0.00
ATOM	3705	OG1	THR	X	245	54.558	62.917	48.507	0.00	0.00
ATOM	3706	HG1	THR	X	245	54.419	62.342	49.263	0.00	0.00
ATOM	3707	C	THR	X	245	56.609	61.782	45.553	0.00	0.00
ATOM	3708	O	THR	X	245	57.317	62.617	45.072	0.00	0.00
ATOM	3709	N	GLN	X	246	56.902	60.532	45.574	0.00	0.00
ATOM	3710	H	GLN	X	246	56.398	59.944	46.223	0.00	0.00
ATOM	3711	CA	GLN	X	246	58.096	59.880	45.049	0.00	0.00
ATOM	3712	HA	GLN	X	246	58.960	60.484	45.326	0.00	0.00
ATOM	3713	CB	GLN	X	246	58.138	58.486	45.704	0.00	0.00
ATOM	3714	HB2	GLN	X	246	58.156	58.604	46.788	0.00	0.00
ATOM	3715	HB3	GLN	X	246	57.337	57.871	45.294	0.00	0.00
ATOM	3716	CG	GLN	X	246	59.452	57.810	45.373	0.00	0.00
ATOM	3717	HG2	GLN	X	246	59.399	57.549	44.316	0.00	0.00
ATOM	3718	HG3	GLN	X	246	60.238	58.546	45.543	0.00	0.00
ATOM	3719	CD	GLN	X	246	59.796	56.493	46.150	0.00	0.00
ATOM	3720	OE1	GLN	X	246	58.918	55.681	46.353	0.00	0.00
ATOM	3721	NE2	GLN	X	246	61.021	56.238	46.561	0.00	0.00
ATOM	3722	HE21	GLN	X	246	61.144	55.293	46.894	0.00	0.00
ATOM	3723	HE22	GLN	X	246	61.789	56.875	46.404	0.00	0.00
ATOM	3724	C	GLN	X	246	58.075	59.818	43.512	0.00	0.00
ATOM	3725	O	GLN	X	246	59.074	60.164	42.871	0.00	0.00
ATOM	3726	N	LEU	X	247	56.879	59.605	42.954	0.00	0.00
ATOM	3727	H	LEU	X	247	56.159	59.378	43.625	0.00	0.00
ATOM	3728	CA	LEU	X	247	56.497	59.792	41.545	0.00	0.00
ATOM	3729	HA	LEU	X	247	57.184	59.248	40.897	0.00	0.00
ATOM	3730	CB	LEU	X	247	55.045	59.353	41.295	0.00	0.00
ATOM	3731	HB2	LEU	X	247	55.171	58.348	41.698	0.00	0.00
ATOM	3732	HB3	LEU	X	247	54.502	60.061	41.921	0.00	0.00
ATOM	3733	CG	LEU	X	247	54.413	59.329	39.860	0.00	0.00
ATOM	3734	HG	LEU	X	247	54.231	60.373	39.602	0.00	0.00
ATOM	3735	CD1	LEU	X	247	55.254	58.705	38.819	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.431	57.672	39.118	0.00	0.00

ATOM	3737	HD12	LEU	X	247	56.150	59.299	38.640	0.00	0.00
ATOM	3738	HD13	LEU	X	247	54.770	58.598	37.848	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.019	58.724	39.933	0.00	0.00
ATOM	3740	HD21	LEU	X	247	52.563	58.676	38.945	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.171	57.788	40.471	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.323	59.362	40.479	0.00	0.00
ATOM	3743	C	LEU	X	247	56.695	61.218	41.160	0.00	0.00
ATOM	3744	O	LEU	X	247	57.468	61.609	40.283	0.00	0.00
ATOM	3745	N	ALA	X	248	56.096	62.138	41.944	0.00	0.00
ATOM	3746	H	ALA	X	248	55.695	61.763	42.791	0.00	0.00
ATOM	3747	CA	ALA	X	248	56.133	63.612	41.739	0.00	0.00
ATOM	3748	HA	ALA	X	248	55.799	63.764	40.712	0.00	0.00
ATOM	3749	CB	ALA	X	248	55.157	64.314	42.685	0.00	0.00
ATOM	3750	HB1	ALA	X	248	54.165	63.866	42.621	0.00	0.00
ATOM	3751	HB2	ALA	X	248	55.054	65.376	42.465	0.00	0.00
ATOM	3752	HB3	ALA	X	248	55.492	64.254	43.720	0.00	0.00
ATOM	3753	C	ALA	X	248	57.603	64.160	41.801	0.00	0.00
ATOM	3754	O	ALA	X	248	58.041	64.790	40.907	0.00	0.00
ATOM	3755	N	HIE	X	249	58.335	63.874	42.839	0.00	0.00
ATOM	3756	H	HIE	X	249	57.997	63.314	43.608	0.00	0.00
ATOM	3757	CA	HIE	X	249	59.836	64.031	42.841	0.00	0.00
ATOM	3758	HA	HIE	X	249	60.007	65.102	42.951	0.00	0.00
ATOM	3759	CB	HIE	X	249	60.261	63.367	44.209	0.00	0.00
ATOM	3760	HB2	HIE	X	249	59.804	63.868	45.063	0.00	0.00
ATOM	3761	HB3	HIE	X	249	59.926	62.332	44.267	0.00	0.00
ATOM	3762	CG	HIE	X	249	61.735	63.523	44.412	0.00	0.00
ATOM	3763	ND1	HIE	X	249	62.740	62.742	43.778	0.00	0.00
ATOM	3764	CE1	HIE	X	249	63.896	63.208	44.278	0.00	0.00
ATOM	3765	HE1	HIE	X	249	64.891	62.932	43.963	0.00	0.00
ATOM	3766	NE2	HIE	X	249	63.752	64.152	45.228	0.00	0.00
ATOM	3767	HE2	HIE	X	249	64.515	64.647	45.666	0.00	0.00
ATOM	3768	CD2	HIE	X	249	62.366	64.425	45.220	0.00	0.00
ATOM	3769	HD2	HIE	X	249	61.993	65.206	45.867	0.00	0.00
ATOM	3770	C	HIE	X	249	60.560	63.630	41.545	0.00	0.00
ATOM	3771	O	HIE	X	249	61.500	64.313	41.109	0.00	0.00
ATOM	3772	N	LEU	X	250	60.194	62.446	40.995	0.00	0.00
ATOM	3773	H	LEU	X	250	59.565	61.819	41.476	0.00	0.00
ATOM	3774	CA	LEU	X	250	60.793	61.892	39.756	0.00	0.00
ATOM	3775	HA	LEU	X	250	61.880	61.971	39.777	0.00	0.00
ATOM	3776	CB	LEU	X	250	60.466	60.390	39.754	0.00	0.00
ATOM	3777	HB2	LEU	X	250	59.596	60.343	40.410	0.00	0.00
ATOM	3778	HB3	LEU	X	250	60.181	60.068	38.753	0.00	0.00
ATOM	3779	CG	LEU	X	250	61.570	59.441	40.287	0.00	0.00
ATOM	3780	HG	LEU	X	250	62.029	59.929	41.147	0.00	0.00
ATOM	3781	CD1	LEU	X	250	61.071	57.999	40.652	0.00	0.00
ATOM	3782	HD11	LEU	X	250	60.504	58.013	41.583	0.00	0.00
ATOM	3783	HD12	LEU	X	250	61.937	57.419	40.969	0.00	0.00
ATOM	3784	HD13	LEU	X	250	60.546	57.575	39.796	0.00	0.00
ATOM	3785	CD2	LEU	X	250	62.663	59.298	39.213	0.00	0.00
ATOM	3786	HD21	LEU	X	250	62.224	59.054	38.246	0.00	0.00
ATOM	3787	HD22	LEU	X	250	63.426	60.077	39.230	0.00	0.00
ATOM	3788	HD23	LEU	X	250	63.179	58.367	39.447	0.00	0.00
ATOM	3789	C	LEU	X	250	60.369	62.651	38.434	0.00	0.00
ATOM	3790	O	LEU	X	250	61.268	62.867	37.573	0.00	0.00
ATOM	3791	N	VAL	X	251	59.113	62.962	38.343	0.00	0.00
ATOM	3792	H	VAL	X	251	58.552	62.612	39.106	0.00	0.00
ATOM	3793	CA	VAL	X	251	58.433	63.609	37.207	0.00	0.00
ATOM	3794	HA	VAL	X	251	59.063	63.416	36.338	0.00	0.00
ATOM	3795	CB	VAL	X	251	57.057	62.942	37.000	0.00	0.00
ATOM	3796	HB	VAL	X	251	57.213	61.935	37.388	0.00	0.00
ATOM	3797	CG1	VAL	X	251	55.938	63.597	37.833	0.00	0.00
ATOM	3798	HG11	VAL	X	251	55.025	63.003	37.876	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.416	63.738	38.802	0.00	0.00
ATOM	3800	HG13	VAL	X	251	55.727	64.576	37.403	0.00	0.00
ATOM	3801	CG2	VAL	X	251	56.457	62.931	35.506	0.00	0.00
ATOM	3802	HG21	VAL	X	251	55.428	62.584	35.405	0.00	0.00
ATOM	3803	HG22	VAL	X	251	57.087	62.317	34.862	0.00	0.00

ATOM	3804	HG23	VAL	X	251	56.578	63.951	35.143	0.00	0.00
ATOM	3805	C	VAL	X	251	58.404	65.165	37.263	0.00	0.00
ATOM	3806	O	VAL	X	251	58.003	65.771	36.278	0.00	0.00
ATOM	3807	N	GLY	X	252	58.829	65.755	38.382	0.00	0.00
ATOM	3808	H	GLY	X	252	58.899	65.125	39.168	0.00	0.00
ATOM	3809	CA	GLY	X	252	59.258	67.110	38.482	0.00	0.00
ATOM	3810	HA2	GLY	X	252	60.015	67.318	39.238	0.00	0.00
ATOM	3811	HA3	GLY	X	252	59.635	67.369	37.492	0.00	0.00
ATOM	3812	C	GLY	X	252	58.097	68.029	38.890	0.00	0.00
ATOM	3813	O	GLY	X	252	57.894	69.038	38.214	0.00	0.00
ATOM	3814	N	CYX	X	253	57.356	67.678	39.943	0.00	0.00
ATOM	3815	H	CYX	X	253	57.557	66.773	40.345	0.00	0.00
ATOM	3816	CA	CYX	X	253	56.323	68.575	40.383	0.00	0.00
ATOM	3817	HA	CYX	X	253	56.406	69.527	39.859	0.00	0.00
ATOM	3818	CB	CYX	X	253	54.986	67.925	39.990	0.00	0.00
ATOM	3819	HB2	CYX	X	253	54.783	66.901	40.301	0.00	0.00
ATOM	3820	HB3	CYX	X	253	54.222	68.645	40.283	0.00	0.00
ATOM	3821	SG	CYX	X	253	54.671	67.851	38.190	0.00	0.00
ATOM	3822	C	CYX	X	253	56.379	68.952	41.943	0.00	0.00
ATOM	3823	O	CYX	X	253	56.898	68.144	42.672	0.00	0.00
ATOM	3824	N	PRO	X	254	55.821	70.070	42.399	0.00	0.00
ATOM	3825	CD	PRO	X	254	56.102	70.452	43.744	0.00	0.00
ATOM	3826	HD2	PRO	X	254	56.970	71.110	43.780	0.00	0.00
ATOM	3827	HD3	PRO	X	254	56.246	69.620	44.433	0.00	0.00
ATOM	3828	CG	PRO	X	254	54.865	71.323	44.138	0.00	0.00
ATOM	3829	HG2	PRO	X	254	55.085	72.137	44.829	0.00	0.00
ATOM	3830	HG3	PRO	X	254	54.041	70.719	44.518	0.00	0.00
ATOM	3831	CB	PRO	X	254	54.482	71.952	42.819	0.00	0.00
ATOM	3832	HB2	PRO	X	254	55.070	72.868	42.752	0.00	0.00
ATOM	3833	HB3	PRO	X	254	53.415	72.137	42.696	0.00	0.00
ATOM	3834	CA	PRO	X	254	55.019	71.041	41.731	0.00	0.00
ATOM	3835	HA	PRO	X	254	54.305	70.589	41.043	0.00	0.00
ATOM	3836	C	PRO	X	254	55.878	71.913	40.723	0.00	0.00
ATOM	3837	O	PRO	X	254	57.074	71.577	40.604	0.00	0.00
ATOM	3838	N	PRO	X	255	55.381	72.975	40.116	0.00	0.00
ATOM	3839	CD	PRO	X	255	54.056	73.399	40.084	0.00	0.00
ATOM	3840	HD2	PRO	X	255	53.858	74.049	40.936	0.00	0.00
ATOM	3841	HD3	PRO	X	255	53.348	72.574	39.994	0.00	0.00
ATOM	3842	CG	PRO	X	255	53.889	74.231	38.855	0.00	0.00
ATOM	3843	HG2	PRO	X	255	53.067	74.946	38.895	0.00	0.00
ATOM	3844	HG3	PRO	X	255	53.735	73.481	38.079	0.00	0.00
ATOM	3845	CB	PRO	X	255	55.256	74.873	38.749	0.00	0.00
ATOM	3846	HB2	PRO	X	255	55.143	75.719	39.426	0.00	0.00
ATOM	3847	HB3	PRO	X	255	55.443	75.185	37.721	0.00	0.00
ATOM	3848	CA	PRO	X	255	56.187	73.844	39.236	0.00	0.00
ATOM	3849	HA	PRO	X	255	56.587	73.240	38.421	0.00	0.00
ATOM	3850	C	PRO	X	255	57.319	74.529	40.092	0.00	0.00
ATOM	3851	O	PRO	X	255	57.072	75.228	41.082	0.00	0.00
ATOM	3852	N	GLY	X	256	58.570	74.508	39.583	0.00	0.00
ATOM	3853	H	GLY	X	256	58.688	73.992	38.723	0.00	0.00
ATOM	3854	CA	GLY	X	256	59.744	75.132	40.170	0.00	0.00
ATOM	3855	HA2	GLY	X	256	60.445	75.490	39.416	0.00	0.00
ATOM	3856	HA3	GLY	X	256	59.407	76.049	40.653	0.00	0.00
ATOM	3857	C	GLY	X	256	60.560	74.394	41.159	0.00	0.00
ATOM	3858	O	GLY	X	256	61.646	74.978	41.529	0.00	0.00
ATOM	3859	N	GLY	X	257	60.174	73.258	41.681	0.00	0.00
ATOM	3860	H	GLY	X	257	59.220	72.997	41.477	0.00	0.00
ATOM	3861	CA	GLY	X	257	60.929	72.360	42.561	0.00	0.00
ATOM	3862	HA2	GLY	X	257	61.691	71.888	41.940	0.00	0.00
ATOM	3863	HA3	GLY	X	257	61.382	72.865	43.414	0.00	0.00
ATOM	3864	C	GLY	X	257	60.212	71.041	42.880	0.00	0.00
ATOM	3865	O	GLY	X	257	59.315	70.633	42.145	0.00	0.00
ATOM	3866	N	THR	X	258	60.590	70.463	44.025	0.00	0.00
ATOM	3867	H	THR	X	258	61.315	70.862	44.604	0.00	0.00
ATOM	3868	CA	THR	X	258	59.968	69.196	44.513	0.00	0.00
ATOM	3869	HA	THR	X	258	59.074	68.957	43.937	0.00	0.00
ATOM	3870	CB	THR	X	258	60.919	68.009	44.244	0.00	0.00

ATOM	3871	HB	THR	X	258	60.639	67.122	44.812	0.00	0.00
ATOM	3872	CG2	THR	X	258	60.856	67.517	42.783	0.00	0.00
ATOM	3873	HG21	THR	X	258	61.627	66.757	42.655	0.00	0.00
ATOM	3874	HG22	THR	X	258	61.130	68.343	42.126	0.00	0.00
ATOM	3875	HG23	THR	X	258	59.862	67.204	42.461	0.00	0.00
ATOM	3876	OG1	THR	X	258	62.253	68.317	44.532	0.00	0.00
ATOM	3877	HG1	THR	X	258	62.248	68.417	45.487	0.00	0.00
ATOM	3878	C	THR	X	258	59.443	69.407	45.904	0.00	0.00
ATOM	3879	O	THR	X	258	59.968	70.088	46.690	0.00	0.00
ATOM	3880	N	GLY	X	259	58.316	68.694	46.277	0.00	0.00
ATOM	3881	H	GLY	X	259	58.067	68.004	45.583	0.00	0.00
ATOM	3882	CA	GLY	X	259	57.524	68.886	47.522	0.00	0.00
ATOM	3883	HA2	GLY	X	259	56.772	68.099	47.573	0.00	0.00
ATOM	3884	HA3	GLY	X	259	58.127	68.974	48.426	0.00	0.00
ATOM	3885	C	GLY	X	259	56.760	70.162	47.591	0.00	0.00
ATOM	3886	O	GLY	X	259	56.767	70.936	46.655	0.00	0.00
ATOM	3887	N	GLY	X	260	56.125	70.410	48.797	0.00	0.00
ATOM	3888	H	GLY	X	260	56.252	69.803	49.594	0.00	0.00
ATOM	3889	CA	GLY	X	260	55.427	71.646	49.089	0.00	0.00
ATOM	3890	HA2	GLY	X	260	55.685	71.884	50.121	0.00	0.00
ATOM	3891	HA3	GLY	X	260	55.856	72.459	48.503	0.00	0.00
ATOM	3892	C	GLY	X	260	53.883	71.586	49.164	0.00	0.00
ATOM	3893	O	GLY	X	260	53.325	70.536	49.495	0.00	0.00
ATOM	3894	N	ASN	X	261	53.195	72.621	48.703	0.00	0.00
ATOM	3895	H	ASN	X	261	53.749	73.389	48.352	0.00	0.00
ATOM	3896	CA	ASN	X	261	51.729	72.686	48.556	0.00	0.00
ATOM	3897	HA	ASN	X	261	51.315	72.719	49.564	0.00	0.00
ATOM	3898	CB	ASN	X	261	51.404	74.036	47.908	0.00	0.00
ATOM	3899	HB2	ASN	X	261	51.785	74.844	48.533	0.00	0.00
ATOM	3900	HB3	ASN	X	261	51.791	74.126	46.893	0.00	0.00
ATOM	3901	CG	ASN	X	261	49.880	74.135	47.906	0.00	0.00
ATOM	3902	OD1	ASN	X	261	49.201	73.572	47.038	0.00	0.00
ATOM	3903	ND2	ASN	X	261	49.363	74.918	48.813	0.00	0.00
ATOM	3904	HD21	ASN	X	261	48.436	75.263	48.609	0.00	0.00
ATOM	3905	HD22	ASN	X	261	49.955	75.430	49.451	0.00	0.00
ATOM	3906	C	ASN	X	261	51.202	71.446	47.691	0.00	0.00
ATOM	3907	O	ASN	X	261	51.631	71.132	46.587	0.00	0.00
ATOM	3908	N	ASP	X	262	50.125	70.837	48.205	0.00	0.00
ATOM	3909	H	ASP	X	262	49.793	71.131	49.112	0.00	0.00
ATOM	3910	CA	ASP	X	262	49.549	69.618	47.680	0.00	0.00
ATOM	3911	HA	ASP	X	262	50.245	68.822	47.417	0.00	0.00
ATOM	3912	CB	ASP	X	262	48.703	68.858	48.784	0.00	0.00
ATOM	3913	HB2	ASP	X	262	47.943	69.567	49.111	0.00	0.00
ATOM	3914	HB3	ASP	X	262	48.253	67.989	48.303	0.00	0.00
ATOM	3915	CG	ASP	X	262	49.568	68.499	49.993	0.00	0.00
ATOM	3916	OD1	ASP	X	262	49.458	69.252	50.998	0.00	0.00
ATOM	3917	OD2	ASP	X	262	50.356	67.535	49.948	0.00	0.00
ATOM	3918	C	ASP	X	262	48.755	69.852	46.360	0.00	0.00
ATOM	3919	O	ASP	X	262	48.903	69.092	45.356	0.00	0.00
ATOM	3920	N	THR	X	263	47.950	70.930	46.252	0.00	0.00
ATOM	3921	H	THR	X	263	47.910	71.508	47.079	0.00	0.00
ATOM	3922	CA	THR	X	263	47.053	71.236	45.118	0.00	0.00
ATOM	3923	HA	THR	X	263	46.546	70.349	44.739	0.00	0.00
ATOM	3924	CB	THR	X	263	46.001	72.234	45.593	0.00	0.00
ATOM	3925	HB	THR	X	263	46.455	73.156	45.955	0.00	0.00
ATOM	3926	CG2	THR	X	263	44.976	72.608	44.510	0.00	0.00
ATOM	3927	HG21	THR	X	263	44.258	71.813	44.304	0.00	0.00
ATOM	3928	HG22	THR	X	263	45.464	72.868	43.571	0.00	0.00
ATOM	3929	HG23	THR	X	263	44.380	73.444	44.877	0.00	0.00
ATOM	3930	OG1	THR	X	263	45.365	71.732	46.697	0.00	0.00
ATOM	3931	HG1	THR	X	263	45.505	72.311	47.449	0.00	0.00
ATOM	3932	C	THR	X	263	47.915	71.761	43.928	0.00	0.00
ATOM	3933	O	THR	X	263	47.615	71.481	42.764	0.00	0.00
ATOM	3934	N	GLU	X	264	49.086	72.379	44.193	0.00	0.00
ATOM	3935	H	GLU	X	264	49.387	72.561	45.140	0.00	0.00
ATOM	3936	CA	GLU	X	264	49.900	72.854	43.132	0.00	0.00
ATOM	3937	HA	GLU	X	264	49.292	73.151	42.278	0.00	0.00

ATOM	3938	CB	GLU	X	264	50.847	74.040	43.593	0.00	0.00
ATOM	3939	HB2	GLU	X	264	51.517	73.631	44.348	0.00	0.00
ATOM	3940	HB3	GLU	X	264	51.533	74.267	42.777	0.00	0.00
ATOM	3941	CG	GLU	X	264	50.132	75.233	44.148	0.00	0.00
ATOM	3942	HG2	GLU	X	264	49.373	74.952	44.877	0.00	0.00
ATOM	3943	HG3	GLU	X	264	50.791	75.914	44.686	0.00	0.00
ATOM	3944	CD	GLU	X	264	49.530	76.044	43.039	0.00	0.00
ATOM	3945	OE1	GLU	X	264	48.282	76.070	42.927	0.00	0.00
ATOM	3946	OE2	GLU	X	264	50.244	76.771	42.310	0.00	0.00
ATOM	3947	C	GLU	X	264	50.838	71.697	42.663	0.00	0.00
ATOM	3948	O	GLU	X	264	51.151	71.618	41.484	0.00	0.00
ATOM	3949	N	LEU	X	265	51.101	70.685	43.516	0.00	0.00
ATOM	3950	H	LEU	X	265	50.950	70.793	44.509	0.00	0.00
ATOM	3951	CA	LEU	X	265	51.631	69.443	43.011	0.00	0.00
ATOM	3952	HA	LEU	X	265	52.550	69.646	42.462	0.00	0.00
ATOM	3953	CB	LEU	X	265	51.905	68.582	44.264	0.00	0.00
ATOM	3954	HB2	LEU	X	265	52.453	69.201	44.975	0.00	0.00
ATOM	3955	HB3	LEU	X	265	51.002	68.298	44.804	0.00	0.00
ATOM	3956	CG	LEU	X	265	52.808	67.321	44.014	0.00	0.00
ATOM	3957	HG	LEU	X	265	53.664	67.609	43.405	0.00	0.00
ATOM	3958	CD1	LEU	X	265	53.315	66.936	45.396	0.00	0.00
ATOM	3959	HD11	LEU	X	265	52.590	66.888	46.209	0.00	0.00
ATOM	3960	HD12	LEU	X	265	53.999	67.662	45.833	0.00	0.00
ATOM	3961	HD13	LEU	X	265	53.793	65.956	45.362	0.00	0.00
ATOM	3962	CD2	LEU	X	265	52.132	66.137	43.303	0.00	0.00
ATOM	3963	HD21	LEU	X	265	52.159	65.203	43.864	0.00	0.00
ATOM	3964	HD22	LEU	X	265	51.055	66.288	43.232	0.00	0.00
ATOM	3965	HD23	LEU	X	265	52.633	66.073	42.337	0.00	0.00
ATOM	3966	C	LEU	X	265	50.742	68.726	42.032	0.00	0.00
ATOM	3967	O	LEU	X	265	51.164	68.503	40.897	0.00	0.00
ATOM	3968	N	VAL	X	266	49.483	68.338	42.385	0.00	0.00
ATOM	3969	H	VAL	X	266	49.284	68.578	43.346	0.00	0.00
ATOM	3970	CA	VAL	X	266	48.521	67.588	41.543	0.00	0.00
ATOM	3971	HA	VAL	X	266	48.993	66.612	41.427	0.00	0.00
ATOM	3972	CB	VAL	X	266	47.201	67.341	42.277	0.00	0.00
ATOM	3973	HB	VAL	X	266	46.856	68.218	42.825	0.00	0.00
ATOM	3974	CG1	VAL	X	266	46.116	66.782	41.337	0.00	0.00
ATOM	3975	HG11	VAL	X	266	45.821	67.535	40.607	0.00	0.00
ATOM	3976	HG12	VAL	X	266	46.519	65.950	40.760	0.00	0.00
ATOM	3977	HG13	VAL	X	266	45.285	66.370	41.909	0.00	0.00
ATOM	3978	CG2	VAL	X	266	47.446	66.248	43.347	0.00	0.00
ATOM	3979	HG21	VAL	X	266	47.843	65.316	42.946	0.00	0.00
ATOM	3980	HG22	VAL	X	266	46.598	66.106	44.017	0.00	0.00
ATOM	3981	HG23	VAL	X	266	48.181	66.734	43.988	0.00	0.00
ATOM	3982	C	VAL	X	266	48.403	68.322	40.246	0.00	0.00
ATOM	3983	O	VAL	X	266	48.526	67.627	39.217	0.00	0.00
ATOM	3984	N	ALA	X	267	48.035	69.614	40.281	0.00	0.00
ATOM	3985	H	ALA	X	267	48.098	70.090	41.170	0.00	0.00
ATOM	3986	CA	ALA	X	267	47.899	70.419	39.093	0.00	0.00
ATOM	3987	HA	ALA	X	267	47.026	70.102	38.522	0.00	0.00
ATOM	3988	CB	ALA	X	267	47.596	71.770	39.662	0.00	0.00
ATOM	3989	HB1	ALA	X	267	46.710	71.634	40.283	0.00	0.00
ATOM	3990	HB2	ALA	X	267	47.727	72.430	38.805	0.00	0.00
ATOM	3991	HB3	ALA	X	267	48.470	71.922	40.295	0.00	0.00
ATOM	3992	C	ALA	X	267	49.121	70.328	38.112	0.00	0.00
ATOM	3993	O	ALA	X	267	48.888	70.152	36.960	0.00	0.00
ATOM	3994	N	CYX	X	268	50.390	70.344	38.564	0.00	0.00
ATOM	3995	H	CYX	X	268	50.513	70.328	39.566	0.00	0.00
ATOM	3996	CA	CYX	X	268	51.520	69.996	37.649	0.00	0.00
ATOM	3997	HA	CYX	X	268	51.423	70.595	36.744	0.00	0.00
ATOM	3998	CB	CYX	X	268	52.772	70.384	38.446	0.00	0.00
ATOM	3999	HB2	CYX	X	268	52.853	71.467	38.546	0.00	0.00
ATOM	4000	HB3	CYX	X	268	52.671	70.022	39.469	0.00	0.00
ATOM	4001	SG	CYX	X	268	54.282	69.796	37.654	0.00	0.00
ATOM	4002	C	CYX	X	268	51.466	68.516	37.232	0.00	0.00
ATOM	4003	O	CYX	X	268	51.831	68.090	36.141	0.00	0.00
ATOM	4004	N	LEU	X	269	51.209	67.606	38.165	0.00	0.00

ATOM	4005	H	LEU	X	269	50.903	67.944	39.066	0.00	0.00
ATOM	4006	CA	LEU	X	269	51.085	66.139	37.894	0.00	0.00
ATOM	4007	HA	LEU	X	269	52.027	65.854	37.426	0.00	0.00
ATOM	4008	CB	LEU	X	269	50.874	65.403	39.248	0.00	0.00
ATOM	4009	HB2	LEU	X	269	51.314	65.985	40.058	0.00	0.00
ATOM	4010	HB3	LEU	X	269	49.804	65.423	39.457	0.00	0.00
ATOM	4011	CG	LEU	X	269	51.306	63.940	39.412	0.00	0.00
ATOM	4012	HG	LEU	X	269	50.870	63.516	38.508	0.00	0.00
ATOM	4013	CD1	LEU	X	269	52.797	63.776	39.417	0.00	0.00
ATOM	4014	HD11	LEU	X	269	53.100	64.212	38.465	0.00	0.00
ATOM	4015	HD12	LEU	X	269	53.146	62.744	39.406	0.00	0.00
ATOM	4016	HD13	LEU	X	269	53.358	64.272	40.209	0.00	0.00
ATOM	4017	CD2	LEU	X	269	50.642	63.382	40.740	0.00	0.00
ATOM	4018	HD21	LEU	X	269	51.140	63.524	41.699	0.00	0.00
ATOM	4019	HD22	LEU	X	269	49.575	63.587	40.829	0.00	0.00
ATOM	4020	HD23	LEU	X	269	50.727	62.304	40.603	0.00	0.00
ATOM	4021	C	LEU	X	269	49.964	65.804	36.760	0.00	0.00
ATOM	4022	O	LEU	X	269	49.917	64.720	36.171	0.00	0.00
ATOM	4023	N	ARG	X	270	49.071	66.821	36.421	0.00	0.00
ATOM	4024	H	ARG	X	270	49.067	67.516	37.154	0.00	0.00
ATOM	4025	CA	ARG	X	270	48.054	66.743	35.316	0.00	0.00
ATOM	4026	HA	ARG	X	270	47.852	65.697	35.086	0.00	0.00
ATOM	4027	CB	ARG	X	270	46.735	67.392	35.796	0.00	0.00
ATOM	4028	HB2	ARG	X	270	46.940	68.404	36.144	0.00	0.00
ATOM	4029	HB3	ARG	X	270	46.055	67.340	34.946	0.00	0.00
ATOM	4030	CG	ARG	X	270	46.212	66.494	36.976	0.00	0.00
ATOM	4031	HG2	ARG	X	270	46.457	65.464	36.713	0.00	0.00
ATOM	4032	HG3	ARG	X	270	46.805	66.593	37.886	0.00	0.00
ATOM	4033	CD	ARG	X	270	44.705	66.643	37.413	0.00	0.00
ATOM	4034	HD2	ARG	X	270	44.066	66.093	36.723	0.00	0.00
ATOM	4035	HD3	ARG	X	270	44.692	66.166	38.393	0.00	0.00
ATOM	4036	NE	ARG	X	270	44.387	68.061	37.660	0.00	0.00
ATOM	4037	HE	ARG	X	270	44.917	68.818	37.252	0.00	0.00
ATOM	4038	CZ	ARG	X	270	43.423	68.347	38.544	0.00	0.00
ATOM	4039	NH1	ARG	X	270	42.765	67.423	39.187	0.00	0.00
ATOM	4040	HH11	ARG	X	270	42.937	66.440	39.026	0.00	0.00
ATOM	4041	HH12	ARG	X	270	41.947	67.695	39.713	0.00	0.00
ATOM	4042	NH2	ARG	X	270	43.127	69.583	38.767	0.00	0.00
ATOM	4043	HH21	ARG	X	270	43.530	70.302	38.184	0.00	0.00
ATOM	4044	HH22	ARG	X	270	42.347	69.684	39.400	0.00	0.00
ATOM	4045	C	ARG	X	270	48.619	67.304	34.024	0.00	0.00
ATOM	4046	O	ARG	X	270	48.081	66.906	33.025	0.00	0.00
ATOM	4047	N	THR	X	271	49.717	68.118	33.995	0.00	0.00
ATOM	4048	H	THR	X	271	50.086	68.347	34.908	0.00	0.00
ATOM	4049	CA	THR	X	271	50.479	68.685	32.846	0.00	0.00
ATOM	4050	HA	THR	X	271	49.764	68.866	32.044	0.00	0.00
ATOM	4051	CB	THR	X	271	51.143	69.988	33.234	0.00	0.00
ATOM	4052	HB	THR	X	271	52.107	69.766	33.692	0.00	0.00
ATOM	4053	CG2	THR	X	271	51.542	70.858	32.062	0.00	0.00
ATOM	4054	HG21	THR	X	271	52.077	71.738	32.420	0.00	0.00
ATOM	4055	HG22	THR	X	271	50.699	71.249	31.493	0.00	0.00
ATOM	4056	HG23	THR	X	271	52.114	70.361	31.279	0.00	0.00
ATOM	4057	OG1	THR	X	271	50.343	70.702	34.032	0.00	0.00
ATOM	4058	HG1	THR	X	271	50.684	71.575	34.240	0.00	0.00
ATOM	4059	C	THR	X	271	51.545	67.640	32.352	0.00	0.00
ATOM	4060	O	THR	X	271	51.654	67.562	31.142	0.00	0.00
ATOM	4061	N	ARG	X	272	52.127	66.853	33.261	0.00	0.00
ATOM	4062	H	ARG	X	272	52.073	67.169	34.219	0.00	0.00
ATOM	4063	CA	ARG	X	272	53.282	65.959	32.840	0.00	0.00
ATOM	4064	HA	ARG	X	272	53.908	66.565	32.185	0.00	0.00
ATOM	4065	CB	ARG	X	272	54.105	65.489	34.085	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.413	64.859	34.644	0.00	0.00
ATOM	4067	HB3	ARG	X	272	54.939	64.936	33.654	0.00	0.00
ATOM	4068	CG	ARG	X	272	54.804	66.574	34.909	0.00	0.00
ATOM	4069	HG2	ARG	X	272	54.114	67.300	35.340	0.00	0.00
ATOM	4070	HG3	ARG	X	272	55.297	66.105	35.759	0.00	0.00
ATOM	4071	CD	ARG	X	272	55.814	67.342	34.109	0.00	0.00

ATOM	4072	HD2	ARG	X	272	56.480	66.565	33.734	0.00	0.00
ATOM	4073	HD3	ARG	X	272	55.285	67.958	33.381	0.00	0.00
ATOM	4074	NE	ARG	X	272	56.673	68.085	34.957	0.00	0.00
ATOM	4075	HE	ARG	X	272	56.424	68.155	35.933	0.00	0.00
ATOM	4076	CZ	ARG	X	272	57.712	68.739	34.487	0.00	0.00
ATOM	4077	NH1	ARG	X	272	58.163	68.693	33.272	0.00	0.00
ATOM	4078	HH11	ARG	X	272	57.846	68.011	32.598	0.00	0.00
ATOM	4079	HH12	ARG	X	272	58.971	69.246	33.021	0.00	0.00
ATOM	4080	NH2	ARG	X	272	58.427	69.499	35.271	0.00	0.00
ATOM	4081	HH21	ARG	X	272	58.271	69.561	36.267	0.00	0.00
ATOM	4082	HH22	ARG	X	272	59.278	69.960	34.982	0.00	0.00
ATOM	4083	C	ARG	X	272	52.727	64.766	32.048	0.00	0.00
ATOM	4084	O	ARG	X	272	51.747	64.174	32.566	0.00	0.00
ATOM	4085	N	PRO	X	273	53.177	64.466	30.819	0.00	0.00
ATOM	4086	CD	PRO	X	273	54.471	64.858	30.162	0.00	0.00
ATOM	4087	HD2	PRO	X	273	55.339	64.553	30.747	0.00	0.00
ATOM	4088	HD3	PRO	X	273	54.565	65.914	29.910	0.00	0.00
ATOM	4089	CG	PRO	X	273	54.432	63.933	28.921	0.00	0.00
ATOM	4090	HG2	PRO	X	273	54.858	62.940	29.060	0.00	0.00
ATOM	4091	HG3	PRO	X	273	54.876	64.354	28.019	0.00	0.00
ATOM	4092	CB	PRO	X	273	52.979	63.812	28.616	0.00	0.00
ATOM	4093	HB2	PRO	X	273	52.716	63.031	27.902	0.00	0.00
ATOM	4094	HB3	PRO	X	273	52.597	64.763	28.242	0.00	0.00
ATOM	4095	CA	PRO	X	273	52.330	63.713	29.979	0.00	0.00
ATOM	4096	HA	PRO	X	273	51.321	64.114	29.892	0.00	0.00
ATOM	4097	C	PRO	X	273	52.210	62.274	30.427	0.00	0.00
ATOM	4098	O	PRO	X	273	53.239	61.727	30.937	0.00	0.00
ATOM	4099	N	ALA	X	274	51.179	61.469	30.154	0.00	0.00
ATOM	4100	H	ALA	X	274	50.443	61.904	29.616	0.00	0.00
ATOM	4101	CA	ALA	X	274	50.935	60.148	30.680	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.868	60.196	31.767	0.00	0.00
ATOM	4103	CB	ALA	X	274	49.581	59.706	30.191	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.252	58.724	30.533	0.00	0.00
ATOM	4105	HB2	ALA	X	274	49.633	59.689	29.102	0.00	0.00
ATOM	4106	HB3	ALA	X	274	48.811	60.429	30.460	0.00	0.00
ATOM	4107	C	ALA	X	274	52.026	59.136	30.241	0.00	0.00
ATOM	4108	O	ALA	X	274	52.508	58.397	31.093	0.00	0.00
ATOM	4109	N	GLN	X	275	52.424	59.149	28.996	0.00	0.00
ATOM	4110	H	GLN	X	275	52.053	59.890	28.420	0.00	0.00
ATOM	4111	CA	GLN	X	275	53.530	58.345	28.515	0.00	0.00
ATOM	4112	HA	GLN	X	275	53.212	57.305	28.594	0.00	0.00
ATOM	4113	CB	GLN	X	275	53.822	58.669	26.958	0.00	0.00
ATOM	4114	HB2	GLN	X	275	52.930	58.546	26.344	0.00	0.00
ATOM	4115	HB3	GLN	X	275	54.124	59.714	26.894	0.00	0.00
ATOM	4116	CG	GLN	X	275	54.875	57.713	26.263	0.00	0.00
ATOM	4117	HG2	GLN	X	275	55.853	57.737	26.744	0.00	0.00
ATOM	4118	HG3	GLN	X	275	54.490	56.698	26.358	0.00	0.00
ATOM	4119	CD	GLN	X	275	55.005	58.039	24.810	0.00	0.00
ATOM	4120	OE1	GLN	X	275	56.030	58.479	24.344	0.00	0.00
ATOM	4121	NE2	GLN	X	275	53.949	57.924	24.051	0.00	0.00
ATOM	4122	HE21	GLN	X	275	54.035	58.408	23.169	0.00	0.00
ATOM	4123	HE22	GLN	X	275	53.205	57.269	24.246	0.00	0.00
ATOM	4124	C	GLN	X	275	54.794	58.383	29.259	0.00	0.00
ATOM	4125	O	GLN	X	275	55.520	57.348	29.329	0.00	0.00
ATOM	4126	N	VAL	X	276	55.117	59.503	29.906	0.00	0.00
ATOM	4127	H	VAL	X	276	54.530	60.317	29.793	0.00	0.00
ATOM	4128	CA	VAL	X	276	56.255	59.630	30.838	0.00	0.00
ATOM	4129	HA	VAL	X	276	57.019	58.881	30.628	0.00	0.00
ATOM	4130	CB	VAL	X	276	56.946	60.991	30.702	0.00	0.00
ATOM	4131	HB	VAL	X	276	56.361	61.832	31.073	0.00	0.00
ATOM	4132	CG1	VAL	X	276	58.170	61.037	31.657	0.00	0.00
ATOM	4133	HG11	VAL	X	276	58.568	62.047	31.755	0.00	0.00
ATOM	4134	HG12	VAL	X	276	57.883	60.823	32.686	0.00	0.00
ATOM	4135	HG13	VAL	X	276	58.883	60.248	31.417	0.00	0.00
ATOM	4136	CG2	VAL	X	276	57.468	61.101	29.300	0.00	0.00
ATOM	4137	HG21	VAL	X	276	56.636	60.988	28.605	0.00	0.00
ATOM	4138	HG22	VAL	X	276	58.333	60.445	29.210	0.00	0.00

ATOM	4139	HG23	VAL	X	276	57.851	62.119	29.229	0.00	0.00
ATOM	4140	C	VAL	X	276	55.857	59.284	32.319	0.00	0.00
ATOM	4141	O	VAL	X	276	56.688	58.658	32.921	0.00	0.00
ATOM	4142	N	LEU	X	277	54.680	59.718	32.803	0.00	0.00
ATOM	4143	H	LEU	X	277	54.103	60.085	32.059	0.00	0.00
ATOM	4144	CA	LEU	X	277	54.118	59.389	34.064	0.00	0.00
ATOM	4145	HA	LEU	X	277	54.752	59.885	34.800	0.00	0.00
ATOM	4146	CB	LEU	X	277	52.771	60.067	34.288	0.00	0.00
ATOM	4147	HB2	LEU	X	277	52.847	61.127	34.045	0.00	0.00
ATOM	4148	HB3	LEU	X	277	52.126	59.740	33.472	0.00	0.00
ATOM	4149	CG	LEU	X	277	52.095	59.825	35.638	0.00	0.00
ATOM	4150	HG	LEU	X	277	52.327	58.807	35.949	0.00	0.00
ATOM	4151	CD1	LEU	X	277	52.657	60.931	36.642	0.00	0.00
ATOM	4152	HD11	LEU	X	277	52.016	60.703	37.494	0.00	0.00
ATOM	4153	HD12	LEU	X	277	52.404	61.928	36.281	0.00	0.00
ATOM	4154	HD13	LEU	X	277	53.692	60.661	36.849	0.00	0.00
ATOM	4155	CD2	LEU	X	277	50.617	59.965	35.372	0.00	0.00
ATOM	4156	HD21	LEU	X	277	50.403	60.896	34.849	0.00	0.00
ATOM	4157	HD22	LEU	X	277	50.151	59.124	34.859	0.00	0.00
ATOM	4158	HD23	LEU	X	277	50.034	59.975	36.293	0.00	0.00
ATOM	4159	C	LEU	X	277	54.073	57.868	34.353	0.00	0.00
ATOM	4160	O	LEU	X	277	54.645	57.374	35.311	0.00	0.00
ATOM	4161	N	VAL	X	278	53.406	57.061	33.486	0.00	0.00
ATOM	4162	H	VAL	X	278	52.942	57.505	32.706	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.225	55.604	33.608	0.00	0.00
ATOM	4164	HA	VAL	X	278	52.637	55.413	34.506	0.00	0.00
ATOM	4165	CB	VAL	X	278	52.517	55.078	32.337	0.00	0.00
ATOM	4166	HB	VAL	X	278	51.621	55.698	32.332	0.00	0.00
ATOM	4167	CG1	VAL	X	278	53.268	55.378	31.025	0.00	0.00
ATOM	4168	HG11	VAL	X	278	53.997	54.579	30.890	0.00	0.00
ATOM	4169	HG12	VAL	X	278	52.529	55.440	30.226	0.00	0.00
ATOM	4170	HG13	VAL	X	278	53.828	56.311	31.077	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.210	53.622	32.341	0.00	0.00
ATOM	4172	HG21	VAL	X	278	51.731	53.363	31.397	0.00	0.00
ATOM	4173	HG22	VAL	X	278	51.504	53.352	33.127	0.00	0.00
ATOM	4174	HG23	VAL	X	278	53.130	53.037	32.347	0.00	0.00
ATOM	4175	C	VAL	X	278	54.604	54.959	33.829	0.00	0.00
ATOM	4176	O	VAL	X	278	54.812	54.179	34.746	0.00	0.00
ATOM	4177	N	ASN	X	279	55.567	55.435	32.994	0.00	0.00
ATOM	4178	H	ASN	X	279	55.322	55.992	32.188	0.00	0.00
ATOM	4179	CA	ASN	X	279	56.952	54.854	32.944	0.00	0.00
ATOM	4180	HA	ASN	X	279	56.876	53.769	32.873	0.00	0.00
ATOM	4181	CB	ASN	X	279	57.717	55.458	31.769	0.00	0.00
ATOM	4182	HB2	ASN	X	279	56.986	55.559	30.967	0.00	0.00
ATOM	4183	HB3	ASN	X	279	57.875	56.510	32.005	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.080	54.825	31.427	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.164	55.159	31.854	0.00	0.00
ATOM	4186	ND2	ASN	X	279	59.067	53.836	30.550	0.00	0.00
ATOM	4187	HD21	ASN	X	279	59.915	53.491	30.124	0.00	0.00
ATOM	4188	HD22	ASN	X	279	58.226	53.323	30.326	0.00	0.00
ATOM	4189	C	ASN	X	279	57.759	55.157	34.236	0.00	0.00
ATOM	4190	O	ASN	X	279	58.475	54.334	34.777	0.00	0.00
ATOM	4191	N	HIE	X	280	57.521	56.300	34.859	0.00	0.00
ATOM	4192	H	HIE	X	280	56.921	56.968	34.396	0.00	0.00
ATOM	4193	CA	HIE	X	280	57.997	56.722	36.143	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.001	56.305	36.212	0.00	0.00
ATOM	4195	CB	HIE	X	280	58.143	58.213	36.278	0.00	0.00
ATOM	4196	HB2	HIE	X	280	57.271	58.738	35.888	0.00	0.00
ATOM	4197	HB3	HIE	X	280	58.163	58.463	37.339	0.00	0.00
ATOM	4198	CG	HIE	X	280	59.309	58.852	35.582	0.00	0.00
ATOM	4199	ND1	HIE	X	280	59.974	60.044	35.848	0.00	0.00
ATOM	4200	CE1	HIE	X	280	60.949	60.123	34.961	0.00	0.00
ATOM	4201	HE1	HIE	X	280	61.568	61.008	34.979	0.00	0.00
ATOM	4202	NE2	HIE	X	280	60.840	59.155	34.038	0.00	0.00
ATOM	4203	HE2	HIE	X	280	61.411	59.087	33.207	0.00	0.00
ATOM	4204	CD2	HIE	X	280	59.781	58.359	34.394	0.00	0.00
ATOM	4205	HD2	HIE	X	280	59.246	57.644	33.787	0.00	0.00

ATOM	4206	C	HIE	X	280	57.280	56.044	37.351	0.00	0.00
ATOM	4207	O	HIE	X	280	57.860	56.000	38.485	0.00	0.00
ATOM	4208	N	GLU	X	281	56.032	55.524	37.223	0.00	0.00
ATOM	4209	H	GLU	X	281	55.624	55.422	36.305	0.00	0.00
ATOM	4210	CA	GLU	X	281	55.343	54.696	38.236	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.073	55.365	39.053	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.979	54.100	37.770	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.404	54.876	37.264	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.162	53.212	37.165	0.00	0.00
ATOM	4215	CG	GLU	X	281	53.009	53.692	38.893	0.00	0.00
ATOM	4216	HG2	GLU	X	281	53.585	53.007	39.515	0.00	0.00
ATOM	4217	HG3	GLU	X	281	52.764	54.608	39.432	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.880	52.838	38.316	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.772	53.375	38.100	0.00	0.00
ATOM	4220	OE2	GLU	X	281	52.079	51.648	37.975	0.00	0.00
ATOM	4221	C	GLU	X	281	56.208	53.565	38.741	0.00	0.00
ATOM	4222	O	GLU	X	281	56.359	53.498	39.943	0.00	0.00
ATOM	4223	N	TRP	X	282	56.804	52.727	37.905	0.00	0.00
ATOM	4224	H	TRP	X	282	56.734	52.803	36.900	0.00	0.00
ATOM	4225	CA	TRP	X	282	57.483	51.508	38.371	0.00	0.00
ATOM	4226	HA	TRP	X	282	56.724	50.869	38.823	0.00	0.00
ATOM	4227	CB	TRP	X	282	57.928	50.728	37.167	0.00	0.00
ATOM	4228	HB2	TRP	X	282	57.029	50.751	36.551	0.00	0.00
ATOM	4229	HB3	TRP	X	282	58.672	51.333	36.648	0.00	0.00
ATOM	4230	CG	TRP	X	282	58.203	49.240	37.306	0.00	0.00
ATOM	4231	CD1	TRP	X	282	57.298	48.212	37.298	0.00	0.00
ATOM	4232	HD1	TRP	X	282	56.228	48.308	37.401	0.00	0.00
ATOM	4233	NE1	TRP	X	282	58.053	47.032	37.686	0.00	0.00
ATOM	4234	HE1	TRP	X	282	57.620	46.151	37.925	0.00	0.00
ATOM	4235	CE2	TRP	X	282	59.398	47.204	37.749	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	60.454	46.346	38.097	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	60.298	45.305	38.341	0.00	0.00
ATOM	4238	CH2	TRP	X	282	61.731	46.819	38.018	0.00	0.00
ATOM	4239	HH2	TRP	X	282	62.520	46.098	38.175	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	61.943	48.232	37.937	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	62.915	48.701	37.888	0.00	0.00
ATOM	4242	CE3	TRP	X	282	60.873	49.053	37.504	0.00	0.00
ATOM	4243	HE3	TRP	X	282	61.113	50.085	37.292	0.00	0.00
ATOM	4244	CD2	TRP	X	282	59.549	48.597	37.484	0.00	0.00
ATOM	4245	C	TRP	X	282	58.627	51.686	39.337	0.00	0.00
ATOM	4246	O	TRP	X	282	58.894	50.856	40.185	0.00	0.00
ATOM	4247	N	HIE	X	283	59.207	52.931	39.385	0.00	0.00
ATOM	4248	H	HIE	X	283	58.703	53.643	38.876	0.00	0.00
ATOM	4249	CA	HIE	X	283	60.234	53.356	40.466	0.00	0.00
ATOM	4250	HA	HIE	X	283	61.050	52.633	40.465	0.00	0.00
ATOM	4251	CB	HIE	X	283	60.841	54.730	40.121	0.00	0.00
ATOM	4252	HB2	HIE	X	283	60.058	55.476	40.261	0.00	0.00
ATOM	4253	HB3	HIE	X	283	61.617	55.074	40.804	0.00	0.00
ATOM	4254	CG	HIE	X	283	61.432	54.806	38.704	0.00	0.00
ATOM	4255	ND1	HIE	X	283	62.336	53.923	38.193	0.00	0.00
ATOM	4256	CE1	HIE	X	283	62.548	54.331	36.902	0.00	0.00
ATOM	4257	HE1	HIE	X	283	62.988	53.748	36.106	0.00	0.00
ATOM	4258	NE2	HIE	X	283	62.013	55.568	36.666	0.00	0.00
ATOM	4259	HE2	HIE	X	283	61.969	55.968	35.740	0.00	0.00
ATOM	4260	CD2	HIE	X	283	61.290	55.799	37.832	0.00	0.00
ATOM	4261	HD2	HIE	X	283	60.534	56.566	37.922	0.00	0.00
ATOM	4262	C	HIE	X	283	59.549	53.346	41.825	0.00	0.00
ATOM	4263	O	HIE	X	283	60.190	53.253	42.840	0.00	0.00
ATOM	4264	N	VAL	X	284	58.202	53.459	41.856	0.00	0.00
ATOM	4265	H	VAL	X	284	57.809	53.506	40.927	0.00	0.00
ATOM	4266	CA	VAL	X	284	57.375	53.552	43.085	0.00	0.00
ATOM	4267	HA	VAL	X	284	58.051	53.457	43.935	0.00	0.00
ATOM	4268	CB	VAL	X	284	56.636	54.911	43.115	0.00	0.00
ATOM	4269	HB	VAL	X	284	56.330	54.984	44.158	0.00	0.00
ATOM	4270	CG1	VAL	X	284	57.545	56.161	42.851	0.00	0.00
ATOM	4271	HG11	VAL	X	284	58.488	56.014	43.377	0.00	0.00
ATOM	4272	HG12	VAL	X	284	57.829	56.196	41.799	0.00	0.00

ATOM	4273	HG13	VAL	X	284	57.067	57.097	43.140	0.00	0.00
ATOM	4274	CG2	VAL	X	284	55.364	55.069	42.256	0.00	0.00
ATOM	4275	HG21	VAL	X	284	54.573	55.719	42.630	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.872	54.103	42.143	0.00	0.00
ATOM	4277	HG23	VAL	X	284	55.672	55.436	41.278	0.00	0.00
ATOM	4278	C	VAL	X	284	56.425	52.349	43.184	0.00	0.00
ATOM	4279	O	VAL	X	284	55.470	52.287	43.927	0.00	0.00
ATOM	4280	N	LEU	X	285	56.734	51.341	42.363	0.00	0.00
ATOM	4281	H	LEU	X	285	57.695	51.315	42.052	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.326	49.945	42.624	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.323	50.027	43.043	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.120	49.148	41.294	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.355	49.773	40.832	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.039	49.108	40.709	0.00	0.00
ATOM	4287	CG	LEU	X	285	55.630	47.710	41.529	0.00	0.00
ATOM	4288	HG	LEU	X	285	55.093	47.745	42.476	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.765	47.199	40.376	0.00	0.00
ATOM	4290	HD11	LEU	X	285	53.845	47.758	40.203	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.629	46.126	40.510	0.00	0.00
ATOM	4292	HD13	LEU	X	285	55.353	47.266	39.460	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.821	46.725	41.536	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.636	46.853	42.249	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.469	45.723	41.780	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.356	46.662	40.589	0.00	0.00
ATOM	4297	C	LEU	X	285	57.316	49.303	43.638	0.00	0.00
ATOM	4298	O	LEU	X	285	58.536	49.339	43.405	0.00	0.00
ATOM	4299	N	PRO	X	286	56.773	48.829	44.835	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.401	49.025	45.306	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.873	48.147	44.934	0.00	0.00
ATOM	4302	HD3	PRO	X	286	55.046	50.018	45.032	0.00	0.00
ATOM	4303	CG	PRO	X	286	55.553	48.897	46.800	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.632	48.633	47.320	0.00	0.00
ATOM	4305	HG3	PRO	X	286	55.894	49.872	47.146	0.00	0.00
ATOM	4306	CB	PRO	X	286	56.619	47.830	47.003	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.299	46.814	46.773	0.00	0.00
ATOM	4308	HB3	PRO	X	286	57.252	47.826	47.891	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.580	48.347	45.909	0.00	0.00
ATOM	4310	HA	PRO	X	286	58.135	49.178	46.345	0.00	0.00
ATOM	4311	C	PRO	X	286	58.412	47.159	45.460	0.00	0.00
ATOM	4312	O	PRO	X	286	57.910	46.214	44.793	0.00	0.00
ATOM	4313	N	GLN	X	287	59.724	47.231	45.765	0.00	0.00
ATOM	4314	H	GLN	X	287	60.032	48.061	46.251	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.810	46.376	45.324	0.00	0.00
ATOM	4316	HA	GLN	X	287	60.498	45.702	44.526	0.00	0.00
ATOM	4317	CB	GLN	X	287	62.116	47.186	44.995	0.00	0.00
ATOM	4318	HB2	GLN	X	287	62.398	47.787	45.859	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.950	46.503	44.834	0.00	0.00
ATOM	4320	CG	GLN	X	287	62.063	48.129	43.826	0.00	0.00
ATOM	4321	HG2	GLN	X	287	61.438	48.968	44.131	0.00	0.00
ATOM	4322	HG3	GLN	X	287	63.020	48.566	43.540	0.00	0.00
ATOM	4323	CD	GLN	X	287	61.540	47.456	42.586	0.00	0.00
ATOM	4324	OE1	GLN	X	287	62.242	46.605	42.023	0.00	0.00
ATOM	4325	NE2	GLN	X	287	60.357	47.693	42.047	0.00	0.00
ATOM	4326	HE21	GLN	X	287	60.150	47.104	41.253	0.00	0.00
ATOM	4327	HE22	GLN	X	287	59.753	48.443	42.352	0.00	0.00
ATOM	4328	C	GLN	X	287	61.220	45.469	46.536	0.00	0.00
ATOM	4329	O	GLN	X	287	61.144	45.942	47.675	0.00	0.00
ATOM	4330	N	GLU	X	288	61.681	44.294	46.266	0.00	0.00
ATOM	4331	H	GLU	X	288	61.613	43.935	45.324	0.00	0.00
ATOM	4332	CA	GLU	X	288	62.185	43.261	47.252	0.00	0.00
ATOM	4333	HA	GLU	X	288	62.574	42.396	46.716	0.00	0.00
ATOM	4334	CB	GLU	X	288	63.299	43.755	48.195	0.00	0.00
ATOM	4335	HB2	GLU	X	288	63.027	44.680	48.702	0.00	0.00
ATOM	4336	HB3	GLU	X	288	63.535	42.955	48.896	0.00	0.00
ATOM	4337	CG	GLU	X	288	64.514	44.104	47.321	0.00	0.00
ATOM	4338	HG2	GLU	X	288	64.915	43.239	46.793	0.00	0.00
ATOM	4339	HG3	GLU	X	288	64.351	44.921	46.618	0.00	0.00

ATOM	4340	CD	GLU	X	288	65.572	44.614	48.278	0.00	0.00
ATOM	4341	OE1	GLU	X	288	66.207	43.821	49.016	0.00	0.00
ATOM	4342	OE2	GLU	X	288	65.708	45.873	48.257	0.00	0.00
ATOM	4343	C	GLU	X	288	60.952	42.677	48.012	0.00	0.00
ATOM	4344	O	GLU	X	288	61.118	42.167	49.100	0.00	0.00
ATOM	4345	N	SER	X	289	59.766	42.743	47.403	0.00	0.00
ATOM	4346	H	SER	X	289	59.825	43.342	46.593	0.00	0.00
ATOM	4347	CA	SER	X	289	58.435	42.168	47.710	0.00	0.00
ATOM	4348	HA	SER	X	289	58.574	41.443	48.512	0.00	0.00
ATOM	4349	CB	SER	X	289	57.530	43.285	48.198	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.668	44.152	47.551	0.00	0.00
ATOM	4351	HB3	SER	X	289	56.487	42.968	48.205	0.00	0.00
ATOM	4352	OG	SER	X	289	57.873	43.786	49.459	0.00	0.00
ATOM	4353	HG	SER	X	289	58.232	44.676	49.443	0.00	0.00
ATOM	4354	C	SER	X	289	57.730	41.570	46.484	0.00	0.00
ATOM	4355	O	SER	X	289	57.121	42.219	45.602	0.00	0.00
ATOM	4356	N	VAL	X	290	57.676	40.248	46.533	0.00	0.00
ATOM	4357	H	VAL	X	290	58.207	39.698	47.194	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.985	39.352	45.613	0.00	0.00
ATOM	4359	HA	VAL	X	290	57.154	39.592	44.564	0.00	0.00
ATOM	4360	CB	VAL	X	290	57.316	37.816	45.743	0.00	0.00
ATOM	4361	HB	VAL	X	290	57.017	37.427	46.716	0.00	0.00
ATOM	4362	CG1	VAL	X	290	56.549	36.880	44.774	0.00	0.00
ATOM	4363	HG11	VAL	X	290	56.988	35.882	44.763	0.00	0.00
ATOM	4364	HG12	VAL	X	290	55.506	37.007	45.064	0.00	0.00
ATOM	4365	HG13	VAL	X	290	56.765	37.218	43.760	0.00	0.00
ATOM	4366	CG2	VAL	X	290	58.839	37.567	45.768	0.00	0.00
ATOM	4367	HG21	VAL	X	290	59.159	37.648	44.729	0.00	0.00
ATOM	4368	HG22	VAL	X	290	59.015	36.598	46.235	0.00	0.00
ATOM	4369	HG23	VAL	X	290	59.367	38.269	46.413	0.00	0.00
ATOM	4370	C	VAL	X	290	55.475	39.456	45.845	0.00	0.00
ATOM	4371	O	VAL	X	290	54.993	39.384	47.030	0.00	0.00
ATOM	4372	N	PHE	X	291	54.638	39.595	44.836	0.00	0.00
ATOM	4373	H	PHE	X	291	55.080	39.692	43.933	0.00	0.00
ATOM	4374	CA	PHE	X	291	53.143	39.825	44.872	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.905	39.909	43.812	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.555	38.532	45.497	0.00	0.00
ATOM	4377	HB2	PHE	X	291	53.116	37.675	45.124	0.00	0.00
ATOM	4378	HB3	PHE	X	291	52.661	38.574	46.581	0.00	0.00
ATOM	4379	CG	PHE	X	291	51.147	38.045	45.090	0.00	0.00
ATOM	4380	CD1	PHE	X	291	50.128	39.029	44.719	0.00	0.00
ATOM	4381	HD1	PHE	X	291	50.325	40.087	44.624	0.00	0.00
ATOM	4382	CE1	PHE	X	291	48.808	38.517	44.559	0.00	0.00
ATOM	4383	HE1	PHE	X	291	47.976	39.174	44.355	0.00	0.00
ATOM	4384	CZ	PHE	X	291	48.513	37.168	44.711	0.00	0.00
ATOM	4385	HZ	PHE	X	291	47.520	36.779	44.539	0.00	0.00
ATOM	4386	CE2	PHE	X	291	49.546	36.218	44.978	0.00	0.00
ATOM	4387	HE2	PHE	X	291	49.350	35.169	44.809	0.00	0.00
ATOM	4388	CD2	PHE	X	291	50.850	36.692	45.080	0.00	0.00
ATOM	4389	HD2	PHE	X	291	51.638	35.955	45.132	0.00	0.00
ATOM	4390	C	PHE	X	291	52.632	41.073	45.543	0.00	0.00
ATOM	4391	O	PHE	X	291	52.022	41.047	46.666	0.00	0.00
ATOM	4392	N	ARG	X	292	53.038	42.182	44.958	0.00	0.00
ATOM	4393	H	ARG	X	292	53.491	42.085	44.061	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.726	43.657	45.458	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.658	43.678	45.672	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.612	44.041	46.647	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.668	43.915	46.411	0.00	0.00
ATOM	4398	HB3	ARG	X	292	53.546	45.109	46.856	0.00	0.00
ATOM	4399	CG	ARG	X	292	53.427	43.326	48.031	0.00	0.00
ATOM	4400	HG2	ARG	X	292	53.731	42.280	47.993	0.00	0.00
ATOM	4401	HG3	ARG	X	292	54.193	43.629	48.745	0.00	0.00
ATOM	4402	CD	ARG	X	292	52.094	43.463	48.758	0.00	0.00
ATOM	4403	HD2	ARG	X	292	52.097	44.230	49.533	0.00	0.00
ATOM	4404	HD3	ARG	X	292	51.346	43.822	48.052	0.00	0.00
ATOM	4405	NE	ARG	X	292	51.732	42.172	49.360	0.00	0.00
ATOM	4406	HE	ARG	X	292	51.444	41.473	48.691	0.00	0.00

ATOM	4407	CZ	ARG	X	292	51.616	41.876	50.668	0.00	0.00
ATOM	4408	NH1	ARG	X	292	52.024	42.693	51.671	0.00	0.00
ATOM	4409	HH11	ARG	X	292	52.467	43.561	51.407	0.00	0.00
ATOM	4410	HH12	ARG	X	292	51.837	42.467	52.637	0.00	0.00
ATOM	4411	NH2	ARG	X	292	51.103	40.727	51.087	0.00	0.00
ATOM	4412	HH21	ARG	X	292	50.682	40.103	50.414	0.00	0.00
ATOM	4413	HH22	ARG	X	292	50.873	40.669	52.068	0.00	0.00
ATOM	4414	C	ARG	X	292	52.930	44.613	44.280	0.00	0.00
ATOM	4415	O	ARG	X	292	53.597	44.223	43.261	0.00	0.00
ATOM	4416	N	PHE	X	293	52.255	45.769	44.319	0.00	0.00
ATOM	4417	H	PHE	X	293	51.758	45.830	45.195	0.00	0.00
ATOM	4418	CA	PHE	X	293	51.859	46.629	43.176	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.465	46.235	42.360	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.435	46.389	42.671	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.771	46.694	43.480	0.00	0.00
ATOM	4422	HB3	PHE	X	293	50.230	46.988	41.784	0.00	0.00
ATOM	4423	CG	PHE	X	293	50.163	44.951	42.408	0.00	0.00
ATOM	4424	CD1	PHE	X	293	50.968	44.227	41.530	0.00	0.00
ATOM	4425	HD1	PHE	X	293	51.737	44.726	40.959	0.00	0.00
ATOM	4426	CE1	PHE	X	293	50.714	42.908	41.317	0.00	0.00
ATOM	4427	HE1	PHE	X	293	51.303	42.359	40.598	0.00	0.00
ATOM	4428	CZ	PHE	X	293	49.702	42.314	41.908	0.00	0.00
ATOM	4429	HZ	PHE	X	293	49.459	41.283	41.701	0.00	0.00
ATOM	4430	CE2	PHE	X	293	48.886	42.969	42.897	0.00	0.00
ATOM	4431	HE2	PHE	X	293	48.154	42.508	43.543	0.00	0.00
ATOM	4432	CD2	PHE	X	293	49.077	44.372	43.063	0.00	0.00
ATOM	4433	HD2	PHE	X	293	48.463	45.018	43.673	0.00	0.00
ATOM	4434	C	PHE	X	293	52.108	48.133	43.418	0.00	0.00
ATOM	4435	O	PHE	X	293	52.280	48.543	44.616	0.00	0.00
ATOM	4436	N	SER	X	294	52.062	48.998	42.391	0.00	0.00
ATOM	4437	H	SER	X	294	51.804	48.661	41.475	0.00	0.00
ATOM	4438	CA	SER	X	294	52.307	50.426	42.548	0.00	0.00
ATOM	4439	HA	SER	X	294	53.156	50.570	43.215	0.00	0.00
ATOM	4440	CB	SER	X	294	52.536	51.048	41.129	0.00	0.00
ATOM	4441	HB2	SER	X	294	51.781	51.766	40.812	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.498	51.560	41.095	0.00	0.00
ATOM	4443	OG	SER	X	294	52.455	50.042	40.097	0.00	0.00
ATOM	4444	HG	SER	X	294	52.294	50.495	39.266	0.00	0.00
ATOM	4445	C	SER	X	294	51.212	51.271	43.316	0.00	0.00
ATOM	4446	O	SER	X	294	51.586	52.016	44.186	0.00	0.00
ATOM	4447	N	PHE	X	295	49.996	51.112	42.890	0.00	0.00
ATOM	4448	H	PHE	X	295	49.834	50.527	42.082	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.776	51.790	43.405	0.00	0.00
ATOM	4450	HA	PHE	X	295	49.009	51.909	44.463	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.530	53.075	42.631	0.00	0.00
ATOM	4452	HB2	PHE	X	295	48.300	52.874	41.585	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.636	53.521	43.067	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.593	54.179	42.828	0.00	0.00
ATOM	4455	CD1	PHE	X	295	49.658	54.783	44.047	0.00	0.00
ATOM	4456	HD1	PHE	X	295	48.942	54.657	44.846	0.00	0.00
ATOM	4457	CE1	PHE	X	295	50.530	55.827	44.234	0.00	0.00
ATOM	4458	HE1	PHE	X	295	50.554	56.348	45.179	0.00	0.00
ATOM	4459	CZ	PHE	X	295	51.500	56.104	43.268	0.00	0.00
ATOM	4460	HZ	PHE	X	295	52.292	56.807	43.478	0.00	0.00
ATOM	4461	CE2	PHE	X	295	51.403	55.526	42.024	0.00	0.00
ATOM	4462	HE2	PHE	X	295	51.848	56.008	41.166	0.00	0.00
ATOM	4463	CD2	PHE	X	295	50.465	54.525	41.751	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.322	54.016	40.809	0.00	0.00
ATOM	4465	C	PHE	X	295	47.577	50.874	43.405	0.00	0.00
ATOM	4466	O	PHE	X	295	47.442	50.042	42.534	0.00	0.00
ATOM	4467	N	VAL	X	296	46.833	51.029	44.469	0.00	0.00
ATOM	4468	H	VAL	X	296	46.943	51.929	44.912	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.711	50.207	44.848	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.243	49.767	43.968	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.210	49.024	45.644	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.377	48.464	46.069	0.00	0.00
ATOM	4473	CG1	VAL	X	296	46.993	48.000	44.787	0.00	0.00

ATOM	4474	HG11	VAL	X	296	47.996	48.374	44.583	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.251	47.163	45.436	0.00	0.00
ATOM	4476	HG13	VAL	X	296	46.430	47.577	43.955	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.883	49.478	46.915	0.00	0.00
ATOM	4478	HG21	VAL	X	296	47.655	50.216	46.696	0.00	0.00
ATOM	4479	HG22	VAL	X	296	47.304	48.702	47.554	0.00	0.00
ATOM	4480	HG23	VAL	X	296	46.057	49.973	47.426	0.00	0.00
ATOM	4481	C	VAL	X	296	44.624	51.031	45.630	0.00	0.00
ATOM	4482	O	VAL	X	296	44.798	52.142	46.090	0.00	0.00
ATOM	4483	N	PRO	X	297	43.356	50.502	45.765	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.824	49.501	44.859	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.282	48.513	44.897	0.00	0.00
ATOM	4486	HD3	PRO	X	297	42.836	49.857	43.828	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.349	49.354	45.219	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.119	48.293	45.129	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.805	49.990	44.520	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.270	49.950	46.670	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.510	49.126	47.341	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.303	50.419	46.854	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.365	50.987	46.712	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.977	51.941	46.356	0.00	0.00
ATOM	4495	C	PRO	X	297	42.877	51.267	48.165	0.00	0.00
ATOM	4496	O	PRO	X	297	43.590	50.531	48.879	0.00	0.00
ATOM	4497	N	VAL	X	298	42.571	52.502	48.557	0.00	0.00
ATOM	4498	H	VAL	X	298	41.940	52.991	47.938	0.00	0.00
ATOM	4499	CA	VAL	X	298	43.139	53.213	49.648	0.00	0.00
ATOM	4500	HA	VAL	X	298	44.032	52.686	49.985	0.00	0.00
ATOM	4501	CB	VAL	X	298	43.559	54.745	49.296	0.00	0.00
ATOM	4502	HB	VAL	X	298	42.692	55.398	49.196	0.00	0.00
ATOM	4503	CG1	VAL	X	298	44.374	55.363	50.464	0.00	0.00
ATOM	4504	HG11	VAL	X	298	45.365	54.917	50.552	0.00	0.00
ATOM	4505	HG12	VAL	X	298	44.487	56.431	50.283	0.00	0.00
ATOM	4506	HG13	VAL	X	298	43.893	55.141	51.417	0.00	0.00
ATOM	4507	CG2	VAL	X	298	44.244	54.895	47.922	0.00	0.00
ATOM	4508	HG21	VAL	X	298	45.207	54.397	48.037	0.00	0.00
ATOM	4509	HG22	VAL	X	298	44.410	55.965	47.791	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.627	54.434	47.151	0.00	0.00
ATOM	4511	C	VAL	X	298	42.184	53.341	50.867	0.00	0.00
ATOM	4512	O	VAL	X	298	41.106	53.958	50.777	0.00	0.00
ATOM	4513	N	VAL	X	299	42.616	52.794	52.036	0.00	0.00
ATOM	4514	H	VAL	X	299	43.569	52.466	52.108	0.00	0.00
ATOM	4515	CA	VAL	X	299	41.982	52.944	53.368	0.00	0.00
ATOM	4516	HA	VAL	X	299	40.894	52.883	53.322	0.00	0.00
ATOM	4517	CB	VAL	X	299	42.296	51.715	54.291	0.00	0.00
ATOM	4518	HB	VAL	X	299	43.378	51.692	54.421	0.00	0.00
ATOM	4519	CG1	VAL	X	299	41.534	51.841	55.591	0.00	0.00
ATOM	4520	HG11	VAL	X	299	41.589	50.839	56.017	0.00	0.00
ATOM	4521	HG12	VAL	X	299	42.007	52.618	56.191	0.00	0.00
ATOM	4522	HG13	VAL	X	299	40.516	52.182	55.405	0.00	0.00
ATOM	4523	CG2	VAL	X	299	41.808	50.354	53.773	0.00	0.00
ATOM	4524	HG21	VAL	X	299	42.250	49.528	54.331	0.00	0.00
ATOM	4525	HG22	VAL	X	299	42.185	50.302	52.752	0.00	0.00
ATOM	4526	HG23	VAL	X	299	40.733	50.234	53.640	0.00	0.00
ATOM	4527	C	VAL	X	299	42.323	54.311	54.019	0.00	0.00
ATOM	4528	O	VAL	X	299	43.484	54.581	54.299	0.00	0.00
ATOM	4529	N	ASP	X	300	41.296	55.187	54.193	0.00	0.00
ATOM	4530	H	ASP	X	300	40.406	54.809	53.902	0.00	0.00
ATOM	4531	CA	ASP	X	300	41.413	56.632	54.259	0.00	0.00
ATOM	4532	HA	ASP	X	300	42.318	56.884	54.812	0.00	0.00
ATOM	4533	CB	ASP	X	300	41.538	57.240	52.896	0.00	0.00
ATOM	4534	HB2	ASP	X	300	41.858	58.273	53.027	0.00	0.00
ATOM	4535	HB3	ASP	X	300	42.384	56.746	52.416	0.00	0.00
ATOM	4536	CG	ASP	X	300	40.363	57.140	51.946	0.00	0.00
ATOM	4537	OD1	ASP	X	300	39.297	56.547	52.240	0.00	0.00
ATOM	4538	OD2	ASP	X	300	40.457	57.766	50.861	0.00	0.00
ATOM	4539	C	ASP	X	300	40.377	57.377	55.210	0.00	0.00
ATOM	4540	O	ASP	X	300	40.718	58.410	55.736	0.00	0.00

ATOM	4541	N	GLY	X	301	39.197	56.824	55.402	0.00	0.00
ATOM	4542	H	GLY	X	301	39.114	55.898	55.008	0.00	0.00
ATOM	4543	CA	GLY	X	301	38.044	57.325	56.099	0.00	0.00
ATOM	4544	HA2	GLY	X	301	37.643	56.466	56.638	0.00	0.00
ATOM	4545	HA3	GLY	X	301	38.305	58.167	56.741	0.00	0.00
ATOM	4546	C	GLY	X	301	36.916	57.723	55.102	0.00	0.00
ATOM	4547	O	GLY	X	301	35.984	58.317	55.602	0.00	0.00
ATOM	4548	N	ASP	X	302	36.988	57.473	53.770	0.00	0.00
ATOM	4549	H	ASP	X	302	37.765	56.922	53.434	0.00	0.00
ATOM	4550	CA	ASP	X	302	35.982	57.789	52.773	0.00	0.00
ATOM	4551	HA	ASP	X	302	34.994	58.064	53.141	0.00	0.00
ATOM	4552	CB	ASP	X	302	36.598	58.955	51.953	0.00	0.00
ATOM	4553	HB2	ASP	X	302	36.735	59.864	52.538	0.00	0.00
ATOM	4554	HB3	ASP	X	302	37.570	58.606	51.604	0.00	0.00
ATOM	4555	CG	ASP	X	302	35.671	59.458	50.829	0.00	0.00
ATOM	4556	OD1	ASP	X	302	34.957	60.390	51.108	0.00	0.00
ATOM	4557	OD2	ASP	X	302	35.810	58.968	49.680	0.00	0.00
ATOM	4558	C	ASP	X	302	35.581	56.509	51.902	0.00	0.00
ATOM	4559	O	ASP	X	302	34.453	56.028	52.039	0.00	0.00
ATOM	4560	N	PHE	X	303	36.513	55.929	51.135	0.00	0.00
ATOM	4561	H	PHE	X	303	37.490	56.181	51.180	0.00	0.00
ATOM	4562	CA	PHE	X	303	36.201	54.661	50.521	0.00	0.00
ATOM	4563	HA	PHE	X	303	35.210	54.626	50.069	0.00	0.00
ATOM	4564	CB	PHE	X	303	37.202	54.407	49.440	0.00	0.00
ATOM	4565	HB2	PHE	X	303	37.196	55.225	48.720	0.00	0.00
ATOM	4566	HB3	PHE	X	303	38.189	54.449	49.900	0.00	0.00
ATOM	4567	CG	PHE	X	303	37.033	53.066	48.740	0.00	0.00
ATOM	4568	CD1	PHE	X	303	38.130	52.108	48.833	0.00	0.00
ATOM	4569	HD1	PHE	X	303	39.076	52.371	49.282	0.00	0.00
ATOM	4570	CE1	PHE	X	303	37.852	50.813	48.363	0.00	0.00
ATOM	4571	HE1	PHE	X	303	38.695	50.138	48.411	0.00	0.00
ATOM	4572	CZ	PHE	X	303	36.716	50.505	47.617	0.00	0.00
ATOM	4573	HZ	PHE	X	303	36.691	49.603	47.023	0.00	0.00
ATOM	4574	CE2	PHE	X	303	35.676	51.424	47.560	0.00	0.00
ATOM	4575	HE2	PHE	X	303	34.780	51.220	46.992	0.00	0.00
ATOM	4576	CD2	PHE	X	303	35.783	52.741	48.113	0.00	0.00
ATOM	4577	HD2	PHE	X	303	35.035	53.520	48.108	0.00	0.00
ATOM	4578	C	PHE	X	303	36.187	53.528	51.556	0.00	0.00
ATOM	4579	O	PHE	X	303	35.194	52.778	51.588	0.00	0.00
ATOM	4580	N	LEU	X	304	37.252	53.407	52.358	0.00	0.00
ATOM	4581	H	LEU	X	304	37.906	54.176	52.375	0.00	0.00
ATOM	4582	CA	LEU	X	304	37.382	52.431	53.413	0.00	0.00
ATOM	4583	HA	LEU	X	304	36.384	52.124	53.725	0.00	0.00
ATOM	4584	CB	LEU	X	304	38.246	51.227	53.016	0.00	0.00
ATOM	4585	HB2	LEU	X	304	39.184	51.610	52.614	0.00	0.00
ATOM	4586	HB3	LEU	X	304	38.524	50.590	53.856	0.00	0.00
ATOM	4587	CG	LEU	X	304	37.778	50.345	51.873	0.00	0.00
ATOM	4588	HG	LEU	X	304	37.216	50.928	51.143	0.00	0.00
ATOM	4589	CD1	LEU	X	304	38.986	49.561	51.224	0.00	0.00
ATOM	4590	HD11	LEU	X	304	39.750	50.223	50.817	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.702	48.971	50.353	0.00	0.00
ATOM	4592	HD13	LEU	X	304	39.522	48.946	51.948	0.00	0.00
ATOM	4593	CD2	LEU	X	304	36.763	49.287	52.312	0.00	0.00
ATOM	4594	HD21	LEU	X	304	36.594	48.733	51.389	0.00	0.00
ATOM	4595	HD22	LEU	X	304	37.156	48.685	53.131	0.00	0.00
ATOM	4596	HD23	LEU	X	304	35.905	49.843	52.690	0.00	0.00
ATOM	4597	C	LEU	X	304	37.951	53.138	54.703	0.00	0.00
ATOM	4598	O	LEU	X	304	38.760	54.106	54.602	0.00	0.00
ATOM	4599	N	SER	X	305	37.552	52.714	55.879	0.00	0.00
ATOM	4600	H	SER	X	305	36.868	51.972	55.901	0.00	0.00
ATOM	4601	CA	SER	X	305	38.046	53.325	57.176	0.00	0.00
ATOM	4602	HA	SER	X	305	38.759	54.123	56.972	0.00	0.00
ATOM	4603	CB	SER	X	305	36.726	53.946	57.833	0.00	0.00
ATOM	4604	HB2	SER	X	305	37.090	54.573	58.647	0.00	0.00
ATOM	4605	HB3	SER	X	305	36.346	54.742	57.193	0.00	0.00
ATOM	4606	OG	SER	X	305	35.773	52.975	58.234	0.00	0.00
ATOM	4607	HG	SER	X	305	35.310	52.661	57.455	0.00	0.00

ATOM	4608	C	SER	X	305	38.752	52.241	57.989	0.00	0.00
ATOM	4609	O	SER	X	305	39.386	52.611	58.988	0.00	0.00
ATOM	4610	N	ASP	X	306	38.638	50.986	57.508	0.00	0.00
ATOM	4611	H	ASP	X	306	38.315	50.899	56.555	0.00	0.00
ATOM	4612	CA	ASP	X	306	39.380	49.781	58.003	0.00	0.00
ATOM	4613	HA	ASP	X	306	40.263	50.246	58.442	0.00	0.00
ATOM	4614	CB	ASP	X	306	38.547	49.113	59.167	0.00	0.00
ATOM	4615	HB2	ASP	X	306	37.802	49.810	59.549	0.00	0.00
ATOM	4616	HB3	ASP	X	306	38.004	48.276	58.728	0.00	0.00
ATOM	4617	CG	ASP	X	306	39.356	48.566	60.367	0.00	0.00
ATOM	4618	OD1	ASP	X	306	40.447	47.949	60.205	0.00	0.00
ATOM	4619	OD2	ASP	X	306	39.055	48.890	61.503	0.00	0.00
ATOM	4620	C	ASP	X	306	39.796	48.840	56.889	0.00	0.00
ATOM	4621	O	ASP	X	306	39.428	49.075	55.735	0.00	0.00
ATOM	4622	N	THR	X	307	40.527	47.745	57.155	0.00	0.00
ATOM	4623	H	THR	X	307	40.615	47.536	58.139	0.00	0.00
ATOM	4624	CA	THR	X	307	40.888	46.634	56.231	0.00	0.00
ATOM	4625	HA	THR	X	307	41.317	47.044	55.316	0.00	0.00
ATOM	4626	CB	THR	X	307	41.981	45.680	56.816	0.00	0.00
ATOM	4627	HB	THR	X	307	42.389	45.082	56.001	0.00	0.00
ATOM	4628	CG2	THR	X	307	43.250	46.334	57.291	0.00	0.00
ATOM	4629	HG21	THR	X	307	43.859	46.606	56.429	0.00	0.00
ATOM	4630	HG22	THR	X	307	43.767	45.571	57.872	0.00	0.00
ATOM	4631	HG23	THR	X	307	43.161	47.218	57.923	0.00	0.00
ATOM	4632	OG1	THR	X	307	41.470	44.818	57.893	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.331	45.375	58.662	0.00	0.00
ATOM	4634	C	THR	X	307	39.575	45.833	55.978	0.00	0.00
ATOM	4635	O	THR	X	307	38.793	45.596	56.903	0.00	0.00
ATOM	4636	N	PRO	X	308	39.254	45.404	54.760	0.00	0.00
ATOM	4637	CD	PRO	X	308	39.943	45.795	53.541	0.00	0.00
ATOM	4638	HD2	PRO	X	308	40.814	45.139	53.540	0.00	0.00
ATOM	4639	HD3	PRO	X	308	40.113	46.868	53.451	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.976	45.313	52.464	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.456	45.186	51.494	0.00	0.00
ATOM	4642	HG3	PRO	X	308	38.195	46.066	52.360	0.00	0.00
ATOM	4643	CB	PRO	X	308	38.444	43.992	53.007	0.00	0.00
ATOM	4644	HB2	PRO	X	308	39.209	43.217	52.949	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.493	43.793	52.512	0.00	0.00
ATOM	4646	CA	PRO	X	308	38.191	44.396	54.454	0.00	0.00
ATOM	4647	HA	PRO	X	308	37.228	44.905	54.482	0.00	0.00
ATOM	4648	C	PRO	X	308	38.058	43.174	55.364	0.00	0.00
ATOM	4649	O	PRO	X	308	36.872	42.773	55.592	0.00	0.00
ATOM	4650	N	GLU	X	309	39.165	42.714	55.909	0.00	0.00
ATOM	4651	H	GLU	X	309	40.095	43.081	55.762	0.00	0.00
ATOM	4652	CA	GLU	X	309	39.016	41.668	56.924	0.00	0.00
ATOM	4653	HA	GLU	X	309	38.479	40.840	56.461	0.00	0.00
ATOM	4654	CB	GLU	X	309	40.378	41.214	57.446	0.00	0.00
ATOM	4655	HB2	GLU	X	309	41.004	42.104	57.516	0.00	0.00
ATOM	4656	HB3	GLU	X	309	40.242	40.737	58.416	0.00	0.00
ATOM	4657	CG	GLU	X	309	41.222	40.283	56.664	0.00	0.00
ATOM	4658	HG2	GLU	X	309	40.736	39.379	56.297	0.00	0.00
ATOM	4659	HG3	GLU	X	309	41.609	40.845	55.815	0.00	0.00
ATOM	4660	CD	GLU	X	309	42.501	39.833	57.365	0.00	0.00
ATOM	4661	OE1	GLU	X	309	42.842	40.430	58.411	0.00	0.00
ATOM	4662	OE2	GLU	X	309	43.155	38.891	56.893	0.00	0.00
ATOM	4663	C	GLU	X	309	38.279	42.146	58.224	0.00	0.00
ATOM	4664	O	GLU	X	309	37.836	41.281	58.965	0.00	0.00
ATOM	4665	N	ALA	X	310	38.221	43.469	58.506	0.00	0.00
ATOM	4666	H	ALA	X	310	38.476	44.179	57.835	0.00	0.00
ATOM	4667	CA	ALA	X	310	37.537	44.003	59.713	0.00	0.00
ATOM	4668	HA	ALA	X	310	37.499	43.212	60.462	0.00	0.00
ATOM	4669	CB	ALA	X	310	38.234	45.172	60.411	0.00	0.00
ATOM	4670	HB1	ALA	X	310	38.404	45.968	59.686	0.00	0.00
ATOM	4671	HB2	ALA	X	310	39.238	44.915	60.749	0.00	0.00
ATOM	4672	HB3	ALA	X	310	37.814	45.509	61.359	0.00	0.00
ATOM	4673	C	ALA	X	310	36.109	44.339	59.382	0.00	0.00
ATOM	4674	O	ALA	X	310	35.219	43.836	60.020	0.00	0.00

ATOM	4675	N	LEU	X	311	35.940	45.077	58.345	0.00	0.00
ATOM	4676	H	LEU	X	311	36.745	45.371	57.810	0.00	0.00
ATOM	4677	CA	LEU	X	311	34.676	45.656	57.899	0.00	0.00
ATOM	4678	HA	LEU	X	311	34.242	46.305	58.659	0.00	0.00
ATOM	4679	CB	LEU	X	311	34.919	46.525	56.640	0.00	0.00
ATOM	4680	HB2	LEU	X	311	35.564	45.838	56.092	0.00	0.00
ATOM	4681	HB3	LEU	X	311	33.987	46.632	56.083	0.00	0.00
ATOM	4682	CG	LEU	X	311	35.611	47.895	56.976	0.00	0.00
ATOM	4683	HG	LEU	X	311	36.420	47.666	57.670	0.00	0.00
ATOM	4684	CD1	LEU	X	311	36.262	48.442	55.722	0.00	0.00
ATOM	4685	HD11	LEU	X	311	36.748	49.361	56.051	0.00	0.00
ATOM	4686	HD12	LEU	X	311	35.445	48.623	55.023	0.00	0.00
ATOM	4687	HD13	LEU	X	311	37.092	47.852	55.334	0.00	0.00
ATOM	4688	CD2	LEU	X	311	34.724	48.917	57.660	0.00	0.00
ATOM	4689	HD21	LEU	X	311	35.081	49.945	57.593	0.00	0.00
ATOM	4690	HD22	LEU	X	311	33.854	48.979	57.006	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.591	48.667	58.712	0.00	0.00
ATOM	4692	C	LEU	X	311	33.597	44.552	57.582	0.00	0.00
ATOM	4693	O	LEU	X	311	32.412	44.764	57.721	0.00	0.00
ATOM	4694	N	ILE	X	312	34.023	43.456	57.038	0.00	0.00
ATOM	4695	H	ILE	X	312	35.018	43.301	56.969	0.00	0.00
ATOM	4696	CA	ILE	X	312	33.061	42.518	56.359	0.00	0.00
ATOM	4697	HA	ILE	X	312	32.348	43.087	55.763	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.893	41.593	55.457	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.466	42.300	54.858	0.00	0.00
ATOM	4700	CG2	ILE	X	312	34.749	40.607	56.210	0.00	0.00
ATOM	4701	HG21	ILE	X	312	34.122	39.806	56.603	0.00	0.00
ATOM	4702	HG22	ILE	X	312	35.259	41.027	57.077	0.00	0.00
ATOM	4703	HG23	ILE	X	312	35.402	40.104	55.496	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.063	40.790	54.458	0.00	0.00
ATOM	4705	HG12	ILE	X	312	33.678	40.085	53.899	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.405	40.186	55.083	0.00	0.00
ATOM	4707	CD1	ILE	X	312	32.116	41.457	53.452	0.00	0.00
ATOM	4708	HD11	ILE	X	312	32.729	41.991	52.725	0.00	0.00
ATOM	4709	HD12	ILE	X	312	31.377	42.036	54.006	0.00	0.00
ATOM	4710	HD13	ILE	X	312	31.538	40.743	52.865	0.00	0.00
ATOM	4711	C	ILE	X	312	32.188	41.748	57.349	0.00	0.00
ATOM	4712	O	ILE	X	312	31.168	41.210	56.890	0.00	0.00
ATOM	4713	N	ASN	X	313	32.474	41.723	58.638	0.00	0.00
ATOM	4714	H	ASN	X	313	33.335	42.158	58.935	0.00	0.00
ATOM	4715	CA	ASN	X	313	31.761	41.102	59.758	0.00	0.00
ATOM	4716	HA	ASN	X	313	31.535	40.084	59.440	0.00	0.00
ATOM	4717	CB	ASN	X	313	32.537	41.127	61.028	0.00	0.00
ATOM	4718	HB2	ASN	X	313	33.484	40.621	60.842	0.00	0.00
ATOM	4719	HB3	ASN	X	313	32.739	42.157	61.323	0.00	0.00
ATOM	4720	CG	ASN	X	313	31.790	40.389	62.153	0.00	0.00
ATOM	4721	OD1	ASN	X	313	30.939	40.951	62.854	0.00	0.00
ATOM	4722	ND2	ASN	X	313	32.204	39.209	62.565	0.00	0.00
ATOM	4723	HD21	ASN	X	313	31.773	38.720	63.336	0.00	0.00
ATOM	4724	HD22	ASN	X	313	32.972	38.845	62.018	0.00	0.00
ATOM	4725	C	ASN	X	313	30.379	41.849	59.904	0.00	0.00
ATOM	4726	O	ASN	X	313	29.467	41.149	60.339	0.00	0.00
ATOM	4727	N	ALA	X	314	30.290	43.122	59.541	0.00	0.00
ATOM	4728	H	ALA	X	314	31.031	43.572	59.023	0.00	0.00
ATOM	4729	CA	ALA	X	314	29.080	43.841	59.619	0.00	0.00
ATOM	4730	HA	ALA	X	314	28.530	43.566	60.519	0.00	0.00
ATOM	4731	CB	ALA	X	314	29.428	45.329	59.838	0.00	0.00
ATOM	4732	HB1	ALA	X	314	30.096	45.863	59.162	0.00	0.00
ATOM	4733	HB2	ALA	X	314	29.925	45.428	60.803	0.00	0.00
ATOM	4734	HB3	ALA	X	314	28.567	45.969	60.033	0.00	0.00
ATOM	4735	C	ALA	X	314	28.051	43.586	58.507	0.00	0.00
ATOM	4736	O	ALA	X	314	26.907	44.099	58.581	0.00	0.00
ATOM	4737	N	GLY	X	315	28.420	42.967	57.366	0.00	0.00
ATOM	4738	H	GLY	X	315	29.390	42.710	57.251	0.00	0.00
ATOM	4739	CA	GLY	X	315	27.479	42.803	56.275	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.187	43.774	55.874	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.162	42.334	55.567	0.00	0.00

ATOM	4742	C	GLY	X	315	26.282	41.904	56.635	0.00	0.00
ATOM	4743	O	GLY	X	315	26.337	41.136	57.557	0.00	0.00
ATOM	4744	N	ASP	X	316	25.262	41.923	55.789	0.00	0.00
ATOM	4745	H	ASP	X	316	25.165	42.663	55.109	0.00	0.00
ATOM	4746	CA	ASP	X	316	24.072	40.958	55.817	0.00	0.00
ATOM	4747	HA	ASP	X	316	24.414	40.054	56.320	0.00	0.00
ATOM	4748	CB	ASP	X	316	22.968	41.560	56.667	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.475	41.914	57.565	0.00	0.00
ATOM	4750	HB3	ASP	X	316	22.495	42.363	56.102	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.052	40.447	57.119	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.043	40.060	58.313	0.00	0.00
ATOM	4753	OD2	ASP	X	316	21.316	39.983	56.248	0.00	0.00
ATOM	4754	C	ASP	X	316	23.537	40.617	54.334	0.00	0.00
ATOM	4755	O	ASP	X	316	23.315	41.523	53.538	0.00	0.00
ATOM	4756	N	PHE	X	317	23.496	39.287	54.029	0.00	0.00
ATOM	4757	H	PHE	X	317	23.390	38.631	54.790	0.00	0.00
ATOM	4758	CA	PHE	X	317	23.496	38.839	52.636	0.00	0.00
ATOM	4759	HA	PHE	X	317	23.386	39.735	52.025	0.00	0.00
ATOM	4760	CB	PHE	X	317	24.893	38.315	52.333	0.00	0.00
ATOM	4761	HB2	PHE	X	317	25.072	37.422	52.932	0.00	0.00
ATOM	4762	HB3	PHE	X	317	24.940	38.091	51.268	0.00	0.00
ATOM	4763	CG	PHE	X	317	26.067	39.287	52.562	0.00	0.00
ATOM	4764	CD1	PHE	X	317	26.279	40.357	51.669	0.00	0.00
ATOM	4765	HD1	PHE	X	317	25.667	40.499	50.791	0.00	0.00
ATOM	4766	CE1	PHE	X	317	27.421	41.166	51.726	0.00	0.00
ATOM	4767	HE1	PHE	X	317	27.511	41.854	50.899	0.00	0.00
ATOM	4768	CZ	PHE	X	317	28.415	40.819	52.671	0.00	0.00
ATOM	4769	HZ	PHE	X	317	29.366	41.293	52.474	0.00	0.00
ATOM	4770	CE2	PHE	X	317	28.139	39.837	53.654	0.00	0.00
ATOM	4771	HE2	PHE	X	317	28.889	39.651	54.408	0.00	0.00
ATOM	4772	CD2	PHE	X	317	26.870	39.141	53.687	0.00	0.00
ATOM	4773	HD2	PHE	X	317	26.717	38.379	54.437	0.00	0.00
ATOM	4774	C	PHE	X	317	22.420	37.873	52.319	0.00	0.00
ATOM	4775	O	PHE	X	317	22.579	37.127	51.388	0.00	0.00
ATOM	4776	N	HIE	X	318	21.347	37.791	53.180	0.00	0.00
ATOM	4777	H	HIE	X	318	21.418	38.307	54.046	0.00	0.00
ATOM	4778	CA	HIE	X	318	20.042	37.176	52.799	0.00	0.00
ATOM	4779	HA	HIE	X	318	20.187	36.101	52.693	0.00	0.00
ATOM	4780	CB	HIE	X	318	19.092	37.422	54.002	0.00	0.00
ATOM	4781	HB2	HIE	X	318	19.460	36.892	54.880	0.00	0.00
ATOM	4782	HB3	HIE	X	318	18.965	38.453	54.332	0.00	0.00
ATOM	4783	CG	HIE	X	318	17.703	36.911	53.756	0.00	0.00
ATOM	4784	ND1	HIE	X	318	17.260	36.188	52.589	0.00	0.00
ATOM	4785	CE1	HIE	X	318	16.051	35.696	52.947	0.00	0.00
ATOM	4786	HE1	HIE	X	318	15.387	35.279	52.204	0.00	0.00
ATOM	4787	NE2	HIE	X	318	15.785	36.059	54.246	0.00	0.00
ATOM	4788	HE2	HIE	X	318	15.019	35.695	54.795	0.00	0.00
ATOM	4789	CD2	HIE	X	318	16.848	36.788	54.729	0.00	0.00
ATOM	4790	HD2	HIE	X	318	16.933	37.274	55.690	0.00	0.00
ATOM	4791	C	HIE	X	318	19.558	37.799	51.489	0.00	0.00
ATOM	4792	O	HIE	X	318	19.220	38.951	51.450	0.00	0.00
ATOM	4793	N	GLY	X	319	19.568	37.083	50.381	0.00	0.00
ATOM	4794	H	GLY	X	319	19.801	36.100	50.404	0.00	0.00
ATOM	4795	CA	GLY	X	319	19.192	37.648	49.030	0.00	0.00
ATOM	4796	HA2	GLY	X	319	18.340	37.057	48.694	0.00	0.00
ATOM	4797	HA3	GLY	X	319	18.789	38.660	49.078	0.00	0.00
ATOM	4798	C	GLY	X	319	20.302	37.648	47.991	0.00	0.00
ATOM	4799	O	GLY	X	319	20.008	37.616	46.804	0.00	0.00
ATOM	4800	N	LEU	X	320	21.504	37.619	48.490	0.00	0.00
ATOM	4801	H	LEU	X	320	21.556	37.468	49.487	0.00	0.00
ATOM	4802	CA	LEU	X	320	22.708	37.417	47.677	0.00	0.00
ATOM	4803	HA	LEU	X	320	22.519	37.731	46.651	0.00	0.00
ATOM	4804	CB	LEU	X	320	23.865	38.327	48.297	0.00	0.00
ATOM	4805	HB2	LEU	X	320	23.553	38.822	49.217	0.00	0.00
ATOM	4806	HB3	LEU	X	320	24.768	37.739	48.459	0.00	0.00
ATOM	4807	CG	LEU	X	320	24.195	39.406	47.190	0.00	0.00
ATOM	4808	HG	LEU	X	320	23.270	39.753	46.730	0.00	0.00

ATOM	4809	CD1	LEU	X	320	24.843	40.582	47.978	0.00	0.00
ATOM	4810	HD11	LEU	X	320	23.989	40.852	48.599	0.00	0.00
ATOM	4811	HD12	LEU	X	320	25.088	41.441	47.353	0.00	0.00
ATOM	4812	HD13	LEU	X	320	25.689	40.256	48.583	0.00	0.00
ATOM	4813	CD2	LEU	X	320	25.059	38.706	46.189	0.00	0.00
ATOM	4814	HD21	LEU	X	320	25.236	39.419	45.384	0.00	0.00
ATOM	4815	HD22	LEU	X	320	26.020	38.572	46.686	0.00	0.00
ATOM	4816	HD23	LEU	X	320	24.679	37.752	45.823	0.00	0.00
ATOM	4817	C	LEU	X	320	23.138	35.943	47.653	0.00	0.00
ATOM	4818	O	LEU	X	320	22.941	35.269	48.691	0.00	0.00
ATOM	4819	N	GLN	X	321	23.595	35.525	46.491	0.00	0.00
ATOM	4820	H	GLN	X	321	23.554	36.138	45.690	0.00	0.00
ATOM	4821	CA	GLN	X	321	24.283	34.301	46.282	0.00	0.00
ATOM	4822	HA	GLN	X	321	24.602	33.829	47.211	0.00	0.00
ATOM	4823	CB	GLN	X	321	23.479	33.293	45.477	0.00	0.00
ATOM	4824	HB2	GLN	X	321	23.467	33.551	44.418	0.00	0.00
ATOM	4825	HB3	GLN	X	321	23.974	32.325	45.548	0.00	0.00
ATOM	4826	CG	GLN	X	321	21.994	33.192	45.907	0.00	0.00
ATOM	4827	HG2	GLN	X	321	21.678	32.171	45.696	0.00	0.00
ATOM	4828	HG3	GLN	X	321	21.958	33.150	46.996	0.00	0.00
ATOM	4829	CD	GLN	X	321	21.037	34.313	45.407	0.00	0.00
ATOM	4830	OE1	GLN	X	321	21.195	34.707	44.228	0.00	0.00
ATOM	4831	NE2	GLN	X	321	20.207	34.877	46.290	0.00	0.00
ATOM	4832	HE21	GLN	X	321	19.596	35.575	45.889	0.00	0.00
ATOM	4833	HE22	GLN	X	321	20.219	34.607	47.263	0.00	0.00
ATOM	4834	C	GLN	X	321	25.588	34.543	45.506	0.00	0.00
ATOM	4835	O	GLN	X	321	25.597	35.531	44.746	0.00	0.00
ATOM	4836	N	VAL	X	322	26.633	33.794	45.895	0.00	0.00
ATOM	4837	H	VAL	X	322	26.487	32.926	46.390	0.00	0.00
ATOM	4838	CA	VAL	X	322	27.987	34.245	45.672	0.00	0.00
ATOM	4839	HA	VAL	X	322	28.048	34.963	44.855	0.00	0.00
ATOM	4840	CB	VAL	X	322	28.669	34.930	46.869	0.00	0.00
ATOM	4841	HB	VAL	X	322	28.533	34.235	47.697	0.00	0.00
ATOM	4842	CG1	VAL	X	322	30.122	35.290	46.477	0.00	0.00
ATOM	4843	HG11	VAL	X	322	30.055	35.799	45.516	0.00	0.00
ATOM	4844	HG12	VAL	X	322	30.529	35.972	47.223	0.00	0.00
ATOM	4845	HG13	VAL	X	322	30.712	34.377	46.390	0.00	0.00
ATOM	4846	CG2	VAL	X	322	27.919	36.248	47.210	0.00	0.00
ATOM	4847	HG21	VAL	X	322	28.347	36.553	48.165	0.00	0.00
ATOM	4848	HG22	VAL	X	322	26.835	36.148	47.262	0.00	0.00
ATOM	4849	HG23	VAL	X	322	28.257	36.911	46.414	0.00	0.00
ATOM	4850	C	VAL	X	322	28.760	32.946	45.231	0.00	0.00
ATOM	4851	O	VAL	X	322	28.515	31.827	45.720	0.00	0.00
ATOM	4852	N	LEU	X	323	29.711	33.110	44.368	0.00	0.00
ATOM	4853	H	LEU	X	323	29.825	33.989	43.884	0.00	0.00
ATOM	4854	CA	LEU	X	323	30.619	32.069	43.933	0.00	0.00
ATOM	4855	HA	LEU	X	323	30.444	31.170	44.524	0.00	0.00
ATOM	4856	CB	LEU	X	323	30.382	31.675	42.428	0.00	0.00
ATOM	4857	HB2	LEU	X	323	29.309	31.698	42.242	0.00	0.00
ATOM	4858	HB3	LEU	X	323	30.788	32.513	41.862	0.00	0.00
ATOM	4859	CG	LEU	X	323	30.924	30.287	41.901	0.00	0.00
ATOM	4860	HG	LEU	X	323	30.463	29.481	42.471	0.00	0.00
ATOM	4861	CD1	LEU	X	323	30.439	30.001	40.449	0.00	0.00
ATOM	4862	HD11	LEU	X	323	30.968	29.126	40.071	0.00	0.00
ATOM	4863	HD12	LEU	X	323	30.707	30.879	39.861	0.00	0.00
ATOM	4864	HD13	LEU	X	323	29.359	29.858	40.403	0.00	0.00
ATOM	4865	CD2	LEU	X	323	32.430	30.128	41.847	0.00	0.00
ATOM	4866	HD21	LEU	X	323	32.736	29.817	42.845	0.00	0.00
ATOM	4867	HD22	LEU	X	323	32.668	29.288	41.194	0.00	0.00
ATOM	4868	HD23	LEU	X	323	32.868	31.070	41.519	0.00	0.00
ATOM	4869	C	LEU	X	323	32.051	32.482	44.223	0.00	0.00
ATOM	4870	O	LEU	X	323	32.350	33.667	44.153	0.00	0.00
ATOM	4871	N	VAL	X	324	32.972	31.540	44.606	0.00	0.00
ATOM	4872	H	VAL	X	324	32.698	30.569	44.658	0.00	0.00
ATOM	4873	CA	VAL	X	324	34.336	31.892	45.058	0.00	0.00
ATOM	4874	HA	VAL	X	324	34.765	32.736	44.518	0.00	0.00
ATOM	4875	CB	VAL	X	324	34.424	32.124	46.596	0.00	0.00

ATOM	4876	HB	VAL	X	324	34.441	31.148	47.082	0.00	0.00
ATOM	4877	CG1	VAL	X	324	35.741	32.687	47.059	0.00	0.00
ATOM	4878	HG11	VAL	X	324	36.615	32.497	46.436	0.00	0.00
ATOM	4879	HG12	VAL	X	324	35.728	33.760	47.250	0.00	0.00
ATOM	4880	HG13	VAL	X	324	35.969	32.166	47.989	0.00	0.00
ATOM	4881	CG2	VAL	X	324	33.285	32.899	47.162	0.00	0.00
ATOM	4882	HG21	VAL	X	324	33.263	33.843	46.616	0.00	0.00
ATOM	4883	HG22	VAL	X	324	33.361	32.956	48.248	0.00	0.00
ATOM	4884	HG23	VAL	X	324	32.337	32.477	46.826	0.00	0.00
ATOM	4885	C	VAL	X	324	35.335	30.761	44.706	0.00	0.00
ATOM	4886	O	VAL	X	324	34.927	29.626	45.014	0.00	0.00
ATOM	4887	N	GLY	X	325	36.563	31.054	44.315	0.00	0.00
ATOM	4888	H	GLY	X	325	36.897	31.981	44.090	0.00	0.00
ATOM	4889	CA	GLY	X	325	37.618	30.022	44.472	0.00	0.00
ATOM	4890	HA2	GLY	X	325	37.786	29.741	45.512	0.00	0.00
ATOM	4891	HA3	GLY	X	325	37.310	29.116	43.951	0.00	0.00
ATOM	4892	C	GLY	X	325	38.975	30.503	43.906	0.00	0.00
ATOM	4893	O	GLY	X	325	39.318	31.692	43.944	0.00	0.00
ATOM	4894	N	VAL	X	326	39.808	29.480	43.645	0.00	0.00
ATOM	4895	H	VAL	X	326	39.484	28.532	43.770	0.00	0.00
ATOM	4896	CA	VAL	X	326	41.258	29.525	43.414	0.00	0.00
ATOM	4897	HA	VAL	X	326	41.524	30.442	42.888	0.00	0.00
ATOM	4898	CB	VAL	X	326	42.092	29.391	44.702	0.00	0.00
ATOM	4899	HB	VAL	X	326	43.113	29.281	44.337	0.00	0.00
ATOM	4900	CG1	VAL	X	326	41.939	30.589	45.653	0.00	0.00
ATOM	4901	HG11	VAL	X	326	40.947	30.601	46.104	0.00	0.00
ATOM	4902	HG12	VAL	X	326	42.685	30.586	46.448	0.00	0.00
ATOM	4903	HG13	VAL	X	326	42.140	31.503	45.094	0.00	0.00
ATOM	4904	CG2	VAL	X	326	41.694	28.084	45.526	0.00	0.00
ATOM	4905	HG21	VAL	X	326	42.352	28.046	46.394	0.00	0.00
ATOM	4906	HG22	VAL	X	326	41.878	27.132	45.028	0.00	0.00
ATOM	4907	HG23	VAL	X	326	40.655	28.158	45.848	0.00	0.00
ATOM	4908	C	VAL	X	326	41.644	28.402	42.384	0.00	0.00
ATOM	4909	O	VAL	X	326	40.929	27.358	42.291	0.00	0.00
ATOM	4910	N	VAL	X	327	42.829	28.480	41.751	0.00	0.00
ATOM	4911	H	VAL	X	327	43.385	29.262	42.067	0.00	0.00
ATOM	4912	CA	VAL	X	327	43.584	27.279	41.298	0.00	0.00
ATOM	4913	HA	VAL	X	327	42.810	26.555	41.044	0.00	0.00
ATOM	4914	CB	VAL	X	327	44.514	27.594	40.104	0.00	0.00
ATOM	4915	HB	VAL	X	327	45.098	26.686	39.956	0.00	0.00
ATOM	4916	CG1	VAL	X	327	43.857	28.051	38.715	0.00	0.00
ATOM	4917	HG11	VAL	X	327	44.515	28.661	38.096	0.00	0.00
ATOM	4918	HG12	VAL	X	327	43.399	27.227	38.167	0.00	0.00
ATOM	4919	HG13	VAL	X	327	43.101	28.757	39.058	0.00	0.00
ATOM	4920	CG2	VAL	X	327	45.644	28.571	40.520	0.00	0.00
ATOM	4921	HG21	VAL	X	327	46.089	28.417	41.503	0.00	0.00
ATOM	4922	HG22	VAL	X	327	45.194	29.556	40.644	0.00	0.00
ATOM	4923	HG23	VAL	X	327	46.401	28.618	39.737	0.00	0.00
ATOM	4924	C	VAL	X	327	44.319	26.539	42.378	0.00	0.00
ATOM	4925	O	VAL	X	327	44.516	27.194	43.406	0.00	0.00
ATOM	4926	N	LYS	X	328	44.968	25.374	42.121	0.00	0.00
ATOM	4927	H	LYS	X	328	44.909	25.030	41.173	0.00	0.00
ATOM	4928	CA	LYS	X	328	45.853	24.707	43.032	0.00	0.00
ATOM	4929	HA	LYS	X	328	45.307	24.547	43.962	0.00	0.00
ATOM	4930	CB	LYS	X	328	46.132	23.315	42.447	0.00	0.00
ATOM	4931	HB2	LYS	X	328	45.108	22.971	42.302	0.00	0.00
ATOM	4932	HB3	LYS	X	328	46.729	23.418	41.540	0.00	0.00
ATOM	4933	CG	LYS	X	328	46.786	22.376	43.438	0.00	0.00
ATOM	4934	HG2	LYS	X	328	47.826	22.635	43.633	0.00	0.00
ATOM	4935	HG3	LYS	X	328	46.067	22.438	44.255	0.00	0.00
ATOM	4936	CD	LYS	X	328	46.821	20.974	42.835	0.00	0.00
ATOM	4937	HD2	LYS	X	328	47.177	20.316	43.628	0.00	0.00
ATOM	4938	HD3	LYS	X	328	45.803	20.825	42.475	0.00	0.00
ATOM	4939	CE	LYS	X	328	47.830	20.984	41.574	0.00	0.00
ATOM	4940	HE2	LYS	X	328	47.710	20.013	41.094	0.00	0.00
ATOM	4941	HE3	LYS	X	328	47.462	21.654	40.797	0.00	0.00
ATOM	4942	NZ	LYS	X	328	49.261	21.257	41.948	0.00	0.00

ATOM	4943	HZ1	LYS	X	328	49.927	20.844	41.310	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	49.360	22.248	42.112	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	49.493	20.800	42.819	0.00	0.00
ATOM	4946	C	LYS	X	328	47.107	25.494	43.451	0.00	0.00
ATOM	4947	O	LYS	X	328	47.413	25.349	44.583	0.00	0.00
ATOM	4948	N	ASP	X	329	47.687	26.193	42.535	0.00	0.00
ATOM	4949	H	ASP	X	329	47.464	26.145	41.551	0.00	0.00
ATOM	4950	CA	ASP	X	329	49.098	26.697	42.676	0.00	0.00
ATOM	4951	HA	ASP	X	329	49.450	26.367	43.653	0.00	0.00
ATOM	4952	CB	ASP	X	329	49.969	25.998	41.622	0.00	0.00
ATOM	4953	HB2	ASP	X	329	49.742	26.391	40.631	0.00	0.00
ATOM	4954	HB3	ASP	X	329	50.980	26.340	41.841	0.00	0.00
ATOM	4955	CG	ASP	X	329	50.015	24.471	41.603	0.00	0.00
ATOM	4956	OD1	ASP	X	329	50.752	23.886	42.444	0.00	0.00
ATOM	4957	OD2	ASP	X	329	49.339	23.783	40.801	0.00	0.00
ATOM	4958	C	ASP	X	329	49.150	28.235	42.699	0.00	0.00
ATOM	4959	O	ASP	X	329	49.781	28.806	41.826	0.00	0.00
ATOM	4960	N	GLU	X	330	48.543	28.840	43.702	0.00	0.00
ATOM	4961	H	GLU	X	330	48.203	28.359	44.523	0.00	0.00
ATOM	4962	CA	GLU	X	330	48.374	30.320	43.697	0.00	0.00
ATOM	4963	HA	GLU	X	330	48.073	30.672	42.710	0.00	0.00
ATOM	4964	CB	GLU	X	330	47.304	30.864	44.676	0.00	0.00
ATOM	4965	HB2	GLU	X	330	47.585	30.512	45.669	0.00	0.00
ATOM	4966	HB3	GLU	X	330	47.312	31.952	44.626	0.00	0.00
ATOM	4967	CG	GLU	X	330	45.899	30.323	44.362	0.00	0.00
ATOM	4968	HG2	GLU	X	330	45.933	29.282	44.043	0.00	0.00
ATOM	4969	HG3	GLU	X	330	45.201	30.327	45.200	0.00	0.00
ATOM	4970	CD	GLU	X	330	45.280	31.101	43.178	0.00	0.00
ATOM	4971	OE1	GLU	X	330	45.864	32.094	42.759	0.00	0.00
ATOM	4972	OE2	GLU	X	330	44.210	30.698	42.671	0.00	0.00
ATOM	4973	C	GLU	X	330	49.713	31.117	43.869	0.00	0.00
ATOM	4974	O	GLU	X	330	49.910	32.198	43.337	0.00	0.00
ATOM	4975	N	GLY	X	331	50.680	30.551	44.538	0.00	0.00
ATOM	4976	H	GLY	X	331	50.470	29.663	44.969	0.00	0.00
ATOM	4977	CA	GLY	X	331	52.002	31.068	44.869	0.00	0.00
ATOM	4978	HA2	GLY	X	331	51.914	32.142	45.032	0.00	0.00
ATOM	4979	HA3	GLY	X	331	52.388	30.470	45.695	0.00	0.00
ATOM	4980	C	GLY	X	331	52.980	30.760	43.688	0.00	0.00
ATOM	4981	O	GLY	X	331	54.134	30.930	43.930	0.00	0.00
ATOM	4982	N	SER	X	332	52.555	30.185	42.621	0.00	0.00
ATOM	4983	H	SER	X	332	51.569	29.982	42.531	0.00	0.00
ATOM	4984	CA	SER	X	332	53.432	29.694	41.482	0.00	0.00
ATOM	4985	HA	SER	X	332	54.373	29.323	41.889	0.00	0.00
ATOM	4986	CB	SER	X	332	52.798	28.410	41.003	0.00	0.00
ATOM	4987	HB2	SER	X	332	52.739	27.781	41.892	0.00	0.00
ATOM	4988	HB3	SER	X	332	51.795	28.497	40.586	0.00	0.00
ATOM	4989	OG	SER	X	332	53.585	27.779	39.991	0.00	0.00
ATOM	4990	HG	SER	X	332	53.099	27.108	39.507	0.00	0.00
ATOM	4991	C	SER	X	332	53.812	30.679	40.342	0.00	0.00
ATOM	4992	O	SER	X	332	54.977	30.738	39.966	0.00	0.00
ATOM	4993	N	TYR	X	333	52.816	31.467	39.955	0.00	0.00
ATOM	4994	H	TYR	X	333	51.962	31.497	40.493	0.00	0.00
ATOM	4995	CA	TYR	X	333	52.975	32.482	38.946	0.00	0.00
ATOM	4996	HA	TYR	X	333	53.269	31.996	38.016	0.00	0.00
ATOM	4997	CB	TYR	X	333	51.588	33.100	38.793	0.00	0.00
ATOM	4998	HB2	TYR	X	333	50.915	32.273	38.566	0.00	0.00
ATOM	4999	HB3	TYR	X	333	51.349	33.633	39.713	0.00	0.00
ATOM	5000	CG	TYR	X	333	51.491	34.183	37.690	0.00	0.00
ATOM	5001	CD1	TYR	X	333	51.706	33.754	36.366	0.00	0.00
ATOM	5002	HD1	TYR	X	333	51.878	32.721	36.103	0.00	0.00
ATOM	5003	CE1	TYR	X	333	51.754	34.720	35.320	0.00	0.00
ATOM	5004	HE1	TYR	X	333	51.930	34.391	34.306	0.00	0.00
ATOM	5005	CZ	TYR	X	333	51.710	36.106	35.581	0.00	0.00
ATOM	5006	OH	TYR	X	333	51.999	37.098	34.738	0.00	0.00
ATOM	5007	HH	TYR	X	333	52.041	36.675	33.877	0.00	0.00
ATOM	5008	CE2	TYR	X	333	51.503	36.524	36.944	0.00	0.00
ATOM	5009	HE2	TYR	X	333	51.391	37.575	37.164	0.00	0.00

ATOM	5010	CD2	TYR	X	333	51.302	35.555	37.921	0.00	0.00
ATOM	5011	HD2	TYR	X	333	51.017	35.848	38.921	0.00	0.00
ATOM	5012	C	TYR	X	333	54.025	33.625	39.265	0.00	0.00
ATOM	5013	O	TYR	X	333	54.621	34.233	38.371	0.00	0.00
ATOM	5014	N	PHE	X	334	54.303	33.786	40.537	0.00	0.00
ATOM	5015	H	PHE	X	334	53.757	33.314	41.243	0.00	0.00
ATOM	5016	CA	PHE	X	334	55.025	35.019	40.917	0.00	0.00
ATOM	5017	HA	PHE	X	334	54.871	35.829	40.205	0.00	0.00
ATOM	5018	CB	PHE	X	334	54.389	35.523	42.281	0.00	0.00
ATOM	5019	HB2	PHE	X	334	54.519	34.742	43.031	0.00	0.00
ATOM	5020	HB3	PHE	X	334	54.977	36.354	42.670	0.00	0.00
ATOM	5021	CG	PHE	X	334	52.932	35.890	42.136	0.00	0.00
ATOM	5022	CD1	PHE	X	334	51.862	34.955	42.247	0.00	0.00
ATOM	5023	HD1	PHE	X	334	51.945	33.906	42.488	0.00	0.00
ATOM	5024	CE1	PHE	X	334	50.528	35.435	42.141	0.00	0.00
ATOM	5025	HE1	PHE	X	334	49.729	34.719	42.268	0.00	0.00
ATOM	5026	CZ	PHE	X	334	50.233	36.770	41.902	0.00	0.00
ATOM	5027	HZ	PHE	X	334	49.216	37.129	41.952	0.00	0.00
ATOM	5028	CE2	PHE	X	334	51.337	37.671	41.614	0.00	0.00
ATOM	5029	HE2	PHE	X	334	51.209	38.733	41.468	0.00	0.00
ATOM	5030	CD2	PHE	X	334	52.669	37.213	41.835	0.00	0.00
ATOM	5031	HD2	PHE	X	334	53.502	37.887	41.705	0.00	0.00
ATOM	5032	C	PHE	X	334	56.510	34.786	41.123	0.00	0.00
ATOM	5033	O	PHE	X	334	57.315	35.662	40.934	0.00	0.00
ATOM	5034	N	LEU	X	335	56.964	33.566	41.434	0.00	0.00
ATOM	5035	H	LEU	X	335	56.274	32.837	41.545	0.00	0.00
ATOM	5036	CA	LEU	X	335	58.363	33.259	41.789	0.00	0.00
ATOM	5037	HA	LEU	X	335	58.536	33.758	42.742	0.00	0.00
ATOM	5038	CB	LEU	X	335	58.439	31.722	42.110	0.00	0.00
ATOM	5039	HB2	LEU	X	335	58.358	31.222	41.145	0.00	0.00
ATOM	5040	HB3	LEU	X	335	59.400	31.554	42.595	0.00	0.00
ATOM	5041	CG	LEU	X	335	57.406	31.173	43.049	0.00	0.00
ATOM	5042	HG	LEU	X	335	56.431	31.246	42.567	0.00	0.00
ATOM	5043	CD1	LEU	X	335	57.717	29.693	43.265	0.00	0.00
ATOM	5044	HD11	LEU	X	335	57.800	29.192	42.300	0.00	0.00
ATOM	5045	HD12	LEU	X	335	56.912	29.264	43.862	0.00	0.00
ATOM	5046	HD13	LEU	X	335	58.695	29.481	43.695	0.00	0.00
ATOM	5047	CD2	LEU	X	335	57.282	31.847	44.370	0.00	0.00
ATOM	5048	HD21	LEU	X	335	56.664	31.277	45.064	0.00	0.00
ATOM	5049	HD22	LEU	X	335	58.250	31.832	44.871	0.00	0.00
ATOM	5050	HD23	LEU	X	335	57.021	32.900	44.266	0.00	0.00
ATOM	5051	C	LEU	X	335	59.460	33.641	40.755	0.00	0.00
ATOM	5052	O	LEU	X	335	60.452	34.231	41.149	0.00	0.00
ATOM	5053	N	VAL	X	336	59.130	33.345	39.484	0.00	0.00
ATOM	5054	H	VAL	X	336	58.350	32.728	39.303	0.00	0.00
ATOM	5055	CA	VAL	X	336	60.040	33.543	38.311	0.00	0.00
ATOM	5056	HA	VAL	X	336	61.015	33.181	38.636	0.00	0.00
ATOM	5057	CB	VAL	X	336	59.695	32.614	37.105	0.00	0.00
ATOM	5058	HB	VAL	X	336	60.359	32.869	36.279	0.00	0.00
ATOM	5059	CG1	VAL	X	336	59.954	31.118	37.325	0.00	0.00
ATOM	5060	HG11	VAL	X	336	59.360	30.459	36.691	0.00	0.00
ATOM	5061	HG12	VAL	X	336	61.023	30.987	37.163	0.00	0.00
ATOM	5062	HG13	VAL	X	336	59.704	30.839	38.349	0.00	0.00
ATOM	5063	CG2	VAL	X	336	58.309	32.906	36.539	0.00	0.00
ATOM	5064	HG21	VAL	X	336	58.442	33.817	35.954	0.00	0.00
ATOM	5065	HG22	VAL	X	336	57.652	33.114	37.383	0.00	0.00
ATOM	5066	HG23	VAL	X	336	58.071	32.106	35.838	0.00	0.00
ATOM	5067	C	VAL	X	336	60.153	35.014	37.940	0.00	0.00
ATOM	5068	O	VAL	X	336	61.014	35.384	37.143	0.00	0.00
ATOM	5069	N	TYR	X	337	59.463	35.926	38.697	0.00	0.00
ATOM	5070	H	TYR	X	337	58.826	35.551	39.385	0.00	0.00
ATOM	5071	CA	TYR	X	337	59.680	37.378	38.565	0.00	0.00
ATOM	5072	HA	TYR	X	337	60.157	37.663	37.627	0.00	0.00
ATOM	5073	CB	TYR	X	337	58.245	38.102	38.509	0.00	0.00
ATOM	5074	HB2	TYR	X	337	57.550	37.830	39.303	0.00	0.00
ATOM	5075	HB3	TYR	X	337	58.443	39.168	38.619	0.00	0.00
ATOM	5076	CG	TYR	X	337	57.543	37.836	37.150	0.00	0.00

ATOM	5077	CD1	TYR	X	337	57.697	38.720	36.004	0.00	0.00
ATOM	5078	HD1	TYR	X	337	58.364	39.568	36.052	0.00	0.00
ATOM	5079	CE1	TYR	X	337	57.006	38.441	34.802	0.00	0.00
ATOM	5080	HE1	TYR	X	337	57.162	39.235	34.086	0.00	0.00
ATOM	5081	CZ	TYR	X	337	56.088	37.420	34.685	0.00	0.00
ATOM	5082	OH	TYR	X	337	55.396	37.226	33.516	0.00	0.00
ATOM	5083	HH	TYR	X	337	55.480	37.894	32.832	0.00	0.00
ATOM	5084	CE2	TYR	X	337	56.033	36.505	35.793	0.00	0.00
ATOM	5085	HE2	TYR	X	337	55.304	35.709	35.787	0.00	0.00
ATOM	5086	CD2	TYR	X	337	56.666	36.775	37.030	0.00	0.00
ATOM	5087	HD2	TYR	X	337	56.518	36.075	37.839	0.00	0.00
ATOM	5088	C	TYR	X	337	60.628	38.007	39.614	0.00	0.00
ATOM	5089	O	TYR	X	337	60.716	39.240	39.628	0.00	0.00
ATOM	5090	N	GLY	X	338	61.149	37.261	40.577	0.00	0.00
ATOM	5091	H	GLY	X	338	61.015	36.265	40.477	0.00	0.00
ATOM	5092	CA	GLY	X	338	61.807	37.934	41.717	0.00	0.00
ATOM	5093	HA2	GLY	X	338	62.694	38.461	41.365	0.00	0.00
ATOM	5094	HA3	GLY	X	338	61.156	38.672	42.186	0.00	0.00
ATOM	5095	C	GLY	X	338	62.375	37.072	42.883	0.00	0.00
ATOM	5096	O	GLY	X	338	63.316	37.632	43.551	0.00	0.00
ATOM	5097	N	ALA	X	339	62.001	35.795	43.011	0.00	0.00
ATOM	5098	H	ALA	X	339	61.248	35.458	42.428	0.00	0.00
ATOM	5099	CA	ALA	X	339	62.566	34.882	43.987	0.00	0.00
ATOM	5100	HA	ALA	X	339	62.881	35.386	44.901	0.00	0.00
ATOM	5101	CB	ALA	X	339	61.462	33.822	44.298	0.00	0.00
ATOM	5102	HB1	ALA	X	339	60.514	34.269	44.595	0.00	0.00
ATOM	5103	HB2	ALA	X	339	61.731	33.352	45.243	0.00	0.00
ATOM	5104	HB3	ALA	X	339	61.264	33.044	43.560	0.00	0.00
ATOM	5105	C	ALA	X	339	63.922	34.327	43.512	0.00	0.00
ATOM	5106	O	ALA	X	339	64.244	34.492	42.326	0.00	0.00
ATOM	5107	N	PRO	X	340	64.786	33.729	44.406	0.00	0.00
ATOM	5108	CD	PRO	X	340	64.488	33.386	45.774	0.00	0.00
ATOM	5109	HD2	PRO	X	340	63.584	32.778	45.747	0.00	0.00
ATOM	5110	HD3	PRO	X	340	64.319	34.250	46.417	0.00	0.00
ATOM	5111	CG	PRO	X	340	65.693	32.644	46.333	0.00	0.00
ATOM	5112	HG2	PRO	X	340	65.648	31.562	46.217	0.00	0.00
ATOM	5113	HG3	PRO	X	340	65.939	32.900	47.363	0.00	0.00
ATOM	5114	CB	PRO	X	340	66.829	33.172	45.479	0.00	0.00
ATOM	5115	HB2	PRO	X	340	67.680	32.492	45.447	0.00	0.00
ATOM	5116	HB3	PRO	X	340	67.022	34.118	45.985	0.00	0.00
ATOM	5117	CA	PRO	X	340	66.212	33.480	44.139	0.00	0.00
ATOM	5118	HA	PRO	X	340	66.683	34.359	43.700	0.00	0.00
ATOM	5119	C	PRO	X	340	66.588	32.458	43.071	0.00	0.00
ATOM	5120	O	PRO	X	340	66.663	31.275	43.393	0.00	0.00
ATOM	5121	N	GLY	X	341	66.849	32.947	41.862	0.00	0.00
ATOM	5122	H	GLY	X	341	66.701	33.932	41.695	0.00	0.00
ATOM	5123	CA	GLY	X	341	67.325	32.277	40.705	0.00	0.00
ATOM	5124	HA2	GLY	X	341	67.796	33.029	40.072	0.00	0.00
ATOM	5125	HA3	GLY	X	341	68.141	31.574	40.868	0.00	0.00
ATOM	5126	C	GLY	X	341	66.290	31.615	39.777	0.00	0.00
ATOM	5127	O	GLY	X	341	66.671	31.063	38.725	0.00	0.00
ATOM	5128	N	PHE	X	342	65.032	31.766	40.095	0.00	0.00
ATOM	5129	H	PHE	X	342	64.916	32.181	41.009	0.00	0.00
ATOM	5130	CA	PHE	X	342	63.920	31.269	39.300	0.00	0.00
ATOM	5131	HA	PHE	X	342	63.971	30.182	39.250	0.00	0.00
ATOM	5132	CB	PHE	X	342	62.597	31.573	40.040	0.00	0.00
ATOM	5133	HB2	PHE	X	342	62.722	32.570	40.464	0.00	0.00
ATOM	5134	HB3	PHE	X	342	61.782	31.521	39.318	0.00	0.00
ATOM	5135	CG	PHE	X	342	62.280	30.733	41.181	0.00	0.00
ATOM	5136	CD1	PHE	X	342	61.271	29.744	41.171	0.00	0.00
ATOM	5137	HD1	PHE	X	342	60.692	29.724	40.259	0.00	0.00
ATOM	5138	CE1	PHE	X	342	61.059	28.828	42.215	0.00	0.00
ATOM	5139	HE1	PHE	X	342	60.314	28.054	42.103	0.00	0.00
ATOM	5140	CZ	PHE	X	342	61.966	28.741	43.338	0.00	0.00
ATOM	5141	HZ	PHE	X	342	61.988	27.906	44.023	0.00	0.00
ATOM	5142	CE2	PHE	X	342	62.855	29.848	43.426	0.00	0.00
ATOM	5143	HE2	PHE	X	342	63.494	29.800	44.296	0.00	0.00

ATOM	5144	CD2	PHE	X	342	63.032	30.757	42.324	0.00	0.00
ATOM	5145	HD2	PHE	X	342	63.794	31.518	42.409	0.00	0.00
ATOM	5146	C	PHE	X	342	63.776	31.946	37.930	0.00	0.00
ATOM	5147	O	PHE	X	342	63.724	33.217	37.883	0.00	0.00
ATOM	5148	N	SER	X	343	63.490	31.209	36.811	0.00	0.00
ATOM	5149	H	SER	X	343	63.750	30.236	36.729	0.00	0.00
ATOM	5150	CA	SER	X	343	63.088	31.894	35.507	0.00	0.00
ATOM	5151	HA	SER	X	343	62.297	32.628	35.661	0.00	0.00
ATOM	5152	CB	SER	X	343	64.283	32.682	34.901	0.00	0.00
ATOM	5153	HB2	SER	X	343	63.981	33.283	34.043	0.00	0.00
ATOM	5154	HB3	SER	X	343	64.737	33.420	35.563	0.00	0.00
ATOM	5155	OG	SER	X	343	65.426	31.859	34.478	0.00	0.00
ATOM	5156	HG	SER	X	343	66.160	32.443	34.273	0.00	0.00
ATOM	5157	C	SER	X	343	62.655	30.906	34.499	0.00	0.00
ATOM	5158	O	SER	X	343	62.829	29.695	34.628	0.00	0.00
ATOM	5159	N	LYS	X	344	62.090	31.273	33.354	0.00	0.00
ATOM	5160	H	LYS	X	344	62.149	32.247	33.090	0.00	0.00
ATOM	5161	CA	LYS	X	344	61.714	30.304	32.329	0.00	0.00
ATOM	5162	HA	LYS	X	344	61.089	29.526	32.768	0.00	0.00
ATOM	5163	CB	LYS	X	344	60.697	31.073	31.373	0.00	0.00
ATOM	5164	HB2	LYS	X	344	60.171	30.274	30.850	0.00	0.00
ATOM	5165	HB3	LYS	X	344	59.920	31.566	31.957	0.00	0.00
ATOM	5166	CG	LYS	X	344	61.313	32.045	30.308	0.00	0.00
ATOM	5167	HG2	LYS	X	344	61.438	33.032	30.753	0.00	0.00
ATOM	5168	HG3	LYS	X	344	62.296	31.588	30.192	0.00	0.00
ATOM	5169	CD	LYS	X	344	60.503	32.250	29.003	0.00	0.00
ATOM	5170	HD2	LYS	X	344	59.545	32.696	29.268	0.00	0.00
ATOM	5171	HD3	LYS	X	344	61.064	33.026	28.483	0.00	0.00
ATOM	5172	CE	LYS	X	344	60.420	30.843	28.207	0.00	0.00
ATOM	5173	HE2	LYS	X	344	60.256	29.906	28.739	0.00	0.00
ATOM	5174	HE3	LYS	X	344	59.481	31.060	27.696	0.00	0.00
ATOM	5175	NZ	LYS	X	344	61.510	30.713	27.233	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	62.361	30.340	27.629	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	61.214	30.115	26.476	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	61.826	31.593	26.851	0.00	0.00
ATOM	5179	C	LYS	X	344	62.893	29.601	31.517	0.00	0.00
ATOM	5180	O	LYS	X	344	62.725	28.645	30.755	0.00	0.00
ATOM	5181	N	ASP	X	345	64.141	29.940	31.852	0.00	0.00
ATOM	5182	H	ASP	X	345	64.219	30.660	32.556	0.00	0.00
ATOM	5183	CA	ASP	X	345	65.345	29.158	31.527	0.00	0.00
ATOM	5184	HA	ASP	X	345	65.214	28.601	30.600	0.00	0.00
ATOM	5185	CB	ASP	X	345	66.474	30.123	31.445	0.00	0.00
ATOM	5186	HB2	ASP	X	345	66.316	30.536	30.449	0.00	0.00
ATOM	5187	HB3	ASP	X	345	66.335	30.886	32.211	0.00	0.00
ATOM	5188	CG	ASP	X	345	67.904	29.508	31.442	0.00	0.00
ATOM	5189	OD1	ASP	X	345	68.796	29.930	32.240	0.00	0.00
ATOM	5190	OD2	ASP	X	345	68.215	28.622	30.594	0.00	0.00
ATOM	5191	C	ASP	X	345	65.748	28.237	32.722	0.00	0.00
ATOM	5192	O	ASP	X	345	65.987	27.058	32.499	0.00	0.00
ATOM	5193	N	ASN	X	346	65.838	28.749	33.958	0.00	0.00
ATOM	5194	H	ASN	X	346	65.441	29.669	34.086	0.00	0.00
ATOM	5195	CA	ASN	X	346	66.694	28.193	34.998	0.00	0.00
ATOM	5196	HA	ASN	X	346	67.690	27.989	34.607	0.00	0.00
ATOM	5197	CB	ASN	X	346	66.864	29.283	36.096	0.00	0.00
ATOM	5198	HB2	ASN	X	346	67.300	30.209	35.722	0.00	0.00
ATOM	5199	HB3	ASN	X	346	65.885	29.525	36.510	0.00	0.00
ATOM	5200	CG	ASN	X	346	67.929	28.701	37.206	0.00	0.00
ATOM	5201	OD1	ASN	X	346	67.607	28.196	38.271	0.00	0.00
ATOM	5202	ND2	ASN	X	346	69.220	28.755	36.853	0.00	0.00
ATOM	5203	HD21	ASN	X	346	69.838	28.295	37.506	0.00	0.00
ATOM	5204	HD22	ASN	X	346	69.476	29.160	35.964	0.00	0.00
ATOM	5205	C	ASN	X	346	66.100	26.837	35.576	0.00	0.00
ATOM	5206	O	ASN	X	346	64.895	26.762	35.687	0.00	0.00
ATOM	5207	N	GLU	X	347	66.942	25.883	36.013	0.00	0.00
ATOM	5208	H	GLU	X	347	67.918	25.826	35.758	0.00	0.00
ATOM	5209	CA	GLU	X	347	66.402	24.645	36.634	0.00	0.00
ATOM	5210	HA	GLU	X	347	65.715	24.269	35.876	0.00	0.00

ATOM	5211	CB	GLU	X	347	67.540	23.711	36.914	0.00	0.00
ATOM	5212	HB2	GLU	X	347	68.030	23.497	35.964	0.00	0.00
ATOM	5213	HB3	GLU	X	347	68.149	24.236	37.651	0.00	0.00
ATOM	5214	CG	GLU	X	347	67.171	22.329	37.426	0.00	0.00
ATOM	5215	HG2	GLU	X	347	66.587	22.441	38.339	0.00	0.00
ATOM	5216	HG3	GLU	X	347	66.529	21.827	36.702	0.00	0.00
ATOM	5217	CD	GLU	X	347	68.398	21.525	37.872	0.00	0.00
ATOM	5218	OE1	GLU	X	347	69.418	22.098	38.244	0.00	0.00
ATOM	5219	OE2	GLU	X	347	68.416	20.285	37.921	0.00	0.00
ATOM	5220	C	GLU	X	347	65.521	25.000	37.813	0.00	0.00
ATOM	5221	O	GLU	X	347	64.509	24.344	38.015	0.00	0.00
ATOM	5222	N	SER	X	348	65.792	26.063	38.510	0.00	0.00
ATOM	5223	H	SER	X	348	66.596	26.606	38.229	0.00	0.00
ATOM	5224	CA	SER	X	348	64.985	26.646	39.599	0.00	0.00
ATOM	5225	HA	SER	X	348	65.574	27.504	39.924	0.00	0.00
ATOM	5226	CB	SER	X	348	63.597	27.121	39.039	0.00	0.00
ATOM	5227	HB2	SER	X	348	62.972	26.298	38.694	0.00	0.00
ATOM	5228	HB3	SER	X	348	63.170	27.592	39.924	0.00	0.00
ATOM	5229	OG	SER	X	348	63.761	28.157	38.073	0.00	0.00
ATOM	5230	HG	SER	X	348	64.002	27.698	37.265	0.00	0.00
ATOM	5231	C	SER	X	348	64.856	25.857	40.907	0.00	0.00
ATOM	5232	O	SER	X	348	64.114	26.185	41.841	0.00	0.00
ATOM	5233	N	LEU	X	349	65.696	24.823	41.111	0.00	0.00
ATOM	5234	H	LEU	X	349	66.299	24.662	40.316	0.00	0.00
ATOM	5235	CA	LEU	X	349	66.010	24.132	42.358	0.00	0.00
ATOM	5236	HA	LEU	X	349	65.037	24.002	42.832	0.00	0.00
ATOM	5237	CB	LEU	X	349	66.634	22.783	42.101	0.00	0.00
ATOM	5238	HB2	LEU	X	349	67.460	22.803	41.390	0.00	0.00
ATOM	5239	HB3	LEU	X	349	67.052	22.475	43.059	0.00	0.00
ATOM	5240	CG	LEU	X	349	65.670	21.714	41.536	0.00	0.00
ATOM	5241	HG	LEU	X	349	65.134	22.296	40.786	0.00	0.00
ATOM	5242	CD1	LEU	X	349	66.378	20.561	40.841	0.00	0.00
ATOM	5243	HD11	LEU	X	349	65.741	19.679	40.784	0.00	0.00
ATOM	5244	HD12	LEU	X	349	67.229	20.296	41.468	0.00	0.00
ATOM	5245	HD13	LEU	X	349	66.683	20.896	39.850	0.00	0.00
ATOM	5246	CD2	LEU	X	349	64.637	21.219	42.562	0.00	0.00
ATOM	5247	HD21	LEU	X	349	64.304	22.094	43.120	0.00	0.00
ATOM	5248	HD22	LEU	X	349	63.814	20.800	41.982	0.00	0.00
ATOM	5249	HD23	LEU	X	349	65.041	20.500	43.274	0.00	0.00
ATOM	5250	C	LEU	X	349	66.953	25.020	43.222	0.00	0.00
ATOM	5251	O	LEU	X	349	67.636	25.949	42.781	0.00	0.00
ATOM	5252	N	ILE	X	350	66.853	24.862	44.550	0.00	0.00
ATOM	5253	H	ILE	X	350	66.299	24.137	44.981	0.00	0.00
ATOM	5254	CA	ILE	X	350	67.478	25.791	45.543	0.00	0.00
ATOM	5255	HA	ILE	X	350	68.369	26.289	45.162	0.00	0.00
ATOM	5256	CB	ILE	X	350	66.390	26.887	45.887	0.00	0.00
ATOM	5257	HB	ILE	X	350	66.802	27.403	46.755	0.00	0.00
ATOM	5258	CG2	ILE	X	350	66.217	27.990	44.777	0.00	0.00
ATOM	5259	HG21	ILE	X	350	67.244	28.329	44.638	0.00	0.00
ATOM	5260	HG22	ILE	X	350	65.621	28.871	45.011	0.00	0.00
ATOM	5261	HG23	ILE	X	350	65.880	27.405	43.921	0.00	0.00
ATOM	5262	CG1	ILE	X	350	64.982	26.260	46.305	0.00	0.00
ATOM	5263	HG12	ILE	X	350	64.491	25.823	45.436	0.00	0.00
ATOM	5264	HG13	ILE	X	350	65.127	25.523	47.096	0.00	0.00
ATOM	5265	CD1	ILE	X	350	64.037	27.361	46.727	0.00	0.00
ATOM	5266	HD11	ILE	X	350	62.992	27.065	46.810	0.00	0.00
ATOM	5267	HD12	ILE	X	350	63.943	28.028	45.870	0.00	0.00
ATOM	5268	HD13	ILE	X	350	64.421	27.793	47.651	0.00	0.00
ATOM	5269	C	ILE	X	350	67.890	25.120	46.844	0.00	0.00
ATOM	5270	O	ILE	X	350	67.312	24.077	47.285	0.00	0.00
ATOM	5271	N	SER	X	351	68.942	25.591	47.436	0.00	0.00
ATOM	5272	H	SER	X	351	69.245	26.522	47.186	0.00	0.00
ATOM	5273	CA	SER	X	351	69.375	25.264	48.799	0.00	0.00
ATOM	5274	HA	SER	X	351	69.343	24.174	48.789	0.00	0.00
ATOM	5275	CB	SER	X	351	70.825	25.753	48.969	0.00	0.00
ATOM	5276	HB2	SER	X	351	71.253	25.186	49.796	0.00	0.00
ATOM	5277	HB3	SER	X	351	71.535	25.604	48.155	0.00	0.00

ATOM	5278	OG	SER	X	351	70.874	27.089	49.240	0.00	0.00
ATOM	5279	HG	SER	X	351	70.829	27.520	48.383	0.00	0.00
ATOM	5280	C	SER	X	351	68.555	25.807	49.965	0.00	0.00
ATOM	5281	O	SER	X	351	67.906	26.864	49.855	0.00	0.00
ATOM	5282	N	ARG	X	352	68.591	25.188	51.135	0.00	0.00
ATOM	5283	H	ARG	X	352	69.126	24.339	51.249	0.00	0.00
ATOM	5284	CA	ARG	X	352	67.827	25.633	52.282	0.00	0.00
ATOM	5285	HA	ARG	X	352	66.763	25.602	52.046	0.00	0.00
ATOM	5286	CB	ARG	X	352	68.028	24.683	53.443	0.00	0.00
ATOM	5287	HB2	ARG	X	352	67.684	23.682	53.180	0.00	0.00
ATOM	5288	HB3	ARG	X	352	69.106	24.632	53.599	0.00	0.00
ATOM	5289	CG	ARG	X	352	67.212	25.068	54.664	0.00	0.00
ATOM	5290	HG2	ARG	X	352	67.847	25.802	55.160	0.00	0.00
ATOM	5291	HG3	ARG	X	352	66.273	25.546	54.386	0.00	0.00
ATOM	5292	CD	ARG	X	352	67.058	23.808	55.451	0.00	0.00
ATOM	5293	HD2	ARG	X	352	66.493	23.027	54.942	0.00	0.00
ATOM	5294	HD3	ARG	X	352	68.007	23.288	55.585	0.00	0.00
ATOM	5295	NE	ARG	X	352	66.503	24.021	56.823	0.00	0.00
ATOM	5296	HE	ARG	X	352	67.054	24.576	57.462	0.00	0.00
ATOM	5297	CZ	ARG	X	352	65.405	23.496	57.327	0.00	0.00
ATOM	5298	NH1	ARG	X	352	64.714	22.538	56.789	0.00	0.00
ATOM	5299	HH11	ARG	X	352	64.959	22.209	55.866	0.00	0.00
ATOM	5300	HH12	ARG	X	352	63.944	22.070	57.244	0.00	0.00
ATOM	5301	NH2	ARG	X	352	65.026	23.893	58.519	0.00	0.00
ATOM	5302	HH21	ARG	X	352	65.494	24.549	59.127	0.00	0.00
ATOM	5303	HH22	ARG	X	352	64.066	23.601	58.634	0.00	0.00
ATOM	5304	C	ARG	X	352	68.110	27.135	52.629	0.00	0.00
ATOM	5305	O	ARG	X	352	67.239	27.884	52.980	0.00	0.00
ATOM	5306	N	ALA	X	353	69.367	27.645	52.405	0.00	0.00
ATOM	5307	H	ALA	X	353	70.073	26.932	52.293	0.00	0.00
ATOM	5308	CA	ALA	X	353	69.722	29.060	52.569	0.00	0.00
ATOM	5309	HA	ALA	X	353	69.427	29.376	53.570	0.00	0.00
ATOM	5310	CB	ALA	X	353	71.268	29.290	52.652	0.00	0.00
ATOM	5311	HB1	ALA	X	353	71.726	29.073	51.687	0.00	0.00
ATOM	5312	HB2	ALA	X	353	71.616	28.656	53.467	0.00	0.00
ATOM	5313	HB3	ALA	X	353	71.402	30.348	52.878	0.00	0.00
ATOM	5314	C	ALA	X	353	69.008	29.941	51.454	0.00	0.00
ATOM	5315	O	ALA	X	353	68.513	31.046	51.738	0.00	0.00
ATOM	5316	N	GLU	X	354	68.873	29.448	50.248	0.00	0.00
ATOM	5317	H	GLU	X	354	69.399	28.618	50.017	0.00	0.00
ATOM	5318	CA	GLU	X	354	68.088	30.150	49.183	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.431	31.170	49.014	0.00	0.00
ATOM	5320	CB	GLU	X	354	68.475	29.437	47.873	0.00	0.00
ATOM	5321	HB2	GLU	X	354	68.525	28.359	48.026	0.00	0.00
ATOM	5322	HB3	GLU	X	354	67.770	29.548	47.049	0.00	0.00
ATOM	5323	CG	GLU	X	354	69.813	29.865	47.311	0.00	0.00
ATOM	5324	HG2	GLU	X	354	69.791	30.914	47.016	0.00	0.00
ATOM	5325	HG3	GLU	X	354	70.550	29.645	48.084	0.00	0.00
ATOM	5326	CD	GLU	X	354	70.310	28.918	46.330	0.00	0.00
ATOM	5327	OE1	GLU	X	354	70.286	29.163	45.115	0.00	0.00
ATOM	5328	OE2	GLU	X	354	70.644	27.763	46.662	0.00	0.00
ATOM	5329	C	GLU	X	354	66.577	30.096	49.388	0.00	0.00
ATOM	5330	O	GLU	X	354	65.820	31.054	49.116	0.00	0.00
ATOM	5331	N	PHE	X	355	66.036	29.008	49.907	0.00	0.00
ATOM	5332	H	PHE	X	355	66.681	28.260	50.122	0.00	0.00
ATOM	5333	CA	PHE	X	355	64.643	28.981	50.325	0.00	0.00
ATOM	5334	HA	PHE	X	355	64.024	29.265	49.474	0.00	0.00
ATOM	5335	CB	PHE	X	355	64.418	27.503	50.787	0.00	0.00
ATOM	5336	HB2	PHE	X	355	64.620	26.805	49.974	0.00	0.00
ATOM	5337	HB3	PHE	X	355	65.205	27.193	51.475	0.00	0.00
ATOM	5338	CG	PHE	X	355	63.041	27.379	51.349	0.00	0.00
ATOM	5339	CD1	PHE	X	355	61.928	27.368	50.503	0.00	0.00
ATOM	5340	HD1	PHE	X	355	62.008	27.479	49.432	0.00	0.00
ATOM	5341	CE1	PHE	X	355	60.649	27.143	51.038	0.00	0.00
ATOM	5342	HE1	PHE	X	355	59.802	27.078	50.372	0.00	0.00
ATOM	5343	CZ	PHE	X	355	60.432	26.939	52.449	0.00	0.00
ATOM	5344	HZ	PHE	X	355	59.457	26.750	52.873	0.00	0.00

ATOM	5345	CE2	PHE	X	355	61.559	26.973	53.284	0.00	0.00
ATOM	5346	HE2	PHE	X	355	61.415	26.854	54.347	0.00	0.00
ATOM	5347	CD2	PHE	X	355	62.799	27.321	52.749	0.00	0.00
ATOM	5348	HD2	PHE	X	355	63.649	27.324	53.416	0.00	0.00
ATOM	5349	C	PHE	X	355	64.365	30.034	51.414	0.00	0.00
ATOM	5350	O	PHE	X	355	63.387	30.836	51.390	0.00	0.00
ATOM	5351	N	LEU	X	356	65.307	30.126	52.400	0.00	0.00
ATOM	5352	H	LEU	X	356	66.191	29.638	52.361	0.00	0.00
ATOM	5353	CA	LEU	X	356	65.237	31.186	53.404	0.00	0.00
ATOM	5354	HA	LEU	X	356	64.302	31.180	53.965	0.00	0.00
ATOM	5355	CB	LEU	X	356	66.360	30.867	54.428	0.00	0.00
ATOM	5356	HB2	LEU	X	356	66.195	29.900	54.903	0.00	0.00
ATOM	5357	HB3	LEU	X	356	67.276	30.649	53.878	0.00	0.00
ATOM	5358	CG	LEU	X	356	66.621	31.866	55.527	0.00	0.00
ATOM	5359	HG	LEU	X	356	66.911	32.781	55.010	0.00	0.00
ATOM	5360	CD1	LEU	X	356	65.349	32.174	56.337	0.00	0.00
ATOM	5361	HD11	LEU	X	356	64.577	32.625	55.712	0.00	0.00
ATOM	5362	HD12	LEU	X	356	65.545	32.911	57.115	0.00	0.00
ATOM	5363	HD13	LEU	X	356	64.926	31.345	56.904	0.00	0.00
ATOM	5364	CD2	LEU	X	356	67.774	31.541	56.434	0.00	0.00
ATOM	5365	HD21	LEU	X	356	67.476	30.630	56.953	0.00	0.00
ATOM	5366	HD22	LEU	X	356	68.604	31.397	55.743	0.00	0.00
ATOM	5367	HD23	LEU	X	356	67.917	32.413	57.073	0.00	0.00
ATOM	5368	C	LEU	X	356	65.211	32.670	52.792	0.00	0.00
ATOM	5369	O	LEU	X	356	64.396	33.520	53.205	0.00	0.00
ATOM	5370	N	ALA	X	357	66.005	32.849	51.773	0.00	0.00
ATOM	5371	H	ALA	X	357	66.861	32.316	51.721	0.00	0.00
ATOM	5372	CA	ALA	X	357	65.892	34.111	50.952	0.00	0.00
ATOM	5373	HA	ALA	X	357	66.012	35.018	51.545	0.00	0.00
ATOM	5374	CB	ALA	X	357	66.947	33.980	49.923	0.00	0.00
ATOM	5375	HB1	ALA	X	357	66.969	33.036	49.377	0.00	0.00
ATOM	5376	HB2	ALA	X	357	67.916	34.115	50.404	0.00	0.00
ATOM	5377	HB3	ALA	X	357	66.826	34.775	49.188	0.00	0.00
ATOM	5378	C	ALA	X	357	64.522	34.205	50.297	0.00	0.00
ATOM	5379	O	ALA	X	357	63.913	35.274	50.250	0.00	0.00
ATOM	5380	N	GLY	X	358	64.062	33.097	49.680	0.00	0.00
ATOM	5381	H	GLY	X	358	64.603	32.249	49.765	0.00	0.00
ATOM	5382	CA	GLY	X	358	62.752	33.034	48.954	0.00	0.00
ATOM	5383	HA2	GLY	X	358	62.637	33.771	48.159	0.00	0.00
ATOM	5384	HA3	GLY	X	358	62.627	32.071	48.458	0.00	0.00
ATOM	5385	C	GLY	X	358	61.517	33.237	49.845	0.00	0.00
ATOM	5386	O	GLY	X	358	60.612	33.934	49.399	0.00	0.00
ATOM	5387	N	VAL	X	359	61.521	32.893	51.095	0.00	0.00
ATOM	5388	H	VAL	X	359	62.368	32.434	51.400	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.526	33.203	52.159	0.00	0.00
ATOM	5390	HA	VAL	X	359	59.484	32.968	51.943	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.849	32.262	53.378	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.923	32.288	53.564	0.00	0.00
ATOM	5393	CG1	VAL	X	359	60.099	32.758	54.676	0.00	0.00
ATOM	5394	HG11	VAL	X	359	60.370	33.806	54.801	0.00	0.00
ATOM	5395	HG12	VAL	X	359	59.018	32.650	54.594	0.00	0.00
ATOM	5396	HG13	VAL	X	359	60.400	32.104	55.494	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.359	30.807	52.995	0.00	0.00
ATOM	5398	HG21	VAL	X	359	59.270	30.793	52.957	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.580	30.082	53.779	0.00	0.00
ATOM	5400	HG23	VAL	X	359	60.795	30.500	52.044	0.00	0.00
ATOM	5401	C	VAL	X	359	60.632	34.621	52.567	0.00	0.00
ATOM	5402	O	VAL	X	359	59.568	35.240	52.614	0.00	0.00
ATOM	5403	N	ARG	X	360	61.813	35.162	52.807	0.00	0.00
ATOM	5404	H	ARG	X	360	62.680	34.648	52.874	0.00	0.00
ATOM	5405	CA	ARG	X	360	61.959	36.589	53.075	0.00	0.00
ATOM	5406	HA	ARG	X	360	61.394	36.819	53.978	0.00	0.00
ATOM	5407	CB	ARG	X	360	63.447	36.881	53.391	0.00	0.00
ATOM	5408	HB2	ARG	X	360	63.768	36.102	54.082	0.00	0.00
ATOM	5409	HB3	ARG	X	360	64.001	36.663	52.478	0.00	0.00
ATOM	5410	CG	ARG	X	360	63.630	38.251	54.045	0.00	0.00
ATOM	5411	HG2	ARG	X	360	63.274	39.121	53.492	0.00	0.00

ATOM	5412	HG3	ARG	X	360	63.044	38.258	54.964	0.00	0.00
ATOM	5413	CD	ARG	X	360	65.133	38.444	54.329	0.00	0.00
ATOM	5414	HD2	ARG	X	360	65.324	39.493	54.558	0.00	0.00
ATOM	5415	HD3	ARG	X	360	65.305	37.848	55.225	0.00	0.00
ATOM	5416	NE	ARG	X	360	65.993	38.061	53.192	0.00	0.00
ATOM	5417	HE	ARG	X	360	66.034	38.853	52.566	0.00	0.00
ATOM	5418	CZ	ARG	X	360	67.054	37.218	53.209	0.00	0.00
ATOM	5419	NH1	ARG	X	360	67.047	36.169	53.988	0.00	0.00
ATOM	5420	HH11	ARG	X	360	66.443	36.066	54.791	0.00	0.00
ATOM	5421	HH12	ARG	X	360	67.775	35.482	53.855	0.00	0.00
ATOM	5422	NH2	ARG	X	360	67.992	37.390	52.300	0.00	0.00
ATOM	5423	HH21	ARG	X	360	68.048	38.178	51.670	0.00	0.00
ATOM	5424	HH22	ARG	X	360	68.757	36.731	52.277	0.00	0.00
ATOM	5425	C	ARG	X	360	61.567	37.594	51.986	0.00	0.00
ATOM	5426	O	ARG	X	360	61.082	38.645	52.336	0.00	0.00
ATOM	5427	N	VAL	X	361	61.740	37.299	50.707	0.00	0.00
ATOM	5428	H	VAL	X	361	62.317	36.498	50.493	0.00	0.00
ATOM	5429	CA	VAL	X	361	60.940	38.044	49.664	0.00	0.00
ATOM	5430	HA	VAL	X	361	60.946	39.095	49.952	0.00	0.00
ATOM	5431	CB	VAL	X	361	61.705	38.026	48.312	0.00	0.00
ATOM	5432	HB	VAL	X	361	61.185	38.718	47.650	0.00	0.00
ATOM	5433	CG1	VAL	X	361	63.189	38.465	48.402	0.00	0.00
ATOM	5434	HG11	VAL	X	361	63.699	37.643	48.904	0.00	0.00
ATOM	5435	HG12	VAL	X	361	63.530	38.672	47.387	0.00	0.00
ATOM	5436	HG13	VAL	X	361	63.403	39.406	48.909	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.680	36.637	47.672	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.748	36.072	47.693	0.00	0.00
ATOM	5439	HG22	VAL	X	361	62.443	35.998	48.117	0.00	0.00
ATOM	5440	HG23	VAL	X	361	61.851	36.742	46.601	0.00	0.00
ATOM	5441	C	VAL	X	361	59.481	37.633	49.400	0.00	0.00
ATOM	5442	O	VAL	X	361	58.633	38.448	49.000	0.00	0.00
ATOM	5443	N	GLY	X	362	59.094	36.384	49.739	0.00	0.00
ATOM	5444	H	GLY	X	362	59.851	35.787	50.040	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.829	35.803	49.455	0.00	0.00
ATOM	5446	HA2	GLY	X	362	57.513	36.142	48.469	0.00	0.00
ATOM	5447	HA3	GLY	X	362	58.049	34.741	49.338	0.00	0.00
ATOM	5448	C	GLY	X	362	56.770	36.139	50.494	0.00	0.00
ATOM	5449	O	GLY	X	362	55.585	36.050	50.152	0.00	0.00
ATOM	5450	N	VAL	X	363	57.089	36.469	51.731	0.00	0.00
ATOM	5451	H	VAL	X	363	58.080	36.407	51.915	0.00	0.00
ATOM	5452	CA	VAL	X	363	56.189	37.182	52.713	0.00	0.00
ATOM	5453	HA	VAL	X	363	55.162	37.182	52.350	0.00	0.00
ATOM	5454	CB	VAL	X	363	56.161	36.444	54.064	0.00	0.00
ATOM	5455	HB	VAL	X	363	57.142	36.686	54.473	0.00	0.00
ATOM	5456	CG1	VAL	X	363	55.158	37.064	55.018	0.00	0.00
ATOM	5457	HG11	VAL	X	363	54.128	36.926	54.689	0.00	0.00
ATOM	5458	HG12	VAL	X	363	55.278	36.638	56.014	0.00	0.00
ATOM	5459	HG13	VAL	X	363	55.368	38.127	55.138	0.00	0.00
ATOM	5460	CG2	VAL	X	363	56.014	34.955	53.935	0.00	0.00
ATOM	5461	HG21	VAL	X	363	55.105	34.621	53.435	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.972	34.451	54.900	0.00	0.00
ATOM	5463	HG23	VAL	X	363	56.862	34.399	53.534	0.00	0.00
ATOM	5464	C	VAL	X	363	56.679	38.653	52.738	0.00	0.00
ATOM	5465	O	VAL	X	363	57.712	38.915	53.302	0.00	0.00
ATOM	5466	N	PRO	X	364	55.965	39.589	52.067	0.00	0.00
ATOM	5467	CD	PRO	X	364	54.765	39.443	51.302	0.00	0.00
ATOM	5468	HD2	PRO	X	364	53.904	39.698	51.920	0.00	0.00
ATOM	5469	HD3	PRO	X	364	54.657	38.447	50.874	0.00	0.00
ATOM	5470	CG	PRO	X	364	54.915	40.542	50.222	0.00	0.00
ATOM	5471	HG2	PRO	X	364	53.943	40.779	49.789	0.00	0.00
ATOM	5472	HG3	PRO	X	364	55.673	40.359	49.462	0.00	0.00
ATOM	5473	CB	PRO	X	364	55.472	41.701	51.054	0.00	0.00
ATOM	5474	HB2	PRO	X	364	54.768	42.217	51.706	0.00	0.00
ATOM	5475	HB3	PRO	X	364	55.928	42.486	50.450	0.00	0.00
ATOM	5476	CA	PRO	X	364	56.484	40.934	51.911	0.00	0.00
ATOM	5477	HA	PRO	X	364	57.382	40.863	51.298	0.00	0.00
ATOM	5478	C	PRO	X	364	56.773	41.629	53.236	0.00	0.00

ATOM	5479	O	PRO	X	364	55.986	41.718	54.136	0.00	0.00
ATOM	5480	N	GLN	X	365	57.996	42.140	53.328	0.00	0.00
ATOM	5481	H	GLN	X	365	58.623	41.864	52.586	0.00	0.00
ATOM	5482	CA	GLN	X	365	58.518	42.963	54.394	0.00	0.00
ATOM	5483	HA	GLN	X	365	59.586	43.099	54.229	0.00	0.00
ATOM	5484	CB	GLN	X	365	57.792	44.336	54.496	0.00	0.00
ATOM	5485	HB2	GLN	X	365	56.724	44.138	54.580	0.00	0.00
ATOM	5486	HB3	GLN	X	365	58.070	44.939	55.360	0.00	0.00
ATOM	5487	CG	GLN	X	365	58.070	45.243	53.267	0.00	0.00
ATOM	5488	HG2	GLN	X	365	57.939	44.622	52.381	0.00	0.00
ATOM	5489	HG3	GLN	X	365	57.374	46.082	53.254	0.00	0.00
ATOM	5490	CD	GLN	X	365	59.423	45.952	53.278	0.00	0.00
ATOM	5491	OE1	GLN	X	365	60.339	45.630	54.029	0.00	0.00
ATOM	5492	NE2	GLN	X	365	59.498	47.060	52.500	0.00	0.00
ATOM	5493	HE21	GLN	X	365	60.306	47.665	52.466	0.00	0.00
ATOM	5494	HE22	GLN	X	365	58.700	47.365	51.961	0.00	0.00
ATOM	5495	C	GLN	X	365	58.462	42.156	55.764	0.00	0.00
ATOM	5496	O	GLN	X	365	58.721	42.793	56.820	0.00	0.00
ATOM	5497	N	VAL	X	366	58.291	40.789	55.745	0.00	0.00
ATOM	5498	H	VAL	X	366	57.956	40.334	54.908	0.00	0.00
ATOM	5499	CA	VAL	X	366	58.876	39.951	56.830	0.00	0.00
ATOM	5500	HA	VAL	X	366	58.358	40.216	57.752	0.00	0.00
ATOM	5501	CB	VAL	X	366	58.505	38.436	56.509	0.00	0.00
ATOM	5502	HB	VAL	X	366	57.507	38.465	56.074	0.00	0.00
ATOM	5503	CG1	VAL	X	366	59.433	37.660	55.576	0.00	0.00
ATOM	5504	HG11	VAL	X	366	59.649	38.224	54.669	0.00	0.00
ATOM	5505	HG12	VAL	X	366	60.367	37.379	56.062	0.00	0.00
ATOM	5506	HG13	VAL	X	366	58.881	36.753	55.328	0.00	0.00
ATOM	5507	CG2	VAL	X	366	58.506	37.515	57.806	0.00	0.00
ATOM	5508	HG21	VAL	X	366	57.696	37.965	58.379	0.00	0.00
ATOM	5509	HG22	VAL	X	366	59.437	37.562	58.370	0.00	0.00
ATOM	5510	HG23	VAL	X	366	58.279	36.452	57.725	0.00	0.00
ATOM	5511	C	VAL	X	366	60.329	40.100	57.127	0.00	0.00
ATOM	5512	O	VAL	X	366	61.151	40.040	56.207	0.00	0.00
ATOM	5513	N	SER	X	367	60.740	40.214	58.382	0.00	0.00
ATOM	5514	H	SER	X	367	60.085	40.092	59.142	0.00	0.00
ATOM	5515	CA	SER	X	367	62.146	40.356	58.635	0.00	0.00
ATOM	5516	HA	SER	X	367	62.691	41.084	58.034	0.00	0.00
ATOM	5517	CB	SER	X	367	62.282	40.983	60.028	0.00	0.00
ATOM	5518	HB2	SER	X	367	63.350	41.131	60.188	0.00	0.00
ATOM	5519	HB3	SER	X	367	61.959	42.021	59.951	0.00	0.00
ATOM	5520	OG	SER	X	367	61.737	40.269	61.042	0.00	0.00
ATOM	5521	HG	SER	X	367	62.066	40.575	61.890	0.00	0.00
ATOM	5522	C	SER	X	367	62.949	39.039	58.512	0.00	0.00
ATOM	5523	O	SER	X	367	62.429	37.905	58.566	0.00	0.00
ATOM	5524	N	ASP	X	368	64.261	39.160	58.553	0.00	0.00
ATOM	5525	H	ASP	X	368	64.589	40.093	58.760	0.00	0.00
ATOM	5526	CA	ASP	X	368	65.264	38.119	58.565	0.00	0.00
ATOM	5527	HA	ASP	X	368	65.333	37.731	57.549	0.00	0.00
ATOM	5528	CB	ASP	X	368	66.626	38.765	58.816	0.00	0.00
ATOM	5529	HB2	ASP	X	368	66.862	39.360	57.933	0.00	0.00
ATOM	5530	HB3	ASP	X	368	66.600	39.334	59.745	0.00	0.00
ATOM	5531	CG	ASP	X	368	67.839	37.839	59.007	0.00	0.00
ATOM	5532	OD1	ASP	X	368	68.682	38.122	59.865	0.00	0.00
ATOM	5533	OD2	ASP	X	368	67.828	36.825	58.290	0.00	0.00
ATOM	5534	C	ASP	X	368	65.010	37.049	59.590	0.00	0.00
ATOM	5535	O	ASP	X	368	65.001	35.853	59.201	0.00	0.00
ATOM	5536	N	LEU	X	369	64.778	37.408	60.840	0.00	0.00
ATOM	5537	H	LEU	X	369	64.929	38.396	60.986	0.00	0.00
ATOM	5538	CA	LEU	X	369	64.778	36.466	61.939	0.00	0.00
ATOM	5539	HA	LEU	X	369	65.397	35.616	61.651	0.00	0.00
ATOM	5540	CB	LEU	X	369	65.210	37.201	63.266	0.00	0.00
ATOM	5541	HB2	LEU	X	369	66.221	37.540	63.037	0.00	0.00
ATOM	5542	HB3	LEU	X	369	64.654	38.095	63.550	0.00	0.00
ATOM	5543	CG	LEU	X	369	65.324	36.277	64.531	0.00	0.00
ATOM	5544	HG	LEU	X	369	64.308	36.028	64.838	0.00	0.00
ATOM	5545	CD1	LEU	X	369	66.067	34.948	64.224	0.00	0.00

ATOM	5546	HD11	LEU	X	369	67.111	35.158	63.992	0.00	0.00
ATOM	5547	HD12	LEU	X	369	65.602	34.353	63.438	0.00	0.00
ATOM	5548	HD13	LEU	X	369	65.997	34.200	65.014	0.00	0.00
ATOM	5549	CD2	LEU	X	369	66.082	36.931	65.692	0.00	0.00
ATOM	5550	HD21	LEU	X	369	67.147	36.719	65.589	0.00	0.00
ATOM	5551	HD22	LEU	X	369	65.881	38.002	65.717	0.00	0.00
ATOM	5552	HD23	LEU	X	369	65.740	36.489	66.627	0.00	0.00
ATOM	5553	C	LEU	X	369	63.357	35.814	61.977	0.00	0.00
ATOM	5554	O	LEU	X	369	63.229	34.640	62.426	0.00	0.00
ATOM	5555	N	ALA	X	370	62.338	36.456	61.458	0.00	0.00
ATOM	5556	H	ALA	X	370	62.419	37.338	60.973	0.00	0.00
ATOM	5557	CA	ALA	X	370	61.071	35.837	61.268	0.00	0.00
ATOM	5558	HA	ALA	X	370	60.831	35.277	62.172	0.00	0.00
ATOM	5559	CB	ALA	X	370	60.019	36.918	61.210	0.00	0.00
ATOM	5560	HB1	ALA	X	370	59.994	37.342	60.206	0.00	0.00
ATOM	5561	HB2	ALA	X	370	60.077	37.693	61.974	0.00	0.00
ATOM	5562	HB3	ALA	X	370	59.017	36.493	61.157	0.00	0.00
ATOM	5563	C	ALA	X	370	61.109	34.833	60.081	0.00	0.00
ATOM	5564	O	ALA	X	370	60.538	33.742	60.244	0.00	0.00
ATOM	5565	N	ALA	X	371	61.733	35.122	58.958	0.00	0.00
ATOM	5566	H	ALA	X	371	61.958	36.093	58.792	0.00	0.00
ATOM	5567	CA	ALA	X	371	61.989	34.178	57.848	0.00	0.00
ATOM	5568	HA	ALA	X	371	61.016	33.790	57.544	0.00	0.00
ATOM	5569	CB	ALA	X	371	62.716	34.824	56.689	0.00	0.00
ATOM	5570	HB1	ALA	X	371	62.085	35.657	56.382	0.00	0.00
ATOM	5571	HB2	ALA	X	371	62.728	34.140	55.840	0.00	0.00
ATOM	5572	HB3	ALA	X	371	63.706	35.194	56.958	0.00	0.00
ATOM	5573	C	ALA	X	371	62.727	32.968	58.377	0.00	0.00
ATOM	5574	O	ALA	X	371	62.185	31.831	58.096	0.00	0.00
ATOM	5575	N	GLU	X	372	63.668	33.023	59.230	0.00	0.00
ATOM	5576	H	GLU	X	372	64.136	33.911	59.347	0.00	0.00
ATOM	5577	CA	GLU	X	372	64.257	31.821	59.963	0.00	0.00
ATOM	5578	HA	GLU	X	372	64.649	31.151	59.198	0.00	0.00
ATOM	5579	CB	GLU	X	372	65.430	32.272	60.854	0.00	0.00
ATOM	5580	HB2	GLU	X	372	65.158	33.227	61.303	0.00	0.00
ATOM	5581	HB3	GLU	X	372	65.459	31.478	61.601	0.00	0.00
ATOM	5582	CG	GLU	X	372	66.778	32.315	60.137	0.00	0.00
ATOM	5583	HG2	GLU	X	372	67.063	31.376	59.662	0.00	0.00
ATOM	5584	HG3	GLU	X	372	66.847	33.070	59.353	0.00	0.00
ATOM	5585	CD	GLU	X	372	67.904	32.568	61.183	0.00	0.00
ATOM	5586	OE1	GLU	X	372	68.421	33.702	61.273	0.00	0.00
ATOM	5587	OE2	GLU	X	372	68.245	31.591	61.918	0.00	0.00
ATOM	5588	C	GLU	X	372	63.198	30.970	60.732	0.00	0.00
ATOM	5589	O	GLU	X	372	63.198	29.717	60.492	0.00	0.00
ATOM	5590	N	ALA	X	373	62.321	31.574	61.519	0.00	0.00
ATOM	5591	H	ALA	X	373	62.675	32.452	61.872	0.00	0.00
ATOM	5592	CA	ALA	X	373	61.254	30.953	62.228	0.00	0.00
ATOM	5593	HA	ALA	X	373	61.603	30.133	62.857	0.00	0.00
ATOM	5594	CB	ALA	X	373	60.619	32.024	63.141	0.00	0.00
ATOM	5595	HB1	ALA	X	373	61.372	32.741	63.467	0.00	0.00
ATOM	5596	HB2	ALA	X	373	60.273	31.548	64.058	0.00	0.00
ATOM	5597	HB3	ALA	X	373	59.851	32.628	62.656	0.00	0.00
ATOM	5598	C	ALA	X	373	60.247	30.293	61.261	0.00	0.00
ATOM	5599	O	ALA	X	373	59.713	29.215	61.450	0.00	0.00
ATOM	5600	N	VAL	X	374	59.976	30.989	60.140	0.00	0.00
ATOM	5601	H	VAL	X	374	60.279	31.953	60.128	0.00	0.00
ATOM	5602	CA	VAL	X	374	59.090	30.504	59.038	0.00	0.00
ATOM	5603	HA	VAL	X	374	58.130	30.120	59.381	0.00	0.00
ATOM	5604	CB	VAL	X	374	58.745	31.655	58.059	0.00	0.00
ATOM	5605	HB	VAL	X	374	59.680	31.962	57.590	0.00	0.00
ATOM	5606	CG1	VAL	X	374	57.938	31.094	56.875	0.00	0.00
ATOM	5607	HG11	VAL	X	374	57.078	30.459	57.089	0.00	0.00
ATOM	5608	HG12	VAL	X	374	57.603	31.880	56.198	0.00	0.00
ATOM	5609	HG13	VAL	X	374	58.535	30.453	56.226	0.00	0.00
ATOM	5610	CG2	VAL	X	374	58.067	32.836	58.784	0.00	0.00
ATOM	5611	HG21	VAL	X	374	56.988	32.693	58.730	0.00	0.00
ATOM	5612	HG22	VAL	X	374	58.422	33.807	58.439	0.00	0.00

ATOM	5613	HG23	VAL	X	374	58.277	32.794	59.853	0.00	0.00
ATOM	5614	C	VAL	X	374	59.758	29.348	58.278	0.00	0.00
ATOM	5615	O	VAL	X	374	59.033	28.387	57.974	0.00	0.00
ATOM	5616	N	VAL	X	375	61.027	29.343	58.042	0.00	0.00
ATOM	5617	H	VAL	X	375	61.606	30.125	58.315	0.00	0.00
ATOM	5618	CA	VAL	X	375	61.663	28.178	57.446	0.00	0.00
ATOM	5619	HA	VAL	X	375	61.219	27.908	56.488	0.00	0.00
ATOM	5620	CB	VAL	X	375	63.130	28.610	57.149	0.00	0.00
ATOM	5621	HB	VAL	X	375	63.510	29.101	58.045	0.00	0.00
ATOM	5622	CG1	VAL	X	375	64.110	27.430	57.041	0.00	0.00
ATOM	5623	HG11	VAL	X	375	65.160	27.669	56.870	0.00	0.00
ATOM	5624	HG12	VAL	X	375	64.144	26.922	58.005	0.00	0.00
ATOM	5625	HG13	VAL	X	375	63.731	26.699	56.326	0.00	0.00
ATOM	5626	CG2	VAL	X	375	63.174	29.504	55.913	0.00	0.00
ATOM	5627	HG21	VAL	X	375	62.651	29.012	55.093	0.00	0.00
ATOM	5628	HG22	VAL	X	375	64.239	29.562	55.688	0.00	0.00
ATOM	5629	HG23	VAL	X	375	62.799	30.509	56.106	0.00	0.00
ATOM	5630	C	VAL	X	375	61.548	26.933	58.343	0.00	0.00
ATOM	5631	O	VAL	X	375	61.218	25.846	57.911	0.00	0.00
ATOM	5632	N	LEU	X	376	61.743	27.107	59.662	0.00	0.00
ATOM	5633	H	LEU	X	376	61.924	28.024	60.044	0.00	0.00
ATOM	5634	CA	LEU	X	376	61.528	26.096	60.571	0.00	0.00
ATOM	5635	HA	LEU	X	376	62.210	25.320	60.221	0.00	0.00
ATOM	5636	CB	LEU	X	376	61.855	26.546	62.061	0.00	0.00
ATOM	5637	HB2	LEU	X	376	62.470	27.446	62.039	0.00	0.00
ATOM	5638	HB3	LEU	X	376	60.888	26.808	62.489	0.00	0.00
ATOM	5639	CG	LEU	X	376	62.552	25.513	63.021	0.00	0.00
ATOM	5640	HG	LEU	X	376	61.886	24.651	63.055	0.00	0.00
ATOM	5641	CD1	LEU	X	376	63.917	25.160	62.348	0.00	0.00
ATOM	5642	HD11	LEU	X	376	64.557	26.010	62.115	0.00	0.00
ATOM	5643	HD12	LEU	X	376	63.882	24.601	61.413	0.00	0.00
ATOM	5644	HD13	LEU	X	376	64.419	24.554	63.102	0.00	0.00
ATOM	5645	CD2	LEU	X	376	62.691	26.174	64.375	0.00	0.00
ATOM	5646	HD21	LEU	X	376	61.762	26.588	64.766	0.00	0.00
ATOM	5647	HD22	LEU	X	376	63.101	25.414	65.041	0.00	0.00
ATOM	5648	HD23	LEU	X	376	63.436	26.966	64.302	0.00	0.00
ATOM	5649	C	LEU	X	376	60.116	25.504	60.410	0.00	0.00
ATOM	5650	O	LEU	X	376	59.956	24.258	60.605	0.00	0.00
ATOM	5651	N	HIE	X	377	59.052	26.279	60.189	0.00	0.00
ATOM	5652	H	HIE	X	377	59.353	27.239	60.277	0.00	0.00
ATOM	5653	CA	HIE	X	377	57.622	25.803	60.094	0.00	0.00
ATOM	5654	HA	HIE	X	377	57.576	25.053	60.884	0.00	0.00
ATOM	5655	CB	HIE	X	377	56.627	27.020	60.285	0.00	0.00
ATOM	5656	HB2	HIE	X	377	57.036	27.662	61.065	0.00	0.00
ATOM	5657	HB3	HIE	X	377	56.667	27.535	59.325	0.00	0.00
ATOM	5658	CG	HIE	X	377	55.138	26.755	60.578	0.00	0.00
ATOM	5659	ND1	HIE	X	377	54.531	26.310	61.761	0.00	0.00
ATOM	5660	CE1	HIE	X	377	53.261	26.131	61.506	0.00	0.00
ATOM	5661	HE1	HIE	X	377	52.621	25.747	62.286	0.00	0.00
ATOM	5662	NE2	HIE	X	377	52.966	26.458	60.224	0.00	0.00
ATOM	5663	HE2	HIE	X	377	52.162	26.276	59.641	0.00	0.00
ATOM	5664	CD2	HIE	X	377	54.194	26.731	59.663	0.00	0.00
ATOM	5665	HD2	HIE	X	377	54.401	26.898	58.616	0.00	0.00
ATOM	5666	C	HIE	X	377	57.266	25.186	58.769	0.00	0.00
ATOM	5667	O	HIE	X	377	56.235	24.482	58.682	0.00	0.00
ATOM	5668	N	TYR	X	378	58.135	25.335	57.762	0.00	0.00
ATOM	5669	H	TYR	X	378	58.828	26.049	57.941	0.00	0.00
ATOM	5670	CA	TYR	X	378	57.856	24.726	56.454	0.00	0.00
ATOM	5671	HA	TYR	X	378	56.852	24.308	56.383	0.00	0.00
ATOM	5672	CB	TYR	X	378	57.964	25.696	55.306	0.00	0.00
ATOM	5673	HB2	TYR	X	378	58.817	26.338	55.526	0.00	0.00
ATOM	5674	HB3	TYR	X	378	58.235	25.141	54.408	0.00	0.00
ATOM	5675	CG	TYR	X	378	56.596	26.231	55.013	0.00	0.00
ATOM	5676	CD1	TYR	X	378	55.892	25.880	53.826	0.00	0.00
ATOM	5677	HD1	TYR	X	378	56.413	25.344	53.047	0.00	0.00
ATOM	5678	CE1	TYR	X	378	54.589	26.413	53.465	0.00	0.00
ATOM	5679	HE1	TYR	X	378	54.092	26.264	52.518	0.00	0.00

ATOM	5680	CZ	TYR	X	378	54.051	27.350	54.337	0.00	0.00
ATOM	5681	OH	TYR	X	378	52.847	27.885	54.097	0.00	0.00
ATOM	5682	HH	TYR	X	378	52.548	27.796	53.189	0.00	0.00
ATOM	5683	CE2	TYR	X	378	54.712	27.703	55.530	0.00	0.00
ATOM	5684	HE2	TYR	X	378	54.248	28.440	56.169	0.00	0.00
ATOM	5685	CD2	TYR	X	378	55.908	27.107	55.923	0.00	0.00
ATOM	5686	HD2	TYR	X	378	56.394	27.388	56.845	0.00	0.00
ATOM	5687	C	TYR	X	378	58.851	23.558	56.377	0.00	0.00
ATOM	5688	O	TYR	X	378	59.109	23.138	55.250	0.00	0.00
ATOM	5689	N	THR	X	379	59.510	23.115	57.471	0.00	0.00
ATOM	5690	H	THR	X	379	59.279	23.457	58.393	0.00	0.00
ATOM	5691	CA	THR	X	379	60.576	21.990	57.388	0.00	0.00
ATOM	5692	HA	THR	X	379	61.155	22.114	56.473	0.00	0.00
ATOM	5693	CB	THR	X	379	61.612	22.098	58.482	0.00	0.00
ATOM	5694	HB	THR	X	379	61.198	22.144	59.489	0.00	0.00
ATOM	5695	CG2	THR	X	379	62.662	20.944	58.685	0.00	0.00
ATOM	5696	HG21	THR	X	379	63.091	20.696	57.715	0.00	0.00
ATOM	5697	HG22	THR	X	379	62.165	20.093	59.150	0.00	0.00
ATOM	5698	HG23	THR	X	379	63.477	21.279	59.327	0.00	0.00
ATOM	5699	OG1	THR	X	379	62.173	23.366	58.301	0.00	0.00
ATOM	5700	HG1	THR	X	379	61.679	23.970	57.742	0.00	0.00
ATOM	5701	C	THR	X	379	59.822	20.707	57.587	0.00	0.00
ATOM	5702	O	THR	X	379	58.895	20.634	58.397	0.00	0.00
ATOM	5703	N	ASP	X	380	60.258	19.701	56.814	0.00	0.00
ATOM	5704	H	ASP	X	380	60.899	19.889	56.057	0.00	0.00
ATOM	5705	CA	ASP	X	380	59.819	18.316	56.885	0.00	0.00
ATOM	5706	HA	ASP	X	380	58.830	18.244	57.337	0.00	0.00
ATOM	5707	CB	ASP	X	380	59.487	17.835	55.482	0.00	0.00
ATOM	5708	HB2	ASP	X	380	58.916	18.510	54.846	0.00	0.00
ATOM	5709	HB3	ASP	X	380	60.369	17.574	54.897	0.00	0.00
ATOM	5710	CG	ASP	X	380	58.850	16.464	55.537	0.00	0.00
ATOM	5711	OD1	ASP	X	380	57.730	16.285	54.944	0.00	0.00
ATOM	5712	OD2	ASP	X	380	59.404	15.590	56.182	0.00	0.00
ATOM	5713	C	ASP	X	380	61.017	17.514	57.460	0.00	0.00
ATOM	5714	O	ASP	X	380	62.052	17.403	56.845	0.00	0.00
ATOM	5715	N	TRP	X	381	60.942	17.059	58.683	0.00	0.00
ATOM	5716	H	TRP	X	381	60.176	17.334	59.281	0.00	0.00
ATOM	5717	CA	TRP	X	381	62.127	16.577	59.380	0.00	0.00
ATOM	5718	HA	TRP	X	381	62.930	17.261	59.106	0.00	0.00
ATOM	5719	CB	TRP	X	381	61.913	16.678	60.880	0.00	0.00
ATOM	5720	HB2	TRP	X	381	60.959	16.208	61.118	0.00	0.00
ATOM	5721	HB3	TRP	X	381	62.710	16.150	61.403	0.00	0.00
ATOM	5722	CG	TRP	X	381	61.925	18.021	61.429	0.00	0.00
ATOM	5723	CD1	TRP	X	381	60.830	18.657	61.870	0.00	0.00
ATOM	5724	HD1	TRP	X	381	59.834	18.247	61.952	0.00	0.00
ATOM	5725	NE1	TRP	X	381	61.123	19.940	62.364	0.00	0.00
ATOM	5726	HE1	TRP	X	381	60.407	20.567	62.704	0.00	0.00
ATOM	5727	CE2	TRP	X	381	62.480	20.262	62.118	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	63.332	21.374	62.297	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	62.907	22.311	62.624	0.00	0.00
ATOM	5730	CH2	TRP	X	381	64.695	21.300	61.960	0.00	0.00
ATOM	5731	HH2	TRP	X	381	65.312	22.179	62.072	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	65.248	20.137	61.610	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	66.267	20.092	61.255	0.00	0.00
ATOM	5734	CE3	TRP	X	381	64.435	18.990	61.495	0.00	0.00
ATOM	5735	HE3	TRP	X	381	64.923	18.063	61.232	0.00	0.00
ATOM	5736	CD2	TRP	X	381	63.016	19.001	61.662	0.00	0.00
ATOM	5737	C	TRP	X	381	62.566	15.168	58.849	0.00	0.00
ATOM	5738	O	TRP	X	381	63.696	14.708	59.154	0.00	0.00
ATOM	5739	N	LEU	X	382	61.868	14.535	57.865	0.00	0.00
ATOM	5740	H	LEU	X	382	61.057	15.043	57.541	0.00	0.00
ATOM	5741	CA	LEU	X	382	62.336	13.409	57.134	0.00	0.00
ATOM	5742	HA	LEU	X	382	63.048	12.872	57.760	0.00	0.00
ATOM	5743	CB	LEU	X	382	61.119	12.489	56.864	0.00	0.00
ATOM	5744	HB2	LEU	X	382	60.726	12.204	57.840	0.00	0.00
ATOM	5745	HB3	LEU	X	382	60.437	13.089	56.261	0.00	0.00
ATOM	5746	CG	LEU	X	382	61.331	11.193	56.023	0.00	0.00

ATOM	5747	HG	LEU	X	382	61.646	11.560	55.046	0.00	0.00
ATOM	5748	CD1	LEU	X	382	62.310	10.222	56.637	0.00	0.00
ATOM	5749	HD11	LEU	X	382	63.324	10.524	56.376	0.00	0.00
ATOM	5750	HD12	LEU	X	382	62.101	9.198	56.327	0.00	0.00
ATOM	5751	HD13	LEU	X	382	62.165	10.279	57.715	0.00	0.00
ATOM	5752	CD2	LEU	X	382	60.051	10.470	55.604	0.00	0.00
ATOM	5753	HD21	LEU	X	382	60.173	9.768	54.779	0.00	0.00
ATOM	5754	HD22	LEU	X	382	59.597	10.010	56.482	0.00	0.00
ATOM	5755	HD23	LEU	X	382	59.326	11.183	55.213	0.00	0.00
ATOM	5756	C	LEU	X	382	63.000	13.861	55.834	0.00	0.00
ATOM	5757	O	LEU	X	382	63.861	13.166	55.303	0.00	0.00
ATOM	5758	N	HIE	X	383	62.564	15.035	55.313	0.00	0.00
ATOM	5759	H	HIE	X	383	61.939	15.563	55.905	0.00	0.00
ATOM	5760	CA	HIE	X	383	63.076	15.661	54.030	0.00	0.00
ATOM	5761	HA	HIE	X	383	63.960	15.073	53.784	0.00	0.00
ATOM	5762	CB	HIE	X	383	61.889	15.529	52.923	0.00	0.00
ATOM	5763	HB2	HIE	X	383	61.012	16.125	53.176	0.00	0.00
ATOM	5764	HB3	HIE	X	383	62.296	15.819	51.955	0.00	0.00
ATOM	5765	CG	HIE	X	383	61.272	14.157	52.870	0.00	0.00
ATOM	5766	ND1	HIE	X	383	61.839	13.006	52.241	0.00	0.00
ATOM	5767	CE1	HIE	X	383	60.955	12.026	52.408	0.00	0.00
ATOM	5768	HE1	HIE	X	383	61.040	11.004	52.068	0.00	0.00
ATOM	5769	NE2	HIE	X	383	59.814	12.512	52.990	0.00	0.00
ATOM	5770	HE2	HIE	X	383	58.959	12.000	53.151	0.00	0.00
ATOM	5771	CD2	HIE	X	383	60.043	13.769	53.381	0.00	0.00
ATOM	5772	HD2	HIE	X	383	59.334	14.394	53.905	0.00	0.00
ATOM	5773	C	HIE	X	383	63.653	17.073	54.233	0.00	0.00
ATOM	5774	O	HIE	X	383	63.421	17.951	53.418	0.00	0.00
ATOM	5775	N	PRO	X	384	64.464	17.410	55.245	0.00	0.00
ATOM	5776	CD	PRO	X	384	65.150	16.533	56.110	0.00	0.00
ATOM	5777	HD2	PRO	X	384	65.695	15.684	55.698	0.00	0.00
ATOM	5778	HD3	PRO	X	384	64.420	15.989	56.709	0.00	0.00
ATOM	5779	CG	PRO	X	384	66.041	17.333	57.028	0.00	0.00
ATOM	5780	HG2	PRO	X	384	67.017	17.422	56.552	0.00	0.00
ATOM	5781	HG3	PRO	X	384	66.110	17.036	58.074	0.00	0.00
ATOM	5782	CB	PRO	X	384	65.377	18.693	56.983	0.00	0.00
ATOM	5783	HB2	PRO	X	384	66.121	19.457	57.208	0.00	0.00
ATOM	5784	HB3	PRO	X	384	64.585	18.674	57.732	0.00	0.00
ATOM	5785	CA	PRO	X	384	64.708	18.805	55.650	0.00	0.00
ATOM	5786	HA	PRO	X	384	63.731	19.271	55.782	0.00	0.00
ATOM	5787	C	PRO	X	384	65.592	19.594	54.696	0.00	0.00
ATOM	5788	O	PRO	X	384	65.445	20.822	54.679	0.00	0.00
ATOM	5789	N	GLU	X	385	66.491	18.958	53.941	0.00	0.00
ATOM	5790	H	GLU	X	385	66.541	17.950	53.952	0.00	0.00
ATOM	5791	CA	GLU	X	385	67.210	19.577	52.863	0.00	0.00
ATOM	5792	HA	GLU	X	385	67.090	20.658	52.932	0.00	0.00
ATOM	5793	CB	GLU	X	385	68.690	19.261	53.188	0.00	0.00
ATOM	5794	HB2	GLU	X	385	68.920	18.218	53.404	0.00	0.00
ATOM	5795	HB3	GLU	X	385	69.262	19.537	52.302	0.00	0.00
ATOM	5796	CG	GLU	X	385	69.209	20.224	54.334	0.00	0.00
ATOM	5797	HG2	GLU	X	385	68.808	21.197	54.051	0.00	0.00
ATOM	5798	HG3	GLU	X	385	68.763	19.900	55.275	0.00	0.00
ATOM	5799	CD	GLU	X	385	70.688	20.320	54.403	0.00	0.00
ATOM	5800	OE1	GLU	X	385	71.344	21.099	53.685	0.00	0.00
ATOM	5801	OE2	GLU	X	385	71.207	19.522	55.239	0.00	0.00
ATOM	5802	C	GLU	X	385	66.714	19.296	51.416	0.00	0.00
ATOM	5803	O	GLU	X	385	67.375	19.678	50.465	0.00	0.00
ATOM	5804	N	ASP	X	386	65.558	18.686	51.246	0.00	0.00
ATOM	5805	H	ASP	X	386	65.132	18.297	52.074	0.00	0.00
ATOM	5806	CA	ASP	X	386	65.043	18.228	49.908	0.00	0.00
ATOM	5807	HA	ASP	X	386	65.903	17.681	49.520	0.00	0.00
ATOM	5808	CB	ASP	X	386	63.930	17.225	49.985	0.00	0.00
ATOM	5809	HB2	ASP	X	386	64.257	16.417	50.639	0.00	0.00
ATOM	5810	HB3	ASP	X	386	63.060	17.639	50.494	0.00	0.00
ATOM	5811	CG	ASP	X	386	63.564	16.687	48.602	0.00	0.00
ATOM	5812	OD1	ASP	X	386	64.138	15.631	48.276	0.00	0.00
ATOM	5813	OD2	ASP	X	386	62.771	17.234	47.804	0.00	0.00

ATOM	5814	C	ASP	X	386	64.776	19.352	48.893	0.00	0.00
ATOM	5815	O	ASP	X	386	63.758	20.068	49.045	0.00	0.00
ATOM	5816	N	PRO	X	387	65.620	19.531	47.893	0.00	0.00
ATOM	5817	CD	PRO	X	387	66.735	18.602	47.497	0.00	0.00
ATOM	5818	HD2	PRO	X	387	66.556	17.528	47.455	0.00	0.00
ATOM	5819	HD3	PRO	X	387	67.524	18.827	48.216	0.00	0.00
ATOM	5820	CG	PRO	X	387	67.117	19.103	46.068	0.00	0.00
ATOM	5821	HG2	PRO	X	387	66.449	18.708	45.302	0.00	0.00
ATOM	5822	HG3	PRO	X	387	68.176	18.901	45.906	0.00	0.00
ATOM	5823	CB	PRO	X	387	66.876	20.631	46.166	0.00	0.00
ATOM	5824	HB2	PRO	X	387	66.499	21.109	45.261	0.00	0.00
ATOM	5825	HB3	PRO	X	387	67.746	21.154	46.561	0.00	0.00
ATOM	5826	CA	PRO	X	387	65.640	20.683	47.047	0.00	0.00
ATOM	5827	HA	PRO	X	387	65.713	21.615	47.607	0.00	0.00
ATOM	5828	C	PRO	X	387	64.338	20.844	46.281	0.00	0.00
ATOM	5829	O	PRO	X	387	63.702	21.887	46.299	0.00	0.00
ATOM	5830	N	ALA	X	388	63.872	19.759	45.596	0.00	0.00
ATOM	5831	H	ALA	X	388	64.306	18.865	45.774	0.00	0.00
ATOM	5832	CA	ALA	X	388	62.578	19.763	44.920	0.00	0.00
ATOM	5833	HA	ALA	X	388	62.624	20.661	44.303	0.00	0.00
ATOM	5834	CB	ALA	X	388	62.368	18.605	43.996	0.00	0.00
ATOM	5835	HB1	ALA	X	388	62.259	17.767	44.685	0.00	0.00
ATOM	5836	HB2	ALA	X	388	63.211	18.440	43.325	0.00	0.00
ATOM	5837	HB3	ALA	X	388	61.428	18.753	43.466	0.00	0.00
ATOM	5838	C	ALA	X	388	61.360	20.008	45.938	0.00	0.00
ATOM	5839	O	ALA	X	388	60.425	20.670	45.622	0.00	0.00
ATOM	5840	N	ARG	X	389	61.388	19.510	47.173	0.00	0.00
ATOM	5841	H	ARG	X	389	62.153	18.922	47.471	0.00	0.00
ATOM	5842	CA	ARG	X	389	60.378	19.796	48.130	0.00	0.00
ATOM	5843	HA	ARG	X	389	59.382	19.608	47.731	0.00	0.00
ATOM	5844	CB	ARG	X	389	60.332	18.883	49.384	0.00	0.00
ATOM	5845	HB2	ARG	X	389	60.346	17.876	48.968	0.00	0.00
ATOM	5846	HB3	ARG	X	389	61.229	18.982	49.996	0.00	0.00
ATOM	5847	CG	ARG	X	389	59.139	19.079	50.405	0.00	0.00
ATOM	5848	HG2	ARG	X	389	59.371	20.058	50.825	0.00	0.00
ATOM	5849	HG3	ARG	X	389	58.140	19.170	49.978	0.00	0.00
ATOM	5850	CD	ARG	X	389	59.177	18.013	51.581	0.00	0.00
ATOM	5851	HD2	ARG	X	389	60.201	17.907	51.939	0.00	0.00
ATOM	5852	HD3	ARG	X	389	58.549	18.252	52.439	0.00	0.00
ATOM	5853	NE	ARG	X	389	58.803	16.658	51.211	0.00	0.00
ATOM	5854	HE	ARG	X	389	59.565	16.032	50.991	0.00	0.00
ATOM	5855	CZ	ARG	X	389	57.614	16.133	51.286	0.00	0.00
ATOM	5856	NH1	ARG	X	389	56.476	16.821	51.492	0.00	0.00
ATOM	5857	HH11	ARG	X	389	56.543	17.790	51.771	0.00	0.00
ATOM	5858	HH12	ARG	X	389	55.620	16.360	51.221	0.00	0.00
ATOM	5859	NH2	ARG	X	389	57.442	14.850	50.949	0.00	0.00
ATOM	5860	HH21	ARG	X	389	58.269	14.376	50.615	0.00	0.00
ATOM	5861	HH22	ARG	X	389	56.620	14.405	51.331	0.00	0.00
ATOM	5862	C	ARG	X	389	60.422	21.252	48.518	0.00	0.00
ATOM	5863	O	ARG	X	389	59.374	21.875	48.580	0.00	0.00
ATOM	5864	N	LEU	X	390	61.650	21.932	48.599	0.00	0.00
ATOM	5865	H	LEU	X	390	62.487	21.376	48.491	0.00	0.00
ATOM	5866	CA	LEU	X	390	61.906	23.357	48.882	0.00	0.00
ATOM	5867	HA	LEU	X	390	61.434	23.587	49.838	0.00	0.00
ATOM	5868	CB	LEU	X	390	63.397	23.643	49.131	0.00	0.00
ATOM	5869	HB2	LEU	X	390	64.026	23.132	48.402	0.00	0.00
ATOM	5870	HB3	LEU	X	390	63.483	24.728	49.190	0.00	0.00
ATOM	5871	CG	LEU	X	390	63.980	23.175	50.442	0.00	0.00
ATOM	5872	HG	LEU	X	390	64.051	22.089	50.390	0.00	0.00
ATOM	5873	CD1	LEU	X	390	65.425	23.645	50.584	0.00	0.00
ATOM	5874	HD11	LEU	X	390	65.538	24.721	50.713	0.00	0.00
ATOM	5875	HD12	LEU	X	390	65.987	23.435	49.673	0.00	0.00
ATOM	5876	HD13	LEU	X	390	66.029	23.178	51.362	0.00	0.00
ATOM	5877	CD2	LEU	X	390	63.284	23.545	51.820	0.00	0.00
ATOM	5878	HD21	LEU	X	390	63.907	23.052	52.566	0.00	0.00
ATOM	5879	HD22	LEU	X	390	63.369	24.601	52.079	0.00	0.00
ATOM	5880	HD23	LEU	X	390	62.307	23.093	51.990	0.00	0.00

ATOM	5881	C	LEU	X	390	61.385	24.304	47.813	0.00	0.00
ATOM	5882	O	LEU	X	390	60.871	25.391	48.051	0.00	0.00
ATOM	5883	N	ARG	X	391	61.436	23.867	46.553	0.00	0.00
ATOM	5884	H	ARG	X	391	62.067	23.099	46.373	0.00	0.00
ATOM	5885	CA	ARG	X	391	60.794	24.504	45.344	0.00	0.00
ATOM	5886	HA	ARG	X	391	61.017	25.571	45.342	0.00	0.00
ATOM	5887	CB	ARG	X	391	61.424	23.815	44.086	0.00	0.00
ATOM	5888	HB2	ARG	X	391	62.498	23.722	44.242	0.00	0.00
ATOM	5889	HB3	ARG	X	391	61.098	22.779	43.994	0.00	0.00
ATOM	5890	CG	ARG	X	391	61.144	24.642	42.722	0.00	0.00
ATOM	5891	HG2	ARG	X	391	60.137	25.050	42.806	0.00	0.00
ATOM	5892	HG3	ARG	X	391	61.685	25.588	42.720	0.00	0.00
ATOM	5893	CD	ARG	X	391	61.289	23.977	41.371	0.00	0.00
ATOM	5894	HD2	ARG	X	391	60.848	24.630	40.618	0.00	0.00
ATOM	5895	HD3	ARG	X	391	62.321	23.909	41.025	0.00	0.00
ATOM	5896	NE	ARG	X	391	60.717	22.625	41.177	0.00	0.00
ATOM	5897	HE	ARG	X	391	61.300	21.865	40.858	0.00	0.00
ATOM	5898	CZ	ARG	X	391	59.518	22.245	41.621	0.00	0.00
ATOM	5899	NH1	ARG	X	391	58.568	23.010	42.068	0.00	0.00
ATOM	5900	HH11	ARG	X	391	58.652	24.010	41.953	0.00	0.00
ATOM	5901	HH12	ARG	X	391	57.711	22.590	42.398	0.00	0.00
ATOM	5902	NH2	ARG	X	391	59.256	20.980	41.786	0.00	0.00
ATOM	5903	HH21	ARG	X	391	59.884	20.269	41.440	0.00	0.00
ATOM	5904	HH22	ARG	X	391	58.377	20.758	42.231	0.00	0.00
ATOM	5905	C	ARG	X	391	59.276	24.387	45.527	0.00	0.00
ATOM	5906	O	ARG	X	391	58.617	25.363	45.361	0.00	0.00
ATOM	5907	N	GLU	X	392	58.781	23.151	45.811	0.00	0.00
ATOM	5908	H	GLU	X	392	59.308	22.291	45.853	0.00	0.00
ATOM	5909	CA	GLU	X	392	57.293	22.965	45.921	0.00	0.00
ATOM	5910	HA	GLU	X	392	56.711	23.273	45.052	0.00	0.00
ATOM	5911	CB	GLU	X	392	56.973	21.503	46.244	0.00	0.00
ATOM	5912	HB2	GLU	X	392	57.547	21.162	47.106	0.00	0.00
ATOM	5913	HB3	GLU	X	392	55.928	21.402	46.539	0.00	0.00
ATOM	5914	CG	GLU	X	392	57.056	20.507	45.079	0.00	0.00
ATOM	5915	HG2	GLU	X	392	58.070	20.479	44.680	0.00	0.00
ATOM	5916	HG3	GLU	X	392	56.863	19.552	45.567	0.00	0.00
ATOM	5917	CD	GLU	X	392	56.063	20.715	43.952	0.00	0.00
ATOM	5918	OE1	GLU	X	392	54.868	20.321	44.064	0.00	0.00
ATOM	5919	OE2	GLU	X	392	56.477	21.414	42.979	0.00	0.00
ATOM	5920	C	GLU	X	392	56.736	23.788	47.140	0.00	0.00
ATOM	5921	O	GLU	X	392	55.643	24.328	47.141	0.00	0.00
ATOM	5922	N	ALA	X	393	57.477	23.785	48.271	0.00	0.00
ATOM	5923	H	ALA	X	393	58.301	23.203	48.241	0.00	0.00
ATOM	5924	CA	ALA	X	393	57.196	24.409	49.570	0.00	0.00
ATOM	5925	HA	ALA	X	393	56.252	24.072	49.999	0.00	0.00
ATOM	5926	CB	ALA	X	393	58.332	24.141	50.550	0.00	0.00
ATOM	5927	HB1	ALA	X	393	58.415	23.076	50.770	0.00	0.00
ATOM	5928	HB2	ALA	X	393	58.070	24.725	51.432	0.00	0.00
ATOM	5929	HB3	ALA	X	393	59.291	24.320	50.065	0.00	0.00
ATOM	5930	C	ALA	X	393	56.940	25.939	49.367	0.00	0.00
ATOM	5931	O	ALA	X	393	56.086	26.591	50.041	0.00	0.00
ATOM	5932	N	LEU	X	394	57.855	26.532	48.579	0.00	0.00
ATOM	5933	H	LEU	X	394	58.554	25.992	48.089	0.00	0.00
ATOM	5934	CA	LEU	X	394	57.881	27.979	48.346	0.00	0.00
ATOM	5935	HA	LEU	X	394	57.799	28.387	49.353	0.00	0.00
ATOM	5936	CB	LEU	X	394	59.218	28.397	47.742	0.00	0.00
ATOM	5937	HB2	LEU	X	394	60.008	28.186	48.463	0.00	0.00
ATOM	5938	HB3	LEU	X	394	59.344	27.788	46.847	0.00	0.00
ATOM	5939	CG	LEU	X	394	59.362	29.858	47.313	0.00	0.00
ATOM	5940	HG	LEU	X	394	58.602	30.080	46.565	0.00	0.00
ATOM	5941	CD1	LEU	X	394	59.203	30.853	48.492	0.00	0.00
ATOM	5942	HD11	LEU	X	394	58.310	30.515	49.017	0.00	0.00
ATOM	5943	HD12	LEU	X	394	59.185	31.879	48.122	0.00	0.00
ATOM	5944	HD13	LEU	X	394	60.110	30.884	49.096	0.00	0.00
ATOM	5945	CD2	LEU	X	394	60.707	30.064	46.619	0.00	0.00
ATOM	5946	HD21	LEU	X	394	61.523	29.772	47.279	0.00	0.00
ATOM	5947	HD22	LEU	X	394	60.811	29.560	45.658	0.00	0.00

ATOM	5948	HD23	LEU	X	394	60.889	31.135	46.522	0.00	0.00
ATOM	5949	C	LEU	X	394	56.688	28.539	47.647	0.00	0.00
ATOM	5950	O	LEU	X	394	56.037	29.455	48.062	0.00	0.00
ATOM	5951	N	SER	X	395	56.221	27.818	46.583	0.00	0.00
ATOM	5952	H	SER	X	395	56.792	27.068	46.220	0.00	0.00
ATOM	5953	CA	SER	X	395	54.897	27.973	45.956	0.00	0.00
ATOM	5954	HA	SER	X	395	54.903	28.979	45.535	0.00	0.00
ATOM	5955	CB	SER	X	395	54.813	27.021	44.790	0.00	0.00
ATOM	5956	HB2	SER	X	395	55.217	26.065	45.126	0.00	0.00
ATOM	5957	HB3	SER	X	395	53.782	26.939	44.445	0.00	0.00
ATOM	5958	OG	SER	X	395	55.520	27.287	43.516	0.00	0.00
ATOM	5959	HG	SER	X	395	55.333	26.535	42.949	0.00	0.00
ATOM	5960	C	SER	X	395	53.656	27.808	46.916	0.00	0.00
ATOM	5961	O	SER	X	395	52.688	28.578	46.806	0.00	0.00
ATOM	5962	N	ASP	X	396	53.726	26.954	47.914	0.00	0.00
ATOM	5963	H	ASP	X	396	54.575	26.413	47.992	0.00	0.00
ATOM	5964	CA	ASP	X	396	52.684	26.920	48.989	0.00	0.00
ATOM	5965	HA	ASP	X	396	51.747	26.796	48.445	0.00	0.00
ATOM	5966	CB	ASP	X	396	52.838	25.511	49.693	0.00	0.00
ATOM	5967	HB2	ASP	X	396	52.907	24.756	48.910	0.00	0.00
ATOM	5968	HB3	ASP	X	396	53.819	25.408	50.156	0.00	0.00
ATOM	5969	CG	ASP	X	396	51.643	25.258	50.693	0.00	0.00
ATOM	5970	OD1	ASP	X	396	51.843	25.418	51.864	0.00	0.00
ATOM	5971	OD2	ASP	X	396	50.591	24.876	50.153	0.00	0.00
ATOM	5972	C	ASP	X	396	52.786	28.153	49.928	0.00	0.00
ATOM	5973	O	ASP	X	396	51.775	28.794	50.128	0.00	0.00
ATOM	5974	N	VAL	X	397	54.025	28.576	50.454	0.00	0.00
ATOM	5975	H	VAL	X	397	54.859	28.045	50.244	0.00	0.00
ATOM	5976	CA	VAL	X	397	54.278	29.819	51.146	0.00	0.00
ATOM	5977	HA	VAL	X	397	53.789	29.713	52.114	0.00	0.00
ATOM	5978	CB	VAL	X	397	55.741	30.089	51.463	0.00	0.00
ATOM	5979	HB	VAL	X	397	56.341	30.065	50.553	0.00	0.00
ATOM	5980	CG1	VAL	X	397	56.057	31.613	51.877	0.00	0.00
ATOM	5981	HG11	VAL	X	397	55.738	32.388	51.180	0.00	0.00
ATOM	5982	HG12	VAL	X	397	55.471	31.740	52.788	0.00	0.00
ATOM	5983	HG13	VAL	X	397	57.102	31.742	52.160	0.00	0.00
ATOM	5984	CG2	VAL	X	397	56.330	29.083	52.443	0.00	0.00
ATOM	5985	HG21	VAL	X	397	55.890	29.309	53.414	0.00	0.00
ATOM	5986	HG22	VAL	X	397	57.420	29.053	52.443	0.00	0.00
ATOM	5987	HG23	VAL	X	397	56.047	28.049	52.244	0.00	0.00
ATOM	5988	C	VAL	X	397	53.673	31.076	50.311	0.00	0.00
ATOM	5989	O	VAL	X	397	52.958	31.897	50.909	0.00	0.00
ATOM	5990	N	VAL	X	398	53.983	31.277	49.051	0.00	0.00
ATOM	5991	H	VAL	X	398	54.620	30.652	48.577	0.00	0.00
ATOM	5992	CA	VAL	X	398	53.748	32.608	48.372	0.00	0.00
ATOM	5993	HA	VAL	X	398	54.094	33.435	48.992	0.00	0.00
ATOM	5994	CB	VAL	X	398	54.560	32.843	47.099	0.00	0.00
ATOM	5995	HB	VAL	X	398	54.716	31.939	46.511	0.00	0.00
ATOM	5996	CG1	VAL	X	398	54.084	33.962	46.137	0.00	0.00
ATOM	5997	HG11	VAL	X	398	53.226	33.595	45.573	0.00	0.00
ATOM	5998	HG12	VAL	X	398	53.856	34.826	46.761	0.00	0.00
ATOM	5999	HG13	VAL	X	398	54.890	34.326	45.499	0.00	0.00
ATOM	6000	CG2	VAL	X	398	55.959	33.320	47.574	0.00	0.00
ATOM	6001	HG21	VAL	X	398	56.509	32.479	47.996	0.00	0.00
ATOM	6002	HG22	VAL	X	398	55.962	34.084	48.351	0.00	0.00
ATOM	6003	HG23	VAL	X	398	56.533	33.765	46.762	0.00	0.00
ATOM	6004	C	VAL	X	398	52.209	32.798	48.081	0.00	0.00
ATOM	6005	O	VAL	X	398	51.797	33.916	47.834	0.00	0.00
ATOM	6006	N	GLY	X	399	51.422	31.691	48.204	0.00	0.00
ATOM	6007	H	GLY	X	399	51.820	30.812	48.504	0.00	0.00
ATOM	6008	CA	GLY	X	399	49.955	31.716	47.953	0.00	0.00
ATOM	6009	HA2	GLY	X	399	49.718	32.416	47.151	0.00	0.00
ATOM	6010	HA3	GLY	X	399	49.698	30.713	47.614	0.00	0.00
ATOM	6011	C	GLY	X	399	49.096	31.998	49.199	0.00	0.00
ATOM	6012	O	GLY	X	399	47.980	32.447	49.011	0.00	0.00
ATOM	6013	N	ASP	X	400	49.596	31.569	50.365	0.00	0.00
ATOM	6014	H	ASP	X	400	50.585	31.367	50.407	0.00	0.00

ATOM	6015	CA	ASP	X	400	48.669	31.393	51.505	0.00	0.00
ATOM	6016	HA	ASP	X	400	47.864	30.821	51.043	0.00	0.00
ATOM	6017	CB	ASP	X	400	49.304	30.668	52.717	0.00	0.00
ATOM	6018	HB2	ASP	X	400	50.355	30.934	52.826	0.00	0.00
ATOM	6019	HB3	ASP	X	400	48.805	31.008	53.624	0.00	0.00
ATOM	6020	CG	ASP	X	400	49.139	29.174	52.644	0.00	0.00
ATOM	6021	OD1	ASP	X	400	48.542	28.686	51.652	0.00	0.00
ATOM	6022	OD2	ASP	X	400	49.458	28.421	53.575	0.00	0.00
ATOM	6023	C	ASP	X	400	47.997	32.704	52.063	0.00	0.00
ATOM	6024	O	ASP	X	400	46.897	33.092	51.656	0.00	0.00
ATOM	6025	N	HIE	X	401	48.726	33.542	52.834	0.00	0.00
ATOM	6026	H	HIE	X	401	49.682	33.233	52.943	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.395	34.894	53.332	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.507	34.796	53.957	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.621	35.312	54.227	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.397	36.299	54.631	0.00	0.00
ATOM	6031	HB3	HIE	X	401	49.588	34.633	55.078	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.875	35.290	53.438	0.00	0.00
ATOM	6033	ND1	HIE	X	401	51.253	36.266	52.494	0.00	0.00
ATOM	6034	CE1	HIE	X	401	52.325	35.759	51.858	0.00	0.00
ATOM	6035	HE1	HIE	X	401	52.864	36.286	51.084	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.586	34.533	52.317	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.226	33.849	51.939	0.00	0.00
ATOM	6038	CD2	HIE	X	401	51.690	34.182	53.328	0.00	0.00
ATOM	6039	HD2	HIE	X	401	51.520	33.242	53.833	0.00	0.00
ATOM	6040	C	HIE	X	401	48.160	35.847	52.210	0.00	0.00
ATOM	6041	O	HIE	X	401	47.445	36.820	52.422	0.00	0.00
ATOM	6042	N	ASN	X	402	48.577	35.638	50.928	0.00	0.00
ATOM	6043	H	ASN	X	402	49.340	34.995	50.769	0.00	0.00
ATOM	6044	CA	ASN	X	402	48.242	36.499	49.794	0.00	0.00
ATOM	6045	HA	ASN	X	402	48.182	37.535	50.126	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.285	36.502	48.638	0.00	0.00
ATOM	6047	HB2	ASN	X	402	49.615	35.464	48.579	0.00	0.00
ATOM	6048	HB3	ASN	X	402	48.927	36.873	47.678	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.494	37.372	48.930	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.372	38.538	49.313	0.00	0.00
ATOM	6051	ND2	ASN	X	402	51.766	37.052	48.699	0.00	0.00
ATOM	6052	HD21	ASN	X	402	52.469	37.775	48.633	0.00	0.00
ATOM	6053	HD22	ASN	X	402	51.999	36.209	48.194	0.00	0.00
ATOM	6054	C	ASN	X	402	46.796	36.227	49.250	0.00	0.00
ATOM	6055	O	ASN	X	402	46.046	37.161	48.983	0.00	0.00
ATOM	6056	N	VAL	X	403	46.402	34.956	49.176	0.00	0.00
ATOM	6057	H	VAL	X	403	46.991	34.261	49.611	0.00	0.00
ATOM	6058	CA	VAL	X	403	45.216	34.527	48.464	0.00	0.00
ATOM	6059	HA	VAL	X	403	44.584	35.398	48.293	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.629	33.854	47.064	0.00	0.00
ATOM	6061	HB	VAL	X	403	46.316	33.020	47.205	0.00	0.00
ATOM	6062	CG1	VAL	X	403	44.322	33.376	46.366	0.00	0.00
ATOM	6063	HG11	VAL	X	403	43.659	34.223	46.541	0.00	0.00
ATOM	6064	HG12	VAL	X	403	44.459	33.266	45.291	0.00	0.00
ATOM	6065	HG13	VAL	X	403	43.913	32.512	46.890	0.00	0.00
ATOM	6066	CG2	VAL	X	403	46.252	34.953	46.171	0.00	0.00
ATOM	6067	HG21	VAL	X	403	45.500	35.654	45.811	0.00	0.00
ATOM	6068	HG22	VAL	X	403	46.725	34.571	45.267	0.00	0.00
ATOM	6069	HG23	VAL	X	403	46.989	35.513	46.747	0.00	0.00
ATOM	6070	C	VAL	X	403	44.435	33.432	49.254	0.00	0.00
ATOM	6071	O	VAL	X	403	43.312	33.722	49.648	0.00	0.00
ATOM	6072	N	VAL	X	404	44.849	32.229	49.546	0.00	0.00
ATOM	6073	H	VAL	X	404	45.683	31.893	49.087	0.00	0.00
ATOM	6074	CA	VAL	X	404	44.030	31.069	49.948	0.00	0.00
ATOM	6075	HA	VAL	X	404	43.258	31.173	49.185	0.00	0.00
ATOM	6076	CB	VAL	X	404	44.875	29.818	49.879	0.00	0.00
ATOM	6077	HB	VAL	X	404	45.635	29.895	50.656	0.00	0.00
ATOM	6078	CG1	VAL	X	404	43.918	28.655	50.106	0.00	0.00
ATOM	6079	HG11	VAL	X	404	43.205	28.442	49.309	0.00	0.00
ATOM	6080	HG12	VAL	X	404	44.528	27.770	50.288	0.00	0.00
ATOM	6081	HG13	VAL	X	404	43.422	28.772	51.069	0.00	0.00

ATOM	6082	CG2	VAL	X	404	45.474	29.505	48.484	0.00	0.00
ATOM	6083	HG21	VAL	X	404	46.131	28.636	48.467	0.00	0.00
ATOM	6084	HG22	VAL	X	404	46.005	30.359	48.064	0.00	0.00
ATOM	6085	HG23	VAL	X	404	44.690	29.392	47.736	0.00	0.00
ATOM	6086	C	VAL	X	404	43.502	31.360	51.352	0.00	0.00
ATOM	6087	O	VAL	X	404	42.315	31.211	51.503	0.00	0.00
ATOM	6088	N	CYX	X	405	44.308	31.824	52.232	0.00	0.00
ATOM	6089	H	CYX	X	405	45.213	32.092	51.873	0.00	0.00
ATOM	6090	CA	CYX	X	405	43.780	32.392	53.498	0.00	0.00
ATOM	6091	HA	CYX	X	405	43.330	31.550	54.024	0.00	0.00
ATOM	6092	CB	CYX	X	405	45.024	32.697	54.355	0.00	0.00
ATOM	6093	HB2	CYX	X	405	45.706	33.317	53.773	0.00	0.00
ATOM	6094	HB3	CYX	X	405	44.697	33.262	55.228	0.00	0.00
ATOM	6095	SG	CYX	X	405	46.033	31.347	54.823	0.00	0.00
ATOM	6096	C	CYX	X	405	42.696	33.471	53.404	0.00	0.00
ATOM	6097	O	CYX	X	405	41.667	33.247	54.066	0.00	0.00
ATOM	6098	N	PRO	X	406	42.920	34.625	52.724	0.00	0.00
ATOM	6099	CD	PRO	X	406	44.168	35.207	52.402	0.00	0.00
ATOM	6100	HD2	PRO	X	406	44.759	34.759	51.603	0.00	0.00
ATOM	6101	HD3	PRO	X	406	44.731	35.255	53.334	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.801	36.628	52.049	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.476	37.015	51.285	0.00	0.00
ATOM	6104	HG3	PRO	X	406	43.908	37.197	52.972	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.336	36.641	51.635	0.00	0.00
ATOM	6106	HB2	PRO	X	406	42.113	36.498	50.578	0.00	0.00
ATOM	6107	HB3	PRO	X	406	41.917	37.578	52.003	0.00	0.00
ATOM	6108	CA	PRO	X	406	41.800	35.467	52.493	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.478	35.780	53.486	0.00	0.00
ATOM	6110	C	PRO	X	406	40.501	34.827	51.904	0.00	0.00
ATOM	6111	O	PRO	X	406	39.399	35.002	52.419	0.00	0.00
ATOM	6112	N	VAL	X	407	40.607	34.057	50.820	0.00	0.00
ATOM	6113	H	VAL	X	407	41.458	34.179	50.290	0.00	0.00
ATOM	6114	CA	VAL	X	407	39.466	33.327	50.276	0.00	0.00
ATOM	6115	HA	VAL	X	407	38.728	34.058	49.944	0.00	0.00
ATOM	6116	CB	VAL	X	407	39.865	32.416	49.084	0.00	0.00
ATOM	6117	HB	VAL	X	407	40.754	31.864	49.389	0.00	0.00
ATOM	6118	CG1	VAL	X	407	38.796	31.360	48.576	0.00	0.00
ATOM	6119	HG11	VAL	X	407	38.905	31.169	47.509	0.00	0.00
ATOM	6120	HG12	VAL	X	407	38.887	30.419	49.119	0.00	0.00
ATOM	6121	HG13	VAL	X	407	37.779	31.724	48.725	0.00	0.00
ATOM	6122	CG2	VAL	X	407	40.226	33.324	47.885	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.296	33.815	47.598	0.00	0.00
ATOM	6124	HG22	VAL	X	407	40.636	32.790	47.028	0.00	0.00
ATOM	6125	HG23	VAL	X	407	40.910	34.089	48.252	0.00	0.00
ATOM	6126	C	VAL	X	407	38.675	32.500	51.342	0.00	0.00
ATOM	6127	O	VAL	X	407	37.430	32.390	51.396	0.00	0.00
ATOM	6128	N	ALA	X	408	39.433	31.868	52.214	0.00	0.00
ATOM	6129	H	ALA	X	408	40.435	31.965	52.128	0.00	0.00
ATOM	6130	CA	ALA	X	408	38.935	30.977	53.256	0.00	0.00
ATOM	6131	HA	ALA	X	408	38.209	30.289	52.823	0.00	0.00
ATOM	6132	CB	ALA	X	408	40.061	30.113	53.823	0.00	0.00
ATOM	6133	HB1	ALA	X	408	40.487	29.669	52.923	0.00	0.00
ATOM	6134	HB2	ALA	X	408	39.707	29.357	54.524	0.00	0.00
ATOM	6135	HB3	ALA	X	408	40.730	30.740	54.412	0.00	0.00
ATOM	6136	C	ALA	X	408	38.166	31.756	54.367	0.00	0.00
ATOM	6137	O	ALA	X	408	37.033	31.415	54.783	0.00	0.00
ATOM	6138	N	GLN	X	409	38.690	32.932	54.709	0.00	0.00
ATOM	6139	H	GLN	X	409	39.553	33.222	54.273	0.00	0.00
ATOM	6140	CA	GLN	X	409	38.081	33.745	55.788	0.00	0.00
ATOM	6141	HA	GLN	X	409	37.698	33.026	56.512	0.00	0.00
ATOM	6142	CB	GLN	X	409	39.046	34.668	56.490	0.00	0.00
ATOM	6143	HB2	GLN	X	409	39.876	34.001	56.723	0.00	0.00
ATOM	6144	HB3	GLN	X	409	39.496	35.386	55.805	0.00	0.00
ATOM	6145	CG	GLN	X	409	38.524	35.439	57.683	0.00	0.00
ATOM	6146	HG2	GLN	X	409	39.344	36.027	58.095	0.00	0.00
ATOM	6147	HG3	GLN	X	409	37.883	36.261	57.366	0.00	0.00
ATOM	6148	CD	GLN	X	409	37.842	34.650	58.806	0.00	0.00

ATOM	6149	OE1	GLN	X	409	38.439	34.241	59.802	0.00	0.00
ATOM	6150	NE2	GLN	X	409	36.530	34.391	58.631	0.00	0.00
ATOM	6151	HE21	GLN	X	409	36.115	33.812	59.347	0.00	0.00
ATOM	6152	HE22	GLN	X	409	36.097	34.587	57.739	0.00	0.00
ATOM	6153	C	GLN	X	409	36.838	34.514	55.202	0.00	0.00
ATOM	6154	O	GLN	X	409	35.935	34.835	55.938	0.00	0.00
ATOM	6155	N	LEU	X	410	36.825	34.755	53.888	0.00	0.00
ATOM	6156	H	LEU	X	410	37.585	34.450	53.296	0.00	0.00
ATOM	6157	CA	LEU	X	410	35.747	35.402	53.191	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.523	36.267	53.814	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.276	36.026	51.920	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.168	36.582	52.209	0.00	0.00
ATOM	6161	HB3	LEU	X	410	36.514	35.180	51.276	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.237	36.808	51.058	0.00	0.00
ATOM	6163	HG	LEU	X	410	34.490	36.053	50.814	0.00	0.00
ATOM	6164	CD1	LEU	X	410	34.639	38.087	51.659	0.00	0.00
ATOM	6165	HD11	LEU	X	410	33.845	37.784	52.342	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.291	38.698	50.825	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.453	38.615	52.156	0.00	0.00
ATOM	6168	CD2	LEU	X	410	35.896	37.243	49.699	0.00	0.00
ATOM	6169	HD21	LEU	X	410	36.215	36.318	49.218	0.00	0.00
ATOM	6170	HD22	LEU	X	410	35.158	37.712	49.048	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.772	37.880	49.825	0.00	0.00
ATOM	6172	C	LEU	X	410	34.636	34.471	52.948	0.00	0.00
ATOM	6173	O	LEU	X	410	33.499	34.850	53.251	0.00	0.00
ATOM	6174	N	ALA	X	411	34.799	33.223	52.446	0.00	0.00
ATOM	6175	H	ALA	X	411	35.725	32.902	52.203	0.00	0.00
ATOM	6176	CA	ALA	X	411	33.761	32.194	52.331	0.00	0.00
ATOM	6177	HA	ALA	X	411	32.921	32.518	51.718	0.00	0.00
ATOM	6178	CB	ALA	X	411	34.305	30.949	51.706	0.00	0.00
ATOM	6179	HB1	ALA	X	411	35.002	30.506	52.417	0.00	0.00
ATOM	6180	HB2	ALA	X	411	34.971	31.244	50.895	0.00	0.00
ATOM	6181	HB3	ALA	X	411	33.480	30.286	51.446	0.00	0.00
ATOM	6182	C	ALA	X	411	33.135	31.933	53.716	0.00	0.00
ATOM	6183	O	ALA	X	411	31.938	32.008	53.884	0.00	0.00
ATOM	6184	N	GLY	X	412	33.938	31.970	54.816	0.00	0.00
ATOM	6185	H	GLY	X	412	34.920	31.963	54.577	0.00	0.00
ATOM	6186	CA	GLY	X	412	33.483	31.869	56.213	0.00	0.00
ATOM	6187	HA2	GLY	X	412	32.953	30.938	56.414	0.00	0.00
ATOM	6188	HA3	GLY	X	412	34.316	31.927	56.914	0.00	0.00
ATOM	6189	C	GLY	X	412	32.577	33.000	56.682	0.00	0.00
ATOM	6190	O	GLY	X	412	31.448	32.695	57.188	0.00	0.00
ATOM	6191	N	ARG	X	413	32.971	34.244	56.565	0.00	0.00
ATOM	6192	H	ARG	X	413	33.911	34.453	56.260	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.110	35.411	56.776	0.00	0.00
ATOM	6194	HA	ARG	X	413	31.856	35.428	57.835	0.00	0.00
ATOM	6195	CB	ARG	X	413	32.811	36.809	56.517	0.00	0.00
ATOM	6196	HB2	ARG	X	413	33.272	36.814	55.529	0.00	0.00
ATOM	6197	HB3	ARG	X	413	31.994	37.526	56.594	0.00	0.00
ATOM	6198	CG	ARG	X	413	33.938	36.947	57.530	0.00	0.00
ATOM	6199	HG2	ARG	X	413	34.444	35.986	57.624	0.00	0.00
ATOM	6200	HG3	ARG	X	413	34.683	37.691	57.245	0.00	0.00
ATOM	6201	CD	ARG	X	413	33.356	37.351	58.915	0.00	0.00
ATOM	6202	HD2	ARG	X	413	33.178	38.418	58.785	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.467	36.756	59.125	0.00	0.00
ATOM	6204	NE	ARG	X	413	34.370	37.092	59.948	0.00	0.00
ATOM	6205	HE	ARG	X	413	35.213	37.624	59.786	0.00	0.00
ATOM	6206	CZ	ARG	X	413	34.394	36.096	60.788	0.00	0.00
ATOM	6207	NH1	ARG	X	413	33.305	35.355	60.962	0.00	0.00
ATOM	6208	HH11	ARG	X	413	32.456	35.539	60.447	0.00	0.00
ATOM	6209	HH12	ARG	X	413	33.407	34.645	61.673	0.00	0.00
ATOM	6210	NH2	ARG	X	413	35.500	35.938	61.513	0.00	0.00
ATOM	6211	HH21	ARG	X	413	36.335	36.492	61.389	0.00	0.00
ATOM	6212	HH22	ARG	X	413	35.599	35.164	62.155	0.00	0.00
ATOM	6213	C	ARG	X	413	30.801	35.466	55.989	0.00	0.00
ATOM	6214	O	ARG	X	413	29.727	35.554	56.556	0.00	0.00
ATOM	6215	N	LEU	X	414	30.836	35.437	54.589	0.00	0.00

ATOM	6216	H	LEU	X	414	31.777	35.281	54.257	0.00	0.00
ATOM	6217	CA	LEU	X	414	29.684	35.507	53.670	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.126	36.413	53.909	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.115	35.458	52.240	0.00	0.00
ATOM	6220	HB2	LEU	X	414	30.798	34.610	52.181	0.00	0.00
ATOM	6221	HB3	LEU	X	414	29.156	35.210	51.786	0.00	0.00
ATOM	6222	CG	LEU	X	414	30.882	36.610	51.568	0.00	0.00
ATOM	6223	HG	LEU	X	414	31.840	36.743	52.070	0.00	0.00
ATOM	6224	CD1	LEU	X	414	31.298	36.296	50.078	0.00	0.00
ATOM	6225	HD11	LEU	X	414	31.980	35.448	50.023	0.00	0.00
ATOM	6226	HD12	LEU	X	414	31.901	37.120	49.696	0.00	0.00
ATOM	6227	HD13	LEU	X	414	30.366	36.206	49.521	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.086	37.937	51.744	0.00	0.00
ATOM	6229	HD21	LEU	X	414	30.536	38.783	51.223	0.00	0.00
ATOM	6230	HD22	LEU	X	414	29.049	37.796	51.441	0.00	0.00
ATOM	6231	HD23	LEU	X	414	30.032	38.124	52.817	0.00	0.00
ATOM	6232	C	LEU	X	414	28.702	34.332	53.990	0.00	0.00
ATOM	6233	O	LEU	X	414	27.529	34.552	54.292	0.00	0.00
ATOM	6234	N	ALA	X	415	29.240	33.118	54.299	0.00	0.00
ATOM	6235	H	ALA	X	415	30.236	32.961	54.233	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.419	32.026	54.637	0.00	0.00
ATOM	6237	HA	ALA	X	415	27.567	31.986	53.959	0.00	0.00
ATOM	6238	CB	ALA	X	415	29.209	30.647	54.504	0.00	0.00
ATOM	6239	HB1	ALA	X	415	29.674	30.553	53.523	0.00	0.00
ATOM	6240	HB2	ALA	X	415	28.551	29.778	54.524	0.00	0.00
ATOM	6241	HB3	ALA	X	415	29.872	30.566	55.366	0.00	0.00
ATOM	6242	C	ALA	X	415	27.762	32.163	56.035	0.00	0.00
ATOM	6243	O	ALA	X	415	26.623	31.770	56.198	0.00	0.00
ATOM	6244	N	ALA	X	416	28.441	32.674	57.037	0.00	0.00
ATOM	6245	H	ALA	X	416	29.372	33.006	56.830	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.936	32.866	58.426	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.446	31.964	58.793	0.00	0.00
ATOM	6248	CB	ALA	X	416	29.114	33.267	59.312	0.00	0.00
ATOM	6249	HB1	ALA	X	416	29.785	32.416	59.196	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.752	33.368	60.335	0.00	0.00
ATOM	6251	HB3	ALA	X	416	29.541	34.214	58.980	0.00	0.00
ATOM	6252	C	ALA	X	416	26.931	34.082	58.505	0.00	0.00
ATOM	6253	O	ALA	X	416	25.947	33.971	59.230	0.00	0.00
ATOM	6254	N	GLN	X	417	26.987	35.022	57.599	0.00	0.00
ATOM	6255	H	GLN	X	417	27.815	35.023	57.020	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.053	36.207	57.505	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.440	36.270	58.404	0.00	0.00
ATOM	6258	CB	GLN	X	417	26.845	37.509	57.278	0.00	0.00
ATOM	6259	HB2	GLN	X	417	27.562	37.308	56.482	0.00	0.00
ATOM	6260	HB3	GLN	X	417	26.178	38.344	57.068	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.625	37.835	58.557	0.00	0.00
ATOM	6262	HG2	GLN	X	417	26.973	38.396	59.226	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.937	36.939	59.095	0.00	0.00
ATOM	6264	CD	GLN	X	417	28.955	38.611	58.296	0.00	0.00
ATOM	6265	OE1	GLN	X	417	30.048	38.210	58.630	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.834	39.697	57.616	0.00	0.00
ATOM	6267	HE21	GLN	X	417	29.634	40.278	57.408	0.00	0.00
ATOM	6268	HE22	GLN	X	417	27.903	40.064	57.479	0.00	0.00
ATOM	6269	C	GLN	X	417	24.946	35.975	56.455	0.00	0.00
ATOM	6270	O	GLN	X	417	24.052	36.786	56.317	0.00	0.00
ATOM	6271	N	GLY	X	418	24.942	34.864	55.658	0.00	0.00
ATOM	6272	H	GLY	X	418	25.681	34.176	55.676	0.00	0.00
ATOM	6273	CA	GLY	X	418	23.721	34.419	55.022	0.00	0.00
ATOM	6274	HA2	GLY	X	418	23.559	33.366	55.255	0.00	0.00
ATOM	6275	HA3	GLY	X	418	22.825	34.962	55.325	0.00	0.00
ATOM	6276	C	GLY	X	418	23.734	34.418	53.511	0.00	0.00
ATOM	6277	O	GLY	X	418	22.730	34.100	52.833	0.00	0.00
ATOM	6278	N	ALA	X	419	24.854	34.800	52.917	0.00	0.00
ATOM	6279	H	ALA	X	419	25.568	35.079	53.575	0.00	0.00
ATOM	6280	CA	ALA	X	419	25.061	34.484	51.554	0.00	0.00
ATOM	6281	HA	ALA	X	419	24.188	34.836	51.006	0.00	0.00
ATOM	6282	CB	ALA	X	419	26.362	35.131	50.965	0.00	0.00

ATOM	6283	HB1	ALA	X	419	26.381	34.959	49.889	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.180	34.765	51.586	0.00	0.00
ATOM	6285	HB3	ALA	X	419	26.336	36.180	51.263	0.00	0.00
ATOM	6286	C	ALA	X	419	25.163	32.936	51.391	0.00	0.00
ATOM	6287	O	ALA	X	419	25.844	32.271	52.152	0.00	0.00
ATOM	6288	N	ARG	X	420	24.478	32.396	50.418	0.00	0.00
ATOM	6289	H	ARG	X	420	23.962	33.026	49.820	0.00	0.00
ATOM	6290	CA	ARG	X	420	24.720	31.161	49.817	0.00	0.00
ATOM	6291	HA	ARG	X	420	24.680	30.366	50.562	0.00	0.00
ATOM	6292	CB	ARG	X	420	23.509	30.978	48.857	0.00	0.00
ATOM	6293	HB2	ARG	X	420	22.544	31.201	49.312	0.00	0.00
ATOM	6294	HB3	ARG	X	420	23.545	31.715	48.055	0.00	0.00
ATOM	6295	CG	ARG	X	420	23.127	29.598	48.146	0.00	0.00
ATOM	6296	HG2	ARG	X	420	23.894	29.538	47.374	0.00	0.00
ATOM	6297	HG3	ARG	X	420	23.272	28.741	48.804	0.00	0.00
ATOM	6298	CD	ARG	X	420	21.691	29.466	47.604	0.00	0.00
ATOM	6299	HD2	ARG	X	420	21.064	29.786	48.436	0.00	0.00
ATOM	6300	HD3	ARG	X	420	21.362	30.107	46.786	0.00	0.00
ATOM	6301	NE	ARG	X	420	21.308	28.119	47.150	0.00	0.00
ATOM	6302	HE	ARG	X	420	21.984	27.374	47.233	0.00	0.00
ATOM	6303	CZ	ARG	X	420	20.219	27.814	46.458	0.00	0.00
ATOM	6304	NH1	ARG	X	420	19.458	28.793	46.036	0.00	0.00
ATOM	6305	HH11	ARG	X	420	19.773	29.748	46.129	0.00	0.00
ATOM	6306	HH12	ARG	X	420	18.612	28.648	45.504	0.00	0.00
ATOM	6307	NH2	ARG	X	420	19.973	26.644	46.000	0.00	0.00
ATOM	6308	HH21	ARG	X	420	20.429	25.855	46.435	0.00	0.00
ATOM	6309	HH22	ARG	X	420	19.388	26.532	45.184	0.00	0.00
ATOM	6310	C	ARG	X	420	26.075	31.257	49.094	0.00	0.00
ATOM	6311	O	ARG	X	420	26.122	31.979	48.083	0.00	0.00
ATOM	6312	N	VAL	X	421	27.167	30.736	49.578	0.00	0.00
ATOM	6313	H	VAL	X	421	27.025	30.197	50.421	0.00	0.00
ATOM	6314	CA	VAL	X	421	28.425	30.708	48.891	0.00	0.00
ATOM	6315	HA	VAL	X	421	28.588	31.528	48.192	0.00	0.00
ATOM	6316	CB	VAL	X	421	29.557	31.083	49.948	0.00	0.00
ATOM	6317	HB	VAL	X	421	29.418	30.501	50.859	0.00	0.00
ATOM	6318	CG1	VAL	X	421	31.006	30.874	49.359	0.00	0.00
ATOM	6319	HG11	VAL	X	421	31.849	31.116	50.006	0.00	0.00
ATOM	6320	HG12	VAL	X	421	31.254	29.920	48.895	0.00	0.00
ATOM	6321	HG13	VAL	X	421	31.001	31.558	48.511	0.00	0.00
ATOM	6322	CG2	VAL	X	421	29.354	32.522	50.231	0.00	0.00
ATOM	6323	HG21	VAL	X	421	29.667	33.096	49.358	0.00	0.00
ATOM	6324	HG22	VAL	X	421	29.970	32.818	51.080	0.00	0.00
ATOM	6325	HG23	VAL	X	421	28.303	32.795	50.321	0.00	0.00
ATOM	6326	C	VAL	X	421	28.701	29.303	48.233	0.00	0.00
ATOM	6327	O	VAL	X	421	28.439	28.226	48.798	0.00	0.00
ATOM	6328	N	TYR	X	422	29.241	29.291	47.049	0.00	0.00
ATOM	6329	H	TYR	X	422	29.193	30.149	46.519	0.00	0.00
ATOM	6330	CA	TYR	X	422	29.804	28.073	46.364	0.00	0.00
ATOM	6331	HA	TYR	X	422	29.700	27.205	47.015	0.00	0.00
ATOM	6332	CB	TYR	X	422	29.135	27.782	44.995	0.00	0.00
ATOM	6333	HB2	TYR	X	422	29.171	28.746	44.486	0.00	0.00
ATOM	6334	HB3	TYR	X	422	29.672	26.984	44.482	0.00	0.00
ATOM	6335	CG	TYR	X	422	27.645	27.359	45.073	0.00	0.00
ATOM	6336	CD1	TYR	X	422	27.260	26.007	45.416	0.00	0.00
ATOM	6337	HD1	TYR	X	422	27.950	25.176	45.433	0.00	0.00
ATOM	6338	CE1	TYR	X	422	25.912	25.726	45.608	0.00	0.00
ATOM	6339	HE1	TYR	X	422	25.580	24.698	45.600	0.00	0.00
ATOM	6340	CZ	TYR	X	422	24.896	26.712	45.597	0.00	0.00
ATOM	6341	OH	TYR	X	422	23.619	26.424	45.967	0.00	0.00
ATOM	6342	HH	TYR	X	422	23.493	25.473	45.988	0.00	0.00
ATOM	6343	CE2	TYR	X	422	25.300	28.101	45.390	0.00	0.00
ATOM	6344	HE2	TYR	X	422	24.564	28.889	45.327	0.00	0.00
ATOM	6345	CD2	TYR	X	422	26.619	28.389	45.017	0.00	0.00
ATOM	6346	HD2	TYR	X	422	26.834	29.407	44.728	0.00	0.00
ATOM	6347	C	TYR	X	422	31.328	28.252	46.048	0.00	0.00
ATOM	6348	O	TYR	X	422	31.714	29.190	45.381	0.00	0.00
ATOM	6349	N	ALA	X	423	32.139	27.272	46.545	0.00	0.00

ATOM	6350	H	ALA	X	423	31.757	26.595	47.189	0.00	0.00
ATOM	6351	CA	ALA	X	423	33.561	27.311	46.589	0.00	0.00
ATOM	6352	HA	ALA	X	423	33.788	28.344	46.327	0.00	0.00
ATOM	6353	CB	ALA	X	423	34.079	27.260	47.993	0.00	0.00
ATOM	6354	HB1	ALA	X	423	33.423	27.831	48.649	0.00	0.00
ATOM	6355	HB2	ALA	X	423	35.097	27.619	48.146	0.00	0.00
ATOM	6356	HB3	ALA	X	423	33.886	26.232	48.303	0.00	0.00
ATOM	6357	C	ALA	X	423	34.193	26.238	45.723	0.00	0.00
ATOM	6358	O	ALA	X	423	33.802	25.104	45.689	0.00	0.00
ATOM	6359	N	TYR	X	424	35.239	26.589	44.996	0.00	0.00
ATOM	6360	H	TYR	X	424	35.601	27.522	45.129	0.00	0.00
ATOM	6361	CA	TYR	X	424	36.053	25.662	44.274	0.00	0.00
ATOM	6362	HA	TYR	X	424	35.963	24.722	44.819	0.00	0.00
ATOM	6363	CB	TYR	X	424	35.609	25.560	42.768	0.00	0.00
ATOM	6364	HB2	TYR	X	424	35.932	24.631	42.298	0.00	0.00
ATOM	6365	HB3	TYR	X	424	34.520	25.616	42.783	0.00	0.00
ATOM	6366	CG	TYR	X	424	36.206	26.763	42.025	0.00	0.00
ATOM	6367	CD1	TYR	X	424	37.459	26.582	41.425	0.00	0.00
ATOM	6368	HD1	TYR	X	424	37.831	25.583	41.249	0.00	0.00
ATOM	6369	CE1	TYR	X	424	38.149	27.719	40.914	0.00	0.00
ATOM	6370	HE1	TYR	X	424	39.145	27.675	40.498	0.00	0.00
ATOM	6371	CZ	TYR	X	424	37.599	29.035	41.124	0.00	0.00
ATOM	6372	OH	TYR	X	424	38.239	30.216	40.652	0.00	0.00
ATOM	6373	HH	TYR	X	424	38.868	30.132	39.931	0.00	0.00
ATOM	6374	CE2	TYR	X	424	36.319	29.165	41.621	0.00	0.00
ATOM	6375	HE2	TYR	X	424	35.955	30.176	41.731	0.00	0.00
ATOM	6376	CD2	TYR	X	424	35.582	28.059	42.076	0.00	0.00
ATOM	6377	HD2	TYR	X	424	34.594	28.140	42.506	0.00	0.00
ATOM	6378	C	TYR	X	424	37.555	25.729	44.378	0.00	0.00
ATOM	6379	O	TYR	X	424	38.028	26.816	44.773	0.00	0.00
ATOM	6380	N	VAL	X	425	38.182	24.643	44.007	0.00	0.00
ATOM	6381	H	VAL	X	425	37.546	23.876	43.838	0.00	0.00
ATOM	6382	CA	VAL	X	425	39.587	24.476	43.651	0.00	0.00
ATOM	6383	HA	VAL	X	425	40.119	25.427	43.672	0.00	0.00
ATOM	6384	CB	VAL	X	425	40.327	23.652	44.782	0.00	0.00
ATOM	6385	HB	VAL	X	425	39.736	22.743	44.899	0.00	0.00
ATOM	6386	CG1	VAL	X	425	41.671	23.059	44.302	0.00	0.00
ATOM	6387	HG11	VAL	X	425	42.348	23.828	43.931	0.00	0.00
ATOM	6388	HG12	VAL	X	425	42.209	22.577	45.118	0.00	0.00
ATOM	6389	HG13	VAL	X	425	41.517	22.285	43.550	0.00	0.00
ATOM	6390	CG2	VAL	X	425	40.434	24.496	46.046	0.00	0.00
ATOM	6391	HG21	VAL	X	425	40.943	23.884	46.791	0.00	0.00
ATOM	6392	HG22	VAL	X	425	39.436	24.833	46.324	0.00	0.00
ATOM	6393	HG23	VAL	X	425	40.983	25.416	45.846	0.00	0.00
ATOM	6394	C	VAL	X	425	39.708	23.733	42.353	0.00	0.00
ATOM	6395	O	VAL	X	425	39.075	22.677	42.142	0.00	0.00
ATOM	6396	N	PHE	X	426	40.551	24.189	41.468	0.00	0.00
ATOM	6397	H	PHE	X	426	41.033	25.060	41.634	0.00	0.00
ATOM	6398	CA	PHE	X	426	40.732	23.682	40.084	0.00	0.00
ATOM	6399	HA	PHE	X	426	40.019	22.896	39.836	0.00	0.00
ATOM	6400	CB	PHE	X	426	40.375	24.832	39.143	0.00	0.00
ATOM	6401	HB2	PHE	X	426	39.417	25.258	39.442	0.00	0.00
ATOM	6402	HB3	PHE	X	426	41.072	25.661	39.273	0.00	0.00
ATOM	6403	CG	PHE	X	426	40.404	24.502	37.683	0.00	0.00
ATOM	6404	CD1	PHE	X	426	39.212	24.226	36.979	0.00	0.00
ATOM	6405	HD1	PHE	X	426	38.228	24.289	37.420	0.00	0.00
ATOM	6406	CE1	PHE	X	426	39.300	24.065	35.603	0.00	0.00
ATOM	6407	HE1	PHE	X	426	38.464	23.894	34.941	0.00	0.00
ATOM	6408	CZ	PHE	X	426	40.463	24.212	34.895	0.00	0.00
ATOM	6409	HZ	PHE	X	426	40.472	24.239	33.815	0.00	0.00
ATOM	6410	CE2	PHE	X	426	41.667	24.526	35.607	0.00	0.00
ATOM	6411	HE2	PHE	X	426	42.572	24.738	35.058	0.00	0.00
ATOM	6412	CD2	PHE	X	426	41.648	24.639	36.979	0.00	0.00
ATOM	6413	HD2	PHE	X	426	42.506	25.026	37.509	0.00	0.00
ATOM	6414	C	PHE	X	426	42.188	23.178	39.727	0.00	0.00
ATOM	6415	O	PHE	X	426	43.192	23.681	40.216	0.00	0.00
ATOM	6416	N	GLU	X	427	42.207	22.023	39.063	0.00	0.00

ATOM	6417	H	GLU	X	427	41.315	21.652	38.771	0.00	0.00
ATOM	6418	CA	GLU	X	427	43.189	20.957	39.237	0.00	0.00
ATOM	6419	HA	GLU	X	427	44.065	21.467	39.638	0.00	0.00
ATOM	6420	CB	GLU	X	427	42.694	19.840	40.130	0.00	0.00
ATOM	6421	HB2	GLU	X	427	41.773	19.356	39.806	0.00	0.00
ATOM	6422	HB3	GLU	X	427	43.525	19.148	40.269	0.00	0.00
ATOM	6423	CG	GLU	X	427	42.350	20.285	41.530	0.00	0.00
ATOM	6424	HG2	GLU	X	427	43.054	21.062	41.828	0.00	0.00
ATOM	6425	HG3	GLU	X	427	41.304	20.583	41.600	0.00	0.00
ATOM	6426	CD	GLU	X	427	42.449	19.084	42.497	0.00	0.00
ATOM	6427	OE1	GLU	X	427	43.432	19.080	43.298	0.00	0.00
ATOM	6428	OE2	GLU	X	427	41.663	18.144	42.414	0.00	0.00
ATOM	6429	C	GLU	X	427	43.658	20.387	37.932	0.00	0.00
ATOM	6430	O	GLU	X	427	44.817	20.012	37.916	0.00	0.00
ATOM	6431	N	HIE	X	428	42.858	20.307	36.914	0.00	0.00
ATOM	6432	H	HIE	X	428	42.007	20.829	37.067	0.00	0.00
ATOM	6433	CA	HIE	X	428	43.217	19.975	35.530	0.00	0.00
ATOM	6434	HA	HIE	X	428	43.630	18.967	35.506	0.00	0.00
ATOM	6435	CB	HIE	X	428	41.982	20.043	34.634	0.00	0.00
ATOM	6436	HB2	HIE	X	428	41.270	19.307	35.007	0.00	0.00
ATOM	6437	HB3	HIE	X	428	41.521	21.023	34.763	0.00	0.00
ATOM	6438	CG	HIE	X	428	42.353	19.723	33.125	0.00	0.00
ATOM	6439	ND1	HIE	X	428	43.287	18.776	32.710	0.00	0.00
ATOM	6440	CE1	HIE	X	428	43.464	19.011	31.396	0.00	0.00
ATOM	6441	HE1	HIE	X	428	44.063	18.366	30.770	0.00	0.00
ATOM	6442	NE2	HIE	X	428	42.729	19.958	30.928	0.00	0.00
ATOM	6443	HE2	HIE	X	428	42.834	20.306	29.985	0.00	0.00
ATOM	6444	CD2	HIE	X	428	41.964	20.461	32.017	0.00	0.00
ATOM	6445	HD2	HIE	X	428	41.353	21.350	31.953	0.00	0.00
ATOM	6446	C	HIE	X	428	44.342	20.854	34.958	0.00	0.00
ATOM	6447	O	HIE	X	428	44.224	22.079	34.978	0.00	0.00
ATOM	6448	N	ARG	X	429	45.456	20.248	34.308	0.00	0.00
ATOM	6449	H	ARG	X	429	45.347	19.254	34.167	0.00	0.00
ATOM	6450	CA	ARG	X	429	46.615	21.067	33.685	0.00	0.00
ATOM	6451	HA	ARG	X	429	46.315	22.064	34.006	0.00	0.00
ATOM	6452	CB	ARG	X	429	47.873	20.705	34.354	0.00	0.00
ATOM	6453	HB2	ARG	X	429	47.706	20.685	35.431	0.00	0.00
ATOM	6454	HB3	ARG	X	429	48.105	19.662	34.139	0.00	0.00
ATOM	6455	CG	ARG	X	429	49.015	21.619	33.996	0.00	0.00
ATOM	6456	HG2	ARG	X	429	48.988	21.792	32.921	0.00	0.00
ATOM	6457	HG3	ARG	X	429	48.879	22.517	34.600	0.00	0.00
ATOM	6458	CD	ARG	X	429	50.459	21.277	34.309	0.00	0.00
ATOM	6459	HD2	ARG	X	429	50.741	21.514	35.335	0.00	0.00
ATOM	6460	HD3	ARG	X	429	50.638	20.222	34.103	0.00	0.00
ATOM	6461	NE	ARG	X	429	51.451	22.050	33.493	0.00	0.00
ATOM	6462	HE	ARG	X	429	51.755	22.937	33.869	0.00	0.00
ATOM	6463	CZ	ARG	X	429	51.919	21.722	32.244	0.00	0.00
ATOM	6464	NH1	ARG	X	429	51.626	20.551	31.629	0.00	0.00
ATOM	6465	HH11	ARG	X	429	51.049	19.845	32.065	0.00	0.00
ATOM	6466	HH12	ARG	X	429	52.317	20.298	30.938	0.00	0.00
ATOM	6467	NH2	ARG	X	429	52.740	22.568	31.679	0.00	0.00
ATOM	6468	HH21	ARG	X	429	52.816	23.517	32.018	0.00	0.00
ATOM	6469	HH22	ARG	X	429	53.147	22.381	30.774	0.00	0.00
ATOM	6470	C	ARG	X	429	46.575	21.010	32.134	0.00	0.00
ATOM	6471	O	ARG	X	429	46.961	19.978	31.535	0.00	0.00
ATOM	6472	N	ALA	X	430	46.008	22.037	31.521	0.00	0.00
ATOM	6473	H	ALA	X	430	45.792	22.895	32.008	0.00	0.00
ATOM	6474	CA	ALA	X	430	45.535	21.921	30.140	0.00	0.00
ATOM	6475	HA	ALA	X	430	44.910	21.058	29.911	0.00	0.00
ATOM	6476	CB	ALA	X	430	44.499	23.009	29.896	0.00	0.00
ATOM	6477	HB1	ALA	X	430	44.875	24.002	30.146	0.00	0.00
ATOM	6478	HB2	ALA	X	430	43.572	22.778	30.419	0.00	0.00
ATOM	6479	HB3	ALA	X	430	44.256	23.064	28.835	0.00	0.00
ATOM	6480	C	ALA	X	430	46.621	21.929	29.045	0.00	0.00
ATOM	6481	O	ALA	X	430	47.689	22.485	29.191	0.00	0.00
ATOM	6482	N	SER	X	431	46.259	21.362	27.910	0.00	0.00
ATOM	6483	H	SER	X	431	45.279	21.126	27.841	0.00	0.00

ATOM	6484	CA	SER	X	431	47.141	21.197	26.675	0.00	0.00
ATOM	6485	HA	SER	X	431	47.952	20.513	26.927	0.00	0.00
ATOM	6486	CB	SER	X	431	46.262	20.599	25.529	0.00	0.00
ATOM	6487	HB2	SER	X	431	46.734	20.526	24.549	0.00	0.00
ATOM	6488	HB3	SER	X	431	45.927	19.638	25.918	0.00	0.00
ATOM	6489	OG	SER	X	431	45.095	21.400	25.389	0.00	0.00
ATOM	6490	HG	SER	X	431	44.266	20.995	25.654	0.00	0.00
ATOM	6491	C	SER	X	431	47.819	22.469	26.279	0.00	0.00
ATOM	6492	O	SER	X	431	48.854	22.471	25.616	0.00	0.00
ATOM	6493	N	THR	X	432	47.130	23.643	26.528	0.00	0.00
ATOM	6494	H	THR	X	432	46.372	23.442	27.164	0.00	0.00
ATOM	6495	CA	THR	X	432	47.548	25.036	26.220	0.00	0.00
ATOM	6496	HA	THR	X	432	48.121	25.128	25.297	0.00	0.00
ATOM	6497	CB	THR	X	432	46.274	25.882	25.921	0.00	0.00
ATOM	6498	HB	THR	X	432	45.584	25.819	26.762	0.00	0.00
ATOM	6499	CG2	THR	X	432	46.457	27.387	25.590	0.00	0.00
ATOM	6500	HG21	THR	X	432	47.216	27.523	24.820	0.00	0.00
ATOM	6501	HG22	THR	X	432	46.809	27.907	26.481	0.00	0.00
ATOM	6502	HG23	THR	X	432	45.480	27.811	25.358	0.00	0.00
ATOM	6503	OG1	THR	X	432	45.746	25.332	24.750	0.00	0.00
ATOM	6504	HG1	THR	X	432	44.973	24.806	24.966	0.00	0.00
ATOM	6505	C	THR	X	432	48.446	25.672	27.246	0.00	0.00
ATOM	6506	O	THR	X	432	49.172	26.643	26.884	0.00	0.00
ATOM	6507	N	LEU	X	433	48.548	25.180	28.455	0.00	0.00
ATOM	6508	H	LEU	X	433	48.096	24.309	28.694	0.00	0.00
ATOM	6509	CA	LEU	X	433	49.391	25.898	29.454	0.00	0.00
ATOM	6510	HA	LEU	X	433	49.161	26.963	29.497	0.00	0.00
ATOM	6511	CB	LEU	X	433	48.949	25.179	30.722	0.00	0.00
ATOM	6512	HB2	LEU	X	433	48.001	24.663	30.566	0.00	0.00
ATOM	6513	HB3	LEU	X	433	49.767	24.528	31.031	0.00	0.00
ATOM	6514	CG	LEU	X	433	48.586	26.184	31.848	0.00	0.00
ATOM	6515	HG	LEU	X	433	47.643	26.672	31.603	0.00	0.00
ATOM	6516	CD1	LEU	X	433	48.351	25.368	33.115	0.00	0.00
ATOM	6517	HD11	LEU	X	433	49.269	25.227	33.686	0.00	0.00
ATOM	6518	HD12	LEU	X	433	47.932	24.371	32.976	0.00	0.00
ATOM	6519	HD13	LEU	X	433	47.708	25.979	33.748	0.00	0.00
ATOM	6520	CD2	LEU	X	433	49.660	27.271	32.122	0.00	0.00
ATOM	6521	HD21	LEU	X	433	49.866	27.902	31.258	0.00	0.00
ATOM	6522	HD22	LEU	X	433	49.230	27.975	32.835	0.00	0.00
ATOM	6523	HD23	LEU	X	433	50.558	26.844	32.568	0.00	0.00
ATOM	6524	C	LEU	X	433	50.918	25.784	29.197	0.00	0.00
ATOM	6525	O	LEU	X	433	51.445	24.715	28.892	0.00	0.00
ATOM	6526	N	SER	X	434	51.612	26.920	29.234	0.00	0.00
ATOM	6527	H	SER	X	434	51.072	27.764	29.358	0.00	0.00
ATOM	6528	CA	SER	X	434	52.920	27.122	28.698	0.00	0.00
ATOM	6529	HA	SER	X	434	53.133	26.306	28.007	0.00	0.00
ATOM	6530	CB	SER	X	434	52.984	28.408	27.840	0.00	0.00
ATOM	6531	HB2	SER	X	434	53.999	28.762	27.655	0.00	0.00
ATOM	6532	HB3	SER	X	434	52.505	28.173	26.890	0.00	0.00
ATOM	6533	OG	SER	X	434	52.296	29.453	28.399	0.00	0.00
ATOM	6534	HG	SER	X	434	51.344	29.448	28.270	0.00	0.00
ATOM	6535	C	SER	X	434	54.056	27.076	29.752	0.00	0.00
ATOM	6536	O	SER	X	434	55.151	26.630	29.486	0.00	0.00
ATOM	6537	N	TRP	X	435	53.688	27.644	30.915	0.00	0.00
ATOM	6538	H	TRP	X	435	52.779	28.079	30.982	0.00	0.00
ATOM	6539	CA	TRP	X	435	54.465	27.438	32.121	0.00	0.00
ATOM	6540	HA	TRP	X	435	55.414	27.966	32.026	0.00	0.00
ATOM	6541	CB	TRP	X	435	53.651	28.008	33.245	0.00	0.00
ATOM	6542	HB2	TRP	X	435	52.644	27.617	33.100	0.00	0.00
ATOM	6543	HB3	TRP	X	435	54.125	27.795	34.204	0.00	0.00
ATOM	6544	CG	TRP	X	435	53.490	29.474	33.200	0.00	0.00
ATOM	6545	CD1	TRP	X	435	52.295	30.050	32.988	0.00	0.00
ATOM	6546	HD1	TRP	X	435	51.356	29.527	33.096	0.00	0.00
ATOM	6547	NE1	TRP	X	435	52.500	31.435	32.917	0.00	0.00
ATOM	6548	HE1	TRP	X	435	51.729	32.061	32.734	0.00	0.00
ATOM	6549	CE2	TRP	X	435	53.826	31.800	33.049	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	54.497	33.035	33.236	0.00	0.00

ATOM	6551	HZ2	TRP	X	435	53.981	33.984	33.230	0.00	0.00
ATOM	6552	CH2	TRP	X	435	55.884	33.013	33.365	0.00	0.00
ATOM	6553	HH2	TRP	X	435	56.416	33.923	33.597	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	56.578	31.784	33.293	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	57.658	31.791	33.306	0.00	0.00
ATOM	6556	CE3	TRP	X	435	55.911	30.580	33.149	0.00	0.00
ATOM	6557	HE3	TRP	X	435	56.432	29.654	33.345	0.00	0.00
ATOM	6558	CD2	TRP	X	435	54.485	30.558	33.080	0.00	0.00
ATOM	6559	C	TRP	X	435	54.742	25.984	32.389	0.00	0.00
ATOM	6560	O	TRP	X	435	53.883	25.142	32.063	0.00	0.00
ATOM	6561	N	PRO	X	436	55.934	25.605	32.909	0.00	0.00
ATOM	6562	CD	PRO	X	436	57.050	26.479	33.342	0.00	0.00
ATOM	6563	HD2	PRO	X	436	56.665	27.329	33.905	0.00	0.00
ATOM	6564	HD3	PRO	X	436	57.684	26.820	32.524	0.00	0.00
ATOM	6565	CG	PRO	X	436	57.953	25.687	34.247	0.00	0.00
ATOM	6566	HG2	PRO	X	436	57.544	25.794	35.251	0.00	0.00
ATOM	6567	HG3	PRO	X	436	58.969	25.999	34.004	0.00	0.00
ATOM	6568	CB	PRO	X	436	57.790	24.236	33.758	0.00	0.00
ATOM	6569	HB2	PRO	X	436	57.892	23.474	34.531	0.00	0.00
ATOM	6570	HB3	PRO	X	436	58.422	24.081	32.883	0.00	0.00
ATOM	6571	CA	PRO	X	436	56.435	24.237	33.192	0.00	0.00
ATOM	6572	HA	PRO	X	436	56.448	23.698	32.245	0.00	0.00
ATOM	6573	C	PRO	X	436	55.553	23.452	34.147	0.00	0.00
ATOM	6574	O	PRO	X	436	54.831	24.107	34.934	0.00	0.00
ATOM	6575	N	LEU	X	437	55.666	22.113	34.023	0.00	0.00
ATOM	6576	H	LEU	X	437	56.251	21.790	33.266	0.00	0.00
ATOM	6577	CA	LEU	X	437	55.075	21.097	34.854	0.00	0.00
ATOM	6578	HA	LEU	X	437	54.002	21.088	34.665	0.00	0.00
ATOM	6579	CB	LEU	X	437	55.703	19.769	34.406	0.00	0.00
ATOM	6580	HB2	LEU	X	437	55.817	19.811	33.323	0.00	0.00
ATOM	6581	HB3	LEU	X	437	56.688	19.655	34.860	0.00	0.00
ATOM	6582	CG	LEU	X	437	54.965	18.510	34.846	0.00	0.00
ATOM	6583	HG	LEU	X	437	55.080	18.421	35.926	0.00	0.00
ATOM	6584	CD1	LEU	X	437	53.440	18.442	34.566	0.00	0.00
ATOM	6585	HD11	LEU	X	437	53.029	17.535	35.008	0.00	0.00
ATOM	6586	HD12	LEU	X	437	53.226	18.449	33.497	0.00	0.00
ATOM	6587	HD13	LEU	X	437	52.949	19.296	35.031	0.00	0.00
ATOM	6588	CD2	LEU	X	437	55.625	17.278	34.139	0.00	0.00
ATOM	6589	HD21	LEU	X	437	55.135	16.375	34.500	0.00	0.00
ATOM	6590	HD22	LEU	X	437	55.546	17.327	33.053	0.00	0.00
ATOM	6591	HD23	LEU	X	437	56.684	17.235	34.394	0.00	0.00
ATOM	6592	C	LEU	X	437	55.223	21.444	36.313	0.00	0.00
ATOM	6593	O	LEU	X	437	54.258	21.340	37.012	0.00	0.00
ATOM	6594	N	TRP	X	438	56.380	21.857	36.743	0.00	0.00
ATOM	6595	H	TRP	X	438	57.146	22.074	36.121	0.00	0.00
ATOM	6596	CA	TRP	X	438	56.739	22.144	38.062	0.00	0.00
ATOM	6597	HA	TRP	X	438	56.425	21.351	38.741	0.00	0.00
ATOM	6598	CB	TRP	X	438	58.275	22.252	38.249	0.00	0.00
ATOM	6599	HB2	TRP	X	438	58.580	22.480	39.271	0.00	0.00
ATOM	6600	HB3	TRP	X	438	58.688	21.246	38.178	0.00	0.00
ATOM	6601	CG	TRP	X	438	59.096	23.271	37.431	0.00	0.00
ATOM	6602	CD1	TRP	X	438	59.742	23.042	36.299	0.00	0.00
ATOM	6603	HD1	TRP	X	438	59.817	22.070	35.835	0.00	0.00
ATOM	6604	NE1	TRP	X	438	60.307	24.261	35.889	0.00	0.00
ATOM	6605	HE1	TRP	X	438	61.037	24.299	35.192	0.00	0.00
ATOM	6606	CE2	TRP	X	438	60.042	25.286	36.725	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	60.483	26.620	36.829	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	61.097	27.026	36.038	0.00	0.00
ATOM	6609	CH2	TRP	X	438	60.066	27.356	37.929	0.00	0.00
ATOM	6610	HH2	TRP	X	438	60.421	28.375	37.967	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	59.263	26.867	38.955	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	58.861	27.448	39.772	0.00	0.00
ATOM	6613	CE3	TRP	X	438	58.823	25.501	38.780	0.00	0.00
ATOM	6614	HE3	TRP	X	438	58.084	25.024	39.408	0.00	0.00
ATOM	6615	CD2	TRP	X	438	59.222	24.681	37.721	0.00	0.00
ATOM	6616	C	TRP	X	438	56.002	23.406	38.661	0.00	0.00
ATOM	6617	O	TRP	X	438	55.771	23.368	39.855	0.00	0.00

ATOM	6618	N	MET	X	439	55.605	24.307	37.760	0.00	0.00
ATOM	6619	H	MET	X	439	55.865	24.206	36.789	0.00	0.00
ATOM	6620	CA	MET	X	439	54.705	25.403	38.152	0.00	0.00
ATOM	6621	HA	MET	X	439	55.055	25.857	39.079	0.00	0.00
ATOM	6622	CB	MET	X	439	54.789	26.581	37.121	0.00	0.00
ATOM	6623	HB2	MET	X	439	55.013	26.093	36.173	0.00	0.00
ATOM	6624	HB3	MET	X	439	53.829	27.091	37.034	0.00	0.00
ATOM	6625	CG	MET	X	439	55.914	27.521	37.631	0.00	0.00
ATOM	6626	HG2	MET	X	439	55.490	27.998	38.514	0.00	0.00
ATOM	6627	HG3	MET	X	439	56.857	27.014	37.837	0.00	0.00
ATOM	6628	SD	MET	X	439	56.388	28.756	36.409	0.00	0.00
ATOM	6629	CE	MET	X	439	55.112	29.973	36.784	0.00	0.00
ATOM	6630	HE1	MET	X	439	55.146	30.261	37.834	0.00	0.00
ATOM	6631	HE2	MET	X	439	55.171	30.857	36.149	0.00	0.00
ATOM	6632	HE3	MET	X	439	54.163	29.462	36.626	0.00	0.00
ATOM	6633	C	MET	X	439	53.266	24.986	38.366	0.00	0.00
ATOM	6634	O	MET	X	439	52.467	25.713	38.988	0.00	0.00
ATOM	6635	N	GLY	X	440	52.889	23.819	37.977	0.00	0.00
ATOM	6636	H	GLY	X	440	53.550	23.164	37.584	0.00	0.00
ATOM	6637	CA	GLY	X	440	51.567	23.214	38.226	0.00	0.00
ATOM	6638	HA2	GLY	X	440	51.601	22.132	38.092	0.00	0.00
ATOM	6639	HA3	GLY	X	440	51.385	23.354	39.291	0.00	0.00
ATOM	6640	C	GLY	X	440	50.517	23.925	37.408	0.00	0.00
ATOM	6641	O	GLY	X	440	50.647	24.152	36.221	0.00	0.00
ATOM	6642	N	VAL	X	441	49.389	24.158	37.972	0.00	0.00
ATOM	6643	H	VAL	X	441	49.440	23.962	38.961	0.00	0.00
ATOM	6644	CA	VAL	X	441	48.313	25.042	37.452	0.00	0.00
ATOM	6645	HA	VAL	X	441	48.392	25.188	36.375	0.00	0.00
ATOM	6646	CB	VAL	X	441	46.921	24.467	37.735	0.00	0.00
ATOM	6647	HB	VAL	X	441	46.745	24.406	38.809	0.00	0.00
ATOM	6648	CG1	VAL	X	441	45.734	25.239	37.062	0.00	0.00
ATOM	6649	HG11	VAL	X	441	45.311	24.716	36.205	0.00	0.00
ATOM	6650	HG12	VAL	X	441	44.841	25.183	37.684	0.00	0.00
ATOM	6651	HG13	VAL	X	441	46.015	26.235	36.720	0.00	0.00
ATOM	6652	CG2	VAL	X	441	46.782	22.990	37.384	0.00	0.00
ATOM	6653	HG21	VAL	X	441	45.722	22.739	37.396	0.00	0.00
ATOM	6654	HG22	VAL	X	441	47.185	22.247	38.073	0.00	0.00
ATOM	6655	HG23	VAL	X	441	47.119	23.032	36.349	0.00	0.00
ATOM	6656	C	VAL	X	441	48.337	26.444	38.045	0.00	0.00
ATOM	6657	O	VAL	X	441	47.859	26.587	39.171	0.00	0.00
ATOM	6658	N	PRO	X	442	49.005	27.385	37.441	0.00	0.00
ATOM	6659	CD	PRO	X	442	49.781	27.242	36.182	0.00	0.00
ATOM	6660	HD2	PRO	X	442	49.090	26.943	35.393	0.00	0.00
ATOM	6661	HD3	PRO	X	442	50.637	26.578	36.298	0.00	0.00
ATOM	6662	CG	PRO	X	442	50.343	28.638	35.957	0.00	0.00
ATOM	6663	HG2	PRO	X	442	49.649	29.326	35.474	0.00	0.00
ATOM	6664	HG3	PRO	X	442	51.294	28.511	35.441	0.00	0.00
ATOM	6665	CB	PRO	X	442	50.634	29.103	37.399	0.00	0.00
ATOM	6666	HB2	PRO	X	442	50.593	30.186	37.516	0.00	0.00
ATOM	6667	HB3	PRO	X	442	51.613	28.647	37.552	0.00	0.00
ATOM	6668	CA	PRO	X	442	49.486	28.513	38.225	0.00	0.00
ATOM	6669	HA	PRO	X	442	49.818	28.133	39.191	0.00	0.00
ATOM	6670	C	PRO	X	442	48.341	29.512	38.296	0.00	0.00
ATOM	6671	O	PRO	X	442	47.359	29.395	37.573	0.00	0.00
ATOM	6672	N	HIP	X	443	48.500	30.521	39.076	0.00	0.00
ATOM	6673	H	HIP	X	443	49.305	30.475	39.685	0.00	0.00
ATOM	6674	CA	HIP	X	443	47.512	31.568	39.419	0.00	0.00
ATOM	6675	HA	HIP	X	443	46.717	31.163	40.045	0.00	0.00
ATOM	6676	CB	HIP	X	443	48.151	32.651	40.245	0.00	0.00
ATOM	6677	HB2	HIP	X	443	48.255	32.249	41.253	0.00	0.00
ATOM	6678	HB3	HIP	X	443	49.185	32.814	39.940	0.00	0.00
ATOM	6679	CG	HIP	X	443	47.407	33.991	40.396	0.00	0.00
ATOM	6680	ND1	HIP	X	443	46.173	34.210	41.054	0.00	0.00
ATOM	6681	HD1	HIP	X	443	45.717	33.587	41.705	0.00	0.00
ATOM	6682	CE1	HIP	X	443	45.780	35.448	40.734	0.00	0.00
ATOM	6683	HE1	HIP	X	443	44.854	35.852	41.116	0.00	0.00
ATOM	6684	NE2	HIP	X	443	46.673	36.045	39.922	0.00	0.00

ATOM	6685	HE2	HIP	X	443	46.510	36.916	39.438	0.00	0.00
ATOM	6686	CD2	HIP	X	443	47.712	35.164	39.687	0.00	0.00
ATOM	6687	HD2	HIP	X	443	48.440	35.235	38.892	0.00	0.00
ATOM	6688	C	HIP	X	443	46.855	32.189	38.242	0.00	0.00
ATOM	6689	O	HIP	X	443	47.532	32.720	37.341	0.00	0.00
ATOM	6690	N	GLY	X	444	45.458	32.102	38.220	0.00	0.00
ATOM	6691	H	GLY	X	444	44.979	31.589	38.946	0.00	0.00
ATOM	6692	CA	GLY	X	444	44.519	32.858	37.388	0.00	0.00
ATOM	6693	HA2	GLY	X	444	43.501	32.683	37.735	0.00	0.00
ATOM	6694	HA3	GLY	X	444	44.849	33.896	37.343	0.00	0.00
ATOM	6695	C	GLY	X	444	44.593	32.367	35.971	0.00	0.00
ATOM	6696	O	GLY	X	444	44.638	33.253	35.104	0.00	0.00
ATOM	6697	N	TYR	X	445	44.463	31.058	35.711	0.00	0.00
ATOM	6698	H	TYR	X	445	44.361	30.459	36.517	0.00	0.00
ATOM	6699	CA	TYR	X	445	44.440	30.389	34.455	0.00	0.00
ATOM	6700	HA	TYR	X	445	44.452	31.141	33.666	0.00	0.00
ATOM	6701	CB	TYR	X	445	45.760	29.524	34.301	0.00	0.00
ATOM	6702	HB2	TYR	X	445	46.137	29.097	35.230	0.00	0.00
ATOM	6703	HB3	TYR	X	445	45.429	28.635	33.764	0.00	0.00
ATOM	6704	CG	TYR	X	445	46.890	30.232	33.597	0.00	0.00
ATOM	6705	CD1	TYR	X	445	47.051	30.267	32.176	0.00	0.00
ATOM	6706	HD1	TYR	X	445	46.431	29.757	31.453	0.00	0.00
ATOM	6707	CE1	TYR	X	445	48.031	31.090	31.677	0.00	0.00
ATOM	6708	HE1	TYR	X	445	48.254	31.141	30.622	0.00	0.00
ATOM	6709	CZ	TYR	X	445	48.873	31.908	32.509	0.00	0.00
ATOM	6710	OH	TYR	X	445	49.714	32.863	32.064	0.00	0.00
ATOM	6711	HH	TYR	X	445	49.708	32.849	31.104	0.00	0.00
ATOM	6712	CE2	TYR	X	445	48.730	31.797	33.907	0.00	0.00
ATOM	6713	HE2	TYR	X	445	49.425	32.381	34.494	0.00	0.00
ATOM	6714	CD2	TYR	X	445	47.707	30.984	34.458	0.00	0.00
ATOM	6715	HD2	TYR	X	445	47.454	30.938	35.507	0.00	0.00
ATOM	6716	C	TYR	X	445	43.251	29.452	34.152	0.00	0.00
ATOM	6717	O	TYR	X	445	43.038	29.076	32.982	0.00	0.00
ATOM	6718	N	GLU	X	446	42.404	29.150	35.067	0.00	0.00
ATOM	6719	H	GLU	X	446	42.461	29.512	36.007	0.00	0.00
ATOM	6720	CA	GLU	X	446	41.148	28.304	34.823	0.00	0.00
ATOM	6721	HA	GLU	X	446	41.490	27.467	34.214	0.00	0.00
ATOM	6722	CB	GLU	X	446	40.592	27.773	36.238	0.00	0.00
ATOM	6723	HB2	GLU	X	446	39.882	26.963	36.071	0.00	0.00
ATOM	6724	HB3	GLU	X	446	41.359	27.397	36.915	0.00	0.00
ATOM	6725	CG	GLU	X	446	39.815	28.741	37.064	0.00	0.00
ATOM	6726	HG2	GLU	X	446	38.867	28.895	36.549	0.00	0.00
ATOM	6727	HG3	GLU	X	446	39.664	28.215	38.008	0.00	0.00
ATOM	6728	CD	GLU	X	446	40.392	30.069	37.541	0.00	0.00
ATOM	6729	OE1	GLU	X	446	41.172	30.678	36.800	0.00	0.00
ATOM	6730	OE2	GLU	X	446	39.784	30.604	38.544	0.00	0.00
ATOM	6731	C	GLU	X	446	40.055	29.084	34.005	0.00	0.00
ATOM	6732	O	GLU	X	446	39.136	28.459	33.468	0.00	0.00
ATOM	6733	N	ILE	X	447	40.175	30.442	33.974	0.00	0.00
ATOM	6734	H	ILE	X	447	40.818	30.869	34.625	0.00	0.00
ATOM	6735	CA	ILE	X	447	39.227	31.375	33.245	0.00	0.00
ATOM	6736	HA	ILE	X	447	38.294	31.185	33.776	0.00	0.00
ATOM	6737	CB	ILE	X	447	39.766	32.827	33.325	0.00	0.00
ATOM	6738	HB	ILE	X	447	39.017	33.405	32.783	0.00	0.00
ATOM	6739	CG2	ILE	X	447	39.712	33.337	34.787	0.00	0.00
ATOM	6740	HG21	ILE	X	447	38.830	32.970	35.312	0.00	0.00
ATOM	6741	HG22	ILE	X	447	39.904	34.409	34.812	0.00	0.00
ATOM	6742	HG23	ILE	X	447	40.559	32.949	35.353	0.00	0.00
ATOM	6743	CG1	ILE	X	447	41.114	33.022	32.602	0.00	0.00
ATOM	6744	HG12	ILE	X	447	41.860	32.289	32.911	0.00	0.00
ATOM	6745	HG13	ILE	X	447	41.017	32.785	31.542	0.00	0.00
ATOM	6746	CD1	ILE	X	447	41.730	34.468	32.727	0.00	0.00
ATOM	6747	HD11	ILE	X	447	42.211	34.634	33.691	0.00	0.00
ATOM	6748	HD12	ILE	X	447	40.987	35.260	32.627	0.00	0.00
ATOM	6749	HD13	ILE	X	447	42.378	34.537	31.854	0.00	0.00
ATOM	6750	C	ILE	X	447	38.792	30.975	31.871	0.00	0.00
ATOM	6751	O	ILE	X	447	37.623	31.285	31.526	0.00	0.00

ATOM	6752	N	GLU	X	448	39.685	30.439	31.013	0.00	0.00
ATOM	6753	H	GLU	X	448	40.601	30.199	31.365	0.00	0.00
ATOM	6754	CA	GLU	X	448	39.473	29.993	29.600	0.00	0.00
ATOM	6755	HA	GLU	X	448	39.220	30.910	29.068	0.00	0.00
ATOM	6756	CB	GLU	X	448	40.831	29.540	28.982	0.00	0.00
ATOM	6757	HB2	GLU	X	448	40.698	28.685	28.319	0.00	0.00
ATOM	6758	HB3	GLU	X	448	41.202	30.329	28.328	0.00	0.00
ATOM	6759	CG	GLU	X	448	41.925	29.241	30.066	0.00	0.00
ATOM	6760	HG2	GLU	X	448	42.107	30.169	30.608	0.00	0.00
ATOM	6761	HG3	GLU	X	448	41.550	28.536	30.807	0.00	0.00
ATOM	6762	CD	GLU	X	448	43.225	28.592	29.515	0.00	0.00
ATOM	6763	OE1	GLU	X	448	44.168	29.341	29.044	0.00	0.00
ATOM	6764	OE2	GLU	X	448	43.400	27.357	29.653	0.00	0.00
ATOM	6765	C	GLU	X	448	38.279	29.055	29.453	0.00	0.00
ATOM	6766	O	GLU	X	448	37.504	29.246	28.523	0.00	0.00
ATOM	6767	N	PHE	X	449	38.167	28.082	30.397	0.00	0.00
ATOM	6768	H	PHE	X	449	38.772	28.091	31.206	0.00	0.00
ATOM	6769	CA	PHE	X	449	37.105	27.105	30.439	0.00	0.00
ATOM	6770	HA	PHE	X	449	37.042	26.668	29.443	0.00	0.00
ATOM	6771	CB	PHE	X	449	37.480	26.122	31.477	0.00	0.00
ATOM	6772	HB2	PHE	X	449	37.828	26.668	32.355	0.00	0.00
ATOM	6773	HB3	PHE	X	449	36.572	25.553	31.677	0.00	0.00
ATOM	6774	CG	PHE	X	449	38.591	25.141	31.035	0.00	0.00
ATOM	6775	CD1	PHE	X	449	39.983	25.533	31.130	0.00	0.00
ATOM	6776	HD1	PHE	X	449	40.161	26.552	31.440	0.00	0.00
ATOM	6777	CE1	PHE	X	449	40.987	24.710	30.759	0.00	0.00
ATOM	6778	HE1	PHE	X	449	42.006	25.052	30.865	0.00	0.00
ATOM	6779	CZ	PHE	X	449	40.710	23.373	30.296	0.00	0.00
ATOM	6780	HZ	PHE	X	449	41.462	22.751	29.833	0.00	0.00
ATOM	6781	CE2	PHE	X	449	39.368	22.927	30.297	0.00	0.00
ATOM	6782	HE2	PHE	X	449	39.252	21.882	30.048	0.00	0.00
ATOM	6783	CD2	PHE	X	449	38.283	23.781	30.686	0.00	0.00
ATOM	6784	HD2	PHE	X	449	37.261	23.433	30.724	0.00	0.00
ATOM	6785	C	PHE	X	449	35.814	27.866	30.573	0.00	0.00
ATOM	6786	O	PHE	X	449	34.826	27.709	29.857	0.00	0.00
ATOM	6787	N	ILE	X	450	35.741	28.816	31.574	0.00	0.00
ATOM	6788	H	ILE	X	450	36.563	28.961	32.143	0.00	0.00
ATOM	6789	CA	ILE	X	450	34.582	29.584	31.954	0.00	0.00
ATOM	6790	HA	ILE	X	450	33.746	28.932	32.205	0.00	0.00
ATOM	6791	CB	ILE	X	450	34.741	30.426	33.299	0.00	0.00
ATOM	6792	HB	ILE	X	450	35.133	31.399	33.003	0.00	0.00
ATOM	6793	CG2	ILE	X	450	33.338	30.586	33.938	0.00	0.00
ATOM	6794	HG21	ILE	X	450	33.049	29.553	34.130	0.00	0.00
ATOM	6795	HG22	ILE	X	450	32.717	31.037	33.164	0.00	0.00
ATOM	6796	HG23	ILE	X	450	33.338	31.210	34.832	0.00	0.00
ATOM	6797	CG1	ILE	X	450	35.787	29.845	34.321	0.00	0.00
ATOM	6798	HG12	ILE	X	450	36.791	29.922	33.905	0.00	0.00
ATOM	6799	HG13	ILE	X	450	35.742	30.388	35.265	0.00	0.00
ATOM	6800	CD1	ILE	X	450	35.431	28.369	34.844	0.00	0.00
ATOM	6801	HD11	ILE	X	450	34.363	28.308	35.054	0.00	0.00
ATOM	6802	HD12	ILE	X	450	36.025	28.060	35.705	0.00	0.00
ATOM	6803	HD13	ILE	X	450	35.752	27.673	34.068	0.00	0.00
ATOM	6804	C	ILE	X	450	34.054	30.450	30.786	0.00	0.00
ATOM	6805	O	ILE	X	450	32.871	30.421	30.498	0.00	0.00
ATOM	6806	N	PHE	X	451	34.956	31.181	30.111	0.00	0.00
ATOM	6807	H	PHE	X	451	35.926	31.133	30.386	0.00	0.00
ATOM	6808	CA	PHE	X	451	34.601	31.937	28.898	0.00	0.00
ATOM	6809	HA	PHE	X	451	33.700	32.513	29.111	0.00	0.00
ATOM	6810	CB	PHE	X	451	35.767	32.829	28.524	0.00	0.00
ATOM	6811	HB2	PHE	X	451	36.719	32.327	28.694	0.00	0.00
ATOM	6812	HB3	PHE	X	451	35.710	33.062	27.460	0.00	0.00
ATOM	6813	CG	PHE	X	451	35.788	34.129	29.269	0.00	0.00
ATOM	6814	CD1	PHE	X	451	36.804	34.336	30.235	0.00	0.00
ATOM	6815	HD1	PHE	X	451	37.494	33.564	30.541	0.00	0.00
ATOM	6816	CE1	PHE	X	451	37.012	35.614	30.757	0.00	0.00
ATOM	6817	HE1	PHE	X	451	37.763	35.890	31.482	0.00	0.00
ATOM	6818	CZ	PHE	X	451	36.047	36.619	30.432	0.00	0.00

ATOM	6819	HZ	PHE	X	451	36.152	37.575	30.923	0.00	0.00
ATOM	6820	CE2	PHE	X	451	34.989	36.394	29.484	0.00	0.00
ATOM	6821	HE2	PHE	X	451	34.234	37.126	29.237	0.00	0.00
ATOM	6822	CD2	PHE	X	451	34.923	35.099	28.896	0.00	0.00
ATOM	6823	HD2	PHE	X	451	34.217	34.840	28.121	0.00	0.00
ATOM	6824	C	PHE	X	451	34.173	31.106	27.650	0.00	0.00
ATOM	6825	O	PHE	X	451	33.523	31.633	26.771	0.00	0.00
ATOM	6826	N	GLY	X	452	34.543	29.861	27.626	0.00	0.00
ATOM	6827	H	GLY	X	452	35.132	29.646	28.418	0.00	0.00
ATOM	6828	CA	GLY	X	452	34.346	28.974	26.546	0.00	0.00
ATOM	6829	HA2	GLY	X	452	34.135	27.946	26.841	0.00	0.00
ATOM	6830	HA3	GLY	X	452	33.515	29.280	25.911	0.00	0.00
ATOM	6831	C	GLY	X	452	35.507	28.862	25.512	0.00	0.00
ATOM	6832	O	GLY	X	452	35.391	28.125	24.561	0.00	0.00
ATOM	6833	N	ILE	X	453	36.632	29.506	25.749	0.00	0.00
ATOM	6834	H	ILE	X	453	36.817	29.813	26.693	0.00	0.00
ATOM	6835	CA	ILE	X	453	37.815	29.587	24.923	0.00	0.00
ATOM	6836	HA	ILE	X	453	37.455	30.110	24.036	0.00	0.00
ATOM	6837	CB	ILE	X	453	38.969	30.258	25.658	0.00	0.00
ATOM	6838	HB	ILE	X	453	39.043	29.684	26.582	0.00	0.00
ATOM	6839	CG2	ILE	X	453	40.267	30.275	24.878	0.00	0.00
ATOM	6840	HG21	ILE	X	453	40.152	30.753	23.906	0.00	0.00
ATOM	6841	HG22	ILE	X	453	40.649	29.264	24.737	0.00	0.00
ATOM	6842	HG23	ILE	X	453	41.027	30.785	25.470	0.00	0.00
ATOM	6843	CG1	ILE	X	453	38.706	31.693	26.205	0.00	0.00
ATOM	6844	HG12	ILE	X	453	37.924	31.522	26.945	0.00	0.00
ATOM	6845	HG13	ILE	X	453	39.549	32.114	26.752	0.00	0.00
ATOM	6846	CD1	ILE	X	453	38.147	32.773	25.236	0.00	0.00
ATOM	6847	HD11	ILE	X	453	37.122	32.565	24.928	0.00	0.00
ATOM	6848	HD12	ILE	X	453	38.761	32.978	24.359	0.00	0.00
ATOM	6849	HD13	ILE	X	453	38.029	33.700	25.798	0.00	0.00
ATOM	6850	C	ILE	X	453	38.249	28.128	24.439	0.00	0.00
ATOM	6851	O	ILE	X	453	38.564	28.041	23.259	0.00	0.00
ATOM	6852	N	PRO	X	454	38.311	26.977	25.207	0.00	0.00
ATOM	6853	CD	PRO	X	454	38.196	26.912	26.681	0.00	0.00
ATOM	6854	HD2	PRO	X	454	37.169	27.067	27.011	0.00	0.00
ATOM	6855	HD3	PRO	X	454	38.781	27.685	27.180	0.00	0.00
ATOM	6856	CG	PRO	X	454	38.697	25.560	27.130	0.00	0.00
ATOM	6857	HG2	PRO	X	454	38.159	25.185	28.001	0.00	0.00
ATOM	6858	HG3	PRO	X	454	39.764	25.669	27.320	0.00	0.00
ATOM	6859	CB	PRO	X	454	38.548	24.709	25.880	0.00	0.00
ATOM	6860	HB2	PRO	X	454	37.535	24.314	25.951	0.00	0.00
ATOM	6861	HB3	PRO	X	454	39.277	23.901	25.834	0.00	0.00
ATOM	6862	CA	PRO	X	454	38.628	25.671	24.678	0.00	0.00
ATOM	6863	HA	PRO	X	454	39.697	25.629	24.471	0.00	0.00
ATOM	6864	C	PRO	X	454	37.779	25.222	23.546	0.00	0.00
ATOM	6865	O	PRO	X	454	38.174	24.257	22.923	0.00	0.00
ATOM	6866	N	LEU	X	455	36.615	25.811	23.284	0.00	0.00
ATOM	6867	H	LEU	X	455	36.430	26.730	23.661	0.00	0.00
ATOM	6868	CA	LEU	X	455	35.756	25.544	22.130	0.00	0.00
ATOM	6869	HA	LEU	X	455	35.780	24.483	21.882	0.00	0.00
ATOM	6870	CB	LEU	X	455	34.349	25.739	22.589	0.00	0.00
ATOM	6871	HB2	LEU	X	455	34.163	26.795	22.784	0.00	0.00
ATOM	6872	HB3	LEU	X	455	33.684	25.510	21.756	0.00	0.00
ATOM	6873	CG	LEU	X	455	33.892	24.843	23.748	0.00	0.00
ATOM	6874	HG	LEU	X	455	34.540	25.206	24.545	0.00	0.00
ATOM	6875	CD1	LEU	X	455	32.376	25.150	23.993	0.00	0.00
ATOM	6876	HD11	LEU	X	455	32.062	25.148	25.037	0.00	0.00
ATOM	6877	HD12	LEU	X	455	31.815	24.468	23.353	0.00	0.00
ATOM	6878	HD13	LEU	X	455	32.177	26.191	23.735	0.00	0.00
ATOM	6879	CD2	LEU	X	455	34.066	23.308	23.547	0.00	0.00
ATOM	6880	HD21	LEU	X	455	33.543	22.988	22.645	0.00	0.00
ATOM	6881	HD22	LEU	X	455	35.099	22.963	23.496	0.00	0.00
ATOM	6882	HD23	LEU	X	455	33.597	22.709	24.327	0.00	0.00
ATOM	6883	C	LEU	X	455	36.060	26.235	20.867	0.00	0.00
ATOM	6884	O	LEU	X	455	35.359	25.983	19.877	0.00	0.00
ATOM	6885	N	ASP	X	456	37.027	27.163	20.831	0.00	0.00

ATOM	6886	H	ASP	X	456	37.448	27.390	21.720	0.00	0.00
ATOM	6887	CA	ASP	X	456	37.565	27.795	19.643	0.00	0.00
ATOM	6888	HA	ASP	X	456	36.663	28.164	19.153	0.00	0.00
ATOM	6889	CB	ASP	X	456	38.214	29.093	19.976	0.00	0.00
ATOM	6890	HB2	ASP	X	456	37.588	29.645	20.678	0.00	0.00
ATOM	6891	HB3	ASP	X	456	39.174	28.830	20.418	0.00	0.00
ATOM	6892	CG	ASP	X	456	38.571	29.973	18.723	0.00	0.00
ATOM	6893	OD1	ASP	X	456	38.339	31.219	18.801	0.00	0.00
ATOM	6894	OD2	ASP	X	456	39.050	29.499	17.710	0.00	0.00
ATOM	6895	C	ASP	X	456	38.381	26.833	18.805	0.00	0.00
ATOM	6896	O	ASP	X	456	39.416	26.313	19.190	0.00	0.00
ATOM	6897	N	PRO	X	457	37.939	26.608	17.545	0.00	0.00
ATOM	6898	CD	PRO	X	457	36.704	27.083	16.942	0.00	0.00
ATOM	6899	HD2	PRO	X	457	36.739	28.165	17.063	0.00	0.00
ATOM	6900	HD3	PRO	X	457	35.817	26.686	17.435	0.00	0.00
ATOM	6901	CG	PRO	X	457	36.771	26.725	15.447	0.00	0.00
ATOM	6902	HG2	PRO	X	457	37.291	27.571	15.000	0.00	0.00
ATOM	6903	HG3	PRO	X	457	35.796	26.673	14.963	0.00	0.00
ATOM	6904	CB	PRO	X	457	37.578	25.365	15.482	0.00	0.00
ATOM	6905	HB2	PRO	X	457	38.135	25.162	14.567	0.00	0.00
ATOM	6906	HB3	PRO	X	457	36.944	24.502	15.687	0.00	0.00
ATOM	6907	CA	PRO	X	457	38.579	25.696	16.588	0.00	0.00
ATOM	6908	HA	PRO	X	457	38.750	24.774	17.144	0.00	0.00
ATOM	6909	C	PRO	X	457	39.959	26.151	16.025	0.00	0.00
ATOM	6910	O	PRO	X	457	40.683	25.402	15.352	0.00	0.00
ATOM	6911	N	SER	X	458	40.305	27.412	16.273	0.00	0.00
ATOM	6912	H	SER	X	458	39.785	27.972	16.934	0.00	0.00
ATOM	6913	CA	SER	X	458	41.674	27.966	15.859	0.00	0.00
ATOM	6914	HA	SER	X	458	42.058	27.511	14.946	0.00	0.00
ATOM	6915	CB	SER	X	458	41.692	29.466	15.697	0.00	0.00
ATOM	6916	HB2	SER	X	458	42.673	29.763	15.325	0.00	0.00
ATOM	6917	HB3	SER	X	458	40.894	29.689	14.989	0.00	0.00
ATOM	6918	OG	SER	X	458	41.314	30.073	16.915	0.00	0.00
ATOM	6919	HG	SER	X	458	40.402	29.869	17.134	0.00	0.00
ATOM	6920	C	SER	X	458	42.663	27.622	16.968	0.00	0.00
ATOM	6921	O	SER	X	458	43.888	27.803	16.765	0.00	0.00
ATOM	6922	N	ARG	X	459	42.272	27.219	18.169	0.00	0.00
ATOM	6923	H	ARG	X	459	41.310	26.911	18.185	0.00	0.00
ATOM	6924	CA	ARG	X	459	43.083	26.975	19.306	0.00	0.00
ATOM	6925	HA	ARG	X	459	44.013	27.503	19.098	0.00	0.00
ATOM	6926	CB	ARG	X	459	42.537	27.550	20.587	0.00	0.00
ATOM	6927	HB2	ARG	X	459	41.559	27.101	20.759	0.00	0.00
ATOM	6928	HB3	ARG	X	459	43.277	27.284	21.342	0.00	0.00
ATOM	6929	CG	ARG	X	459	42.408	29.097	20.557	0.00	0.00
ATOM	6930	HG2	ARG	X	459	43.383	29.515	20.303	0.00	0.00
ATOM	6931	HG3	ARG	X	459	41.684	29.206	19.750	0.00	0.00
ATOM	6932	CD	ARG	X	459	41.986	29.653	21.915	0.00	0.00
ATOM	6933	HD2	ARG	X	459	41.344	28.916	22.397	0.00	0.00
ATOM	6934	HD3	ARG	X	459	42.823	29.686	22.612	0.00	0.00
ATOM	6935	NE	ARG	X	459	41.369	30.994	21.797	0.00	0.00
ATOM	6936	HE	ARG	X	459	40.376	31.041	21.615	0.00	0.00
ATOM	6937	CZ	ARG	X	459	41.832	32.169	22.278	0.00	0.00
ATOM	6938	NH1	ARG	X	459	43.048	32.450	22.652	0.00	0.00
ATOM	6939	HH11	ARG	X	459	43.735	31.762	22.378	0.00	0.00
ATOM	6940	HH12	ARG	X	459	43.358	33.345	23.003	0.00	0.00
ATOM	6941	NH2	ARG	X	459	41.026	33.090	22.592	0.00	0.00
ATOM	6942	HH21	ARG	X	459	40.042	32.869	22.545	0.00	0.00
ATOM	6943	HH22	ARG	X	459	41.389	34.012	22.787	0.00	0.00
ATOM	6944	C	ARG	X	459	43.353	25.488	19.446	0.00	0.00
ATOM	6945	O	ARG	X	459	42.406	24.704	19.277	0.00	0.00
ATOM	6946	N	ASN	X	460	44.532	25.051	19.838	0.00	0.00
ATOM	6947	H	ASN	X	460	45.235	25.657	20.239	0.00	0.00
ATOM	6948	CA	ASN	X	460	44.751	23.650	20.089	0.00	0.00
ATOM	6949	HA	ASN	X	460	44.053	23.209	19.378	0.00	0.00
ATOM	6950	CB	ASN	X	460	46.214	23.281	19.824	0.00	0.00
ATOM	6951	HB2	ASN	X	460	46.579	23.929	19.027	0.00	0.00
ATOM	6952	HB3	ASN	X	460	46.791	23.507	20.721	0.00	0.00

ATOM	6953	CG	ASN	X	460	46.434	21.799	19.454	0.00	0.00
ATOM	6954	OD1	ASN	X	460	46.013	21.361	18.343	0.00	0.00
ATOM	6955	ND2	ASN	X	460	46.888	20.986	20.396	0.00	0.00
ATOM	6956	HD21	ASN	X	460	46.806	20.005	20.167	0.00	0.00
ATOM	6957	HD22	ASN	X	460	47.201	21.315	21.298	0.00	0.00
ATOM	6958	C	ASN	X	460	44.290	23.248	21.436	0.00	0.00
ATOM	6959	O	ASN	X	460	44.940	23.567	22.465	0.00	0.00
ATOM	6960	N	TYR	X	461	43.094	22.624	21.571	0.00	0.00
ATOM	6961	H	TYR	X	461	42.640	22.347	20.713	0.00	0.00
ATOM	6962	CA	TYR	X	461	42.622	21.895	22.761	0.00	0.00
ATOM	6963	HA	TYR	X	461	43.441	21.563	23.398	0.00	0.00
ATOM	6964	CB	TYR	X	461	41.607	22.726	23.664	0.00	0.00
ATOM	6965	HB2	TYR	X	461	40.682	22.970	23.141	0.00	0.00
ATOM	6966	HB3	TYR	X	461	41.249	22.045	24.436	0.00	0.00
ATOM	6967	CG	TYR	X	461	42.169	24.003	24.268	0.00	0.00
ATOM	6968	CD1	TYR	X	461	42.129	25.211	23.545	0.00	0.00
ATOM	6969	HD1	TYR	X	461	41.840	25.259	22.505	0.00	0.00
ATOM	6970	CE1	TYR	X	461	42.430	26.442	24.169	0.00	0.00
ATOM	6971	HE1	TYR	X	461	42.231	27.368	23.649	0.00	0.00
ATOM	6972	CZ	TYR	X	461	42.741	26.470	25.524	0.00	0.00
ATOM	6973	OH	TYR	X	461	42.806	27.697	26.069	0.00	0.00
ATOM	6974	HH	TYR	X	461	42.968	27.659	27.015	0.00	0.00
ATOM	6975	CE2	TYR	X	461	42.800	25.324	26.312	0.00	0.00
ATOM	6976	HE2	TYR	X	461	43.048	25.199	27.356	0.00	0.00
ATOM	6977	CD2	TYR	X	461	42.566	24.060	25.650	0.00	0.00
ATOM	6978	HD2	TYR	X	461	42.633	23.107	26.153	0.00	0.00
ATOM	6979	C	TYR	X	461	41.946	20.579	22.358	0.00	0.00
ATOM	6980	O	TYR	X	461	41.365	20.356	21.251	0.00	0.00
ATOM	6981	N	THR	X	462	42.179	19.584	23.226	0.00	0.00
ATOM	6982	H	THR	X	462	42.724	19.812	24.046	0.00	0.00
ATOM	6983	CA	THR	X	462	41.757	18.174	23.159	0.00	0.00
ATOM	6984	HA	THR	X	462	41.829	17.686	22.187	0.00	0.00
ATOM	6985	CB	THR	X	462	42.727	17.363	24.047	0.00	0.00
ATOM	6986	HB	THR	X	462	42.501	16.316	23.847	0.00	0.00
ATOM	6987	CG2	THR	X	462	44.223	17.621	23.794	0.00	0.00
ATOM	6988	HG21	THR	X	462	44.760	16.958	24.473	0.00	0.00
ATOM	6989	HG22	THR	X	462	44.433	18.686	23.885	0.00	0.00
ATOM	6990	HG23	THR	X	462	44.442	17.329	22.767	0.00	0.00
ATOM	6991	OG1	THR	X	462	42.556	17.770	25.380	0.00	0.00
ATOM	6992	HG1	THR	X	462	42.791	18.696	25.476	0.00	0.00
ATOM	6993	C	THR	X	462	40.385	17.966	23.548	0.00	0.00
ATOM	6994	O	THR	X	462	39.785	18.629	24.357	0.00	0.00
ATOM	6995	N	ALA	X	463	39.771	16.904	23.043	0.00	0.00
ATOM	6996	H	ALA	X	463	40.287	16.304	22.414	0.00	0.00
ATOM	6997	CA	ALA	X	463	38.328	16.643	23.182	0.00	0.00
ATOM	6998	HA	ALA	X	463	37.828	17.553	22.850	0.00	0.00
ATOM	6999	CB	ALA	X	463	37.960	15.514	22.189	0.00	0.00
ATOM	7000	HB1	ALA	X	463	38.552	14.685	22.576	0.00	0.00
ATOM	7001	HB2	ALA	X	463	38.209	15.580	21.130	0.00	0.00
ATOM	7002	HB3	ALA	X	463	36.905	15.238	22.208	0.00	0.00
ATOM	7003	C	ALA	X	463	37.796	16.412	24.630	0.00	0.00
ATOM	7004	O	ALA	X	463	36.628	16.672	24.952	0.00	0.00
ATOM	7005	N	GLU	X	464	38.676	15.926	25.575	0.00	0.00
ATOM	7006	H	GLU	X	464	39.524	15.515	25.212	0.00	0.00
ATOM	7007	CA	GLU	X	464	38.445	15.874	27.028	0.00	0.00
ATOM	7008	HA	GLU	X	464	37.584	15.218	27.153	0.00	0.00
ATOM	7009	CB	GLU	X	464	39.564	15.047	27.752	0.00	0.00
ATOM	7010	HB2	GLU	X	464	39.425	14.891	28.822	0.00	0.00
ATOM	7011	HB3	GLU	X	464	39.551	14.031	27.358	0.00	0.00
ATOM	7012	CG	GLU	X	464	40.986	15.586	27.507	0.00	0.00
ATOM	7013	HG2	GLU	X	464	40.938	16.670	27.404	0.00	0.00
ATOM	7014	HG3	GLU	X	464	41.518	15.371	28.434	0.00	0.00
ATOM	7015	CD	GLU	X	464	41.689	14.832	26.369	0.00	0.00
ATOM	7016	OE1	GLU	X	464	40.991	14.443	25.397	0.00	0.00
ATOM	7017	OE2	GLU	X	464	42.910	14.634	26.509	0.00	0.00
ATOM	7018	C	GLU	X	464	38.264	17.256	27.710	0.00	0.00
ATOM	7019	O	GLU	X	464	37.478	17.433	28.682	0.00	0.00

ATOM	7020	N	GLU	X	465	38.867	18.240	27.119	0.00	0.00
ATOM	7021	H	GLU	X	465	39.460	17.996	26.339	0.00	0.00
ATOM	7022	CA	GLU	X	465	38.808	19.638	27.618	0.00	0.00
ATOM	7023	HA	GLU	X	465	38.604	19.630	28.688	0.00	0.00
ATOM	7024	CB	GLU	X	465	40.071	20.371	27.176	0.00	0.00
ATOM	7025	HB2	GLU	X	465	40.098	20.344	26.086	0.00	0.00
ATOM	7026	HB3	GLU	X	465	40.068	21.432	27.423	0.00	0.00
ATOM	7027	CG	GLU	X	465	41.275	19.731	27.840	0.00	0.00
ATOM	7028	HG2	GLU	X	465	41.101	19.765	28.916	0.00	0.00
ATOM	7029	HG3	GLU	X	465	41.267	18.668	27.600	0.00	0.00
ATOM	7030	CD	GLU	X	465	42.621	20.234	27.293	0.00	0.00
ATOM	7031	OE1	GLU	X	465	42.922	20.295	26.068	0.00	0.00
ATOM	7032	OE2	GLU	X	465	43.509	20.533	28.092	0.00	0.00
ATOM	7033	C	GLU	X	465	37.606	20.393	27.038	0.00	0.00
ATOM	7034	O	GLU	X	465	36.978	21.097	27.803	0.00	0.00
ATOM	7035	N	LYS	X	466	37.276	20.138	25.801	0.00	0.00
ATOM	7036	H	LYS	X	466	37.993	19.679	25.256	0.00	0.00
ATOM	7037	CA	LYS	X	466	36.121	20.648	25.180	0.00	0.00
ATOM	7038	HA	LYS	X	466	36.147	21.737	25.239	0.00	0.00
ATOM	7039	CB	LYS	X	466	36.016	20.115	23.727	0.00	0.00
ATOM	7040	HB2	LYS	X	466	36.084	19.035	23.600	0.00	0.00
ATOM	7041	HB3	LYS	X	466	35.094	20.480	23.274	0.00	0.00
ATOM	7042	CG	LYS	X	466	37.063	20.923	22.845	0.00	0.00
ATOM	7043	HG2	LYS	X	466	36.840	21.981	22.986	0.00	0.00
ATOM	7044	HG3	LYS	X	466	38.054	20.617	23.178	0.00	0.00
ATOM	7045	CD	LYS	X	466	36.961	20.554	21.351	0.00	0.00
ATOM	7046	HD2	LYS	X	466	36.975	19.476	21.191	0.00	0.00
ATOM	7047	HD3	LYS	X	466	36.010	20.861	20.916	0.00	0.00
ATOM	7048	CE	LYS	X	466	38.137	21.253	20.562	0.00	0.00
ATOM	7049	HE2	LYS	X	466	39.127	20.981	20.927	0.00	0.00
ATOM	7050	HE3	LYS	X	466	38.171	20.939	19.518	0.00	0.00
ATOM	7051	NZ	LYS	X	466	38.130	22.756	20.467	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	37.342	22.968	19.873	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	38.036	23.112	21.408	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	38.935	23.104	19.967	0.00	0.00
ATOM	7055	C	LYS	X	466	34.755	20.236	25.890	0.00	0.00
ATOM	7056	O	LYS	X	466	33.799	20.992	26.051	0.00	0.00
ATOM	7057	N	ILE	X	467	34.693	19.027	26.382	0.00	0.00
ATOM	7058	H	ILE	X	467	35.553	18.498	26.388	0.00	0.00
ATOM	7059	CA	ILE	X	467	33.637	18.634	27.277	0.00	0.00
ATOM	7060	HA	ILE	X	467	32.690	18.931	26.826	0.00	0.00
ATOM	7061	CB	ILE	X	467	33.593	17.044	27.343	0.00	0.00
ATOM	7062	HB	ILE	X	467	34.541	16.650	27.711	0.00	0.00
ATOM	7063	CG2	ILE	X	467	32.480	16.620	28.375	0.00	0.00
ATOM	7064	HG21	ILE	X	467	32.267	15.553	28.452	0.00	0.00
ATOM	7065	HG22	ILE	X	467	31.551	17.134	28.128	0.00	0.00
ATOM	7066	HG23	ILE	X	467	32.686	17.001	29.375	0.00	0.00
ATOM	7067	CG1	ILE	X	467	33.391	16.124	26.143	0.00	0.00
ATOM	7068	HG12	ILE	X	467	34.255	16.107	25.478	0.00	0.00
ATOM	7069	HG13	ILE	X	467	33.493	15.073	26.415	0.00	0.00
ATOM	7070	CD1	ILE	X	467	32.074	16.327	25.368	0.00	0.00
ATOM	7071	HD11	ILE	X	467	31.821	15.452	24.770	0.00	0.00
ATOM	7072	HD12	ILE	X	467	32.254	17.240	24.800	0.00	0.00
ATOM	7073	HD13	ILE	X	467	31.264	16.500	26.076	0.00	0.00
ATOM	7074	C	ILE	X	467	33.625	19.234	28.698	0.00	0.00
ATOM	7075	O	ILE	X	467	32.708	19.853	29.148	0.00	0.00
ATOM	7076	N	PHE	X	468	34.782	19.137	29.347	0.00	0.00
ATOM	7077	H	PHE	X	468	35.545	18.712	28.840	0.00	0.00
ATOM	7078	CA	PHE	X	468	35.085	19.780	30.637	0.00	0.00
ATOM	7079	HA	PHE	X	468	34.392	19.333	31.349	0.00	0.00
ATOM	7080	CB	PHE	X	468	36.551	19.454	31.051	0.00	0.00
ATOM	7081	HB2	PHE	X	468	36.657	18.370	31.082	0.00	0.00
ATOM	7082	HB3	PHE	X	468	37.223	19.797	30.264	0.00	0.00
ATOM	7083	CG	PHE	X	468	36.953	19.993	32.445	0.00	0.00
ATOM	7084	CD1	PHE	X	468	36.047	20.066	33.570	0.00	0.00
ATOM	7085	HD1	PHE	X	468	34.983	19.887	33.520	0.00	0.00
ATOM	7086	CE1	PHE	X	468	36.541	20.574	34.814	0.00	0.00

ATOM	7087	HE1	PHE	X	468	35.889	20.736	35.659	0.00	0.00
ATOM	7088	CZ	PHE	X	468	37.917	20.991	34.896	0.00	0.00
ATOM	7089	HZ	PHE	X	468	38.254	21.452	35.812	0.00	0.00
ATOM	7090	CE2	PHE	X	468	38.717	20.907	33.768	0.00	0.00
ATOM	7091	HE2	PHE	X	468	39.695	21.315	33.978	0.00	0.00
ATOM	7092	CD2	PHE	X	468	38.335	20.388	32.520	0.00	0.00
ATOM	7093	HD2	PHE	X	468	38.979	20.321	31.656	0.00	0.00
ATOM	7094	C	PHE	X	468	34.758	21.317	30.764	0.00	0.00
ATOM	7095	O	PHE	X	468	34.200	21.707	31.776	0.00	0.00
ATOM	7096	N	ALA	X	469	35.081	22.111	29.743	0.00	0.00
ATOM	7097	H	ALA	X	469	35.589	21.706	28.970	0.00	0.00
ATOM	7098	CA	ALA	X	469	34.688	23.475	29.608	0.00	0.00
ATOM	7099	HA	ALA	X	469	35.045	24.051	30.462	0.00	0.00
ATOM	7100	CB	ALA	X	469	35.426	24.095	28.350	0.00	0.00
ATOM	7101	HB1	ALA	X	469	35.064	25.123	28.309	0.00	0.00
ATOM	7102	HB2	ALA	X	469	35.136	23.532	27.462	0.00	0.00
ATOM	7103	HB3	ALA	X	469	36.485	23.902	28.518	0.00	0.00
ATOM	7104	C	ALA	X	469	33.183	23.631	29.536	0.00	0.00
ATOM	7105	O	ALA	X	469	32.637	24.459	30.224	0.00	0.00
ATOM	7106	N	GLN	X	470	32.456	22.833	28.822	0.00	0.00
ATOM	7107	H	GLN	X	470	32.964	22.277	28.149	0.00	0.00
ATOM	7108	CA	GLN	X	470	31.010	22.889	28.862	0.00	0.00
ATOM	7109	HA	GLN	X	470	30.620	23.862	28.563	0.00	0.00
ATOM	7110	CB	GLN	X	470	30.432	21.897	27.851	0.00	0.00
ATOM	7111	HB2	GLN	X	470	30.955	20.944	27.927	0.00	0.00
ATOM	7112	HB3	GLN	X	470	29.364	21.705	27.956	0.00	0.00
ATOM	7113	CG	GLN	X	470	30.665	22.517	26.419	0.00	0.00
ATOM	7114	HG2	GLN	X	470	30.111	23.437	26.234	0.00	0.00
ATOM	7115	HG3	GLN	X	470	31.693	22.725	26.123	0.00	0.00
ATOM	7116	CD	GLN	X	470	30.311	21.578	25.257	0.00	0.00
ATOM	7117	OE1	GLN	X	470	29.539	21.848	24.423	0.00	0.00
ATOM	7118	NE2	GLN	X	470	30.844	20.416	25.189	0.00	0.00
ATOM	7119	HE21	GLN	X	470	30.692	19.804	24.400	0.00	0.00
ATOM	7120	HE22	GLN	X	470	31.659	20.295	25.774	0.00	0.00
ATOM	7121	C	GLN	X	470	30.329	22.643	30.222	0.00	0.00
ATOM	7122	O	GLN	X	470	29.227	23.172	30.355	0.00	0.00
ATOM	7123	N	ARG	X	471	30.997	21.895	31.111	0.00	0.00
ATOM	7124	H	ARG	X	471	31.864	21.428	30.887	0.00	0.00
ATOM	7125	CA	ARG	X	471	30.653	21.803	32.543	0.00	0.00
ATOM	7126	HA	ARG	X	471	29.627	21.435	32.565	0.00	0.00
ATOM	7127	CB	ARG	X	471	31.399	20.676	33.300	0.00	0.00
ATOM	7128	HB2	ARG	X	471	32.469	20.878	33.339	0.00	0.00
ATOM	7129	HB3	ARG	X	471	31.102	20.798	34.341	0.00	0.00
ATOM	7130	CG	ARG	X	471	31.297	19.265	32.677	0.00	0.00
ATOM	7131	HG2	ARG	X	471	30.286	18.875	32.794	0.00	0.00
ATOM	7132	HG3	ARG	X	471	31.554	19.416	31.628	0.00	0.00
ATOM	7133	CD	ARG	X	471	32.274	18.310	33.281	0.00	0.00
ATOM	7134	HD2	ARG	X	471	32.088	17.295	32.930	0.00	0.00
ATOM	7135	HD3	ARG	X	471	33.290	18.401	32.896	0.00	0.00
ATOM	7136	NE	ARG	X	471	32.230	18.287	34.766	0.00	0.00
ATOM	7137	HE	ARG	X	471	31.444	18.652	35.284	0.00	0.00
ATOM	7138	CZ	ARG	X	471	33.277	17.985	35.541	0.00	0.00
ATOM	7139	NH1	ARG	X	471	34.330	17.370	35.000	0.00	0.00
ATOM	7140	HH11	ARG	X	471	34.459	17.052	34.050	0.00	0.00
ATOM	7141	HH12	ARG	X	471	35.135	17.471	35.601	0.00	0.00
ATOM	7142	NH2	ARG	X	471	33.217	18.322	36.816	0.00	0.00
ATOM	7143	HH21	ARG	X	471	32.333	18.647	37.181	0.00	0.00
ATOM	7144	HH22	ARG	X	471	33.952	18.103	37.473	0.00	0.00
ATOM	7145	C	ARG	X	471	30.772	23.122	33.276	0.00	0.00
ATOM	7146	O	ARG	X	471	29.857	23.572	33.980	0.00	0.00
ATOM	7147	N	LEU	X	472	31.865	23.824	33.105	0.00	0.00
ATOM	7148	H	LEU	X	472	32.501	23.497	32.391	0.00	0.00
ATOM	7149	CA	LEU	X	472	32.105	25.063	33.804	0.00	0.00
ATOM	7150	HA	LEU	X	472	31.872	24.988	34.866	0.00	0.00
ATOM	7151	CB	LEU	X	472	33.604	25.283	33.692	0.00	0.00
ATOM	7152	HB2	LEU	X	472	33.997	25.270	32.675	0.00	0.00
ATOM	7153	HB3	LEU	X	472	33.875	26.203	34.210	0.00	0.00

ATOM	7154	CG	LEU	X	472	34.323	24.164	34.477	0.00	0.00
ATOM	7155	HG	LEU	X	472	34.013	23.144	34.252	0.00	0.00
ATOM	7156	CD1	LEU	X	472	35.837	24.373	34.196	0.00	0.00
ATOM	7157	HD11	LEU	X	472	36.181	25.398	34.059	0.00	0.00
ATOM	7158	HD12	LEU	X	472	36.034	23.813	33.282	0.00	0.00
ATOM	7159	HD13	LEU	X	472	36.364	23.830	34.981	0.00	0.00
ATOM	7160	CD2	LEU	X	472	34.209	24.113	36.041	0.00	0.00
ATOM	7161	HD21	LEU	X	472	34.635	25.041	36.422	0.00	0.00
ATOM	7162	HD22	LEU	X	472	33.161	23.882	36.229	0.00	0.00
ATOM	7163	HD23	LEU	X	472	34.765	23.224	36.338	0.00	0.00
ATOM	7164	C	LEU	X	472	31.278	26.185	33.308	0.00	0.00
ATOM	7165	O	LEU	X	472	30.639	26.874	34.148	0.00	0.00
ATOM	7166	N	MET	X	473	31.239	26.337	31.962	0.00	0.00
ATOM	7167	H	MET	X	473	31.823	25.725	31.410	0.00	0.00
ATOM	7168	CA	MET	X	473	30.258	27.265	31.264	0.00	0.00
ATOM	7169	HA	MET	X	473	30.489	28.329	31.210	0.00	0.00
ATOM	7170	CB	MET	X	473	30.255	26.946	29.809	0.00	0.00
ATOM	7171	HB2	MET	X	473	29.942	25.906	29.715	0.00	0.00
ATOM	7172	HB3	MET	X	473	29.480	27.576	29.371	0.00	0.00
ATOM	7173	CG	MET	X	473	31.606	27.038	29.183	0.00	0.00
ATOM	7174	HG2	MET	X	473	31.863	28.097	29.224	0.00	0.00
ATOM	7175	HG3	MET	X	473	32.406	26.592	29.774	0.00	0.00
ATOM	7176	SD	MET	X	473	31.736	26.355	27.503	0.00	0.00
ATOM	7177	CE	MET	X	473	30.736	27.530	26.604	0.00	0.00
ATOM	7178	HE1	MET	X	473	30.845	27.390	25.528	0.00	0.00
ATOM	7179	HE2	MET	X	473	29.700	27.401	26.919	0.00	0.00
ATOM	7180	HE3	MET	X	473	30.999	28.563	26.828	0.00	0.00
ATOM	7181	C	MET	X	473	28.892	27.166	31.944	0.00	0.00
ATOM	7182	O	MET	X	473	28.382	28.220	32.369	0.00	0.00
ATOM	7183	N	ARG	X	474	28.470	25.898	32.078	0.00	0.00
ATOM	7184	H	ARG	X	474	29.080	25.189	31.698	0.00	0.00
ATOM	7185	CA	ARG	X	474	27.095	25.588	32.604	0.00	0.00
ATOM	7186	HA	ARG	X	474	26.395	26.345	32.252	0.00	0.00
ATOM	7187	CB	ARG	X	474	26.621	24.174	32.251	0.00	0.00
ATOM	7188	HB2	ARG	X	474	26.795	23.956	31.197	0.00	0.00
ATOM	7189	HB3	ARG	X	474	27.230	23.482	32.834	0.00	0.00
ATOM	7190	CG	ARG	X	474	25.099	23.985	32.590	0.00	0.00
ATOM	7191	HG2	ARG	X	474	24.888	22.916	32.545	0.00	0.00
ATOM	7192	HG3	ARG	X	474	24.927	24.325	33.611	0.00	0.00
ATOM	7193	CD	ARG	X	474	24.093	24.740	31.695	0.00	0.00
ATOM	7194	HD2	ARG	X	474	24.157	25.818	31.837	0.00	0.00
ATOM	7195	HD3	ARG	X	474	24.317	24.615	30.636	0.00	0.00
ATOM	7196	NE	ARG	X	474	22.696	24.353	32.037	0.00	0.00
ATOM	7197	HE	ARG	X	474	22.540	23.780	32.853	0.00	0.00
ATOM	7198	CZ	ARG	X	474	21.642	24.808	31.423	0.00	0.00
ATOM	7199	NH1	ARG	X	474	21.714	25.710	30.497	0.00	0.00
ATOM	7200	HH11	ARG	X	474	22.617	26.037	30.186	0.00	0.00
ATOM	7201	HH12	ARG	X	474	20.926	26.282	30.230	0.00	0.00
ATOM	7202	NH2	ARG	X	474	20.443	24.420	31.798	0.00	0.00
ATOM	7203	HH21	ARG	X	474	20.317	23.765	32.557	0.00	0.00
ATOM	7204	HH22	ARG	X	474	19.689	24.674	31.176	0.00	0.00
ATOM	7205	C	ARG	X	474	27.008	25.909	34.057	0.00	0.00
ATOM	7206	O	ARG	X	474	26.117	26.776	34.451	0.00	0.00
ATOM	7207	N	TYR	X	475	27.861	25.336	34.953	0.00	0.00
ATOM	7208	H	TYR	X	475	28.422	24.533	34.705	0.00	0.00
ATOM	7209	CA	TYR	X	475	27.792	25.708	36.428	0.00	0.00
ATOM	7210	HA	TYR	X	475	26.851	25.365	36.857	0.00	0.00
ATOM	7211	CB	TYR	X	475	29.003	25.092	37.178	0.00	0.00
ATOM	7212	HB2	TYR	X	475	29.864	25.665	36.834	0.00	0.00
ATOM	7213	HB3	TYR	X	475	28.869	25.422	38.209	0.00	0.00
ATOM	7214	CG	TYR	X	475	29.232	23.595	37.123	0.00	0.00
ATOM	7215	CD1	TYR	X	475	28.305	22.635	36.782	0.00	0.00
ATOM	7216	HD1	TYR	X	475	27.301	22.995	36.615	0.00	0.00
ATOM	7217	CE1	TYR	X	475	28.658	21.284	36.744	0.00	0.00
ATOM	7218	HE1	TYR	X	475	27.915	20.531	36.530	0.00	0.00
ATOM	7219	CZ	TYR	X	475	29.989	20.886	36.991	0.00	0.00
ATOM	7220	OH	TYR	X	475	30.311	19.586	37.070	0.00	0.00

ATOM	7221	HH	TYR	X	475	29.678	19.042	36.596	0.00	0.00
ATOM	7222	CE2	TYR	X	475	30.980	21.825	37.326	0.00	0.00
ATOM	7223	HE2	TYR	X	475	31.978	21.585	37.662	0.00	0.00
ATOM	7224	CD2	TYR	X	475	30.567	23.184	37.376	0.00	0.00
ATOM	7225	HD2	TYR	X	475	31.227	23.989	37.662	0.00	0.00
ATOM	7226	C	TYR	X	475	27.718	27.230	36.754	0.00	0.00
ATOM	7227	O	TYR	X	475	26.911	27.724	37.526	0.00	0.00
ATOM	7228	N	TRP	X	476	28.547	28.064	36.035	0.00	0.00
ATOM	7229	H	TRP	X	476	29.207	27.568	35.453	0.00	0.00
ATOM	7230	CA	TRP	X	476	28.679	29.527	36.219	0.00	0.00
ATOM	7231	HA	TRP	X	476	28.790	29.802	37.268	0.00	0.00
ATOM	7232	CB	TRP	X	476	29.912	30.154	35.644	0.00	0.00
ATOM	7233	HB2	TRP	X	476	30.270	29.490	34.857	0.00	0.00
ATOM	7234	HB3	TRP	X	476	29.651	31.087	35.144	0.00	0.00
ATOM	7235	CG	TRP	X	476	31.089	30.314	36.491	0.00	0.00
ATOM	7236	CD1	TRP	X	476	31.530	31.530	36.841	0.00	0.00
ATOM	7237	HD1	TRP	X	476	31.162	32.507	36.562	0.00	0.00
ATOM	7238	NE1	TRP	X	476	32.795	31.325	37.457	0.00	0.00
ATOM	7239	HE1	TRP	X	476	33.499	32.016	37.677	0.00	0.00
ATOM	7240	CE2	TRP	X	476	32.989	30.026	37.709	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	34.093	29.496	38.347	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	34.875	30.131	38.738	0.00	0.00
ATOM	7243	CH2	TRP	X	476	34.164	28.125	38.608	0.00	0.00
ATOM	7244	HH2	TRP	X	476	34.934	27.754	39.270	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	33.125	27.362	38.062	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	33.169	26.300	38.252	0.00	0.00
ATOM	7247	CE3	TRP	X	476	32.094	27.882	37.285	0.00	0.00
ATOM	7248	HE3	TRP	X	476	31.412	27.222	36.770	0.00	0.00
ATOM	7249	CD2	TRP	X	476	31.995	29.294	37.114	0.00	0.00
ATOM	7250	C	TRP	X	476	27.443	30.221	35.615	0.00	0.00
ATOM	7251	O	TRP	X	476	27.045	31.227	36.240	0.00	0.00
ATOM	7252	N	ALA	X	477	26.980	29.831	34.431	0.00	0.00
ATOM	7253	H	ALA	X	477	27.454	29.134	33.875	0.00	0.00
ATOM	7254	CA	ALA	X	477	25.836	30.351	33.718	0.00	0.00
ATOM	7255	HA	ALA	X	477	26.040	31.421	33.730	0.00	0.00
ATOM	7256	CB	ALA	X	477	25.541	29.809	32.348	0.00	0.00
ATOM	7257	HB1	ALA	X	477	25.178	28.788	32.462	0.00	0.00
ATOM	7258	HB2	ALA	X	477	26.438	29.906	31.737	0.00	0.00
ATOM	7259	HB3	ALA	X	477	24.835	30.439	31.806	0.00	0.00
ATOM	7260	C	ALA	X	477	24.583	30.120	34.591	0.00	0.00
ATOM	7261	O	ALA	X	477	23.851	31.128	34.814	0.00	0.00
ATOM	7262	N	ASN	X	478	24.247	28.879	35.040	0.00	0.00
ATOM	7263	H	ASN	X	478	24.967	28.188	34.884	0.00	0.00
ATOM	7264	CA	ASN	X	478	23.341	28.415	36.117	0.00	0.00
ATOM	7265	HA	ASN	X	478	22.295	28.484	35.820	0.00	0.00
ATOM	7266	CB	ASN	X	478	23.674	26.937	36.465	0.00	0.00
ATOM	7267	HB2	ASN	X	478	24.736	26.738	36.605	0.00	0.00
ATOM	7268	HB3	ASN	X	478	23.250	26.805	37.460	0.00	0.00
ATOM	7269	CG	ASN	X	478	22.950	25.970	35.505	0.00	0.00
ATOM	7270	OD1	ASN	X	478	22.245	26.382	34.577	0.00	0.00
ATOM	7271	ND2	ASN	X	478	23.251	24.696	35.789	0.00	0.00
ATOM	7272	HD21	ASN	X	478	22.886	24.018	35.136	0.00	0.00
ATOM	7273	HD22	ASN	X	478	23.947	24.430	36.471	0.00	0.00
ATOM	7274	C	ASN	X	478	23.358	29.270	37.402	0.00	0.00
ATOM	7275	O	ASN	X	478	22.306	29.826	37.793	0.00	0.00
ATOM	7276	N	PHE	X	479	24.581	29.520	37.868	0.00	0.00
ATOM	7277	H	PHE	X	479	25.419	29.109	37.482	0.00	0.00
ATOM	7278	CA	PHE	X	479	24.736	30.391	39.033	0.00	0.00
ATOM	7279	HA	PHE	X	479	24.014	30.135	39.809	0.00	0.00
ATOM	7280	CB	PHE	X	479	26.199	30.382	39.542	0.00	0.00
ATOM	7281	HB2	PHE	X	479	26.512	29.378	39.829	0.00	0.00
ATOM	7282	HB3	PHE	X	479	26.854	30.604	38.700	0.00	0.00
ATOM	7283	CG	PHE	X	479	26.382	31.447	40.560	0.00	0.00
ATOM	7284	CD1	PHE	X	479	25.873	31.294	41.814	0.00	0.00
ATOM	7285	HD1	PHE	X	479	25.318	30.390	42.016	0.00	0.00
ATOM	7286	CE1	PHE	X	479	25.982	32.268	42.767	0.00	0.00
ATOM	7287	HE1	PHE	X	479	25.646	32.094	43.779	0.00	0.00

ATOM	7288	CZ	PHE	X	479	26.709	33.408	42.449	0.00	0.00
ATOM	7289	HZ	PHE	X	479	26.936	34.183	43.166	0.00	0.00
ATOM	7290	CE2	PHE	X	479	27.104	33.584	41.143	0.00	0.00
ATOM	7291	HE2	PHE	X	479	27.466	34.586	40.964	0.00	0.00
ATOM	7292	CD2	PHE	X	479	27.075	32.613	40.126	0.00	0.00
ATOM	7293	HD2	PHE	X	479	27.482	32.722	39.132	0.00	0.00
ATOM	7294	C	PHE	X	479	24.321	31.838	38.599	0.00	0.00
ATOM	7295	O	PHE	X	479	23.659	32.503	39.419	0.00	0.00
ATOM	7296	N	ALA	X	480	24.680	32.394	37.441	0.00	0.00
ATOM	7297	H	ALA	X	480	25.429	31.967	36.915	0.00	0.00
ATOM	7298	CA	ALA	X	480	24.093	33.599	37.004	0.00	0.00
ATOM	7299	HA	ALA	X	480	24.346	34.341	37.761	0.00	0.00
ATOM	7300	CB	ALA	X	480	24.994	34.151	35.789	0.00	0.00
ATOM	7301	HB1	ALA	X	480	24.758	35.213	35.734	0.00	0.00
ATOM	7302	HB2	ALA	X	480	24.715	33.589	34.898	0.00	0.00
ATOM	7303	HB3	ALA	X	480	26.070	34.088	35.956	0.00	0.00
ATOM	7304	C	ALA	X	480	22.569	33.573	36.746	0.00	0.00
ATOM	7305	O	ALA	X	480	21.904	34.524	36.943	0.00	0.00
ATOM	7306	N	ARG	X	481	21.959	32.335	36.479	0.00	0.00
ATOM	7307	H	ARG	X	481	22.556	31.539	36.306	0.00	0.00
ATOM	7308	CA	ARG	X	481	20.546	32.199	36.394	0.00	0.00
ATOM	7309	HA	ARG	X	481	20.212	32.985	35.716	0.00	0.00
ATOM	7310	CB	ARG	X	481	20.095	30.897	35.765	0.00	0.00
ATOM	7311	HB2	ARG	X	481	20.684	30.137	36.277	0.00	0.00
ATOM	7312	HB3	ARG	X	481	19.035	30.789	35.996	0.00	0.00
ATOM	7313	CG	ARG	X	481	20.299	30.921	34.198	0.00	0.00
ATOM	7314	HG2	ARG	X	481	19.641	31.671	33.758	0.00	0.00
ATOM	7315	HG3	ARG	X	481	21.372	31.009	34.024	0.00	0.00
ATOM	7316	CD	ARG	X	481	19.901	29.488	33.670	0.00	0.00
ATOM	7317	HD2	ARG	X	481	20.443	28.717	34.216	0.00	0.00
ATOM	7318	HD3	ARG	X	481	18.811	29.491	33.651	0.00	0.00
ATOM	7319	NE	ARG	X	481	20.277	29.430	32.268	0.00	0.00
ATOM	7320	HE	ARG	X	481	19.638	29.825	31.593	0.00	0.00
ATOM	7321	CZ	ARG	X	481	21.438	29.011	31.777	0.00	0.00
ATOM	7322	NH1	ARG	X	481	22.313	28.362	32.462	0.00	0.00
ATOM	7323	HH11	ARG	X	481	21.982	27.832	33.256	0.00	0.00
ATOM	7324	HH12	ARG	X	481	23.024	27.854	31.955	0.00	0.00
ATOM	7325	NH2	ARG	X	481	21.720	29.204	30.513	0.00	0.00
ATOM	7326	HH21	ARG	X	481	21.138	29.786	29.928	0.00	0.00
ATOM	7327	HH22	ARG	X	481	22.533	28.666	30.248	0.00	0.00
ATOM	7328	C	ARG	X	481	19.853	32.506	37.788	0.00	0.00
ATOM	7329	O	ARG	X	481	19.074	33.393	37.892	0.00	0.00
ATOM	7330	N	THR	X	482	20.166	31.656	38.740	0.00	0.00
ATOM	7331	H	THR	X	482	20.835	30.919	38.568	0.00	0.00
ATOM	7332	CA	THR	X	482	19.345	31.427	39.944	0.00	0.00
ATOM	7333	HA	THR	X	482	18.628	32.244	40.024	0.00	0.00
ATOM	7334	CB	THR	X	482	18.614	30.035	39.820	0.00	0.00
ATOM	7335	HB	THR	X	482	18.036	29.858	40.726	0.00	0.00
ATOM	7336	CG2	THR	X	482	17.619	30.278	38.686	0.00	0.00
ATOM	7337	HG21	THR	X	482	18.066	30.065	37.714	0.00	0.00
ATOM	7338	HG22	THR	X	482	17.099	31.228	38.809	0.00	0.00
ATOM	7339	HG23	THR	X	482	16.758	29.616	38.776	0.00	0.00
ATOM	7340	OG1	THR	X	482	19.423	28.874	39.688	0.00	0.00
ATOM	7341	HG1	THR	X	482	18.869	28.249	40.162	0.00	0.00
ATOM	7342	C	THR	X	482	20.152	31.509	41.210	0.00	0.00
ATOM	7343	O	THR	X	482	19.561	31.713	42.308	0.00	0.00
ATOM	7344	N	GLY	X	483	21.453	31.419	41.107	0.00	0.00
ATOM	7345	H	GLY	X	483	21.806	31.158	40.197	0.00	0.00
ATOM	7346	CA	GLY	X	483	22.400	31.667	42.179	0.00	0.00
ATOM	7347	HA2	GLY	X	483	23.296	32.074	41.710	0.00	0.00
ATOM	7348	HA3	GLY	X	483	21.934	32.204	43.006	0.00	0.00
ATOM	7349	C	GLY	X	483	22.859	30.321	42.818	0.00	0.00
ATOM	7350	O	GLY	X	483	23.180	30.320	43.989	0.00	0.00
ATOM	7351	N	ASP	X	484	22.809	29.260	42.036	0.00	0.00
ATOM	7352	H	ASP	X	484	22.365	29.531	41.170	0.00	0.00
ATOM	7353	CA	ASP	X	484	23.151	27.818	42.214	0.00	0.00
ATOM	7354	HA	ASP	X	484	23.820	27.725	43.069	0.00	0.00

ATOM	7355	CB	ASP	X	484	21.845	27.154	42.707	0.00	0.00
ATOM	7356	HB2	ASP	X	484	21.690	27.378	43.762	0.00	0.00
ATOM	7357	HB3	ASP	X	484	20.988	27.527	42.146	0.00	0.00
ATOM	7358	CG	ASP	X	484	21.828	25.642	42.780	0.00	0.00
ATOM	7359	OD1	ASP	X	484	22.944	24.977	42.734	0.00	0.00
ATOM	7360	OD2	ASP	X	484	20.679	25.074	42.760	0.00	0.00
ATOM	7361	C	ASP	X	484	23.748	27.140	40.891	0.00	0.00
ATOM	7362	O	ASP	X	484	23.013	27.293	39.879	0.00	0.00
ATOM	7363	N	PRO	X	485	24.954	26.461	40.893	0.00	0.00
ATOM	7364	CD	PRO	X	485	25.952	26.629	42.009	0.00	0.00
ATOM	7365	HD2	PRO	X	485	25.415	26.406	42.930	0.00	0.00
ATOM	7366	HD3	PRO	X	485	26.282	27.665	42.088	0.00	0.00
ATOM	7367	CG	PRO	X	485	27.073	25.648	41.711	0.00	0.00
ATOM	7368	HG2	PRO	X	485	26.637	24.719	42.078	0.00	0.00
ATOM	7369	HG3	PRO	X	485	27.963	26.012	42.223	0.00	0.00
ATOM	7370	CB	PRO	X	485	27.065	25.601	40.180	0.00	0.00
ATOM	7371	HB2	PRO	X	485	27.444	24.633	39.854	0.00	0.00
ATOM	7372	HB3	PRO	X	485	27.686	26.448	39.887	0.00	0.00
ATOM	7373	CA	PRO	X	485	25.555	25.801	39.731	0.00	0.00
ATOM	7374	HA	PRO	X	485	25.538	26.403	38.823	0.00	0.00
ATOM	7375	C	PRO	X	485	24.877	24.539	39.279	0.00	0.00
ATOM	7376	O	PRO	X	485	25.035	24.024	38.186	0.00	0.00
ATOM	7377	N	ASN	X	486	24.027	24.024	40.129	0.00	0.00
ATOM	7378	H	ASN	X	486	23.952	24.545	40.991	0.00	0.00
ATOM	7379	CA	ASN	X	486	23.174	22.876	39.857	0.00	0.00
ATOM	7380	HA	ASN	X	486	23.657	22.144	39.209	0.00	0.00
ATOM	7381	CB	ASN	X	486	22.797	22.176	41.199	0.00	0.00
ATOM	7382	HB2	ASN	X	486	23.698	22.104	41.808	0.00	0.00
ATOM	7383	HB3	ASN	X	486	22.085	22.848	41.680	0.00	0.00
ATOM	7384	CG	ASN	X	486	22.195	20.781	41.131	0.00	0.00
ATOM	7385	OD1	ASN	X	486	22.057	20.167	40.083	0.00	0.00
ATOM	7386	ND2	ASN	X	486	21.837	20.229	42.313	0.00	0.00
ATOM	7387	HD21	ASN	X	486	21.252	19.411	42.225	0.00	0.00
ATOM	7388	HD22	ASN	X	486	21.861	20.636	43.237	0.00	0.00
ATOM	7389	C	ASN	X	486	21.896	23.281	39.084	0.00	0.00
ATOM	7390	O	ASN	X	486	21.408	24.403	39.165	0.00	0.00
ATOM	7391	N	GLU	X	487	21.360	22.408	38.274	0.00	0.00
ATOM	7392	H	GLU	X	487	21.650	21.441	38.320	0.00	0.00
ATOM	7393	CA	GLU	X	487	20.035	22.672	37.576	0.00	0.00
ATOM	7394	HA	GLU	X	487	20.074	23.557	36.941	0.00	0.00
ATOM	7395	CB	GLU	X	487	19.733	21.465	36.671	0.00	0.00
ATOM	7396	HB2	GLU	X	487	19.624	20.590	37.313	0.00	0.00
ATOM	7397	HB3	GLU	X	487	18.768	21.736	36.243	0.00	0.00
ATOM	7398	CG	GLU	X	487	20.702	21.076	35.526	0.00	0.00
ATOM	7399	HG2	GLU	X	487	21.667	20.839	35.973	0.00	0.00
ATOM	7400	HG3	GLU	X	487	20.384	20.130	35.088	0.00	0.00
ATOM	7401	CD	GLU	X	487	20.901	22.208	34.466	0.00	0.00
ATOM	7402	OE1	GLU	X	487	19.834	22.637	33.910	0.00	0.00
ATOM	7403	OE2	GLU	X	487	22.019	22.663	34.207	0.00	0.00
ATOM	7404	C	GLU	X	487	18.902	22.795	38.566	0.00	0.00
ATOM	7405	O	GLU	X	487	18.952	22.071	39.542	0.00	0.00
ATOM	7406	N	PRO	X	488	17.938	23.771	38.400	0.00	0.00
ATOM	7407	CD	PRO	X	488	17.840	24.597	37.178	0.00	0.00
ATOM	7408	HD2	PRO	X	488	18.081	24.027	36.280	0.00	0.00
ATOM	7409	HD3	PRO	X	488	18.582	25.386	37.301	0.00	0.00
ATOM	7410	CG	PRO	X	488	16.427	25.228	37.222	0.00	0.00
ATOM	7411	HG2	PRO	X	488	15.764	24.686	36.548	0.00	0.00
ATOM	7412	HG3	PRO	X	488	16.382	26.291	36.983	0.00	0.00
ATOM	7413	CB	PRO	X	488	16.017	25.027	38.632	0.00	0.00
ATOM	7414	HB2	PRO	X	488	14.954	24.788	38.670	0.00	0.00
ATOM	7415	HB3	PRO	X	488	16.248	25.925	39.204	0.00	0.00
ATOM	7416	CA	PRO	X	488	16.751	23.822	39.200	0.00	0.00
ATOM	7417	HA	PRO	X	488	17.017	24.039	40.235	0.00	0.00
ATOM	7418	C	PRO	X	488	15.964	22.479	39.162	0.00	0.00
ATOM	7419	O	PRO	X	488	15.176	22.113	40.053	0.00	0.00
ATOM	7420	N	ARG	X	489	16.154	21.608	38.179	0.00	0.00
ATOM	7421	H	ARG	X	489	16.895	21.827	37.529	0.00	0.00

ATOM	7422	CA	ARG	X	489	15.470	20.337	38.042	0.00	0.00
ATOM	7423	HA	ARG	X	489	14.471	20.416	38.472	0.00	0.00
ATOM	7424	CB	ARG	X	489	15.204	19.982	36.521	0.00	0.00
ATOM	7425	HB2	ARG	X	489	14.679	19.028	36.461	0.00	0.00
ATOM	7426	HB3	ARG	X	489	14.663	20.796	36.038	0.00	0.00
ATOM	7427	CG	ARG	X	489	16.490	19.935	35.792	0.00	0.00
ATOM	7428	HG2	ARG	X	489	16.886	20.951	35.770	0.00	0.00
ATOM	7429	HG3	ARG	X	489	17.236	19.272	36.232	0.00	0.00
ATOM	7430	CD	ARG	X	489	16.366	19.368	34.358	0.00	0.00
ATOM	7431	HD2	ARG	X	489	16.001	18.341	34.379	0.00	0.00
ATOM	7432	HD3	ARG	X	489	15.628	19.861	33.725	0.00	0.00
ATOM	7433	NE	ARG	X	489	17.668	19.393	33.735	0.00	0.00
ATOM	7434	HE	ARG	X	489	17.839	20.310	33.347	0.00	0.00
ATOM	7435	CZ	ARG	X	489	18.437	18.344	33.489	0.00	0.00
ATOM	7436	NH1	ARG	X	489	19.448	18.437	32.634	0.00	0.00
ATOM	7437	HH11	ARG	X	489	19.736	19.261	32.124	0.00	0.00
ATOM	7438	HH12	ARG	X	489	20.174	17.737	32.673	0.00	0.00
ATOM	7439	NH2	ARG	X	489	18.170	17.181	33.997	0.00	0.00
ATOM	7440	HH21	ARG	X	489	17.365	17.125	34.603	0.00	0.00
ATOM	7441	HH22	ARG	X	489	18.786	16.386	33.900	0.00	0.00
ATOM	7442	C	ARG	X	489	16.132	19.146	38.815	0.00	0.00
ATOM	7443	O	ARG	X	489	15.687	17.990	38.664	0.00	0.00
ATOM	7444	N	ASP	X	490	17.129	19.478	39.615	0.00	0.00
ATOM	7445	H	ASP	X	490	17.358	20.460	39.675	0.00	0.00
ATOM	7446	CA	ASP	X	490	17.904	18.594	40.453	0.00	0.00
ATOM	7447	HA	ASP	X	490	18.879	19.083	40.459	0.00	0.00
ATOM	7448	CB	ASP	X	490	17.328	18.643	41.890	0.00	0.00
ATOM	7449	HB2	ASP	X	490	16.975	19.613	42.240	0.00	0.00
ATOM	7450	HB3	ASP	X	490	16.422	18.041	41.814	0.00	0.00
ATOM	7451	CG	ASP	X	490	18.373	18.159	42.965	0.00	0.00
ATOM	7452	OD1	ASP	X	490	17.936	17.815	44.047	0.00	0.00
ATOM	7453	OD2	ASP	X	490	19.572	18.481	42.888	0.00	0.00
ATOM	7454	C	ASP	X	490	18.262	17.070	40.060	0.00	0.00
ATOM	7455	O	ASP	X	490	17.666	16.113	40.536	0.00	0.00
ATOM	7456	N	PRO	X	491	19.257	16.908	39.102	0.00	0.00
ATOM	7457	CD	PRO	X	491	20.077	17.923	38.593	0.00	0.00
ATOM	7458	HD2	PRO	X	491	20.957	18.008	39.231	0.00	0.00
ATOM	7459	HD3	PRO	X	491	19.573	18.885	38.501	0.00	0.00
ATOM	7460	CG	PRO	X	491	20.523	17.347	37.259	0.00	0.00
ATOM	7461	HG2	PRO	X	491	21.409	17.786	36.800	0.00	0.00
ATOM	7462	HG3	PRO	X	491	19.790	17.467	36.461	0.00	0.00
ATOM	7463	CB	PRO	X	491	20.648	15.868	37.414	0.00	0.00
ATOM	7464	HB2	PRO	X	491	21.627	15.595	37.808	0.00	0.00
ATOM	7465	HB3	PRO	X	491	20.439	15.237	36.550	0.00	0.00
ATOM	7466	CA	PRO	X	491	19.563	15.590	38.501	0.00	0.00
ATOM	7467	HA	PRO	X	491	18.652	15.205	38.043	0.00	0.00
ATOM	7468	C	PRO	X	491	20.044	14.647	39.547	0.00	0.00
ATOM	7469	O	PRO	X	491	20.610	15.105	40.561	0.00	0.00
ATOM	7470	N	LYS	X	492	19.953	13.259	39.410	0.00	0.00
ATOM	7471	H	LYS	X	492	19.729	12.878	38.502	0.00	0.00
ATOM	7472	CA	LYS	X	492	20.503	12.230	40.325	0.00	0.00
ATOM	7473	HA	LYS	X	492	20.129	12.346	41.342	0.00	0.00
ATOM	7474	CB	LYS	X	492	19.882	10.870	39.885	0.00	0.00
ATOM	7475	HB2	LYS	X	492	20.260	10.088	40.544	0.00	0.00
ATOM	7476	HB3	LYS	X	492	18.808	10.982	40.031	0.00	0.00
ATOM	7477	CG	LYS	X	492	20.128	10.546	38.440	0.00	0.00
ATOM	7478	HG2	LYS	X	492	19.807	11.263	37.683	0.00	0.00
ATOM	7479	HG3	LYS	X	492	21.161	10.385	38.134	0.00	0.00
ATOM	7480	CD	LYS	X	492	19.225	9.255	38.176	0.00	0.00
ATOM	7481	HD2	LYS	X	492	19.682	8.336	38.544	0.00	0.00
ATOM	7482	HD3	LYS	X	492	18.236	9.359	38.623	0.00	0.00
ATOM	7483	CE	LYS	X	492	18.958	8.992	36.668	0.00	0.00
ATOM	7484	HE2	LYS	X	492	19.825	8.850	36.023	0.00	0.00
ATOM	7485	HE3	LYS	X	492	18.370	8.083	36.539	0.00	0.00
ATOM	7486	NZ	LYS	X	492	18.200	10.086	36.087	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	18.030	9.763	35.146	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	17.356	10.281	36.606	0.00	0.00

ATOM	7489	HZ3	LYS	X	492	18.802	10.888	35.971	0.00	0.00
ATOM	7490	C	LYS	X	492	22.029	12.084	40.521	0.00	0.00
ATOM	7491	O	LYS	X	492	22.529	11.476	41.459	0.00	0.00
ATOM	7492	N	ALA	X	493	22.788	12.527	39.503	0.00	0.00
ATOM	7493	H	ALA	X	493	22.255	13.095	38.859	0.00	0.00
ATOM	7494	CA	ALA	X	493	24.262	12.634	39.530	0.00	0.00
ATOM	7495	HA	ALA	X	493	24.546	11.583	39.559	0.00	0.00
ATOM	7496	CB	ALA	X	493	24.797	12.931	38.186	0.00	0.00
ATOM	7497	HB1	ALA	X	493	25.883	12.891	38.265	0.00	0.00
ATOM	7498	HB2	ALA	X	493	24.493	13.931	37.876	0.00	0.00
ATOM	7499	HB3	ALA	X	493	24.454	12.202	37.452	0.00	0.00
ATOM	7500	C	ALA	X	493	24.810	13.472	40.683	0.00	0.00
ATOM	7501	O	ALA	X	493	24.107	14.394	41.012	0.00	0.00
ATOM	7502	N	PRO	X	494	26.066	13.169	41.209	0.00	0.00
ATOM	7503	CD	PRO	X	494	27.167	12.269	40.788	0.00	0.00
ATOM	7504	HD2	PRO	X	494	27.522	12.243	39.758	0.00	0.00
ATOM	7505	HD3	PRO	X	494	26.788	11.278	41.037	0.00	0.00
ATOM	7506	CG	PRO	X	494	28.358	12.658	41.601	0.00	0.00
ATOM	7507	HG2	PRO	X	494	28.909	13.365	40.980	0.00	0.00
ATOM	7508	HG3	PRO	X	494	29.065	11.886	41.903	0.00	0.00
ATOM	7509	CB	PRO	X	494	27.746	13.258	42.899	0.00	0.00
ATOM	7510	HB2	PRO	X	494	28.482	13.897	43.387	0.00	0.00
ATOM	7511	HB3	PRO	X	494	27.442	12.468	43.586	0.00	0.00
ATOM	7512	CA	PRO	X	494	26.564	14.021	42.311	0.00	0.00
ATOM	7513	HA	PRO	X	494	25.756	14.072	43.041	0.00	0.00
ATOM	7514	C	PRO	X	494	26.920	15.485	41.944	0.00	0.00
ATOM	7515	O	PRO	X	494	27.511	15.790	40.875	0.00	0.00
ATOM	7516	N	GLN	X	495	26.404	16.467	42.720	0.00	0.00
ATOM	7517	H	GLN	X	495	26.024	16.095	43.578	0.00	0.00
ATOM	7518	CA	GLN	X	495	26.423	17.939	42.505	0.00	0.00
ATOM	7519	HA	GLN	X	495	26.666	18.181	41.470	0.00	0.00
ATOM	7520	CB	GLN	X	495	24.971	18.401	42.619	0.00	0.00
ATOM	7521	HB2	GLN	X	495	24.531	18.245	43.603	0.00	0.00
ATOM	7522	HB3	GLN	X	495	25.080	19.485	42.587	0.00	0.00
ATOM	7523	CG	GLN	X	495	24.077	17.717	41.622	0.00	0.00
ATOM	7524	HG2	GLN	X	495	24.138	16.648	41.830	0.00	0.00
ATOM	7525	HG3	GLN	X	495	23.015	17.949	41.713	0.00	0.00
ATOM	7526	CD	GLN	X	495	24.384	17.987	40.166	0.00	0.00
ATOM	7527	OE1	GLN	X	495	24.850	19.035	39.781	0.00	0.00
ATOM	7528	NE2	GLN	X	495	24.324	16.970	39.325	0.00	0.00
ATOM	7529	HE21	GLN	X	495	24.583	17.024	38.350	0.00	0.00
ATOM	7530	HE22	GLN	X	495	23.909	16.128	39.698	0.00	0.00
ATOM	7531	C	GLN	X	495	27.331	18.698	43.418	0.00	0.00
ATOM	7532	O	GLN	X	495	27.730	18.240	44.473	0.00	0.00
ATOM	7533	N	TRP	X	496	27.628	19.971	43.045	0.00	0.00
ATOM	7534	H	TRP	X	496	27.338	20.168	42.098	0.00	0.00
ATOM	7535	CA	TRP	X	496	28.487	20.932	43.829	0.00	0.00
ATOM	7536	HA	TRP	X	496	29.380	20.435	44.209	0.00	0.00
ATOM	7537	CB	TRP	X	496	28.914	22.026	42.873	0.00	0.00
ATOM	7538	HB2	TRP	X	496	29.412	21.505	42.055	0.00	0.00
ATOM	7539	HB3	TRP	X	496	27.985	22.490	42.543	0.00	0.00
ATOM	7540	CG	TRP	X	496	29.834	23.257	43.307	0.00	0.00
ATOM	7541	CD1	TRP	X	496	30.333	23.421	44.529	0.00	0.00
ATOM	7542	HD1	TRP	X	496	30.170	22.764	45.371	0.00	0.00
ATOM	7543	NE1	TRP	X	496	31.076	24.636	44.521	0.00	0.00
ATOM	7544	HE1	TRP	X	496	31.530	24.984	45.354	0.00	0.00
ATOM	7545	CE2	TRP	X	496	31.153	25.205	43.246	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	31.866	26.277	42.757	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	32.490	26.796	43.470	0.00	0.00
ATOM	7548	CH2	TRP	X	496	31.950	26.433	41.392	0.00	0.00
ATOM	7549	HH2	TRP	X	496	32.487	27.224	40.889	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	31.255	25.566	40.519	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	31.270	25.736	39.453	0.00	0.00
ATOM	7552	CE3	TRP	X	496	30.592	24.411	40.948	0.00	0.00
ATOM	7553	HE3	TRP	X	496	30.196	23.676	40.264	0.00	0.00
ATOM	7554	CD2	TRP	X	496	30.467	24.253	42.403	0.00	0.00
ATOM	7555	C	TRP	X	496	27.641	21.401	45.037	0.00	0.00

ATOM	7556	O	TRP	X	496	26.587	22.056	44.852	0.00	0.00
ATOM	7557	N	PRO	X	497	28.011	21.166	46.305	0.00	0.00
ATOM	7558	CD	PRO	X	497	29.029	20.272	46.784	0.00	0.00
ATOM	7559	HD2	PRO	X	497	30.006	20.584	46.417	0.00	0.00
ATOM	7560	HD3	PRO	X	497	28.786	19.283	46.394	0.00	0.00
ATOM	7561	CG	PRO	X	497	28.955	20.334	48.261	0.00	0.00
ATOM	7562	HG2	PRO	X	497	29.608	21.136	48.606	0.00	0.00
ATOM	7563	HG3	PRO	X	497	29.177	19.360	48.697	0.00	0.00
ATOM	7564	CB	PRO	X	497	27.540	20.706	48.495	0.00	0.00
ATOM	7565	HB2	PRO	X	497	27.388	21.038	49.522	0.00	0.00
ATOM	7566	HB3	PRO	X	497	27.009	19.770	48.320	0.00	0.00
ATOM	7567	CA	PRO	X	497	27.253	21.700	47.394	0.00	0.00
ATOM	7568	HA	PRO	X	497	26.183	21.696	47.182	0.00	0.00
ATOM	7569	C	PRO	X	497	27.755	23.096	47.719	0.00	0.00
ATOM	7570	O	PRO	X	497	28.853	23.427	47.361	0.00	0.00
ATOM	7571	N	PRO	X	498	26.978	23.835	48.499	0.00	0.00
ATOM	7572	CD	PRO	X	498	25.638	23.599	48.818	0.00	0.00
ATOM	7573	HD2	PRO	X	498	25.485	22.826	49.572	0.00	0.00
ATOM	7574	HD3	PRO	X	498	25.133	23.645	47.853	0.00	0.00
ATOM	7575	CG	PRO	X	498	25.188	24.899	49.543	0.00	0.00
ATOM	7576	HG2	PRO	X	498	25.234	24.645	50.602	0.00	0.00
ATOM	7577	HG3	PRO	X	498	24.181	25.254	49.322	0.00	0.00
ATOM	7578	CB	PRO	X	498	26.215	26.012	49.320	0.00	0.00
ATOM	7579	HB2	PRO	X	498	26.406	26.749	50.101	0.00	0.00
ATOM	7580	HB3	PRO	X	498	25.938	26.470	48.371	0.00	0.00
ATOM	7581	CA	PRO	X	498	27.442	25.137	48.991	0.00	0.00
ATOM	7582	HA	PRO	X	498	28.115	25.563	48.247	0.00	0.00
ATOM	7583	C	PRO	X	498	28.352	25.065	50.246	0.00	0.00
ATOM	7584	O	PRO	X	498	28.247	24.130	51.058	0.00	0.00
ATOM	7585	N	TYR	X	499	29.015	26.154	50.635	0.00	0.00
ATOM	7586	H	TYR	X	499	28.950	26.997	50.083	0.00	0.00
ATOM	7587	CA	TYR	X	499	30.006	26.237	51.646	0.00	0.00
ATOM	7588	HA	TYR	X	499	30.400	25.251	51.894	0.00	0.00
ATOM	7589	CB	TYR	X	499	31.158	27.076	51.048	0.00	0.00
ATOM	7590	HB2	TYR	X	499	31.538	26.745	50.082	0.00	0.00
ATOM	7591	HB3	TYR	X	499	30.765	28.068	50.825	0.00	0.00
ATOM	7592	CG	TYR	X	499	32.427	27.320	51.866	0.00	0.00
ATOM	7593	CD1	TYR	X	499	32.398	28.114	53.080	0.00	0.00
ATOM	7594	HD1	TYR	X	499	31.558	28.697	53.428	0.00	0.00
ATOM	7595	CE1	TYR	X	499	33.702	28.238	53.809	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.816	28.890	54.663	0.00	0.00
ATOM	7597	CZ	TYR	X	499	34.796	27.471	53.428	0.00	0.00
ATOM	7598	OH	TYR	X	499	35.959	27.598	54.085	0.00	0.00
ATOM	7599	HH	TYR	X	499	35.975	28.130	54.884	0.00	0.00
ATOM	7600	CE2	TYR	X	499	34.730	26.714	52.278	0.00	0.00
ATOM	7601	HE2	TYR	X	499	35.575	26.131	51.942	0.00	0.00
ATOM	7602	CD2	TYR	X	499	33.612	26.593	51.481	0.00	0.00
ATOM	7603	HD2	TYR	X	499	33.694	25.922	50.639	0.00	0.00
ATOM	7604	C	TYR	X	499	29.426	26.819	52.925	0.00	0.00
ATOM	7605	O	TYR	X	499	28.661	27.811	52.967	0.00	0.00
ATOM	7606	N	THR	X	500	29.825	26.233	54.054	0.00	0.00
ATOM	7607	H	THR	X	500	30.274	25.329	54.022	0.00	0.00
ATOM	7608	CA	THR	X	500	29.442	26.748	55.407	0.00	0.00
ATOM	7609	HA	THR	X	500	28.746	27.582	55.327	0.00	0.00
ATOM	7610	CB	THR	X	500	28.667	25.661	56.187	0.00	0.00
ATOM	7611	HB	THR	X	500	28.343	26.056	57.150	0.00	0.00
ATOM	7612	CG2	THR	X	500	27.334	25.310	55.468	0.00	0.00
ATOM	7613	HG21	THR	X	500	26.712	24.713	56.135	0.00	0.00
ATOM	7614	HG22	THR	X	500	27.490	24.711	54.571	0.00	0.00
ATOM	7615	HG23	THR	X	500	26.777	26.173	55.105	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.510	24.618	56.372	0.00	0.00
ATOM	7617	HG1	THR	X	500	28.941	24.053	56.900	0.00	0.00
ATOM	7618	C	THR	X	500	30.765	27.164	56.090	0.00	0.00
ATOM	7619	O	THR	X	500	31.834	26.556	55.737	0.00	0.00
ATOM	7620	N	ALA	X	501	30.692	28.017	57.040	0.00	0.00
ATOM	7621	H	ALA	X	501	29.816	28.506	57.157	0.00	0.00
ATOM	7622	CA	ALA	X	501	31.730	28.313	58.018	0.00	0.00

ATOM	7623	HA	ALA	X	501	32.649	28.578	57.494	0.00	0.00
ATOM	7624	CB	ALA	X	501	31.345	29.515	58.934	0.00	0.00
ATOM	7625	HB1	ALA	X	501	30.880	30.292	58.327	0.00	0.00
ATOM	7626	HB2	ALA	X	501	32.243	29.824	59.469	0.00	0.00
ATOM	7627	HB3	ALA	X	501	30.642	29.237	59.719	0.00	0.00
ATOM	7628	C	ALA	X	501	32.174	26.985	58.805	0.00	0.00
ATOM	7629	O	ALA	X	501	33.281	26.983	59.349	0.00	0.00
ATOM	7630	N	GLY	X	502	31.290	25.978	58.902	0.00	0.00
ATOM	7631	H	GLY	X	502	30.423	26.014	58.384	0.00	0.00
ATOM	7632	CA	GLY	X	502	31.427	24.785	59.737	0.00	0.00
ATOM	7633	HA2	GLY	X	502	32.004	24.970	60.643	0.00	0.00
ATOM	7634	HA3	GLY	X	502	30.424	24.507	60.061	0.00	0.00
ATOM	7635	C	GLY	X	502	32.196	23.627	58.983	0.00	0.00
ATOM	7636	O	GLY	X	502	33.378	23.434	59.156	0.00	0.00
ATOM	7637	N	ALA	X	503	31.446	22.845	58.175	0.00	0.00
ATOM	7638	H	ALA	X	503	30.502	23.149	57.984	0.00	0.00
ATOM	7639	CA	ALA	X	503	31.905	21.819	57.266	0.00	0.00
ATOM	7640	HA	ALA	X	503	32.581	21.126	57.768	0.00	0.00
ATOM	7641	CB	ALA	X	503	30.738	20.959	56.710	0.00	0.00
ATOM	7642	HB1	ALA	X	503	30.037	20.621	57.473	0.00	0.00
ATOM	7643	HB2	ALA	X	503	31.192	20.096	56.222	0.00	0.00
ATOM	7644	HB3	ALA	X	503	30.265	21.642	56.005	0.00	0.00
ATOM	7645	C	ALA	X	503	32.834	22.360	56.129	0.00	0.00
ATOM	7646	O	ALA	X	503	33.675	21.627	55.560	0.00	0.00
ATOM	7647	N	GLN	X	504	32.768	23.656	55.738	0.00	0.00
ATOM	7648	H	GLN	X	504	32.137	24.279	56.222	0.00	0.00
ATOM	7649	CA	GLN	X	504	33.656	24.359	54.750	0.00	0.00
ATOM	7650	HA	GLN	X	504	33.129	25.238	54.379	0.00	0.00
ATOM	7651	CB	GLN	X	504	34.970	24.757	55.551	0.00	0.00
ATOM	7652	HB2	GLN	X	504	35.455	23.870	55.956	0.00	0.00
ATOM	7653	HB3	GLN	X	504	35.637	25.228	54.828	0.00	0.00
ATOM	7654	CG	GLN	X	504	34.782	25.779	56.670	0.00	0.00
ATOM	7655	HG2	GLN	X	504	34.557	26.766	56.265	0.00	0.00
ATOM	7656	HG3	GLN	X	504	33.944	25.467	57.294	0.00	0.00
ATOM	7657	CD	GLN	X	504	36.069	25.924	57.492	0.00	0.00
ATOM	7658	OE1	GLN	X	504	37.158	25.737	56.973	0.00	0.00
ATOM	7659	NE2	GLN	X	504	35.943	26.332	58.711	0.00	0.00
ATOM	7660	HE21	GLN	X	504	36.753	26.418	59.308	0.00	0.00
ATOM	7661	HE22	GLN	X	504	35.034	26.538	59.101	0.00	0.00
ATOM	7662	C	GLN	X	504	33.885	23.430	53.516	0.00	0.00
ATOM	7663	O	GLN	X	504	35.039	23.139	53.169	0.00	0.00
ATOM	7664	N	GLN	X	505	32.792	23.003	52.909	0.00	0.00
ATOM	7665	H	GLN	X	505	31.872	23.320	53.177	0.00	0.00
ATOM	7666	CA	GLN	X	505	32.932	22.104	51.823	0.00	0.00
ATOM	7667	HA	GLN	X	505	33.833	21.521	52.015	0.00	0.00
ATOM	7668	CB	GLN	X	505	31.661	21.229	51.757	0.00	0.00
ATOM	7669	HB2	GLN	X	505	30.742	21.811	51.686	0.00	0.00
ATOM	7670	HB3	GLN	X	505	31.716	20.596	50.871	0.00	0.00
ATOM	7671	CG	GLN	X	505	31.338	20.266	52.877	0.00	0.00
ATOM	7672	HG2	GLN	X	505	32.171	19.605	53.116	0.00	0.00
ATOM	7673	HG3	GLN	X	505	31.116	20.753	53.826	0.00	0.00
ATOM	7674	CD	GLN	X	505	30.188	19.376	52.538	0.00	0.00
ATOM	7675	OE1	GLN	X	505	30.291	18.481	51.759	0.00	0.00
ATOM	7676	NE2	GLN	X	505	28.974	19.634	52.880	0.00	0.00
ATOM	7677	HE21	GLN	X	505	28.263	19.072	52.436	0.00	0.00
ATOM	7678	HE22	GLN	X	505	28.688	20.565	53.149	0.00	0.00
ATOM	7679	C	GLN	X	505	33.037	22.837	50.493	0.00	0.00
ATOM	7680	O	GLN	X	505	32.125	23.570	50.119	0.00	0.00
ATOM	7681	N	TYR	X	506	34.111	22.637	49.783	0.00	0.00
ATOM	7682	H	TYR	X	506	34.655	21.863	50.137	0.00	0.00
ATOM	7683	CA	TYR	X	506	34.464	23.153	48.449	0.00	0.00
ATOM	7684	HA	TYR	X	506	33.624	23.763	48.117	0.00	0.00
ATOM	7685	CB	TYR	X	506	35.805	23.906	48.564	0.00	0.00
ATOM	7686	HB2	TYR	X	506	35.973	24.434	47.625	0.00	0.00
ATOM	7687	HB3	TYR	X	506	35.777	24.704	49.306	0.00	0.00
ATOM	7688	CG	TYR	X	506	36.999	23.038	48.963	0.00	0.00
ATOM	7689	CD1	TYR	X	506	37.111	22.615	50.323	0.00	0.00

ATOM	7690	HD1	TYR	X	506	36.314	22.741	51.040	0.00	0.00
ATOM	7691	CE1	TYR	X	506	38.267	21.881	50.735	0.00	0.00
ATOM	7692	HE1	TYR	X	506	38.315	21.536	51.758	0.00	0.00
ATOM	7693	CZ	TYR	X	506	39.347	21.659	49.864	0.00	0.00
ATOM	7694	OH	TYR	X	506	40.452	20.954	50.321	0.00	0.00
ATOM	7695	HH	TYR	X	506	40.283	20.538	51.169	0.00	0.00
ATOM	7696	CE2	TYR	X	506	39.198	22.078	48.520	0.00	0.00
ATOM	7697	HE2	TYR	X	506	40.007	21.828	47.849	0.00	0.00
ATOM	7698	CD2	TYR	X	506	38.029	22.726	48.062	0.00	0.00
ATOM	7699	HD2	TYR	X	506	38.036	23.051	47.032	0.00	0.00
ATOM	7700	C	TYR	X	506	34.701	21.987	47.531	0.00	0.00
ATOM	7701	O	TYR	X	506	34.883	20.868	47.963	0.00	0.00
ATOM	7702	N	VAL	X	507	34.707	22.207	46.202	0.00	0.00
ATOM	7703	H	VAL	X	507	34.463	23.129	45.869	0.00	0.00
ATOM	7704	CA	VAL	X	507	34.889	21.135	45.222	0.00	0.00
ATOM	7705	HA	VAL	X	507	34.833	20.136	45.655	0.00	0.00
ATOM	7706	CB	VAL	X	507	33.728	21.126	44.115	0.00	0.00
ATOM	7707	HB	VAL	X	507	33.989	20.422	43.324	0.00	0.00
ATOM	7708	CG1	VAL	X	507	32.374	20.661	44.725	0.00	0.00
ATOM	7709	HG11	VAL	X	507	32.097	21.480	45.389	0.00	0.00
ATOM	7710	HG12	VAL	X	507	31.688	20.331	43.945	0.00	0.00
ATOM	7711	HG13	VAL	X	507	32.770	19.765	45.204	0.00	0.00
ATOM	7712	CG2	VAL	X	507	33.573	22.448	43.404	0.00	0.00
ATOM	7713	HG21	VAL	X	507	34.557	22.671	42.992	0.00	0.00
ATOM	7714	HG22	VAL	X	507	33.138	23.145	44.121	0.00	0.00
ATOM	7715	HG23	VAL	X	507	32.812	22.192	42.667	0.00	0.00
ATOM	7716	C	VAL	X	507	36.203	21.228	44.503	0.00	0.00
ATOM	7717	O	VAL	X	507	36.755	22.321	44.216	0.00	0.00
ATOM	7718	N	SER	X	508	36.634	20.085	43.996	0.00	0.00
ATOM	7719	H	SER	X	508	36.162	19.239	44.281	0.00	0.00
ATOM	7720	CA	SER	X	508	37.584	19.913	42.913	0.00	0.00
ATOM	7721	HA	SER	X	508	38.287	20.745	42.951	0.00	0.00
ATOM	7722	CB	SER	X	508	38.353	18.646	43.062	0.00	0.00
ATOM	7723	HB2	SER	X	508	38.999	18.742	43.935	0.00	0.00
ATOM	7724	HB3	SER	X	508	37.728	17.760	43.172	0.00	0.00
ATOM	7725	OG	SER	X	508	39.174	18.394	41.958	0.00	0.00
ATOM	7726	HG	SER	X	508	40.105	18.362	42.190	0.00	0.00
ATOM	7727	C	SER	X	508	37.056	20.031	41.535	0.00	0.00
ATOM	7728	O	SER	X	508	36.066	19.402	41.209	0.00	0.00
ATOM	7729	N	LEU	X	509	37.790	20.684	40.576	0.00	0.00
ATOM	7730	H	LEU	X	509	38.622	21.182	40.861	0.00	0.00
ATOM	7731	CA	LEU	X	509	37.458	20.651	39.176	0.00	0.00
ATOM	7732	HA	LEU	X	509	36.564	20.050	39.008	0.00	0.00
ATOM	7733	CB	LEU	X	509	37.039	22.086	38.724	0.00	0.00
ATOM	7734	HB2	LEU	X	509	37.934	22.701	38.813	0.00	0.00
ATOM	7735	HB3	LEU	X	509	36.766	22.115	37.669	0.00	0.00
ATOM	7736	CG	LEU	X	509	35.900	22.770	39.612	0.00	0.00
ATOM	7737	HG	LEU	X	509	36.132	22.689	40.674	0.00	0.00
ATOM	7738	CD1	LEU	X	509	35.821	24.288	39.287	0.00	0.00
ATOM	7739	HD11	LEU	X	509	35.719	24.330	38.202	0.00	0.00
ATOM	7740	HD12	LEU	X	509	36.717	24.745	39.707	0.00	0.00
ATOM	7741	HD13	LEU	X	509	34.871	24.631	39.696	0.00	0.00
ATOM	7742	CD2	LEU	X	509	34.557	22.029	39.293	0.00	0.00
ATOM	7743	HD21	LEU	X	509	34.649	20.977	39.564	0.00	0.00
ATOM	7744	HD22	LEU	X	509	33.723	22.319	39.931	0.00	0.00
ATOM	7745	HD23	LEU	X	509	34.220	22.006	38.257	0.00	0.00
ATOM	7746	C	LEU	X	509	38.530	20.039	38.287	0.00	0.00
ATOM	7747	O	LEU	X	509	39.631	20.510	38.246	0.00	0.00
ATOM	7748	N	ASP	X	510	38.195	18.972	37.606	0.00	0.00
ATOM	7749	H	ASP	X	510	37.230	18.676	37.576	0.00	0.00
ATOM	7750	CA	ASP	X	510	39.152	18.153	36.811	0.00	0.00
ATOM	7751	HA	ASP	X	510	39.981	18.730	36.400	0.00	0.00
ATOM	7752	CB	ASP	X	510	39.810	17.249	37.885	0.00	0.00
ATOM	7753	HB2	ASP	X	510	40.005	17.822	38.792	0.00	0.00
ATOM	7754	HB3	ASP	X	510	39.138	16.445	38.188	0.00	0.00
ATOM	7755	CG	ASP	X	510	41.141	16.579	37.498	0.00	0.00
ATOM	7756	OD1	ASP	X	510	42.051	16.570	38.380	0.00	0.00

ATOM	7757	OD2	ASP	X	510	41.243	15.936	36.421	0.00	0.00
ATOM	7758	C	ASP	X	510	38.345	17.428	35.726	0.00	0.00
ATOM	7759	O	ASP	X	510	37.104	17.399	35.642	0.00	0.00
ATOM	7760	N	LEU	X	511	39.049	16.611	34.942	0.00	0.00
ATOM	7761	H	LEU	X	511	40.038	16.557	35.139	0.00	0.00
ATOM	7762	CA	LEU	X	511	38.429	15.673	33.957	0.00	0.00
ATOM	7763	HA	LEU	X	511	37.743	16.239	33.327	0.00	0.00
ATOM	7764	CB	LEU	X	511	39.511	15.073	33.080	0.00	0.00
ATOM	7765	HB2	LEU	X	511	40.099	14.394	33.697	0.00	0.00
ATOM	7766	HB3	LEU	X	511	38.941	14.441	32.400	0.00	0.00
ATOM	7767	CG	LEU	X	511	40.509	16.018	32.375	0.00	0.00
ATOM	7768	HG	LEU	X	511	41.056	16.593	33.123	0.00	0.00
ATOM	7769	CD1	LEU	X	511	41.558	15.257	31.518	0.00	0.00
ATOM	7770	HD11	LEU	X	511	42.221	16.002	31.077	0.00	0.00
ATOM	7771	HD12	LEU	X	511	41.088	14.635	30.756	0.00	0.00
ATOM	7772	HD13	LEU	X	511	42.128	14.533	32.100	0.00	0.00
ATOM	7773	CD2	LEU	X	511	39.772	17.050	31.504	0.00	0.00
ATOM	7774	HD21	LEU	X	511	39.080	17.651	32.095	0.00	0.00
ATOM	7775	HD22	LEU	X	511	40.599	17.691	31.198	0.00	0.00
ATOM	7776	HD23	LEU	X	511	39.427	16.525	30.613	0.00	0.00
ATOM	7777	C	LEU	X	511	37.513	14.550	34.582	0.00	0.00
ATOM	7778	O	LEU	X	511	36.398	14.238	34.091	0.00	0.00
ATOM	7779	N	ARG	X	512	37.843	14.086	35.804	0.00	0.00
ATOM	7780	H	ARG	X	512	38.645	14.525	36.235	0.00	0.00
ATOM	7781	CA	ARG	X	512	36.935	13.257	36.610	0.00	0.00
ATOM	7782	HA	ARG	X	512	36.670	12.393	36.000	0.00	0.00
ATOM	7783	CB	ARG	X	512	37.686	12.692	37.826	0.00	0.00
ATOM	7784	HB2	ARG	X	512	38.111	13.496	38.427	0.00	0.00
ATOM	7785	HB3	ARG	X	512	37.015	12.148	38.491	0.00	0.00
ATOM	7786	CG	ARG	X	512	38.917	11.791	37.517	0.00	0.00
ATOM	7787	HG2	ARG	X	512	38.511	11.021	36.861	0.00	0.00
ATOM	7788	HG3	ARG	X	512	39.641	12.222	36.825	0.00	0.00
ATOM	7789	CD	ARG	X	512	39.439	11.216	38.841	0.00	0.00
ATOM	7790	HD2	ARG	X	512	39.951	12.019	39.371	0.00	0.00
ATOM	7791	HD3	ARG	X	512	38.597	11.065	39.516	0.00	0.00
ATOM	7792	NE	ARG	X	512	40.274	10.089	38.535	0.00	0.00
ATOM	7793	HE	ARG	X	512	39.987	9.266	38.025	0.00	0.00
ATOM	7794	CZ	ARG	X	512	41.615	10.122	38.565	0.00	0.00
ATOM	7795	NH1	ARG	X	512	42.343	11.130	39.006	0.00	0.00
ATOM	7796	HH11	ARG	X	512	41.863	11.950	39.347	0.00	0.00
ATOM	7797	HH12	ARG	X	512	43.345	11.155	38.880	0.00	0.00
ATOM	7798	NH2	ARG	X	512	42.209	9.066	38.107	0.00	0.00
ATOM	7799	HH21	ARG	X	512	41.753	8.203	37.850	0.00	0.00
ATOM	7800	HH22	ARG	X	512	43.211	9.159	38.020	0.00	0.00
ATOM	7801	C	ARG	X	512	35.725	14.065	37.095	0.00	0.00
ATOM	7802	O	ARG	X	512	35.748	15.325	37.133	0.00	0.00
ATOM	7803	N	PRO	X	513	34.623	13.366	37.442	0.00	0.00
ATOM	7804	CD	PRO	X	513	34.411	11.910	37.327	0.00	0.00
ATOM	7805	HD2	PRO	X	513	35.286	11.472	37.807	0.00	0.00
ATOM	7806	HD3	PRO	X	513	34.381	11.545	36.301	0.00	0.00
ATOM	7807	CG	PRO	X	513	33.092	11.550	38.099	0.00	0.00
ATOM	7808	HG2	PRO	X	513	33.346	11.366	39.142	0.00	0.00
ATOM	7809	HG3	PRO	X	513	32.555	10.721	37.639	0.00	0.00
ATOM	7810	CB	PRO	X	513	32.281	12.906	38.057	0.00	0.00
ATOM	7811	HB2	PRO	X	513	31.616	12.951	38.919	0.00	0.00
ATOM	7812	HB3	PRO	X	513	31.764	13.002	37.103	0.00	0.00
ATOM	7813	CA	PRO	X	513	33.386	13.947	38.068	0.00	0.00
ATOM	7814	HA	PRO	X	513	33.002	14.735	37.419	0.00	0.00
ATOM	7815	C	PRO	X	513	33.701	14.546	39.401	0.00	0.00
ATOM	7816	O	PRO	X	513	34.669	14.110	40.006	0.00	0.00
ATOM	7817	N	LEU	X	514	32.826	15.410	39.942	0.00	0.00
ATOM	7818	H	LEU	X	514	32.057	15.564	39.305	0.00	0.00
ATOM	7819	CA	LEU	X	514	33.118	16.169	41.142	0.00	0.00
ATOM	7820	HA	LEU	X	514	33.888	16.870	40.819	0.00	0.00
ATOM	7821	CB	LEU	X	514	31.890	17.031	41.539	0.00	0.00
ATOM	7822	HB2	LEU	X	514	31.030	16.372	41.659	0.00	0.00
ATOM	7823	HB3	LEU	X	514	32.120	17.415	42.533	0.00	0.00

ATOM	7824	CG	LEU	X	514	31.458	18.190	40.533	0.00	0.00
ATOM	7825	HG	LEU	X	514	31.541	17.862	39.496	0.00	0.00
ATOM	7826	CD1	LEU	X	514	30.077	18.696	40.981	0.00	0.00
ATOM	7827	HD11	LEU	X	514	29.336	17.934	40.738	0.00	0.00
ATOM	7828	HD12	LEU	X	514	29.906	19.656	40.495	0.00	0.00
ATOM	7829	HD13	LEU	X	514	30.140	18.851	42.059	0.00	0.00
ATOM	7830	CD2	LEU	X	514	32.391	19.330	40.587	0.00	0.00
ATOM	7831	HD21	LEU	X	514	33.430	19.012	40.678	0.00	0.00
ATOM	7832	HD22	LEU	X	514	32.276	19.817	39.618	0.00	0.00
ATOM	7833	HD23	LEU	X	514	32.139	19.982	41.423	0.00	0.00
ATOM	7834	C	LEU	X	514	33.410	15.401	42.451	0.00	0.00
ATOM	7835	O	LEU	X	514	32.582	14.558	42.881	0.00	0.00
ATOM	7836	N	GLU	X	515	34.659	15.497	43.075	0.00	0.00
ATOM	7837	H	GLU	X	515	35.333	16.107	42.635	0.00	0.00
ATOM	7838	CA	GLU	X	515	35.014	15.112	44.402	0.00	0.00
ATOM	7839	HA	GLU	X	515	34.516	14.214	44.770	0.00	0.00
ATOM	7840	CB	GLU	X	515	36.531	14.814	44.427	0.00	0.00
ATOM	7841	HB2	GLU	X	515	36.740	13.927	43.830	0.00	0.00
ATOM	7842	HB3	GLU	X	515	37.038	15.650	43.946	0.00	0.00
ATOM	7843	CG	GLU	X	515	37.117	14.442	45.809	0.00	0.00
ATOM	7844	HG2	GLU	X	515	36.683	15.086	46.574	0.00	0.00
ATOM	7845	HG3	GLU	X	515	36.822	13.429	46.082	0.00	0.00
ATOM	7846	CD	GLU	X	515	38.648	14.633	45.754	0.00	0.00
ATOM	7847	OE1	GLU	X	515	39.261	14.876	44.673	0.00	0.00
ATOM	7848	OE2	GLU	X	515	39.248	14.640	46.795	0.00	0.00
ATOM	7849	C	GLU	X	515	34.592	16.396	45.188	0.00	0.00
ATOM	7850	O	GLU	X	515	35.175	17.466	44.827	0.00	0.00
ATOM	7851	N	VAL	X	516	33.767	16.279	46.239	0.00	0.00
ATOM	7852	H	VAL	X	516	33.497	15.329	46.452	0.00	0.00
ATOM	7853	CA	VAL	X	516	33.692	17.277	47.282	0.00	0.00
ATOM	7854	HA	VAL	X	516	33.807	18.307	46.944	0.00	0.00
ATOM	7855	CB	VAL	X	516	32.303	17.391	47.907	0.00	0.00
ATOM	7856	HB	VAL	X	516	32.238	16.529	48.571	0.00	0.00
ATOM	7857	CG1	VAL	X	516	32.008	18.653	48.734	0.00	0.00
ATOM	7858	HG11	VAL	X	516	32.756	18.816	49.510	0.00	0.00
ATOM	7859	HG12	VAL	X	516	31.932	19.538	48.102	0.00	0.00
ATOM	7860	HG13	VAL	X	516	31.059	18.467	49.238	0.00	0.00
ATOM	7861	CG2	VAL	X	516	31.224	17.329	46.868	0.00	0.00
ATOM	7862	HG21	VAL	X	516	31.390	18.084	46.100	0.00	0.00
ATOM	7863	HG22	VAL	X	516	30.233	17.387	47.320	0.00	0.00
ATOM	7864	HG23	VAL	X	516	31.302	16.346	46.405	0.00	0.00
ATOM	7865	C	VAL	X	516	34.791	17.069	48.381	0.00	0.00
ATOM	7866	O	VAL	X	516	35.165	15.909	48.782	0.00	0.00
ATOM	7867	N	ARG	X	517	35.295	18.173	48.908	0.00	0.00
ATOM	7868	H	ARG	X	517	34.972	19.050	48.526	0.00	0.00
ATOM	7869	CA	ARG	X	517	36.359	18.160	49.924	0.00	0.00
ATOM	7870	HA	ARG	X	517	36.557	17.138	50.248	0.00	0.00
ATOM	7871	CB	ARG	X	517	37.618	18.588	49.258	0.00	0.00
ATOM	7872	HB2	ARG	X	517	37.545	19.530	48.715	0.00	0.00
ATOM	7873	HB3	ARG	X	517	38.333	18.713	50.071	0.00	0.00
ATOM	7874	CG	ARG	X	517	38.314	17.603	48.334	0.00	0.00
ATOM	7875	HG2	ARG	X	517	38.405	16.655	48.865	0.00	0.00
ATOM	7876	HG3	ARG	X	517	37.810	17.433	47.383	0.00	0.00
ATOM	7877	CD	ARG	X	517	39.793	18.128	47.986	0.00	0.00
ATOM	7878	HD2	ARG	X	517	39.670	19.043	47.407	0.00	0.00
ATOM	7879	HD3	ARG	X	517	40.458	18.256	48.840	0.00	0.00
ATOM	7880	NE	ARG	X	517	40.447	17.229	47.014	0.00	0.00
ATOM	7881	HE	ARG	X	517	40.460	16.247	47.247	0.00	0.00
ATOM	7882	CZ	ARG	X	517	41.024	17.582	45.917	0.00	0.00
ATOM	7883	NH1	ARG	X	517	41.504	18.835	45.683	0.00	0.00
ATOM	7884	HH11	ARG	X	517	41.745	19.421	46.470	0.00	0.00
ATOM	7885	HH12	ARG	X	517	41.936	19.013	44.788	0.00	0.00
ATOM	7886	NH2	ARG	X	517	41.121	16.700	44.920	0.00	0.00
ATOM	7887	HH21	ARG	X	517	40.488	15.913	44.923	0.00	0.00
ATOM	7888	HH22	ARG	X	517	41.584	17.040	44.089	0.00	0.00
ATOM	7889	C	ARG	X	517	36.100	19.126	51.096	0.00	0.00
ATOM	7890	O	ARG	X	517	35.332	20.092	50.884	0.00	0.00

ATOM	7891	N	ARG	X	518	36.663	18.907	52.281	0.00	0.00
ATOM	7892	H	ARG	X	518	37.251	18.086	52.239	0.00	0.00
ATOM	7893	CA	ARG	X	518	36.275	19.497	53.592	0.00	0.00
ATOM	7894	HA	ARG	X	518	35.391	20.101	53.386	0.00	0.00
ATOM	7895	CB	ARG	X	518	36.053	18.332	54.496	0.00	0.00
ATOM	7896	HB2	ARG	X	518	35.452	17.589	53.972	0.00	0.00
ATOM	7897	HB3	ARG	X	518	36.968	17.833	54.816	0.00	0.00
ATOM	7898	CG	ARG	X	518	35.154	18.710	55.654	0.00	0.00
ATOM	7899	HG2	ARG	X	518	35.465	19.689	56.021	0.00	0.00
ATOM	7900	HG3	ARG	X	518	34.110	18.839	55.368	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.182	17.743	56.904	0.00	0.00
ATOM	7902	HD2	ARG	X	518	34.934	16.733	56.576	0.00	0.00
ATOM	7903	HD3	ARG	X	518	36.209	17.567	57.224	0.00	0.00
ATOM	7904	NE	ARG	X	518	34.315	18.213	58.049	0.00	0.00
ATOM	7905	HE	ARG	X	518	34.808	18.852	58.656	0.00	0.00
ATOM	7906	CZ	ARG	X	518	33.036	18.057	58.301	0.00	0.00
ATOM	7907	NH1	ARG	X	518	32.223	17.629	57.377	0.00	0.00
ATOM	7908	HH11	ARG	X	518	32.666	17.121	56.626	0.00	0.00
ATOM	7909	HH12	ARG	X	518	31.254	17.474	57.618	0.00	0.00
ATOM	7910	NH2	ARG	X	518	32.550	18.356	59.492	0.00	0.00
ATOM	7911	HH21	ARG	X	518	33.141	18.750	60.210	0.00	0.00
ATOM	7912	HH22	ARG	X	518	31.587	18.076	59.611	0.00	0.00
ATOM	7913	C	ARG	X	518	37.293	20.443	54.239	0.00	0.00
ATOM	7914	O	ARG	X	518	38.433	20.069	54.153	0.00	0.00
ATOM	7915	N	GLY	X	519	36.888	21.564	54.927	0.00	0.00
ATOM	7916	H	GLY	X	519	35.915	21.835	54.919	0.00	0.00
ATOM	7917	CA	GLY	X	519	37.730	22.222	55.916	0.00	0.00
ATOM	7918	HA2	GLY	X	519	37.166	22.873	56.584	0.00	0.00
ATOM	7919	HA3	GLY	X	519	38.289	21.427	56.410	0.00	0.00
ATOM	7920	C	GLY	X	519	38.763	23.131	55.305	0.00	0.00
ATOM	7921	O	GLY	X	519	39.893	23.230	55.854	0.00	0.00
ATOM	7922	N	LEU	X	520	38.452	23.911	54.220	0.00	0.00
ATOM	7923	H	LEU	X	520	37.470	23.812	54.007	0.00	0.00
ATOM	7924	CA	LEU	X	520	39.353	24.596	53.318	0.00	0.00
ATOM	7925	HA	LEU	X	520	39.902	23.917	52.665	0.00	0.00
ATOM	7926	CB	LEU	X	520	38.492	25.539	52.384	0.00	0.00
ATOM	7927	HB2	LEU	X	520	37.890	24.828	51.817	0.00	0.00
ATOM	7928	HB3	LEU	X	520	37.795	26.164	52.941	0.00	0.00
ATOM	7929	CG	LEU	X	520	39.194	26.591	51.500	0.00	0.00
ATOM	7930	HG	LEU	X	520	39.817	27.157	52.193	0.00	0.00
ATOM	7931	CD1	LEU	X	520	39.981	25.885	50.389	0.00	0.00
ATOM	7932	HD11	LEU	X	520	40.486	26.679	49.839	0.00	0.00
ATOM	7933	HD12	LEU	X	520	39.347	25.233	49.788	0.00	0.00
ATOM	7934	HD13	LEU	X	520	40.782	25.278	50.812	0.00	0.00
ATOM	7935	CD2	LEU	X	520	38.367	27.734	50.965	0.00	0.00
ATOM	7936	HD21	LEU	X	520	37.985	28.321	51.800	0.00	0.00
ATOM	7937	HD22	LEU	X	520	39.021	28.356	50.354	0.00	0.00
ATOM	7938	HD23	LEU	X	520	37.568	27.469	50.272	0.00	0.00
ATOM	7939	C	LEU	X	520	40.461	25.427	54.036	0.00	0.00
ATOM	7940	O	LEU	X	520	40.117	26.472	54.647	0.00	0.00
ATOM	7941	N	ARG	X	521	41.748	25.057	53.928	0.00	0.00
ATOM	7942	H	ARG	X	521	41.815	24.178	53.436	0.00	0.00
ATOM	7943	CA	ARG	X	521	42.988	25.751	54.334	0.00	0.00
ATOM	7944	HA	ARG	X	521	43.704	24.940	54.204	0.00	0.00
ATOM	7945	CB	ARG	X	521	43.267	26.888	53.380	0.00	0.00
ATOM	7946	HB2	ARG	X	521	42.844	26.749	52.385	0.00	0.00
ATOM	7947	HB3	ARG	X	521	42.722	27.800	53.626	0.00	0.00
ATOM	7948	CG	ARG	X	521	44.718	27.302	53.323	0.00	0.00
ATOM	7949	HG2	ARG	X	521	44.898	28.189	52.717	0.00	0.00
ATOM	7950	HG3	ARG	X	521	45.162	27.468	54.305	0.00	0.00
ATOM	7951	CD	ARG	X	521	45.489	26.085	52.689	0.00	0.00
ATOM	7952	HD2	ARG	X	521	45.480	25.242	53.381	0.00	0.00
ATOM	7953	HD3	ARG	X	521	44.882	25.868	51.810	0.00	0.00
ATOM	7954	NE	ARG	X	521	46.890	26.384	52.385	0.00	0.00
ATOM	7955	HE	ARG	X	521	47.181	27.346	52.288	0.00	0.00
ATOM	7956	CZ	ARG	X	521	47.874	25.554	52.212	0.00	0.00
ATOM	7957	NH1	ARG	X	521	47.721	24.250	52.123	0.00	0.00

ATOM	7958	HH11	ARG	X	521	46.772	23.903	52.143	0.00	0.00
ATOM	7959	HH12	ARG	X	521	48.447	23.578	51.922	0.00	0.00
ATOM	7960	NH2	ARG	X	521	49.131	25.973	52.136	0.00	0.00
ATOM	7961	HH21	ARG	X	521	49.304	26.961	52.256	0.00	0.00
ATOM	7962	HH22	ARG	X	521	49.885	25.459	51.703	0.00	0.00
ATOM	7963	C	ARG	X	521	43.070	26.078	55.890	0.00	0.00
ATOM	7964	O	ARG	X	521	43.809	26.937	56.327	0.00	0.00
ATOM	7965	N	ALA	X	522	42.175	25.420	56.688	0.00	0.00
ATOM	7966	H	ALA	X	522	41.564	24.741	56.258	0.00	0.00
ATOM	7967	CA	ALA	X	522	41.686	25.782	57.993	0.00	0.00
ATOM	7968	HA	ALA	X	522	41.223	26.768	57.972	0.00	0.00
ATOM	7969	CB	ALA	X	522	40.527	24.816	58.388	0.00	0.00
ATOM	7970	HB1	ALA	X	522	40.938	23.807	58.362	0.00	0.00
ATOM	7971	HB2	ALA	X	522	39.618	24.846	57.787	0.00	0.00
ATOM	7972	HB3	ALA	X	522	40.335	25.047	59.436	0.00	0.00
ATOM	7973	C	ALA	X	522	42.803	25.734	59.074	0.00	0.00
ATOM	7974	O	ALA	X	522	43.000	26.758	59.714	0.00	0.00
ATOM	7975	N	GLN	X	523	43.558	24.627	59.177	0.00	0.00
ATOM	7976	H	GLN	X	523	43.352	23.841	58.576	0.00	0.00
ATOM	7977	CA	GLN	X	523	44.794	24.567	59.973	0.00	0.00
ATOM	7978	HA	GLN	X	523	44.653	25.014	60.957	0.00	0.00
ATOM	7979	CB	GLN	X	523	45.475	23.273	60.135	0.00	0.00
ATOM	7980	HB2	GLN	X	523	45.996	22.854	59.274	0.00	0.00
ATOM	7981	HB3	GLN	X	523	46.246	23.382	60.897	0.00	0.00
ATOM	7982	CG	GLN	X	523	44.590	22.193	60.674	0.00	0.00
ATOM	7983	HG2	GLN	X	523	45.162	21.511	61.304	0.00	0.00
ATOM	7984	HG3	GLN	X	523	43.769	22.564	61.289	0.00	0.00
ATOM	7985	CD	GLN	X	523	43.945	21.502	59.496	0.00	0.00
ATOM	7986	OE1	GLN	X	523	42.995	21.975	58.957	0.00	0.00
ATOM	7987	NE2	GLN	X	523	44.522	20.498	58.883	0.00	0.00
ATOM	7988	HE21	GLN	X	523	44.128	20.141	58.024	0.00	0.00
ATOM	7989	HE22	GLN	X	523	45.267	20.062	59.406	0.00	0.00
ATOM	7990	C	GLN	X	523	45.830	25.490	59.405	0.00	0.00
ATOM	7991	O	GLN	X	523	46.363	26.298	60.169	0.00	0.00
ATOM	7992	N	ALA	X	524	46.099	25.445	58.035	0.00	0.00
ATOM	7993	H	ALA	X	524	45.575	24.791	57.471	0.00	0.00
ATOM	7994	CA	ALA	X	524	47.176	26.138	57.385	0.00	0.00
ATOM	7995	HA	ALA	X	524	48.030	25.691	57.894	0.00	0.00
ATOM	7996	CB	ALA	X	524	47.324	25.732	55.874	0.00	0.00
ATOM	7997	HB1	ALA	X	524	46.987	26.509	55.188	0.00	0.00
ATOM	7998	HB2	ALA	X	524	46.867	24.772	55.635	0.00	0.00
ATOM	7999	HB3	ALA	X	524	48.396	25.714	55.679	0.00	0.00
ATOM	8000	C	ALA	X	524	47.233	27.677	57.687	0.00	0.00
ATOM	8001	O	ALA	X	524	48.304	28.060	58.100	0.00	0.00
ATOM	8002	N	CYX	X	525	46.089	28.334	57.783	0.00	0.00
ATOM	8003	H	CYX	X	525	45.283	27.868	57.392	0.00	0.00
ATOM	8004	CA	CYX	X	525	46.073	29.772	58.106	0.00	0.00
ATOM	8005	HA	CYX	X	525	46.981	30.263	57.757	0.00	0.00
ATOM	8006	CB	CYX	X	525	44.762	30.358	57.552	0.00	0.00
ATOM	8007	HB2	CYX	X	525	43.957	29.774	57.998	0.00	0.00
ATOM	8008	HB3	CYX	X	525	44.641	31.407	57.826	0.00	0.00
ATOM	8009	SG	CYX	X	525	44.603	30.128	55.716	0.00	0.00
ATOM	8010	C	CYX	X	525	46.174	30.117	59.601	0.00	0.00
ATOM	8011	O	CYX	X	525	46.515	31.234	59.900	0.00	0.00
ATOM	8012	N	ALA	X	526	46.015	29.163	60.527	0.00	0.00
ATOM	8013	H	ALA	X	526	45.862	28.238	60.151	0.00	0.00
ATOM	8014	CA	ALA	X	526	46.156	29.317	62.015	0.00	0.00
ATOM	8015	HA	ALA	X	526	45.542	30.106	62.448	0.00	0.00
ATOM	8016	CB	ALA	X	526	46.006	27.923	62.677	0.00	0.00
ATOM	8017	HB1	ALA	X	526	46.820	27.237	62.443	0.00	0.00
ATOM	8018	HB2	ALA	X	526	45.059	27.458	62.400	0.00	0.00
ATOM	8019	HB3	ALA	X	526	45.980	28.085	63.754	0.00	0.00
ATOM	8020	C	ALA	X	526	47.640	29.863	62.250	0.00	0.00
ATOM	8021	O	ALA	X	526	47.805	30.662	63.188	0.00	0.00
ATOM	8022	N	PHE	X	527	48.602	29.473	61.394	0.00	0.00
ATOM	8023	H	PHE	X	527	48.327	28.849	60.649	0.00	0.00
ATOM	8024	CA	PHE	X	527	49.956	30.073	61.395	0.00	0.00

ATOM	8025	HA	PHE	X	527	50.364	30.054	62.406	0.00	0.00
ATOM	8026	CB	PHE	X	527	50.785	29.167	60.464	0.00	0.00
ATOM	8027	HB2	PHE	X	527	50.722	28.157	60.868	0.00	0.00
ATOM	8028	HB3	PHE	X	527	50.435	29.204	59.433	0.00	0.00
ATOM	8029	CG	PHE	X	527	52.245	29.677	60.326	0.00	0.00
ATOM	8030	CD1	PHE	X	527	53.162	29.648	61.462	0.00	0.00
ATOM	8031	HD1	PHE	X	527	52.840	29.265	62.419	0.00	0.00
ATOM	8032	CE1	PHE	X	527	54.495	30.025	61.299	0.00	0.00
ATOM	8033	HE1	PHE	X	527	55.276	29.930	62.038	0.00	0.00
ATOM	8034	CZ	PHE	X	527	54.931	30.532	60.035	0.00	0.00
ATOM	8035	HZ	PHE	X	527	55.956	30.854	59.927	0.00	0.00
ATOM	8036	CE2	PHE	X	527	54.067	30.683	58.929	0.00	0.00
ATOM	8037	HE2	PHE	X	527	54.487	31.041	58.001	0.00	0.00
ATOM	8038	CD2	PHE	X	527	52.741	30.220	59.093	0.00	0.00
ATOM	8039	HD2	PHE	X	527	52.124	30.322	58.213	0.00	0.00
ATOM	8040	C	PHE	X	527	49.911	31.524	60.969	0.00	0.00
ATOM	8041	O	PHE	X	527	50.292	32.472	61.669	0.00	0.00
ATOM	8042	N	TRP	X	528	49.313	31.712	59.764	0.00	0.00
ATOM	8043	H	TRP	X	528	48.911	30.897	59.325	0.00	0.00
ATOM	8044	CA	TRP	X	528	49.209	32.970	59.027	0.00	0.00
ATOM	8045	HA	TRP	X	528	50.191	33.427	59.149	0.00	0.00
ATOM	8046	CB	TRP	X	528	48.974	32.728	57.510	0.00	0.00
ATOM	8047	HB2	TRP	X	528	47.969	32.310	57.452	0.00	0.00
ATOM	8048	HB3	TRP	X	528	48.971	33.687	56.992	0.00	0.00
ATOM	8049	CG	TRP	X	528	49.962	31.880	56.788	0.00	0.00
ATOM	8050	CD1	TRP	X	528	49.739	30.668	56.305	0.00	0.00
ATOM	8051	HD1	TRP	X	528	48.791	30.161	56.400	0.00	0.00
ATOM	8052	NE1	TRP	X	528	50.847	30.173	55.680	0.00	0.00
ATOM	8053	HE1	TRP	X	528	50.807	29.258	55.255	0.00	0.00
ATOM	8054	CE2	TRP	X	528	51.920	31.067	55.760	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	53.223	31.089	55.318	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	53.659	30.326	54.690	0.00	0.00
ATOM	8057	CH2	TRP	X	528	54.008	32.225	55.629	0.00	0.00
ATOM	8058	HH2	TRP	X	528	55.051	32.224	55.349	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	53.482	33.327	56.343	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	54.090	34.185	56.591	0.00	0.00
ATOM	8061	CE3	TRP	X	528	52.201	33.240	56.828	0.00	0.00
ATOM	8062	HE3	TRP	X	528	51.854	34.085	57.404	0.00	0.00
ATOM	8063	CD2	TRP	X	528	51.384	32.151	56.543	0.00	0.00
ATOM	8064	C	TRP	X	528	48.287	34.072	59.552	0.00	0.00
ATOM	8065	O	TRP	X	528	48.209	35.127	58.917	0.00	0.00
ATOM	8066	N	ASN	X	529	47.626	33.866	60.728	0.00	0.00
ATOM	8067	H	ASN	X	529	47.612	32.935	61.121	0.00	0.00
ATOM	8068	CA	ASN	X	529	46.767	34.848	61.407	0.00	0.00
ATOM	8069	HA	ASN	X	529	46.757	35.858	60.996	0.00	0.00
ATOM	8070	CB	ASN	X	529	45.374	34.265	61.222	0.00	0.00
ATOM	8071	HB2	ASN	X	529	45.363	33.202	61.463	0.00	0.00
ATOM	8072	HB3	ASN	X	529	44.673	34.614	61.981	0.00	0.00
ATOM	8073	CG	ASN	X	529	44.850	34.470	59.824	0.00	0.00
ATOM	8074	OD1	ASN	X	529	45.126	35.430	59.203	0.00	0.00
ATOM	8075	ND2	ASN	X	529	44.304	33.452	59.088	0.00	0.00
ATOM	8076	HD21	ASN	X	529	44.046	33.537	58.115	0.00	0.00
ATOM	8077	HD22	ASN	X	529	44.408	32.525	59.476	0.00	0.00
ATOM	8078	C	ASN	X	529	47.088	34.848	62.951	0.00	0.00
ATOM	8079	O	ASN	X	529	47.027	35.916	63.491	0.00	0.00
ATOM	8080	N	ARG	X	530	47.469	33.715	63.549	0.00	0.00
ATOM	8081	H	ARG	X	530	47.572	32.880	62.990	0.00	0.00
ATOM	8082	CA	ARG	X	530	47.769	33.671	64.996	0.00	0.00
ATOM	8083	HA	ARG	X	530	47.413	34.553	65.529	0.00	0.00
ATOM	8084	CB	ARG	X	530	47.123	32.447	65.666	0.00	0.00
ATOM	8085	HB2	ARG	X	530	47.651	31.493	65.660	0.00	0.00
ATOM	8086	HB3	ARG	X	530	47.025	32.652	66.732	0.00	0.00
ATOM	8087	CG	ARG	X	530	45.671	32.277	65.202	0.00	0.00
ATOM	8088	HG2	ARG	X	530	45.151	33.234	65.185	0.00	0.00
ATOM	8089	HG3	ARG	X	530	45.572	31.965	64.162	0.00	0.00
ATOM	8090	CD	ARG	X	530	44.842	31.444	66.102	0.00	0.00
ATOM	8091	HD2	ARG	X	530	44.821	31.880	67.101	0.00	0.00

ATOM	8092	HD3	ARG	X	530	43.815	31.364	65.746	0.00	0.00
ATOM	8093	NE	ARG	X	530	45.392	30.055	66.180	0.00	0.00
ATOM	8094	HE	ARG	X	530	46.348	30.011	65.857	0.00	0.00
ATOM	8095	CZ	ARG	X	530	44.970	29.187	67.086	0.00	0.00
ATOM	8096	NH1	ARG	X	530	43.870	29.254	67.813	0.00	0.00
ATOM	8097	HH11	ARG	X	530	43.168	29.939	67.570	0.00	0.00
ATOM	8098	HH12	ARG	X	530	43.624	28.393	68.280	0.00	0.00
ATOM	8099	NH2	ARG	X	530	45.782	28.134	67.221	0.00	0.00
ATOM	8100	HH21	ARG	X	530	46.618	28.062	66.659	0.00	0.00
ATOM	8101	HH22	ARG	X	530	45.567	27.461	67.943	0.00	0.00
ATOM	8102	C	ARG	X	530	49.284	33.767	65.271	0.00	0.00
ATOM	8103	O	ARG	X	530	49.661	34.626	66.031	0.00	0.00
ATOM	8104	N	PHE	X	531	50.132	32.909	64.706	0.00	0.00
ATOM	8105	H	PHE	X	531	49.756	32.154	64.151	0.00	0.00
ATOM	8106	CA	PHE	X	531	51.532	32.910	65.072	0.00	0.00
ATOM	8107	HA	PHE	X	531	51.681	33.111	66.132	0.00	0.00
ATOM	8108	CB	PHE	X	531	52.129	31.495	64.836	0.00	0.00
ATOM	8109	HB2	PHE	X	531	51.540	30.740	65.358	0.00	0.00
ATOM	8110	HB3	PHE	X	531	51.883	31.313	63.790	0.00	0.00
ATOM	8111	CG	PHE	X	531	53.624	31.394	65.013	0.00	0.00
ATOM	8112	CD1	PHE	X	531	54.532	31.650	63.955	0.00	0.00
ATOM	8113	HD1	PHE	X	531	54.241	31.901	62.946	0.00	0.00
ATOM	8114	CE1	PHE	X	531	55.905	31.548	64.163	0.00	0.00
ATOM	8115	HE1	PHE	X	531	56.576	31.554	63.317	0.00	0.00
ATOM	8116	CZ	PHE	X	531	56.434	31.265	65.435	0.00	0.00
ATOM	8117	HZ	PHE	X	531	57.489	31.077	65.572	0.00	0.00
ATOM	8118	CE2	PHE	X	531	55.560	31.003	66.507	0.00	0.00
ATOM	8119	HE2	PHE	X	531	55.978	30.634	67.432	0.00	0.00
ATOM	8120	CD2	PHE	X	531	54.186	31.081	66.307	0.00	0.00
ATOM	8121	HD2	PHE	X	531	53.551	30.871	67.154	0.00	0.00
ATOM	8122	C	PHE	X	531	52.286	33.983	64.338	0.00	0.00
ATOM	8123	O	PHE	X	531	52.735	34.957	64.924	0.00	0.00
ATOM	8124	N	LEU	X	532	52.265	33.880	63.031	0.00	0.00
ATOM	8125	H	LEU	X	532	51.629	33.300	62.502	0.00	0.00
ATOM	8126	CA	LEU	X	532	53.215	34.601	62.189	0.00	0.00
ATOM	8127	HA	LEU	X	532	54.225	34.534	62.593	0.00	0.00
ATOM	8128	CB	LEU	X	532	53.245	34.040	60.787	0.00	0.00
ATOM	8129	HB2	LEU	X	532	53.575	33.002	60.823	0.00	0.00
ATOM	8130	HB3	LEU	X	532	52.214	34.065	60.432	0.00	0.00
ATOM	8131	CG	LEU	X	532	54.151	34.606	59.646	0.00	0.00
ATOM	8132	HG	LEU	X	532	54.198	33.804	58.910	0.00	0.00
ATOM	8133	CD1	LEU	X	532	53.496	35.850	59.023	0.00	0.00
ATOM	8134	HD11	LEU	X	532	54.133	36.116	58.179	0.00	0.00
ATOM	8135	HD12	LEU	X	532	53.491	36.720	59.681	0.00	0.00
ATOM	8136	HD13	LEU	X	532	52.467	35.744	58.681	0.00	0.00
ATOM	8137	CD2	LEU	X	532	55.634	34.928	60.085	0.00	0.00
ATOM	8138	HD21	LEU	X	532	56.153	34.074	60.520	0.00	0.00
ATOM	8139	HD22	LEU	X	532	56.143	35.092	59.136	0.00	0.00
ATOM	8140	HD23	LEU	X	532	55.717	35.846	60.668	0.00	0.00
ATOM	8141	C	LEU	X	532	52.844	36.132	62.189	0.00	0.00
ATOM	8142	O	LEU	X	532	53.811	36.856	62.261	0.00	0.00
ATOM	8143	N	PRO	X	533	51.643	36.662	62.198	0.00	0.00
ATOM	8144	CD	PRO	X	533	50.389	35.969	61.897	0.00	0.00
ATOM	8145	HD2	PRO	X	533	50.058	35.585	62.862	0.00	0.00
ATOM	8146	HD3	PRO	X	533	50.530	35.313	61.038	0.00	0.00
ATOM	8147	CG	PRO	X	533	49.469	37.192	61.492	0.00	0.00
ATOM	8148	HG2	PRO	X	533	48.423	36.945	61.671	0.00	0.00
ATOM	8149	HG3	PRO	X	533	49.529	37.400	60.423	0.00	0.00
ATOM	8150	CB	PRO	X	533	49.881	38.406	62.329	0.00	0.00
ATOM	8151	HB2	PRO	X	533	49.372	38.394	63.293	0.00	0.00
ATOM	8152	HB3	PRO	X	533	49.795	39.384	61.856	0.00	0.00
ATOM	8153	CA	PRO	X	533	51.378	38.111	62.326	0.00	0.00
ATOM	8154	HA	PRO	X	533	51.838	38.526	61.429	0.00	0.00
ATOM	8155	C	PRO	X	533	52.018	38.778	63.548	0.00	0.00
ATOM	8156	O	PRO	X	533	52.214	39.946	63.514	0.00	0.00
ATOM	8157	N	LYS	X	534	52.241	37.974	64.615	0.00	0.00
ATOM	8158	H	LYS	X	534	52.016	36.990	64.590	0.00	0.00

ATOM	8159	CA	LYS	X	534	52.932	38.443	65.862	0.00	0.00
ATOM	8160	HA	LYS	X	534	52.510	39.426	66.075	0.00	0.00
ATOM	8161	CB	LYS	X	534	52.525	37.579	67.063	0.00	0.00
ATOM	8162	HB2	LYS	X	534	52.677	36.520	66.852	0.00	0.00
ATOM	8163	HB3	LYS	X	534	53.264	37.779	67.838	0.00	0.00
ATOM	8164	CG	LYS	X	534	51.135	37.841	67.503	0.00	0.00
ATOM	8165	HG2	LYS	X	534	51.035	38.875	67.835	0.00	0.00
ATOM	8166	HG3	LYS	X	534	50.522	37.685	66.615	0.00	0.00
ATOM	8167	CD	LYS	X	534	50.769	36.916	68.629	0.00	0.00
ATOM	8168	HD2	LYS	X	534	50.920	35.893	68.283	0.00	0.00
ATOM	8169	HD3	LYS	X	534	51.455	37.157	69.440	0.00	0.00
ATOM	8170	CE	LYS	X	534	49.299	37.105	68.899	0.00	0.00
ATOM	8171	HE2	LYS	X	534	49.112	36.826	69.936	0.00	0.00
ATOM	8172	HE3	LYS	X	534	49.075	38.170	68.840	0.00	0.00
ATOM	8173	NZ	LYS	X	534	48.373	36.351	67.989	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	47.438	36.314	68.368	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	48.310	36.797	67.085	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	48.637	35.392	67.817	0.00	0.00
ATOM	8177	C	LYS	X	534	54.460	38.746	65.621	0.00	0.00
ATOM	8178	O	LYS	X	534	55.091	39.676	66.105	0.00	0.00
ATOM	8179	N	LEU	X	535	55.047	37.926	64.757	0.00	0.00
ATOM	8180	H	LEU	X	535	54.416	37.230	64.386	0.00	0.00
ATOM	8181	CA	LEU	X	535	56.430	38.097	64.182	0.00	0.00
ATOM	8182	HA	LEU	X	535	57.110	38.439	64.962	0.00	0.00
ATOM	8183	CB	LEU	X	535	56.997	36.667	63.790	0.00	0.00
ATOM	8184	HB2	LEU	X	535	56.323	36.106	63.142	0.00	0.00
ATOM	8185	HB3	LEU	X	535	57.861	36.862	63.155	0.00	0.00
ATOM	8186	CG	LEU	X	535	57.471	35.720	64.871	0.00	0.00
ATOM	8187	HG	LEU	X	535	58.083	36.322	65.542	0.00	0.00
ATOM	8188	CD1	LEU	X	535	56.287	35.098	65.684	0.00	0.00
ATOM	8189	HD11	LEU	X	535	55.773	35.942	66.144	0.00	0.00
ATOM	8190	HD12	LEU	X	535	56.763	34.448	66.419	0.00	0.00
ATOM	8191	HD13	LEU	X	535	55.555	34.531	65.108	0.00	0.00
ATOM	8192	CD2	LEU	X	535	58.205	34.477	64.300	0.00	0.00
ATOM	8193	HD21	LEU	X	535	57.504	34.006	63.611	0.00	0.00
ATOM	8194	HD22	LEU	X	535	58.980	34.808	63.609	0.00	0.00
ATOM	8195	HD23	LEU	X	535	58.615	33.812	65.060	0.00	0.00
ATOM	8196	C	LEU	X	535	56.566	39.145	63.057	0.00	0.00
ATOM	8197	O	LEU	X	535	57.361	40.065	63.191	0.00	0.00
ATOM	8198	N	LEU	X	536	55.766	38.963	62.030	0.00	0.00
ATOM	8199	H	LEU	X	536	55.232	38.106	62.012	0.00	0.00
ATOM	8200	CA	LEU	X	536	55.644	39.887	60.875	0.00	0.00
ATOM	8201	HA	LEU	X	536	56.647	39.879	60.449	0.00	0.00
ATOM	8202	CB	LEU	X	536	54.527	39.321	60.017	0.00	0.00
ATOM	8203	HB2	LEU	X	536	54.931	38.369	59.673	0.00	0.00
ATOM	8204	HB3	LEU	X	536	53.649	39.126	60.632	0.00	0.00
ATOM	8205	CG	LEU	X	536	54.198	40.160	58.668	0.00	0.00
ATOM	8206	HG	LEU	X	536	53.878	41.147	59.003	0.00	0.00
ATOM	8207	CD1	LEU	X	536	55.361	40.270	57.641	0.00	0.00
ATOM	8208	HD11	LEU	X	536	56.260	40.683	58.098	0.00	0.00
ATOM	8209	HD12	LEU	X	536	54.965	40.747	56.744	0.00	0.00
ATOM	8210	HD13	LEU	X	536	55.591	39.245	57.351	0.00	0.00
ATOM	8211	CD2	LEU	X	536	53.054	39.406	57.836	0.00	0.00
ATOM	8212	HD21	LEU	X	536	53.475	38.535	57.334	0.00	0.00
ATOM	8213	HD22	LEU	X	536	52.261	39.194	58.553	0.00	0.00
ATOM	8214	HD23	LEU	X	536	52.777	40.133	57.072	0.00	0.00
ATOM	8215	C	LEU	X	536	55.525	41.442	61.186	0.00	0.00
ATOM	8216	O	LEU	X	536	56.176	42.218	60.429	0.00	0.00
ATOM	8217	N	SER	X	537	54.796	41.810	62.265	0.00	0.00
ATOM	8218	H	SER	X	537	54.203	41.174	62.779	0.00	0.00
ATOM	8219	CA	SER	X	537	54.731	43.208	62.848	0.00	0.00
ATOM	8220	HA	SER	X	537	54.567	43.854	61.985	0.00	0.00
ATOM	8221	CB	SER	X	537	53.503	43.314	63.776	0.00	0.00
ATOM	8222	HB2	SER	X	537	53.394	44.373	64.007	0.00	0.00
ATOM	8223	HB3	SER	X	537	52.630	42.974	63.218	0.00	0.00
ATOM	8224	OG	SER	X	537	53.704	42.463	64.892	0.00	0.00
ATOM	8225	HG	SER	X	537	52.982	42.572	65.516	0.00	0.00

ATOM	8226	C	SER	X	537	55.916	43.764	63.536	0.00	0.00
ATOM	8227	O	SER	X	537	55.937	45.000	63.616	0.00	0.00
ATOM	8228	N	ALA	X	538	56.780	42.845	63.979	0.00	0.00
ATOM	8229	H	ALA	X	538	56.683	41.874	63.716	0.00	0.00
ATOM	8230	CA	ALA	X	538	58.020	43.164	64.709	0.00	0.00
ATOM	8231	HA	ALA	X	538	58.654	43.635	63.957	0.00	0.00
ATOM	8232	CB	ALA	X	538	57.730	44.069	66.001	0.00	0.00
ATOM	8233	HB1	ALA	X	538	58.612	44.100	66.641	0.00	0.00
ATOM	8234	HB2	ALA	X	538	56.972	43.539	66.577	0.00	0.00
ATOM	8235	HB3	ALA	X	538	57.406	45.088	65.790	0.00	0.00
ATOM	8236	C	ALA	X	538	58.890	41.976	65.171	0.00	0.00
ATOM	8237	O	ALA	X	538	58.458	41.154	65.934	0.00	0.00
ATOM	8238	N	THR	X	539	60.131	41.853	64.612	0.00	0.00
ATOM	8239	H	THR	X	539	60.291	42.546	63.895	0.00	0.00
ATOM	8240	CA	THR	X	539	61.234	40.963	64.969	0.00	0.00
ATOM	8241	HA	THR	X	539	61.349	40.983	66.053	0.00	0.00
ATOM	8242	CB	THR	X	539	61.089	39.473	64.665	0.00	0.00
ATOM	8243	HB	THR	X	539	61.064	39.356	63.581	0.00	0.00
ATOM	8244	CG2	THR	X	539	62.161	38.630	65.257	0.00	0.00
ATOM	8245	HG21	THR	X	539	61.935	37.568	65.161	0.00	0.00
ATOM	8246	HG22	THR	X	539	62.160	38.789	66.335	0.00	0.00
ATOM	8247	HG23	THR	X	539	63.144	38.978	64.939	0.00	0.00
ATOM	8248	OG1	THR	X	539	59.830	38.989	65.197	0.00	0.00
ATOM	8249	HG1	THR	X	539	59.406	39.785	65.528	0.00	0.00
ATOM	8250	C	THR	X	539	62.481	41.483	64.363	0.00	0.00
ATOM	8251	O	THR	X	539	62.443	41.444	63.113	0.00	0.00
ATOM	8252	OXT	THR	X	539	63.409	41.863	65.133	0.00	0.00

END

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1B41 Production MD Frame 1000
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CRYST1	82.043	82.043	82.043	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	20.710	46.111	7.496	0.00	0.00
ATOM	2	H1	ASP	X	1	20.426	45.760	6.593	0.00	0.00
ATOM	3	H2	ASP	X	1	20.346	45.499	8.212	0.00	0.00
ATOM	4	H3	ASP	X	1	21.708	45.982	7.586	0.00	0.00
ATOM	5	CA	ASP	X	1	20.290	47.558	7.673	0.00	0.00
ATOM	6	HA	ASP	X	1	20.783	48.052	6.835	0.00	0.00
ATOM	7	CB	ASP	X	1	18.767	47.778	7.507	0.00	0.00
ATOM	8	HB2	ASP	X	1	18.466	47.405	6.528	0.00	0.00
ATOM	9	HB3	ASP	X	1	18.279	47.268	8.338	0.00	0.00
ATOM	10	CG	ASP	X	1	18.379	49.249	7.589	0.00	0.00
ATOM	11	OD1	ASP	X	1	17.204	49.526	7.532	0.00	0.00
ATOM	12	OD2	ASP	X	1	19.294	50.128	7.555	0.00	0.00
ATOM	13	C	ASP	X	1	20.877	48.072	9.044	0.00	0.00
ATOM	14	O	ASP	X	1	22.058	48.277	9.141	0.00	0.00
ATOM	15	N	ALA	X	2	20.086	48.272	10.118	0.00	0.00
ATOM	16	H	ALA	X	2	19.138	47.926	10.113	0.00	0.00
ATOM	17	CA	ALA	X	2	20.519	48.972	11.325	0.00	0.00
ATOM	18	HA	ALA	X	2	21.375	49.594	11.061	0.00	0.00
ATOM	19	CB	ALA	X	2	19.344	49.914	11.728	0.00	0.00
ATOM	20	HB1	ALA	X	2	19.096	50.600	10.918	0.00	0.00
ATOM	21	HB2	ALA	X	2	19.657	50.618	12.499	0.00	0.00
ATOM	22	HB3	ALA	X	2	18.553	49.374	12.250	0.00	0.00
ATOM	23	C	ALA	X	2	20.935	48.114	12.479	0.00	0.00
ATOM	24	O	ALA	X	2	20.842	48.610	13.605	0.00	0.00
ATOM	25	N	GLU	X	3	21.337	46.847	12.269	0.00	0.00
ATOM	26	H	GLU	X	3	21.442	46.423	11.358	0.00	0.00
ATOM	27	CA	GLU	X	3	21.326	45.936	13.372	0.00	0.00
ATOM	28	HA	GLU	X	3	20.470	46.113	14.024	0.00	0.00
ATOM	29	CB	GLU	X	3	21.436	44.534	12.826	0.00	0.00
ATOM	30	HB2	GLU	X	3	22.478	44.422	12.526	0.00	0.00
ATOM	31	HB3	GLU	X	3	21.380	43.901	13.712	0.00	0.00

ATOM	32	CG	GLU	X	3	20.392	43.952	11.911	0.00	0.00
ATOM	33	HG2	GLU	X	3	20.381	42.863	11.872	0.00	0.00
ATOM	34	HG3	GLU	X	3	19.414	44.212	12.316	0.00	0.00
ATOM	35	CD	GLU	X	3	20.422	44.554	10.506	0.00	0.00
ATOM	36	OE1	GLU	X	3	21.476	44.709	9.854	0.00	0.00
ATOM	37	OE2	GLU	X	3	19.388	45.043	10.054	0.00	0.00
ATOM	38	C	GLU	X	3	22.450	46.272	14.384	0.00	0.00
ATOM	39	O	GLU	X	3	22.347	45.934	15.597	0.00	0.00
ATOM	40	N	LEU	X	4	23.525	46.883	13.945	0.00	0.00
ATOM	41	H	LEU	X	4	23.633	47.124	12.970	0.00	0.00
ATOM	42	CA	LEU	X	4	24.593	47.506	14.753	0.00	0.00
ATOM	43	HA	LEU	X	4	24.802	46.899	15.634	0.00	0.00
ATOM	44	CB	LEU	X	4	25.929	47.403	13.927	0.00	0.00
ATOM	45	HB2	LEU	X	4	25.960	48.142	13.126	0.00	0.00
ATOM	46	HB3	LEU	X	4	26.783	47.648	14.559	0.00	0.00
ATOM	47	CG	LEU	X	4	26.287	45.988	13.394	0.00	0.00
ATOM	48	HG	LEU	X	4	25.413	45.462	13.009	0.00	0.00
ATOM	49	CD1	LEU	X	4	27.383	46.063	12.349	0.00	0.00
ATOM	50	HD11	LEU	X	4	27.359	45.148	11.757	0.00	0.00
ATOM	51	HD12	LEU	X	4	28.375	46.151	12.791	0.00	0.00
ATOM	52	HD13	LEU	X	4	27.357	46.938	11.699	0.00	0.00
ATOM	53	CD2	LEU	X	4	26.653	45.081	14.512	0.00	0.00
ATOM	54	HD21	LEU	X	4	26.702	44.082	14.080	0.00	0.00
ATOM	55	HD22	LEU	X	4	27.543	45.388	15.061	0.00	0.00
ATOM	56	HD23	LEU	X	4	25.775	44.946	15.144	0.00	0.00
ATOM	57	C	LEU	X	4	24.386	48.974	15.153	0.00	0.00
ATOM	58	O	LEU	X	4	25.331	49.662	15.495	0.00	0.00
ATOM	59	N	LEU	X	5	23.169	49.519	15.184	0.00	0.00
ATOM	60	H	LEU	X	5	22.429	48.896	14.892	0.00	0.00
ATOM	61	CA	LEU	X	5	22.883	50.929	15.613	0.00	0.00
ATOM	62	HA	LEU	X	5	23.790	51.458	15.906	0.00	0.00
ATOM	63	CB	LEU	X	5	22.232	51.657	14.370	0.00	0.00
ATOM	64	HB2	LEU	X	5	22.696	51.233	13.481	0.00	0.00
ATOM	65	HB3	LEU	X	5	21.185	51.372	14.268	0.00	0.00
ATOM	66	CG	LEU	X	5	22.396	53.217	14.238	0.00	0.00
ATOM	67	HG	LEU	X	5	21.774	53.510	13.392	0.00	0.00
ATOM	68	CD1	LEU	X	5	21.833	54.114	15.341	0.00	0.00
ATOM	69	HD11	LEU	X	5	22.089	55.157	15.155	0.00	0.00
ATOM	70	HD12	LEU	X	5	22.380	53.872	16.252	0.00	0.00
ATOM	71	HD13	LEU	X	5	20.751	53.986	15.341	0.00	0.00
ATOM	72	CD2	LEU	X	5	23.843	53.701	14.009	0.00	0.00
ATOM	73	HD21	LEU	X	5	23.945	54.717	13.625	0.00	0.00
ATOM	74	HD22	LEU	X	5	24.411	53.713	14.939	0.00	0.00
ATOM	75	HD23	LEU	X	5	24.310	53.009	13.308	0.00	0.00
ATOM	76	C	LEU	X	5	21.860	50.813	16.767	0.00	0.00
ATOM	77	O	LEU	X	5	20.866	50.072	16.640	0.00	0.00
ATOM	78	N	VAL	X	6	21.957	51.640	17.799	0.00	0.00
ATOM	79	H	VAL	X	6	22.795	52.200	17.731	0.00	0.00
ATOM	80	CA	VAL	X	6	21.299	51.451	19.082	0.00	0.00
ATOM	81	HA	VAL	X	6	20.285	51.093	18.906	0.00	0.00
ATOM	82	CB	VAL	X	6	22.057	50.360	19.976	0.00	0.00
ATOM	83	HB	VAL	X	6	23.121	50.506	19.787	0.00	0.00
ATOM	84	CG1	VAL	X	6	22.019	50.546	21.533	0.00	0.00
ATOM	85	HG11	VAL	X	6	22.480	51.498	21.798	0.00	0.00
ATOM	86	HG12	VAL	X	6	20.986	50.561	21.879	0.00	0.00
ATOM	87	HG13	VAL	X	6	22.623	49.811	22.066	0.00	0.00
ATOM	88	CG2	VAL	X	6	21.945	48.765	19.690	0.00	0.00
ATOM	89	HG21	VAL	X	6	22.637	48.266	20.369	0.00	0.00
ATOM	90	HG22	VAL	X	6	22.309	48.593	18.677	0.00	0.00
ATOM	91	HG23	VAL	X	6	20.928	48.644	20.064	0.00	0.00
ATOM	92	C	VAL	X	6	21.172	52.826	19.755	0.00	0.00
ATOM	93	O	VAL	X	6	22.140	53.615	19.773	0.00	0.00
ATOM	94	N	THR	X	7	19.990	53.107	20.378	0.00	0.00
ATOM	95	H	THR	X	7	19.361	52.317	20.398	0.00	0.00
ATOM	96	CA	THR	X	7	19.599	54.349	21.144	0.00	0.00
ATOM	97	HA	THR	X	7	20.289	55.152	20.885	0.00	0.00
ATOM	98	CB	THR	X	7	18.149	54.805	20.780	0.00	0.00

ATOM	99	HB	THR	X	7	17.443	54.075	21.177	0.00	0.00
ATOM	100	CG2	THR	X	7	17.918	56.231	21.385	0.00	0.00
ATOM	101	HG21	THR	X	7	16.889	56.558	21.241	0.00	0.00
ATOM	102	HG22	THR	X	7	18.669	56.933	21.022	0.00	0.00
ATOM	103	HG23	THR	X	7	17.975	56.237	22.474	0.00	0.00
ATOM	104	OG1	THR	X	7	18.084	54.955	19.337	0.00	0.00
ATOM	105	HG1	THR	X	7	17.671	55.803	19.153	0.00	0.00
ATOM	106	C	THR	X	7	19.735	54.042	22.651	0.00	0.00
ATOM	107	O	THR	X	7	19.338	52.995	23.179	0.00	0.00
ATOM	108	N	VAL	X	8	20.343	55.026	23.293	0.00	0.00
ATOM	109	H	VAL	X	8	20.576	55.895	22.833	0.00	0.00
ATOM	110	CA	VAL	X	8	20.670	55.110	24.735	0.00	0.00
ATOM	111	HA	VAL	X	8	20.143	54.333	25.287	0.00	0.00
ATOM	112	CB	VAL	X	8	22.147	54.818	25.009	0.00	0.00
ATOM	113	HB	VAL	X	8	22.387	55.002	26.056	0.00	0.00
ATOM	114	CG1	VAL	X	8	22.603	53.308	24.896	0.00	0.00
ATOM	115	HG11	VAL	X	8	23.628	53.356	25.264	0.00	0.00
ATOM	116	HG12	VAL	X	8	22.018	52.712	25.597	0.00	0.00
ATOM	117	HG13	VAL	X	8	22.567	52.965	23.863	0.00	0.00
ATOM	118	CG2	VAL	X	8	23.150	55.673	24.134	0.00	0.00
ATOM	119	HG21	VAL	X	8	23.001	56.743	24.277	0.00	0.00
ATOM	120	HG22	VAL	X	8	23.071	55.411	23.079	0.00	0.00
ATOM	121	HG23	VAL	X	8	24.116	55.238	24.390	0.00	0.00
ATOM	122	C	VAL	X	8	20.202	56.463	25.193	0.00	0.00
ATOM	123	O	VAL	X	8	19.930	57.399	24.407	0.00	0.00
ATOM	124	N	ARG	X	9	20.153	56.708	26.482	0.00	0.00
ATOM	125	H	ARG	X	9	20.399	56.004	27.163	0.00	0.00
ATOM	126	CA	ARG	X	9	19.461	57.976	26.931	0.00	0.00
ATOM	127	HA	ARG	X	9	18.435	57.993	26.563	0.00	0.00
ATOM	128	CB	ARG	X	9	19.429	57.978	28.518	0.00	0.00
ATOM	129	HB2	ARG	X	9	18.912	57.130	28.967	0.00	0.00
ATOM	130	HB3	ARG	X	9	20.458	58.040	28.873	0.00	0.00
ATOM	131	CG	ARG	X	9	18.798	59.233	29.075	0.00	0.00
ATOM	132	HG2	ARG	X	9	19.425	60.093	28.838	0.00	0.00
ATOM	133	HG3	ARG	X	9	17.803	59.457	28.691	0.00	0.00
ATOM	134	CD	ARG	X	9	18.707	59.099	30.676	0.00	0.00
ATOM	135	HD2	ARG	X	9	18.538	58.044	30.892	0.00	0.00
ATOM	136	HD3	ARG	X	9	19.683	59.413	31.048	0.00	0.00
ATOM	137	NE	ARG	X	9	17.664	59.963	31.251	0.00	0.00
ATOM	138	HE	ARG	X	9	17.035	60.477	30.651	0.00	0.00
ATOM	139	CZ	ARG	X	9	17.443	60.128	32.550	0.00	0.00
ATOM	140	NH1	ARG	X	9	18.064	59.563	33.560	0.00	0.00
ATOM	141	HH11	ARG	X	9	18.890	59.007	33.393	0.00	0.00
ATOM	142	HH12	ARG	X	9	17.898	59.909	34.494	0.00	0.00
ATOM	143	NH2	ARG	X	9	16.431	60.961	32.859	0.00	0.00
ATOM	144	HH21	ARG	X	9	15.920	61.433	32.126	0.00	0.00
ATOM	145	HH22	ARG	X	9	16.006	60.935	33.775	0.00	0.00
ATOM	146	C	ARG	X	9	20.082	59.281	26.366	0.00	0.00
ATOM	147	O	ARG	X	9	19.394	60.313	26.116	0.00	0.00
ATOM	148	N	GLY	X	10	21.396	59.252	26.030	0.00	0.00
ATOM	149	H	GLY	X	10	21.923	58.439	26.316	0.00	0.00
ATOM	150	CA	GLY	X	10	22.050	60.458	25.438	0.00	0.00
ATOM	151	HA2	GLY	X	10	21.580	61.377	25.788	0.00	0.00
ATOM	152	HA3	GLY	X	10	23.122	60.439	25.635	0.00	0.00
ATOM	153	C	GLY	X	10	21.908	60.666	23.932	0.00	0.00
ATOM	154	O	GLY	X	10	22.141	61.721	23.377	0.00	0.00
ATOM	155	N	GLY	X	11	21.391	59.658	23.250	0.00	0.00
ATOM	156	H	GLY	X	11	21.096	58.854	23.786	0.00	0.00
ATOM	157	CA	GLY	X	11	21.059	59.568	21.749	0.00	0.00
ATOM	158	HA2	GLY	X	11	19.994	59.592	21.517	0.00	0.00
ATOM	159	HA3	GLY	X	11	21.348	60.469	21.207	0.00	0.00
ATOM	160	C	GLY	X	11	21.604	58.280	21.145	0.00	0.00
ATOM	161	O	GLY	X	11	21.367	57.220	21.727	0.00	0.00
ATOM	162	N	ARG	X	12	22.164	58.299	19.931	0.00	0.00
ATOM	163	H	ARG	X	12	22.160	59.124	19.348	0.00	0.00
ATOM	164	CA	ARG	X	12	22.559	57.063	19.193	0.00	0.00
ATOM	165	HA	ARG	X	12	22.012	56.218	19.611	0.00	0.00

ATOM	166	CB	ARG	X	12	21.989	57.057	17.779	0.00	0.00
ATOM	167	HB2	ARG	X	12	22.327	57.959	17.268	0.00	0.00
ATOM	168	HB3	ARG	X	12	22.436	56.190	17.293	0.00	0.00
ATOM	169	CG	ARG	X	12	20.466	56.758	17.665	0.00	0.00
ATOM	170	HG2	ARG	X	12	20.229	55.696	17.601	0.00	0.00
ATOM	171	HG3	ARG	X	12	19.993	57.205	18.539	0.00	0.00
ATOM	172	CD	ARG	X	12	19.765	57.189	16.361	0.00	0.00
ATOM	173	HD2	ARG	X	12	20.352	56.756	15.551	0.00	0.00
ATOM	174	HD3	ARG	X	12	18.774	56.748	16.460	0.00	0.00
ATOM	175	NE	ARG	X	12	19.685	58.655	16.224	0.00	0.00
ATOM	176	HE	ARG	X	12	19.378	59.111	17.072	0.00	0.00
ATOM	177	CZ	ARG	X	12	20.011	59.422	15.189	0.00	0.00
ATOM	178	NH1	ARG	X	12	20.537	58.903	14.071	0.00	0.00
ATOM	179	HH11	ARG	X	12	20.388	57.908	13.985	0.00	0.00
ATOM	180	HH12	ARG	X	12	20.790	59.454	13.263	0.00	0.00
ATOM	181	NH2	ARG	X	12	19.787	60.724	15.263	0.00	0.00
ATOM	182	HH21	ARG	X	12	19.332	61.170	16.046	0.00	0.00
ATOM	183	HH22	ARG	X	12	20.230	61.276	14.542	0.00	0.00
ATOM	184	C	ARG	X	12	24.071	56.688	19.262	0.00	0.00
ATOM	185	O	ARG	X	12	24.984	57.477	19.313	0.00	0.00
ATOM	186	N	LEU	X	13	24.273	55.373	19.154	0.00	0.00
ATOM	187	H	LEU	X	13	23.452	54.793	19.061	0.00	0.00
ATOM	188	CA	LEU	X	13	25.605	54.725	18.942	0.00	0.00
ATOM	189	HA	LEU	X	13	26.248	55.550	18.634	0.00	0.00
ATOM	190	CB	LEU	X	13	26.093	53.943	20.208	0.00	0.00
ATOM	191	HB2	LEU	X	13	25.575	53.011	20.434	0.00	0.00
ATOM	192	HB3	LEU	X	13	27.127	53.683	19.981	0.00	0.00
ATOM	193	CG	LEU	X	13	26.102	54.792	21.519	0.00	0.00
ATOM	194	HG	LEU	X	13	25.126	55.254	21.664	0.00	0.00
ATOM	195	CD1	LEU	X	13	26.296	53.833	22.701	0.00	0.00
ATOM	196	HD11	LEU	X	13	25.328	53.358	22.856	0.00	0.00
ATOM	197	HD12	LEU	X	13	26.471	54.348	23.645	0.00	0.00
ATOM	198	HD13	LEU	X	13	27.035	53.031	22.694	0.00	0.00
ATOM	199	CD2	LEU	X	13	27.089	55.979	21.642	0.00	0.00
ATOM	200	HD21	LEU	X	13	27.142	56.397	22.647	0.00	0.00
ATOM	201	HD22	LEU	X	13	28.100	55.676	21.370	0.00	0.00
ATOM	202	HD23	LEU	X	13	26.857	56.708	20.865	0.00	0.00
ATOM	203	C	LEU	X	13	25.551	53.763	17.736	0.00	0.00
ATOM	204	O	LEU	X	13	24.499	53.078	17.558	0.00	0.00
ATOM	205	N	ARG	X	14	26.673	53.726	17.047	0.00	0.00
ATOM	206	H	ARG	X	14	27.380	54.388	17.330	0.00	0.00
ATOM	207	CA	ARG	X	14	27.094	52.658	16.023	0.00	0.00
ATOM	208	HA	ARG	X	14	26.200	52.053	15.874	0.00	0.00
ATOM	209	CB	ARG	X	14	27.432	53.208	14.620	0.00	0.00
ATOM	210	HB2	ARG	X	14	26.712	54.014	14.474	0.00	0.00
ATOM	211	HB3	ARG	X	14	28.454	53.586	14.629	0.00	0.00
ATOM	212	CG	ARG	X	14	27.253	52.124	13.517	0.00	0.00
ATOM	213	HG2	ARG	X	14	27.855	51.232	13.692	0.00	0.00
ATOM	214	HG3	ARG	X	14	26.211	51.804	13.533	0.00	0.00
ATOM	215	CD	ARG	X	14	27.825	52.603	12.129	0.00	0.00
ATOM	216	HD2	ARG	X	14	28.860	52.930	12.231	0.00	0.00
ATOM	217	HD3	ARG	X	14	27.692	51.781	11.426	0.00	0.00
ATOM	218	NE	ARG	X	14	27.006	53.658	11.518	0.00	0.00
ATOM	219	HE	ARG	X	14	26.074	53.350	11.278	0.00	0.00
ATOM	220	CZ	ARG	X	14	27.242	54.980	11.596	0.00	0.00
ATOM	221	NH1	ARG	X	14	28.401	55.477	12.019	0.00	0.00
ATOM	222	HH11	ARG	X	14	29.164	54.910	12.360	0.00	0.00
ATOM	223	HH12	ARG	X	14	28.545	56.472	11.913	0.00	0.00
ATOM	224	NH2	ARG	X	14	26.261	55.872	11.480	0.00	0.00
ATOM	225	HH21	ARG	X	14	25.320	55.602	11.231	0.00	0.00
ATOM	226	HH22	ARG	X	14	26.486	56.849	11.602	0.00	0.00
ATOM	227	C	ARG	X	14	28.202	51.759	16.522	0.00	0.00
ATOM	228	O	ARG	X	14	29.161	52.291	17.047	0.00	0.00
ATOM	229	N	GLY	X	15	28.091	50.429	16.319	0.00	0.00
ATOM	230	H	GLY	X	15	27.310	50.142	15.747	0.00	0.00
ATOM	231	CA	GLY	X	15	29.088	49.370	16.638	0.00	0.00
ATOM	232	HA2	GLY	X	15	30.034	49.790	16.977	0.00	0.00

ATOM	233	HA3	GLY	X	15	28.648	48.762	17.429	0.00	0.00
ATOM	234	C	GLY	X	15	29.378	48.363	15.499	0.00	0.00
ATOM	235	O	GLY	X	15	29.359	48.748	14.359	0.00	0.00
ATOM	236	N	ILE	X	16	29.752	47.139	15.892	0.00	0.00
ATOM	237	H	ILE	X	16	29.974	47.080	16.876	0.00	0.00
ATOM	238	CA	ILE	X	16	30.491	46.166	15.033	0.00	0.00
ATOM	239	HA	ILE	X	16	30.252	46.433	14.003	0.00	0.00
ATOM	240	CB	ILE	X	16	32.029	46.285	15.161	0.00	0.00
ATOM	241	HB	ILE	X	16	32.382	45.435	14.576	0.00	0.00
ATOM	242	CG2	ILE	X	16	32.675	47.499	14.538	0.00	0.00
ATOM	243	HG21	ILE	X	16	32.274	48.409	14.983	0.00	0.00
ATOM	244	HG22	ILE	X	16	32.434	47.464	13.475	0.00	0.00
ATOM	245	HG23	ILE	X	16	33.746	47.349	14.674	0.00	0.00
ATOM	246	CG1	ILE	X	16	32.617	46.047	16.607	0.00	0.00
ATOM	247	HG12	ILE	X	16	32.194	46.861	17.196	0.00	0.00
ATOM	248	HG13	ILE	X	16	32.209	45.099	16.957	0.00	0.00
ATOM	249	CD1	ILE	X	16	34.095	45.886	16.841	0.00	0.00
ATOM	250	HD11	ILE	X	16	34.472	45.082	16.207	0.00	0.00
ATOM	251	HD12	ILE	X	16	34.360	45.656	17.873	0.00	0.00
ATOM	252	HD13	ILE	X	16	34.736	46.718	16.553	0.00	0.00
ATOM	253	C	ILE	X	16	30.154	44.723	15.403	0.00	0.00
ATOM	254	O	ILE	X	16	30.095	44.351	16.597	0.00	0.00
ATOM	255	N	ARG	X	17	30.028	43.917	14.369	0.00	0.00
ATOM	256	H	ARG	X	17	30.096	44.366	13.467	0.00	0.00
ATOM	257	CA	ARG	X	17	29.951	42.447	14.434	0.00	0.00
ATOM	258	HA	ARG	X	17	29.250	42.101	15.193	0.00	0.00
ATOM	259	CB	ARG	X	17	29.455	41.936	13.077	0.00	0.00
ATOM	260	HB2	ARG	X	17	28.627	42.589	12.801	0.00	0.00
ATOM	261	HB3	ARG	X	17	30.235	42.022	12.320	0.00	0.00
ATOM	262	CG	ARG	X	17	28.932	40.483	13.055	0.00	0.00
ATOM	263	HG2	ARG	X	17	29.756	39.848	13.382	0.00	0.00
ATOM	264	HG3	ARG	X	17	28.019	40.399	13.643	0.00	0.00
ATOM	265	CD	ARG	X	17	28.660	40.191	11.603	0.00	0.00
ATOM	266	HD2	ARG	X	17	27.807	40.824	11.362	0.00	0.00
ATOM	267	HD3	ARG	X	17	29.468	40.368	10.892	0.00	0.00
ATOM	268	NE	ARG	X	17	28.190	38.853	11.317	0.00	0.00
ATOM	269	HE	ARG	X	17	27.192	38.706	11.371	0.00	0.00
ATOM	270	CZ	ARG	X	17	28.861	37.822	10.920	0.00	0.00
ATOM	271	NH1	ARG	X	17	30.158	37.735	10.989	0.00	0.00
ATOM	272	HH11	ARG	X	17	30.663	38.558	11.285	0.00	0.00
ATOM	273	HH12	ARG	X	17	30.615	36.929	10.589	0.00	0.00
ATOM	274	NH2	ARG	X	17	28.193	36.851	10.436	0.00	0.00
ATOM	275	HH21	ARG	X	17	27.186	36.889	10.365	0.00	0.00
ATOM	276	HH22	ARG	X	17	28.650	36.077	9.976	0.00	0.00
ATOM	277	C	ARG	X	17	31.363	41.857	14.763	0.00	0.00
ATOM	278	O	ARG	X	17	32.405	42.234	14.234	0.00	0.00
ATOM	279	N	LEU	X	18	31.311	40.777	15.498	0.00	0.00
ATOM	280	H	LEU	X	18	30.445	40.598	15.987	0.00	0.00
ATOM	281	CA	LEU	X	18	32.451	39.917	15.938	0.00	0.00
ATOM	282	HA	LEU	X	18	33.296	40.280	15.353	0.00	0.00
ATOM	283	CB	LEU	X	18	32.697	40.100	17.412	0.00	0.00
ATOM	284	HB2	LEU	X	18	31.827	39.857	18.022	0.00	0.00
ATOM	285	HB3	LEU	X	18	33.494	39.432	17.739	0.00	0.00
ATOM	286	CG	LEU	X	18	33.150	41.538	17.815	0.00	0.00
ATOM	287	HG	LEU	X	18	32.426	42.283	17.485	0.00	0.00
ATOM	288	CD1	LEU	X	18	33.198	41.573	19.343	0.00	0.00
ATOM	289	HD11	LEU	X	18	33.674	42.470	19.740	0.00	0.00
ATOM	290	HD12	LEU	X	18	33.666	40.718	19.832	0.00	0.00
ATOM	291	HD13	LEU	X	18	32.188	41.488	19.743	0.00	0.00
ATOM	292	CD2	LEU	X	18	34.518	41.934	17.225	0.00	0.00
ATOM	293	HD21	LEU	X	18	34.883	42.819	17.747	0.00	0.00
ATOM	294	HD22	LEU	X	18	35.300	41.223	17.493	0.00	0.00
ATOM	295	HD23	LEU	X	18	34.640	41.909	16.142	0.00	0.00
ATOM	296	C	LEU	X	18	32.065	38.476	15.602	0.00	0.00
ATOM	297	O	LEU	X	18	30.859	38.132	15.759	0.00	0.00
ATOM	298	N	LYS	X	19	33.022	37.698	15.080	0.00	0.00
ATOM	299	H	LYS	X	19	33.977	38.006	15.196	0.00	0.00

ATOM	300	CA	LYS	X	19	32.867	36.373	14.458	0.00	0.00
ATOM	301	HA	LYS	X	19	31.811	36.185	14.264	0.00	0.00
ATOM	302	CB	LYS	X	19	33.635	36.539	13.203	0.00	0.00
ATOM	303	HB2	LYS	X	19	33.198	37.385	12.672	0.00	0.00
ATOM	304	HB3	LYS	X	19	34.670	36.868	13.292	0.00	0.00
ATOM	305	CG	LYS	X	19	33.732	35.239	12.318	0.00	0.00
ATOM	306	HG2	LYS	X	19	34.420	34.531	12.780	0.00	0.00
ATOM	307	HG3	LYS	X	19	32.745	34.778	12.279	0.00	0.00
ATOM	308	CD	LYS	X	19	34.241	35.605	10.928	0.00	0.00
ATOM	309	HD2	LYS	X	19	33.551	36.334	10.504	0.00	0.00
ATOM	310	HD3	LYS	X	19	35.157	36.179	11.069	0.00	0.00
ATOM	311	CE	LYS	X	19	34.332	34.315	10.202	0.00	0.00
ATOM	312	HE2	LYS	X	19	35.039	33.579	10.586	0.00	0.00
ATOM	313	HE3	LYS	X	19	33.347	33.853	10.276	0.00	0.00
ATOM	314	NZ	LYS	X	19	34.816	34.448	8.809	0.00	0.00
ATOM	315	HZ1	LYS	X	19	34.225	35.035	8.238	0.00	0.00
ATOM	316	HZ2	LYS	X	19	35.698	34.941	8.812	0.00	0.00
ATOM	317	HZ3	LYS	X	19	34.963	33.531	8.412	0.00	0.00
ATOM	318	C	LYS	X	19	33.471	35.288	15.374	0.00	0.00
ATOM	319	O	LYS	X	19	34.608	35.521	15.787	0.00	0.00
ATOM	320	N	THR	X	20	32.751	34.164	15.479	0.00	0.00
ATOM	321	H	THR	X	20	31.945	34.091	14.874	0.00	0.00
ATOM	322	CA	THR	X	20	32.800	33.205	16.608	0.00	0.00
ATOM	323	HA	THR	X	20	33.835	32.872	16.684	0.00	0.00
ATOM	324	CB	THR	X	20	32.223	33.834	17.901	0.00	0.00
ATOM	325	HB	THR	X	20	31.991	32.996	18.557	0.00	0.00
ATOM	326	CG2	THR	X	20	33.179	34.765	18.657	0.00	0.00
ATOM	327	HG21	THR	X	20	34.175	34.340	18.782	0.00	0.00
ATOM	328	HG22	THR	X	20	32.709	34.880	19.633	0.00	0.00
ATOM	329	HG23	THR	X	20	33.252	35.663	18.043	0.00	0.00
ATOM	330	OG1	THR	X	20	31.037	34.503	17.572	0.00	0.00
ATOM	331	HG1	THR	X	20	30.459	33.904	17.094	0.00	0.00
ATOM	332	C	THR	X	20	32.063	31.935	16.206	0.00	0.00
ATOM	333	O	THR	X	20	31.199	31.905	15.360	0.00	0.00
ATOM	334	N	PRO	X	21	32.500	30.776	16.681	0.00	0.00
ATOM	335	CD	PRO	X	21	33.411	30.682	17.782	0.00	0.00
ATOM	336	HD2	PRO	X	21	33.131	31.364	18.586	0.00	0.00
ATOM	337	HD3	PRO	X	21	34.391	30.888	17.352	0.00	0.00
ATOM	338	CG	PRO	X	21	33.294	29.157	18.240	0.00	0.00
ATOM	339	HG2	PRO	X	21	32.573	28.947	19.030	0.00	0.00
ATOM	340	HG3	PRO	X	21	34.263	28.759	18.541	0.00	0.00
ATOM	341	CB	PRO	X	21	33.009	28.375	16.945	0.00	0.00
ATOM	342	HB2	PRO	X	21	32.548	27.397	17.086	0.00	0.00
ATOM	343	HB3	PRO	X	21	33.993	28.156	16.530	0.00	0.00
ATOM	344	CA	PRO	X	21	32.309	29.424	16.130	0.00	0.00
ATOM	345	HA	PRO	X	21	32.601	29.333	15.083	0.00	0.00
ATOM	346	C	PRO	X	21	30.828	29.078	16.054	0.00	0.00
ATOM	347	O	PRO	X	21	30.360	28.551	15.050	0.00	0.00
ATOM	348	N	GLY	X	22	30.080	29.289	17.136	0.00	0.00
ATOM	349	H	GLY	X	22	30.530	29.541	18.005	0.00	0.00
ATOM	350	CA	GLY	X	22	28.637	28.946	17.194	0.00	0.00
ATOM	351	HA2	GLY	X	22	28.497	28.040	16.605	0.00	0.00
ATOM	352	HA3	GLY	X	22	28.354	28.818	18.239	0.00	0.00
ATOM	353	C	GLY	X	22	27.614	29.950	16.605	0.00	0.00
ATOM	354	O	GLY	X	22	26.600	30.207	17.248	0.00	0.00
ATOM	355	N	GLY	X	23	27.991	30.744	15.632	0.00	0.00
ATOM	356	H	GLY	X	23	28.918	30.585	15.262	0.00	0.00
ATOM	357	CA	GLY	X	23	27.340	31.981	15.304	0.00	0.00
ATOM	358	HA2	GLY	X	23	27.183	31.923	14.227	0.00	0.00
ATOM	359	HA3	GLY	X	23	26.362	31.893	15.776	0.00	0.00
ATOM	360	C	GLY	X	23	28.080	33.209	15.680	0.00	0.00
ATOM	361	O	GLY	X	23	28.938	33.164	16.530	0.00	0.00
ATOM	362	N	PRO	X	24	27.722	34.421	15.113	0.00	0.00
ATOM	363	CD	PRO	X	24	26.743	34.555	13.959	0.00	0.00
ATOM	364	HD2	PRO	X	24	25.772	34.074	14.075	0.00	0.00
ATOM	365	HD3	PRO	X	24	27.314	34.180	13.110	0.00	0.00
ATOM	366	CG	PRO	X	24	26.535	36.098	13.806	0.00	0.00

ATOM	367	HG2	PRO	X	24	25.716	36.354	14.478	0.00	0.00
ATOM	368	HG3	PRO	X	24	26.279	36.338	12.774	0.00	0.00
ATOM	369	CB	PRO	X	24	27.944	36.579	14.214	0.00	0.00
ATOM	370	HB2	PRO	X	24	27.984	37.634	14.488	0.00	0.00
ATOM	371	HB3	PRO	X	24	28.660	36.250	13.462	0.00	0.00
ATOM	372	CA	PRO	X	24	28.280	35.749	15.454	0.00	0.00
ATOM	373	HA	PRO	X	24	29.365	35.648	15.492	0.00	0.00
ATOM	374	C	PRO	X	24	27.746	36.332	16.715	0.00	0.00
ATOM	375	O	PRO	X	24	26.602	36.050	17.087	0.00	0.00
ATOM	376	N	VAL	X	25	28.495	37.279	17.230	0.00	0.00
ATOM	377	H	VAL	X	25	29.292	37.620	16.713	0.00	0.00
ATOM	378	CA	VAL	X	25	28.088	38.177	18.379	0.00	0.00
ATOM	379	HA	VAL	X	25	27.025	37.985	18.526	0.00	0.00
ATOM	380	CB	VAL	X	25	28.821	37.833	19.684	0.00	0.00
ATOM	381	HB	VAL	X	25	28.397	38.496	20.439	0.00	0.00
ATOM	382	CG1	VAL	X	25	28.302	36.397	20.021	0.00	0.00
ATOM	383	HG11	VAL	X	25	28.783	35.612	19.437	0.00	0.00
ATOM	384	HG12	VAL	X	25	28.433	36.103	21.063	0.00	0.00
ATOM	385	HG13	VAL	X	25	27.218	36.344	19.915	0.00	0.00
ATOM	386	CG2	VAL	X	25	30.395	37.917	19.787	0.00	0.00
ATOM	387	HG21	VAL	X	25	30.867	37.297	19.025	0.00	0.00
ATOM	388	HG22	VAL	X	25	30.773	37.436	20.690	0.00	0.00
ATOM	389	HG23	VAL	X	25	30.682	38.961	19.917	0.00	0.00
ATOM	390	C	VAL	X	25	28.373	39.687	18.006	0.00	0.00
ATOM	391	O	VAL	X	25	28.754	39.952	16.870	0.00	0.00
ATOM	392	N	SER	X	26	28.159	40.640	18.905	0.00	0.00
ATOM	393	H	SER	X	26	27.657	40.457	19.762	0.00	0.00
ATOM	394	CA	SER	X	26	28.218	42.096	18.495	0.00	0.00
ATOM	395	HA	SER	X	26	28.958	42.322	17.728	0.00	0.00
ATOM	396	CB	SER	X	26	26.842	42.658	18.030	0.00	0.00
ATOM	397	HB2	SER	X	26	26.986	43.643	17.587	0.00	0.00
ATOM	398	HB3	SER	X	26	26.406	41.986	17.290	0.00	0.00
ATOM	399	OG	SER	X	26	25.888	42.839	19.072	0.00	0.00
ATOM	400	HG	SER	X	26	25.890	42.037	19.600	0.00	0.00
ATOM	401	C	SER	X	26	28.619	42.986	19.693	0.00	0.00
ATOM	402	O	SER	X	26	28.495	42.554	20.851	0.00	0.00
ATOM	403	N	ALA	X	27	29.170	44.141	19.360	0.00	0.00
ATOM	404	H	ALA	X	27	29.301	44.407	18.395	0.00	0.00
ATOM	405	CA	ALA	X	27	29.843	44.961	20.325	0.00	0.00
ATOM	406	HA	ALA	X	27	29.188	44.842	21.187	0.00	0.00
ATOM	407	CB	ALA	X	27	31.210	44.345	20.578	0.00	0.00
ATOM	408	HB1	ALA	X	27	31.778	44.330	19.647	0.00	0.00
ATOM	409	HB2	ALA	X	27	31.149	43.351	21.021	0.00	0.00
ATOM	410	HB3	ALA	X	27	31.683	45.122	21.179	0.00	0.00
ATOM	411	C	ALA	X	27	29.963	46.518	19.858	0.00	0.00
ATOM	412	O	ALA	X	27	30.190	46.913	18.713	0.00	0.00
ATOM	413	N	PHE	X	28	29.750	47.355	20.884	0.00	0.00
ATOM	414	H	PHE	X	28	29.684	46.870	21.767	0.00	0.00
ATOM	415	CA	PHE	X	28	29.900	48.795	20.986	0.00	0.00
ATOM	416	HA	PHE	X	28	30.228	49.277	20.065	0.00	0.00
ATOM	417	CB	PHE	X	28	28.606	49.352	21.549	0.00	0.00
ATOM	418	HB2	PHE	X	28	28.501	48.957	22.559	0.00	0.00
ATOM	419	HB3	PHE	X	28	28.763	50.430	21.567	0.00	0.00
ATOM	420	CG	PHE	X	28	27.316	49.012	20.778	0.00	0.00
ATOM	421	CD1	PHE	X	28	26.719	47.709	20.861	0.00	0.00
ATOM	422	HD1	PHE	X	28	27.165	46.916	21.443	0.00	0.00
ATOM	423	CE1	PHE	X	28	25.702	47.408	19.963	0.00	0.00
ATOM	424	HE1	PHE	X	28	25.273	46.424	20.077	0.00	0.00
ATOM	425	CZ	PHE	X	28	25.233	48.385	19.058	0.00	0.00
ATOM	426	HZ	PHE	X	28	24.419	48.197	18.373	0.00	0.00
ATOM	427	CE2	PHE	X	28	25.847	49.638	18.939	0.00	0.00
ATOM	428	HE2	PHE	X	28	25.379	50.350	18.275	0.00	0.00
ATOM	429	CD2	PHE	X	28	26.919	49.951	19.812	0.00	0.00
ATOM	430	HD2	PHE	X	28	27.440	50.888	19.686	0.00	0.00
ATOM	431	C	PHE	X	28	31.052	48.893	22.028	0.00	0.00
ATOM	432	O	PHE	X	28	31.041	48.261	23.073	0.00	0.00
ATOM	433	N	LEU	X	29	32.121	49.564	21.680	0.00	0.00

ATOM	434	H	LEU	X	29	32.055	50.183	20.884	0.00	0.00
ATOM	435	CA	LEU	X	29	33.434	49.745	22.308	0.00	0.00
ATOM	436	HA	LEU	X	29	33.481	49.489	23.367	0.00	0.00
ATOM	437	CB	LEU	X	29	34.520	48.937	21.597	0.00	0.00
ATOM	438	HB2	LEU	X	29	34.596	49.380	20.605	0.00	0.00
ATOM	439	HB3	LEU	X	29	35.497	49.212	21.996	0.00	0.00
ATOM	440	CG	LEU	X	29	34.424	47.393	21.461	0.00	0.00
ATOM	441	HG	LEU	X	29	33.680	47.119	20.713	0.00	0.00
ATOM	442	CD1	LEU	X	29	35.688	46.762	20.797	0.00	0.00
ATOM	443	HD11	LEU	X	29	35.876	47.248	19.840	0.00	0.00
ATOM	444	HD12	LEU	X	29	35.502	45.690	20.736	0.00	0.00
ATOM	445	HD13	LEU	X	29	36.515	46.841	21.503	0.00	0.00
ATOM	446	CD2	LEU	X	29	34.177	46.691	22.832	0.00	0.00
ATOM	447	HD21	LEU	X	29	33.805	45.681	22.658	0.00	0.00
ATOM	448	HD22	LEU	X	29	35.110	46.574	23.382	0.00	0.00
ATOM	449	HD23	LEU	X	29	33.452	47.267	23.407	0.00	0.00
ATOM	450	C	LEU	X	29	33.776	51.230	22.317	0.00	0.00
ATOM	451	O	LEU	X	29	33.665	51.964	21.307	0.00	0.00
ATOM	452	N	GLY	X	30	34.394	51.699	23.424	0.00	0.00
ATOM	453	H	GLY	X	30	34.655	51.171	24.245	0.00	0.00
ATOM	454	CA	GLY	X	30	34.811	53.036	23.443	0.00	0.00
ATOM	455	HA2	GLY	X	30	35.547	53.195	24.231	0.00	0.00
ATOM	456	HA3	GLY	X	30	35.028	53.414	22.444	0.00	0.00
ATOM	457	C	GLY	X	30	33.653	53.993	23.841	0.00	0.00
ATOM	458	O	GLY	X	30	33.629	55.135	23.414	0.00	0.00
ATOM	459	N	ILE	X	31	32.643	53.561	24.562	0.00	0.00
ATOM	460	H	ILE	X	31	32.653	52.618	24.924	0.00	0.00
ATOM	461	CA	ILE	X	31	31.473	54.376	24.913	0.00	0.00
ATOM	462	HA	ILE	X	31	31.110	54.896	24.026	0.00	0.00
ATOM	463	CB	ILE	X	31	30.302	53.465	25.344	0.00	0.00
ATOM	464	HB	ILE	X	31	30.563	52.932	26.258	0.00	0.00
ATOM	465	CG2	ILE	X	31	29.054	54.465	25.532	0.00	0.00
ATOM	466	HG21	ILE	X	31	28.766	54.920	24.585	0.00	0.00
ATOM	467	HG22	ILE	X	31	29.237	55.299	26.210	0.00	0.00
ATOM	468	HG23	ILE	X	31	28.186	53.997	25.997	0.00	0.00
ATOM	469	CG1	ILE	X	31	29.997	52.387	24.236	0.00	0.00
ATOM	470	HG12	ILE	X	31	29.726	52.852	23.288	0.00	0.00
ATOM	471	HG13	ILE	X	31	30.906	51.809	24.068	0.00	0.00
ATOM	472	CD1	ILE	X	31	28.767	51.512	24.734	0.00	0.00
ATOM	473	HD11	ILE	X	31	27.872	52.101	24.533	0.00	0.00
ATOM	474	HD12	ILE	X	31	28.755	51.205	25.780	0.00	0.00
ATOM	475	HD13	ILE	X	31	28.655	50.602	24.146	0.00	0.00
ATOM	476	C	ILE	X	31	31.801	55.338	26.027	0.00	0.00
ATOM	477	O	ILE	X	31	32.008	54.843	27.174	0.00	0.00
ATOM	478	N	PRO	X	32	31.926	56.609	25.827	0.00	0.00
ATOM	479	CD	PRO	X	32	31.605	57.303	24.605	0.00	0.00
ATOM	480	HD2	PRO	X	32	30.719	57.057	24.021	0.00	0.00
ATOM	481	HD3	PRO	X	32	32.456	57.102	23.954	0.00	0.00
ATOM	482	CG	PRO	X	32	31.710	58.816	24.881	0.00	0.00
ATOM	483	HG2	PRO	X	32	30.767	59.344	25.022	0.00	0.00
ATOM	484	HG3	PRO	X	32	32.239	59.331	24.080	0.00	0.00
ATOM	485	CB	PRO	X	32	32.589	58.868	26.131	0.00	0.00
ATOM	486	HB2	PRO	X	32	32.259	59.701	26.751	0.00	0.00
ATOM	487	HB3	PRO	X	32	33.615	58.939	25.770	0.00	0.00
ATOM	488	CA	PRO	X	32	32.245	57.582	26.827	0.00	0.00
ATOM	489	HA	PRO	X	32	33.101	57.226	27.400	0.00	0.00
ATOM	490	C	PRO	X	32	31.011	57.743	27.744	0.00	0.00
ATOM	491	O	PRO	X	32	30.074	58.531	27.547	0.00	0.00
ATOM	492	N	PHE	X	33	30.942	57.160	28.894	0.00	0.00
ATOM	493	H	PHE	X	33	31.702	56.613	29.272	0.00	0.00
ATOM	494	CA	PHE	X	33	29.845	57.266	29.923	0.00	0.00
ATOM	495	HA	PHE	X	33	28.937	57.435	29.344	0.00	0.00
ATOM	496	CB	PHE	X	33	29.801	55.937	30.807	0.00	0.00
ATOM	497	HB2	PHE	X	33	28.871	55.986	31.373	0.00	0.00
ATOM	498	HB3	PHE	X	33	29.761	55.070	30.148	0.00	0.00
ATOM	499	CG	PHE	X	33	30.937	55.690	31.834	0.00	0.00
ATOM	500	CD1	PHE	X	33	30.817	56.193	33.187	0.00	0.00

ATOM	501	HD1	PHE	X	33	29.927	56.718	33.499	0.00	0.00
ATOM	502	CE1	PHE	X	33	31.794	55.971	34.093	0.00	0.00
ATOM	503	HE1	PHE	X	33	31.749	56.288	35.125	0.00	0.00
ATOM	504	CZ	PHE	X	33	32.941	55.283	33.733	0.00	0.00
ATOM	505	HZ	PHE	X	33	33.766	55.142	34.415	0.00	0.00
ATOM	506	CE2	PHE	X	33	33.037	54.754	32.459	0.00	0.00
ATOM	507	HE2	PHE	X	33	34.002	54.437	32.092	0.00	0.00
ATOM	508	CD2	PHE	X	33	32.149	55.017	31.490	0.00	0.00
ATOM	509	HD2	PHE	X	33	32.241	54.592	30.501	0.00	0.00
ATOM	510	C	PHE	X	33	29.894	58.527	30.830	0.00	0.00
ATOM	511	O	PHE	X	33	28.841	58.857	31.385	0.00	0.00
ATOM	512	N	ALA	X	34	31.063	59.081	31.100	0.00	0.00
ATOM	513	H	ALA	X	34	31.875	58.668	30.663	0.00	0.00
ATOM	514	CA	ALA	X	34	31.302	60.240	31.917	0.00	0.00
ATOM	515	HA	ALA	X	34	30.501	60.553	32.587	0.00	0.00
ATOM	516	CB	ALA	X	34	32.392	59.841	32.904	0.00	0.00
ATOM	517	HB1	ALA	X	34	32.678	60.666	33.556	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.214	59.536	32.257	0.00	0.00
ATOM	519	HB3	ALA	X	34	32.134	58.975	33.515	0.00	0.00
ATOM	520	C	ALA	X	34	31.861	61.351	30.933	0.00	0.00
ATOM	521	O	ALA	X	34	32.240	61.069	29.770	0.00	0.00
ATOM	522	N	GLU	X	35	31.874	62.586	31.438	0.00	0.00
ATOM	523	H	GLU	X	35	31.686	62.615	32.430	0.00	0.00
ATOM	524	CA	GLU	X	35	32.768	63.578	30.911	0.00	0.00
ATOM	525	HA	GLU	X	35	32.621	63.570	29.831	0.00	0.00
ATOM	526	CB	GLU	X	35	32.443	64.930	31.532	0.00	0.00
ATOM	527	HB2	GLU	X	35	32.469	64.839	32.618	0.00	0.00
ATOM	528	HB3	GLU	X	35	33.236	65.583	31.168	0.00	0.00
ATOM	529	CG	GLU	X	35	31.026	65.530	31.152	0.00	0.00
ATOM	530	HG2	GLU	X	35	30.305	64.818	31.554	0.00	0.00
ATOM	531	HG3	GLU	X	35	30.954	66.494	31.655	0.00	0.00
ATOM	532	CD	GLU	X	35	30.897	65.838	29.659	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.041	65.293	28.979	0.00	0.00
ATOM	534	OE2	GLU	X	35	31.795	66.593	29.144	0.00	0.00
ATOM	535	C	GLU	X	35	34.207	63.227	31.307	0.00	0.00
ATOM	536	O	GLU	X	35	34.409	62.657	32.415	0.00	0.00
ATOM	537	N	PRO	X	36	35.214	63.652	30.539	0.00	0.00
ATOM	538	CD	PRO	X	36	35.124	64.351	29.257	0.00	0.00
ATOM	539	HD2	PRO	X	36	34.525	65.255	29.366	0.00	0.00
ATOM	540	HD3	PRO	X	36	34.554	63.854	28.472	0.00	0.00
ATOM	541	CG	PRO	X	36	36.526	64.663	28.812	0.00	0.00
ATOM	542	HG2	PRO	X	36	36.833	65.578	29.320	0.00	0.00
ATOM	543	HG3	PRO	X	36	36.491	64.688	27.723	0.00	0.00
ATOM	544	CB	PRO	X	36	37.370	63.530	29.464	0.00	0.00
ATOM	545	HB2	PRO	X	36	38.342	63.945	29.730	0.00	0.00
ATOM	546	HB3	PRO	X	36	37.368	62.602	28.893	0.00	0.00
ATOM	547	CA	PRO	X	36	36.623	63.246	30.739	0.00	0.00
ATOM	548	HA	PRO	X	36	36.516	62.173	30.897	0.00	0.00
ATOM	549	C	PRO	X	36	37.260	63.904	32.038	0.00	0.00
ATOM	550	O	PRO	X	36	37.123	65.085	32.201	0.00	0.00
ATOM	551	N	PRO	X	37	38.021	63.114	32.869	0.00	0.00
ATOM	552	CD	PRO	X	37	38.213	61.653	32.687	0.00	0.00
ATOM	553	HD2	PRO	X	37	38.869	61.420	31.848	0.00	0.00
ATOM	554	HD3	PRO	X	37	37.287	61.081	32.634	0.00	0.00
ATOM	555	CG	PRO	X	37	38.929	61.184	34.043	0.00	0.00
ATOM	556	HG2	PRO	X	37	40.007	61.270	33.902	0.00	0.00
ATOM	557	HG3	PRO	X	37	38.523	60.200	34.281	0.00	0.00
ATOM	558	CB	PRO	X	37	38.537	62.300	35.011	0.00	0.00
ATOM	559	HB2	PRO	X	37	39.025	62.396	35.981	0.00	0.00
ATOM	560	HB3	PRO	X	37	37.492	62.147	35.282	0.00	0.00
ATOM	561	CA	PRO	X	37	38.414	63.559	34.162	0.00	0.00
ATOM	562	HA	PRO	X	37	37.624	64.205	34.545	0.00	0.00
ATOM	563	C	PRO	X	37	39.744	64.322	34.073	0.00	0.00
ATOM	564	O	PRO	X	37	40.470	64.418	35.052	0.00	0.00
ATOM	565	N	MET	X	38	40.064	64.920	32.934	0.00	0.00
ATOM	566	H	MET	X	38	39.359	64.932	32.211	0.00	0.00
ATOM	567	CA	MET	X	38	41.302	65.691	32.718	0.00	0.00

ATOM	568	HA	MET	X	38	42.132	65.019	32.937	0.00	0.00
ATOM	569	CB	MET	X	38	41.434	65.934	31.196	0.00	0.00
ATOM	570	HB2	MET	X	38	42.347	66.514	31.066	0.00	0.00
ATOM	571	HB3	MET	X	38	41.554	64.984	30.675	0.00	0.00
ATOM	572	CG	MET	X	38	40.320	66.690	30.613	0.00	0.00
ATOM	573	HG2	MET	X	38	39.324	66.294	30.812	0.00	0.00
ATOM	574	HG3	MET	X	38	40.210	67.583	31.229	0.00	0.00
ATOM	575	SD	MET	X	38	40.387	67.225	28.924	0.00	0.00
ATOM	576	CE	MET	X	38	40.129	65.648	28.222	0.00	0.00
ATOM	577	HE1	MET	X	38	40.455	65.414	27.208	0.00	0.00
ATOM	578	HE2	MET	X	38	40.540	64.855	28.847	0.00	0.00
ATOM	579	HE3	MET	X	38	39.059	65.441	28.205	0.00	0.00
ATOM	580	C	MET	X	38	41.365	66.997	33.635	0.00	0.00
ATOM	581	O	MET	X	38	40.381	67.710	33.958	0.00	0.00
ATOM	582	N	GLY	X	39	42.623	67.395	33.952	0.00	0.00
ATOM	583	H	GLY	X	39	43.421	66.777	33.920	0.00	0.00
ATOM	584	CA	GLY	X	39	42.989	68.773	34.263	0.00	0.00
ATOM	585	HA2	GLY	X	39	44.066	68.939	34.223	0.00	0.00
ATOM	586	HA3	GLY	X	39	42.568	69.423	33.496	0.00	0.00
ATOM	587	C	GLY	X	39	42.518	69.185	35.696	0.00	0.00
ATOM	588	O	GLY	X	39	42.779	68.394	36.564	0.00	0.00
ATOM	589	N	PRO	X	40	41.707	70.198	35.915	0.00	0.00
ATOM	590	CD	PRO	X	40	41.172	71.021	34.820	0.00	0.00
ATOM	591	HD2	PRO	X	40	40.911	70.393	33.969	0.00	0.00
ATOM	592	HD3	PRO	X	40	41.874	71.817	34.568	0.00	0.00
ATOM	593	CG	PRO	X	40	39.910	71.729	35.405	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.026	71.113	35.233	0.00	0.00
ATOM	595	HG3	PRO	X	40	39.758	72.664	34.866	0.00	0.00
ATOM	596	CB	PRO	X	40	40.313	71.800	36.868	0.00	0.00
ATOM	597	HB2	PRO	X	40	39.447	71.855	37.527	0.00	0.00
ATOM	598	HB3	PRO	X	40	41.010	72.631	36.986	0.00	0.00
ATOM	599	CA	PRO	X	40	41.204	70.578	37.201	0.00	0.00
ATOM	600	HA	PRO	X	40	42.032	70.838	37.861	0.00	0.00
ATOM	601	C	PRO	X	40	40.447	69.412	37.859	0.00	0.00
ATOM	602	O	PRO	X	40	40.444	69.367	39.071	0.00	0.00
ATOM	603	N	ARG	X	41	39.775	68.541	37.025	0.00	0.00
ATOM	604	H	ARG	X	41	39.935	68.572	36.029	0.00	0.00
ATOM	605	CA	ARG	X	41	39.147	67.299	37.476	0.00	0.00
ATOM	606	HA	ARG	X	41	38.476	67.502	38.310	0.00	0.00
ATOM	607	CB	ARG	X	41	38.336	66.746	36.328	0.00	0.00
ATOM	608	HB2	ARG	X	41	38.977	66.535	35.472	0.00	0.00
ATOM	609	HB3	ARG	X	41	37.952	65.790	36.684	0.00	0.00
ATOM	610	CG	ARG	X	41	37.101	67.585	35.918	0.00	0.00
ATOM	611	HG2	ARG	X	41	36.588	67.791	36.858	0.00	0.00
ATOM	612	HG3	ARG	X	41	37.526	68.532	35.586	0.00	0.00
ATOM	613	CD	ARG	X	41	36.275	66.898	34.781	0.00	0.00
ATOM	614	HD2	ARG	X	41	36.890	66.930	33.882	0.00	0.00
ATOM	615	HD3	ARG	X	41	36.060	65.851	34.996	0.00	0.00
ATOM	616	NE	ARG	X	41	34.920	67.497	34.613	0.00	0.00
ATOM	617	HE	ARG	X	41	34.250	67.466	35.367	0.00	0.00
ATOM	618	CZ	ARG	X	41	34.583	68.176	33.485	0.00	0.00
ATOM	619	NH1	ARG	X	41	35.456	68.554	32.656	0.00	0.00
ATOM	620	HH11	ARG	X	41	36.422	68.528	32.951	0.00	0.00
ATOM	621	HH12	ARG	X	41	35.216	69.103	31.842	0.00	0.00
ATOM	622	NH2	ARG	X	41	33.292	68.347	33.237	0.00	0.00
ATOM	623	HH21	ARG	X	41	32.612	68.248	33.977	0.00	0.00
ATOM	624	HH22	ARG	X	41	32.932	68.676	32.352	0.00	0.00
ATOM	625	C	ARG	X	41	40.066	66.127	37.902	0.00	0.00
ATOM	626	O	ARG	X	41	39.558	65.177	38.562	0.00	0.00
ATOM	627	N	ARG	X	42	41.389	66.216	37.676	0.00	0.00
ATOM	628	H	ARG	X	42	41.711	67.041	37.190	0.00	0.00
ATOM	629	CA	ARG	X	42	42.308	65.220	38.138	0.00	0.00
ATOM	630	HA	ARG	X	42	41.982	64.210	37.889	0.00	0.00
ATOM	631	CB	ARG	X	42	43.706	65.446	37.475	0.00	0.00
ATOM	632	HB2	ARG	X	42	43.638	65.308	36.396	0.00	0.00
ATOM	633	HB3	ARG	X	42	43.992	66.489	37.610	0.00	0.00
ATOM	634	CG	ARG	X	42	44.727	64.464	37.940	0.00	0.00

ATOM	635	HG2	ARG	X	42	44.750	64.459	39.030	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.496	63.443	37.636	0.00	0.00
ATOM	637	CD	ARG	X	42	46.105	64.951	37.542	0.00	0.00
ATOM	638	HD2	ARG	X	42	46.289	65.950	37.938	0.00	0.00
ATOM	639	HD3	ARG	X	42	46.745	64.167	37.947	0.00	0.00
ATOM	640	NE	ARG	X	42	46.336	65.065	36.059	0.00	0.00
ATOM	641	HE	ARG	X	42	45.652	64.702	35.411	0.00	0.00
ATOM	642	CZ	ARG	X	42	47.204	65.971	35.532	0.00	0.00
ATOM	643	NH1	ARG	X	42	48.302	66.375	36.168	0.00	0.00
ATOM	644	HH11	ARG	X	42	48.599	66.041	37.073	0.00	0.00
ATOM	645	HH12	ARG	X	42	48.929	67.002	35.683	0.00	0.00
ATOM	646	NH2	ARG	X	42	46.941	66.415	34.331	0.00	0.00
ATOM	647	HH21	ARG	X	42	46.073	66.219	33.854	0.00	0.00
ATOM	648	HH22	ARG	X	42	47.493	67.166	33.942	0.00	0.00
ATOM	649	C	ARG	X	42	42.343	65.178	39.669	0.00	0.00
ATOM	650	O	ARG	X	42	42.407	66.217	40.309	0.00	0.00
ATOM	651	N	PHE	X	43	42.116	63.962	40.211	0.00	0.00
ATOM	652	H	PHE	X	43	42.045	63.137	39.632	0.00	0.00
ATOM	653	CA	PHE	X	43	42.052	63.612	41.639	0.00	0.00
ATOM	654	HA	PHE	X	43	42.416	62.584	41.644	0.00	0.00
ATOM	655	CB	PHE	X	43	43.055	64.284	42.567	0.00	0.00
ATOM	656	HB2	PHE	X	43	42.632	65.247	42.855	0.00	0.00
ATOM	657	HB3	PHE	X	43	43.162	63.678	43.466	0.00	0.00
ATOM	658	CG	PHE	X	43	44.454	64.459	41.997	0.00	0.00
ATOM	659	CD1	PHE	X	43	45.084	63.271	41.516	0.00	0.00
ATOM	660	HD1	PHE	X	43	44.592	62.332	41.723	0.00	0.00
ATOM	661	CE1	PHE	X	43	46.407	63.314	41.082	0.00	0.00
ATOM	662	HE1	PHE	X	43	46.950	62.429	40.785	0.00	0.00
ATOM	663	CZ	PHE	X	43	47.062	64.524	41.029	0.00	0.00
ATOM	664	HZ	PHE	X	43	48.108	64.602	40.772	0.00	0.00
ATOM	665	CE2	PHE	X	43	46.430	65.709	41.392	0.00	0.00
ATOM	666	HE2	PHE	X	43	47.028	66.607	41.350	0.00	0.00
ATOM	667	CD2	PHE	X	43	45.107	65.712	41.944	0.00	0.00
ATOM	668	HD2	PHE	X	43	44.662	66.609	42.347	0.00	0.00
ATOM	669	C	PHE	X	43	40.663	63.717	42.218	0.00	0.00
ATOM	670	O	PHE	X	43	40.409	63.166	43.298	0.00	0.00
ATOM	671	N	LEU	X	44	39.635	64.306	41.566	0.00	0.00
ATOM	672	H	LEU	X	44	39.864	64.695	40.663	0.00	0.00
ATOM	673	CA	LEU	X	44	38.318	64.472	42.151	0.00	0.00
ATOM	674	HA	LEU	X	44	38.343	64.362	43.236	0.00	0.00
ATOM	675	CB	LEU	X	44	37.908	65.931	41.917	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.972	66.158	40.853	0.00	0.00
ATOM	677	HB3	LEU	X	44	36.851	65.977	42.179	0.00	0.00
ATOM	678	CG	LEU	X	44	38.642	67.023	42.701	0.00	0.00
ATOM	679	HG	LEU	X	44	39.717	66.848	42.680	0.00	0.00
ATOM	680	CD1	LEU	X	44	38.513	68.493	42.172	0.00	0.00
ATOM	681	HD11	LEU	X	44	39.084	68.498	41.244	0.00	0.00
ATOM	682	HD12	LEU	X	44	38.963	69.225	42.843	0.00	0.00
ATOM	683	HD13	LEU	X	44	37.477	68.755	41.960	0.00	0.00
ATOM	684	CD2	LEU	X	44	38.150	67.140	44.183	0.00	0.00
ATOM	685	HD21	LEU	X	44	38.557	66.300	44.746	0.00	0.00
ATOM	686	HD22	LEU	X	44	38.344	68.104	44.651	0.00	0.00
ATOM	687	HD23	LEU	X	44	37.081	67.018	44.352	0.00	0.00
ATOM	688	C	LEU	X	44	37.264	63.440	41.588	0.00	0.00
ATOM	689	O	LEU	X	44	37.487	62.783	40.555	0.00	0.00
ATOM	690	N	PRO	X	45	36.138	63.315	42.302	0.00	0.00
ATOM	691	CD	PRO	X	45	35.936	63.764	43.687	0.00	0.00
ATOM	692	HD2	PRO	X	45	35.660	64.816	43.616	0.00	0.00
ATOM	693	HD3	PRO	X	45	36.840	63.585	44.269	0.00	0.00
ATOM	694	CG	PRO	X	45	34.864	62.791	44.174	0.00	0.00
ATOM	695	HG2	PRO	X	45	34.283	63.046	45.061	0.00	0.00
ATOM	696	HG3	PRO	X	45	35.272	61.790	44.311	0.00	0.00
ATOM	697	CB	PRO	X	45	33.944	62.688	42.972	0.00	0.00
ATOM	698	HB2	PRO	X	45	33.411	63.633	42.876	0.00	0.00
ATOM	699	HB3	PRO	X	45	33.262	61.852	43.129	0.00	0.00
ATOM	700	CA	PRO	X	45	35.037	62.574	41.865	0.00	0.00
ATOM	701	HA	PRO	X	45	35.372	61.545	41.991	0.00	0.00

ATOM	702	C	PRO	X	45	34.455	62.792	40.422	0.00	0.00
ATOM	703	O	PRO	X	45	34.422	63.974	40.121	0.00	0.00
ATOM	704	N	PRO	X	46	33.888	61.835	39.685	0.00	0.00
ATOM	705	CD	PRO	X	46	33.631	60.442	40.107	0.00	0.00
ATOM	706	HD2	PRO	X	46	32.883	60.451	40.900	0.00	0.00
ATOM	707	HD3	PRO	X	46	34.543	60.035	40.544	0.00	0.00
ATOM	708	CG	PRO	X	46	33.035	59.718	38.895	0.00	0.00
ATOM	709	HG2	PRO	X	46	31.964	59.917	38.870	0.00	0.00
ATOM	710	HG3	PRO	X	46	33.266	58.653	38.901	0.00	0.00
ATOM	711	CB	PRO	X	46	33.640	60.489	37.750	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.171	60.271	36.790	0.00	0.00
ATOM	713	HB3	PRO	X	46	34.692	60.216	37.676	0.00	0.00
ATOM	714	CA	PRO	X	46	33.559	61.979	38.249	0.00	0.00
ATOM	715	HA	PRO	X	46	34.344	62.567	37.775	0.00	0.00
ATOM	716	C	PRO	X	46	32.220	62.646	38.140	0.00	0.00
ATOM	717	O	PRO	X	46	31.428	62.655	39.076	0.00	0.00
ATOM	718	N	GLU	X	47	31.797	63.058	36.914	0.00	0.00
ATOM	719	H	GLU	X	47	32.435	62.930	36.142	0.00	0.00
ATOM	720	CA	GLU	X	47	30.400	63.422	36.620	0.00	0.00
ATOM	721	HA	GLU	X	47	29.780	63.132	37.469	0.00	0.00
ATOM	722	CB	GLU	X	47	30.343	64.971	36.475	0.00	0.00
ATOM	723	HB2	GLU	X	47	29.345	65.400	36.383	0.00	0.00
ATOM	724	HB3	GLU	X	47	30.697	65.324	37.444	0.00	0.00
ATOM	725	CG	GLU	X	47	31.462	65.577	35.510	0.00	0.00
ATOM	726	HG2	GLU	X	47	32.433	65.127	35.719	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.186	65.527	34.457	0.00	0.00
ATOM	728	CD	GLU	X	47	31.810	67.060	35.756	0.00	0.00
ATOM	729	OE1	GLU	X	47	31.160	67.939	35.108	0.00	0.00
ATOM	730	OE2	GLU	X	47	32.594	67.435	36.644	0.00	0.00
ATOM	731	C	GLU	X	47	29.992	62.715	35.306	0.00	0.00
ATOM	732	O	GLU	X	47	30.779	62.402	34.472	0.00	0.00
ATOM	733	N	PRO	X	48	28.739	62.389	35.145	0.00	0.00
ATOM	734	CD	PRO	X	48	27.693	62.613	36.135	0.00	0.00
ATOM	735	HD2	PRO	X	48	27.599	63.681	36.332	0.00	0.00
ATOM	736	HD3	PRO	X	48	27.896	61.914	36.946	0.00	0.00
ATOM	737	CG	PRO	X	48	26.390	62.332	35.450	0.00	0.00
ATOM	738	HG2	PRO	X	48	26.023	63.301	35.111	0.00	0.00
ATOM	739	HG3	PRO	X	48	25.735	61.837	36.166	0.00	0.00
ATOM	740	CB	PRO	X	48	26.767	61.444	34.308	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.085	61.711	33.502	0.00	0.00
ATOM	742	HB3	PRO	X	48	26.588	60.417	34.625	0.00	0.00
ATOM	743	CA	PRO	X	48	28.214	61.636	33.932	0.00	0.00
ATOM	744	HA	PRO	X	48	28.585	60.612	33.895	0.00	0.00
ATOM	745	C	PRO	X	48	28.262	62.472	32.581	0.00	0.00
ATOM	746	O	PRO	X	48	28.214	63.705	32.593	0.00	0.00
ATOM	747	N	LYS	X	49	28.270	61.783	31.437	0.00	0.00
ATOM	748	H	LYS	X	49	28.542	60.816	31.535	0.00	0.00
ATOM	749	CA	LYS	X	49	28.469	62.348	30.050	0.00	0.00
ATOM	750	HA	LYS	X	49	29.361	62.974	30.064	0.00	0.00
ATOM	751	CB	LYS	X	49	28.655	61.150	28.999	0.00	0.00
ATOM	752	HB2	LYS	X	49	29.625	60.744	29.286	0.00	0.00
ATOM	753	HB3	LYS	X	49	27.831	60.495	29.280	0.00	0.00
ATOM	754	CG	LYS	X	49	28.548	61.485	27.543	0.00	0.00
ATOM	755	HG2	LYS	X	49	28.569	60.544	26.993	0.00	0.00
ATOM	756	HG3	LYS	X	49	27.542	61.849	27.334	0.00	0.00
ATOM	757	CD	LYS	X	49	29.691	62.424	26.990	0.00	0.00
ATOM	758	HD2	LYS	X	49	29.649	63.373	27.526	0.00	0.00
ATOM	759	HD3	LYS	X	49	30.640	61.943	27.229	0.00	0.00
ATOM	760	CE	LYS	X	49	29.471	62.447	25.432	0.00	0.00
ATOM	761	HE2	LYS	X	49	30.386	62.117	24.939	0.00	0.00
ATOM	762	HE3	LYS	X	49	28.759	61.645	25.236	0.00	0.00
ATOM	763	NZ	LYS	X	49	28.915	63.716	24.861	0.00	0.00
ATOM	764	HZ1	LYS	X	49	28.093	63.855	25.431	0.00	0.00
ATOM	765	HZ2	LYS	X	49	29.432	64.560	25.066	0.00	0.00
ATOM	766	HZ3	LYS	X	49	28.718	63.709	23.870	0.00	0.00
ATOM	767	C	LYS	X	49	27.192	63.133	29.674	0.00	0.00
ATOM	768	O	LYS	X	49	26.054	62.631	29.814	0.00	0.00

ATOM	769	N	GLN	X	50	27.435	64.350	29.171	0.00	0.00
ATOM	770	H	GLN	X	50	28.336	64.803	29.236	0.00	0.00
ATOM	771	CA	GLN	X	50	26.399	65.137	28.578	0.00	0.00
ATOM	772	HA	GLN	X	50	25.651	65.160	29.371	0.00	0.00
ATOM	773	CB	GLN	X	50	26.974	66.584	28.357	0.00	0.00
ATOM	774	HB2	GLN	X	50	27.356	66.993	29.292	0.00	0.00
ATOM	775	HB3	GLN	X	50	27.789	66.471	27.642	0.00	0.00
ATOM	776	CG	GLN	X	50	25.996	67.540	27.734	0.00	0.00
ATOM	777	HG2	GLN	X	50	25.687	67.148	26.766	0.00	0.00
ATOM	778	HG3	GLN	X	50	25.169	67.576	28.444	0.00	0.00
ATOM	779	CD	GLN	X	50	26.474	68.995	27.578	0.00	0.00
ATOM	780	OE1	GLN	X	50	25.947	70.009	28.030	0.00	0.00
ATOM	781	NE2	GLN	X	50	27.538	69.091	26.821	0.00	0.00
ATOM	782	HE21	GLN	X	50	27.924	70.023	26.772	0.00	0.00
ATOM	783	HE22	GLN	X	50	27.801	68.306	26.243	0.00	0.00
ATOM	784	C	GLN	X	50	25.854	64.542	27.275	0.00	0.00
ATOM	785	O	GLN	X	50	26.639	64.233	26.372	0.00	0.00
ATOM	786	N	PRO	X	51	24.521	64.330	27.162	0.00	0.00
ATOM	787	CD	PRO	X	51	23.548	64.257	28.245	0.00	0.00
ATOM	788	HD2	PRO	X	51	23.451	65.247	28.692	0.00	0.00
ATOM	789	HD3	PRO	X	51	23.890	63.514	28.965	0.00	0.00
ATOM	790	CG	PRO	X	51	22.216	63.822	27.517	0.00	0.00
ATOM	791	HG2	PRO	X	51	21.343	64.254	28.005	0.00	0.00
ATOM	792	HG3	PRO	X	51	22.041	62.752	27.632	0.00	0.00
ATOM	793	CB	PRO	X	51	22.400	64.231	26.066	0.00	0.00
ATOM	794	HB2	PRO	X	51	22.043	65.252	25.930	0.00	0.00
ATOM	795	HB3	PRO	X	51	21.826	63.586	25.400	0.00	0.00
ATOM	796	CA	PRO	X	51	23.895	64.003	25.887	0.00	0.00
ATOM	797	HA	PRO	X	51	23.942	62.923	25.752	0.00	0.00
ATOM	798	C	PRO	X	51	24.397	64.801	24.692	0.00	0.00
ATOM	799	O	PRO	X	51	24.770	65.968	24.833	0.00	0.00
ATOM	800	N	TRP	X	52	24.286	64.184	23.474	0.00	0.00
ATOM	801	H	TRP	X	52	23.887	63.262	23.368	0.00	0.00
ATOM	802	CA	TRP	X	52	24.871	64.595	22.216	0.00	0.00
ATOM	803	HA	TRP	X	52	25.337	65.579	22.248	0.00	0.00
ATOM	804	CB	TRP	X	52	26.058	63.763	21.903	0.00	0.00
ATOM	805	HB2	TRP	X	52	26.554	64.223	21.048	0.00	0.00
ATOM	806	HB3	TRP	X	52	26.828	63.765	22.675	0.00	0.00
ATOM	807	CG	TRP	X	52	25.844	62.335	21.712	0.00	0.00
ATOM	808	CD1	TRP	X	52	25.479	61.745	20.536	0.00	0.00
ATOM	809	HD1	TRP	X	52	25.274	62.294	19.629	0.00	0.00
ATOM	810	NE1	TRP	X	52	25.118	60.402	20.713	0.00	0.00
ATOM	811	HE1	TRP	X	52	24.832	59.820	19.939	0.00	0.00
ATOM	812	CE2	TRP	X	52	25.269	59.993	21.976	0.00	0.00
ATOM	813	CZ2	TRP	X	52	24.955	58.825	22.637	0.00	0.00
ATOM	814	HZ2	TRP	X	52	24.502	57.951	22.191	0.00	0.00
ATOM	815	CH2	TRP	X	52	25.087	58.773	24.057	0.00	0.00
ATOM	816	HH2	TRP	X	52	24.795	57.903	24.627	0.00	0.00
ATOM	817	CZ3	TRP	X	52	25.563	59.926	24.709	0.00	0.00
ATOM	818	HZ3	TRP	X	52	25.739	59.858	25.772	0.00	0.00
ATOM	819	CE3	TRP	X	52	25.804	61.101	24.003	0.00	0.00
ATOM	820	HE3	TRP	X	52	26.157	61.980	24.521	0.00	0.00
ATOM	821	CD2	TRP	X	52	25.738	61.172	22.628	0.00	0.00
ATOM	822	C	TRP	X	52	23.877	64.589	20.946	0.00	0.00
ATOM	823	O	TRP	X	52	22.834	63.957	21.141	0.00	0.00
ATOM	824	N	SER	X	53	24.134	65.311	19.861	0.00	0.00
ATOM	825	H	SER	X	53	24.925	65.939	19.848	0.00	0.00
ATOM	826	CA	SER	X	53	23.256	65.290	18.657	0.00	0.00
ATOM	827	HA	SER	X	53	22.206	65.046	18.822	0.00	0.00
ATOM	828	CB	SER	X	53	23.353	66.626	17.995	0.00	0.00
ATOM	829	HB2	SER	X	53	24.342	66.751	17.553	0.00	0.00
ATOM	830	HB3	SER	X	53	22.434	66.610	17.409	0.00	0.00
ATOM	831	OG	SER	X	53	23.249	67.798	18.770	0.00	0.00
ATOM	832	HG	SER	X	53	23.546	68.572	18.284	0.00	0.00
ATOM	833	C	SER	X	53	23.793	64.254	17.644	0.00	0.00
ATOM	834	O	SER	X	53	25.011	64.143	17.447	0.00	0.00
ATOM	835	N	GLY	X	54	22.919	63.475	16.988	0.00	0.00

ATOM	836	H	GLY	X	54	21.965	63.537	17.312	0.00	0.00
ATOM	837	CA	GLY	X	54	23.224	62.382	16.017	0.00	0.00
ATOM	838	HA2	GLY	X	54	22.429	62.118	15.320	0.00	0.00
ATOM	839	HA3	GLY	X	54	24.001	62.827	15.395	0.00	0.00
ATOM	840	C	GLY	X	54	23.813	61.140	16.689	0.00	0.00
ATOM	841	O	GLY	X	54	23.584	60.866	17.875	0.00	0.00
ATOM	842	N	VAL	X	55	24.427	60.367	15.804	0.00	0.00
ATOM	843	H	VAL	X	55	24.677	60.798	14.925	0.00	0.00
ATOM	844	CA	VAL	X	55	25.106	59.124	16.090	0.00	0.00
ATOM	845	HA	VAL	X	55	24.535	58.738	16.935	0.00	0.00
ATOM	846	CB	VAL	X	55	25.026	58.137	14.894	0.00	0.00
ATOM	847	HB	VAL	X	55	25.780	58.398	14.152	0.00	0.00
ATOM	848	CG1	VAL	X	55	25.447	56.693	15.357	0.00	0.00
ATOM	849	HG11	VAL	X	55	26.359	56.691	15.955	0.00	0.00
ATOM	850	HG12	VAL	X	55	24.663	56.246	15.968	0.00	0.00
ATOM	851	HG13	VAL	X	55	25.554	56.056	14.480	0.00	0.00
ATOM	852	CG2	VAL	X	55	23.689	57.903	14.156	0.00	0.00
ATOM	853	HG21	VAL	X	55	23.249	58.883	13.972	0.00	0.00
ATOM	854	HG22	VAL	X	55	22.935	57.395	14.757	0.00	0.00
ATOM	855	HG23	VAL	X	55	23.850	57.462	13.172	0.00	0.00
ATOM	856	C	VAL	X	55	26.552	59.310	16.483	0.00	0.00
ATOM	857	O	VAL	X	55	27.380	59.738	15.705	0.00	0.00
ATOM	858	N	VAL	X	56	26.902	58.707	17.669	0.00	0.00
ATOM	859	H	VAL	X	56	26.176	58.345	18.270	0.00	0.00
ATOM	860	CA	VAL	X	56	28.293	58.559	18.050	0.00	0.00
ATOM	861	HA	VAL	X	56	28.868	59.306	17.502	0.00	0.00
ATOM	862	CB	VAL	X	56	28.454	58.912	19.517	0.00	0.00
ATOM	863	HB	VAL	X	56	27.601	58.460	20.024	0.00	0.00
ATOM	864	CG1	VAL	X	56	29.731	58.419	20.161	0.00	0.00
ATOM	865	HG11	VAL	X	56	30.616	58.815	19.662	0.00	0.00
ATOM	866	HG12	VAL	X	56	29.913	58.891	21.126	0.00	0.00
ATOM	867	HG13	VAL	X	56	29.748	57.335	20.273	0.00	0.00
ATOM	868	CG2	VAL	X	56	28.444	60.451	19.673	0.00	0.00
ATOM	869	HG21	VAL	X	56	27.665	60.885	19.046	0.00	0.00
ATOM	870	HG22	VAL	X	56	29.370	60.892	19.305	0.00	0.00
ATOM	871	HG23	VAL	X	56	28.304	60.761	20.708	0.00	0.00
ATOM	872	C	VAL	X	56	28.845	57.269	17.563	0.00	0.00
ATOM	873	O	VAL	X	56	28.236	56.230	17.763	0.00	0.00
ATOM	874	N	ASP	X	57	30.043	57.332	16.998	0.00	0.00
ATOM	875	H	ASP	X	57	30.445	58.252	16.894	0.00	0.00
ATOM	876	CA	ASP	X	57	30.876	56.172	16.781	0.00	0.00
ATOM	877	HA	ASP	X	57	30.263	55.441	16.253	0.00	0.00
ATOM	878	CB	ASP	X	57	32.014	56.616	15.873	0.00	0.00
ATOM	879	HB2	ASP	X	57	31.572	57.045	14.974	0.00	0.00
ATOM	880	HB3	ASP	X	57	32.568	57.462	16.281	0.00	0.00
ATOM	881	CG	ASP	X	57	32.960	55.472	15.462	0.00	0.00
ATOM	882	OD1	ASP	X	57	32.429	54.324	15.338	0.00	0.00
ATOM	883	OD2	ASP	X	57	34.176	55.732	15.020	0.00	0.00
ATOM	884	C	ASP	X	57	31.481	55.554	18.145	0.00	0.00
ATOM	885	O	ASP	X	57	32.368	56.081	18.793	0.00	0.00
ATOM	886	N	ALA	X	58	30.890	54.390	18.450	0.00	0.00
ATOM	887	H	ALA	X	58	30.053	54.229	17.909	0.00	0.00
ATOM	888	CA	ALA	X	58	31.330	53.357	19.355	0.00	0.00
ATOM	889	HA	ALA	X	58	32.188	53.733	19.912	0.00	0.00
ATOM	890	CB	ALA	X	58	30.346	53.157	20.443	0.00	0.00
ATOM	891	HB1	ALA	X	58	29.317	53.228	20.091	0.00	0.00
ATOM	892	HB2	ALA	X	58	30.386	54.034	21.090	0.00	0.00
ATOM	893	HB3	ALA	X	58	30.428	52.194	20.947	0.00	0.00
ATOM	894	C	ALA	X	58	31.883	52.088	18.683	0.00	0.00
ATOM	895	O	ALA	X	58	31.591	50.974	19.181	0.00	0.00
ATOM	896	N	THR	X	59	32.600	52.235	17.540	0.00	0.00
ATOM	897	H	THR	X	59	32.744	53.130	17.095	0.00	0.00
ATOM	898	CA	THR	X	59	33.165	50.995	16.890	0.00	0.00
ATOM	899	HA	THR	X	59	32.538	50.128	17.096	0.00	0.00
ATOM	900	CB	THR	X	59	33.169	51.081	15.379	0.00	0.00
ATOM	901	HB	THR	X	59	33.744	50.296	14.889	0.00	0.00
ATOM	902	CG2	THR	X	59	31.774	51.209	14.714	0.00	0.00

ATOM	903	HG21	THR	X	59	31.877	51.263	13.630	0.00	0.00
ATOM	904	HG22	THR	X	59	31.245	52.140	14.919	0.00	0.00
ATOM	905	HG23	THR	X	59	31.177	50.335	14.975	0.00	0.00
ATOM	906	OG1	THR	X	59	33.895	52.259	15.079	0.00	0.00
ATOM	907	HG1	THR	X	59	33.247	52.954	15.219	0.00	0.00
ATOM	908	C	THR	X	59	34.493	50.481	17.415	0.00	0.00
ATOM	909	O	THR	X	59	34.854	49.355	17.017	0.00	0.00
ATOM	910	N	THR	X	60	35.244	51.206	18.189	0.00	0.00
ATOM	911	H	THR	X	60	35.062	52.183	18.365	0.00	0.00
ATOM	912	CA	THR	X	60	36.584	50.752	18.630	0.00	0.00
ATOM	913	HA	THR	X	60	36.492	49.712	18.945	0.00	0.00
ATOM	914	CB	THR	X	60	37.658	50.802	17.533	0.00	0.00
ATOM	915	HB	THR	X	60	37.168	50.228	16.746	0.00	0.00
ATOM	916	CG2	THR	X	60	38.006	52.194	17.010	0.00	0.00
ATOM	917	HG21	THR	X	60	38.233	52.826	17.869	0.00	0.00
ATOM	918	HG22	THR	X	60	37.189	52.598	16.413	0.00	0.00
ATOM	919	HG23	THR	X	60	38.803	52.109	16.272	0.00	0.00
ATOM	920	OG1	THR	X	60	38.924	50.224	17.917	0.00	0.00
ATOM	921	HG1	THR	X	60	39.375	50.163	17.072	0.00	0.00
ATOM	922	C	THR	X	60	36.982	51.522	19.857	0.00	0.00
ATOM	923	O	THR	X	60	36.460	52.655	20.069	0.00	0.00
ATOM	924	N	PHE	X	61	37.851	50.890	20.696	0.00	0.00
ATOM	925	H	PHE	X	61	38.217	50.029	20.316	0.00	0.00
ATOM	926	CA	PHE	X	61	38.551	51.565	21.851	0.00	0.00
ATOM	927	HA	PHE	X	61	37.847	51.750	22.662	0.00	0.00
ATOM	928	CB	PHE	X	61	39.668	50.694	22.395	0.00	0.00
ATOM	929	HB2	PHE	X	61	40.466	50.525	21.672	0.00	0.00
ATOM	930	HB3	PHE	X	61	39.989	51.134	23.339	0.00	0.00
ATOM	931	CG	PHE	X	61	39.165	49.325	22.836	0.00	0.00
ATOM	932	CD1	PHE	X	61	38.101	49.264	23.748	0.00	0.00
ATOM	933	HD1	PHE	X	61	37.558	50.127	24.105	0.00	0.00
ATOM	934	CE1	PHE	X	61	37.755	48.036	24.208	0.00	0.00
ATOM	935	HE1	PHE	X	61	36.967	47.979	24.945	0.00	0.00
ATOM	936	CZ	PHE	X	61	38.361	46.835	23.726	0.00	0.00
ATOM	937	HZ	PHE	X	61	38.048	45.857	24.060	0.00	0.00
ATOM	938	CE2	PHE	X	61	39.443	46.875	22.832	0.00	0.00
ATOM	939	HE2	PHE	X	61	39.921	45.963	22.505	0.00	0.00
ATOM	940	CD2	PHE	X	61	39.885	48.168	22.455	0.00	0.00
ATOM	941	HD2	PHE	X	61	40.804	48.265	21.897	0.00	0.00
ATOM	942	C	PHE	X	61	39.218	52.794	21.433	0.00	0.00
ATOM	943	O	PHE	X	61	39.958	52.832	20.465	0.00	0.00
ATOM	944	N	GLN	X	62	39.020	53.816	22.244	0.00	0.00
ATOM	945	H	GLN	X	62	38.487	53.665	23.088	0.00	0.00
ATOM	946	CA	GLN	X	62	39.417	55.153	21.830	0.00	0.00
ATOM	947	HA	GLN	X	62	39.671	55.132	20.770	0.00	0.00
ATOM	948	CB	GLN	X	62	38.257	56.173	22.038	0.00	0.00
ATOM	949	HB2	GLN	X	62	37.967	56.229	23.087	0.00	0.00
ATOM	950	HB3	GLN	X	62	38.628	57.184	21.870	0.00	0.00
ATOM	951	CG	GLN	X	62	37.020	55.832	21.234	0.00	0.00
ATOM	952	HG2	GLN	X	62	37.480	55.677	20.258	0.00	0.00
ATOM	953	HG3	GLN	X	62	36.565	54.948	21.681	0.00	0.00
ATOM	954	CD	GLN	X	62	36.043	56.981	21.034	0.00	0.00
ATOM	955	OE1	GLN	X	62	36.346	57.926	20.275	0.00	0.00
ATOM	956	NE2	GLN	X	62	34.962	57.130	21.782	0.00	0.00
ATOM	957	HE21	GLN	X	62	34.373	57.941	21.661	0.00	0.00
ATOM	958	HE22	GLN	X	62	34.736	56.427	22.471	0.00	0.00
ATOM	959	C	GLN	X	62	40.629	55.687	22.621	0.00	0.00
ATOM	960	O	GLN	X	62	41.517	56.412	22.073	0.00	0.00
ATOM	961	N	SER	X	63	40.771	55.320	23.883	0.00	0.00
ATOM	962	H	SER	X	63	39.993	54.819	24.286	0.00	0.00
ATOM	963	CA	SER	X	63	41.967	55.576	24.697	0.00	0.00
ATOM	964	HA	SER	X	63	42.810	55.168	24.138	0.00	0.00
ATOM	965	CB	SER	X	63	42.164	57.101	24.902	0.00	0.00
ATOM	966	HB2	SER	X	63	43.002	57.486	24.321	0.00	0.00
ATOM	967	HB3	SER	X	63	41.356	57.526	24.305	0.00	0.00
ATOM	968	OG	SER	X	63	42.157	57.512	26.276	0.00	0.00
ATOM	969	HG	SER	X	63	41.677	58.338	26.368	0.00	0.00

ATOM	970	C	SER	X	63	42.002	54.829	26.068	0.00	0.00
ATOM	971	O	SER	X	63	41.042	54.179	26.476	0.00	0.00
ATOM	972	N	VAL	X	64	43.178	54.776	26.664	0.00	0.00
ATOM	973	H	VAL	X	64	43.884	55.375	26.261	0.00	0.00
ATOM	974	CA	VAL	X	64	43.480	54.102	27.958	0.00	0.00
ATOM	975	HA	VAL	X	64	42.553	53.827	28.461	0.00	0.00
ATOM	976	CB	VAL	X	64	44.302	52.821	27.678	0.00	0.00
ATOM	977	HB	VAL	X	64	44.691	52.427	28.616	0.00	0.00
ATOM	978	CG1	VAL	X	64	43.447	51.700	27.126	0.00	0.00
ATOM	979	HG11	VAL	X	64	42.786	51.993	26.310	0.00	0.00
ATOM	980	HG12	VAL	X	64	44.017	50.783	26.975	0.00	0.00
ATOM	981	HG13	VAL	X	64	42.717	51.470	27.902	0.00	0.00
ATOM	982	CG2	VAL	X	64	45.421	53.045	26.639	0.00	0.00
ATOM	983	HG21	VAL	X	64	45.080	53.455	25.688	0.00	0.00
ATOM	984	HG22	VAL	X	64	45.844	52.069	26.401	0.00	0.00
ATOM	985	HG23	VAL	X	64	46.237	53.685	26.976	0.00	0.00
ATOM	986	C	VAL	X	64	44.187	55.026	28.905	0.00	0.00
ATOM	987	O	VAL	X	64	44.837	56.002	28.538	0.00	0.00
ATOM	988	N	CYX	X	65	44.173	54.637	30.200	0.00	0.00
ATOM	989	H	CYX	X	65	43.704	53.792	30.494	0.00	0.00
ATOM	990	CA	CYX	X	65	44.643	55.445	31.376	0.00	0.00
ATOM	991	HA	CYX	X	65	44.393	56.493	31.217	0.00	0.00
ATOM	992	CB	CYX	X	65	43.891	55.128	32.636	0.00	0.00
ATOM	993	HB2	CYX	X	65	44.312	54.224	33.076	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.141	55.923	33.338	0.00	0.00
ATOM	995	SG	CYX	X	65	42.063	55.124	32.623	0.00	0.00
ATOM	996	C	CYX	X	65	46.141	55.335	31.648	0.00	0.00
ATOM	997	O	CYX	X	65	46.810	54.302	31.583	0.00	0.00
ATOM	998	N	TYR	X	66	46.813	56.482	31.956	0.00	0.00
ATOM	999	H	TYR	X	66	46.303	57.353	31.967	0.00	0.00
ATOM	1000	CA	TYR	X	66	48.195	56.488	32.459	0.00	0.00
ATOM	1001	HA	TYR	X	66	48.815	56.139	31.633	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.615	57.903	32.849	0.00	0.00
ATOM	1003	HB2	TYR	X	66	47.802	58.246	33.489	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.559	57.897	33.393	0.00	0.00
ATOM	1005	CG	TYR	X	66	48.673	58.898	31.679	0.00	0.00
ATOM	1006	CD1	TYR	X	66	47.970	60.147	31.743	0.00	0.00
ATOM	1007	HD1	TYR	X	66	47.596	60.420	32.719	0.00	0.00
ATOM	1008	CE1	TYR	X	66	47.875	61.057	30.628	0.00	0.00
ATOM	1009	HE1	TYR	X	66	47.360	62.002	30.719	0.00	0.00
ATOM	1010	CZ	TYR	X	66	48.655	60.782	29.479	0.00	0.00
ATOM	1011	OH	TYR	X	66	48.857	61.653	28.465	0.00	0.00
ATOM	1012	HH	TYR	X	66	48.249	62.396	28.447	0.00	0.00
ATOM	1013	CE2	TYR	X	66	49.405	59.627	29.493	0.00	0.00
ATOM	1014	HE2	TYR	X	66	49.961	59.415	28.592	0.00	0.00
ATOM	1015	CD2	TYR	X	66	49.390	58.658	30.481	0.00	0.00
ATOM	1016	HD2	TYR	X	66	49.878	57.706	30.330	0.00	0.00
ATOM	1017	C	TYR	X	66	48.479	55.561	33.604	0.00	0.00
ATOM	1018	O	TYR	X	66	47.668	55.508	34.524	0.00	0.00
ATOM	1019	N	GLN	X	67	49.608	54.844	33.539	0.00	0.00
ATOM	1020	H	GLN	X	67	50.144	54.978	32.693	0.00	0.00
ATOM	1021	CA	GLN	X	67	49.970	53.736	34.453	0.00	0.00
ATOM	1022	HA	GLN	X	67	49.896	54.113	35.473	0.00	0.00
ATOM	1023	CB	GLN	X	67	49.023	52.534	34.182	0.00	0.00
ATOM	1024	HB2	GLN	X	67	49.312	51.761	34.895	0.00	0.00
ATOM	1025	HB3	GLN	X	67	48.003	52.797	34.460	0.00	0.00
ATOM	1026	CG	GLN	X	67	48.999	51.966	32.741	0.00	0.00
ATOM	1027	HG2	GLN	X	67	48.946	52.674	31.915	0.00	0.00
ATOM	1028	HG3	GLN	X	67	49.878	51.359	32.522	0.00	0.00
ATOM	1029	CD	GLN	X	67	47.808	51.046	32.435	0.00	0.00
ATOM	1030	OE1	GLN	X	67	47.969	49.846	32.303	0.00	0.00
ATOM	1031	NE2	GLN	X	67	46.592	51.589	32.261	0.00	0.00
ATOM	1032	HE21	GLN	X	67	45.814	50.954	32.364	0.00	0.00
ATOM	1033	HE22	GLN	X	67	46.437	52.587	32.281	0.00	0.00
ATOM	1034	C	GLN	X	67	51.394	53.193	34.173	0.00	0.00
ATOM	1035	O	GLN	X	67	52.057	53.579	33.166	0.00	0.00
ATOM	1036	N	TYR	X	68	51.959	52.236	34.969	0.00	0.00

ATOM	1037	H	TYR	X	68	51.435	51.983	35.795	0.00	0.00
ATOM	1038	CA	TYR	X	68	53.214	51.581	34.736	0.00	0.00
ATOM	1039	HA	TYR	X	68	53.965	52.275	34.359	0.00	0.00
ATOM	1040	CB	TYR	X	68	53.824	50.974	36.045	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.035	51.858	36.648	0.00	0.00
ATOM	1042	HB3	TYR	X	68	53.175	50.353	36.661	0.00	0.00
ATOM	1043	CG	TYR	X	68	55.183	50.345	35.839	0.00	0.00
ATOM	1044	CD1	TYR	X	68	56.349	51.189	35.885	0.00	0.00
ATOM	1045	HD1	TYR	X	68	56.311	52.230	36.170	0.00	0.00
ATOM	1046	CE1	TYR	X	68	57.564	50.550	35.645	0.00	0.00
ATOM	1047	HE1	TYR	X	68	58.512	51.063	35.576	0.00	0.00
ATOM	1048	CZ	TYR	X	68	57.650	49.151	35.462	0.00	0.00
ATOM	1049	OH	TYR	X	68	58.808	48.534	35.207	0.00	0.00
ATOM	1050	HH	TYR	X	68	59.535	49.161	35.208	0.00	0.00
ATOM	1051	CE2	TYR	X	68	56.496	48.389	35.464	0.00	0.00
ATOM	1052	HE2	TYR	X	68	56.580	47.319	35.341	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.212	48.932	35.677	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.370	48.262	35.578	0.00	0.00
ATOM	1055	C	TYR	X	68	53.048	50.477	33.692	0.00	0.00
ATOM	1056	O	TYR	X	68	52.109	49.650	33.772	0.00	0.00
ATOM	1057	N	VAL	X	69	53.948	50.357	32.737	0.00	0.00
ATOM	1058	H	VAL	X	69	54.699	51.028	32.820	0.00	0.00
ATOM	1059	CA	VAL	X	69	54.030	49.177	31.833	0.00	0.00
ATOM	1060	HA	VAL	X	69	53.433	48.286	32.026	0.00	0.00
ATOM	1061	CB	VAL	X	69	53.831	49.541	30.382	0.00	0.00
ATOM	1062	HB	VAL	X	69	54.249	48.667	29.883	0.00	0.00
ATOM	1063	CG1	VAL	X	69	52.377	49.764	30.033	0.00	0.00
ATOM	1064	HG11	VAL	X	69	52.131	50.781	30.342	0.00	0.00
ATOM	1065	HG12	VAL	X	69	52.146	49.724	28.969	0.00	0.00
ATOM	1066	HG13	VAL	X	69	51.722	49.024	30.494	0.00	0.00
ATOM	1067	CG2	VAL	X	69	54.650	50.748	29.953	0.00	0.00
ATOM	1068	HG21	VAL	X	69	54.593	50.790	28.865	0.00	0.00
ATOM	1069	HG22	VAL	X	69	55.680	50.591	30.272	0.00	0.00
ATOM	1070	HG23	VAL	X	69	54.248	51.655	30.404	0.00	0.00
ATOM	1071	C	VAL	X	69	55.468	48.666	32.068	0.00	0.00
ATOM	1072	O	VAL	X	69	56.351	49.448	32.435	0.00	0.00
ATOM	1073	N	ASP	X	70	55.788	47.404	31.809	0.00	0.00
ATOM	1074	H	ASP	X	70	55.088	46.748	31.495	0.00	0.00
ATOM	1075	CA	ASP	X	70	57.062	46.796	32.304	0.00	0.00
ATOM	1076	HA	ASP	X	70	57.242	47.156	33.317	0.00	0.00
ATOM	1077	CB	ASP	X	70	56.842	45.279	32.365	0.00	0.00
ATOM	1078	HB2	ASP	X	70	55.807	45.028	32.598	0.00	0.00
ATOM	1079	HB3	ASP	X	70	57.148	44.801	31.435	0.00	0.00
ATOM	1080	CG	ASP	X	70	57.662	44.580	33.522	0.00	0.00
ATOM	1081	OD1	ASP	X	70	57.000	43.702	34.099	0.00	0.00
ATOM	1082	OD2	ASP	X	70	58.859	44.828	33.675	0.00	0.00
ATOM	1083	C	ASP	X	70	58.314	47.115	31.487	0.00	0.00
ATOM	1084	O	ASP	X	70	58.239	47.027	30.223	0.00	0.00
ATOM	1085	N	THR	X	71	59.377	47.537	32.187	0.00	0.00
ATOM	1086	H	THR	X	71	59.081	47.829	33.107	0.00	0.00
ATOM	1087	CA	THR	X	71	60.720	47.724	31.786	0.00	0.00
ATOM	1088	HA	THR	X	71	60.851	47.417	30.748	0.00	0.00
ATOM	1089	CB	THR	X	71	61.054	49.293	31.793	0.00	0.00
ATOM	1090	HB	THR	X	71	62.015	49.543	31.343	0.00	0.00
ATOM	1091	CG2	THR	X	71	60.030	50.133	31.035	0.00	0.00
ATOM	1092	HG21	THR	X	71	60.030	49.813	29.993	0.00	0.00
ATOM	1093	HG22	THR	X	71	60.370	51.168	31.052	0.00	0.00
ATOM	1094	HG23	THR	X	71	59.036	50.058	31.477	0.00	0.00
ATOM	1095	OG1	THR	X	71	60.883	49.875	33.035	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.749	49.945	33.443	0.00	0.00
ATOM	1097	C	THR	X	71	61.762	46.957	32.657	0.00	0.00
ATOM	1098	O	THR	X	71	62.948	47.222	32.396	0.00	0.00
ATOM	1099	N	LEU	X	72	61.356	46.029	33.522	0.00	0.00
ATOM	1100	H	LEU	X	72	60.372	45.809	33.574	0.00	0.00
ATOM	1101	CA	LEU	X	72	62.278	45.140	34.173	0.00	0.00
ATOM	1102	HA	LEU	X	72	63.295	45.524	34.096	0.00	0.00
ATOM	1103	CB	LEU	X	72	61.964	44.898	35.668	0.00	0.00

ATOM	1104	HB2	LEU	X	72	60.929	44.565	35.748	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.648	44.146	36.062	0.00	0.00
ATOM	1106	CG	LEU	X	72	62.060	46.192	36.539	0.00	0.00
ATOM	1107	HG	LEU	X	72	61.432	47.002	36.170	0.00	0.00
ATOM	1108	CD1	LEU	X	72	61.702	45.890	38.024	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.369	45.153	38.471	0.00	0.00
ATOM	1110	HD12	LEU	X	72	60.662	45.571	38.082	0.00	0.00
ATOM	1111	HD13	LEU	X	72	61.765	46.821	38.588	0.00	0.00
ATOM	1112	CD2	LEU	X	72	63.463	46.792	36.565	0.00	0.00
ATOM	1113	HD21	LEU	X	72	64.129	45.985	36.870	0.00	0.00
ATOM	1114	HD22	LEU	X	72	63.733	47.061	35.543	0.00	0.00
ATOM	1115	HD23	LEU	X	72	63.518	47.705	37.158	0.00	0.00
ATOM	1116	C	LEU	X	72	62.348	43.804	33.433	0.00	0.00
ATOM	1117	O	LEU	X	72	63.390	43.232	33.173	0.00	0.00
ATOM	1118	N	TYR	X	73	61.179	43.395	32.948	0.00	0.00
ATOM	1119	H	TYR	X	73	60.389	43.880	33.350	0.00	0.00
ATOM	1120	CA	TYR	X	73	61.010	42.274	31.981	0.00	0.00
ATOM	1121	HA	TYR	X	73	61.970	42.161	31.477	0.00	0.00
ATOM	1122	CB	TYR	X	73	60.546	41.028	32.727	0.00	0.00
ATOM	1123	HB2	TYR	X	73	59.589	41.223	33.212	0.00	0.00
ATOM	1124	HB3	TYR	X	73	60.526	40.188	32.033	0.00	0.00
ATOM	1125	CG	TYR	X	73	61.429	40.625	33.867	0.00	0.00
ATOM	1126	CD1	TYR	X	73	62.774	40.197	33.673	0.00	0.00
ATOM	1127	HD1	TYR	X	73	63.136	40.146	32.656	0.00	0.00
ATOM	1128	CE1	TYR	X	73	63.497	39.725	34.714	0.00	0.00
ATOM	1129	HE1	TYR	X	73	64.453	39.255	34.536	0.00	0.00
ATOM	1130	CZ	TYR	X	73	63.051	39.803	36.041	0.00	0.00
ATOM	1131	OH	TYR	X	73	63.808	39.384	37.081	0.00	0.00
ATOM	1132	HH	TYR	X	73	63.398	39.607	37.920	0.00	0.00
ATOM	1133	CE2	TYR	X	73	61.773	40.411	36.240	0.00	0.00
ATOM	1134	HE2	TYR	X	73	61.439	40.518	37.261	0.00	0.00
ATOM	1135	CD2	TYR	X	73	60.937	40.740	35.157	0.00	0.00
ATOM	1136	HD2	TYR	X	73	59.892	40.972	35.300	0.00	0.00
ATOM	1137	C	TYR	X	73	60.171	42.651	30.791	0.00	0.00
ATOM	1138	O	TYR	X	73	59.068	42.120	30.644	0.00	0.00
ATOM	1139	N	PRO	X	74	60.691	43.545	29.918	0.00	0.00
ATOM	1140	CD	PRO	X	74	62.011	44.142	29.835	0.00	0.00
ATOM	1141	HD2	PRO	X	74	62.711	43.428	29.400	0.00	0.00
ATOM	1142	HD3	PRO	X	74	62.332	44.483	30.819	0.00	0.00
ATOM	1143	CG	PRO	X	74	61.858	45.372	28.960	0.00	0.00
ATOM	1144	HG2	PRO	X	74	62.690	45.413	28.257	0.00	0.00
ATOM	1145	HG3	PRO	X	74	61.983	46.357	29.409	0.00	0.00
ATOM	1146	CB	PRO	X	74	60.471	45.206	28.287	0.00	0.00
ATOM	1147	HB2	PRO	X	74	60.536	45.443	27.226	0.00	0.00
ATOM	1148	HB3	PRO	X	74	59.795	45.974	28.663	0.00	0.00
ATOM	1149	CA	PRO	X	74	59.941	43.825	28.684	0.00	0.00
ATOM	1150	HA	PRO	X	74	58.875	43.908	28.895	0.00	0.00
ATOM	1151	C	PRO	X	74	60.187	42.805	27.624	0.00	0.00
ATOM	1152	O	PRO	X	74	61.143	42.046	27.642	0.00	0.00
ATOM	1153	N	GLY	X	75	59.242	42.667	26.680	0.00	0.00
ATOM	1154	H	GLY	X	75	58.382	43.191	26.763	0.00	0.00
ATOM	1155	CA	GLY	X	75	59.392	41.849	25.471	0.00	0.00
ATOM	1156	HA2	GLY	X	75	58.874	42.342	24.648	0.00	0.00
ATOM	1157	HA3	GLY	X	75	60.401	41.750	25.070	0.00	0.00
ATOM	1158	C	GLY	X	75	58.816	40.430	25.732	0.00	0.00
ATOM	1159	O	GLY	X	75	58.292	39.768	24.866	0.00	0.00
ATOM	1160	N	PHE	X	76	58.755	40.011	27.002	0.00	0.00
ATOM	1161	H	PHE	X	76	59.077	40.652	27.713	0.00	0.00
ATOM	1162	CA	PHE	X	76	58.380	38.731	27.431	0.00	0.00
ATOM	1163	HA	PHE	X	76	58.774	37.981	26.745	0.00	0.00
ATOM	1164	CB	PHE	X	76	58.740	38.545	28.895	0.00	0.00
ATOM	1165	HB2	PHE	X	76	59.827	38.578	28.962	0.00	0.00
ATOM	1166	HB3	PHE	X	76	58.303	39.450	29.316	0.00	0.00
ATOM	1167	CG	PHE	X	76	58.239	37.345	29.603	0.00	0.00
ATOM	1168	CD1	PHE	X	76	58.582	36.088	29.028	0.00	0.00
ATOM	1169	HD1	PHE	X	76	59.165	36.048	28.119	0.00	0.00
ATOM	1170	CE1	PHE	X	76	58.080	34.855	29.556	0.00	0.00

ATOM	1171	HE1	PHE	X	76	58.346	33.878	29.180	0.00	0.00
ATOM	1172	CZ	PHE	X	76	57.326	34.929	30.764	0.00	0.00
ATOM	1173	HZ	PHE	X	76	56.971	34.027	31.240	0.00	0.00
ATOM	1174	CE2	PHE	X	76	57.066	36.150	31.384	0.00	0.00
ATOM	1175	HE2	PHE	X	76	56.480	36.048	32.286	0.00	0.00
ATOM	1176	CD2	PHE	X	76	57.420	37.353	30.775	0.00	0.00
ATOM	1177	HD2	PHE	X	76	57.286	38.328	31.219	0.00	0.00
ATOM	1178	C	PHE	X	76	56.817	38.712	27.314	0.00	0.00
ATOM	1179	O	PHE	X	76	56.080	39.646	27.715	0.00	0.00
ATOM	1180	N	GLU	X	77	56.287	37.573	26.919	0.00	0.00
ATOM	1181	H	GLU	X	77	56.872	36.763	26.776	0.00	0.00
ATOM	1182	CA	GLU	X	77	54.773	37.369	26.626	0.00	0.00
ATOM	1183	HA	GLU	X	77	54.450	38.005	25.802	0.00	0.00
ATOM	1184	CB	GLU	X	77	54.470	35.919	26.213	0.00	0.00
ATOM	1185	HB2	GLU	X	77	54.875	35.254	26.976	0.00	0.00
ATOM	1186	HB3	GLU	X	77	53.381	35.895	26.196	0.00	0.00
ATOM	1187	CG	GLU	X	77	54.975	35.531	24.811	0.00	0.00
ATOM	1188	HG2	GLU	X	77	56.045	35.720	24.719	0.00	0.00
ATOM	1189	HG3	GLU	X	77	54.835	34.454	24.715	0.00	0.00
ATOM	1190	CD	GLU	X	77	54.256	36.216	23.708	0.00	0.00
ATOM	1191	OE1	GLU	X	77	54.741	37.294	23.353	0.00	0.00
ATOM	1192	OE2	GLU	X	77	53.112	35.920	23.326	0.00	0.00
ATOM	1193	C	GLU	X	77	53.862	37.655	27.815	0.00	0.00
ATOM	1194	O	GLU	X	77	52.757	38.242	27.628	0.00	0.00
ATOM	1195	N	GLY	X	78	54.305	37.330	28.948	0.00	0.00
ATOM	1196	H	GLY	X	78	55.198	36.859	28.924	0.00	0.00
ATOM	1197	CA	GLY	X	78	53.544	37.606	30.092	0.00	0.00
ATOM	1198	HA2	GLY	X	78	52.535	37.196	30.049	0.00	0.00
ATOM	1199	HA3	GLY	X	78	54.052	37.177	30.956	0.00	0.00
ATOM	1200	C	GLY	X	78	53.481	39.043	30.539	0.00	0.00
ATOM	1201	O	GLY	X	78	52.573	39.364	31.301	0.00	0.00
ATOM	1202	N	THR	X	79	54.383	39.933	30.022	0.00	0.00
ATOM	1203	H	THR	X	79	55.159	39.525	29.520	0.00	0.00
ATOM	1204	CA	THR	X	79	54.365	41.362	30.325	0.00	0.00
ATOM	1205	HA	THR	X	79	53.756	41.525	31.214	0.00	0.00
ATOM	1206	CB	THR	X	79	55.736	41.877	30.713	0.00	0.00
ATOM	1207	HB	THR	X	79	55.631	42.912	31.040	0.00	0.00
ATOM	1208	CG2	THR	X	79	56.271	41.073	31.956	0.00	0.00
ATOM	1209	HG21	THR	X	79	55.552	41.067	32.775	0.00	0.00
ATOM	1210	HG22	THR	X	79	57.209	41.501	32.311	0.00	0.00
ATOM	1211	HG23	THR	X	79	56.520	40.071	31.607	0.00	0.00
ATOM	1212	OG1	THR	X	79	56.658	41.830	29.620	0.00	0.00
ATOM	1213	HG1	THR	X	79	57.526	41.791	30.029	0.00	0.00
ATOM	1214	C	THR	X	79	53.813	42.058	29.097	0.00	0.00
ATOM	1215	O	THR	X	79	53.022	42.979	29.297	0.00	0.00
ATOM	1216	N	GLU	X	80	54.096	41.628	27.851	0.00	0.00
ATOM	1217	H	GLU	X	80	54.776	40.893	27.716	0.00	0.00
ATOM	1218	CA	GLU	X	80	53.528	42.241	26.635	0.00	0.00
ATOM	1219	HA	GLU	X	80	53.782	43.299	26.565	0.00	0.00
ATOM	1220	CB	GLU	X	80	54.285	41.499	25.475	0.00	0.00
ATOM	1221	HB2	GLU	X	80	55.359	41.461	25.655	0.00	0.00
ATOM	1222	HB3	GLU	X	80	53.871	40.492	25.416	0.00	0.00
ATOM	1223	CG	GLU	X	80	54.249	42.180	24.162	0.00	0.00
ATOM	1224	HG2	GLU	X	80	53.244	42.214	23.740	0.00	0.00
ATOM	1225	HG3	GLU	X	80	54.591	43.204	24.313	0.00	0.00
ATOM	1226	CD	GLU	X	80	55.154	41.490	23.208	0.00	0.00
ATOM	1227	OE1	GLU	X	80	54.775	40.360	22.807	0.00	0.00
ATOM	1228	OE2	GLU	X	80	56.178	42.028	22.776	0.00	0.00
ATOM	1229	C	GLU	X	80	52.012	42.037	26.581	0.00	0.00
ATOM	1230	O	GLU	X	80	51.336	42.857	25.915	0.00	0.00
ATOM	1231	N	MET	X	81	51.435	41.050	27.282	0.00	0.00
ATOM	1232	H	MET	X	81	52.023	40.331	27.679	0.00	0.00
ATOM	1233	CA	MET	X	81	49.981	40.946	27.391	0.00	0.00
ATOM	1234	HA	MET	X	81	49.629	40.973	26.360	0.00	0.00
ATOM	1235	CB	MET	X	81	49.583	39.553	27.799	0.00	0.00
ATOM	1236	HB2	MET	X	81	48.497	39.469	27.827	0.00	0.00
ATOM	1237	HB3	MET	X	81	49.828	38.756	27.098	0.00	0.00

ATOM	1238	CG	MET	X	81	50.060	39.161	29.194	0.00	0.00
ATOM	1239	HG2	MET	X	81	51.144	39.049	29.170	0.00	0.00
ATOM	1240	HG3	MET	X	81	49.757	39.962	29.867	0.00	0.00
ATOM	1241	SD	MET	X	81	49.334	37.632	29.841	0.00	0.00
ATOM	1242	CE	MET	X	81	47.539	37.980	29.934	0.00	0.00
ATOM	1243	HE1	MET	X	81	47.280	38.993	30.242	0.00	0.00
ATOM	1244	HE2	MET	X	81	46.981	37.812	29.012	0.00	0.00
ATOM	1245	HE3	MET	X	81	47.026	37.255	30.566	0.00	0.00
ATOM	1246	C	MET	X	81	49.275	41.963	28.196	0.00	0.00
ATOM	1247	O	MET	X	81	48.172	42.387	27.880	0.00	0.00
ATOM	1248	N	TRP	X	82	50.009	42.474	29.221	0.00	0.00
ATOM	1249	H	TRP	X	82	50.971	42.188	29.332	0.00	0.00
ATOM	1250	CA	TRP	X	82	49.620	43.643	30.006	0.00	0.00
ATOM	1251	HA	TRP	X	82	48.542	43.774	30.099	0.00	0.00
ATOM	1252	CB	TRP	X	82	50.116	43.454	31.452	0.00	0.00
ATOM	1253	HB2	TRP	X	82	51.175	43.678	31.586	0.00	0.00
ATOM	1254	HB3	TRP	X	82	49.587	44.232	32.002	0.00	0.00
ATOM	1255	CG	TRP	X	82	49.851	42.127	32.072	0.00	0.00
ATOM	1256	CD1	TRP	X	82	50.780	41.333	32.579	0.00	0.00
ATOM	1257	HD1	TRP	X	82	51.839	41.536	32.528	0.00	0.00
ATOM	1258	NE1	TRP	X	82	50.221	40.157	33.059	0.00	0.00
ATOM	1259	HE1	TRP	X	82	50.699	39.268	33.096	0.00	0.00
ATOM	1260	CE2	TRP	X	82	48.855	40.122	32.924	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	47.776	39.175	33.063	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	48.024	38.200	33.454	0.00	0.00
ATOM	1263	CH2	TRP	X	82	46.461	39.511	32.776	0.00	0.00
ATOM	1264	HH2	TRP	X	82	45.755	38.703	32.901	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	46.143	40.814	32.355	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	45.097	40.982	32.145	0.00	0.00
ATOM	1267	CE3	TRP	X	82	47.190	41.685	32.097	0.00	0.00
ATOM	1268	HE3	TRP	X	82	47.024	42.650	31.642	0.00	0.00
ATOM	1269	CD2	TRP	X	82	48.555	41.395	32.371	0.00	0.00
ATOM	1270	C	TRP	X	82	49.954	45.026	29.484	0.00	0.00
ATOM	1271	O	TRP	X	82	49.320	45.999	29.952	0.00	0.00
ATOM	1272	N	ASN	X	83	51.023	45.157	28.669	0.00	0.00
ATOM	1273	H	ASN	X	83	51.533	44.349	28.342	0.00	0.00
ATOM	1274	CA	ASN	X	83	51.283	46.439	27.980	0.00	0.00
ATOM	1275	HA	ASN	X	83	51.512	47.124	28.796	0.00	0.00
ATOM	1276	CB	ASN	X	83	52.686	46.360	27.286	0.00	0.00
ATOM	1277	HB2	ASN	X	83	53.453	46.033	27.988	0.00	0.00
ATOM	1278	HB3	ASN	X	83	52.535	45.751	26.395	0.00	0.00
ATOM	1279	CG	ASN	X	83	53.049	47.707	26.722	0.00	0.00
ATOM	1280	OD1	ASN	X	83	52.355	48.417	26.008	0.00	0.00
ATOM	1281	ND2	ASN	X	83	54.255	48.109	27.093	0.00	0.00
ATOM	1282	HD21	ASN	X	83	54.715	48.921	26.705	0.00	0.00
ATOM	1283	HD22	ASN	X	83	54.755	47.410	27.624	0.00	0.00
ATOM	1284	C	ASN	X	83	50.064	46.904	26.987	0.00	0.00
ATOM	1285	O	ASN	X	83	49.936	46.315	25.935	0.00	0.00
ATOM	1286	N	PRO	X	84	49.269	47.964	27.196	0.00	0.00
ATOM	1287	CD	PRO	X	84	49.294	48.921	28.291	0.00	0.00
ATOM	1288	HD2	PRO	X	84	50.172	49.532	28.080	0.00	0.00
ATOM	1289	HD3	PRO	X	84	49.430	48.326	29.194	0.00	0.00
ATOM	1290	CG	PRO	X	84	47.989	49.642	28.265	0.00	0.00
ATOM	1291	HG2	PRO	X	84	48.082	50.687	28.563	0.00	0.00
ATOM	1292	HG3	PRO	X	84	47.173	49.162	28.805	0.00	0.00
ATOM	1293	CB	PRO	X	84	47.547	49.634	26.816	0.00	0.00
ATOM	1294	HB2	PRO	X	84	47.916	50.558	26.371	0.00	0.00
ATOM	1295	HB3	PRO	X	84	46.464	49.511	26.795	0.00	0.00
ATOM	1296	CA	PRO	X	84	48.181	48.370	26.280	0.00	0.00
ATOM	1297	HA	PRO	X	84	47.398	47.615	26.222	0.00	0.00
ATOM	1298	C	PRO	X	84	48.502	48.697	24.812	0.00	0.00
ATOM	1299	O	PRO	X	84	49.614	48.754	24.372	0.00	0.00
ATOM	1300	N	ASN	X	85	47.403	48.859	24.126	0.00	0.00
ATOM	1301	H	ASN	X	85	46.514	48.760	24.594	0.00	0.00
ATOM	1302	CA	ASN	X	85	47.218	48.724	22.683	0.00	0.00
ATOM	1303	HA	ASN	X	85	48.170	48.680	22.154	0.00	0.00
ATOM	1304	CB	ASN	X	85	46.550	47.424	22.339	0.00	0.00

ATOM	1305	HB2	ASN	X	85	46.562	47.427	21.249	0.00	0.00
ATOM	1306	HB3	ASN	X	85	47.171	46.614	22.721	0.00	0.00
ATOM	1307	CG	ASN	X	85	45.172	47.274	22.944	0.00	0.00
ATOM	1308	OD1	ASN	X	85	44.604	48.181	23.615	0.00	0.00
ATOM	1309	ND2	ASN	X	85	44.636	46.064	22.806	0.00	0.00
ATOM	1310	HD21	ASN	X	85	43.753	45.849	23.248	0.00	0.00
ATOM	1311	HD22	ASN	X	85	45.244	45.404	22.342	0.00	0.00
ATOM	1312	C	ASN	X	85	46.551	49.962	22.066	0.00	0.00
ATOM	1313	O	ASN	X	85	45.944	49.876	20.947	0.00	0.00
ATOM	1314	N	ARG	X	86	46.421	51.115	22.838	0.00	0.00
ATOM	1315	H	ARG	X	86	46.587	50.995	23.827	0.00	0.00
ATOM	1316	CA	ARG	X	86	45.773	52.325	22.423	0.00	0.00
ATOM	1317	HA	ARG	X	86	45.808	52.403	21.336	0.00	0.00
ATOM	1318	CB	ARG	X	86	44.360	52.344	22.873	0.00	0.00
ATOM	1319	HB2	ARG	X	86	44.376	52.213	23.955	0.00	0.00
ATOM	1320	HB3	ARG	X	86	43.868	53.298	22.684	0.00	0.00
ATOM	1321	CG	ARG	X	86	43.392	51.349	22.187	0.00	0.00
ATOM	1322	HG2	ARG	X	86	43.778	50.332	22.255	0.00	0.00
ATOM	1323	HG3	ARG	X	86	42.455	51.473	22.731	0.00	0.00
ATOM	1324	CD	ARG	X	86	43.097	51.662	20.686	0.00	0.00
ATOM	1325	HD2	ARG	X	86	42.765	52.700	20.715	0.00	0.00
ATOM	1326	HD3	ARG	X	86	44.001	51.621	20.078	0.00	0.00
ATOM	1327	NE	ARG	X	86	42.154	50.805	19.956	0.00	0.00
ATOM	1328	HE	ARG	X	86	41.319	51.220	19.568	0.00	0.00
ATOM	1329	CZ	ARG	X	86	42.380	49.509	19.670	0.00	0.00
ATOM	1330	NH1	ARG	X	86	43.555	48.874	19.902	0.00	0.00
ATOM	1331	HH11	ARG	X	86	44.433	49.351	20.054	0.00	0.00
ATOM	1332	HH12	ARG	X	86	43.641	47.916	19.595	0.00	0.00
ATOM	1333	NH2	ARG	X	86	41.420	48.732	19.177	0.00	0.00
ATOM	1334	HH21	ARG	X	86	40.464	49.054	19.117	0.00	0.00
ATOM	1335	HH22	ARG	X	86	41.648	47.812	18.827	0.00	0.00
ATOM	1336	C	ARG	X	86	46.469	53.557	22.999	0.00	0.00
ATOM	1337	O	ARG	X	86	47.438	53.427	23.705	0.00	0.00
ATOM	1338	N	GLU	X	87	45.910	54.764	22.759	0.00	0.00
ATOM	1339	H	GLU	X	87	45.138	55.001	22.153	0.00	0.00
ATOM	1340	CA	GLU	X	87	46.501	55.994	23.189	0.00	0.00
ATOM	1341	HA	GLU	X	87	47.530	55.918	22.838	0.00	0.00
ATOM	1342	CB	GLU	X	87	45.947	57.225	22.449	0.00	0.00
ATOM	1343	HB2	GLU	X	87	45.915	57.026	21.377	0.00	0.00
ATOM	1344	HB3	GLU	X	87	44.903	57.280	22.757	0.00	0.00
ATOM	1345	CG	GLU	X	87	46.789	58.468	22.760	0.00	0.00
ATOM	1346	HG2	GLU	X	87	46.799	58.582	23.844	0.00	0.00
ATOM	1347	HG3	GLU	X	87	47.803	58.470	22.360	0.00	0.00
ATOM	1348	CD	GLU	X	87	46.188	59.725	22.143	0.00	0.00
ATOM	1349	OE1	GLU	X	87	45.628	60.454	22.947	0.00	0.00
ATOM	1350	OE2	GLU	X	87	46.312	59.865	20.892	0.00	0.00
ATOM	1351	C	GLU	X	87	46.339	56.081	24.708	0.00	0.00
ATOM	1352	O	GLU	X	87	45.292	55.951	25.260	0.00	0.00
ATOM	1353	N	LEU	X	88	47.509	56.373	25.335	0.00	0.00
ATOM	1354	H	LEU	X	88	48.218	56.729	24.710	0.00	0.00
ATOM	1355	CA	LEU	X	88	47.673	56.554	26.705	0.00	0.00
ATOM	1356	HA	LEU	X	88	46.874	56.102	27.293	0.00	0.00
ATOM	1357	CB	LEU	X	88	49.069	56.060	27.175	0.00	0.00
ATOM	1358	HB2	LEU	X	88	49.795	56.321	26.405	0.00	0.00
ATOM	1359	HB3	LEU	X	88	49.298	56.631	28.074	0.00	0.00
ATOM	1360	CG	LEU	X	88	49.218	54.629	27.654	0.00	0.00
ATOM	1361	HG	LEU	X	88	48.768	54.026	26.865	0.00	0.00
ATOM	1362	CD1	LEU	X	88	50.675	54.218	27.825	0.00	0.00
ATOM	1363	HD11	LEU	X	88	51.276	54.404	26.935	0.00	0.00
ATOM	1364	HD12	LEU	X	88	50.579	53.134	27.891	0.00	0.00
ATOM	1365	HD13	LEU	X	88	51.118	54.650	28.722	0.00	0.00
ATOM	1366	CD2	LEU	X	88	48.562	54.198	28.959	0.00	0.00
ATOM	1367	HD21	LEU	X	88	48.862	54.880	29.755	0.00	0.00
ATOM	1368	HD22	LEU	X	88	47.473	54.241	28.932	0.00	0.00
ATOM	1369	HD23	LEU	X	88	48.820	53.164	29.187	0.00	0.00
ATOM	1370	C	LEU	X	88	47.486	58.028	26.980	0.00	0.00
ATOM	1371	O	LEU	X	88	47.981	58.805	26.163	0.00	0.00

ATOM	1372	N	SER	X	89	46.575	58.343	27.894	0.00	0.00
ATOM	1373	H	SER	X	89	46.388	57.704	28.654	0.00	0.00
ATOM	1374	CA	SER	X	89	45.814	59.579	27.898	0.00	0.00
ATOM	1375	HA	SER	X	89	46.410	60.435	27.578	0.00	0.00
ATOM	1376	CB	SER	X	89	44.754	59.352	26.840	0.00	0.00
ATOM	1377	HB2	SER	X	89	45.340	59.148	25.944	0.00	0.00
ATOM	1378	HB3	SER	X	89	44.283	58.414	27.135	0.00	0.00
ATOM	1379	OG	SER	X	89	43.837	60.375	26.784	0.00	0.00
ATOM	1380	HG	SER	X	89	43.005	60.128	26.375	0.00	0.00
ATOM	1381	C	SER	X	89	45.076	59.795	29.195	0.00	0.00
ATOM	1382	O	SER	X	89	44.889	58.908	30.025	0.00	0.00
ATOM	1383	N	GLU	X	90	44.685	61.080	29.411	0.00	0.00
ATOM	1384	H	GLU	X	90	44.804	61.789	28.701	0.00	0.00
ATOM	1385	CA	GLU	X	90	43.953	61.527	30.581	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.139	60.856	31.419	0.00	0.00
ATOM	1387	CB	GLU	X	90	44.346	63.009	30.878	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.333	63.179	30.450	0.00	0.00
ATOM	1389	HB3	GLU	X	90	43.616	63.671	30.412	0.00	0.00
ATOM	1390	CG	GLU	X	90	44.466	63.264	32.391	0.00	0.00
ATOM	1391	HG2	GLU	X	90	43.457	63.094	32.766	0.00	0.00
ATOM	1392	HG3	GLU	X	90	45.197	62.579	32.820	0.00	0.00
ATOM	1393	CD	GLU	X	90	44.882	64.749	32.721	0.00	0.00
ATOM	1394	OE1	GLU	X	90	44.494	65.260	33.816	0.00	0.00
ATOM	1395	OE2	GLU	X	90	45.537	65.404	31.908	0.00	0.00
ATOM	1396	C	GLU	X	90	42.411	61.519	30.453	0.00	0.00
ATOM	1397	O	GLU	X	90	41.653	61.675	31.337	0.00	0.00
ATOM	1398	N	ASP	X	91	41.852	61.368	29.231	0.00	0.00
ATOM	1399	H	ASP	X	91	42.527	61.253	28.488	0.00	0.00
ATOM	1400	CA	ASP	X	91	40.410	61.333	28.834	0.00	0.00
ATOM	1401	HA	ASP	X	91	39.896	62.086	29.431	0.00	0.00
ATOM	1402	CB	ASP	X	91	40.267	61.915	27.417	0.00	0.00
ATOM	1403	HB2	ASP	X	91	39.310	62.433	27.352	0.00	0.00
ATOM	1404	HB3	ASP	X	91	41.138	62.529	27.191	0.00	0.00
ATOM	1405	CG	ASP	X	91	40.341	60.918	26.258	0.00	0.00
ATOM	1406	OD1	ASP	X	91	39.448	60.994	25.409	0.00	0.00
ATOM	1407	OD2	ASP	X	91	41.226	60.060	26.312	0.00	0.00
ATOM	1408	C	ASP	X	91	39.722	59.975	29.120	0.00	0.00
ATOM	1409	O	ASP	X	91	38.651	59.627	28.668	0.00	0.00
ATOM	1410	N	CYX	X	92	40.390	59.035	29.739	0.00	0.00
ATOM	1411	H	CYX	X	92	41.211	59.405	30.197	0.00	0.00
ATOM	1412	CA	CYX	X	92	40.219	57.549	29.687	0.00	0.00
ATOM	1413	HA	CYX	X	92	40.360	57.281	28.640	0.00	0.00
ATOM	1414	CB	CYX	X	92	41.368	56.911	30.420	0.00	0.00
ATOM	1415	HB2	CYX	X	92	41.381	55.879	30.069	0.00	0.00
ATOM	1416	HB3	CYX	X	92	42.301	57.365	30.087	0.00	0.00
ATOM	1417	SG	CYX	X	92	41.379	57.038	32.242	0.00	0.00
ATOM	1418	C	CYX	X	92	38.905	56.979	30.196	0.00	0.00
ATOM	1419	O	CYX	X	92	38.819	55.736	30.105	0.00	0.00
ATOM	1420	N	LEU	X	93	37.940	57.727	30.744	0.00	0.00
ATOM	1421	H	LEU	X	93	37.933	58.728	30.608	0.00	0.00
ATOM	1422	CA	LEU	X	93	36.675	57.160	31.112	0.00	0.00
ATOM	1423	HA	LEU	X	93	36.816	56.214	31.635	0.00	0.00
ATOM	1424	CB	LEU	X	93	35.886	58.077	32.036	0.00	0.00
ATOM	1425	HB2	LEU	X	93	35.791	59.086	31.636	0.00	0.00
ATOM	1426	HB3	LEU	X	93	34.856	57.724	31.980	0.00	0.00
ATOM	1427	CG	LEU	X	93	36.510	58.142	33.418	0.00	0.00
ATOM	1428	HG	LEU	X	93	37.505	58.578	33.319	0.00	0.00
ATOM	1429	CD1	LEU	X	93	35.782	59.052	34.430	0.00	0.00
ATOM	1430	HD11	LEU	X	93	36.238	59.069	35.420	0.00	0.00
ATOM	1431	HD12	LEU	X	93	34.743	58.754	34.569	0.00	0.00
ATOM	1432	HD13	LEU	X	93	35.661	60.060	34.034	0.00	0.00
ATOM	1433	CD2	LEU	X	93	36.635	56.797	34.097	0.00	0.00
ATOM	1434	HD21	LEU	X	93	37.580	56.326	33.828	0.00	0.00
ATOM	1435	HD22	LEU	X	93	36.821	56.766	35.171	0.00	0.00
ATOM	1436	HD23	LEU	X	93	35.824	56.104	33.872	0.00	0.00
ATOM	1437	C	LEU	X	93	35.862	56.829	29.882	0.00	0.00
ATOM	1438	O	LEU	X	93	35.249	57.684	29.222	0.00	0.00

ATOM	1439	N	TYR	X	94	35.705	55.513	29.746	0.00	0.00
ATOM	1440	H	TYR	X	94	36.265	54.911	30.334	0.00	0.00
ATOM	1441	CA	TYR	X	94	34.988	54.764	28.606	0.00	0.00
ATOM	1442	HA	TYR	X	94	34.116	55.264	28.185	0.00	0.00
ATOM	1443	CB	TYR	X	94	36.088	54.408	27.562	0.00	0.00
ATOM	1444	HB2	TYR	X	94	36.966	53.947	28.016	0.00	0.00
ATOM	1445	HB3	TYR	X	94	35.708	53.696	26.830	0.00	0.00
ATOM	1446	CG	TYR	X	94	36.562	55.648	26.812	0.00	0.00
ATOM	1447	CD1	TYR	X	94	35.637	56.139	25.826	0.00	0.00
ATOM	1448	HD1	TYR	X	94	34.720	55.610	25.615	0.00	0.00
ATOM	1449	CE1	TYR	X	94	35.906	57.348	25.192	0.00	0.00
ATOM	1450	HE1	TYR	X	94	35.235	57.845	24.507	0.00	0.00
ATOM	1451	CZ	TYR	X	94	37.115	57.954	25.412	0.00	0.00
ATOM	1452	OH	TYR	X	94	37.376	59.131	24.826	0.00	0.00
ATOM	1453	HH	TYR	X	94	38.277	59.462	24.836	0.00	0.00
ATOM	1454	CE2	TYR	X	94	38.096	57.469	26.287	0.00	0.00
ATOM	1455	HE2	TYR	X	94	38.987	58.064	26.422	0.00	0.00
ATOM	1456	CD2	TYR	X	94	37.780	56.315	26.984	0.00	0.00
ATOM	1457	HD2	TYR	X	94	38.480	56.002	27.743	0.00	0.00
ATOM	1458	C	TYR	X	94	34.451	53.389	29.116	0.00	0.00
ATOM	1459	O	TYR	X	94	35.008	52.791	30.059	0.00	0.00
ATOM	1460	N	LEU	X	95	33.437	52.832	28.428	0.00	0.00
ATOM	1461	H	LEU	X	95	33.032	53.411	27.706	0.00	0.00
ATOM	1462	CA	LEU	X	95	32.686	51.563	28.740	0.00	0.00
ATOM	1463	HA	LEU	X	95	33.392	50.915	29.260	0.00	0.00
ATOM	1464	CB	LEU	X	95	31.562	52.011	29.693	0.00	0.00
ATOM	1465	HB2	LEU	X	95	31.863	52.467	30.636	0.00	0.00
ATOM	1466	HB3	LEU	X	95	31.076	52.827	29.159	0.00	0.00
ATOM	1467	CG	LEU	X	95	30.492	50.926	30.007	0.00	0.00
ATOM	1468	HG	LEU	X	95	30.908	49.934	30.184	0.00	0.00
ATOM	1469	CD1	LEU	X	95	29.815	51.260	31.380	0.00	0.00
ATOM	1470	HD11	LEU	X	95	29.020	50.557	31.631	0.00	0.00
ATOM	1471	HD12	LEU	X	95	29.356	52.248	31.417	0.00	0.00
ATOM	1472	HD13	LEU	X	95	30.613	51.133	32.111	0.00	0.00
ATOM	1473	CD2	LEU	X	95	29.375	50.817	28.956	0.00	0.00
ATOM	1474	HD21	LEU	X	95	28.816	51.736	28.775	0.00	0.00
ATOM	1475	HD22	LEU	X	95	29.827	50.501	28.016	0.00	0.00
ATOM	1476	HD23	LEU	X	95	28.599	50.130	29.293	0.00	0.00
ATOM	1477	C	LEU	X	95	32.503	50.747	27.443	0.00	0.00
ATOM	1478	O	LEU	X	95	32.567	51.316	26.328	0.00	0.00
ATOM	1479	N	ASN	X	96	32.217	49.465	27.565	0.00	0.00
ATOM	1480	H	ASN	X	96	32.070	49.106	28.498	0.00	0.00
ATOM	1481	CA	ASN	X	96	32.224	48.580	26.414	0.00	0.00
ATOM	1482	HA	ASN	X	96	31.999	49.135	25.504	0.00	0.00
ATOM	1483	CB	ASN	X	96	33.646	47.996	26.399	0.00	0.00
ATOM	1484	HB2	ASN	X	96	33.850	47.385	27.278	0.00	0.00
ATOM	1485	HB3	ASN	X	96	33.763	47.273	25.592	0.00	0.00
ATOM	1486	CG	ASN	X	96	34.914	48.912	26.327	0.00	0.00
ATOM	1487	OD1	ASN	X	96	35.042	49.835	25.494	0.00	0.00
ATOM	1488	ND2	ASN	X	96	35.740	48.728	27.340	0.00	0.00
ATOM	1489	HD21	ASN	X	96	36.596	49.264	27.364	0.00	0.00
ATOM	1490	HD22	ASN	X	96	35.574	47.931	27.938	0.00	0.00
ATOM	1491	C	ASN	X	96	31.186	47.534	26.627	0.00	0.00
ATOM	1492	O	ASN	X	96	31.040	46.985	27.708	0.00	0.00
ATOM	1493	N	VAL	X	97	30.376	47.198	25.630	0.00	0.00
ATOM	1494	H	VAL	X	97	30.391	47.590	24.700	0.00	0.00
ATOM	1495	CA	VAL	X	97	29.311	46.150	25.843	0.00	0.00
ATOM	1496	HA	VAL	X	97	29.485	45.588	26.761	0.00	0.00
ATOM	1497	CB	VAL	X	97	27.912	46.714	25.932	0.00	0.00
ATOM	1498	HB	VAL	X	97	27.587	46.913	24.911	0.00	0.00
ATOM	1499	CG1	VAL	X	97	26.871	45.721	26.558	0.00	0.00
ATOM	1500	HG11	VAL	X	97	27.203	45.589	27.588	0.00	0.00
ATOM	1501	HG12	VAL	X	97	25.843	46.061	26.439	0.00	0.00
ATOM	1502	HG13	VAL	X	97	26.917	44.729	26.108	0.00	0.00
ATOM	1503	CG2	VAL	X	97	27.792	48.069	26.769	0.00	0.00
ATOM	1504	HG21	VAL	X	97	28.441	48.788	26.270	0.00	0.00
ATOM	1505	HG22	VAL	X	97	28.203	47.928	27.768	0.00	0.00

ATOM	1506	HG23	VAL	X	97	26.741	48.348	26.854	0.00	0.00
ATOM	1507	C	VAL	X	97	29.325	45.157	24.649	0.00	0.00
ATOM	1508	O	VAL	X	97	29.052	45.612	23.540	0.00	0.00
ATOM	1509	N	TRP	X	98	29.396	43.880	24.961	0.00	0.00
ATOM	1510	H	TRP	X	98	29.556	43.707	25.943	0.00	0.00
ATOM	1511	CA	TRP	X	98	29.120	42.712	24.106	0.00	0.00
ATOM	1512	HA	TRP	X	98	29.154	43.030	23.064	0.00	0.00
ATOM	1513	CB	TRP	X	98	30.140	41.564	24.384	0.00	0.00
ATOM	1514	HB2	TRP	X	98	30.082	41.398	25.460	0.00	0.00
ATOM	1515	HB3	TRP	X	98	29.760	40.741	23.778	0.00	0.00
ATOM	1516	CG	TRP	X	98	31.598	41.720	24.121	0.00	0.00
ATOM	1517	CD1	TRP	X	98	32.333	41.147	23.113	0.00	0.00
ATOM	1518	HD1	TRP	X	98	31.958	40.297	22.563	0.00	0.00
ATOM	1519	NE1	TRP	X	98	33.600	41.560	23.074	0.00	0.00
ATOM	1520	HE1	TRP	X	98	34.314	40.994	22.639	0.00	0.00
ATOM	1521	CE2	TRP	X	98	33.838	42.481	24.112	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	34.973	43.237	24.470	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	35.917	43.177	23.950	0.00	0.00
ATOM	1524	CH2	TRP	X	98	34.799	44.256	25.441	0.00	0.00
ATOM	1525	HH2	TRP	X	98	35.660	44.818	25.772	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	33.574	44.381	26.078	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	33.447	45.067	26.903	0.00	0.00
ATOM	1528	CE3	TRP	X	98	32.538	43.562	25.772	0.00	0.00
ATOM	1529	HE3	TRP	X	98	31.679	43.534	26.426	0.00	0.00
ATOM	1530	CD2	TRP	X	98	32.568	42.610	24.765	0.00	0.00
ATOM	1531	C	TRP	X	98	27.680	42.127	24.242	0.00	0.00
ATOM	1532	O	TRP	X	98	27.132	42.090	25.341	0.00	0.00
ATOM	1533	N	THR	X	99	27.135	41.695	23.126	0.00	0.00
ATOM	1534	H	THR	X	99	27.620	41.838	22.251	0.00	0.00
ATOM	1535	CA	THR	X	99	25.673	41.268	23.129	0.00	0.00
ATOM	1536	HA	THR	X	99	25.604	40.622	24.003	0.00	0.00
ATOM	1537	CB	THR	X	99	24.624	42.406	23.305	0.00	0.00
ATOM	1538	HB	THR	X	99	24.703	42.748	24.337	0.00	0.00
ATOM	1539	CG2	THR	X	99	24.823	43.679	22.435	0.00	0.00
ATOM	1540	HG21	THR	X	99	24.118	44.448	22.753	0.00	0.00
ATOM	1541	HG22	THR	X	99	24.711	43.337	21.406	0.00	0.00
ATOM	1542	HG23	THR	X	99	25.824	44.089	22.565	0.00	0.00
ATOM	1543	OG1	THR	X	99	23.401	41.798	23.150	0.00	0.00
ATOM	1544	HG1	THR	X	99	22.805	42.469	23.489	0.00	0.00
ATOM	1545	C	THR	X	99	25.524	40.365	21.871	0.00	0.00
ATOM	1546	O	THR	X	99	25.996	40.715	20.785	0.00	0.00
ATOM	1547	N	PRO	X	100	24.782	39.240	21.953	0.00	0.00
ATOM	1548	CD	PRO	X	100	24.300	38.651	23.237	0.00	0.00
ATOM	1549	HD2	PRO	X	100	23.261	38.972	23.309	0.00	0.00
ATOM	1550	HD3	PRO	X	100	24.986	38.867	24.056	0.00	0.00
ATOM	1551	CG	PRO	X	100	24.164	37.120	23.042	0.00	0.00
ATOM	1552	HG2	PRO	X	100	23.341	36.671	23.598	0.00	0.00
ATOM	1553	HG3	PRO	X	100	25.126	36.649	23.248	0.00	0.00
ATOM	1554	CB	PRO	X	100	23.836	37.127	21.499	0.00	0.00
ATOM	1555	HB2	PRO	X	100	22.757	37.186	21.359	0.00	0.00
ATOM	1556	HB3	PRO	X	100	24.041	36.168	21.023	0.00	0.00
ATOM	1557	CA	PRO	X	100	24.601	38.281	20.836	0.00	0.00
ATOM	1558	HA	PRO	X	100	25.578	37.935	20.497	0.00	0.00
ATOM	1559	C	PRO	X	100	23.869	38.969	19.645	0.00	0.00
ATOM	1560	O	PRO	X	100	23.201	39.995	19.829	0.00	0.00
ATOM	1561	N	TYR	X	101	24.089	38.496	18.429	0.00	0.00
ATOM	1562	H	TYR	X	101	24.698	37.695	18.349	0.00	0.00
ATOM	1563	CA	TYR	X	101	23.762	39.045	17.259	0.00	0.00
ATOM	1564	HA	TYR	X	101	23.436	40.071	17.432	0.00	0.00
ATOM	1565	CB	TYR	X	101	25.049	39.206	16.462	0.00	0.00
ATOM	1566	HB2	TYR	X	101	25.768	39.756	17.069	0.00	0.00
ATOM	1567	HB3	TYR	X	101	25.464	38.245	16.155	0.00	0.00
ATOM	1568	CG	TYR	X	101	24.808	40.031	15.198	0.00	0.00
ATOM	1569	CD1	TYR	X	101	25.120	39.532	13.917	0.00	0.00
ATOM	1570	HD1	TYR	X	101	25.442	38.503	13.844	0.00	0.00
ATOM	1571	CE1	TYR	X	101	25.041	40.400	12.827	0.00	0.00
ATOM	1572	HE1	TYR	X	101	25.256	40.030	11.836	0.00	0.00

ATOM	1573	CZ	TYR	X	101	24.592	41.719	12.953	0.00	0.00
ATOM	1574	OH	TYR	X	101	24.284	42.498	11.913	0.00	0.00
ATOM	1575	HH	TYR	X	101	24.428	42.150	11.030	0.00	0.00
ATOM	1576	CE2	TYR	X	101	24.230	42.147	14.212	0.00	0.00
ATOM	1577	HE2	TYR	X	101	23.861	43.157	14.311	0.00	0.00
ATOM	1578	CD2	TYR	X	101	24.354	41.314	15.356	0.00	0.00
ATOM	1579	HD2	TYR	X	101	24.116	41.706	16.334	0.00	0.00
ATOM	1580	C	TYR	X	101	22.712	38.210	16.492	0.00	0.00
ATOM	1581	O	TYR	X	101	22.979	36.944	16.475	0.00	0.00
ATOM	1582	N	PRO	X	102	21.603	38.785	16.036	0.00	0.00
ATOM	1583	CD	PRO	X	102	20.602	37.982	15.339	0.00	0.00
ATOM	1584	HD2	PRO	X	102	20.224	37.164	15.953	0.00	0.00
ATOM	1585	HD3	PRO	X	102	21.076	37.556	14.455	0.00	0.00
ATOM	1586	CG	PRO	X	102	19.442	38.873	14.812	0.00	0.00
ATOM	1587	HG2	PRO	X	102	18.465	38.629	15.228	0.00	0.00
ATOM	1588	HG3	PRO	X	102	19.268	38.972	13.740	0.00	0.00
ATOM	1589	CB	PRO	X	102	19.921	40.283	15.272	0.00	0.00
ATOM	1590	HB2	PRO	X	102	19.066	40.773	15.737	0.00	0.00
ATOM	1591	HB3	PRO	X	102	20.371	40.778	14.412	0.00	0.00
ATOM	1592	CA	PRO	X	102	21.011	40.092	16.330	0.00	0.00
ATOM	1593	HA	PRO	X	102	21.668	40.948	16.176	0.00	0.00
ATOM	1594	C	PRO	X	102	20.431	40.170	17.771	0.00	0.00
ATOM	1595	O	PRO	X	102	20.324	39.114	18.434	0.00	0.00
ATOM	1596	N	ARG	X	103	20.201	41.430	18.242	0.00	0.00
ATOM	1597	H	ARG	X	103	20.394	42.222	17.646	0.00	0.00
ATOM	1598	CA	ARG	X	103	20.034	41.673	19.698	0.00	0.00
ATOM	1599	HA	ARG	X	103	21.006	41.506	20.161	0.00	0.00
ATOM	1600	CB	ARG	X	103	19.689	43.113	20.014	0.00	0.00
ATOM	1601	HB2	ARG	X	103	20.377	43.753	19.460	0.00	0.00
ATOM	1602	HB3	ARG	X	103	18.701	43.282	19.586	0.00	0.00
ATOM	1603	CG	ARG	X	103	19.686	43.584	21.438	0.00	0.00
ATOM	1604	HG2	ARG	X	103	19.311	42.783	22.075	0.00	0.00
ATOM	1605	HG3	ARG	X	103	20.734	43.683	21.719	0.00	0.00
ATOM	1606	CD	ARG	X	103	18.877	44.901	21.763	0.00	0.00
ATOM	1607	HD2	ARG	X	103	19.152	45.163	22.785	0.00	0.00
ATOM	1608	HD3	ARG	X	103	19.214	45.731	21.142	0.00	0.00
ATOM	1609	NE	ARG	X	103	17.430	44.727	21.679	0.00	0.00
ATOM	1610	HE	ARG	X	103	17.180	44.074	20.949	0.00	0.00
ATOM	1611	CZ	ARG	X	103	16.507	45.555	22.236	0.00	0.00
ATOM	1612	NH1	ARG	X	103	16.800	46.621	22.868	0.00	0.00
ATOM	1613	HH11	ARG	X	103	17.773	46.849	23.016	0.00	0.00
ATOM	1614	HH12	ARG	X	103	16.162	47.064	23.513	0.00	0.00
ATOM	1615	NH2	ARG	X	103	15.237	45.321	22.155	0.00	0.00
ATOM	1616	HH21	ARG	X	103	14.953	44.477	21.677	0.00	0.00
ATOM	1617	HH22	ARG	X	103	14.584	45.937	22.617	0.00	0.00
ATOM	1618	C	ARG	X	103	19.125	40.644	20.314	0.00	0.00
ATOM	1619	O	ARG	X	103	17.940	40.536	19.874	0.00	0.00
ATOM	1620	N	PRO	X	104	19.554	39.914	21.366	0.00	0.00
ATOM	1621	CD	PRO	X	104	20.737	40.155	22.240	0.00	0.00
ATOM	1622	HD2	PRO	X	104	21.023	41.201	22.346	0.00	0.00
ATOM	1623	HD3	PRO	X	104	21.507	39.472	21.881	0.00	0.00
ATOM	1624	CG	PRO	X	104	20.413	39.724	23.656	0.00	0.00
ATOM	1625	HG2	PRO	X	104	20.017	40.539	24.263	0.00	0.00
ATOM	1626	HG3	PRO	X	104	21.308	39.382	24.177	0.00	0.00
ATOM	1627	CB	PRO	X	104	19.536	38.524	23.380	0.00	0.00
ATOM	1628	HB2	PRO	X	104	18.931	38.151	24.207	0.00	0.00
ATOM	1629	HB3	PRO	X	104	20.196	37.780	22.933	0.00	0.00
ATOM	1630	CA	PRO	X	104	18.720	39.073	22.211	0.00	0.00
ATOM	1631	HA	PRO	X	104	18.490	38.179	21.631	0.00	0.00
ATOM	1632	C	PRO	X	104	17.364	39.734	22.599	0.00	0.00
ATOM	1633	O	PRO	X	104	17.326	40.983	22.865	0.00	0.00
ATOM	1634	N	THR	X	105	16.339	38.998	22.552	0.00	0.00
ATOM	1635	H	THR	X	105	16.474	38.034	22.284	0.00	0.00
ATOM	1636	CA	THR	X	105	14.997	39.591	22.474	0.00	0.00
ATOM	1637	HA	THR	X	105	15.036	40.662	22.276	0.00	0.00
ATOM	1638	CB	THR	X	105	14.240	39.030	21.273	0.00	0.00
ATOM	1639	HB	THR	X	105	13.224	39.424	21.264	0.00	0.00

ATOM	1640	CG2	THR	X	105	14.824	39.557	19.976	0.00	0.00
ATOM	1641	HG21	THR	X	105	14.189	39.215	19.158	0.00	0.00
ATOM	1642	HG22	THR	X	105	15.866	39.273	19.824	0.00	0.00
ATOM	1643	HG23	THR	X	105	14.755	40.644	19.964	0.00	0.00
ATOM	1644	OG1	THR	X	105	14.209	37.575	21.266	0.00	0.00
ATOM	1645	HG1	THR	X	105	13.368	37.401	20.836	0.00	0.00
ATOM	1646	C	THR	X	105	14.299	39.526	23.857	0.00	0.00
ATOM	1647	O	THR	X	105	13.589	40.482	24.138	0.00	0.00
ATOM	1648	N	SER	X	106	14.628	38.514	24.692	0.00	0.00
ATOM	1649	H	SER	X	106	15.112	37.736	24.267	0.00	0.00
ATOM	1650	CA	SER	X	106	14.494	38.475	26.099	0.00	0.00
ATOM	1651	HA	SER	X	106	13.495	38.826	26.356	0.00	0.00
ATOM	1652	CB	SER	X	106	14.380	37.045	26.460	0.00	0.00
ATOM	1653	HB2	SER	X	106	13.674	36.533	25.806	0.00	0.00
ATOM	1654	HB3	SER	X	106	15.325	36.504	26.494	0.00	0.00
ATOM	1655	OG	SER	X	106	13.874	36.916	27.755	0.00	0.00
ATOM	1656	HG	SER	X	106	13.029	37.366	27.825	0.00	0.00
ATOM	1657	C	SER	X	106	15.649	39.142	26.922	0.00	0.00
ATOM	1658	O	SER	X	106	16.813	38.888	26.580	0.00	0.00
ATOM	1659	N	PRO	X	107	15.371	39.925	28.015	0.00	0.00
ATOM	1660	CD	PRO	X	107	14.034	40.212	28.461	0.00	0.00
ATOM	1661	HD2	PRO	X	107	13.604	39.288	28.847	0.00	0.00
ATOM	1662	HD3	PRO	X	107	13.496	40.573	27.584	0.00	0.00
ATOM	1663	CG	PRO	X	107	14.242	41.296	29.536	0.00	0.00
ATOM	1664	HG2	PRO	X	107	13.345	41.310	30.155	0.00	0.00
ATOM	1665	HG3	PRO	X	107	14.378	42.284	29.095	0.00	0.00
ATOM	1666	CB	PRO	X	107	15.562	40.900	30.206	0.00	0.00
ATOM	1667	HB2	PRO	X	107	15.329	40.273	31.066	0.00	0.00
ATOM	1668	HB3	PRO	X	107	16.030	41.811	30.579	0.00	0.00
ATOM	1669	CA	PRO	X	107	16.356	40.363	29.032	0.00	0.00
ATOM	1670	HA	PRO	X	107	17.010	41.145	28.648	0.00	0.00
ATOM	1671	C	PRO	X	107	17.275	39.253	29.509	0.00	0.00
ATOM	1672	O	PRO	X	107	16.860	38.235	30.025	0.00	0.00
ATOM	1673	N	THR	X	108	18.606	39.444	29.430	0.00	0.00
ATOM	1674	H	THR	X	108	18.905	40.282	28.952	0.00	0.00
ATOM	1675	CA	THR	X	108	19.546	38.446	29.770	0.00	0.00
ATOM	1676	HA	THR	X	108	19.100	37.515	30.119	0.00	0.00
ATOM	1677	CB	THR	X	108	20.233	38.027	28.490	0.00	0.00
ATOM	1678	HB	THR	X	108	19.606	37.736	27.647	0.00	0.00
ATOM	1679	CG2	THR	X	108	21.439	38.915	28.062	0.00	0.00
ATOM	1680	HG21	THR	X	108	22.127	39.051	28.897	0.00	0.00
ATOM	1681	HG22	THR	X	108	20.975	39.857	27.768	0.00	0.00
ATOM	1682	HG23	THR	X	108	21.898	38.403	27.217	0.00	0.00
ATOM	1683	OG1	THR	X	108	20.966	36.861	28.824	0.00	0.00
ATOM	1684	HG1	THR	X	108	21.310	36.564	27.979	0.00	0.00
ATOM	1685	C	THR	X	108	20.552	38.935	30.848	0.00	0.00
ATOM	1686	O	THR	X	108	20.712	40.136	30.930	0.00	0.00
ATOM	1687	N	PRO	X	109	21.063	38.103	31.753	0.00	0.00
ATOM	1688	CD	PRO	X	109	20.742	36.706	31.975	0.00	0.00
ATOM	1689	HD2	PRO	X	109	21.121	36.093	31.157	0.00	0.00
ATOM	1690	HD3	PRO	X	109	19.660	36.583	31.936	0.00	0.00
ATOM	1691	CG	PRO	X	109	21.316	36.187	33.311	0.00	0.00
ATOM	1692	HG2	PRO	X	109	21.563	35.127	33.250	0.00	0.00
ATOM	1693	HG3	PRO	X	109	20.753	36.443	34.208	0.00	0.00
ATOM	1694	CB	PRO	X	109	22.613	37.034	33.356	0.00	0.00
ATOM	1695	HB2	PRO	X	109	23.305	36.566	32.657	0.00	0.00
ATOM	1696	HB3	PRO	X	109	23.043	37.265	34.331	0.00	0.00
ATOM	1697	CA	PRO	X	109	22.131	38.361	32.768	0.00	0.00
ATOM	1698	HA	PRO	X	109	21.621	38.880	33.580	0.00	0.00
ATOM	1699	C	PRO	X	109	23.272	39.266	32.251	0.00	0.00
ATOM	1700	O	PRO	X	109	23.664	39.165	31.078	0.00	0.00
ATOM	1701	N	VAL	X	110	23.760	40.181	33.074	0.00	0.00
ATOM	1702	H	VAL	X	110	23.327	40.201	33.986	0.00	0.00
ATOM	1703	CA	VAL	X	110	24.826	41.195	32.747	0.00	0.00
ATOM	1704	HA	VAL	X	110	25.097	41.147	31.692	0.00	0.00
ATOM	1705	CB	VAL	X	110	24.279	42.588	32.923	0.00	0.00
ATOM	1706	HB	VAL	X	110	23.955	42.572	33.963	0.00	0.00

ATOM	1707	CG1	VAL	X	110	25.325	43.648	32.605	0.00	0.00
ATOM	1708	HG11	VAL	X	110	25.692	43.543	31.584	0.00	0.00
ATOM	1709	HG12	VAL	X	110	24.942	44.661	32.733	0.00	0.00
ATOM	1710	HG13	VAL	X	110	26.104	43.483	33.350	0.00	0.00
ATOM	1711	CG2	VAL	X	110	22.998	42.836	32.048	0.00	0.00
ATOM	1712	HG21	VAL	X	110	22.159	42.271	32.456	0.00	0.00
ATOM	1713	HG22	VAL	X	110	23.089	42.680	30.974	0.00	0.00
ATOM	1714	HG23	VAL	X	110	22.765	43.897	32.140	0.00	0.00
ATOM	1715	C	VAL	X	110	26.074	40.970	33.605	0.00	0.00
ATOM	1716	O	VAL	X	110	25.910	41.048	34.787	0.00	0.00
ATOM	1717	N	LEU	X	111	27.235	40.735	32.978	0.00	0.00
ATOM	1718	H	LEU	X	111	27.199	40.503	31.996	0.00	0.00
ATOM	1719	CA	LEU	X	111	28.536	40.610	33.701	0.00	0.00
ATOM	1720	HA	LEU	X	111	28.420	40.275	34.732	0.00	0.00
ATOM	1721	CB	LEU	X	111	29.405	39.521	33.152	0.00	0.00
ATOM	1722	HB2	LEU	X	111	29.821	39.937	32.235	0.00	0.00
ATOM	1723	HB3	LEU	X	111	30.290	39.363	33.768	0.00	0.00
ATOM	1724	CG	LEU	X	111	28.766	38.163	32.953	0.00	0.00
ATOM	1725	HG	LEU	X	111	27.785	38.245	32.483	0.00	0.00
ATOM	1726	CD1	LEU	X	111	29.599	37.288	32.019	0.00	0.00
ATOM	1727	HD11	LEU	X	111	29.071	36.363	31.787	0.00	0.00
ATOM	1728	HD12	LEU	X	111	30.627	37.180	32.366	0.00	0.00
ATOM	1729	HD13	LEU	X	111	29.538	37.735	31.026	0.00	0.00
ATOM	1730	CD2	LEU	X	111	28.613	37.536	34.343	0.00	0.00
ATOM	1731	HD21	LEU	X	111	29.518	37.645	34.942	0.00	0.00
ATOM	1732	HD22	LEU	X	111	27.852	38.067	34.915	0.00	0.00
ATOM	1733	HD23	LEU	X	111	28.341	36.484	34.257	0.00	0.00
ATOM	1734	C	LEU	X	111	29.208	41.928	33.618	0.00	0.00
ATOM	1735	O	LEU	X	111	29.361	42.344	32.451	0.00	0.00
ATOM	1736	N	VAL	X	112	29.531	42.582	34.671	0.00	0.00
ATOM	1737	H	VAL	X	112	29.227	42.188	35.549	0.00	0.00
ATOM	1738	CA	VAL	X	112	30.265	43.892	34.749	0.00	0.00
ATOM	1739	HA	VAL	X	112	30.216	44.376	33.774	0.00	0.00
ATOM	1740	CB	VAL	X	112	29.597	44.814	35.836	0.00	0.00
ATOM	1741	HB	VAL	X	112	29.580	44.367	36.830	0.00	0.00
ATOM	1742	CG1	VAL	X	112	30.248	46.255	35.955	0.00	0.00
ATOM	1743	HG11	VAL	X	112	30.593	46.708	35.026	0.00	0.00
ATOM	1744	HG12	VAL	X	112	29.503	46.889	36.434	0.00	0.00
ATOM	1745	HG13	VAL	X	112	31.146	46.151	36.565	0.00	0.00
ATOM	1746	CG2	VAL	X	112	28.151	44.994	35.384	0.00	0.00
ATOM	1747	HG21	VAL	X	112	27.685	45.546	36.200	0.00	0.00
ATOM	1748	HG22	VAL	X	112	27.643	44.040	35.239	0.00	0.00
ATOM	1749	HG23	VAL	X	112	28.219	45.440	34.391	0.00	0.00
ATOM	1750	C	VAL	X	112	31.707	43.720	35.123	0.00	0.00
ATOM	1751	O	VAL	X	112	31.976	43.506	36.314	0.00	0.00
ATOM	1752	N	TRP	X	113	32.572	43.757	34.118	0.00	0.00
ATOM	1753	H	TRP	X	113	32.266	43.963	33.178	0.00	0.00
ATOM	1754	CA	TRP	X	113	33.998	43.366	34.296	0.00	0.00
ATOM	1755	HA	TRP	X	113	33.965	42.505	34.964	0.00	0.00
ATOM	1756	CB	TRP	X	113	34.621	42.887	32.966	0.00	0.00
ATOM	1757	HB2	TRP	X	113	34.276	41.897	32.670	0.00	0.00
ATOM	1758	HB3	TRP	X	113	34.320	43.616	32.213	0.00	0.00
ATOM	1759	CG	TRP	X	113	36.117	42.621	33.031	0.00	0.00
ATOM	1760	CD1	TRP	X	113	37.152	43.350	32.496	0.00	0.00
ATOM	1761	HD1	TRP	X	113	37.041	44.125	31.752	0.00	0.00
ATOM	1762	NE1	TRP	X	113	38.297	42.736	32.799	0.00	0.00
ATOM	1763	HE1	TRP	X	113	39.136	43.002	32.302	0.00	0.00
ATOM	1764	CE2	TRP	X	113	38.213	41.658	33.621	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	39.116	40.719	34.168	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	40.191	40.806	34.121	0.00	0.00
ATOM	1767	CH2	TRP	X	113	38.555	39.708	34.965	0.00	0.00
ATOM	1768	HH2	TRP	X	113	39.193	38.969	35.428	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	37.150	39.618	35.162	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	36.771	38.866	35.840	0.00	0.00
ATOM	1771	CE3	TRP	X	113	36.336	40.578	34.656	0.00	0.00
ATOM	1772	HE3	TRP	X	113	35.334	40.595	35.057	0.00	0.00
ATOM	1773	CD2	TRP	X	113	36.831	41.597	33.835	0.00	0.00

ATOM	1774	C	TRP	X	113	34.637	44.543	34.970	0.00	0.00
ATOM	1775	O	TRP	X	113	34.571	45.698	34.486	0.00	0.00
ATOM	1776	N	ILE	X	114	35.411	44.225	36.022	0.00	0.00
ATOM	1777	H	ILE	X	114	35.327	43.257	36.299	0.00	0.00
ATOM	1778	CA	ILE	X	114	36.473	45.095	36.570	0.00	0.00
ATOM	1779	HA	ILE	X	114	36.564	46.021	36.001	0.00	0.00
ATOM	1780	CB	ILE	X	114	36.200	45.418	38.075	0.00	0.00
ATOM	1781	HB	ILE	X	114	36.538	44.601	38.714	0.00	0.00
ATOM	1782	CG2	ILE	X	114	36.949	46.733	38.307	0.00	0.00
ATOM	1783	HG21	ILE	X	114	36.552	47.561	37.721	0.00	0.00
ATOM	1784	HG22	ILE	X	114	37.999	46.583	38.054	0.00	0.00
ATOM	1785	HG23	ILE	X	114	36.963	46.883	39.387	0.00	0.00
ATOM	1786	CG1	ILE	X	114	34.660	45.696	38.426	0.00	0.00
ATOM	1787	HG12	ILE	X	114	34.359	46.414	37.662	0.00	0.00
ATOM	1788	HG13	ILE	X	114	34.130	44.754	38.290	0.00	0.00
ATOM	1789	CD1	ILE	X	114	34.329	46.282	39.840	0.00	0.00
ATOM	1790	HD11	ILE	X	114	34.339	47.365	39.710	0.00	0.00
ATOM	1791	HD12	ILE	X	114	35.070	46.025	40.596	0.00	0.00
ATOM	1792	HD13	ILE	X	114	33.295	46.053	40.100	0.00	0.00
ATOM	1793	C	ILE	X	114	37.758	44.241	36.481	0.00	0.00
ATOM	1794	O	ILE	X	114	37.983	43.271	37.160	0.00	0.00
ATOM	1795	N	TYR	X	115	38.662	44.809	35.692	0.00	0.00
ATOM	1796	H	TYR	X	115	38.403	45.574	35.086	0.00	0.00
ATOM	1797	CA	TYR	X	115	40.114	44.460	35.624	0.00	0.00
ATOM	1798	HA	TYR	X	115	40.177	43.421	35.299	0.00	0.00
ATOM	1799	CB	TYR	X	115	40.725	45.221	34.425	0.00	0.00
ATOM	1800	HB2	TYR	X	115	41.801	45.058	34.487	0.00	0.00
ATOM	1801	HB3	TYR	X	115	40.303	44.837	33.496	0.00	0.00
ATOM	1802	CG	TYR	X	115	40.556	46.744	34.342	0.00	0.00
ATOM	1803	CD1	TYR	X	115	41.364	47.619	35.131	0.00	0.00
ATOM	1804	HD1	TYR	X	115	41.945	47.201	35.940	0.00	0.00
ATOM	1805	CE1	TYR	X	115	41.641	48.986	34.811	0.00	0.00
ATOM	1806	HE1	TYR	X	115	42.307	49.544	35.452	0.00	0.00
ATOM	1807	CZ	TYR	X	115	40.830	49.529	33.778	0.00	0.00
ATOM	1808	OH	TYR	X	115	40.908	50.845	33.361	0.00	0.00
ATOM	1809	HH	TYR	X	115	41.430	51.407	33.939	0.00	0.00
ATOM	1810	CE2	TYR	X	115	40.001	48.694	32.991	0.00	0.00
ATOM	1811	HE2	TYR	X	115	39.435	49.126	32.178	0.00	0.00
ATOM	1812	CD2	TYR	X	115	39.911	47.300	33.226	0.00	0.00
ATOM	1813	HD2	TYR	X	115	39.543	46.668	32.431	0.00	0.00
ATOM	1814	C	TYR	X	115	40.945	44.541	36.883	0.00	0.00
ATOM	1815	O	TYR	X	115	40.648	45.394	37.772	0.00	0.00
ATOM	1816	N	GLY	X	116	42.065	43.793	36.937	0.00	0.00
ATOM	1817	H	GLY	X	116	42.204	43.189	36.140	0.00	0.00
ATOM	1818	CA	GLY	X	116	43.064	43.915	37.977	0.00	0.00
ATOM	1819	HA2	GLY	X	116	42.787	44.209	38.989	0.00	0.00
ATOM	1820	HA3	GLY	X	116	43.641	43.000	38.109	0.00	0.00
ATOM	1821	C	GLY	X	116	44.167	44.931	37.529	0.00	0.00
ATOM	1822	O	GLY	X	116	43.965	45.698	36.627	0.00	0.00
ATOM	1823	N	GLY	X	117	45.287	44.952	38.237	0.00	0.00
ATOM	1824	H	GLY	X	117	45.332	44.277	38.987	0.00	0.00
ATOM	1825	CA	GLY	X	117	46.525	45.505	37.888	0.00	0.00
ATOM	1826	HA2	GLY	X	117	47.166	44.690	37.553	0.00	0.00
ATOM	1827	HA3	GLY	X	117	46.514	46.131	36.996	0.00	0.00
ATOM	1828	C	GLY	X	117	47.275	46.243	39.005	0.00	0.00
ATOM	1829	O	GLY	X	117	48.091	47.123	38.792	0.00	0.00
ATOM	1830	N	GLY	X	118	47.069	45.741	40.222	0.00	0.00
ATOM	1831	H	GLY	X	118	46.437	44.958	40.316	0.00	0.00
ATOM	1832	CA	GLY	X	118	47.655	46.228	41.597	0.00	0.00
ATOM	1833	HA2	GLY	X	118	47.197	45.555	42.323	0.00	0.00
ATOM	1834	HA3	GLY	X	118	48.744	46.251	41.558	0.00	0.00
ATOM	1835	C	GLY	X	118	47.162	47.689	41.856	0.00	0.00
ATOM	1836	O	GLY	X	118	47.736	48.323	42.715	0.00	0.00
ATOM	1837	N	PHE	X	119	46.193	48.205	41.188	0.00	0.00
ATOM	1838	H	PHE	X	119	45.820	47.637	40.441	0.00	0.00
ATOM	1839	CA	PHE	X	119	45.558	49.554	41.261	0.00	0.00
ATOM	1840	HA	PHE	X	119	44.604	49.492	40.739	0.00	0.00

ATOM	1841	CB	PHE	X	119	45.330	50.063	42.727	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.295	49.961	43.225	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.037	51.109	42.631	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.407	49.166	43.596	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.024	49.168	43.351	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.608	49.872	42.645	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.124	48.416	44.170	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.071	48.630	44.059	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.634	47.505	45.101	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.006	46.806	45.632	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.994	47.557	45.379	0.00	0.00
ATOM	1852	HE2	PHE	X	119	44.420	46.914	46.135	0.00	0.00
ATOM	1853	CD2	PHE	X	119	44.882	48.335	44.612	0.00	0.00
ATOM	1854	HD2	PHE	X	119	45.914	48.332	44.930	0.00	0.00
ATOM	1855	C	PHE	X	119	46.489	50.492	40.495	0.00	0.00
ATOM	1856	O	PHE	X	119	46.012	51.490	40.045	0.00	0.00
ATOM	1857	N	TYR	X	120	47.803	50.221	40.250	0.00	0.00
ATOM	1858	H	TYR	X	120	48.156	49.445	40.791	0.00	0.00
ATOM	1859	CA	TYR	X	120	48.694	51.108	39.544	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.453	52.141	39.794	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.077	50.957	40.232	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.761	51.774	40.006	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.038	51.035	41.318	0.00	0.00
ATOM	1864	CG	TYR	X	120	50.885	49.695	39.914	0.00	0.00
ATOM	1865	CD1	TYR	X	120	51.896	49.762	38.962	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.036	50.700	38.446	0.00	0.00
ATOM	1867	CE1	TYR	X	120	52.551	48.590	38.588	0.00	0.00
ATOM	1868	HE1	TYR	X	120	53.313	48.510	37.826	0.00	0.00
ATOM	1869	CZ	TYR	X	120	52.314	47.431	39.403	0.00	0.00
ATOM	1870	OH	TYR	X	120	53.064	46.299	39.231	0.00	0.00
ATOM	1871	HH	TYR	X	120	52.672	45.503	39.597	0.00	0.00
ATOM	1872	CE2	TYR	X	120	51.289	47.381	40.284	0.00	0.00
ATOM	1873	HE2	TYR	X	120	51.137	46.451	40.811	0.00	0.00
ATOM	1874	CD2	TYR	X	120	50.514	48.484	40.516	0.00	0.00
ATOM	1875	HD2	TYR	X	120	49.740	48.472	41.268	0.00	0.00
ATOM	1876	C	TYR	X	120	48.742	50.924	38.011	0.00	0.00
ATOM	1877	O	TYR	X	120	49.568	51.586	37.354	0.00	0.00
ATOM	1878	N	SER	X	121	47.877	50.091	37.390	0.00	0.00
ATOM	1879	H	SER	X	121	47.240	49.578	37.983	0.00	0.00
ATOM	1880	CA	SER	X	121	47.792	49.738	35.986	0.00	0.00
ATOM	1881	HA	SER	X	121	47.647	50.607	35.344	0.00	0.00
ATOM	1882	CB	SER	X	121	49.065	48.964	35.569	0.00	0.00
ATOM	1883	HB2	SER	X	121	49.001	48.808	34.492	0.00	0.00
ATOM	1884	HB3	SER	X	121	49.965	49.556	35.739	0.00	0.00
ATOM	1885	OG	SER	X	121	49.264	47.786	36.254	0.00	0.00
ATOM	1886	HG	SER	X	121	48.709	47.733	37.035	0.00	0.00
ATOM	1887	C	SER	X	121	46.610	48.784	35.788	0.00	0.00
ATOM	1888	O	SER	X	121	45.977	48.403	36.768	0.00	0.00
ATOM	1889	N	GLY	X	122	46.227	48.572	34.524	0.00	0.00
ATOM	1890	H	GLY	X	122	46.795	48.745	33.707	0.00	0.00
ATOM	1891	CA	GLY	X	122	44.963	47.951	34.095	0.00	0.00
ATOM	1892	HA2	GLY	X	122	45.217	47.028	33.574	0.00	0.00
ATOM	1893	HA3	GLY	X	122	44.289	47.792	34.937	0.00	0.00
ATOM	1894	C	GLY	X	122	44.303	48.755	32.968	0.00	0.00
ATOM	1895	O	GLY	X	122	44.574	49.881	32.827	0.00	0.00
ATOM	1896	N	ALA	X	123	43.528	48.058	32.129	0.00	0.00
ATOM	1897	H	ALA	X	123	43.233	47.159	32.482	0.00	0.00
ATOM	1898	CA	ALA	X	123	42.897	48.645	30.944	0.00	0.00
ATOM	1899	HA	ALA	X	123	42.350	49.482	31.380	0.00	0.00
ATOM	1900	CB	ALA	X	123	43.946	49.164	29.912	0.00	0.00
ATOM	1901	HB1	ALA	X	123	44.574	49.970	30.292	0.00	0.00
ATOM	1902	HB2	ALA	X	123	43.457	49.555	29.020	0.00	0.00
ATOM	1903	HB3	ALA	X	123	44.595	48.372	29.539	0.00	0.00
ATOM	1904	C	ALA	X	123	41.937	47.697	30.274	0.00	0.00
ATOM	1905	O	ALA	X	123	42.282	46.493	30.202	0.00	0.00
ATOM	1906	N	SER	X	124	40.806	48.230	29.775	0.00	0.00
ATOM	1907	H	SER	X	124	40.743	49.223	29.950	0.00	0.00

ATOM	1908	CA	SER	X	124	39.683	47.435	29.229	0.00	0.00
ATOM	1909	HA	SER	X	124	39.479	46.532	29.805	0.00	0.00
ATOM	1910	CB	SER	X	124	38.404	48.257	29.233	0.00	0.00
ATOM	1911	HB2	SER	X	124	37.423	47.782	29.223	0.00	0.00
ATOM	1912	HB3	SER	X	124	38.191	48.735	30.189	0.00	0.00
ATOM	1913	OG	SER	X	124	38.498	49.351	28.345	0.00	0.00
ATOM	1914	HG	SER	X	124	38.874	50.107	28.801	0.00	0.00
ATOM	1915	C	SER	X	124	39.919	46.964	27.781	0.00	0.00
ATOM	1916	O	SER	X	124	39.148	46.124	27.364	0.00	0.00
ATOM	1917	N	SER	X	125	40.957	47.433	27.138	0.00	0.00
ATOM	1918	H	SER	X	125	41.596	48.038	27.634	0.00	0.00
ATOM	1919	CA	SER	X	125	41.278	47.175	25.763	0.00	0.00
ATOM	1920	HA	SER	X	125	40.382	46.854	25.233	0.00	0.00
ATOM	1921	CB	SER	X	125	41.755	48.491	25.094	0.00	0.00
ATOM	1922	HB2	SER	X	125	41.943	48.339	24.031	0.00	0.00
ATOM	1923	HB3	SER	X	125	41.055	49.325	25.149	0.00	0.00
ATOM	1924	OG	SER	X	125	42.978	49.024	25.622	0.00	0.00
ATOM	1925	HG	SER	X	125	43.648	48.982	24.936	0.00	0.00
ATOM	1926	C	SER	X	125	42.070	45.896	25.523	0.00	0.00
ATOM	1927	O	SER	X	125	42.409	45.541	24.372	0.00	0.00
ATOM	1928	N	LEU	X	126	42.672	45.254	26.555	0.00	0.00
ATOM	1929	H	LEU	X	126	42.561	45.620	27.490	0.00	0.00
ATOM	1930	CA	LEU	X	126	43.516	44.094	26.367	0.00	0.00
ATOM	1931	HA	LEU	X	126	44.246	44.275	25.578	0.00	0.00
ATOM	1932	CB	LEU	X	126	44.236	43.858	27.720	0.00	0.00
ATOM	1933	HB2	LEU	X	126	43.501	43.420	28.395	0.00	0.00
ATOM	1934	HB3	LEU	X	126	45.012	43.137	27.461	0.00	0.00
ATOM	1935	CG	LEU	X	126	44.969	45.013	28.401	0.00	0.00
ATOM	1936	HG	LEU	X	126	44.240	45.823	28.412	0.00	0.00
ATOM	1937	CD1	LEU	X	126	45.412	44.553	29.807	0.00	0.00
ATOM	1938	HD11	LEU	X	126	44.460	44.435	30.326	0.00	0.00
ATOM	1939	HD12	LEU	X	126	46.107	45.294	30.201	0.00	0.00
ATOM	1940	HD13	LEU	X	126	45.909	43.595	29.656	0.00	0.00
ATOM	1941	CD2	LEU	X	126	46.234	45.367	27.606	0.00	0.00
ATOM	1942	HD21	LEU	X	126	46.649	46.257	28.081	0.00	0.00
ATOM	1943	HD22	LEU	X	126	46.942	44.540	27.650	0.00	0.00
ATOM	1944	HD23	LEU	X	126	46.201	45.651	26.554	0.00	0.00
ATOM	1945	C	LEU	X	126	42.652	42.840	26.012	0.00	0.00
ATOM	1946	O	LEU	X	126	41.641	42.572	26.629	0.00	0.00
ATOM	1947	N	ASP	X	127	43.098	42.152	25.031	0.00	0.00
ATOM	1948	H	ASP	X	127	44.024	42.349	24.679	0.00	0.00
ATOM	1949	CA	ASP	X	127	42.224	41.154	24.406	0.00	0.00
ATOM	1950	HA	ASP	X	127	41.311	41.646	24.072	0.00	0.00
ATOM	1951	CB	ASP	X	127	42.854	40.681	23.100	0.00	0.00
ATOM	1952	HB2	ASP	X	127	42.178	40.031	22.545	0.00	0.00
ATOM	1953	HB3	ASP	X	127	43.010	41.458	22.351	0.00	0.00
ATOM	1954	CG	ASP	X	127	44.141	39.905	23.263	0.00	0.00
ATOM	1955	OD1	ASP	X	127	45.227	40.480	23.511	0.00	0.00
ATOM	1956	OD2	ASP	X	127	44.146	38.690	22.932	0.00	0.00
ATOM	1957	C	ASP	X	127	41.826	39.991	25.314	0.00	0.00
ATOM	1958	O	ASP	X	127	40.945	39.257	24.884	0.00	0.00
ATOM	1959	N	VAL	X	128	42.514	39.745	26.426	0.00	0.00
ATOM	1960	H	VAL	X	128	43.346	40.313	26.499	0.00	0.00
ATOM	1961	CA	VAL	X	128	42.138	38.822	27.516	0.00	0.00
ATOM	1962	HA	VAL	X	128	42.157	37.824	27.078	0.00	0.00
ATOM	1963	CB	VAL	X	128	43.295	38.773	28.522	0.00	0.00
ATOM	1964	HB	VAL	X	128	44.130	38.602	27.843	0.00	0.00
ATOM	1965	CG1	VAL	X	128	43.621	40.147	29.198	0.00	0.00
ATOM	1966	HG11	VAL	X	128	42.781	40.397	29.846	0.00	0.00
ATOM	1967	HG12	VAL	X	128	44.560	40.025	29.737	0.00	0.00
ATOM	1968	HG13	VAL	X	128	43.754	40.865	28.388	0.00	0.00
ATOM	1969	CG2	VAL	X	128	43.191	37.698	29.576	0.00	0.00
ATOM	1970	HG21	VAL	X	128	44.138	37.450	30.055	0.00	0.00
ATOM	1971	HG22	VAL	X	128	42.739	36.794	29.169	0.00	0.00
ATOM	1972	HG23	VAL	X	128	42.550	38.093	30.363	0.00	0.00
ATOM	1973	C	VAL	X	128	40.853	39.136	28.258	0.00	0.00
ATOM	1974	O	VAL	X	128	40.076	38.263	28.650	0.00	0.00

ATOM	1975	N	TYR	X	129	40.476	40.404	28.274	0.00	0.00
ATOM	1976	H	TYR	X	129	41.151	41.027	27.853	0.00	0.00
ATOM	1977	CA	TYR	X	129	39.187	40.960	28.740	0.00	0.00
ATOM	1978	HA	TYR	X	129	38.688	40.282	29.432	0.00	0.00
ATOM	1979	CB	TYR	X	129	39.413	42.264	29.542	0.00	0.00
ATOM	1980	HB2	TYR	X	129	39.511	43.047	28.791	0.00	0.00
ATOM	1981	HB3	TYR	X	129	38.559	42.441	30.195	0.00	0.00
ATOM	1982	CG	TYR	X	129	40.658	42.313	30.427	0.00	0.00
ATOM	1983	CD1	TYR	X	129	40.854	41.265	31.334	0.00	0.00
ATOM	1984	HD1	TYR	X	129	40.155	40.443	31.380	0.00	0.00
ATOM	1985	CE1	TYR	X	129	41.857	41.331	32.332	0.00	0.00
ATOM	1986	HE1	TYR	X	129	41.974	40.566	33.085	0.00	0.00
ATOM	1987	CZ	TYR	X	129	42.470	42.575	32.521	0.00	0.00
ATOM	1988	OH	TYR	X	129	43.223	42.893	33.620	0.00	0.00
ATOM	1989	HH	TYR	X	129	43.234	42.285	34.363	0.00	0.00
ATOM	1990	CE2	TYR	X	129	42.269	43.600	31.580	0.00	0.00
ATOM	1991	HE2	TYR	X	129	42.578	44.618	31.763	0.00	0.00
ATOM	1992	CD2	TYR	X	129	41.385	43.479	30.496	0.00	0.00
ATOM	1993	HD2	TYR	X	129	41.134	44.310	29.853	0.00	0.00
ATOM	1994	C	TYR	X	129	38.091	41.148	27.626	0.00	0.00
ATOM	1995	O	TYR	X	129	37.283	42.070	27.757	0.00	0.00
ATOM	1996	N	ASP	X	130	38.214	40.467	26.518	0.00	0.00
ATOM	1997	H	ASP	X	130	39.026	39.871	26.450	0.00	0.00
ATOM	1998	CA	ASP	X	130	37.170	40.337	25.524	0.00	0.00
ATOM	1999	HA	ASP	X	130	36.610	41.272	25.516	0.00	0.00
ATOM	2000	CB	ASP	X	130	37.965	40.244	24.188	0.00	0.00
ATOM	2001	HB2	ASP	X	130	38.724	41.020	24.087	0.00	0.00
ATOM	2002	HB3	ASP	X	130	38.509	39.300	24.161	0.00	0.00
ATOM	2003	CG	ASP	X	130	36.924	40.401	23.023	0.00	0.00
ATOM	2004	OD1	ASP	X	130	35.931	39.676	22.970	0.00	0.00
ATOM	2005	OD2	ASP	X	130	37.223	41.153	22.099	0.00	0.00
ATOM	2006	C	ASP	X	130	36.123	39.217	25.807	0.00	0.00
ATOM	2007	O	ASP	X	130	36.509	38.043	26.008	0.00	0.00
ATOM	2008	N	GLY	X	131	34.829	39.516	25.827	0.00	0.00
ATOM	2009	H	GLY	X	131	34.557	40.484	25.725	0.00	0.00
ATOM	2010	CA	GLY	X	131	33.780	38.560	26.192	0.00	0.00
ATOM	2011	HA2	GLY	X	131	34.262	37.811	26.820	0.00	0.00
ATOM	2012	HA3	GLY	X	131	32.959	39.141	26.612	0.00	0.00
ATOM	2013	C	GLY	X	131	33.237	37.808	24.980	0.00	0.00
ATOM	2014	O	GLY	X	131	32.261	37.057	25.224	0.00	0.00
ATOM	2015	N	ARG	X	132	33.673	37.947	23.729	0.00	0.00
ATOM	2016	H	ARG	X	132	34.504	38.512	23.630	0.00	0.00
ATOM	2017	CA	ARG	X	132	33.008	37.274	22.511	0.00	0.00
ATOM	2018	HA	ARG	X	132	32.077	37.829	22.400	0.00	0.00
ATOM	2019	CB	ARG	X	132	33.842	37.530	21.236	0.00	0.00
ATOM	2020	HB2	ARG	X	132	33.307	37.274	20.322	0.00	0.00
ATOM	2021	HB3	ARG	X	132	33.940	38.615	21.267	0.00	0.00
ATOM	2022	CG	ARG	X	132	35.208	36.794	21.215	0.00	0.00
ATOM	2023	HG2	ARG	X	132	35.904	37.036	22.018	0.00	0.00
ATOM	2024	HG3	ARG	X	132	34.971	35.730	21.179	0.00	0.00
ATOM	2025	CD	ARG	X	132	36.048	37.255	20.005	0.00	0.00
ATOM	2026	HD2	ARG	X	132	36.765	36.451	19.836	0.00	0.00
ATOM	2027	HD3	ARG	X	132	35.463	37.366	19.092	0.00	0.00
ATOM	2028	NE	ARG	X	132	36.722	38.519	20.182	0.00	0.00
ATOM	2029	HE	ARG	X	132	36.532	38.946	21.077	0.00	0.00
ATOM	2030	CZ	ARG	X	132	37.179	39.243	19.161	0.00	0.00
ATOM	2031	NH1	ARG	X	132	37.302	38.871	17.913	0.00	0.00
ATOM	2032	HH11	ARG	X	132	37.054	37.917	17.691	0.00	0.00
ATOM	2033	HH12	ARG	X	132	37.562	39.493	17.161	0.00	0.00
ATOM	2034	NH2	ARG	X	132	37.639	40.404	19.412	0.00	0.00
ATOM	2035	HH21	ARG	X	132	37.639	40.770	20.353	0.00	0.00
ATOM	2036	HH22	ARG	X	132	38.064	40.914	18.650	0.00	0.00
ATOM	2037	C	ARG	X	132	32.597	35.823	22.727	0.00	0.00
ATOM	2038	O	ARG	X	132	31.485	35.456	22.420	0.00	0.00
ATOM	2039	N	PHE	X	133	33.529	34.945	23.334	0.00	0.00
ATOM	2040	H	PHE	X	133	34.391	35.307	23.714	0.00	0.00
ATOM	2041	CA	PHE	X	133	33.235	33.550	23.359	0.00	0.00

ATOM	2042	HA	PHE	X	133	32.708	33.356	22.425	0.00	0.00
ATOM	2043	CB	PHE	X	133	34.441	32.668	23.585	0.00	0.00
ATOM	2044	HB2	PHE	X	133	34.982	32.985	24.477	0.00	0.00
ATOM	2045	HB3	PHE	X	133	34.187	31.643	23.855	0.00	0.00
ATOM	2046	CG	PHE	X	133	35.397	32.623	22.418	0.00	0.00
ATOM	2047	CD1	PHE	X	133	36.671	33.180	22.643	0.00	0.00
ATOM	2048	HD1	PHE	X	133	36.951	33.469	23.645	0.00	0.00
ATOM	2049	CE1	PHE	X	133	37.540	33.175	21.522	0.00	0.00
ATOM	2050	HE1	PHE	X	133	38.502	33.650	21.647	0.00	0.00
ATOM	2051	CZ	PHE	X	133	37.226	32.573	20.287	0.00	0.00
ATOM	2052	HZ	PHE	X	133	37.968	32.510	19.504	0.00	0.00
ATOM	2053	CE2	PHE	X	133	35.912	32.121	20.048	0.00	0.00
ATOM	2054	HE2	PHE	X	133	35.664	31.623	19.122	0.00	0.00
ATOM	2055	CD2	PHE	X	133	34.988	32.215	21.096	0.00	0.00
ATOM	2056	HD2	PHE	X	133	34.041	31.727	20.920	0.00	0.00
ATOM	2057	C	PHE	X	133	32.190	33.164	24.418	0.00	0.00
ATOM	2058	O	PHE	X	133	31.314	32.374	24.145	0.00	0.00
ATOM	2059	N	LEU	X	134	32.288	33.749	25.652	0.00	0.00
ATOM	2060	H	LEU	X	134	33.094	34.332	25.825	0.00	0.00
ATOM	2061	CA	LEU	X	134	31.318	33.706	26.724	0.00	0.00
ATOM	2062	HA	LEU	X	134	31.169	32.686	27.080	0.00	0.00
ATOM	2063	CB	LEU	X	134	31.889	34.609	27.837	0.00	0.00
ATOM	2064	HB2	LEU	X	134	32.967	34.447	27.843	0.00	0.00
ATOM	2065	HB3	LEU	X	134	31.558	35.608	27.554	0.00	0.00
ATOM	2066	CG	LEU	X	134	31.344	34.363	29.214	0.00	0.00
ATOM	2067	HG	LEU	X	134	31.746	33.376	29.443	0.00	0.00
ATOM	2068	CD1	LEU	X	134	31.916	35.381	30.194	0.00	0.00
ATOM	2069	HD11	LEU	X	134	31.772	35.066	31.228	0.00	0.00
ATOM	2070	HD12	LEU	X	134	31.509	36.384	30.066	0.00	0.00
ATOM	2071	HD13	LEU	X	134	32.947	35.456	29.848	0.00	0.00
ATOM	2072	CD2	LEU	X	134	29.775	34.244	29.325	0.00	0.00
ATOM	2073	HD21	LEU	X	134	29.525	33.317	28.809	0.00	0.00
ATOM	2074	HD22	LEU	X	134	29.452	34.302	30.364	0.00	0.00
ATOM	2075	HD23	LEU	X	134	29.307	34.998	28.692	0.00	0.00
ATOM	2076	C	LEU	X	134	29.973	34.133	26.169	0.00	0.00
ATOM	2077	O	LEU	X	134	29.014	33.433	26.148	0.00	0.00
ATOM	2078	N	VAL	X	135	29.919	35.324	25.616	0.00	0.00
ATOM	2079	H	VAL	X	135	30.709	35.946	25.522	0.00	0.00
ATOM	2080	CA	VAL	X	135	28.606	35.877	25.151	0.00	0.00
ATOM	2081	HA	VAL	X	135	27.832	35.865	25.918	0.00	0.00
ATOM	2082	CB	VAL	X	135	28.729	37.364	24.660	0.00	0.00
ATOM	2083	HB	VAL	X	135	29.571	37.308	23.970	0.00	0.00
ATOM	2084	CG1	VAL	X	135	27.482	37.868	23.869	0.00	0.00
ATOM	2085	HG11	VAL	X	135	27.336	37.377	22.907	0.00	0.00
ATOM	2086	HG12	VAL	X	135	26.559	37.703	24.424	0.00	0.00
ATOM	2087	HG13	VAL	X	135	27.569	38.931	23.647	0.00	0.00
ATOM	2088	CG2	VAL	X	135	29.105	38.342	25.882	0.00	0.00
ATOM	2089	HG21	VAL	X	135	29.331	39.342	25.512	0.00	0.00
ATOM	2090	HG22	VAL	X	135	29.964	38.016	26.469	0.00	0.00
ATOM	2091	HG23	VAL	X	135	28.224	38.455	26.515	0.00	0.00
ATOM	2092	C	VAL	X	135	27.982	34.995	24.035	0.00	0.00
ATOM	2093	O	VAL	X	135	26.767	34.833	23.916	0.00	0.00
ATOM	2094	N	GLN	X	136	28.791	34.373	23.160	0.00	0.00
ATOM	2095	H	GLN	X	136	29.779	34.351	23.369	0.00	0.00
ATOM	2096	CA	GLN	X	136	28.408	33.540	22.003	0.00	0.00
ATOM	2097	HA	GLN	X	136	27.572	34.020	21.494	0.00	0.00
ATOM	2098	CB	GLN	X	136	29.649	33.188	21.107	0.00	0.00
ATOM	2099	HB2	GLN	X	136	30.031	34.147	20.758	0.00	0.00
ATOM	2100	HB3	GLN	X	136	30.383	32.694	21.744	0.00	0.00
ATOM	2101	CG	GLN	X	136	29.197	32.343	19.883	0.00	0.00
ATOM	2102	HG2	GLN	X	136	28.118	32.185	19.904	0.00	0.00
ATOM	2103	HG3	GLN	X	136	29.355	32.757	18.887	0.00	0.00
ATOM	2104	CD	GLN	X	136	29.801	30.926	19.913	0.00	0.00
ATOM	2105	OE1	GLN	X	136	30.952	30.728	19.497	0.00	0.00
ATOM	2106	NE2	GLN	X	136	29.075	29.936	20.555	0.00	0.00
ATOM	2107	HE21	GLN	X	136	29.510	29.038	20.716	0.00	0.00
ATOM	2108	HE22	GLN	X	136	28.168	30.150	20.945	0.00	0.00

ATOM	2109	C	GLN	X	136	27.820	32.209	22.454	0.00	0.00
ATOM	2110	O	GLN	X	136	26.844	31.736	21.868	0.00	0.00
ATOM	2111	N	ALA	X	137	28.428	31.546	23.415	0.00	0.00
ATOM	2112	H	ALA	X	137	29.314	31.866	23.779	0.00	0.00
ATOM	2113	CA	ALA	X	137	28.013	30.251	23.896	0.00	0.00
ATOM	2114	HA	ALA	X	137	27.690	29.620	23.068	0.00	0.00
ATOM	2115	CB	ALA	X	137	29.379	29.642	24.424	0.00	0.00
ATOM	2116	HB1	ALA	X	137	29.090	28.676	24.837	0.00	0.00
ATOM	2117	HB2	ALA	X	137	29.619	30.203	25.327	0.00	0.00
ATOM	2118	HB3	ALA	X	137	30.082	29.607	23.591	0.00	0.00
ATOM	2119	C	ALA	X	137	26.915	30.257	25.067	0.00	0.00
ATOM	2120	O	ALA	X	137	26.042	29.375	25.087	0.00	0.00
ATOM	2121	N	GLU	X	138	26.848	31.267	25.945	0.00	0.00
ATOM	2122	H	GLU	X	138	27.699	31.795	26.074	0.00	0.00
ATOM	2123	CA	GLU	X	138	25.986	31.372	27.092	0.00	0.00
ATOM	2124	HA	GLU	X	138	25.443	30.450	27.296	0.00	0.00
ATOM	2125	CB	GLU	X	138	26.882	31.843	28.321	0.00	0.00
ATOM	2126	HB2	GLU	X	138	27.311	32.839	28.209	0.00	0.00
ATOM	2127	HB3	GLU	X	138	26.354	32.145	29.226	0.00	0.00
ATOM	2128	CG	GLU	X	138	27.934	30.671	28.603	0.00	0.00
ATOM	2129	HG2	GLU	X	138	28.654	30.689	27.784	0.00	0.00
ATOM	2130	HG3	GLU	X	138	28.594	31.050	29.384	0.00	0.00
ATOM	2131	CD	GLU	X	138	27.324	29.245	28.804	0.00	0.00
ATOM	2132	OE1	GLU	X	138	26.219	29.127	29.417	0.00	0.00
ATOM	2133	OE2	GLU	X	138	28.004	28.289	28.460	0.00	0.00
ATOM	2134	C	GLU	X	138	24.796	32.419	26.937	0.00	0.00
ATOM	2135	O	GLU	X	138	23.911	32.483	27.825	0.00	0.00
ATOM	2136	N	ARG	X	139	24.884	33.311	25.940	0.00	0.00
ATOM	2137	H	ARG	X	139	25.740	33.411	25.414	0.00	0.00
ATOM	2138	CA	ARG	X	139	23.796	34.237	25.656	0.00	0.00
ATOM	2139	HA	ARG	X	139	24.227	34.959	24.963	0.00	0.00
ATOM	2140	CB	ARG	X	139	22.524	33.642	25.060	0.00	0.00
ATOM	2141	HB2	ARG	X	139	21.830	33.485	25.885	0.00	0.00
ATOM	2142	HB3	ARG	X	139	21.986	34.417	24.514	0.00	0.00
ATOM	2143	CG	ARG	X	139	22.720	32.425	24.133	0.00	0.00
ATOM	2144	HG2	ARG	X	139	23.307	32.700	23.257	0.00	0.00
ATOM	2145	HG3	ARG	X	139	23.144	31.597	24.700	0.00	0.00
ATOM	2146	CD	ARG	X	139	21.525	31.733	23.471	0.00	0.00
ATOM	2147	HD2	ARG	X	139	21.801	31.039	22.677	0.00	0.00
ATOM	2148	HD3	ARG	X	139	21.036	31.132	24.238	0.00	0.00
ATOM	2149	NE	ARG	X	139	20.571	32.645	22.858	0.00	0.00
ATOM	2150	HE	ARG	X	139	19.711	32.710	23.384	0.00	0.00
ATOM	2151	CZ	ARG	X	139	20.725	33.387	21.807	0.00	0.00
ATOM	2152	NH1	ARG	X	139	21.809	33.295	21.110	0.00	0.00
ATOM	2153	HH11	ARG	X	139	22.540	32.626	21.310	0.00	0.00
ATOM	2154	HH12	ARG	X	139	21.768	33.711	20.191	0.00	0.00
ATOM	2155	NH2	ARG	X	139	19.800	34.178	21.400	0.00	0.00
ATOM	2156	HH21	ARG	X	139	18.945	34.224	21.935	0.00	0.00
ATOM	2157	HH22	ARG	X	139	19.942	34.772	20.595	0.00	0.00
ATOM	2158	C	ARG	X	139	23.543	35.211	26.844	0.00	0.00
ATOM	2159	O	ARG	X	139	22.544	35.961	26.784	0.00	0.00
ATOM	2160	N	THR	X	140	24.451	35.321	27.791	0.00	0.00
ATOM	2161	H	THR	X	140	25.275	34.759	27.636	0.00	0.00
ATOM	2162	CA	THR	X	140	24.666	36.382	28.810	0.00	0.00
ATOM	2163	HA	THR	X	140	23.663	36.745	29.037	0.00	0.00
ATOM	2164	CB	THR	X	140	25.345	35.884	30.049	0.00	0.00
ATOM	2165	HB	THR	X	140	25.381	36.709	30.761	0.00	0.00
ATOM	2166	CG2	THR	X	140	24.464	34.715	30.617	0.00	0.00
ATOM	2167	HG21	THR	X	140	23.415	34.929	30.415	0.00	0.00
ATOM	2168	HG22	THR	X	140	24.544	34.704	31.704	0.00	0.00
ATOM	2169	HG23	THR	X	140	24.687	33.721	30.229	0.00	0.00
ATOM	2170	OG1	THR	X	140	26.623	35.409	29.682	0.00	0.00
ATOM	2171	HG1	THR	X	140	27.145	36.133	29.330	0.00	0.00
ATOM	2172	C	THR	X	140	25.473	37.541	28.190	0.00	0.00
ATOM	2173	O	THR	X	140	26.506	37.278	27.623	0.00	0.00
ATOM	2174	N	VAL	X	141	25.117	38.793	28.544	0.00	0.00
ATOM	2175	H	VAL	X	141	24.500	38.967	29.325	0.00	0.00

ATOM	2176	CA	VAL	X	141	25.831	40.006	28.155	0.00	0.00
ATOM	2177	HA	VAL	X	141	26.109	40.058	27.102	0.00	0.00
ATOM	2178	CB	VAL	X	141	24.852	41.195	28.417	0.00	0.00
ATOM	2179	HB	VAL	X	141	24.362	40.976	29.366	0.00	0.00
ATOM	2180	CG1	VAL	X	141	25.532	42.574	28.641	0.00	0.00
ATOM	2181	HG11	VAL	X	141	26.163	42.930	27.827	0.00	0.00
ATOM	2182	HG12	VAL	X	141	24.683	43.250	28.738	0.00	0.00
ATOM	2183	HG13	VAL	X	141	26.052	42.537	29.598	0.00	0.00
ATOM	2184	CG2	VAL	X	141	23.793	41.410	27.350	0.00	0.00
ATOM	2185	HG21	VAL	X	141	23.360	40.449	27.072	0.00	0.00
ATOM	2186	HG22	VAL	X	141	24.229	41.716	26.399	0.00	0.00
ATOM	2187	HG23	VAL	X	141	23.049	42.162	27.611	0.00	0.00
ATOM	2188	C	VAL	X	141	27.066	40.202	29.082	0.00	0.00
ATOM	2189	O	VAL	X	141	27.065	39.848	30.255	0.00	0.00
ATOM	2190	N	LEU	X	142	28.103	40.790	28.504	0.00	0.00
ATOM	2191	H	LEU	X	142	28.053	41.051	27.530	0.00	0.00
ATOM	2192	CA	LEU	X	142	29.192	41.306	29.334	0.00	0.00
ATOM	2193	HA	LEU	X	142	29.065	41.199	30.411	0.00	0.00
ATOM	2194	CB	LEU	X	142	30.461	40.455	29.050	0.00	0.00
ATOM	2195	HB2	LEU	X	142	30.311	39.416	29.344	0.00	0.00
ATOM	2196	HB3	LEU	X	142	30.673	40.441	27.981	0.00	0.00
ATOM	2197	CG	LEU	X	142	31.756	40.930	29.726	0.00	0.00
ATOM	2198	HG	LEU	X	142	31.504	41.338	30.705	0.00	0.00
ATOM	2199	CD1	LEU	X	142	32.624	39.702	30.030	0.00	0.00
ATOM	2200	HD11	LEU	X	142	32.111	39.095	30.776	0.00	0.00
ATOM	2201	HD12	LEU	X	142	33.557	39.939	30.541	0.00	0.00
ATOM	2202	HD13	LEU	X	142	32.862	39.122	29.138	0.00	0.00
ATOM	2203	CD2	LEU	X	142	32.640	42.019	28.996	0.00	0.00
ATOM	2204	HD21	LEU	X	142	32.172	43.001	28.926	0.00	0.00
ATOM	2205	HD22	LEU	X	142	33.579	42.141	29.536	0.00	0.00
ATOM	2206	HD23	LEU	X	142	32.962	41.725	27.997	0.00	0.00
ATOM	2207	C	LEU	X	142	29.430	42.775	28.997	0.00	0.00
ATOM	2208	O	LEU	X	142	29.487	43.181	27.842	0.00	0.00
ATOM	2209	N	VAL	X	143	29.365	43.607	29.986	0.00	0.00
ATOM	2210	H	VAL	X	143	29.221	43.174	30.887	0.00	0.00
ATOM	2211	CA	VAL	X	143	29.880	45.017	30.055	0.00	0.00
ATOM	2212	HA	VAL	X	143	29.818	45.434	29.050	0.00	0.00
ATOM	2213	CB	VAL	X	143	28.968	45.834	31.068	0.00	0.00
ATOM	2214	HB	VAL	X	143	28.873	45.269	31.995	0.00	0.00
ATOM	2215	CG1	VAL	X	143	29.525	47.210	31.571	0.00	0.00
ATOM	2216	HG11	VAL	X	143	28.871	47.541	32.379	0.00	0.00
ATOM	2217	HG12	VAL	X	143	30.486	47.051	32.062	0.00	0.00
ATOM	2218	HG13	VAL	X	143	29.653	47.889	30.729	0.00	0.00
ATOM	2219	CG2	VAL	X	143	27.494	46.016	30.576	0.00	0.00
ATOM	2220	HG21	VAL	X	143	27.025	46.663	31.317	0.00	0.00
ATOM	2221	HG22	VAL	X	143	26.962	45.065	30.552	0.00	0.00
ATOM	2222	HG23	VAL	X	143	27.518	46.552	29.627	0.00	0.00
ATOM	2223	C	VAL	X	143	31.283	45.008	30.581	0.00	0.00
ATOM	2224	O	VAL	X	143	31.616	44.258	31.489	0.00	0.00
ATOM	2225	N	SER	X	144	32.131	45.819	29.987	0.00	0.00
ATOM	2226	H	SER	X	144	31.908	46.400	29.191	0.00	0.00
ATOM	2227	CA	SER	X	144	33.346	46.257	30.757	0.00	0.00
ATOM	2228	HA	SER	X	144	33.295	46.063	31.828	0.00	0.00
ATOM	2229	CB	SER	X	144	34.591	45.502	30.226	0.00	0.00
ATOM	2230	HB2	SER	X	144	35.263	45.408	31.079	0.00	0.00
ATOM	2231	HB3	SER	X	144	34.333	44.495	29.898	0.00	0.00
ATOM	2232	OG	SER	X	144	35.191	46.163	29.184	0.00	0.00
ATOM	2233	HG	SER	X	144	35.984	45.685	28.929	0.00	0.00
ATOM	2234	C	SER	X	144	33.549	47.765	30.660	0.00	0.00
ATOM	2235	O	SER	X	144	32.733	48.493	30.090	0.00	0.00
ATOM	2236	N	MET	X	145	34.691	48.262	31.207	0.00	0.00
ATOM	2237	H	MET	X	145	35.345	47.525	31.425	0.00	0.00
ATOM	2238	CA	MET	X	145	34.918	49.705	31.390	0.00	0.00
ATOM	2239	HA	MET	X	145	34.671	50.129	30.416	0.00	0.00
ATOM	2240	CB	MET	X	145	33.830	50.337	32.338	0.00	0.00
ATOM	2241	HB2	MET	X	145	34.119	51.309	32.739	0.00	0.00
ATOM	2242	HB3	MET	X	145	32.852	50.446	31.869	0.00	0.00

ATOM	2243	CG	MET	X	145	33.684	49.370	33.517	0.00	0.00
ATOM	2244	HG2	MET	X	145	32.952	48.614	33.234	0.00	0.00
ATOM	2245	HG3	MET	X	145	34.583	48.845	33.840	0.00	0.00
ATOM	2246	SD	MET	X	145	33.236	50.292	35.009	0.00	0.00
ATOM	2247	CE	MET	X	145	32.954	48.838	36.059	0.00	0.00
ATOM	2248	HE1	MET	X	145	32.026	48.345	35.772	0.00	0.00
ATOM	2249	HE2	MET	X	145	33.813	48.167	36.063	0.00	0.00
ATOM	2250	HE3	MET	X	145	32.871	49.212	37.080	0.00	0.00
ATOM	2251	C	MET	X	145	36.343	49.995	31.764	0.00	0.00
ATOM	2252	O	MET	X	145	37.062	49.183	32.323	0.00	0.00
ATOM	2253	N	ASN	X	146	36.768	51.262	31.612	0.00	0.00
ATOM	2254	H	ASN	X	146	36.160	51.936	31.170	0.00	0.00
ATOM	2255	CA	ASN	X	146	37.991	51.840	32.195	0.00	0.00
ATOM	2256	HA	ASN	X	146	38.705	51.041	32.396	0.00	0.00
ATOM	2257	CB	ASN	X	146	38.658	52.817	31.254	0.00	0.00
ATOM	2258	HB2	ASN	X	146	37.976	53.581	30.882	0.00	0.00
ATOM	2259	HB3	ASN	X	146	39.345	53.427	31.841	0.00	0.00
ATOM	2260	CG	ASN	X	146	39.546	52.132	30.109	0.00	0.00
ATOM	2261	OD1	ASN	X	146	39.847	50.967	30.101	0.00	0.00
ATOM	2262	ND2	ASN	X	146	39.813	52.899	29.072	0.00	0.00
ATOM	2263	HD21	ASN	X	146	40.651	52.686	28.551	0.00	0.00
ATOM	2264	HD22	ASN	X	146	39.358	53.796	28.983	0.00	0.00
ATOM	2265	C	ASN	X	146	37.671	52.688	33.496	0.00	0.00
ATOM	2266	O	ASN	X	146	36.800	53.573	33.497	0.00	0.00
ATOM	2267	N	TYR	X	147	38.444	52.463	34.520	0.00	0.00
ATOM	2268	H	TYR	X	147	39.198	51.791	34.521	0.00	0.00
ATOM	2269	CA	TYR	X	147	38.529	53.418	35.701	0.00	0.00
ATOM	2270	HA	TYR	X	147	37.929	54.309	35.513	0.00	0.00
ATOM	2271	CB	TYR	X	147	37.828	52.759	36.933	0.00	0.00
ATOM	2272	HB2	TYR	X	147	37.794	53.504	37.728	0.00	0.00
ATOM	2273	HB3	TYR	X	147	36.810	52.457	36.688	0.00	0.00
ATOM	2274	CG	TYR	X	147	38.659	51.587	37.336	0.00	0.00
ATOM	2275	CD1	TYR	X	147	38.419	50.312	36.786	0.00	0.00
ATOM	2276	HD1	TYR	X	147	37.621	50.106	36.088	0.00	0.00
ATOM	2277	CE1	TYR	X	147	39.240	49.262	37.207	0.00	0.00
ATOM	2278	HE1	TYR	X	147	39.184	48.283	36.755	0.00	0.00
ATOM	2279	CZ	TYR	X	147	40.430	49.521	37.983	0.00	0.00
ATOM	2280	OH	TYR	X	147	41.434	48.563	38.200	0.00	0.00
ATOM	2281	HH	TYR	X	147	42.226	48.963	38.567	0.00	0.00
ATOM	2282	CE2	TYR	X	147	40.624	50.805	38.556	0.00	0.00
ATOM	2283	HE2	TYR	X	147	41.492	51.123	39.114	0.00	0.00
ATOM	2284	CD2	TYR	X	147	39.709	51.840	38.223	0.00	0.00
ATOM	2285	HD2	TYR	X	147	39.878	52.846	38.577	0.00	0.00
ATOM	2286	C	TYR	X	147	39.946	53.999	35.781	0.00	0.00
ATOM	2287	O	TYR	X	147	40.959	53.313	35.458	0.00	0.00
ATOM	2288	N	ARG	X	148	40.066	55.268	36.305	0.00	0.00
ATOM	2289	H	ARG	X	148	39.232	55.813	36.473	0.00	0.00
ATOM	2290	CA	ARG	X	148	41.296	55.966	36.627	0.00	0.00
ATOM	2291	HA	ARG	X	148	41.763	56.013	35.643	0.00	0.00
ATOM	2292	CB	ARG	X	148	40.972	57.354	37.153	0.00	0.00
ATOM	2293	HB2	ARG	X	148	40.261	57.320	37.978	0.00	0.00
ATOM	2294	HB3	ARG	X	148	41.923	57.664	37.585	0.00	0.00
ATOM	2295	CG	ARG	X	148	40.434	58.357	36.092	0.00	0.00
ATOM	2296	HG2	ARG	X	148	41.288	58.455	35.421	0.00	0.00
ATOM	2297	HG3	ARG	X	148	39.517	57.940	35.675	0.00	0.00
ATOM	2298	CD	ARG	X	148	40.143	59.633	36.839	0.00	0.00
ATOM	2299	HD2	ARG	X	148	40.921	59.805	37.582	0.00	0.00
ATOM	2300	HD3	ARG	X	148	40.151	60.326	35.998	0.00	0.00
ATOM	2301	NE	ARG	X	148	38.834	59.638	37.588	0.00	0.00
ATOM	2302	HE	ARG	X	148	38.301	58.786	37.483	0.00	0.00
ATOM	2303	CZ	ARG	X	148	38.352	60.713	38.281	0.00	0.00
ATOM	2304	NH1	ARG	X	148	38.968	61.858	38.395	0.00	0.00
ATOM	2305	HH11	ARG	X	148	39.907	62.037	38.068	0.00	0.00
ATOM	2306	HH12	ARG	X	148	38.648	62.511	39.096	0.00	0.00
ATOM	2307	NH2	ARG	X	148	37.225	60.570	38.889	0.00	0.00
ATOM	2308	HH21	ARG	X	148	36.676	59.732	38.766	0.00	0.00
ATOM	2309	HH22	ARG	X	148	36.937	61.342	39.474	0.00	0.00

ATOM	2310	C	ARG	X	148	42.189	55.159	37.665	0.00	0.00
ATOM	2311	O	ARG	X	148	41.572	54.698	38.619	0.00	0.00
ATOM	2312	N	VAL	X	149	43.499	54.926	37.364	0.00	0.00
ATOM	2313	H	VAL	X	149	43.914	55.556	36.692	0.00	0.00
ATOM	2314	CA	VAL	X	149	44.416	54.054	38.046	0.00	0.00
ATOM	2315	HA	VAL	X	149	43.914	53.543	38.869	0.00	0.00
ATOM	2316	CB	VAL	X	149	44.908	52.805	37.178	0.00	0.00
ATOM	2317	HB	VAL	X	149	45.673	52.204	37.671	0.00	0.00
ATOM	2318	CG1	VAL	X	149	43.856	51.689	37.105	0.00	0.00
ATOM	2319	HG11	VAL	X	149	43.511	51.428	38.105	0.00	0.00
ATOM	2320	HG12	VAL	X	149	42.973	52.055	36.581	0.00	0.00
ATOM	2321	HG13	VAL	X	149	44.256	50.822	36.577	0.00	0.00
ATOM	2322	CG2	VAL	X	149	45.470	53.233	35.835	0.00	0.00
ATOM	2323	HG21	VAL	X	149	46.253	53.966	36.029	0.00	0.00
ATOM	2324	HG22	VAL	X	149	44.736	53.634	35.135	0.00	0.00
ATOM	2325	HG23	VAL	X	149	45.855	52.360	35.307	0.00	0.00
ATOM	2326	C	VAL	X	149	45.547	54.862	38.681	0.00	0.00
ATOM	2327	O	VAL	X	149	45.740	56.070	38.407	0.00	0.00
ATOM	2328	N	GLY	X	150	46.254	54.230	39.629	0.00	0.00
ATOM	2329	H	GLY	X	150	46.107	53.231	39.672	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.332	54.788	40.385	0.00	0.00
ATOM	2331	HA2	GLY	X	150	47.461	54.012	41.140	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.205	55.084	39.804	0.00	0.00
ATOM	2333	C	GLY	X	150	46.892	56.089	41.101	0.00	0.00
ATOM	2334	O	GLY	X	150	45.763	56.226	41.526	0.00	0.00
ATOM	2335	N	ALA	X	151	47.815	57.019	41.124	0.00	0.00
ATOM	2336	H	ALA	X	151	48.694	56.823	40.666	0.00	0.00
ATOM	2337	CA	ALA	X	151	47.624	58.403	41.778	0.00	0.00
ATOM	2338	HA	ALA	X	151	47.475	58.213	42.840	0.00	0.00
ATOM	2339	CB	ALA	X	151	48.920	59.173	41.556	0.00	0.00
ATOM	2340	HB1	ALA	X	151	49.703	58.584	42.035	0.00	0.00
ATOM	2341	HB2	ALA	X	151	48.827	60.186	41.946	0.00	0.00
ATOM	2342	HB3	ALA	X	151	49.073	59.379	40.497	0.00	0.00
ATOM	2343	C	ALA	X	151	46.341	59.070	41.214	0.00	0.00
ATOM	2344	O	ALA	X	151	45.498	59.620	41.946	0.00	0.00
ATOM	2345	N	PHE	X	152	46.025	58.876	39.881	0.00	0.00
ATOM	2346	H	PHE	X	152	46.703	58.411	39.295	0.00	0.00
ATOM	2347	CA	PHE	X	152	44.827	59.508	39.295	0.00	0.00
ATOM	2348	HA	PHE	X	152	44.749	60.589	39.407	0.00	0.00
ATOM	2349	CB	PHE	X	152	44.870	59.226	37.792	0.00	0.00
ATOM	2350	HB2	PHE	X	152	45.908	59.465	37.561	0.00	0.00
ATOM	2351	HB3	PHE	X	152	44.690	58.160	37.647	0.00	0.00
ATOM	2352	CG	PHE	X	152	43.968	60.010	36.791	0.00	0.00
ATOM	2353	CD1	PHE	X	152	43.852	59.552	35.510	0.00	0.00
ATOM	2354	HD1	PHE	X	152	44.311	58.594	35.316	0.00	0.00
ATOM	2355	CE1	PHE	X	152	43.146	60.234	34.486	0.00	0.00
ATOM	2356	HE1	PHE	X	152	43.080	59.960	33.443	0.00	0.00
ATOM	2357	CZ	PHE	X	152	42.647	61.501	34.778	0.00	0.00
ATOM	2358	HZ	PHE	X	152	42.085	62.021	34.016	0.00	0.00
ATOM	2359	CE2	PHE	X	152	42.764	62.057	36.078	0.00	0.00
ATOM	2360	HE2	PHE	X	152	42.300	63.018	36.246	0.00	0.00
ATOM	2361	CD2	PHE	X	152	43.360	61.286	37.108	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.525	61.666	38.105	0.00	0.00
ATOM	2363	C	PHE	X	152	43.489	58.987	39.866	0.00	0.00
ATOM	2364	O	PHE	X	152	42.473	59.691	39.823	0.00	0.00
ATOM	2365	N	GLY	X	153	43.597	57.880	40.540	0.00	0.00
ATOM	2366	H	GLY	X	153	44.454	57.349	40.474	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.447	57.165	41.029	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.506	57.640	40.749	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.293	56.168	40.618	0.00	0.00
ATOM	2370	C	GLY	X	153	42.377	57.062	42.559	0.00	0.00
ATOM	2371	O	GLY	X	153	41.293	56.858	43.147	0.00	0.00
ATOM	2372	N	PHE	X	154	43.482	57.346	43.240	0.00	0.00
ATOM	2373	H	PHE	X	154	44.337	57.488	42.720	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.642	56.893	44.643	0.00	0.00
ATOM	2375	HA	PHE	X	154	42.649	56.930	45.092	0.00	0.00
ATOM	2376	CB	PHE	X	154	44.184	55.428	44.626	0.00	0.00

ATOM	2377	HB2	PHE	X	154	44.947	55.432	43.847	0.00	0.00
ATOM	2378	HB3	PHE	X	154	44.590	55.173	45.605	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.206	54.279	44.281	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.111	53.644	43.015	0.00	0.00
ATOM	2381	HD1	PHE	X	154	43.852	53.864	42.260	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.014	52.830	42.730	0.00	0.00
ATOM	2383	HE1	PHE	X	154	41.917	52.401	41.743	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.090	52.499	43.712	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.199	51.941	43.467	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.291	52.999	45.021	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.529	52.817	45.764	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.312	53.906	45.300	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.333	54.321	46.297	0.00	0.00
ATOM	2390	C	PHE	X	154	44.438	57.859	45.551	0.00	0.00
ATOM	2391	O	PHE	X	154	44.362	57.729	46.737	0.00	0.00
ATOM	2392	N	LEU	X	155	45.062	58.910	45.013	0.00	0.00
ATOM	2393	H	LEU	X	155	45.012	58.983	44.007	0.00	0.00
ATOM	2394	CA	LEU	X	155	45.852	59.960	45.707	0.00	0.00
ATOM	2395	HA	LEU	X	155	46.487	59.538	46.486	0.00	0.00
ATOM	2396	CB	LEU	X	155	46.720	60.797	44.771	0.00	0.00
ATOM	2397	HB2	LEU	X	155	47.345	60.005	44.359	0.00	0.00
ATOM	2398	HB3	LEU	X	155	46.150	61.119	43.899	0.00	0.00
ATOM	2399	CG	LEU	X	155	47.556	61.988	45.280	0.00	0.00
ATOM	2400	HG	LEU	X	155	47.962	61.832	46.280	0.00	0.00
ATOM	2401	CD1	LEU	X	155	48.766	62.105	44.306	0.00	0.00
ATOM	2402	HD11	LEU	X	155	49.450	62.926	44.518	0.00	0.00
ATOM	2403	HD12	LEU	X	155	48.412	62.271	43.288	0.00	0.00
ATOM	2404	HD13	LEU	X	155	49.322	61.168	44.281	0.00	0.00
ATOM	2405	CD2	LEU	X	155	46.834	63.315	45.125	0.00	0.00
ATOM	2406	HD21	LEU	X	155	46.409	63.363	44.123	0.00	0.00
ATOM	2407	HD22	LEU	X	155	46.056	63.358	45.888	0.00	0.00
ATOM	2408	HD23	LEU	X	155	47.441	64.190	45.359	0.00	0.00
ATOM	2409	C	LEU	X	155	44.834	60.885	46.495	0.00	0.00
ATOM	2410	O	LEU	X	155	43.838	61.420	46.001	0.00	0.00
ATOM	2411	N	ALA	X	156	45.237	61.088	47.740	0.00	0.00
ATOM	2412	H	ALA	X	156	46.114	60.717	48.076	0.00	0.00
ATOM	2413	CA	ALA	X	156	44.605	61.972	48.726	0.00	0.00
ATOM	2414	HA	ALA	X	156	43.833	62.629	48.324	0.00	0.00
ATOM	2415	CB	ALA	X	156	43.967	61.177	49.880	0.00	0.00
ATOM	2416	HB1	ALA	X	156	43.222	60.476	49.502	0.00	0.00
ATOM	2417	HB2	ALA	X	156	43.474	61.878	50.552	0.00	0.00
ATOM	2418	HB3	ALA	X	156	44.707	60.672	50.501	0.00	0.00
ATOM	2419	C	ALA	X	156	45.632	63.001	49.217	0.00	0.00
ATOM	2420	O	ALA	X	156	46.793	62.612	49.431	0.00	0.00
ATOM	2421	N	LEU	X	157	45.223	64.186	49.683	0.00	0.00
ATOM	2422	H	LEU	X	157	44.232	64.313	49.831	0.00	0.00
ATOM	2423	CA	LEU	X	157	46.167	65.020	50.421	0.00	0.00
ATOM	2424	HA	LEU	X	157	46.867	64.388	50.968	0.00	0.00
ATOM	2425	CB	LEU	X	157	46.988	65.749	49.421	0.00	0.00
ATOM	2426	HB2	LEU	X	157	47.573	65.117	48.753	0.00	0.00
ATOM	2427	HB3	LEU	X	157	46.334	66.360	48.798	0.00	0.00
ATOM	2428	CG	LEU	X	157	48.024	66.716	50.015	0.00	0.00
ATOM	2429	HG	LEU	X	157	47.587	67.338	50.797	0.00	0.00
ATOM	2430	CD1	LEU	X	157	49.140	66.042	50.714	0.00	0.00
ATOM	2431	HD11	LEU	X	157	49.644	66.781	51.337	0.00	0.00
ATOM	2432	HD12	LEU	X	157	49.972	65.770	50.064	0.00	0.00
ATOM	2433	HD13	LEU	X	157	48.828	65.216	51.354	0.00	0.00
ATOM	2434	CD2	LEU	X	157	48.637	67.714	48.942	0.00	0.00
ATOM	2435	HD21	LEU	X	157	49.461	68.281	49.375	0.00	0.00
ATOM	2436	HD22	LEU	X	157	48.985	67.217	48.036	0.00	0.00
ATOM	2437	HD23	LEU	X	157	47.827	68.376	48.636	0.00	0.00
ATOM	2438	C	LEU	X	157	45.435	65.885	51.493	0.00	0.00
ATOM	2439	O	LEU	X	157	44.909	66.934	51.087	0.00	0.00
ATOM	2440	N	PRO	X	158	45.532	65.466	52.772	0.00	0.00
ATOM	2441	CD	PRO	X	158	45.760	64.147	53.227	0.00	0.00
ATOM	2442	HD2	PRO	X	158	46.827	63.923	53.236	0.00	0.00
ATOM	2443	HD3	PRO	X	158	45.235	63.395	52.637	0.00	0.00

ATOM	2444	CG	PRO	X	158	45.289	64.041	54.646	0.00	0.00
ATOM	2445	HG2	PRO	X	158	45.827	63.296	55.232	0.00	0.00
ATOM	2446	HG3	PRO	X	158	44.268	63.670	54.560	0.00	0.00
ATOM	2447	CB	PRO	X	158	45.282	65.507	55.202	0.00	0.00
ATOM	2448	HB2	PRO	X	158	46.253	65.812	55.593	0.00	0.00
ATOM	2449	HB3	PRO	X	158	44.415	65.787	55.800	0.00	0.00
ATOM	2450	CA	PRO	X	158	45.090	66.302	53.875	0.00	0.00
ATOM	2451	HA	PRO	X	158	44.035	66.573	53.828	0.00	0.00
ATOM	2452	C	PRO	X	158	45.975	67.561	53.932	0.00	0.00
ATOM	2453	O	PRO	X	158	47.190	67.426	53.714	0.00	0.00
ATOM	2454	N	GLY	X	159	45.401	68.727	54.223	0.00	0.00
ATOM	2455	H	GLY	X	159	44.408	68.740	54.405	0.00	0.00
ATOM	2456	CA	GLY	X	159	46.212	69.954	54.081	0.00	0.00
ATOM	2457	HA2	GLY	X	159	45.904	70.541	54.947	0.00	0.00
ATOM	2458	HA3	GLY	X	159	47.289	69.888	53.929	0.00	0.00
ATOM	2459	C	GLY	X	159	45.685	70.829	52.966	0.00	0.00
ATOM	2460	O	GLY	X	159	45.610	72.050	53.200	0.00	0.00
ATOM	2461	N	SER	X	160	45.101	70.148	51.915	0.00	0.00
ATOM	2462	H	SER	X	160	45.226	69.148	51.984	0.00	0.00
ATOM	2463	CA	SER	X	160	44.210	70.705	50.928	0.00	0.00
ATOM	2464	HA	SER	X	160	43.948	71.700	51.287	0.00	0.00
ATOM	2465	CB	SER	X	160	44.970	70.857	49.578	0.00	0.00
ATOM	2466	HB2	SER	X	160	44.273	71.179	48.805	0.00	0.00
ATOM	2467	HB3	SER	X	160	45.603	71.730	49.740	0.00	0.00
ATOM	2468	OG	SER	X	160	45.697	69.746	49.253	0.00	0.00
ATOM	2469	HG	SER	X	160	46.403	69.651	49.897	0.00	0.00
ATOM	2470	C	SER	X	160	42.952	69.816	50.791	0.00	0.00
ATOM	2471	O	SER	X	160	42.884	68.796	51.435	0.00	0.00
ATOM	2472	N	ARG	X	161	41.959	70.258	49.972	0.00	0.00
ATOM	2473	H	ARG	X	161	42.116	71.090	49.421	0.00	0.00
ATOM	2474	CA	ARG	X	161	40.687	69.509	49.780	0.00	0.00
ATOM	2475	HA	ARG	X	161	40.747	68.559	50.312	0.00	0.00
ATOM	2476	CB	ARG	X	161	39.509	70.333	50.427	0.00	0.00
ATOM	2477	HB2	ARG	X	161	39.566	71.356	50.055	0.00	0.00
ATOM	2478	HB3	ARG	X	161	38.538	69.974	50.085	0.00	0.00
ATOM	2479	CG	ARG	X	161	39.425	70.585	51.959	0.00	0.00
ATOM	2480	HG2	ARG	X	161	38.621	71.290	52.173	0.00	0.00
ATOM	2481	HG3	ARG	X	161	39.255	69.587	52.364	0.00	0.00
ATOM	2482	CD	ARG	X	161	40.627	71.168	52.701	0.00	0.00
ATOM	2483	HD2	ARG	X	161	40.254	71.416	53.694	0.00	0.00
ATOM	2484	HD3	ARG	X	161	41.408	70.408	52.683	0.00	0.00
ATOM	2485	NE	ARG	X	161	41.113	72.371	52.011	0.00	0.00
ATOM	2486	HE	ARG	X	161	40.692	72.574	51.116	0.00	0.00
ATOM	2487	CZ	ARG	X	161	41.944	73.323	52.478	0.00	0.00
ATOM	2488	NH1	ARG	X	161	42.545	73.233	53.631	0.00	0.00
ATOM	2489	HH11	ARG	X	161	42.444	72.449	54.261	0.00	0.00
ATOM	2490	HH12	ARG	X	161	43.234	73.941	53.842	0.00	0.00
ATOM	2491	NH2	ARG	X	161	42.258	74.329	51.692	0.00	0.00
ATOM	2492	HH21	ARG	X	161	41.678	74.524	50.889	0.00	0.00
ATOM	2493	HH22	ARG	X	161	42.982	74.967	51.992	0.00	0.00
ATOM	2494	C	ARG	X	161	40.416	69.125	48.287	0.00	0.00
ATOM	2495	O	ARG	X	161	39.338	68.776	47.933	0.00	0.00
ATOM	2496	N	GLU	X	162	41.499	69.099	47.469	0.00	0.00
ATOM	2497	H	GLU	X	162	42.417	68.916	47.849	0.00	0.00
ATOM	2498	CA	GLU	X	162	41.406	68.910	45.978	0.00	0.00
ATOM	2499	HA	GLU	X	162	40.461	69.386	45.716	0.00	0.00
ATOM	2500	CB	GLU	X	162	42.611	69.718	45.317	0.00	0.00
ATOM	2501	HB2	GLU	X	162	43.579	69.389	45.694	0.00	0.00
ATOM	2502	HB3	GLU	X	162	42.738	69.545	44.249	0.00	0.00
ATOM	2503	CG	GLU	X	162	42.422	71.240	45.534	0.00	0.00
ATOM	2504	HG2	GLU	X	162	42.699	71.440	46.569	0.00	0.00
ATOM	2505	HG3	GLU	X	162	43.168	71.726	44.905	0.00	0.00
ATOM	2506	CD	GLU	X	162	41.073	71.824	45.127	0.00	0.00
ATOM	2507	OE1	GLU	X	162	40.505	71.480	44.045	0.00	0.00
ATOM	2508	OE2	GLU	X	162	40.604	72.753	45.850	0.00	0.00
ATOM	2509	C	GLU	X	162	41.427	67.400	45.584	0.00	0.00
ATOM	2510	O	GLU	X	162	41.606	67.125	44.401	0.00	0.00

ATOM	2511	N	ALA	X	163	41.534	66.451	46.557	0.00	0.00
ATOM	2512	H	ALA	X	163	41.402	66.727	47.519	0.00	0.00
ATOM	2513	CA	ALA	X	163	41.934	65.095	46.377	0.00	0.00
ATOM	2514	HA	ALA	X	163	41.315	64.678	45.583	0.00	0.00
ATOM	2515	CB	ALA	X	163	43.416	64.921	46.129	0.00	0.00
ATOM	2516	HB1	ALA	X	163	43.951	65.140	47.053	0.00	0.00
ATOM	2517	HB2	ALA	X	163	43.799	65.537	45.316	0.00	0.00
ATOM	2518	HB3	ALA	X	163	43.717	63.915	45.836	0.00	0.00
ATOM	2519	C	ALA	X	163	41.449	64.248	47.582	0.00	0.00
ATOM	2520	O	ALA	X	163	42.167	64.190	48.578	0.00	0.00
ATOM	2521	N	PRO	X	164	40.263	63.663	47.581	0.00	0.00
ATOM	2522	CD	PRO	X	164	39.271	63.636	46.487	0.00	0.00
ATOM	2523	HD2	PRO	X	164	39.574	63.211	45.530	0.00	0.00
ATOM	2524	HD3	PRO	X	164	38.774	64.587	46.293	0.00	0.00
ATOM	2525	CG	PRO	X	164	38.235	62.645	46.972	0.00	0.00
ATOM	2526	HG2	PRO	X	164	38.537	61.658	46.622	0.00	0.00
ATOM	2527	HG3	PRO	X	164	37.252	62.920	46.589	0.00	0.00
ATOM	2528	CB	PRO	X	164	38.318	62.619	48.495	0.00	0.00
ATOM	2529	HB2	PRO	X	164	38.009	61.622	48.810	0.00	0.00
ATOM	2530	HB3	PRO	X	164	37.697	63.394	48.943	0.00	0.00
ATOM	2531	CA	PRO	X	164	39.782	62.829	48.729	0.00	0.00
ATOM	2532	HA	PRO	X	164	39.966	63.352	49.667	0.00	0.00
ATOM	2533	C	PRO	X	164	40.573	61.554	48.854	0.00	0.00
ATOM	2534	O	PRO	X	164	40.535	60.924	49.917	0.00	0.00
ATOM	2535	N	GLY	X	165	41.126	61.082	47.725	0.00	0.00
ATOM	2536	H	GLY	X	165	41.283	61.748	46.981	0.00	0.00
ATOM	2537	CA	GLY	X	165	41.410	59.661	47.488	0.00	0.00
ATOM	2538	HA2	GLY	X	165	42.220	59.442	46.792	0.00	0.00
ATOM	2539	HA3	GLY	X	165	41.679	59.207	48.442	0.00	0.00
ATOM	2540	C	GLY	X	165	40.176	58.845	47.019	0.00	0.00
ATOM	2541	O	GLY	X	165	39.113	59.365	46.712	0.00	0.00
ATOM	2542	N	ASN	X	166	40.388	57.492	46.890	0.00	0.00
ATOM	2543	H	ASN	X	166	41.266	57.113	47.214	0.00	0.00
ATOM	2544	CA	ASN	X	166	39.386	56.474	46.501	0.00	0.00
ATOM	2545	HA	ASN	X	166	39.949	55.567	46.279	0.00	0.00
ATOM	2546	CB	ASN	X	166	38.428	56.142	47.685	0.00	0.00
ATOM	2547	HB2	ASN	X	166	37.869	57.024	47.998	0.00	0.00
ATOM	2548	HB3	ASN	X	166	37.749	55.398	47.268	0.00	0.00
ATOM	2549	CG	ASN	X	166	39.145	55.460	48.822	0.00	0.00
ATOM	2550	OD1	ASN	X	166	40.205	54.913	48.652	0.00	0.00
ATOM	2551	ND2	ASN	X	166	38.510	55.476	50.001	0.00	0.00
ATOM	2552	HD21	ASN	X	166	38.915	54.995	50.791	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.706	56.080	50.091	0.00	0.00
ATOM	2554	C	ASN	X	166	38.671	56.692	45.148	0.00	0.00
ATOM	2555	O	ASN	X	166	37.793	55.899	44.852	0.00	0.00
ATOM	2556	N	VAL	X	167	38.972	57.635	44.231	0.00	0.00
ATOM	2557	H	VAL	X	167	39.836	58.128	44.409	0.00	0.00
ATOM	2558	CA	VAL	X	167	38.115	58.168	43.174	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.117	58.178	43.612	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.432	59.616	42.794	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.788	59.824	41.939	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.259	60.655	43.943	0.00	0.00
ATOM	2563	HG11	VAL	X	167	39.125	60.609	44.603	0.00	0.00
ATOM	2564	HG12	VAL	X	167	38.261	61.676	43.562	0.00	0.00
ATOM	2565	HG13	VAL	X	167	37.342	60.494	44.510	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.876	59.798	42.244	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.546	59.790	43.103	0.00	0.00
ATOM	2568	HG22	VAL	X	167	39.926	60.818	41.863	0.00	0.00
ATOM	2569	HG23	VAL	X	167	39.984	59.111	41.404	0.00	0.00
ATOM	2570	C	VAL	X	167	37.931	57.154	41.928	0.00	0.00
ATOM	2571	O	VAL	X	167	36.923	57.237	41.237	0.00	0.00
ATOM	2572	N	GLY	X	168	38.809	56.150	41.726	0.00	0.00
ATOM	2573	H	GLY	X	168	39.621	56.221	42.321	0.00	0.00
ATOM	2574	CA	GLY	X	168	38.690	55.061	40.759	0.00	0.00
ATOM	2575	HA2	GLY	X	168	38.223	55.397	39.833	0.00	0.00
ATOM	2576	HA3	GLY	X	168	39.682	54.673	40.528	0.00	0.00
ATOM	2577	C	GLY	X	168	37.806	53.936	41.232	0.00	0.00

ATOM	2578	O	GLY	X	168	37.454	53.073	40.420	0.00	0.00
ATOM	2579	N	LEU	X	169	37.213	54.003	42.467	0.00	0.00
ATOM	2580	H	LEU	X	169	37.689	54.528	43.187	0.00	0.00
ATOM	2581	CA	LEU	X	169	35.987	53.212	42.854	0.00	0.00
ATOM	2582	HA	LEU	X	169	35.847	52.340	42.214	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.086	52.817	44.375	0.00	0.00
ATOM	2584	HB2	LEU	X	169	35.812	53.759	44.850	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.212	52.206	44.599	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.378	52.048	44.922	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.244	52.621	44.591	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.376	52.047	46.493	0.00	0.00
ATOM	2589	HD11	LEU	X	169	38.190	51.441	46.892	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.448	51.685	46.935	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.599	53.036	46.893	0.00	0.00
ATOM	2592	CD2	LEU	X	169	37.532	50.615	44.452	0.00	0.00
ATOM	2593	HD21	LEU	X	169	36.601	50.072	44.615	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.670	50.647	43.371	0.00	0.00
ATOM	2595	HD23	LEU	X	169	38.333	50.137	45.016	0.00	0.00
ATOM	2596	C	LEU	X	169	34.688	53.985	42.565	0.00	0.00
ATOM	2597	O	LEU	X	169	33.663	53.381	42.249	0.00	0.00
ATOM	2598	N	LEU	X	170	34.777	55.307	42.455	0.00	0.00
ATOM	2599	H	LEU	X	170	35.684	55.705	42.655	0.00	0.00
ATOM	2600	CA	LEU	X	170	33.656	56.177	42.162	0.00	0.00
ATOM	2601	HA	LEU	X	170	32.740	55.861	42.661	0.00	0.00
ATOM	2602	CB	LEU	X	170	33.967	57.527	42.756	0.00	0.00
ATOM	2603	HB2	LEU	X	170	34.648	58.068	42.100	0.00	0.00
ATOM	2604	HB3	LEU	X	170	32.999	58.008	42.898	0.00	0.00
ATOM	2605	CG	LEU	X	170	34.598	57.649	44.191	0.00	0.00
ATOM	2606	HG	LEU	X	170	35.568	57.156	44.118	0.00	0.00
ATOM	2607	CD1	LEU	X	170	34.685	59.135	44.446	0.00	0.00
ATOM	2608	HD11	LEU	X	170	35.019	59.719	43.588	0.00	0.00
ATOM	2609	HD12	LEU	X	170	35.241	59.372	45.353	0.00	0.00
ATOM	2610	HD13	LEU	X	170	33.664	59.462	44.644	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.587	56.984	45.156	0.00	0.00
ATOM	2612	HD21	LEU	X	170	34.004	57.012	46.163	0.00	0.00
ATOM	2613	HD22	LEU	X	170	32.560	57.338	45.067	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.559	55.937	44.855	0.00	0.00
ATOM	2615	C	LEU	X	170	33.409	56.140	40.660	0.00	0.00
ATOM	2616	O	LEU	X	170	32.286	56.212	40.270	0.00	0.00
ATOM	2617	N	ASP	X	171	34.487	55.999	39.815	0.00	0.00
ATOM	2618	H	ASP	X	171	35.388	56.164	40.242	0.00	0.00
ATOM	2619	CA	ASP	X	171	34.341	55.736	38.385	0.00	0.00
ATOM	2620	HA	ASP	X	171	33.831	56.572	37.908	0.00	0.00
ATOM	2621	CB	ASP	X	171	35.756	55.602	37.799	0.00	0.00
ATOM	2622	HB2	ASP	X	171	36.261	54.855	38.411	0.00	0.00
ATOM	2623	HB3	ASP	X	171	35.697	55.266	36.764	0.00	0.00
ATOM	2624	CG	ASP	X	171	36.597	56.894	37.815	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.011	58.001	37.778	0.00	0.00
ATOM	2626	OD2	ASP	X	171	37.830	56.733	37.660	0.00	0.00
ATOM	2627	C	ASP	X	171	33.537	54.476	38.067	0.00	0.00
ATOM	2628	O	ASP	X	171	32.783	54.430	37.100	0.00	0.00
ATOM	2629	N	GLN	X	172	33.718	53.452	38.874	0.00	0.00
ATOM	2630	H	GLN	X	172	34.241	53.587	39.727	0.00	0.00
ATOM	2631	CA	GLN	X	172	32.934	52.111	38.710	0.00	0.00
ATOM	2632	HA	GLN	X	172	32.825	51.929	37.641	0.00	0.00
ATOM	2633	CB	GLN	X	172	33.688	51.050	39.508	0.00	0.00
ATOM	2634	HB2	GLN	X	172	33.818	51.297	40.561	0.00	0.00
ATOM	2635	HB3	GLN	X	172	33.250	50.052	39.477	0.00	0.00
ATOM	2636	CG	GLN	X	172	35.157	50.818	38.952	0.00	0.00
ATOM	2637	HG2	GLN	X	172	35.108	50.234	38.033	0.00	0.00
ATOM	2638	HG3	GLN	X	172	35.644	51.791	38.890	0.00	0.00
ATOM	2639	CD	GLN	X	172	36.032	49.992	39.991	0.00	0.00
ATOM	2640	OE1	GLN	X	172	35.583	49.348	40.875	0.00	0.00
ATOM	2641	NE2	GLN	X	172	37.355	50.052	39.750	0.00	0.00
ATOM	2642	HE21	GLN	X	172	37.977	49.529	40.350	0.00	0.00
ATOM	2643	HE22	GLN	X	172	37.626	50.551	38.915	0.00	0.00
ATOM	2644	C	GLN	X	172	31.485	52.185	39.195	0.00	0.00

ATOM	2645	O	GLN	X	172	30.643	51.516	38.613	0.00	0.00
ATOM	2646	N	ARG	X	173	31.261	53.044	40.232	0.00	0.00
ATOM	2647	H	ARG	X	173	32.141	53.432	40.541	0.00	0.00
ATOM	2648	CA	ARG	X	173	29.948	53.489	40.772	0.00	0.00
ATOM	2649	HA	ARG	X	173	29.298	52.646	41.007	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.174	54.247	42.102	0.00	0.00
ATOM	2651	HB2	ARG	X	173	30.852	53.692	42.751	0.00	0.00
ATOM	2652	HB3	ARG	X	173	30.657	55.218	41.990	0.00	0.00
ATOM	2653	CG	ARG	X	173	28.905	54.508	42.909	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.218	55.174	42.388	0.00	0.00
ATOM	2655	HG3	ARG	X	173	28.320	53.591	42.982	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.086	55.107	44.350	0.00	0.00
ATOM	2657	HD2	ARG	X	173	29.652	56.035	44.262	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.104	55.360	44.750	0.00	0.00
ATOM	2659	NE	ARG	X	173	29.667	54.114	45.214	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.545	53.179	44.853	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.275	54.187	46.368	0.00	0.00
ATOM	2662	NH1	ARG	X	173	30.373	55.297	47.012	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.907	56.131	46.684	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.744	55.322	47.951	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.772	53.123	46.967	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.921	52.251	46.480	0.00	0.00
ATOM	2667	HH22	ARG	X	173	30.863	53.209	47.969	0.00	0.00
ATOM	2668	C	ARG	X	173	29.224	54.330	39.760	0.00	0.00
ATOM	2669	O	ARG	X	173	27.996	54.380	39.751	0.00	0.00
ATOM	2670	N	LEU	X	174	29.912	55.143	38.947	0.00	0.00
ATOM	2671	H	LEU	X	174	30.921	55.155	38.978	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.281	55.984	37.836	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.319	56.389	38.152	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.241	57.116	37.517	0.00	0.00
ATOM	2675	HB2	LEU	X	174	30.339	57.746	38.401	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.249	56.715	37.409	0.00	0.00
ATOM	2677	CG	LEU	X	174	29.811	57.982	36.368	0.00	0.00
ATOM	2678	HG	LEU	X	174	29.774	57.463	35.410	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.506	58.730	36.619	0.00	0.00
ATOM	2680	HD11	LEU	X	174	28.561	59.397	37.479	0.00	0.00
ATOM	2681	HD12	LEU	X	174	27.643	58.066	36.567	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.377	59.440	35.802	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.784	59.135	36.170	0.00	0.00
ATOM	2684	HD21	LEU	X	174	30.541	59.693	35.266	0.00	0.00
ATOM	2685	HD22	LEU	X	174	30.719	59.903	36.942	0.00	0.00
ATOM	2686	HD23	LEU	X	174	31.806	58.763	36.112	0.00	0.00
ATOM	2687	C	LEU	X	174	29.003	55.181	36.614	0.00	0.00
ATOM	2688	O	LEU	X	174	28.045	55.354	35.897	0.00	0.00
ATOM	2689	N	ALA	X	175	29.807	54.150	36.372	0.00	0.00
ATOM	2690	H	ALA	X	175	30.681	54.041	36.866	0.00	0.00
ATOM	2691	CA	ALA	X	175	29.559	53.148	35.341	0.00	0.00
ATOM	2692	HA	ALA	X	175	29.111	53.610	34.461	0.00	0.00
ATOM	2693	CB	ALA	X	175	30.823	52.366	34.988	0.00	0.00
ATOM	2694	HB1	ALA	X	175	31.553	53.086	34.619	0.00	0.00
ATOM	2695	HB2	ALA	X	175	30.604	51.655	34.191	0.00	0.00
ATOM	2696	HB3	ALA	X	175	31.202	51.926	35.910	0.00	0.00
ATOM	2697	C	ALA	X	175	28.357	52.213	35.787	0.00	0.00
ATOM	2698	O	ALA	X	175	27.364	52.007	35.017	0.00	0.00
ATOM	2699	N	LEU	X	176	28.323	51.792	37.002	0.00	0.00
ATOM	2700	H	LEU	X	176	29.091	52.134	37.562	0.00	0.00
ATOM	2701	CA	LEU	X	176	27.183	50.976	37.589	0.00	0.00
ATOM	2702	HA	LEU	X	176	27.111	50.038	37.039	0.00	0.00
ATOM	2703	CB	LEU	X	176	27.455	50.702	39.122	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.012	51.544	39.533	0.00	0.00
ATOM	2705	HB3	LEU	X	176	26.516	50.555	39.656	0.00	0.00
ATOM	2706	CG	LEU	X	176	28.408	49.462	39.264	0.00	0.00
ATOM	2707	HG	LEU	X	176	29.200	49.403	38.518	0.00	0.00
ATOM	2708	CD1	LEU	X	176	29.118	49.439	40.626	0.00	0.00
ATOM	2709	HD11	LEU	X	176	29.656	50.337	40.930	0.00	0.00
ATOM	2710	HD12	LEU	X	176	29.867	48.660	40.480	0.00	0.00
ATOM	2711	HD13	LEU	X	176	28.465	49.182	41.460	0.00	0.00

ATOM	2712	CD2	LEU	X	176	27.524	48.220	39.047	0.00	0.00
ATOM	2713	HD21	LEU	X	176	26.855	47.946	39.863	0.00	0.00
ATOM	2714	HD22	LEU	X	176	26.884	48.287	38.167	0.00	0.00
ATOM	2715	HD23	LEU	X	176	28.160	47.336	38.999	0.00	0.00
ATOM	2716	C	LEU	X	176	25.806	51.713	37.482	0.00	0.00
ATOM	2717	O	LEU	X	176	24.775	51.113	37.116	0.00	0.00
ATOM	2718	N	GLN	X	177	25.815	53.040	37.731	0.00	0.00
ATOM	2719	H	GLN	X	177	26.686	53.495	37.963	0.00	0.00
ATOM	2720	CA	GLN	X	177	24.717	53.971	37.514	0.00	0.00
ATOM	2721	HA	GLN	X	177	23.798	53.688	38.028	0.00	0.00
ATOM	2722	CB	GLN	X	177	25.076	55.389	37.775	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.150	55.522	37.642	0.00	0.00
ATOM	2724	HB3	GLN	X	177	24.492	56.064	37.150	0.00	0.00
ATOM	2725	CG	GLN	X	177	24.734	55.596	39.259	0.00	0.00
ATOM	2726	HG2	GLN	X	177	23.698	55.911	39.377	0.00	0.00
ATOM	2727	HG3	GLN	X	177	24.985	54.770	39.925	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.407	56.894	39.855	0.00	0.00
ATOM	2729	OE1	GLN	X	177	24.809	57.971	40.030	0.00	0.00
ATOM	2730	NE2	GLN	X	177	26.571	56.719	40.343	0.00	0.00
ATOM	2731	HE21	GLN	X	177	27.092	57.407	40.866	0.00	0.00
ATOM	2732	HE22	GLN	X	177	26.838	55.771	40.566	0.00	0.00
ATOM	2733	C	GLN	X	177	24.295	53.915	36.012	0.00	0.00
ATOM	2734	O	GLN	X	177	23.116	53.732	35.664	0.00	0.00
ATOM	2735	N	TRP	X	178	25.227	54.114	35.057	0.00	0.00
ATOM	2736	H	TRP	X	178	26.199	54.177	35.324	0.00	0.00
ATOM	2737	CA	TRP	X	178	24.966	54.095	33.654	0.00	0.00
ATOM	2738	HA	TRP	X	178	24.256	54.893	33.436	0.00	0.00
ATOM	2739	CB	TRP	X	178	26.237	54.559	32.995	0.00	0.00
ATOM	2740	HB2	TRP	X	178	26.725	55.293	33.637	0.00	0.00
ATOM	2741	HB3	TRP	X	178	26.885	53.685	33.056	0.00	0.00
ATOM	2742	CG	TRP	X	178	26.201	55.220	31.601	0.00	0.00
ATOM	2743	CD1	TRP	X	178	26.253	56.549	31.329	0.00	0.00
ATOM	2744	HD1	TRP	X	178	26.353	57.333	32.065	0.00	0.00
ATOM	2745	NE1	TRP	X	178	26.262	56.785	29.965	0.00	0.00
ATOM	2746	HE1	TRP	X	178	26.476	57.661	29.509	0.00	0.00
ATOM	2747	CE2	TRP	X	178	26.157	55.607	29.291	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	26.051	55.257	27.944	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	26.158	56.093	27.268	0.00	0.00
ATOM	2750	CH2	TRP	X	178	26.019	53.880	27.577	0.00	0.00
ATOM	2751	HH2	TRP	X	178	25.947	53.566	26.546	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	26.021	52.868	28.613	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	26.229	51.837	28.365	0.00	0.00
ATOM	2754	CE3	TRP	X	178	26.146	53.246	29.960	0.00	0.00
ATOM	2755	HE3	TRP	X	178	26.324	52.525	30.743	0.00	0.00
ATOM	2756	CD2	TRP	X	178	26.144	54.630	30.329	0.00	0.00
ATOM	2757	C	TRP	X	178	24.454	52.664	33.212	0.00	0.00
ATOM	2758	O	TRP	X	178	23.480	52.568	32.458	0.00	0.00
ATOM	2759	N	VAL	X	179	25.030	51.569	33.671	0.00	0.00
ATOM	2760	H	VAL	X	179	25.816	51.655	34.299	0.00	0.00
ATOM	2761	CA	VAL	X	179	24.525	50.242	33.470	0.00	0.00
ATOM	2762	HA	VAL	X	179	24.571	50.072	32.394	0.00	0.00
ATOM	2763	CB	VAL	X	179	25.443	49.161	34.084	0.00	0.00
ATOM	2764	HB	VAL	X	179	25.667	49.525	35.087	0.00	0.00
ATOM	2765	CG1	VAL	X	179	24.807	47.768	34.232	0.00	0.00
ATOM	2766	HG11	VAL	X	179	23.825	47.866	34.697	0.00	0.00
ATOM	2767	HG12	VAL	X	179	24.769	47.476	33.183	0.00	0.00
ATOM	2768	HG13	VAL	X	179	25.452	47.127	34.834	0.00	0.00
ATOM	2769	CG2	VAL	X	179	26.753	49.155	33.320	0.00	0.00
ATOM	2770	HG21	VAL	X	179	26.695	48.902	32.261	0.00	0.00
ATOM	2771	HG22	VAL	X	179	27.416	48.485	33.866	0.00	0.00
ATOM	2772	HG23	VAL	X	179	27.266	50.117	33.349	0.00	0.00
ATOM	2773	C	VAL	X	179	23.035	50.122	33.837	0.00	0.00
ATOM	2774	O	VAL	X	179	22.204	49.777	32.975	0.00	0.00
ATOM	2775	N	GLN	X	180	22.635	50.399	35.039	0.00	0.00
ATOM	2776	H	GLN	X	180	23.289	50.767	35.715	0.00	0.00
ATOM	2777	CA	GLN	X	180	21.223	50.404	35.443	0.00	0.00
ATOM	2778	HA	GLN	X	180	20.851	49.384	35.354	0.00	0.00

ATOM	2779	CB	GLN	X	180	21.039	50.841	36.895	0.00	0.00
ATOM	2780	HB2	GLN	X	180	21.480	51.829	37.022	0.00	0.00
ATOM	2781	HB3	GLN	X	180	19.993	51.053	37.113	0.00	0.00
ATOM	2782	CG	GLN	X	180	21.656	49.782	37.881	0.00	0.00
ATOM	2783	HG2	GLN	X	180	22.721	49.597	37.742	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.613	50.183	38.893	0.00	0.00
ATOM	2785	CD	GLN	X	180	20.830	48.433	37.910	0.00	0.00
ATOM	2786	OE1	GLN	X	180	19.577	48.404	37.855	0.00	0.00
ATOM	2787	NE2	GLN	X	180	21.454	47.303	38.090	0.00	0.00
ATOM	2788	HE21	GLN	X	180	20.980	46.412	38.057	0.00	0.00
ATOM	2789	HE22	GLN	X	180	22.406	47.335	38.426	0.00	0.00
ATOM	2790	C	GLN	X	180	20.296	51.205	34.470	0.00	0.00
ATOM	2791	O	GLN	X	180	19.294	50.623	34.023	0.00	0.00
ATOM	2792	N	GLU	X	181	20.644	52.396	34.054	0.00	0.00
ATOM	2793	H	GLU	X	181	21.523	52.760	34.393	0.00	0.00
ATOM	2794	CA	GLU	X	181	20.021	53.339	33.110	0.00	0.00
ATOM	2795	HA	GLU	X	181	18.985	53.427	33.438	0.00	0.00
ATOM	2796	CB	GLU	X	181	20.718	54.705	33.300	0.00	0.00
ATOM	2797	HB2	GLU	X	181	20.795	55.021	34.341	0.00	0.00
ATOM	2798	HB3	GLU	X	181	21.728	54.712	32.890	0.00	0.00
ATOM	2799	CG	GLU	X	181	19.921	55.745	32.552	0.00	0.00
ATOM	2800	HG2	GLU	X	181	19.947	55.474	31.497	0.00	0.00
ATOM	2801	HG3	GLU	X	181	18.850	55.811	32.743	0.00	0.00
ATOM	2802	CD	GLU	X	181	20.589	57.172	32.563	0.00	0.00
ATOM	2803	OE1	GLU	X	181	20.150	57.930	33.421	0.00	0.00
ATOM	2804	OE2	GLU	X	181	21.519	57.434	31.818	0.00	0.00
ATOM	2805	C	GLU	X	181	20.004	52.821	31.687	0.00	0.00
ATOM	2806	O	GLU	X	181	19.040	53.028	30.980	0.00	0.00
ATOM	2807	N	ASN	X	182	21.003	52.072	31.217	0.00	0.00
ATOM	2808	H	ASN	X	182	21.745	51.790	31.842	0.00	0.00
ATOM	2809	CA	ASN	X	182	21.319	51.918	29.801	0.00	0.00
ATOM	2810	HA	ASN	X	182	20.474	52.259	29.202	0.00	0.00
ATOM	2811	CB	ASN	X	182	22.534	52.774	29.372	0.00	0.00
ATOM	2812	HB2	ASN	X	182	23.336	52.737	30.108	0.00	0.00
ATOM	2813	HB3	ASN	X	182	22.848	52.497	28.366	0.00	0.00
ATOM	2814	CG	ASN	X	182	22.111	54.244	29.348	0.00	0.00
ATOM	2815	OD1	ASN	X	182	21.270	54.691	28.547	0.00	0.00
ATOM	2816	ND2	ASN	X	182	22.707	55.045	30.167	0.00	0.00
ATOM	2817	HD21	ASN	X	182	22.325	55.978	30.224	0.00	0.00
ATOM	2818	HD22	ASN	X	182	23.371	54.674	30.832	0.00	0.00
ATOM	2819	C	ASN	X	182	21.503	50.441	29.264	0.00	0.00
ATOM	2820	O	ASN	X	182	21.365	50.271	28.012	0.00	0.00
ATOM	2821	N	VAL	X	183	21.760	49.425	30.073	0.00	0.00
ATOM	2822	H	VAL	X	183	21.526	49.626	31.035	0.00	0.00
ATOM	2823	CA	VAL	X	183	22.059	48.021	29.618	0.00	0.00
ATOM	2824	HA	VAL	X	183	22.841	48.116	28.865	0.00	0.00
ATOM	2825	CB	VAL	X	183	22.701	47.275	30.768	0.00	0.00
ATOM	2826	HB	VAL	X	183	23.420	47.939	31.247	0.00	0.00
ATOM	2827	CG1	VAL	X	183	21.717	46.735	31.867	0.00	0.00
ATOM	2828	HG11	VAL	X	183	22.286	46.243	32.656	0.00	0.00
ATOM	2829	HG12	VAL	X	183	21.207	47.594	32.302	0.00	0.00
ATOM	2830	HG13	VAL	X	183	20.937	46.103	31.441	0.00	0.00
ATOM	2831	CG2	VAL	X	183	23.572	46.123	30.244	0.00	0.00
ATOM	2832	HG21	VAL	X	183	22.840	45.450	29.797	0.00	0.00
ATOM	2833	HG22	VAL	X	183	24.063	45.553	31.032	0.00	0.00
ATOM	2834	HG23	VAL	X	183	24.286	46.529	29.527	0.00	0.00
ATOM	2835	C	VAL	X	183	20.936	47.333	28.938	0.00	0.00
ATOM	2836	O	VAL	X	183	21.211	46.488	28.086	0.00	0.00
ATOM	2837	N	ALA	X	184	19.644	47.703	29.237	0.00	0.00
ATOM	2838	H	ALA	X	184	19.511	48.415	29.940	0.00	0.00
ATOM	2839	CA	ALA	X	184	18.414	47.304	28.516	0.00	0.00
ATOM	2840	HA	ALA	X	184	18.338	46.222	28.628	0.00	0.00
ATOM	2841	CB	ALA	X	184	17.243	48.041	29.159	0.00	0.00
ATOM	2842	HB1	ALA	X	184	17.381	49.108	28.984	0.00	0.00
ATOM	2843	HB2	ALA	X	184	17.291	47.898	30.238	0.00	0.00
ATOM	2844	HB3	ALA	X	184	16.387	47.730	28.560	0.00	0.00
ATOM	2845	C	ALA	X	184	18.418	47.622	27.010	0.00	0.00

ATOM	2846	O	ALA	X	184	17.921	46.844	26.227	0.00	0.00
ATOM	2847	N	ALA	X	185	19.070	48.683	26.589	0.00	0.00
ATOM	2848	H	ALA	X	185	19.605	49.259	27.223	0.00	0.00
ATOM	2849	CA	ALA	X	185	19.315	49.023	25.226	0.00	0.00
ATOM	2850	HA	ALA	X	185	18.379	49.220	24.703	0.00	0.00
ATOM	2851	CB	ALA	X	185	20.114	50.386	25.226	0.00	0.00
ATOM	2852	HB1	ALA	X	185	19.669	51.074	25.945	0.00	0.00
ATOM	2853	HB2	ALA	X	185	20.040	50.846	24.241	0.00	0.00
ATOM	2854	HB3	ALA	X	185	21.167	50.325	25.497	0.00	0.00
ATOM	2855	C	ALA	X	185	20.091	47.995	24.360	0.00	0.00
ATOM	2856	O	ALA	X	185	19.761	47.745	23.209	0.00	0.00
ATOM	2857	N	PHE	X	186	21.064	47.331	24.988	0.00	0.00
ATOM	2858	H	PHE	X	186	21.311	47.698	25.896	0.00	0.00
ATOM	2859	CA	PHE	X	186	21.943	46.351	24.333	0.00	0.00
ATOM	2860	HA	PHE	X	186	22.006	46.666	23.292	0.00	0.00
ATOM	2861	CB	PHE	X	186	23.317	46.527	24.978	0.00	0.00
ATOM	2862	HB2	PHE	X	186	23.202	46.399	26.054	0.00	0.00
ATOM	2863	HB3	PHE	X	186	24.088	45.807	24.703	0.00	0.00
ATOM	2864	CG	PHE	X	186	23.919	47.877	24.755	0.00	0.00
ATOM	2865	CD1	PHE	X	186	23.942	48.799	25.832	0.00	0.00
ATOM	2866	HD1	PHE	X	186	23.653	48.514	26.833	0.00	0.00
ATOM	2867	CE1	PHE	X	186	24.478	50.113	25.613	0.00	0.00
ATOM	2868	HE1	PHE	X	186	24.439	50.842	26.409	0.00	0.00
ATOM	2869	CZ	PHE	X	186	24.944	50.488	24.322	0.00	0.00
ATOM	2870	HZ	PHE	X	186	25.267	51.490	24.082	0.00	0.00
ATOM	2871	CE2	PHE	X	186	25.083	49.536	23.308	0.00	0.00
ATOM	2872	HE2	PHE	X	186	25.392	49.848	22.321	0.00	0.00
ATOM	2873	CD2	PHE	X	186	24.520	48.230	23.525	0.00	0.00
ATOM	2874	HD2	PHE	X	186	24.309	47.603	22.671	0.00	0.00
ATOM	2875	C	PHE	X	186	21.384	44.922	24.510	0.00	0.00
ATOM	2876	O	PHE	X	186	21.996	43.939	24.043	0.00	0.00
ATOM	2877	N	GLY	X	187	20.234	44.764	25.127	0.00	0.00
ATOM	2878	H	GLY	X	187	19.830	45.614	25.493	0.00	0.00
ATOM	2879	CA	GLY	X	187	19.606	43.427	25.376	0.00	0.00
ATOM	2880	HA2	GLY	X	187	18.521	43.501	25.299	0.00	0.00
ATOM	2881	HA3	GLY	X	187	19.972	42.726	24.627	0.00	0.00
ATOM	2882	C	GLY	X	187	19.972	42.855	26.753	0.00	0.00
ATOM	2883	O	GLY	X	187	19.460	41.751	26.959	0.00	0.00
ATOM	2884	N	GLY	X	188	20.752	43.550	27.537	0.00	0.00
ATOM	2885	H	GLY	X	188	21.176	44.418	27.243	0.00	0.00
ATOM	2886	CA	GLY	X	188	20.981	43.043	28.846	0.00	0.00
ATOM	2887	HA2	GLY	X	188	21.124	41.963	28.856	0.00	0.00
ATOM	2888	HA3	GLY	X	188	21.816	43.628	29.231	0.00	0.00
ATOM	2889	C	GLY	X	188	19.818	43.319	29.663	0.00	0.00
ATOM	2890	O	GLY	X	188	18.862	44.052	29.245	0.00	0.00
ATOM	2891	N	ASP	X	189	19.854	42.840	30.892	0.00	0.00
ATOM	2892	H	ASP	X	189	20.518	42.089	31.015	0.00	0.00
ATOM	2893	CA	ASP	X	189	18.839	43.025	31.946	0.00	0.00
ATOM	2894	HA	ASP	X	189	17.968	43.588	31.612	0.00	0.00
ATOM	2895	CB	ASP	X	189	18.252	41.645	32.273	0.00	0.00
ATOM	2896	HB2	ASP	X	189	17.857	41.187	31.366	0.00	0.00
ATOM	2897	HB3	ASP	X	189	19.001	41.084	32.831	0.00	0.00
ATOM	2898	CG	ASP	X	189	17.097	41.811	33.335	0.00	0.00
ATOM	2899	OD1	ASP	X	189	16.766	40.757	33.859	0.00	0.00
ATOM	2900	OD2	ASP	X	189	16.643	42.964	33.679	0.00	0.00
ATOM	2901	C	ASP	X	189	19.349	43.760	33.168	0.00	0.00
ATOM	2902	O	ASP	X	189	19.975	43.203	34.056	0.00	0.00
ATOM	2903	N	PRO	X	190	18.887	44.998	33.436	0.00	0.00
ATOM	2904	CD	PRO	X	190	17.984	45.808	32.622	0.00	0.00
ATOM	2905	HD2	PRO	X	190	17.169	45.281	32.126	0.00	0.00
ATOM	2906	HD3	PRO	X	190	18.450	46.250	31.742	0.00	0.00
ATOM	2907	CG	PRO	X	190	17.474	46.847	33.512	0.00	0.00
ATOM	2908	HG2	PRO	X	190	16.729	46.428	34.188	0.00	0.00
ATOM	2909	HG3	PRO	X	190	17.107	47.714	32.963	0.00	0.00
ATOM	2910	CB	PRO	X	190	18.667	47.188	34.493	0.00	0.00
ATOM	2911	HB2	PRO	X	190	18.431	47.663	35.445	0.00	0.00
ATOM	2912	HB3	PRO	X	190	19.356	47.792	33.901	0.00	0.00

ATOM	2913	CA	PRO	X	190	19.322	45.806	34.604	0.00	0.00
ATOM	2914	HA	PRO	X	190	20.396	45.974	34.677	0.00	0.00
ATOM	2915	C	PRO	X	190	18.899	45.113	35.961	0.00	0.00
ATOM	2916	O	PRO	X	190	19.557	45.313	36.970	0.00	0.00
ATOM	2917	N	THR	X	191	17.879	44.269	36.014	0.00	0.00
ATOM	2918	H	THR	X	191	17.274	44.180	35.210	0.00	0.00
ATOM	2919	CA	THR	X	191	17.406	43.485	37.295	0.00	0.00
ATOM	2920	HA	THR	X	191	17.604	44.076	38.189	0.00	0.00
ATOM	2921	CB	THR	X	191	15.890	43.041	37.190	0.00	0.00
ATOM	2922	HB	THR	X	191	15.499	42.619	38.116	0.00	0.00
ATOM	2923	CG2	THR	X	191	14.857	44.099	37.010	0.00	0.00
ATOM	2924	HG21	THR	X	191	15.109	44.851	37.758	0.00	0.00
ATOM	2925	HG22	THR	X	191	13.903	43.578	37.078	0.00	0.00
ATOM	2926	HG23	THR	X	191	14.926	44.578	36.033	0.00	0.00
ATOM	2927	OG1	THR	X	191	15.595	42.028	36.206	0.00	0.00
ATOM	2928	HG1	THR	X	191	16.147	42.234	35.448	0.00	0.00
ATOM	2929	C	THR	X	191	18.316	42.290	37.536	0.00	0.00
ATOM	2930	O	THR	X	191	18.341	41.704	38.612	0.00	0.00
ATOM	2931	N	SER	X	192	19.147	41.858	36.600	0.00	0.00
ATOM	2932	H	SER	X	192	19.193	42.245	35.669	0.00	0.00
ATOM	2933	CA	SER	X	192	20.115	40.754	36.766	0.00	0.00
ATOM	2934	HA	SER	X	192	20.110	40.414	37.802	0.00	0.00
ATOM	2935	CB	SER	X	192	19.619	39.625	35.907	0.00	0.00
ATOM	2936	HB2	SER	X	192	19.905	39.720	34.859	0.00	0.00
ATOM	2937	HB3	SER	X	192	20.195	38.776	36.275	0.00	0.00
ATOM	2938	OG	SER	X	192	18.178	39.358	35.981	0.00	0.00
ATOM	2939	HG	SER	X	192	17.709	40.029	35.480	0.00	0.00
ATOM	2940	C	SER	X	192	21.534	41.075	36.456	0.00	0.00
ATOM	2941	O	SER	X	192	22.031	40.663	35.401	0.00	0.00
ATOM	2942	N	VAL	X	193	22.182	41.927	37.358	0.00	0.00
ATOM	2943	H	VAL	X	193	21.660	42.372	38.099	0.00	0.00
ATOM	2944	CA	VAL	X	193	23.573	42.429	37.122	0.00	0.00
ATOM	2945	HA	VAL	X	193	23.892	42.154	36.117	0.00	0.00
ATOM	2946	CB	VAL	X	193	23.665	43.985	37.313	0.00	0.00
ATOM	2947	HB	VAL	X	193	23.001	44.249	38.137	0.00	0.00
ATOM	2948	CG1	VAL	X	193	25.066	44.626	37.476	0.00	0.00
ATOM	2949	HG11	VAL	X	193	25.021	45.700	37.658	0.00	0.00
ATOM	2950	HG12	VAL	X	193	25.583	44.228	38.349	0.00	0.00
ATOM	2951	HG13	VAL	X	193	25.616	44.500	36.543	0.00	0.00
ATOM	2952	CG2	VAL	X	193	23.093	44.699	36.075	0.00	0.00
ATOM	2953	HG21	VAL	X	193	22.187	44.136	35.849	0.00	0.00
ATOM	2954	HG22	VAL	X	193	23.896	44.657	35.338	0.00	0.00
ATOM	2955	HG23	VAL	X	193	22.878	45.741	36.311	0.00	0.00
ATOM	2956	C	VAL	X	193	24.566	41.799	38.093	0.00	0.00
ATOM	2957	O	VAL	X	193	24.338	41.759	39.324	0.00	0.00
ATOM	2958	N	THR	X	194	25.729	41.376	37.571	0.00	0.00
ATOM	2959	H	THR	X	194	25.791	41.247	36.571	0.00	0.00
ATOM	2960	CA	THR	X	194	26.787	40.637	38.291	0.00	0.00
ATOM	2961	HA	THR	X	194	26.501	40.400	39.316	0.00	0.00
ATOM	2962	CB	THR	X	194	27.054	39.236	37.674	0.00	0.00
ATOM	2963	HB	THR	X	194	27.018	39.391	36.596	0.00	0.00
ATOM	2964	CG2	THR	X	194	28.372	38.580	38.105	0.00	0.00
ATOM	2965	HG21	THR	X	194	28.577	38.403	39.161	0.00	0.00
ATOM	2966	HG22	THR	X	194	29.248	39.149	37.791	0.00	0.00
ATOM	2967	HG23	THR	X	194	28.436	37.592	37.649	0.00	0.00
ATOM	2968	OG1	THR	X	194	25.996	38.373	37.999	0.00	0.00
ATOM	2969	HG1	THR	X	194	25.165	38.729	37.675	0.00	0.00
ATOM	2970	C	THR	X	194	28.116	41.405	38.179	0.00	0.00
ATOM	2971	O	THR	X	194	28.652	41.657	37.122	0.00	0.00
ATOM	2972	N	LEU	X	195	28.746	41.625	39.336	0.00	0.00
ATOM	2973	H	LEU	X	195	28.369	41.252	40.196	0.00	0.00
ATOM	2974	CA	LEU	X	195	30.061	42.218	39.432	0.00	0.00
ATOM	2975	HA	LEU	X	195	30.294	42.838	38.567	0.00	0.00
ATOM	2976	CB	LEU	X	195	30.318	42.964	40.740	0.00	0.00
ATOM	2977	HB2	LEU	X	195	30.188	42.199	41.506	0.00	0.00
ATOM	2978	HB3	LEU	X	195	31.370	43.251	40.754	0.00	0.00
ATOM	2979	CG	LEU	X	195	29.505	44.204	41.063	0.00	0.00

ATOM	2980	HG	LEU	X	195	28.437	43.988	41.089	0.00	0.00
ATOM	2981	CD1	LEU	X	195	29.826	44.605	42.512	0.00	0.00
ATOM	2982	HD11	LEU	X	195	29.862	43.756	43.195	0.00	0.00
ATOM	2983	HD12	LEU	X	195	29.140	45.423	42.729	0.00	0.00
ATOM	2984	HD13	LEU	X	195	30.850	44.955	42.638	0.00	0.00
ATOM	2985	CD2	LEU	X	195	29.935	45.285	40.153	0.00	0.00
ATOM	2986	HD21	LEU	X	195	29.406	46.165	40.518	0.00	0.00
ATOM	2987	HD22	LEU	X	195	31.005	45.488	40.102	0.00	0.00
ATOM	2988	HD23	LEU	X	195	29.510	44.999	39.190	0.00	0.00
ATOM	2989	C	LEU	X	195	31.169	41.161	39.379	0.00	0.00
ATOM	2990	O	LEU	X	195	31.045	40.108	39.992	0.00	0.00
ATOM	2991	N	PHE	X	196	32.117	41.398	38.509	0.00	0.00
ATOM	2992	H	PHE	X	196	32.088	42.267	37.995	0.00	0.00
ATOM	2993	CA	PHE	X	196	33.039	40.386	37.975	0.00	0.00
ATOM	2994	HA	PHE	X	196	33.071	39.569	38.696	0.00	0.00
ATOM	2995	CB	PHE	X	196	32.509	39.915	36.624	0.00	0.00
ATOM	2996	HB2	PHE	X	196	31.506	39.508	36.757	0.00	0.00
ATOM	2997	HB3	PHE	X	196	32.401	40.810	36.013	0.00	0.00
ATOM	2998	CG	PHE	X	196	33.215	38.938	35.788	0.00	0.00
ATOM	2999	CD1	PHE	X	196	33.220	39.127	34.389	0.00	0.00
ATOM	3000	HD1	PHE	X	196	32.612	39.906	33.954	0.00	0.00
ATOM	3001	CE1	PHE	X	196	33.613	38.139	33.493	0.00	0.00
ATOM	3002	HE1	PHE	X	196	33.643	38.332	32.431	0.00	0.00
ATOM	3003	CZ	PHE	X	196	34.208	37.003	34.004	0.00	0.00
ATOM	3004	HZ	PHE	X	196	34.586	36.200	33.389	0.00	0.00
ATOM	3005	CE2	PHE	X	196	34.426	36.853	35.346	0.00	0.00
ATOM	3006	HE2	PHE	X	196	34.961	35.963	35.646	0.00	0.00
ATOM	3007	CD2	PHE	X	196	33.884	37.795	36.283	0.00	0.00
ATOM	3008	HD2	PHE	X	196	33.919	37.711	37.359	0.00	0.00
ATOM	3009	C	PHE	X	196	34.478	40.877	37.798	0.00	0.00
ATOM	3010	O	PHE	X	196	34.609	41.980	37.276	0.00	0.00
ATOM	3011	N	GLY	X	197	35.510	40.225	38.387	0.00	0.00
ATOM	3012	H	GLY	X	197	35.520	39.419	38.995	0.00	0.00
ATOM	3013	CA	GLY	X	197	36.802	40.889	38.522	0.00	0.00
ATOM	3014	HA2	GLY	X	197	37.096	41.282	37.549	0.00	0.00
ATOM	3015	HA3	GLY	X	197	36.703	41.675	39.271	0.00	0.00
ATOM	3016	C	GLY	X	197	37.907	39.958	39.102	0.00	0.00
ATOM	3017	O	GLY	X	197	37.546	38.941	39.699	0.00	0.00
ATOM	3018	N	GLU	X	198	39.203	40.300	38.790	0.00	0.00
ATOM	3019	H	GLU	X	198	39.311	41.170	38.288	0.00	0.00
ATOM	3020	CA	GLU	X	198	40.406	39.591	39.129	0.00	0.00
ATOM	3021	HA	GLU	X	198	40.101	38.716	39.704	0.00	0.00
ATOM	3022	CB	GLU	X	198	40.900	39.062	37.815	0.00	0.00
ATOM	3023	HB2	GLU	X	198	41.644	38.288	38.006	0.00	0.00
ATOM	3024	HB3	GLU	X	198	40.102	38.457	37.383	0.00	0.00
ATOM	3025	CG	GLU	X	198	41.396	40.139	36.771	0.00	0.00
ATOM	3026	HG2	GLU	X	198	41.244	39.698	35.786	0.00	0.00
ATOM	3027	HG3	GLU	X	198	40.737	40.964	37.041	0.00	0.00
ATOM	3028	CD	GLU	X	198	42.807	40.576	36.836	0.00	0.00
ATOM	3029	OE1	GLU	X	198	43.221	41.178	35.794	0.00	0.00
ATOM	3030	OE2	GLU	X	198	43.510	40.251	37.803	0.00	0.00
ATOM	3031	C	GLU	X	198	41.360	40.485	40.001	0.00	0.00
ATOM	3032	O	GLU	X	198	41.431	41.669	39.787	0.00	0.00
ATOM	3033	N	XA1	X	199	42.029	39.887	40.958	0.00	0.00
ATOM	3034	CA	XA1	X	199	43.036	40.590	41.684	0.00	0.00
ATOM	3035	C	XA1	X	199	42.570	41.975	42.301	0.00	0.00
ATOM	3036	O	XA1	X	199	41.675	41.978	43.178	0.00	0.00
ATOM	3037	CB	XA1	X	199	44.377	40.756	40.900	0.00	0.00
ATOM	3038	OG	XA1	X	199	45.416	41.241	41.790	0.00	0.00
ATOM	3039	P1	XA1	X	199	46.587	42.065	41.193	0.00	0.00
ATOM	3040	O1	XA1	X	199	45.913	43.263	40.719	0.00	0.00
ATOM	3041	O2	XA1	X	199	47.386	41.198	40.343	0.00	0.00
ATOM	3042	C1	XA1	X	199	47.492	42.510	42.576	0.00	0.00
ATOM	3043	H	XA1	X	199	41.896	38.919	41.213	0.00	0.00
ATOM	3044	HA	XA1	X	199	43.198	40.029	42.604	0.00	0.00
ATOM	3045	HB2	XA1	X	199	44.681	39.767	40.546	0.00	0.00
ATOM	3046	HB3	XA1	X	199	44.317	41.419	40.033	0.00	0.00

ATOM	3047	H11	XA1	X	199	47.595	41.591	43.157	0.00	0.00
ATOM	3048	H12	XA1	X	199	48.496	42.804	42.262	0.00	0.00
ATOM	3049	H13	XA1	X	199	46.918	43.261	43.123	0.00	0.00
ATOM	3050	N	ALA	X	200	43.186	43.104	41.894	0.00	0.00
ATOM	3051	H	ALA	X	200	43.969	42.994	41.265	0.00	0.00
ATOM	3052	CA	ALA	X	200	42.798	44.435	42.390	0.00	0.00
ATOM	3053	HA	ALA	X	200	42.798	44.353	43.477	0.00	0.00
ATOM	3054	CB	ALA	X	200	43.698	45.605	41.825	0.00	0.00
ATOM	3055	HB1	ALA	X	200	43.413	46.585	42.208	0.00	0.00
ATOM	3056	HB2	ALA	X	200	43.730	45.566	40.736	0.00	0.00
ATOM	3057	HB3	ALA	X	200	44.768	45.429	41.940	0.00	0.00
ATOM	3058	C	ALA	X	200	41.305	44.772	41.949	0.00	0.00
ATOM	3059	O	ALA	X	200	40.531	45.514	42.577	0.00	0.00
ATOM	3060	N	GLY	X	201	40.852	44.256	40.840	0.00	0.00
ATOM	3061	H	GLY	X	201	41.453	43.653	40.296	0.00	0.00
ATOM	3062	CA	GLY	X	201	39.451	44.302	40.359	0.00	0.00
ATOM	3063	HA2	GLY	X	201	38.961	45.275	40.380	0.00	0.00
ATOM	3064	HA3	GLY	X	201	39.376	43.977	39.322	0.00	0.00
ATOM	3065	C	GLY	X	201	38.617	43.434	41.271	0.00	0.00
ATOM	3066	O	GLY	X	201	37.574	43.867	41.728	0.00	0.00
ATOM	3067	N	ALA	X	202	39.074	42.190	41.536	0.00	0.00
ATOM	3068	H	ALA	X	202	39.992	41.843	41.297	0.00	0.00
ATOM	3069	CA	ALA	X	202	38.364	41.372	42.549	0.00	0.00
ATOM	3070	HA	ALA	X	202	37.383	41.242	42.091	0.00	0.00
ATOM	3071	CB	ALA	X	202	39.107	39.982	42.683	0.00	0.00
ATOM	3072	HB1	ALA	X	202	39.272	39.582	41.683	0.00	0.00
ATOM	3073	HB2	ALA	X	202	38.523	39.307	43.310	0.00	0.00
ATOM	3074	HB3	ALA	X	202	39.999	40.117	43.295	0.00	0.00
ATOM	3075	C	ALA	X	202	38.233	42.053	43.950	0.00	0.00
ATOM	3076	O	ALA	X	202	37.257	41.956	44.698	0.00	0.00
ATOM	3077	N	ALA	X	203	39.273	42.811	44.342	0.00	0.00
ATOM	3078	H	ALA	X	203	40.147	42.805	43.835	0.00	0.00
ATOM	3079	CA	ALA	X	203	39.174	43.703	45.510	0.00	0.00
ATOM	3080	HA	ALA	X	203	38.841	43.047	46.313	0.00	0.00
ATOM	3081	CB	ALA	X	203	40.536	44.319	45.869	0.00	0.00
ATOM	3082	HB1	ALA	X	203	40.356	44.790	46.836	0.00	0.00
ATOM	3083	HB2	ALA	X	203	40.763	45.047	45.090	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.232	43.481	45.854	0.00	0.00
ATOM	3085	C	ALA	X	203	38.214	44.820	45.300	0.00	0.00
ATOM	3086	O	ALA	X	203	37.426	45.139	46.212	0.00	0.00
ATOM	3087	N	SER	X	204	38.159	45.413	44.090	0.00	0.00
ATOM	3088	H	SER	X	204	38.804	45.078	43.389	0.00	0.00
ATOM	3089	CA	SER	X	204	37.261	46.539	43.705	0.00	0.00
ATOM	3090	HA	SER	X	204	37.321	47.394	44.379	0.00	0.00
ATOM	3091	CB	SER	X	204	37.521	46.998	42.272	0.00	0.00
ATOM	3092	HB2	SER	X	204	37.357	46.238	41.508	0.00	0.00
ATOM	3093	HB3	SER	X	204	36.810	47.820	42.184	0.00	0.00
ATOM	3094	OG	SER	X	204	38.741	47.614	42.001	0.00	0.00
ATOM	3095	HG	SER	X	204	39.537	47.095	42.134	0.00	0.00
ATOM	3096	C	SER	X	204	35.794	46.072	43.830	0.00	0.00
ATOM	3097	O	SER	X	204	35.007	46.702	44.551	0.00	0.00
ATOM	3098	N	VAL	X	205	35.399	44.944	43.214	0.00	0.00
ATOM	3099	H	VAL	X	205	36.071	44.659	42.516	0.00	0.00
ATOM	3100	CA	VAL	X	205	34.135	44.288	43.211	0.00	0.00
ATOM	3101	HA	VAL	X	205	33.316	44.827	42.735	0.00	0.00
ATOM	3102	CB	VAL	X	205	34.299	42.888	42.423	0.00	0.00
ATOM	3103	HB	VAL	X	205	35.242	42.498	42.807	0.00	0.00
ATOM	3104	CG1	VAL	X	205	33.114	41.880	42.697	0.00	0.00
ATOM	3105	HG11	VAL	X	205	32.109	42.301	42.719	0.00	0.00
ATOM	3106	HG12	VAL	X	205	33.094	41.021	42.025	0.00	0.00
ATOM	3107	HG13	VAL	X	205	33.298	41.377	43.646	0.00	0.00
ATOM	3108	CG2	VAL	X	205	34.335	43.103	40.970	0.00	0.00
ATOM	3109	HG21	VAL	X	205	34.378	42.119	40.503	0.00	0.00
ATOM	3110	HG22	VAL	X	205	35.217	43.619	40.590	0.00	0.00
ATOM	3111	HG23	VAL	X	205	33.471	43.694	40.668	0.00	0.00
ATOM	3112	C	VAL	X	205	33.745	43.887	44.726	0.00	0.00
ATOM	3113	O	VAL	X	205	32.585	44.145	45.068	0.00	0.00

ATOM	3114	N	GLY	X	206	34.692	43.508	45.606	0.00	0.00
ATOM	3115	H	GLY	X	206	35.574	43.268	45.176	0.00	0.00
ATOM	3116	CA	GLY	X	206	34.499	43.286	47.092	0.00	0.00
ATOM	3117	HA2	GLY	X	206	33.742	42.522	47.267	0.00	0.00
ATOM	3118	HA3	GLY	X	206	35.432	42.962	47.554	0.00	0.00
ATOM	3119	C	GLY	X	206	34.305	44.513	47.944	0.00	0.00
ATOM	3120	O	GLY	X	206	33.697	44.424	49.007	0.00	0.00
ATOM	3121	N	MET	X	207	34.917	45.653	47.461	0.00	0.00
ATOM	3122	H	MET	X	207	35.472	45.594	46.620	0.00	0.00
ATOM	3123	CA	MET	X	207	34.755	46.985	48.005	0.00	0.00
ATOM	3124	HA	MET	X	207	34.848	46.903	49.088	0.00	0.00
ATOM	3125	CB	MET	X	207	35.931	47.925	47.671	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.192	47.830	46.617	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.698	48.941	47.991	0.00	0.00
ATOM	3128	CG	MET	X	207	37.112	47.541	48.531	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.954	47.817	49.574	0.00	0.00
ATOM	3130	HG3	MET	X	207	37.157	46.453	48.468	0.00	0.00
ATOM	3131	SD	MET	X	207	38.690	48.189	47.785	0.00	0.00
ATOM	3132	CE	MET	X	207	39.768	47.069	48.651	0.00	0.00
ATOM	3133	HE1	MET	X	207	40.713	47.528	48.941	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.373	46.803	49.632	0.00	0.00
ATOM	3135	HE3	MET	X	207	39.986	46.274	47.938	0.00	0.00
ATOM	3136	C	MET	X	207	33.353	47.488	47.735	0.00	0.00
ATOM	3137	O	MET	X	207	32.736	48.086	48.596	0.00	0.00
ATOM	3138	N	HIE	X	208	32.829	47.183	46.536	0.00	0.00
ATOM	3139	H	HIE	X	208	33.457	46.774	45.859	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.368	47.407	46.109	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.031	48.389	46.441	0.00	0.00
ATOM	3142	CB	HIE	X	208	31.221	47.230	44.584	0.00	0.00
ATOM	3143	HB2	HIE	X	208	31.715	46.331	44.215	0.00	0.00
ATOM	3144	HB3	HIE	X	208	30.168	47.107	44.332	0.00	0.00
ATOM	3145	CG	HIE	X	208	31.912	48.397	43.825	0.00	0.00
ATOM	3146	ND1	HIE	X	208	31.964	49.733	44.238	0.00	0.00
ATOM	3147	CE1	HIE	X	208	32.941	50.278	43.502	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.175	51.322	43.654	0.00	0.00
ATOM	3149	NE2	HIE	X	208	33.515	49.401	42.681	0.00	0.00
ATOM	3150	HE2	HIE	X	208	34.306	49.553	42.070	0.00	0.00
ATOM	3151	CD2	HIE	X	208	32.838	48.215	42.863	0.00	0.00
ATOM	3152	HD2	HIE	X	208	33.138	47.283	42.408	0.00	0.00
ATOM	3153	C	HIE	X	208	30.374	46.483	46.907	0.00	0.00
ATOM	3154	O	HIE	X	208	29.248	46.837	47.160	0.00	0.00
ATOM	3155	N	LEU	X	209	30.880	45.323	47.346	0.00	0.00
ATOM	3156	H	LEU	X	209	31.749	45.115	46.875	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.177	44.358	48.187	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.168	44.259	47.788	0.00	0.00
ATOM	3159	CB	LEU	X	209	30.896	43.005	47.960	0.00	0.00
ATOM	3160	HB2	LEU	X	209	30.844	42.696	46.916	0.00	0.00
ATOM	3161	HB3	LEU	X	209	31.909	43.087	48.356	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.328	41.866	48.808	0.00	0.00
ATOM	3163	HG	LEU	X	209	30.502	42.184	49.836	0.00	0.00
ATOM	3164	CD1	LEU	X	209	28.831	41.482	48.679	0.00	0.00
ATOM	3165	HD11	LEU	X	209	28.763	40.548	49.237	0.00	0.00
ATOM	3166	HD12	LEU	X	209	28.507	41.334	47.649	0.00	0.00
ATOM	3167	HD13	LEU	X	209	28.184	42.302	48.992	0.00	0.00
ATOM	3168	CD2	LEU	X	209	31.224	40.597	48.654	0.00	0.00
ATOM	3169	HD21	LEU	X	209	31.253	40.266	47.615	0.00	0.00
ATOM	3170	HD22	LEU	X	209	32.237	40.805	48.998	0.00	0.00
ATOM	3171	HD23	LEU	X	209	30.947	39.684	49.182	0.00	0.00
ATOM	3172	C	LEU	X	209	30.089	44.808	49.624	0.00	0.00
ATOM	3173	O	LEU	X	209	29.233	44.441	50.408	0.00	0.00
ATOM	3174	N	LEU	X	210	31.053	45.682	49.961	0.00	0.00
ATOM	3175	H	LEU	X	210	31.730	45.931	49.254	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.116	46.279	51.271	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.632	45.633	52.003	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.592	46.370	51.449	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.048	45.386	51.345	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.916	47.124	50.731	0.00	0.00

ATOM	3181	CG	LEU	X	210	33.019	46.859	52.803	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.293	47.599	53.142	0.00	0.00
ATOM	3183	CD1	LEU	X	210	32.931	45.764	53.866	0.00	0.00
ATOM	3184	HD11	LEU	X	210	33.414	44.800	53.705	0.00	0.00
ATOM	3185	HD12	LEU	X	210	31.860	45.626	54.013	0.00	0.00
ATOM	3186	HD13	LEU	X	210	33.300	46.151	54.816	0.00	0.00
ATOM	3187	CD2	LEU	X	210	34.489	47.402	52.730	0.00	0.00
ATOM	3188	HD21	LEU	X	210	34.888	47.983	53.562	0.00	0.00
ATOM	3189	HD22	LEU	X	210	35.136	46.528	52.657	0.00	0.00
ATOM	3190	HD23	LEU	X	210	34.689	47.880	51.771	0.00	0.00
ATOM	3191	C	LEU	X	210	30.368	47.585	51.301	0.00	0.00
ATOM	3192	O	LEU	X	210	29.700	47.911	52.281	0.00	0.00
ATOM	3193	N	SER	X	211	30.537	48.491	50.333	0.00	0.00
ATOM	3194	H	SER	X	211	31.167	48.184	49.606	0.00	0.00
ATOM	3195	CA	SER	X	211	30.126	49.912	50.378	0.00	0.00
ATOM	3196	HA	SER	X	211	30.234	50.189	51.427	0.00	0.00
ATOM	3197	CB	SER	X	211	31.076	50.652	49.522	0.00	0.00
ATOM	3198	HB2	SER	X	211	32.077	50.261	49.708	0.00	0.00
ATOM	3199	HB3	SER	X	211	30.835	50.472	48.475	0.00	0.00
ATOM	3200	OG	SER	X	211	31.032	52.049	49.762	0.00	0.00
ATOM	3201	HG	SER	X	211	31.232	52.137	50.697	0.00	0.00
ATOM	3202	C	SER	X	211	28.686	50.216	49.915	0.00	0.00
ATOM	3203	O	SER	X	211	28.437	50.012	48.733	0.00	0.00
ATOM	3204	N	PRO	X	212	27.742	50.815	50.707	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.885	51.262	52.062	0.00	0.00
ATOM	3206	HD2	PRO	X	212	28.284	52.276	52.021	0.00	0.00
ATOM	3207	HD3	PRO	X	212	28.599	50.669	52.633	0.00	0.00
ATOM	3208	CG	PRO	X	212	26.552	51.177	52.697	0.00	0.00
ATOM	3209	HG2	PRO	X	212	26.550	51.946	53.470	0.00	0.00
ATOM	3210	HG3	PRO	X	212	26.276	50.205	53.106	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.552	51.571	51.544	0.00	0.00
ATOM	3212	HB2	PRO	X	212	25.427	52.646	51.418	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.607	51.061	51.730	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.340	50.969	50.287	0.00	0.00
ATOM	3215	HA	PRO	X	212	26.148	49.918	50.074	0.00	0.00
ATOM	3216	C	PRO	X	212	25.980	51.778	49.062	0.00	0.00
ATOM	3217	O	PRO	X	212	25.107	51.306	48.325	0.00	0.00
ATOM	3218	N	PRO	X	213	26.588	52.942	48.745	0.00	0.00
ATOM	3219	CD	PRO	X	213	27.676	53.545	49.432	0.00	0.00
ATOM	3220	HD2	PRO	X	213	28.669	53.125	49.268	0.00	0.00
ATOM	3221	HD3	PRO	X	213	27.422	53.454	50.488	0.00	0.00
ATOM	3222	CG	PRO	X	213	27.672	55.026	49.021	0.00	0.00
ATOM	3223	HG2	PRO	X	213	28.699	55.386	49.081	0.00	0.00
ATOM	3224	HG3	PRO	X	213	27.040	55.432	49.811	0.00	0.00
ATOM	3225	CB	PRO	X	213	27.004	55.004	47.649	0.00	0.00
ATOM	3226	HB2	PRO	X	213	27.760	54.949	46.865	0.00	0.00
ATOM	3227	HB3	PRO	X	213	26.359	55.880	47.590	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.203	53.694	47.522	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.148	53.905	47.698	0.00	0.00
ATOM	3230	C	PRO	X	213	26.521	52.984	46.201	0.00	0.00
ATOM	3231	O	PRO	X	213	25.990	53.379	45.126	0.00	0.00
ATOM	3232	N	SER	X	214	27.247	51.885	46.238	0.00	0.00
ATOM	3233	H	SER	X	214	27.628	51.632	47.138	0.00	0.00
ATOM	3234	CA	SER	X	214	27.444	50.928	45.131	0.00	0.00
ATOM	3235	HA	SER	X	214	27.238	51.435	44.188	0.00	0.00
ATOM	3236	CB	SER	X	214	28.860	50.350	45.269	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.085	50.015	46.281	0.00	0.00
ATOM	3238	HB3	SER	X	214	28.786	49.485	44.611	0.00	0.00
ATOM	3239	OG	SER	X	214	29.817	51.250	44.813	0.00	0.00
ATOM	3240	HG	SER	X	214	30.635	50.845	44.517	0.00	0.00
ATOM	3241	C	SER	X	214	26.453	49.714	45.255	0.00	0.00
ATOM	3242	O	SER	X	214	26.081	49.174	44.254	0.00	0.00
ATOM	3243	N	ARG	X	215	25.985	49.341	46.489	0.00	0.00
ATOM	3244	H	ARG	X	215	26.418	49.697	47.329	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.428	48.053	46.708	0.00	0.00
ATOM	3246	HA	ARG	X	215	26.110	47.385	46.182	0.00	0.00
ATOM	3247	CB	ARG	X	215	25.565	47.619	48.171	0.00	0.00

ATOM	3248	HB2	ARG	X	215	26.575	47.893	48.474	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.915	48.255	48.772	0.00	0.00
ATOM	3250	CG	ARG	X	215	25.530	46.150	48.502	0.00	0.00
ATOM	3251	HG2	ARG	X	215	24.537	45.728	48.658	0.00	0.00
ATOM	3252	HG3	ARG	X	215	26.054	45.503	47.799	0.00	0.00
ATOM	3253	CD	ARG	X	215	26.416	45.830	49.701	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.321	44.763	49.903	0.00	0.00
ATOM	3255	HD3	ARG	X	215	27.441	46.100	49.446	0.00	0.00
ATOM	3256	NE	ARG	X	215	25.930	46.509	50.972	0.00	0.00
ATOM	3257	HE	ARG	X	215	25.182	47.186	50.931	0.00	0.00
ATOM	3258	CZ	ARG	X	215	26.505	46.398	52.117	0.00	0.00
ATOM	3259	NH1	ARG	X	215	27.429	45.552	52.331	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.611	44.845	51.633	0.00	0.00
ATOM	3261	HH12	ARG	X	215	27.720	45.306	53.267	0.00	0.00
ATOM	3262	NH2	ARG	X	215	25.942	46.977	53.137	0.00	0.00
ATOM	3263	HH21	ARG	X	215	25.002	47.341	53.197	0.00	0.00
ATOM	3264	HH22	ARG	X	215	26.455	46.915	54.004	0.00	0.00
ATOM	3265	C	ARG	X	215	23.999	47.746	46.195	0.00	0.00
ATOM	3266	O	ARG	X	215	23.801	46.560	45.938	0.00	0.00
ATOM	3267	N	GLY	X	216	23.184	48.731	45.861	0.00	0.00
ATOM	3268	H	GLY	X	216	23.618	49.642	45.897	0.00	0.00
ATOM	3269	CA	GLY	X	216	21.953	48.531	45.185	0.00	0.00
ATOM	3270	HA2	GLY	X	216	21.542	47.574	45.506	0.00	0.00
ATOM	3271	HA3	GLY	X	216	21.205	49.261	45.494	0.00	0.00
ATOM	3272	C	GLY	X	216	21.959	48.592	43.678	0.00	0.00
ATOM	3273	O	GLY	X	216	20.881	48.680	43.040	0.00	0.00
ATOM	3274	N	LEU	X	217	23.153	48.709	43.031	0.00	0.00
ATOM	3275	H	LEU	X	217	24.043	48.601	43.497	0.00	0.00
ATOM	3276	CA	LEU	X	217	23.219	48.982	41.621	0.00	0.00
ATOM	3277	HA	LEU	X	217	22.238	49.311	41.275	0.00	0.00
ATOM	3278	CB	LEU	X	217	24.178	50.161	41.280	0.00	0.00
ATOM	3279	HB2	LEU	X	217	25.126	49.624	41.309	0.00	0.00
ATOM	3280	HB3	LEU	X	217	24.143	50.486	40.240	0.00	0.00
ATOM	3281	CG	LEU	X	217	24.108	51.511	42.082	0.00	0.00
ATOM	3282	HG	LEU	X	217	24.070	51.361	43.161	0.00	0.00
ATOM	3283	CD1	LEU	X	217	25.383	52.297	41.865	0.00	0.00
ATOM	3284	HD11	LEU	X	217	25.360	53.299	42.294	0.00	0.00
ATOM	3285	HD12	LEU	X	217	25.615	52.267	40.801	0.00	0.00
ATOM	3286	HD13	LEU	X	217	26.212	51.703	42.249	0.00	0.00
ATOM	3287	CD2	LEU	X	217	23.000	52.437	41.548	0.00	0.00
ATOM	3288	HD21	LEU	X	217	22.821	53.236	42.268	0.00	0.00
ATOM	3289	HD22	LEU	X	217	23.210	52.919	40.593	0.00	0.00
ATOM	3290	HD23	LEU	X	217	22.043	51.918	41.498	0.00	0.00
ATOM	3291	C	LEU	X	217	23.594	47.689	40.843	0.00	0.00
ATOM	3292	O	LEU	X	217	23.998	47.696	39.667	0.00	0.00
ATOM	3293	N	PHE	X	218	23.556	46.593	41.577	0.00	0.00
ATOM	3294	H	PHE	X	218	23.022	46.676	42.431	0.00	0.00
ATOM	3295	CA	PHE	X	218	23.904	45.214	41.122	0.00	0.00
ATOM	3296	HA	PHE	X	218	23.580	45.035	40.097	0.00	0.00
ATOM	3297	CB	PHE	X	218	25.440	45.078	41.120	0.00	0.00
ATOM	3298	HB2	PHE	X	218	25.689	44.196	40.531	0.00	0.00
ATOM	3299	HB3	PHE	X	218	25.838	45.879	40.498	0.00	0.00
ATOM	3300	CG	PHE	X	218	26.095	44.947	42.500	0.00	0.00
ATOM	3301	CD1	PHE	X	218	26.668	46.081	43.071	0.00	0.00
ATOM	3302	HD1	PHE	X	218	26.687	46.947	42.426	0.00	0.00
ATOM	3303	CE1	PHE	X	218	27.187	46.050	44.327	0.00	0.00
ATOM	3304	HE1	PHE	X	218	27.462	46.965	44.829	0.00	0.00
ATOM	3305	CZ	PHE	X	218	27.375	44.820	44.938	0.00	0.00
ATOM	3306	HZ	PHE	X	218	27.661	44.821	45.980	0.00	0.00
ATOM	3307	CE2	PHE	X	218	26.908	43.583	44.327	0.00	0.00
ATOM	3308	HE2	PHE	X	218	27.085	42.618	44.778	0.00	0.00
ATOM	3309	CD2	PHE	X	218	26.338	43.719	43.077	0.00	0.00
ATOM	3310	HD2	PHE	X	218	25.994	42.840	42.552	0.00	0.00
ATOM	3311	C	PHE	X	218	23.251	44.195	41.970	0.00	0.00
ATOM	3312	O	PHE	X	218	22.645	44.564	42.978	0.00	0.00
ATOM	3313	N	HIE	X	219	23.405	42.926	41.582	0.00	0.00
ATOM	3314	H	HIE	X	219	23.903	42.655	40.746	0.00	0.00

ATOM	3315	CA	HIE	X	219	22.580	41.860	42.177	0.00	0.00
ATOM	3316	HA	HIE	X	219	21.996	42.225	43.022	0.00	0.00
ATOM	3317	CB	HIE	X	219	21.508	41.452	41.130	0.00	0.00
ATOM	3318	HB2	HIE	X	219	21.942	41.204	40.161	0.00	0.00
ATOM	3319	HB3	HIE	X	219	20.939	40.590	41.477	0.00	0.00
ATOM	3320	CG	HIE	X	219	20.644	42.722	40.910	0.00	0.00
ATOM	3321	ND1	HIE	X	219	20.851	43.510	39.836	0.00	0.00
ATOM	3322	CE1	HIE	X	219	19.920	44.465	39.923	0.00	0.00
ATOM	3323	HE1	HIE	X	219	19.864	45.349	39.306	0.00	0.00
ATOM	3324	NE2	HIE	X	219	19.152	44.341	41.075	0.00	0.00
ATOM	3325	HE2	HIE	X	219	18.429	44.985	41.364	0.00	0.00
ATOM	3326	CD2	HIE	X	219	19.615	43.261	41.769	0.00	0.00
ATOM	3327	HD2	HIE	X	219	19.199	42.864	42.684	0.00	0.00
ATOM	3328	C	HIE	X	219	23.408	40.629	42.653	0.00	0.00
ATOM	3329	O	HIE	X	219	22.977	39.841	43.460	0.00	0.00
ATOM	3330	N	ARG	X	220	24.522	40.331	42.011	0.00	0.00
ATOM	3331	H	ARG	X	220	24.735	40.957	41.248	0.00	0.00
ATOM	3332	CA	ARG	X	220	25.519	39.281	42.577	0.00	0.00
ATOM	3333	HA	ARG	X	220	25.423	39.187	43.659	0.00	0.00
ATOM	3334	CB	ARG	X	220	25.316	37.916	41.826	0.00	0.00
ATOM	3335	HB2	ARG	X	220	25.409	38.071	40.751	0.00	0.00
ATOM	3336	HB3	ARG	X	220	26.128	37.231	42.068	0.00	0.00
ATOM	3337	CG	ARG	X	220	23.946	37.315	42.118	0.00	0.00
ATOM	3338	HG2	ARG	X	220	23.988	37.362	43.206	0.00	0.00
ATOM	3339	HG3	ARG	X	220	23.109	37.953	41.835	0.00	0.00
ATOM	3340	CD	ARG	X	220	23.793	35.868	41.673	0.00	0.00
ATOM	3341	HD2	ARG	X	220	24.054	35.773	40.620	0.00	0.00
ATOM	3342	HD3	ARG	X	220	24.525	35.278	42.225	0.00	0.00
ATOM	3343	NE	ARG	X	220	22.389	35.556	41.989	0.00	0.00
ATOM	3344	HE	ARG	X	220	22.060	35.790	42.915	0.00	0.00
ATOM	3345	CZ	ARG	X	220	21.477	35.352	41.111	0.00	0.00
ATOM	3346	NH1	ARG	X	220	21.700	35.218	39.841	0.00	0.00
ATOM	3347	HH11	ARG	X	220	22.612	35.101	39.423	0.00	0.00
ATOM	3348	HH12	ARG	X	220	20.911	35.310	39.218	0.00	0.00
ATOM	3349	NH2	ARG	X	220	20.229	35.214	41.487	0.00	0.00
ATOM	3350	HH21	ARG	X	220	19.903	35.390	42.427	0.00	0.00
ATOM	3351	HH22	ARG	X	220	19.558	34.909	40.797	0.00	0.00
ATOM	3352	C	ARG	X	220	26.970	39.716	42.335	0.00	0.00
ATOM	3353	O	ARG	X	220	27.195	40.633	41.562	0.00	0.00
ATOM	3354	N	ALA	X	221	27.943	39.004	42.899	0.00	0.00
ATOM	3355	H	ALA	X	221	27.672	38.050	43.090	0.00	0.00
ATOM	3356	CA	ALA	X	221	29.351	39.212	42.853	0.00	0.00
ATOM	3357	HA	ALA	X	221	29.707	39.971	42.156	0.00	0.00
ATOM	3358	CB	ALA	X	221	29.706	39.938	44.169	0.00	0.00
ATOM	3359	HB1	ALA	X	221	29.485	39.409	45.096	0.00	0.00
ATOM	3360	HB2	ALA	X	221	29.009	40.776	44.175	0.00	0.00
ATOM	3361	HB3	ALA	X	221	30.760	40.214	44.123	0.00	0.00
ATOM	3362	C	ALA	X	221	30.229	37.983	42.571	0.00	0.00
ATOM	3363	O	ALA	X	221	29.789	36.903	42.978	0.00	0.00
ATOM	3364	N	VAL	X	222	31.341	38.097	41.860	0.00	0.00
ATOM	3365	H	VAL	X	222	31.359	38.902	41.251	0.00	0.00
ATOM	3366	CA	VAL	X	222	32.365	37.114	41.524	0.00	0.00
ATOM	3367	HA	VAL	X	222	32.177	36.200	42.086	0.00	0.00
ATOM	3368	CB	VAL	X	222	32.314	36.777	39.996	0.00	0.00
ATOM	3369	HB	VAL	X	222	32.536	37.718	39.491	0.00	0.00
ATOM	3370	CG1	VAL	X	222	33.451	35.794	39.802	0.00	0.00
ATOM	3371	HG11	VAL	X	222	33.296	35.283	38.852	0.00	0.00
ATOM	3372	HG12	VAL	X	222	34.457	36.212	39.850	0.00	0.00
ATOM	3373	HG13	VAL	X	222	33.463	35.083	40.628	0.00	0.00
ATOM	3374	CG2	VAL	X	222	30.939	36.210	39.584	0.00	0.00
ATOM	3375	HG21	VAL	X	222	30.189	36.697	40.207	0.00	0.00
ATOM	3376	HG22	VAL	X	222	30.913	35.127	39.709	0.00	0.00
ATOM	3377	HG23	VAL	X	222	30.783	36.419	38.526	0.00	0.00
ATOM	3378	C	VAL	X	222	33.767	37.698	41.892	0.00	0.00
ATOM	3379	O	VAL	X	222	34.152	38.766	41.366	0.00	0.00
ATOM	3380	N	LEU	X	223	34.700	36.946	42.523	0.00	0.00
ATOM	3381	H	LEU	X	223	34.460	36.095	43.010	0.00	0.00

ATOM	3382	CA	LEU	X	223	36.082	37.356	42.811	0.00	0.00
ATOM	3383	HA	LEU	X	223	36.386	38.273	42.307	0.00	0.00
ATOM	3384	CB	LEU	X	223	36.201	37.505	44.290	0.00	0.00
ATOM	3385	HB2	LEU	X	223	35.816	36.629	44.811	0.00	0.00
ATOM	3386	HB3	LEU	X	223	37.271	37.493	44.497	0.00	0.00
ATOM	3387	CG	LEU	X	223	35.532	38.731	44.980	0.00	0.00
ATOM	3388	HG	LEU	X	223	35.585	39.660	44.412	0.00	0.00
ATOM	3389	CD1	LEU	X	223	34.057	38.607	45.321	0.00	0.00
ATOM	3390	HD11	LEU	X	223	33.851	37.870	46.098	0.00	0.00
ATOM	3391	HD12	LEU	X	223	33.461	38.375	44.439	0.00	0.00
ATOM	3392	HD13	LEU	X	223	33.619	39.520	45.724	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.252	39.089	46.343	0.00	0.00
ATOM	3394	HD21	LEU	X	223	36.193	38.338	47.131	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.290	39.344	46.130	0.00	0.00
ATOM	3396	HD23	LEU	X	223	35.780	40.009	46.687	0.00	0.00
ATOM	3397	C	LEU	X	223	37.071	36.240	42.373	0.00	0.00
ATOM	3398	O	LEU	X	223	36.829	35.048	42.710	0.00	0.00
ATOM	3399	N	GLN	X	224	38.018	36.571	41.506	0.00	0.00
ATOM	3400	H	GLN	X	224	38.019	37.543	41.232	0.00	0.00
ATOM	3401	CA	GLN	X	224	39.129	35.780	41.059	0.00	0.00
ATOM	3402	HA	GLN	X	224	38.895	34.784	41.434	0.00	0.00
ATOM	3403	CB	GLN	X	224	39.076	35.678	39.530	0.00	0.00
ATOM	3404	HB2	GLN	X	224	39.209	36.653	39.062	0.00	0.00
ATOM	3405	HB3	GLN	X	224	39.938	35.073	39.248	0.00	0.00
ATOM	3406	CG	GLN	X	224	37.772	35.106	39.038	0.00	0.00
ATOM	3407	HG2	GLN	X	224	37.495	34.188	39.556	0.00	0.00
ATOM	3408	HG3	GLN	X	224	37.003	35.875	39.105	0.00	0.00
ATOM	3409	CD	GLN	X	224	37.856	34.819	37.565	0.00	0.00
ATOM	3410	OE1	GLN	X	224	37.140	35.326	36.715	0.00	0.00
ATOM	3411	NE2	GLN	X	224	38.787	33.984	37.193	0.00	0.00
ATOM	3412	HE21	GLN	X	224	38.896	33.759	36.215	0.00	0.00
ATOM	3413	HE22	GLN	X	224	39.372	33.595	37.919	0.00	0.00
ATOM	3414	C	GLN	X	224	40.504	36.204	41.700	0.00	0.00
ATOM	3415	O	GLN	X	224	40.946	37.323	41.535	0.00	0.00
ATOM	3416	N	SER	X	225	41.251	35.293	42.315	0.00	0.00
ATOM	3417	H	SER	X	225	40.834	34.405	42.555	0.00	0.00
ATOM	3418	CA	SER	X	225	42.614	35.432	42.686	0.00	0.00
ATOM	3419	HA	SER	X	225	43.002	34.617	43.296	0.00	0.00
ATOM	3420	CB	SER	X	225	43.522	35.480	41.387	0.00	0.00
ATOM	3421	HB2	SER	X	225	43.118	34.952	40.523	0.00	0.00
ATOM	3422	HB3	SER	X	225	43.688	36.531	41.151	0.00	0.00
ATOM	3423	OG	SER	X	225	44.787	34.846	41.629	0.00	0.00
ATOM	3424	HG	SER	X	225	44.771	34.106	42.240	0.00	0.00
ATOM	3425	C	SER	X	225	42.917	36.631	43.672	0.00	0.00
ATOM	3426	O	SER	X	225	44.020	37.122	43.659	0.00	0.00
ATOM	3427	N	GLY	X	226	41.931	37.267	44.287	0.00	0.00
ATOM	3428	H	GLY	X	226	40.991	36.915	44.182	0.00	0.00
ATOM	3429	CA	GLY	X	226	42.082	38.500	45.111	0.00	0.00
ATOM	3430	HA2	GLY	X	226	42.962	38.383	45.744	0.00	0.00
ATOM	3431	HA3	GLY	X	226	42.439	39.250	44.406	0.00	0.00
ATOM	3432	C	GLY	X	226	40.781	38.890	45.801	0.00	0.00
ATOM	3433	O	GLY	X	226	39.710	38.384	45.537	0.00	0.00
ATOM	3434	N	ALA	X	227	40.895	39.784	46.790	0.00	0.00
ATOM	3435	H	ALA	X	227	41.782	40.264	46.854	0.00	0.00
ATOM	3436	CA	ALA	X	227	39.897	40.058	47.826	0.00	0.00
ATOM	3437	HA	ALA	X	227	38.981	40.082	47.236	0.00	0.00
ATOM	3438	CB	ALA	X	227	39.783	38.893	48.711	0.00	0.00
ATOM	3439	HB1	ALA	X	227	39.217	38.980	49.639	0.00	0.00
ATOM	3440	HB2	ALA	X	227	40.775	38.695	49.118	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.390	38.079	48.103	0.00	0.00
ATOM	3442	C	ALA	X	227	40.177	41.406	48.549	0.00	0.00
ATOM	3443	O	ALA	X	227	41.349	41.862	48.768	0.00	0.00
ATOM	3444	N	PRO	X	228	39.051	42.039	48.998	0.00	0.00
ATOM	3445	CD	PRO	X	228	37.694	41.546	49.032	0.00	0.00
ATOM	3446	HD2	PRO	X	228	37.675	40.561	49.498	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.183	41.551	48.069	0.00	0.00
ATOM	3448	CG	PRO	X	228	36.927	42.468	49.970	0.00	0.00

ATOM	3449	HG2	PRO	X	228	36.993	42.211	51.028	0.00	0.00
ATOM	3450	HG3	PRO	X	228	35.881	42.483	49.665	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.664	43.772	49.833	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.517	44.399	50.713	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.268	44.273	48.950	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.118	43.357	49.603	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.664	43.945	48.866	0.00	0.00
ATOM	3456	C	PRO	X	228	39.861	43.390	50.923	0.00	0.00
ATOM	3457	O	PRO	X	228	40.535	44.324	51.293	0.00	0.00
ATOM	3458	N	ASN	X	229	39.695	42.331	51.705	0.00	0.00
ATOM	3459	H	ASN	X	229	39.086	41.578	51.418	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.326	42.059	53.010	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.474	43.021	53.501	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.457	41.173	53.910	0.00	0.00
ATOM	3463	HB2	ASN	X	229	40.100	41.020	54.776	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.523	41.691	54.129	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.088	39.770	53.236	0.00	0.00
ATOM	3466	OD1	ASN	X	229	38.666	39.721	52.164	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.239	38.625	53.863	0.00	0.00
ATOM	3468	HD21	ASN	X	229	38.968	37.738	53.462	0.00	0.00
ATOM	3469	HD22	ASN	X	229	39.821	38.632	54.688	0.00	0.00
ATOM	3470	C	ASN	X	229	41.775	41.591	52.798	0.00	0.00
ATOM	3471	O	ASN	X	229	42.388	41.184	53.772	0.00	0.00
ATOM	3472	N	GLY	X	230	42.344	41.612	51.592	0.00	0.00
ATOM	3473	H	GLY	X	230	41.853	41.884	50.753	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.798	41.426	51.394	0.00	0.00
ATOM	3475	HA2	GLY	X	230	43.974	40.425	51.789	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.034	41.352	50.332	0.00	0.00
ATOM	3477	C	GLY	X	230	44.688	42.474	51.953	0.00	0.00
ATOM	3478	O	GLY	X	230	44.461	43.589	51.654	0.00	0.00
ATOM	3479	N	PRO	X	231	45.792	42.178	52.709	0.00	0.00
ATOM	3480	CD	PRO	X	231	46.238	40.868	53.071	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.052	40.210	52.222	0.00	0.00
ATOM	3482	HD3	PRO	X	231	45.657	40.536	53.931	0.00	0.00
ATOM	3483	CG	PRO	X	231	47.738	40.984	53.322	0.00	0.00
ATOM	3484	HG2	PRO	X	231	48.278	41.082	52.380	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.168	40.149	53.875	0.00	0.00
ATOM	3486	CB	PRO	X	231	47.743	42.348	54.040	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.723	42.818	54.112	0.00	0.00
ATOM	3488	HB3	PRO	X	231	47.454	42.187	55.078	0.00	0.00
ATOM	3489	CA	PRO	X	231	46.655	43.213	53.336	0.00	0.00
ATOM	3490	HA	PRO	X	231	46.094	43.828	54.039	0.00	0.00
ATOM	3491	C	PRO	X	231	47.218	44.195	52.340	0.00	0.00
ATOM	3492	O	PRO	X	231	47.264	45.394	52.688	0.00	0.00
ATOM	3493	N	TRP	X	232	47.448	43.775	51.083	0.00	0.00
ATOM	3494	H	TRP	X	232	47.180	42.849	50.782	0.00	0.00
ATOM	3495	CA	TRP	X	232	47.848	44.719	49.985	0.00	0.00
ATOM	3496	HA	TRP	X	232	48.634	45.423	50.262	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.304	43.821	48.815	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.649	44.444	47.989	0.00	0.00
ATOM	3499	HB3	TRP	X	232	49.154	43.234	49.161	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.258	42.890	48.348	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.090	41.663	48.909	0.00	0.00
ATOM	3502	HD1	TRP	X	232	47.786	41.167	49.570	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.144	40.994	48.155	0.00	0.00
ATOM	3504	HE1	TRP	X	232	46.184	39.985	48.162	0.00	0.00
ATOM	3505	CE2	TRP	X	232	45.517	41.854	47.275	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	44.301	41.645	46.453	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	43.844	40.675	46.326	0.00	0.00
ATOM	3508	CH2	TRP	X	232	43.944	42.717	45.612	0.00	0.00
ATOM	3509	HH2	TRP	X	232	43.227	42.544	44.823	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	44.712	43.960	45.653	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	44.364	44.816	45.093	0.00	0.00
ATOM	3512	CE3	TRP	X	232	45.874	44.022	46.375	0.00	0.00
ATOM	3513	HE3	TRP	X	232	46.453	44.933	46.415	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.238	43.002	47.331	0.00	0.00
ATOM	3515	C	TRP	X	232	46.739	45.632	49.513	0.00	0.00

ATOM	3516	O	TRP	X	232	46.945	46.574	48.726	0.00	0.00
ATOM	3517	N	ALA	X	233	45.508	45.320	49.881	0.00	0.00
ATOM	3518	H	ALA	X	233	45.401	44.489	50.445	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.262	45.936	49.322	0.00	0.00
ATOM	3520	HA	ALA	X	233	44.613	46.293	48.354	0.00	0.00
ATOM	3521	CB	ALA	X	233	43.068	44.959	49.088	0.00	0.00
ATOM	3522	HB1	ALA	X	233	42.270	45.322	48.440	0.00	0.00
ATOM	3523	HB2	ALA	X	233	42.467	44.729	49.968	0.00	0.00
ATOM	3524	HB3	ALA	X	233	43.466	43.999	48.759	0.00	0.00
ATOM	3525	C	ALA	X	233	43.833	47.286	49.998	0.00	0.00
ATOM	3526	O	ALA	X	233	42.880	47.912	49.613	0.00	0.00
ATOM	3527	N	THR	X	234	44.571	47.723	51.100	0.00	0.00
ATOM	3528	H	THR	X	234	45.446	47.279	51.336	0.00	0.00
ATOM	3529	CA	THR	X	234	44.290	49.028	51.765	0.00	0.00
ATOM	3530	HA	THR	X	234	43.766	49.575	50.981	0.00	0.00
ATOM	3531	CB	THR	X	234	43.435	48.869	53.013	0.00	0.00
ATOM	3532	HB	THR	X	234	43.706	49.751	53.593	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.891	48.963	52.728	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.386	48.538	53.595	0.00	0.00
ATOM	3535	HG22	THR	X	234	41.674	48.354	51.850	0.00	0.00
ATOM	3536	HG23	THR	X	234	41.502	49.976	52.623	0.00	0.00
ATOM	3537	OG1	THR	X	234	43.750	47.731	53.755	0.00	0.00
ATOM	3538	HG1	THR	X	234	43.609	46.929	53.248	0.00	0.00
ATOM	3539	C	THR	X	234	45.590	49.703	52.197	0.00	0.00
ATOM	3540	O	THR	X	234	46.526	49.067	52.548	0.00	0.00
ATOM	3541	N	VAL	X	235	45.594	51.050	52.333	0.00	0.00
ATOM	3542	H	VAL	X	235	44.733	51.452	51.992	0.00	0.00
ATOM	3543	CA	VAL	X	235	46.626	51.867	52.934	0.00	0.00
ATOM	3544	HA	VAL	X	235	47.201	51.204	53.581	0.00	0.00
ATOM	3545	CB	VAL	X	235	47.547	52.463	51.788	0.00	0.00
ATOM	3546	HB	VAL	X	235	47.856	51.648	51.134	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.807	53.554	51.003	0.00	0.00
ATOM	3548	HG11	VAL	X	235	46.900	54.432	51.642	0.00	0.00
ATOM	3549	HG12	VAL	X	235	47.444	53.741	50.138	0.00	0.00
ATOM	3550	HG13	VAL	X	235	45.799	53.199	50.789	0.00	0.00
ATOM	3551	CG2	VAL	X	235	48.839	52.867	52.392	0.00	0.00
ATOM	3552	HG21	VAL	X	235	49.574	53.186	51.652	0.00	0.00
ATOM	3553	HG22	VAL	X	235	49.376	52.078	52.918	0.00	0.00
ATOM	3554	HG23	VAL	X	235	48.748	53.721	53.064	0.00	0.00
ATOM	3555	C	VAL	X	235	45.912	52.904	53.774	0.00	0.00
ATOM	3556	O	VAL	X	235	44.743	53.222	53.532	0.00	0.00
ATOM	3557	N	GLY	X	236	46.496	53.509	54.758	0.00	0.00
ATOM	3558	H	GLY	X	236	47.435	53.159	54.878	0.00	0.00
ATOM	3559	CA	GLY	X	236	46.014	54.553	55.617	0.00	0.00
ATOM	3560	HA2	GLY	X	236	44.950	54.374	55.776	0.00	0.00
ATOM	3561	HA3	GLY	X	236	46.413	54.581	56.631	0.00	0.00
ATOM	3562	C	GLY	X	236	46.111	55.929	54.923	0.00	0.00
ATOM	3563	O	GLY	X	236	46.879	56.102	53.914	0.00	0.00
ATOM	3564	N	MET	X	237	45.450	56.966	55.538	0.00	0.00
ATOM	3565	H	MET	X	237	44.887	56.717	56.339	0.00	0.00
ATOM	3566	CA	MET	X	237	45.508	58.320	54.948	0.00	0.00
ATOM	3567	HA	MET	X	237	45.377	58.148	53.880	0.00	0.00
ATOM	3568	CB	MET	X	237	44.324	59.054	55.566	0.00	0.00
ATOM	3569	HB2	MET	X	237	43.389	58.561	55.301	0.00	0.00
ATOM	3570	HB3	MET	X	237	44.445	59.144	56.645	0.00	0.00
ATOM	3571	CG	MET	X	237	44.316	60.529	54.986	0.00	0.00
ATOM	3572	HG2	MET	X	237	43.646	61.162	55.568	0.00	0.00
ATOM	3573	HG3	MET	X	237	45.267	61.053	55.077	0.00	0.00
ATOM	3574	SD	MET	X	237	43.931	60.509	53.168	0.00	0.00
ATOM	3575	CE	MET	X	237	42.214	60.107	53.180	0.00	0.00
ATOM	3576	HE1	MET	X	237	41.898	59.321	53.866	0.00	0.00
ATOM	3577	HE2	MET	X	237	41.708	60.970	53.612	0.00	0.00
ATOM	3578	HE3	MET	X	237	41.947	59.878	52.148	0.00	0.00
ATOM	3579	C	MET	X	237	46.868	59.022	55.092	0.00	0.00
ATOM	3580	O	MET	X	237	47.333	59.696	54.192	0.00	0.00
ATOM	3581	N	GLY	X	238	47.496	58.842	56.252	0.00	0.00
ATOM	3582	H	GLY	X	238	47.122	58.198	56.935	0.00	0.00

ATOM	3583	CA	GLY	X	238	48.835	59.499	56.505	0.00	0.00
ATOM	3584	HA2	GLY	X	238	48.679	60.563	56.327	0.00	0.00
ATOM	3585	HA3	GLY	X	238	49.094	59.466	57.563	0.00	0.00
ATOM	3586	C	GLY	X	238	49.975	59.040	55.558	0.00	0.00
ATOM	3587	O	GLY	X	238	50.750	59.831	54.967	0.00	0.00
ATOM	3588	N	GLU	X	239	49.913	57.736	55.186	0.00	0.00
ATOM	3589	H	GLU	X	239	49.312	57.114	55.707	0.00	0.00
ATOM	3590	CA	GLU	X	239	50.723	57.182	54.104	0.00	0.00
ATOM	3591	HA	GLU	X	239	51.756	57.430	54.347	0.00	0.00
ATOM	3592	CB	GLU	X	239	50.419	55.704	53.976	0.00	0.00
ATOM	3593	HB2	GLU	X	239	49.455	55.489	54.437	0.00	0.00
ATOM	3594	HB3	GLU	X	239	50.498	55.427	52.925	0.00	0.00
ATOM	3595	CG	GLU	X	239	51.443	54.786	54.604	0.00	0.00
ATOM	3596	HG2	GLU	X	239	51.383	54.958	55.678	0.00	0.00
ATOM	3597	HG3	GLU	X	239	51.270	53.722	54.445	0.00	0.00
ATOM	3598	CD	GLU	X	239	52.861	55.103	54.136	0.00	0.00
ATOM	3599	OE1	GLU	X	239	53.243	54.538	53.057	0.00	0.00
ATOM	3600	OE2	GLU	X	239	53.602	55.881	54.759	0.00	0.00
ATOM	3601	C	GLU	X	239	50.388	57.812	52.708	0.00	0.00
ATOM	3602	O	GLU	X	239	51.345	58.270	52.038	0.00	0.00
ATOM	3603	N	ALA	X	240	49.168	58.127	52.361	0.00	0.00
ATOM	3604	H	ALA	X	240	48.389	57.883	52.957	0.00	0.00
ATOM	3605	CA	ALA	X	240	48.909	58.791	51.110	0.00	0.00
ATOM	3606	HA	ALA	X	240	49.463	58.403	50.255	0.00	0.00
ATOM	3607	CB	ALA	X	240	47.439	58.646	50.778	0.00	0.00
ATOM	3608	HB1	ALA	X	240	47.210	57.620	50.489	0.00	0.00
ATOM	3609	HB2	ALA	X	240	47.194	59.350	49.983	0.00	0.00
ATOM	3610	HB3	ALA	X	240	46.856	58.785	51.689	0.00	0.00
ATOM	3611	C	ALA	X	240	49.243	60.238	51.149	0.00	0.00
ATOM	3612	O	ALA	X	240	49.802	60.752	50.174	0.00	0.00
ATOM	3613	N	ARG	X	241	49.159	60.870	52.303	0.00	0.00
ATOM	3614	H	ARG	X	241	48.769	60.293	53.034	0.00	0.00
ATOM	3615	CA	ARG	X	241	49.644	62.242	52.616	0.00	0.00
ATOM	3616	HA	ARG	X	241	49.123	62.893	51.913	0.00	0.00
ATOM	3617	CB	ARG	X	241	49.208	62.697	54.060	0.00	0.00
ATOM	3618	HB2	ARG	X	241	48.152	62.485	54.230	0.00	0.00
ATOM	3619	HB3	ARG	X	241	49.782	62.124	54.788	0.00	0.00
ATOM	3620	CG	ARG	X	241	49.552	64.238	54.329	0.00	0.00
ATOM	3621	HG2	ARG	X	241	50.618	64.387	54.158	0.00	0.00
ATOM	3622	HG3	ARG	X	241	48.978	64.842	53.626	0.00	0.00
ATOM	3623	CD	ARG	X	241	49.142	64.488	55.754	0.00	0.00
ATOM	3624	HD2	ARG	X	241	48.228	63.905	55.875	0.00	0.00
ATOM	3625	HD3	ARG	X	241	50.018	64.194	56.332	0.00	0.00
ATOM	3626	NE	ARG	X	241	48.880	65.968	55.958	0.00	0.00
ATOM	3627	HE	ARG	X	241	48.908	66.629	55.194	0.00	0.00
ATOM	3628	CZ	ARG	X	241	49.112	66.486	57.149	0.00	0.00
ATOM	3629	NH1	ARG	X	241	49.082	65.772	58.209	0.00	0.00
ATOM	3630	HH11	ARG	X	241	48.772	64.811	58.240	0.00	0.00
ATOM	3631	HH12	ARG	X	241	49.362	66.161	59.098	0.00	0.00
ATOM	3632	NH2	ARG	X	241	49.473	67.772	57.344	0.00	0.00
ATOM	3633	HH21	ARG	X	241	49.374	68.473	56.624	0.00	0.00
ATOM	3634	HH22	ARG	X	241	49.808	68.141	58.223	0.00	0.00
ATOM	3635	C	ARG	X	241	51.140	62.319	52.228	0.00	0.00
ATOM	3636	O	ARG	X	241	51.465	63.123	51.366	0.00	0.00
ATOM	3637	N	ARG	X	242	51.911	61.409	52.753	0.00	0.00
ATOM	3638	H	ARG	X	242	51.470	60.658	53.265	0.00	0.00
ATOM	3639	CA	ARG	X	242	53.363	61.274	52.508	0.00	0.00
ATOM	3640	HA	ARG	X	242	53.761	62.259	52.754	0.00	0.00
ATOM	3641	CB	ARG	X	242	53.905	60.261	53.484	0.00	0.00
ATOM	3642	HB2	ARG	X	242	53.450	60.330	54.472	0.00	0.00
ATOM	3643	HB3	ARG	X	242	53.737	59.252	53.107	0.00	0.00
ATOM	3644	CG	ARG	X	242	55.436	60.331	53.768	0.00	0.00
ATOM	3645	HG2	ARG	X	242	55.958	60.531	52.832	0.00	0.00
ATOM	3646	HG3	ARG	X	242	55.574	61.032	54.591	0.00	0.00
ATOM	3647	CD	ARG	X	242	55.874	58.988	54.435	0.00	0.00
ATOM	3648	HD2	ARG	X	242	56.963	59.006	54.463	0.00	0.00
ATOM	3649	HD3	ARG	X	242	55.475	58.976	55.450	0.00	0.00

ATOM	3650	NE	ARG	X	242	55.604	57.686	53.756	0.00	0.00
ATOM	3651	HE	ARG	X	242	54.765	57.227	54.080	0.00	0.00
ATOM	3652	CZ	ARG	X	242	56.205	57.077	52.723	0.00	0.00
ATOM	3653	NH1	ARG	X	242	57.381	57.458	52.283	0.00	0.00
ATOM	3654	HH11	ARG	X	242	57.845	58.166	52.834	0.00	0.00
ATOM	3655	HH12	ARG	X	242	57.737	56.885	51.530	0.00	0.00
ATOM	3656	NH2	ARG	X	242	55.715	55.972	52.273	0.00	0.00
ATOM	3657	HH21	ARG	X	242	54.967	55.476	52.737	0.00	0.00
ATOM	3658	HH22	ARG	X	242	56.155	55.548	51.469	0.00	0.00
ATOM	3659	C	ARG	X	242	53.660	60.889	51.054	0.00	0.00
ATOM	3660	O	ARG	X	242	54.370	61.604	50.404	0.00	0.00
ATOM	3661	N	ARG	X	243	53.025	59.891	50.467	0.00	0.00
ATOM	3662	H	ARG	X	243	52.340	59.334	50.957	0.00	0.00
ATOM	3663	CA	ARG	X	243	53.295	59.551	49.039	0.00	0.00
ATOM	3664	HA	ARG	X	243	54.370	59.503	48.862	0.00	0.00
ATOM	3665	CB	ARG	X	243	52.736	58.176	48.498	0.00	0.00
ATOM	3666	HB2	ARG	X	243	51.650	58.241	48.436	0.00	0.00
ATOM	3667	HB3	ARG	X	243	53.112	58.028	47.485	0.00	0.00
ATOM	3668	CG	ARG	X	243	53.172	56.995	49.374	0.00	0.00
ATOM	3669	HG2	ARG	X	243	54.224	56.860	49.123	0.00	0.00
ATOM	3670	HG3	ARG	X	243	53.217	57.245	50.434	0.00	0.00
ATOM	3671	CD	ARG	X	243	52.400	55.682	49.130	0.00	0.00
ATOM	3672	HD2	ARG	X	243	51.350	55.968	49.066	0.00	0.00
ATOM	3673	HD3	ARG	X	243	52.601	55.185	48.181	0.00	0.00
ATOM	3674	NE	ARG	X	243	52.479	54.753	50.265	0.00	0.00
ATOM	3675	HE	ARG	X	243	52.864	55.076	51.141	0.00	0.00
ATOM	3676	CZ	ARG	X	243	52.278	53.430	50.132	0.00	0.00
ATOM	3677	NH1	ARG	X	243	51.927	52.926	48.963	0.00	0.00
ATOM	3678	HH11	ARG	X	243	51.754	53.536	48.178	0.00	0.00
ATOM	3679	HH12	ARG	X	243	51.653	51.953	48.965	0.00	0.00
ATOM	3680	NH2	ARG	X	243	52.300	52.627	51.187	0.00	0.00
ATOM	3681	HH21	ARG	X	243	52.472	53.135	52.043	0.00	0.00
ATOM	3682	HH22	ARG	X	243	51.876	51.711	51.204	0.00	0.00
ATOM	3683	C	ARG	X	243	52.907	60.693	48.108	0.00	0.00
ATOM	3684	O	ARG	X	243	53.573	60.771	47.102	0.00	0.00
ATOM	3685	N	ALA	X	244	51.947	61.545	48.417	0.00	0.00
ATOM	3686	H	ALA	X	244	51.324	61.354	49.189	0.00	0.00
ATOM	3687	CA	ALA	X	244	51.575	62.728	47.650	0.00	0.00
ATOM	3688	HA	ALA	X	244	51.387	62.395	46.630	0.00	0.00
ATOM	3689	CB	ALA	X	244	50.204	63.226	48.098	0.00	0.00
ATOM	3690	HB1	ALA	X	244	49.761	63.928	47.392	0.00	0.00
ATOM	3691	HB2	ALA	X	244	50.198	63.721	49.070	0.00	0.00
ATOM	3692	HB3	ALA	X	244	49.426	62.474	48.233	0.00	0.00
ATOM	3693	C	ALA	X	244	52.617	63.843	47.719	0.00	0.00
ATOM	3694	O	ALA	X	244	53.138	64.237	46.686	0.00	0.00
ATOM	3695	N	THR	X	245	53.095	64.132	48.968	0.00	0.00
ATOM	3696	H	THR	X	245	52.508	63.822	49.729	0.00	0.00
ATOM	3697	CA	THR	X	245	54.298	64.898	49.358	0.00	0.00
ATOM	3698	HA	THR	X	245	54.207	65.943	49.063	0.00	0.00
ATOM	3699	CB	THR	X	245	54.549	65.014	50.839	0.00	0.00
ATOM	3700	HB	THR	X	245	54.130	64.151	51.356	0.00	0.00
ATOM	3701	CG2	THR	X	245	55.976	65.405	51.384	0.00	0.00
ATOM	3702	HG21	THR	X	245	56.302	66.372	51.000	0.00	0.00
ATOM	3703	HG22	THR	X	245	56.770	64.685	51.181	0.00	0.00
ATOM	3704	HG23	THR	X	245	55.875	65.492	52.466	0.00	0.00
ATOM	3705	OG1	THR	X	245	53.679	65.990	51.283	0.00	0.00
ATOM	3706	HG1	THR	X	245	53.427	65.659	52.149	0.00	0.00
ATOM	3707	C	THR	X	245	55.500	64.364	48.572	0.00	0.00
ATOM	3708	O	THR	X	245	56.324	65.170	48.111	0.00	0.00
ATOM	3709	N	GLN	X	246	55.653	63.034	48.530	0.00	0.00
ATOM	3710	H	GLN	X	246	54.864	62.490	48.849	0.00	0.00
ATOM	3711	CA	GLN	X	246	56.813	62.396	47.920	0.00	0.00
ATOM	3712	HA	GLN	X	246	57.695	62.919	48.289	0.00	0.00
ATOM	3713	CB	GLN	X	246	56.856	60.951	48.349	0.00	0.00
ATOM	3714	HB2	GLN	X	246	56.556	60.891	49.395	0.00	0.00
ATOM	3715	HB3	GLN	X	246	56.138	60.505	47.661	0.00	0.00
ATOM	3716	CG	GLN	X	246	58.208	60.277	48.064	0.00	0.00

ATOM	3717	HG2	GLN	X	246	58.431	60.288	46.997	0.00	0.00
ATOM	3718	HG3	GLN	X	246	59.029	60.799	48.557	0.00	0.00
ATOM	3719	CD	GLN	X	246	58.230	58.758	48.425	0.00	0.00
ATOM	3720	OE1	GLN	X	246	57.296	58.158	48.892	0.00	0.00
ATOM	3721	NE2	GLN	X	246	59.348	58.096	48.293	0.00	0.00
ATOM	3722	HE21	GLN	X	246	59.284	57.093	48.388	0.00	0.00
ATOM	3723	HE22	GLN	X	246	60.116	58.545	47.816	0.00	0.00
ATOM	3724	C	GLN	X	246	56.768	62.586	46.319	0.00	0.00
ATOM	3725	O	GLN	X	246	57.845	62.911	45.763	0.00	0.00
ATOM	3726	N	LEU	X	247	55.605	62.321	45.648	0.00	0.00
ATOM	3727	H	LEU	X	247	54.802	62.098	46.220	0.00	0.00
ATOM	3728	CA	LEU	X	247	55.459	62.557	44.196	0.00	0.00
ATOM	3729	HA	LEU	X	247	56.118	61.912	43.614	0.00	0.00
ATOM	3730	CB	LEU	X	247	53.981	62.134	43.855	0.00	0.00
ATOM	3731	HB2	LEU	X	247	53.914	61.058	44.019	0.00	0.00
ATOM	3732	HB3	LEU	X	247	53.347	62.634	44.587	0.00	0.00
ATOM	3733	CG	LEU	X	247	53.404	62.337	42.453	0.00	0.00
ATOM	3734	HG	LEU	X	247	53.482	63.403	42.241	0.00	0.00
ATOM	3735	CD1	LEU	X	247	54.356	61.753	41.425	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.277	62.329	41.338	0.00	0.00
ATOM	3737	HD12	LEU	X	247	53.775	61.857	40.509	0.00	0.00
ATOM	3738	HD13	LEU	X	247	54.522	60.699	41.649	0.00	0.00
ATOM	3739	CD2	LEU	X	247	51.970	61.816	42.120	0.00	0.00
ATOM	3740	HD21	LEU	X	247	51.341	61.624	42.990	0.00	0.00
ATOM	3741	HD22	LEU	X	247	51.475	62.553	41.488	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.027	60.830	41.659	0.00	0.00
ATOM	3743	C	LEU	X	247	55.761	64.029	43.807	0.00	0.00
ATOM	3744	O	LEU	X	247	56.573	64.304	42.877	0.00	0.00
ATOM	3745	N	ALA	X	248	55.172	64.975	44.557	0.00	0.00
ATOM	3746	H	ALA	X	248	54.694	64.627	45.376	0.00	0.00
ATOM	3747	CA	ALA	X	248	55.533	66.382	44.589	0.00	0.00
ATOM	3748	HA	ALA	X	248	55.199	66.739	43.614	0.00	0.00
ATOM	3749	CB	ALA	X	248	54.783	67.104	45.693	0.00	0.00
ATOM	3750	HB1	ALA	X	248	53.730	67.027	45.422	0.00	0.00
ATOM	3751	HB2	ALA	X	248	55.035	68.159	45.797	0.00	0.00
ATOM	3752	HB3	ALA	X	248	54.987	66.559	46.615	0.00	0.00
ATOM	3753	C	ALA	X	248	57.058	66.676	44.695	0.00	0.00
ATOM	3754	O	ALA	X	248	57.514	67.272	43.717	0.00	0.00
ATOM	3755	N	HIE	X	249	57.807	66.218	45.635	0.00	0.00
ATOM	3756	H	HIE	X	249	57.376	65.831	46.463	0.00	0.00
ATOM	3757	CA	HIE	X	249	59.223	66.190	45.534	0.00	0.00
ATOM	3758	HA	HIE	X	249	59.667	67.179	45.645	0.00	0.00
ATOM	3759	CB	HIE	X	249	59.695	65.536	46.862	0.00	0.00
ATOM	3760	HB2	HIE	X	249	59.284	65.951	47.782	0.00	0.00
ATOM	3761	HB3	HIE	X	249	59.611	64.453	46.775	0.00	0.00
ATOM	3762	CG	HIE	X	249	61.183	65.814	47.049	0.00	0.00
ATOM	3763	ND1	HIE	X	249	61.743	67.053	47.374	0.00	0.00
ATOM	3764	CE1	HIE	X	249	63.059	66.840	47.350	0.00	0.00
ATOM	3765	HE1	HIE	X	249	63.868	67.478	47.674	0.00	0.00
ATOM	3766	NE2	HIE	X	249	63.331	65.638	46.936	0.00	0.00
ATOM	3767	HE2	HIE	X	249	64.241	65.228	46.783	0.00	0.00
ATOM	3768	CD2	HIE	X	249	62.144	64.914	46.751	0.00	0.00
ATOM	3769	HD2	HIE	X	249	62.047	63.911	46.364	0.00	0.00
ATOM	3770	C	HIE	X	249	59.875	65.402	44.389	0.00	0.00
ATOM	3771	O	HIE	X	249	60.641	66.125	43.707	0.00	0.00
ATOM	3772	N	LEU	X	250	59.738	64.102	44.095	0.00	0.00
ATOM	3773	H	LEU	X	250	59.087	63.554	44.640	0.00	0.00
ATOM	3774	CA	LEU	X	250	60.255	63.515	42.804	0.00	0.00
ATOM	3775	HA	LEU	X	250	61.329	63.378	42.924	0.00	0.00
ATOM	3776	CB	LEU	X	250	59.628	62.104	42.555	0.00	0.00
ATOM	3777	HB2	LEU	X	250	58.563	62.302	42.677	0.00	0.00
ATOM	3778	HB3	LEU	X	250	59.762	61.762	41.529	0.00	0.00
ATOM	3779	CG	LEU	X	250	60.099	61.074	43.571	0.00	0.00
ATOM	3780	HG	LEU	X	250	60.219	61.682	44.467	0.00	0.00
ATOM	3781	CD1	LEU	X	250	58.932	60.052	43.808	0.00	0.00
ATOM	3782	HD11	LEU	X	250	58.025	60.600	44.065	0.00	0.00
ATOM	3783	HD12	LEU	X	250	59.241	59.354	44.586	0.00	0.00

ATOM	3784	HD13	LEU	X	250	58.790	59.495	42.881	0.00	0.00
ATOM	3785	CD2	LEU	X	250	61.436	60.451	43.083	0.00	0.00
ATOM	3786	HD21	LEU	X	250	62.175	61.253	43.083	0.00	0.00
ATOM	3787	HD22	LEU	X	250	61.752	59.786	43.887	0.00	0.00
ATOM	3788	HD23	LEU	X	250	61.230	59.992	42.116	0.00	0.00
ATOM	3789	C	LEU	X	250	59.958	64.301	41.471	0.00	0.00
ATOM	3790	O	LEU	X	250	60.875	64.464	40.687	0.00	0.00
ATOM	3791	N	VAL	X	251	58.699	64.842	41.300	0.00	0.00
ATOM	3792	H	VAL	X	251	58.006	64.498	41.949	0.00	0.00
ATOM	3793	CA	VAL	X	251	58.350	65.648	40.058	0.00	0.00
ATOM	3794	HA	VAL	X	251	58.900	65.280	39.192	0.00	0.00
ATOM	3795	CB	VAL	X	251	56.851	65.591	39.686	0.00	0.00
ATOM	3796	HB	VAL	X	251	56.576	64.586	40.007	0.00	0.00
ATOM	3797	CG1	VAL	X	251	55.996	66.554	40.495	0.00	0.00
ATOM	3798	HG11	VAL	X	251	54.940	66.294	40.416	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.439	66.689	41.482	0.00	0.00
ATOM	3800	HG13	VAL	X	251	55.994	67.572	40.106	0.00	0.00
ATOM	3801	CG2	VAL	X	251	56.632	65.550	38.069	0.00	0.00
ATOM	3802	HG21	VAL	X	251	57.294	66.274	37.595	0.00	0.00
ATOM	3803	HG22	VAL	X	251	55.617	65.765	37.735	0.00	0.00
ATOM	3804	HG23	VAL	X	251	56.952	64.581	37.684	0.00	0.00
ATOM	3805	C	VAL	X	251	58.865	67.142	40.116	0.00	0.00
ATOM	3806	O	VAL	X	251	58.965	67.829	39.079	0.00	0.00
ATOM	3807	N	GLY	X	252	59.215	67.608	41.328	0.00	0.00
ATOM	3808	H	GLY	X	252	58.922	67.053	42.120	0.00	0.00
ATOM	3809	CA	GLY	X	252	59.665	69.036	41.514	0.00	0.00
ATOM	3810	HA2	GLY	X	252	60.231	69.100	42.444	0.00	0.00
ATOM	3811	HA3	GLY	X	252	60.236	69.447	40.681	0.00	0.00
ATOM	3812	C	GLY	X	252	58.545	70.068	41.615	0.00	0.00
ATOM	3813	O	GLY	X	252	58.696	71.132	40.974	0.00	0.00
ATOM	3814	N	CYX	X	253	57.491	69.783	42.355	0.00	0.00
ATOM	3815	H	CYX	X	253	57.543	68.934	42.901	0.00	0.00
ATOM	3816	CA	CYX	X	253	56.286	70.627	42.589	0.00	0.00
ATOM	3817	HA	CYX	X	253	56.357	71.336	41.764	0.00	0.00
ATOM	3818	CB	CYX	X	253	54.992	69.762	42.380	0.00	0.00
ATOM	3819	HB2	CYX	X	253	55.187	68.737	42.694	0.00	0.00
ATOM	3820	HB3	CYX	X	253	54.217	70.020	43.101	0.00	0.00
ATOM	3821	SG	CYX	X	253	54.307	69.981	40.735	0.00	0.00
ATOM	3822	C	CYX	X	253	56.411	71.224	44.014	0.00	0.00
ATOM	3823	O	CYX	X	253	56.876	70.512	44.892	0.00	0.00
ATOM	3824	N	PRO	X	254	55.782	72.394	44.330	0.00	0.00
ATOM	3825	CD	PRO	X	254	55.618	72.960	45.730	0.00	0.00
ATOM	3826	HD2	PRO	X	254	56.395	72.791	46.475	0.00	0.00
ATOM	3827	HD3	PRO	X	254	54.697	72.467	46.042	0.00	0.00
ATOM	3828	CG	PRO	X	254	55.381	74.472	45.556	0.00	0.00
ATOM	3829	HG2	PRO	X	254	56.335	74.979	45.413	0.00	0.00
ATOM	3830	HG3	PRO	X	254	54.968	74.813	46.506	0.00	0.00
ATOM	3831	CB	PRO	X	254	54.588	74.540	44.274	0.00	0.00
ATOM	3832	HB2	PRO	X	254	54.528	75.507	43.774	0.00	0.00
ATOM	3833	HB3	PRO	X	254	53.575	74.192	44.478	0.00	0.00
ATOM	3834	CA	PRO	X	254	55.378	73.500	43.453	0.00	0.00
ATOM	3835	HA	PRO	X	254	54.829	73.043	42.630	0.00	0.00
ATOM	3836	C	PRO	X	254	56.641	74.053	42.873	0.00	0.00
ATOM	3837	O	PRO	X	254	57.716	73.840	43.418	0.00	0.00
ATOM	3838	N	PRO	X	255	56.529	74.832	41.754	0.00	0.00
ATOM	3839	CD	PRO	X	255	55.428	75.095	40.879	0.00	0.00
ATOM	3840	HD2	PRO	X	255	54.570	75.411	41.472	0.00	0.00
ATOM	3841	HD3	PRO	X	255	55.274	74.194	40.284	0.00	0.00
ATOM	3842	CG	PRO	X	255	55.881	76.304	39.986	0.00	0.00
ATOM	3843	HG2	PRO	X	255	55.551	77.187	40.534	0.00	0.00
ATOM	3844	HG3	PRO	X	255	55.368	76.174	39.033	0.00	0.00
ATOM	3845	CB	PRO	X	255	57.421	76.263	39.880	0.00	0.00
ATOM	3846	HB2	PRO	X	255	57.841	77.263	39.765	0.00	0.00
ATOM	3847	HB3	PRO	X	255	57.550	75.671	38.974	0.00	0.00
ATOM	3848	CA	PRO	X	255	57.713	75.508	41.209	0.00	0.00
ATOM	3849	HA	PRO	X	255	58.502	74.780	41.021	0.00	0.00
ATOM	3850	C	PRO	X	255	58.371	76.458	42.136	0.00	0.00

ATOM	3851	O	PRO	X	255	57.843	76.921	43.151	0.00	0.00
ATOM	3852	N	GLY	X	256	59.661	76.663	41.867	0.00	0.00
ATOM	3853	H	GLY	X	256	59.931	76.006	41.150	0.00	0.00
ATOM	3854	CA	GLY	X	256	60.646	77.417	42.643	0.00	0.00
ATOM	3855	HA2	GLY	X	256	61.381	77.852	41.965	0.00	0.00
ATOM	3856	HA3	GLY	X	256	60.260	78.327	43.103	0.00	0.00
ATOM	3857	C	GLY	X	256	61.353	76.699	43.779	0.00	0.00
ATOM	3858	O	GLY	X	256	62.280	77.297	44.304	0.00	0.00
ATOM	3859	N	GLY	X	257	60.897	75.535	44.189	0.00	0.00
ATOM	3860	H	GLY	X	257	60.068	75.266	43.679	0.00	0.00
ATOM	3861	CA	GLY	X	257	61.529	74.613	45.106	0.00	0.00
ATOM	3862	HA2	GLY	X	257	62.109	73.914	44.503	0.00	0.00
ATOM	3863	HA3	GLY	X	257	62.330	75.049	45.704	0.00	0.00
ATOM	3864	C	GLY	X	257	60.446	73.858	45.883	0.00	0.00
ATOM	3865	O	GLY	X	257	59.392	74.402	46.287	0.00	0.00
ATOM	3866	N	THR	X	258	60.718	72.584	46.074	0.00	0.00
ATOM	3867	H	THR	X	258	61.483	72.206	45.534	0.00	0.00
ATOM	3868	CA	THR	X	258	59.802	71.623	46.706	0.00	0.00
ATOM	3869	HA	THR	X	258	58.857	71.891	46.233	0.00	0.00
ATOM	3870	CB	THR	X	258	60.239	70.111	46.528	0.00	0.00
ATOM	3871	HB	THR	X	258	59.522	69.447	47.012	0.00	0.00
ATOM	3872	CG2	THR	X	258	60.348	69.912	44.949	0.00	0.00
ATOM	3873	HG21	THR	X	258	60.739	68.910	44.771	0.00	0.00
ATOM	3874	HG22	THR	X	258	61.068	70.663	44.623	0.00	0.00
ATOM	3875	HG23	THR	X	258	59.441	70.125	44.385	0.00	0.00
ATOM	3876	OG1	THR	X	258	61.460	69.839	47.034	0.00	0.00
ATOM	3877	HG1	THR	X	258	61.580	68.887	47.024	0.00	0.00
ATOM	3878	C	THR	X	258	59.360	71.827	48.209	0.00	0.00
ATOM	3879	O	THR	X	258	59.959	72.568	48.951	0.00	0.00
ATOM	3880	N	GLY	X	259	58.204	71.267	48.545	0.00	0.00
ATOM	3881	H	GLY	X	259	57.696	70.755	47.838	0.00	0.00
ATOM	3882	CA	GLY	X	259	57.484	71.501	49.824	0.00	0.00
ATOM	3883	HA2	GLY	X	259	56.698	70.746	49.799	0.00	0.00
ATOM	3884	HA3	GLY	X	259	58.178	71.483	50.664	0.00	0.00
ATOM	3885	C	GLY	X	259	56.628	72.743	49.947	0.00	0.00
ATOM	3886	O	GLY	X	259	56.212	73.369	48.972	0.00	0.00
ATOM	3887	N	GLY	X	260	56.246	73.032	51.190	0.00	0.00
ATOM	3888	H	GLY	X	260	56.581	72.464	51.955	0.00	0.00
ATOM	3889	CA	GLY	X	260	55.400	74.242	51.450	0.00	0.00
ATOM	3890	HA2	GLY	X	260	55.784	74.705	52.359	0.00	0.00
ATOM	3891	HA3	GLY	X	260	55.440	74.908	50.588	0.00	0.00
ATOM	3892	C	GLY	X	260	53.915	73.947	51.807	0.00	0.00
ATOM	3893	O	GLY	X	260	53.455	72.882	52.345	0.00	0.00
ATOM	3894	N	ASN	X	261	53.056	74.940	51.330	0.00	0.00
ATOM	3895	H	ASN	X	261	53.481	75.792	50.994	0.00	0.00
ATOM	3896	CA	ASN	X	261	51.636	74.925	51.345	0.00	0.00
ATOM	3897	HA	ASN	X	261	51.317	74.737	52.370	0.00	0.00
ATOM	3898	CB	ASN	X	261	51.178	76.281	50.989	0.00	0.00
ATOM	3899	HB2	ASN	X	261	51.363	77.011	51.777	0.00	0.00
ATOM	3900	HB3	ASN	X	261	51.581	76.730	50.081	0.00	0.00
ATOM	3901	CG	ASN	X	261	49.701	76.319	50.757	0.00	0.00
ATOM	3902	OD1	ASN	X	261	49.228	76.424	49.560	0.00	0.00
ATOM	3903	ND2	ASN	X	261	48.840	76.229	51.771	0.00	0.00
ATOM	3904	HD21	ASN	X	261	47.843	76.119	51.651	0.00	0.00
ATOM	3905	HD22	ASN	X	261	49.205	76.406	52.695	0.00	0.00
ATOM	3906	C	ASN	X	261	51.003	73.796	50.453	0.00	0.00
ATOM	3907	O	ASN	X	261	51.102	73.841	49.210	0.00	0.00
ATOM	3908	N	ASP	X	262	50.217	72.918	51.034	0.00	0.00
ATOM	3909	H	ASP	X	262	50.005	72.976	52.020	0.00	0.00
ATOM	3910	CA	ASP	X	262	49.555	71.772	50.409	0.00	0.00
ATOM	3911	HA	ASP	X	262	50.292	71.047	50.062	0.00	0.00
ATOM	3912	CB	ASP	X	262	48.617	71.135	51.455	0.00	0.00
ATOM	3913	HB2	ASP	X	262	47.871	71.857	51.788	0.00	0.00
ATOM	3914	HB3	ASP	X	262	48.221	70.240	50.976	0.00	0.00
ATOM	3915	CG	ASP	X	262	49.437	70.713	52.649	0.00	0.00
ATOM	3916	OD1	ASP	X	262	49.188	71.349	53.713	0.00	0.00
ATOM	3917	OD2	ASP	X	262	50.267	69.781	52.584	0.00	0.00

ATOM	3918	C	ASP	X	262	48.773	72.180	49.150	0.00	0.00
ATOM	3919	O	ASP	X	262	48.642	71.349	48.199	0.00	0.00
ATOM	3920	N	THR	X	263	48.142	73.350	49.129	0.00	0.00
ATOM	3921	H	THR	X	263	48.284	74.016	49.875	0.00	0.00
ATOM	3922	CA	THR	X	263	47.266	73.778	48.091	0.00	0.00
ATOM	3923	HA	THR	X	263	46.512	73.001	47.965	0.00	0.00
ATOM	3924	CB	THR	X	263	46.409	74.938	48.493	0.00	0.00
ATOM	3925	HB	THR	X	263	46.692	75.948	48.197	0.00	0.00
ATOM	3926	CG2	THR	X	263	44.961	74.810	48.088	0.00	0.00
ATOM	3927	HG21	THR	X	263	44.777	74.570	47.041	0.00	0.00
ATOM	3928	HG22	THR	X	263	44.462	75.760	48.282	0.00	0.00
ATOM	3929	HG23	THR	X	263	44.432	74.045	48.656	0.00	0.00
ATOM	3930	OG1	THR	X	263	46.401	75.019	49.900	0.00	0.00
ATOM	3931	HG1	THR	X	263	46.068	75.903	50.074	0.00	0.00
ATOM	3932	C	THR	X	263	47.966	74.086	46.752	0.00	0.00
ATOM	3933	O	THR	X	263	47.602	73.587	45.712	0.00	0.00
ATOM	3934	N	GLU	X	264	48.995	74.892	46.782	0.00	0.00
ATOM	3935	H	GLU	X	264	49.304	75.333	47.637	0.00	0.00
ATOM	3936	CA	GLU	X	264	49.935	75.149	45.680	0.00	0.00
ATOM	3937	HA	GLU	X	264	49.334	75.651	44.922	0.00	0.00
ATOM	3938	CB	GLU	X	264	50.975	76.171	46.223	0.00	0.00
ATOM	3939	HB2	GLU	X	264	51.293	75.879	47.224	0.00	0.00
ATOM	3940	HB3	GLU	X	264	51.865	76.169	45.594	0.00	0.00
ATOM	3941	CG	GLU	X	264	50.286	77.511	46.421	0.00	0.00
ATOM	3942	HG2	GLU	X	264	49.505	77.468	47.180	0.00	0.00
ATOM	3943	HG3	GLU	X	264	51.039	78.224	46.758	0.00	0.00
ATOM	3944	CD	GLU	X	264	49.692	78.006	45.178	0.00	0.00
ATOM	3945	OE1	GLU	X	264	50.326	78.065	44.110	0.00	0.00
ATOM	3946	OE2	GLU	X	264	48.514	78.495	45.210	0.00	0.00
ATOM	3947	C	GLU	X	264	50.645	73.823	45.150	0.00	0.00
ATOM	3948	O	GLU	X	264	50.992	73.629	43.984	0.00	0.00
ATOM	3949	N	LEU	X	265	50.853	72.940	46.106	0.00	0.00
ATOM	3950	H	LEU	X	265	50.544	73.163	47.042	0.00	0.00
ATOM	3951	CA	LEU	X	265	51.461	71.674	45.824	0.00	0.00
ATOM	3952	HA	LEU	X	265	52.219	71.782	45.049	0.00	0.00
ATOM	3953	CB	LEU	X	265	52.165	71.183	47.036	0.00	0.00
ATOM	3954	HB2	LEU	X	265	52.976	71.897	47.182	0.00	0.00
ATOM	3955	HB3	LEU	X	265	51.462	71.344	47.853	0.00	0.00
ATOM	3956	CG	LEU	X	265	52.721	69.748	47.064	0.00	0.00
ATOM	3957	HG	LEU	X	265	53.347	69.650	46.177	0.00	0.00
ATOM	3958	CD1	LEU	X	265	53.767	69.599	48.174	0.00	0.00
ATOM	3959	HD11	LEU	X	265	53.500	70.210	49.036	0.00	0.00
ATOM	3960	HD12	LEU	X	265	54.713	70.037	47.856	0.00	0.00
ATOM	3961	HD13	LEU	X	265	53.886	68.530	48.348	0.00	0.00
ATOM	3962	CD2	LEU	X	265	51.607	68.666	47.029	0.00	0.00
ATOM	3963	HD21	LEU	X	265	51.774	67.733	47.567	0.00	0.00
ATOM	3964	HD22	LEU	X	265	50.651	69.068	47.364	0.00	0.00
ATOM	3965	HD23	LEU	X	265	51.664	68.378	45.979	0.00	0.00
ATOM	3966	C	LEU	X	265	50.505	70.630	45.133	0.00	0.00
ATOM	3967	O	LEU	X	265	50.961	70.146	44.075	0.00	0.00
ATOM	3968	N	VAL	X	266	49.260	70.386	45.548	0.00	0.00
ATOM	3969	H	VAL	X	266	48.962	70.846	46.396	0.00	0.00
ATOM	3970	CA	VAL	X	266	48.277	69.634	44.706	0.00	0.00
ATOM	3971	HA	VAL	X	266	48.767	68.707	44.409	0.00	0.00
ATOM	3972	CB	VAL	X	266	47.070	69.187	45.590	0.00	0.00
ATOM	3973	HB	VAL	X	266	47.499	68.750	46.491	0.00	0.00
ATOM	3974	CG1	VAL	X	266	46.132	70.430	45.810	0.00	0.00
ATOM	3975	HG11	VAL	X	266	46.726	71.172	46.343	0.00	0.00
ATOM	3976	HG12	VAL	X	266	45.779	70.798	44.846	0.00	0.00
ATOM	3977	HG13	VAL	X	266	45.300	70.202	46.475	0.00	0.00
ATOM	3978	CG2	VAL	X	266	46.275	68.157	44.839	0.00	0.00
ATOM	3979	HG21	VAL	X	266	45.592	67.667	45.533	0.00	0.00
ATOM	3980	HG22	VAL	X	266	46.804	67.320	44.383	0.00	0.00
ATOM	3981	HG23	VAL	X	266	45.756	68.643	44.013	0.00	0.00
ATOM	3982	C	VAL	X	266	47.735	70.374	43.348	0.00	0.00
ATOM	3983	O	VAL	X	266	47.627	69.774	42.338	0.00	0.00
ATOM	3984	N	ALA	X	267	47.744	71.681	43.403	0.00	0.00

ATOM	3985	H	ALA	X	267	47.654	72.101	44.317	0.00	0.00
ATOM	3986	CA	ALA	X	267	47.530	72.496	42.207	0.00	0.00
ATOM	3987	HA	ALA	X	267	46.510	72.330	41.857	0.00	0.00
ATOM	3988	CB	ALA	X	267	47.636	74.018	42.490	0.00	0.00
ATOM	3989	HB1	ALA	X	267	46.854	74.278	43.202	0.00	0.00
ATOM	3990	HB2	ALA	X	267	47.497	74.643	41.608	0.00	0.00
ATOM	3991	HB3	ALA	X	267	48.597	74.155	42.985	0.00	0.00
ATOM	3992	C	ALA	X	267	48.625	72.184	41.135	0.00	0.00
ATOM	3993	O	ALA	X	267	48.338	71.744	40.038	0.00	0.00
ATOM	3994	N	CYX	X	268	49.934	72.242	41.510	0.00	0.00
ATOM	3995	H	CYX	X	268	50.136	72.531	42.456	0.00	0.00
ATOM	3996	CA	CYX	X	268	51.074	71.962	40.588	0.00	0.00
ATOM	3997	HA	CYX	X	268	50.988	72.703	39.793	0.00	0.00
ATOM	3998	CB	CYX	X	268	52.367	72.158	41.369	0.00	0.00
ATOM	3999	HB2	CYX	X	268	52.262	73.156	41.794	0.00	0.00
ATOM	4000	HB3	CYX	X	268	52.440	71.442	42.187	0.00	0.00
ATOM	4001	SG	CYX	X	268	53.990	71.917	40.533	0.00	0.00
ATOM	4002	C	CYX	X	268	51.046	70.499	39.981	0.00	0.00
ATOM	4003	O	CYX	X	268	51.235	70.232	38.818	0.00	0.00
ATOM	4004	N	LEU	X	269	50.650	69.536	40.841	0.00	0.00
ATOM	4005	H	LEU	X	269	50.546	69.855	41.793	0.00	0.00
ATOM	4006	CA	LEU	X	269	50.257	68.130	40.452	0.00	0.00
ATOM	4007	HA	LEU	X	269	51.051	67.732	39.821	0.00	0.00
ATOM	4008	CB	LEU	X	269	50.102	67.373	41.801	0.00	0.00
ATOM	4009	HB2	LEU	X	269	49.972	68.103	42.600	0.00	0.00
ATOM	4010	HB3	LEU	X	269	49.241	66.714	41.684	0.00	0.00
ATOM	4011	CG	LEU	X	269	51.324	66.504	42.120	0.00	0.00
ATOM	4012	HG	LEU	X	269	51.416	65.764	41.325	0.00	0.00
ATOM	4013	CD1	LEU	X	269	52.604	67.197	42.301	0.00	0.00
ATOM	4014	HD11	LEU	X	269	53.435	66.651	42.749	0.00	0.00
ATOM	4015	HD12	LEU	X	269	52.382	68.067	42.919	0.00	0.00
ATOM	4016	HD13	LEU	X	269	52.801	67.570	41.296	0.00	0.00
ATOM	4017	CD2	LEU	X	269	51.043	65.652	43.395	0.00	0.00
ATOM	4018	HD21	LEU	X	269	50.947	66.450	44.132	0.00	0.00
ATOM	4019	HD22	LEU	X	269	50.095	65.130	43.262	0.00	0.00
ATOM	4020	HD23	LEU	X	269	51.834	64.930	43.597	0.00	0.00
ATOM	4021	C	LEU	X	269	48.951	67.899	39.597	0.00	0.00
ATOM	4022	O	LEU	X	269	48.760	66.860	38.977	0.00	0.00
ATOM	4023	N	ARG	X	270	48.165	68.956	39.401	0.00	0.00
ATOM	4024	H	ARG	X	270	48.250	69.785	39.971	0.00	0.00
ATOM	4025	CA	ARG	X	270	47.128	69.059	38.364	0.00	0.00
ATOM	4026	HA	ARG	X	270	46.906	68.045	38.033	0.00	0.00
ATOM	4027	CB	ARG	X	270	45.821	69.664	38.930	0.00	0.00
ATOM	4028	HB2	ARG	X	270	46.001	70.598	39.463	0.00	0.00
ATOM	4029	HB3	ARG	X	270	45.181	69.783	38.055	0.00	0.00
ATOM	4030	CG	ARG	X	270	45.030	68.711	39.869	0.00	0.00
ATOM	4031	HG2	ARG	X	270	45.072	67.704	39.457	0.00	0.00
ATOM	4032	HG3	ARG	X	270	45.496	68.668	40.854	0.00	0.00
ATOM	4033	CD	ARG	X	270	43.594	69.058	40.103	0.00	0.00
ATOM	4034	HD2	ARG	X	270	42.917	68.705	39.324	0.00	0.00
ATOM	4035	HD3	ARG	X	270	43.371	68.396	40.940	0.00	0.00
ATOM	4036	NE	ARG	X	270	43.272	70.464	40.465	0.00	0.00
ATOM	4037	HE	ARG	X	270	43.889	71.169	40.088	0.00	0.00
ATOM	4038	CZ	ARG	X	270	42.364	70.771	41.389	0.00	0.00
ATOM	4039	NH1	ARG	X	270	41.614	69.830	41.984	0.00	0.00
ATOM	4040	HH11	ARG	X	270	41.766	68.833	41.940	0.00	0.00
ATOM	4041	HH12	ARG	X	270	40.895	70.122	42.630	0.00	0.00
ATOM	4042	NH2	ARG	X	270	42.202	71.998	41.770	0.00	0.00
ATOM	4043	HH21	ARG	X	270	42.700	72.664	41.196	0.00	0.00
ATOM	4044	HH22	ARG	X	270	41.503	72.326	42.420	0.00	0.00
ATOM	4045	C	ARG	X	270	47.572	69.860	37.164	0.00	0.00
ATOM	4046	O	ARG	X	270	47.004	69.626	36.071	0.00	0.00
ATOM	4047	N	THR	X	271	48.522	70.731	37.309	0.00	0.00
ATOM	4048	H	THR	X	271	48.725	70.994	38.263	0.00	0.00
ATOM	4049	CA	THR	X	271	49.131	71.575	36.233	0.00	0.00
ATOM	4050	HA	THR	X	271	48.389	71.812	35.471	0.00	0.00
ATOM	4051	CB	THR	X	271	49.634	72.878	36.844	0.00	0.00

ATOM	4052	HB	THR	X	271	50.610	72.712	37.299	0.00	0.00
ATOM	4053	CG2	THR	X	271	49.631	74.010	35.806	0.00	0.00
ATOM	4054	HG21	THR	X	271	48.643	74.046	35.345	0.00	0.00
ATOM	4055	HG22	THR	X	271	50.286	73.729	34.981	0.00	0.00
ATOM	4056	HG23	THR	X	271	49.887	74.959	36.277	0.00	0.00
ATOM	4057	OG1	THR	X	271	48.710	73.412	37.784	0.00	0.00
ATOM	4058	HG1	THR	X	271	49.131	74.209	38.113	0.00	0.00
ATOM	4059	C	THR	X	271	50.250	71.014	35.509	0.00	0.00
ATOM	4060	O	THR	X	271	50.194	70.935	34.290	0.00	0.00
ATOM	4061	N	ARG	X	272	51.175	70.293	36.072	0.00	0.00
ATOM	4062	H	ARG	X	272	51.292	70.342	37.074	0.00	0.00
ATOM	4063	CA	ARG	X	272	52.189	69.514	35.355	0.00	0.00
ATOM	4064	HA	ARG	X	272	52.617	70.169	34.596	0.00	0.00
ATOM	4065	CB	ARG	X	272	53.305	69.188	36.314	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.650	70.091	36.818	0.00	0.00
ATOM	4067	HB3	ARG	X	272	52.920	68.503	37.069	0.00	0.00
ATOM	4068	CG	ARG	X	272	54.566	68.535	35.661	0.00	0.00
ATOM	4069	HG2	ARG	X	272	55.108	68.102	36.501	0.00	0.00
ATOM	4070	HG3	ARG	X	272	54.282	67.707	35.012	0.00	0.00
ATOM	4071	CD	ARG	X	272	55.504	69.468	34.799	0.00	0.00
ATOM	4072	HD2	ARG	X	272	54.977	70.243	34.242	0.00	0.00
ATOM	4073	HD3	ARG	X	272	56.148	69.983	35.513	0.00	0.00
ATOM	4074	NE	ARG	X	272	56.516	68.861	34.001	0.00	0.00
ATOM	4075	HE	ARG	X	272	57.153	68.235	34.472	0.00	0.00
ATOM	4076	CZ	ARG	X	272	56.651	68.930	32.677	0.00	0.00
ATOM	4077	NH1	ARG	X	272	56.099	69.806	31.905	0.00	0.00
ATOM	4078	HH11	ARG	X	272	55.304	70.348	32.213	0.00	0.00
ATOM	4079	HH12	ARG	X	272	56.384	69.828	30.937	0.00	0.00
ATOM	4080	NH2	ARG	X	272	57.553	68.253	32.089	0.00	0.00
ATOM	4081	HH21	ARG	X	272	58.107	67.594	32.618	0.00	0.00
ATOM	4082	HH22	ARG	X	272	57.846	68.583	31.181	0.00	0.00
ATOM	4083	C	ARG	X	272	51.513	68.237	34.771	0.00	0.00
ATOM	4084	O	ARG	X	272	50.637	67.714	35.499	0.00	0.00
ATOM	4085	N	PRO	X	273	51.698	67.908	33.479	0.00	0.00
ATOM	4086	CD	PRO	X	273	52.559	68.581	32.494	0.00	0.00
ATOM	4087	HD2	PRO	X	273	53.574	68.210	32.635	0.00	0.00
ATOM	4088	HD3	PRO	X	273	52.547	69.671	32.520	0.00	0.00
ATOM	4089	CG	PRO	X	273	52.031	68.142	31.119	0.00	0.00
ATOM	4090	HG2	PRO	X	273	52.872	68.073	30.430	0.00	0.00
ATOM	4091	HG3	PRO	X	273	51.269	68.803	30.706	0.00	0.00
ATOM	4092	CB	PRO	X	273	51.457	66.790	31.348	0.00	0.00
ATOM	4093	HB2	PRO	X	273	52.185	65.982	31.284	0.00	0.00
ATOM	4094	HB3	PRO	X	273	50.569	66.572	30.753	0.00	0.00
ATOM	4095	CA	PRO	X	273	51.060	66.762	32.842	0.00	0.00
ATOM	4096	HA	PRO	X	273	49.990	66.965	32.904	0.00	0.00
ATOM	4097	C	PRO	X	273	51.287	65.467	33.629	0.00	0.00
ATOM	4098	O	PRO	X	273	52.156	65.231	34.427	0.00	0.00
ATOM	4099	N	ALA	X	274	50.270	64.626	33.439	0.00	0.00
ATOM	4100	H	ALA	X	274	49.545	64.809	32.760	0.00	0.00
ATOM	4101	CA	ALA	X	274	49.975	63.401	34.192	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.087	63.531	35.269	0.00	0.00
ATOM	4103	CB	ALA	X	274	48.501	63.125	33.828	0.00	0.00
ATOM	4104	HB1	ALA	X	274	48.104	62.286	34.400	0.00	0.00
ATOM	4105	HB2	ALA	X	274	48.514	62.921	32.758	0.00	0.00
ATOM	4106	HB3	ALA	X	274	47.885	64.021	33.916	0.00	0.00
ATOM	4107	C	ALA	X	274	50.869	62.234	33.765	0.00	0.00
ATOM	4108	O	ALA	X	274	51.193	61.346	34.573	0.00	0.00
ATOM	4109	N	GLN	X	275	51.437	62.277	32.530	0.00	0.00
ATOM	4110	H	GLN	X	275	51.112	62.977	31.878	0.00	0.00
ATOM	4111	CA	GLN	X	275	52.315	61.206	32.036	0.00	0.00
ATOM	4112	HA	GLN	X	275	51.809	60.283	32.320	0.00	0.00
ATOM	4113	CB	GLN	X	275	52.291	61.272	30.477	0.00	0.00
ATOM	4114	HB2	GLN	X	275	51.239	61.296	30.196	0.00	0.00
ATOM	4115	HB3	GLN	X	275	52.522	62.284	30.143	0.00	0.00
ATOM	4116	CG	GLN	X	275	52.935	60.087	29.754	0.00	0.00
ATOM	4117	HG2	GLN	X	275	53.987	59.886	29.958	0.00	0.00
ATOM	4118	HG3	GLN	X	275	52.376	59.175	29.962	0.00	0.00

ATOM	4119	CD	GLN	X	275	52.881	60.269	28.273	0.00	0.00
ATOM	4120	OE1	GLN	X	275	52.996	61.305	27.647	0.00	0.00
ATOM	4121	NE2	GLN	X	275	52.672	59.144	27.563	0.00	0.00
ATOM	4122	HE21	GLN	X	275	52.397	59.177	26.591	0.00	0.00
ATOM	4123	HE22	GLN	X	275	52.690	58.296	28.112	0.00	0.00
ATOM	4124	C	GLN	X	275	53.613	61.196	32.823	0.00	0.00
ATOM	4125	O	GLN	X	275	54.097	60.134	33.188	0.00	0.00
ATOM	4126	N	VAL	X	276	54.176	62.409	33.108	0.00	0.00
ATOM	4127	H	VAL	X	276	53.792	63.230	32.662	0.00	0.00
ATOM	4128	CA	VAL	X	276	55.520	62.519	33.791	0.00	0.00
ATOM	4129	HA	VAL	X	276	56.141	61.786	33.274	0.00	0.00
ATOM	4130	CB	VAL	X	276	56.217	63.842	33.439	0.00	0.00
ATOM	4131	HB	VAL	X	276	56.208	63.971	32.357	0.00	0.00
ATOM	4132	CG1	VAL	X	276	55.491	65.093	34.056	0.00	0.00
ATOM	4133	HG11	VAL	X	276	56.140	65.952	34.228	0.00	0.00
ATOM	4134	HG12	VAL	X	276	54.732	65.470	33.371	0.00	0.00
ATOM	4135	HG13	VAL	X	276	54.848	64.847	34.901	0.00	0.00
ATOM	4136	CG2	VAL	X	276	57.717	63.749	33.869	0.00	0.00
ATOM	4137	HG21	VAL	X	276	58.329	63.077	33.267	0.00	0.00
ATOM	4138	HG22	VAL	X	276	57.699	63.384	34.896	0.00	0.00
ATOM	4139	HG23	VAL	X	276	58.128	64.758	33.834	0.00	0.00
ATOM	4140	C	VAL	X	276	55.349	62.202	35.320	0.00	0.00
ATOM	4141	O	VAL	X	276	56.224	61.674	36.037	0.00	0.00
ATOM	4142	N	LEU	X	277	54.152	62.509	35.846	0.00	0.00
ATOM	4143	H	LEU	X	277	53.490	62.948	35.222	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.693	62.174	37.199	0.00	0.00
ATOM	4145	HA	LEU	X	277	54.443	62.585	37.874	0.00	0.00
ATOM	4146	CB	LEU	X	277	52.293	62.702	37.579	0.00	0.00
ATOM	4147	HB2	LEU	X	277	51.580	62.197	36.926	0.00	0.00
ATOM	4148	HB3	LEU	X	277	52.078	62.336	38.583	0.00	0.00
ATOM	4149	CG	LEU	X	277	52.156	64.227	37.659	0.00	0.00
ATOM	4150	HG	LEU	X	277	52.341	64.623	36.661	0.00	0.00
ATOM	4151	CD1	LEU	X	277	50.669	64.535	37.975	0.00	0.00
ATOM	4152	HD11	LEU	X	277	50.526	65.615	37.954	0.00	0.00
ATOM	4153	HD12	LEU	X	277	50.343	64.148	38.941	0.00	0.00
ATOM	4154	HD13	LEU	X	277	50.029	63.998	37.275	0.00	0.00
ATOM	4155	CD2	LEU	X	277	53.057	64.860	38.741	0.00	0.00
ATOM	4156	HD21	LEU	X	277	52.762	64.442	39.703	0.00	0.00
ATOM	4157	HD22	LEU	X	277	54.045	64.473	38.491	0.00	0.00
ATOM	4158	HD23	LEU	X	277	52.936	65.943	38.732	0.00	0.00
ATOM	4159	C	LEU	X	277	53.689	60.666	37.426	0.00	0.00
ATOM	4160	O	LEU	X	277	54.329	60.276	38.366	0.00	0.00
ATOM	4161	N	VAL	X	278	53.115	59.876	36.520	0.00	0.00
ATOM	4162	H	VAL	X	278	52.527	60.333	35.839	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.068	58.464	36.682	0.00	0.00
ATOM	4164	HA	VAL	X	278	52.920	58.291	37.748	0.00	0.00
ATOM	4165	CB	VAL	X	278	51.978	57.667	35.982	0.00	0.00
ATOM	4166	HB	VAL	X	278	50.983	58.068	36.177	0.00	0.00
ATOM	4167	CG1	VAL	X	278	52.209	57.751	34.465	0.00	0.00
ATOM	4168	HG11	VAL	X	278	51.938	56.823	33.961	0.00	0.00
ATOM	4169	HG12	VAL	X	278	51.464	58.447	34.081	0.00	0.00
ATOM	4170	HG13	VAL	X	278	53.225	58.061	34.222	0.00	0.00
ATOM	4171	CG2	VAL	X	278	51.888	56.184	36.381	0.00	0.00
ATOM	4172	HG21	VAL	X	278	52.752	55.599	36.068	0.00	0.00
ATOM	4173	HG22	VAL	X	278	50.986	55.690	36.019	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.002	56.158	37.465	0.00	0.00
ATOM	4175	C	VAL	X	278	54.479	57.844	36.416	0.00	0.00
ATOM	4176	O	VAL	X	278	54.784	56.868	37.070	0.00	0.00
ATOM	4177	N	ASN	X	279	55.251	58.601	35.683	0.00	0.00
ATOM	4178	H	ASN	X	279	54.981	59.445	35.197	0.00	0.00
ATOM	4179	CA	ASN	X	279	56.601	58.053	35.435	0.00	0.00
ATOM	4180	HA	ASN	X	279	56.544	57.006	35.136	0.00	0.00
ATOM	4181	CB	ASN	X	279	57.196	58.846	34.264	0.00	0.00
ATOM	4182	HB2	ASN	X	279	56.378	58.941	33.551	0.00	0.00
ATOM	4183	HB3	ASN	X	279	57.489	59.862	34.526	0.00	0.00
ATOM	4184	CG	ASN	X	279	58.293	57.953	33.623	0.00	0.00
ATOM	4185	OD1	ASN	X	279	57.974	57.025	32.877	0.00	0.00

ATOM	4186	ND2	ASN	X	279	59.570	58.312	33.899	0.00	0.00
ATOM	4187	HD21	ASN	X	279	60.338	57.781	33.515	0.00	0.00
ATOM	4188	HD22	ASN	X	279	59.778	59.209	34.314	0.00	0.00
ATOM	4189	C	ASN	X	279	57.536	58.145	36.671	0.00	0.00
ATOM	4190	O	ASN	X	279	58.241	57.206	37.039	0.00	0.00
ATOM	4191	N	HIE	X	280	57.411	59.244	37.442	0.00	0.00
ATOM	4192	H	HIE	X	280	56.692	59.931	37.264	0.00	0.00
ATOM	4193	CA	HIE	X	280	57.974	59.250	38.799	0.00	0.00
ATOM	4194	HA	HIE	X	280	58.951	58.776	38.888	0.00	0.00
ATOM	4195	CB	HIE	X	280	58.172	60.742	39.151	0.00	0.00
ATOM	4196	HB2	HIE	X	280	57.455	61.335	38.583	0.00	0.00
ATOM	4197	HB3	HIE	X	280	58.074	60.928	40.221	0.00	0.00
ATOM	4198	CG	HIE	X	280	59.452	61.315	38.734	0.00	0.00
ATOM	4199	ND1	HIE	X	280	60.659	60.598	38.934	0.00	0.00
ATOM	4200	CE1	HIE	X	280	61.575	61.469	38.435	0.00	0.00
ATOM	4201	HE1	HIE	X	280	62.649	61.383	38.354	0.00	0.00
ATOM	4202	NE2	HIE	X	280	61.006	62.553	37.952	0.00	0.00
ATOM	4203	HE2	HIE	X	280	61.377	63.320	37.410	0.00	0.00
ATOM	4204	CD2	HIE	X	280	59.637	62.460	38.081	0.00	0.00
ATOM	4205	HD2	HIE	X	280	58.927	63.254	37.900	0.00	0.00
ATOM	4206	C	HIE	X	280	57.017	58.612	39.916	0.00	0.00
ATOM	4207	O	HIE	X	280	57.523	58.418	41.068	0.00	0.00
ATOM	4208	N	GLU	X	281	55.747	58.111	39.662	0.00	0.00
ATOM	4209	H	GLU	X	281	55.370	58.288	38.742	0.00	0.00
ATOM	4210	CA	GLU	X	281	54.925	57.475	40.699	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.162	58.084	41.572	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.431	57.377	40.194	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.134	58.357	39.823	0.00	0.00
ATOM	4214	HB3	GLU	X	281	53.364	56.711	39.334	0.00	0.00
ATOM	4215	CG	GLU	X	281	52.266	56.918	41.183	0.00	0.00
ATOM	4216	HG2	GLU	X	281	52.637	56.166	41.879	0.00	0.00
ATOM	4217	HG3	GLU	X	281	52.055	57.801	41.787	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.049	56.391	40.426	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.256	57.049	39.805	0.00	0.00
ATOM	4220	OE2	GLU	X	281	50.961	55.154	40.311	0.00	0.00
ATOM	4221	C	GLU	X	281	55.435	56.061	40.976	0.00	0.00
ATOM	4222	O	GLU	X	281	55.312	55.634	42.081	0.00	0.00
ATOM	4223	N	TRP	X	282	55.984	55.328	39.956	0.00	0.00
ATOM	4224	H	TRP	X	282	56.057	55.575	38.979	0.00	0.00
ATOM	4225	CA	TRP	X	282	56.650	53.996	40.198	0.00	0.00
ATOM	4226	HA	TRP	X	282	55.932	53.208	40.426	0.00	0.00
ATOM	4227	CB	TRP	X	282	57.217	53.580	38.849	0.00	0.00
ATOM	4228	HB2	TRP	X	282	56.370	53.583	38.162	0.00	0.00
ATOM	4229	HB3	TRP	X	282	57.960	54.330	38.577	0.00	0.00
ATOM	4230	CG	TRP	X	282	57.947	52.275	38.783	0.00	0.00
ATOM	4231	CD1	TRP	X	282	57.413	51.055	39.022	0.00	0.00
ATOM	4232	HD1	TRP	X	282	56.390	50.846	39.297	0.00	0.00
ATOM	4233	NE1	TRP	X	282	58.404	50.092	39.135	0.00	0.00
ATOM	4234	HE1	TRP	X	282	58.234	49.141	39.431	0.00	0.00
ATOM	4235	CE2	TRP	X	282	59.623	50.555	38.863	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	60.876	49.967	38.666	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	61.035	48.935	38.944	0.00	0.00
ATOM	4238	CH2	TRP	X	282	61.932	50.659	38.048	0.00	0.00
ATOM	4239	HH2	TRP	X	282	62.894	50.194	37.890	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	61.681	51.957	37.685	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	62.532	52.576	37.442	0.00	0.00
ATOM	4242	CE3	TRP	X	282	60.519	52.644	37.930	0.00	0.00
ATOM	4243	HE3	TRP	X	282	60.475	53.687	37.654	0.00	0.00
ATOM	4244	CD2	TRP	X	282	59.357	51.942	38.448	0.00	0.00
ATOM	4245	C	TRP	X	282	57.737	54.029	41.299	0.00	0.00
ATOM	4246	O	TRP	X	282	58.070	53.000	41.874	0.00	0.00
ATOM	4247	N	HIE	X	283	58.245	55.250	41.623	0.00	0.00
ATOM	4248	H	HIE	X	283	57.873	56.063	41.153	0.00	0.00
ATOM	4249	CA	HIE	X	283	59.217	55.456	42.704	0.00	0.00
ATOM	4250	HA	HIE	X	283	59.787	54.572	42.990	0.00	0.00
ATOM	4251	CB	HIE	X	283	60.178	56.521	42.232	0.00	0.00
ATOM	4252	HB2	HIE	X	283	59.625	57.435	42.018	0.00	0.00

ATOM	4253	HB3	HIE	X	283	60.827	56.715	43.087	0.00	0.00
ATOM	4254	CG	HIE	X	283	61.155	56.089	41.158	0.00	0.00
ATOM	4255	ND1	HIE	X	283	61.682	56.968	40.240	0.00	0.00
ATOM	4256	CE1	HIE	X	283	62.508	56.232	39.484	0.00	0.00
ATOM	4257	HE1	HIE	X	283	63.158	56.663	38.737	0.00	0.00
ATOM	4258	NE2	HIE	X	283	62.506	54.982	39.889	0.00	0.00
ATOM	4259	HE2	HIE	X	283	62.994	54.218	39.444	0.00	0.00
ATOM	4260	CD2	HIE	X	283	61.799	54.857	41.054	0.00	0.00
ATOM	4261	HD2	HIE	X	283	61.482	53.957	41.561	0.00	0.00
ATOM	4262	C	HIE	X	283	58.531	55.803	44.047	0.00	0.00
ATOM	4263	O	HIE	X	283	59.267	55.875	45.005	0.00	0.00
ATOM	4264	N	VAL	X	284	57.194	55.917	44.196	0.00	0.00
ATOM	4265	H	VAL	X	284	56.602	55.908	43.378	0.00	0.00
ATOM	4266	CA	VAL	X	284	56.493	55.969	45.516	0.00	0.00
ATOM	4267	HA	VAL	X	284	57.230	56.440	46.166	0.00	0.00
ATOM	4268	CB	VAL	X	284	55.297	56.906	45.638	0.00	0.00
ATOM	4269	HB	VAL	X	284	55.051	57.021	46.694	0.00	0.00
ATOM	4270	CG1	VAL	X	284	55.748	58.303	45.132	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.957	58.193	44.068	0.00	0.00
ATOM	4272	HG12	VAL	X	284	54.978	59.053	45.316	0.00	0.00
ATOM	4273	HG13	VAL	X	284	56.561	58.448	45.843	0.00	0.00
ATOM	4274	CG2	VAL	X	284	53.982	56.553	44.892	0.00	0.00
ATOM	4275	HG21	VAL	X	284	53.782	57.040	43.938	0.00	0.00
ATOM	4276	HG22	VAL	X	284	53.127	56.626	45.565	0.00	0.00
ATOM	4277	HG23	VAL	X	284	53.919	55.504	44.601	0.00	0.00
ATOM	4278	C	VAL	X	284	56.205	54.547	46.141	0.00	0.00
ATOM	4279	O	VAL	X	284	55.956	54.485	47.349	0.00	0.00
ATOM	4280	N	LEU	X	285	56.342	53.485	45.317	0.00	0.00
ATOM	4281	H	LEU	X	285	56.651	53.594	44.362	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.267	52.087	45.780	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.232	51.894	46.065	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.717	51.106	44.664	0.00	0.00
ATOM	4285	HB2	LEU	X	285	57.576	51.484	44.109	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.023	50.203	45.192	0.00	0.00
ATOM	4287	CG	LEU	X	285	55.637	50.592	43.705	0.00	0.00
ATOM	4288	HG	LEU	X	285	54.957	49.991	44.309	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.920	51.783	43.040	0.00	0.00
ATOM	4290	HD11	LEU	X	285	55.661	52.512	42.713	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.193	52.212	43.729	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.320	51.480	42.182	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.404	49.684	42.696	0.00	0.00
ATOM	4294	HD21	LEU	X	285	56.932	50.284	41.955	0.00	0.00
ATOM	4295	HD22	LEU	X	285	57.134	49.042	43.190	0.00	0.00
ATOM	4296	HD23	LEU	X	285	55.700	49.026	42.187	0.00	0.00
ATOM	4297	C	LEU	X	285	57.027	51.897	47.120	0.00	0.00
ATOM	4298	O	LEU	X	285	58.122	52.397	47.375	0.00	0.00
ATOM	4299	N	PRO	X	286	56.480	51.071	48.084	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.076	50.522	48.193	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.844	49.900	47.329	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.495	51.438	48.306	0.00	0.00
ATOM	4303	CG	PRO	X	286	54.991	49.743	49.485	0.00	0.00
ATOM	4304	HG2	PRO	X	286	55.044	48.667	49.321	0.00	0.00
ATOM	4305	HG3	PRO	X	286	54.020	49.961	49.930	0.00	0.00
ATOM	4306	CB	PRO	X	286	56.174	50.360	50.316	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.618	49.629	50.992	0.00	0.00
ATOM	4308	HB3	PRO	X	286	55.970	51.310	50.809	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.247	50.738	49.244	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.790	51.546	49.735	0.00	0.00
ATOM	4311	C	PRO	X	286	58.247	49.599	49.038	0.00	0.00
ATOM	4312	O	PRO	X	286	58.079	48.739	48.170	0.00	0.00
ATOM	4313	N	GLN	X	287	59.315	49.631	49.844	0.00	0.00
ATOM	4314	H	GLN	X	287	59.534	50.402	50.459	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.364	48.592	49.986	0.00	0.00
ATOM	4316	HA	GLN	X	287	60.259	47.903	49.148	0.00	0.00
ATOM	4317	CB	GLN	X	287	61.747	49.326	49.881	0.00	0.00
ATOM	4318	HB2	GLN	X	287	61.849	50.127	50.614	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.451	48.555	50.193	0.00	0.00

ATOM	4320	CG	GLN	X	287	62.093	49.757	48.464	0.00	0.00
ATOM	4321	HG2	GLN	X	287	62.122	48.895	47.796	0.00	0.00
ATOM	4322	HG3	GLN	X	287	61.304	50.467	48.220	0.00	0.00
ATOM	4323	CD	GLN	X	287	63.408	50.576	48.573	0.00	0.00
ATOM	4324	OE1	GLN	X	287	63.363	51.784	48.511	0.00	0.00
ATOM	4325	NE2	GLN	X	287	64.519	49.963	48.621	0.00	0.00
ATOM	4326	HE21	GLN	X	287	65.351	50.438	48.942	0.00	0.00
ATOM	4327	HE22	GLN	X	287	64.535	48.967	48.455	0.00	0.00
ATOM	4328	C	GLN	X	287	60.309	47.657	51.250	0.00	0.00
ATOM	4329	O	GLN	X	287	59.475	47.817	52.097	0.00	0.00
ATOM	4330	N	GLU	X	288	61.190	46.619	51.193	0.00	0.00
ATOM	4331	H	GLU	X	288	61.649	46.508	50.300	0.00	0.00
ATOM	4332	CA	GLU	X	288	61.125	45.418	51.986	0.00	0.00
ATOM	4333	HA	GLU	X	288	61.604	44.630	51.405	0.00	0.00
ATOM	4334	CB	GLU	X	288	61.893	45.513	53.338	0.00	0.00
ATOM	4335	HB2	GLU	X	288	61.384	46.181	54.032	0.00	0.00
ATOM	4336	HB3	GLU	X	288	61.816	44.578	53.894	0.00	0.00
ATOM	4337	CG	GLU	X	288	63.351	45.796	53.131	0.00	0.00
ATOM	4338	HG2	GLU	X	288	63.816	44.912	52.694	0.00	0.00
ATOM	4339	HG3	GLU	X	288	63.531	46.664	52.497	0.00	0.00
ATOM	4340	CD	GLU	X	288	64.086	46.141	54.452	0.00	0.00
ATOM	4341	OE1	GLU	X	288	64.075	47.302	54.862	0.00	0.00
ATOM	4342	OE2	GLU	X	288	64.548	45.219	55.179	0.00	0.00
ATOM	4343	C	GLU	X	288	59.662	44.851	52.040	0.00	0.00
ATOM	4344	O	GLU	X	288	59.147	44.676	53.139	0.00	0.00
ATOM	4345	N	SER	X	289	58.922	44.802	50.917	0.00	0.00
ATOM	4346	H	SER	X	289	59.341	45.132	50.060	0.00	0.00
ATOM	4347	CA	SER	X	289	57.466	44.644	50.880	0.00	0.00
ATOM	4348	HA	SER	X	289	57.166	43.858	51.574	0.00	0.00
ATOM	4349	CB	SER	X	289	56.682	45.985	51.271	0.00	0.00
ATOM	4350	HB2	SER	X	289	56.929	46.786	50.574	0.00	0.00
ATOM	4351	HB3	SER	X	289	55.603	45.860	51.173	0.00	0.00
ATOM	4352	OG	SER	X	289	57.062	46.465	52.564	0.00	0.00
ATOM	4353	HG	SER	X	289	58.009	46.380	52.700	0.00	0.00
ATOM	4354	C	SER	X	289	57.004	44.113	49.524	0.00	0.00
ATOM	4355	O	SER	X	289	56.474	44.882	48.695	0.00	0.00
ATOM	4356	N	VAL	X	290	57.037	42.784	49.271	0.00	0.00
ATOM	4357	H	VAL	X	290	57.466	42.157	49.936	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.511	42.243	48.039	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.876	42.846	47.208	0.00	0.00
ATOM	4360	CB	VAL	X	290	56.913	40.809	47.737	0.00	0.00
ATOM	4361	HB	VAL	X	290	56.671	40.251	48.642	0.00	0.00
ATOM	4362	CG1	VAL	X	290	56.398	40.107	46.406	0.00	0.00
ATOM	4363	HG11	VAL	X	290	57.024	39.243	46.185	0.00	0.00
ATOM	4364	HG12	VAL	X	290	55.341	39.874	46.538	0.00	0.00
ATOM	4365	HG13	VAL	X	290	56.561	40.799	45.580	0.00	0.00
ATOM	4366	CG2	VAL	X	290	58.445	40.753	47.464	0.00	0.00
ATOM	4367	HG21	VAL	X	290	58.651	41.379	46.596	0.00	0.00
ATOM	4368	HG22	VAL	X	290	58.804	39.736	47.309	0.00	0.00
ATOM	4369	HG23	VAL	X	290	59.094	41.125	48.257	0.00	0.00
ATOM	4370	C	VAL	X	290	55.020	42.373	48.026	0.00	0.00
ATOM	4371	O	VAL	X	290	54.368	42.413	49.055	0.00	0.00
ATOM	4372	N	PHE	X	291	54.379	42.267	46.866	0.00	0.00
ATOM	4373	H	PHE	X	291	54.911	42.095	46.024	0.00	0.00
ATOM	4374	CA	PHE	X	291	52.836	42.339	46.699	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.567	42.383	45.643	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.254	41.021	47.148	0.00	0.00
ATOM	4377	HB2	PHE	X	291	53.065	40.305	47.019	0.00	0.00
ATOM	4378	HB3	PHE	X	291	52.028	41.074	48.213	0.00	0.00
ATOM	4379	CG	PHE	X	291	50.961	40.484	46.479	0.00	0.00
ATOM	4380	CD1	PHE	X	291	49.837	41.256	46.226	0.00	0.00
ATOM	4381	HD1	PHE	X	291	49.827	42.301	46.500	0.00	0.00
ATOM	4382	CE1	PHE	X	291	48.734	40.734	45.580	0.00	0.00
ATOM	4383	HE1	PHE	X	291	47.836	41.298	45.372	0.00	0.00
ATOM	4384	CZ	PHE	X	291	48.686	39.345	45.336	0.00	0.00
ATOM	4385	HZ	PHE	X	291	47.793	38.872	44.954	0.00	0.00
ATOM	4386	CE2	PHE	X	291	49.762	38.517	45.620	0.00	0.00

ATOM	4387	HE2	PHE	X	291	49.740	37.450	45.453	0.00	0.00
ATOM	4388	CD2	PHE	X	291	50.903	39.116	46.141	0.00	0.00
ATOM	4389	HD2	PHE	X	291	51.764	38.494	46.338	0.00	0.00
ATOM	4390	C	PHE	X	291	52.236	43.664	47.183	0.00	0.00
ATOM	4391	O	PHE	X	291	51.278	43.664	47.970	0.00	0.00
ATOM	4392	N	ARG	X	292	52.949	44.787	46.909	0.00	0.00
ATOM	4393	H	ARG	X	292	53.609	44.747	46.145	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.555	46.119	47.421	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.468	46.059	47.473	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.258	46.384	48.781	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.325	46.272	48.586	0.00	0.00
ATOM	4398	HB3	ARG	X	292	53.155	47.428	49.078	0.00	0.00
ATOM	4399	CG	ARG	X	292	52.940	45.534	49.954	0.00	0.00
ATOM	4400	HG2	ARG	X	292	53.331	44.553	49.681	0.00	0.00
ATOM	4401	HG3	ARG	X	292	53.629	45.667	50.788	0.00	0.00
ATOM	4402	CD	ARG	X	292	51.500	45.431	50.398	0.00	0.00
ATOM	4403	HD2	ARG	X	292	51.183	46.125	51.176	0.00	0.00
ATOM	4404	HD3	ARG	X	292	50.906	45.462	49.484	0.00	0.00
ATOM	4405	NE	ARG	X	292	51.254	44.099	50.939	0.00	0.00
ATOM	4406	HE	ARG	X	292	51.380	43.341	50.284	0.00	0.00
ATOM	4407	CZ	ARG	X	292	50.922	43.751	52.157	0.00	0.00
ATOM	4408	NH1	ARG	X	292	50.703	44.646	53.080	0.00	0.00
ATOM	4409	HH11	ARG	X	292	50.967	45.597	52.868	0.00	0.00
ATOM	4410	HH12	ARG	X	292	50.236	44.347	53.925	0.00	0.00
ATOM	4411	NH2	ARG	X	292	50.739	42.521	52.534	0.00	0.00
ATOM	4412	HH21	ARG	X	292	50.738	41.722	51.916	0.00	0.00
ATOM	4413	HH22	ARG	X	292	50.649	42.180	53.480	0.00	0.00
ATOM	4414	C	ARG	X	292	53.040	47.266	46.446	0.00	0.00
ATOM	4415	O	ARG	X	292	54.084	47.172	45.777	0.00	0.00
ATOM	4416	N	PHE	X	293	52.205	48.302	46.286	0.00	0.00
ATOM	4417	H	PHE	X	293	51.451	48.218	46.952	0.00	0.00
ATOM	4418	CA	PHE	X	293	51.911	49.115	45.100	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.748	49.008	44.410	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.739	48.454	44.480	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.937	48.737	45.163	0.00	0.00
ATOM	4422	HB3	PHE	X	293	50.568	48.936	43.518	0.00	0.00
ATOM	4423	CG	PHE	X	293	50.651	46.875	44.422	0.00	0.00
ATOM	4424	CD1	PHE	X	293	51.750	46.291	43.734	0.00	0.00
ATOM	4425	HD1	PHE	X	293	52.550	46.828	43.246	0.00	0.00
ATOM	4426	CE1	PHE	X	293	51.783	44.861	43.699	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.645	44.426	43.213	0.00	0.00
ATOM	4428	CZ	PHE	X	293	50.818	44.034	44.259	0.00	0.00
ATOM	4429	HZ	PHE	X	293	50.850	42.965	44.106	0.00	0.00
ATOM	4430	CE2	PHE	X	293	49.709	44.677	44.842	0.00	0.00
ATOM	4431	HE2	PHE	X	293	48.884	44.092	45.222	0.00	0.00
ATOM	4432	CD2	PHE	X	293	49.528	46.086	44.830	0.00	0.00
ATOM	4433	HD2	PHE	X	293	48.594	46.498	45.182	0.00	0.00
ATOM	4434	C	PHE	X	293	51.895	50.644	45.413	0.00	0.00
ATOM	4435	O	PHE	X	293	52.363	51.083	46.474	0.00	0.00
ATOM	4436	N	SER	X	294	51.403	51.471	44.487	0.00	0.00
ATOM	4437	H	SER	X	294	51.125	51.077	43.600	0.00	0.00
ATOM	4438	CA	SER	X	294	51.634	52.933	44.631	0.00	0.00
ATOM	4439	HA	SER	X	294	52.599	53.112	45.104	0.00	0.00
ATOM	4440	CB	SER	X	294	51.822	53.557	43.210	0.00	0.00
ATOM	4441	HB2	SER	X	294	51.917	54.638	43.318	0.00	0.00
ATOM	4442	HB3	SER	X	294	52.763	53.278	42.736	0.00	0.00
ATOM	4443	OG	SER	X	294	50.760	53.382	42.327	0.00	0.00
ATOM	4444	HG	SER	X	294	50.699	54.056	41.647	0.00	0.00
ATOM	4445	C	SER	X	294	50.571	53.702	45.449	0.00	0.00
ATOM	4446	O	SER	X	294	50.864	54.159	46.541	0.00	0.00
ATOM	4447	N	PHE	X	295	49.364	53.902	44.906	0.00	0.00
ATOM	4448	H	PHE	X	295	49.276	53.512	43.979	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.170	54.513	45.555	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.359	54.648	46.620	0.00	0.00
ATOM	4451	CB	PHE	X	295	47.780	55.867	44.846	0.00	0.00
ATOM	4452	HB2	PHE	X	295	47.771	55.631	43.782	0.00	0.00
ATOM	4453	HB3	PHE	X	295	46.862	56.191	45.337	0.00	0.00

ATOM	4454	CG	PHE	X	295	48.717	57.022	45.102	0.00	0.00
ATOM	4455	CD1	PHE	X	295	48.516	57.906	46.273	0.00	0.00
ATOM	4456	HD1	PHE	X	295	47.638	57.656	46.849	0.00	0.00
ATOM	4457	CE1	PHE	X	295	49.388	58.948	46.542	0.00	0.00
ATOM	4458	HE1	PHE	X	295	49.181	59.556	47.410	0.00	0.00
ATOM	4459	CZ	PHE	X	295	50.506	59.008	45.802	0.00	0.00
ATOM	4460	HZ	PHE	X	295	51.267	59.705	46.119	0.00	0.00
ATOM	4461	CE2	PHE	X	295	50.801	58.136	44.774	0.00	0.00
ATOM	4462	HE2	PHE	X	295	51.774	58.163	44.306	0.00	0.00
ATOM	4463	CD2	PHE	X	295	49.886	57.168	44.367	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.117	56.535	43.523	0.00	0.00
ATOM	4465	C	PHE	X	295	47.087	53.411	45.323	0.00	0.00
ATOM	4466	O	PHE	X	295	46.789	52.901	44.240	0.00	0.00
ATOM	4467	N	VAL	X	296	46.424	53.021	46.457	0.00	0.00
ATOM	4468	H	VAL	X	296	46.507	53.722	47.180	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.572	51.863	46.619	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.256	51.643	45.599	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.421	50.708	47.260	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.757	49.858	47.099	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.728	50.390	46.531	0.00	0.00
ATOM	4474	HG11	VAL	X	296	48.461	51.059	46.982	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.964	49.334	46.659	0.00	0.00
ATOM	4476	HG13	VAL	X	296	47.715	50.638	45.470	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.713	50.849	48.774	0.00	0.00
ATOM	4478	HG21	VAL	X	296	47.360	51.714	48.922	0.00	0.00
ATOM	4479	HG22	VAL	X	296	47.261	49.980	49.139	0.00	0.00
ATOM	4480	HG23	VAL	X	296	45.764	50.916	49.305	0.00	0.00
ATOM	4481	C	VAL	X	296	44.366	52.322	47.428	0.00	0.00
ATOM	4482	O	VAL	X	296	44.389	53.448	47.881	0.00	0.00
ATOM	4483	N	PRO	X	297	43.266	51.548	47.668	0.00	0.00
ATOM	4484	CD	PRO	X	297	43.043	50.303	47.074	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.663	49.494	47.460	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.331	50.329	46.024	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.554	49.956	47.310	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.322	48.896	47.418	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.887	50.466	46.615	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.312	50.607	48.661	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.545	49.920	49.474	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.258	50.808	48.852	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.164	51.834	48.525	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.629	52.612	47.980	0.00	0.00
ATOM	4495	C	PRO	X	297	42.493	52.390	49.919	0.00	0.00
ATOM	4496	O	PRO	X	297	43.314	51.802	50.641	0.00	0.00
ATOM	4497	N	VAL	X	298	42.064	53.588	50.224	0.00	0.00
ATOM	4498	H	VAL	X	298	41.256	53.988	49.768	0.00	0.00
ATOM	4499	CA	VAL	X	298	42.328	54.319	51.471	0.00	0.00
ATOM	4500	HA	VAL	X	298	43.213	53.932	51.978	0.00	0.00
ATOM	4501	CB	VAL	X	298	42.510	55.820	51.139	0.00	0.00
ATOM	4502	HB	VAL	X	298	41.539	56.204	50.825	0.00	0.00
ATOM	4503	CG1	VAL	X	298	43.071	56.554	52.357	0.00	0.00
ATOM	4504	HG11	VAL	X	298	44.008	56.047	52.586	0.00	0.00
ATOM	4505	HG12	VAL	X	298	43.075	57.596	52.039	0.00	0.00
ATOM	4506	HG13	VAL	X	298	42.451	56.426	53.244	0.00	0.00
ATOM	4507	CG2	VAL	X	298	43.337	56.143	49.936	0.00	0.00
ATOM	4508	HG21	VAL	X	298	43.464	57.225	49.925	0.00	0.00
ATOM	4509	HG22	VAL	X	298	42.842	55.943	48.985	0.00	0.00
ATOM	4510	HG23	VAL	X	298	44.272	55.582	49.931	0.00	0.00
ATOM	4511	C	VAL	X	298	41.322	54.017	52.476	0.00	0.00
ATOM	4512	O	VAL	X	298	40.112	54.299	52.270	0.00	0.00
ATOM	4513	N	VAL	X	299	41.755	53.534	53.644	0.00	0.00
ATOM	4514	H	VAL	X	299	42.693	53.167	53.718	0.00	0.00
ATOM	4515	CA	VAL	X	299	40.986	53.655	54.852	0.00	0.00
ATOM	4516	HA	VAL	X	299	39.978	53.256	54.742	0.00	0.00
ATOM	4517	CB	VAL	X	299	41.651	52.743	55.943	0.00	0.00
ATOM	4518	HB	VAL	X	299	42.712	52.991	55.949	0.00	0.00
ATOM	4519	CG1	VAL	X	299	41.107	53.002	57.404	0.00	0.00
ATOM	4520	HG11	VAL	X	299	41.508	52.287	58.122	0.00	0.00

ATOM	4521	HG12	VAL	X	299	41.422	53.937	57.869	0.00	0.00
ATOM	4522	HG13	VAL	X	299	40.017	53.002	57.394	0.00	0.00
ATOM	4523	CG2	VAL	X	299	41.500	51.315	55.525	0.00	0.00
ATOM	4524	HG21	VAL	X	299	42.478	50.941	55.221	0.00	0.00
ATOM	4525	HG22	VAL	X	299	40.866	51.040	54.682	0.00	0.00
ATOM	4526	HG23	VAL	X	299	41.171	50.773	56.412	0.00	0.00
ATOM	4527	C	VAL	X	299	40.886	55.124	55.238	0.00	0.00
ATOM	4528	O	VAL	X	299	41.792	55.667	55.833	0.00	0.00
ATOM	4529	N	ASP	X	300	39.829	55.761	54.858	0.00	0.00
ATOM	4530	H	ASP	X	300	39.182	55.147	54.384	0.00	0.00
ATOM	4531	CA	ASP	X	300	39.737	57.228	54.686	0.00	0.00
ATOM	4532	HA	ASP	X	300	40.708	57.662	54.924	0.00	0.00
ATOM	4533	CB	ASP	X	300	39.446	57.502	53.237	0.00	0.00
ATOM	4534	HB2	ASP	X	300	39.547	58.561	53.002	0.00	0.00
ATOM	4535	HB3	ASP	X	300	40.057	56.900	52.565	0.00	0.00
ATOM	4536	CG	ASP	X	300	38.013	57.203	52.943	0.00	0.00
ATOM	4537	OD1	ASP	X	300	37.554	56.041	52.871	0.00	0.00
ATOM	4538	OD2	ASP	X	300	37.173	58.115	52.724	0.00	0.00
ATOM	4539	C	ASP	X	300	38.626	57.883	55.539	0.00	0.00
ATOM	4540	O	ASP	X	300	38.623	59.118	55.738	0.00	0.00
ATOM	4541	N	GLY	X	301	37.823	56.994	56.107	0.00	0.00
ATOM	4542	H	GLY	X	301	38.038	56.026	55.914	0.00	0.00
ATOM	4543	CA	GLY	X	301	36.792	57.184	57.098	0.00	0.00
ATOM	4544	HA2	GLY	X	301	36.831	56.473	57.924	0.00	0.00
ATOM	4545	HA3	GLY	X	301	36.892	58.177	57.536	0.00	0.00
ATOM	4546	C	GLY	X	301	35.410	57.196	56.538	0.00	0.00
ATOM	4547	O	GLY	X	301	34.540	56.903	57.320	0.00	0.00
ATOM	4548	N	ASP	X	302	35.280	57.439	55.211	0.00	0.00
ATOM	4549	H	ASP	X	302	36.131	57.741	54.758	0.00	0.00
ATOM	4550	CA	ASP	X	302	33.935	57.655	54.602	0.00	0.00
ATOM	4551	HA	ASP	X	302	33.126	57.604	55.330	0.00	0.00
ATOM	4552	CB	ASP	X	302	34.033	59.040	53.992	0.00	0.00
ATOM	4553	HB2	ASP	X	302	34.387	59.758	54.732	0.00	0.00
ATOM	4554	HB3	ASP	X	302	34.752	58.971	53.176	0.00	0.00
ATOM	4555	CG	ASP	X	302	32.689	59.405	53.324	0.00	0.00
ATOM	4556	OD1	ASP	X	302	31.653	59.356	53.974	0.00	0.00
ATOM	4557	OD2	ASP	X	302	32.674	59.775	52.080	0.00	0.00
ATOM	4558	C	ASP	X	302	33.500	56.689	53.509	0.00	0.00
ATOM	4559	O	ASP	X	302	32.326	56.314	53.446	0.00	0.00
ATOM	4560	N	PHE	X	303	34.421	56.181	52.720	0.00	0.00
ATOM	4561	H	PHE	X	303	35.405	56.373	52.836	0.00	0.00
ATOM	4562	CA	PHE	X	303	34.244	54.812	52.101	0.00	0.00
ATOM	4563	HA	PHE	X	303	33.241	54.702	51.688	0.00	0.00
ATOM	4564	CB	PHE	X	303	35.171	54.750	50.938	0.00	0.00
ATOM	4565	HB2	PHE	X	303	35.484	55.692	50.486	0.00	0.00
ATOM	4566	HB3	PHE	X	303	36.088	54.313	51.334	0.00	0.00
ATOM	4567	CG	PHE	X	303	34.618	53.883	49.844	0.00	0.00
ATOM	4568	CD1	PHE	X	303	34.625	52.451	49.895	0.00	0.00
ATOM	4569	HD1	PHE	X	303	34.965	51.936	50.781	0.00	0.00
ATOM	4570	CE1	PHE	X	303	34.446	51.766	48.698	0.00	0.00
ATOM	4571	HE1	PHE	X	303	34.529	50.690	48.756	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.964	52.401	47.588	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.867	51.876	46.685	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.867	53.827	47.483	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.436	54.200	46.566	0.00	0.00
ATOM	4576	CD2	PHE	X	303	34.265	54.547	48.576	0.00	0.00
ATOM	4577	HD2	PHE	X	303	34.381	55.619	48.530	0.00	0.00
ATOM	4578	C	PHE	X	303	34.474	53.686	53.118	0.00	0.00
ATOM	4579	O	PHE	X	303	33.622	52.814	53.302	0.00	0.00
ATOM	4580	N	LEU	X	304	35.607	53.759	53.774	0.00	0.00
ATOM	4581	H	LEU	X	304	36.245	54.502	53.525	0.00	0.00
ATOM	4582	CA	LEU	X	304	36.258	52.683	54.594	0.00	0.00
ATOM	4583	HA	LEU	X	304	35.581	51.838	54.717	0.00	0.00
ATOM	4584	CB	LEU	X	304	37.527	52.300	53.822	0.00	0.00
ATOM	4585	HB2	LEU	X	304	38.086	53.221	53.656	0.00	0.00
ATOM	4586	HB3	LEU	X	304	38.161	51.674	54.449	0.00	0.00
ATOM	4587	CG	LEU	X	304	37.370	51.397	52.576	0.00	0.00

ATOM	4588	HG	LEU	X	304	37.024	52.032	51.760	0.00	0.00
ATOM	4589	CD1	LEU	X	304	38.772	50.767	52.308	0.00	0.00
ATOM	4590	HD11	LEU	X	304	39.485	51.586	52.208	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.882	50.137	51.425	0.00	0.00
ATOM	4592	HD13	LEU	X	304	39.141	50.146	53.124	0.00	0.00
ATOM	4593	CD2	LEU	X	304	36.364	50.280	52.828	0.00	0.00
ATOM	4594	HD21	LEU	X	304	36.548	49.784	53.781	0.00	0.00
ATOM	4595	HD22	LEU	X	304	35.363	50.710	52.801	0.00	0.00
ATOM	4596	HD23	LEU	X	304	36.437	49.569	52.005	0.00	0.00
ATOM	4597	C	LEU	X	304	36.503	53.234	56.040	0.00	0.00
ATOM	4598	O	LEU	X	304	37.557	53.799	56.279	0.00	0.00
ATOM	4599	N	SER	X	305	35.575	53.037	56.915	0.00	0.00
ATOM	4600	H	SER	X	305	34.799	52.534	56.509	0.00	0.00
ATOM	4601	CA	SER	X	305	35.777	53.371	58.367	0.00	0.00
ATOM	4602	HA	SER	X	305	36.161	54.378	58.525	0.00	0.00
ATOM	4603	CB	SER	X	305	34.414	53.243	59.115	0.00	0.00
ATOM	4604	HB2	SER	X	305	34.564	53.489	60.166	0.00	0.00
ATOM	4605	HB3	SER	X	305	33.713	53.956	58.680	0.00	0.00
ATOM	4606	OG	SER	X	305	33.765	51.946	59.016	0.00	0.00
ATOM	4607	HG	SER	X	305	33.309	51.927	58.172	0.00	0.00
ATOM	4608	C	SER	X	305	36.838	52.507	59.019	0.00	0.00
ATOM	4609	O	SER	X	305	37.089	52.775	60.198	0.00	0.00
ATOM	4610	N	ASP	X	306	37.435	51.550	58.370	0.00	0.00
ATOM	4611	H	ASP	X	306	37.197	51.379	57.403	0.00	0.00
ATOM	4612	CA	ASP	X	306	38.432	50.632	58.875	0.00	0.00
ATOM	4613	HA	ASP	X	306	39.337	51.189	59.118	0.00	0.00
ATOM	4614	CB	ASP	X	306	37.932	49.857	60.175	0.00	0.00
ATOM	4615	HB2	ASP	X	306	37.109	50.375	60.667	0.00	0.00
ATOM	4616	HB3	ASP	X	306	37.725	48.800	60.004	0.00	0.00
ATOM	4617	CG	ASP	X	306	39.133	49.753	61.121	0.00	0.00
ATOM	4618	OD1	ASP	X	306	40.097	49.099	60.685	0.00	0.00
ATOM	4619	OD2	ASP	X	306	39.050	50.243	62.272	0.00	0.00
ATOM	4620	C	ASP	X	306	38.719	49.642	57.698	0.00	0.00
ATOM	4621	O	ASP	X	306	38.079	49.672	56.634	0.00	0.00
ATOM	4622	N	THR	X	307	39.762	48.813	57.831	0.00	0.00
ATOM	4623	H	THR	X	307	40.148	48.702	58.758	0.00	0.00
ATOM	4624	CA	THR	X	307	40.267	47.800	56.881	0.00	0.00
ATOM	4625	HA	THR	X	307	40.497	48.293	55.937	0.00	0.00
ATOM	4626	CB	THR	X	307	41.508	47.091	57.297	0.00	0.00
ATOM	4627	HB	THR	X	307	41.915	46.371	56.586	0.00	0.00
ATOM	4628	CG2	THR	X	307	42.696	48.125	57.416	0.00	0.00
ATOM	4629	HG21	THR	X	307	43.174	48.246	56.444	0.00	0.00
ATOM	4630	HG22	THR	X	307	43.389	47.694	58.139	0.00	0.00
ATOM	4631	HG23	THR	X	307	42.392	49.034	57.935	0.00	0.00
ATOM	4632	OG1	THR	X	307	41.333	46.375	58.481	0.00	0.00
ATOM	4633	HG1	THR	X	307	42.095	45.852	58.741	0.00	0.00
ATOM	4634	C	THR	X	307	39.185	46.730	56.643	0.00	0.00
ATOM	4635	O	THR	X	307	38.442	46.416	57.587	0.00	0.00
ATOM	4636	N	PRO	X	308	38.883	46.323	55.378	0.00	0.00
ATOM	4637	CD	PRO	X	308	39.281	46.923	54.105	0.00	0.00
ATOM	4638	HD2	PRO	X	308	40.310	46.646	53.880	0.00	0.00
ATOM	4639	HD3	PRO	X	308	39.203	48.010	54.137	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.366	46.347	53.042	0.00	0.00
ATOM	4641	HG2	PRO	X	308	38.892	46.310	52.088	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.484	46.976	52.913	0.00	0.00
ATOM	4643	CB	PRO	X	308	38.003	44.980	53.655	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.873	44.325	53.625	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.138	44.513	53.182	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.856	45.379	55.124	0.00	0.00
ATOM	4647	HA	PRO	X	308	36.916	45.881	55.349	0.00	0.00
ATOM	4648	C	PRO	X	308	37.961	44.026	55.951	0.00	0.00
ATOM	4649	O	PRO	X	308	36.947	43.450	56.219	0.00	0.00
ATOM	4650	N	GLU	X	309	39.115	43.652	56.524	0.00	0.00
ATOM	4651	H	GLU	X	309	39.906	44.180	56.184	0.00	0.00
ATOM	4652	CA	GLU	X	309	39.262	42.547	57.455	0.00	0.00
ATOM	4653	HA	GLU	X	309	38.775	41.733	56.918	0.00	0.00
ATOM	4654	CB	GLU	X	309	40.740	42.182	57.500	0.00	0.00

ATOM	4655	HB2	GLU	X	309	41.055	41.786	56.535	0.00	0.00
ATOM	4656	HB3	GLU	X	309	41.329	43.079	57.695	0.00	0.00
ATOM	4657	CG	GLU	X	309	41.044	41.058	58.467	0.00	0.00
ATOM	4658	HG2	GLU	X	309	40.755	41.401	59.461	0.00	0.00
ATOM	4659	HG3	GLU	X	309	40.370	40.242	58.205	0.00	0.00
ATOM	4660	CD	GLU	X	309	42.440	40.567	58.537	0.00	0.00
ATOM	4661	OE1	GLU	X	309	42.628	39.390	58.172	0.00	0.00
ATOM	4662	OE2	GLU	X	309	43.370	41.354	58.846	0.00	0.00
ATOM	4663	C	GLU	X	309	38.619	42.754	58.804	0.00	0.00
ATOM	4664	O	GLU	X	309	38.185	41.750	59.401	0.00	0.00
ATOM	4665	N	ALA	X	310	38.528	44.039	59.322	0.00	0.00
ATOM	4666	H	ALA	X	310	38.787	44.830	58.749	0.00	0.00
ATOM	4667	CA	ALA	X	310	37.718	44.367	60.464	0.00	0.00
ATOM	4668	HA	ALA	X	310	37.665	43.580	61.216	0.00	0.00
ATOM	4669	CB	ALA	X	310	38.314	45.637	61.153	0.00	0.00
ATOM	4670	HB1	ALA	X	310	38.122	46.557	60.602	0.00	0.00
ATOM	4671	HB2	ALA	X	310	39.390	45.525	61.286	0.00	0.00
ATOM	4672	HB3	ALA	X	310	37.787	45.625	62.107	0.00	0.00
ATOM	4673	C	ALA	X	310	36.194	44.566	60.098	0.00	0.00
ATOM	4674	O	ALA	X	310	35.269	44.057	60.771	0.00	0.00
ATOM	4675	N	LEU	X	311	35.981	45.182	58.919	0.00	0.00
ATOM	4676	H	LEU	X	311	36.748	45.523	58.358	0.00	0.00
ATOM	4677	CA	LEU	X	311	34.614	45.604	58.504	0.00	0.00
ATOM	4678	HA	LEU	X	311	34.156	46.075	59.373	0.00	0.00
ATOM	4679	CB	LEU	X	311	34.637	46.773	57.489	0.00	0.00
ATOM	4680	HB2	LEU	X	311	35.214	46.395	56.645	0.00	0.00
ATOM	4681	HB3	LEU	X	311	33.611	47.030	57.223	0.00	0.00
ATOM	4682	CG	LEU	X	311	35.210	48.130	58.020	0.00	0.00
ATOM	4683	HG	LEU	X	311	36.268	48.108	58.282	0.00	0.00
ATOM	4684	CD1	LEU	X	311	34.908	49.214	56.977	0.00	0.00
ATOM	4685	HD11	LEU	X	311	35.310	50.172	57.306	0.00	0.00
ATOM	4686	HD12	LEU	X	311	33.839	49.213	56.762	0.00	0.00
ATOM	4687	HD13	LEU	X	311	35.577	48.984	56.147	0.00	0.00
ATOM	4688	CD2	LEU	X	311	34.557	48.575	59.337	0.00	0.00
ATOM	4689	HD21	LEU	X	311	34.719	47.816	60.103	0.00	0.00
ATOM	4690	HD22	LEU	X	311	34.969	49.454	59.832	0.00	0.00
ATOM	4691	HD23	LEU	X	311	33.478	48.707	59.254	0.00	0.00
ATOM	4692	C	LEU	X	311	33.739	44.445	58.011	0.00	0.00
ATOM	4693	O	LEU	X	311	32.458	44.624	58.044	0.00	0.00
ATOM	4694	N	ILE	X	312	34.284	43.268	57.701	0.00	0.00
ATOM	4695	H	ILE	X	312	35.290	43.212	57.632	0.00	0.00
ATOM	4696	CA	ILE	X	312	33.563	42.021	57.325	0.00	0.00
ATOM	4697	HA	ILE	X	312	32.663	42.362	56.812	0.00	0.00
ATOM	4698	CB	ILE	X	312	34.441	41.076	56.466	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.958	41.712	55.747	0.00	0.00
ATOM	4700	CG2	ILE	X	312	35.683	40.542	57.237	0.00	0.00
ATOM	4701	HG21	ILE	X	312	36.026	41.274	57.968	0.00	0.00
ATOM	4702	HG22	ILE	X	312	36.536	40.333	56.592	0.00	0.00
ATOM	4703	HG23	ILE	X	312	35.392	39.610	57.721	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.705	39.923	55.747	0.00	0.00
ATOM	4705	HG12	ILE	X	312	34.501	39.272	55.385	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.937	39.404	56.320	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.025	40.459	54.440	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.674	40.655	53.587	0.00	0.00
ATOM	4709	HD12	ILE	X	312	32.364	41.321	54.531	0.00	0.00
ATOM	4710	HD13	ILE	X	312	32.365	39.629	54.191	0.00	0.00
ATOM	4711	C	ILE	X	312	33.083	41.312	58.586	0.00	0.00
ATOM	4712	O	ILE	X	312	32.098	40.609	58.386	0.00	0.00
ATOM	4713	N	ASN	X	313	33.654	41.512	59.786	0.00	0.00
ATOM	4714	H	ASN	X	313	34.487	42.083	59.800	0.00	0.00
ATOM	4715	CA	ASN	X	313	33.242	41.030	61.117	0.00	0.00
ATOM	4716	HA	ASN	X	313	32.741	40.078	60.942	0.00	0.00
ATOM	4717	CB	ASN	X	313	34.497	40.807	62.063	0.00	0.00
ATOM	4718	HB2	ASN	X	313	35.292	40.238	61.581	0.00	0.00
ATOM	4719	HB3	ASN	X	313	34.758	41.839	62.295	0.00	0.00
ATOM	4720	CG	ASN	X	313	34.174	40.020	63.339	0.00	0.00
ATOM	4721	OD1	ASN	X	313	33.082	39.503	63.545	0.00	0.00

ATOM	4722	ND2	ASN	X	313	35.221	39.767	64.123	0.00	0.00
ATOM	4723	HD21	ASN	X	313	35.199	39.162	64.932	0.00	0.00
ATOM	4724	HD22	ASN	X	313	36.093	40.205	63.865	0.00	0.00
ATOM	4725	C	ASN	X	313	32.227	41.974	61.773	0.00	0.00
ATOM	4726	O	ASN	X	313	31.224	41.506	62.335	0.00	0.00
ATOM	4727	N	ALA	X	314	32.439	43.237	61.649	0.00	0.00
ATOM	4728	H	ALA	X	314	33.407	43.412	61.418	0.00	0.00
ATOM	4729	CA	ALA	X	314	31.616	44.299	62.179	0.00	0.00
ATOM	4730	HA	ALA	X	314	31.047	44.010	63.063	0.00	0.00
ATOM	4731	CB	ALA	X	314	32.564	45.435	62.504	0.00	0.00
ATOM	4732	HB1	ALA	X	314	32.097	46.296	62.982	0.00	0.00
ATOM	4733	HB2	ALA	X	314	33.076	45.730	61.589	0.00	0.00
ATOM	4734	HB3	ALA	X	314	33.301	44.994	63.176	0.00	0.00
ATOM	4735	C	ALA	X	314	30.549	44.766	61.247	0.00	0.00
ATOM	4736	O	ALA	X	314	29.772	45.771	61.463	0.00	0.00
ATOM	4737	N	GLY	X	315	30.358	44.023	60.142	0.00	0.00
ATOM	4738	H	GLY	X	315	31.011	43.283	59.928	0.00	0.00
ATOM	4739	CA	GLY	X	315	29.244	44.262	59.218	0.00	0.00
ATOM	4740	HA2	GLY	X	315	28.649	45.158	59.394	0.00	0.00
ATOM	4741	HA3	GLY	X	315	29.720	44.466	58.259	0.00	0.00
ATOM	4742	C	GLY	X	315	28.294	43.089	58.990	0.00	0.00
ATOM	4743	O	GLY	X	315	28.506	42.051	59.645	0.00	0.00
ATOM	4744	N	ASP	X	316	27.254	43.331	58.155	0.00	0.00
ATOM	4745	H	ASP	X	316	27.266	44.198	57.637	0.00	0.00
ATOM	4746	CA	ASP	X	316	26.183	42.394	57.811	0.00	0.00
ATOM	4747	HA	ASP	X	316	26.403	41.446	58.301	0.00	0.00
ATOM	4748	CB	ASP	X	316	24.891	43.035	58.456	0.00	0.00
ATOM	4749	HB2	ASP	X	316	24.945	43.046	59.545	0.00	0.00
ATOM	4750	HB3	ASP	X	316	24.759	44.066	58.128	0.00	0.00
ATOM	4751	CG	ASP	X	316	23.651	42.305	58.075	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.711	42.914	57.563	0.00	0.00
ATOM	4753	OD2	ASP	X	316	23.651	41.101	58.405	0.00	0.00
ATOM	4754	C	ASP	X	316	26.009	42.099	56.347	0.00	0.00
ATOM	4755	O	ASP	X	316	26.002	43.145	55.716	0.00	0.00
ATOM	4756	N	PHE	X	317	25.825	40.840	55.908	0.00	0.00
ATOM	4757	H	PHE	X	317	25.898	40.155	56.646	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.688	40.515	54.473	0.00	0.00
ATOM	4759	HA	PHE	X	317	25.405	41.368	53.856	0.00	0.00
ATOM	4760	CB	PHE	X	317	27.116	39.999	54.042	0.00	0.00
ATOM	4761	HB2	PHE	X	317	27.206	38.996	54.461	0.00	0.00
ATOM	4762	HB3	PHE	X	317	27.097	39.946	52.954	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.248	40.908	54.331	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.551	41.935	53.401	0.00	0.00
ATOM	4765	HD1	PHE	X	317	27.993	42.043	52.483	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.655	42.738	53.693	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.994	43.519	53.028	0.00	0.00
ATOM	4768	CZ	PHE	X	317	30.291	42.677	54.940	0.00	0.00
ATOM	4769	HZ	PHE	X	317	31.009	43.447	55.183	0.00	0.00
ATOM	4770	CE2	PHE	X	317	29.990	41.631	55.836	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.420	41.626	56.827	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.914	40.769	55.546	0.00	0.00
ATOM	4773	HD2	PHE	X	317	28.590	40.077	56.310	0.00	0.00
ATOM	4774	C	PHE	X	317	24.573	39.450	54.134	0.00	0.00
ATOM	4775	O	PHE	X	317	24.728	38.691	53.182	0.00	0.00
ATOM	4776	N	HIE	X	318	23.536	39.319	54.947	0.00	0.00
ATOM	4777	H	HIE	X	318	23.660	39.771	55.842	0.00	0.00
ATOM	4778	CA	HIE	X	318	22.399	38.336	54.809	0.00	0.00
ATOM	4779	HA	HIE	X	318	22.839	37.385	55.109	0.00	0.00
ATOM	4780	CB	HIE	X	318	21.342	38.614	55.870	0.00	0.00
ATOM	4781	HB2	HIE	X	318	21.778	38.979	56.800	0.00	0.00
ATOM	4782	HB3	HIE	X	318	20.708	39.444	55.557	0.00	0.00
ATOM	4783	CG	HIE	X	318	20.444	37.417	56.165	0.00	0.00
ATOM	4784	ND1	HIE	X	318	20.836	36.126	56.458	0.00	0.00
ATOM	4785	CE1	HIE	X	318	19.677	35.499	56.825	0.00	0.00
ATOM	4786	HE1	HIE	X	318	19.638	34.443	57.045	0.00	0.00
ATOM	4787	NE2	HIE	X	318	18.660	36.320	56.749	0.00	0.00
ATOM	4788	HE2	HIE	X	318	17.707	35.996	56.833	0.00	0.00

ATOM	4789	CD2	HIE	X	318	19.084	37.516	56.262	0.00	0.00
ATOM	4790	HD2	HIE	X	318	18.491	38.365	55.956	0.00	0.00
ATOM	4791	C	HIE	X	318	21.755	38.224	53.428	0.00	0.00
ATOM	4792	O	HIE	X	318	21.421	39.296	52.838	0.00	0.00
ATOM	4793	N	GLY	X	319	21.401	37.008	52.978	0.00	0.00
ATOM	4794	H	GLY	X	319	21.669	36.286	53.631	0.00	0.00
ATOM	4795	CA	GLY	X	319	20.602	36.645	51.808	0.00	0.00
ATOM	4796	HA2	GLY	X	319	20.321	35.593	51.843	0.00	0.00
ATOM	4797	HA3	GLY	X	319	19.706	37.265	51.822	0.00	0.00
ATOM	4798	C	GLY	X	319	21.249	36.987	50.423	0.00	0.00
ATOM	4799	O	GLY	X	319	20.480	37.094	49.493	0.00	0.00
ATOM	4800	N	LEU	X	320	22.554	37.236	50.401	0.00	0.00
ATOM	4801	H	LEU	X	320	23.114	37.193	51.240	0.00	0.00
ATOM	4802	CA	LEU	X	320	23.286	37.531	49.153	0.00	0.00
ATOM	4803	HA	LEU	X	320	22.704	37.989	48.353	0.00	0.00
ATOM	4804	CB	LEU	X	320	24.414	38.501	49.533	0.00	0.00
ATOM	4805	HB2	LEU	X	320	25.026	37.923	50.225	0.00	0.00
ATOM	4806	HB3	LEU	X	320	25.090	38.729	48.708	0.00	0.00
ATOM	4807	CG	LEU	X	320	24.020	39.810	50.200	0.00	0.00
ATOM	4808	HG	LEU	X	320	23.653	39.662	51.216	0.00	0.00
ATOM	4809	CD1	LEU	X	320	25.353	40.588	50.421	0.00	0.00
ATOM	4810	HD11	LEU	X	320	25.673	40.957	49.446	0.00	0.00
ATOM	4811	HD12	LEU	X	320	26.029	39.855	50.860	0.00	0.00
ATOM	4812	HD13	LEU	X	320	25.049	41.339	51.151	0.00	0.00
ATOM	4813	CD2	LEU	X	320	23.193	40.822	49.410	0.00	0.00
ATOM	4814	HD21	LEU	X	320	23.509	40.790	48.367	0.00	0.00
ATOM	4815	HD22	LEU	X	320	22.143	40.541	49.493	0.00	0.00
ATOM	4816	HD23	LEU	X	320	23.158	41.828	49.829	0.00	0.00
ATOM	4817	C	LEU	X	320	23.889	36.298	48.432	0.00	0.00
ATOM	4818	O	LEU	X	320	23.874	35.277	49.078	0.00	0.00
ATOM	4819	N	GLN	X	321	24.271	36.385	47.132	0.00	0.00
ATOM	4820	H	GLN	X	321	24.139	37.266	46.656	0.00	0.00
ATOM	4821	CA	GLN	X	321	24.972	35.391	46.440	0.00	0.00
ATOM	4822	HA	GLN	X	321	25.098	34.536	47.104	0.00	0.00
ATOM	4823	CB	GLN	X	321	24.210	34.733	45.261	0.00	0.00
ATOM	4824	HB2	GLN	X	321	24.137	35.528	44.518	0.00	0.00
ATOM	4825	HB3	GLN	X	321	24.772	33.834	45.009	0.00	0.00
ATOM	4826	CG	GLN	X	321	22.799	34.211	45.571	0.00	0.00
ATOM	4827	HG2	GLN	X	321	22.627	33.448	44.811	0.00	0.00
ATOM	4828	HG3	GLN	X	321	22.758	33.781	46.572	0.00	0.00
ATOM	4829	CD	GLN	X	321	21.642	35.266	45.653	0.00	0.00
ATOM	4830	OE1	GLN	X	321	21.552	36.164	44.860	0.00	0.00
ATOM	4831	NE2	GLN	X	321	20.679	35.089	46.602	0.00	0.00
ATOM	4832	HE21	GLN	X	321	19.829	35.632	46.548	0.00	0.00
ATOM	4833	HE22	GLN	X	321	20.840	34.381	47.303	0.00	0.00
ATOM	4834	C	GLN	X	321	26.389	35.876	45.989	0.00	0.00
ATOM	4835	O	GLN	X	321	26.445	36.939	45.336	0.00	0.00
ATOM	4836	N	VAL	X	322	27.432	35.128	46.299	0.00	0.00
ATOM	4837	H	VAL	X	322	27.328	34.444	47.034	0.00	0.00
ATOM	4838	CA	VAL	X	322	28.811	35.642	46.024	0.00	0.00
ATOM	4839	HA	VAL	X	322	28.793	36.489	45.337	0.00	0.00
ATOM	4840	CB	VAL	X	322	29.408	36.212	47.342	0.00	0.00
ATOM	4841	HB	VAL	X	322	29.804	35.397	47.948	0.00	0.00
ATOM	4842	CG1	VAL	X	322	30.629	37.113	47.117	0.00	0.00
ATOM	4843	HG11	VAL	X	322	30.425	38.180	47.028	0.00	0.00
ATOM	4844	HG12	VAL	X	322	31.169	36.932	48.047	0.00	0.00
ATOM	4845	HG13	VAL	X	322	31.159	36.759	46.233	0.00	0.00
ATOM	4846	CG2	VAL	X	322	28.434	36.917	48.308	0.00	0.00
ATOM	4847	HG21	VAL	X	322	28.932	37.367	49.167	0.00	0.00
ATOM	4848	HG22	VAL	X	322	27.623	36.255	48.613	0.00	0.00
ATOM	4849	HG23	VAL	X	322	27.968	37.773	47.821	0.00	0.00
ATOM	4850	C	VAL	X	322	29.712	34.485	45.466	0.00	0.00
ATOM	4851	O	VAL	X	322	29.614	33.405	46.055	0.00	0.00
ATOM	4852	N	LEU	X	323	30.556	34.598	44.434	0.00	0.00
ATOM	4853	H	LEU	X	323	30.565	35.525	44.032	0.00	0.00
ATOM	4854	CA	LEU	X	323	31.555	33.622	44.011	0.00	0.00
ATOM	4855	HA	LEU	X	323	31.401	32.771	44.675	0.00	0.00

ATOM	4856	CB	LEU	X	323	31.262	33.205	42.546	0.00	0.00
ATOM	4857	HB2	LEU	X	323	30.186	33.038	42.507	0.00	0.00
ATOM	4858	HB3	LEU	X	323	31.522	33.973	41.817	0.00	0.00
ATOM	4859	CG	LEU	X	323	31.763	31.825	42.089	0.00	0.00
ATOM	4860	HG	LEU	X	323	31.640	31.080	42.875	0.00	0.00
ATOM	4861	CD1	LEU	X	323	30.949	31.385	40.843	0.00	0.00
ATOM	4862	HD11	LEU	X	323	31.159	30.354	40.559	0.00	0.00
ATOM	4863	HD12	LEU	X	323	31.171	31.928	39.924	0.00	0.00
ATOM	4864	HD13	LEU	X	323	29.911	31.324	41.170	0.00	0.00
ATOM	4865	CD2	LEU	X	323	33.178	31.919	41.568	0.00	0.00
ATOM	4866	HD21	LEU	X	323	33.759	32.246	42.430	0.00	0.00
ATOM	4867	HD22	LEU	X	323	33.802	31.106	41.196	0.00	0.00
ATOM	4868	HD23	LEU	X	323	33.181	32.693	40.800	0.00	0.00
ATOM	4869	C	LEU	X	323	32.980	34.102	44.331	0.00	0.00
ATOM	4870	O	LEU	X	323	33.122	35.339	44.366	0.00	0.00
ATOM	4871	N	VAL	X	324	33.823	33.203	44.827	0.00	0.00
ATOM	4872	H	VAL	X	324	33.605	32.224	44.711	0.00	0.00
ATOM	4873	CA	VAL	X	324	35.214	33.567	45.158	0.00	0.00
ATOM	4874	HA	VAL	X	324	35.598	34.480	44.704	0.00	0.00
ATOM	4875	CB	VAL	X	324	35.555	33.744	46.679	0.00	0.00
ATOM	4876	HB	VAL	X	324	36.588	34.071	46.799	0.00	0.00
ATOM	4877	CG1	VAL	X	324	34.723	34.846	47.290	0.00	0.00
ATOM	4878	HG11	VAL	X	324	33.653	34.639	47.315	0.00	0.00
ATOM	4879	HG12	VAL	X	324	34.929	34.853	48.360	0.00	0.00
ATOM	4880	HG13	VAL	X	324	34.960	35.825	46.873	0.00	0.00
ATOM	4881	CG2	VAL	X	324	35.343	32.490	47.560	0.00	0.00
ATOM	4882	HG21	VAL	X	324	36.056	31.684	47.384	0.00	0.00
ATOM	4883	HG22	VAL	X	324	34.340	32.114	47.359	0.00	0.00
ATOM	4884	HG23	VAL	X	324	35.497	32.747	48.608	0.00	0.00
ATOM	4885	C	VAL	X	324	36.135	32.395	44.698	0.00	0.00
ATOM	4886	O	VAL	X	324	35.637	31.319	44.388	0.00	0.00
ATOM	4887	N	GLY	X	325	37.409	32.633	44.713	0.00	0.00
ATOM	4888	H	GLY	X	325	37.768	33.550	44.939	0.00	0.00
ATOM	4889	CA	GLY	X	325	38.485	31.621	44.705	0.00	0.00
ATOM	4890	HA2	GLY	X	325	38.545	31.117	45.670	0.00	0.00
ATOM	4891	HA3	GLY	X	325	38.187	30.884	43.961	0.00	0.00
ATOM	4892	C	GLY	X	325	39.874	32.143	44.269	0.00	0.00
ATOM	4893	O	GLY	X	325	40.167	33.338	44.326	0.00	0.00
ATOM	4894	N	VAL	X	326	40.746	31.156	44.041	0.00	0.00
ATOM	4895	H	VAL	X	326	40.426	30.200	43.971	0.00	0.00
ATOM	4896	CA	VAL	X	326	42.168	31.438	43.922	0.00	0.00
ATOM	4897	HA	VAL	X	326	42.510	32.433	43.636	0.00	0.00
ATOM	4898	CB	VAL	X	326	42.857	31.214	45.384	0.00	0.00
ATOM	4899	HB	VAL	X	326	43.911	31.327	45.128	0.00	0.00
ATOM	4900	CG1	VAL	X	326	42.584	32.328	46.443	0.00	0.00
ATOM	4901	HG11	VAL	X	326	43.376	32.233	47.185	0.00	0.00
ATOM	4902	HG12	VAL	X	326	42.522	33.303	45.958	0.00	0.00
ATOM	4903	HG13	VAL	X	326	41.619	32.168	46.923	0.00	0.00
ATOM	4904	CG2	VAL	X	326	42.683	29.780	45.985	0.00	0.00
ATOM	4905	HG21	VAL	X	326	43.409	29.124	45.504	0.00	0.00
ATOM	4906	HG22	VAL	X	326	41.623	29.534	46.043	0.00	0.00
ATOM	4907	HG23	VAL	X	326	42.853	29.922	47.052	0.00	0.00
ATOM	4908	C	VAL	X	326	42.890	30.430	42.974	0.00	0.00
ATOM	4909	O	VAL	X	326	42.202	29.406	42.657	0.00	0.00
ATOM	4910	N	VAL	X	327	44.172	30.654	42.545	0.00	0.00
ATOM	4911	H	VAL	X	327	44.779	31.383	42.893	0.00	0.00
ATOM	4912	CA	VAL	X	327	44.900	29.644	41.757	0.00	0.00
ATOM	4913	HA	VAL	X	327	44.143	29.040	41.257	0.00	0.00
ATOM	4914	CB	VAL	X	327	45.819	30.253	40.717	0.00	0.00
ATOM	4915	HB	VAL	X	327	46.078	29.487	39.985	0.00	0.00
ATOM	4916	CG1	VAL	X	327	45.148	31.148	39.729	0.00	0.00
ATOM	4917	HG11	VAL	X	327	44.734	32.053	40.172	0.00	0.00
ATOM	4918	HG12	VAL	X	327	45.813	31.449	38.919	0.00	0.00
ATOM	4919	HG13	VAL	X	327	44.307	30.589	39.320	0.00	0.00
ATOM	4920	CG2	VAL	X	327	47.122	30.984	41.264	0.00	0.00
ATOM	4921	HG21	VAL	X	327	47.041	31.993	41.668	0.00	0.00
ATOM	4922	HG22	VAL	X	327	47.846	31.169	40.471	0.00	0.00

ATOM	4923	HG23	VAL	X	327	47.548	30.379	42.065	0.00	0.00
ATOM	4924	C	VAL	X	327	45.776	28.789	42.663	0.00	0.00
ATOM	4925	O	VAL	X	327	46.088	29.231	43.773	0.00	0.00
ATOM	4926	N	LYS	X	328	46.068	27.576	42.257	0.00	0.00
ATOM	4927	H	LYS	X	328	45.911	27.144	41.358	0.00	0.00
ATOM	4928	CA	LYS	X	328	47.002	26.672	42.965	0.00	0.00
ATOM	4929	HA	LYS	X	328	46.445	26.471	43.880	0.00	0.00
ATOM	4930	CB	LYS	X	328	47.271	25.473	42.075	0.00	0.00
ATOM	4931	HB2	LYS	X	328	46.370	25.094	41.592	0.00	0.00
ATOM	4932	HB3	LYS	X	328	47.761	25.739	41.138	0.00	0.00
ATOM	4933	CG	LYS	X	328	48.017	24.224	42.697	0.00	0.00
ATOM	4934	HG2	LYS	X	328	49.019	24.610	42.881	0.00	0.00
ATOM	4935	HG3	LYS	X	328	47.456	24.017	43.608	0.00	0.00
ATOM	4936	CD	LYS	X	328	48.082	22.968	41.807	0.00	0.00
ATOM	4937	HD2	LYS	X	328	48.584	22.223	42.423	0.00	0.00
ATOM	4938	HD3	LYS	X	328	47.054	22.662	41.610	0.00	0.00
ATOM	4939	CE	LYS	X	328	48.844	23.072	40.392	0.00	0.00
ATOM	4940	HE2	LYS	X	328	48.565	22.246	39.739	0.00	0.00
ATOM	4941	HE3	LYS	X	328	48.777	24.046	39.907	0.00	0.00
ATOM	4942	NZ	LYS	X	328	50.360	22.978	40.644	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	50.782	22.779	39.749	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	50.641	23.800	41.160	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	50.662	22.142	41.125	0.00	0.00
ATOM	4946	C	LYS	X	328	48.335	27.320	43.464	0.00	0.00
ATOM	4947	O	LYS	X	328	48.720	26.903	44.589	0.00	0.00
ATOM	4948	N	ASP	X	329	49.048	28.091	42.727	0.00	0.00
ATOM	4949	H	ASP	X	329	48.758	28.286	41.780	0.00	0.00
ATOM	4950	CA	ASP	X	329	50.360	28.576	43.052	0.00	0.00
ATOM	4951	HA	ASP	X	329	50.695	28.202	44.020	0.00	0.00
ATOM	4952	CB	ASP	X	329	51.349	27.812	42.116	0.00	0.00
ATOM	4953	HB2	ASP	X	329	51.357	28.207	41.101	0.00	0.00
ATOM	4954	HB3	ASP	X	329	52.324	27.834	42.605	0.00	0.00
ATOM	4955	CG	ASP	X	329	51.139	26.300	41.961	0.00	0.00
ATOM	4956	OD1	ASP	X	329	51.531	25.492	42.813	0.00	0.00
ATOM	4957	OD2	ASP	X	329	50.501	25.855	40.977	0.00	0.00
ATOM	4958	C	ASP	X	329	50.541	30.147	42.970	0.00	0.00
ATOM	4959	O	ASP	X	329	51.507	30.642	42.347	0.00	0.00
ATOM	4960	N	GLU	X	330	49.593	30.810	43.588	0.00	0.00
ATOM	4961	H	GLU	X	330	48.928	30.207	44.050	0.00	0.00
ATOM	4962	CA	GLU	X	330	49.545	32.259	43.694	0.00	0.00
ATOM	4963	HA	GLU	X	330	49.072	32.522	42.748	0.00	0.00
ATOM	4964	CB	GLU	X	330	48.813	32.668	45.003	0.00	0.00
ATOM	4965	HB2	GLU	X	330	49.126	32.180	45.926	0.00	0.00
ATOM	4966	HB3	GLU	X	330	48.966	33.746	45.057	0.00	0.00
ATOM	4967	CG	GLU	X	330	47.345	32.451	44.936	0.00	0.00
ATOM	4968	HG2	GLU	X	330	47.032	31.469	44.582	0.00	0.00
ATOM	4969	HG3	GLU	X	330	46.924	32.480	45.941	0.00	0.00
ATOM	4970	CD	GLU	X	330	46.532	33.418	44.035	0.00	0.00
ATOM	4971	OE1	GLU	X	330	46.968	34.601	43.980	0.00	0.00
ATOM	4972	OE2	GLU	X	330	45.492	32.963	43.434	0.00	0.00
ATOM	4973	C	GLU	X	330	50.816	33.089	43.670	0.00	0.00
ATOM	4974	O	GLU	X	330	51.037	33.926	42.737	0.00	0.00
ATOM	4975	N	GLY	X	331	51.740	32.833	44.623	0.00	0.00
ATOM	4976	H	GLY	X	331	51.634	32.098	45.307	0.00	0.00
ATOM	4977	CA	GLY	X	331	52.859	33.667	44.899	0.00	0.00
ATOM	4978	HA2	GLY	X	331	52.544	34.707	44.817	0.00	0.00
ATOM	4979	HA3	GLY	X	331	53.272	33.529	45.898	0.00	0.00
ATOM	4980	C	GLY	X	331	53.996	33.569	43.896	0.00	0.00
ATOM	4981	O	GLY	X	331	54.972	34.367	43.875	0.00	0.00
ATOM	4982	N	SER	X	332	53.990	32.621	43.000	0.00	0.00
ATOM	4983	H	SER	X	332	53.310	31.877	43.067	0.00	0.00
ATOM	4984	CA	SER	X	332	54.935	32.466	41.897	0.00	0.00
ATOM	4985	HA	SER	X	332	55.927	32.223	42.278	0.00	0.00
ATOM	4986	CB	SER	X	332	54.538	31.314	40.977	0.00	0.00
ATOM	4987	HB2	SER	X	332	53.571	31.524	40.518	0.00	0.00
ATOM	4988	HB3	SER	X	332	55.238	31.338	40.142	0.00	0.00
ATOM	4989	OG	SER	X	332	54.376	30.101	41.726	0.00	0.00

ATOM	4990	HG	SER	X	332	53.894	29.459	41.200	0.00	0.00
ATOM	4991	C	SER	X	332	54.933	33.741	41.032	0.00	0.00
ATOM	4992	O	SER	X	332	56.000	34.142	40.566	0.00	0.00
ATOM	4993	N	TYR	X	333	53.796	34.432	40.852	0.00	0.00
ATOM	4994	H	TYR	X	333	52.939	34.111	41.279	0.00	0.00
ATOM	4995	CA	TYR	X	333	53.801	35.647	40.018	0.00	0.00
ATOM	4996	HA	TYR	X	333	54.251	35.506	39.035	0.00	0.00
ATOM	4997	CB	TYR	X	333	52.333	36.059	39.819	0.00	0.00
ATOM	4998	HB2	TYR	X	333	51.751	35.241	39.393	0.00	0.00
ATOM	4999	HB3	TYR	X	333	52.039	36.324	40.835	0.00	0.00
ATOM	5000	CG	TYR	X	333	52.092	37.251	38.902	0.00	0.00
ATOM	5001	CD1	TYR	X	333	52.016	37.159	37.515	0.00	0.00
ATOM	5002	HD1	TYR	X	333	52.132	36.226	36.985	0.00	0.00
ATOM	5003	CE1	TYR	X	333	51.812	38.331	36.718	0.00	0.00
ATOM	5004	HE1	TYR	X	333	51.931	38.257	35.647	0.00	0.00
ATOM	5005	CZ	TYR	X	333	51.750	39.598	37.350	0.00	0.00
ATOM	5006	OH	TYR	X	333	51.562	40.742	36.701	0.00	0.00
ATOM	5007	HH	TYR	X	333	51.890	40.655	35.803	0.00	0.00
ATOM	5008	CE2	TYR	X	333	51.648	39.573	38.729	0.00	0.00
ATOM	5009	HE2	TYR	X	333	51.458	40.544	39.161	0.00	0.00
ATOM	5010	CD2	TYR	X	333	51.717	38.473	39.529	0.00	0.00
ATOM	5011	HD2	TYR	X	333	51.691	38.511	40.608	0.00	0.00
ATOM	5012	C	TYR	X	333	54.696	36.880	40.516	0.00	0.00
ATOM	5013	O	TYR	X	333	55.110	37.601	39.680	0.00	0.00
ATOM	5014	N	PHE	X	334	55.015	37.052	41.787	0.00	0.00
ATOM	5015	H	PHE	X	334	54.702	36.317	42.406	0.00	0.00
ATOM	5016	CA	PHE	X	334	55.860	38.181	42.257	0.00	0.00
ATOM	5017	HA	PHE	X	334	56.010	38.906	41.456	0.00	0.00
ATOM	5018	CB	PHE	X	334	55.167	38.939	43.343	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.096	38.416	44.297	0.00	0.00
ATOM	5020	HB3	PHE	X	334	55.751	39.800	43.668	0.00	0.00
ATOM	5021	CG	PHE	X	334	53.844	39.525	42.984	0.00	0.00
ATOM	5022	CD1	PHE	X	334	52.602	38.884	43.266	0.00	0.00
ATOM	5023	HD1	PHE	X	334	52.596	37.875	43.650	0.00	0.00
ATOM	5024	CE1	PHE	X	334	51.378	39.534	43.028	0.00	0.00
ATOM	5025	HE1	PHE	X	334	50.489	38.923	42.994	0.00	0.00
ATOM	5026	CZ	PHE	X	334	51.316	40.840	42.496	0.00	0.00
ATOM	5027	HZ	PHE	X	334	50.379	41.373	42.421	0.00	0.00
ATOM	5028	CE2	PHE	X	334	52.562	41.415	42.122	0.00	0.00
ATOM	5029	HE2	PHE	X	334	52.526	42.433	41.763	0.00	0.00
ATOM	5030	CD2	PHE	X	334	53.814	40.782	42.329	0.00	0.00
ATOM	5031	HD2	PHE	X	334	54.670	41.333	41.968	0.00	0.00
ATOM	5032	C	PHE	X	334	57.274	37.755	42.630	0.00	0.00
ATOM	5033	O	PHE	X	334	58.118	38.587	43.016	0.00	0.00
ATOM	5034	N	LEU	X	335	57.748	36.529	42.290	0.00	0.00
ATOM	5035	H	LEU	X	335	57.063	35.804	42.128	0.00	0.00
ATOM	5036	CA	LEU	X	335	59.132	36.077	42.605	0.00	0.00
ATOM	5037	HA	LEU	X	335	59.312	36.358	43.643	0.00	0.00
ATOM	5038	CB	LEU	X	335	59.172	34.594	42.501	0.00	0.00
ATOM	5039	HB2	LEU	X	335	58.869	34.336	41.486	0.00	0.00
ATOM	5040	HB3	LEU	X	335	60.186	34.195	42.501	0.00	0.00
ATOM	5041	CG	LEU	X	335	58.235	33.704	43.369	0.00	0.00
ATOM	5042	HG	LEU	X	335	57.248	33.950	42.977	0.00	0.00
ATOM	5043	CD1	LEU	X	335	58.507	32.194	43.400	0.00	0.00
ATOM	5044	HD11	LEU	X	335	58.669	31.777	42.406	0.00	0.00
ATOM	5045	HD12	LEU	X	335	57.687	31.729	43.947	0.00	0.00
ATOM	5046	HD13	LEU	X	335	59.454	31.926	43.869	0.00	0.00
ATOM	5047	CD2	LEU	X	335	58.276	34.314	44.822	0.00	0.00
ATOM	5048	HD21	LEU	X	335	57.793	35.290	44.787	0.00	0.00
ATOM	5049	HD22	LEU	X	335	57.661	33.744	45.520	0.00	0.00
ATOM	5050	HD23	LEU	X	335	59.279	34.514	45.197	0.00	0.00
ATOM	5051	C	LEU	X	335	60.264	36.732	41.760	0.00	0.00
ATOM	5052	O	LEU	X	335	61.234	37.146	42.437	0.00	0.00
ATOM	5053	N	VAL	X	336	60.047	36.915	40.467	0.00	0.00
ATOM	5054	H	VAL	X	336	59.173	36.539	40.130	0.00	0.00
ATOM	5055	CA	VAL	X	336	61.016	37.606	39.596	0.00	0.00
ATOM	5056	HA	VAL	X	336	61.954	37.095	39.812	0.00	0.00

ATOM	5057	CB	VAL	X	336	60.712	37.288	38.066	0.00	0.00
ATOM	5058	HB	VAL	X	336	61.596	37.553	37.486	0.00	0.00
ATOM	5059	CG1	VAL	X	336	60.478	35.771	37.815	0.00	0.00
ATOM	5060	HG11	VAL	X	336	59.831	35.367	38.593	0.00	0.00
ATOM	5061	HG12	VAL	X	336	60.088	35.530	36.826	0.00	0.00
ATOM	5062	HG13	VAL	X	336	61.448	35.277	37.867	0.00	0.00
ATOM	5063	CG2	VAL	X	336	59.542	38.095	37.426	0.00	0.00
ATOM	5064	HG21	VAL	X	336	58.598	37.810	37.890	0.00	0.00
ATOM	5065	HG22	VAL	X	336	59.526	37.822	36.371	0.00	0.00
ATOM	5066	HG23	VAL	X	336	59.830	39.143	37.507	0.00	0.00
ATOM	5067	C	VAL	X	336	61.216	39.061	39.820	0.00	0.00
ATOM	5068	O	VAL	X	336	62.309	39.609	39.666	0.00	0.00
ATOM	5069	N	TYR	X	337	60.126	39.685	40.220	0.00	0.00
ATOM	5070	H	TYR	X	337	59.284	39.137	40.324	0.00	0.00
ATOM	5071	CA	TYR	X	337	60.165	41.135	40.675	0.00	0.00
ATOM	5072	HA	TYR	X	337	60.859	41.628	39.995	0.00	0.00
ATOM	5073	CB	TYR	X	337	58.754	41.697	40.373	0.00	0.00
ATOM	5074	HB2	TYR	X	337	58.007	41.274	41.045	0.00	0.00
ATOM	5075	HB3	TYR	X	337	58.880	42.743	40.651	0.00	0.00
ATOM	5076	CG	TYR	X	337	58.236	41.636	38.993	0.00	0.00
ATOM	5077	CD1	TYR	X	337	58.632	42.521	38.004	0.00	0.00
ATOM	5078	HD1	TYR	X	337	59.400	43.265	38.151	0.00	0.00
ATOM	5079	CE1	TYR	X	337	58.138	42.430	36.684	0.00	0.00
ATOM	5080	HE1	TYR	X	337	58.495	43.058	35.882	0.00	0.00
ATOM	5081	CZ	TYR	X	337	57.228	41.375	36.377	0.00	0.00
ATOM	5082	OH	TYR	X	337	56.718	41.252	35.148	0.00	0.00
ATOM	5083	HH	TYR	X	337	57.120	41.863	34.526	0.00	0.00
ATOM	5084	CE2	TYR	X	337	56.801	40.481	37.349	0.00	0.00
ATOM	5085	HE2	TYR	X	337	55.987	39.791	37.181	0.00	0.00
ATOM	5086	CD2	TYR	X	337	57.302	40.668	38.666	0.00	0.00
ATOM	5087	HD2	TYR	X	337	56.848	40.073	39.445	0.00	0.00
ATOM	5088	C	TYR	X	337	60.531	41.344	42.148	0.00	0.00
ATOM	5089	O	TYR	X	337	61.018	42.418	42.464	0.00	0.00
ATOM	5090	N	GLY	X	338	60.253	40.321	42.957	0.00	0.00
ATOM	5091	H	GLY	X	338	59.991	39.444	42.528	0.00	0.00
ATOM	5092	CA	GLY	X	338	60.284	40.552	44.423	0.00	0.00
ATOM	5093	HA2	GLY	X	338	60.390	41.625	44.586	0.00	0.00
ATOM	5094	HA3	GLY	X	338	59.318	40.177	44.759	0.00	0.00
ATOM	5095	C	GLY	X	338	61.440	39.907	45.259	0.00	0.00
ATOM	5096	O	GLY	X	338	61.726	40.332	46.303	0.00	0.00
ATOM	5097	N	ALA	X	339	62.070	38.924	44.643	0.00	0.00
ATOM	5098	H	ALA	X	339	61.771	38.766	43.691	0.00	0.00
ATOM	5099	CA	ALA	X	339	62.933	37.949	45.317	0.00	0.00
ATOM	5100	HA	ALA	X	339	63.135	38.285	46.334	0.00	0.00
ATOM	5101	CB	ALA	X	339	62.325	36.593	45.386	0.00	0.00
ATOM	5102	HB1	ALA	X	339	61.271	36.821	45.543	0.00	0.00
ATOM	5103	HB2	ALA	X	339	62.732	35.920	46.141	0.00	0.00
ATOM	5104	HB3	ALA	X	339	62.539	36.120	44.428	0.00	0.00
ATOM	5105	C	ALA	X	339	64.377	37.821	44.629	0.00	0.00
ATOM	5106	O	ALA	X	339	64.466	37.707	43.397	0.00	0.00
ATOM	5107	N	PRO	X	340	65.422	37.852	45.485	0.00	0.00
ATOM	5108	CD	PRO	X	340	65.416	37.841	46.949	0.00	0.00
ATOM	5109	HD2	PRO	X	340	64.949	36.953	47.377	0.00	0.00
ATOM	5110	HD3	PRO	X	340	64.920	38.740	47.314	0.00	0.00
ATOM	5111	CG	PRO	X	340	66.870	37.864	47.370	0.00	0.00
ATOM	5112	HG2	PRO	X	340	67.210	36.864	47.640	0.00	0.00
ATOM	5113	HG3	PRO	X	340	66.957	38.590	48.178	0.00	0.00
ATOM	5114	CB	PRO	X	340	67.691	38.318	46.156	0.00	0.00
ATOM	5115	HB2	PRO	X	340	68.702	37.921	46.243	0.00	0.00
ATOM	5116	HB3	PRO	X	340	67.645	39.401	46.278	0.00	0.00
ATOM	5117	CA	PRO	X	340	66.768	37.909	44.978	0.00	0.00
ATOM	5118	HA	PRO	X	340	66.783	38.727	44.258	0.00	0.00
ATOM	5119	C	PRO	X	340	67.245	36.649	44.261	0.00	0.00
ATOM	5120	O	PRO	X	340	67.209	35.600	44.925	0.00	0.00
ATOM	5121	N	GLY	X	341	67.832	36.678	43.035	0.00	0.00
ATOM	5122	H	GLY	X	341	67.888	37.503	42.454	0.00	0.00
ATOM	5123	CA	GLY	X	341	68.278	35.489	42.308	0.00	0.00

ATOM	5124	HA2	GLY	X	341	69.165	35.641	41.692	0.00	0.00
ATOM	5125	HA3	GLY	X	341	68.644	34.764	43.035	0.00	0.00
ATOM	5126	C	GLY	X	341	67.196	34.844	41.413	0.00	0.00
ATOM	5127	O	GLY	X	341	67.500	33.793	40.849	0.00	0.00
ATOM	5128	N	PHE	X	342	66.038	35.447	41.275	0.00	0.00
ATOM	5129	H	PHE	X	342	65.847	36.283	41.810	0.00	0.00
ATOM	5130	CA	PHE	X	342	64.939	35.047	40.382	0.00	0.00
ATOM	5131	HA	PHE	X	342	65.107	33.997	40.144	0.00	0.00
ATOM	5132	CB	PHE	X	342	63.594	35.187	41.107	0.00	0.00
ATOM	5133	HB2	PHE	X	342	63.556	36.180	41.556	0.00	0.00
ATOM	5134	HB3	PHE	X	342	62.835	35.149	40.326	0.00	0.00
ATOM	5135	CG	PHE	X	342	63.338	34.129	42.162	0.00	0.00
ATOM	5136	CD1	PHE	X	342	62.383	33.102	41.905	0.00	0.00
ATOM	5137	HD1	PHE	X	342	61.855	33.057	40.964	0.00	0.00
ATOM	5138	CE1	PHE	X	342	62.180	32.076	42.847	0.00	0.00
ATOM	5139	HE1	PHE	X	342	61.616	31.205	42.550	0.00	0.00
ATOM	5140	CZ	PHE	X	342	62.832	32.056	44.068	0.00	0.00
ATOM	5141	HZ	PHE	X	342	62.780	31.154	44.660	0.00	0.00
ATOM	5142	CE2	PHE	X	342	63.626	33.179	44.466	0.00	0.00
ATOM	5143	HE2	PHE	X	342	64.211	33.154	45.374	0.00	0.00
ATOM	5144	CD2	PHE	X	342	63.818	34.210	43.486	0.00	0.00
ATOM	5145	HD2	PHE	X	342	64.468	35.025	43.771	0.00	0.00
ATOM	5146	C	PHE	X	342	64.926	35.851	39.051	0.00	0.00
ATOM	5147	O	PHE	X	342	65.445	36.907	38.943	0.00	0.00
ATOM	5148	N	SER	X	343	64.388	35.213	37.999	0.00	0.00
ATOM	5149	H	SER	X	343	64.123	34.239	38.045	0.00	0.00
ATOM	5150	CA	SER	X	343	64.144	35.730	36.626	0.00	0.00
ATOM	5151	HA	SER	X	343	63.793	36.758	36.712	0.00	0.00
ATOM	5152	CB	SER	X	343	65.512	35.828	35.905	0.00	0.00
ATOM	5153	HB2	SER	X	343	65.879	34.802	35.875	0.00	0.00
ATOM	5154	HB3	SER	X	343	65.281	36.287	34.944	0.00	0.00
ATOM	5155	OG	SER	X	343	66.427	36.697	36.536	0.00	0.00
ATOM	5156	HG	SER	X	343	66.508	36.474	37.466	0.00	0.00
ATOM	5157	C	SER	X	343	63.171	34.852	35.751	0.00	0.00
ATOM	5158	O	SER	X	343	62.986	33.695	36.015	0.00	0.00
ATOM	5159	N	LYS	X	344	62.543	35.480	34.753	0.00	0.00
ATOM	5160	H	LYS	X	344	62.817	36.408	34.462	0.00	0.00
ATOM	5161	CA	LYS	X	344	61.468	34.930	33.897	0.00	0.00
ATOM	5162	HA	LYS	X	344	60.766	34.703	34.699	0.00	0.00
ATOM	5163	CB	LYS	X	344	60.898	36.085	32.999	0.00	0.00
ATOM	5164	HB2	LYS	X	344	60.001	35.711	32.505	0.00	0.00
ATOM	5165	HB3	LYS	X	344	60.633	36.905	33.667	0.00	0.00
ATOM	5166	CG	LYS	X	344	61.812	36.696	31.938	0.00	0.00
ATOM	5167	HG2	LYS	X	344	61.163	37.353	31.359	0.00	0.00
ATOM	5168	HG3	LYS	X	344	62.608	37.202	32.485	0.00	0.00
ATOM	5169	CD	LYS	X	344	62.654	35.803	30.953	0.00	0.00
ATOM	5170	HD2	LYS	X	344	63.061	34.908	31.424	0.00	0.00
ATOM	5171	HD3	LYS	X	344	61.968	35.457	30.181	0.00	0.00
ATOM	5172	CE	LYS	X	344	63.859	36.550	30.314	0.00	0.00
ATOM	5173	HE2	LYS	X	344	63.442	37.463	29.889	0.00	0.00
ATOM	5174	HE3	LYS	X	344	64.552	36.804	31.116	0.00	0.00
ATOM	5175	NZ	LYS	X	344	64.516	35.688	29.337	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	65.321	36.120	28.908	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	64.788	34.772	29.664	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	63.892	35.482	28.570	0.00	0.00
ATOM	5179	C	LYS	X	344	61.683	33.559	33.133	0.00	0.00
ATOM	5180	O	LYS	X	344	60.718	32.999	32.658	0.00	0.00
ATOM	5181	N	ASP	X	345	62.878	32.930	33.270	0.00	0.00
ATOM	5182	H	ASP	X	345	63.717	33.426	33.535	0.00	0.00
ATOM	5183	CA	ASP	X	345	63.211	31.558	32.882	0.00	0.00
ATOM	5184	HA	ASP	X	345	62.301	30.995	33.089	0.00	0.00
ATOM	5185	CB	ASP	X	345	63.381	31.526	31.383	0.00	0.00
ATOM	5186	HB2	ASP	X	345	63.354	30.492	31.040	0.00	0.00
ATOM	5187	HB3	ASP	X	345	62.439	31.848	30.938	0.00	0.00
ATOM	5188	CG	ASP	X	345	64.757	32.102	30.847	0.00	0.00
ATOM	5189	OD1	ASP	X	345	64.994	33.299	30.831	0.00	0.00
ATOM	5190	OD2	ASP	X	345	65.559	31.218	30.459	0.00	0.00

ATOM	5191	C	ASP	X	345	64.418	30.890	33.612	0.00	0.00
ATOM	5192	O	ASP	X	345	64.678	29.697	33.435	0.00	0.00
ATOM	5193	N	ASN	X	346	65.223	31.563	34.421	0.00	0.00
ATOM	5194	H	ASN	X	346	64.865	32.450	34.744	0.00	0.00
ATOM	5195	CA	ASN	X	346	66.340	31.000	35.192	0.00	0.00
ATOM	5196	HA	ASN	X	346	67.095	30.548	34.549	0.00	0.00
ATOM	5197	CB	ASN	X	346	66.903	32.077	36.036	0.00	0.00
ATOM	5198	HB2	ASN	X	346	67.075	33.005	35.490	0.00	0.00
ATOM	5199	HB3	ASN	X	346	66.132	32.391	36.740	0.00	0.00
ATOM	5200	CG	ASN	X	346	68.196	31.667	36.819	0.00	0.00
ATOM	5201	OD1	ASN	X	346	68.141	31.141	37.932	0.00	0.00
ATOM	5202	ND2	ASN	X	346	69.413	31.903	36.306	0.00	0.00
ATOM	5203	HD21	ASN	X	346	70.175	31.452	36.792	0.00	0.00
ATOM	5204	HD22	ASN	X	346	69.661	32.340	35.430	0.00	0.00
ATOM	5205	C	ASN	X	346	65.807	29.906	36.200	0.00	0.00
ATOM	5206	O	ASN	X	346	64.770	30.014	36.833	0.00	0.00
ATOM	5207	N	GLU	X	347	66.519	28.827	36.447	0.00	0.00
ATOM	5208	H	GLU	X	347	67.324	28.596	35.882	0.00	0.00
ATOM	5209	CA	GLU	X	347	66.083	27.638	37.270	0.00	0.00
ATOM	5210	HA	GLU	X	347	65.144	27.389	36.777	0.00	0.00
ATOM	5211	CB	GLU	X	347	67.049	26.404	37.162	0.00	0.00
ATOM	5212	HB2	GLU	X	347	68.049	26.811	37.314	0.00	0.00
ATOM	5213	HB3	GLU	X	347	66.829	25.643	37.910	0.00	0.00
ATOM	5214	CG	GLU	X	347	66.902	25.697	35.794	0.00	0.00
ATOM	5215	HG2	GLU	X	347	66.022	25.077	35.625	0.00	0.00
ATOM	5216	HG3	GLU	X	347	66.976	26.434	34.994	0.00	0.00
ATOM	5217	CD	GLU	X	347	68.149	24.770	35.556	0.00	0.00
ATOM	5218	OE1	GLU	X	347	68.100	23.653	36.106	0.00	0.00
ATOM	5219	OE2	GLU	X	347	69.140	25.280	34.996	0.00	0.00
ATOM	5220	C	GLU	X	347	65.955	27.967	38.736	0.00	0.00
ATOM	5221	O	GLU	X	347	65.298	27.193	39.438	0.00	0.00
ATOM	5222	N	SER	X	348	66.438	29.116	39.215	0.00	0.00
ATOM	5223	H	SER	X	348	66.872	29.739	38.549	0.00	0.00
ATOM	5224	CA	SER	X	348	66.038	29.690	40.545	0.00	0.00
ATOM	5225	HA	SER	X	348	66.568	30.642	40.574	0.00	0.00
ATOM	5226	CB	SER	X	348	64.529	30.062	40.602	0.00	0.00
ATOM	5227	HB2	SER	X	348	63.857	29.204	40.636	0.00	0.00
ATOM	5228	HB3	SER	X	348	64.400	30.427	41.621	0.00	0.00
ATOM	5229	OG	SER	X	348	64.234	30.931	39.590	0.00	0.00
ATOM	5230	HG	SER	X	348	64.079	30.626	38.692	0.00	0.00
ATOM	5231	C	SER	X	348	66.405	28.729	41.736	0.00	0.00
ATOM	5232	O	SER	X	348	65.627	28.474	42.719	0.00	0.00
ATOM	5233	N	LEU	X	349	67.543	28.036	41.576	0.00	0.00
ATOM	5234	H	LEU	X	349	68.004	28.172	40.688	0.00	0.00
ATOM	5235	CA	LEU	X	349	68.058	26.890	42.368	0.00	0.00
ATOM	5236	HA	LEU	X	349	67.344	26.138	42.704	0.00	0.00
ATOM	5237	CB	LEU	X	349	69.068	26.243	41.486	0.00	0.00
ATOM	5238	HB2	LEU	X	349	69.798	27.004	41.212	0.00	0.00
ATOM	5239	HB3	LEU	X	349	69.619	25.561	42.134	0.00	0.00
ATOM	5240	CG	LEU	X	349	68.532	25.442	40.269	0.00	0.00
ATOM	5241	HG	LEU	X	349	67.779	26.088	39.817	0.00	0.00
ATOM	5242	CD1	LEU	X	349	69.554	24.966	39.222	0.00	0.00
ATOM	5243	HD11	LEU	X	349	68.989	24.711	38.325	0.00	0.00
ATOM	5244	HD12	LEU	X	349	70.043	24.055	39.567	0.00	0.00
ATOM	5245	HD13	LEU	X	349	70.256	25.768	38.994	0.00	0.00
ATOM	5246	CD2	LEU	X	349	67.819	24.220	40.790	0.00	0.00
ATOM	5247	HD21	LEU	X	349	67.179	23.755	40.039	0.00	0.00
ATOM	5248	HD22	LEU	X	349	68.606	23.523	41.077	0.00	0.00
ATOM	5249	HD23	LEU	X	349	67.328	24.298	41.760	0.00	0.00
ATOM	5250	C	LEU	X	349	68.630	27.467	43.710	0.00	0.00
ATOM	5251	O	LEU	X	349	69.782	27.251	44.006	0.00	0.00
ATOM	5252	N	ILE	X	350	67.859	28.199	44.529	0.00	0.00
ATOM	5253	H	ILE	X	350	66.899	28.266	44.223	0.00	0.00
ATOM	5254	CA	ILE	X	350	68.220	29.076	45.677	0.00	0.00
ATOM	5255	HA	ILE	X	350	69.050	29.729	45.408	0.00	0.00
ATOM	5256	CB	ILE	X	350	67.028	29.937	46.070	0.00	0.00
ATOM	5257	HB	ILE	X	350	67.317	30.384	47.022	0.00	0.00

ATOM	5258	CG2	ILE	X	350	66.770	31.109	45.136	0.00	0.00
ATOM	5259	HG21	ILE	X	350	66.177	31.902	45.590	0.00	0.00
ATOM	5260	HG22	ILE	X	350	66.267	30.788	44.224	0.00	0.00
ATOM	5261	HG23	ILE	X	350	67.701	31.577	44.814	0.00	0.00
ATOM	5262	CG1	ILE	X	350	65.700	29.225	46.269	0.00	0.00
ATOM	5263	HG12	ILE	X	350	65.361	28.984	45.262	0.00	0.00
ATOM	5264	HG13	ILE	X	350	65.908	28.273	46.758	0.00	0.00
ATOM	5265	CD1	ILE	X	350	64.723	30.030	47.191	0.00	0.00
ATOM	5266	HD11	ILE	X	350	63.752	29.535	47.222	0.00	0.00
ATOM	5267	HD12	ILE	X	350	64.541	31.006	46.740	0.00	0.00
ATOM	5268	HD13	ILE	X	350	65.270	30.216	48.115	0.00	0.00
ATOM	5269	C	ILE	X	350	68.697	28.238	46.905	0.00	0.00
ATOM	5270	O	ILE	X	350	68.340	27.100	47.092	0.00	0.00
ATOM	5271	N	SER	X	351	69.442	28.853	47.764	0.00	0.00
ATOM	5272	H	SER	X	351	69.702	29.817	47.615	0.00	0.00
ATOM	5273	CA	SER	X	351	69.745	28.308	49.108	0.00	0.00
ATOM	5274	HA	SER	X	351	69.508	27.251	49.231	0.00	0.00
ATOM	5275	CB	SER	X	351	71.203	28.577	49.391	0.00	0.00
ATOM	5276	HB2	SER	X	351	71.471	28.095	50.331	0.00	0.00
ATOM	5277	HB3	SER	X	351	71.756	28.223	48.521	0.00	0.00
ATOM	5278	OG	SER	X	351	71.423	29.953	49.468	0.00	0.00
ATOM	5279	HG	SER	X	351	71.389	30.385	48.611	0.00	0.00
ATOM	5280	C	SER	X	351	68.839	28.972	50.239	0.00	0.00
ATOM	5281	O	SER	X	351	68.219	29.982	49.983	0.00	0.00
ATOM	5282	N	ARG	X	352	68.918	28.461	51.492	0.00	0.00
ATOM	5283	H	ARG	X	352	69.358	27.554	51.551	0.00	0.00
ATOM	5284	CA	ARG	X	352	68.350	28.997	52.771	0.00	0.00
ATOM	5285	HA	ARG	X	352	67.268	28.869	52.734	0.00	0.00
ATOM	5286	CB	ARG	X	352	68.781	28.220	54.044	0.00	0.00
ATOM	5287	HB2	ARG	X	352	69.871	28.231	54.045	0.00	0.00
ATOM	5288	HB3	ARG	X	352	68.476	28.793	54.919	0.00	0.00
ATOM	5289	CG	ARG	X	352	68.102	26.862	54.004	0.00	0.00
ATOM	5290	HG2	ARG	X	352	67.044	26.951	53.760	0.00	0.00
ATOM	5291	HG3	ARG	X	352	68.540	26.467	53.088	0.00	0.00
ATOM	5292	CD	ARG	X	352	68.466	25.965	55.194	0.00	0.00
ATOM	5293	HD2	ARG	X	352	68.212	24.920	55.018	0.00	0.00
ATOM	5294	HD3	ARG	X	352	69.543	26.096	55.300	0.00	0.00
ATOM	5295	NE	ARG	X	352	67.866	26.422	56.452	0.00	0.00
ATOM	5296	HE	ARG	X	352	68.495	26.714	57.186	0.00	0.00
ATOM	5297	CZ	ARG	X	352	66.646	26.242	56.791	0.00	0.00
ATOM	5298	NH1	ARG	X	352	65.764	25.841	55.948	0.00	0.00
ATOM	5299	HH11	ARG	X	352	66.065	25.614	55.011	0.00	0.00
ATOM	5300	HH12	ARG	X	352	64.830	25.578	56.227	0.00	0.00
ATOM	5301	NH2	ARG	X	352	66.226	26.553	58.009	0.00	0.00
ATOM	5302	HH21	ARG	X	352	66.913	26.951	58.633	0.00	0.00
ATOM	5303	HH22	ARG	X	352	65.257	26.432	58.267	0.00	0.00
ATOM	5304	C	ARG	X	352	68.520	30.524	52.952	0.00	0.00
ATOM	5305	O	ARG	X	352	67.570	31.063	53.489	0.00	0.00
ATOM	5306	N	ALA	X	353	69.576	31.133	52.452	0.00	0.00
ATOM	5307	H	ALA	X	353	70.320	30.588	52.040	0.00	0.00
ATOM	5308	CA	ALA	X	353	69.782	32.566	52.558	0.00	0.00
ATOM	5309	HA	ALA	X	353	69.571	32.799	53.602	0.00	0.00
ATOM	5310	CB	ALA	X	353	71.299	32.726	52.318	0.00	0.00
ATOM	5311	HB1	ALA	X	353	71.448	33.806	52.310	0.00	0.00
ATOM	5312	HB2	ALA	X	353	71.637	32.325	51.363	0.00	0.00
ATOM	5313	HB3	ALA	X	353	71.887	32.306	53.135	0.00	0.00
ATOM	5314	C	ALA	X	353	68.931	33.333	51.545	0.00	0.00
ATOM	5315	O	ALA	X	353	68.263	34.263	51.996	0.00	0.00
ATOM	5316	N	GLU	X	354	68.846	33.029	50.235	0.00	0.00
ATOM	5317	H	GLU	X	354	69.244	32.154	49.926	0.00	0.00
ATOM	5318	CA	GLU	X	354	67.949	33.725	49.275	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.094	34.805	49.311	0.00	0.00
ATOM	5320	CB	GLU	X	354	68.154	33.299	47.801	0.00	0.00
ATOM	5321	HB2	GLU	X	354	67.973	32.229	47.707	0.00	0.00
ATOM	5322	HB3	GLU	X	354	67.457	33.904	47.221	0.00	0.00
ATOM	5323	CG	GLU	X	354	69.580	33.597	47.307	0.00	0.00
ATOM	5324	HG2	GLU	X	354	69.531	33.533	46.220	0.00	0.00

ATOM	5325	HG3	GLU	X	354	69.796	34.632	47.574	0.00	0.00
ATOM	5326	CD	GLU	X	354	70.708	32.726	47.890	0.00	0.00
ATOM	5327	OE1	GLU	X	354	70.708	31.484	47.611	0.00	0.00
ATOM	5328	OE2	GLU	X	354	71.724	33.188	48.454	0.00	0.00
ATOM	5329	C	GLU	X	354	66.477	33.519	49.747	0.00	0.00
ATOM	5330	O	GLU	X	354	65.634	34.427	49.533	0.00	0.00
ATOM	5331	N	PHE	X	355	66.162	32.354	50.308	0.00	0.00
ATOM	5332	H	PHE	X	355	66.781	31.557	50.271	0.00	0.00
ATOM	5333	CA	PHE	X	355	64.864	32.105	50.988	0.00	0.00
ATOM	5334	HA	PHE	X	355	64.182	32.328	50.168	0.00	0.00
ATOM	5335	CB	PHE	X	355	64.746	30.655	51.419	0.00	0.00
ATOM	5336	HB2	PHE	X	355	64.835	30.031	50.529	0.00	0.00
ATOM	5337	HB3	PHE	X	355	65.626	30.498	52.042	0.00	0.00
ATOM	5338	CG	PHE	X	355	63.385	30.327	52.059	0.00	0.00
ATOM	5339	CD1	PHE	X	355	62.279	30.361	51.194	0.00	0.00
ATOM	5340	HD1	PHE	X	355	62.414	30.645	50.161	0.00	0.00
ATOM	5341	CE1	PHE	X	355	61.047	30.036	51.796	0.00	0.00
ATOM	5342	HE1	PHE	X	355	60.151	29.978	51.196	0.00	0.00
ATOM	5343	CZ	PHE	X	355	60.909	29.613	53.107	0.00	0.00
ATOM	5344	HZ	PHE	X	355	59.952	29.378	53.550	0.00	0.00
ATOM	5345	CE2	PHE	X	355	62.090	29.431	53.863	0.00	0.00
ATOM	5346	HE2	PHE	X	355	62.031	29.071	54.880	0.00	0.00
ATOM	5347	CD2	PHE	X	355	63.334	29.811	53.337	0.00	0.00
ATOM	5348	HD2	PHE	X	355	64.245	29.851	53.916	0.00	0.00
ATOM	5349	C	PHE	X	355	64.574	33.134	52.121	0.00	0.00
ATOM	5350	O	PHE	X	355	63.497	33.745	52.127	0.00	0.00
ATOM	5351	N	LEU	X	356	65.367	33.235	53.123	0.00	0.00
ATOM	5352	H	LEU	X	356	66.035	32.486	53.233	0.00	0.00
ATOM	5353	CA	LEU	X	356	65.248	34.117	54.272	0.00	0.00
ATOM	5354	HA	LEU	X	356	64.360	33.785	54.811	0.00	0.00
ATOM	5355	CB	LEU	X	356	66.519	33.893	55.057	0.00	0.00
ATOM	5356	HB2	LEU	X	356	66.522	32.822	55.259	0.00	0.00
ATOM	5357	HB3	LEU	X	356	67.398	33.934	54.414	0.00	0.00
ATOM	5358	CG	LEU	X	356	66.537	34.698	56.409	0.00	0.00
ATOM	5359	HG	LEU	X	356	66.859	35.714	56.180	0.00	0.00
ATOM	5360	CD1	LEU	X	356	65.252	34.741	57.195	0.00	0.00
ATOM	5361	HD11	LEU	X	356	64.505	35.439	56.818	0.00	0.00
ATOM	5362	HD12	LEU	X	356	65.543	35.118	58.175	0.00	0.00
ATOM	5363	HD13	LEU	X	356	64.960	33.692	57.247	0.00	0.00
ATOM	5364	CD2	LEU	X	356	67.551	34.092	57.351	0.00	0.00
ATOM	5365	HD21	LEU	X	356	67.780	34.911	58.032	0.00	0.00
ATOM	5366	HD22	LEU	X	356	67.141	33.268	57.935	0.00	0.00
ATOM	5367	HD23	LEU	X	356	68.483	33.699	56.944	0.00	0.00
ATOM	5368	C	LEU	X	356	65.021	35.555	53.825	0.00	0.00
ATOM	5369	O	LEU	X	356	64.114	36.233	54.303	0.00	0.00
ATOM	5370	N	ALA	X	357	65.793	35.979	52.762	0.00	0.00
ATOM	5371	H	ALA	X	357	66.460	35.326	52.376	0.00	0.00
ATOM	5372	CA	ALA	X	357	65.562	37.308	52.200	0.00	0.00
ATOM	5373	HA	ALA	X	357	65.629	38.029	53.014	0.00	0.00
ATOM	5374	CB	ALA	X	357	66.629	37.604	51.215	0.00	0.00
ATOM	5375	HB1	ALA	X	357	67.650	37.587	51.597	0.00	0.00
ATOM	5376	HB2	ALA	X	357	66.315	38.558	50.791	0.00	0.00
ATOM	5377	HB3	ALA	X	357	66.689	36.842	50.438	0.00	0.00
ATOM	5378	C	ALA	X	357	64.219	37.406	51.493	0.00	0.00
ATOM	5379	O	ALA	X	357	63.440	38.344	51.791	0.00	0.00
ATOM	5380	N	GLY	X	358	63.888	36.379	50.709	0.00	0.00
ATOM	5381	H	GLY	X	358	64.487	35.586	50.527	0.00	0.00
ATOM	5382	CA	GLY	X	358	62.577	36.218	50.130	0.00	0.00
ATOM	5383	HA2	GLY	X	358	62.360	36.989	49.391	0.00	0.00
ATOM	5384	HA3	GLY	X	358	62.558	35.182	49.793	0.00	0.00
ATOM	5385	C	GLY	X	358	61.457	36.329	51.225	0.00	0.00
ATOM	5386	O	GLY	X	358	60.480	36.979	50.961	0.00	0.00
ATOM	5387	N	VAL	X	359	61.542	35.780	52.462	0.00	0.00
ATOM	5388	H	VAL	X	359	62.300	35.131	52.619	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.595	35.911	53.563	0.00	0.00
ATOM	5390	HA	VAL	X	359	59.561	35.821	53.229	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.959	34.739	54.553	0.00	0.00

ATOM	5392	HB	VAL	X	359	62.013	34.750	54.831	0.00	0.00
ATOM	5393	CG1	VAL	X	359	60.018	34.683	55.741	0.00	0.00
ATOM	5394	HG11	VAL	X	359	58.975	34.726	55.427	0.00	0.00
ATOM	5395	HG12	VAL	X	359	60.097	33.856	56.446	0.00	0.00
ATOM	5396	HG13	VAL	X	359	60.097	35.643	56.252	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.587	33.440	53.794	0.00	0.00
ATOM	5398	HG21	VAL	X	359	59.515	33.288	53.670	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.987	32.533	54.248	0.00	0.00
ATOM	5400	HG23	VAL	X	359	60.998	33.379	52.787	0.00	0.00
ATOM	5401	C	VAL	X	359	60.662	37.287	54.332	0.00	0.00
ATOM	5402	O	VAL	X	359	59.605	37.852	54.524	0.00	0.00
ATOM	5403	N	ARG	X	360	61.901	37.811	54.571	0.00	0.00
ATOM	5404	H	ARG	X	360	62.693	37.195	54.448	0.00	0.00
ATOM	5405	CA	ARG	X	360	62.121	39.219	54.947	0.00	0.00
ATOM	5406	HA	ARG	X	360	61.676	39.352	55.933	0.00	0.00
ATOM	5407	CB	ARG	X	360	63.666	39.501	55.068	0.00	0.00
ATOM	5408	HB2	ARG	X	360	64.148	38.677	55.595	0.00	0.00
ATOM	5409	HB3	ARG	X	360	64.080	39.604	54.065	0.00	0.00
ATOM	5410	CG	ARG	X	360	64.070	40.756	55.852	0.00	0.00
ATOM	5411	HG2	ARG	X	360	63.736	41.492	55.120	0.00	0.00
ATOM	5412	HG3	ARG	X	360	63.455	40.824	56.749	0.00	0.00
ATOM	5413	CD	ARG	X	360	65.536	40.747	56.192	0.00	0.00
ATOM	5414	HD2	ARG	X	360	65.723	41.694	56.699	0.00	0.00
ATOM	5415	HD3	ARG	X	360	65.694	39.911	56.873	0.00	0.00
ATOM	5416	NE	ARG	X	360	66.434	40.631	55.005	0.00	0.00
ATOM	5417	HE	ARG	X	360	66.489	41.503	54.497	0.00	0.00
ATOM	5418	CZ	ARG	X	360	67.309	39.635	54.779	0.00	0.00
ATOM	5419	NH1	ARG	X	360	67.483	38.596	55.528	0.00	0.00
ATOM	5420	HH11	ARG	X	360	67.091	38.476	56.451	0.00	0.00
ATOM	5421	HH12	ARG	X	360	68.121	37.884	55.203	0.00	0.00
ATOM	5422	NH2	ARG	X	360	68.049	39.590	53.690	0.00	0.00
ATOM	5423	HH21	ARG	X	360	68.007	40.415	53.110	0.00	0.00
ATOM	5424	HH22	ARG	X	360	68.719	38.877	53.439	0.00	0.00
ATOM	5425	C	ARG	X	360	61.468	40.275	54.059	0.00	0.00
ATOM	5426	O	ARG	X	360	61.074	41.315	54.569	0.00	0.00
ATOM	5427	N	VAL	X	361	61.250	40.085	52.776	0.00	0.00
ATOM	5428	H	VAL	X	361	61.800	39.372	52.318	0.00	0.00
ATOM	5429	CA	VAL	X	361	60.553	41.029	51.903	0.00	0.00
ATOM	5430	HA	VAL	X	361	60.407	41.995	52.387	0.00	0.00
ATOM	5431	CB	VAL	X	361	61.342	41.323	50.590	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.862	42.131	50.038	0.00	0.00
ATOM	5433	CG1	VAL	X	361	62.782	41.911	50.838	0.00	0.00
ATOM	5434	HG11	VAL	X	361	63.384	41.062	51.160	0.00	0.00
ATOM	5435	HG12	VAL	X	361	63.076	42.320	49.871	0.00	0.00
ATOM	5436	HG13	VAL	X	361	62.719	42.655	51.633	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.472	40.025	49.719	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.695	39.894	48.967	0.00	0.00
ATOM	5439	HG22	VAL	X	361	61.456	39.121	50.327	0.00	0.00
ATOM	5440	HG23	VAL	X	361	62.437	39.966	49.215	0.00	0.00
ATOM	5441	C	VAL	X	361	59.130	40.477	51.525	0.00	0.00
ATOM	5442	O	VAL	X	361	58.277	41.243	51.108	0.00	0.00
ATOM	5443	N	GLY	X	362	58.949	39.209	51.698	0.00	0.00
ATOM	5444	H	GLY	X	362	59.631	38.604	52.133	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.588	38.642	51.407	0.00	0.00
ATOM	5446	HA2	GLY	X	362	57.077	38.959	50.498	0.00	0.00
ATOM	5447	HA3	GLY	X	362	57.844	37.588	51.296	0.00	0.00
ATOM	5448	C	GLY	X	362	56.608	38.817	52.511	0.00	0.00
ATOM	5449	O	GLY	X	362	55.399	38.714	52.356	0.00	0.00
ATOM	5450	N	VAL	X	363	57.055	39.111	53.733	0.00	0.00
ATOM	5451	H	VAL	X	363	58.049	38.962	53.836	0.00	0.00
ATOM	5452	CA	VAL	X	363	56.255	39.400	54.905	0.00	0.00
ATOM	5453	HA	VAL	X	363	55.201	39.283	54.654	0.00	0.00
ATOM	5454	CB	VAL	X	363	56.370	38.323	56.042	0.00	0.00
ATOM	5455	HB	VAL	X	363	57.384	38.294	56.442	0.00	0.00
ATOM	5456	CG1	VAL	X	363	55.299	38.595	57.091	0.00	0.00
ATOM	5457	HG11	VAL	X	363	55.392	37.887	57.915	0.00	0.00
ATOM	5458	HG12	VAL	X	363	55.506	39.548	57.578	0.00	0.00

ATOM	5459	HG13	VAL	X	363	54.283	38.548	56.701	0.00	0.00
ATOM	5460	CG2	VAL	X	363	56.190	36.889	55.554	0.00	0.00
ATOM	5461	HG21	VAL	X	363	55.339	36.859	54.873	0.00	0.00
ATOM	5462	HG22	VAL	X	363	56.226	36.201	56.399	0.00	0.00
ATOM	5463	HG23	VAL	X	363	57.040	36.623	54.926	0.00	0.00
ATOM	5464	C	VAL	X	363	56.474	40.916	55.347	0.00	0.00
ATOM	5465	O	VAL	X	363	57.492	41.199	56.006	0.00	0.00
ATOM	5466	N	PRO	X	364	55.811	41.887	54.797	0.00	0.00
ATOM	5467	CD	PRO	X	364	54.662	41.765	53.875	0.00	0.00
ATOM	5468	HD2	PRO	X	364	53.833	41.383	54.471	0.00	0.00
ATOM	5469	HD3	PRO	X	364	54.957	41.038	53.118	0.00	0.00
ATOM	5470	CG	PRO	X	364	54.413	43.153	53.329	0.00	0.00
ATOM	5471	HG2	PRO	X	364	53.362	43.172	53.041	0.00	0.00
ATOM	5472	HG3	PRO	X	364	55.111	43.506	52.570	0.00	0.00
ATOM	5473	CB	PRO	X	364	54.695	43.996	54.621	0.00	0.00
ATOM	5474	HB2	PRO	X	364	53.862	43.774	55.289	0.00	0.00
ATOM	5475	HB3	PRO	X	364	54.837	45.012	54.252	0.00	0.00
ATOM	5476	CA	PRO	X	364	55.829	43.297	55.234	0.00	0.00
ATOM	5477	HA	PRO	X	364	56.707	43.646	54.690	0.00	0.00
ATOM	5478	C	PRO	X	364	56.017	43.510	56.710	0.00	0.00
ATOM	5479	O	PRO	X	364	55.336	42.844	57.570	0.00	0.00
ATOM	5480	N	GLN	X	365	56.870	44.482	57.037	0.00	0.00
ATOM	5481	H	GLN	X	365	57.352	45.025	56.334	0.00	0.00
ATOM	5482	CA	GLN	X	365	57.116	44.929	58.377	0.00	0.00
ATOM	5483	HA	GLN	X	365	57.702	45.843	58.282	0.00	0.00
ATOM	5484	CB	GLN	X	365	55.899	45.489	59.022	0.00	0.00
ATOM	5485	HB2	GLN	X	365	55.207	44.692	59.296	0.00	0.00
ATOM	5486	HB3	GLN	X	365	56.224	45.993	59.932	0.00	0.00
ATOM	5487	CG	GLN	X	365	55.082	46.481	58.169	0.00	0.00
ATOM	5488	HG2	GLN	X	365	55.721	47.304	57.849	0.00	0.00
ATOM	5489	HG3	GLN	X	365	54.654	46.064	57.257	0.00	0.00
ATOM	5490	CD	GLN	X	365	54.051	47.248	58.948	0.00	0.00
ATOM	5491	OE1	GLN	X	365	52.866	46.848	59.038	0.00	0.00
ATOM	5492	NE2	GLN	X	365	54.373	48.318	59.570	0.00	0.00
ATOM	5493	HE21	GLN	X	365	53.715	48.724	60.219	0.00	0.00
ATOM	5494	HE22	GLN	X	365	55.291	48.736	59.515	0.00	0.00
ATOM	5495	C	GLN	X	365	57.938	43.917	59.237	0.00	0.00
ATOM	5496	O	GLN	X	365	58.630	44.332	60.207	0.00	0.00
ATOM	5497	N	VAL	X	366	57.917	42.652	58.979	0.00	0.00
ATOM	5498	H	VAL	X	366	57.402	42.351	58.164	0.00	0.00
ATOM	5499	CA	VAL	X	366	58.617	41.669	59.801	0.00	0.00
ATOM	5500	HA	VAL	X	366	58.379	41.875	60.845	0.00	0.00
ATOM	5501	CB	VAL	X	366	58.161	40.164	59.441	0.00	0.00
ATOM	5502	HB	VAL	X	366	57.391	40.343	58.690	0.00	0.00
ATOM	5503	CG1	VAL	X	366	59.289	39.245	58.873	0.00	0.00
ATOM	5504	HG11	VAL	X	366	60.005	38.858	59.597	0.00	0.00
ATOM	5505	HG12	VAL	X	366	58.803	38.370	58.442	0.00	0.00
ATOM	5506	HG13	VAL	X	366	59.832	39.636	58.012	0.00	0.00
ATOM	5507	CG2	VAL	X	366	57.383	39.491	60.580	0.00	0.00
ATOM	5508	HG21	VAL	X	366	57.025	38.547	60.170	0.00	0.00
ATOM	5509	HG22	VAL	X	366	56.593	40.185	60.866	0.00	0.00
ATOM	5510	HG23	VAL	X	366	58.038	39.282	61.426	0.00	0.00
ATOM	5511	C	VAL	X	366	60.109	41.846	59.584	0.00	0.00
ATOM	5512	O	VAL	X	366	60.631	42.104	58.494	0.00	0.00
ATOM	5513	N	SER	X	367	60.796	41.583	60.729	0.00	0.00
ATOM	5514	H	SER	X	367	60.220	41.412	61.540	0.00	0.00
ATOM	5515	CA	SER	X	367	62.234	41.822	60.861	0.00	0.00
ATOM	5516	HA	SER	X	367	62.410	42.615	60.134	0.00	0.00
ATOM	5517	CB	SER	X	367	62.612	42.357	62.309	0.00	0.00
ATOM	5518	HB2	SER	X	367	63.698	42.439	62.343	0.00	0.00
ATOM	5519	HB3	SER	X	367	62.138	43.329	62.443	0.00	0.00
ATOM	5520	OG	SER	X	367	62.213	41.447	63.240	0.00	0.00
ATOM	5521	HG	SER	X	367	61.257	41.390	63.169	0.00	0.00
ATOM	5522	C	SER	X	367	62.967	40.555	60.507	0.00	0.00
ATOM	5523	O	SER	X	367	62.312	39.537	60.461	0.00	0.00
ATOM	5524	N	ASP	X	368	64.306	40.514	60.272	0.00	0.00
ATOM	5525	H	ASP	X	368	64.729	41.431	60.243	0.00	0.00

ATOM	5526	CA	ASP	X	368	65.176	39.275	60.134	0.00	0.00
ATOM	5527	HA	ASP	X	368	64.865	38.807	59.200	0.00	0.00
ATOM	5528	CB	ASP	X	368	66.642	39.674	59.985	0.00	0.00
ATOM	5529	HB2	ASP	X	368	66.718	40.390	59.166	0.00	0.00
ATOM	5530	HB3	ASP	X	368	66.931	40.053	60.965	0.00	0.00
ATOM	5531	CG	ASP	X	368	67.604	38.521	59.558	0.00	0.00
ATOM	5532	OD1	ASP	X	368	68.236	37.942	60.476	0.00	0.00
ATOM	5533	OD2	ASP	X	368	67.915	38.343	58.363	0.00	0.00
ATOM	5534	C	ASP	X	368	64.936	38.299	61.293	0.00	0.00
ATOM	5535	O	ASP	X	368	64.834	37.119	61.054	0.00	0.00
ATOM	5536	N	LEU	X	369	64.950	38.640	62.613	0.00	0.00
ATOM	5537	H	LEU	X	369	65.197	39.599	62.810	0.00	0.00
ATOM	5538	CA	LEU	X	369	64.775	37.689	63.666	0.00	0.00
ATOM	5539	HA	LEU	X	369	65.528	36.908	63.568	0.00	0.00
ATOM	5540	CB	LEU	X	369	65.036	38.404	64.976	0.00	0.00
ATOM	5541	HB2	LEU	X	369	65.981	38.946	64.949	0.00	0.00
ATOM	5542	HB3	LEU	X	369	64.225	39.130	65.021	0.00	0.00
ATOM	5543	CG	LEU	X	369	64.981	37.714	66.321	0.00	0.00
ATOM	5544	HG	LEU	X	369	64.012	37.239	66.475	0.00	0.00
ATOM	5545	CD1	LEU	X	369	66.054	36.636	66.385	0.00	0.00
ATOM	5546	HD11	LEU	X	369	65.759	35.721	65.870	0.00	0.00
ATOM	5547	HD12	LEU	X	369	66.236	36.444	67.442	0.00	0.00
ATOM	5548	HD13	LEU	X	369	66.977	37.021	65.952	0.00	0.00
ATOM	5549	CD2	LEU	X	369	65.079	38.723	67.454	0.00	0.00
ATOM	5550	HD21	LEU	X	369	66.124	39.031	67.452	0.00	0.00
ATOM	5551	HD22	LEU	X	369	64.354	39.536	67.412	0.00	0.00
ATOM	5552	HD23	LEU	X	369	64.920	38.166	68.377	0.00	0.00
ATOM	5553	C	LEU	X	369	63.380	37.093	63.700	0.00	0.00
ATOM	5554	O	LEU	X	369	63.201	36.015	64.250	0.00	0.00
ATOM	5555	N	ALA	X	370	62.316	37.727	63.125	0.00	0.00
ATOM	5556	H	ALA	X	370	62.506	38.621	62.694	0.00	0.00
ATOM	5557	CA	ALA	X	370	61.020	37.059	62.886	0.00	0.00
ATOM	5558	HA	ALA	X	370	60.880	36.315	63.670	0.00	0.00
ATOM	5559	CB	ALA	X	370	59.922	38.052	62.938	0.00	0.00
ATOM	5560	HB1	ALA	X	370	58.945	37.567	62.928	0.00	0.00
ATOM	5561	HB2	ALA	X	370	59.950	38.582	61.986	0.00	0.00
ATOM	5562	HB3	ALA	X	370	59.856	38.692	63.818	0.00	0.00
ATOM	5563	C	ALA	X	370	60.945	36.226	61.599	0.00	0.00
ATOM	5564	O	ALA	X	370	60.456	35.092	61.632	0.00	0.00
ATOM	5565	N	ALA	X	371	61.604	36.745	60.545	0.00	0.00
ATOM	5566	H	ALA	X	371	61.900	37.707	60.634	0.00	0.00
ATOM	5567	CA	ALA	X	371	61.705	36.109	59.272	0.00	0.00
ATOM	5568	HA	ALA	X	371	60.679	35.962	58.935	0.00	0.00
ATOM	5569	CB	ALA	X	371	62.316	36.989	58.172	0.00	0.00
ATOM	5570	HB1	ALA	X	371	63.359	37.151	58.443	0.00	0.00
ATOM	5571	HB2	ALA	X	371	61.775	37.911	57.957	0.00	0.00
ATOM	5572	HB3	ALA	X	371	62.431	36.390	57.269	0.00	0.00
ATOM	5573	C	ALA	X	371	62.513	34.805	59.342	0.00	0.00
ATOM	5574	O	ALA	X	371	62.099	33.788	58.762	0.00	0.00
ATOM	5575	N	GLU	X	372	63.519	34.658	60.172	0.00	0.00
ATOM	5576	H	GLU	X	372	63.761	35.515	60.649	0.00	0.00
ATOM	5577	CA	GLU	X	372	64.264	33.404	60.533	0.00	0.00
ATOM	5578	HA	GLU	X	372	64.658	33.014	59.595	0.00	0.00
ATOM	5579	CB	GLU	X	372	65.549	33.745	61.316	0.00	0.00
ATOM	5580	HB2	GLU	X	372	66.019	34.550	60.751	0.00	0.00
ATOM	5581	HB3	GLU	X	372	65.236	34.015	62.325	0.00	0.00
ATOM	5582	CG	GLU	X	372	66.402	32.525	61.349	0.00	0.00
ATOM	5583	HG2	GLU	X	372	65.897	31.645	61.747	0.00	0.00
ATOM	5584	HG3	GLU	X	372	66.733	32.284	60.339	0.00	0.00
ATOM	5585	CD	GLU	X	372	67.602	32.769	62.254	0.00	0.00
ATOM	5586	OE1	GLU	X	372	67.632	32.376	63.467	0.00	0.00
ATOM	5587	OE2	GLU	X	372	68.516	33.350	61.674	0.00	0.00
ATOM	5588	C	GLU	X	372	63.335	32.330	61.246	0.00	0.00
ATOM	5589	O	GLU	X	372	63.472	31.138	60.898	0.00	0.00
ATOM	5590	N	ALA	X	373	62.308	32.700	62.057	0.00	0.00
ATOM	5591	H	ALA	X	373	62.266	33.699	62.199	0.00	0.00
ATOM	5592	CA	ALA	X	373	61.330	31.870	62.726	0.00	0.00

ATOM	5593	HA	ALA	X	373	61.718	30.939	63.139	0.00	0.00
ATOM	5594	CB	ALA	X	373	60.756	32.693	63.924	0.00	0.00
ATOM	5595	HB1	ALA	X	373	60.600	33.765	63.800	0.00	0.00
ATOM	5596	HB2	ALA	X	373	61.484	32.679	64.735	0.00	0.00
ATOM	5597	HB3	ALA	X	373	59.816	32.325	64.334	0.00	0.00
ATOM	5598	C	ALA	X	373	60.151	31.571	61.761	0.00	0.00
ATOM	5599	O	ALA	X	373	59.698	30.460	61.882	0.00	0.00
ATOM	5600	N	VAL	X	374	59.893	32.428	60.764	0.00	0.00
ATOM	5601	H	VAL	X	374	60.256	33.370	60.781	0.00	0.00
ATOM	5602	CA	VAL	X	374	59.012	32.054	59.596	0.00	0.00
ATOM	5603	HA	VAL	X	374	58.131	31.518	59.949	0.00	0.00
ATOM	5604	CB	VAL	X	374	58.478	33.224	58.761	0.00	0.00
ATOM	5605	HB	VAL	X	374	59.404	33.673	58.402	0.00	0.00
ATOM	5606	CG1	VAL	X	374	57.824	32.771	57.451	0.00	0.00
ATOM	5607	HG11	VAL	X	374	57.313	33.633	57.022	0.00	0.00
ATOM	5608	HG12	VAL	X	374	58.564	32.373	56.757	0.00	0.00
ATOM	5609	HG13	VAL	X	374	57.180	31.908	57.625	0.00	0.00
ATOM	5610	CG2	VAL	X	374	57.721	34.258	59.566	0.00	0.00
ATOM	5611	HG21	VAL	X	374	58.062	35.277	59.387	0.00	0.00
ATOM	5612	HG22	VAL	X	374	57.895	34.079	60.627	0.00	0.00
ATOM	5613	HG23	VAL	X	374	56.679	34.269	59.245	0.00	0.00
ATOM	5614	C	VAL	X	374	59.731	30.957	58.755	0.00	0.00
ATOM	5615	O	VAL	X	374	59.088	30.009	58.371	0.00	0.00
ATOM	5616	N	VAL	X	375	61.032	31.128	58.496	0.00	0.00
ATOM	5617	H	VAL	X	375	61.453	31.965	58.874	0.00	0.00
ATOM	5618	CA	VAL	X	375	61.798	30.074	57.825	0.00	0.00
ATOM	5619	HA	VAL	X	375	61.274	29.881	56.888	0.00	0.00
ATOM	5620	CB	VAL	X	375	63.266	30.604	57.552	0.00	0.00
ATOM	5621	HB	VAL	X	375	63.704	31.083	58.429	0.00	0.00
ATOM	5622	CG1	VAL	X	375	64.142	29.454	57.072	0.00	0.00
ATOM	5623	HG11	VAL	X	375	64.236	28.744	57.893	0.00	0.00
ATOM	5624	HG12	VAL	X	375	63.725	28.950	56.199	0.00	0.00
ATOM	5625	HG13	VAL	X	375	65.108	29.915	56.864	0.00	0.00
ATOM	5626	CG2	VAL	X	375	63.239	31.695	56.436	0.00	0.00
ATOM	5627	HG21	VAL	X	375	64.235	31.908	56.048	0.00	0.00
ATOM	5628	HG22	VAL	X	375	62.856	32.643	56.813	0.00	0.00
ATOM	5629	HG23	VAL	X	375	62.689	31.277	55.592	0.00	0.00
ATOM	5630	C	VAL	X	375	61.777	28.680	58.508	0.00	0.00
ATOM	5631	O	VAL	X	375	61.567	27.634	57.915	0.00	0.00
ATOM	5632	N	LEU	X	376	61.800	28.782	59.843	0.00	0.00
ATOM	5633	H	LEU	X	376	62.028	29.693	60.215	0.00	0.00
ATOM	5634	CA	LEU	X	376	61.806	27.662	60.807	0.00	0.00
ATOM	5635	HA	LEU	X	376	62.618	27.028	60.450	0.00	0.00
ATOM	5636	CB	LEU	X	376	62.061	28.191	62.272	0.00	0.00
ATOM	5637	HB2	LEU	X	376	63.080	28.577	62.255	0.00	0.00
ATOM	5638	HB3	LEU	X	376	61.340	28.912	62.657	0.00	0.00
ATOM	5639	CG	LEU	X	376	62.261	27.158	63.369	0.00	0.00
ATOM	5640	HG	LEU	X	376	62.942	26.366	63.058	0.00	0.00
ATOM	5641	CD1	LEU	X	376	62.755	27.788	64.669	0.00	0.00
ATOM	5642	HD11	LEU	X	376	62.830	27.099	65.511	0.00	0.00
ATOM	5643	HD12	LEU	X	376	62.105	28.614	64.957	0.00	0.00
ATOM	5644	HD13	LEU	X	376	63.704	28.319	64.583	0.00	0.00
ATOM	5645	CD2	LEU	X	376	61.067	26.311	63.842	0.00	0.00
ATOM	5646	HD21	LEU	X	376	60.422	26.081	62.994	0.00	0.00
ATOM	5647	HD22	LEU	X	376	61.472	25.371	64.218	0.00	0.00
ATOM	5648	HD23	LEU	X	376	60.551	26.819	64.657	0.00	0.00
ATOM	5649	C	LEU	X	376	60.508	26.865	60.684	0.00	0.00
ATOM	5650	O	LEU	X	376	60.518	25.653	60.614	0.00	0.00
ATOM	5651	N	HIE	X	377	59.282	27.463	60.687	0.00	0.00
ATOM	5652	H	HIE	X	377	59.284	28.467	60.798	0.00	0.00
ATOM	5653	CA	HIE	X	377	57.994	26.860	60.348	0.00	0.00
ATOM	5654	HA	HIE	X	377	57.643	26.102	61.048	0.00	0.00
ATOM	5655	CB	HIE	X	377	56.985	27.991	60.322	0.00	0.00
ATOM	5656	HB2	HIE	X	377	56.980	28.524	61.273	0.00	0.00
ATOM	5657	HB3	HIE	X	377	57.348	28.771	59.654	0.00	0.00
ATOM	5658	CG	HIE	X	377	55.600	27.559	60.021	0.00	0.00
ATOM	5659	ND1	HIE	X	377	54.709	26.890	60.848	0.00	0.00

ATOM	5660	CE1	HIE	X	377	53.601	26.894	60.141	0.00	0.00
ATOM	5661	HE1	HIE	X	377	52.644	26.547	60.502	0.00	0.00
ATOM	5662	NE2	HIE	X	377	53.760	27.410	58.917	0.00	0.00
ATOM	5663	HE2	HIE	X	377	53.064	27.508	58.192	0.00	0.00
ATOM	5664	CD2	HIE	X	377	55.007	27.895	58.827	0.00	0.00
ATOM	5665	HD2	HIE	X	377	55.462	28.484	58.044	0.00	0.00
ATOM	5666	C	HIE	X	377	57.983	26.221	58.949	0.00	0.00
ATOM	5667	O	HIE	X	377	57.470	25.103	58.866	0.00	0.00
ATOM	5668	N	TYR	X	378	58.589	26.756	57.900	0.00	0.00
ATOM	5669	H	TYR	X	378	58.944	27.692	58.034	0.00	0.00
ATOM	5670	CA	TYR	X	378	58.807	26.161	56.593	0.00	0.00
ATOM	5671	HA	TYR	X	378	57.940	25.510	56.479	0.00	0.00
ATOM	5672	CB	TYR	X	378	58.713	27.313	55.546	0.00	0.00
ATOM	5673	HB2	TYR	X	378	59.436	28.045	55.908	0.00	0.00
ATOM	5674	HB3	TYR	X	378	58.982	26.970	54.547	0.00	0.00
ATOM	5675	CG	TYR	X	378	57.311	27.882	55.371	0.00	0.00
ATOM	5676	CD1	TYR	X	378	56.357	27.177	54.599	0.00	0.00
ATOM	5677	HD1	TYR	X	378	56.601	26.186	54.245	0.00	0.00
ATOM	5678	CE1	TYR	X	378	55.106	27.759	54.370	0.00	0.00
ATOM	5679	HE1	TYR	X	378	54.392	27.192	53.790	0.00	0.00
ATOM	5680	CZ	TYR	X	378	54.790	29.021	54.936	0.00	0.00
ATOM	5681	OH	TYR	X	378	53.622	29.514	54.556	0.00	0.00
ATOM	5682	HH	TYR	X	378	53.268	28.866	53.943	0.00	0.00
ATOM	5683	CE2	TYR	X	378	55.794	29.761	55.667	0.00	0.00
ATOM	5684	HE2	TYR	X	378	55.569	30.701	56.148	0.00	0.00
ATOM	5685	CD2	TYR	X	378	57.097	29.196	55.818	0.00	0.00
ATOM	5686	HD2	TYR	X	378	57.831	29.664	56.458	0.00	0.00
ATOM	5687	C	TYR	X	378	60.080	25.271	56.327	0.00	0.00
ATOM	5688	O	TYR	X	378	60.337	25.039	55.155	0.00	0.00
ATOM	5689	N	THR	X	379	60.713	24.763	57.419	0.00	0.00
ATOM	5690	H	THR	X	379	60.442	25.015	58.359	0.00	0.00
ATOM	5691	CA	THR	X	379	61.873	23.824	57.363	0.00	0.00
ATOM	5692	HA	THR	X	379	62.313	23.806	56.366	0.00	0.00
ATOM	5693	CB	THR	X	379	62.842	24.278	58.364	0.00	0.00
ATOM	5694	HB	THR	X	379	62.357	24.176	59.334	0.00	0.00
ATOM	5695	CG2	THR	X	379	64.048	23.448	58.547	0.00	0.00
ATOM	5696	HG21	THR	X	379	64.581	23.288	57.610	0.00	0.00
ATOM	5697	HG22	THR	X	379	63.784	22.453	58.907	0.00	0.00
ATOM	5698	HG23	THR	X	379	64.730	23.943	59.238	0.00	0.00
ATOM	5699	OG1	THR	X	379	63.205	25.626	58.069	0.00	0.00
ATOM	5700	HG1	THR	X	379	62.387	26.126	58.021	0.00	0.00
ATOM	5701	C	THR	X	379	61.456	22.381	57.530	0.00	0.00
ATOM	5702	O	THR	X	379	60.388	22.175	58.189	0.00	0.00
ATOM	5703	N	ASP	X	380	62.162	21.390	57.009	0.00	0.00
ATOM	5704	H	ASP	X	380	63.033	21.706	56.607	0.00	0.00
ATOM	5705	CA	ASP	X	380	61.881	19.970	57.122	0.00	0.00
ATOM	5706	HA	ASP	X	380	61.055	19.817	57.817	0.00	0.00
ATOM	5707	CB	ASP	X	380	61.604	19.355	55.746	0.00	0.00
ATOM	5708	HB2	ASP	X	380	60.976	19.913	55.051	0.00	0.00
ATOM	5709	HB3	ASP	X	380	62.519	19.429	55.158	0.00	0.00
ATOM	5710	CG	ASP	X	380	61.183	17.906	55.761	0.00	0.00
ATOM	5711	OD1	ASP	X	380	59.970	17.534	55.499	0.00	0.00
ATOM	5712	OD2	ASP	X	380	62.056	17.055	56.004	0.00	0.00
ATOM	5713	C	ASP	X	380	63.075	19.282	57.807	0.00	0.00
ATOM	5714	O	ASP	X	380	64.171	19.826	57.703	0.00	0.00
ATOM	5715	N	TRP	X	381	62.804	18.275	58.575	0.00	0.00
ATOM	5716	H	TRP	X	381	61.840	18.073	58.801	0.00	0.00
ATOM	5717	CA	TRP	X	381	63.875	17.743	59.427	0.00	0.00
ATOM	5718	HA	TRP	X	381	64.575	18.514	59.749	0.00	0.00
ATOM	5719	CB	TRP	X	381	63.293	17.044	60.650	0.00	0.00
ATOM	5720	HB2	TRP	X	381	62.616	16.238	60.367	0.00	0.00
ATOM	5721	HB3	TRP	X	381	64.096	16.502	61.150	0.00	0.00
ATOM	5722	CG	TRP	X	381	62.565	17.783	61.652	0.00	0.00
ATOM	5723	CD1	TRP	X	381	61.884	17.195	62.602	0.00	0.00
ATOM	5724	HD1	TRP	X	381	61.864	16.133	62.799	0.00	0.00
ATOM	5725	NE1	TRP	X	381	61.257	18.141	63.442	0.00	0.00
ATOM	5726	HE1	TRP	X	381	60.784	17.957	64.315	0.00	0.00

ATOM	5727	CE2	TRP	X	381	61.482	19.404	63.023	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	60.944	20.559	63.501	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	60.292	20.602	64.361	0.00	0.00
ATOM	5730	CH2	TRP	X	381	61.403	21.713	62.808	0.00	0.00
ATOM	5731	HH2	TRP	X	381	61.072	22.675	63.170	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	62.231	21.673	61.608	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	62.274	22.515	60.932	0.00	0.00
ATOM	5734	CE3	TRP	X	381	62.602	20.416	61.149	0.00	0.00
ATOM	5735	HE3	TRP	X	381	63.211	20.253	60.272	0.00	0.00
ATOM	5736	CD2	TRP	X	381	62.267	19.267	61.850	0.00	0.00
ATOM	5737	C	TRP	X	381	64.843	16.883	58.660	0.00	0.00
ATOM	5738	O	TRP	X	381	65.984	16.617	59.082	0.00	0.00
ATOM	5739	N	LEU	X	382	64.521	16.528	57.413	0.00	0.00
ATOM	5740	H	LEU	X	382	63.576	16.714	57.109	0.00	0.00
ATOM	5741	CA	LEU	X	382	65.363	15.812	56.469	0.00	0.00
ATOM	5742	HA	LEU	X	382	66.300	15.639	56.999	0.00	0.00
ATOM	5743	CB	LEU	X	382	64.610	14.557	56.088	0.00	0.00
ATOM	5744	HB2	LEU	X	382	64.486	13.970	56.998	0.00	0.00
ATOM	5745	HB3	LEU	X	382	63.692	14.781	55.544	0.00	0.00
ATOM	5746	CG	LEU	X	382	65.447	13.550	55.078	0.00	0.00
ATOM	5747	HG	LEU	X	382	65.511	14.056	54.115	0.00	0.00
ATOM	5748	CD1	LEU	X	382	66.860	13.083	55.581	0.00	0.00
ATOM	5749	HD11	LEU	X	382	66.710	12.620	56.557	0.00	0.00
ATOM	5750	HD12	LEU	X	382	67.555	13.911	55.721	0.00	0.00
ATOM	5751	HD13	LEU	X	382	67.235	12.343	54.874	0.00	0.00
ATOM	5752	CD2	LEU	X	382	64.458	12.356	54.941	0.00	0.00
ATOM	5753	HD21	LEU	X	382	64.434	11.905	55.933	0.00	0.00
ATOM	5754	HD22	LEU	X	382	63.544	12.777	54.522	0.00	0.00
ATOM	5755	HD23	LEU	X	382	64.820	11.657	54.188	0.00	0.00
ATOM	5756	C	LEU	X	382	65.622	16.572	55.180	0.00	0.00
ATOM	5757	O	LEU	X	382	66.768	16.419	54.631	0.00	0.00
ATOM	5758	N	HIE	X	383	64.707	17.502	54.821	0.00	0.00
ATOM	5759	H	HIE	X	383	63.894	17.674	55.395	0.00	0.00
ATOM	5760	CA	HIE	X	383	64.865	18.286	53.553	0.00	0.00
ATOM	5761	HA	HIE	X	383	65.639	17.927	52.874	0.00	0.00
ATOM	5762	CB	HIE	X	383	63.617	17.927	52.725	0.00	0.00
ATOM	5763	HB2	HIE	X	383	62.659	18.167	53.184	0.00	0.00
ATOM	5764	HB3	HIE	X	383	63.683	18.416	51.753	0.00	0.00
ATOM	5765	CG	HIE	X	383	63.558	16.504	52.392	0.00	0.00
ATOM	5766	ND1	HIE	X	383	64.228	15.903	51.347	0.00	0.00
ATOM	5767	CE1	HIE	X	383	63.740	14.676	51.255	0.00	0.00
ATOM	5768	HE1	HIE	X	383	63.956	13.937	50.497	0.00	0.00
ATOM	5769	NE2	HIE	X	383	62.883	14.437	52.209	0.00	0.00
ATOM	5770	HE2	HIE	X	383	62.293	13.626	52.333	0.00	0.00
ATOM	5771	CD2	HIE	X	383	62.710	15.571	52.949	0.00	0.00
ATOM	5772	HD2	HIE	X	383	62.029	15.659	53.783	0.00	0.00
ATOM	5773	C	HIE	X	383	64.935	19.833	53.721	0.00	0.00
ATOM	5774	O	HIE	X	383	64.142	20.563	53.064	0.00	0.00
ATOM	5775	N	PRO	X	384	65.822	20.296	54.599	0.00	0.00
ATOM	5776	CD	PRO	X	384	66.837	19.585	55.442	0.00	0.00
ATOM	5777	HD2	PRO	X	384	67.533	18.911	54.942	0.00	0.00
ATOM	5778	HD3	PRO	X	384	66.273	19.011	56.178	0.00	0.00
ATOM	5779	CG	PRO	X	384	67.681	20.629	56.129	0.00	0.00
ATOM	5780	HG2	PRO	X	384	68.535	20.923	55.518	0.00	0.00
ATOM	5781	HG3	PRO	X	384	67.928	20.317	57.144	0.00	0.00
ATOM	5782	CB	PRO	X	384	66.788	21.835	56.213	0.00	0.00
ATOM	5783	HB2	PRO	X	384	67.197	22.843	56.282	0.00	0.00
ATOM	5784	HB3	PRO	X	384	66.133	21.730	57.078	0.00	0.00
ATOM	5785	CA	PRO	X	384	65.854	21.707	54.976	0.00	0.00
ATOM	5786	HA	PRO	X	384	64.930	22.233	55.219	0.00	0.00
ATOM	5787	C	PRO	X	384	66.501	22.601	53.835	0.00	0.00
ATOM	5788	O	PRO	X	384	66.178	23.851	53.770	0.00	0.00
ATOM	5789	N	GLU	X	385	67.336	21.986	52.974	0.00	0.00
ATOM	5790	H	GLU	X	385	67.426	20.980	52.983	0.00	0.00
ATOM	5791	CA	GLU	X	385	68.116	22.732	51.992	0.00	0.00
ATOM	5792	HA	GLU	X	385	67.943	23.805	52.069	0.00	0.00
ATOM	5793	CB	GLU	X	385	69.661	22.592	52.235	0.00	0.00

ATOM	5794	HB2	GLU	X	385	69.904	21.531	52.291	0.00	0.00
ATOM	5795	HB3	GLU	X	385	70.117	23.181	51.439	0.00	0.00
ATOM	5796	CG	GLU	X	385	70.227	23.156	53.533	0.00	0.00
ATOM	5797	HG2	GLU	X	385	69.979	24.207	53.680	0.00	0.00
ATOM	5798	HG3	GLU	X	385	69.674	22.692	54.350	0.00	0.00
ATOM	5799	CD	GLU	X	385	71.660	22.825	53.733	0.00	0.00
ATOM	5800	OE1	GLU	X	385	72.338	23.641	54.316	0.00	0.00
ATOM	5801	OE2	GLU	X	385	72.154	21.776	53.302	0.00	0.00
ATOM	5802	C	GLU	X	385	67.764	22.155	50.556	0.00	0.00
ATOM	5803	O	GLU	X	385	68.641	22.184	49.669	0.00	0.00
ATOM	5804	N	ASP	X	386	66.452	21.856	50.383	0.00	0.00
ATOM	5805	H	ASP	X	386	65.772	21.935	51.125	0.00	0.00
ATOM	5806	CA	ASP	X	386	65.956	21.527	49.049	0.00	0.00
ATOM	5807	HA	ASP	X	386	66.748	21.061	48.463	0.00	0.00
ATOM	5808	CB	ASP	X	386	64.894	20.460	49.215	0.00	0.00
ATOM	5809	HB2	ASP	X	386	65.253	19.513	49.616	0.00	0.00
ATOM	5810	HB3	ASP	X	386	64.153	20.823	49.927	0.00	0.00
ATOM	5811	CG	ASP	X	386	64.341	19.964	47.860	0.00	0.00
ATOM	5812	OD1	ASP	X	386	63.412	19.100	47.910	0.00	0.00
ATOM	5813	OD2	ASP	X	386	64.771	20.491	46.771	0.00	0.00
ATOM	5814	C	ASP	X	386	65.487	22.840	48.336	0.00	0.00
ATOM	5815	O	ASP	X	386	64.506	23.477	48.775	0.00	0.00
ATOM	5816	N	PRO	X	387	66.091	23.206	47.169	0.00	0.00
ATOM	5817	CD	PRO	X	387	67.158	22.531	46.381	0.00	0.00
ATOM	5818	HD2	PRO	X	387	66.585	21.888	45.713	0.00	0.00
ATOM	5819	HD3	PRO	X	387	67.893	22.077	47.047	0.00	0.00
ATOM	5820	CG	PRO	X	387	67.755	23.742	45.654	0.00	0.00
ATOM	5821	HG2	PRO	X	387	68.242	23.407	44.738	0.00	0.00
ATOM	5822	HG3	PRO	X	387	68.473	24.356	46.198	0.00	0.00
ATOM	5823	CB	PRO	X	387	66.525	24.593	45.202	0.00	0.00
ATOM	5824	HB2	PRO	X	387	65.996	24.341	44.284	0.00	0.00
ATOM	5825	HB3	PRO	X	387	66.885	25.622	45.230	0.00	0.00
ATOM	5826	CA	PRO	X	387	65.565	24.287	46.377	0.00	0.00
ATOM	5827	HA	PRO	X	387	65.649	25.204	46.961	0.00	0.00
ATOM	5828	C	PRO	X	387	64.131	24.091	45.889	0.00	0.00
ATOM	5829	O	PRO	X	387	63.455	25.124	45.830	0.00	0.00
ATOM	5830	N	ALA	X	388	63.682	22.921	45.501	0.00	0.00
ATOM	5831	H	ALA	X	388	64.207	22.061	45.563	0.00	0.00
ATOM	5832	CA	ALA	X	388	62.247	22.762	45.169	0.00	0.00
ATOM	5833	HA	ALA	X	388	62.104	23.535	44.415	0.00	0.00
ATOM	5834	CB	ALA	X	388	62.139	21.326	44.575	0.00	0.00
ATOM	5835	HB1	ALA	X	388	62.402	20.608	45.351	0.00	0.00
ATOM	5836	HB2	ALA	X	388	62.730	21.130	43.680	0.00	0.00
ATOM	5837	HB3	ALA	X	388	61.125	21.030	44.305	0.00	0.00
ATOM	5838	C	ALA	X	388	61.260	23.092	46.300	0.00	0.00
ATOM	5839	O	ALA	X	388	60.250	23.724	46.058	0.00	0.00
ATOM	5840	N	ARG	X	389	61.626	22.659	47.497	0.00	0.00
ATOM	5841	H	ARG	X	389	62.459	22.090	47.542	0.00	0.00
ATOM	5842	CA	ARG	X	389	60.956	22.965	48.785	0.00	0.00
ATOM	5843	HA	ARG	X	389	59.921	22.700	48.571	0.00	0.00
ATOM	5844	CB	ARG	X	389	61.365	22.082	49.978	0.00	0.00
ATOM	5845	HB2	ARG	X	389	62.449	22.068	50.094	0.00	0.00
ATOM	5846	HB3	ARG	X	389	60.931	22.460	50.904	0.00	0.00
ATOM	5847	CG	ARG	X	389	60.841	20.683	49.741	0.00	0.00
ATOM	5848	HG2	ARG	X	389	59.783	20.642	49.485	0.00	0.00
ATOM	5849	HG3	ARG	X	389	61.425	20.236	48.936	0.00	0.00
ATOM	5850	CD	ARG	X	389	61.044	19.789	50.941	0.00	0.00
ATOM	5851	HD2	ARG	X	389	61.974	20.061	51.438	0.00	0.00
ATOM	5852	HD3	ARG	X	389	60.177	19.940	51.583	0.00	0.00
ATOM	5853	NE	ARG	X	389	61.212	18.410	50.582	0.00	0.00
ATOM	5854	HE	ARG	X	389	61.889	18.092	49.903	0.00	0.00
ATOM	5855	CZ	ARG	X	389	60.455	17.375	51.049	0.00	0.00
ATOM	5856	NH1	ARG	X	389	59.580	17.453	52.030	0.00	0.00
ATOM	5857	HH11	ARG	X	389	59.135	18.330	52.259	0.00	0.00
ATOM	5858	HH12	ARG	X	389	58.930	16.698	52.199	0.00	0.00
ATOM	5859	NH2	ARG	X	389	60.686	16.193	50.525	0.00	0.00
ATOM	5860	HH21	ARG	X	389	61.592	16.013	50.115	0.00	0.00

ATOM	5861	HH22	ARG	X	389	60.151	15.411	50.875	0.00	0.00
ATOM	5862	C	ARG	X	389	61.077	24.480	49.151	0.00	0.00
ATOM	5863	O	ARG	X	389	60.055	25.062	49.460	0.00	0.00
ATOM	5864	N	LEU	X	390	62.262	25.090	49.119	0.00	0.00
ATOM	5865	H	LEU	X	390	63.098	24.540	48.982	0.00	0.00
ATOM	5866	CA	LEU	X	390	62.501	26.482	49.419	0.00	0.00
ATOM	5867	HA	LEU	X	390	62.253	26.888	50.399	0.00	0.00
ATOM	5868	CB	LEU	X	390	64.013	26.825	49.159	0.00	0.00
ATOM	5869	HB2	LEU	X	390	64.297	26.569	48.138	0.00	0.00
ATOM	5870	HB3	LEU	X	390	64.070	27.901	49.324	0.00	0.00
ATOM	5871	CG	LEU	X	390	64.939	26.231	50.217	0.00	0.00
ATOM	5872	HG	LEU	X	390	64.576	25.232	50.460	0.00	0.00
ATOM	5873	CD1	LEU	X	390	66.366	26.251	49.697	0.00	0.00
ATOM	5874	HD11	LEU	X	390	67.038	25.757	50.399	0.00	0.00
ATOM	5875	HD12	LEU	X	390	66.692	27.259	49.442	0.00	0.00
ATOM	5876	HD13	LEU	X	390	66.411	25.645	48.792	0.00	0.00
ATOM	5877	CD2	LEU	X	390	64.775	26.859	51.598	0.00	0.00
ATOM	5878	HD21	LEU	X	390	63.732	26.992	51.886	0.00	0.00
ATOM	5879	HD22	LEU	X	390	65.487	26.497	52.340	0.00	0.00
ATOM	5880	HD23	LEU	X	390	65.164	27.870	51.477	0.00	0.00
ATOM	5881	C	LEU	X	390	61.657	27.342	48.407	0.00	0.00
ATOM	5882	O	LEU	X	390	60.955	28.309	48.821	0.00	0.00
ATOM	5883	N	ARG	X	391	61.784	27.051	47.109	0.00	0.00
ATOM	5884	H	ARG	X	391	62.310	26.235	46.831	0.00	0.00
ATOM	5885	CA	ARG	X	391	61.079	27.811	46.100	0.00	0.00
ATOM	5886	HA	ARG	X	391	61.421	28.842	46.185	0.00	0.00
ATOM	5887	CB	ARG	X	391	61.547	27.359	44.724	0.00	0.00
ATOM	5888	HB2	ARG	X	391	62.595	27.652	44.659	0.00	0.00
ATOM	5889	HB3	ARG	X	391	61.340	26.302	44.561	0.00	0.00
ATOM	5890	CG	ARG	X	391	60.892	28.198	43.599	0.00	0.00
ATOM	5891	HG2	ARG	X	391	59.816	28.057	43.699	0.00	0.00
ATOM	5892	HG3	ARG	X	391	60.931	29.282	43.708	0.00	0.00
ATOM	5893	CD	ARG	X	391	61.571	27.810	42.288	0.00	0.00
ATOM	5894	HD2	ARG	X	391	61.064	28.217	41.414	0.00	0.00
ATOM	5895	HD3	ARG	X	391	62.580	28.212	42.192	0.00	0.00
ATOM	5896	NE	ARG	X	391	61.419	26.385	41.980	0.00	0.00
ATOM	5897	HE	ARG	X	391	62.226	25.885	41.634	0.00	0.00
ATOM	5898	CZ	ARG	X	391	60.275	25.660	41.886	0.00	0.00
ATOM	5899	NH1	ARG	X	391	59.056	26.234	41.996	0.00	0.00
ATOM	5900	HH11	ARG	X	391	58.937	27.210	42.226	0.00	0.00
ATOM	5901	HH12	ARG	X	391	58.280	25.666	41.687	0.00	0.00
ATOM	5902	NH2	ARG	X	391	60.346	24.407	41.543	0.00	0.00
ATOM	5903	HH21	ARG	X	391	61.223	23.950	41.335	0.00	0.00
ATOM	5904	HH22	ARG	X	391	59.446	24.016	41.306	0.00	0.00
ATOM	5905	C	ARG	X	391	59.531	27.614	46.367	0.00	0.00
ATOM	5906	O	ARG	X	391	58.796	28.596	46.311	0.00	0.00
ATOM	5907	N	GLU	X	392	59.046	26.420	46.644	0.00	0.00
ATOM	5908	H	GLU	X	392	59.667	25.634	46.770	0.00	0.00
ATOM	5909	CA	GLU	X	392	57.613	26.168	46.913	0.00	0.00
ATOM	5910	HA	GLU	X	392	56.987	26.433	46.061	0.00	0.00
ATOM	5911	CB	GLU	X	392	57.435	24.661	47.075	0.00	0.00
ATOM	5912	HB2	GLU	X	392	57.800	24.143	46.189	0.00	0.00
ATOM	5913	HB3	GLU	X	392	58.027	24.341	47.932	0.00	0.00
ATOM	5914	CG	GLU	X	392	55.919	24.254	47.140	0.00	0.00
ATOM	5915	HG2	GLU	X	392	55.350	25.152	47.380	0.00	0.00
ATOM	5916	HG3	GLU	X	392	55.605	23.936	46.145	0.00	0.00
ATOM	5917	CD	GLU	X	392	55.728	23.181	48.132	0.00	0.00
ATOM	5918	OE1	GLU	X	392	55.167	23.433	49.210	0.00	0.00
ATOM	5919	OE2	GLU	X	392	56.258	22.058	47.965	0.00	0.00
ATOM	5920	C	GLU	X	392	57.074	26.916	48.183	0.00	0.00
ATOM	5921	O	GLU	X	392	56.058	27.561	48.101	0.00	0.00
ATOM	5922	N	ALA	X	393	57.818	26.897	49.312	0.00	0.00
ATOM	5923	H	ALA	X	393	58.635	26.317	49.444	0.00	0.00
ATOM	5924	CA	ALA	X	393	57.517	27.649	50.470	0.00	0.00
ATOM	5925	HA	ALA	X	393	56.532	27.396	50.863	0.00	0.00
ATOM	5926	CB	ALA	X	393	58.538	27.314	51.487	0.00	0.00
ATOM	5927	HB1	ALA	X	393	58.149	27.762	52.402	0.00	0.00

ATOM	5928	HB2	ALA	X	393	59.534	27.631	51.180	0.00	0.00
ATOM	5929	HB3	ALA	X	393	58.540	26.228	51.579	0.00	0.00
ATOM	5930	C	ALA	X	393	57.419	29.141	50.129	0.00	0.00
ATOM	5931	O	ALA	X	393	56.562	29.846	50.594	0.00	0.00
ATOM	5932	N	LEU	X	394	58.332	29.584	49.272	0.00	0.00
ATOM	5933	H	LEU	X	394	59.043	28.920	49.002	0.00	0.00
ATOM	5934	CA	LEU	X	394	58.378	31.015	48.900	0.00	0.00
ATOM	5935	HA	LEU	X	394	58.177	31.502	49.854	0.00	0.00
ATOM	5936	CB	LEU	X	394	59.755	31.452	48.271	0.00	0.00
ATOM	5937	HB2	LEU	X	394	60.556	31.124	48.934	0.00	0.00
ATOM	5938	HB3	LEU	X	394	59.988	30.978	47.318	0.00	0.00
ATOM	5939	CG	LEU	X	394	59.864	32.953	48.099	0.00	0.00
ATOM	5940	HG	LEU	X	394	59.091	33.346	47.439	0.00	0.00
ATOM	5941	CD1	LEU	X	394	59.742	33.745	49.433	0.00	0.00
ATOM	5942	HD11	LEU	X	394	59.763	34.801	49.163	0.00	0.00
ATOM	5943	HD12	LEU	X	394	60.656	33.643	50.019	0.00	0.00
ATOM	5944	HD13	LEU	X	394	58.857	33.513	50.026	0.00	0.00
ATOM	5945	CD2	LEU	X	394	61.200	33.353	47.505	0.00	0.00
ATOM	5946	HD21	LEU	X	394	61.287	32.908	46.513	0.00	0.00
ATOM	5947	HD22	LEU	X	394	61.222	34.433	47.356	0.00	0.00
ATOM	5948	HD23	LEU	X	394	62.073	33.056	48.085	0.00	0.00
ATOM	5949	C	LEU	X	394	57.245	31.424	47.997	0.00	0.00
ATOM	5950	O	LEU	X	394	56.688	32.491	48.198	0.00	0.00
ATOM	5951	N	SER	X	395	56.729	30.560	47.130	0.00	0.00
ATOM	5952	H	SER	X	395	57.174	29.656	47.064	0.00	0.00
ATOM	5953	CA	SER	X	395	55.430	30.660	46.596	0.00	0.00
ATOM	5954	HA	SER	X	395	55.331	31.624	46.097	0.00	0.00
ATOM	5955	CB	SER	X	395	55.124	29.620	45.540	0.00	0.00
ATOM	5956	HB2	SER	X	395	55.596	28.677	45.815	0.00	0.00
ATOM	5957	HB3	SER	X	395	54.048	29.629	45.366	0.00	0.00
ATOM	5958	OG	SER	X	395	55.819	30.048	44.409	0.00	0.00
ATOM	5959	HG	SER	X	395	55.255	30.069	43.632	0.00	0.00
ATOM	5960	C	SER	X	395	54.337	30.741	47.684	0.00	0.00
ATOM	5961	O	SER	X	395	53.437	31.547	47.459	0.00	0.00
ATOM	5962	N	ASP	X	396	54.416	30.005	48.843	0.00	0.00
ATOM	5963	H	ASP	X	396	55.188	29.371	48.988	0.00	0.00
ATOM	5964	CA	ASP	X	396	53.265	30.024	49.784	0.00	0.00
ATOM	5965	HA	ASP	X	396	52.352	30.050	49.190	0.00	0.00
ATOM	5966	CB	ASP	X	396	53.279	28.917	50.870	0.00	0.00
ATOM	5967	HB2	ASP	X	396	54.015	29.132	51.644	0.00	0.00
ATOM	5968	HB3	ASP	X	396	52.356	29.058	51.433	0.00	0.00
ATOM	5969	CG	ASP	X	396	53.205	27.451	50.396	0.00	0.00
ATOM	5970	OD1	ASP	X	396	52.541	27.188	49.400	0.00	0.00
ATOM	5971	OD2	ASP	X	396	53.877	26.665	51.081	0.00	0.00
ATOM	5972	C	ASP	X	396	53.306	31.322	50.452	0.00	0.00
ATOM	5973	O	ASP	X	396	52.254	31.932	50.515	0.00	0.00
ATOM	5974	N	VAL	X	397	54.463	31.800	50.868	0.00	0.00
ATOM	5975	H	VAL	X	397	55.202	31.126	50.729	0.00	0.00
ATOM	5976	CA	VAL	X	397	54.579	33.080	51.646	0.00	0.00
ATOM	5977	HA	VAL	X	397	54.050	33.023	52.597	0.00	0.00
ATOM	5978	CB	VAL	X	397	56.086	33.428	52.010	0.00	0.00
ATOM	5979	HB	VAL	X	397	56.666	33.526	51.093	0.00	0.00
ATOM	5980	CG1	VAL	X	397	56.196	34.768	52.746	0.00	0.00
ATOM	5981	HG11	VAL	X	397	55.472	34.813	53.560	0.00	0.00
ATOM	5982	HG12	VAL	X	397	57.239	34.790	53.059	0.00	0.00
ATOM	5983	HG13	VAL	X	397	55.984	35.584	52.055	0.00	0.00
ATOM	5984	CG2	VAL	X	397	56.721	32.278	52.874	0.00	0.00
ATOM	5985	HG21	VAL	X	397	55.942	31.600	53.222	0.00	0.00
ATOM	5986	HG22	VAL	X	397	57.091	32.596	53.849	0.00	0.00
ATOM	5987	HG23	VAL	X	397	57.541	31.772	52.365	0.00	0.00
ATOM	5988	C	VAL	X	397	54.032	34.230	50.864	0.00	0.00
ATOM	5989	O	VAL	X	397	53.191	34.926	51.412	0.00	0.00
ATOM	5990	N	VAL	X	398	54.324	34.238	49.534	0.00	0.00
ATOM	5991	H	VAL	X	398	54.979	33.545	49.202	0.00	0.00
ATOM	5992	CA	VAL	X	398	53.846	35.272	48.683	0.00	0.00
ATOM	5993	HA	VAL	X	398	53.946	36.147	49.326	0.00	0.00
ATOM	5994	CB	VAL	X	398	54.812	35.500	47.511	0.00	0.00

ATOM	5995	HB	VAL	X	398	54.661	34.642	46.856	0.00	0.00
ATOM	5996	CG1	VAL	X	398	54.475	36.706	46.627	0.00	0.00
ATOM	5997	HG11	VAL	X	398	53.578	36.566	46.023	0.00	0.00
ATOM	5998	HG12	VAL	X	398	54.315	37.612	47.211	0.00	0.00
ATOM	5999	HG13	VAL	X	398	55.320	36.866	45.957	0.00	0.00
ATOM	6000	CG2	VAL	X	398	56.357	35.673	47.898	0.00	0.00
ATOM	6001	HG21	VAL	X	398	56.561	34.808	48.530	0.00	0.00
ATOM	6002	HG22	VAL	X	398	56.460	36.559	48.524	0.00	0.00
ATOM	6003	HG23	VAL	X	398	56.988	35.637	47.010	0.00	0.00
ATOM	6004	C	VAL	X	398	52.371	35.202	48.214	0.00	0.00
ATOM	6005	O	VAL	X	398	51.826	36.169	47.780	0.00	0.00
ATOM	6006	N	GLY	X	399	51.689	34.112	48.450	0.00	0.00
ATOM	6007	H	GLY	X	399	52.167	33.341	48.895	0.00	0.00
ATOM	6008	CA	GLY	X	399	50.252	33.832	48.205	0.00	0.00
ATOM	6009	HA2	GLY	X	399	49.818	34.581	47.542	0.00	0.00
ATOM	6010	HA3	GLY	X	399	50.200	32.830	47.779	0.00	0.00
ATOM	6011	C	GLY	X	399	49.244	33.763	49.392	0.00	0.00
ATOM	6012	O	GLY	X	399	48.117	34.263	49.343	0.00	0.00
ATOM	6013	N	ASP	X	400	49.668	33.086	50.486	0.00	0.00
ATOM	6014	H	ASP	X	400	50.610	32.730	50.562	0.00	0.00
ATOM	6015	CA	ASP	X	400	48.857	32.799	51.648	0.00	0.00
ATOM	6016	HA	ASP	X	400	48.008	32.247	51.245	0.00	0.00
ATOM	6017	CB	ASP	X	400	49.563	31.943	52.706	0.00	0.00
ATOM	6018	HB2	ASP	X	400	50.580	32.331	52.648	0.00	0.00
ATOM	6019	HB3	ASP	X	400	49.185	32.151	53.707	0.00	0.00
ATOM	6020	CG	ASP	X	400	49.456	30.418	52.488	0.00	0.00
ATOM	6021	OD1	ASP	X	400	48.538	30.003	51.764	0.00	0.00
ATOM	6022	OD2	ASP	X	400	50.216	29.717	53.146	0.00	0.00
ATOM	6023	C	ASP	X	400	48.219	33.997	52.382	0.00	0.00
ATOM	6024	O	ASP	X	400	47.055	34.344	52.128	0.00	0.00
ATOM	6025	N	HIE	X	401	48.982	34.670	53.259	0.00	0.00
ATOM	6026	H	HIE	X	401	49.907	34.288	53.397	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.617	35.879	53.977	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.780	35.702	54.652	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.815	36.079	54.907	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.318	36.642	55.697	0.00	0.00
ATOM	6031	HB3	HIE	X	401	50.107	35.121	55.338	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.833	37.084	54.502	0.00	0.00
ATOM	6033	ND1	HIE	X	401	50.705	38.489	54.622	0.00	0.00
ATOM	6034	CE1	HIE	X	401	51.851	39.023	54.183	0.00	0.00
ATOM	6035	HE1	HIE	X	401	51.984	40.095	54.157	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.663	38.071	53.673	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.493	38.202	53.113	0.00	0.00
ATOM	6038	CD2	HIE	X	401	52.007	36.873	53.817	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.383	35.913	53.496	0.00	0.00
ATOM	6040	C	HIE	X	401	48.189	36.958	52.987	0.00	0.00
ATOM	6041	O	HIE	X	401	47.264	37.747	53.258	0.00	0.00
ATOM	6042	N	ASN	X	402	48.857	37.097	51.931	0.00	0.00
ATOM	6043	H	ASN	X	402	49.733	36.601	51.850	0.00	0.00
ATOM	6044	CA	ASN	X	402	48.529	38.107	50.935	0.00	0.00
ATOM	6045	HA	ASN	X	402	48.417	39.060	51.454	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.649	38.302	49.868	0.00	0.00
ATOM	6047	HB2	ASN	X	402	49.857	37.339	49.400	0.00	0.00
ATOM	6048	HB3	ASN	X	402	49.308	38.971	49.078	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.977	38.903	50.457	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.927	39.969	51.084	0.00	0.00
ATOM	6051	ND2	ASN	X	402	52.069	38.234	50.260	0.00	0.00
ATOM	6052	HD21	ASN	X	402	52.857	38.699	50.688	0.00	0.00
ATOM	6053	HD22	ASN	X	402	52.056	37.439	49.637	0.00	0.00
ATOM	6054	C	ASN	X	402	47.118	37.838	50.261	0.00	0.00
ATOM	6055	O	ASN	X	402	46.512	38.840	49.928	0.00	0.00
ATOM	6056	N	VAL	X	403	46.729	36.605	49.963	0.00	0.00
ATOM	6057	H	VAL	X	403	47.244	35.814	50.323	0.00	0.00
ATOM	6058	CA	VAL	X	403	45.475	36.363	49.132	0.00	0.00
ATOM	6059	HA	VAL	X	403	44.791	37.210	49.190	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.796	36.189	47.674	0.00	0.00
ATOM	6061	HB	VAL	X	403	46.491	35.384	47.434	0.00	0.00

ATOM	6062	CG1	VAL	X	403	44.568	35.987	46.826	0.00	0.00
ATOM	6063	HG11	VAL	X	403	43.762	36.617	47.203	0.00	0.00
ATOM	6064	HG12	VAL	X	403	44.710	36.234	45.774	0.00	0.00
ATOM	6065	HG13	VAL	X	403	44.367	34.920	46.919	0.00	0.00
ATOM	6066	CG2	VAL	X	403	46.345	37.481	47.065	0.00	0.00
ATOM	6067	HG21	VAL	X	403	45.608	38.245	47.312	0.00	0.00
ATOM	6068	HG22	VAL	X	403	46.469	37.446	45.983	0.00	0.00
ATOM	6069	HG23	VAL	X	403	47.270	37.733	47.585	0.00	0.00
ATOM	6070	C	VAL	X	403	44.732	35.102	49.653	0.00	0.00
ATOM	6071	O	VAL	X	403	43.566	35.212	50.026	0.00	0.00
ATOM	6072	N	VAL	X	404	45.340	33.876	49.687	0.00	0.00
ATOM	6073	H	VAL	X	404	46.277	33.879	49.309	0.00	0.00
ATOM	6074	CA	VAL	X	404	44.531	32.629	49.884	0.00	0.00
ATOM	6075	HA	VAL	X	404	43.787	32.499	49.098	0.00	0.00
ATOM	6076	CB	VAL	X	404	45.336	31.336	49.689	0.00	0.00
ATOM	6077	HB	VAL	X	404	46.156	31.350	50.407	0.00	0.00
ATOM	6078	CG1	VAL	X	404	44.380	30.093	49.865	0.00	0.00
ATOM	6079	HG11	VAL	X	404	44.170	29.893	50.916	0.00	0.00
ATOM	6080	HG12	VAL	X	404	43.425	30.274	49.372	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.951	29.260	49.455	0.00	0.00
ATOM	6082	CG2	VAL	X	404	46.045	31.345	48.309	0.00	0.00
ATOM	6083	HG21	VAL	X	404	46.275	32.298	47.834	0.00	0.00
ATOM	6084	HG22	VAL	X	404	45.329	30.791	47.702	0.00	0.00
ATOM	6085	HG23	VAL	X	404	47.031	30.880	48.334	0.00	0.00
ATOM	6086	C	VAL	X	404	43.830	32.666	51.271	0.00	0.00
ATOM	6087	O	VAL	X	404	42.680	32.271	51.337	0.00	0.00
ATOM	6088	N	CYX	X	405	44.560	32.978	52.389	0.00	0.00
ATOM	6089	H	CYX	X	405	45.553	33.151	52.319	0.00	0.00
ATOM	6090	CA	CYX	X	405	44.004	33.100	53.698	0.00	0.00
ATOM	6091	HA	CYX	X	405	43.483	32.151	53.828	0.00	0.00
ATOM	6092	CB	CYX	X	405	45.097	33.182	54.774	0.00	0.00
ATOM	6093	HB2	CYX	X	405	45.638	34.128	54.761	0.00	0.00
ATOM	6094	HB3	CYX	X	405	44.533	33.099	55.703	0.00	0.00
ATOM	6095	SG	CYX	X	405	46.255	31.748	54.775	0.00	0.00
ATOM	6096	C	CYX	X	405	42.902	34.112	53.904	0.00	0.00
ATOM	6097	O	CYX	X	405	41.939	33.707	54.566	0.00	0.00
ATOM	6098	N	PRO	X	406	42.966	35.377	53.477	0.00	0.00
ATOM	6099	CD	PRO	X	406	44.227	36.065	53.125	0.00	0.00
ATOM	6100	HD2	PRO	X	406	44.506	35.723	52.128	0.00	0.00
ATOM	6101	HD3	PRO	X	406	44.992	35.971	53.895	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.920	37.510	52.867	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.350	37.843	51.922	0.00	0.00
ATOM	6104	HG3	PRO	X	406	44.318	38.112	53.684	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.374	37.588	52.833	0.00	0.00
ATOM	6106	HB2	PRO	X	406	42.027	37.643	51.801	0.00	0.00
ATOM	6107	HB3	PRO	X	406	41.987	38.472	53.340	0.00	0.00
ATOM	6108	CA	PRO	X	406	41.855	36.317	53.386	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.564	36.453	54.428	0.00	0.00
ATOM	6110	C	PRO	X	406	40.673	35.813	52.578	0.00	0.00
ATOM	6111	O	PRO	X	406	39.539	35.930	53.069	0.00	0.00
ATOM	6112	N	VAL	X	407	40.879	35.145	51.418	0.00	0.00
ATOM	6113	H	VAL	X	407	41.818	35.026	51.066	0.00	0.00
ATOM	6114	CA	VAL	X	407	39.745	34.513	50.719	0.00	0.00
ATOM	6115	HA	VAL	X	407	39.022	35.294	50.484	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.236	33.946	49.255	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.193	33.435	49.369	0.00	0.00
ATOM	6118	CG1	VAL	X	407	39.092	33.140	48.573	0.00	0.00
ATOM	6119	HG11	VAL	X	407	39.358	32.793	47.574	0.00	0.00
ATOM	6120	HG12	VAL	X	407	38.951	32.295	49.246	0.00	0.00
ATOM	6121	HG13	VAL	X	407	38.182	33.703	48.367	0.00	0.00
ATOM	6122	CG2	VAL	X	407	40.285	35.169	48.273	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.431	35.789	48.547	0.00	0.00
ATOM	6124	HG22	VAL	X	407	40.340	34.892	47.221	0.00	0.00
ATOM	6125	HG23	VAL	X	407	41.166	35.784	48.457	0.00	0.00
ATOM	6126	C	VAL	X	407	38.959	33.521	51.481	0.00	0.00
ATOM	6127	O	VAL	X	407	37.721	33.487	51.568	0.00	0.00
ATOM	6128	N	ALA	X	408	39.665	32.779	52.294	0.00	0.00

ATOM	6129	H	ALA	X	408	40.674	32.784	52.263	0.00	0.00
ATOM	6130	CA	ALA	X	408	39.056	31.811	53.223	0.00	0.00
ATOM	6131	HA	ALA	X	408	38.389	31.189	52.626	0.00	0.00
ATOM	6132	CB	ALA	X	408	40.272	30.958	53.558	0.00	0.00
ATOM	6133	HB1	ALA	X	408	40.760	30.593	52.654	0.00	0.00
ATOM	6134	HB2	ALA	X	408	39.964	29.986	53.942	0.00	0.00
ATOM	6135	HB3	ALA	X	408	40.992	31.403	54.244	0.00	0.00
ATOM	6136	C	ALA	X	408	38.352	32.403	54.498	0.00	0.00
ATOM	6137	O	ALA	X	408	37.259	31.895	54.827	0.00	0.00
ATOM	6138	N	GLN	X	409	38.961	33.497	55.062	0.00	0.00
ATOM	6139	H	GLN	X	409	39.852	33.756	54.662	0.00	0.00
ATOM	6140	CA	GLN	X	409	38.260	34.332	56.042	0.00	0.00
ATOM	6141	HA	GLN	X	409	37.906	33.713	56.866	0.00	0.00
ATOM	6142	CB	GLN	X	409	39.276	35.263	56.585	0.00	0.00
ATOM	6143	HB2	GLN	X	409	40.040	34.656	57.071	0.00	0.00
ATOM	6144	HB3	GLN	X	409	39.737	35.881	55.814	0.00	0.00
ATOM	6145	CG	GLN	X	409	38.725	36.151	57.741	0.00	0.00
ATOM	6146	HG2	GLN	X	409	39.359	37.027	57.877	0.00	0.00
ATOM	6147	HG3	GLN	X	409	37.734	36.493	57.441	0.00	0.00
ATOM	6148	CD	GLN	X	409	38.673	35.506	59.172	0.00	0.00
ATOM	6149	OE1	GLN	X	409	37.600	35.049	59.572	0.00	0.00
ATOM	6150	NE2	GLN	X	409	39.793	35.339	59.897	0.00	0.00
ATOM	6151	HE21	GLN	X	409	39.715	35.145	60.885	0.00	0.00
ATOM	6152	HE22	GLN	X	409	40.630	35.776	59.537	0.00	0.00
ATOM	6153	C	GLN	X	409	36.960	35.012	55.494	0.00	0.00
ATOM	6154	O	GLN	X	409	35.978	35.109	56.177	0.00	0.00
ATOM	6155	N	LEU	X	410	36.991	35.349	54.222	0.00	0.00
ATOM	6156	H	LEU	X	410	37.859	35.108	53.764	0.00	0.00
ATOM	6157	CA	LEU	X	410	35.966	36.142	53.503	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.723	37.014	54.111	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.523	36.680	52.174	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.348	37.358	52.392	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.001	35.840	51.670	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.507	37.429	51.239	0.00	0.00
ATOM	6163	HG	LEU	X	410	34.680	36.733	51.104	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.035	38.722	51.855	0.00	0.00
ATOM	6165	HD11	LEU	X	410	35.848	39.392	52.136	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.479	38.605	52.786	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.359	39.216	51.157	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.255	37.774	49.908	0.00	0.00
ATOM	6169	HD21	LEU	X	410	35.556	38.243	49.216	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.143	38.385	50.075	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.690	36.844	49.542	0.00	0.00
ATOM	6172	C	LEU	X	410	34.841	35.241	53.216	0.00	0.00
ATOM	6173	O	LEU	X	410	33.682	35.557	53.516	0.00	0.00
ATOM	6174	N	ALA	X	411	35.088	34.058	52.657	0.00	0.00
ATOM	6175	H	ALA	X	411	36.026	33.965	52.295	0.00	0.00
ATOM	6176	CA	ALA	X	411	34.181	32.899	52.579	0.00	0.00
ATOM	6177	HA	ALA	X	411	33.272	33.135	52.025	0.00	0.00
ATOM	6178	CB	ALA	X	411	34.896	31.719	51.868	0.00	0.00
ATOM	6179	HB1	ALA	X	411	35.884	31.547	52.295	0.00	0.00
ATOM	6180	HB2	ALA	X	411	34.838	31.979	50.811	0.00	0.00
ATOM	6181	HB3	ALA	X	411	34.267	30.836	51.979	0.00	0.00
ATOM	6182	C	ALA	X	411	33.550	32.594	53.906	0.00	0.00
ATOM	6183	O	ALA	X	411	32.303	32.584	53.958	0.00	0.00
ATOM	6184	N	GLY	X	412	34.372	32.312	54.938	0.00	0.00
ATOM	6185	H	GLY	X	412	35.348	32.374	54.682	0.00	0.00
ATOM	6186	CA	GLY	X	412	34.084	32.004	56.332	0.00	0.00
ATOM	6187	HA2	GLY	X	412	33.545	31.059	56.409	0.00	0.00
ATOM	6188	HA3	GLY	X	412	35.047	31.897	56.831	0.00	0.00
ATOM	6189	C	GLY	X	412	33.175	33.027	56.971	0.00	0.00
ATOM	6190	O	GLY	X	412	32.013	32.637	57.175	0.00	0.00
ATOM	6191	N	ARG	X	413	33.484	34.329	57.050	0.00	0.00
ATOM	6192	H	ARG	X	413	34.415	34.594	56.761	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.699	35.438	57.504	0.00	0.00
ATOM	6194	HA	ARG	X	413	32.410	35.301	58.545	0.00	0.00
ATOM	6195	CB	ARG	X	413	33.536	36.811	57.369	0.00	0.00

ATOM	6196	HB2	ARG	X	413	33.989	36.859	56.378	0.00	0.00
ATOM	6197	HB3	ARG	X	413	33.003	37.737	57.585	0.00	0.00
ATOM	6198	CG	ARG	X	413	34.680	36.752	58.388	0.00	0.00
ATOM	6199	HG2	ARG	X	413	35.202	35.800	58.291	0.00	0.00
ATOM	6200	HG3	ARG	X	413	35.348	37.554	58.075	0.00	0.00
ATOM	6201	CD	ARG	X	413	34.108	36.998	59.770	0.00	0.00
ATOM	6202	HD2	ARG	X	413	33.379	37.805	59.709	0.00	0.00
ATOM	6203	HD3	ARG	X	413	33.485	36.178	60.126	0.00	0.00
ATOM	6204	NE	ARG	X	413	35.228	37.364	60.733	0.00	0.00
ATOM	6205	HE	ARG	X	413	35.938	37.961	60.334	0.00	0.00
ATOM	6206	CZ	ARG	X	413	35.456	36.706	61.847	0.00	0.00
ATOM	6207	NH1	ARG	X	413	34.491	36.230	62.595	0.00	0.00
ATOM	6208	HH11	ARG	X	413	33.527	36.077	62.334	0.00	0.00
ATOM	6209	HH12	ARG	X	413	34.785	35.881	63.496	0.00	0.00
ATOM	6210	NH2	ARG	X	413	36.591	36.819	62.416	0.00	0.00
ATOM	6211	HH21	ARG	X	413	37.330	37.295	61.918	0.00	0.00
ATOM	6212	HH22	ARG	X	413	36.674	36.614	63.402	0.00	0.00
ATOM	6213	C	ARG	X	413	31.341	35.596	56.720	0.00	0.00
ATOM	6214	O	ARG	X	413	30.336	35.730	57.435	0.00	0.00
ATOM	6215	N	LEU	X	414	31.379	35.480	55.404	0.00	0.00
ATOM	6216	H	LEU	X	414	32.295	35.329	55.006	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.145	35.713	54.642	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.750	36.670	54.986	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.484	35.811	53.147	0.00	0.00
ATOM	6220	HB2	LEU	X	414	31.207	35.041	52.880	0.00	0.00
ATOM	6221	HB3	LEU	X	414	29.577	35.668	52.560	0.00	0.00
ATOM	6222	CG	LEU	X	414	31.053	37.198	52.834	0.00	0.00
ATOM	6223	HG	LEU	X	414	31.981	37.411	53.364	0.00	0.00
ATOM	6224	CD1	LEU	X	414	31.542	37.222	51.394	0.00	0.00
ATOM	6225	HD11	LEU	X	414	30.790	37.600	50.701	0.00	0.00
ATOM	6226	HD12	LEU	X	414	31.802	36.204	51.104	0.00	0.00
ATOM	6227	HD13	LEU	X	414	32.412	37.869	51.278	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.107	38.437	52.956	0.00	0.00
ATOM	6229	HD21	LEU	X	414	29.858	38.809	53.950	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.578	39.285	52.460	0.00	0.00
ATOM	6231	HD23	LEU	X	414	29.189	38.202	52.416	0.00	0.00
ATOM	6232	C	LEU	X	414	29.182	34.480	54.864	0.00	0.00
ATOM	6233	O	LEU	X	414	27.990	34.629	55.203	0.00	0.00
ATOM	6234	N	ALA	X	415	29.639	33.182	54.831	0.00	0.00
ATOM	6235	H	ALA	X	415	30.619	33.195	54.586	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.941	31.953	55.193	0.00	0.00
ATOM	6237	HA	ALA	X	415	28.009	31.744	54.669	0.00	0.00
ATOM	6238	CB	ALA	X	415	29.979	30.776	54.919	0.00	0.00
ATOM	6239	HB1	ALA	X	415	30.418	30.812	53.922	0.00	0.00
ATOM	6240	HB2	ALA	X	415	29.447	29.827	54.979	0.00	0.00
ATOM	6241	HB3	ALA	X	415	30.755	30.850	55.681	0.00	0.00
ATOM	6242	C	ALA	X	415	28.459	31.901	56.638	0.00	0.00
ATOM	6243	O	ALA	X	415	27.464	31.180	56.900	0.00	0.00
ATOM	6244	N	ALA	X	416	29.018	32.781	57.583	0.00	0.00
ATOM	6245	H	ALA	X	416	29.798	33.323	57.240	0.00	0.00
ATOM	6246	CA	ALA	X	416	28.530	32.901	58.947	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.834	32.071	59.068	0.00	0.00
ATOM	6248	CB	ALA	X	416	29.751	32.792	59.858	0.00	0.00
ATOM	6249	HB1	ALA	X	416	30.576	33.470	59.637	0.00	0.00
ATOM	6250	HB2	ALA	X	416	30.176	31.790	59.803	0.00	0.00
ATOM	6251	HB3	ALA	X	416	29.464	32.975	60.893	0.00	0.00
ATOM	6252	C	ALA	X	416	27.691	34.125	59.162	0.00	0.00
ATOM	6253	O	ALA	X	416	26.963	34.122	60.182	0.00	0.00
ATOM	6254	N	GLN	X	417	27.753	35.162	58.286	0.00	0.00
ATOM	6255	H	GLN	X	417	28.373	35.150	57.489	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.876	36.361	58.394	0.00	0.00
ATOM	6257	HA	GLN	X	417	26.542	36.495	59.422	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.695	37.657	58.040	0.00	0.00
ATOM	6259	HB2	GLN	X	417	28.414	37.393	57.265	0.00	0.00
ATOM	6260	HB3	GLN	X	417	27.009	38.388	57.612	0.00	0.00
ATOM	6261	CG	GLN	X	417	28.367	38.343	59.167	0.00	0.00
ATOM	6262	HG2	GLN	X	417	28.622	39.362	58.878	0.00	0.00

ATOM	6263	HG3	GLN	X	417	27.717	38.691	59.970	0.00	0.00
ATOM	6264	CD	GLN	X	417	29.564	37.632	59.849	0.00	0.00
ATOM	6265	OE1	GLN	X	417	29.312	36.592	60.448	0.00	0.00
ATOM	6266	NE2	GLN	X	417	30.801	38.146	59.968	0.00	0.00
ATOM	6267	HE21	GLN	X	417	31.438	37.539	60.465	0.00	0.00
ATOM	6268	HE22	GLN	X	417	31.073	38.836	59.282	0.00	0.00
ATOM	6269	C	GLN	X	417	25.610	36.232	57.528	0.00	0.00
ATOM	6270	O	GLN	X	417	24.741	37.094	57.345	0.00	0.00
ATOM	6271	N	GLY	X	418	25.509	35.093	56.828	0.00	0.00
ATOM	6272	H	GLY	X	418	26.294	34.460	56.771	0.00	0.00
ATOM	6273	CA	GLY	X	418	24.234	34.813	56.043	0.00	0.00
ATOM	6274	HA2	GLY	X	418	24.050	33.788	56.366	0.00	0.00
ATOM	6275	HA3	GLY	X	418	23.486	35.537	56.365	0.00	0.00
ATOM	6276	C	GLY	X	418	24.166	34.925	54.563	0.00	0.00
ATOM	6277	O	GLY	X	418	23.133	34.957	53.989	0.00	0.00
ATOM	6278	N	ALA	X	419	25.388	34.898	53.962	0.00	0.00
ATOM	6279	H	ALA	X	419	26.214	34.839	54.539	0.00	0.00
ATOM	6280	CA	ALA	X	419	25.406	34.764	52.511	0.00	0.00
ATOM	6281	HA	ALA	X	419	24.502	35.231	52.121	0.00	0.00
ATOM	6282	CB	ALA	X	419	26.610	35.652	52.055	0.00	0.00
ATOM	6283	HB1	ALA	X	419	26.859	35.500	51.004	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.487	35.370	52.638	0.00	0.00
ATOM	6285	HB3	ALA	X	419	26.468	36.700	52.317	0.00	0.00
ATOM	6286	C	ALA	X	419	25.450	33.381	51.896	0.00	0.00
ATOM	6287	O	ALA	X	419	26.043	32.484	52.511	0.00	0.00
ATOM	6288	N	ARG	X	420	24.977	33.199	50.649	0.00	0.00
ATOM	6289	H	ARG	X	420	24.559	34.006	50.209	0.00	0.00
ATOM	6290	CA	ARG	X	420	25.331	32.040	49.753	0.00	0.00
ATOM	6291	HA	ARG	X	420	25.490	31.154	50.367	0.00	0.00
ATOM	6292	CB	ARG	X	420	24.101	31.780	48.868	0.00	0.00
ATOM	6293	HB2	ARG	X	420	23.252	31.939	49.532	0.00	0.00
ATOM	6294	HB3	ARG	X	420	24.045	32.521	48.070	0.00	0.00
ATOM	6295	CG	ARG	X	420	24.014	30.360	48.198	0.00	0.00
ATOM	6296	HG2	ARG	X	420	23.239	30.469	47.439	0.00	0.00
ATOM	6297	HG3	ARG	X	420	24.961	30.123	47.713	0.00	0.00
ATOM	6298	CD	ARG	X	420	23.671	29.262	49.268	0.00	0.00
ATOM	6299	HD2	ARG	X	420	24.578	29.022	49.823	0.00	0.00
ATOM	6300	HD3	ARG	X	420	22.900	29.616	49.953	0.00	0.00
ATOM	6301	NE	ARG	X	420	23.146	28.028	48.625	0.00	0.00
ATOM	6302	HE	ARG	X	420	23.070	28.060	47.618	0.00	0.00
ATOM	6303	CZ	ARG	X	420	22.687	26.874	49.191	0.00	0.00
ATOM	6304	NH1	ARG	X	420	22.625	26.749	50.512	0.00	0.00
ATOM	6305	HH11	ARG	X	420	23.097	27.349	51.173	0.00	0.00
ATOM	6306	HH12	ARG	X	420	22.126	25.936	50.845	0.00	0.00
ATOM	6307	NH2	ARG	X	420	22.187	25.944	48.408	0.00	0.00
ATOM	6308	HH21	ARG	X	420	22.400	26.067	47.429	0.00	0.00
ATOM	6309	HH22	ARG	X	420	21.730	25.104	48.732	0.00	0.00
ATOM	6310	C	ARG	X	420	26.669	32.218	48.924	0.00	0.00
ATOM	6311	O	ARG	X	420	26.787	33.146	48.098	0.00	0.00
ATOM	6312	N	VAL	X	421	27.700	31.547	49.383	0.00	0.00
ATOM	6313	H	VAL	X	421	27.461	30.861	50.085	0.00	0.00
ATOM	6314	CA	VAL	X	421	29.147	31.632	48.989	0.00	0.00
ATOM	6315	HA	VAL	X	421	29.371	32.458	48.314	0.00	0.00
ATOM	6316	CB	VAL	X	421	29.945	31.860	50.298	0.00	0.00
ATOM	6317	HB	VAL	X	421	29.712	31.021	50.954	0.00	0.00
ATOM	6318	CG1	VAL	X	421	31.429	31.898	50.111	0.00	0.00
ATOM	6319	HG11	VAL	X	421	31.857	32.007	51.108	0.00	0.00
ATOM	6320	HG12	VAL	X	421	31.809	31.000	49.623	0.00	0.00
ATOM	6321	HG13	VAL	X	421	31.679	32.707	49.425	0.00	0.00
ATOM	6322	CG2	VAL	X	421	29.493	33.069	51.104	0.00	0.00
ATOM	6323	HG21	VAL	X	421	28.498	32.786	51.449	0.00	0.00
ATOM	6324	HG22	VAL	X	421	29.463	33.965	50.485	0.00	0.00
ATOM	6325	HG23	VAL	X	421	30.122	33.193	51.986	0.00	0.00
ATOM	6326	C	VAL	X	421	29.563	30.318	48.272	0.00	0.00
ATOM	6327	O	VAL	X	421	28.968	29.241	48.541	0.00	0.00
ATOM	6328	N	TYR	X	422	30.461	30.434	47.275	0.00	0.00
ATOM	6329	H	TYR	X	422	30.735	31.357	46.968	0.00	0.00

ATOM	6330	CA	TYR	X	422	30.960	29.338	46.392	0.00	0.00
ATOM	6331	HA	TYR	X	422	30.711	28.351	46.783	0.00	0.00
ATOM	6332	CB	TYR	X	422	30.224	29.444	45.033	0.00	0.00
ATOM	6333	HB2	TYR	X	422	30.273	30.491	44.736	0.00	0.00
ATOM	6334	HB3	TYR	X	422	30.842	28.924	44.301	0.00	0.00
ATOM	6335	CG	TYR	X	422	28.782	28.972	45.052	0.00	0.00
ATOM	6336	CD1	TYR	X	422	28.479	27.629	45.313	0.00	0.00
ATOM	6337	HD1	TYR	X	422	29.293	26.926	45.414	0.00	0.00
ATOM	6338	CE1	TYR	X	422	27.135	27.154	45.344	0.00	0.00
ATOM	6339	HE1	TYR	X	422	26.868	26.114	45.459	0.00	0.00
ATOM	6340	CZ	TYR	X	422	26.082	28.074	45.196	0.00	0.00
ATOM	6341	OH	TYR	X	422	24.728	27.649	45.251	0.00	0.00
ATOM	6342	HH	TYR	X	422	24.493	26.723	45.338	0.00	0.00
ATOM	6343	CE2	TYR	X	422	26.420	29.465	45.039	0.00	0.00
ATOM	6344	HE2	TYR	X	422	25.602	30.169	45.054	0.00	0.00
ATOM	6345	CD2	TYR	X	422	27.770	29.884	44.921	0.00	0.00
ATOM	6346	HD2	TYR	X	422	27.942	30.896	44.584	0.00	0.00
ATOM	6347	C	TYR	X	422	32.479	29.618	46.145	0.00	0.00
ATOM	6348	O	TYR	X	422	32.816	30.714	45.645	0.00	0.00
ATOM	6349	N	ALA	X	423	33.331	28.656	46.450	0.00	0.00
ATOM	6350	H	ALA	X	423	32.919	27.764	46.684	0.00	0.00
ATOM	6351	CA	ALA	X	423	34.781	28.715	46.476	0.00	0.00
ATOM	6352	HA	ALA	X	423	35.226	29.678	46.225	0.00	0.00
ATOM	6353	CB	ALA	X	423	35.110	28.288	47.909	0.00	0.00
ATOM	6354	HB1	ALA	X	423	34.495	27.448	48.233	0.00	0.00
ATOM	6355	HB2	ALA	X	423	34.866	29.062	48.637	0.00	0.00
ATOM	6356	HB3	ALA	X	423	36.164	28.089	48.099	0.00	0.00
ATOM	6357	C	ALA	X	423	35.468	27.688	45.577	0.00	0.00
ATOM	6358	O	ALA	X	423	35.108	26.507	45.488	0.00	0.00
ATOM	6359	N	TYR	X	424	36.516	28.095	44.857	0.00	0.00
ATOM	6360	H	TYR	X	424	36.762	29.071	44.933	0.00	0.00
ATOM	6361	CA	TYR	X	424	37.375	27.303	43.976	0.00	0.00
ATOM	6362	HA	TYR	X	424	37.244	26.251	44.232	0.00	0.00
ATOM	6363	CB	TYR	X	424	37.033	27.464	42.468	0.00	0.00
ATOM	6364	HB2	TYR	X	424	37.443	26.611	41.927	0.00	0.00
ATOM	6365	HB3	TYR	X	424	35.957	27.438	42.300	0.00	0.00
ATOM	6366	CG	TYR	X	424	37.588	28.768	41.920	0.00	0.00
ATOM	6367	CD1	TYR	X	424	38.869	28.762	41.338	0.00	0.00
ATOM	6368	HD1	TYR	X	424	39.432	27.844	41.255	0.00	0.00
ATOM	6369	CE1	TYR	X	424	39.488	29.995	40.916	0.00	0.00
ATOM	6370	HE1	TYR	X	424	40.500	30.036	40.542	0.00	0.00
ATOM	6371	CZ	TYR	X	424	38.682	31.179	41.018	0.00	0.00
ATOM	6372	OH	TYR	X	424	39.230	32.436	40.704	0.00	0.00
ATOM	6373	HH	TYR	X	424	40.119	32.310	40.366	0.00	0.00
ATOM	6374	CE2	TYR	X	424	37.394	31.149	41.553	0.00	0.00
ATOM	6375	HE2	TYR	X	424	36.817	32.060	41.511	0.00	0.00
ATOM	6376	CD2	TYR	X	424	36.871	29.937	41.955	0.00	0.00
ATOM	6377	HD2	TYR	X	424	35.831	29.808	42.217	0.00	0.00
ATOM	6378	C	TYR	X	424	38.900	27.477	44.151	0.00	0.00
ATOM	6379	O	TYR	X	424	39.329	28.559	44.420	0.00	0.00
ATOM	6380	N	VAL	X	425	39.670	26.370	44.066	0.00	0.00
ATOM	6381	H	VAL	X	425	39.222	25.467	44.007	0.00	0.00
ATOM	6382	CA	VAL	X	425	41.104	26.468	43.800	0.00	0.00
ATOM	6383	HA	VAL	X	425	41.505	27.477	43.899	0.00	0.00
ATOM	6384	CB	VAL	X	425	41.823	25.649	44.909	0.00	0.00
ATOM	6385	HB	VAL	X	425	41.532	24.610	44.753	0.00	0.00
ATOM	6386	CG1	VAL	X	425	43.305	25.743	44.739	0.00	0.00
ATOM	6387	HG11	VAL	X	425	43.563	25.350	43.756	0.00	0.00
ATOM	6388	HG12	VAL	X	425	43.728	26.747	44.779	0.00	0.00
ATOM	6389	HG13	VAL	X	425	43.808	25.041	45.404	0.00	0.00
ATOM	6390	CG2	VAL	X	425	41.534	25.977	46.376	0.00	0.00
ATOM	6391	HG21	VAL	X	425	40.469	26.164	46.517	0.00	0.00
ATOM	6392	HG22	VAL	X	425	41.814	26.998	46.636	0.00	0.00
ATOM	6393	HG23	VAL	X	425	41.772	25.205	47.108	0.00	0.00
ATOM	6394	C	VAL	X	425	41.416	25.878	42.398	0.00	0.00
ATOM	6395	O	VAL	X	425	40.884	24.852	42.159	0.00	0.00
ATOM	6396	N	PHE	X	426	42.194	26.480	41.574	0.00	0.00

ATOM	6397	H	PHE	X	426	42.595	27.365	41.849	0.00	0.00
ATOM	6398	CA	PHE	X	426	42.330	26.158	40.109	0.00	0.00
ATOM	6399	HA	PHE	X	426	41.636	25.355	39.862	0.00	0.00
ATOM	6400	CB	PHE	X	426	42.093	27.515	39.311	0.00	0.00
ATOM	6401	HB2	PHE	X	426	41.040	27.752	39.465	0.00	0.00
ATOM	6402	HB3	PHE	X	426	42.733	28.334	39.639	0.00	0.00
ATOM	6403	CG	PHE	X	426	42.270	27.236	37.851	0.00	0.00
ATOM	6404	CD1	PHE	X	426	41.212	26.889	36.986	0.00	0.00
ATOM	6405	HD1	PHE	X	426	40.256	26.624	37.414	0.00	0.00
ATOM	6406	CE1	PHE	X	426	41.442	26.912	35.625	0.00	0.00
ATOM	6407	HE1	PHE	X	426	40.673	26.573	34.948	0.00	0.00
ATOM	6408	CZ	PHE	X	426	42.733	27.179	35.120	0.00	0.00
ATOM	6409	HZ	PHE	X	426	42.989	27.013	34.084	0.00	0.00
ATOM	6410	CE2	PHE	X	426	43.747	27.607	35.924	0.00	0.00
ATOM	6411	HE2	PHE	X	426	44.761	27.706	35.567	0.00	0.00
ATOM	6412	CD2	PHE	X	426	43.513	27.662	37.291	0.00	0.00
ATOM	6413	HD2	PHE	X	426	44.332	28.000	37.909	0.00	0.00
ATOM	6414	C	PHE	X	426	43.715	25.510	39.789	0.00	0.00
ATOM	6415	O	PHE	X	426	44.744	26.151	39.976	0.00	0.00
ATOM	6416	N	GLU	X	427	43.720	24.279	39.314	0.00	0.00
ATOM	6417	H	GLU	X	427	42.842	23.899	38.990	0.00	0.00
ATOM	6418	CA	GLU	X	427	44.957	23.469	39.223	0.00	0.00
ATOM	6419	HA	GLU	X	427	45.672	23.902	39.922	0.00	0.00
ATOM	6420	CB	GLU	X	427	44.653	21.988	39.572	0.00	0.00
ATOM	6421	HB2	GLU	X	427	44.001	21.508	38.843	0.00	0.00
ATOM	6422	HB3	GLU	X	427	45.603	21.468	39.693	0.00	0.00
ATOM	6423	CG	GLU	X	427	43.926	21.940	40.854	0.00	0.00
ATOM	6424	HG2	GLU	X	427	44.178	22.817	41.449	0.00	0.00
ATOM	6425	HG3	GLU	X	427	42.871	22.004	40.585	0.00	0.00
ATOM	6426	CD	GLU	X	427	44.292	20.675	41.707	0.00	0.00
ATOM	6427	OE1	GLU	X	427	45.107	20.854	42.646	0.00	0.00
ATOM	6428	OE2	GLU	X	427	43.790	19.577	41.432	0.00	0.00
ATOM	6429	C	GLU	X	427	45.684	23.502	37.889	0.00	0.00
ATOM	6430	O	GLU	X	427	46.753	23.009	37.795	0.00	0.00
ATOM	6431	N	HIE	X	428	45.043	23.904	36.812	0.00	0.00
ATOM	6432	H	HIE	X	428	44.137	24.347	36.863	0.00	0.00
ATOM	6433	CA	HIE	X	428	45.586	23.663	35.473	0.00	0.00
ATOM	6434	HA	HIE	X	428	46.266	22.813	35.525	0.00	0.00
ATOM	6435	CB	HIE	X	428	44.463	23.305	34.468	0.00	0.00
ATOM	6436	HB2	HIE	X	428	43.840	22.507	34.872	0.00	0.00
ATOM	6437	HB3	HIE	X	428	43.772	24.143	34.383	0.00	0.00
ATOM	6438	CG	HIE	X	428	45.098	22.882	33.156	0.00	0.00
ATOM	6439	ND1	HIE	X	428	45.654	21.660	33.010	0.00	0.00
ATOM	6440	CE1	HIE	X	428	46.078	21.677	31.739	0.00	0.00
ATOM	6441	HE1	HIE	X	428	46.511	20.838	31.215	0.00	0.00
ATOM	6442	NE2	HIE	X	428	45.918	22.861	31.122	0.00	0.00
ATOM	6443	HE2	HIE	X	428	46.274	23.117	30.212	0.00	0.00
ATOM	6444	CD2	HIE	X	428	45.274	23.684	31.989	0.00	0.00
ATOM	6445	HD2	HIE	X	428	44.963	24.716	31.921	0.00	0.00
ATOM	6446	C	HIE	X	428	46.423	24.806	34.905	0.00	0.00
ATOM	6447	O	HIE	X	428	45.880	25.882	34.700	0.00	0.00
ATOM	6448	N	ARG	X	429	47.701	24.590	34.607	0.00	0.00
ATOM	6449	H	ARG	X	429	47.998	23.632	34.728	0.00	0.00
ATOM	6450	CA	ARG	X	429	48.551	25.551	33.937	0.00	0.00
ATOM	6451	HA	ARG	X	429	48.375	26.559	34.311	0.00	0.00
ATOM	6452	CB	ARG	X	429	50.044	25.243	34.424	0.00	0.00
ATOM	6453	HB2	ARG	X	429	50.031	25.229	35.514	0.00	0.00
ATOM	6454	HB3	ARG	X	429	50.267	24.238	34.065	0.00	0.00
ATOM	6455	CG	ARG	X	429	51.149	26.150	33.838	0.00	0.00
ATOM	6456	HG2	ARG	X	429	50.996	26.278	32.766	0.00	0.00
ATOM	6457	HG3	ARG	X	429	51.034	27.088	34.382	0.00	0.00
ATOM	6458	CD	ARG	X	429	52.596	25.637	34.045	0.00	0.00
ATOM	6459	HD2	ARG	X	429	52.911	25.595	35.087	0.00	0.00
ATOM	6460	HD3	ARG	X	429	52.661	24.603	33.705	0.00	0.00
ATOM	6461	NE	ARG	X	429	53.526	26.408	33.201	0.00	0.00
ATOM	6462	HE	ARG	X	429	53.807	27.264	33.658	0.00	0.00
ATOM	6463	CZ	ARG	X	429	53.823	26.228	31.917	0.00	0.00

ATOM	6464	NH1	ARG	X	429	53.399	25.221	31.189	0.00	0.00
ATOM	6465	HH11	ARG	X	429	52.860	24.521	31.678	0.00	0.00
ATOM	6466	HH12	ARG	X	429	53.637	25.233	30.208	0.00	0.00
ATOM	6467	NH2	ARG	X	429	54.569	27.122	31.244	0.00	0.00
ATOM	6468	HH21	ARG	X	429	55.006	27.882	31.747	0.00	0.00
ATOM	6469	HH22	ARG	X	429	54.632	27.148	30.237	0.00	0.00
ATOM	6470	C	ARG	X	429	48.477	25.450	32.368	0.00	0.00
ATOM	6471	O	ARG	X	429	48.775	24.361	31.811	0.00	0.00
ATOM	6472	N	ALA	X	430	48.012	26.489	31.736	0.00	0.00
ATOM	6473	H	ALA	X	430	47.716	27.262	32.316	0.00	0.00
ATOM	6474	CA	ALA	X	430	47.723	26.578	30.297	0.00	0.00
ATOM	6475	HA	ALA	X	430	46.806	26.032	30.072	0.00	0.00
ATOM	6476	CB	ALA	X	430	47.480	28.055	29.908	0.00	0.00
ATOM	6477	HB1	ALA	X	430	46.993	28.116	28.935	0.00	0.00
ATOM	6478	HB2	ALA	X	430	48.484	28.470	29.813	0.00	0.00
ATOM	6479	HB3	ALA	X	430	46.883	28.602	30.638	0.00	0.00
ATOM	6480	C	ALA	X	430	48.979	26.032	29.470	0.00	0.00
ATOM	6481	O	ALA	X	430	50.141	26.348	29.793	0.00	0.00
ATOM	6482	N	SER	X	431	48.701	25.248	28.446	0.00	0.00
ATOM	6483	H	SER	X	431	47.746	24.919	28.431	0.00	0.00
ATOM	6484	CA	SER	X	431	49.700	24.637	27.562	0.00	0.00
ATOM	6485	HA	SER	X	431	50.388	24.091	28.208	0.00	0.00
ATOM	6486	CB	SER	X	431	49.054	23.633	26.569	0.00	0.00
ATOM	6487	HB2	SER	X	431	49.860	23.229	25.956	0.00	0.00
ATOM	6488	HB3	SER	X	431	48.455	22.863	27.055	0.00	0.00
ATOM	6489	OG	SER	X	431	48.207	24.316	25.656	0.00	0.00
ATOM	6490	HG	SER	X	431	47.293	24.178	25.916	0.00	0.00
ATOM	6491	C	SER	X	431	50.437	25.774	26.779	0.00	0.00
ATOM	6492	O	SER	X	431	51.555	25.630	26.331	0.00	0.00
ATOM	6493	N	THR	X	432	49.769	26.900	26.625	0.00	0.00
ATOM	6494	H	THR	X	432	48.845	26.885	27.034	0.00	0.00
ATOM	6495	CA	THR	X	432	50.273	28.200	26.051	0.00	0.00
ATOM	6496	HA	THR	X	432	51.136	27.912	25.451	0.00	0.00
ATOM	6497	CB	THR	X	432	49.105	28.898	25.319	0.00	0.00
ATOM	6498	HB	THR	X	432	49.445	29.898	25.050	0.00	0.00
ATOM	6499	CG2	THR	X	432	48.578	28.111	24.121	0.00	0.00
ATOM	6500	HG21	THR	X	432	49.396	28.012	23.408	0.00	0.00
ATOM	6501	HG22	THR	X	432	47.706	28.596	23.681	0.00	0.00
ATOM	6502	HG23	THR	X	432	48.212	27.178	24.549	0.00	0.00
ATOM	6503	OG1	THR	X	432	48.035	28.981	26.236	0.00	0.00
ATOM	6504	HG1	THR	X	432	47.272	28.718	25.715	0.00	0.00
ATOM	6505	C	THR	X	432	50.962	29.140	27.046	0.00	0.00
ATOM	6506	O	THR	X	432	51.376	30.214	26.576	0.00	0.00
ATOM	6507	N	LEU	X	433	50.883	28.911	28.364	0.00	0.00
ATOM	6508	H	LEU	X	433	50.686	27.962	28.648	0.00	0.00
ATOM	6509	CA	LEU	X	433	51.266	29.890	29.420	0.00	0.00
ATOM	6510	HA	LEU	X	433	50.585	30.740	29.453	0.00	0.00
ATOM	6511	CB	LEU	X	433	51.354	29.302	30.765	0.00	0.00
ATOM	6512	HB2	LEU	X	433	50.414	28.790	30.970	0.00	0.00
ATOM	6513	HB3	LEU	X	433	52.104	28.515	30.842	0.00	0.00
ATOM	6514	CG	LEU	X	433	51.504	30.253	31.943	0.00	0.00
ATOM	6515	HG	LEU	X	433	52.486	30.702	32.094	0.00	0.00
ATOM	6516	CD1	LEU	X	433	50.557	31.447	31.938	0.00	0.00
ATOM	6517	HD11	LEU	X	433	50.884	32.349	31.422	0.00	0.00
ATOM	6518	HD12	LEU	X	433	50.288	31.798	32.934	0.00	0.00
ATOM	6519	HD13	LEU	X	433	49.686	31.128	31.364	0.00	0.00
ATOM	6520	CD2	LEU	X	433	51.323	29.388	33.217	0.00	0.00
ATOM	6521	HD21	LEU	X	433	52.041	28.576	33.102	0.00	0.00
ATOM	6522	HD22	LEU	X	433	51.620	30.068	34.015	0.00	0.00
ATOM	6523	HD23	LEU	X	433	50.304	29.052	33.414	0.00	0.00
ATOM	6524	C	LEU	X	433	52.687	30.496	29.270	0.00	0.00
ATOM	6525	O	LEU	X	433	53.573	29.712	29.059	0.00	0.00
ATOM	6526	N	SER	X	434	52.896	31.833	29.465	0.00	0.00
ATOM	6527	H	SER	X	434	52.064	32.367	29.673	0.00	0.00
ATOM	6528	CA	SER	X	434	54.165	32.562	29.387	0.00	0.00
ATOM	6529	HA	SER	X	434	54.551	32.299	28.402	0.00	0.00
ATOM	6530	CB	SER	X	434	53.883	34.088	29.368	0.00	0.00

ATOM	6531	HB2	SER	X	434	54.898	34.483	29.412	0.00	0.00
ATOM	6532	HB3	SER	X	434	53.447	34.489	28.453	0.00	0.00
ATOM	6533	OG	SER	X	434	53.162	34.531	30.518	0.00	0.00
ATOM	6534	HG	SER	X	434	52.227	34.532	30.300	0.00	0.00
ATOM	6535	C	SER	X	434	55.163	32.122	30.506	0.00	0.00
ATOM	6536	O	SER	X	434	56.295	31.690	30.262	0.00	0.00
ATOM	6537	N	TRP	X	435	54.757	32.271	31.744	0.00	0.00
ATOM	6538	H	TRP	X	435	53.809	32.583	31.898	0.00	0.00
ATOM	6539	CA	TRP	X	435	55.550	32.017	32.941	0.00	0.00
ATOM	6540	HA	TRP	X	435	56.302	32.804	32.893	0.00	0.00
ATOM	6541	CB	TRP	X	435	54.650	32.176	34.240	0.00	0.00
ATOM	6542	HB2	TRP	X	435	53.728	31.601	34.164	0.00	0.00
ATOM	6543	HB3	TRP	X	435	55.337	31.953	35.057	0.00	0.00
ATOM	6544	CG	TRP	X	435	54.228	33.625	34.288	0.00	0.00
ATOM	6545	CD1	TRP	X	435	52.998	34.030	33.942	0.00	0.00
ATOM	6546	HD1	TRP	X	435	52.217	33.396	33.549	0.00	0.00
ATOM	6547	NE1	TRP	X	435	52.915	35.395	34.037	0.00	0.00
ATOM	6548	HE1	TRP	X	435	52.050	35.908	33.946	0.00	0.00
ATOM	6549	CE2	TRP	X	435	54.102	36.003	34.357	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	54.563	37.335	34.515	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	53.839	38.101	34.280	0.00	0.00
ATOM	6552	CH2	TRP	X	435	55.871	37.591	34.960	0.00	0.00
ATOM	6553	HH2	TRP	X	435	56.240	38.601	35.063	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	56.724	36.497	35.155	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	57.741	36.684	35.466	0.00	0.00
ATOM	6556	CE3	TRP	X	435	56.241	35.222	35.066	0.00	0.00
ATOM	6557	HE3	TRP	X	435	57.000	34.461	35.170	0.00	0.00
ATOM	6558	CD2	TRP	X	435	54.901	34.865	34.729	0.00	0.00
ATOM	6559	C	TRP	X	435	56.109	30.565	32.912	0.00	0.00
ATOM	6560	O	TRP	X	435	55.413	29.673	32.310	0.00	0.00
ATOM	6561	N	PRO	X	436	57.304	30.262	33.525	0.00	0.00
ATOM	6562	CD	PRO	X	436	58.247	31.242	34.021	0.00	0.00
ATOM	6563	HD2	PRO	X	436	57.703	31.642	34.877	0.00	0.00
ATOM	6564	HD3	PRO	X	436	58.481	31.948	33.224	0.00	0.00
ATOM	6565	CG	PRO	X	436	59.413	30.380	34.458	0.00	0.00
ATOM	6566	HG2	PRO	X	436	59.293	30.028	35.482	0.00	0.00
ATOM	6567	HB3	PRO	X	436	60.323	30.979	34.421	0.00	0.00
ATOM	6568	CB	PRO	X	436	59.514	29.208	33.426	0.00	0.00
ATOM	6569	HB2	PRO	X	436	60.014	28.313	33.798	0.00	0.00
ATOM	6570	HB3	PRO	X	436	59.941	29.565	32.489	0.00	0.00
ATOM	6571	CA	PRO	X	436	58.034	29.009	33.209	0.00	0.00
ATOM	6572	HA	PRO	X	436	57.863	28.801	32.152	0.00	0.00
ATOM	6573	C	PRO	X	436	57.510	27.760	33.994	0.00	0.00
ATOM	6574	O	PRO	X	436	56.709	27.875	34.885	0.00	0.00
ATOM	6575	N	LEU	X	437	57.854	26.515	33.547	0.00	0.00
ATOM	6576	H	LEU	X	437	58.456	26.491	32.737	0.00	0.00
ATOM	6577	CA	LEU	X	437	57.194	25.340	34.092	0.00	0.00
ATOM	6578	HA	LEU	X	437	56.198	25.634	33.763	0.00	0.00
ATOM	6579	CB	LEU	X	437	57.688	24.033	33.431	0.00	0.00
ATOM	6580	HB2	LEU	X	437	58.507	24.206	32.733	0.00	0.00
ATOM	6581	HB3	LEU	X	437	58.072	23.381	34.215	0.00	0.00
ATOM	6582	CG	LEU	X	437	56.566	23.245	32.692	0.00	0.00
ATOM	6583	HG	LEU	X	437	56.078	23.992	32.065	0.00	0.00
ATOM	6584	CD1	LEU	X	437	57.134	22.140	31.800	0.00	0.00
ATOM	6585	HD11	LEU	X	437	56.364	21.562	31.289	0.00	0.00
ATOM	6586	HD12	LEU	X	437	57.622	21.450	32.489	0.00	0.00
ATOM	6587	HD13	LEU	X	437	57.797	22.599	31.067	0.00	0.00
ATOM	6588	CD2	LEU	X	437	55.472	22.698	33.748	0.00	0.00
ATOM	6589	HD21	LEU	X	437	54.890	23.447	34.285	0.00	0.00
ATOM	6590	HD22	LEU	X	437	54.719	22.060	33.286	0.00	0.00
ATOM	6591	HD23	LEU	X	437	55.949	21.963	34.397	0.00	0.00
ATOM	6592	C	LEU	X	437	57.171	25.249	35.616	0.00	0.00
ATOM	6593	O	LEU	X	437	56.108	25.034	36.221	0.00	0.00
ATOM	6594	N	TRP	X	438	58.344	25.489	36.209	0.00	0.00
ATOM	6595	H	TRP	X	438	59.072	25.886	35.632	0.00	0.00
ATOM	6596	CA	TRP	X	438	58.548	25.287	37.615	0.00	0.00
ATOM	6597	HA	TRP	X	438	58.296	24.239	37.775	0.00	0.00

ATOM	6598	CB	TRP	X	438	59.991	25.541	37.980	0.00	0.00
ATOM	6599	HB2	TRP	X	438	60.181	25.488	39.052	0.00	0.00
ATOM	6600	HB3	TRP	X	438	60.572	24.752	37.504	0.00	0.00
ATOM	6601	CG	TRP	X	438	60.541	26.871	37.406	0.00	0.00
ATOM	6602	CD1	TRP	X	438	61.305	26.970	36.237	0.00	0.00
ATOM	6603	HD1	TRP	X	438	61.521	26.120	35.608	0.00	0.00
ATOM	6604	NE1	TRP	X	438	61.800	28.242	36.113	0.00	0.00
ATOM	6605	HE1	TRP	X	438	62.432	28.462	35.356	0.00	0.00
ATOM	6606	CE2	TRP	X	438	61.321	29.043	37.110	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	61.491	30.367	37.438	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	62.112	30.994	36.815	0.00	0.00
ATOM	6609	CH2	TRP	X	438	60.827	30.844	38.600	0.00	0.00
ATOM	6610	HH2	TRP	X	438	60.994	31.831	39.004	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	60.075	30.041	39.436	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	59.600	30.364	40.351	0.00	0.00
ATOM	6613	CE3	TRP	X	438	60.113	28.699	39.133	0.00	0.00
ATOM	6614	HE3	TRP	X	438	59.470	28.047	39.706	0.00	0.00
ATOM	6615	CD2	TRP	X	438	60.557	28.183	37.945	0.00	0.00
ATOM	6616	C	TRP	X	438	57.679	26.218	38.531	0.00	0.00
ATOM	6617	O	TRP	X	438	57.550	25.938	39.702	0.00	0.00
ATOM	6618	N	MET	X	439	57.101	27.351	38.071	0.00	0.00
ATOM	6619	H	MET	X	439	57.000	27.465	37.072	0.00	0.00
ATOM	6620	CA	MET	X	439	56.226	28.231	38.868	0.00	0.00
ATOM	6621	HA	MET	X	439	56.780	28.395	39.793	0.00	0.00
ATOM	6622	CB	MET	X	439	55.991	29.548	38.053	0.00	0.00
ATOM	6623	HB2	MET	X	439	55.828	29.264	37.014	0.00	0.00
ATOM	6624	HB3	MET	X	439	55.029	29.949	38.370	0.00	0.00
ATOM	6625	CG	MET	X	439	57.192	30.463	38.067	0.00	0.00
ATOM	6626	HG2	MET	X	439	57.493	30.618	39.103	0.00	0.00
ATOM	6627	HG3	MET	X	439	57.936	30.064	37.376	0.00	0.00
ATOM	6628	SD	MET	X	439	56.812	32.110	37.585	0.00	0.00
ATOM	6629	CE	MET	X	439	58.262	33.038	38.010	0.00	0.00
ATOM	6630	HE1	MET	X	439	58.151	34.092	37.754	0.00	0.00
ATOM	6631	HE2	MET	X	439	58.417	32.889	39.079	0.00	0.00
ATOM	6632	HE3	MET	X	439	59.174	32.630	37.575	0.00	0.00
ATOM	6633	C	MET	X	439	54.870	27.621	39.213	0.00	0.00
ATOM	6634	O	MET	X	439	54.228	28.037	40.187	0.00	0.00
ATOM	6635	N	GLY	X	440	54.382	26.693	38.431	0.00	0.00
ATOM	6636	H	GLY	X	440	54.940	26.206	37.745	0.00	0.00
ATOM	6637	CA	GLY	X	440	52.976	26.297	38.593	0.00	0.00
ATOM	6638	HA2	GLY	X	440	52.889	25.240	38.341	0.00	0.00
ATOM	6639	HA3	GLY	X	440	52.664	26.389	39.634	0.00	0.00
ATOM	6640	C	GLY	X	440	51.905	27.181	37.955	0.00	0.00
ATOM	6641	O	GLY	X	440	52.187	27.811	36.905	0.00	0.00
ATOM	6642	N	VAL	X	441	50.658	27.134	38.421	0.00	0.00
ATOM	6643	H	VAL	X	441	50.447	26.626	39.269	0.00	0.00
ATOM	6644	CA	VAL	X	441	49.678	28.132	37.939	0.00	0.00
ATOM	6645	HA	VAL	X	441	49.852	28.301	36.876	0.00	0.00
ATOM	6646	CB	VAL	X	441	48.206	27.754	38.129	0.00	0.00
ATOM	6647	HB	VAL	X	441	47.902	27.840	39.172	0.00	0.00
ATOM	6648	CG1	VAL	X	441	47.340	28.719	37.231	0.00	0.00
ATOM	6649	HG11	VAL	X	441	47.462	28.423	36.189	0.00	0.00
ATOM	6650	HG12	VAL	X	441	46.307	28.561	37.541	0.00	0.00
ATOM	6651	HG13	VAL	X	441	47.681	29.745	37.369	0.00	0.00
ATOM	6652	CG2	VAL	X	441	47.877	26.344	37.680	0.00	0.00
ATOM	6653	HG21	VAL	X	441	46.802	26.208	37.557	0.00	0.00
ATOM	6654	HG22	VAL	X	441	48.140	25.543	38.371	0.00	0.00
ATOM	6655	HG23	VAL	X	441	48.374	26.221	36.718	0.00	0.00
ATOM	6656	C	VAL	X	441	49.881	29.514	38.709	0.00	0.00
ATOM	6657	O	VAL	X	441	49.735	29.451	39.949	0.00	0.00
ATOM	6658	N	PRO	X	442	50.227	30.651	38.087	0.00	0.00
ATOM	6659	CD	PRO	X	442	50.647	30.737	36.739	0.00	0.00
ATOM	6660	HD2	PRO	X	442	49.816	30.475	36.084	0.00	0.00
ATOM	6661	HD3	PRO	X	442	51.409	29.987	36.527	0.00	0.00
ATOM	6662	CG	PRO	X	442	51.307	32.035	36.551	0.00	0.00
ATOM	6663	HG2	PRO	X	442	50.607	32.691	36.031	0.00	0.00
ATOM	6664	HG3	PRO	X	442	52.233	31.945	35.983	0.00	0.00

ATOM	6665	CB	PRO	X	442	51.560	32.575	37.984	0.00	0.00
ATOM	6666	HB2	PRO	X	442	51.530	33.665	38.017	0.00	0.00
ATOM	6667	HB3	PRO	X	442	52.561	32.226	38.236	0.00	0.00
ATOM	6668	CA	PRO	X	442	50.522	31.859	38.794	0.00	0.00
ATOM	6669	HA	PRO	X	442	51.036	31.534	39.699	0.00	0.00
ATOM	6670	C	PRO	X	442	49.302	32.741	39.031	0.00	0.00
ATOM	6671	O	PRO	X	442	48.315	32.671	38.234	0.00	0.00
ATOM	6672	N	HIP	X	443	49.388	33.631	40.096	0.00	0.00
ATOM	6673	H	HIP	X	443	50.224	33.644	40.662	0.00	0.00
ATOM	6674	CA	HIP	X	443	48.271	34.490	40.516	0.00	0.00
ATOM	6675	HA	HIP	X	443	47.617	33.821	41.075	0.00	0.00
ATOM	6676	CB	HIP	X	443	48.807	35.551	41.486	0.00	0.00
ATOM	6677	HB2	HIP	X	443	48.970	35.108	42.469	0.00	0.00
ATOM	6678	HB3	HIP	X	443	49.810	35.783	41.128	0.00	0.00
ATOM	6679	CG	HIP	X	443	47.943	36.709	41.653	0.00	0.00
ATOM	6680	ND1	HIP	X	443	47.034	36.933	42.675	0.00	0.00
ATOM	6681	HD1	HIP	X	443	46.790	36.194	43.319	0.00	0.00
ATOM	6682	CE1	HIP	X	443	46.481	38.156	42.439	0.00	0.00
ATOM	6683	HE1	HIP	X	443	45.678	38.507	43.070	0.00	0.00
ATOM	6684	NE2	HIP	X	443	47.149	38.752	41.435	0.00	0.00
ATOM	6685	HE2	HIP	X	443	46.925	39.687	41.124	0.00	0.00
ATOM	6686	CD2	HIP	X	443	47.997	37.800	40.849	0.00	0.00
ATOM	6687	HD2	HIP	X	443	48.618	37.886	39.969	0.00	0.00
ATOM	6688	C	HIP	X	443	47.566	35.193	39.273	0.00	0.00
ATOM	6689	O	HIP	X	443	48.172	35.882	38.414	0.00	0.00
ATOM	6690	N	GLY	X	444	46.261	35.021	39.217	0.00	0.00
ATOM	6691	H	GLY	X	444	45.858	34.339	39.844	0.00	0.00
ATOM	6692	CA	GLY	X	444	45.318	35.650	38.307	0.00	0.00
ATOM	6693	HA2	GLY	X	444	44.315	35.243	38.438	0.00	0.00
ATOM	6694	HA3	GLY	X	444	45.407	36.718	38.501	0.00	0.00
ATOM	6695	C	GLY	X	444	45.558	35.262	36.859	0.00	0.00
ATOM	6696	O	GLY	X	444	45.752	36.088	35.983	0.00	0.00
ATOM	6697	N	TYR	X	445	45.723	33.911	36.623	0.00	0.00
ATOM	6698	H	TYR	X	445	45.584	33.330	37.438	0.00	0.00
ATOM	6699	CA	TYR	X	445	45.788	33.319	35.308	0.00	0.00
ATOM	6700	HA	TYR	X	445	45.403	34.140	34.704	0.00	0.00
ATOM	6701	CB	TYR	X	445	47.247	32.937	35.000	0.00	0.00
ATOM	6702	HB2	TYR	X	445	47.853	32.619	35.848	0.00	0.00
ATOM	6703	HB3	TYR	X	445	47.254	32.173	34.222	0.00	0.00
ATOM	6704	CG	TYR	X	445	48.106	34.124	34.381	0.00	0.00
ATOM	6705	CD1	TYR	X	445	48.171	34.252	33.073	0.00	0.00
ATOM	6706	HD1	TYR	X	445	47.586	33.569	32.475	0.00	0.00
ATOM	6707	CE1	TYR	X	445	48.973	35.266	32.476	0.00	0.00
ATOM	6708	HE1	TYR	X	445	49.108	35.309	31.406	0.00	0.00
ATOM	6709	CZ	TYR	X	445	49.666	36.163	33.285	0.00	0.00
ATOM	6710	OH	TYR	X	445	50.504	37.114	32.754	0.00	0.00
ATOM	6711	HH	TYR	X	445	50.361	37.258	31.815	0.00	0.00
ATOM	6712	CE2	TYR	X	445	49.614	36.036	34.672	0.00	0.00
ATOM	6713	HE2	TYR	X	445	50.131	36.726	35.323	0.00	0.00
ATOM	6714	CD2	TYR	X	445	48.848	34.944	35.207	0.00	0.00
ATOM	6715	HD2	TYR	X	445	48.821	34.812	36.279	0.00	0.00
ATOM	6716	C	TYR	X	445	44.773	32.225	34.944	0.00	0.00
ATOM	6717	O	TYR	X	445	44.888	31.648	33.867	0.00	0.00
ATOM	6718	N	GLU	X	446	43.717	32.004	35.727	0.00	0.00
ATOM	6719	H	GLU	X	446	43.500	32.531	36.561	0.00	0.00
ATOM	6720	CA	GLU	X	446	42.577	31.121	35.350	0.00	0.00
ATOM	6721	HA	GLU	X	446	43.031	30.339	34.741	0.00	0.00
ATOM	6722	CB	GLU	X	446	41.873	30.461	36.507	0.00	0.00
ATOM	6723	HB2	GLU	X	446	41.281	29.644	36.094	0.00	0.00
ATOM	6724	HB3	GLU	X	446	42.719	30.054	37.060	0.00	0.00
ATOM	6725	CG	GLU	X	446	41.044	31.301	37.515	0.00	0.00
ATOM	6726	HG2	GLU	X	446	40.180	31.694	36.979	0.00	0.00
ATOM	6727	HG3	GLU	X	446	40.637	30.647	38.287	0.00	0.00
ATOM	6728	CD	GLU	X	446	41.727	32.475	38.259	0.00	0.00
ATOM	6729	OE1	GLU	X	446	42.145	33.290	37.416	0.00	0.00
ATOM	6730	OE2	GLU	X	446	41.581	32.677	39.446	0.00	0.00
ATOM	6731	C	GLU	X	446	41.669	31.888	34.376	0.00	0.00

ATOM	6732	O	GLU	X	446	40.965	31.225	33.594	0.00	0.00
ATOM	6733	N	ILE	X	447	41.646	33.249	34.453	0.00	0.00
ATOM	6734	H	ILE	X	447	42.147	33.661	35.227	0.00	0.00
ATOM	6735	CA	ILE	X	447	40.647	34.102	33.801	0.00	0.00
ATOM	6736	HA	ILE	X	447	39.675	33.986	34.281	0.00	0.00
ATOM	6737	CB	ILE	X	447	41.130	35.594	33.993	0.00	0.00
ATOM	6738	HB	ILE	X	447	40.723	36.184	33.172	0.00	0.00
ATOM	6739	CG2	ILE	X	447	40.587	36.088	35.306	0.00	0.00
ATOM	6740	HG21	ILE	X	447	40.990	35.568	36.175	0.00	0.00
ATOM	6741	HG22	ILE	X	447	39.499	36.033	35.333	0.00	0.00
ATOM	6742	HG23	ILE	X	447	40.791	37.154	35.407	0.00	0.00
ATOM	6743	CG1	ILE	X	447	42.665	35.696	33.968	0.00	0.00
ATOM	6744	HG12	ILE	X	447	43.210	35.348	34.845	0.00	0.00
ATOM	6745	HG13	ILE	X	447	42.999	35.045	33.160	0.00	0.00
ATOM	6746	CD1	ILE	X	447	43.198	37.187	33.776	0.00	0.00
ATOM	6747	HD11	ILE	X	447	42.858	37.444	32.773	0.00	0.00
ATOM	6748	HD12	ILE	X	447	44.281	37.072	33.805	0.00	0.00
ATOM	6749	HD13	ILE	X	447	42.902	37.934	34.513	0.00	0.00
ATOM	6750	C	ILE	X	447	40.444	33.844	32.328	0.00	0.00
ATOM	6751	O	ILE	X	447	39.290	33.710	31.890	0.00	0.00
ATOM	6752	N	GLU	X	448	41.521	33.602	31.559	0.00	0.00
ATOM	6753	H	GLU	X	448	42.398	33.652	32.059	0.00	0.00
ATOM	6754	CA	GLU	X	448	41.489	33.207	30.135	0.00	0.00
ATOM	6755	HA	GLU	X	448	41.106	34.032	29.534	0.00	0.00
ATOM	6756	CB	GLU	X	448	42.876	32.850	29.672	0.00	0.00
ATOM	6757	HB2	GLU	X	448	43.240	32.186	30.457	0.00	0.00
ATOM	6758	HB3	GLU	X	448	42.840	32.421	28.671	0.00	0.00
ATOM	6759	CG	GLU	X	448	43.780	34.101	29.542	0.00	0.00
ATOM	6760	HG2	GLU	X	448	43.297	34.858	28.923	0.00	0.00
ATOM	6761	HG3	GLU	X	448	43.979	34.407	30.569	0.00	0.00
ATOM	6762	CD	GLU	X	448	45.126	33.680	28.936	0.00	0.00
ATOM	6763	OE1	GLU	X	448	45.579	34.252	27.940	0.00	0.00
ATOM	6764	OE2	GLU	X	448	45.694	32.734	29.496	0.00	0.00
ATOM	6765	C	GLU	X	448	40.515	31.986	29.922	0.00	0.00
ATOM	6766	O	GLU	X	448	39.933	32.009	28.828	0.00	0.00
ATOM	6767	N	PHE	X	449	40.192	31.061	30.880	0.00	0.00
ATOM	6768	H	PHE	X	449	40.541	31.246	31.810	0.00	0.00
ATOM	6769	CA	PHE	X	449	39.265	29.950	30.773	0.00	0.00
ATOM	6770	HA	PHE	X	449	39.409	29.494	29.794	0.00	0.00
ATOM	6771	CB	PHE	X	449	39.579	28.891	31.868	0.00	0.00
ATOM	6772	HB2	PHE	X	449	39.641	29.349	32.856	0.00	0.00
ATOM	6773	HB3	PHE	X	449	38.687	28.268	31.939	0.00	0.00
ATOM	6774	CG	PHE	X	449	40.693	27.978	31.605	0.00	0.00
ATOM	6775	CD1	PHE	X	449	41.979	28.305	32.012	0.00	0.00
ATOM	6776	HD1	PHE	X	449	42.162	29.195	32.596	0.00	0.00
ATOM	6777	CE1	PHE	X	449	43.112	27.653	31.471	0.00	0.00
ATOM	6778	HE1	PHE	X	449	44.120	27.910	31.763	0.00	0.00
ATOM	6779	CZ	PHE	X	449	42.909	26.646	30.528	0.00	0.00
ATOM	6780	HZ	PHE	X	449	43.782	26.094	30.215	0.00	0.00
ATOM	6781	CE2	PHE	X	449	41.631	26.184	30.166	0.00	0.00
ATOM	6782	HE2	PHE	X	449	41.512	25.431	29.401	0.00	0.00
ATOM	6783	CD2	PHE	X	449	40.494	26.867	30.714	0.00	0.00
ATOM	6784	HD2	PHE	X	449	39.537	26.526	30.350	0.00	0.00
ATOM	6785	C	PHE	X	449	37.756	30.431	30.853	0.00	0.00
ATOM	6786	O	PHE	X	449	36.952	29.872	30.252	0.00	0.00
ATOM	6787	N	ILE	X	450	37.410	31.508	31.585	0.00	0.00
ATOM	6788	H	ILE	X	450	38.179	32.038	31.969	0.00	0.00
ATOM	6789	CA	ILE	X	450	35.994	31.960	31.735	0.00	0.00
ATOM	6790	HA	ILE	X	450	35.209	31.204	31.704	0.00	0.00
ATOM	6791	CB	ILE	X	450	35.861	32.683	33.094	0.00	0.00
ATOM	6792	HB	ILE	X	450	36.268	33.691	33.012	0.00	0.00
ATOM	6793	CG2	ILE	X	450	34.404	32.902	33.467	0.00	0.00
ATOM	6794	HG21	ILE	X	450	34.079	31.960	33.909	0.00	0.00
ATOM	6795	HG22	ILE	X	450	33.819	33.132	32.576	0.00	0.00
ATOM	6796	HG23	ILE	X	450	34.255	33.804	34.061	0.00	0.00
ATOM	6797	CG1	ILE	X	450	36.823	32.235	34.304	0.00	0.00
ATOM	6798	HG12	ILE	X	450	37.883	32.387	34.102	0.00	0.00

ATOM	6799	HG13	ILE	X	450	36.508	32.815	35.172	0.00	0.00
ATOM	6800	CD1	ILE	X	450	36.687	30.789	34.781	0.00	0.00
ATOM	6801	HD11	ILE	X	450	35.678	30.393	34.669	0.00	0.00
ATOM	6802	HD12	ILE	X	450	37.048	30.711	35.807	0.00	0.00
ATOM	6803	HD13	ILE	X	450	37.180	30.147	34.051	0.00	0.00
ATOM	6804	C	ILE	X	450	35.678	32.907	30.550	0.00	0.00
ATOM	6805	O	ILE	X	450	34.535	33.002	30.036	0.00	0.00
ATOM	6806	N	PHE	X	451	36.692	33.613	30.098	0.00	0.00
ATOM	6807	H	PHE	X	451	37.509	33.561	30.690	0.00	0.00
ATOM	6808	CA	PHE	X	451	36.729	34.378	28.883	0.00	0.00
ATOM	6809	HA	PHE	X	451	35.789	34.925	28.820	0.00	0.00
ATOM	6810	CB	PHE	X	451	37.776	35.450	28.868	0.00	0.00
ATOM	6811	HB2	PHE	X	451	38.722	35.007	29.181	0.00	0.00
ATOM	6812	HB3	PHE	X	451	38.007	35.797	27.861	0.00	0.00
ATOM	6813	CG	PHE	X	451	37.484	36.710	29.711	0.00	0.00
ATOM	6814	CD1	PHE	X	451	38.145	37.005	30.941	0.00	0.00
ATOM	6815	HD1	PHE	X	451	38.835	36.281	31.347	0.00	0.00
ATOM	6816	CE1	PHE	X	451	37.821	38.101	31.705	0.00	0.00
ATOM	6817	HE1	PHE	X	451	38.349	38.324	32.621	0.00	0.00
ATOM	6818	CZ	PHE	X	451	36.861	39.010	31.167	0.00	0.00
ATOM	6819	HZ	PHE	X	451	36.741	39.996	31.591	0.00	0.00
ATOM	6820	CE2	PHE	X	451	36.136	38.751	29.968	0.00	0.00
ATOM	6821	HE2	PHE	X	451	35.342	39.360	29.562	0.00	0.00
ATOM	6822	CD2	PHE	X	451	36.495	37.583	29.243	0.00	0.00
ATOM	6823	HD2	PHE	X	451	36.014	37.408	28.292	0.00	0.00
ATOM	6824	C	PHE	X	451	36.651	33.495	27.580	0.00	0.00
ATOM	6825	O	PHE	X	451	36.183	34.024	26.552	0.00	0.00
ATOM	6826	N	GLY	X	452	36.997	32.234	27.669	0.00	0.00
ATOM	6827	H	GLY	X	452	37.288	31.921	28.584	0.00	0.00
ATOM	6828	CA	GLY	X	452	36.973	31.194	26.623	0.00	0.00
ATOM	6829	HA2	GLY	X	452	37.067	30.238	27.138	0.00	0.00
ATOM	6830	HA3	GLY	X	452	36.043	31.195	26.054	0.00	0.00
ATOM	6831	C	GLY	X	452	38.087	31.268	25.605	0.00	0.00
ATOM	6832	O	GLY	X	452	38.012	30.630	24.517	0.00	0.00
ATOM	6833	N	ILE	X	453	39.196	31.898	25.932	0.00	0.00
ATOM	6834	H	ILE	X	453	39.389	32.112	26.899	0.00	0.00
ATOM	6835	CA	ILE	X	453	40.379	32.004	25.108	0.00	0.00
ATOM	6836	HA	ILE	X	453	40.143	32.642	24.256	0.00	0.00
ATOM	6837	CB	ILE	X	453	41.441	32.824	25.833	0.00	0.00
ATOM	6838	HB	ILE	X	453	41.962	32.286	26.625	0.00	0.00
ATOM	6839	CG2	ILE	X	453	42.636	33.287	25.020	0.00	0.00
ATOM	6840	HG21	ILE	X	453	42.291	33.945	24.223	0.00	0.00
ATOM	6841	HG22	ILE	X	453	43.095	32.376	24.635	0.00	0.00
ATOM	6842	HG23	ILE	X	453	43.430	33.807	25.557	0.00	0.00
ATOM	6843	CG1	ILE	X	453	40.805	34.154	26.420	0.00	0.00
ATOM	6844	HG12	ILE	X	453	40.284	33.987	27.363	0.00	0.00
ATOM	6845	HG13	ILE	X	453	41.657	34.789	26.662	0.00	0.00
ATOM	6846	CD1	ILE	X	453	39.907	34.973	25.527	0.00	0.00
ATOM	6847	HD11	ILE	X	453	40.307	35.069	24.517	0.00	0.00
ATOM	6848	HD12	ILE	X	453	39.859	36.012	25.855	0.00	0.00
ATOM	6849	HD13	ILE	X	453	38.882	34.623	25.406	0.00	0.00
ATOM	6850	C	ILE	X	453	40.891	30.667	24.547	0.00	0.00
ATOM	6851	O	ILE	X	453	41.304	30.674	23.394	0.00	0.00
ATOM	6852	N	PRO	X	454	40.878	29.550	25.249	0.00	0.00
ATOM	6853	CD	PRO	X	454	40.765	29.367	26.736	0.00	0.00
ATOM	6854	HD2	PRO	X	454	39.708	29.514	26.962	0.00	0.00
ATOM	6855	HD3	PRO	X	454	41.379	30.149	27.183	0.00	0.00
ATOM	6856	CG	PRO	X	454	41.364	27.977	26.985	0.00	0.00
ATOM	6857	HG2	PRO	X	454	40.958	27.479	27.866	0.00	0.00
ATOM	6858	HG3	PRO	X	454	42.414	28.181	27.196	0.00	0.00
ATOM	6859	CB	PRO	X	454	41.059	27.176	25.710	0.00	0.00
ATOM	6860	HB2	PRO	X	454	40.048	26.776	25.794	0.00	0.00
ATOM	6861	HB3	PRO	X	454	41.809	26.401	25.555	0.00	0.00
ATOM	6862	CA	PRO	X	454	41.176	28.208	24.639	0.00	0.00
ATOM	6863	HA	PRO	X	454	42.162	28.487	24.267	0.00	0.00
ATOM	6864	C	PRO	X	454	40.325	27.865	23.402	0.00	0.00
ATOM	6865	O	PRO	X	454	40.780	26.994	22.665	0.00	0.00

ATOM	6866	N	LEU	X	455	39.237	28.589	22.982	0.00	0.00
ATOM	6867	H	LEU	X	455	38.924	29.385	23.518	0.00	0.00
ATOM	6868	CA	LEU	X	455	38.633	28.587	21.616	0.00	0.00
ATOM	6869	HA	LEU	X	455	38.603	27.538	21.324	0.00	0.00
ATOM	6870	CB	LEU	X	455	37.158	28.969	21.816	0.00	0.00
ATOM	6871	HB2	LEU	X	455	37.131	30.041	22.014	0.00	0.00
ATOM	6872	HB3	LEU	X	455	36.648	29.002	20.853	0.00	0.00
ATOM	6873	CG	LEU	X	455	36.261	28.159	22.796	0.00	0.00
ATOM	6874	HG	LEU	X	455	36.578	28.249	23.835	0.00	0.00
ATOM	6875	CD1	LEU	X	455	34.822	28.627	22.676	0.00	0.00
ATOM	6876	HD11	LEU	X	455	34.160	28.277	23.467	0.00	0.00
ATOM	6877	HD12	LEU	X	455	34.367	28.458	21.700	0.00	0.00
ATOM	6878	HD13	LEU	X	455	34.677	29.691	22.863	0.00	0.00
ATOM	6879	CD2	LEU	X	455	36.529	26.622	22.694	0.00	0.00
ATOM	6880	HD21	LEU	X	455	37.604	26.488	22.812	0.00	0.00
ATOM	6881	HD22	LEU	X	455	36.009	26.136	23.519	0.00	0.00
ATOM	6882	HD23	LEU	X	455	36.275	26.357	21.668	0.00	0.00
ATOM	6883	C	LEU	X	455	39.361	29.441	20.578	0.00	0.00
ATOM	6884	O	LEU	X	455	39.091	29.178	19.410	0.00	0.00
ATOM	6885	N	ASP	X	456	40.321	30.275	20.890	0.00	0.00
ATOM	6886	H	ASP	X	456	40.584	30.347	21.863	0.00	0.00
ATOM	6887	CA	ASP	X	456	41.095	30.998	19.882	0.00	0.00
ATOM	6888	HA	ASP	X	456	40.366	31.669	19.429	0.00	0.00
ATOM	6889	CB	ASP	X	456	42.036	31.997	20.604	0.00	0.00
ATOM	6890	HB2	ASP	X	456	41.571	32.565	21.410	0.00	0.00
ATOM	6891	HB3	ASP	X	456	42.752	31.302	21.042	0.00	0.00
ATOM	6892	CG	ASP	X	456	42.694	32.925	19.483	0.00	0.00
ATOM	6893	OD1	ASP	X	456	42.559	34.165	19.630	0.00	0.00
ATOM	6894	OD2	ASP	X	456	43.362	32.445	18.527	0.00	0.00
ATOM	6895	C	ASP	X	456	41.779	30.035	18.892	0.00	0.00
ATOM	6896	O	ASP	X	456	42.539	29.173	19.385	0.00	0.00
ATOM	6897	N	PRO	X	457	41.525	30.199	17.553	0.00	0.00
ATOM	6898	CD	PRO	X	457	40.600	31.084	17.022	0.00	0.00
ATOM	6899	HD2	PRO	X	457	40.734	32.140	17.255	0.00	0.00
ATOM	6900	HD3	PRO	X	457	39.593	30.849	17.368	0.00	0.00
ATOM	6901	CG	PRO	X	457	40.570	30.908	15.535	0.00	0.00
ATOM	6902	HG2	PRO	X	457	41.316	31.507	15.014	0.00	0.00
ATOM	6903	HG3	PRO	X	457	39.604	31.252	15.166	0.00	0.00
ATOM	6904	CB	PRO	X	457	40.921	29.411	15.358	0.00	0.00
ATOM	6905	HB2	PRO	X	457	41.407	29.259	14.394	0.00	0.00
ATOM	6906	HB3	PRO	X	457	40.066	28.742	15.458	0.00	0.00
ATOM	6907	CA	PRO	X	457	41.909	29.237	16.526	0.00	0.00
ATOM	6908	HA	PRO	X	457	41.828	28.219	16.907	0.00	0.00
ATOM	6909	C	PRO	X	457	43.413	29.382	16.122	0.00	0.00
ATOM	6910	O	PRO	X	457	44.014	28.399	15.690	0.00	0.00
ATOM	6911	N	SER	X	458	44.025	30.453	16.480	0.00	0.00
ATOM	6912	H	SER	X	458	43.489	31.076	17.066	0.00	0.00
ATOM	6913	CA	SER	X	458	45.450	30.893	16.161	0.00	0.00
ATOM	6914	HA	SER	X	458	45.826	30.556	15.194	0.00	0.00
ATOM	6915	CB	SER	X	458	45.503	32.428	16.147	0.00	0.00
ATOM	6916	HB2	SER	X	458	46.420	32.770	15.666	0.00	0.00
ATOM	6917	HB3	SER	X	458	44.647	32.885	15.651	0.00	0.00
ATOM	6918	OG	SER	X	458	45.497	32.957	17.444	0.00	0.00
ATOM	6919	HG	SER	X	458	44.679	32.613	17.810	0.00	0.00
ATOM	6920	C	SER	X	458	46.445	30.423	17.275	0.00	0.00
ATOM	6921	O	SER	X	458	47.631	30.338	16.904	0.00	0.00
ATOM	6922	N	ARG	X	459	45.972	30.042	18.516	0.00	0.00
ATOM	6923	H	ARG	X	459	44.970	30.122	18.618	0.00	0.00
ATOM	6924	CA	ARG	X	459	46.806	29.710	19.749	0.00	0.00
ATOM	6925	HA	ARG	X	459	47.835	30.044	19.619	0.00	0.00
ATOM	6926	CB	ARG	X	459	46.200	30.407	20.911	0.00	0.00
ATOM	6927	HB2	ARG	X	459	45.119	30.267	20.906	0.00	0.00
ATOM	6928	HB3	ARG	X	459	46.643	30.018	21.828	0.00	0.00
ATOM	6929	CG	ARG	X	459	46.496	31.898	20.751	0.00	0.00
ATOM	6930	HG2	ARG	X	459	47.568	32.091	20.792	0.00	0.00
ATOM	6931	HG3	ARG	X	459	46.127	32.228	19.779	0.00	0.00
ATOM	6932	CD	ARG	X	459	45.659	32.682	21.775	0.00	0.00

ATOM	6933	HD2	ARG	X	459	44.588	32.639	21.580	0.00	0.00
ATOM	6934	HD3	ARG	X	459	45.833	32.385	22.809	0.00	0.00
ATOM	6935	NE	ARG	X	459	45.895	34.142	21.595	0.00	0.00
ATOM	6936	HE	ARG	X	459	46.222	34.400	20.675	0.00	0.00
ATOM	6937	CZ	ARG	X	459	45.811	35.151	22.446	0.00	0.00
ATOM	6938	NH1	ARG	X	459	45.729	34.919	23.743	0.00	0.00
ATOM	6939	HH11	ARG	X	459	45.812	33.980	24.105	0.00	0.00
ATOM	6940	HH12	ARG	X	459	45.616	35.657	24.423	0.00	0.00
ATOM	6941	NH2	ARG	X	459	45.908	36.401	22.040	0.00	0.00
ATOM	6942	HH21	ARG	X	459	46.032	36.602	21.058	0.00	0.00
ATOM	6943	HH22	ARG	X	459	45.629	37.143	22.665	0.00	0.00
ATOM	6944	C	ARG	X	459	46.845	28.174	19.955	0.00	0.00
ATOM	6945	O	ARG	X	459	46.007	27.496	19.514	0.00	0.00
ATOM	6946	N	ASN	X	460	47.931	27.667	20.636	0.00	0.00
ATOM	6947	H	ASN	X	460	48.607	28.324	20.998	0.00	0.00
ATOM	6948	CA	ASN	X	460	48.395	26.269	20.640	0.00	0.00
ATOM	6949	HA	ASN	X	460	48.199	25.911	19.629	0.00	0.00
ATOM	6950	CB	ASN	X	460	49.904	26.319	20.777	0.00	0.00
ATOM	6951	HB2	ASN	X	460	50.261	27.053	20.055	0.00	0.00
ATOM	6952	HB3	ASN	X	460	50.236	26.784	21.705	0.00	0.00
ATOM	6953	CG	ASN	X	460	50.593	24.973	20.501	0.00	0.00
ATOM	6954	OD1	ASN	X	460	50.303	24.160	19.632	0.00	0.00
ATOM	6955	ND2	ASN	X	460	51.748	24.800	21.144	0.00	0.00
ATOM	6956	HD21	ASN	X	460	52.243	23.922	21.079	0.00	0.00
ATOM	6957	HD22	ASN	X	460	52.041	25.396	21.905	0.00	0.00
ATOM	6958	C	ASN	X	460	47.696	25.379	21.711	0.00	0.00
ATOM	6959	O	ASN	X	460	48.209	24.414	22.217	0.00	0.00
ATOM	6960	N	TYR	X	461	46.447	25.768	22.013	0.00	0.00
ATOM	6961	H	TYR	X	461	46.145	26.671	21.676	0.00	0.00
ATOM	6962	CA	TYR	X	461	45.447	24.949	22.776	0.00	0.00
ATOM	6963	HA	TYR	X	461	45.946	24.871	23.742	0.00	0.00
ATOM	6964	CB	TYR	X	461	44.262	25.815	23.064	0.00	0.00
ATOM	6965	HB2	TYR	X	461	43.708	25.925	22.132	0.00	0.00
ATOM	6966	HB3	TYR	X	461	43.473	25.343	23.649	0.00	0.00
ATOM	6967	CG	TYR	X	461	44.569	27.143	23.635	0.00	0.00
ATOM	6968	CD1	TYR	X	461	44.298	28.381	23.020	0.00	0.00
ATOM	6969	HD1	TYR	X	461	44.051	28.448	21.971	0.00	0.00
ATOM	6970	CE1	TYR	X	461	44.440	29.609	23.765	0.00	0.00
ATOM	6971	HE1	TYR	X	461	44.414	30.586	23.305	0.00	0.00
ATOM	6972	CZ	TYR	X	461	44.792	29.463	25.142	0.00	0.00
ATOM	6973	OH	TYR	X	461	44.737	30.521	25.995	0.00	0.00
ATOM	6974	HH	TYR	X	461	45.121	30.310	26.849	0.00	0.00
ATOM	6975	CE2	TYR	X	461	45.133	28.238	25.721	0.00	0.00
ATOM	6976	HE2	TYR	X	461	45.385	28.267	26.771	0.00	0.00
ATOM	6977	CD2	TYR	X	461	45.071	27.051	24.994	0.00	0.00
ATOM	6978	HD2	TYR	X	461	45.328	26.121	25.478	0.00	0.00
ATOM	6979	C	TYR	X	461	45.073	23.527	22.290	0.00	0.00
ATOM	6980	O	TYR	X	461	45.062	23.140	21.150	0.00	0.00
ATOM	6981	N	THR	X	462	44.793	22.733	23.283	0.00	0.00
ATOM	6982	H	THR	X	462	44.621	23.129	24.196	0.00	0.00
ATOM	6983	CA	THR	X	462	44.650	21.272	23.231	0.00	0.00
ATOM	6984	HA	THR	X	462	45.007	20.996	22.239	0.00	0.00
ATOM	6985	CB	THR	X	462	45.491	20.442	24.217	0.00	0.00
ATOM	6986	HB	THR	X	462	45.233	19.385	24.165	0.00	0.00
ATOM	6987	CG2	THR	X	462	47.056	20.541	24.084	0.00	0.00
ATOM	6988	HG21	THR	X	462	47.464	19.936	23.274	0.00	0.00
ATOM	6989	HG22	THR	X	462	47.506	20.224	25.025	0.00	0.00
ATOM	6990	HG23	THR	X	462	47.404	21.559	23.908	0.00	0.00
ATOM	6991	OG1	THR	X	462	45.311	21.021	25.510	0.00	0.00
ATOM	6992	HG1	THR	X	462	45.799	21.844	25.579	0.00	0.00
ATOM	6993	C	THR	X	462	43.164	20.978	23.376	0.00	0.00
ATOM	6994	O	THR	X	462	42.508	21.725	24.138	0.00	0.00
ATOM	6995	N	ALA	X	463	42.646	19.936	22.802	0.00	0.00
ATOM	6996	H	ALA	X	463	43.351	19.308	22.442	0.00	0.00
ATOM	6997	CA	ALA	X	463	41.164	19.651	22.782	0.00	0.00
ATOM	6998	HA	ALA	X	463	40.576	20.400	22.253	0.00	0.00
ATOM	6999	CB	ALA	X	463	40.957	18.263	22.076	0.00	0.00

ATOM	7000	HB1	ALA	X	463	41.549	17.437	22.470	0.00	0.00
ATOM	7001	HB2	ALA	X	463	41.382	18.372	21.078	0.00	0.00
ATOM	7002	HB3	ALA	X	463	39.916	17.952	21.987	0.00	0.00
ATOM	7003	C	ALA	X	463	40.537	19.501	24.174	0.00	0.00
ATOM	7004	O	ALA	X	463	39.349	19.794	24.363	0.00	0.00
ATOM	7005	N	GLU	X	464	41.330	18.966	25.118	0.00	0.00
ATOM	7006	H	GLU	X	464	42.254	18.658	24.850	0.00	0.00
ATOM	7007	CA	GLU	X	464	40.997	18.886	26.522	0.00	0.00
ATOM	7008	HA	GLU	X	464	39.982	18.492	26.580	0.00	0.00
ATOM	7009	CB	GLU	X	464	42.042	17.967	27.253	0.00	0.00
ATOM	7010	HB2	GLU	X	464	41.671	17.980	28.278	0.00	0.00
ATOM	7011	HB3	GLU	X	464	41.884	16.916	27.008	0.00	0.00
ATOM	7012	CG	GLU	X	464	43.497	18.368	27.137	0.00	0.00
ATOM	7013	HG2	GLU	X	464	43.617	19.451	27.113	0.00	0.00
ATOM	7014	HG3	GLU	X	464	44.043	18.111	28.044	0.00	0.00
ATOM	7015	CD	GLU	X	464	44.154	17.640	25.928	0.00	0.00
ATOM	7016	OE1	GLU	X	464	43.542	17.457	24.827	0.00	0.00
ATOM	7017	OE2	GLU	X	464	45.277	17.123	26.172	0.00	0.00
ATOM	7018	C	GLU	X	464	40.895	20.240	27.197	0.00	0.00
ATOM	7019	O	GLU	X	464	40.074	20.450	28.045	0.00	0.00
ATOM	7020	N	GLU	X	465	41.721	21.268	26.831	0.00	0.00
ATOM	7021	H	GLU	X	465	42.272	21.214	25.986	0.00	0.00
ATOM	7022	CA	GLU	X	465	41.625	22.599	27.450	0.00	0.00
ATOM	7023	HA	GLU	X	465	41.620	22.414	28.524	0.00	0.00
ATOM	7024	CB	GLU	X	465	42.863	23.452	27.022	0.00	0.00
ATOM	7025	HB2	GLU	X	465	43.009	23.378	25.944	0.00	0.00
ATOM	7026	HB3	GLU	X	465	42.681	24.493	27.287	0.00	0.00
ATOM	7027	CG	GLU	X	465	44.122	23.013	27.760	0.00	0.00
ATOM	7028	HG2	GLU	X	465	44.026	23.303	28.807	0.00	0.00
ATOM	7029	HG3	GLU	X	465	44.219	21.930	27.692	0.00	0.00
ATOM	7030	CD	GLU	X	465	45.425	23.641	27.384	0.00	0.00
ATOM	7031	OE1	GLU	X	465	45.705	23.717	26.163	0.00	0.00
ATOM	7032	OE2	GLU	X	465	46.259	23.983	28.209	0.00	0.00
ATOM	7033	C	GLU	X	465	40.369	23.303	26.814	0.00	0.00
ATOM	7034	O	GLU	X	465	39.752	24.175	27.444	0.00	0.00
ATOM	7035	N	LYS	X	466	39.961	22.984	25.558	0.00	0.00
ATOM	7036	H	LYS	X	466	40.407	22.226	25.063	0.00	0.00
ATOM	7037	CA	LYS	X	466	38.763	23.606	24.886	0.00	0.00
ATOM	7038	HA	LYS	X	466	38.820	24.688	25.000	0.00	0.00
ATOM	7039	CB	LYS	X	466	38.771	23.240	23.386	0.00	0.00
ATOM	7040	HB2	LYS	X	466	38.839	22.170	23.188	0.00	0.00
ATOM	7041	HB3	LYS	X	466	37.833	23.532	22.914	0.00	0.00
ATOM	7042	CG	LYS	X	466	39.870	23.955	22.652	0.00	0.00
ATOM	7043	HG2	LYS	X	466	39.529	24.986	22.560	0.00	0.00
ATOM	7044	HG3	LYS	X	466	40.805	24.008	23.211	0.00	0.00
ATOM	7045	CD	LYS	X	466	40.160	23.430	21.216	0.00	0.00
ATOM	7046	HD2	LYS	X	466	40.546	22.412	21.266	0.00	0.00
ATOM	7047	HD3	LYS	X	466	39.154	23.369	20.800	0.00	0.00
ATOM	7048	CE	LYS	X	466	41.153	24.273	20.475	0.00	0.00
ATOM	7049	HE2	LYS	X	466	42.047	24.325	21.096	0.00	0.00
ATOM	7050	HE3	LYS	X	466	41.442	23.686	19.603	0.00	0.00
ATOM	7051	NZ	LYS	X	466	40.818	25.727	20.153	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	41.658	26.135	19.767	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	40.020	25.905	19.560	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	40.670	26.218	21.023	0.00	0.00
ATOM	7055	C	LYS	X	466	37.450	23.248	25.527	0.00	0.00
ATOM	7056	O	LYS	X	466	36.720	24.184	25.900	0.00	0.00
ATOM	7057	N	ILE	X	467	37.113	21.963	25.749	0.00	0.00
ATOM	7058	H	ILE	X	467	37.678	21.276	25.269	0.00	0.00
ATOM	7059	CA	ILE	X	467	35.954	21.492	26.529	0.00	0.00
ATOM	7060	HA	ILE	X	467	35.073	21.971	26.101	0.00	0.00
ATOM	7061	CB	ILE	X	467	35.732	19.980	26.261	0.00	0.00
ATOM	7062	HB	ILE	X	467	35.863	19.726	25.209	0.00	0.00
ATOM	7063	CG2	ILE	X	467	36.848	19.118	26.871	0.00	0.00
ATOM	7064	HG21	ILE	X	467	37.030	18.216	26.287	0.00	0.00
ATOM	7065	HG22	ILE	X	467	36.650	18.861	27.912	0.00	0.00
ATOM	7066	HG23	ILE	X	467	37.762	19.709	26.913	0.00	0.00

ATOM	7067	CG1	ILE	X	467	34.352	19.522	26.691	0.00	0.00
ATOM	7068	HG12	ILE	X	467	34.239	19.612	27.771	0.00	0.00
ATOM	7069	HG13	ILE	X	467	33.694	20.218	26.172	0.00	0.00
ATOM	7070	CD1	ILE	X	467	33.944	18.047	26.230	0.00	0.00
ATOM	7071	HD11	ILE	X	467	34.074	17.927	25.155	0.00	0.00
ATOM	7072	HD12	ILE	X	467	32.915	17.979	26.583	0.00	0.00
ATOM	7073	HD13	ILE	X	467	34.569	17.323	26.755	0.00	0.00
ATOM	7074	C	ILE	X	467	35.997	21.905	28.004	0.00	0.00
ATOM	7075	O	ILE	X	467	34.980	22.371	28.535	0.00	0.00
ATOM	7076	N	PHE	X	468	37.228	22.106	28.525	0.00	0.00
ATOM	7077	H	PHE	X	468	38.019	21.961	27.914	0.00	0.00
ATOM	7078	CA	PHE	X	468	37.504	22.657	29.868	0.00	0.00
ATOM	7079	HA	PHE	X	468	36.851	22.159	30.585	0.00	0.00
ATOM	7080	CB	PHE	X	468	38.925	22.388	30.235	0.00	0.00
ATOM	7081	HB2	PHE	X	468	39.038	21.305	30.184	0.00	0.00
ATOM	7082	HB3	PHE	X	468	39.508	22.809	29.416	0.00	0.00
ATOM	7083	CG	PHE	X	468	39.386	22.894	31.591	0.00	0.00
ATOM	7084	CD1	PHE	X	468	38.646	22.539	32.724	0.00	0.00
ATOM	7085	HD1	PHE	X	468	37.714	22.015	32.575	0.00	0.00
ATOM	7086	CE1	PHE	X	468	39.031	22.862	34.039	0.00	0.00
ATOM	7087	HE1	PHE	X	468	38.363	22.620	34.853	0.00	0.00
ATOM	7088	CZ	PHE	X	468	40.227	23.664	34.149	0.00	0.00
ATOM	7089	HZ	PHE	X	468	40.604	23.937	35.124	0.00	0.00
ATOM	7090	CE2	PHE	X	468	40.996	24.020	33.011	0.00	0.00
ATOM	7091	HE2	PHE	X	468	41.973	24.471	33.102	0.00	0.00
ATOM	7092	CD2	PHE	X	468	40.637	23.490	31.759	0.00	0.00
ATOM	7093	HD2	PHE	X	468	41.302	23.696	30.933	0.00	0.00
ATOM	7094	C	PHE	X	468	37.164	24.129	30.037	0.00	0.00
ATOM	7095	O	PHE	X	468	36.668	24.642	31.018	0.00	0.00
ATOM	7096	N	ALA	X	469	37.507	24.962	29.034	0.00	0.00
ATOM	7097	H	ALA	X	469	38.100	24.607	28.297	0.00	0.00
ATOM	7098	CA	ALA	X	469	37.062	26.319	28.945	0.00	0.00
ATOM	7099	HA	ALA	X	469	37.323	26.722	29.924	0.00	0.00
ATOM	7100	CB	ALA	X	469	37.793	27.027	27.798	0.00	0.00
ATOM	7101	HB1	ALA	X	469	38.839	26.722	27.826	0.00	0.00
ATOM	7102	HB2	ALA	X	469	37.859	28.092	28.019	0.00	0.00
ATOM	7103	HB3	ALA	X	469	37.244	26.821	26.879	0.00	0.00
ATOM	7104	C	ALA	X	469	35.524	26.447	28.865	0.00	0.00
ATOM	7105	O	ALA	X	469	34.897	27.152	29.660	0.00	0.00
ATOM	7106	N	GLN	X	470	34.862	25.586	28.072	0.00	0.00
ATOM	7107	H	GLN	X	470	35.453	25.044	27.458	0.00	0.00
ATOM	7108	CA	GLN	X	470	33.405	25.707	27.926	0.00	0.00
ATOM	7109	HA	GLN	X	470	33.191	26.773	27.845	0.00	0.00
ATOM	7110	CB	GLN	X	470	32.877	24.975	26.704	0.00	0.00
ATOM	7111	HB2	GLN	X	470	33.391	24.015	26.740	0.00	0.00
ATOM	7112	HB3	GLN	X	470	31.791	24.931	26.789	0.00	0.00
ATOM	7113	CG	GLN	X	470	33.197	25.753	25.402	0.00	0.00
ATOM	7114	HG2	GLN	X	470	32.552	26.622	25.269	0.00	0.00
ATOM	7115	HG3	GLN	X	470	34.251	26.022	25.464	0.00	0.00
ATOM	7116	CD	GLN	X	470	33.047	24.825	24.197	0.00	0.00
ATOM	7117	OE1	GLN	X	470	33.956	24.163	23.760	0.00	0.00
ATOM	7118	NE2	GLN	X	470	31.894	24.772	23.585	0.00	0.00
ATOM	7119	HE21	GLN	X	470	31.731	24.158	22.800	0.00	0.00
ATOM	7120	HE22	GLN	X	470	31.051	25.132	24.009	0.00	0.00
ATOM	7121	C	GLN	X	470	32.767	25.221	29.174	0.00	0.00
ATOM	7122	O	GLN	X	470	31.695	25.698	29.491	0.00	0.00
ATOM	7123	N	ARG	X	471	33.425	24.264	29.893	0.00	0.00
ATOM	7124	H	ARG	X	471	34.240	23.790	29.532	0.00	0.00
ATOM	7125	CA	ARG	X	471	32.962	23.874	31.267	0.00	0.00
ATOM	7126	HA	ARG	X	471	31.915	23.579	31.195	0.00	0.00
ATOM	7127	CB	ARG	X	471	33.808	22.663	31.626	0.00	0.00
ATOM	7128	HB2	ARG	X	471	33.708	21.885	30.868	0.00	0.00
ATOM	7129	HB3	ARG	X	471	34.810	23.068	31.766	0.00	0.00
ATOM	7130	CG	ARG	X	471	33.591	22.112	33.004	0.00	0.00
ATOM	7131	HG2	ARG	X	471	34.012	22.762	33.772	0.00	0.00
ATOM	7132	HG3	ARG	X	471	32.527	21.947	33.175	0.00	0.00
ATOM	7133	CD	ARG	X	471	34.288	20.732	33.033	0.00	0.00

ATOM	7134	HD2	ARG	X	471	33.531	20.008	32.731	0.00	0.00
ATOM	7135	HD3	ARG	X	471	35.167	20.680	32.390	0.00	0.00
ATOM	7136	NE	ARG	X	471	34.489	20.424	34.435	0.00	0.00
ATOM	7137	HE	ARG	X	471	33.621	20.448	34.951	0.00	0.00
ATOM	7138	CZ	ARG	X	471	35.586	19.908	35.016	0.00	0.00
ATOM	7139	NH1	ARG	X	471	36.622	19.489	34.321	0.00	0.00
ATOM	7140	HH11	ARG	X	471	36.613	19.671	33.327	0.00	0.00
ATOM	7141	HH12	ARG	X	471	37.467	19.238	34.814	0.00	0.00
ATOM	7142	NH2	ARG	X	471	35.578	19.638	36.260	0.00	0.00
ATOM	7143	HH21	ARG	X	471	34.759	19.855	36.809	0.00	0.00
ATOM	7144	HH22	ARG	X	471	36.434	19.285	36.664	0.00	0.00
ATOM	7145	C	ARG	X	471	33.098	25.073	32.333	0.00	0.00
ATOM	7146	O	ARG	X	471	32.180	25.474	33.064	0.00	0.00
ATOM	7147	N	LEU	X	472	34.213	25.680	32.406	0.00	0.00
ATOM	7148	H	LEU	X	472	35.051	25.294	31.995	0.00	0.00
ATOM	7149	CA	LEU	X	472	34.374	26.869	33.270	0.00	0.00
ATOM	7150	HA	LEU	X	472	34.045	26.555	34.260	0.00	0.00
ATOM	7151	CB	LEU	X	472	35.944	27.156	33.411	0.00	0.00
ATOM	7152	HB2	LEU	X	472	36.563	26.833	32.574	0.00	0.00
ATOM	7153	HB3	LEU	X	472	36.141	28.225	33.488	0.00	0.00
ATOM	7154	CG	LEU	X	472	36.519	26.549	34.709	0.00	0.00
ATOM	7155	HG	LEU	X	472	36.088	27.185	35.482	0.00	0.00
ATOM	7156	CD1	LEU	X	472	36.264	25.031	34.840	0.00	0.00
ATOM	7157	HD11	LEU	X	472	35.233	24.694	34.946	0.00	0.00
ATOM	7158	HD12	LEU	X	472	36.830	24.543	35.633	0.00	0.00
ATOM	7159	HD13	LEU	X	472	36.543	24.585	33.885	0.00	0.00
ATOM	7160	CD2	LEU	X	472	38.041	26.889	34.639	0.00	0.00
ATOM	7161	HD21	LEU	X	472	38.448	26.294	33.821	0.00	0.00
ATOM	7162	HD22	LEU	X	472	38.236	27.949	34.481	0.00	0.00
ATOM	7163	HD23	LEU	X	472	38.427	26.526	35.592	0.00	0.00
ATOM	7164	C	LEU	X	472	33.561	28.166	32.937	0.00	0.00
ATOM	7165	O	LEU	X	472	32.907	28.717	33.835	0.00	0.00
ATOM	7166	N	MET	X	473	33.358	28.440	31.643	0.00	0.00
ATOM	7167	H	MET	X	473	33.911	28.018	30.910	0.00	0.00
ATOM	7168	CA	MET	X	473	32.385	29.461	31.090	0.00	0.00
ATOM	7169	HA	MET	X	473	32.633	30.513	31.225	0.00	0.00
ATOM	7170	CB	MET	X	473	32.309	29.246	29.584	0.00	0.00
ATOM	7171	HB2	MET	X	473	32.491	28.187	29.401	0.00	0.00
ATOM	7172	HB3	MET	X	473	31.354	29.616	29.210	0.00	0.00
ATOM	7173	CG	MET	X	473	33.356	30.140	28.849	0.00	0.00
ATOM	7174	HG2	MET	X	473	33.032	31.179	28.918	0.00	0.00
ATOM	7175	HG3	MET	X	473	34.361	30.060	29.263	0.00	0.00
ATOM	7176	SD	MET	X	473	33.665	29.400	27.140	0.00	0.00
ATOM	7177	CE	MET	X	473	32.147	29.686	26.159	0.00	0.00
ATOM	7178	HE1	MET	X	473	31.884	30.744	26.182	0.00	0.00
ATOM	7179	HE2	MET	X	473	32.140	29.296	25.141	0.00	0.00
ATOM	7180	HE3	MET	X	473	31.386	29.221	26.785	0.00	0.00
ATOM	7181	C	MET	X	473	30.988	29.153	31.712	0.00	0.00
ATOM	7182	O	MET	X	473	30.290	30.071	32.162	0.00	0.00
ATOM	7183	N	ARG	X	474	30.545	27.899	31.633	0.00	0.00
ATOM	7184	H	ARG	X	474	31.184	27.244	31.206	0.00	0.00
ATOM	7185	CA	ARG	X	474	29.204	27.474	32.161	0.00	0.00
ATOM	7186	HA	ARG	X	474	28.429	28.156	31.811	0.00	0.00
ATOM	7187	CB	ARG	X	474	28.891	26.023	31.645	0.00	0.00
ATOM	7188	HB2	ARG	X	474	29.111	25.952	30.580	0.00	0.00
ATOM	7189	HB3	ARG	X	474	29.624	25.340	32.076	0.00	0.00
ATOM	7190	CG	ARG	X	474	27.501	25.503	31.974	0.00	0.00
ATOM	7191	HG2	ARG	X	474	27.431	24.508	31.534	0.00	0.00
ATOM	7192	HG3	ARG	X	474	27.177	25.553	33.013	0.00	0.00
ATOM	7193	CD	ARG	X	474	26.464	26.439	31.327	0.00	0.00
ATOM	7194	HD2	ARG	X	474	26.328	27.205	32.090	0.00	0.00
ATOM	7195	HD3	ARG	X	474	26.864	26.767	30.367	0.00	0.00
ATOM	7196	NE	ARG	X	474	25.188	25.709	30.946	0.00	0.00
ATOM	7197	HE	ARG	X	474	24.871	24.898	31.458	0.00	0.00
ATOM	7198	CZ	ARG	X	474	24.410	25.929	29.914	0.00	0.00
ATOM	7199	NH1	ARG	X	474	24.544	26.961	29.057	0.00	0.00
ATOM	7200	HH11	ARG	X	474	25.203	27.705	29.235	0.00	0.00

ATOM	7201	HH12	ARG	X	474	23.865	27.018	28.311	0.00	0.00
ATOM	7202	NH2	ARG	X	474	23.371	25.155	29.737	0.00	0.00
ATOM	7203	HH21	ARG	X	474	23.200	24.388	30.371	0.00	0.00
ATOM	7204	HH22	ARG	X	474	22.766	25.338	28.949	0.00	0.00
ATOM	7205	C	ARG	X	474	29.069	27.529	33.701	0.00	0.00
ATOM	7206	O	ARG	X	474	27.962	27.752	34.252	0.00	0.00
ATOM	7207	N	TYR	X	475	30.154	27.314	34.474	0.00	0.00
ATOM	7208	H	TYR	X	475	31.008	26.936	34.089	0.00	0.00
ATOM	7209	CA	TYR	X	475	30.041	27.504	35.942	0.00	0.00
ATOM	7210	HA	TYR	X	475	29.196	26.938	36.334	0.00	0.00
ATOM	7211	CB	TYR	X	475	31.305	26.948	36.701	0.00	0.00
ATOM	7212	HB2	TYR	X	475	32.185	27.388	36.231	0.00	0.00
ATOM	7213	HB3	TYR	X	475	31.406	27.407	37.684	0.00	0.00
ATOM	7214	CG	TYR	X	475	31.583	25.396	36.768	0.00	0.00
ATOM	7215	CD1	TYR	X	475	30.546	24.490	36.996	0.00	0.00
ATOM	7216	HD1	TYR	X	475	29.500	24.758	37.042	0.00	0.00
ATOM	7217	CE1	TYR	X	475	30.798	23.106	37.129	0.00	0.00
ATOM	7218	HE1	TYR	X	475	30.009	22.389	37.304	0.00	0.00
ATOM	7219	CZ	TYR	X	475	32.138	22.688	36.967	0.00	0.00
ATOM	7220	OH	TYR	X	475	32.458	21.380	37.131	0.00	0.00
ATOM	7221	HH	TYR	X	475	31.620	20.966	37.348	0.00	0.00
ATOM	7222	CE2	TYR	X	475	33.253	23.589	36.830	0.00	0.00
ATOM	7223	HE2	TYR	X	475	34.233	23.149	36.715	0.00	0.00
ATOM	7224	CD2	TYR	X	475	32.925	24.957	36.695	0.00	0.00
ATOM	7225	HD2	TYR	X	475	33.684	25.692	36.473	0.00	0.00
ATOM	7226	C	TYR	X	475	29.741	28.996	36.213	0.00	0.00
ATOM	7227	O	TYR	X	475	28.780	29.410	36.913	0.00	0.00
ATOM	7228	N	TRP	X	476	30.601	29.888	35.608	0.00	0.00
ATOM	7229	H	TRP	X	476	31.281	29.510	34.965	0.00	0.00
ATOM	7230	CA	TRP	X	476	30.618	31.305	35.848	0.00	0.00
ATOM	7231	HA	TRP	X	476	30.626	31.628	36.890	0.00	0.00
ATOM	7232	CB	TRP	X	476	31.764	32.085	35.216	0.00	0.00
ATOM	7233	HB2	TRP	X	476	32.078	31.537	34.328	0.00	0.00
ATOM	7234	HB3	TRP	X	476	31.464	33.002	34.710	0.00	0.00
ATOM	7235	CG	TRP	X	476	32.818	32.371	36.211	0.00	0.00
ATOM	7236	CD1	TRP	X	476	33.375	33.558	36.445	0.00	0.00
ATOM	7237	HD1	TRP	X	476	33.036	34.461	35.958	0.00	0.00
ATOM	7238	NE1	TRP	X	476	34.439	33.446	37.340	0.00	0.00
ATOM	7239	HE1	TRP	X	476	34.922	34.260	37.692	0.00	0.00
ATOM	7240	CE2	TRP	X	476	34.640	32.158	37.721	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	35.484	31.495	38.654	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	36.215	32.003	39.265	0.00	0.00
ATOM	7243	CH2	TRP	X	476	35.569	30.062	38.613	0.00	0.00
ATOM	7244	HH2	TRP	X	476	36.218	29.568	39.320	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	34.730	29.330	37.770	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	34.913	28.268	37.691	0.00	0.00
ATOM	7247	CE3	TRP	X	476	33.729	29.973	37.016	0.00	0.00
ATOM	7248	HE3	TRP	X	476	33.196	29.450	36.236	0.00	0.00
ATOM	7249	CD2	TRP	X	476	33.661	31.427	36.937	0.00	0.00
ATOM	7250	C	TRP	X	476	29.303	31.907	35.297	0.00	0.00
ATOM	7251	O	TRP	X	476	28.670	32.701	36.000	0.00	0.00
ATOM	7252	N	ALA	X	477	28.772	31.396	34.184	0.00	0.00
ATOM	7253	H	ALA	X	477	29.272	30.628	33.760	0.00	0.00
ATOM	7254	CA	ALA	X	477	27.498	31.868	33.592	0.00	0.00
ATOM	7255	HA	ALA	X	477	27.423	32.956	33.619	0.00	0.00
ATOM	7256	CB	ALA	X	477	27.442	31.566	32.062	0.00	0.00
ATOM	7257	HB1	ALA	X	477	26.402	31.440	31.760	0.00	0.00
ATOM	7258	HB2	ALA	X	477	27.944	30.614	31.888	0.00	0.00
ATOM	7259	HB3	ALA	X	477	27.808	32.390	31.449	0.00	0.00
ATOM	7260	C	ALA	X	477	26.192	31.374	34.252	0.00	0.00
ATOM	7261	O	ALA	X	477	25.269	32.188	34.527	0.00	0.00
ATOM	7262	N	ASN	X	478	26.137	30.138	34.763	0.00	0.00
ATOM	7263	H	ASN	X	478	26.873	29.478	34.558	0.00	0.00
ATOM	7264	CA	ASN	X	478	25.043	29.694	35.611	0.00	0.00
ATOM	7265	HA	ASN	X	478	24.077	29.773	35.111	0.00	0.00
ATOM	7266	CB	ASN	X	478	25.259	28.232	35.943	0.00	0.00
ATOM	7267	HB2	ASN	X	478	26.277	28.004	36.259	0.00	0.00

ATOM	7268	HB3	ASN	X	478	24.579	27.982	36.758	0.00	0.00
ATOM	7269	CG	ASN	X	478	24.947	27.233	34.848	0.00	0.00
ATOM	7270	OD1	ASN	X	478	24.108	27.435	33.942	0.00	0.00
ATOM	7271	ND2	ASN	X	478	25.471	26.014	34.954	0.00	0.00
ATOM	7272	HD21	ASN	X	478	24.943	25.297	34.477	0.00	0.00
ATOM	7273	HD22	ASN	X	478	26.083	25.808	35.730	0.00	0.00
ATOM	7274	C	ASN	X	478	24.942	30.482	36.917	0.00	0.00
ATOM	7275	O	ASN	X	478	23.751	30.735	37.315	0.00	0.00
ATOM	7276	N	PHE	X	479	26.028	30.822	37.643	0.00	0.00
ATOM	7277	H	PHE	X	479	26.885	30.501	37.217	0.00	0.00
ATOM	7278	CA	PHE	X	479	25.988	31.728	38.780	0.00	0.00
ATOM	7279	HA	PHE	X	479	25.391	31.301	39.587	0.00	0.00
ATOM	7280	CB	PHE	X	479	27.419	32.049	39.288	0.00	0.00
ATOM	7281	HB2	PHE	X	479	28.014	31.178	39.560	0.00	0.00
ATOM	7282	HB3	PHE	X	479	27.986	32.580	38.523	0.00	0.00
ATOM	7283	CG	PHE	X	479	27.374	32.979	40.482	0.00	0.00
ATOM	7284	CD1	PHE	X	479	27.105	32.467	41.778	0.00	0.00
ATOM	7285	HD1	PHE	X	479	26.776	31.460	41.992	0.00	0.00
ATOM	7286	CE1	PHE	X	479	27.031	33.405	42.805	0.00	0.00
ATOM	7287	HE1	PHE	X	479	26.734	33.082	43.792	0.00	0.00
ATOM	7288	CZ	PHE	X	479	27.229	34.734	42.574	0.00	0.00
ATOM	7289	HZ	PHE	X	479	27.136	35.329	43.470	0.00	0.00
ATOM	7290	CE2	PHE	X	479	27.618	35.215	41.303	0.00	0.00
ATOM	7291	HE2	PHE	X	479	27.913	36.233	41.092	0.00	0.00
ATOM	7292	CD2	PHE	X	479	27.627	34.341	40.211	0.00	0.00
ATOM	7293	HD2	PHE	X	479	27.951	34.632	39.222	0.00	0.00
ATOM	7294	C	PHE	X	479	25.320	33.022	38.282	0.00	0.00
ATOM	7295	O	PHE	X	479	24.548	33.562	39.080	0.00	0.00
ATOM	7296	N	ALA	X	480	25.630	33.551	37.096	0.00	0.00
ATOM	7297	H	ALA	X	480	26.142	33.116	36.342	0.00	0.00
ATOM	7298	CA	ALA	X	480	25.015	34.842	36.692	0.00	0.00
ATOM	7299	HA	ALA	X	480	25.248	35.584	37.456	0.00	0.00
ATOM	7300	CB	ALA	X	480	25.776	35.383	35.528	0.00	0.00
ATOM	7301	HB1	ALA	X	480	26.853	35.285	35.668	0.00	0.00
ATOM	7302	HB2	ALA	X	480	25.604	36.459	35.510	0.00	0.00
ATOM	7303	HB3	ALA	X	480	25.414	34.937	34.601	0.00	0.00
ATOM	7304	C	ALA	X	480	23.547	34.776	36.420	0.00	0.00
ATOM	7305	O	ALA	X	480	22.788	35.534	37.030	0.00	0.00
ATOM	7306	N	ARG	X	481	23.135	33.755	35.648	0.00	0.00
ATOM	7307	H	ARG	X	481	23.906	33.203	35.300	0.00	0.00
ATOM	7308	CA	ARG	X	481	21.848	33.151	35.739	0.00	0.00
ATOM	7309	HA	ARG	X	481	21.089	33.760	35.248	0.00	0.00
ATOM	7310	CB	ARG	X	481	21.776	31.877	34.906	0.00	0.00
ATOM	7311	HB2	ARG	X	481	22.535	31.166	35.232	0.00	0.00
ATOM	7312	HB3	ARG	X	481	20.828	31.374	35.097	0.00	0.00
ATOM	7313	CG	ARG	X	481	21.961	31.981	33.384	0.00	0.00
ATOM	7314	HG2	ARG	X	481	21.109	32.580	33.063	0.00	0.00
ATOM	7315	HG3	ARG	X	481	22.934	32.411	33.143	0.00	0.00
ATOM	7316	CD	ARG	X	481	21.869	30.549	32.796	0.00	0.00
ATOM	7317	HD2	ARG	X	481	22.373	29.801	33.407	0.00	0.00
ATOM	7318	HD3	ARG	X	481	20.793	30.378	32.748	0.00	0.00
ATOM	7319	NE	ARG	X	481	22.397	30.671	31.490	0.00	0.00
ATOM	7320	HE	ARG	X	481	21.870	31.289	30.890	0.00	0.00
ATOM	7321	CZ	ARG	X	481	23.478	30.078	30.987	0.00	0.00
ATOM	7322	NH1	ARG	X	481	24.289	29.190	31.555	0.00	0.00
ATOM	7323	HH11	ARG	X	481	24.087	28.767	32.449	0.00	0.00
ATOM	7324	HH12	ARG	X	481	24.977	28.696	31.003	0.00	0.00
ATOM	7325	NH2	ARG	X	481	23.780	30.480	29.791	0.00	0.00
ATOM	7326	HH21	ARG	X	481	23.414	31.283	29.299	0.00	0.00
ATOM	7327	HH22	ARG	X	481	24.629	30.091	29.408	0.00	0.00
ATOM	7328	C	ARG	X	481	21.172	33.024	37.129	0.00	0.00
ATOM	7329	O	ARG	X	481	20.550	33.941	37.642	0.00	0.00
ATOM	7330	N	THR	X	482	21.214	31.802	37.720	0.00	0.00
ATOM	7331	H	THR	X	482	21.956	31.204	37.387	0.00	0.00
ATOM	7332	CA	THR	X	482	20.480	31.446	39.019	0.00	0.00
ATOM	7333	HA	THR	X	482	19.632	32.128	39.064	0.00	0.00
ATOM	7334	CB	THR	X	482	19.734	30.093	38.952	0.00	0.00

ATOM	7335	HB	THR	X	482	20.309	29.229	39.286	0.00	0.00
ATOM	7336	CG2	THR	X	482	18.382	29.986	39.792	0.00	0.00
ATOM	7337	HG21	THR	X	482	18.573	29.836	40.854	0.00	0.00
ATOM	7338	HG22	THR	X	482	17.792	29.189	39.339	0.00	0.00
ATOM	7339	HG23	THR	X	482	17.858	30.941	39.748	0.00	0.00
ATOM	7340	OG1	THR	X	482	19.340	30.004	37.620	0.00	0.00
ATOM	7341	HG1	THR	X	482	19.987	29.571	37.057	0.00	0.00
ATOM	7342	C	THR	X	482	21.146	31.658	40.386	0.00	0.00
ATOM	7343	O	THR	X	482	20.592	31.259	41.405	0.00	0.00
ATOM	7344	N	GLY	X	483	22.316	32.199	40.389	0.00	0.00
ATOM	7345	H	GLY	X	483	22.790	32.524	39.558	0.00	0.00
ATOM	7346	CA	GLY	X	483	23.016	32.406	41.614	0.00	0.00
ATOM	7347	HA2	GLY	X	483	23.837	33.103	41.445	0.00	0.00
ATOM	7348	HA3	GLY	X	483	22.424	32.723	42.473	0.00	0.00
ATOM	7349	C	GLY	X	483	23.602	31.135	42.120	0.00	0.00
ATOM	7350	O	GLY	X	483	24.338	31.089	43.129	0.00	0.00
ATOM	7351	N	ASP	X	484	23.482	30.052	41.353	0.00	0.00
ATOM	7352	H	ASP	X	484	22.871	30.084	40.549	0.00	0.00
ATOM	7353	CA	ASP	X	484	24.227	28.757	41.642	0.00	0.00
ATOM	7354	HA	ASP	X	484	25.027	28.916	42.365	0.00	0.00
ATOM	7355	CB	ASP	X	484	23.173	27.768	42.169	0.00	0.00
ATOM	7356	HB2	ASP	X	484	22.887	28.050	43.183	0.00	0.00
ATOM	7357	HB3	ASP	X	484	22.263	27.859	41.575	0.00	0.00
ATOM	7358	CG	ASP	X	484	23.550	26.278	42.185	0.00	0.00
ATOM	7359	OD1	ASP	X	484	24.756	25.891	42.301	0.00	0.00
ATOM	7360	OD2	ASP	X	484	22.664	25.404	42.237	0.00	0.00
ATOM	7361	C	ASP	X	484	24.935	28.173	40.334	0.00	0.00
ATOM	7362	O	ASP	X	484	24.384	28.066	39.226	0.00	0.00
ATOM	7363	N	PRO	X	485	26.177	27.637	40.476	0.00	0.00
ATOM	7364	CD	PRO	X	485	27.134	28.226	41.496	0.00	0.00
ATOM	7365	HD2	PRO	X	485	27.173	27.543	42.345	0.00	0.00
ATOM	7366	HD3	PRO	X	485	26.842	29.210	41.862	0.00	0.00
ATOM	7367	CG	PRO	X	485	28.415	28.327	40.751	0.00	0.00
ATOM	7368	HG2	PRO	X	485	29.341	28.477	41.306	0.00	0.00
ATOM	7369	HG3	PRO	X	485	28.366	29.097	39.981	0.00	0.00
ATOM	7370	CB	PRO	X	485	28.375	27.002	39.932	0.00	0.00
ATOM	7371	HB2	PRO	X	485	28.562	26.125	40.552	0.00	0.00
ATOM	7372	HB3	PRO	X	485	29.105	27.067	39.125	0.00	0.00
ATOM	7373	CA	PRO	X	485	26.915	27.065	39.407	0.00	0.00
ATOM	7374	HA	PRO	X	485	26.898	27.827	38.628	0.00	0.00
ATOM	7375	C	PRO	X	485	26.492	25.704	38.823	0.00	0.00
ATOM	7376	O	PRO	X	485	26.779	25.410	37.649	0.00	0.00
ATOM	7377	N	ASN	X	486	25.851	24.805	39.627	0.00	0.00
ATOM	7378	H	ASN	X	486	25.632	24.998	40.594	0.00	0.00
ATOM	7379	CA	ASN	X	486	25.230	23.516	39.152	0.00	0.00
ATOM	7380	HA	ASN	X	486	25.989	22.886	38.689	0.00	0.00
ATOM	7381	CB	ASN	X	486	24.690	22.772	40.340	0.00	0.00
ATOM	7382	HB2	ASN	X	486	25.422	22.776	41.148	0.00	0.00
ATOM	7383	HB3	ASN	X	486	23.833	23.357	40.676	0.00	0.00
ATOM	7384	CG	ASN	X	486	24.111	21.387	40.086	0.00	0.00
ATOM	7385	OD1	ASN	X	486	24.218	20.792	39.019	0.00	0.00
ATOM	7386	ND2	ASN	X	486	23.482	20.706	41.002	0.00	0.00
ATOM	7387	HD21	ASN	X	486	23.111	19.781	40.840	0.00	0.00
ATOM	7388	HD22	ASN	X	486	23.201	21.190	41.843	0.00	0.00
ATOM	7389	C	ASN	X	486	24.175	23.758	38.024	0.00	0.00
ATOM	7390	O	ASN	X	486	23.336	24.621	38.080	0.00	0.00
ATOM	7391	N	GLU	X	487	24.306	23.102	36.881	0.00	0.00
ATOM	7392	H	GLU	X	487	25.072	22.452	36.776	0.00	0.00
ATOM	7393	CA	GLU	X	487	23.268	23.006	35.823	0.00	0.00
ATOM	7394	HA	GLU	X	487	23.122	23.985	35.365	0.00	0.00
ATOM	7395	CB	GLU	X	487	23.735	21.978	34.794	0.00	0.00
ATOM	7396	HB2	GLU	X	487	24.103	21.082	35.293	0.00	0.00
ATOM	7397	HB3	GLU	X	487	22.903	21.755	34.127	0.00	0.00
ATOM	7398	CG	GLU	X	487	24.847	22.458	33.889	0.00	0.00
ATOM	7399	HG2	GLU	X	487	25.714	22.924	34.356	0.00	0.00
ATOM	7400	HG3	GLU	X	487	25.359	21.596	33.462	0.00	0.00
ATOM	7401	CD	GLU	X	487	24.208	23.185	32.685	0.00	0.00

ATOM	7402	OE1	GLU	X	487	23.927	22.614	31.609	0.00	0.00
ATOM	7403	OE2	GLU	X	487	23.916	24.395	32.973	0.00	0.00
ATOM	7404	C	GLU	X	487	21.844	22.604	36.303	0.00	0.00
ATOM	7405	O	GLU	X	487	21.640	21.761	37.169	0.00	0.00
ATOM	7406	N	PRO	X	488	20.789	23.275	35.719	0.00	0.00
ATOM	7407	CD	PRO	X	488	20.769	24.037	34.496	0.00	0.00
ATOM	7408	HD2	PRO	X	488	20.981	23.404	33.634	0.00	0.00
ATOM	7409	HD3	PRO	X	488	21.348	24.945	34.661	0.00	0.00
ATOM	7410	CG	PRO	X	488	19.345	24.662	34.287	0.00	0.00
ATOM	7411	HG2	PRO	X	488	18.914	24.644	33.286	0.00	0.00
ATOM	7412	HG3	PRO	X	488	19.387	25.610	34.822	0.00	0.00
ATOM	7413	CB	PRO	X	488	18.554	23.725	35.060	0.00	0.00
ATOM	7414	HB2	PRO	X	488	18.164	23.010	34.337	0.00	0.00
ATOM	7415	HB3	PRO	X	488	17.714	24.280	35.479	0.00	0.00
ATOM	7416	CA	PRO	X	488	19.401	23.110	36.185	0.00	0.00
ATOM	7417	HA	PRO	X	488	19.292	23.703	37.093	0.00	0.00
ATOM	7418	C	PRO	X	488	18.923	21.641	36.476	0.00	0.00
ATOM	7419	O	PRO	X	488	18.363	21.350	37.523	0.00	0.00
ATOM	7420	N	ARG	X	489	19.240	20.711	35.571	0.00	0.00
ATOM	7421	H	ARG	X	489	19.566	21.062	34.682	0.00	0.00
ATOM	7422	CA	ARG	X	489	18.959	19.255	35.624	0.00	0.00
ATOM	7423	HA	ARG	X	489	17.903	19.002	35.531	0.00	0.00
ATOM	7424	CB	ARG	X	489	19.386	18.755	34.204	0.00	0.00
ATOM	7425	HB2	ARG	X	489	19.059	17.725	34.060	0.00	0.00
ATOM	7426	HB3	ARG	X	489	18.977	19.364	33.398	0.00	0.00
ATOM	7427	CG	ARG	X	489	20.844	18.539	33.940	0.00	0.00
ATOM	7428	HG2	ARG	X	489	21.462	19.436	33.960	0.00	0.00
ATOM	7429	HG3	ARG	X	489	21.206	17.871	34.722	0.00	0.00
ATOM	7430	CD	ARG	X	489	21.101	17.870	32.591	0.00	0.00
ATOM	7431	HD2	ARG	X	489	20.544	16.949	32.419	0.00	0.00
ATOM	7432	HD3	ARG	X	489	20.767	18.598	31.852	0.00	0.00
ATOM	7433	NE	ARG	X	489	22.535	17.673	32.293	0.00	0.00
ATOM	7434	HE	ARG	X	489	23.070	18.489	32.032	0.00	0.00
ATOM	7435	CZ	ARG	X	489	23.195	16.502	32.404	0.00	0.00
ATOM	7436	NH1	ARG	X	489	24.451	16.435	32.043	0.00	0.00
ATOM	7437	HH11	ARG	X	489	24.916	17.306	31.831	0.00	0.00
ATOM	7438	HH12	ARG	X	489	24.941	15.568	32.214	0.00	0.00
ATOM	7439	NH2	ARG	X	489	22.622	15.398	32.798	0.00	0.00
ATOM	7440	HH21	ARG	X	489	21.629	15.320	32.969	0.00	0.00
ATOM	7441	HH22	ARG	X	489	23.217	14.593	32.934	0.00	0.00
ATOM	7442	C	ARG	X	489	19.547	18.412	36.707	0.00	0.00
ATOM	7443	O	ARG	X	489	19.557	17.191	36.659	0.00	0.00
ATOM	7444	N	ASP	X	490	20.412	19.001	37.547	0.00	0.00
ATOM	7445	H	ASP	X	490	20.409	20.006	37.446	0.00	0.00
ATOM	7446	CA	ASP	X	490	21.268	18.324	38.477	0.00	0.00
ATOM	7447	HA	ASP	X	490	22.046	19.002	38.827	0.00	0.00
ATOM	7448	CB	ASP	X	490	20.421	17.958	39.757	0.00	0.00
ATOM	7449	HB2	ASP	X	490	19.990	18.907	40.075	0.00	0.00
ATOM	7450	HB3	ASP	X	490	19.604	17.296	39.471	0.00	0.00
ATOM	7451	CG	ASP	X	490	21.228	17.570	41.029	0.00	0.00
ATOM	7452	OD1	ASP	X	490	20.629	16.965	41.955	0.00	0.00
ATOM	7453	OD2	ASP	X	490	22.380	17.926	41.092	0.00	0.00
ATOM	7454	C	ASP	X	490	22.002	17.100	37.949	0.00	0.00
ATOM	7455	O	ASP	X	490	21.563	15.984	38.152	0.00	0.00
ATOM	7456	N	PRO	X	491	23.052	17.339	37.168	0.00	0.00
ATOM	7457	CD	PRO	X	491	23.712	18.595	36.822	0.00	0.00
ATOM	7458	HD2	PRO	X	491	24.472	18.906	37.539	0.00	0.00
ATOM	7459	HD3	PRO	X	491	23.058	19.424	36.551	0.00	0.00
ATOM	7460	CG	PRO	X	491	24.468	18.308	35.535	0.00	0.00
ATOM	7461	HG2	PRO	X	491	25.331	18.939	35.321	0.00	0.00
ATOM	7462	HG3	PRO	X	491	23.740	18.342	34.725	0.00	0.00
ATOM	7463	CB	PRO	X	491	24.951	16.887	35.796	0.00	0.00
ATOM	7464	HB2	PRO	X	491	25.892	16.910	36.345	0.00	0.00
ATOM	7465	HB3	PRO	X	491	25.099	16.351	34.858	0.00	0.00
ATOM	7466	CA	PRO	X	491	23.790	16.255	36.476	0.00	0.00
ATOM	7467	HA	PRO	X	491	23.054	15.915	35.747	0.00	0.00
ATOM	7468	C	PRO	X	491	24.320	15.118	37.316	0.00	0.00

ATOM	7469	O	PRO	X	491	24.832	15.437	38.378	0.00	0.00
ATOM	7470	N	LYS	X	492	24.392	13.909	36.812	0.00	0.00
ATOM	7471	H	LYS	X	492	24.068	13.900	35.855	0.00	0.00
ATOM	7472	CA	LYS	X	492	25.034	12.766	37.500	0.00	0.00
ATOM	7473	HA	LYS	X	492	24.720	12.864	38.539	0.00	0.00
ATOM	7474	CB	LYS	X	492	24.518	11.438	36.978	0.00	0.00
ATOM	7475	HB2	LYS	X	492	24.767	10.686	37.727	0.00	0.00
ATOM	7476	HB3	LYS	X	492	23.428	11.422	37.018	0.00	0.00
ATOM	7477	CG	LYS	X	492	25.012	10.839	35.609	0.00	0.00
ATOM	7478	HG2	LYS	X	492	24.855	11.637	34.884	0.00	0.00
ATOM	7479	HG3	LYS	X	492	26.024	10.434	35.649	0.00	0.00
ATOM	7480	CD	LYS	X	492	24.065	9.747	35.123	0.00	0.00
ATOM	7481	HD2	LYS	X	492	23.964	8.937	35.846	0.00	0.00
ATOM	7482	HD3	LYS	X	492	23.158	10.350	35.150	0.00	0.00
ATOM	7483	CE	LYS	X	492	24.460	9.177	33.757	0.00	0.00
ATOM	7484	HE2	LYS	X	492	24.595	9.981	33.033	0.00	0.00
ATOM	7485	HE3	LYS	X	492	25.454	8.741	33.661	0.00	0.00
ATOM	7486	NZ	LYS	X	492	23.419	8.210	33.318	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	23.198	7.577	34.074	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	22.610	8.656	32.910	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	23.793	7.596	32.609	0.00	0.00
ATOM	7490	C	LYS	X	492	26.619	12.837	37.715	0.00	0.00
ATOM	7491	O	LYS	X	492	27.204	11.966	38.419	0.00	0.00
ATOM	7492	N	ALA	X	493	27.353	13.822	37.182	0.00	0.00
ATOM	7493	H	ALA	X	493	26.930	14.605	36.705	0.00	0.00
ATOM	7494	CA	ALA	X	493	28.717	14.207	37.638	0.00	0.00
ATOM	7495	HA	ALA	X	493	29.409	13.365	37.659	0.00	0.00
ATOM	7496	CB	ALA	X	493	29.174	15.044	36.453	0.00	0.00
ATOM	7497	HB1	ALA	X	493	28.439	15.826	36.259	0.00	0.00
ATOM	7498	HB2	ALA	X	493	29.228	14.436	35.550	0.00	0.00
ATOM	7499	HB3	ALA	X	493	30.155	15.494	36.608	0.00	0.00
ATOM	7500	C	ALA	X	493	28.767	14.987	38.951	0.00	0.00
ATOM	7501	O	ALA	X	493	27.769	15.632	39.262	0.00	0.00
ATOM	7502	N	PRO	X	494	29.988	15.093	39.571	0.00	0.00
ATOM	7503	CD	PRO	X	494	31.233	14.459	39.168	0.00	0.00
ATOM	7504	HD2	PRO	X	494	31.532	14.765	38.166	0.00	0.00
ATOM	7505	HD3	PRO	X	494	31.111	13.376	39.149	0.00	0.00
ATOM	7506	CG	PRO	X	494	32.258	14.859	40.249	0.00	0.00
ATOM	7507	HG2	PRO	X	494	33.098	15.461	39.905	0.00	0.00
ATOM	7508	HG3	PRO	X	494	32.657	13.911	40.612	0.00	0.00
ATOM	7509	CB	PRO	X	494	31.469	15.529	41.359	0.00	0.00
ATOM	7510	HB2	PRO	X	494	31.961	16.401	41.789	0.00	0.00
ATOM	7511	HB3	PRO	X	494	31.423	14.689	42.052	0.00	0.00
ATOM	7512	CA	PRO	X	494	30.073	15.907	40.841	0.00	0.00
ATOM	7513	HA	PRO	X	494	29.297	15.512	41.497	0.00	0.00
ATOM	7514	C	PRO	X	494	29.878	17.457	40.701	0.00	0.00
ATOM	7515	O	PRO	X	494	30.260	18.063	39.724	0.00	0.00
ATOM	7516	N	GLN	X	495	29.282	18.111	41.785	0.00	0.00
ATOM	7517	H	GLN	X	495	28.840	17.503	42.460	0.00	0.00
ATOM	7518	CA	GLN	X	495	28.815	19.458	41.737	0.00	0.00
ATOM	7519	HA	GLN	X	495	29.243	19.932	40.854	0.00	0.00
ATOM	7520	CB	GLN	X	495	27.320	19.497	41.691	0.00	0.00
ATOM	7521	HB2	GLN	X	495	27.013	19.170	42.685	0.00	0.00
ATOM	7522	HB3	GLN	X	495	26.973	20.530	41.747	0.00	0.00
ATOM	7523	CG	GLN	X	495	26.656	18.662	40.519	0.00	0.00
ATOM	7524	HG2	GLN	X	495	26.917	17.610	40.630	0.00	0.00
ATOM	7525	HG3	GLN	X	495	25.567	18.714	40.526	0.00	0.00
ATOM	7526	CD	GLN	X	495	27.094	19.160	39.133	0.00	0.00
ATOM	7527	OE1	GLN	X	495	27.388	20.285	38.771	0.00	0.00
ATOM	7528	NE2	GLN	X	495	27.222	18.223	38.196	0.00	0.00
ATOM	7529	HE21	GLN	X	495	27.450	18.489	37.249	0.00	0.00
ATOM	7530	HE22	GLN	X	495	27.141	17.242	38.423	0.00	0.00
ATOM	7531	C	GLN	X	495	29.274	20.312	42.962	0.00	0.00
ATOM	7532	O	GLN	X	495	29.671	19.870	44.061	0.00	0.00
ATOM	7533	N	TRP	X	496	29.383	21.665	42.720	0.00	0.00
ATOM	7534	H	TRP	X	496	28.908	22.059	41.920	0.00	0.00
ATOM	7535	CA	TRP	X	496	30.011	22.660	43.624	0.00	0.00

ATOM	7536	HA	TRP	X	496	31.029	22.316	43.802	0.00	0.00
ATOM	7537	CB	TRP	X	496	30.041	24.008	42.847	0.00	0.00
ATOM	7538	HB2	TRP	X	496	30.276	23.696	41.829	0.00	0.00
ATOM	7539	HB3	TRP	X	496	29.052	24.458	42.936	0.00	0.00
ATOM	7540	CG	TRP	X	496	31.103	25.011	43.215	0.00	0.00
ATOM	7541	CD1	TRP	X	496	31.578	25.172	44.469	0.00	0.00
ATOM	7542	HD1	TRP	X	496	31.243	24.591	45.315	0.00	0.00
ATOM	7543	NE1	TRP	X	496	32.439	26.241	44.501	0.00	0.00
ATOM	7544	HE1	TRP	X	496	32.989	26.461	45.319	0.00	0.00
ATOM	7545	CE2	TRP	X	496	32.650	26.713	43.226	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	33.382	27.846	42.769	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	33.986	28.431	43.446	0.00	0.00
ATOM	7548	CH2	TRP	X	496	33.440	28.071	41.387	0.00	0.00
ATOM	7549	HH2	TRP	X	496	34.109	28.864	41.089	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	32.776	27.196	40.530	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	32.997	27.269	39.475	0.00	0.00
ATOM	7552	CE3	TRP	X	496	31.896	26.225	41.005	0.00	0.00
ATOM	7553	HE3	TRP	X	496	31.179	25.800	40.319	0.00	0.00
ATOM	7554	CD2	TRP	X	496	31.835	25.928	42.380	0.00	0.00
ATOM	7555	C	TRP	X	496	29.173	22.854	44.927	0.00	0.00
ATOM	7556	O	TRP	X	496	27.954	23.042	44.904	0.00	0.00
ATOM	7557	N	PRO	X	497	29.783	22.651	46.067	0.00	0.00
ATOM	7558	CD	PRO	X	497	31.163	22.242	46.392	0.00	0.00
ATOM	7559	HD2	PRO	X	497	31.830	23.028	46.746	0.00	0.00
ATOM	7560	HD3	PRO	X	497	31.649	21.673	45.600	0.00	0.00
ATOM	7561	CG	PRO	X	497	31.013	21.455	47.650	0.00	0.00
ATOM	7562	HG2	PRO	X	497	31.926	21.448	48.246	0.00	0.00
ATOM	7563	HG3	PRO	X	497	30.830	20.429	47.332	0.00	0.00
ATOM	7564	CB	PRO	X	497	29.871	22.085	48.370	0.00	0.00
ATOM	7565	HB2	PRO	X	497	30.244	22.773	49.129	0.00	0.00
ATOM	7566	HB3	PRO	X	497	29.264	21.325	48.863	0.00	0.00
ATOM	7567	CA	PRO	X	497	29.071	22.787	47.292	0.00	0.00
ATOM	7568	HA	PRO	X	497	28.140	22.229	47.187	0.00	0.00
ATOM	7569	C	PRO	X	497	28.878	24.285	47.595	0.00	0.00
ATOM	7570	O	PRO	X	497	29.788	25.018	47.173	0.00	0.00
ATOM	7571	N	PRO	X	498	27.804	24.649	48.295	0.00	0.00
ATOM	7572	CD	PRO	X	498	26.627	23.863	48.744	0.00	0.00
ATOM	7573	HD2	PRO	X	498	26.906	22.909	49.191	0.00	0.00
ATOM	7574	HD3	PRO	X	498	25.984	23.655	47.888	0.00	0.00
ATOM	7575	CG	PRO	X	498	25.978	24.798	49.774	0.00	0.00
ATOM	7576	HG2	PRO	X	498	26.246	24.581	50.808	0.00	0.00
ATOM	7577	HG3	PRO	X	498	24.904	24.644	49.664	0.00	0.00
ATOM	7578	CB	PRO	X	498	26.388	26.207	49.423	0.00	0.00
ATOM	7579	HB2	PRO	X	498	26.198	26.830	50.297	0.00	0.00
ATOM	7580	HB3	PRO	X	498	25.745	26.566	48.620	0.00	0.00
ATOM	7581	CA	PRO	X	498	27.827	25.946	48.992	0.00	0.00
ATOM	7582	HA	PRO	X	498	28.107	26.745	48.305	0.00	0.00
ATOM	7583	C	PRO	X	498	28.810	25.935	50.054	0.00	0.00
ATOM	7584	O	PRO	X	498	28.818	25.020	50.917	0.00	0.00
ATOM	7585	N	TYR	X	499	29.799	26.815	50.036	0.00	0.00
ATOM	7586	H	TYR	X	499	29.829	27.471	49.268	0.00	0.00
ATOM	7587	CA	TYR	X	499	30.804	27.021	51.102	0.00	0.00
ATOM	7588	HA	TYR	X	499	31.425	26.141	51.275	0.00	0.00
ATOM	7589	CB	TYR	X	499	31.803	28.080	50.676	0.00	0.00
ATOM	7590	HB2	TYR	X	499	32.203	27.815	49.697	0.00	0.00
ATOM	7591	HB3	TYR	X	499	31.401	29.080	50.515	0.00	0.00
ATOM	7592	CG	TYR	X	499	32.979	28.290	51.711	0.00	0.00
ATOM	7593	CD1	TYR	X	499	32.851	28.930	52.946	0.00	0.00
ATOM	7594	HD1	TYR	X	499	31.893	29.314	53.261	0.00	0.00
ATOM	7595	CE1	TYR	X	499	33.936	29.234	53.761	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.853	29.777	54.691	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.201	28.841	53.338	0.00	0.00
ATOM	7598	OH	TYR	X	499	36.357	29.049	54.037	0.00	0.00
ATOM	7599	HH	TYR	X	499	36.108	29.404	54.893	0.00	0.00
ATOM	7600	CE2	TYR	X	499	35.341	28.103	52.136	0.00	0.00
ATOM	7601	HE2	TYR	X	499	36.285	27.729	51.770	0.00	0.00
ATOM	7602	CD2	TYR	X	499	34.209	27.892	51.326	0.00	0.00

ATOM	7603	HD2	TYR	X	499	34.375	27.481	50.341	0.00	0.00
ATOM	7604	C	TYR	X	499	30.074	27.482	52.449	0.00	0.00
ATOM	7605	O	TYR	X	499	29.465	28.594	52.544	0.00	0.00
ATOM	7606	N	THR	X	500	30.142	26.663	53.535	0.00	0.00
ATOM	7607	H	THR	X	500	30.771	25.875	53.482	0.00	0.00
ATOM	7608	CA	THR	X	500	29.521	26.805	54.870	0.00	0.00
ATOM	7609	HA	THR	X	500	28.921	27.710	54.963	0.00	0.00
ATOM	7610	CB	THR	X	500	28.606	25.595	55.103	0.00	0.00
ATOM	7611	HB	THR	X	500	28.116	25.762	56.062	0.00	0.00
ATOM	7612	CG2	THR	X	500	27.545	25.330	54.092	0.00	0.00
ATOM	7613	HG21	THR	X	500	27.904	24.912	53.151	0.00	0.00
ATOM	7614	HG22	THR	X	500	26.999	26.259	53.930	0.00	0.00
ATOM	7615	HG23	THR	X	500	26.843	24.687	54.624	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.393	24.472	55.178	0.00	0.00
ATOM	7617	HG1	THR	X	500	28.807	23.745	54.956	0.00	0.00
ATOM	7618	C	THR	X	500	30.632	26.895	55.944	0.00	0.00
ATOM	7619	O	THR	X	500	31.743	26.316	55.819	0.00	0.00
ATOM	7620	N	ALA	X	501	30.351	27.596	57.044	0.00	0.00
ATOM	7621	H	ALA	X	501	29.390	27.856	57.217	0.00	0.00
ATOM	7622	CA	ALA	X	501	31.327	28.184	57.947	0.00	0.00
ATOM	7623	HA	ALA	X	501	32.036	28.669	57.277	0.00	0.00
ATOM	7624	CB	ALA	X	501	30.520	29.133	58.771	0.00	0.00
ATOM	7625	HB1	ALA	X	501	31.164	29.769	59.379	0.00	0.00
ATOM	7626	HB2	ALA	X	501	29.725	28.715	59.388	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.959	29.869	58.195	0.00	0.00
ATOM	7628	C	ALA	X	501	32.139	27.189	58.818	0.00	0.00
ATOM	7629	O	ALA	X	501	33.206	27.543	59.314	0.00	0.00
ATOM	7630	N	GLY	X	502	31.697	26.011	59.020	0.00	0.00
ATOM	7631	H	GLY	X	502	30.917	25.723	58.447	0.00	0.00
ATOM	7632	CA	GLY	X	502	32.518	24.859	59.505	0.00	0.00
ATOM	7633	HA2	GLY	X	502	33.205	25.182	60.287	0.00	0.00
ATOM	7634	HA3	GLY	X	502	31.841	24.133	59.956	0.00	0.00
ATOM	7635	C	GLY	X	502	33.296	24.058	58.393	0.00	0.00
ATOM	7636	O	GLY	X	502	34.528	23.994	58.323	0.00	0.00
ATOM	7637	N	ALA	X	503	32.555	23.423	57.463	0.00	0.00
ATOM	7638	H	ALA	X	503	31.555	23.546	57.527	0.00	0.00
ATOM	7639	CA	ALA	X	503	33.197	22.493	56.546	0.00	0.00
ATOM	7640	HA	ALA	X	503	33.909	21.848	57.061	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.167	21.639	55.768	0.00	0.00
ATOM	7642	HB1	ALA	X	503	31.692	21.047	56.551	0.00	0.00
ATOM	7643	HB2	ALA	X	503	32.672	20.883	55.165	0.00	0.00
ATOM	7644	HB3	ALA	X	503	31.407	22.204	55.229	0.00	0.00
ATOM	7645	C	ALA	X	503	34.149	23.242	55.544	0.00	0.00
ATOM	7646	O	ALA	X	503	35.225	22.632	55.211	0.00	0.00
ATOM	7647	N	GLN	X	504	33.886	24.467	55.092	0.00	0.00
ATOM	7648	H	GLN	X	504	33.007	24.866	55.390	0.00	0.00
ATOM	7649	CA	GLN	X	504	34.715	25.301	54.314	0.00	0.00
ATOM	7650	HA	GLN	X	504	34.164	26.146	53.900	0.00	0.00
ATOM	7651	CB	GLN	X	504	35.661	26.039	55.292	0.00	0.00
ATOM	7652	HB2	GLN	X	504	36.366	25.402	55.826	0.00	0.00
ATOM	7653	HB3	GLN	X	504	36.325	26.667	54.698	0.00	0.00
ATOM	7654	CG	GLN	X	504	34.900	26.890	56.407	0.00	0.00
ATOM	7655	HG2	GLN	X	504	34.093	27.552	56.091	0.00	0.00
ATOM	7656	HG3	GLN	X	504	34.416	26.261	57.154	0.00	0.00
ATOM	7657	CD	GLN	X	504	35.860	27.958	57.056	0.00	0.00
ATOM	7658	OE1	GLN	X	504	35.854	29.172	56.751	0.00	0.00
ATOM	7659	NE2	GLN	X	504	36.803	27.556	57.859	0.00	0.00
ATOM	7660	HE21	GLN	X	504	37.540	28.201	58.108	0.00	0.00
ATOM	7661	HE22	GLN	X	504	36.850	26.562	58.034	0.00	0.00
ATOM	7662	C	GLN	X	504	35.222	24.578	53.064	0.00	0.00
ATOM	7663	O	GLN	X	504	36.416	24.332	52.909	0.00	0.00
ATOM	7664	N	GLN	X	505	34.277	24.156	52.208	0.00	0.00
ATOM	7665	H	GLN	X	505	33.351	24.531	52.357	0.00	0.00
ATOM	7666	CA	GLN	X	505	34.525	23.298	51.086	0.00	0.00
ATOM	7667	HA	GLN	X	505	35.457	22.754	51.237	0.00	0.00
ATOM	7668	CB	GLN	X	505	33.355	22.261	50.848	0.00	0.00
ATOM	7669	HB2	GLN	X	505	32.464	22.885	50.778	0.00	0.00

ATOM	7670	HB3	GLN	X	505	33.578	21.732	49.922	0.00	0.00
ATOM	7671	CG	GLN	X	505	33.259	21.248	51.989	0.00	0.00
ATOM	7672	HG2	GLN	X	505	34.243	20.862	52.257	0.00	0.00
ATOM	7673	HG3	GLN	X	505	32.819	21.622	52.914	0.00	0.00
ATOM	7674	CD	GLN	X	505	32.430	19.964	51.715	0.00	0.00
ATOM	7675	OE1	GLN	X	505	32.856	18.776	51.927	0.00	0.00
ATOM	7676	NE2	GLN	X	505	31.103	20.110	51.392	0.00	0.00
ATOM	7677	HE21	GLN	X	505	30.592	19.294	51.086	0.00	0.00
ATOM	7678	HE22	GLN	X	505	30.693	21.032	51.346	0.00	0.00
ATOM	7679	C	GLN	X	505	34.806	24.148	49.792	0.00	0.00
ATOM	7680	O	GLN	X	505	34.037	25.083	49.429	0.00	0.00
ATOM	7681	N	TYR	X	506	35.743	23.711	49.000	0.00	0.00
ATOM	7682	H	TYR	X	506	36.318	22.932	49.287	0.00	0.00
ATOM	7683	CA	TYR	X	506	36.183	24.304	47.745	0.00	0.00
ATOM	7684	HA	TYR	X	506	35.480	25.095	47.483	0.00	0.00
ATOM	7685	CB	TYR	X	506	37.548	25.014	48.025	0.00	0.00
ATOM	7686	HB2	TYR	X	506	37.910	25.537	47.140	0.00	0.00
ATOM	7687	HB3	TYR	X	506	37.489	25.754	48.823	0.00	0.00
ATOM	7688	CG	TYR	X	506	38.690	24.078	48.340	0.00	0.00
ATOM	7689	CD1	TYR	X	506	38.978	23.657	49.682	0.00	0.00
ATOM	7690	HD1	TYR	X	506	38.427	23.876	50.585	0.00	0.00
ATOM	7691	CE1	TYR	X	506	40.052	22.864	49.970	0.00	0.00
ATOM	7692	HE1	TYR	X	506	40.258	22.516	50.972	0.00	0.00
ATOM	7693	CZ	TYR	X	506	40.900	22.492	48.896	0.00	0.00
ATOM	7694	OH	TYR	X	506	41.948	21.636	49.040	0.00	0.00
ATOM	7695	HH	TYR	X	506	42.081	21.372	49.954	0.00	0.00
ATOM	7696	CE2	TYR	X	506	40.680	22.974	47.553	0.00	0.00
ATOM	7697	HE2	TYR	X	506	41.348	22.592	46.795	0.00	0.00
ATOM	7698	CD2	TYR	X	506	39.550	23.730	47.301	0.00	0.00
ATOM	7699	HD2	TYR	X	506	39.242	23.986	46.297	0.00	0.00
ATOM	7700	C	TYR	X	506	36.317	23.259	46.573	0.00	0.00
ATOM	7701	O	TYR	X	506	36.930	22.194	46.688	0.00	0.00
ATOM	7702	N	VAL	X	507	35.702	23.541	45.420	0.00	0.00
ATOM	7703	H	VAL	X	507	35.160	24.390	45.340	0.00	0.00
ATOM	7704	CA	VAL	X	507	36.064	22.730	44.286	0.00	0.00
ATOM	7705	HA	VAL	X	507	35.972	21.656	44.448	0.00	0.00
ATOM	7706	CB	VAL	X	507	35.149	23.077	43.084	0.00	0.00
ATOM	7707	HB	VAL	X	507	35.625	22.504	42.289	0.00	0.00
ATOM	7708	CG1	VAL	X	507	33.700	22.502	43.287	0.00	0.00
ATOM	7709	HG11	VAL	X	507	33.031	22.884	42.517	0.00	0.00
ATOM	7710	HG12	VAL	X	507	33.707	21.412	43.285	0.00	0.00
ATOM	7711	HG13	VAL	X	507	33.331	22.917	44.225	0.00	0.00
ATOM	7712	CG2	VAL	X	507	35.041	24.517	42.552	0.00	0.00
ATOM	7713	HG21	VAL	X	507	36.007	24.809	42.140	0.00	0.00
ATOM	7714	HG22	VAL	X	507	34.783	25.242	43.324	0.00	0.00
ATOM	7715	HG23	VAL	X	507	34.334	24.625	41.730	0.00	0.00
ATOM	7716	C	VAL	X	507	37.502	22.897	43.778	0.00	0.00
ATOM	7717	O	VAL	X	507	38.081	23.977	43.908	0.00	0.00
ATOM	7718	N	SER	X	508	38.051	21.794	43.382	0.00	0.00
ATOM	7719	H	SER	X	508	37.498	20.950	43.438	0.00	0.00
ATOM	7720	CA	SER	X	508	39.393	21.736	42.828	0.00	0.00
ATOM	7721	HA	SER	X	508	39.953	22.583	43.223	0.00	0.00
ATOM	7722	CB	SER	X	508	40.182	20.579	43.417	0.00	0.00
ATOM	7723	HB2	SER	X	508	39.892	19.586	43.075	0.00	0.00
ATOM	7724	HB3	SER	X	508	41.244	20.609	43.170	0.00	0.00
ATOM	7725	OG	SER	X	508	40.124	20.765	44.785	0.00	0.00
ATOM	7726	HG	SER	X	508	39.186	20.670	44.967	0.00	0.00
ATOM	7727	C	SER	X	508	39.253	21.670	41.305	0.00	0.00
ATOM	7728	O	SER	X	508	38.790	20.628	40.804	0.00	0.00
ATOM	7729	N	LEU	X	509	39.609	22.710	40.536	0.00	0.00
ATOM	7730	H	LEU	X	509	39.876	23.587	40.960	0.00	0.00
ATOM	7731	CA	LEU	X	509	39.177	22.819	39.119	0.00	0.00
ATOM	7732	HA	LEU	X	509	38.377	22.088	39.001	0.00	0.00
ATOM	7733	CB	LEU	X	509	38.753	24.232	38.874	0.00	0.00
ATOM	7734	HB2	LEU	X	509	39.447	24.909	39.373	0.00	0.00
ATOM	7735	HB3	LEU	X	509	38.600	24.388	37.806	0.00	0.00
ATOM	7736	CG	LEU	X	509	37.428	24.608	39.524	0.00	0.00

ATOM	7737	HG	LEU	X	509	37.552	24.445	40.595	0.00	0.00
ATOM	7738	CD1	LEU	X	509	36.990	25.944	39.135	0.00	0.00
ATOM	7739	HD11	LEU	X	509	36.909	26.005	38.050	0.00	0.00
ATOM	7740	HD12	LEU	X	509	37.634	26.662	39.642	0.00	0.00
ATOM	7741	HD13	LEU	X	509	36.010	26.137	39.571	0.00	0.00
ATOM	7742	CD2	LEU	X	509	36.226	23.673	39.241	0.00	0.00
ATOM	7743	HD21	LEU	X	509	36.417	22.603	39.313	0.00	0.00
ATOM	7744	HD22	LEU	X	509	35.412	23.965	39.906	0.00	0.00
ATOM	7745	HD23	LEU	X	509	35.829	23.890	38.249	0.00	0.00
ATOM	7746	C	LEU	X	509	40.379	22.449	38.235	0.00	0.00
ATOM	7747	O	LEU	X	509	41.485	22.885	38.478	0.00	0.00
ATOM	7748	N	ASP	X	510	40.153	21.495	37.353	0.00	0.00
ATOM	7749	H	ASP	X	510	39.218	21.113	37.357	0.00	0.00
ATOM	7750	CA	ASP	X	510	41.115	20.707	36.560	0.00	0.00
ATOM	7751	HA	ASP	X	510	41.882	21.381	36.179	0.00	0.00
ATOM	7752	CB	ASP	X	510	41.776	19.697	37.498	0.00	0.00
ATOM	7753	HB2	ASP	X	510	41.893	20.036	38.528	0.00	0.00
ATOM	7754	HB3	ASP	X	510	41.010	18.935	37.644	0.00	0.00
ATOM	7755	CG	ASP	X	510	43.136	19.216	36.960	0.00	0.00
ATOM	7756	OD1	ASP	X	510	43.459	19.266	35.761	0.00	0.00
ATOM	7757	OD2	ASP	X	510	43.782	18.608	37.817	0.00	0.00
ATOM	7758	C	ASP	X	510	40.378	19.992	35.411	0.00	0.00
ATOM	7759	O	ASP	X	510	39.172	19.909	35.446	0.00	0.00
ATOM	7760	N	LEU	X	511	41.165	19.317	34.526	0.00	0.00
ATOM	7761	H	LEU	X	511	42.164	19.266	34.668	0.00	0.00
ATOM	7762	CA	LEU	X	511	40.595	18.598	33.429	0.00	0.00
ATOM	7763	HA	LEU	X	511	39.837	19.204	32.933	0.00	0.00
ATOM	7764	CB	LEU	X	511	41.662	18.219	32.404	0.00	0.00
ATOM	7765	HB2	LEU	X	511	42.379	17.535	32.858	0.00	0.00
ATOM	7766	HB3	LEU	X	511	41.247	17.811	31.483	0.00	0.00
ATOM	7767	CG	LEU	X	511	42.655	19.380	32.055	0.00	0.00
ATOM	7768	HG	LEU	X	511	43.121	19.834	32.929	0.00	0.00
ATOM	7769	CD1	LEU	X	511	43.760	18.797	31.149	0.00	0.00
ATOM	7770	HD11	LEU	X	511	43.307	18.397	30.241	0.00	0.00
ATOM	7771	HD12	LEU	X	511	44.220	17.959	31.673	0.00	0.00
ATOM	7772	HD13	LEU	X	511	44.520	19.540	30.908	0.00	0.00
ATOM	7773	CD2	LEU	X	511	41.909	20.472	31.348	0.00	0.00
ATOM	7774	HD21	LEU	X	511	42.445	21.417	31.256	0.00	0.00
ATOM	7775	HD22	LEU	X	511	41.483	20.131	30.405	0.00	0.00
ATOM	7776	HD23	LEU	X	511	41.080	20.738	32.004	0.00	0.00
ATOM	7777	C	LEU	X	511	39.954	17.327	33.945	0.00	0.00
ATOM	7778	O	LEU	X	511	38.984	16.751	33.393	0.00	0.00
ATOM	7779	N	ARG	X	512	40.454	16.849	35.095	0.00	0.00
ATOM	7780	H	ARG	X	512	41.230	17.413	35.412	0.00	0.00
ATOM	7781	CA	ARG	X	512	39.807	15.746	35.878	0.00	0.00
ATOM	7782	HA	ARG	X	512	39.951	14.819	35.324	0.00	0.00
ATOM	7783	CB	ARG	X	512	40.569	15.621	37.237	0.00	0.00
ATOM	7784	HB2	ARG	X	512	40.264	16.433	37.898	0.00	0.00
ATOM	7785	HB3	ARG	X	512	40.262	14.704	37.740	0.00	0.00
ATOM	7786	CG	ARG	X	512	42.092	15.510	37.211	0.00	0.00
ATOM	7787	HG2	ARG	X	512	42.366	14.560	36.753	0.00	0.00
ATOM	7788	HG3	ARG	X	512	42.460	16.364	36.642	0.00	0.00
ATOM	7789	CD	ARG	X	512	42.866	15.481	38.519	0.00	0.00
ATOM	7790	HD2	ARG	X	512	43.918	15.487	38.232	0.00	0.00
ATOM	7791	HD3	ARG	X	512	42.704	16.422	39.045	0.00	0.00
ATOM	7792	NE	ARG	X	512	42.650	14.282	39.298	0.00	0.00
ATOM	7793	HE	ARG	X	512	43.303	13.531	39.125	0.00	0.00
ATOM	7794	CZ	ARG	X	512	41.593	14.093	40.062	0.00	0.00
ATOM	7795	NH1	ARG	X	512	40.646	15.030	40.357	0.00	0.00
ATOM	7796	HH11	ARG	X	512	40.861	15.991	40.133	0.00	0.00
ATOM	7797	HH12	ARG	X	512	39.782	14.780	40.817	0.00	0.00
ATOM	7798	NH2	ARG	X	512	41.501	12.925	40.659	0.00	0.00
ATOM	7799	HH21	ARG	X	512	42.239	12.238	40.595	0.00	0.00
ATOM	7800	HH22	ARG	X	512	40.594	12.646	41.005	0.00	0.00
ATOM	7801	C	ARG	X	512	38.333	16.057	36.181	0.00	0.00
ATOM	7802	O	ARG	X	512	37.886	17.195	36.097	0.00	0.00
ATOM	7803	N	PRO	X	513	37.500	15.063	36.595	0.00	0.00

ATOM	7804	CD	PRO	X	513	37.805	13.609	36.523	0.00	0.00
ATOM	7805	HD2	PRO	X	513	38.413	13.212	37.335	0.00	0.00
ATOM	7806	HD3	PRO	X	513	38.209	13.427	35.527	0.00	0.00
ATOM	7807	CG	PRO	X	513	36.389	13.004	36.577	0.00	0.00
ATOM	7808	HG2	PRO	X	513	36.518	11.981	36.932	0.00	0.00
ATOM	7809	HG3	PRO	X	513	35.938	13.060	35.587	0.00	0.00
ATOM	7810	CB	PRO	X	513	35.638	13.965	37.535	0.00	0.00
ATOM	7811	HB2	PRO	X	513	35.936	13.606	38.520	0.00	0.00
ATOM	7812	HB3	PRO	X	513	34.575	14.030	37.300	0.00	0.00
ATOM	7813	CA	PRO	X	513	36.261	15.382	37.203	0.00	0.00
ATOM	7814	HA	PRO	X	513	35.696	15.942	36.458	0.00	0.00
ATOM	7815	C	PRO	X	513	36.432	16.261	38.394	0.00	0.00
ATOM	7816	O	PRO	X	513	37.503	16.430	39.014	0.00	0.00
ATOM	7817	N	LEU	X	514	35.325	16.940	38.713	0.00	0.00
ATOM	7818	H	LEU	X	514	34.496	16.789	38.156	0.00	0.00
ATOM	7819	CA	LEU	X	514	35.152	17.927	39.738	0.00	0.00
ATOM	7820	HA	LEU	X	514	35.880	18.724	39.586	0.00	0.00
ATOM	7821	CB	LEU	X	514	33.742	18.480	39.685	0.00	0.00
ATOM	7822	HB2	LEU	X	514	33.331	18.780	38.721	0.00	0.00
ATOM	7823	HB3	LEU	X	514	32.958	17.839	40.087	0.00	0.00
ATOM	7824	CG	LEU	X	514	33.754	19.840	40.556	0.00	0.00
ATOM	7825	HG	LEU	X	514	34.274	19.588	41.481	0.00	0.00
ATOM	7826	CD1	LEU	X	514	34.627	20.837	39.846	0.00	0.00
ATOM	7827	HD11	LEU	X	514	34.261	21.830	40.111	0.00	0.00
ATOM	7828	HD12	LEU	X	514	34.621	20.681	38.767	0.00	0.00
ATOM	7829	HD13	LEU	X	514	35.621	20.884	40.291	0.00	0.00
ATOM	7830	CD2	LEU	X	514	32.327	20.287	40.750	0.00	0.00
ATOM	7831	HD21	LEU	X	514	32.315	21.300	41.151	0.00	0.00
ATOM	7832	HD22	LEU	X	514	31.925	20.262	39.737	0.00	0.00
ATOM	7833	HD23	LEU	X	514	31.796	19.495	41.278	0.00	0.00
ATOM	7834	C	LEU	X	514	35.492	17.265	41.110	0.00	0.00
ATOM	7835	O	LEU	X	514	34.928	16.232	41.438	0.00	0.00
ATOM	7836	N	GLU	X	515	36.473	17.715	41.894	0.00	0.00
ATOM	7837	H	GLU	X	515	36.937	18.576	41.642	0.00	0.00
ATOM	7838	CA	GLU	X	515	36.836	17.039	43.145	0.00	0.00
ATOM	7839	HA	GLU	X	515	36.194	16.199	43.409	0.00	0.00
ATOM	7840	CB	GLU	X	515	38.264	16.603	43.018	0.00	0.00
ATOM	7841	HB2	GLU	X	515	38.250	15.811	42.269	0.00	0.00
ATOM	7842	HB3	GLU	X	515	38.879	17.464	42.755	0.00	0.00
ATOM	7843	CG	GLU	X	515	38.685	15.917	44.341	0.00	0.00
ATOM	7844	HG2	GLU	X	515	38.710	16.600	45.189	0.00	0.00
ATOM	7845	HG3	GLU	X	515	38.026	15.114	44.672	0.00	0.00
ATOM	7846	CD	GLU	X	515	40.079	15.311	44.393	0.00	0.00
ATOM	7847	OE1	GLU	X	515	40.333	14.287	45.017	0.00	0.00
ATOM	7848	OE2	GLU	X	515	41.027	16.023	43.923	0.00	0.00
ATOM	7849	C	GLU	X	515	36.634	18.111	44.186	0.00	0.00
ATOM	7850	O	GLU	X	515	37.263	19.162	44.171	0.00	0.00
ATOM	7851	N	VAL	X	516	35.849	17.751	45.162	0.00	0.00
ATOM	7852	H	VAL	X	516	35.469	16.816	45.138	0.00	0.00
ATOM	7853	CA	VAL	X	516	35.601	18.592	46.320	0.00	0.00
ATOM	7854	HA	VAL	X	516	35.789	19.628	46.036	0.00	0.00
ATOM	7855	CB	VAL	X	516	34.123	18.329	46.746	0.00	0.00
ATOM	7856	HB	VAL	X	516	33.933	17.287	47.003	0.00	0.00
ATOM	7857	CG1	VAL	X	516	33.761	19.062	48.062	0.00	0.00
ATOM	7858	HG11	VAL	X	516	33.897	18.419	48.932	0.00	0.00
ATOM	7859	HG12	VAL	X	516	34.213	20.048	48.168	0.00	0.00
ATOM	7860	HG13	VAL	X	516	32.702	19.316	48.006	0.00	0.00
ATOM	7861	CG2	VAL	X	516	33.122	18.652	45.577	0.00	0.00
ATOM	7862	HG21	VAL	X	516	32.097	18.733	45.940	0.00	0.00
ATOM	7863	HG22	VAL	X	516	33.171	17.832	44.862	0.00	0.00
ATOM	7864	HG23	VAL	X	516	33.271	19.666	45.206	0.00	0.00
ATOM	7865	C	VAL	X	516	36.570	18.275	47.438	0.00	0.00
ATOM	7866	O	VAL	X	516	36.520	17.072	47.787	0.00	0.00
ATOM	7867	N	ARG	X	517	37.297	19.249	47.995	0.00	0.00
ATOM	7868	H	ARG	X	517	37.282	20.101	47.454	0.00	0.00
ATOM	7869	CA	ARG	X	517	38.255	19.162	49.095	0.00	0.00
ATOM	7870	HA	ARG	X	517	38.357	18.128	49.426	0.00	0.00

ATOM	7871	CB	ARG	X	517	39.626	19.599	48.588	0.00	0.00
ATOM	7872	HB2	ARG	X	517	39.471	20.606	48.200	0.00	0.00
ATOM	7873	HB3	ARG	X	517	40.275	19.687	49.459	0.00	0.00
ATOM	7874	CG	ARG	X	517	40.161	18.729	47.455	0.00	0.00
ATOM	7875	HG2	ARG	X	517	40.095	17.660	47.661	0.00	0.00
ATOM	7876	HG3	ARG	X	517	39.492	18.832	46.601	0.00	0.00
ATOM	7877	CD	ARG	X	517	41.551	18.965	46.966	0.00	0.00
ATOM	7878	HD2	ARG	X	517	41.673	20.022	46.733	0.00	0.00
ATOM	7879	HD3	ARG	X	517	42.316	18.638	47.670	0.00	0.00
ATOM	7880	NE	ARG	X	517	41.765	18.249	45.643	0.00	0.00
ATOM	7881	HE	ARG	X	517	41.308	17.371	45.445	0.00	0.00
ATOM	7882	CZ	ARG	X	517	42.583	18.685	44.698	0.00	0.00
ATOM	7883	NH1	ARG	X	517	43.464	19.711	44.791	0.00	0.00
ATOM	7884	HH11	ARG	X	517	43.617	20.101	45.710	0.00	0.00
ATOM	7885	HH12	ARG	X	517	44.054	19.927	44.000	0.00	0.00
ATOM	7886	NH2	ARG	X	517	42.541	18.106	43.515	0.00	0.00
ATOM	7887	HH21	ARG	X	517	41.887	17.372	43.284	0.00	0.00
ATOM	7888	HH22	ARG	X	517	43.125	18.430	42.757	0.00	0.00
ATOM	7889	C	ARG	X	517	37.746	20.052	50.281	0.00	0.00
ATOM	7890	O	ARG	X	517	36.954	20.995	50.001	0.00	0.00
ATOM	7891	N	ARG	X	518	38.068	19.600	51.545	0.00	0.00
ATOM	7892	H	ARG	X	518	38.510	18.692	51.580	0.00	0.00
ATOM	7893	CA	ARG	X	518	37.354	20.087	52.716	0.00	0.00
ATOM	7894	HA	ARG	X	518	36.518	20.674	52.335	0.00	0.00
ATOM	7895	CB	ARG	X	518	36.810	18.893	53.511	0.00	0.00
ATOM	7896	HB2	ARG	X	518	36.341	18.179	52.833	0.00	0.00
ATOM	7897	HB3	ARG	X	518	37.576	18.306	54.017	0.00	0.00
ATOM	7898	CG	ARG	X	518	35.754	19.341	54.501	0.00	0.00
ATOM	7899	HG2	ARG	X	518	35.970	20.203	55.132	0.00	0.00
ATOM	7900	HG3	ARG	X	518	34.882	19.690	53.946	0.00	0.00
ATOM	7901	CD	ARG	X	518	35.322	18.162	55.370	0.00	0.00
ATOM	7902	HD2	ARG	X	518	34.387	18.532	55.789	0.00	0.00
ATOM	7903	HD3	ARG	X	518	35.160	17.274	54.758	0.00	0.00
ATOM	7904	NE	ARG	X	518	36.294	17.971	56.475	0.00	0.00
ATOM	7905	HE	ARG	X	518	36.465	18.759	57.084	0.00	0.00
ATOM	7906	CZ	ARG	X	518	37.084	16.957	56.739	0.00	0.00
ATOM	7907	NH1	ARG	X	518	37.188	15.941	55.982	0.00	0.00
ATOM	7908	HH11	ARG	X	518	36.709	15.923	55.093	0.00	0.00
ATOM	7909	HH12	ARG	X	518	37.626	15.109	56.350	0.00	0.00
ATOM	7910	NH2	ARG	X	518	37.852	17.011	57.808	0.00	0.00
ATOM	7911	HH21	ARG	X	518	37.938	17.860	58.349	0.00	0.00
ATOM	7912	HH22	ARG	X	518	38.371	16.165	57.992	0.00	0.00
ATOM	7913	C	ARG	X	518	38.302	20.964	53.584	0.00	0.00
ATOM	7914	O	ARG	X	518	39.334	20.496	54.071	0.00	0.00
ATOM	7915	N	GLY	X	519	37.868	22.173	53.876	0.00	0.00
ATOM	7916	H	GLY	X	519	36.934	22.404	53.570	0.00	0.00
ATOM	7917	CA	GLY	X	519	38.617	23.230	54.553	0.00	0.00
ATOM	7918	HA2	GLY	X	519	37.894	23.892	55.030	0.00	0.00
ATOM	7919	HA3	GLY	X	519	39.053	22.688	55.392	0.00	0.00
ATOM	7920	C	GLY	X	519	39.679	23.971	53.665	0.00	0.00
ATOM	7921	O	GLY	X	519	40.863	23.535	53.557	0.00	0.00
ATOM	7922	N	LEU	X	520	39.258	25.060	53.047	0.00	0.00
ATOM	7923	H	LEU	X	520	38.259	25.182	52.961	0.00	0.00
ATOM	7924	CA	LEU	X	520	40.130	25.922	52.336	0.00	0.00
ATOM	7925	HA	LEU	X	520	40.667	25.303	51.618	0.00	0.00
ATOM	7926	CB	LEU	X	520	39.308	27.045	51.621	0.00	0.00
ATOM	7927	HB2	LEU	X	520	38.632	26.431	51.026	0.00	0.00
ATOM	7928	HB3	LEU	X	520	38.720	27.479	52.430	0.00	0.00
ATOM	7929	CG	LEU	X	520	40.068	28.146	50.855	0.00	0.00
ATOM	7930	HG	LEU	X	520	40.805	28.604	51.515	0.00	0.00
ATOM	7931	CD1	LEU	X	520	40.933	27.607	49.673	0.00	0.00
ATOM	7932	HD11	LEU	X	520	41.293	28.467	49.108	0.00	0.00
ATOM	7933	HD12	LEU	X	520	40.285	27.030	49.012	0.00	0.00
ATOM	7934	HD13	LEU	X	520	41.750	27.074	50.158	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.015	29.151	50.393	0.00	0.00
ATOM	7936	HD21	LEU	X	520	38.322	28.547	49.808	0.00	0.00
ATOM	7937	HD22	LEU	X	520	38.534	29.631	51.245	0.00	0.00

ATOM	7938	HD23	LEU	X	520	39.472	29.886	49.730	0.00	0.00
ATOM	7939	C	LEU	X	520	41.215	26.530	53.255	0.00	0.00
ATOM	7940	O	LEU	X	520	41.029	27.450	54.107	0.00	0.00
ATOM	7941	N	ARG	X	521	42.477	26.037	53.085	0.00	0.00
ATOM	7942	H	ARG	X	521	42.580	25.334	52.367	0.00	0.00
ATOM	7943	CA	ARG	X	521	43.715	26.578	53.651	0.00	0.00
ATOM	7944	HA	ARG	X	521	44.435	25.802	53.390	0.00	0.00
ATOM	7945	CB	ARG	X	521	44.159	27.873	52.839	0.00	0.00
ATOM	7946	HB2	ARG	X	521	43.842	27.797	51.799	0.00	0.00
ATOM	7947	HB3	ARG	X	521	43.747	28.763	53.315	0.00	0.00
ATOM	7948	CG	ARG	X	521	45.661	28.089	52.715	0.00	0.00
ATOM	7949	HG2	ARG	X	521	45.751	29.021	52.158	0.00	0.00
ATOM	7950	HG3	ARG	X	521	46.113	28.283	53.688	0.00	0.00
ATOM	7951	CD	ARG	X	521	46.328	26.961	51.978	0.00	0.00
ATOM	7952	HD2	ARG	X	521	46.315	26.138	52.693	0.00	0.00
ATOM	7953	HD3	ARG	X	521	45.662	26.651	51.173	0.00	0.00
ATOM	7954	NE	ARG	X	521	47.710	27.306	51.678	0.00	0.00
ATOM	7955	HE	ARG	X	521	47.925	28.263	51.922	0.00	0.00
ATOM	7956	CZ	ARG	X	521	48.773	26.536	51.597	0.00	0.00
ATOM	7957	NH1	ARG	X	521	48.660	25.184	51.574	0.00	0.00
ATOM	7958	HH11	ARG	X	521	47.764	24.773	51.793	0.00	0.00
ATOM	7959	HH12	ARG	X	521	49.401	24.498	51.591	0.00	0.00
ATOM	7960	NH2	ARG	X	521	49.965	27.135	51.654	0.00	0.00
ATOM	7961	HH21	ARG	X	521	50.012	28.115	51.896	0.00	0.00
ATOM	7962	HH22	ARG	X	521	50.820	26.599	51.686	0.00	0.00
ATOM	7963	C	ARG	X	521	43.832	26.746	55.243	0.00	0.00
ATOM	7964	O	ARG	X	521	44.844	27.285	55.686	0.00	0.00
ATOM	7965	N	ALA	X	522	42.794	26.466	55.967	0.00	0.00
ATOM	7966	H	ALA	X	522	41.917	26.199	55.544	0.00	0.00
ATOM	7967	CA	ALA	X	522	42.695	26.705	57.409	0.00	0.00
ATOM	7968	HA	ALA	X	522	42.865	27.749	57.670	0.00	0.00
ATOM	7969	CB	ALA	X	522	41.233	26.371	57.959	0.00	0.00
ATOM	7970	HB1	ALA	X	522	41.284	26.598	59.024	0.00	0.00
ATOM	7971	HB2	ALA	X	522	40.954	25.338	57.750	0.00	0.00
ATOM	7972	HB3	ALA	X	522	40.502	26.967	57.411	0.00	0.00
ATOM	7973	C	ALA	X	522	43.756	26.036	58.339	0.00	0.00
ATOM	7974	O	ALA	X	522	43.822	26.287	59.571	0.00	0.00
ATOM	7975	N	GLN	X	523	44.564	25.136	57.790	0.00	0.00
ATOM	7976	H	GLN	X	523	44.443	24.916	56.812	0.00	0.00
ATOM	7977	CA	GLN	X	523	45.732	24.546	58.495	0.00	0.00
ATOM	7978	HA	GLN	X	523	45.675	24.622	59.581	0.00	0.00
ATOM	7979	CB	GLN	X	523	45.960	23.071	58.085	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.189	22.963	57.024	0.00	0.00
ATOM	7981	HB3	GLN	X	523	46.851	22.721	58.606	0.00	0.00
ATOM	7982	CG	GLN	X	523	44.854	22.110	58.488	0.00	0.00
ATOM	7983	HG2	GLN	X	523	44.684	22.392	59.527	0.00	0.00
ATOM	7984	HG3	GLN	X	523	43.881	22.225	58.009	0.00	0.00
ATOM	7985	CD	GLN	X	523	45.301	20.690	58.467	0.00	0.00
ATOM	7986	OE1	GLN	X	523	45.969	20.244	57.583	0.00	0.00
ATOM	7987	NE2	GLN	X	523	45.047	19.928	59.506	0.00	0.00
ATOM	7988	HE21	GLN	X	523	45.183	18.929	59.439	0.00	0.00
ATOM	7989	HE22	GLN	X	523	44.451	20.245	60.257	0.00	0.00
ATOM	7990	C	GLN	X	523	47.026	25.354	58.174	0.00	0.00
ATOM	7991	O	GLN	X	523	47.833	25.548	59.090	0.00	0.00
ATOM	7992	N	ALA	X	524	47.176	25.836	56.926	0.00	0.00
ATOM	7993	H	ALA	X	524	46.523	25.577	56.201	0.00	0.00
ATOM	7994	CA	ALA	X	524	48.308	26.741	56.524	0.00	0.00
ATOM	7995	HA	ALA	X	524	49.287	26.456	56.909	0.00	0.00
ATOM	7996	CB	ALA	X	524	48.492	26.834	55.045	0.00	0.00
ATOM	7997	HB1	ALA	X	524	48.994	25.956	54.638	0.00	0.00
ATOM	7998	HB2	ALA	X	524	49.044	27.702	54.684	0.00	0.00
ATOM	7999	HB3	ALA	X	524	47.467	26.863	54.675	0.00	0.00
ATOM	8000	C	ALA	X	524	48.058	28.079	57.172	0.00	0.00
ATOM	8001	O	ALA	X	524	49.032	28.649	57.634	0.00	0.00
ATOM	8002	N	CYX	X	525	46.810	28.559	57.154	0.00	0.00
ATOM	8003	H	CYX	X	525	46.017	28.104	56.725	0.00	0.00
ATOM	8004	CA	CYX	X	525	46.428	29.924	57.710	0.00	0.00

ATOM	8005	HA	CYX	X	525	47.196	30.619	57.372	0.00	0.00
ATOM	8006	CB	CYX	X	525	45.049	30.452	57.240	0.00	0.00
ATOM	8007	HB2	CYX	X	525	44.249	29.884	57.716	0.00	0.00
ATOM	8008	HB3	CYX	X	525	44.945	31.509	57.486	0.00	0.00
ATOM	8009	SG	CYX	X	525	44.988	30.253	55.496	0.00	0.00
ATOM	8010	C	CYX	X	525	46.477	29.940	59.210	0.00	0.00
ATOM	8011	O	CYX	X	525	46.566	31.059	59.758	0.00	0.00
ATOM	8012	N	ALA	X	526	46.465	28.742	59.838	0.00	0.00
ATOM	8013	H	ALA	X	526	46.380	27.938	59.233	0.00	0.00
ATOM	8014	CA	ALA	X	526	46.697	28.621	61.256	0.00	0.00
ATOM	8015	HA	ALA	X	526	45.802	28.954	61.781	0.00	0.00
ATOM	8016	CB	ALA	X	526	46.846	27.115	61.535	0.00	0.00
ATOM	8017	HB1	ALA	X	526	46.146	26.502	60.967	0.00	0.00
ATOM	8018	HB2	ALA	X	526	46.589	27.029	62.591	0.00	0.00
ATOM	8019	HB3	ALA	X	526	47.873	26.790	61.369	0.00	0.00
ATOM	8020	C	ALA	X	526	47.947	29.394	61.637	0.00	0.00
ATOM	8021	O	ALA	X	526	47.850	30.031	62.701	0.00	0.00
ATOM	8022	N	PHE	X	527	49.020	29.326	60.927	0.00	0.00
ATOM	8023	H	PHE	X	527	48.965	28.788	60.073	0.00	0.00
ATOM	8024	CA	PHE	X	527	50.234	30.152	61.322	0.00	0.00
ATOM	8025	HA	PHE	X	527	50.353	29.986	62.392	0.00	0.00
ATOM	8026	CB	PHE	X	527	51.436	29.479	60.520	0.00	0.00
ATOM	8027	HB2	PHE	X	527	51.436	28.441	60.853	0.00	0.00
ATOM	8028	HB3	PHE	X	527	51.215	29.371	59.458	0.00	0.00
ATOM	8029	CG	PHE	X	527	52.739	30.090	60.758	0.00	0.00
ATOM	8030	CD1	PHE	X	527	53.484	29.675	61.880	0.00	0.00
ATOM	8031	HD1	PHE	X	527	53.132	28.817	62.433	0.00	0.00
ATOM	8032	CE1	PHE	X	527	54.723	30.226	62.186	0.00	0.00
ATOM	8033	HE1	PHE	X	527	55.239	29.892	63.074	0.00	0.00
ATOM	8034	CZ	PHE	X	527	55.266	31.175	61.325	0.00	0.00
ATOM	8035	HZ	PHE	X	527	56.167	31.692	61.622	0.00	0.00
ATOM	8036	CE2	PHE	X	527	54.529	31.613	60.204	0.00	0.00
ATOM	8037	HE2	PHE	X	527	54.914	32.415	59.592	0.00	0.00
ATOM	8038	CD2	PHE	X	527	53.239	31.059	59.916	0.00	0.00
ATOM	8039	HD2	PHE	X	527	52.670	31.497	59.110	0.00	0.00
ATOM	8040	C	PHE	X	527	50.080	31.654	61.119	0.00	0.00
ATOM	8041	O	PHE	X	527	50.270	32.460	62.058	0.00	0.00
ATOM	8042	N	TRP	X	528	49.761	32.114	59.904	0.00	0.00
ATOM	8043	H	TRP	X	528	49.994	31.432	59.196	0.00	0.00
ATOM	8044	CA	TRP	X	528	49.679	33.487	59.450	0.00	0.00
ATOM	8045	HA	TRP	X	528	50.639	33.965	59.647	0.00	0.00
ATOM	8046	CB	TRP	X	528	49.291	33.506	57.991	0.00	0.00
ATOM	8047	HB2	TRP	X	528	48.311	33.054	57.835	0.00	0.00
ATOM	8048	HB3	TRP	X	528	49.095	34.545	57.728	0.00	0.00
ATOM	8049	CG	TRP	X	528	50.382	33.006	56.994	0.00	0.00
ATOM	8050	CD1	TRP	X	528	50.198	31.928	56.166	0.00	0.00
ATOM	8051	HD1	TRP	X	528	49.316	31.308	56.099	0.00	0.00
ATOM	8052	NE1	TRP	X	528	51.259	31.824	55.355	0.00	0.00
ATOM	8053	HE1	TRP	X	528	51.139	31.195	54.574	0.00	0.00
ATOM	8054	CE2	TRP	X	528	52.323	32.653	55.750	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	53.602	32.797	55.298	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	53.920	32.265	54.414	0.00	0.00
ATOM	8057	CH2	TRP	X	528	54.483	33.643	55.961	0.00	0.00
ATOM	8058	HH2	TRP	X	528	55.481	33.776	55.571	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	54.046	34.253	57.157	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	54.725	34.829	57.767	0.00	0.00
ATOM	8061	CE3	TRP	X	528	52.662	34.146	57.638	0.00	0.00
ATOM	8062	HE3	TRP	X	528	52.280	34.548	58.565	0.00	0.00
ATOM	8063	CD2	TRP	X	528	51.809	33.359	56.845	0.00	0.00
ATOM	8064	C	TRP	X	528	48.734	34.336	60.279	0.00	0.00
ATOM	8065	O	TRP	X	528	48.982	35.534	60.517	0.00	0.00
ATOM	8066	N	ASN	X	529	47.634	33.761	60.743	0.00	0.00
ATOM	8067	H	ASN	X	529	47.506	32.791	60.492	0.00	0.00
ATOM	8068	CA	ASN	X	529	46.512	34.405	61.461	0.00	0.00
ATOM	8069	HA	ASN	X	529	46.324	35.418	61.108	0.00	0.00
ATOM	8070	CB	ASN	X	529	45.230	33.561	61.266	0.00	0.00
ATOM	8071	HB2	ASN	X	529	45.302	32.538	61.634	0.00	0.00

ATOM	8072	HB3	ASN	X	529	44.445	34.049	61.844	0.00	0.00
ATOM	8073	CG	ASN	X	529	44.677	33.581	59.843	0.00	0.00
ATOM	8074	OD1	ASN	X	529	45.282	34.169	58.929	0.00	0.00
ATOM	8075	ND2	ASN	X	529	43.472	33.110	59.554	0.00	0.00
ATOM	8076	HD21	ASN	X	529	43.208	33.179	58.582	0.00	0.00
ATOM	8077	HD22	ASN	X	529	42.844	32.736	60.252	0.00	0.00
ATOM	8078	C	ASN	X	529	46.729	34.587	62.966	0.00	0.00
ATOM	8079	O	ASN	X	529	46.026	35.319	63.665	0.00	0.00
ATOM	8080	N	ARG	X	530	47.742	33.897	63.550	0.00	0.00
ATOM	8081	H	ARG	X	530	48.335	33.307	62.983	0.00	0.00
ATOM	8082	CA	ARG	X	530	48.003	33.687	64.992	0.00	0.00
ATOM	8083	HA	ARG	X	530	47.422	34.394	65.584	0.00	0.00
ATOM	8084	CB	ARG	X	530	47.498	32.269	65.452	0.00	0.00
ATOM	8085	HB2	ARG	X	530	48.149	31.465	65.109	0.00	0.00
ATOM	8086	HB3	ARG	X	530	47.566	32.222	66.538	0.00	0.00
ATOM	8087	CG	ARG	X	530	46.016	31.869	65.159	0.00	0.00
ATOM	8088	HG2	ARG	X	530	45.407	32.659	65.598	0.00	0.00
ATOM	8089	HG3	ARG	X	530	45.791	31.839	64.093	0.00	0.00
ATOM	8090	CD	ARG	X	530	45.539	30.548	65.833	0.00	0.00
ATOM	8091	HD2	ARG	X	530	45.578	30.673	66.915	0.00	0.00
ATOM	8092	HD3	ARG	X	530	44.493	30.463	65.537	0.00	0.00
ATOM	8093	NE	ARG	X	530	46.394	29.428	65.430	0.00	0.00
ATOM	8094	HE	ARG	X	530	47.162	29.598	64.796	0.00	0.00
ATOM	8095	CZ	ARG	X	530	46.289	28.154	65.764	0.00	0.00
ATOM	8096	NH1	ARG	X	530	45.377	27.647	66.552	0.00	0.00
ATOM	8097	HH11	ARG	X	530	44.630	28.252	66.862	0.00	0.00
ATOM	8098	HH12	ARG	X	530	45.104	26.686	66.401	0.00	0.00
ATOM	8099	NH2	ARG	X	530	47.197	27.259	65.372	0.00	0.00
ATOM	8100	HH21	ARG	X	530	48.054	27.400	64.857	0.00	0.00
ATOM	8101	HH22	ARG	X	530	46.905	26.304	65.525	0.00	0.00
ATOM	8102	C	ARG	X	530	49.476	33.862	65.418	0.00	0.00
ATOM	8103	O	ARG	X	530	49.688	34.631	66.354	0.00	0.00
ATOM	8104	N	PHE	X	531	50.470	33.168	64.843	0.00	0.00
ATOM	8105	H	PHE	X	531	50.298	32.551	64.062	0.00	0.00
ATOM	8106	CA	PHE	X	531	51.838	33.205	65.350	0.00	0.00
ATOM	8107	HA	PHE	X	531	51.834	33.314	66.435	0.00	0.00
ATOM	8108	CB	PHE	X	531	52.505	31.864	64.947	0.00	0.00
ATOM	8109	HB2	PHE	X	531	51.677	31.188	65.161	0.00	0.00
ATOM	8110	HB3	PHE	X	531	52.741	31.860	63.882	0.00	0.00
ATOM	8111	CG	PHE	X	531	53.696	31.525	65.657	0.00	0.00
ATOM	8112	CD1	PHE	X	531	54.926	32.005	65.075	0.00	0.00
ATOM	8113	HD1	PHE	X	531	54.879	32.540	64.138	0.00	0.00
ATOM	8114	CE1	PHE	X	531	56.072	31.824	65.837	0.00	0.00
ATOM	8115	HE1	PHE	X	531	57.029	32.162	65.468	0.00	0.00
ATOM	8116	CZ	PHE	X	531	56.053	31.132	67.093	0.00	0.00
ATOM	8117	HZ	PHE	X	531	56.959	31.205	67.677	0.00	0.00
ATOM	8118	CE2	PHE	X	531	54.822	30.773	67.635	0.00	0.00
ATOM	8119	HE2	PHE	X	531	54.723	30.369	68.631	0.00	0.00
ATOM	8120	CD2	PHE	X	531	53.631	30.912	66.930	0.00	0.00
ATOM	8121	HD2	PHE	X	531	52.653	30.650	67.306	0.00	0.00
ATOM	8122	C	PHE	X	531	52.605	34.390	64.810	0.00	0.00
ATOM	8123	O	PHE	X	531	53.452	34.972	65.521	0.00	0.00
ATOM	8124	N	LEU	X	532	52.352	34.874	63.543	0.00	0.00
ATOM	8125	H	LEU	X	532	51.656	34.359	63.023	0.00	0.00
ATOM	8126	CA	LEU	X	532	52.979	36.051	62.889	0.00	0.00
ATOM	8127	HA	LEU	X	532	54.057	35.886	62.886	0.00	0.00
ATOM	8128	CB	LEU	X	532	52.483	36.091	61.488	0.00	0.00
ATOM	8129	HB2	LEU	X	532	52.263	35.085	61.131	0.00	0.00
ATOM	8130	HB3	LEU	X	532	51.628	36.755	61.362	0.00	0.00
ATOM	8131	CG	LEU	X	532	53.505	36.667	60.471	0.00	0.00
ATOM	8132	HG	LEU	X	532	53.054	36.470	59.498	0.00	0.00
ATOM	8133	CD1	LEU	X	532	53.476	38.209	60.588	0.00	0.00
ATOM	8134	HD11	LEU	X	532	54.167	38.515	59.803	0.00	0.00
ATOM	8135	HD12	LEU	X	532	53.824	38.733	61.478	0.00	0.00
ATOM	8136	HD13	LEU	X	532	52.476	38.637	60.531	0.00	0.00
ATOM	8137	CD2	LEU	X	532	54.947	36.254	60.523	0.00	0.00
ATOM	8138	HD21	LEU	X	532	55.051	35.169	60.551	0.00	0.00

ATOM	8139	HD22	LEU	X	532	55.524	36.437	59.616	0.00	0.00
ATOM	8140	HD23	LEU	X	532	55.453	36.656	61.400	0.00	0.00
ATOM	8141	C	LEU	X	532	52.806	37.335	63.762	0.00	0.00
ATOM	8142	O	LEU	X	532	53.782	38.010	64.023	0.00	0.00
ATOM	8143	N	PRO	X	533	51.607	37.817	64.184	0.00	0.00
ATOM	8144	CD	PRO	X	533	50.349	37.090	63.962	0.00	0.00
ATOM	8145	HD2	PRO	X	533	50.333	36.176	64.555	0.00	0.00
ATOM	8146	HD3	PRO	X	533	50.207	36.988	62.886	0.00	0.00
ATOM	8147	CG	PRO	X	533	49.219	38.002	64.365	0.00	0.00
ATOM	8148	HG2	PRO	X	533	48.333	37.443	64.668	0.00	0.00
ATOM	8149	HG3	PRO	X	533	48.883	38.546	63.483	0.00	0.00
ATOM	8150	CB	PRO	X	533	49.881	38.987	65.428	0.00	0.00
ATOM	8151	HB2	PRO	X	533	49.787	38.672	66.467	0.00	0.00
ATOM	8152	HB3	PRO	X	533	49.424	39.976	65.380	0.00	0.00
ATOM	8153	CA	PRO	X	533	51.368	39.051	64.984	0.00	0.00
ATOM	8154	HA	PRO	X	533	51.624	39.951	64.426	0.00	0.00
ATOM	8155	C	PRO	X	533	52.357	39.049	66.213	0.00	0.00
ATOM	8156	O	PRO	X	533	52.977	39.992	66.722	0.00	0.00
ATOM	8157	N	LYS	X	534	52.454	37.830	66.793	0.00	0.00
ATOM	8158	H	LYS	X	534	51.894	37.072	66.429	0.00	0.00
ATOM	8159	CA	LYS	X	534	53.266	37.563	67.985	0.00	0.00
ATOM	8160	HA	LYS	X	534	53.171	38.408	68.667	0.00	0.00
ATOM	8161	CB	LYS	X	534	52.560	36.341	68.682	0.00	0.00
ATOM	8162	HB2	LYS	X	534	52.565	35.443	68.065	0.00	0.00
ATOM	8163	HB3	LYS	X	534	53.125	36.012	69.554	0.00	0.00
ATOM	8164	CG	LYS	X	534	51.145	36.645	69.115	0.00	0.00
ATOM	8165	HG2	LYS	X	534	51.248	37.543	69.724	0.00	0.00
ATOM	8166	HG3	LYS	X	534	50.484	36.649	68.248	0.00	0.00
ATOM	8167	CD	LYS	X	534	50.670	35.523	70.123	0.00	0.00
ATOM	8168	HD2	LYS	X	534	51.205	35.596	71.071	0.00	0.00
ATOM	8169	HD3	LYS	X	534	49.609	35.654	70.336	0.00	0.00
ATOM	8170	CE	LYS	X	534	50.728	34.183	69.511	0.00	0.00
ATOM	8171	HE2	LYS	X	534	50.123	34.125	68.606	0.00	0.00
ATOM	8172	HE3	LYS	X	534	51.766	34.002	69.232	0.00	0.00
ATOM	8173	NZ	LYS	X	534	50.312	33.138	70.470	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	50.865	33.124	71.315	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	49.354	33.299	70.746	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	50.436	32.246	70.013	0.00	0.00
ATOM	8177	C	LYS	X	534	54.816	37.409	67.703	0.00	0.00
ATOM	8178	O	LYS	X	534	55.575	37.185	68.666	0.00	0.00
ATOM	8179	N	LEU	X	535	55.211	37.708	66.474	0.00	0.00
ATOM	8180	H	LEU	X	535	54.479	37.953	65.823	0.00	0.00
ATOM	8181	CA	LEU	X	535	56.561	38.023	66.114	0.00	0.00
ATOM	8182	HA	LEU	X	535	57.245	37.974	66.961	0.00	0.00
ATOM	8183	CB	LEU	X	535	57.033	37.086	65.021	0.00	0.00
ATOM	8184	HB2	LEU	X	535	56.402	37.235	64.145	0.00	0.00
ATOM	8185	HB3	LEU	X	535	58.071	37.331	64.798	0.00	0.00
ATOM	8186	CG	LEU	X	535	57.087	35.549	65.336	0.00	0.00
ATOM	8187	HG	LEU	X	535	56.122	35.267	65.757	0.00	0.00
ATOM	8188	CD1	LEU	X	535	57.348	34.705	64.101	0.00	0.00
ATOM	8189	HD11	LEU	X	535	57.868	33.799	64.414	0.00	0.00
ATOM	8190	HD12	LEU	X	535	58.061	35.231	63.467	0.00	0.00
ATOM	8191	HD13	LEU	X	535	56.451	34.539	63.504	0.00	0.00
ATOM	8192	CD2	LEU	X	535	58.118	35.190	66.431	0.00	0.00
ATOM	8193	HD21	LEU	X	535	57.955	35.718	67.370	0.00	0.00
ATOM	8194	HD22	LEU	X	535	57.787	34.207	66.767	0.00	0.00
ATOM	8195	HD23	LEU	X	535	59.153	35.132	66.093	0.00	0.00
ATOM	8196	C	LEU	X	535	56.703	39.456	65.557	0.00	0.00
ATOM	8197	O	LEU	X	535	57.567	40.232	65.854	0.00	0.00
ATOM	8198	N	LEU	X	536	55.733	39.897	64.810	0.00	0.00
ATOM	8199	H	LEU	X	536	55.136	39.144	64.501	0.00	0.00
ATOM	8200	CA	LEU	X	536	55.762	41.175	64.032	0.00	0.00
ATOM	8201	HA	LEU	X	536	56.755	41.226	63.584	0.00	0.00
ATOM	8202	CB	LEU	X	536	54.569	41.235	63.022	0.00	0.00
ATOM	8203	HB2	LEU	X	536	54.640	40.251	62.559	0.00	0.00
ATOM	8204	HB3	LEU	X	536	53.652	41.378	63.596	0.00	0.00
ATOM	8205	CG	LEU	X	536	54.642	42.360	61.943	0.00	0.00

ATOM	8206	HG	LEU	X	536	55.703	42.540	61.769	0.00	0.00
ATOM	8207	CD1	LEU	X	536	53.896	41.871	60.664	0.00	0.00
ATOM	8208	HD11	LEU	X	536	53.990	42.657	59.914	0.00	0.00
ATOM	8209	HD12	LEU	X	536	52.827	41.707	60.801	0.00	0.00
ATOM	8210	HD13	LEU	X	536	54.346	40.939	60.322	0.00	0.00
ATOM	8211	CD2	LEU	X	536	54.033	43.716	62.309	0.00	0.00
ATOM	8212	HD21	LEU	X	536	53.099	43.544	62.843	0.00	0.00
ATOM	8213	HD22	LEU	X	536	54.718	44.243	62.974	0.00	0.00
ATOM	8214	HD23	LEU	X	536	54.023	44.363	61.431	0.00	0.00
ATOM	8215	C	LEU	X	536	55.729	42.348	65.043	0.00	0.00
ATOM	8216	O	LEU	X	536	56.412	43.354	64.857	0.00	0.00
ATOM	8217	N	SER	X	537	55.108	42.239	66.185	0.00	0.00
ATOM	8218	H	SER	X	537	54.541	41.412	66.308	0.00	0.00
ATOM	8219	CA	SER	X	537	55.032	43.332	67.136	0.00	0.00
ATOM	8220	HA	SER	X	537	54.718	44.255	66.649	0.00	0.00
ATOM	8221	CB	SER	X	537	53.872	43.067	68.093	0.00	0.00
ATOM	8222	HB2	SER	X	537	54.091	42.289	68.825	0.00	0.00
ATOM	8223	HB3	SER	X	537	53.596	43.887	68.756	0.00	0.00
ATOM	8224	OG	SER	X	537	52.713	42.699	67.415	0.00	0.00
ATOM	8225	HG	SER	X	537	52.122	42.242	68.018	0.00	0.00
ATOM	8226	C	SER	X	537	56.329	43.631	67.993	0.00	0.00
ATOM	8227	O	SER	X	537	56.659	44.839	68.166	0.00	0.00
ATOM	8228	N	ALA	X	538	56.928	42.541	68.468	0.00	0.00
ATOM	8229	H	ALA	X	538	56.491	41.655	68.262	0.00	0.00
ATOM	8230	CA	ALA	X	538	58.106	42.566	69.367	0.00	0.00
ATOM	8231	HA	ALA	X	538	58.871	43.246	68.993	0.00	0.00
ATOM	8232	CB	ALA	X	538	57.716	43.194	70.764	0.00	0.00
ATOM	8233	HB1	ALA	X	538	56.974	42.510	71.174	0.00	0.00
ATOM	8234	HB2	ALA	X	538	57.212	44.159	70.706	0.00	0.00
ATOM	8235	HB3	ALA	X	538	58.574	43.283	71.430	0.00	0.00
ATOM	8236	C	ALA	X	538	58.700	41.190	69.661	0.00	0.00
ATOM	8237	O	ALA	X	538	57.948	40.215	69.831	0.00	0.00
ATOM	8238	N	THR	X	539	60.039	41.108	69.700	0.00	0.00
ATOM	8239	H	THR	X	539	60.549	41.977	69.632	0.00	0.00
ATOM	8240	CA	THR	X	539	60.804	39.887	69.983	0.00	0.00
ATOM	8241	HA	THR	X	539	60.169	39.108	70.403	0.00	0.00
ATOM	8242	CB	THR	X	539	61.268	39.258	68.668	0.00	0.00
ATOM	8243	HB	THR	X	539	62.093	38.612	68.968	0.00	0.00
ATOM	8244	CG2	THR	X	539	60.218	38.496	67.862	0.00	0.00
ATOM	8245	HG21	THR	X	539	59.374	39.077	67.490	0.00	0.00
ATOM	8246	HG22	THR	X	539	59.709	37.761	68.485	0.00	0.00
ATOM	8247	HG23	THR	X	539	60.623	37.870	67.067	0.00	0.00
ATOM	8248	OG1	THR	X	539	61.682	40.283	67.814	0.00	0.00
ATOM	8249	HG1	THR	X	539	62.347	40.754	68.321	0.00	0.00
ATOM	8250	C	THR	X	539	62.023	40.100	70.925	0.00	0.00
ATOM	8251	O	THR	X	539	62.765	41.107	70.794	0.00	0.00
ATOM	8252	OXT	THR	X	539	62.230	39.220	71.779	0.00	0.00

END

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1B41 Production MD Frame 1200
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CRYST1	82.094	82.094	82.094	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	27.260	49.539	6.042	0.00	0.00
ATOM	2	H1	ASP	X	1	27.150	48.667	6.540	0.00	0.00
ATOM	3	H2	ASP	X	1	27.874	49.467	5.244	0.00	0.00
ATOM	4	H3	ASP	X	1	26.355	49.816	5.689	0.00	0.00
ATOM	5	CA	ASP	X	1	27.758	50.565	6.988	0.00	0.00
ATOM	6	HA	ASP	X	1	28.779	50.361	7.311	0.00	0.00
ATOM	7	CB	ASP	X	1	27.936	51.936	6.339	0.00	0.00
ATOM	8	HB2	ASP	X	1	28.442	51.895	5.375	0.00	0.00
ATOM	9	HB3	ASP	X	1	26.927	52.298	6.143	0.00	0.00
ATOM	10	CG	ASP	X	1	28.797	52.875	7.215	0.00	0.00
ATOM	11	OD1	ASP	X	1	28.062	53.710	7.777	0.00	0.00

ATOM	12	OD2	ASP	X	1	29.994	52.711	7.346	0.00	0.00
ATOM	13	C	ASP	X	1	26.889	50.657	8.216	0.00	0.00
ATOM	14	O	ASP	X	1	27.490	50.791	9.331	0.00	0.00
ATOM	15	N	ALA	X	2	25.578	50.633	8.063	0.00	0.00
ATOM	16	H	ALA	X	2	25.113	50.688	7.167	0.00	0.00
ATOM	17	CA	ALA	X	2	24.661	50.700	9.230	0.00	0.00
ATOM	18	HA	ALA	X	2	24.624	51.659	9.746	0.00	0.00
ATOM	19	CB	ALA	X	2	23.269	50.643	8.569	0.00	0.00
ATOM	20	HB1	ALA	X	2	23.057	49.685	8.094	0.00	0.00
ATOM	21	HB2	ALA	X	2	23.016	51.366	7.794	0.00	0.00
ATOM	22	HB3	ALA	X	2	22.543	50.660	9.382	0.00	0.00
ATOM	23	C	ALA	X	2	24.818	49.612	10.320	0.00	0.00
ATOM	24	O	ALA	X	2	24.684	49.814	11.547	0.00	0.00
ATOM	25	N	GLU	X	3	25.321	48.466	9.842	0.00	0.00
ATOM	26	H	GLU	X	3	25.262	48.351	8.841	0.00	0.00
ATOM	27	CA	GLU	X	3	25.675	47.222	10.624	0.00	0.00
ATOM	28	HA	GLU	X	3	24.824	46.765	11.129	0.00	0.00
ATOM	29	CB	GLU	X	3	26.269	46.204	9.740	0.00	0.00
ATOM	30	HB2	GLU	X	3	27.138	46.594	9.211	0.00	0.00
ATOM	31	HB3	GLU	X	3	26.744	45.379	10.271	0.00	0.00
ATOM	32	CG	GLU	X	3	25.350	45.518	8.703	0.00	0.00
ATOM	33	HG2	GLU	X	3	25.685	44.481	8.728	0.00	0.00
ATOM	34	HG3	GLU	X	3	24.332	45.525	9.092	0.00	0.00
ATOM	35	CD	GLU	X	3	25.352	46.136	7.345	0.00	0.00
ATOM	36	OE1	GLU	X	3	25.087	47.371	7.237	0.00	0.00
ATOM	37	OE2	GLU	X	3	25.723	45.510	6.369	0.00	0.00
ATOM	38	C	GLU	X	3	26.531	47.540	11.802	0.00	0.00
ATOM	39	O	GLU	X	3	26.313	47.046	12.895	0.00	0.00
ATOM	40	N	LEU	X	4	27.321	48.594	11.618	0.00	0.00
ATOM	41	H	LEU	X	4	27.355	48.968	10.680	0.00	0.00
ATOM	42	CA	LEU	X	4	28.371	49.021	12.563	0.00	0.00
ATOM	43	HA	LEU	X	4	28.515	48.275	13.345	0.00	0.00
ATOM	44	CB	LEU	X	4	29.686	49.154	11.713	0.00	0.00
ATOM	45	HB2	LEU	X	4	29.520	49.749	10.814	0.00	0.00
ATOM	46	HB3	LEU	X	4	30.501	49.539	12.325	0.00	0.00
ATOM	47	CG	LEU	X	4	30.163	47.774	11.205	0.00	0.00
ATOM	48	HG	LEU	X	4	29.408	47.317	10.566	0.00	0.00
ATOM	49	CD1	LEU	X	4	31.441	47.981	10.450	0.00	0.00
ATOM	50	HD11	LEU	X	4	32.276	47.979	11.150	0.00	0.00
ATOM	51	HD12	LEU	X	4	31.437	48.870	9.818	0.00	0.00
ATOM	52	HD13	LEU	X	4	31.491	47.087	9.829	0.00	0.00
ATOM	53	CD2	LEU	X	4	30.472	46.817	12.369	0.00	0.00
ATOM	54	HD21	LEU	X	4	31.202	47.079	13.135	0.00	0.00
ATOM	55	HD22	LEU	X	4	29.529	46.535	12.837	0.00	0.00
ATOM	56	HD23	LEU	X	4	30.875	45.960	11.831	0.00	0.00
ATOM	57	C	LEU	X	4	27.900	50.347	13.315	0.00	0.00
ATOM	58	O	LEU	X	4	28.691	50.965	14.018	0.00	0.00
ATOM	59	N	LEU	X	5	26.608	50.672	13.361	0.00	0.00
ATOM	60	H	LEU	X	5	26.004	50.242	12.675	0.00	0.00
ATOM	61	CA	LEU	X	5	26.063	51.800	14.089	0.00	0.00
ATOM	62	HA	LEU	X	5	26.862	52.355	14.582	0.00	0.00
ATOM	63	CB	LEU	X	5	25.314	52.659	13.019	0.00	0.00
ATOM	64	HB2	LEU	X	5	24.697	52.059	12.350	0.00	0.00
ATOM	65	HB3	LEU	X	5	24.659	53.351	13.548	0.00	0.00
ATOM	66	CG	LEU	X	5	26.127	53.551	11.989	0.00	0.00
ATOM	67	HG	LEU	X	5	26.651	52.916	11.275	0.00	0.00
ATOM	68	CD1	LEU	X	5	25.119	54.558	11.352	0.00	0.00
ATOM	69	HD11	LEU	X	5	24.682	55.170	12.141	0.00	0.00
ATOM	70	HD12	LEU	X	5	24.377	54.017	10.764	0.00	0.00
ATOM	71	HD13	LEU	X	5	25.630	55.161	10.601	0.00	0.00
ATOM	72	CD2	LEU	X	5	27.027	54.377	12.815	0.00	0.00
ATOM	73	HD21	LEU	X	5	26.426	54.948	13.523	0.00	0.00
ATOM	74	HD22	LEU	X	5	27.761	53.776	13.352	0.00	0.00
ATOM	75	HD23	LEU	X	5	27.603	55.116	12.259	0.00	0.00
ATOM	76	C	LEU	X	5	25.075	51.395	15.178	0.00	0.00
ATOM	77	O	LEU	X	5	24.252	50.519	14.937	0.00	0.00
ATOM	78	N	VAL	X	6	25.248	51.998	16.326	0.00	0.00

ATOM	79	H	VAL	X	6	25.993	52.679	16.373	0.00	0.00
ATOM	80	CA	VAL	X	6	24.422	51.751	17.557	0.00	0.00
ATOM	81	HA	VAL	X	6	23.442	51.291	17.434	0.00	0.00
ATOM	82	CB	VAL	X	6	25.263	50.922	18.537	0.00	0.00
ATOM	83	HB	VAL	X	6	26.294	51.266	18.448	0.00	0.00
ATOM	84	CG1	VAL	X	6	24.790	51.225	20.002	0.00	0.00
ATOM	85	HG11	VAL	X	6	23.732	50.975	20.076	0.00	0.00
ATOM	86	HG12	VAL	X	6	25.171	50.546	20.765	0.00	0.00
ATOM	87	HG13	VAL	X	6	24.922	52.255	20.333	0.00	0.00
ATOM	88	CG2	VAL	X	6	25.165	49.413	18.177	0.00	0.00
ATOM	89	HG21	VAL	X	6	25.286	48.867	19.112	0.00	0.00
ATOM	90	HG22	VAL	X	6	25.916	49.052	17.474	0.00	0.00
ATOM	91	HG23	VAL	X	6	24.202	49.224	17.701	0.00	0.00
ATOM	92	C	VAL	X	6	24.107	53.196	17.971	0.00	0.00
ATOM	93	O	VAL	X	6	24.923	54.164	17.881	0.00	0.00
ATOM	94	N	THR	X	7	22.892	53.402	18.618	0.00	0.00
ATOM	95	H	THR	X	7	22.251	52.637	18.772	0.00	0.00
ATOM	96	CA	THR	X	7	22.478	54.684	19.275	0.00	0.00
ATOM	97	HA	THR	X	7	23.247	55.443	19.134	0.00	0.00
ATOM	98	CB	THR	X	7	21.170	55.286	18.586	0.00	0.00
ATOM	99	HB	THR	X	7	20.313	54.625	18.450	0.00	0.00
ATOM	100	CG2	THR	X	7	20.672	56.566	19.314	0.00	0.00
ATOM	101	HG21	THR	X	7	20.025	57.054	18.586	0.00	0.00
ATOM	102	HG22	THR	X	7	21.514	57.251	19.410	0.00	0.00
ATOM	103	HG23	THR	X	7	20.209	56.342	20.275	0.00	0.00
ATOM	104	OG1	THR	X	7	21.514	55.706	17.331	0.00	0.00
ATOM	105	HG1	THR	X	7	20.707	55.867	16.836	0.00	0.00
ATOM	106	C	THR	X	7	22.324	54.454	20.785	0.00	0.00
ATOM	107	O	THR	X	7	21.446	53.695	21.167	0.00	0.00
ATOM	108	N	VAL	X	8	22.983	55.291	21.638	0.00	0.00
ATOM	109	H	VAL	X	8	23.528	56.021	21.203	0.00	0.00
ATOM	110	CA	VAL	X	8	22.817	55.382	23.060	0.00	0.00
ATOM	111	HA	VAL	X	8	22.150	54.586	23.390	0.00	0.00
ATOM	112	CB	VAL	X	8	24.147	55.160	23.792	0.00	0.00
ATOM	113	HB	VAL	X	8	24.018	55.249	24.870	0.00	0.00
ATOM	114	CG1	VAL	X	8	24.607	53.640	23.535	0.00	0.00
ATOM	115	HG11	VAL	X	8	25.459	53.475	24.194	0.00	0.00
ATOM	116	HG12	VAL	X	8	23.752	53.033	23.834	0.00	0.00
ATOM	117	HG13	VAL	X	8	24.795	53.451	22.478	0.00	0.00
ATOM	118	CG2	VAL	X	8	25.361	56.084	23.489	0.00	0.00
ATOM	119	HG21	VAL	X	8	26.341	55.843	23.901	0.00	0.00
ATOM	120	HG22	VAL	X	8	25.125	57.090	23.835	0.00	0.00
ATOM	121	HG23	VAL	X	8	25.512	56.023	22.412	0.00	0.00
ATOM	122	C	VAL	X	8	22.302	56.750	23.493	0.00	0.00
ATOM	123	O	VAL	X	8	22.088	57.609	22.604	0.00	0.00
ATOM	124	N	ARG	X	9	22.118	56.948	24.807	0.00	0.00
ATOM	125	H	ARG	X	9	22.346	56.123	25.343	0.00	0.00
ATOM	126	CA	ARG	X	9	21.442	58.048	25.429	0.00	0.00
ATOM	127	HA	ARG	X	9	20.472	58.005	24.932	0.00	0.00
ATOM	128	CB	ARG	X	9	21.309	57.948	26.911	0.00	0.00
ATOM	129	HB2	ARG	X	9	20.743	57.029	27.065	0.00	0.00
ATOM	130	HB3	ARG	X	9	22.348	57.932	27.240	0.00	0.00
ATOM	131	CG	ARG	X	9	20.426	59.046	27.602	0.00	0.00
ATOM	132	HG2	ARG	X	9	20.688	60.009	27.162	0.00	0.00
ATOM	133	HG3	ARG	X	9	19.400	58.903	27.263	0.00	0.00
ATOM	134	CD	ARG	X	9	20.635	59.083	29.159	0.00	0.00
ATOM	135	HD2	ARG	X	9	20.315	58.155	29.632	0.00	0.00
ATOM	136	HD3	ARG	X	9	21.675	59.132	29.481	0.00	0.00
ATOM	137	NE	ARG	X	9	19.773	60.195	29.714	0.00	0.00
ATOM	138	HE	ARG	X	9	19.212	60.678	29.027	0.00	0.00
ATOM	139	CZ	ARG	X	9	19.621	60.367	31.022	0.00	0.00
ATOM	140	NH1	ARG	X	9	20.268	59.714	31.974	0.00	0.00
ATOM	141	HH11	ARG	X	9	20.897	58.933	31.858	0.00	0.00
ATOM	142	HH12	ARG	X	9	20.080	59.831	32.959	0.00	0.00
ATOM	143	NH2	ARG	X	9	18.690	61.222	31.424	0.00	0.00
ATOM	144	HH21	ARG	X	9	18.244	61.807	30.732	0.00	0.00
ATOM	145	HH22	ARG	X	9	18.756	61.532	32.383	0.00	0.00

ATOM	146	C	ARG	X	9	22.141	59.366	25.089	0.00	0.00
ATOM	147	O	ARG	X	9	21.468	60.376	24.901	0.00	0.00
ATOM	148	N	GLY	X	10	23.467	59.338	24.945	0.00	0.00
ATOM	149	H	GLY	X	10	23.957	58.472	25.121	0.00	0.00
ATOM	150	CA	GLY	X	10	24.341	60.467	24.477	0.00	0.00
ATOM	151	HA2	GLY	X	10	24.290	61.344	25.122	0.00	0.00
ATOM	152	HA3	GLY	X	10	25.329	60.029	24.620	0.00	0.00
ATOM	153	C	GLY	X	10	24.063	60.738	23.030	0.00	0.00
ATOM	154	O	GLY	X	10	24.312	61.846	22.584	0.00	0.00
ATOM	155	N	GLY	X	11	23.870	59.678	22.285	0.00	0.00
ATOM	156	H	GLY	X	11	23.783	58.780	22.740	0.00	0.00
ATOM	157	CA	GLY	X	11	23.932	59.701	20.854	0.00	0.00
ATOM	158	HA2	GLY	X	11	22.921	59.895	20.495	0.00	0.00
ATOM	159	HA3	GLY	X	11	24.432	60.611	20.522	0.00	0.00
ATOM	160	C	GLY	X	11	24.498	58.492	20.156	0.00	0.00
ATOM	161	O	GLY	X	11	24.565	57.422	20.771	0.00	0.00
ATOM	162	N	ARG	X	12	24.642	58.618	18.790	0.00	0.00
ATOM	163	H	ARG	X	12	24.409	59.498	18.352	0.00	0.00
ATOM	164	CA	ARG	X	12	25.246	57.664	17.811	0.00	0.00
ATOM	165	HA	ARG	X	12	24.771	56.683	17.827	0.00	0.00
ATOM	166	CB	ARG	X	12	25.117	58.123	16.312	0.00	0.00
ATOM	167	HB2	ARG	X	12	25.704	59.034	16.193	0.00	0.00
ATOM	168	HB3	ARG	X	12	25.587	57.465	15.581	0.00	0.00
ATOM	169	CG	ARG	X	12	23.612	58.199	15.891	0.00	0.00
ATOM	170	HG2	ARG	X	12	23.288	57.206	15.580	0.00	0.00
ATOM	171	HG3	ARG	X	12	23.027	58.530	16.748	0.00	0.00
ATOM	172	CD	ARG	X	12	23.226	59.162	14.701	0.00	0.00
ATOM	173	HD2	ARG	X	12	23.993	59.119	13.928	0.00	0.00
ATOM	174	HD3	ARG	X	12	22.395	58.834	14.076	0.00	0.00
ATOM	175	NE	ARG	X	12	23.054	60.563	15.150	0.00	0.00
ATOM	176	HE	ARG	X	12	22.680	60.684	16.081	0.00	0.00
ATOM	177	CZ	ARG	X	12	23.174	61.626	14.348	0.00	0.00
ATOM	178	NH1	ARG	X	12	23.292	61.586	13.004	0.00	0.00
ATOM	179	HH11	ARG	X	12	23.437	60.716	12.512	0.00	0.00
ATOM	180	HH12	ARG	X	12	23.361	62.429	12.451	0.00	0.00
ATOM	181	NH2	ARG	X	12	22.995	62.796	14.925	0.00	0.00
ATOM	182	HH21	ARG	X	12	22.769	62.890	15.905	0.00	0.00
ATOM	183	HH22	ARG	X	12	23.276	63.632	14.432	0.00	0.00
ATOM	184	C	ARG	X	12	26.737	57.240	17.997	0.00	0.00
ATOM	185	O	ARG	X	12	27.597	58.067	18.323	0.00	0.00
ATOM	186	N	LEU	X	13	26.975	55.903	17.946	0.00	0.00
ATOM	187	H	LEU	X	13	26.231	55.336	17.563	0.00	0.00
ATOM	188	CA	LEU	X	13	28.311	55.315	17.976	0.00	0.00
ATOM	189	HA	LEU	X	13	29.046	56.119	17.951	0.00	0.00
ATOM	190	CB	LEU	X	13	28.527	54.510	19.305	0.00	0.00
ATOM	191	HB2	LEU	X	13	27.858	53.659	19.183	0.00	0.00
ATOM	192	HB3	LEU	X	13	29.507	54.050	19.436	0.00	0.00
ATOM	193	CG	LEU	X	13	28.153	55.178	20.595	0.00	0.00
ATOM	194	HG	LEU	X	13	27.215	55.673	20.347	0.00	0.00
ATOM	195	CD1	LEU	X	13	28.032	54.105	21.735	0.00	0.00
ATOM	196	HD11	LEU	X	13	27.058	53.618	21.687	0.00	0.00
ATOM	197	HD12	LEU	X	13	28.237	54.621	22.673	0.00	0.00
ATOM	198	HD13	LEU	X	13	28.699	53.271	21.515	0.00	0.00
ATOM	199	CD2	LEU	X	13	29.033	56.345	20.929	0.00	0.00
ATOM	200	HD21	LEU	X	13	30.012	55.947	21.195	0.00	0.00
ATOM	201	HD22	LEU	X	13	29.148	57.018	20.079	0.00	0.00
ATOM	202	HD23	LEU	X	13	28.486	56.837	21.733	0.00	0.00
ATOM	203	C	LEU	X	13	28.597	54.479	16.709	0.00	0.00
ATOM	204	O	LEU	X	13	27.673	53.777	16.337	0.00	0.00
ATOM	205	N	ARG	X	14	29.762	54.706	16.080	0.00	0.00
ATOM	206	H	ARG	X	14	30.396	55.357	16.520	0.00	0.00
ATOM	207	CA	ARG	X	14	30.269	53.797	15.027	0.00	0.00
ATOM	208	HA	ARG	X	14	29.459	53.210	14.595	0.00	0.00
ATOM	209	CB	ARG	X	14	30.912	54.662	13.896	0.00	0.00
ATOM	210	HB2	ARG	X	14	30.131	55.341	13.554	0.00	0.00
ATOM	211	HB3	ARG	X	14	31.828	55.159	14.216	0.00	0.00
ATOM	212	CG	ARG	X	14	31.288	53.840	12.605	0.00	0.00

ATOM	213	HG2	ARG	X	14	31.947	53.013	12.870	0.00	0.00
ATOM	214	HG3	ARG	X	14	30.348	53.357	12.337	0.00	0.00
ATOM	215	CD	ARG	X	14	31.722	54.745	11.415	0.00	0.00
ATOM	216	HD2	ARG	X	14	32.608	55.311	11.703	0.00	0.00
ATOM	217	HD3	ARG	X	14	32.047	54.241	10.505	0.00	0.00
ATOM	218	NE	ARG	X	14	30.676	55.676	10.929	0.00	0.00
ATOM	219	HE	ARG	X	14	29.848	55.336	10.463	0.00	0.00
ATOM	220	CZ	ARG	X	14	30.695	56.993	11.294	0.00	0.00
ATOM	221	NH1	ARG	X	14	31.696	57.631	11.945	0.00	0.00
ATOM	222	HH11	ARG	X	14	32.502	57.193	12.367	0.00	0.00
ATOM	223	HH12	ARG	X	14	31.765	58.639	11.931	0.00	0.00
ATOM	224	NH2	ARG	X	14	29.720	57.804	10.934	0.00	0.00
ATOM	225	HH21	ARG	X	14	28.950	57.412	10.410	0.00	0.00
ATOM	226	HH22	ARG	X	14	29.732	58.803	11.084	0.00	0.00
ATOM	227	C	ARG	X	14	31.336	52.809	15.505	0.00	0.00
ATOM	228	O	ARG	X	14	32.086	53.289	16.332	0.00	0.00
ATOM	229	N	GLY	X	15	31.274	51.513	15.085	0.00	0.00
ATOM	230	H	GLY	X	15	30.623	51.302	14.341	0.00	0.00
ATOM	231	CA	GLY	X	15	32.180	50.451	15.567	0.00	0.00
ATOM	232	HA2	GLY	X	15	32.852	50.950	16.266	0.00	0.00
ATOM	233	HA3	GLY	X	15	31.608	49.613	15.966	0.00	0.00
ATOM	234	C	GLY	X	15	33.121	49.886	14.448	0.00	0.00
ATOM	235	O	GLY	X	15	33.206	50.427	13.376	0.00	0.00
ATOM	236	N	ILE	X	16	33.802	48.724	14.680	0.00	0.00
ATOM	237	H	ILE	X	16	33.728	48.321	15.603	0.00	0.00
ATOM	238	CA	ILE	X	16	34.541	47.911	13.634	0.00	0.00
ATOM	239	HA	ILE	X	16	34.189	48.295	12.677	0.00	0.00
ATOM	240	CB	ILE	X	16	36.144	48.115	13.760	0.00	0.00
ATOM	241	HB	ILE	X	16	36.610	47.588	12.927	0.00	0.00
ATOM	242	CG2	ILE	X	16	36.590	49.554	13.716	0.00	0.00
ATOM	243	HG21	ILE	X	16	36.297	50.051	14.640	0.00	0.00
ATOM	244	HG22	ILE	X	16	35.980	50.004	12.933	0.00	0.00
ATOM	245	HG23	ILE	X	16	37.632	49.567	13.398	0.00	0.00
ATOM	246	CG1	ILE	X	16	36.731	47.426	14.980	0.00	0.00
ATOM	247	HG12	ILE	X	16	36.180	47.853	15.818	0.00	0.00
ATOM	248	HG13	ILE	X	16	36.623	46.344	14.903	0.00	0.00
ATOM	249	CD1	ILE	X	16	38.239	47.547	15.069	0.00	0.00
ATOM	250	HD11	ILE	X	16	38.502	48.600	15.176	0.00	0.00
ATOM	251	HD12	ILE	X	16	38.778	47.243	14.171	0.00	0.00
ATOM	252	HD13	ILE	X	16	38.610	47.039	15.959	0.00	0.00
ATOM	253	C	ILE	X	16	34.140	46.393	13.617	0.00	0.00
ATOM	254	O	ILE	X	16	33.805	45.777	14.611	0.00	0.00
ATOM	255	N	ARG	X	17	34.022	45.887	12.355	0.00	0.00
ATOM	256	H	ARG	X	17	34.077	46.600	11.642	0.00	0.00
ATOM	257	CA	ARG	X	17	33.859	44.510	12.035	0.00	0.00
ATOM	258	HA	ARG	X	17	33.073	44.194	12.721	0.00	0.00
ATOM	259	CB	ARG	X	17	33.570	44.418	10.567	0.00	0.00
ATOM	260	HB2	ARG	X	17	32.772	45.146	10.425	0.00	0.00
ATOM	261	HB3	ARG	X	17	34.355	44.777	9.901	0.00	0.00
ATOM	262	CG	ARG	X	17	32.969	43.124	10.055	0.00	0.00
ATOM	263	HG2	ARG	X	17	33.515	42.229	10.353	0.00	0.00
ATOM	264	HG3	ARG	X	17	31.955	43.179	10.451	0.00	0.00
ATOM	265	CD	ARG	X	17	32.872	43.209	8.525	0.00	0.00
ATOM	266	HD2	ARG	X	17	32.465	44.184	8.254	0.00	0.00
ATOM	267	HD3	ARG	X	17	33.876	43.222	8.100	0.00	0.00
ATOM	268	NE	ARG	X	17	31.996	42.087	8.013	0.00	0.00
ATOM	269	HE	ARG	X	17	31.142	42.318	7.526	0.00	0.00
ATOM	270	CZ	ARG	X	17	32.096	40.760	8.062	0.00	0.00
ATOM	271	NH1	ARG	X	17	33.170	40.132	8.549	0.00	0.00
ATOM	272	HH11	ARG	X	17	34.031	40.638	8.703	0.00	0.00
ATOM	273	HH12	ARG	X	17	33.197	39.133	8.402	0.00	0.00
ATOM	274	NH2	ARG	X	17	31.150	40.028	7.534	0.00	0.00
ATOM	275	HH21	ARG	X	17	30.257	40.449	7.322	0.00	0.00
ATOM	276	HH22	ARG	X	17	31.224	39.024	7.609	0.00	0.00
ATOM	277	C	ARG	X	17	35.215	43.814	12.472	0.00	0.00
ATOM	278	O	ARG	X	17	36.311	44.224	12.138	0.00	0.00
ATOM	279	N	LEU	X	18	35.099	42.706	13.189	0.00	0.00

ATOM	280	H	LEU	X	18	34.146	42.436	13.385	0.00	0.00
ATOM	281	CA	LEU	X	18	36.155	41.773	13.472	0.00	0.00
ATOM	282	HA	LEU	X	18	37.008	42.091	12.873	0.00	0.00
ATOM	283	CB	LEU	X	18	36.537	41.773	14.986	0.00	0.00
ATOM	284	HB2	LEU	X	18	35.673	41.422	15.549	0.00	0.00
ATOM	285	HB3	LEU	X	18	37.277	40.982	15.113	0.00	0.00
ATOM	286	CG	LEU	X	18	37.224	42.988	15.644	0.00	0.00
ATOM	287	HG	LEU	X	18	36.708	43.949	15.633	0.00	0.00
ATOM	288	CD1	LEU	X	18	37.320	42.534	17.140	0.00	0.00
ATOM	289	HD11	LEU	X	18	37.828	41.569	17.147	0.00	0.00
ATOM	290	HD12	LEU	X	18	36.339	42.463	17.610	0.00	0.00
ATOM	291	HD13	LEU	X	18	37.821	43.305	17.725	0.00	0.00
ATOM	292	CD2	LEU	X	18	38.600	43.333	15.048	0.00	0.00
ATOM	293	HD21	LEU	X	18	39.050	44.283	15.336	0.00	0.00
ATOM	294	HD22	LEU	X	18	39.325	42.561	15.307	0.00	0.00
ATOM	295	HD23	LEU	X	18	38.465	43.276	13.968	0.00	0.00
ATOM	296	C	LEU	X	18	35.778	40.358	13.008	0.00	0.00
ATOM	297	O	LEU	X	18	34.910	39.701	13.510	0.00	0.00
ATOM	298	N	LYS	X	19	36.606	39.847	12.172	0.00	0.00
ATOM	299	H	LYS	X	19	37.401	40.398	11.881	0.00	0.00
ATOM	300	CA	LYS	X	19	36.498	38.482	11.712	0.00	0.00
ATOM	301	HA	LYS	X	19	35.464	38.135	11.736	0.00	0.00
ATOM	302	CB	LYS	X	19	37.074	38.408	10.284	0.00	0.00
ATOM	303	HB2	LYS	X	19	36.558	37.586	9.788	0.00	0.00
ATOM	304	HB3	LYS	X	19	36.703	39.218	9.657	0.00	0.00
ATOM	305	CG	LYS	X	19	38.597	38.247	10.224	0.00	0.00
ATOM	306	HG2	LYS	X	19	39.053	39.018	10.845	0.00	0.00
ATOM	307	HG3	LYS	X	19	38.752	37.239	10.610	0.00	0.00
ATOM	308	CD	LYS	X	19	39.083	38.457	8.800	0.00	0.00
ATOM	309	HD2	LYS	X	19	38.470	37.805	8.178	0.00	0.00
ATOM	310	HD3	LYS	X	19	39.001	39.479	8.430	0.00	0.00
ATOM	311	CE	LYS	X	19	40.611	38.145	8.508	0.00	0.00
ATOM	312	HE2	LYS	X	19	41.287	38.879	8.946	0.00	0.00
ATOM	313	HE3	LYS	X	19	40.826	37.175	8.957	0.00	0.00
ATOM	314	NZ	LYS	X	19	40.866	38.138	7.030	0.00	0.00
ATOM	315	HZ1	LYS	X	19	40.353	37.421	6.536	0.00	0.00
ATOM	316	HZ2	LYS	X	19	40.440	38.974	6.656	0.00	0.00
ATOM	317	HZ3	LYS	X	19	41.870	38.051	6.959	0.00	0.00
ATOM	318	C	LYS	X	19	37.268	37.591	12.714	0.00	0.00
ATOM	319	O	LYS	X	19	38.312	38.056	13.192	0.00	0.00
ATOM	320	N	THR	X	20	36.901	36.351	12.837	0.00	0.00
ATOM	321	H	THR	X	20	36.158	35.974	12.265	0.00	0.00
ATOM	322	CA	THR	X	20	37.434	35.474	13.949	0.00	0.00
ATOM	323	HA	THR	X	20	38.508	35.622	14.057	0.00	0.00
ATOM	324	CB	THR	X	20	36.660	35.762	15.272	0.00	0.00
ATOM	325	HB	THR	X	20	36.058	34.908	15.583	0.00	0.00
ATOM	326	CG2	THR	X	20	37.567	36.114	16.484	0.00	0.00
ATOM	327	HG21	THR	X	20	38.015	37.099	16.352	0.00	0.00
ATOM	328	HG22	THR	X	20	38.360	35.370	16.558	0.00	0.00
ATOM	329	HG23	THR	X	20	36.918	36.152	17.359	0.00	0.00
ATOM	330	OG1	THR	X	20	35.741	36.829	15.075	0.00	0.00
ATOM	331	HG1	THR	X	20	35.143	36.618	14.354	0.00	0.00
ATOM	332	C	THR	X	20	37.148	34.031	13.541	0.00	0.00
ATOM	333	O	THR	X	20	36.283	33.833	12.708	0.00	0.00
ATOM	334	N	PRO	X	21	37.777	32.971	14.060	0.00	0.00
ATOM	335	CD	PRO	X	21	38.776	33.137	15.078	0.00	0.00
ATOM	336	HD2	PRO	X	21	38.150	33.131	15.971	0.00	0.00
ATOM	337	HD3	PRO	X	21	39.323	34.079	15.044	0.00	0.00
ATOM	338	CG	PRO	X	21	39.635	31.920	14.946	0.00	0.00
ATOM	339	HG2	PRO	X	21	40.105	31.736	15.912	0.00	0.00
ATOM	340	HG3	PRO	X	21	40.359	32.066	14.144	0.00	0.00
ATOM	341	CB	PRO	X	21	38.630	30.807	14.490	0.00	0.00
ATOM	342	HB2	PRO	X	21	37.999	30.418	15.290	0.00	0.00
ATOM	343	HB3	PRO	X	21	39.170	29.957	14.073	0.00	0.00
ATOM	344	CA	PRO	X	21	37.885	31.625	13.458	0.00	0.00
ATOM	345	HA	PRO	X	21	38.526	31.815	12.598	0.00	0.00
ATOM	346	C	PRO	X	21	36.488	31.042	13.042	0.00	0.00

ATOM	347	O	PRO	X	21	36.281	30.682	11.881	0.00	0.00
ATOM	348	N	GLY	X	22	35.523	30.921	13.991	0.00	0.00
ATOM	349	H	GLY	X	22	35.882	31.149	14.907	0.00	0.00
ATOM	350	CA	GLY	X	22	34.115	30.418	13.788	0.00	0.00
ATOM	351	HA2	GLY	X	22	34.000	29.658	13.015	0.00	0.00
ATOM	352	HA3	GLY	X	22	33.648	30.199	14.748	0.00	0.00
ATOM	353	C	GLY	X	22	33.111	31.409	13.317	0.00	0.00
ATOM	354	O	GLY	X	22	31.931	31.111	13.331	0.00	0.00
ATOM	355	N	GLY	X	23	33.508	32.588	12.890	0.00	0.00
ATOM	356	H	GLY	X	23	34.500	32.711	12.746	0.00	0.00
ATOM	357	CA	GLY	X	23	32.608	33.662	12.437	0.00	0.00
ATOM	358	HA2	GLY	X	23	32.690	33.838	11.365	0.00	0.00
ATOM	359	HA3	GLY	X	23	31.564	33.369	12.545	0.00	0.00
ATOM	360	C	GLY	X	23	32.916	35.056	13.032	0.00	0.00
ATOM	361	O	GLY	X	23	33.763	35.284	13.943	0.00	0.00
ATOM	362	N	PRO	X	24	32.293	36.155	12.531	0.00	0.00
ATOM	363	CD	PRO	X	24	31.041	36.099	11.718	0.00	0.00
ATOM	364	HD2	PRO	X	24	30.217	35.777	12.356	0.00	0.00
ATOM	365	HD3	PRO	X	24	31.157	35.389	10.899	0.00	0.00
ATOM	366	CG	PRO	X	24	30.742	37.575	11.334	0.00	0.00
ATOM	367	HG2	PRO	X	24	29.853	37.968	11.826	0.00	0.00
ATOM	368	HG3	PRO	X	24	30.542	37.670	10.267	0.00	0.00
ATOM	369	CB	PRO	X	24	32.022	38.378	11.660	0.00	0.00
ATOM	370	HB2	PRO	X	24	31.795	39.433	11.811	0.00	0.00
ATOM	371	HB3	PRO	X	24	32.723	38.321	10.827	0.00	0.00
ATOM	372	CA	PRO	X	24	32.629	37.561	12.792	0.00	0.00
ATOM	373	HA	PRO	X	24	33.717	37.627	12.759	0.00	0.00
ATOM	374	C	PRO	X	24	32.087	38.040	14.117	0.00	0.00
ATOM	375	O	PRO	X	24	31.141	37.413	14.585	0.00	0.00
ATOM	376	N	VAL	X	25	32.626	39.009	14.757	0.00	0.00
ATOM	377	H	VAL	X	25	33.535	39.323	14.447	0.00	0.00
ATOM	378	CA	VAL	X	25	32.120	39.755	15.928	0.00	0.00
ATOM	379	HA	VAL	X	25	31.043	39.644	16.055	0.00	0.00
ATOM	380	CB	VAL	X	25	32.686	39.262	17.278	0.00	0.00
ATOM	381	HB	VAL	X	25	32.169	39.703	18.130	0.00	0.00
ATOM	382	CG1	VAL	X	25	32.542	37.723	17.449	0.00	0.00
ATOM	383	HG11	VAL	X	25	32.711	37.464	18.494	0.00	0.00
ATOM	384	HG12	VAL	X	25	31.509	37.466	17.213	0.00	0.00
ATOM	385	HG13	VAL	X	25	33.191	37.138	16.797	0.00	0.00
ATOM	386	CG2	VAL	X	25	34.207	39.545	17.310	0.00	0.00
ATOM	387	HG21	VAL	X	25	34.475	40.592	17.170	0.00	0.00
ATOM	388	HG22	VAL	X	25	34.597	39.116	16.388	0.00	0.00
ATOM	389	HG23	VAL	X	25	34.495	39.162	18.289	0.00	0.00
ATOM	390	C	VAL	X	25	32.445	41.228	15.629	0.00	0.00
ATOM	391	O	VAL	X	25	32.929	41.569	14.532	0.00	0.00
ATOM	392	N	SER	X	26	32.079	42.109	16.585	0.00	0.00
ATOM	393	H	SER	X	26	31.627	41.648	17.362	0.00	0.00
ATOM	394	CA	SER	X	26	32.150	43.581	16.431	0.00	0.00
ATOM	395	HA	SER	X	26	32.945	43.719	15.698	0.00	0.00
ATOM	396	CB	SER	X	26	30.831	44.017	15.690	0.00	0.00
ATOM	397	HB2	SER	X	26	31.010	45.065	15.449	0.00	0.00
ATOM	398	HB3	SER	X	26	30.755	43.569	14.699	0.00	0.00
ATOM	399	OG	SER	X	26	29.697	43.734	16.513	0.00	0.00
ATOM	400	HG	SER	X	26	29.952	43.159	17.238	0.00	0.00
ATOM	401	C	SER	X	26	32.440	44.457	17.682	0.00	0.00
ATOM	402	O	SER	X	26	31.811	44.374	18.742	0.00	0.00
ATOM	403	N	ALA	X	27	33.453	45.268	17.518	0.00	0.00
ATOM	404	H	ALA	X	27	33.935	45.391	16.638	0.00	0.00
ATOM	405	CA	ALA	X	27	33.985	46.072	18.603	0.00	0.00
ATOM	406	HA	ALA	X	27	33.447	45.773	19.502	0.00	0.00
ATOM	407	CB	ALA	X	27	35.499	45.759	18.694	0.00	0.00
ATOM	408	HB1	ALA	X	27	35.850	46.353	19.537	0.00	0.00
ATOM	409	HB2	ALA	X	27	35.946	45.969	17.722	0.00	0.00
ATOM	410	HB3	ALA	X	27	35.508	44.698	18.946	0.00	0.00
ATOM	411	C	ALA	X	27	33.773	47.570	18.451	0.00	0.00
ATOM	412	O	ALA	X	27	34.184	48.173	17.441	0.00	0.00
ATOM	413	N	PHE	X	28	33.052	48.203	19.330	0.00	0.00

ATOM	414	H	PHE	X	28	32.745	47.611	20.089	0.00	0.00
ATOM	415	CA	PHE	X	28	32.930	49.560	19.632	0.00	0.00
ATOM	416	HA	PHE	X	28	33.179	50.124	18.733	0.00	0.00
ATOM	417	CB	PHE	X	28	31.494	49.825	20.053	0.00	0.00
ATOM	418	HB2	PHE	X	28	31.258	49.107	20.838	0.00	0.00
ATOM	419	HB3	PHE	X	28	31.479	50.851	20.422	0.00	0.00
ATOM	420	CG	PHE	X	28	30.521	49.679	18.990	0.00	0.00
ATOM	421	CD1	PHE	X	28	30.294	48.382	18.408	0.00	0.00
ATOM	422	HD1	PHE	X	28	30.740	47.483	18.809	0.00	0.00
ATOM	423	CE1	PHE	X	28	29.371	48.201	17.360	0.00	0.00
ATOM	424	HE1	PHE	X	28	29.134	47.234	16.941	0.00	0.00
ATOM	425	CZ	PHE	X	28	28.861	49.387	16.825	0.00	0.00
ATOM	426	HZ	PHE	X	28	28.203	49.214	15.987	0.00	0.00
ATOM	427	CE2	PHE	X	28	29.096	50.670	17.243	0.00	0.00
ATOM	428	HE2	PHE	X	28	28.598	51.490	16.746	0.00	0.00
ATOM	429	CD2	PHE	X	28	29.910	50.836	18.347	0.00	0.00
ATOM	430	HD2	PHE	X	28	30.082	51.813	18.775	0.00	0.00
ATOM	431	C	PHE	X	28	33.988	49.917	20.675	0.00	0.00
ATOM	432	O	PHE	X	28	33.953	49.287	21.731	0.00	0.00
ATOM	433	N	LEU	X	29	34.963	50.772	20.428	0.00	0.00
ATOM	434	H	LEU	X	29	34.889	51.220	19.525	0.00	0.00
ATOM	435	CA	LEU	X	29	36.239	50.966	21.155	0.00	0.00
ATOM	436	HA	LEU	X	29	36.244	50.516	22.148	0.00	0.00
ATOM	437	CB	LEU	X	29	37.371	50.345	20.311	0.00	0.00
ATOM	438	HB2	LEU	X	29	37.289	50.817	19.332	0.00	0.00
ATOM	439	HB3	LEU	X	29	38.331	50.714	20.673	0.00	0.00
ATOM	440	CG	LEU	X	29	37.491	48.836	20.149	0.00	0.00
ATOM	441	HG	LEU	X	29	36.507	48.428	19.920	0.00	0.00
ATOM	442	CD1	LEU	X	29	38.456	48.376	19.001	0.00	0.00
ATOM	443	HD11	LEU	X	29	38.289	47.312	18.833	0.00	0.00
ATOM	444	HD12	LEU	X	29	39.503	48.553	19.248	0.00	0.00
ATOM	445	HD13	LEU	X	29	38.245	48.966	18.109	0.00	0.00
ATOM	446	CD2	LEU	X	29	37.959	48.059	21.417	0.00	0.00
ATOM	447	HD21	LEU	X	29	37.209	48.139	22.204	0.00	0.00
ATOM	448	HD22	LEU	X	29	37.951	46.994	21.186	0.00	0.00
ATOM	449	HD23	LEU	X	29	38.942	48.423	21.718	0.00	0.00
ATOM	450	C	LEU	X	29	36.409	52.467	21.291	0.00	0.00
ATOM	451	O	LEU	X	29	36.234	53.231	20.342	0.00	0.00
ATOM	452	N	GLY	X	30	36.841	53.033	22.394	0.00	0.00
ATOM	453	H	GLY	X	30	37.027	52.413	23.170	0.00	0.00
ATOM	454	CA	GLY	X	30	36.954	54.470	22.647	0.00	0.00
ATOM	455	HA2	GLY	X	30	37.588	54.696	23.505	0.00	0.00
ATOM	456	HA3	GLY	X	30	37.350	54.860	21.710	0.00	0.00
ATOM	457	C	GLY	X	30	35.575	55.162	22.946	0.00	0.00
ATOM	458	O	GLY	X	30	35.464	56.290	22.657	0.00	0.00
ATOM	459	N	ILE	X	31	34.542	54.474	23.465	0.00	0.00
ATOM	460	H	ILE	X	31	34.832	53.619	23.917	0.00	0.00
ATOM	461	CA	ILE	X	31	33.133	55.016	23.773	0.00	0.00
ATOM	462	HA	ILE	X	31	32.734	55.456	22.859	0.00	0.00
ATOM	463	CB	ILE	X	31	32.271	53.779	24.045	0.00	0.00
ATOM	464	HB	ILE	X	31	32.743	53.464	24.976	0.00	0.00
ATOM	465	CG2	ILE	X	31	30.808	54.156	24.360	0.00	0.00
ATOM	466	HG21	ILE	X	31	30.299	53.454	25.019	0.00	0.00
ATOM	467	HG22	ILE	X	31	30.248	54.218	23.426	0.00	0.00
ATOM	468	HG23	ILE	X	31	30.807	55.057	24.973	0.00	0.00
ATOM	469	CG1	ILE	X	31	32.299	52.621	23.018	0.00	0.00
ATOM	470	HG12	ILE	X	31	31.796	52.934	22.103	0.00	0.00
ATOM	471	HG13	ILE	X	31	33.315	52.422	22.678	0.00	0.00
ATOM	472	CD1	ILE	X	31	31.486	51.368	23.512	0.00	0.00
ATOM	473	HD11	ILE	X	31	31.737	51.132	24.546	0.00	0.00
ATOM	474	HD12	ILE	X	31	31.838	50.465	23.013	0.00	0.00
ATOM	475	HD13	ILE	X	31	30.415	51.522	23.381	0.00	0.00
ATOM	476	C	ILE	X	31	33.340	56.047	24.944	0.00	0.00
ATOM	477	O	ILE	X	31	34.074	55.674	25.837	0.00	0.00
ATOM	478	N	PRO	X	32	32.891	57.291	24.838	0.00	0.00
ATOM	479	CD	PRO	X	32	32.364	57.901	23.574	0.00	0.00
ATOM	480	HD2	PRO	X	32	31.469	57.391	23.217	0.00	0.00

ATOM	481	HD3	PRO	X	32	33.207	57.933	22.884	0.00	0.00
ATOM	482	CG	PRO	X	32	31.971	59.322	23.984	0.00	0.00
ATOM	483	HG2	PRO	X	32	30.893	59.313	24.145	0.00	0.00
ATOM	484	HG3	PRO	X	32	32.203	60.006	23.168	0.00	0.00
ATOM	485	CB	PRO	X	32	32.868	59.621	25.207	0.00	0.00
ATOM	486	HB2	PRO	X	32	32.470	60.396	25.863	0.00	0.00
ATOM	487	HB3	PRO	X	32	33.851	59.829	24.784	0.00	0.00
ATOM	488	CA	PRO	X	32	32.913	58.284	25.885	0.00	0.00
ATOM	489	HA	PRO	X	32	33.918	58.162	26.289	0.00	0.00
ATOM	490	C	PRO	X	32	31.721	57.987	26.818	0.00	0.00
ATOM	491	O	PRO	X	32	30.795	57.368	26.396	0.00	0.00
ATOM	492	N	PHE	X	33	31.908	58.433	28.111	0.00	0.00
ATOM	493	H	PHE	X	33	32.706	59.027	28.284	0.00	0.00
ATOM	494	CA	PHE	X	33	30.862	58.327	29.154	0.00	0.00
ATOM	495	HA	PHE	X	33	29.898	58.576	28.710	0.00	0.00
ATOM	496	CB	PHE	X	33	30.746	56.944	29.757	0.00	0.00
ATOM	497	HB2	PHE	X	33	29.807	56.944	30.310	0.00	0.00
ATOM	498	HB3	PHE	X	33	30.811	56.220	28.945	0.00	0.00
ATOM	499	CG	PHE	X	33	31.978	56.574	30.630	0.00	0.00
ATOM	500	CD1	PHE	X	33	31.849	56.796	32.028	0.00	0.00
ATOM	501	HD1	PHE	X	33	30.980	57.233	32.498	0.00	0.00
ATOM	502	CE1	PHE	X	33	32.943	56.507	32.851	0.00	0.00
ATOM	503	HE1	PHE	X	33	32.852	56.938	33.838	0.00	0.00
ATOM	504	CZ	PHE	X	33	34.115	55.909	32.396	0.00	0.00
ATOM	505	HZ	PHE	X	33	34.902	55.706	33.107	0.00	0.00
ATOM	506	CE2	PHE	X	33	34.252	55.766	30.973	0.00	0.00
ATOM	507	HE2	PHE	X	33	35.180	55.409	30.551	0.00	0.00
ATOM	508	CD2	PHE	X	33	33.227	56.137	30.117	0.00	0.00
ATOM	509	HD2	PHE	X	33	33.310	56.040	29.044	0.00	0.00
ATOM	510	C	PHE	X	33	31.072	59.316	30.288	0.00	0.00
ATOM	511	O	PHE	X	33	30.153	59.593	31.026	0.00	0.00
ATOM	512	N	ALA	X	34	32.319	59.864	30.435	0.00	0.00
ATOM	513	H	ALA	X	34	32.915	59.635	29.652	0.00	0.00
ATOM	514	CA	ALA	X	34	32.806	60.806	31.476	0.00	0.00
ATOM	515	HA	ALA	X	34	32.053	61.155	32.183	0.00	0.00
ATOM	516	CB	ALA	X	34	33.776	60.111	32.352	0.00	0.00
ATOM	517	HB1	ALA	X	34	33.257	59.328	32.906	0.00	0.00
ATOM	518	HB2	ALA	X	34	34.123	60.843	33.081	0.00	0.00
ATOM	519	HB3	ALA	X	34	34.613	59.745	31.758	0.00	0.00
ATOM	520	C	ALA	X	34	33.463	62.010	30.853	0.00	0.00
ATOM	521	O	ALA	X	34	34.076	61.838	29.765	0.00	0.00
ATOM	522	N	GLU	X	35	33.631	63.181	31.480	0.00	0.00
ATOM	523	H	GLU	X	35	33.127	63.254	32.353	0.00	0.00
ATOM	524	CA	GLU	X	35	34.450	64.296	30.987	0.00	0.00
ATOM	525	HA	GLU	X	35	34.256	64.354	29.916	0.00	0.00
ATOM	526	CB	GLU	X	35	34.125	65.668	31.570	0.00	0.00
ATOM	527	HB2	GLU	X	35	34.260	65.750	32.649	0.00	0.00
ATOM	528	HB3	GLU	X	35	34.705	66.405	31.015	0.00	0.00
ATOM	529	CG	GLU	X	35	32.635	66.161	31.322	0.00	0.00
ATOM	530	HG2	GLU	X	35	31.961	65.519	31.888	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.564	67.183	31.695	0.00	0.00
ATOM	532	CD	GLU	X	35	32.136	66.175	29.854	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.912	66.208	29.795	0.00	0.00
ATOM	534	OE2	GLU	X	35	32.940	66.094	28.862	0.00	0.00
ATOM	535	C	GLU	X	35	35.888	64.119	31.302	0.00	0.00
ATOM	536	O	GLU	X	35	36.212	63.595	32.399	0.00	0.00
ATOM	537	N	PRO	X	36	36.804	64.625	30.445	0.00	0.00
ATOM	538	CD	PRO	X	36	36.645	65.332	29.153	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.369	66.349	29.433	0.00	0.00
ATOM	540	HD3	PRO	X	36	35.848	64.862	28.577	0.00	0.00
ATOM	541	CG	PRO	X	36	38.048	65.376	28.530	0.00	0.00
ATOM	542	HG2	PRO	X	36	38.185	66.277	27.933	0.00	0.00
ATOM	543	HG3	PRO	X	36	38.037	64.519	27.856	0.00	0.00
ATOM	544	CB	PRO	X	36	38.998	65.257	29.708	0.00	0.00
ATOM	545	HB2	PRO	X	36	39.337	66.224	30.080	0.00	0.00
ATOM	546	HB3	PRO	X	36	39.880	64.788	29.271	0.00	0.00
ATOM	547	CA	PRO	X	36	38.261	64.437	30.711	0.00	0.00

ATOM	548	HA	PRO	X	36	38.510	63.383	30.589	0.00	0.00
ATOM	549	C	PRO	X	36	38.763	64.783	32.140	0.00	0.00
ATOM	550	O	PRO	X	36	38.548	65.917	32.526	0.00	0.00
ATOM	551	N	PRO	X	37	39.388	63.899	32.867	0.00	0.00
ATOM	552	CD	PRO	X	37	39.604	62.489	32.593	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.196	62.260	31.707	0.00	0.00
ATOM	554	HD3	PRO	X	37	38.632	62.078	32.319	0.00	0.00
ATOM	555	CG	PRO	X	37	40.127	61.788	33.770	0.00	0.00
ATOM	556	HG2	PRO	X	37	41.212	61.762	33.868	0.00	0.00
ATOM	557	HG3	PRO	X	37	39.704	60.792	33.902	0.00	0.00
ATOM	558	CB	PRO	X	37	39.661	62.718	34.913	0.00	0.00
ATOM	559	HB2	PRO	X	37	40.164	62.507	35.856	0.00	0.00
ATOM	560	HB3	PRO	X	37	38.596	62.658	35.141	0.00	0.00
ATOM	561	CA	PRO	X	37	39.750	64.131	34.268	0.00	0.00
ATOM	562	HA	PRO	X	37	39.021	64.666	34.877	0.00	0.00
ATOM	563	C	PRO	X	37	41.035	64.909	34.337	0.00	0.00
ATOM	564	O	PRO	X	37	41.766	64.702	35.287	0.00	0.00
ATOM	565	N	MET	X	38	41.330	65.832	33.377	0.00	0.00
ATOM	566	H	MET	X	38	40.692	66.004	32.614	0.00	0.00
ATOM	567	CA	MET	X	38	42.597	66.487	33.456	0.00	0.00
ATOM	568	HA	MET	X	38	43.395	65.830	33.801	0.00	0.00
ATOM	569	CB	MET	X	38	43.073	66.964	32.021	0.00	0.00
ATOM	570	HB2	MET	X	38	44.018	67.492	32.143	0.00	0.00
ATOM	571	HB3	MET	X	38	43.199	66.057	31.430	0.00	0.00
ATOM	572	CG	MET	X	38	41.939	67.829	31.367	0.00	0.00
ATOM	573	HG2	MET	X	38	40.952	67.369	31.397	0.00	0.00
ATOM	574	HG3	MET	X	38	41.788	68.713	31.987	0.00	0.00
ATOM	575	SD	MET	X	38	42.351	68.357	29.652	0.00	0.00
ATOM	576	CE	MET	X	38	42.688	66.806	28.803	0.00	0.00
ATOM	577	HE1	MET	X	38	41.924	66.032	28.728	0.00	0.00
ATOM	578	HE2	MET	X	38	42.846	66.987	27.740	0.00	0.00
ATOM	579	HE3	MET	X	38	43.597	66.370	29.217	0.00	0.00
ATOM	580	C	MET	X	38	42.693	67.651	34.525	0.00	0.00
ATOM	581	O	MET	X	38	41.688	68.365	34.811	0.00	0.00
ATOM	582	N	GLY	X	39	43.953	68.055	34.783	0.00	0.00
ATOM	583	H	GLY	X	39	44.718	67.415	34.624	0.00	0.00
ATOM	584	CA	GLY	X	39	44.384	69.369	35.342	0.00	0.00
ATOM	585	HA2	GLY	X	39	45.436	69.300	35.619	0.00	0.00
ATOM	586	HA3	GLY	X	39	44.106	70.066	34.552	0.00	0.00
ATOM	587	C	GLY	X	39	43.570	69.655	36.680	0.00	0.00
ATOM	588	O	GLY	X	39	43.672	68.906	37.626	0.00	0.00
ATOM	589	N	PRO	X	40	42.728	70.691	36.686	0.00	0.00
ATOM	590	CD	PRO	X	40	42.506	71.711	35.650	0.00	0.00
ATOM	591	HD2	PRO	X	40	42.080	71.289	34.739	0.00	0.00
ATOM	592	HD3	PRO	X	40	43.409	72.212	35.301	0.00	0.00
ATOM	593	CG	PRO	X	40	41.584	72.778	36.275	0.00	0.00
ATOM	594	HG2	PRO	X	40	41.069	73.369	35.518	0.00	0.00
ATOM	595	HG3	PRO	X	40	42.263	73.403	36.855	0.00	0.00
ATOM	596	CB	PRO	X	40	40.730	71.852	37.148	0.00	0.00
ATOM	597	HB2	PRO	X	40	39.995	71.406	36.478	0.00	0.00
ATOM	598	HB3	PRO	X	40	40.125	72.346	37.907	0.00	0.00
ATOM	599	CA	PRO	X	40	41.734	70.869	37.789	0.00	0.00
ATOM	600	HA	PRO	X	40	42.324	71.319	38.588	0.00	0.00
ATOM	601	C	PRO	X	40	40.875	69.692	38.338	0.00	0.00
ATOM	602	O	PRO	X	40	40.527	69.676	39.495	0.00	0.00
ATOM	603	N	ARG	X	41	40.624	68.697	37.487	0.00	0.00
ATOM	604	H	ARG	X	41	40.926	68.810	36.530	0.00	0.00
ATOM	605	CA	ARG	X	41	39.920	67.473	37.905	0.00	0.00
ATOM	606	HA	ARG	X	41	39.195	67.694	38.688	0.00	0.00
ATOM	607	CB	ARG	X	41	39.209	66.910	36.702	0.00	0.00
ATOM	608	HB2	ARG	X	41	39.969	66.768	35.934	0.00	0.00
ATOM	609	HB3	ARG	X	41	38.723	65.959	36.920	0.00	0.00
ATOM	610	CG	ARG	X	41	38.125	67.886	36.159	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.390	67.968	36.960	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.679	68.784	35.887	0.00	0.00
ATOM	613	CD	ARG	X	41	37.353	67.284	34.999	0.00	0.00
ATOM	614	HD2	ARG	X	41	38.074	67.209	34.185	0.00	0.00

ATOM	615	HD3	ARG	X	41	36.971	66.346	35.402	0.00	0.00
ATOM	616	NE	ARG	X	41	36.252	68.073	34.461	0.00	0.00
ATOM	617	HE	ARG	X	41	35.373	67.946	34.942	0.00	0.00
ATOM	618	CZ	ARG	X	41	36.102	68.643	33.351	0.00	0.00
ATOM	619	NH1	ARG	X	41	37.002	68.698	32.352	0.00	0.00
ATOM	620	HH11	ARG	X	41	37.896	68.244	32.473	0.00	0.00
ATOM	621	HH12	ARG	X	41	36.801	68.926	31.388	0.00	0.00
ATOM	622	NH2	ARG	X	41	34.937	69.071	33.062	0.00	0.00
ATOM	623	HH21	ARG	X	41	34.189	68.991	33.735	0.00	0.00
ATOM	624	HH22	ARG	X	41	34.768	69.261	32.084	0.00	0.00
ATOM	625	C	ARG	X	41	40.879	66.263	38.376	0.00	0.00
ATOM	626	O	ARG	X	41	40.482	65.170	38.767	0.00	0.00
ATOM	627	N	ARG	X	42	42.202	66.522	38.307	0.00	0.00
ATOM	628	H	ARG	X	42	42.507	67.443	38.026	0.00	0.00
ATOM	629	CA	ARG	X	42	43.170	65.522	38.673	0.00	0.00
ATOM	630	HA	ARG	X	42	42.928	64.592	38.159	0.00	0.00
ATOM	631	CB	ARG	X	42	44.617	65.930	38.323	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.680	66.039	37.240	0.00	0.00
ATOM	633	HB3	ARG	X	42	44.840	66.849	38.864	0.00	0.00
ATOM	634	CG	ARG	X	42	45.663	64.848	38.685	0.00	0.00
ATOM	635	HG2	ARG	X	42	45.430	64.353	39.627	0.00	0.00
ATOM	636	HG3	ARG	X	42	45.555	63.939	38.092	0.00	0.00
ATOM	637	CD	ARG	X	42	47.169	65.297	38.631	0.00	0.00
ATOM	638	HD2	ARG	X	42	47.333	66.041	39.410	0.00	0.00
ATOM	639	HD3	ARG	X	42	47.869	64.468	38.736	0.00	0.00
ATOM	640	NE	ARG	X	42	47.432	65.855	37.289	0.00	0.00
ATOM	641	HE	ARG	X	42	46.897	65.381	36.575	0.00	0.00
ATOM	642	CZ	ARG	X	42	48.287	66.828	36.884	0.00	0.00
ATOM	643	NH1	ARG	X	42	48.990	67.423	37.851	0.00	0.00
ATOM	644	HH11	ARG	X	42	48.860	67.255	38.838	0.00	0.00
ATOM	645	HH12	ARG	X	42	49.775	68.012	37.615	0.00	0.00
ATOM	646	NH2	ARG	X	42	48.539	66.978	35.574	0.00	0.00
ATOM	647	HH21	ARG	X	42	48.160	66.477	34.783	0.00	0.00
ATOM	648	HH22	ARG	X	42	49.052	67.810	35.319	0.00	0.00
ATOM	649	C	ARG	X	42	43.069	65.271	40.154	0.00	0.00
ATOM	650	O	ARG	X	42	43.061	66.290	40.898	0.00	0.00
ATOM	651	N	PHE	X	43	42.849	64.000	40.602	0.00	0.00
ATOM	652	H	PHE	X	43	42.792	63.325	39.853	0.00	0.00
ATOM	653	CA	PHE	X	43	42.701	63.408	41.960	0.00	0.00
ATOM	654	HA	PHE	X	43	42.987	62.360	41.864	0.00	0.00
ATOM	655	CB	PHE	X	43	43.574	64.167	42.971	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.136	65.089	43.352	0.00	0.00
ATOM	657	HB3	PHE	X	43	43.526	63.616	43.911	0.00	0.00
ATOM	658	CG	PHE	X	43	45.051	64.294	42.667	0.00	0.00
ATOM	659	CD1	PHE	X	43	45.874	63.171	42.248	0.00	0.00
ATOM	660	HD1	PHE	X	43	45.456	62.175	42.257	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.224	63.429	42.026	0.00	0.00
ATOM	662	HE1	PHE	X	43	47.941	62.667	41.757	0.00	0.00
ATOM	663	CZ	PHE	X	43	47.683	64.709	42.095	0.00	0.00
ATOM	664	HZ	PHE	X	43	48.721	64.726	41.796	0.00	0.00
ATOM	665	CE2	PHE	X	43	46.909	65.831	42.357	0.00	0.00
ATOM	666	HE2	PHE	X	43	47.282	66.836	42.229	0.00	0.00
ATOM	667	CD2	PHE	X	43	45.564	65.575	42.754	0.00	0.00
ATOM	668	HD2	PHE	X	43	44.864	66.284	43.172	0.00	0.00
ATOM	669	C	PHE	X	43	41.244	63.613	42.472	0.00	0.00
ATOM	670	O	PHE	X	43	41.007	63.195	43.595	0.00	0.00
ATOM	671	N	LEU	X	44	40.298	64.235	41.762	0.00	0.00
ATOM	672	H	LEU	X	44	40.685	64.608	40.907	0.00	0.00
ATOM	673	CA	LEU	X	44	38.863	64.433	42.154	0.00	0.00
ATOM	674	HA	LEU	X	44	38.826	64.371	43.242	0.00	0.00
ATOM	675	CB	LEU	X	44	38.359	65.812	41.685	0.00	0.00
ATOM	676	HB2	LEU	X	44	38.810	66.016	40.714	0.00	0.00
ATOM	677	HB3	LEU	X	44	37.303	65.709	41.432	0.00	0.00
ATOM	678	CG	LEU	X	44	38.693	67.023	42.534	0.00	0.00
ATOM	679	HG	LEU	X	44	39.775	66.998	42.660	0.00	0.00
ATOM	680	CD1	LEU	X	44	38.357	68.307	41.749	0.00	0.00
ATOM	681	HD11	LEU	X	44	38.576	69.224	42.296	0.00	0.00

ATOM	682	HD12	LEU	X	44	37.291	68.323	41.521	0.00	0.00
ATOM	683	HD13	LEU	X	44	38.990	68.319	40.862	0.00	0.00
ATOM	684	CD2	LEU	X	44	37.993	66.908	43.907	0.00	0.00
ATOM	685	HD21	LEU	X	44	38.375	67.712	44.536	0.00	0.00
ATOM	686	HD22	LEU	X	44	36.919	67.088	43.843	0.00	0.00
ATOM	687	HD23	LEU	X	44	38.171	65.931	44.356	0.00	0.00
ATOM	688	C	LEU	X	44	37.931	63.412	41.534	0.00	0.00
ATOM	689	O	LEU	X	44	38.354	62.680	40.584	0.00	0.00
ATOM	690	N	PRO	X	45	36.744	63.201	42.027	0.00	0.00
ATOM	691	CD	PRO	X	45	36.019	63.911	43.088	0.00	0.00
ATOM	692	HD2	PRO	X	45	35.606	64.852	42.724	0.00	0.00
ATOM	693	HD3	PRO	X	45	36.573	64.233	43.969	0.00	0.00
ATOM	694	CG	PRO	X	45	34.902	63.029	43.598	0.00	0.00
ATOM	695	HG2	PRO	X	45	34.023	63.580	43.932	0.00	0.00
ATOM	696	HG3	PRO	X	45	35.317	62.437	44.414	0.00	0.00
ATOM	697	CB	PRO	X	45	34.675	62.126	42.428	0.00	0.00
ATOM	698	HB2	PRO	X	45	33.796	62.539	41.933	0.00	0.00
ATOM	699	HB3	PRO	X	45	34.478	61.129	42.821	0.00	0.00
ATOM	700	CA	PRO	X	45	35.856	62.231	41.466	0.00	0.00
ATOM	701	HA	PRO	X	45	36.383	61.276	41.479	0.00	0.00
ATOM	702	C	PRO	X	45	35.367	62.694	40.130	0.00	0.00
ATOM	703	O	PRO	X	45	35.262	63.961	39.857	0.00	0.00
ATOM	704	N	PRO	X	46	35.058	61.644	39.283	0.00	0.00
ATOM	705	CD	PRO	X	46	35.158	60.205	39.600	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.758	59.830	40.542	0.00	0.00
ATOM	707	HD3	PRO	X	46	36.146	59.743	39.576	0.00	0.00
ATOM	708	CG	PRO	X	46	34.268	59.598	38.493	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.205	59.684	38.719	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.445	58.525	38.415	0.00	0.00
ATOM	711	CB	PRO	X	46	34.625	60.441	37.280	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.909	60.446	36.458	0.00	0.00
ATOM	713	HB3	PRO	X	46	35.603	60.231	36.848	0.00	0.00
ATOM	714	CA	PRO	X	46	34.666	61.812	37.879	0.00	0.00
ATOM	715	HA	PRO	X	46	35.347	62.460	37.327	0.00	0.00
ATOM	716	C	PRO	X	46	33.261	62.462	37.813	0.00	0.00
ATOM	717	O	PRO	X	46	32.527	62.435	38.824	0.00	0.00
ATOM	718	N	GLU	X	47	32.975	63.062	36.658	0.00	0.00
ATOM	719	H	GLU	X	47	33.722	63.083	35.979	0.00	0.00
ATOM	720	CA	GLU	X	47	31.658	63.546	36.356	0.00	0.00
ATOM	721	HA	GLU	X	47	30.982	63.053	37.055	0.00	0.00
ATOM	722	CB	GLU	X	47	31.590	65.100	36.597	0.00	0.00
ATOM	723	HB2	GLU	X	47	30.600	65.522	36.428	0.00	0.00
ATOM	724	HB3	GLU	X	47	31.976	65.325	37.591	0.00	0.00
ATOM	725	CG	GLU	X	47	32.554	65.829	35.554	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.574	65.475	35.707	0.00	0.00
ATOM	727	HG3	GLU	X	47	32.264	65.596	34.529	0.00	0.00
ATOM	728	CD	GLU	X	47	32.525	67.333	35.512	0.00	0.00
ATOM	729	OE1	GLU	X	47	31.417	67.964	35.432	0.00	0.00
ATOM	730	OE2	GLU	X	47	33.679	67.935	35.488	0.00	0.00
ATOM	731	C	GLU	X	47	31.163	63.003	34.980	0.00	0.00
ATOM	732	O	GLU	X	47	32.025	62.917	34.072	0.00	0.00
ATOM	733	N	PRO	X	48	29.847	62.902	34.679	0.00	0.00
ATOM	734	CD	PRO	X	48	28.778	63.342	35.558	0.00	0.00
ATOM	735	HD2	PRO	X	48	29.005	64.399	35.695	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.885	62.869	36.534	0.00	0.00
ATOM	737	CG	PRO	X	48	27.486	63.154	34.827	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.014	64.108	34.594	0.00	0.00
ATOM	739	HG3	PRO	X	48	26.893	62.703	35.623	0.00	0.00
ATOM	740	CB	PRO	X	48	27.780	62.167	33.744	0.00	0.00
ATOM	741	HB2	PRO	X	48	27.184	62.229	32.834	0.00	0.00
ATOM	742	HB3	PRO	X	48	27.679	61.106	33.974	0.00	0.00
ATOM	743	CA	PRO	X	48	29.272	62.376	33.445	0.00	0.00
ATOM	744	HA	PRO	X	48	29.728	61.404	33.252	0.00	0.00
ATOM	745	C	PRO	X	48	29.471	63.263	32.223	0.00	0.00
ATOM	746	O	PRO	X	48	29.417	64.486	32.274	0.00	0.00
ATOM	747	N	LYS	X	49	29.720	62.639	31.088	0.00	0.00
ATOM	748	H	LYS	X	49	29.677	61.630	31.078	0.00	0.00

ATOM	749	CA	LYS	X	49	29.674	63.326	29.754	0.00	0.00
ATOM	750	HA	LYS	X	49	30.517	64.000	29.597	0.00	0.00
ATOM	751	CB	LYS	X	49	29.964	62.204	28.702	0.00	0.00
ATOM	752	HB2	LYS	X	49	30.964	61.823	28.909	0.00	0.00
ATOM	753	HB3	LYS	X	49	29.234	61.397	28.771	0.00	0.00
ATOM	754	CG	LYS	X	49	29.879	62.616	27.222	0.00	0.00
ATOM	755	HG2	LYS	X	49	30.102	61.733	26.622	0.00	0.00
ATOM	756	HG3	LYS	X	49	28.855	62.912	26.995	0.00	0.00
ATOM	757	CD	LYS	X	49	30.835	63.803	26.742	0.00	0.00
ATOM	758	HD2	LYS	X	49	30.674	64.008	25.684	0.00	0.00
ATOM	759	HD3	LYS	X	49	30.561	64.703	27.293	0.00	0.00
ATOM	760	CE	LYS	X	49	32.339	63.455	26.963	0.00	0.00
ATOM	761	HE2	LYS	X	49	32.535	63.122	27.982	0.00	0.00
ATOM	762	HE3	LYS	X	49	32.614	62.675	26.253	0.00	0.00
ATOM	763	NZ	LYS	X	49	33.238	64.625	26.724	0.00	0.00
ATOM	764	HZ1	LYS	X	49	34.146	64.185	26.741	0.00	0.00
ATOM	765	HZ2	LYS	X	49	33.200	65.064	25.815	0.00	0.00
ATOM	766	HZ3	LYS	X	49	33.139	65.349	27.422	0.00	0.00
ATOM	767	C	LYS	X	49	28.310	63.997	29.438	0.00	0.00
ATOM	768	O	LYS	X	49	27.269	63.364	29.468	0.00	0.00
ATOM	769	N	GLN	X	50	28.283	65.246	29.046	0.00	0.00
ATOM	770	H	GLN	X	50	29.124	65.780	29.218	0.00	0.00
ATOM	771	CA	GLN	X	50	27.209	66.002	28.294	0.00	0.00
ATOM	772	HA	GLN	X	50	26.197	65.929	28.693	0.00	0.00
ATOM	773	CB	GLN	X	50	27.644	67.489	28.276	0.00	0.00
ATOM	774	HB2	GLN	X	50	27.777	67.618	29.350	0.00	0.00
ATOM	775	HB3	GLN	X	50	28.648	67.438	27.854	0.00	0.00
ATOM	776	CG	GLN	X	50	26.825	68.569	27.524	0.00	0.00
ATOM	777	HG2	GLN	X	50	26.609	68.272	26.498	0.00	0.00
ATOM	778	HG3	GLN	X	50	25.837	68.713	27.962	0.00	0.00
ATOM	779	CD	GLN	X	50	27.446	70.031	27.567	0.00	0.00
ATOM	780	OE1	GLN	X	50	28.062	70.304	28.600	0.00	0.00
ATOM	781	NE2	GLN	X	50	27.245	70.713	26.469	0.00	0.00
ATOM	782	HE21	GLN	X	50	27.525	71.683	26.459	0.00	0.00
ATOM	783	HE22	GLN	X	50	26.771	70.374	25.645	0.00	0.00
ATOM	784	C	GLN	X	50	27.069	65.517	26.891	0.00	0.00
ATOM	785	O	GLN	X	50	28.130	65.447	26.185	0.00	0.00
ATOM	786	N	PRO	X	51	25.808	65.302	26.379	0.00	0.00
ATOM	787	CD	PRO	X	51	24.516	65.366	27.156	0.00	0.00
ATOM	788	HD2	PRO	X	51	24.301	66.420	27.335	0.00	0.00
ATOM	789	HD3	PRO	X	51	24.559	64.785	28.077	0.00	0.00
ATOM	790	CG	PRO	X	51	23.477	64.736	26.288	0.00	0.00
ATOM	791	HG2	PRO	X	51	22.539	65.214	26.568	0.00	0.00
ATOM	792	HG3	PRO	X	51	23.256	63.680	26.441	0.00	0.00
ATOM	793	CB	PRO	X	51	23.966	64.990	24.850	0.00	0.00
ATOM	794	HB2	PRO	X	51	23.851	66.021	24.514	0.00	0.00
ATOM	795	HB3	PRO	X	51	23.498	64.288	24.160	0.00	0.00
ATOM	796	CA	PRO	X	51	25.473	64.787	25.005	0.00	0.00
ATOM	797	HA	PRO	X	51	25.710	63.723	24.991	0.00	0.00
ATOM	798	C	PRO	X	51	26.181	65.545	23.898	0.00	0.00
ATOM	799	O	PRO	X	51	26.563	66.743	24.012	0.00	0.00
ATOM	800	N	TRP	X	52	26.408	64.775	22.828	0.00	0.00
ATOM	801	H	TRP	X	52	26.145	63.800	22.822	0.00	0.00
ATOM	802	CA	TRP	X	52	27.313	65.174	21.688	0.00	0.00
ATOM	803	HA	TRP	X	52	27.675	66.194	21.819	0.00	0.00
ATOM	804	CB	TRP	X	52	28.413	64.181	21.547	0.00	0.00
ATOM	805	HB2	TRP	X	52	29.068	64.545	20.755	0.00	0.00
ATOM	806	HB3	TRP	X	52	28.869	64.212	22.537	0.00	0.00
ATOM	807	CG	TRP	X	52	28.016	62.761	21.262	0.00	0.00
ATOM	808	CD1	TRP	X	52	27.522	62.244	20.070	0.00	0.00
ATOM	809	HD1	TRP	X	52	27.413	62.838	19.175	0.00	0.00
ATOM	810	NE1	TRP	X	52	27.073	60.973	20.260	0.00	0.00
ATOM	811	HE1	TRP	X	52	26.661	60.437	19.509	0.00	0.00
ATOM	812	CE2	TRP	X	52	27.315	60.580	21.570	0.00	0.00
ATOM	813	CZ2	TRP	X	52	27.138	59.322	22.100	0.00	0.00
ATOM	814	HZ2	TRP	X	52	26.789	58.474	21.529	0.00	0.00
ATOM	815	CH2	TRP	X	52	27.510	59.141	23.459	0.00	0.00

ATOM	816	HH2	TRP	X	52	27.207	58.216	23.927	0.00	0.00
ATOM	817	CZ3	TRP	X	52	28.117	60.172	24.202	0.00	0.00
ATOM	818	HZ3	TRP	X	52	28.402	60.155	25.243	0.00	0.00
ATOM	819	CE3	TRP	X	52	28.325	61.399	23.574	0.00	0.00
ATOM	820	HE3	TRP	X	52	28.841	62.152	24.152	0.00	0.00
ATOM	821	CD2	TRP	X	52	27.929	61.697	22.246	0.00	0.00
ATOM	822	C	TRP	X	52	26.565	65.278	20.309	0.00	0.00
ATOM	823	O	TRP	X	52	25.453	64.757	20.134	0.00	0.00
ATOM	824	N	SER	X	53	27.122	66.007	19.311	0.00	0.00
ATOM	825	H	SER	X	53	28.014	66.424	19.534	0.00	0.00
ATOM	826	CA	SER	X	53	26.617	65.916	17.917	0.00	0.00
ATOM	827	HA	SER	X	53	25.535	65.794	17.858	0.00	0.00
ATOM	828	CB	SER	X	53	26.801	67.283	17.236	0.00	0.00
ATOM	829	HB2	SER	X	53	27.694	67.817	17.559	0.00	0.00
ATOM	830	HB3	SER	X	53	26.828	67.244	16.147	0.00	0.00
ATOM	831	OG	SER	X	53	25.640	68.069	17.564	0.00	0.00
ATOM	832	HG	SER	X	53	25.803	68.930	17.174	0.00	0.00
ATOM	833	C	SER	X	53	27.158	64.723	17.126	0.00	0.00
ATOM	834	O	SER	X	53	28.266	64.187	17.236	0.00	0.00
ATOM	835	N	GLY	X	54	26.359	64.327	15.996	0.00	0.00
ATOM	836	H	GLY	X	54	25.420	64.690	15.920	0.00	0.00
ATOM	837	CA	GLY	X	54	26.804	63.444	15.048	0.00	0.00
ATOM	838	HA2	GLY	X	54	26.116	63.458	14.203	0.00	0.00
ATOM	839	HA3	GLY	X	54	27.783	63.725	14.661	0.00	0.00
ATOM	840	C	GLY	X	54	26.974	62.014	15.579	0.00	0.00
ATOM	841	O	GLY	X	54	26.170	61.534	16.344	0.00	0.00
ATOM	842	N	VAL	X	55	28.038	61.287	15.226	0.00	0.00
ATOM	843	H	VAL	X	55	28.575	61.819	14.556	0.00	0.00
ATOM	844	CA	VAL	X	55	28.519	59.934	15.480	0.00	0.00
ATOM	845	HA	VAL	X	55	27.827	59.385	16.120	0.00	0.00
ATOM	846	CB	VAL	X	55	28.611	59.130	14.161	0.00	0.00
ATOM	847	HB	VAL	X	55	29.514	59.481	13.661	0.00	0.00
ATOM	848	CG1	VAL	X	55	28.851	57.678	14.508	0.00	0.00
ATOM	849	HG11	VAL	X	55	29.923	57.481	14.524	0.00	0.00
ATOM	850	HG12	VAL	X	55	28.513	57.337	15.486	0.00	0.00
ATOM	851	HG13	VAL	X	55	28.385	56.983	13.809	0.00	0.00
ATOM	852	CG2	VAL	X	55	27.321	59.268	13.247	0.00	0.00
ATOM	853	HG21	VAL	X	55	27.132	60.331	13.095	0.00	0.00
ATOM	854	HG22	VAL	X	55	26.544	58.801	13.853	0.00	0.00
ATOM	855	HG23	VAL	X	55	27.355	58.645	12.353	0.00	0.00
ATOM	856	C	VAL	X	55	29.875	60.099	16.150	0.00	0.00
ATOM	857	O	VAL	X	55	30.812	60.542	15.487	0.00	0.00
ATOM	858	N	VAL	X	56	29.980	59.737	17.381	0.00	0.00
ATOM	859	H	VAL	X	56	29.204	59.406	17.936	0.00	0.00
ATOM	860	CA	VAL	X	56	31.263	59.503	18.011	0.00	0.00
ATOM	861	HA	VAL	X	56	32.010	60.254	17.756	0.00	0.00
ATOM	862	CB	VAL	X	56	31.263	59.452	19.522	0.00	0.00
ATOM	863	HB	VAL	X	56	30.561	58.724	19.930	0.00	0.00
ATOM	864	CG1	VAL	X	56	32.630	59.010	20.152	0.00	0.00
ATOM	865	HG11	VAL	X	56	32.379	58.865	21.203	0.00	0.00
ATOM	866	HG12	VAL	X	56	33.035	58.120	19.669	0.00	0.00
ATOM	867	HG13	VAL	X	56	33.393	59.788	20.177	0.00	0.00
ATOM	868	CG2	VAL	X	56	30.784	60.782	20.104	0.00	0.00
ATOM	869	HG21	VAL	X	56	29.706	60.825	19.950	0.00	0.00
ATOM	870	HG22	VAL	X	56	31.492	61.514	19.715	0.00	0.00
ATOM	871	HG23	VAL	X	56	30.920	60.700	21.183	0.00	0.00
ATOM	872	C	VAL	X	56	31.760	58.222	17.451	0.00	0.00
ATOM	873	O	VAL	X	56	31.125	57.161	17.490	0.00	0.00
ATOM	874	N	ASP	X	57	33.003	58.358	16.903	0.00	0.00
ATOM	875	H	ASP	X	57	33.243	59.311	16.672	0.00	0.00
ATOM	876	CA	ASP	X	57	33.729	57.374	16.087	0.00	0.00
ATOM	877	HA	ASP	X	57	33.008	56.789	15.516	0.00	0.00
ATOM	878	CB	ASP	X	57	34.624	58.036	15.057	0.00	0.00
ATOM	879	HB2	ASP	X	57	34.116	58.881	14.593	0.00	0.00
ATOM	880	HB3	ASP	X	57	35.512	58.488	15.498	0.00	0.00
ATOM	881	CG	ASP	X	57	35.001	56.983	13.994	0.00	0.00
ATOM	882	OD1	ASP	X	57	34.041	56.656	13.292	0.00	0.00

ATOM	883	OD2	ASP	X	57	36.234	56.648	13.846	0.00	0.00
ATOM	884	C	ASP	X	57	34.492	56.340	16.975	0.00	0.00
ATOM	885	O	ASP	X	57	35.657	56.482	17.400	0.00	0.00
ATOM	886	N	ALA	X	58	33.779	55.327	17.479	0.00	0.00
ATOM	887	H	ALA	X	58	32.844	55.269	17.101	0.00	0.00
ATOM	888	CA	ALA	X	58	34.095	54.363	18.563	0.00	0.00
ATOM	889	HA	ALA	X	58	34.696	54.812	19.353	0.00	0.00
ATOM	890	CB	ALA	X	58	32.845	54.018	19.367	0.00	0.00
ATOM	891	HB1	ALA	X	58	33.072	53.531	20.316	0.00	0.00
ATOM	892	HB2	ALA	X	58	32.216	53.362	18.765	0.00	0.00
ATOM	893	HB3	ALA	X	58	32.304	54.935	19.598	0.00	0.00
ATOM	894	C	ALA	X	58	34.932	53.180	17.926	0.00	0.00
ATOM	895	O	ALA	X	58	34.583	52.023	18.113	0.00	0.00
ATOM	896	N	THR	X	59	35.950	53.523	17.160	0.00	0.00
ATOM	897	H	THR	X	59	36.083	54.511	16.999	0.00	0.00
ATOM	898	CA	THR	X	59	36.755	52.489	16.414	0.00	0.00
ATOM	899	HA	THR	X	59	36.209	51.551	16.512	0.00	0.00
ATOM	900	CB	THR	X	59	36.834	52.975	14.962	0.00	0.00
ATOM	901	HB	THR	X	59	37.361	52.276	14.313	0.00	0.00
ATOM	902	CG2	THR	X	59	35.348	53.328	14.351	0.00	0.00
ATOM	903	HG21	THR	X	59	34.740	52.431	14.464	0.00	0.00
ATOM	904	HG22	THR	X	59	35.445	53.604	13.301	0.00	0.00
ATOM	905	HG23	THR	X	59	34.759	54.115	14.823	0.00	0.00
ATOM	906	OG1	THR	X	59	37.503	54.203	14.892	0.00	0.00
ATOM	907	HG1	THR	X	59	37.045	54.854	14.355	0.00	0.00
ATOM	908	C	THR	X	59	38.153	52.177	16.936	0.00	0.00
ATOM	909	O	THR	X	59	38.750	51.323	16.315	0.00	0.00
ATOM	910	N	THR	X	60	38.556	52.806	18.046	0.00	0.00
ATOM	911	H	THR	X	60	37.944	53.447	18.529	0.00	0.00
ATOM	912	CA	THR	X	60	39.809	52.506	18.721	0.00	0.00
ATOM	913	HA	THR	X	60	39.732	51.432	18.893	0.00	0.00
ATOM	914	CB	THR	X	60	41.055	52.764	17.815	0.00	0.00
ATOM	915	HB	THR	X	60	40.744	52.498	16.805	0.00	0.00
ATOM	916	CG2	THR	X	60	41.416	54.249	17.757	0.00	0.00
ATOM	917	HG21	THR	X	60	41.879	54.518	18.707	0.00	0.00
ATOM	918	HG22	THR	X	60	40.554	54.884	17.552	0.00	0.00
ATOM	919	HG23	THR	X	60	42.171	54.461	16.999	0.00	0.00
ATOM	920	OG1	THR	X	60	42.155	51.984	18.310	0.00	0.00
ATOM	921	HG1	THR	X	60	42.663	51.547	17.624	0.00	0.00
ATOM	922	C	THR	X	60	40.058	53.082	20.090	0.00	0.00
ATOM	923	O	THR	X	60	39.294	53.952	20.564	0.00	0.00
ATOM	924	N	PHE	X	61	41.081	52.659	20.746	0.00	0.00
ATOM	925	H	PHE	X	61	41.737	52.104	20.214	0.00	0.00
ATOM	926	CA	PHE	X	61	41.468	53.209	22.089	0.00	0.00
ATOM	927	HA	PHE	X	61	40.574	53.371	22.690	0.00	0.00
ATOM	928	CB	PHE	X	61	42.441	52.352	22.885	0.00	0.00
ATOM	929	HB2	PHE	X	61	43.306	52.129	22.260	0.00	0.00
ATOM	930	HB3	PHE	X	61	42.775	52.888	23.774	0.00	0.00
ATOM	931	CG	PHE	X	61	41.918	51.000	23.275	0.00	0.00
ATOM	932	CD1	PHE	X	61	41.312	50.766	24.599	0.00	0.00
ATOM	933	HD1	PHE	X	61	41.312	51.632	25.244	0.00	0.00
ATOM	934	CE1	PHE	X	61	40.786	49.396	24.901	0.00	0.00
ATOM	935	HE1	PHE	X	61	40.217	49.170	25.791	0.00	0.00
ATOM	936	CZ	PHE	X	61	41.034	48.386	23.976	0.00	0.00
ATOM	937	HZ	PHE	X	61	40.550	47.425	24.076	0.00	0.00
ATOM	938	CE2	PHE	X	61	41.699	48.602	22.824	0.00	0.00
ATOM	939	HE2	PHE	X	61	41.760	47.835	22.066	0.00	0.00
ATOM	940	CD2	PHE	X	61	42.205	49.836	22.512	0.00	0.00
ATOM	941	HD2	PHE	X	61	42.726	49.904	21.568	0.00	0.00
ATOM	942	C	PHE	X	61	42.129	54.543	21.787	0.00	0.00
ATOM	943	O	PHE	X	61	43.069	54.577	20.980	0.00	0.00
ATOM	944	N	GLN	X	62	41.703	55.630	22.436	0.00	0.00
ATOM	945	H	GLN	X	62	40.946	55.454	23.081	0.00	0.00
ATOM	946	CA	GLN	X	62	42.191	56.959	22.129	0.00	0.00
ATOM	947	HA	GLN	X	62	42.478	57.150	21.095	0.00	0.00
ATOM	948	CB	GLN	X	62	41.060	57.953	22.445	0.00	0.00
ATOM	949	HB2	GLN	X	62	40.813	58.007	23.505	0.00	0.00

ATOM	950	HB3	GLN	X	62	41.489	58.929	22.218	0.00	0.00
ATOM	951	CG	GLN	X	62	39.779	57.820	21.630	0.00	0.00
ATOM	952	HG2	GLN	X	62	39.222	56.923	21.899	0.00	0.00
ATOM	953	HG3	GLN	X	62	39.082	58.622	21.872	0.00	0.00
ATOM	954	CD	GLN	X	62	39.980	57.783	20.107	0.00	0.00
ATOM	955	OE1	GLN	X	62	40.349	58.779	19.538	0.00	0.00
ATOM	956	NE2	GLN	X	62	39.931	56.626	19.483	0.00	0.00
ATOM	957	HE21	GLN	X	62	39.857	56.589	18.476	0.00	0.00
ATOM	958	HE22	GLN	X	62	39.668	55.863	20.091	0.00	0.00
ATOM	959	C	GLN	X	62	43.436	57.253	23.017	0.00	0.00
ATOM	960	O	GLN	X	62	44.415	57.698	22.449	0.00	0.00
ATOM	961	N	SER	X	63	43.434	56.866	24.258	0.00	0.00
ATOM	962	H	SER	X	63	42.559	56.494	24.600	0.00	0.00
ATOM	963	CA	SER	X	63	44.465	57.111	25.224	0.00	0.00
ATOM	964	HA	SER	X	63	45.423	56.789	24.815	0.00	0.00
ATOM	965	CB	SER	X	63	44.550	58.671	25.469	0.00	0.00
ATOM	966	HB2	SER	X	63	45.605	58.808	25.707	0.00	0.00
ATOM	967	HB3	SER	X	63	44.482	59.206	24.521	0.00	0.00
ATOM	968	OG	SER	X	63	43.729	59.178	26.449	0.00	0.00
ATOM	969	HG	SER	X	63	43.812	60.134	26.489	0.00	0.00
ATOM	970	C	SER	X	63	44.099	56.370	26.490	0.00	0.00
ATOM	971	O	SER	X	63	42.984	55.856	26.612	0.00	0.00
ATOM	972	N	VAL	X	64	45.057	56.240	27.404	0.00	0.00
ATOM	973	H	VAL	X	64	45.862	56.834	27.268	0.00	0.00
ATOM	974	CA	VAL	X	64	45.126	55.409	28.599	0.00	0.00
ATOM	975	HA	VAL	X	64	44.065	55.233	28.771	0.00	0.00
ATOM	976	CB	VAL	X	64	45.649	53.953	28.349	0.00	0.00
ATOM	977	HB	VAL	X	64	45.562	53.380	29.272	0.00	0.00
ATOM	978	CG1	VAL	X	64	44.903	53.280	27.237	0.00	0.00
ATOM	979	HG11	VAL	X	64	43.861	53.123	27.514	0.00	0.00
ATOM	980	HG12	VAL	X	64	44.930	53.888	26.333	0.00	0.00
ATOM	981	HG13	VAL	X	64	45.461	52.385	26.964	0.00	0.00
ATOM	982	CG2	VAL	X	64	47.146	54.132	27.949	0.00	0.00
ATOM	983	HG21	VAL	X	64	47.599	53.173	27.700	0.00	0.00
ATOM	984	HG22	VAL	X	64	47.685	54.584	28.781	0.00	0.00
ATOM	985	HG23	VAL	X	64	47.311	54.794	27.098	0.00	0.00
ATOM	986	C	VAL	X	64	45.688	56.153	29.836	0.00	0.00
ATOM	987	O	VAL	X	64	46.490	57.052	29.641	0.00	0.00
ATOM	988	N	CYX	X	65	45.323	55.941	31.105	0.00	0.00
ATOM	989	H	CYX	X	65	44.811	55.089	31.285	0.00	0.00
ATOM	990	CA	CYX	X	65	45.558	56.940	32.183	0.00	0.00
ATOM	991	HA	CYX	X	65	45.221	57.903	31.800	0.00	0.00
ATOM	992	CB	CYX	X	65	44.635	56.663	33.388	0.00	0.00
ATOM	993	HB2	CYX	X	65	44.877	55.698	33.835	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.920	57.457	34.078	0.00	0.00
ATOM	995	SG	CYX	X	65	42.846	56.775	33.124	0.00	0.00
ATOM	996	C	CYX	X	65	47.111	57.097	32.548	0.00	0.00
ATOM	997	O	CYX	X	65	47.638	56.150	33.039	0.00	0.00
ATOM	998	N	TYR	X	66	47.692	58.328	32.452	0.00	0.00
ATOM	999	H	TYR	X	66	47.136	59.080	32.069	0.00	0.00
ATOM	1000	CA	TYR	X	66	49.073	58.636	32.827	0.00	0.00
ATOM	1001	HA	TYR	X	66	49.741	58.415	31.995	0.00	0.00
ATOM	1002	CB	TYR	X	66	49.097	60.190	33.084	0.00	0.00
ATOM	1003	HB2	TYR	X	66	48.268	60.655	32.551	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.107	60.525	34.121	0.00	0.00
ATOM	1005	CG	TYR	X	66	50.377	60.683	32.520	0.00	0.00
ATOM	1006	CD1	TYR	X	66	50.504	61.182	31.182	0.00	0.00
ATOM	1007	HD1	TYR	X	66	49.664	61.214	30.504	0.00	0.00
ATOM	1008	CE1	TYR	X	66	51.776	61.533	30.684	0.00	0.00
ATOM	1009	HE1	TYR	X	66	51.920	62.110	29.783	0.00	0.00
ATOM	1010	CZ	TYR	X	66	52.919	61.380	31.541	0.00	0.00
ATOM	1011	OH	TYR	X	66	54.176	61.757	31.153	0.00	0.00
ATOM	1012	HH	TYR	X	66	54.331	62.000	30.237	0.00	0.00
ATOM	1013	CE2	TYR	X	66	52.806	60.813	32.845	0.00	0.00
ATOM	1014	HE2	TYR	X	66	53.667	60.677	33.483	0.00	0.00
ATOM	1015	CD2	TYR	X	66	51.517	60.547	33.406	0.00	0.00
ATOM	1016	HD2	TYR	X	66	51.416	60.145	34.403	0.00	0.00

ATOM	1017	C	TYR	X	66	49.619	57.870	34.103	0.00	0.00
ATOM	1018	O	TYR	X	66	49.023	57.856	35.171	0.00	0.00
ATOM	1019	N	GLN	X	67	50.804	57.201	34.031	0.00	0.00
ATOM	1020	H	GLN	X	67	51.369	56.998	33.219	0.00	0.00
ATOM	1021	CA	GLN	X	67	51.193	56.166	35.033	0.00	0.00
ATOM	1022	HA	GLN	X	67	51.061	56.603	36.023	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.332	54.912	35.064	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.688	54.131	35.736	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.293	55.088	35.341	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.209	54.131	33.742	0.00	0.00
ATOM	1027	HG2	GLN	X	67	49.933	54.837	32.959	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.144	53.635	33.483	0.00	0.00
ATOM	1029	CD	GLN	X	67	49.123	53.014	33.783	0.00	0.00
ATOM	1030	OE1	GLN	X	67	49.478	51.859	33.920	0.00	0.00
ATOM	1031	NE2	GLN	X	67	47.809	53.252	33.580	0.00	0.00
ATOM	1032	HE21	GLN	X	67	47.176	52.476	33.711	0.00	0.00
ATOM	1033	HE22	GLN	X	67	47.385	54.164	33.488	0.00	0.00
ATOM	1034	C	GLN	X	67	52.676	55.870	34.884	0.00	0.00
ATOM	1035	O	GLN	X	67	53.251	55.951	33.787	0.00	0.00
ATOM	1036	N	TYR	X	68	53.309	55.555	36.037	0.00	0.00
ATOM	1037	H	TYR	X	68	52.691	55.578	36.836	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.578	54.856	36.197	0.00	0.00
ATOM	1039	HA	TYR	X	68	55.395	55.458	35.800	0.00	0.00
ATOM	1040	CB	TYR	X	68	54.766	54.326	37.679	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.897	55.152	38.378	0.00	0.00
ATOM	1042	HB3	TYR	X	68	53.876	53.847	38.089	0.00	0.00
ATOM	1043	CG	TYR	X	68	55.931	53.389	37.860	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.254	53.850	37.905	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.538	54.868	37.683	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.349	52.950	38.012	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.358	53.290	37.832	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.150	51.576	38.312	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.153	50.656	38.413	0.00	0.00
ATOM	1050	HH	TYR	X	68	59.969	51.149	38.527	0.00	0.00
ATOM	1051	CE2	TYR	X	68	56.798	51.097	38.268	0.00	0.00
ATOM	1052	HE2	TYR	X	68	56.530	50.060	38.411	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.736	51.990	38.054	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.823	51.451	37.853	0.00	0.00
ATOM	1055	C	TYR	X	68	54.603	53.583	35.303	0.00	0.00
ATOM	1056	O	TYR	X	68	53.692	52.799	35.211	0.00	0.00
ATOM	1057	N	VAL	X	69	55.721	53.400	34.562	0.00	0.00
ATOM	1058	H	VAL	X	69	56.569	53.892	34.804	0.00	0.00
ATOM	1059	CA	VAL	X	69	55.871	52.201	33.720	0.00	0.00
ATOM	1060	HA	VAL	X	69	55.072	51.463	33.796	0.00	0.00
ATOM	1061	CB	VAL	X	69	56.118	52.581	32.217	0.00	0.00
ATOM	1062	HB	VAL	X	69	56.417	51.725	31.611	0.00	0.00
ATOM	1063	CG1	VAL	X	69	54.664	52.968	31.762	0.00	0.00
ATOM	1064	HG11	VAL	X	69	54.342	53.989	31.967	0.00	0.00
ATOM	1065	HG12	VAL	X	69	54.538	52.845	30.686	0.00	0.00
ATOM	1066	HG13	VAL	X	69	53.984	52.304	32.297	0.00	0.00
ATOM	1067	CG2	VAL	X	69	57.124	53.695	31.875	0.00	0.00
ATOM	1068	HG21	VAL	X	69	57.138	53.814	30.792	0.00	0.00
ATOM	1069	HG22	VAL	X	69	58.150	53.401	32.097	0.00	0.00
ATOM	1070	HG23	VAL	X	69	56.879	54.591	32.447	0.00	0.00
ATOM	1071	C	VAL	X	69	57.160	51.462	34.200	0.00	0.00
ATOM	1072	O	VAL	X	69	58.139	52.116	34.377	0.00	0.00
ATOM	1073	N	ASP	X	70	57.146	50.188	34.455	0.00	0.00
ATOM	1074	H	ASP	X	70	56.202	49.835	34.509	0.00	0.00
ATOM	1075	CA	ASP	X	70	58.304	49.295	34.781	0.00	0.00
ATOM	1076	HA	ASP	X	70	59.026	49.884	35.347	0.00	0.00
ATOM	1077	CB	ASP	X	70	57.716	48.205	35.643	0.00	0.00
ATOM	1078	HB2	ASP	X	70	57.253	48.688	36.504	0.00	0.00
ATOM	1079	HB3	ASP	X	70	56.870	47.678	35.202	0.00	0.00
ATOM	1080	CG	ASP	X	70	58.684	47.205	36.250	0.00	0.00
ATOM	1081	OD1	ASP	X	70	59.708	46.945	35.613	0.00	0.00
ATOM	1082	OD2	ASP	X	70	58.324	46.638	37.314	0.00	0.00
ATOM	1083	C	ASP	X	70	58.789	48.733	33.459	0.00	0.00

ATOM	1084	O	ASP	X	70	58.074	48.033	32.728	0.00	0.00
ATOM	1085	N	THR	X	71	60.105	48.925	33.216	0.00	0.00
ATOM	1086	H	THR	X	71	60.526	49.603	33.835	0.00	0.00
ATOM	1087	CA	THR	X	71	60.967	48.416	32.176	0.00	0.00
ATOM	1088	HA	THR	X	71	60.450	47.641	31.610	0.00	0.00
ATOM	1089	CB	THR	X	71	61.256	49.491	31.159	0.00	0.00
ATOM	1090	HB	THR	X	71	61.925	49.130	30.378	0.00	0.00
ATOM	1091	CG2	THR	X	71	59.981	49.979	30.453	0.00	0.00
ATOM	1092	HG21	THR	X	71	60.235	50.687	29.664	0.00	0.00
ATOM	1093	HG22	THR	X	71	59.324	50.573	31.088	0.00	0.00
ATOM	1094	HG23	THR	X	71	59.392	49.145	30.073	0.00	0.00
ATOM	1095	OG1	THR	X	71	61.845	50.721	31.657	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.661	50.776	32.598	0.00	0.00
ATOM	1097	C	THR	X	71	62.197	47.693	32.751	0.00	0.00
ATOM	1098	O	THR	X	71	63.259	47.659	32.061	0.00	0.00
ATOM	1099	N	LEU	X	72	62.063	46.965	33.814	0.00	0.00
ATOM	1100	H	LEU	X	72	61.191	47.022	34.319	0.00	0.00
ATOM	1101	CA	LEU	X	72	63.101	46.209	34.472	0.00	0.00
ATOM	1102	HA	LEU	X	72	63.918	46.909	34.650	0.00	0.00
ATOM	1103	CB	LEU	X	72	62.479	45.689	35.829	0.00	0.00
ATOM	1104	HB2	LEU	X	72	62.059	46.571	36.313	0.00	0.00
ATOM	1105	HB3	LEU	X	72	61.596	45.085	35.621	0.00	0.00
ATOM	1106	CG	LEU	X	72	63.506	44.950	36.721	0.00	0.00
ATOM	1107	HG	LEU	X	72	63.831	43.986	36.330	0.00	0.00
ATOM	1108	CD1	LEU	X	72	64.718	45.793	37.129	0.00	0.00
ATOM	1109	HD11	LEU	X	72	64.429	46.829	37.310	0.00	0.00
ATOM	1110	HD12	LEU	X	72	65.460	45.826	36.332	0.00	0.00
ATOM	1111	HD13	LEU	X	72	65.163	45.373	38.030	0.00	0.00
ATOM	1112	CD2	LEU	X	72	62.660	44.628	37.972	0.00	0.00
ATOM	1113	HD21	LEU	X	72	62.473	45.496	38.604	0.00	0.00
ATOM	1114	HD22	LEU	X	72	61.742	44.050	37.864	0.00	0.00
ATOM	1115	HD23	LEU	X	72	63.248	44.069	38.700	0.00	0.00
ATOM	1116	C	LEU	X	72	63.675	45.083	33.679	0.00	0.00
ATOM	1117	O	LEU	X	72	64.873	44.723	33.833	0.00	0.00
ATOM	1118	N	TYR	X	73	62.853	44.457	32.817	0.00	0.00
ATOM	1119	H	TYR	X	73	61.869	44.635	32.958	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.183	43.317	31.951	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.242	43.093	32.081	0.00	0.00
ATOM	1122	CB	TYR	X	73	62.318	42.107	32.517	0.00	0.00
ATOM	1123	HB2	TYR	X	73	61.298	42.488	32.480	0.00	0.00
ATOM	1124	HB3	TYR	X	73	62.354	41.211	31.897	0.00	0.00
ATOM	1125	CG	TYR	X	73	62.655	41.699	33.917	0.00	0.00
ATOM	1126	CD1	TYR	X	73	64.005	41.494	34.214	0.00	0.00
ATOM	1127	HD1	TYR	X	73	64.760	41.582	33.445	0.00	0.00
ATOM	1128	CE1	TYR	X	73	64.492	41.176	35.479	0.00	0.00
ATOM	1129	HE1	TYR	X	73	65.547	40.983	35.603	0.00	0.00
ATOM	1130	CZ	TYR	X	73	63.606	41.042	36.523	0.00	0.00
ATOM	1131	OH	TYR	X	73	64.069	40.796	37.761	0.00	0.00
ATOM	1132	HH	TYR	X	73	63.423	41.058	38.422	0.00	0.00
ATOM	1133	CE2	TYR	X	73	62.273	41.251	36.278	0.00	0.00
ATOM	1134	HE2	TYR	X	73	61.627	41.055	37.121	0.00	0.00
ATOM	1135	CD2	TYR	X	73	61.739	41.668	34.997	0.00	0.00
ATOM	1136	HD2	TYR	X	73	60.685	41.876	34.885	0.00	0.00
ATOM	1137	C	TYR	X	73	62.894	43.592	30.481	0.00	0.00
ATOM	1138	O	TYR	X	73	61.955	43.090	29.863	0.00	0.00
ATOM	1139	N	PRO	X	74	63.772	44.384	29.869	0.00	0.00
ATOM	1140	CD	PRO	X	74	65.028	45.014	30.320	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.691	44.245	30.715	0.00	0.00
ATOM	1142	HD3	PRO	X	74	64.784	45.800	31.035	0.00	0.00
ATOM	1143	CG	PRO	X	74	65.730	45.486	28.965	0.00	0.00
ATOM	1144	HG2	PRO	X	74	66.229	44.630	28.511	0.00	0.00
ATOM	1145	HG3	PRO	X	74	66.360	46.350	29.175	0.00	0.00
ATOM	1146	CB	PRO	X	74	64.516	45.934	28.165	0.00	0.00
ATOM	1147	HB2	PRO	X	74	64.776	46.084	27.118	0.00	0.00
ATOM	1148	HB3	PRO	X	74	64.247	46.890	28.616	0.00	0.00
ATOM	1149	CA	PRO	X	74	63.584	44.748	28.458	0.00	0.00
ATOM	1150	HA	PRO	X	74	62.608	45.200	28.281	0.00	0.00

ATOM	1151	C	PRO	X	74	63.717	43.597	27.478	0.00	0.00
ATOM	1152	O	PRO	X	74	64.474	42.645	27.711	0.00	0.00
ATOM	1153	N	GLY	X	75	62.795	43.592	26.476	0.00	0.00
ATOM	1154	H	GLY	X	75	62.224	44.406	26.302	0.00	0.00
ATOM	1155	CA	GLY	X	75	62.534	42.689	25.393	0.00	0.00
ATOM	1156	HA2	GLY	X	75	61.863	43.196	24.698	0.00	0.00
ATOM	1157	HA3	GLY	X	75	63.473	42.416	24.912	0.00	0.00
ATOM	1158	C	GLY	X	75	61.710	41.362	25.737	0.00	0.00
ATOM	1159	O	GLY	X	75	61.288	40.668	24.847	0.00	0.00
ATOM	1160	N	PHE	X	76	61.565	41.028	27.060	0.00	0.00
ATOM	1161	H	PHE	X	76	62.014	41.669	27.698	0.00	0.00
ATOM	1162	CA	PHE	X	76	60.887	39.881	27.609	0.00	0.00
ATOM	1163	HA	PHE	X	76	61.290	39.015	27.085	0.00	0.00
ATOM	1164	CB	PHE	X	76	61.286	39.790	29.074	0.00	0.00
ATOM	1165	HB2	PHE	X	76	62.375	39.785	29.030	0.00	0.00
ATOM	1166	HB3	PHE	X	76	60.930	40.748	29.451	0.00	0.00
ATOM	1167	CG	PHE	X	76	60.872	38.551	29.910	0.00	0.00
ATOM	1168	CD1	PHE	X	76	61.212	37.279	29.451	0.00	0.00
ATOM	1169	HD1	PHE	X	76	61.968	37.113	28.698	0.00	0.00
ATOM	1170	CE1	PHE	X	76	60.637	36.122	29.971	0.00	0.00
ATOM	1171	HE1	PHE	X	76	60.715	35.153	29.501	0.00	0.00
ATOM	1172	CZ	PHE	X	76	59.614	36.328	30.955	0.00	0.00
ATOM	1173	HZ	PHE	X	76	59.173	35.462	31.425	0.00	0.00
ATOM	1174	CE2	PHE	X	76	59.296	37.586	31.472	0.00	0.00
ATOM	1175	HE2	PHE	X	76	58.446	37.661	32.134	0.00	0.00
ATOM	1176	CD2	PHE	X	76	59.956	38.704	30.945	0.00	0.00
ATOM	1177	HD2	PHE	X	76	59.639	39.707	31.186	0.00	0.00
ATOM	1178	C	PHE	X	76	59.327	39.903	27.421	0.00	0.00
ATOM	1179	O	PHE	X	76	58.742	40.947	27.642	0.00	0.00
ATOM	1180	N	GLU	X	77	58.679	38.789	27.105	0.00	0.00
ATOM	1181	H	GLU	X	77	59.238	37.960	26.963	0.00	0.00
ATOM	1182	CA	GLU	X	77	57.239	38.807	26.772	0.00	0.00
ATOM	1183	HA	GLU	X	77	57.066	39.734	26.226	0.00	0.00
ATOM	1184	CB	GLU	X	77	56.832	37.633	25.803	0.00	0.00
ATOM	1185	HB2	GLU	X	77	57.084	36.758	26.402	0.00	0.00
ATOM	1186	HB3	GLU	X	77	55.753	37.686	25.660	0.00	0.00
ATOM	1187	CG	GLU	X	77	57.584	37.633	24.544	0.00	0.00
ATOM	1188	HG2	GLU	X	77	58.660	37.485	24.645	0.00	0.00
ATOM	1189	HG3	GLU	X	77	57.315	36.706	24.038	0.00	0.00
ATOM	1190	CD	GLU	X	77	57.283	38.890	23.661	0.00	0.00
ATOM	1191	OE1	GLU	X	77	56.447	39.708	24.038	0.00	0.00
ATOM	1192	OE2	GLU	X	77	57.906	39.046	22.584	0.00	0.00
ATOM	1193	C	GLU	X	77	56.265	38.689	27.903	0.00	0.00
ATOM	1194	O	GLU	X	77	55.103	39.132	27.800	0.00	0.00
ATOM	1195	N	GLY	X	78	56.706	38.152	29.064	0.00	0.00
ATOM	1196	H	GLY	X	78	57.585	37.654	29.028	0.00	0.00
ATOM	1197	CA	GLY	X	78	56.055	38.039	30.351	0.00	0.00
ATOM	1198	HA2	GLY	X	78	55.075	37.606	30.151	0.00	0.00
ATOM	1199	HA3	GLY	X	78	56.576	37.245	30.886	0.00	0.00
ATOM	1200	C	GLY	X	78	55.851	39.389	31.027	0.00	0.00
ATOM	1201	O	GLY	X	78	55.230	39.409	32.075	0.00	0.00
ATOM	1202	N	THR	X	79	56.509	40.474	30.525	0.00	0.00
ATOM	1203	H	THR	X	79	57.141	40.344	29.748	0.00	0.00
ATOM	1204	CA	THR	X	79	56.509	41.921	31.024	0.00	0.00
ATOM	1205	HA	THR	X	79	55.719	41.973	31.774	0.00	0.00
ATOM	1206	CB	THR	X	79	57.874	42.330	31.630	0.00	0.00
ATOM	1207	HB	THR	X	79	57.869	43.391	31.883	0.00	0.00
ATOM	1208	CG2	THR	X	79	58.011	41.559	32.916	0.00	0.00
ATOM	1209	HG21	THR	X	79	58.318	40.514	32.869	0.00	0.00
ATOM	1210	HG22	THR	X	79	57.129	41.569	33.557	0.00	0.00
ATOM	1211	HG23	THR	X	79	58.753	42.027	33.563	0.00	0.00
ATOM	1212	OG1	THR	X	79	59.016	42.053	30.829	0.00	0.00
ATOM	1213	HG1	THR	X	79	59.786	42.491	31.198	0.00	0.00
ATOM	1214	C	THR	X	79	56.185	42.918	29.942	0.00	0.00
ATOM	1215	O	THR	X	79	55.842	44.066	30.242	0.00	0.00
ATOM	1216	N	GLU	X	80	56.246	42.522	28.645	0.00	0.00
ATOM	1217	H	GLU	X	80	56.654	41.620	28.446	0.00	0.00

ATOM	1218	CA	GLU	X	80	55.792	43.444	27.515	0.00	0.00
ATOM	1219	HA	GLU	X	80	56.176	44.448	27.692	0.00	0.00
ATOM	1220	CB	GLU	X	80	56.443	43.078	26.199	0.00	0.00
ATOM	1221	HB2	GLU	X	80	57.531	43.141	26.191	0.00	0.00
ATOM	1222	HB3	GLU	X	80	56.217	42.030	26.000	0.00	0.00
ATOM	1223	CG	GLU	X	80	55.890	43.860	25.003	0.00	0.00
ATOM	1224	HG2	GLU	X	80	54.881	43.534	24.747	0.00	0.00
ATOM	1225	HG3	GLU	X	80	55.684	44.869	25.360	0.00	0.00
ATOM	1226	CD	GLU	X	80	56.892	43.888	23.879	0.00	0.00
ATOM	1227	OE1	GLU	X	80	57.947	44.453	24.127	0.00	0.00
ATOM	1228	OE2	GLU	X	80	56.718	43.342	22.776	0.00	0.00
ATOM	1229	C	GLU	X	80	54.252	43.438	27.406	0.00	0.00
ATOM	1230	O	GLU	X	80	53.637	44.440	27.090	0.00	0.00
ATOM	1231	N	MET	X	81	53.596	42.378	27.900	0.00	0.00
ATOM	1232	H	MET	X	81	54.177	41.682	28.345	0.00	0.00
ATOM	1233	CA	MET	X	81	52.123	42.234	27.972	0.00	0.00
ATOM	1234	HA	MET	X	81	51.769	42.434	26.961	0.00	0.00
ATOM	1235	CB	MET	X	81	51.722	40.752	28.261	0.00	0.00
ATOM	1236	HB2	MET	X	81	50.674	40.676	27.971	0.00	0.00
ATOM	1237	HB3	MET	X	81	52.322	40.125	27.602	0.00	0.00
ATOM	1238	CG	MET	X	81	51.822	40.328	29.735	0.00	0.00
ATOM	1239	HG2	MET	X	81	52.651	40.797	30.266	0.00	0.00
ATOM	1240	HG3	MET	X	81	50.933	40.710	30.237	0.00	0.00
ATOM	1241	SD	MET	X	81	51.989	38.556	30.142	0.00	0.00
ATOM	1242	CE	MET	X	81	50.353	37.976	29.686	0.00	0.00
ATOM	1243	HE1	MET	X	81	49.934	38.351	28.752	0.00	0.00
ATOM	1244	HE2	MET	X	81	50.324	36.892	29.796	0.00	0.00
ATOM	1245	HE3	MET	X	81	49.651	38.395	30.407	0.00	0.00
ATOM	1246	C	MET	X	81	51.394	43.220	28.950	0.00	0.00
ATOM	1247	O	MET	X	81	50.147	43.356	28.962	0.00	0.00
ATOM	1248	N	TRP	X	82	52.294	43.945	29.702	0.00	0.00
ATOM	1249	H	TRP	X	82	53.225	43.556	29.661	0.00	0.00
ATOM	1250	CA	TRP	X	82	51.957	44.887	30.749	0.00	0.00
ATOM	1251	HA	TRP	X	82	50.870	44.929	30.823	0.00	0.00
ATOM	1252	CB	TRP	X	82	52.498	44.389	32.083	0.00	0.00
ATOM	1253	HB2	TRP	X	82	53.582	44.502	32.085	0.00	0.00
ATOM	1254	HB3	TRP	X	82	52.109	45.141	32.770	0.00	0.00
ATOM	1255	CG	TRP	X	82	52.102	43.015	32.458	0.00	0.00
ATOM	1256	CD1	TRP	X	82	53.063	42.181	32.877	0.00	0.00
ATOM	1257	HD1	TRP	X	82	54.131	42.340	32.867	0.00	0.00
ATOM	1258	NE1	TRP	X	82	52.420	41.045	33.236	0.00	0.00
ATOM	1259	HE1	TRP	X	82	52.960	40.195	33.310	0.00	0.00
ATOM	1260	CE2	TRP	X	82	51.089	40.973	32.872	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	50.166	39.933	32.906	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	50.428	38.964	33.305	0.00	0.00
ATOM	1263	CH2	TRP	X	82	48.924	40.236	32.429	0.00	0.00
ATOM	1264	HH2	TRP	X	82	48.199	39.437	32.381	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	48.541	41.555	32.066	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	47.553	41.750	31.676	0.00	0.00
ATOM	1267	CE3	TRP	X	82	49.518	42.549	32.052	0.00	0.00
ATOM	1268	HE3	TRP	X	82	49.260	43.529	31.678	0.00	0.00
ATOM	1269	CD2	TRP	X	82	50.824	42.270	32.414	0.00	0.00
ATOM	1270	C	TRP	X	82	52.449	46.282	30.514	0.00	0.00
ATOM	1271	O	TRP	X	82	52.126	47.256	31.264	0.00	0.00
ATOM	1272	N	ASN	X	83	53.224	46.499	29.433	0.00	0.00
ATOM	1273	H	ASN	X	83	53.311	45.758	28.752	0.00	0.00
ATOM	1274	CA	ASN	X	83	53.603	47.805	28.953	0.00	0.00
ATOM	1275	HA	ASN	X	83	53.982	48.334	29.827	0.00	0.00
ATOM	1276	CB	ASN	X	83	54.860	47.599	28.046	0.00	0.00
ATOM	1277	HB2	ASN	X	83	55.703	47.190	28.603	0.00	0.00
ATOM	1278	HB3	ASN	X	83	54.598	46.874	27.276	0.00	0.00
ATOM	1279	CG	ASN	X	83	55.404	48.876	27.306	0.00	0.00
ATOM	1280	OD1	ASN	X	83	55.502	48.867	26.097	0.00	0.00
ATOM	1281	ND2	ASN	X	83	55.744	49.914	28.032	0.00	0.00
ATOM	1282	HD21	ASN	X	83	56.224	50.691	27.601	0.00	0.00
ATOM	1283	HD22	ASN	X	83	55.734	49.720	29.023	0.00	0.00
ATOM	1284	C	ASN	X	83	52.514	48.636	28.207	0.00	0.00

ATOM	1285	O	ASN	X	83	52.138	48.144	27.160	0.00	0.00
ATOM	1286	N	PRO	X	84	52.011	49.762	28.705	0.00	0.00
ATOM	1287	CD	PRO	X	84	52.501	50.412	29.881	0.00	0.00
ATOM	1288	HD2	PRO	X	84	53.477	50.848	29.667	0.00	0.00
ATOM	1289	HD3	PRO	X	84	52.455	49.676	30.683	0.00	0.00
ATOM	1290	CG	PRO	X	84	51.417	51.442	30.314	0.00	0.00
ATOM	1291	HG2	PRO	X	84	51.736	52.258	30.964	0.00	0.00
ATOM	1292	HG3	PRO	X	84	50.640	50.978	30.923	0.00	0.00
ATOM	1293	CB	PRO	X	84	50.775	51.828	28.937	0.00	0.00
ATOM	1294	HB2	PRO	X	84	51.484	52.443	28.383	0.00	0.00
ATOM	1295	HB3	PRO	X	84	49.757	52.210	29.004	0.00	0.00
ATOM	1296	CA	PRO	X	84	50.849	50.398	28.165	0.00	0.00
ATOM	1297	HA	PRO	X	84	49.966	49.786	28.350	0.00	0.00
ATOM	1298	C	PRO	X	84	50.948	50.628	26.642	0.00	0.00
ATOM	1299	O	PRO	X	84	51.674	51.451	26.117	0.00	0.00
ATOM	1300	N	ASN	X	85	50.203	49.857	25.864	0.00	0.00
ATOM	1301	H	ASN	X	85	49.656	49.159	26.348	0.00	0.00
ATOM	1302	CA	ASN	X	85	50.235	49.834	24.396	0.00	0.00
ATOM	1303	HA	ASN	X	85	51.257	49.994	24.052	0.00	0.00
ATOM	1304	CB	ASN	X	85	49.870	48.440	23.773	0.00	0.00
ATOM	1305	HB2	ASN	X	85	49.887	48.478	22.683	0.00	0.00
ATOM	1306	HB3	ASN	X	85	50.620	47.722	24.104	0.00	0.00
ATOM	1307	CG	ASN	X	85	48.427	47.982	24.077	0.00	0.00
ATOM	1308	OD1	ASN	X	85	47.640	48.767	24.656	0.00	0.00
ATOM	1309	ND2	ASN	X	85	48.051	46.786	23.764	0.00	0.00
ATOM	1310	HD21	ASN	X	85	47.080	46.533	23.877	0.00	0.00
ATOM	1311	HD22	ASN	X	85	48.687	46.250	23.190	0.00	0.00
ATOM	1312	C	ASN	X	85	49.527	50.970	23.741	0.00	0.00
ATOM	1313	O	ASN	X	85	49.187	50.865	22.528	0.00	0.00
ATOM	1314	N	ARG	X	86	49.305	52.051	24.450	0.00	0.00
ATOM	1315	H	ARG	X	86	49.416	51.990	25.452	0.00	0.00
ATOM	1316	CA	ARG	X	86	48.623	53.238	23.919	0.00	0.00
ATOM	1317	HA	ARG	X	86	48.752	53.284	22.837	0.00	0.00
ATOM	1318	CB	ARG	X	86	47.230	53.133	24.344	0.00	0.00
ATOM	1319	HB2	ARG	X	86	47.276	52.752	25.365	0.00	0.00
ATOM	1320	HB3	ARG	X	86	46.773	54.121	24.284	0.00	0.00
ATOM	1321	CG	ARG	X	86	46.372	52.147	23.530	0.00	0.00
ATOM	1322	HG2	ARG	X	86	46.672	51.102	23.616	0.00	0.00
ATOM	1323	HG3	ARG	X	86	45.368	52.104	23.954	0.00	0.00
ATOM	1324	CD	ARG	X	86	46.147	52.560	22.124	0.00	0.00
ATOM	1325	HD2	ARG	X	86	45.299	53.236	22.015	0.00	0.00
ATOM	1326	HD3	ARG	X	86	47.050	52.993	21.695	0.00	0.00
ATOM	1327	NE	ARG	X	86	45.746	51.439	21.293	0.00	0.00
ATOM	1328	HE	ARG	X	86	45.922	50.524	21.683	0.00	0.00
ATOM	1329	CZ	ARG	X	86	45.182	51.431	20.099	0.00	0.00
ATOM	1330	NH1	ARG	X	86	44.754	52.552	19.525	0.00	0.00
ATOM	1331	HH11	ARG	X	86	44.876	53.431	20.008	0.00	0.00
ATOM	1332	HH12	ARG	X	86	44.183	52.622	18.694	0.00	0.00
ATOM	1333	NH2	ARG	X	86	45.052	50.276	19.403	0.00	0.00
ATOM	1334	HH21	ARG	X	86	45.436	49.497	19.920	0.00	0.00
ATOM	1335	HH22	ARG	X	86	44.395	50.162	18.645	0.00	0.00
ATOM	1336	C	ARG	X	86	49.194	54.554	24.528	0.00	0.00
ATOM	1337	O	ARG	X	86	49.942	54.551	25.526	0.00	0.00
ATOM	1338	N	GLU	X	87	48.960	55.713	23.878	0.00	0.00
ATOM	1339	H	GLU	X	87	48.771	55.591	22.893	0.00	0.00
ATOM	1340	CA	GLU	X	87	49.233	57.019	24.433	0.00	0.00
ATOM	1341	HA	GLU	X	87	50.317	57.131	24.435	0.00	0.00
ATOM	1342	CB	GLU	X	87	48.652	58.168	23.569	0.00	0.00
ATOM	1343	HB2	GLU	X	87	48.972	57.930	22.554	0.00	0.00
ATOM	1344	HB3	GLU	X	87	47.564	58.113	23.534	0.00	0.00
ATOM	1345	CG	GLU	X	87	49.239	59.507	23.933	0.00	0.00
ATOM	1346	HG2	GLU	X	87	49.194	59.631	25.015	0.00	0.00
ATOM	1347	HG3	GLU	X	87	50.290	59.397	23.667	0.00	0.00
ATOM	1348	CD	GLU	X	87	48.631	60.740	23.294	0.00	0.00
ATOM	1349	OE1	GLU	X	87	48.128	60.702	22.175	0.00	0.00
ATOM	1350	OE2	GLU	X	87	48.749	61.792	23.991	0.00	0.00
ATOM	1351	C	GLU	X	87	48.744	57.279	25.870	0.00	0.00

ATOM	1352	O	GLU	X	87	47.550	57.149	26.159	0.00	0.00
ATOM	1353	N	LEU	X	88	49.718	57.576	26.729	0.00	0.00
ATOM	1354	H	LEU	X	88	50.685	57.575	26.435	0.00	0.00
ATOM	1355	CA	LEU	X	88	49.508	57.955	28.125	0.00	0.00
ATOM	1356	HA	LEU	X	88	48.750	57.350	28.623	0.00	0.00
ATOM	1357	CB	LEU	X	88	50.925	57.716	28.772	0.00	0.00
ATOM	1358	HB2	LEU	X	88	51.685	57.999	28.043	0.00	0.00
ATOM	1359	HB3	LEU	X	88	50.985	58.412	29.608	0.00	0.00
ATOM	1360	CG	LEU	X	88	51.301	56.286	29.195	0.00	0.00
ATOM	1361	HG	LEU	X	88	51.060	55.581	28.400	0.00	0.00
ATOM	1362	CD1	LEU	X	88	52.836	56.244	29.341	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.011	55.216	29.661	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.251	56.965	30.045	0.00	0.00
ATOM	1365	HD13	LEU	X	88	53.294	56.264	28.352	0.00	0.00
ATOM	1366	CD2	LEU	X	88	50.432	55.884	30.395	0.00	0.00
ATOM	1367	HD21	LEU	X	88	49.385	55.799	30.104	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.671	54.851	30.650	0.00	0.00
ATOM	1369	HD23	LEU	X	88	50.659	56.597	31.187	0.00	0.00
ATOM	1370	C	LEU	X	88	49.087	59.453	28.249	0.00	0.00
ATOM	1371	O	LEU	X	88	49.681	60.323	27.660	0.00	0.00
ATOM	1372	N	SER	X	89	47.991	59.701	28.957	0.00	0.00
ATOM	1373	H	SER	X	89	47.459	58.930	29.337	0.00	0.00
ATOM	1374	CA	SER	X	89	47.395	61.074	28.963	0.00	0.00
ATOM	1375	HA	SER	X	89	48.172	61.835	29.030	0.00	0.00
ATOM	1376	CB	SER	X	89	46.624	61.259	27.703	0.00	0.00
ATOM	1377	HB2	SER	X	89	47.214	61.204	26.788	0.00	0.00
ATOM	1378	HB3	SER	X	89	45.982	60.380	27.645	0.00	0.00
ATOM	1379	OG	SER	X	89	45.677	62.391	27.753	0.00	0.00
ATOM	1380	HG	SER	X	89	44.946	62.220	27.154	0.00	0.00
ATOM	1381	C	SER	X	89	46.518	61.221	30.229	0.00	0.00
ATOM	1382	O	SER	X	89	46.301	60.262	30.903	0.00	0.00
ATOM	1383	N	GLU	X	90	45.961	62.477	30.507	0.00	0.00
ATOM	1384	H	GLU	X	90	46.105	63.234	29.854	0.00	0.00
ATOM	1385	CA	GLU	X	90	44.881	62.652	31.441	0.00	0.00
ATOM	1386	HA	GLU	X	90	44.864	61.911	32.240	0.00	0.00
ATOM	1387	CB	GLU	X	90	45.196	64.003	32.226	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.356	64.811	31.513	0.00	0.00
ATOM	1389	HB3	GLU	X	90	44.487	64.185	33.034	0.00	0.00
ATOM	1390	CG	GLU	X	90	46.509	63.771	32.988	0.00	0.00
ATOM	1391	HG2	GLU	X	90	46.201	63.088	33.780	0.00	0.00
ATOM	1392	HG3	GLU	X	90	47.338	63.333	32.433	0.00	0.00
ATOM	1393	CD	GLU	X	90	46.917	65.051	33.639	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.190	65.682	34.440	0.00	0.00
ATOM	1395	OE2	GLU	X	90	48.036	65.520	33.285	0.00	0.00
ATOM	1396	C	GLU	X	90	43.448	62.787	30.884	0.00	0.00
ATOM	1397	O	GLU	X	90	42.462	62.728	31.606	0.00	0.00
ATOM	1398	N	ASP	X	91	43.275	62.731	29.546	0.00	0.00
ATOM	1399	H	ASP	X	91	44.077	62.706	28.932	0.00	0.00
ATOM	1400	CA	ASP	X	91	41.905	62.645	28.961	0.00	0.00
ATOM	1401	HA	ASP	X	91	41.246	63.272	29.561	0.00	0.00
ATOM	1402	CB	ASP	X	91	42.034	63.316	27.546	0.00	0.00
ATOM	1403	HB2	ASP	X	91	41.058	63.770	27.373	0.00	0.00
ATOM	1404	HB3	ASP	X	91	42.774	64.115	27.524	0.00	0.00
ATOM	1405	CG	ASP	X	91	42.293	62.437	26.364	0.00	0.00
ATOM	1406	OD1	ASP	X	91	43.461	61.888	26.386	0.00	0.00
ATOM	1407	OD2	ASP	X	91	41.590	62.366	25.303	0.00	0.00
ATOM	1408	C	ASP	X	91	41.292	61.258	28.932	0.00	0.00
ATOM	1409	O	ASP	X	91	40.636	60.858	27.992	0.00	0.00
ATOM	1410	N	CYX	X	92	41.655	60.486	29.885	0.00	0.00
ATOM	1411	H	CYX	X	92	42.081	60.942	30.680	0.00	0.00
ATOM	1412	CA	CYX	X	92	41.843	58.977	29.757	0.00	0.00
ATOM	1413	HA	CYX	X	92	42.232	58.926	28.740	0.00	0.00
ATOM	1414	CB	CYX	X	92	43.026	58.596	30.674	0.00	0.00
ATOM	1415	HB2	CYX	X	92	43.252	57.575	30.366	0.00	0.00
ATOM	1416	HB3	CYX	X	92	43.792	59.333	30.432	0.00	0.00
ATOM	1417	SG	CYX	X	92	42.636	58.687	32.445	0.00	0.00
ATOM	1418	C	CYX	X	92	40.631	57.998	29.959	0.00	0.00

ATOM	1419	O	CYX	X	92	40.791	56.785	29.894	0.00	0.00
ATOM	1420	N	LEU	X	93	39.470	58.542	30.304	0.00	0.00
ATOM	1421	H	LEU	X	93	39.351	59.544	30.329	0.00	0.00
ATOM	1422	CA	LEU	X	93	38.257	57.731	30.659	0.00	0.00
ATOM	1423	HA	LEU	X	93	38.434	56.731	31.053	0.00	0.00
ATOM	1424	CB	LEU	X	93	37.368	58.470	31.663	0.00	0.00
ATOM	1425	HB2	LEU	X	93	37.208	59.493	31.321	0.00	0.00
ATOM	1426	HB3	LEU	X	93	36.399	57.972	31.659	0.00	0.00
ATOM	1427	CG	LEU	X	93	37.815	58.461	33.134	0.00	0.00
ATOM	1428	HG	LEU	X	93	38.776	58.972	33.182	0.00	0.00
ATOM	1429	CD1	LEU	X	93	36.770	59.188	34.054	0.00	0.00
ATOM	1430	HD11	LEU	X	93	35.898	58.549	34.191	0.00	0.00
ATOM	1431	HD12	LEU	X	93	36.425	60.116	33.600	0.00	0.00
ATOM	1432	HD13	LEU	X	93	37.280	59.389	34.996	0.00	0.00
ATOM	1433	CD2	LEU	X	93	38.118	57.060	33.701	0.00	0.00
ATOM	1434	HD21	LEU	X	93	38.418	57.135	34.746	0.00	0.00
ATOM	1435	HD22	LEU	X	93	37.243	56.410	33.678	0.00	0.00
ATOM	1436	HD23	LEU	X	93	38.911	56.686	33.053	0.00	0.00
ATOM	1437	C	LEU	X	93	37.568	57.301	29.358	0.00	0.00
ATOM	1438	O	LEU	X	93	37.235	58.156	28.611	0.00	0.00
ATOM	1439	N	TYR	X	94	37.386	56.009	29.112	0.00	0.00
ATOM	1440	H	TYR	X	94	37.662	55.324	29.801	0.00	0.00
ATOM	1441	CA	TYR	X	94	36.742	55.483	27.962	0.00	0.00
ATOM	1442	HA	TYR	X	94	35.969	56.137	27.559	0.00	0.00
ATOM	1443	CB	TYR	X	94	37.829	55.314	26.862	0.00	0.00
ATOM	1444	HB2	TYR	X	94	38.687	54.820	27.318	0.00	0.00
ATOM	1445	HB3	TYR	X	94	37.471	54.728	26.015	0.00	0.00
ATOM	1446	CG	TYR	X	94	38.339	56.595	26.349	0.00	0.00
ATOM	1447	CD1	TYR	X	94	37.458	57.391	25.552	0.00	0.00
ATOM	1448	HD1	TYR	X	94	36.425	57.135	25.369	0.00	0.00
ATOM	1449	CE1	TYR	X	94	37.883	58.646	25.063	0.00	0.00
ATOM	1450	HE1	TYR	X	94	37.236	59.421	24.679	0.00	0.00
ATOM	1451	CZ	TYR	X	94	39.217	59.118	25.426	0.00	0.00
ATOM	1452	OH	TYR	X	94	39.630	60.397	25.052	0.00	0.00
ATOM	1453	HH	TYR	X	94	40.400	60.702	25.539	0.00	0.00
ATOM	1454	CE2	TYR	X	94	40.102	58.310	26.145	0.00	0.00
ATOM	1455	HE2	TYR	X	94	41.089	58.637	26.436	0.00	0.00
ATOM	1456	CD2	TYR	X	94	39.619	57.058	26.558	0.00	0.00
ATOM	1457	HD2	TYR	X	94	40.197	56.362	27.147	0.00	0.00
ATOM	1458	C	TYR	X	94	36.095	54.121	28.341	0.00	0.00
ATOM	1459	O	TYR	X	94	36.668	53.416	29.235	0.00	0.00
ATOM	1460	N	LEU	X	95	34.973	53.840	27.693	0.00	0.00
ATOM	1461	H	LEU	X	95	34.594	54.590	27.134	0.00	0.00
ATOM	1462	CA	LEU	X	95	34.235	52.619	27.522	0.00	0.00
ATOM	1463	HA	LEU	X	95	34.512	51.916	28.308	0.00	0.00
ATOM	1464	CB	LEU	X	95	32.734	52.714	27.517	0.00	0.00
ATOM	1465	HB2	LEU	X	95	32.420	53.674	27.108	0.00	0.00
ATOM	1466	HB3	LEU	X	95	32.191	51.961	26.946	0.00	0.00
ATOM	1467	CG	LEU	X	95	32.142	52.833	28.913	0.00	0.00
ATOM	1468	HG	LEU	X	95	32.611	53.719	29.341	0.00	0.00
ATOM	1469	CD1	LEU	X	95	30.625	53.069	28.864	0.00	0.00
ATOM	1470	HD11	LEU	X	95	30.246	53.656	29.701	0.00	0.00
ATOM	1471	HD12	LEU	X	95	30.107	52.110	28.844	0.00	0.00
ATOM	1472	HD13	LEU	X	95	30.407	53.624	27.951	0.00	0.00
ATOM	1473	CD2	LEU	X	95	32.462	51.521	29.762	0.00	0.00
ATOM	1474	HD21	LEU	X	95	33.536	51.518	29.948	0.00	0.00
ATOM	1475	HD22	LEU	X	95	31.863	51.566	30.672	0.00	0.00
ATOM	1476	HD23	LEU	X	95	32.262	50.621	29.181	0.00	0.00
ATOM	1477	C	LEU	X	95	34.542	51.864	26.308	0.00	0.00
ATOM	1478	O	LEU	X	95	35.178	52.484	25.445	0.00	0.00
ATOM	1479	N	ASN	X	96	34.363	50.567	26.260	0.00	0.00
ATOM	1480	H	ASN	X	96	34.011	50.157	27.113	0.00	0.00
ATOM	1481	CA	ASN	X	96	34.635	49.651	25.162	0.00	0.00
ATOM	1482	HA	ASN	X	96	34.297	50.231	24.302	0.00	0.00
ATOM	1483	CB	ASN	X	96	36.132	49.235	25.168	0.00	0.00
ATOM	1484	HB2	ASN	X	96	36.439	48.501	25.913	0.00	0.00
ATOM	1485	HB3	ASN	X	96	36.398	48.743	24.232	0.00	0.00

ATOM	1486	CG	ASN	X	96	37.191	50.324	25.226	0.00	0.00
ATOM	1487	OD1	ASN	X	96	37.677	50.731	24.199	0.00	0.00
ATOM	1488	ND2	ASN	X	96	37.664	50.630	26.454	0.00	0.00
ATOM	1489	HD21	ASN	X	96	38.561	51.090	26.525	0.00	0.00
ATOM	1490	HD22	ASN	X	96	37.229	50.337	27.317	0.00	0.00
ATOM	1491	C	ASN	X	96	33.677	48.416	25.251	0.00	0.00
ATOM	1492	O	ASN	X	96	33.372	47.902	26.313	0.00	0.00
ATOM	1493	N	VAL	X	97	33.218	47.880	24.125	0.00	0.00
ATOM	1494	H	VAL	X	97	33.529	48.289	23.255	0.00	0.00
ATOM	1495	CA	VAL	X	97	32.210	46.842	23.926	0.00	0.00
ATOM	1496	HA	VAL	X	97	32.403	46.237	24.813	0.00	0.00
ATOM	1497	CB	VAL	X	97	30.768	47.390	23.834	0.00	0.00
ATOM	1498	HB	VAL	X	97	30.695	47.967	22.912	0.00	0.00
ATOM	1499	CG1	VAL	X	97	29.750	46.258	23.760	0.00	0.00
ATOM	1500	HG11	VAL	X	97	29.837	45.830	22.761	0.00	0.00
ATOM	1501	HG12	VAL	X	97	29.928	45.486	24.509	0.00	0.00
ATOM	1502	HG13	VAL	X	97	28.764	46.694	23.916	0.00	0.00
ATOM	1503	CG2	VAL	X	97	30.353	48.245	24.991	0.00	0.00
ATOM	1504	HG21	VAL	X	97	31.050	49.082	25.021	0.00	0.00
ATOM	1505	HG22	VAL	X	97	30.511	47.724	25.935	0.00	0.00
ATOM	1506	HG23	VAL	X	97	29.369	48.712	24.937	0.00	0.00
ATOM	1507	C	VAL	X	97	32.458	45.942	22.740	0.00	0.00
ATOM	1508	O	VAL	X	97	32.545	46.528	21.671	0.00	0.00
ATOM	1509	N	TRP	X	98	32.583	44.635	22.960	0.00	0.00
ATOM	1510	H	TRP	X	98	32.588	44.319	23.919	0.00	0.00
ATOM	1511	CA	TRP	X	98	32.675	43.609	21.933	0.00	0.00
ATOM	1512	HA	TRP	X	98	32.864	44.041	20.951	0.00	0.00
ATOM	1513	CB	TRP	X	98	33.799	42.635	22.152	0.00	0.00
ATOM	1514	HB2	TRP	X	98	33.839	42.144	23.125	0.00	0.00
ATOM	1515	HB3	TRP	X	98	33.733	41.871	21.378	0.00	0.00
ATOM	1516	CG	TRP	X	98	35.241	43.108	22.029	0.00	0.00
ATOM	1517	CD1	TRP	X	98	36.116	42.601	21.163	0.00	0.00
ATOM	1518	HD1	TRP	X	98	35.840	41.988	20.317	0.00	0.00
ATOM	1519	NE1	TRP	X	98	37.308	43.275	21.268	0.00	0.00
ATOM	1520	HE1	TRP	X	98	38.157	42.947	20.830	0.00	0.00
ATOM	1521	CE2	TRP	X	98	37.367	44.012	22.452	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	38.383	44.764	23.011	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	39.402	44.857	22.667	0.00	0.00
ATOM	1524	CH2	TRP	X	98	37.965	45.476	24.140	0.00	0.00
ATOM	1525	HH2	TRP	X	98	38.736	46.085	24.587	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	36.605	45.522	24.609	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	36.361	45.999	25.546	0.00	0.00
ATOM	1528	CE3	TRP	X	98	35.657	44.798	23.925	0.00	0.00
ATOM	1529	HE3	TRP	X	98	34.655	44.807	24.328	0.00	0.00
ATOM	1530	CD2	TRP	X	98	36.013	43.976	22.840	0.00	0.00
ATOM	1531	C	TRP	X	98	31.310	42.844	22.060	0.00	0.00
ATOM	1532	O	TRP	X	98	31.153	42.054	23.001	0.00	0.00
ATOM	1533	N	THR	X	99	30.552	42.874	20.953	0.00	0.00
ATOM	1534	H	THR	X	99	30.857	43.528	20.246	0.00	0.00
ATOM	1535	CA	THR	X	99	29.309	42.110	20.791	0.00	0.00
ATOM	1536	HA	THR	X	99	29.175	41.358	21.568	0.00	0.00
ATOM	1537	CB	THR	X	99	28.178	43.160	20.851	0.00	0.00
ATOM	1538	HB	THR	X	99	28.162	43.651	21.823	0.00	0.00
ATOM	1539	CG2	THR	X	99	28.346	44.245	19.768	0.00	0.00
ATOM	1540	HG21	THR	X	99	28.417	43.800	18.776	0.00	0.00
ATOM	1541	HG22	THR	X	99	29.303	44.746	19.920	0.00	0.00
ATOM	1542	HG23	THR	X	99	27.472	44.888	19.870	0.00	0.00
ATOM	1543	OG1	THR	X	99	26.939	42.529	20.624	0.00	0.00
ATOM	1544	HG1	THR	X	99	26.199	43.129	20.737	0.00	0.00
ATOM	1545	C	THR	X	99	29.297	41.315	19.408	0.00	0.00
ATOM	1546	O	THR	X	99	30.105	41.658	18.551	0.00	0.00
ATOM	1547	N	PRO	X	100	28.507	40.289	19.188	0.00	0.00
ATOM	1548	CD	PRO	X	100	27.809	39.523	20.277	0.00	0.00
ATOM	1549	HD2	PRO	X	100	26.813	39.962	20.318	0.00	0.00
ATOM	1550	HD3	PRO	X	100	28.187	39.632	21.293	0.00	0.00
ATOM	1551	CG	PRO	X	100	27.761	38.050	19.851	0.00	0.00
ATOM	1552	HG2	PRO	X	100	27.047	37.571	20.521	0.00	0.00

ATOM	1553	HG3	PRO	X	100	28.769	37.657	19.986	0.00	0.00
ATOM	1554	CB	PRO	X	100	27.458	38.324	18.359	0.00	0.00
ATOM	1555	HB2	PRO	X	100	26.404	38.602	18.342	0.00	0.00
ATOM	1556	HB3	PRO	X	100	27.734	37.431	17.799	0.00	0.00
ATOM	1557	CA	PRO	X	100	28.370	39.493	17.966	0.00	0.00
ATOM	1558	HA	PRO	X	100	29.333	39.074	17.674	0.00	0.00
ATOM	1559	C	PRO	X	100	27.797	40.218	16.725	0.00	0.00
ATOM	1560	O	PRO	X	100	27.319	41.353	16.812	0.00	0.00
ATOM	1561	N	TYR	X	101	27.821	39.488	15.546	0.00	0.00
ATOM	1562	H	TYR	X	101	28.370	38.643	15.479	0.00	0.00
ATOM	1563	CA	TYR	X	101	27.573	40.249	14.306	0.00	0.00
ATOM	1564	HA	TYR	X	101	27.039	41.181	14.490	0.00	0.00
ATOM	1565	CB	TYR	X	101	28.997	40.626	13.837	0.00	0.00
ATOM	1566	HB2	TYR	X	101	29.522	41.202	14.600	0.00	0.00
ATOM	1567	HB3	TYR	X	101	29.496	39.697	13.562	0.00	0.00
ATOM	1568	CG	TYR	X	101	29.008	41.671	12.718	0.00	0.00
ATOM	1569	CD1	TYR	X	101	29.425	41.238	11.405	0.00	0.00
ATOM	1570	HD1	TYR	X	101	29.663	40.204	11.203	0.00	0.00
ATOM	1571	CE1	TYR	X	101	29.348	42.156	10.377	0.00	0.00
ATOM	1572	HE1	TYR	X	101	29.603	41.879	9.365	0.00	0.00
ATOM	1573	CZ	TYR	X	101	28.999	43.496	10.655	0.00	0.00
ATOM	1574	OH	TYR	X	101	29.212	44.407	9.657	0.00	0.00
ATOM	1575	HH	TYR	X	101	29.485	44.045	8.811	0.00	0.00
ATOM	1576	CE2	TYR	X	101	28.620	43.946	11.934	0.00	0.00
ATOM	1577	HE2	TYR	X	101	28.234	44.940	12.108	0.00	0.00
ATOM	1578	CD2	TYR	X	101	28.595	43.032	13.011	0.00	0.00
ATOM	1579	HD2	TYR	X	101	28.399	43.381	14.014	0.00	0.00
ATOM	1580	C	TYR	X	101	26.833	39.458	13.210	0.00	0.00
ATOM	1581	O	TYR	X	101	27.193	38.330	12.907	0.00	0.00
ATOM	1582	N	PRO	X	102	25.808	40.063	12.557	0.00	0.00
ATOM	1583	CD	PRO	X	102	25.335	39.816	11.148	0.00	0.00
ATOM	1584	HD2	PRO	X	102	24.728	38.911	11.116	0.00	0.00
ATOM	1585	HD3	PRO	X	102	26.126	39.690	10.410	0.00	0.00
ATOM	1586	CG	PRO	X	102	24.352	40.948	10.838	0.00	0.00
ATOM	1587	HG2	PRO	X	102	23.526	40.594	10.220	0.00	0.00
ATOM	1588	HG3	PRO	X	102	24.963	41.759	10.442	0.00	0.00
ATOM	1589	CB	PRO	X	102	23.795	41.303	12.229	0.00	0.00
ATOM	1590	HB2	PRO	X	102	22.984	40.614	12.468	0.00	0.00
ATOM	1591	HB3	PRO	X	102	23.372	42.305	12.307	0.00	0.00
ATOM	1592	CA	PRO	X	102	24.963	41.174	13.118	0.00	0.00
ATOM	1593	HA	PRO	X	102	25.483	42.132	13.074	0.00	0.00
ATOM	1594	C	PRO	X	102	24.467	40.991	14.619	0.00	0.00
ATOM	1595	O	PRO	X	102	24.818	39.961	15.201	0.00	0.00
ATOM	1596	N	ARG	X	103	23.708	41.947	15.212	0.00	0.00
ATOM	1597	H	ARG	X	103	23.470	42.794	14.717	0.00	0.00
ATOM	1598	CA	ARG	X	103	23.221	41.926	16.565	0.00	0.00
ATOM	1599	HA	ARG	X	103	24.105	41.995	17.199	0.00	0.00
ATOM	1600	CB	ARG	X	103	22.358	43.166	16.771	0.00	0.00
ATOM	1601	HB2	ARG	X	103	22.881	44.100	16.564	0.00	0.00
ATOM	1602	HB3	ARG	X	103	21.413	43.183	16.228	0.00	0.00
ATOM	1603	CG	ARG	X	103	22.036	43.198	18.304	0.00	0.00
ATOM	1604	HG2	ARG	X	103	21.417	42.363	18.635	0.00	0.00
ATOM	1605	HG3	ARG	X	103	22.973	43.198	18.862	0.00	0.00
ATOM	1606	CD	ARG	X	103	21.411	44.540	18.680	0.00	0.00
ATOM	1607	HD2	ARG	X	103	21.237	44.552	19.756	0.00	0.00
ATOM	1608	HD3	ARG	X	103	22.037	45.354	18.315	0.00	0.00
ATOM	1609	NE	ARG	X	103	20.061	44.645	18.004	0.00	0.00
ATOM	1610	HE	ARG	X	103	19.254	44.369	18.544	0.00	0.00
ATOM	1611	CZ	ARG	X	103	19.743	45.303	16.908	0.00	0.00
ATOM	1612	NH1	ARG	X	103	20.594	45.979	16.217	0.00	0.00
ATOM	1613	HH11	ARG	X	103	21.570	45.943	16.475	0.00	0.00
ATOM	1614	HH12	ARG	X	103	20.323	46.578	15.450	0.00	0.00
ATOM	1615	NH2	ARG	X	103	18.540	45.406	16.559	0.00	0.00
ATOM	1616	HH21	ARG	X	103	17.841	45.249	17.270	0.00	0.00
ATOM	1617	HH22	ARG	X	103	18.309	46.045	15.813	0.00	0.00
ATOM	1618	C	ARG	X	103	22.377	40.592	16.750	0.00	0.00
ATOM	1619	O	ARG	X	103	21.588	40.303	15.847	0.00	0.00

ATOM	1620	N	PRO	X	104	22.630	39.818	17.850	0.00	0.00
ATOM	1621	CD	PRO	X	104	23.706	40.052	18.794	0.00	0.00
ATOM	1622	HD2	PRO	X	104	23.409	40.995	19.252	0.00	0.00
ATOM	1623	HD3	PRO	X	104	24.725	40.161	18.423	0.00	0.00
ATOM	1624	CG	PRO	X	104	23.716	38.928	19.822	0.00	0.00
ATOM	1625	HG2	PRO	X	104	23.989	39.122	20.859	0.00	0.00
ATOM	1626	HG3	PRO	X	104	24.401	38.171	19.440	0.00	0.00
ATOM	1627	CB	PRO	X	104	22.263	38.400	19.800	0.00	0.00
ATOM	1628	HB2	PRO	X	104	21.752	38.971	20.575	0.00	0.00
ATOM	1629	HB3	PRO	X	104	22.229	37.348	20.081	0.00	0.00
ATOM	1630	CA	PRO	X	104	21.749	38.707	18.389	0.00	0.00
ATOM	1631	HA	PRO	X	104	21.886	37.813	17.781	0.00	0.00
ATOM	1632	C	PRO	X	104	20.244	39.081	18.385	0.00	0.00
ATOM	1633	O	PRO	X	104	19.938	40.263	18.576	0.00	0.00
ATOM	1634	N	THR	X	105	19.288	38.176	18.152	0.00	0.00
ATOM	1635	H	THR	X	105	19.652	37.270	17.891	0.00	0.00
ATOM	1636	CA	THR	X	105	17.879	38.417	18.129	0.00	0.00
ATOM	1637	HA	THR	X	105	17.727	39.414	17.716	0.00	0.00
ATOM	1638	CB	THR	X	105	17.284	37.423	17.128	0.00	0.00
ATOM	1639	HB	THR	X	105	16.235	37.718	17.129	0.00	0.00
ATOM	1640	CG2	THR	X	105	17.724	37.797	15.706	0.00	0.00
ATOM	1641	HG21	THR	X	105	17.303	37.103	14.980	0.00	0.00
ATOM	1642	HG22	THR	X	105	18.810	37.712	15.671	0.00	0.00
ATOM	1643	HG23	THR	X	105	17.435	38.805	15.410	0.00	0.00
ATOM	1644	OG1	THR	X	105	17.403	36.098	17.385	0.00	0.00
ATOM	1645	HG1	THR	X	105	16.851	35.559	16.813	0.00	0.00
ATOM	1646	C	THR	X	105	17.150	38.327	19.415	0.00	0.00
ATOM	1647	O	THR	X	105	15.910	38.477	19.472	0.00	0.00
ATOM	1648	N	SER	X	106	17.911	38.196	20.436	0.00	0.00
ATOM	1649	H	SER	X	106	18.914	38.211	20.321	0.00	0.00
ATOM	1650	CA	SER	X	106	17.471	38.221	21.841	0.00	0.00
ATOM	1651	HA	SER	X	106	16.587	38.854	21.925	0.00	0.00
ATOM	1652	CB	SER	X	106	17.060	36.812	22.289	0.00	0.00
ATOM	1653	HB2	SER	X	106	16.518	36.880	23.232	0.00	0.00
ATOM	1654	HB3	SER	X	106	16.310	36.453	21.583	0.00	0.00
ATOM	1655	OG	SER	X	106	18.138	35.899	22.311	0.00	0.00
ATOM	1656	HG	SER	X	106	18.389	35.781	21.392	0.00	0.00
ATOM	1657	C	SER	X	106	18.610	38.787	22.773	0.00	0.00
ATOM	1658	O	SER	X	106	19.756	38.937	22.337	0.00	0.00
ATOM	1659	N	PRO	X	107	18.221	39.179	23.988	0.00	0.00
ATOM	1660	CD	PRO	X	107	16.936	39.249	24.620	0.00	0.00
ATOM	1661	HD2	PRO	X	107	16.668	38.204	24.779	0.00	0.00
ATOM	1662	HD3	PRO	X	107	16.233	39.763	23.965	0.00	0.00
ATOM	1663	CG	PRO	X	107	17.063	40.096	25.830	0.00	0.00
ATOM	1664	HG2	PRO	X	107	16.334	39.692	26.532	0.00	0.00
ATOM	1665	HG3	PRO	X	107	16.991	41.165	25.629	0.00	0.00
ATOM	1666	CB	PRO	X	107	18.472	39.841	26.334	0.00	0.00
ATOM	1667	HB2	PRO	X	107	18.443	39.006	27.034	0.00	0.00
ATOM	1668	HB3	PRO	X	107	18.918	40.737	26.766	0.00	0.00
ATOM	1669	CA	PRO	X	107	19.186	39.600	25.037	0.00	0.00
ATOM	1670	HA	PRO	X	107	19.528	40.556	24.642	0.00	0.00
ATOM	1671	C	PRO	X	107	20.302	38.538	25.230	0.00	0.00
ATOM	1672	O	PRO	X	107	20.075	37.369	24.931	0.00	0.00
ATOM	1673	N	THR	X	108	21.512	38.948	25.705	0.00	0.00
ATOM	1674	H	THR	X	108	21.665	39.919	25.937	0.00	0.00
ATOM	1675	CA	THR	X	108	22.627	38.004	26.076	0.00	0.00
ATOM	1676	HA	THR	X	108	22.159	37.071	26.389	0.00	0.00
ATOM	1677	CB	THR	X	108	23.479	37.608	24.861	0.00	0.00
ATOM	1678	HB	THR	X	108	23.142	36.628	24.523	0.00	0.00
ATOM	1679	CG2	THR	X	108	23.512	38.632	23.711	0.00	0.00
ATOM	1680	HG21	THR	X	108	23.853	39.505	24.268	0.00	0.00
ATOM	1681	HG22	THR	X	108	22.506	38.766	23.314	0.00	0.00
ATOM	1682	HG23	THR	X	108	24.293	38.417	22.981	0.00	0.00
ATOM	1683	OG1	THR	X	108	24.781	37.359	25.392	0.00	0.00
ATOM	1684	HG1	THR	X	108	25.335	37.099	24.653	0.00	0.00
ATOM	1685	C	THR	X	108	23.379	38.527	27.313	0.00	0.00
ATOM	1686	O	THR	X	108	23.585	39.725	27.468	0.00	0.00

ATOM	1687	N	PRO	X	109	23.937	37.604	28.142	0.00	0.00
ATOM	1688	CD	PRO	X	109	23.692	36.171	28.211	0.00	0.00
ATOM	1689	HD2	PRO	X	109	23.903	35.659	27.272	0.00	0.00
ATOM	1690	HD3	PRO	X	109	22.612	36.116	28.354	0.00	0.00
ATOM	1691	CG	PRO	X	109	24.483	35.594	29.359	0.00	0.00
ATOM	1692	HG2	PRO	X	109	25.351	35.074	28.955	0.00	0.00
ATOM	1693	HG3	PRO	X	109	23.908	34.963	30.038	0.00	0.00
ATOM	1694	CB	PRO	X	109	25.004	36.792	30.127	0.00	0.00
ATOM	1695	HB2	PRO	X	109	26.057	36.540	30.252	0.00	0.00
ATOM	1696	HB3	PRO	X	109	24.527	36.804	31.107	0.00	0.00
ATOM	1697	CA	PRO	X	109	24.685	38.058	29.294	0.00	0.00
ATOM	1698	HA	PRO	X	109	24.025	38.683	29.896	0.00	0.00
ATOM	1699	C	PRO	X	109	25.862	38.953	28.954	0.00	0.00
ATOM	1700	O	PRO	X	109	26.619	38.725	27.977	0.00	0.00
ATOM	1701	N	VAL	X	110	26.049	39.922	29.806	0.00	0.00
ATOM	1702	H	VAL	X	110	25.400	40.018	30.574	0.00	0.00
ATOM	1703	CA	VAL	X	110	27.104	40.990	29.693	0.00	0.00
ATOM	1704	HA	VAL	X	110	27.554	40.889	28.705	0.00	0.00
ATOM	1705	CB	VAL	X	110	26.491	42.489	29.804	0.00	0.00
ATOM	1706	HB	VAL	X	110	25.970	42.486	30.762	0.00	0.00
ATOM	1707	CG1	VAL	X	110	27.591	43.562	29.880	0.00	0.00
ATOM	1708	HG11	VAL	X	110	27.306	44.615	29.882	0.00	0.00
ATOM	1709	HG12	VAL	X	110	28.237	43.443	30.750	0.00	0.00
ATOM	1710	HG13	VAL	X	110	28.321	43.474	29.076	0.00	0.00
ATOM	1711	CG2	VAL	X	110	25.454	42.748	28.752	0.00	0.00
ATOM	1712	HG21	VAL	X	110	25.119	43.775	28.895	0.00	0.00
ATOM	1713	HG22	VAL	X	110	24.603	42.071	28.826	0.00	0.00
ATOM	1714	HG23	VAL	X	110	26.007	42.548	27.834	0.00	0.00
ATOM	1715	C	VAL	X	110	28.188	40.785	30.785	0.00	0.00
ATOM	1716	O	VAL	X	110	27.858	40.527	31.940	0.00	0.00
ATOM	1717	N	LEU	X	111	29.467	40.769	30.389	0.00	0.00
ATOM	1718	H	LEU	X	111	29.651	40.927	29.409	0.00	0.00
ATOM	1719	CA	LEU	X	111	30.693	40.607	31.234	0.00	0.00
ATOM	1720	HA	LEU	X	111	30.465	40.359	32.270	0.00	0.00
ATOM	1721	CB	LEU	X	111	31.551	39.547	30.483	0.00	0.00
ATOM	1722	HB2	LEU	X	111	31.645	39.969	29.482	0.00	0.00
ATOM	1723	HB3	LEU	X	111	32.583	39.608	30.828	0.00	0.00
ATOM	1724	CG	LEU	X	111	31.254	38.022	30.462	0.00	0.00
ATOM	1725	HG	LEU	X	111	30.342	37.931	29.873	0.00	0.00
ATOM	1726	CD1	LEU	X	111	32.226	37.138	29.769	0.00	0.00
ATOM	1727	HD11	LEU	X	111	31.912	36.204	29.304	0.00	0.00
ATOM	1728	HD12	LEU	X	111	33.109	36.885	30.356	0.00	0.00
ATOM	1729	HD13	LEU	X	111	32.733	37.742	29.016	0.00	0.00
ATOM	1730	CD2	LEU	X	111	30.902	37.525	31.936	0.00	0.00
ATOM	1731	HD21	LEU	X	111	29.834	37.585	32.144	0.00	0.00
ATOM	1732	HD22	LEU	X	111	31.275	36.513	32.089	0.00	0.00
ATOM	1733	HD23	LEU	X	111	31.365	38.161	32.691	0.00	0.00
ATOM	1734	C	LEU	X	111	31.524	41.909	31.251	0.00	0.00
ATOM	1735	O	LEU	X	111	31.998	42.392	30.202	0.00	0.00
ATOM	1736	N	VAL	X	112	31.882	42.339	32.424	0.00	0.00
ATOM	1737	H	VAL	X	112	31.542	41.763	33.181	0.00	0.00
ATOM	1738	CA	VAL	X	112	32.441	43.717	32.627	0.00	0.00
ATOM	1739	HA	VAL	X	112	32.469	44.273	31.689	0.00	0.00
ATOM	1740	CB	VAL	X	112	31.628	44.592	33.569	0.00	0.00
ATOM	1741	HB	VAL	X	112	31.483	44.053	34.505	0.00	0.00
ATOM	1742	CG1	VAL	X	112	32.317	45.945	33.833	0.00	0.00
ATOM	1743	HG11	VAL	X	112	33.406	45.895	33.838	0.00	0.00
ATOM	1744	HG12	VAL	X	112	32.092	46.681	33.061	0.00	0.00
ATOM	1745	HG13	VAL	X	112	31.922	46.431	34.726	0.00	0.00
ATOM	1746	CG2	VAL	X	112	30.282	44.961	33.057	0.00	0.00
ATOM	1747	HG21	VAL	X	112	29.594	45.289	33.836	0.00	0.00
ATOM	1748	HG22	VAL	X	112	29.822	44.044	32.689	0.00	0.00
ATOM	1749	HG23	VAL	X	112	30.300	45.628	32.194	0.00	0.00
ATOM	1750	C	VAL	X	112	33.827	43.517	33.119	0.00	0.00
ATOM	1751	O	VAL	X	112	34.027	43.266	34.302	0.00	0.00
ATOM	1752	N	TRP	X	113	34.752	43.718	32.173	0.00	0.00
ATOM	1753	H	TRP	X	113	34.470	44.008	31.247	0.00	0.00

ATOM	1754	CA	TRP	X	113	36.141	43.658	32.441	0.00	0.00
ATOM	1755	HA	TRP	X	113	36.280	42.807	33.108	0.00	0.00
ATOM	1756	CB	TRP	X	113	36.991	43.319	31.157	0.00	0.00
ATOM	1757	HB2	TRP	X	113	36.596	42.383	30.760	0.00	0.00
ATOM	1758	HB3	TRP	X	113	36.938	44.112	30.412	0.00	0.00
ATOM	1759	CG	TRP	X	113	38.412	43.095	31.584	0.00	0.00
ATOM	1760	CD1	TRP	X	113	39.494	43.913	31.479	0.00	0.00
ATOM	1761	HD1	TRP	X	113	39.519	44.847	30.938	0.00	0.00
ATOM	1762	NE1	TRP	X	113	40.626	43.296	32.046	0.00	0.00
ATOM	1763	HE1	TRP	X	113	41.597	43.536	31.904	0.00	0.00
ATOM	1764	CE2	TRP	X	113	40.292	42.120	32.629	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	41.001	41.114	33.230	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	42.033	41.331	33.461	0.00	0.00
ATOM	1767	CH2	TRP	X	113	40.424	39.913	33.570	0.00	0.00
ATOM	1768	HH2	TRP	X	113	40.986	39.100	34.006	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	39.027	39.723	33.360	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	38.596	38.810	33.743	0.00	0.00
ATOM	1771	CE3	TRP	X	113	38.205	40.764	32.903	0.00	0.00
ATOM	1772	HE3	TRP	X	113	37.130	40.719	32.813	0.00	0.00
ATOM	1773	CD2	TRP	X	113	38.881	41.929	32.384	0.00	0.00
ATOM	1774	C	TRP	X	113	36.722	44.867	33.210	0.00	0.00
ATOM	1775	O	TRP	X	113	36.547	46.031	32.898	0.00	0.00
ATOM	1776	N	ILE	X	114	37.476	44.514	34.231	0.00	0.00
ATOM	1777	H	ILE	X	114	37.757	43.544	34.263	0.00	0.00
ATOM	1778	CA	ILE	X	114	38.146	45.390	35.225	0.00	0.00
ATOM	1779	HA	ILE	X	114	38.243	46.397	34.821	0.00	0.00
ATOM	1780	CB	ILE	X	114	37.250	45.486	36.496	0.00	0.00
ATOM	1781	HB	ILE	X	114	37.111	44.472	36.871	0.00	0.00
ATOM	1782	CG2	ILE	X	114	37.861	46.324	37.646	0.00	0.00
ATOM	1783	HG21	ILE	X	114	37.344	46.162	38.592	0.00	0.00
ATOM	1784	HG22	ILE	X	114	37.918	47.380	37.381	0.00	0.00
ATOM	1785	HG23	ILE	X	114	38.896	46.020	37.809	0.00	0.00
ATOM	1786	CG1	ILE	X	114	35.853	46.090	36.205	0.00	0.00
ATOM	1787	HG12	ILE	X	114	35.989	47.072	35.752	0.00	0.00
ATOM	1788	HG13	ILE	X	114	35.385	45.490	35.424	0.00	0.00
ATOM	1789	CD1	ILE	X	114	34.843	46.257	37.355	0.00	0.00
ATOM	1790	HD11	ILE	X	114	34.211	47.117	37.130	0.00	0.00
ATOM	1791	HD12	ILE	X	114	35.163	46.531	38.360	0.00	0.00
ATOM	1792	HD13	ILE	X	114	34.339	45.297	37.461	0.00	0.00
ATOM	1793	C	ILE	X	114	39.561	44.822	35.423	0.00	0.00
ATOM	1794	O	ILE	X	114	39.691	43.638	35.752	0.00	0.00
ATOM	1795	N	TYR	X	115	40.619	45.597	35.130	0.00	0.00
ATOM	1796	H	TYR	X	115	40.563	46.604	35.185	0.00	0.00
ATOM	1797	CA	TYR	X	115	42.059	45.139	35.136	0.00	0.00
ATOM	1798	HA	TYR	X	115	42.144	44.063	34.983	0.00	0.00
ATOM	1799	CB	TYR	X	115	42.747	45.713	33.929	0.00	0.00
ATOM	1800	HB2	TYR	X	115	43.784	45.385	33.993	0.00	0.00
ATOM	1801	HB3	TYR	X	115	42.219	45.239	33.102	0.00	0.00
ATOM	1802	CG	TYR	X	115	42.697	47.209	33.858	0.00	0.00
ATOM	1803	CD1	TYR	X	115	43.347	48.019	34.922	0.00	0.00
ATOM	1804	HD1	TYR	X	115	43.852	47.509	35.729	0.00	0.00
ATOM	1805	CE1	TYR	X	115	43.301	49.404	34.941	0.00	0.00
ATOM	1806	HE1	TYR	X	115	43.822	50.023	35.657	0.00	0.00
ATOM	1807	CZ	TYR	X	115	42.554	50.077	33.944	0.00	0.00
ATOM	1808	OH	TYR	X	115	42.298	51.448	34.058	0.00	0.00
ATOM	1809	HH	TYR	X	115	42.746	51.699	34.869	0.00	0.00
ATOM	1810	CE2	TYR	X	115	41.870	49.332	32.924	0.00	0.00
ATOM	1811	HE2	TYR	X	115	41.154	49.824	32.282	0.00	0.00
ATOM	1812	CD2	TYR	X	115	41.926	47.921	32.877	0.00	0.00
ATOM	1813	HD2	TYR	X	115	41.336	47.381	32.150	0.00	0.00
ATOM	1814	C	TYR	X	115	42.721	45.359	36.490	0.00	0.00
ATOM	1815	O	TYR	X	115	42.386	46.219	37.280	0.00	0.00
ATOM	1816	N	GLY	X	116	43.724	44.529	36.820	0.00	0.00
ATOM	1817	H	GLY	X	116	43.781	43.684	36.271	0.00	0.00
ATOM	1818	CA	GLY	X	116	44.630	44.701	37.979	0.00	0.00
ATOM	1819	HA2	GLY	X	116	44.057	44.994	38.859	0.00	0.00
ATOM	1820	HA3	GLY	X	116	45.067	43.705	38.048	0.00	0.00

ATOM	1821	C	GLY	X	116	45.722	45.661	37.826	0.00	0.00
ATOM	1822	O	GLY	X	116	45.527	46.600	37.065	0.00	0.00
ATOM	1823	N	GLY	X	117	46.735	45.587	38.594	0.00	0.00
ATOM	1824	H	GLY	X	117	46.796	44.760	39.170	0.00	0.00
ATOM	1825	CA	GLY	X	117	47.964	46.453	38.604	0.00	0.00
ATOM	1826	HA2	GLY	X	117	48.821	45.893	38.230	0.00	0.00
ATOM	1827	HA3	GLY	X	117	47.726	47.366	38.058	0.00	0.00
ATOM	1828	C	GLY	X	117	48.377	46.923	39.964	0.00	0.00
ATOM	1829	O	GLY	X	117	49.130	47.896	39.962	0.00	0.00
ATOM	1830	N	GLY	X	118	47.808	46.354	41.045	0.00	0.00
ATOM	1831	H	GLY	X	118	47.188	45.585	40.833	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.024	46.777	42.427	0.00	0.00
ATOM	1833	HA2	GLY	X	118	47.303	46.281	43.076	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.006	46.501	42.812	0.00	0.00
ATOM	1835	C	GLY	X	118	47.615	48.198	42.706	0.00	0.00
ATOM	1836	O	GLY	X	118	48.102	48.765	43.685	0.00	0.00
ATOM	1837	N	PHE	X	119	46.755	48.788	41.875	0.00	0.00
ATOM	1838	H	PHE	X	119	46.568	48.302	41.009	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.227	50.200	41.824	0.00	0.00
ATOM	1840	HA	PHE	X	119	45.311	50.271	41.237	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.639	50.606	43.141	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.289	50.507	44.010	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.201	51.604	43.184	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.512	49.666	43.585	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.278	49.796	42.927	0.00	0.00
ATOM	1846	HD1	PHE	X	119	43.108	50.506	42.131	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.134	49.076	43.443	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.123	49.204	43.086	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.300	48.067	44.406	0.00	0.00
ATOM	1850	HZ	PHE	X	119	41.492	47.434	44.741	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.582	47.875	45.022	0.00	0.00
ATOM	1852	HE2	PHE	X	119	43.780	47.173	45.818	0.00	0.00
ATOM	1853	CD2	PHE	X	119	44.636	48.737	44.630	0.00	0.00
ATOM	1854	HD2	PHE	X	119	45.554	48.574	45.175	0.00	0.00
ATOM	1855	C	PHE	X	119	47.256	51.223	41.338	0.00	0.00
ATOM	1856	O	PHE	X	119	46.935	52.391	41.340	0.00	0.00
ATOM	1857	N	TYR	X	120	48.475	50.853	40.896	0.00	0.00
ATOM	1858	H	TYR	X	120	48.673	49.863	40.926	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.466	51.678	40.365	0.00	0.00
ATOM	1860	HA	TYR	X	120	49.124	52.705	40.238	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.616	51.787	41.420	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.970	52.818	41.422	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.173	51.777	42.416	0.00	0.00
ATOM	1864	CG	TYR	X	120	51.724	50.733	41.251	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.951	51.230	40.784	0.00	0.00
ATOM	1866	HD1	TYR	X	120	53.006	52.216	40.348	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.092	50.311	40.763	0.00	0.00
ATOM	1868	HE1	TYR	X	120	55.066	50.680	40.481	0.00	0.00
ATOM	1869	CZ	TYR	X	120	53.918	48.975	41.161	0.00	0.00
ATOM	1870	OH	TYR	X	120	54.967	48.078	41.112	0.00	0.00
ATOM	1871	HH	TYR	X	120	54.610	47.188	41.153	0.00	0.00
ATOM	1872	CE2	TYR	X	120	52.622	48.539	41.554	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.533	47.467	41.647	0.00	0.00
ATOM	1874	CD2	TYR	X	120	51.544	49.406	41.543	0.00	0.00
ATOM	1875	HD2	TYR	X	120	50.595	49.016	41.881	0.00	0.00
ATOM	1876	C	TYR	X	120	50.021	51.430	38.921	0.00	0.00
ATOM	1877	O	TYR	X	120	50.720	52.324	38.464	0.00	0.00
ATOM	1878	N	SER	X	121	49.614	50.327	38.208	0.00	0.00
ATOM	1879	H	SER	X	121	49.321	49.528	38.751	0.00	0.00
ATOM	1880	CA	SER	X	121	49.986	50.114	36.849	0.00	0.00
ATOM	1881	HA	SER	X	121	49.996	51.022	36.246	0.00	0.00
ATOM	1882	CB	SER	X	121	51.473	49.616	36.807	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.772	49.421	35.778	0.00	0.00
ATOM	1884	HB3	SER	X	121	52.156	50.384	37.173	0.00	0.00
ATOM	1885	OG	SER	X	121	51.632	48.366	37.477	0.00	0.00
ATOM	1886	HG	SER	X	121	50.937	47.775	37.179	0.00	0.00
ATOM	1887	C	SER	X	121	49.021	49.136	36.182	0.00	0.00

ATOM	1888	O	SER	X	121	49.097	47.955	36.477	0.00	0.00
ATOM	1889	N	GLY	X	122	48.153	49.639	35.309	0.00	0.00
ATOM	1890	H	GLY	X	122	48.067	50.645	35.311	0.00	0.00
ATOM	1891	CA	GLY	X	122	47.223	48.810	34.550	0.00	0.00
ATOM	1892	HA2	GLY	X	122	47.828	48.035	34.078	0.00	0.00
ATOM	1893	HA3	GLY	X	122	46.550	48.288	35.230	0.00	0.00
ATOM	1894	C	GLY	X	122	46.431	49.658	33.538	0.00	0.00
ATOM	1895	O	GLY	X	122	46.327	50.921	33.654	0.00	0.00
ATOM	1896	N	ALA	X	123	46.017	48.995	32.463	0.00	0.00
ATOM	1897	H	ALA	X	123	46.467	48.104	32.307	0.00	0.00
ATOM	1898	CA	ALA	X	123	45.163	49.530	31.376	0.00	0.00
ATOM	1899	HA	ALA	X	123	44.388	50.158	31.814	0.00	0.00
ATOM	1900	CB	ALA	X	123	46.027	50.322	30.445	0.00	0.00
ATOM	1901	HB1	ALA	X	123	47.016	49.921	30.222	0.00	0.00
ATOM	1902	HB2	ALA	X	123	46.199	51.300	30.894	0.00	0.00
ATOM	1903	HB3	ALA	X	123	45.431	50.749	29.637	0.00	0.00
ATOM	1904	C	ALA	X	123	44.385	48.506	30.442	0.00	0.00
ATOM	1905	O	ALA	X	123	44.842	47.461	30.180	0.00	0.00
ATOM	1906	N	SER	X	124	43.248	48.869	30.001	0.00	0.00
ATOM	1907	H	SER	X	124	42.855	49.747	30.309	0.00	0.00
ATOM	1908	CA	SER	X	124	42.315	47.993	29.205	0.00	0.00
ATOM	1909	HA	SER	X	124	42.315	47.053	29.756	0.00	0.00
ATOM	1910	CB	SER	X	124	40.866	48.392	29.293	0.00	0.00
ATOM	1911	HB2	SER	X	124	40.353	48.092	28.380	0.00	0.00
ATOM	1912	HB3	SER	X	124	40.344	47.855	30.085	0.00	0.00
ATOM	1913	OG	SER	X	124	40.782	49.769	29.459	0.00	0.00
ATOM	1914	HG	SER	X	124	40.125	49.945	30.136	0.00	0.00
ATOM	1915	C	SER	X	124	42.643	47.689	27.791	0.00	0.00
ATOM	1916	O	SER	X	124	42.238	46.711	27.178	0.00	0.00
ATOM	1917	N	SER	X	125	43.558	48.466	27.254	0.00	0.00
ATOM	1918	H	SER	X	125	43.936	49.260	27.751	0.00	0.00
ATOM	1919	CA	SER	X	125	44.008	48.279	25.874	0.00	0.00
ATOM	1920	HA	SER	X	125	43.232	47.975	25.172	0.00	0.00
ATOM	1921	CB	SER	X	125	44.484	49.611	25.341	0.00	0.00
ATOM	1922	HB2	SER	X	125	44.539	49.372	24.279	0.00	0.00
ATOM	1923	HB3	SER	X	125	43.724	50.362	25.558	0.00	0.00
ATOM	1924	OG	SER	X	125	45.741	49.889	25.944	0.00	0.00
ATOM	1925	HG	SER	X	125	46.444	49.500	25.419	0.00	0.00
ATOM	1926	C	SER	X	125	45.123	47.222	25.672	0.00	0.00
ATOM	1927	O	SER	X	125	45.374	46.902	24.513	0.00	0.00
ATOM	1928	N	LEU	X	126	45.745	46.643	26.740	0.00	0.00
ATOM	1929	H	LEU	X	126	45.297	46.881	27.613	0.00	0.00
ATOM	1930	CA	LEU	X	126	46.743	45.582	26.737	0.00	0.00
ATOM	1931	HA	LEU	X	126	47.587	45.808	26.086	0.00	0.00
ATOM	1932	CB	LEU	X	126	47.199	45.345	28.170	0.00	0.00
ATOM	1933	HB2	LEU	X	126	46.323	44.999	28.719	0.00	0.00
ATOM	1934	HB3	LEU	X	126	47.902	44.527	28.332	0.00	0.00
ATOM	1935	CG	LEU	X	126	47.917	46.557	28.795	0.00	0.00
ATOM	1936	HG	LEU	X	126	47.272	47.434	28.743	0.00	0.00
ATOM	1937	CD1	LEU	X	126	48.281	46.292	30.294	0.00	0.00
ATOM	1938	HD11	LEU	X	126	49.250	46.682	30.606	0.00	0.00
ATOM	1939	HD12	LEU	X	126	48.381	45.214	30.423	0.00	0.00
ATOM	1940	HD13	LEU	X	126	47.471	46.555	30.975	0.00	0.00
ATOM	1941	CD2	LEU	X	126	49.206	46.877	28.064	0.00	0.00
ATOM	1942	HD21	LEU	X	126	48.973	47.442	27.161	0.00	0.00
ATOM	1943	HD22	LEU	X	126	49.855	47.508	28.672	0.00	0.00
ATOM	1944	HD23	LEU	X	126	49.807	46.060	27.665	0.00	0.00
ATOM	1945	C	LEU	X	126	46.011	44.362	26.187	0.00	0.00
ATOM	1946	O	LEU	X	126	44.974	43.941	26.687	0.00	0.00
ATOM	1947	N	ASP	X	127	46.583	43.742	25.103	0.00	0.00
ATOM	1948	H	ASP	X	127	47.498	44.062	24.817	0.00	0.00
ATOM	1949	CA	ASP	X	127	45.701	42.998	24.166	0.00	0.00
ATOM	1950	HA	ASP	X	127	44.814	43.630	24.118	0.00	0.00
ATOM	1951	CB	ASP	X	127	46.306	42.954	22.763	0.00	0.00
ATOM	1952	HB2	ASP	X	127	45.615	42.454	22.084	0.00	0.00
ATOM	1953	HB3	ASP	X	127	46.447	43.972	22.399	0.00	0.00
ATOM	1954	CG	ASP	X	127	47.613	42.250	22.551	0.00	0.00

ATOM	1955	OD1	ASP	X	127	47.676	41.048	22.821	0.00	0.00
ATOM	1956	OD2	ASP	X	127	48.483	42.871	21.830	0.00	0.00
ATOM	1957	C	ASP	X	127	45.353	41.599	24.715	0.00	0.00
ATOM	1958	O	ASP	X	127	44.561	40.882	24.077	0.00	0.00
ATOM	1959	N	VAL	X	128	45.847	41.176	25.907	0.00	0.00
ATOM	1960	H	VAL	X	128	46.476	41.829	26.351	0.00	0.00
ATOM	1961	CA	VAL	X	128	45.404	39.934	26.587	0.00	0.00
ATOM	1962	HA	VAL	X	128	45.376	39.159	25.822	0.00	0.00
ATOM	1963	CB	VAL	X	128	46.448	39.494	27.663	0.00	0.00
ATOM	1964	HB	VAL	X	128	47.423	39.454	27.176	0.00	0.00
ATOM	1965	CG1	VAL	X	128	46.406	40.414	28.907	0.00	0.00
ATOM	1966	HG11	VAL	X	128	45.978	39.828	29.721	0.00	0.00
ATOM	1967	HG12	VAL	X	128	47.435	40.444	29.265	0.00	0.00
ATOM	1968	HG13	VAL	X	128	46.124	41.427	28.619	0.00	0.00
ATOM	1969	CG2	VAL	X	128	46.192	38.026	28.099	0.00	0.00
ATOM	1970	HG21	VAL	X	128	46.817	37.689	28.926	0.00	0.00
ATOM	1971	HG22	VAL	X	128	46.288	37.371	27.233	0.00	0.00
ATOM	1972	HG23	VAL	X	128	45.226	37.933	28.593	0.00	0.00
ATOM	1973	C	VAL	X	128	44.011	40.044	27.172	0.00	0.00
ATOM	1974	O	VAL	X	128	43.269	39.063	27.429	0.00	0.00
ATOM	1975	N	TYR	X	129	43.515	41.308	27.233	0.00	0.00
ATOM	1976	H	TYR	X	129	44.107	42.096	27.015	0.00	0.00
ATOM	1977	CA	TYR	X	129	42.150	41.679	27.763	0.00	0.00
ATOM	1978	HA	TYR	X	129	41.655	40.879	28.314	0.00	0.00
ATOM	1979	CB	TYR	X	129	42.288	43.021	28.572	0.00	0.00
ATOM	1980	HB2	TYR	X	129	42.565	43.858	27.932	0.00	0.00
ATOM	1981	HB3	TYR	X	129	41.287	43.265	28.928	0.00	0.00
ATOM	1982	CG	TYR	X	129	43.200	43.126	29.843	0.00	0.00
ATOM	1983	CD1	TYR	X	129	43.416	42.014	30.651	0.00	0.00
ATOM	1984	HD1	TYR	X	129	42.898	41.094	30.422	0.00	0.00
ATOM	1985	CE1	TYR	X	129	44.301	42.078	31.738	0.00	0.00
ATOM	1986	HE1	TYR	X	129	44.292	41.260	32.443	0.00	0.00
ATOM	1987	CZ	TYR	X	129	44.906	43.313	31.988	0.00	0.00
ATOM	1988	OH	TYR	X	129	45.671	43.463	33.099	0.00	0.00
ATOM	1989	HH	TYR	X	129	45.216	43.010	33.813	0.00	0.00
ATOM	1990	CE2	TYR	X	129	44.831	44.401	31.076	0.00	0.00
ATOM	1991	HE2	TYR	X	129	45.299	45.329	31.368	0.00	0.00
ATOM	1992	CD2	TYR	X	129	43.940	44.332	30.046	0.00	0.00
ATOM	1993	HD2	TYR	X	129	43.625	45.181	29.456	0.00	0.00
ATOM	1994	C	TYR	X	129	41.125	41.961	26.545	0.00	0.00
ATOM	1995	O	TYR	X	129	40.254	42.741	26.672	0.00	0.00
ATOM	1996	N	ASP	X	130	41.333	41.345	25.372	0.00	0.00
ATOM	1997	H	ASP	X	130	42.177	40.794	25.306	0.00	0.00
ATOM	1998	CA	ASP	X	130	40.574	41.671	24.147	0.00	0.00
ATOM	1999	HA	ASP	X	130	40.081	42.621	24.355	0.00	0.00
ATOM	2000	CB	ASP	X	130	41.493	41.757	22.922	0.00	0.00
ATOM	2001	HB2	ASP	X	130	42.323	42.398	23.218	0.00	0.00
ATOM	2002	HB3	ASP	X	130	41.852	40.733	22.821	0.00	0.00
ATOM	2003	CG	ASP	X	130	40.831	42.307	21.620	0.00	0.00
ATOM	2004	OD1	ASP	X	130	39.826	41.775	21.089	0.00	0.00
ATOM	2005	OD2	ASP	X	130	41.376	43.289	21.117	0.00	0.00
ATOM	2006	C	ASP	X	130	39.521	40.530	23.904	0.00	0.00
ATOM	2007	O	ASP	X	130	39.924	39.370	23.859	0.00	0.00
ATOM	2008	N	GLY	X	131	38.274	40.927	23.764	0.00	0.00
ATOM	2009	H	GLY	X	131	38.139	41.928	23.768	0.00	0.00
ATOM	2010	CA	GLY	X	131	37.117	39.959	23.985	0.00	0.00
ATOM	2011	HA2	GLY	X	131	37.296	39.360	24.878	0.00	0.00
ATOM	2012	HA3	GLY	X	131	36.220	40.558	24.141	0.00	0.00
ATOM	2013	C	GLY	X	131	36.695	39.060	22.727	0.00	0.00
ATOM	2014	O	GLY	X	131	35.800	38.265	22.883	0.00	0.00
ATOM	2015	N	ARG	X	132	37.276	39.228	21.517	0.00	0.00
ATOM	2016	H	ARG	X	132	37.951	39.979	21.498	0.00	0.00
ATOM	2017	CA	ARG	X	132	36.848	38.658	20.246	0.00	0.00
ATOM	2018	HA	ARG	X	132	35.860	39.090	20.083	0.00	0.00
ATOM	2019	CB	ARG	X	132	37.780	38.925	19.087	0.00	0.00
ATOM	2020	HB2	ARG	X	132	37.410	38.433	18.188	0.00	0.00
ATOM	2021	HB3	ARG	X	132	37.851	39.996	18.902	0.00	0.00

ATOM	2022	CG	ARG	X	132	39.225	38.473	19.210	0.00	0.00
ATOM	2023	HG2	ARG	X	132	39.462	38.502	20.274	0.00	0.00
ATOM	2024	HG3	ARG	X	132	39.184	37.444	18.852	0.00	0.00
ATOM	2025	CD	ARG	X	132	40.204	39.143	18.311	0.00	0.00
ATOM	2026	HD2	ARG	X	132	41.176	38.654	18.376	0.00	0.00
ATOM	2027	HD3	ARG	X	132	39.873	39.051	17.276	0.00	0.00
ATOM	2028	NE	ARG	X	132	40.456	40.531	18.712	0.00	0.00
ATOM	2029	HE	ARG	X	132	40.429	40.759	19.695	0.00	0.00
ATOM	2030	CZ	ARG	X	132	41.018	41.392	17.916	0.00	0.00
ATOM	2031	NH1	ARG	X	132	41.255	41.123	16.588	0.00	0.00
ATOM	2032	HH11	ARG	X	132	40.940	40.252	16.184	0.00	0.00
ATOM	2033	HH12	ARG	X	132	41.809	41.823	16.117	0.00	0.00
ATOM	2034	NH2	ARG	X	132	41.377	42.568	18.344	0.00	0.00
ATOM	2035	HH21	ARG	X	132	41.071	42.879	19.255	0.00	0.00
ATOM	2036	HH22	ARG	X	132	41.802	43.191	17.673	0.00	0.00
ATOM	2037	C	ARG	X	132	36.573	37.141	20.222	0.00	0.00
ATOM	2038	O	ARG	X	132	35.599	36.596	19.691	0.00	0.00
ATOM	2039	N	PHE	X	133	37.436	36.387	20.901	0.00	0.00
ATOM	2040	H	PHE	X	133	38.250	36.795	21.338	0.00	0.00
ATOM	2041	CA	PHE	X	133	37.404	34.944	21.059	0.00	0.00
ATOM	2042	HA	PHE	X	133	37.067	34.618	20.075	0.00	0.00
ATOM	2043	CB	PHE	X	133	38.798	34.372	21.387	0.00	0.00
ATOM	2044	HB2	PHE	X	133	39.256	34.855	22.249	0.00	0.00
ATOM	2045	HB3	PHE	X	133	38.805	33.302	21.598	0.00	0.00
ATOM	2046	CG	PHE	X	133	39.697	34.686	20.193	0.00	0.00
ATOM	2047	CD1	PHE	X	133	40.604	35.784	20.382	0.00	0.00
ATOM	2048	HD1	PHE	X	133	40.780	36.258	21.337	0.00	0.00
ATOM	2049	CE1	PHE	X	133	41.528	36.130	19.352	0.00	0.00
ATOM	2050	HE1	PHE	X	133	42.282	36.849	19.639	0.00	0.00
ATOM	2051	CZ	PHE	X	133	41.502	35.482	18.128	0.00	0.00
ATOM	2052	HZ	PHE	X	133	42.174	35.750	17.326	0.00	0.00
ATOM	2053	CE2	PHE	X	133	40.658	34.356	17.989	0.00	0.00
ATOM	2054	HE2	PHE	X	133	40.751	33.862	17.033	0.00	0.00
ATOM	2055	CD2	PHE	X	133	39.746	33.964	18.988	0.00	0.00
ATOM	2056	HD2	PHE	X	133	39.016	33.200	18.762	0.00	0.00
ATOM	2057	C	PHE	X	133	36.296	34.528	22.018	0.00	0.00
ATOM	2058	O	PHE	X	133	35.494	33.667	21.679	0.00	0.00
ATOM	2059	N	LEU	X	134	36.364	35.161	23.205	0.00	0.00
ATOM	2060	H	LEU	X	134	37.108	35.810	23.415	0.00	0.00
ATOM	2061	CA	LEU	X	134	35.344	34.949	24.223	0.00	0.00
ATOM	2062	HA	LEU	X	134	35.324	33.888	24.472	0.00	0.00
ATOM	2063	CB	LEU	X	134	35.714	35.759	25.481	0.00	0.00
ATOM	2064	HB2	LEU	X	134	36.759	35.599	25.746	0.00	0.00
ATOM	2065	HB3	LEU	X	134	35.640	36.838	25.346	0.00	0.00
ATOM	2066	CG	LEU	X	134	34.825	35.373	26.727	0.00	0.00
ATOM	2067	HG	LEU	X	134	33.846	35.838	26.608	0.00	0.00
ATOM	2068	CD1	LEU	X	134	34.633	33.879	27.004	0.00	0.00
ATOM	2069	HD11	LEU	X	134	35.523	33.291	27.227	0.00	0.00
ATOM	2070	HD12	LEU	X	134	33.984	33.457	26.237	0.00	0.00
ATOM	2071	HD13	LEU	X	134	33.992	33.853	27.885	0.00	0.00
ATOM	2072	CD2	LEU	X	134	35.473	36.123	27.886	0.00	0.00
ATOM	2073	HD21	LEU	X	134	34.849	35.927	28.758	0.00	0.00
ATOM	2074	HD22	LEU	X	134	36.504	35.777	27.961	0.00	0.00
ATOM	2075	HD23	LEU	X	134	35.421	37.196	27.701	0.00	0.00
ATOM	2076	C	LEU	X	134	33.920	35.290	23.679	0.00	0.00
ATOM	2077	O	LEU	X	134	32.962	34.570	23.925	0.00	0.00
ATOM	2078	N	VAL	X	135	33.852	36.371	22.916	0.00	0.00
ATOM	2079	H	VAL	X	135	34.646	36.983	23.039	0.00	0.00
ATOM	2080	CA	VAL	X	135	32.675	36.789	22.181	0.00	0.00
ATOM	2081	HA	VAL	X	135	31.922	36.895	22.961	0.00	0.00
ATOM	2082	CB	VAL	X	135	32.570	38.268	21.806	0.00	0.00
ATOM	2083	HB	VAL	X	135	33.486	38.378	21.227	0.00	0.00
ATOM	2084	CG1	VAL	X	135	31.293	38.802	21.139	0.00	0.00
ATOM	2085	HG11	VAL	X	135	30.404	38.620	21.743	0.00	0.00
ATOM	2086	HG12	VAL	X	135	31.294	39.892	21.173	0.00	0.00
ATOM	2087	HG13	VAL	X	135	31.261	38.414	20.121	0.00	0.00
ATOM	2088	CG2	VAL	X	135	32.761	39.092	23.089	0.00	0.00

ATOM	2089	HG21	VAL	X	135	31.818	39.331	23.581	0.00	0.00
ATOM	2090	HG22	VAL	X	135	33.276	40.021	22.847	0.00	0.00
ATOM	2091	HG23	VAL	X	135	33.377	38.521	23.784	0.00	0.00
ATOM	2092	C	VAL	X	135	32.135	35.906	21.097	0.00	0.00
ATOM	2093	O	VAL	X	135	30.937	35.675	21.037	0.00	0.00
ATOM	2094	N	GLN	X	136	33.027	35.413	20.245	0.00	0.00
ATOM	2095	H	GLN	X	136	33.972	35.767	20.298	0.00	0.00
ATOM	2096	CA	GLN	X	136	32.657	34.404	19.262	0.00	0.00
ATOM	2097	HA	GLN	X	136	31.804	34.832	18.734	0.00	0.00
ATOM	2098	CB	GLN	X	136	33.872	34.195	18.260	0.00	0.00
ATOM	2099	HB2	GLN	X	136	34.493	35.082	18.135	0.00	0.00
ATOM	2100	HB3	GLN	X	136	34.514	33.404	18.647	0.00	0.00
ATOM	2101	CG	GLN	X	136	33.497	33.710	16.841	0.00	0.00
ATOM	2102	HG2	GLN	X	136	32.746	34.384	16.428	0.00	0.00
ATOM	2103	HG3	GLN	X	136	34.422	33.752	16.266	0.00	0.00
ATOM	2104	CD	GLN	X	136	32.872	32.230	16.855	0.00	0.00
ATOM	2105	OE1	GLN	X	136	33.557	31.215	17.131	0.00	0.00
ATOM	2106	NE2	GLN	X	136	31.625	32.056	16.415	0.00	0.00
ATOM	2107	HE21	GLN	X	136	31.215	31.133	16.445	0.00	0.00
ATOM	2108	HE22	GLN	X	136	31.112	32.845	16.048	0.00	0.00
ATOM	2109	C	GLN	X	136	32.272	33.010	19.835	0.00	0.00
ATOM	2110	O	GLN	X	136	31.102	32.570	19.649	0.00	0.00
ATOM	2111	N	ALA	X	137	33.138	32.357	20.645	0.00	0.00
ATOM	2112	H	ALA	X	137	33.955	32.890	20.908	0.00	0.00
ATOM	2113	CA	ALA	X	137	32.834	31.117	21.314	0.00	0.00
ATOM	2114	HA	ALA	X	137	32.824	30.347	20.543	0.00	0.00
ATOM	2115	CB	ALA	X	137	34.020	30.744	22.307	0.00	0.00
ATOM	2116	HB1	ALA	X	137	34.947	30.638	21.744	0.00	0.00
ATOM	2117	HB2	ALA	X	137	33.818	29.865	22.920	0.00	0.00
ATOM	2118	HB3	ALA	X	137	34.264	31.586	22.956	0.00	0.00
ATOM	2119	C	ALA	X	137	31.468	31.086	22.095	0.00	0.00
ATOM	2120	O	ALA	X	137	30.660	30.176	21.835	0.00	0.00
ATOM	2121	N	GLU	X	138	31.196	32.013	23.005	0.00	0.00
ATOM	2122	H	GLU	X	138	31.931	32.682	23.188	0.00	0.00
ATOM	2123	CA	GLU	X	138	30.193	31.896	24.054	0.00	0.00
ATOM	2124	HA	GLU	X	138	29.620	30.976	23.940	0.00	0.00
ATOM	2125	CB	GLU	X	138	30.809	31.926	25.462	0.00	0.00
ATOM	2126	HB2	GLU	X	138	31.571	32.706	25.454	0.00	0.00
ATOM	2127	HB3	GLU	X	138	30.020	32.215	26.157	0.00	0.00
ATOM	2128	CG	GLU	X	138	31.487	30.601	26.092	0.00	0.00
ATOM	2129	HG2	GLU	X	138	32.431	30.372	25.599	0.00	0.00
ATOM	2130	HG3	GLU	X	138	31.818	30.842	27.102	0.00	0.00
ATOM	2131	CD	GLU	X	138	30.421	29.477	26.178	0.00	0.00
ATOM	2132	OE1	GLU	X	138	29.326	29.696	26.759	0.00	0.00
ATOM	2133	OE2	GLU	X	138	30.620	28.522	25.364	0.00	0.00
ATOM	2134	C	GLU	X	138	29.061	32.975	23.913	0.00	0.00
ATOM	2135	O	GLU	X	138	28.052	32.881	24.590	0.00	0.00
ATOM	2136	N	ARG	X	139	29.071	33.949	22.984	0.00	0.00
ATOM	2137	H	ARG	X	139	29.886	34.187	22.436	0.00	0.00
ATOM	2138	CA	ARG	X	139	27.943	34.848	22.704	0.00	0.00
ATOM	2139	HA	ARG	X	139	28.388	35.436	21.901	0.00	0.00
ATOM	2140	CB	ARG	X	139	26.753	34.128	22.099	0.00	0.00
ATOM	2141	HB2	ARG	X	139	26.298	33.352	22.714	0.00	0.00
ATOM	2142	HB3	ARG	X	139	26.038	34.915	21.859	0.00	0.00
ATOM	2143	CG	ARG	X	139	27.168	33.455	20.788	0.00	0.00
ATOM	2144	HG2	ARG	X	139	27.737	34.053	20.077	0.00	0.00
ATOM	2145	HG3	ARG	X	139	27.837	32.646	21.084	0.00	0.00
ATOM	2146	CD	ARG	X	139	26.063	32.777	19.998	0.00	0.00
ATOM	2147	HD2	ARG	X	139	26.457	32.270	19.118	0.00	0.00
ATOM	2148	HD3	ARG	X	139	25.647	31.915	20.521	0.00	0.00
ATOM	2149	NE	ARG	X	139	25.042	33.793	19.516	0.00	0.00
ATOM	2150	HE	ARG	X	139	24.230	33.933	20.100	0.00	0.00
ATOM	2151	CZ	ARG	X	139	25.187	34.598	18.487	0.00	0.00
ATOM	2152	NH1	ARG	X	139	26.353	34.597	17.909	0.00	0.00
ATOM	2153	HH11	ARG	X	139	27.053	33.891	18.088	0.00	0.00
ATOM	2154	HH12	ARG	X	139	26.645	35.140	17.109	0.00	0.00
ATOM	2155	NH2	ARG	X	139	24.324	35.498	18.045	0.00	0.00

ATOM	2156	HH21	ARG	X	139	23.458	35.497	18.564	0.00	0.00
ATOM	2157	HH22	ARG	X	139	24.518	36.166	17.312	0.00	0.00
ATOM	2158	C	ARG	X	139	27.564	35.870	23.783	0.00	0.00
ATOM	2159	O	ARG	X	139	26.915	36.930	23.517	0.00	0.00
ATOM	2160	N	THR	X	140	27.938	35.764	25.084	0.00	0.00
ATOM	2161	H	THR	X	140	28.354	34.855	25.228	0.00	0.00
ATOM	2162	CA	THR	X	140	28.259	36.740	26.107	0.00	0.00
ATOM	2163	HA	THR	X	140	27.336	37.024	26.613	0.00	0.00
ATOM	2164	CB	THR	X	140	29.220	36.035	27.138	0.00	0.00
ATOM	2165	HB	THR	X	140	29.499	36.814	27.848	0.00	0.00
ATOM	2166	CG2	THR	X	140	28.378	35.041	27.981	0.00	0.00
ATOM	2167	HG21	THR	X	140	27.732	34.352	27.437	0.00	0.00
ATOM	2168	HG22	THR	X	140	27.790	35.581	28.723	0.00	0.00
ATOM	2169	HG23	THR	X	140	29.121	34.515	28.582	0.00	0.00
ATOM	2170	OG1	THR	X	140	30.284	35.392	26.572	0.00	0.00
ATOM	2171	HG1	THR	X	140	30.848	35.998	26.086	0.00	0.00
ATOM	2172	C	THR	X	140	28.963	37.912	25.552	0.00	0.00
ATOM	2173	O	THR	X	140	29.937	37.686	24.857	0.00	0.00
ATOM	2174	N	VAL	X	141	28.519	39.098	25.861	0.00	0.00
ATOM	2175	H	VAL	X	141	27.694	39.133	26.443	0.00	0.00
ATOM	2176	CA	VAL	X	141	28.996	40.372	25.333	0.00	0.00
ATOM	2177	HA	VAL	X	141	29.284	40.141	24.308	0.00	0.00
ATOM	2178	CB	VAL	X	141	27.854	41.429	25.190	0.00	0.00
ATOM	2179	HB	VAL	X	141	27.337	41.581	26.138	0.00	0.00
ATOM	2180	CG1	VAL	X	141	28.476	42.757	24.702	0.00	0.00
ATOM	2181	HG11	VAL	X	141	27.788	43.590	24.843	0.00	0.00
ATOM	2182	HG12	VAL	X	141	29.281	43.058	25.373	0.00	0.00
ATOM	2183	HG13	VAL	X	141	28.720	42.594	23.652	0.00	0.00
ATOM	2184	CG2	VAL	X	141	26.840	40.974	24.027	0.00	0.00
ATOM	2185	HG21	VAL	X	141	26.722	39.892	23.981	0.00	0.00
ATOM	2186	HG22	VAL	X	141	27.099	41.273	23.011	0.00	0.00
ATOM	2187	HG23	VAL	X	141	25.893	41.457	24.270	0.00	0.00
ATOM	2188	C	VAL	X	141	30.044	40.964	26.336	0.00	0.00
ATOM	2189	O	VAL	X	141	29.715	41.097	27.544	0.00	0.00
ATOM	2190	N	LEU	X	142	31.288	41.221	25.854	0.00	0.00
ATOM	2191	H	LEU	X	142	31.545	40.946	24.917	0.00	0.00
ATOM	2192	CA	LEU	X	142	32.390	41.673	26.708	0.00	0.00
ATOM	2193	HA	LEU	X	142	32.073	41.381	27.709	0.00	0.00
ATOM	2194	CB	LEU	X	142	33.739	41.003	26.335	0.00	0.00
ATOM	2195	HB2	LEU	X	142	33.587	39.923	26.346	0.00	0.00
ATOM	2196	HB3	LEU	X	142	34.059	41.412	25.377	0.00	0.00
ATOM	2197	CG	LEU	X	142	34.799	41.404	27.370	0.00	0.00
ATOM	2198	HG	LEU	X	142	34.449	42.152	28.082	0.00	0.00
ATOM	2199	CD1	LEU	X	142	35.178	40.129	28.184	0.00	0.00
ATOM	2200	HD11	LEU	X	142	35.719	39.441	27.534	0.00	0.00
ATOM	2201	HD12	LEU	X	142	34.271	39.668	28.576	0.00	0.00
ATOM	2202	HD13	LEU	X	142	35.722	40.468	29.065	0.00	0.00
ATOM	2203	CD2	LEU	X	142	36.027	42.113	26.871	0.00	0.00
ATOM	2204	HD21	LEU	X	142	36.484	41.498	26.095	0.00	0.00
ATOM	2205	HD22	LEU	X	142	35.750	43.068	26.424	0.00	0.00
ATOM	2206	HD23	LEU	X	142	36.671	42.255	27.739	0.00	0.00
ATOM	2207	C	LEU	X	142	32.432	43.180	26.724	0.00	0.00
ATOM	2208	O	LEU	X	142	32.612	43.778	25.696	0.00	0.00
ATOM	2209	N	VAL	X	143	32.373	43.799	27.894	0.00	0.00
ATOM	2210	H	VAL	X	143	32.227	43.190	28.686	0.00	0.00
ATOM	2211	CA	VAL	X	143	32.485	45.210	28.099	0.00	0.00
ATOM	2212	HA	VAL	X	143	32.298	45.704	27.145	0.00	0.00
ATOM	2213	CB	VAL	X	143	31.353	45.744	29.134	0.00	0.00
ATOM	2214	HB	VAL	X	143	31.290	45.123	30.027	0.00	0.00
ATOM	2215	CG1	VAL	X	143	31.479	47.184	29.561	0.00	0.00
ATOM	2216	HG11	VAL	X	143	32.401	47.378	30.110	0.00	0.00
ATOM	2217	HG12	VAL	X	143	31.593	47.826	28.688	0.00	0.00
ATOM	2218	HG13	VAL	X	143	30.623	47.588	30.102	0.00	0.00
ATOM	2219	CG2	VAL	X	143	30.012	45.585	28.360	0.00	0.00
ATOM	2220	HG21	VAL	X	143	29.132	45.969	28.876	0.00	0.00
ATOM	2221	HG22	VAL	X	143	29.840	44.534	28.123	0.00	0.00
ATOM	2222	HG23	VAL	X	143	30.076	46.242	27.493	0.00	0.00

ATOM	2223	C	VAL	X	143	33.893	45.439	28.721	0.00	0.00
ATOM	2224	O	VAL	X	143	34.417	44.511	29.327	0.00	0.00
ATOM	2225	N	SER	X	144	34.471	46.563	28.688	0.00	0.00
ATOM	2226	H	SER	X	144	34.182	47.236	27.992	0.00	0.00
ATOM	2227	CA	SER	X	144	35.678	46.997	29.349	0.00	0.00
ATOM	2228	HA	SER	X	144	35.781	46.456	30.289	0.00	0.00
ATOM	2229	CB	SER	X	144	36.886	46.446	28.496	0.00	0.00
ATOM	2230	HB2	SER	X	144	36.819	45.363	28.395	0.00	0.00
ATOM	2231	HB3	SER	X	144	36.774	47.047	27.594	0.00	0.00
ATOM	2232	OG	SER	X	144	38.140	46.722	29.140	0.00	0.00
ATOM	2233	HG	SER	X	144	38.863	46.207	28.777	0.00	0.00
ATOM	2234	C	SER	X	144	35.811	48.490	29.555	0.00	0.00
ATOM	2235	O	SER	X	144	35.343	49.339	28.750	0.00	0.00
ATOM	2236	N	MET	X	145	36.330	48.941	30.696	0.00	0.00
ATOM	2237	H	MET	X	145	36.787	48.233	31.252	0.00	0.00
ATOM	2238	CA	MET	X	145	36.466	50.376	31.076	0.00	0.00
ATOM	2239	HA	MET	X	145	36.204	50.922	30.170	0.00	0.00
ATOM	2240	CB	MET	X	145	35.645	50.535	32.341	0.00	0.00
ATOM	2241	HB2	MET	X	145	35.592	51.601	32.559	0.00	0.00
ATOM	2242	HB3	MET	X	145	34.604	50.319	32.102	0.00	0.00
ATOM	2243	CG	MET	X	145	35.994	49.638	33.504	0.00	0.00
ATOM	2244	HG2	MET	X	145	36.011	48.559	33.349	0.00	0.00
ATOM	2245	HG3	MET	X	145	37.028	49.954	33.643	0.00	0.00
ATOM	2246	SD	MET	X	145	35.034	49.974	35.122	0.00	0.00
ATOM	2247	CE	MET	X	145	33.571	49.133	34.579	0.00	0.00
ATOM	2248	HE1	MET	X	145	33.780	48.065	34.522	0.00	0.00
ATOM	2249	HE2	MET	X	145	32.739	49.284	35.267	0.00	0.00
ATOM	2250	HE3	MET	X	145	33.239	49.637	33.671	0.00	0.00
ATOM	2251	C	MET	X	145	37.967	50.670	31.189	0.00	0.00
ATOM	2252	O	MET	X	145	38.766	49.814	31.510	0.00	0.00
ATOM	2253	N	ASN	X	146	38.346	51.934	31.144	0.00	0.00
ATOM	2254	H	ASN	X	146	37.671	52.647	30.912	0.00	0.00
ATOM	2255	CA	ASN	X	146	39.655	52.453	31.438	0.00	0.00
ATOM	2256	HA	ASN	X	146	40.369	51.731	31.834	0.00	0.00
ATOM	2257	CB	ASN	X	146	40.282	53.034	30.139	0.00	0.00
ATOM	2258	HB2	ASN	X	146	39.983	52.412	29.295	0.00	0.00
ATOM	2259	HB3	ASN	X	146	39.939	54.067	30.084	0.00	0.00
ATOM	2260	CG	ASN	X	146	41.826	52.956	30.300	0.00	0.00
ATOM	2261	OD1	ASN	X	146	42.553	51.936	30.213	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.477	54.107	30.599	0.00	0.00
ATOM	2263	HD21	ASN	X	146	43.457	54.067	30.841	0.00	0.00
ATOM	2264	HD22	ASN	X	146	42.089	55.037	30.530	0.00	0.00
ATOM	2265	C	ASN	X	146	39.525	53.540	32.416	0.00	0.00
ATOM	2266	O	ASN	X	146	38.735	54.462	32.155	0.00	0.00
ATOM	2267	N	TYR	X	147	40.098	53.362	33.624	0.00	0.00
ATOM	2268	H	TYR	X	147	40.798	52.634	33.625	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.026	54.292	34.804	0.00	0.00
ATOM	2270	HA	TYR	X	147	39.564	55.245	34.546	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.159	53.703	35.899	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.202	54.364	36.765	0.00	0.00
ATOM	2273	HB3	TYR	X	147	38.169	53.756	35.445	0.00	0.00
ATOM	2274	CG	TYR	X	147	39.351	52.251	36.229	0.00	0.00
ATOM	2275	CD1	TYR	X	147	38.691	51.266	35.454	0.00	0.00
ATOM	2276	HD1	TYR	X	147	38.065	51.632	34.654	0.00	0.00
ATOM	2277	CE1	TYR	X	147	39.090	49.895	35.524	0.00	0.00
ATOM	2278	HE1	TYR	X	147	38.598	49.135	34.935	0.00	0.00
ATOM	2279	CZ	TYR	X	147	40.164	49.541	36.417	0.00	0.00
ATOM	2280	OH	TYR	X	147	40.417	48.205	36.476	0.00	0.00
ATOM	2281	HH	TYR	X	147	41.273	48.078	36.891	0.00	0.00
ATOM	2282	CE2	TYR	X	147	40.667	50.500	37.267	0.00	0.00
ATOM	2283	HE2	TYR	X	147	41.443	50.159	37.937	0.00	0.00
ATOM	2284	CD2	TYR	X	147	40.309	51.895	37.184	0.00	0.00
ATOM	2285	HD2	TYR	X	147	40.839	52.623	37.781	0.00	0.00
ATOM	2286	C	TYR	X	147	41.376	54.561	35.412	0.00	0.00
ATOM	2287	O	TYR	X	147	42.374	54.004	34.969	0.00	0.00
ATOM	2288	N	ARG	X	148	41.509	55.575	36.281	0.00	0.00
ATOM	2289	H	ARG	X	148	40.599	55.935	36.531	0.00	0.00

ATOM	2290	CA	ARG	X	148	42.800	56.088	36.740	0.00	0.00
ATOM	2291	HA	ARG	X	148	43.453	56.031	35.869	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.654	57.514	37.296	0.00	0.00
ATOM	2293	HB2	ARG	X	148	42.021	57.548	38.183	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.611	57.807	37.729	0.00	0.00
ATOM	2295	CG	ARG	X	148	42.156	58.460	36.255	0.00	0.00
ATOM	2296	HG2	ARG	X	148	42.942	58.586	35.511	0.00	0.00
ATOM	2297	HG3	ARG	X	148	41.276	58.199	35.667	0.00	0.00
ATOM	2298	CD	ARG	X	148	41.690	59.796	36.922	0.00	0.00
ATOM	2299	HD2	ARG	X	148	42.433	60.114	37.653	0.00	0.00
ATOM	2300	HD3	ARG	X	148	41.639	60.477	36.072	0.00	0.00
ATOM	2301	NE	ARG	X	148	40.301	59.653	37.519	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.779	58.790	37.457	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.695	60.578	38.303	0.00	0.00
ATOM	2304	NH1	ARG	X	148	40.361	61.656	38.747	0.00	0.00
ATOM	2305	HH11	ARG	X	148	41.311	61.832	38.453	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.864	62.145	39.479	0.00	0.00
ATOM	2307	NH2	ARG	X	148	38.425	60.412	38.616	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.907	59.654	38.194	0.00	0.00
ATOM	2309	HH22	ARG	X	148	38.051	61.070	39.284	0.00	0.00
ATOM	2310	C	ARG	X	148	43.488	55.176	37.719	0.00	0.00
ATOM	2311	O	ARG	X	148	42.960	54.561	38.641	0.00	0.00
ATOM	2312	N	VAL	X	149	44.782	55.049	37.622	0.00	0.00
ATOM	2313	H	VAL	X	149	45.218	55.625	36.916	0.00	0.00
ATOM	2314	CA	VAL	X	149	45.640	54.340	38.585	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.102	53.917	39.434	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.276	52.990	37.899	0.00	0.00
ATOM	2317	HB	VAL	X	149	46.914	52.453	38.601	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.341	51.980	37.345	0.00	0.00
ATOM	2319	HG11	VAL	X	149	44.877	52.265	36.401	0.00	0.00
ATOM	2320	HG12	VAL	X	149	45.875	51.040	37.206	0.00	0.00
ATOM	2321	HG13	VAL	X	149	44.475	51.832	37.991	0.00	0.00
ATOM	2322	CG2	VAL	X	149	47.300	53.332	36.788	0.00	0.00
ATOM	2323	HG21	VAL	X	149	48.142	53.803	37.296	0.00	0.00
ATOM	2324	HG22	VAL	X	149	46.854	53.989	36.041	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.539	52.403	36.270	0.00	0.00
ATOM	2326	C	VAL	X	149	46.741	55.228	39.148	0.00	0.00
ATOM	2327	O	VAL	X	149	46.718	56.420	38.890	0.00	0.00
ATOM	2328	N	GLY	X	150	47.638	54.715	39.998	0.00	0.00
ATOM	2329	H	GLY	X	150	47.547	53.748	40.276	0.00	0.00
ATOM	2330	CA	GLY	X	150	48.797	55.415	40.653	0.00	0.00
ATOM	2331	HA2	GLY	X	150	49.412	54.713	41.217	0.00	0.00
ATOM	2332	HA3	GLY	X	150	49.371	56.034	39.964	0.00	0.00
ATOM	2333	C	GLY	X	150	48.282	56.511	41.649	0.00	0.00
ATOM	2334	O	GLY	X	150	47.159	56.361	42.246	0.00	0.00
ATOM	2335	N	ALA	X	151	48.978	57.630	41.741	0.00	0.00
ATOM	2336	H	ALA	X	151	49.875	57.633	41.277	0.00	0.00
ATOM	2337	CA	ALA	X	151	48.493	58.746	42.528	0.00	0.00
ATOM	2338	HA	ALA	X	151	48.222	58.447	43.541	0.00	0.00
ATOM	2339	CB	ALA	X	151	49.694	59.723	42.635	0.00	0.00
ATOM	2340	HB1	ALA	X	151	49.281	60.672	42.976	0.00	0.00
ATOM	2341	HB2	ALA	X	151	50.096	59.932	41.644	0.00	0.00
ATOM	2342	HB3	ALA	X	151	50.475	59.416	43.332	0.00	0.00
ATOM	2343	C	ALA	X	151	47.211	59.394	41.978	0.00	0.00
ATOM	2344	O	ALA	X	151	46.196	59.507	42.705	0.00	0.00
ATOM	2345	N	PHE	X	152	47.112	59.626	40.677	0.00	0.00
ATOM	2346	H	PHE	X	152	47.920	59.412	40.111	0.00	0.00
ATOM	2347	CA	PHE	X	152	45.826	59.995	39.931	0.00	0.00
ATOM	2348	HA	PHE	X	152	45.616	61.043	40.146	0.00	0.00
ATOM	2349	CB	PHE	X	152	46.242	59.903	38.461	0.00	0.00
ATOM	2350	HB2	PHE	X	152	47.125	60.535	38.359	0.00	0.00
ATOM	2351	HB3	PHE	X	152	46.631	58.901	38.283	0.00	0.00
ATOM	2352	CG	PHE	X	152	45.416	60.467	37.320	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.863	60.064	36.041	0.00	0.00
ATOM	2354	HD1	PHE	X	152	46.593	59.290	35.860	0.00	0.00
ATOM	2355	CE1	PHE	X	152	45.312	60.769	34.952	0.00	0.00
ATOM	2356	HE1	PHE	X	152	45.538	60.409	33.959	0.00	0.00

ATOM	2357	CZ	PHE	X	152	44.294	61.811	35.133	0.00	0.00
ATOM	2358	HZ	PHE	X	152	43.794	62.320	34.323	0.00	0.00
ATOM	2359	CE2	PHE	X	152	43.865	62.189	36.436	0.00	0.00
ATOM	2360	HE2	PHE	X	152	43.027	62.859	36.554	0.00	0.00
ATOM	2361	CD2	PHE	X	152	44.480	61.516	37.574	0.00	0.00
ATOM	2362	HD2	PHE	X	152	44.244	61.859	38.571	0.00	0.00
ATOM	2363	C	PHE	X	152	44.560	59.135	40.145	0.00	0.00
ATOM	2364	O	PHE	X	152	43.491	59.600	39.804	0.00	0.00
ATOM	2365	N	GLY	X	153	44.806	57.905	40.704	0.00	0.00
ATOM	2366	H	GLY	X	153	45.730	57.529	40.863	0.00	0.00
ATOM	2367	CA	GLY	X	153	43.769	57.014	41.155	0.00	0.00
ATOM	2368	HA2	GLY	X	153	42.816	57.175	40.651	0.00	0.00
ATOM	2369	HA3	GLY	X	153	44.094	55.992	40.956	0.00	0.00
ATOM	2370	C	GLY	X	153	43.445	57.171	42.664	0.00	0.00
ATOM	2371	O	GLY	X	153	42.301	56.897	43.052	0.00	0.00
ATOM	2372	N	PHE	X	154	44.481	57.368	43.494	0.00	0.00
ATOM	2373	H	PHE	X	154	45.381	57.577	43.086	0.00	0.00
ATOM	2374	CA	PHE	X	154	44.455	56.842	44.901	0.00	0.00
ATOM	2375	HA	PHE	X	154	43.403	56.952	45.162	0.00	0.00
ATOM	2376	CB	PHE	X	154	44.851	55.343	44.827	0.00	0.00
ATOM	2377	HB2	PHE	X	154	45.616	55.279	44.053	0.00	0.00
ATOM	2378	HB3	PHE	X	154	45.140	54.973	45.811	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.850	54.316	44.328	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.865	53.973	42.948	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.659	54.271	42.280	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.807	53.294	42.405	0.00	0.00
ATOM	2383	HE1	PHE	X	154	42.720	53.095	41.347	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.677	52.879	43.173	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.816	52.365	42.772	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.589	53.419	44.472	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.696	53.110	44.994	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.728	54.014	45.121	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.678	54.289	46.164	0.00	0.00
ATOM	2390	C	PHE	X	154	45.218	57.669	45.972	0.00	0.00
ATOM	2391	O	PHE	X	154	45.199	57.345	47.134	0.00	0.00
ATOM	2392	N	LEU	X	155	45.697	58.812	45.546	0.00	0.00
ATOM	2393	H	LEU	X	155	45.382	59.082	44.625	0.00	0.00
ATOM	2394	CA	LEU	X	155	46.231	59.874	46.409	0.00	0.00
ATOM	2395	HA	LEU	X	155	46.915	59.464	47.153	0.00	0.00
ATOM	2396	CB	LEU	X	155	46.993	60.825	45.538	0.00	0.00
ATOM	2397	HB2	LEU	X	155	47.770	60.317	44.967	0.00	0.00
ATOM	2398	HB3	LEU	X	155	46.366	61.281	44.772	0.00	0.00
ATOM	2399	CG	LEU	X	155	47.681	61.955	46.371	0.00	0.00
ATOM	2400	HG	LEU	X	155	47.715	61.731	47.437	0.00	0.00
ATOM	2401	CD1	LEU	X	155	49.161	62.096	45.880	0.00	0.00
ATOM	2402	HD11	LEU	X	155	49.705	62.861	46.433	0.00	0.00
ATOM	2403	HD12	LEU	X	155	49.205	62.368	44.826	0.00	0.00
ATOM	2404	HD13	LEU	X	155	49.602	61.114	46.051	0.00	0.00
ATOM	2405	CD2	LEU	X	155	47.046	63.287	46.235	0.00	0.00
ATOM	2406	HD21	LEU	X	155	46.173	63.430	46.873	0.00	0.00
ATOM	2407	HD22	LEU	X	155	47.760	64.029	46.593	0.00	0.00
ATOM	2408	HD23	LEU	X	155	46.860	63.723	45.254	0.00	0.00
ATOM	2409	C	LEU	X	155	45.027	60.542	47.171	0.00	0.00
ATOM	2410	O	LEU	X	155	43.918	60.773	46.695	0.00	0.00
ATOM	2411	N	ALA	X	156	45.130	60.485	48.527	0.00	0.00
ATOM	2412	H	ALA	X	156	46.012	60.215	48.939	0.00	0.00
ATOM	2413	CA	ALA	X	156	44.064	60.934	49.386	0.00	0.00
ATOM	2414	HA	ALA	X	156	43.337	61.460	48.767	0.00	0.00
ATOM	2415	CB	ALA	X	156	43.376	59.776	49.946	0.00	0.00
ATOM	2416	HB1	ALA	X	156	43.116	59.104	49.128	0.00	0.00
ATOM	2417	HB2	ALA	X	156	42.385	60.071	50.293	0.00	0.00
ATOM	2418	HB3	ALA	X	156	43.968	59.208	50.663	0.00	0.00
ATOM	2419	C	ALA	X	156	44.686	61.887	50.458	0.00	0.00
ATOM	2420	O	ALA	X	156	45.790	61.630	50.863	0.00	0.00
ATOM	2421	N	LEU	X	157	43.928	62.953	50.812	0.00	0.00
ATOM	2422	H	LEU	X	157	43.128	63.101	50.214	0.00	0.00
ATOM	2423	CA	LEU	X	157	44.195	63.770	51.955	0.00	0.00

ATOM	2424	HA	LEU	X	157	44.789	63.238	52.698	0.00	0.00
ATOM	2425	CB	LEU	X	157	44.952	64.966	51.457	0.00	0.00
ATOM	2426	HB2	LEU	X	157	44.417	65.512	50.681	0.00	0.00
ATOM	2427	HB3	LEU	X	157	44.909	65.622	52.327	0.00	0.00
ATOM	2428	CG	LEU	X	157	46.360	64.798	50.898	0.00	0.00
ATOM	2429	HG	LEU	X	157	46.830	63.886	51.268	0.00	0.00
ATOM	2430	CD1	LEU	X	157	46.325	64.867	49.347	0.00	0.00
ATOM	2431	HD11	LEU	X	157	45.625	64.106	49.004	0.00	0.00
ATOM	2432	HD12	LEU	X	157	47.344	64.738	48.981	0.00	0.00
ATOM	2433	HD13	LEU	X	157	46.026	65.880	49.076	0.00	0.00
ATOM	2434	CD2	LEU	X	157	47.178	65.956	51.412	0.00	0.00
ATOM	2435	HD21	LEU	X	157	47.245	65.871	52.496	0.00	0.00
ATOM	2436	HD22	LEU	X	157	48.170	65.877	50.968	0.00	0.00
ATOM	2437	HD23	LEU	X	157	46.734	66.886	51.056	0.00	0.00
ATOM	2438	C	LEU	X	157	42.849	64.237	52.566	0.00	0.00
ATOM	2439	O	LEU	X	157	41.880	64.424	51.789	0.00	0.00
ATOM	2440	N	PRO	X	158	42.717	64.378	53.922	0.00	0.00
ATOM	2441	CD	PRO	X	158	43.936	64.182	54.850	0.00	0.00
ATOM	2442	HD2	PRO	X	158	44.642	64.977	54.610	0.00	0.00
ATOM	2443	HD3	PRO	X	158	44.288	63.164	54.682	0.00	0.00
ATOM	2444	CG	PRO	X	158	43.278	64.181	56.256	0.00	0.00
ATOM	2445	HG2	PRO	X	158	43.409	65.165	56.705	0.00	0.00
ATOM	2446	HG3	PRO	X	158	43.695	63.428	56.924	0.00	0.00
ATOM	2447	CB	PRO	X	158	41.797	63.850	56.029	0.00	0.00
ATOM	2448	HB2	PRO	X	158	41.183	64.198	56.860	0.00	0.00
ATOM	2449	HB3	PRO	X	158	41.741	62.781	55.821	0.00	0.00
ATOM	2450	CA	PRO	X	158	41.578	64.671	54.731	0.00	0.00
ATOM	2451	HA	PRO	X	158	40.642	64.312	54.304	0.00	0.00
ATOM	2452	C	PRO	X	158	41.294	66.181	54.999	0.00	0.00
ATOM	2453	O	PRO	X	158	42.221	67.056	54.780	0.00	0.00
ATOM	2454	N	GLY	X	159	40.101	66.519	55.585	0.00	0.00
ATOM	2455	H	GLY	X	159	39.488	65.735	55.760	0.00	0.00
ATOM	2456	CA	GLY	X	159	39.576	67.828	56.129	0.00	0.00
ATOM	2457	HA2	GLY	X	159	39.116	67.698	57.108	0.00	0.00
ATOM	2458	HA3	GLY	X	159	40.350	68.564	56.345	0.00	0.00
ATOM	2459	C	GLY	X	159	38.629	68.454	55.170	0.00	0.00
ATOM	2460	O	GLY	X	159	38.100	69.537	55.443	0.00	0.00
ATOM	2461	N	SER	X	160	38.355	67.788	54.074	0.00	0.00
ATOM	2462	H	SER	X	160	38.615	66.833	53.874	0.00	0.00
ATOM	2463	CA	SER	X	160	37.696	68.399	52.855	0.00	0.00
ATOM	2464	HA	SER	X	160	36.779	68.888	53.185	0.00	0.00
ATOM	2465	CB	SER	X	160	38.628	69.535	52.305	0.00	0.00
ATOM	2466	HB2	SER	X	160	37.993	69.975	51.536	0.00	0.00
ATOM	2467	HB3	SER	X	160	38.779	70.284	53.082	0.00	0.00
ATOM	2468	OG	SER	X	160	39.825	69.080	51.710	0.00	0.00
ATOM	2469	HG	SER	X	160	40.651	69.355	52.115	0.00	0.00
ATOM	2470	C	SER	X	160	37.479	67.322	51.819	0.00	0.00
ATOM	2471	O	SER	X	160	37.827	66.158	52.055	0.00	0.00
ATOM	2472	N	ARG	X	161	36.866	67.719	50.714	0.00	0.00
ATOM	2473	H	ARG	X	161	36.616	68.690	50.593	0.00	0.00
ATOM	2474	CA	ARG	X	161	36.490	66.805	49.593	0.00	0.00
ATOM	2475	HA	ARG	X	161	36.617	65.746	49.820	0.00	0.00
ATOM	2476	CB	ARG	X	161	35.022	67.046	49.175	0.00	0.00
ATOM	2477	HB2	ARG	X	161	34.506	66.995	50.134	0.00	0.00
ATOM	2478	HB3	ARG	X	161	34.768	68.054	48.850	0.00	0.00
ATOM	2479	CG	ARG	X	161	34.351	66.048	48.186	0.00	0.00
ATOM	2480	HG2	ARG	X	161	33.285	66.275	48.201	0.00	0.00
ATOM	2481	HG3	ARG	X	161	34.709	66.136	47.160	0.00	0.00
ATOM	2482	CD	ARG	X	161	34.498	64.581	48.680	0.00	0.00
ATOM	2483	HD2	ARG	X	161	34.008	63.833	48.056	0.00	0.00
ATOM	2484	HD3	ARG	X	161	35.571	64.394	48.720	0.00	0.00
ATOM	2485	NE	ARG	X	161	33.947	64.334	50.063	0.00	0.00
ATOM	2486	HE	ARG	X	161	33.569	65.086	50.621	0.00	0.00
ATOM	2487	CZ	ARG	X	161	33.568	63.139	50.526	0.00	0.00
ATOM	2488	NH1	ARG	X	161	33.839	62.058	49.884	0.00	0.00
ATOM	2489	HH11	ARG	X	161	34.449	62.171	49.087	0.00	0.00
ATOM	2490	HH12	ARG	X	161	33.522	61.184	50.278	0.00	0.00

ATOM	2491	NH2	ARG	X	161	32.823	63.129	51.604	0.00	0.00
ATOM	2492	HH21	ARG	X	161	32.584	63.975	52.101	0.00	0.00
ATOM	2493	HH22	ARG	X	161	32.369	62.286	51.925	0.00	0.00
ATOM	2494	C	ARG	X	161	37.490	66.992	48.406	0.00	0.00
ATOM	2495	O	ARG	X	161	37.108	66.540	47.311	0.00	0.00
ATOM	2496	N	GLU	X	162	38.652	67.646	48.526	0.00	0.00
ATOM	2497	H	GLU	X	162	38.870	68.018	49.440	0.00	0.00
ATOM	2498	CA	GLU	X	162	39.449	68.127	47.359	0.00	0.00
ATOM	2499	HA	GLU	X	162	38.855	68.351	46.474	0.00	0.00
ATOM	2500	CB	GLU	X	162	40.147	69.422	47.853	0.00	0.00
ATOM	2501	HB2	GLU	X	162	40.847	69.126	48.634	0.00	0.00
ATOM	2502	HB3	GLU	X	162	40.643	69.827	46.971	0.00	0.00
ATOM	2503	CG	GLU	X	162	39.308	70.602	48.310	0.00	0.00
ATOM	2504	HG2	GLU	X	162	39.056	70.481	49.363	0.00	0.00
ATOM	2505	HG3	GLU	X	162	39.891	71.520	48.231	0.00	0.00
ATOM	2506	CD	GLU	X	162	37.989	70.804	47.521	0.00	0.00
ATOM	2507	OE1	GLU	X	162	37.041	70.041	47.756	0.00	0.00
ATOM	2508	OE2	GLU	X	162	37.933	71.726	46.679	0.00	0.00
ATOM	2509	C	GLU	X	162	40.528	67.073	46.858	0.00	0.00
ATOM	2510	O	GLU	X	162	40.876	67.143	45.647	0.00	0.00
ATOM	2511	N	ALA	X	163	41.084	66.180	47.643	0.00	0.00
ATOM	2512	H	ALA	X	163	40.752	66.264	48.593	0.00	0.00
ATOM	2513	CA	ALA	X	163	41.727	64.951	47.144	0.00	0.00
ATOM	2514	HA	ALA	X	163	41.556	64.781	46.081	0.00	0.00
ATOM	2515	CB	ALA	X	163	43.259	65.084	47.203	0.00	0.00
ATOM	2516	HB1	ALA	X	163	43.692	65.179	48.199	0.00	0.00
ATOM	2517	HB2	ALA	X	163	43.570	65.908	46.561	0.00	0.00
ATOM	2518	HB3	ALA	X	163	43.724	64.190	46.787	0.00	0.00
ATOM	2519	C	ALA	X	163	41.121	63.760	47.969	0.00	0.00
ATOM	2520	O	ALA	X	163	41.783	63.367	48.920	0.00	0.00
ATOM	2521	N	PRO	X	164	39.939	63.259	47.593	0.00	0.00
ATOM	2522	CD	PRO	X	164	39.117	63.722	46.495	0.00	0.00
ATOM	2523	HD2	PRO	X	164	39.641	63.549	45.554	0.00	0.00
ATOM	2524	HD3	PRO	X	164	38.912	64.775	46.685	0.00	0.00
ATOM	2525	CG	PRO	X	164	37.776	62.987	46.595	0.00	0.00
ATOM	2526	HG2	PRO	X	164	37.754	62.129	45.923	0.00	0.00
ATOM	2527	HG3	PRO	X	164	36.891	63.544	46.288	0.00	0.00
ATOM	2528	CB	PRO	X	164	37.650	62.569	48.041	0.00	0.00
ATOM	2529	HB2	PRO	X	164	37.069	61.653	48.153	0.00	0.00
ATOM	2530	HB3	PRO	X	164	37.321	63.376	48.695	0.00	0.00
ATOM	2531	CA	PRO	X	164	39.135	62.338	48.461	0.00	0.00
ATOM	2532	HA	PRO	X	164	39.173	62.625	49.512	0.00	0.00
ATOM	2533	C	PRO	X	164	39.640	60.925	48.503	0.00	0.00
ATOM	2534	O	PRO	X	164	39.065	60.175	49.283	0.00	0.00
ATOM	2535	N	GLY	X	165	40.615	60.453	47.713	0.00	0.00
ATOM	2536	H	GLY	X	165	41.024	61.104	47.059	0.00	0.00
ATOM	2537	CA	GLY	X	165	41.034	59.066	47.635	0.00	0.00
ATOM	2538	HA2	GLY	X	165	41.987	58.983	47.113	0.00	0.00
ATOM	2539	HA3	GLY	X	165	41.158	58.728	48.664	0.00	0.00
ATOM	2540	C	GLY	X	165	40.035	58.253	46.797	0.00	0.00
ATOM	2541	O	GLY	X	165	39.014	58.764	46.414	0.00	0.00
ATOM	2542	N	ASN	X	166	40.265	57.012	46.464	0.00	0.00
ATOM	2543	H	ASN	X	166	41.103	56.599	46.847	0.00	0.00
ATOM	2544	CA	ASN	X	166	39.348	56.031	45.809	0.00	0.00
ATOM	2545	HA	ASN	X	166	39.976	55.196	45.498	0.00	0.00
ATOM	2546	CB	ASN	X	166	38.241	55.648	46.781	0.00	0.00
ATOM	2547	HB2	ASN	X	166	37.579	56.506	46.897	0.00	0.00
ATOM	2548	HB3	ASN	X	166	37.666	54.848	46.315	0.00	0.00
ATOM	2549	CG	ASN	X	166	38.818	55.134	48.104	0.00	0.00
ATOM	2550	OD1	ASN	X	166	39.764	54.364	48.121	0.00	0.00
ATOM	2551	ND2	ASN	X	166	38.305	55.551	49.267	0.00	0.00
ATOM	2552	HD21	ASN	X	166	38.794	55.264	50.103	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.486	56.138	49.336	0.00	0.00
ATOM	2554	C	ASN	X	166	38.796	56.360	44.501	0.00	0.00
ATOM	2555	O	ASN	X	166	37.918	55.580	44.036	0.00	0.00
ATOM	2556	N	VAL	X	167	39.077	57.537	43.916	0.00	0.00
ATOM	2557	H	VAL	X	167	39.528	58.281	44.428	0.00	0.00

ATOM	2558	CA	VAL	X	167	38.521	57.953	42.664	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.443	58.005	42.820	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.898	59.390	42.280	0.00	0.00
ATOM	2561	HB	VAL	X	167	38.438	59.724	41.350	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.308	60.351	43.346	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.735	60.072	44.310	0.00	0.00
ATOM	2564	HG12	VAL	X	167	38.626	61.388	43.244	0.00	0.00
ATOM	2565	HG13	VAL	X	167	37.224	60.461	43.347	0.00	0.00
ATOM	2566	CG2	VAL	X	167	40.434	59.580	42.156	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.817	58.959	41.347	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.980	59.499	43.096	0.00	0.00
ATOM	2569	HG23	VAL	X	167	40.577	60.605	41.814	0.00	0.00
ATOM	2570	C	VAL	X	167	38.825	57.081	41.452	0.00	0.00
ATOM	2571	O	VAL	X	167	37.971	57.104	40.590	0.00	0.00
ATOM	2572	N	GLY	X	168	39.863	56.216	41.495	0.00	0.00
ATOM	2573	H	GLY	X	168	40.557	56.321	42.221	0.00	0.00
ATOM	2574	CA	GLY	X	168	40.023	55.328	40.349	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.850	55.863	39.414	0.00	0.00
ATOM	2576	HA3	GLY	X	168	41.025	54.904	40.410	0.00	0.00
ATOM	2577	C	GLY	X	168	38.993	54.216	40.420	0.00	0.00
ATOM	2578	O	GLY	X	168	38.851	53.460	39.455	0.00	0.00
ATOM	2579	N	LEU	X	169	38.320	54.002	41.561	0.00	0.00
ATOM	2580	H	LEU	X	169	38.666	54.500	42.368	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.270	53.070	41.795	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.209	52.305	41.021	0.00	0.00
ATOM	2583	CB	LEU	X	169	37.417	52.454	43.182	0.00	0.00
ATOM	2584	HB2	LEU	X	169	38.325	52.840	43.645	0.00	0.00
ATOM	2585	HB3	LEU	X	169	36.605	52.688	43.870	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.448	50.892	43.087	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.114	50.622	42.268	0.00	0.00
ATOM	2588	CD1	LEU	X	169	38.061	50.420	44.434	0.00	0.00
ATOM	2589	HD11	LEU	X	169	37.681	50.946	45.310	0.00	0.00
ATOM	2590	HD12	LEU	X	169	39.143	50.492	44.323	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.816	49.384	44.669	0.00	0.00
ATOM	2592	CD2	LEU	X	169	36.029	50.352	43.000	0.00	0.00
ATOM	2593	HD21	LEU	X	169	35.698	50.287	41.964	0.00	0.00
ATOM	2594	HD22	LEU	X	169	36.050	49.343	43.413	0.00	0.00
ATOM	2595	HD23	LEU	X	169	35.405	50.989	43.626	0.00	0.00
ATOM	2596	C	LEU	X	169	35.921	53.757	41.649	0.00	0.00
ATOM	2597	O	LEU	X	169	34.951	53.076	41.193	0.00	0.00
ATOM	2598	N	LEU	X	170	35.780	55.092	41.995	0.00	0.00
ATOM	2599	H	LEU	X	170	36.484	55.471	42.612	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.482	55.891	41.649	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.638	55.277	41.962	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.272	57.273	42.232	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.133	57.884	41.961	0.00	0.00
ATOM	2604	HB3	LEU	X	170	33.363	57.657	41.769	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.843	57.145	43.738	0.00	0.00
ATOM	2606	HG	LEU	X	170	34.676	56.650	44.238	0.00	0.00
ATOM	2607	CD1	LEU	X	170	33.751	58.552	44.213	0.00	0.00
ATOM	2608	HD11	LEU	X	170	34.612	59.141	43.899	0.00	0.00
ATOM	2609	HD12	LEU	X	170	33.723	58.553	45.303	0.00	0.00
ATOM	2610	HD13	LEU	X	170	32.878	59.123	43.895	0.00	0.00
ATOM	2611	CD2	LEU	X	170	32.558	56.430	43.994	0.00	0.00
ATOM	2612	HD21	LEU	X	170	31.716	56.612	43.325	0.00	0.00
ATOM	2613	HD22	LEU	X	170	32.725	55.356	43.920	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.376	56.705	45.033	0.00	0.00
ATOM	2615	C	LEU	X	170	34.262	55.947	40.160	0.00	0.00
ATOM	2616	O	LEU	X	170	33.097	55.795	39.753	0.00	0.00
ATOM	2617	N	ASP	X	171	35.307	55.963	39.356	0.00	0.00
ATOM	2618	H	ASP	X	171	36.206	56.034	39.809	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.265	55.873	37.837	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.884	56.740	37.297	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.706	55.732	37.355	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.242	54.943	37.882	0.00	0.00
ATOM	2623	HB3	ASP	X	171	36.669	55.453	36.302	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.621	57.014	37.428	0.00	0.00

ATOM	2625	OD1	ASP	X	171	37.074	58.110	37.322	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.841	56.841	37.428	0.00	0.00
ATOM	2627	C	ASP	X	171	34.422	54.776	37.295	0.00	0.00
ATOM	2628	O	ASP	X	171	33.600	54.994	36.435	0.00	0.00
ATOM	2629	N	GLN	X	172	34.562	53.673	37.931	0.00	0.00
ATOM	2630	H	GLN	X	172	35.279	53.709	38.642	0.00	0.00
ATOM	2631	CA	GLN	X	172	33.912	52.414	37.671	0.00	0.00
ATOM	2632	HA	GLN	X	172	34.021	52.215	36.605	0.00	0.00
ATOM	2633	CB	GLN	X	172	34.644	51.169	38.428	0.00	0.00
ATOM	2634	HB2	GLN	X	172	34.163	51.103	39.404	0.00	0.00
ATOM	2635	HB3	GLN	X	172	34.515	50.252	37.853	0.00	0.00
ATOM	2636	CG	GLN	X	172	36.199	51.356	38.403	0.00	0.00
ATOM	2637	HG2	GLN	X	172	36.566	51.440	37.380	0.00	0.00
ATOM	2638	HG3	GLN	X	172	36.411	52.270	38.959	0.00	0.00
ATOM	2639	CD	GLN	X	172	36.876	50.265	39.084	0.00	0.00
ATOM	2640	OE1	GLN	X	172	36.395	49.265	39.576	0.00	0.00
ATOM	2641	NE2	GLN	X	172	38.146	50.371	39.251	0.00	0.00
ATOM	2642	HE21	GLN	X	172	38.620	49.632	39.749	0.00	0.00
ATOM	2643	HE22	GLN	X	172	38.690	51.208	39.097	0.00	0.00
ATOM	2644	C	GLN	X	172	32.393	52.369	38.000	0.00	0.00
ATOM	2645	O	GLN	X	172	31.661	51.745	37.241	0.00	0.00
ATOM	2646	N	ARG	X	173	31.992	52.922	39.185	0.00	0.00
ATOM	2647	H	ARG	X	173	32.741	53.365	39.698	0.00	0.00
ATOM	2648	CA	ARG	X	173	30.625	53.070	39.582	0.00	0.00
ATOM	2649	HA	ARG	X	173	30.116	52.107	39.624	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.621	53.417	41.141	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.102	52.629	41.721	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.159	54.359	41.245	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.204	53.788	41.603	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.857	54.701	41.120	0.00	0.00
ATOM	2655	HG3	ARG	X	173	28.500	53.009	41.314	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.075	53.999	43.151	0.00	0.00
ATOM	2657	HD2	ARG	X	173	29.780	54.791	43.402	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.076	54.353	43.402	0.00	0.00
ATOM	2659	NE	ARG	X	173	29.334	52.841	44.002	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.259	51.970	43.495	0.00	0.00
ATOM	2661	CZ	ARG	X	173	29.842	52.883	45.234	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.912	53.948	45.964	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.548	54.837	45.653	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.333	53.901	46.880	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.257	51.744	45.754	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.204	50.943	45.141	0.00	0.00
ATOM	2667	HH22	ARG	X	173	30.819	51.719	46.593	0.00	0.00
ATOM	2668	C	ARG	X	173	29.838	54.018	38.662	0.00	0.00
ATOM	2669	O	ARG	X	173	28.730	53.773	38.237	0.00	0.00
ATOM	2670	N	LEU	X	174	30.501	55.068	38.163	0.00	0.00
ATOM	2671	H	LEU	X	174	31.479	55.151	38.401	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.962	55.983	37.154	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.989	56.366	37.461	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.912	57.117	36.942	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.018	57.614	37.906	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.912	56.767	36.684	0.00	0.00
ATOM	2677	CG	LEU	X	174	30.361	58.183	36.007	0.00	0.00
ATOM	2678	HG	LEU	X	174	30.126	57.745	35.037	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.062	58.846	36.467	0.00	0.00
ATOM	2680	HD11	LEU	X	174	28.236	58.142	36.563	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.682	59.588	35.765	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.274	59.302	37.434	0.00	0.00
ATOM	2683	CD2	LEU	X	174	31.471	59.215	35.803	0.00	0.00
ATOM	2684	HD21	LEU	X	174	30.910	59.988	35.276	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.837	59.638	36.738	0.00	0.00
ATOM	2686	HD23	LEU	X	174	32.263	58.668	35.292	0.00	0.00
ATOM	2687	C	LEU	X	174	29.674	55.240	35.836	0.00	0.00
ATOM	2688	O	LEU	X	174	28.558	55.216	35.323	0.00	0.00
ATOM	2689	N	ALA	X	175	30.669	54.591	35.256	0.00	0.00
ATOM	2690	H	ALA	X	175	31.603	54.545	35.638	0.00	0.00
ATOM	2691	CA	ALA	X	175	30.493	53.792	34.011	0.00	0.00

ATOM	2692	HA	ALA	X	175	30.283	54.437	33.157	0.00	0.00
ATOM	2693	CB	ALA	X	175	31.811	52.973	33.815	0.00	0.00
ATOM	2694	HB1	ALA	X	175	31.806	52.277	32.976	0.00	0.00
ATOM	2695	HB2	ALA	X	175	31.910	52.342	34.698	0.00	0.00
ATOM	2696	HB3	ALA	X	175	32.638	53.683	33.823	0.00	0.00
ATOM	2697	C	ALA	X	175	29.320	52.749	34.299	0.00	0.00
ATOM	2698	O	ALA	X	175	28.479	52.549	33.389	0.00	0.00
ATOM	2699	N	LEU	X	176	29.349	51.987	35.375	0.00	0.00
ATOM	2700	H	LEU	X	176	30.168	52.127	35.949	0.00	0.00
ATOM	2701	CA	LEU	X	176	28.337	50.896	35.672	0.00	0.00
ATOM	2702	HA	LEU	X	176	28.404	50.162	34.868	0.00	0.00
ATOM	2703	CB	LEU	X	176	28.654	50.133	36.879	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.866	50.918	37.606	0.00	0.00
ATOM	2705	HB3	LEU	X	176	27.783	49.570	37.214	0.00	0.00
ATOM	2706	CG	LEU	X	176	29.764	49.150	36.814	0.00	0.00
ATOM	2707	HG	LEU	X	176	30.560	49.712	36.326	0.00	0.00
ATOM	2708	CD1	LEU	X	176	30.244	48.812	38.213	0.00	0.00
ATOM	2709	HD11	LEU	X	176	29.375	48.432	38.752	0.00	0.00
ATOM	2710	HD12	LEU	X	176	30.561	49.713	38.737	0.00	0.00
ATOM	2711	HD13	LEU	X	176	31.080	48.121	38.104	0.00	0.00
ATOM	2712	CD2	LEU	X	176	29.254	47.960	35.906	0.00	0.00
ATOM	2713	HD21	LEU	X	176	29.947	47.119	35.868	0.00	0.00
ATOM	2714	HD22	LEU	X	176	28.256	47.546	36.053	0.00	0.00
ATOM	2715	HD23	LEU	X	176	29.336	48.289	34.870	0.00	0.00
ATOM	2716	C	LEU	X	176	26.932	51.390	35.791	0.00	0.00
ATOM	2717	O	LEU	X	176	26.004	50.707	35.338	0.00	0.00
ATOM	2718	N	GLN	X	177	26.682	52.651	36.176	0.00	0.00
ATOM	2719	H	GLN	X	177	27.481	53.107	36.595	0.00	0.00
ATOM	2720	CA	GLN	X	177	25.449	53.387	35.905	0.00	0.00
ATOM	2721	HA	GLN	X	177	24.603	52.815	36.285	0.00	0.00
ATOM	2722	CB	GLN	X	177	25.567	54.738	36.586	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.404	55.335	36.223	0.00	0.00
ATOM	2724	HB3	GLN	X	177	24.661	55.310	36.384	0.00	0.00
ATOM	2725	CG	GLN	X	177	25.616	54.577	38.146	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.565	54.427	38.395	0.00	0.00
ATOM	2727	HG3	GLN	X	177	26.174	53.754	38.592	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.976	55.865	38.874	0.00	0.00
ATOM	2729	OE1	GLN	X	177	26.124	56.953	38.389	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.931	55.914	40.208	0.00	0.00
ATOM	2731	HE21	GLN	X	177	26.123	56.829	40.592	0.00	0.00
ATOM	2732	HE22	GLN	X	177	25.796	55.060	40.729	0.00	0.00
ATOM	2733	C	GLN	X	177	25.136	53.604	34.369	0.00	0.00
ATOM	2734	O	GLN	X	177	24.097	53.372	33.891	0.00	0.00
ATOM	2735	N	TRP	X	178	26.112	54.090	33.600	0.00	0.00
ATOM	2736	H	TRP	X	178	27.016	54.415	33.912	0.00	0.00
ATOM	2737	CA	TRP	X	178	25.899	54.251	32.168	0.00	0.00
ATOM	2738	HA	TRP	X	178	25.060	54.907	31.935	0.00	0.00
ATOM	2739	CB	TRP	X	178	27.198	54.887	31.636	0.00	0.00
ATOM	2740	HB2	TRP	X	178	27.270	55.761	32.283	0.00	0.00
ATOM	2741	HB3	TRP	X	178	28.053	54.227	31.786	0.00	0.00
ATOM	2742	CG	TRP	X	178	27.245	55.321	30.198	0.00	0.00
ATOM	2743	CD1	TRP	X	178	27.141	56.616	29.832	0.00	0.00
ATOM	2744	HD1	TRP	X	178	27.081	57.388	30.585	0.00	0.00
ATOM	2745	NE1	TRP	X	178	27.192	56.731	28.472	0.00	0.00
ATOM	2746	HE1	TRP	X	178	27.349	57.589	27.964	0.00	0.00
ATOM	2747	CE2	TRP	X	178	27.348	55.574	27.864	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	27.490	55.296	26.518	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	27.616	56.130	25.843	0.00	0.00
ATOM	2750	CH2	TRP	X	178	27.481	53.932	26.141	0.00	0.00
ATOM	2751	HH2	TRP	X	178	27.464	53.708	25.084	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	27.357	52.942	27.178	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	27.344	51.871	27.041	0.00	0.00
ATOM	2754	CE3	TRP	X	178	27.312	53.279	28.524	0.00	0.00
ATOM	2755	HE3	TRP	X	178	27.171	52.538	29.297	0.00	0.00
ATOM	2756	CD2	TRP	X	178	27.275	54.669	28.918	0.00	0.00
ATOM	2757	C	TRP	X	178	25.613	52.930	31.451	0.00	0.00
ATOM	2758	O	TRP	X	178	24.962	52.957	30.367	0.00	0.00

ATOM	2759	N	VAL	X	179	26.086	51.784	32.042	0.00	0.00
ATOM	2760	H	VAL	X	179	26.675	51.993	32.835	0.00	0.00
ATOM	2761	CA	VAL	X	179	26.102	50.492	31.363	0.00	0.00
ATOM	2762	HA	VAL	X	179	26.207	50.595	30.283	0.00	0.00
ATOM	2763	CB	VAL	X	179	27.296	49.685	31.790	0.00	0.00
ATOM	2764	HB	VAL	X	179	27.650	49.950	32.787	0.00	0.00
ATOM	2765	CG1	VAL	X	179	27.040	48.216	31.763	0.00	0.00
ATOM	2766	HG11	VAL	X	179	27.908	47.605	32.012	0.00	0.00
ATOM	2767	HG12	VAL	X	179	26.271	47.971	32.497	0.00	0.00
ATOM	2768	HG13	VAL	X	179	26.573	47.858	30.845	0.00	0.00
ATOM	2769	CG2	VAL	X	179	28.478	49.983	30.845	0.00	0.00
ATOM	2770	HG21	VAL	X	179	28.803	51.003	31.047	0.00	0.00
ATOM	2771	HG22	VAL	X	179	28.125	49.837	29.824	0.00	0.00
ATOM	2772	HG23	VAL	X	179	29.286	49.286	31.067	0.00	0.00
ATOM	2773	C	VAL	X	179	24.702	49.861	31.582	0.00	0.00
ATOM	2774	O	VAL	X	179	24.008	49.469	30.616	0.00	0.00
ATOM	2775	N	GLN	X	180	24.203	49.944	32.832	0.00	0.00
ATOM	2776	H	GLN	X	180	24.822	50.238	33.575	0.00	0.00
ATOM	2777	CA	GLN	X	180	22.805	49.645	33.136	0.00	0.00
ATOM	2778	HA	GLN	X	180	22.516	48.636	32.843	0.00	0.00
ATOM	2779	CB	GLN	X	180	22.635	50.018	34.647	0.00	0.00
ATOM	2780	HB2	GLN	X	180	23.270	50.891	34.799	0.00	0.00
ATOM	2781	HB3	GLN	X	180	21.567	50.165	34.804	0.00	0.00
ATOM	2782	CG	GLN	X	180	23.136	48.867	35.541	0.00	0.00
ATOM	2783	HG2	GLN	X	180	24.138	48.491	35.333	0.00	0.00
ATOM	2784	HG3	GLN	X	180	23.108	49.216	36.573	0.00	0.00
ATOM	2785	CD	GLN	X	180	22.201	47.661	35.575	0.00	0.00
ATOM	2786	OE1	GLN	X	180	21.014	47.775	35.284	0.00	0.00
ATOM	2787	NE2	GLN	X	180	22.643	46.470	35.854	0.00	0.00
ATOM	2788	HE21	GLN	X	180	22.086	45.679	35.563	0.00	0.00
ATOM	2789	HE22	GLN	X	180	23.634	46.450	36.050	0.00	0.00
ATOM	2790	C	GLN	X	180	21.895	50.524	32.281	0.00	0.00
ATOM	2791	O	GLN	X	180	20.841	49.993	31.858	0.00	0.00
ATOM	2792	N	GLU	X	181	22.179	51.798	31.977	0.00	0.00
ATOM	2793	H	GLU	X	181	22.958	52.298	32.379	0.00	0.00
ATOM	2794	CA	GLU	X	181	21.342	52.693	31.141	0.00	0.00
ATOM	2795	HA	GLU	X	181	20.291	52.505	31.364	0.00	0.00
ATOM	2796	CB	GLU	X	181	21.773	54.177	31.366	0.00	0.00
ATOM	2797	HB2	GLU	X	181	21.552	54.528	32.374	0.00	0.00
ATOM	2798	HB3	GLU	X	181	22.850	54.112	31.217	0.00	0.00
ATOM	2799	CG	GLU	X	181	21.356	55.205	30.385	0.00	0.00
ATOM	2800	HG2	GLU	X	181	21.424	55.035	29.311	0.00	0.00
ATOM	2801	HG3	GLU	X	181	20.288	55.274	30.595	0.00	0.00
ATOM	2802	CD	GLU	X	181	22.133	56.517	30.715	0.00	0.00
ATOM	2803	OE1	GLU	X	181	21.735	57.292	31.597	0.00	0.00
ATOM	2804	OE2	GLU	X	181	23.111	56.910	29.979	0.00	0.00
ATOM	2805	C	GLU	X	181	21.308	52.330	29.636	0.00	0.00
ATOM	2806	O	GLU	X	181	20.295	52.565	28.963	0.00	0.00
ATOM	2807	N	ASN	X	182	22.433	51.806	29.100	0.00	0.00
ATOM	2808	H	ASN	X	182	23.228	51.572	29.676	0.00	0.00
ATOM	2809	CA	ASN	X	182	22.664	51.813	27.622	0.00	0.00
ATOM	2810	HA	ASN	X	182	21.710	52.127	27.199	0.00	0.00
ATOM	2811	CB	ASN	X	182	23.775	52.785	27.223	0.00	0.00
ATOM	2812	HB2	ASN	X	182	24.772	52.524	27.577	0.00	0.00
ATOM	2813	HB3	ASN	X	182	23.772	52.651	26.141	0.00	0.00
ATOM	2814	CG	ASN	X	182	23.461	54.226	27.598	0.00	0.00
ATOM	2815	OD1	ASN	X	182	22.526	54.814	26.965	0.00	0.00
ATOM	2816	ND2	ASN	X	182	24.149	54.771	28.586	0.00	0.00
ATOM	2817	HD21	ASN	X	182	23.981	55.711	28.917	0.00	0.00
ATOM	2818	HD22	ASN	X	182	24.860	54.247	29.076	0.00	0.00
ATOM	2819	C	ASN	X	182	22.988	50.444	26.979	0.00	0.00
ATOM	2820	O	ASN	X	182	22.801	50.322	25.767	0.00	0.00
ATOM	2821	N	VAL	X	183	23.422	49.434	27.678	0.00	0.00
ATOM	2822	H	VAL	X	183	23.296	49.473	28.680	0.00	0.00
ATOM	2823	CA	VAL	X	183	23.886	48.165	27.148	0.00	0.00
ATOM	2824	HA	VAL	X	183	24.565	48.495	26.362	0.00	0.00
ATOM	2825	CB	VAL	X	183	24.726	47.305	28.131	0.00	0.00

ATOM	2826	HB	VAL	X	183	25.326	48.108	28.560	0.00	0.00
ATOM	2827	CG1	VAL	X	183	24.030	46.558	29.249	0.00	0.00
ATOM	2828	HG11	VAL	X	183	24.566	46.626	30.196	0.00	0.00
ATOM	2829	HG12	VAL	X	183	23.036	46.960	29.448	0.00	0.00
ATOM	2830	HG13	VAL	X	183	23.872	45.517	28.969	0.00	0.00
ATOM	2831	CG2	VAL	X	183	25.726	46.384	27.441	0.00	0.00
ATOM	2832	HG21	VAL	X	183	26.280	46.938	26.684	0.00	0.00
ATOM	2833	HG22	VAL	X	183	25.302	45.515	26.938	0.00	0.00
ATOM	2834	HG23	VAL	X	183	26.346	45.945	28.222	0.00	0.00
ATOM	2835	C	VAL	X	183	22.808	47.265	26.449	0.00	0.00
ATOM	2836	O	VAL	X	183	23.102	46.361	25.707	0.00	0.00
ATOM	2837	N	ALA	X	184	21.483	47.638	26.548	0.00	0.00
ATOM	2838	H	ALA	X	184	21.351	48.435	27.153	0.00	0.00
ATOM	2839	CA	ALA	X	184	20.485	47.186	25.633	0.00	0.00
ATOM	2840	HA	ALA	X	184	20.535	46.099	25.563	0.00	0.00
ATOM	2841	CB	ALA	X	184	19.088	47.482	26.351	0.00	0.00
ATOM	2842	HB1	ALA	X	184	18.947	48.545	26.550	0.00	0.00
ATOM	2843	HB2	ALA	X	184	19.078	47.049	27.351	0.00	0.00
ATOM	2844	HB3	ALA	X	184	18.223	47.079	25.825	0.00	0.00
ATOM	2845	C	ALA	X	184	20.541	47.737	24.159	0.00	0.00
ATOM	2846	O	ALA	X	184	20.066	47.096	23.183	0.00	0.00
ATOM	2847	N	ALA	X	185	21.153	48.883	23.940	0.00	0.00
ATOM	2848	H	ALA	X	185	21.234	49.365	24.824	0.00	0.00
ATOM	2849	CA	ALA	X	185	21.612	49.419	22.663	0.00	0.00
ATOM	2850	HA	ALA	X	185	20.766	49.555	21.989	0.00	0.00
ATOM	2851	CB	ALA	X	185	22.199	50.814	22.774	0.00	0.00
ATOM	2852	HB1	ALA	X	185	21.700	51.492	23.466	0.00	0.00
ATOM	2853	HB2	ALA	X	185	22.268	51.151	21.739	0.00	0.00
ATOM	2854	HB3	ALA	X	185	23.227	50.742	23.130	0.00	0.00
ATOM	2855	C	ALA	X	185	22.619	48.523	21.879	0.00	0.00
ATOM	2856	O	ALA	X	185	22.482	48.421	20.645	0.00	0.00
ATOM	2857	N	PHE	X	186	23.547	47.798	22.555	0.00	0.00
ATOM	2858	H	PHE	X	186	23.543	47.803	23.565	0.00	0.00
ATOM	2859	CA	PHE	X	186	24.552	46.971	21.975	0.00	0.00
ATOM	2860	HA	PHE	X	186	24.847	47.452	21.042	0.00	0.00
ATOM	2861	CB	PHE	X	186	25.759	46.913	22.875	0.00	0.00
ATOM	2862	HB2	PHE	X	186	25.467	46.641	23.889	0.00	0.00
ATOM	2863	HB3	PHE	X	186	26.292	46.064	22.447	0.00	0.00
ATOM	2864	CG	PHE	X	186	26.556	48.214	22.930	0.00	0.00
ATOM	2865	CD1	PHE	X	186	26.058	49.290	23.663	0.00	0.00
ATOM	2866	HD1	PHE	X	186	25.126	49.258	24.208	0.00	0.00
ATOM	2867	CE1	PHE	X	186	26.750	50.482	23.705	0.00	0.00
ATOM	2868	HE1	PHE	X	186	26.483	51.249	24.417	0.00	0.00
ATOM	2869	CZ	PHE	X	186	27.856	50.640	22.869	0.00	0.00
ATOM	2870	HZ	PHE	X	186	28.303	51.623	22.909	0.00	0.00
ATOM	2871	CE2	PHE	X	186	28.260	49.670	21.923	0.00	0.00
ATOM	2872	HE2	PHE	X	186	29.104	49.970	21.321	0.00	0.00
ATOM	2873	CD2	PHE	X	186	27.592	48.427	21.999	0.00	0.00
ATOM	2874	HD2	PHE	X	186	27.871	47.641	21.313	0.00	0.00
ATOM	2875	C	PHE	X	186	24.011	45.533	21.662	0.00	0.00
ATOM	2876	O	PHE	X	186	24.757	44.762	20.992	0.00	0.00
ATOM	2877	N	GLY	X	187	22.826	45.140	22.207	0.00	0.00
ATOM	2878	H	GLY	X	187	22.306	45.819	22.744	0.00	0.00
ATOM	2879	CA	GLY	X	187	22.320	43.803	22.156	0.00	0.00
ATOM	2880	HA2	GLY	X	187	21.246	43.747	21.978	0.00	0.00
ATOM	2881	HA3	GLY	X	187	22.902	43.231	21.433	0.00	0.00
ATOM	2882	C	GLY	X	187	22.540	43.038	23.427	0.00	0.00
ATOM	2883	O	GLY	X	187	22.127	41.861	23.468	0.00	0.00
ATOM	2884	N	GLY	X	188	23.168	43.625	24.437	0.00	0.00
ATOM	2885	H	GLY	X	188	23.471	44.581	24.318	0.00	0.00
ATOM	2886	CA	GLY	X	188	23.397	42.987	25.743	0.00	0.00
ATOM	2887	HA2	GLY	X	188	23.631	41.935	25.581	0.00	0.00
ATOM	2888	HA3	GLY	X	188	24.133	43.571	26.296	0.00	0.00
ATOM	2889	C	GLY	X	188	22.132	43.051	26.645	0.00	0.00
ATOM	2890	O	GLY	X	188	21.247	43.876	26.473	0.00	0.00
ATOM	2891	N	ASP	X	189	22.050	42.099	27.558	0.00	0.00
ATOM	2892	H	ASP	X	189	22.831	41.468	27.665	0.00	0.00

ATOM	2893	CA	ASP	X	189	21.046	42.044	28.580	0.00	0.00
ATOM	2894	HA	ASP	X	189	20.106	42.434	28.189	0.00	0.00
ATOM	2895	CB	ASP	X	189	20.847	40.601	28.933	0.00	0.00
ATOM	2896	HB2	ASP	X	189	20.447	40.155	28.022	0.00	0.00
ATOM	2897	HB3	ASP	X	189	21.763	40.157	29.323	0.00	0.00
ATOM	2898	CG	ASP	X	189	19.686	40.372	29.966	0.00	0.00
ATOM	2899	OD1	ASP	X	189	19.342	39.231	30.277	0.00	0.00
ATOM	2900	OD2	ASP	X	189	19.110	41.359	30.471	0.00	0.00
ATOM	2901	C	ASP	X	189	21.501	42.812	29.817	0.00	0.00
ATOM	2902	O	ASP	X	189	22.324	42.287	30.548	0.00	0.00
ATOM	2903	N	PRO	X	190	20.886	44.014	30.089	0.00	0.00
ATOM	2904	CD	PRO	X	190	19.990	44.832	29.221	0.00	0.00
ATOM	2905	HD2	PRO	X	190	19.096	44.321	28.865	0.00	0.00
ATOM	2906	HD3	PRO	X	190	20.523	45.227	28.356	0.00	0.00
ATOM	2907	CG	PRO	X	190	19.320	45.874	30.151	0.00	0.00
ATOM	2908	HG2	PRO	X	190	18.475	45.415	30.664	0.00	0.00
ATOM	2909	HG3	PRO	X	190	19.021	46.731	29.548	0.00	0.00
ATOM	2910	CB	PRO	X	190	20.486	46.121	31.128	0.00	0.00
ATOM	2911	HB2	PRO	X	190	20.103	46.482	32.083	0.00	0.00
ATOM	2912	HB3	PRO	X	190	21.116	46.861	30.634	0.00	0.00
ATOM	2913	CA	PRO	X	190	21.229	44.829	31.315	0.00	0.00
ATOM	2914	HA	PRO	X	190	22.297	45.032	31.393	0.00	0.00
ATOM	2915	C	PRO	X	190	20.782	44.210	32.694	0.00	0.00
ATOM	2916	O	PRO	X	190	21.080	44.715	33.782	0.00	0.00
ATOM	2917	N	THR	X	191	19.970	43.121	32.570	0.00	0.00
ATOM	2918	H	THR	X	191	19.686	42.878	31.632	0.00	0.00
ATOM	2919	CA	THR	X	191	19.500	42.263	33.676	0.00	0.00
ATOM	2920	HA	THR	X	191	19.768	42.926	34.498	0.00	0.00
ATOM	2921	CB	THR	X	191	18.065	41.942	33.679	0.00	0.00
ATOM	2922	HB	THR	X	191	17.837	41.439	34.618	0.00	0.00
ATOM	2923	CG2	THR	X	191	17.162	43.195	33.666	0.00	0.00
ATOM	2924	HG21	THR	X	191	17.453	43.812	34.516	0.00	0.00
ATOM	2925	HG22	THR	X	191	16.126	42.873	33.768	0.00	0.00
ATOM	2926	HG23	THR	X	191	17.418	43.822	32.811	0.00	0.00
ATOM	2927	OG1	THR	X	191	17.729	41.140	32.624	0.00	0.00
ATOM	2928	HG1	THR	X	191	18.320	41.350	31.896	0.00	0.00
ATOM	2929	C	THR	X	191	20.339	41.035	33.877	0.00	0.00
ATOM	2930	O	THR	X	191	20.240	40.292	34.886	0.00	0.00
ATOM	2931	N	SER	X	192	21.325	40.838	33.031	0.00	0.00
ATOM	2932	H	SER	X	192	21.473	41.563	32.344	0.00	0.00
ATOM	2933	CA	SER	X	192	22.316	39.714	33.165	0.00	0.00
ATOM	2934	HA	SER	X	192	22.201	39.221	34.131	0.00	0.00
ATOM	2935	CB	SER	X	192	21.970	38.566	32.205	0.00	0.00
ATOM	2936	HB2	SER	X	192	22.203	39.056	31.259	0.00	0.00
ATOM	2937	HB3	SER	X	192	22.726	37.783	32.268	0.00	0.00
ATOM	2938	OG	SER	X	192	20.629	38.147	32.345	0.00	0.00
ATOM	2939	HG	SER	X	192	20.107	38.652	31.717	0.00	0.00
ATOM	2940	C	SER	X	192	23.777	40.331	33.099	0.00	0.00
ATOM	2941	O	SER	X	192	24.485	40.083	32.082	0.00	0.00
ATOM	2942	N	VAL	X	193	24.179	41.057	34.083	0.00	0.00
ATOM	2943	H	VAL	X	193	23.526	41.231	34.834	0.00	0.00
ATOM	2944	CA	VAL	X	193	25.533	41.775	34.082	0.00	0.00
ATOM	2945	HA	VAL	X	193	25.973	41.487	33.127	0.00	0.00
ATOM	2946	CB	VAL	X	193	25.439	43.282	34.260	0.00	0.00
ATOM	2947	HB	VAL	X	193	25.023	43.418	35.259	0.00	0.00
ATOM	2948	CG1	VAL	X	193	26.693	44.110	34.115	0.00	0.00
ATOM	2949	HG11	VAL	X	193	26.947	44.140	33.055	0.00	0.00
ATOM	2950	HG12	VAL	X	193	26.637	45.106	34.554	0.00	0.00
ATOM	2951	HG13	VAL	X	193	27.464	43.521	34.611	0.00	0.00
ATOM	2952	CG2	VAL	X	193	24.397	43.903	33.298	0.00	0.00
ATOM	2953	HG21	VAL	X	193	24.199	44.889	33.718	0.00	0.00
ATOM	2954	HG22	VAL	X	193	23.483	43.331	33.455	0.00	0.00
ATOM	2955	HG23	VAL	X	193	24.766	43.871	32.273	0.00	0.00
ATOM	2956	C	VAL	X	193	26.378	41.116	35.223	0.00	0.00
ATOM	2957	O	VAL	X	193	25.955	40.942	36.347	0.00	0.00
ATOM	2958	N	THR	X	194	27.662	40.835	34.882	0.00	0.00
ATOM	2959	H	THR	X	194	28.008	41.121	33.978	0.00	0.00

ATOM	2960	CA	THR	X	194	28.666	40.188	35.729	0.00	0.00
ATOM	2961	HA	THR	X	194	28.363	40.180	36.776	0.00	0.00
ATOM	2962	CB	THR	X	194	28.964	38.831	35.076	0.00	0.00
ATOM	2963	HB	THR	X	194	29.362	38.965	34.070	0.00	0.00
ATOM	2964	CG2	THR	X	194	29.945	38.062	35.886	0.00	0.00
ATOM	2965	HG21	THR	X	194	29.853	37.052	35.487	0.00	0.00
ATOM	2966	HG22	THR	X	194	29.719	38.067	36.952	0.00	0.00
ATOM	2967	HG23	THR	X	194	30.938	38.458	35.674	0.00	0.00
ATOM	2968	OG1	THR	X	194	27.720	38.171	35.115	0.00	0.00
ATOM	2969	HG1	THR	X	194	27.410	38.083	34.210	0.00	0.00
ATOM	2970	C	THR	X	194	29.928	41.002	35.752	0.00	0.00
ATOM	2971	O	THR	X	194	30.515	41.223	34.716	0.00	0.00
ATOM	2972	N	LEU	X	195	30.411	41.364	36.938	0.00	0.00
ATOM	2973	H	LEU	X	195	29.929	41.012	37.753	0.00	0.00
ATOM	2974	CA	LEU	X	195	31.777	41.941	37.104	0.00	0.00
ATOM	2975	HA	LEU	X	195	32.070	42.595	36.283	0.00	0.00
ATOM	2976	CB	LEU	X	195	31.884	42.762	38.407	0.00	0.00
ATOM	2977	HB2	LEU	X	195	31.692	42.072	39.228	0.00	0.00
ATOM	2978	HB3	LEU	X	195	32.919	42.998	38.654	0.00	0.00
ATOM	2979	CG	LEU	X	195	30.932	44.026	38.525	0.00	0.00
ATOM	2980	HG	LEU	X	195	29.867	43.811	38.607	0.00	0.00
ATOM	2981	CD1	LEU	X	195	31.281	44.840	39.794	0.00	0.00
ATOM	2982	HD11	LEU	X	195	31.019	44.195	40.633	0.00	0.00
ATOM	2983	HD12	LEU	X	195	30.646	45.727	39.798	0.00	0.00
ATOM	2984	HD13	LEU	X	195	32.345	45.040	39.921	0.00	0.00
ATOM	2985	CD2	LEU	X	195	31.100	44.938	37.333	0.00	0.00
ATOM	2986	HD21	LEU	X	195	30.546	45.808	37.687	0.00	0.00
ATOM	2987	HD22	LEU	X	195	32.164	45.136	37.210	0.00	0.00
ATOM	2988	HD23	LEU	X	195	30.620	44.576	36.423	0.00	0.00
ATOM	2989	C	LEU	X	195	32.836	40.766	37.015	0.00	0.00
ATOM	2990	O	LEU	X	195	32.733	39.802	37.712	0.00	0.00
ATOM	2991	N	PHE	X	196	33.879	41.027	36.168	0.00	0.00
ATOM	2992	H	PHE	X	196	33.779	41.852	35.594	0.00	0.00
ATOM	2993	CA	PHE	X	196	34.776	39.943	35.702	0.00	0.00
ATOM	2994	HA	PHE	X	196	34.722	38.971	36.194	0.00	0.00
ATOM	2995	CB	PHE	X	196	34.306	39.557	34.227	0.00	0.00
ATOM	2996	HB2	PHE	X	196	33.292	39.166	34.299	0.00	0.00
ATOM	2997	HB3	PHE	X	196	34.391	40.450	33.607	0.00	0.00
ATOM	2998	CG	PHE	X	196	35.232	38.510	33.580	0.00	0.00
ATOM	2999	CD1	PHE	X	196	35.493	38.551	32.194	0.00	0.00
ATOM	3000	HD1	PHE	X	196	35.020	39.335	31.621	0.00	0.00
ATOM	3001	CE1	PHE	X	196	36.412	37.735	31.524	0.00	0.00
ATOM	3002	HE1	PHE	X	196	36.615	37.706	30.464	0.00	0.00
ATOM	3003	CZ	PHE	X	196	37.099	36.837	32.305	0.00	0.00
ATOM	3004	HZ	PHE	X	196	37.887	36.213	31.911	0.00	0.00
ATOM	3005	CE2	PHE	X	196	36.787	36.709	33.654	0.00	0.00
ATOM	3006	HE2	PHE	X	196	37.371	35.959	34.167	0.00	0.00
ATOM	3007	CD2	PHE	X	196	35.766	37.430	34.323	0.00	0.00
ATOM	3008	HD2	PHE	X	196	35.527	37.248	35.361	0.00	0.00
ATOM	3009	C	PHE	X	196	36.221	40.477	35.771	0.00	0.00
ATOM	3010	O	PHE	X	196	36.420	41.563	35.208	0.00	0.00
ATOM	3011	N	GLY	X	197	37.270	39.925	36.465	0.00	0.00
ATOM	3012	H	GLY	X	197	37.188	39.129	37.081	0.00	0.00
ATOM	3013	CA	GLY	X	197	38.558	40.679	36.615	0.00	0.00
ATOM	3014	HA2	GLY	X	197	39.082	40.814	35.669	0.00	0.00
ATOM	3015	HA3	GLY	X	197	38.328	41.639	37.078	0.00	0.00
ATOM	3016	C	GLY	X	197	39.658	40.055	37.510	0.00	0.00
ATOM	3017	O	GLY	X	197	39.328	39.237	38.337	0.00	0.00
ATOM	3018	N	GLU	X	198	40.920	40.402	37.322	0.00	0.00
ATOM	3019	H	GLU	X	198	41.171	40.978	36.531	0.00	0.00
ATOM	3020	CA	GLU	X	198	42.052	39.899	38.241	0.00	0.00
ATOM	3021	HA	GLU	X	198	41.538	39.235	38.935	0.00	0.00
ATOM	3022	CB	GLU	X	198	43.081	39.180	37.454	0.00	0.00
ATOM	3023	HB2	GLU	X	198	43.834	38.869	38.178	0.00	0.00
ATOM	3024	HB3	GLU	X	198	42.652	38.208	37.213	0.00	0.00
ATOM	3025	CG	GLU	X	198	43.713	39.792	36.164	0.00	0.00
ATOM	3026	HG2	GLU	X	198	44.444	39.070	35.800	0.00	0.00

ATOM	3027	HG3	GLU	X	198	42.893	39.892	35.452	0.00	0.00
ATOM	3028	CD	GLU	X	198	44.433	41.135	36.212	0.00	0.00
ATOM	3029	OE1	GLU	X	198	44.171	41.978	35.302	0.00	0.00
ATOM	3030	OE2	GLU	X	198	45.268	41.330	37.158	0.00	0.00
ATOM	3031	C	GLU	X	198	42.669	41.014	39.152	0.00	0.00
ATOM	3032	O	GLU	X	198	42.656	42.232	38.909	0.00	0.00
ATOM	3033	N	XA1	X	199	43.196	40.469	40.299	0.00	0.00
ATOM	3034	CA	XA1	X	199	44.145	41.163	41.164	0.00	0.00
ATOM	3035	C	XA1	X	199	43.596	42.436	41.807	0.00	0.00
ATOM	3036	O	XA1	X	199	42.683	42.288	42.585	0.00	0.00
ATOM	3037	CB	XA1	X	199	45.520	41.327	40.416	0.00	0.00
ATOM	3038	OG	XA1	X	199	46.524	41.485	41.439	0.00	0.00
ATOM	3039	P1	XA1	X	199	47.591	42.648	41.306	0.00	0.00
ATOM	3040	O1	XA1	X	199	46.945	43.837	40.715	0.00	0.00
ATOM	3041	O2	XA1	X	199	48.702	42.065	40.645	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.032	43.066	42.940	0.00	0.00
ATOM	3043	H	XA1	X	199	43.056	39.482	40.460	0.00	0.00
ATOM	3044	HA	XA1	X	199	44.302	40.435	41.960	0.00	0.00
ATOM	3045	HB2	XA1	X	199	45.742	40.390	39.899	0.00	0.00
ATOM	3046	HB3	XA1	X	199	45.609	42.133	39.683	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.517	44.040	42.852	0.00	0.00
ATOM	3048	H12	XA1	X	199	47.175	43.015	43.616	0.00	0.00
ATOM	3049	H13	XA1	X	199	48.797	42.411	43.362	0.00	0.00
ATOM	3050	N	ALA	X	200	44.121	43.710	41.598	0.00	0.00
ATOM	3051	H	ALA	X	200	45.061	43.759	41.232	0.00	0.00
ATOM	3052	CA	ALA	X	200	43.474	44.987	41.950	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.376	45.128	43.026	0.00	0.00
ATOM	3054	CB	ALA	X	200	44.449	46.111	41.615	0.00	0.00
ATOM	3055	HB1	ALA	X	200	45.205	45.867	40.868	0.00	0.00
ATOM	3056	HB2	ALA	X	200	44.940	46.360	42.556	0.00	0.00
ATOM	3057	HB3	ALA	X	200	43.922	47.007	41.287	0.00	0.00
ATOM	3058	C	ALA	X	200	42.084	45.288	41.298	0.00	0.00
ATOM	3059	O	ALA	X	200	41.253	45.983	41.869	0.00	0.00
ATOM	3060	N	GLY	X	201	41.848	44.773	40.075	0.00	0.00
ATOM	3061	H	GLY	X	201	42.475	44.102	39.655	0.00	0.00
ATOM	3062	CA	GLY	X	201	40.493	44.733	39.503	0.00	0.00
ATOM	3063	HA2	GLY	X	201	40.131	45.758	39.576	0.00	0.00
ATOM	3064	HA3	GLY	X	201	40.504	44.457	38.448	0.00	0.00
ATOM	3065	C	GLY	X	201	39.591	43.797	40.278	0.00	0.00
ATOM	3066	O	GLY	X	201	38.469	44.105	40.618	0.00	0.00
ATOM	3067	N	ALA	X	202	40.052	42.567	40.635	0.00	0.00
ATOM	3068	H	ALA	X	202	40.981	42.242	40.409	0.00	0.00
ATOM	3069	CA	ALA	X	202	39.295	41.730	41.550	0.00	0.00
ATOM	3070	HA	ALA	X	202	38.343	41.518	41.064	0.00	0.00
ATOM	3071	CB	ALA	X	202	40.079	40.448	41.825	0.00	0.00
ATOM	3072	HB1	ALA	X	202	40.306	39.940	40.887	0.00	0.00
ATOM	3073	HB2	ALA	X	202	39.435	39.782	42.399	0.00	0.00
ATOM	3074	HB3	ALA	X	202	41.045	40.594	42.307	0.00	0.00
ATOM	3075	C	ALA	X	202	38.922	42.396	42.979	0.00	0.00
ATOM	3076	O	ALA	X	202	37.728	42.331	43.374	0.00	0.00
ATOM	3077	N	ALA	X	203	39.915	42.897	43.709	0.00	0.00
ATOM	3078	H	ALA	X	203	40.817	43.074	43.291	0.00	0.00
ATOM	3079	CA	ALA	X	203	39.728	43.663	44.959	0.00	0.00
ATOM	3080	HA	ALA	X	203	39.221	43.029	45.686	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.036	44.130	45.532	0.00	0.00
ATOM	3082	HB1	ALA	X	203	40.901	44.694	46.454	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.606	44.889	44.997	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.752	43.361	45.821	0.00	0.00
ATOM	3085	C	ALA	X	203	38.726	44.832	44.741	0.00	0.00
ATOM	3086	O	ALA	X	203	37.882	45.063	45.557	0.00	0.00
ATOM	3087	N	SER	X	204	38.825	45.539	43.564	0.00	0.00
ATOM	3088	H	SER	X	204	39.680	45.359	43.058	0.00	0.00
ATOM	3089	CA	SER	X	204	37.783	46.442	43.180	0.00	0.00
ATOM	3090	HA	SER	X	204	37.594	47.255	43.882	0.00	0.00
ATOM	3091	CB	SER	X	204	38.162	47.061	41.834	0.00	0.00
ATOM	3092	HB2	SER	X	204	38.407	46.394	41.008	0.00	0.00
ATOM	3093	HB3	SER	X	204	37.281	47.575	41.448	0.00	0.00

ATOM	3094	OG	SER	X	204	39.249	47.945	42.000	0.00	0.00
ATOM	3095	HG	SER	X	204	40.082	47.468	42.015	0.00	0.00
ATOM	3096	C	SER	X	204	36.389	45.721	43.122	0.00	0.00
ATOM	3097	O	SER	X	204	35.444	46.237	43.778	0.00	0.00
ATOM	3098	N	VAL	X	205	36.209	44.623	42.429	0.00	0.00
ATOM	3099	H	VAL	X	205	37.012	44.313	41.902	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.005	43.834	42.393	0.00	0.00
ATOM	3101	HA	VAL	X	205	34.174	44.357	41.919	0.00	0.00
ATOM	3102	CB	VAL	X	205	35.177	42.644	41.433	0.00	0.00
ATOM	3103	HB	VAL	X	205	36.048	42.015	41.615	0.00	0.00
ATOM	3104	CG1	VAL	X	205	34.002	41.649	41.442	0.00	0.00
ATOM	3105	HG11	VAL	X	205	33.944	41.062	42.359	0.00	0.00
ATOM	3106	HG12	VAL	X	205	33.096	42.249	41.358	0.00	0.00
ATOM	3107	HG13	VAL	X	205	34.011	40.980	40.582	0.00	0.00
ATOM	3108	CG2	VAL	X	205	35.318	43.115	39.973	0.00	0.00
ATOM	3109	HG21	VAL	X	205	35.127	42.323	39.249	0.00	0.00
ATOM	3110	HG22	VAL	X	205	36.283	43.606	39.846	0.00	0.00
ATOM	3111	HG23	VAL	X	205	34.677	43.966	39.742	0.00	0.00
ATOM	3112	C	VAL	X	205	34.609	43.396	43.761	0.00	0.00
ATOM	3113	O	VAL	X	205	33.379	43.241	44.016	0.00	0.00
ATOM	3114	N	GLY	X	206	35.588	43.276	44.632	0.00	0.00
ATOM	3115	H	GLY	X	206	36.518	43.465	44.286	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.294	43.187	46.049	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.837	42.230	46.302	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.262	43.081	46.539	0.00	0.00
ATOM	3119	C	GLY	X	206	34.721	44.375	46.848	0.00	0.00
ATOM	3120	O	GLY	X	206	33.894	44.183	47.740	0.00	0.00
ATOM	3121	N	MET	X	207	35.149	45.576	46.581	0.00	0.00
ATOM	3122	H	MET	X	207	35.850	45.670	45.861	0.00	0.00
ATOM	3123	CA	MET	X	207	34.493	46.747	47.148	0.00	0.00
ATOM	3124	HA	MET	X	207	34.491	46.626	48.231	0.00	0.00
ATOM	3125	CB	MET	X	207	35.312	48.049	47.004	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.524	48.286	45.962	0.00	0.00
ATOM	3127	HB3	MET	X	207	34.769	48.958	47.263	0.00	0.00
ATOM	3128	CG	MET	X	207	36.636	47.819	47.719	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.466	47.546	48.761	0.00	0.00
ATOM	3130	HD3	MET	X	207	37.189	46.996	47.266	0.00	0.00
ATOM	3131	SD	MET	X	207	37.769	49.172	47.780	0.00	0.00
ATOM	3132	CE	MET	X	207	39.016	48.298	48.777	0.00	0.00
ATOM	3133	HE1	MET	X	207	39.344	47.378	48.293	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.891	48.858	49.107	0.00	0.00
ATOM	3135	HE3	MET	X	207	38.579	47.971	49.721	0.00	0.00
ATOM	3136	C	MET	X	207	33.103	47.001	46.585	0.00	0.00
ATOM	3137	O	MET	X	207	32.245	47.400	47.341	0.00	0.00
ATOM	3138	N	HIE	X	208	32.893	46.750	45.299	0.00	0.00
ATOM	3139	H	HIE	X	208	33.672	46.501	44.706	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.588	46.677	44.722	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.093	47.646	44.795	0.00	0.00
ATOM	3142	CB	HIE	X	208	31.795	46.400	43.220	0.00	0.00
ATOM	3143	HB2	HIE	X	208	32.350	45.472	43.081	0.00	0.00
ATOM	3144	HB3	HIE	X	208	30.795	46.331	42.793	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.313	47.529	42.384	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.112	48.884	42.451	0.00	0.00
ATOM	3147	CE1	HIE	X	208	33.038	49.503	41.688	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.303	50.549	41.652	0.00	0.00
ATOM	3149	NE2	HIE	X	208	33.855	48.577	41.176	0.00	0.00
ATOM	3150	HE2	HIE	X	208	34.720	48.741	40.682	0.00	0.00
ATOM	3151	CD2	HIE	X	208	33.421	47.272	41.526	0.00	0.00
ATOM	3152	HD2	HIE	X	208	33.919	46.344	41.287	0.00	0.00
ATOM	3153	C	HIE	X	208	30.702	45.651	45.348	0.00	0.00
ATOM	3154	O	HIE	X	208	29.553	45.972	45.477	0.00	0.00
ATOM	3155	N	LEU	X	209	31.246	44.468	45.686	0.00	0.00
ATOM	3156	H	LEU	X	209	32.240	44.354	45.549	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.508	43.480	46.450	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.545	43.264	45.986	0.00	0.00
ATOM	3159	CB	LEU	X	209	31.266	42.143	46.426	0.00	0.00
ATOM	3160	HB2	LEU	X	209	31.508	41.956	45.380	0.00	0.00

ATOM	3161	HB3	LEU	X	209	32.099	42.261	47.119	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.380	40.953	46.932	0.00	0.00
ATOM	3163	HG	LEU	X	209	30.176	41.071	47.996	0.00	0.00
ATOM	3164	CD1	LEU	X	209	29.127	40.820	46.156	0.00	0.00
ATOM	3165	HD11	LEU	X	209	28.602	39.913	46.455	0.00	0.00
ATOM	3166	HD12	LEU	X	209	29.402	40.731	45.105	0.00	0.00
ATOM	3167	HD13	LEU	X	209	28.442	41.600	46.488	0.00	0.00
ATOM	3168	CD2	LEU	X	209	31.057	39.563	46.823	0.00	0.00
ATOM	3169	HD21	LEU	X	209	30.588	38.756	47.386	0.00	0.00
ATOM	3170	HD22	LEU	X	209	31.041	39.344	45.755	0.00	0.00
ATOM	3171	HD23	LEU	X	209	32.117	39.584	47.076	0.00	0.00
ATOM	3172	C	LEU	X	209	30.221	43.890	47.890	0.00	0.00
ATOM	3173	O	LEU	X	209	29.068	43.795	48.372	0.00	0.00
ATOM	3174	N	LEU	X	210	31.175	44.451	48.552	0.00	0.00
ATOM	3175	H	LEU	X	210	32.077	44.726	48.191	0.00	0.00
ATOM	3176	CA	LEU	X	210	30.945	45.029	49.875	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.475	44.303	50.539	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.303	45.519	50.524	0.00	0.00
ATOM	3179	HB2	LEU	X	210	32.891	45.906	49.692	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.082	46.329	51.219	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.967	44.345	51.248	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.353	44.209	52.139	0.00	0.00
ATOM	3183	CD1	LEU	X	210	33.116	42.960	50.567	0.00	0.00
ATOM	3184	HD11	LEU	X	210	33.691	42.306	51.223	0.00	0.00
ATOM	3185	HD12	LEU	X	210	33.808	42.918	49.726	0.00	0.00
ATOM	3186	HD13	LEU	X	210	32.205	42.470	50.222	0.00	0.00
ATOM	3187	CD2	LEU	X	210	34.333	44.866	51.619	0.00	0.00
ATOM	3188	HD21	LEU	X	210	35.029	44.852	50.780	0.00	0.00
ATOM	3189	HD22	LEU	X	210	34.363	45.842	52.103	0.00	0.00
ATOM	3190	HD23	LEU	X	210	34.716	44.144	52.341	0.00	0.00
ATOM	3191	C	LEU	X	210	29.879	46.151	49.900	0.00	0.00
ATOM	3192	O	LEU	X	210	29.140	46.273	50.910	0.00	0.00
ATOM	3193	N	SER	X	211	29.682	47.024	48.904	0.00	0.00
ATOM	3194	H	SER	X	211	30.131	46.842	48.018	0.00	0.00
ATOM	3195	CA	SER	X	211	29.025	48.314	49.002	0.00	0.00
ATOM	3196	HA	SER	X	211	28.880	48.513	50.064	0.00	0.00
ATOM	3197	CB	SER	X	211	29.984	49.414	48.432	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.969	49.116	48.790	0.00	0.00
ATOM	3199	HB3	SER	X	211	29.926	49.442	47.344	0.00	0.00
ATOM	3200	OG	SER	X	211	29.651	50.718	48.896	0.00	0.00
ATOM	3201	HG	SER	X	211	29.918	50.864	49.807	0.00	0.00
ATOM	3202	C	SER	X	211	27.665	48.253	48.223	0.00	0.00
ATOM	3203	O	SER	X	211	27.778	47.968	47.034	0.00	0.00
ATOM	3204	N	PRO	X	212	26.508	48.455	48.892	0.00	0.00
ATOM	3205	CD	PRO	X	212	26.335	48.382	50.385	0.00	0.00
ATOM	3206	HD2	PRO	X	212	26.718	49.294	50.842	0.00	0.00
ATOM	3207	HD3	PRO	X	212	26.981	47.612	50.807	0.00	0.00
ATOM	3208	CG	PRO	X	212	24.847	48.102	50.601	0.00	0.00
ATOM	3209	HG2	PRO	X	212	24.468	48.563	51.513	0.00	0.00
ATOM	3210	HG3	PRO	X	212	24.602	47.041	50.556	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.216	48.664	49.365	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.059	49.731	49.522	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.306	48.162	49.035	0.00	0.00
ATOM	3214	CA	PRO	X	212	25.260	48.466	48.194	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.097	47.450	47.834	0.00	0.00
ATOM	3216	C	PRO	X	212	25.068	49.445	47.049	0.00	0.00
ATOM	3217	O	PRO	X	212	24.416	49.056	46.091	0.00	0.00
ATOM	3218	N	PRO	X	213	25.606	50.726	47.060	0.00	0.00
ATOM	3219	CD	PRO	X	213	26.063	51.480	48.215	0.00	0.00
ATOM	3220	HD2	PRO	X	213	26.619	50.845	48.905	0.00	0.00
ATOM	3221	HD3	PRO	X	213	25.213	51.884	48.764	0.00	0.00
ATOM	3222	CG	PRO	X	213	26.842	52.599	47.599	0.00	0.00
ATOM	3223	HG2	PRO	X	213	27.777	52.145	47.271	0.00	0.00
ATOM	3224	HG3	PRO	X	213	27.029	53.478	48.216	0.00	0.00
ATOM	3225	CB	PRO	X	213	25.965	53.012	46.444	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.635	53.468	45.716	0.00	0.00
ATOM	3227	HB3	PRO	X	213	25.088	53.480	46.893	0.00	0.00

ATOM	3228	CA	PRO	X	213	25.479	51.596	45.909	0.00	0.00
ATOM	3229	HA	PRO	X	213	24.406	51.549	45.726	0.00	0.00
ATOM	3230	C	PRO	X	213	26.116	51.038	44.595	0.00	0.00
ATOM	3231	O	PRO	X	213	25.833	51.651	43.523	0.00	0.00
ATOM	3232	N	SER	X	214	27.036	50.052	44.677	0.00	0.00
ATOM	3233	H	SER	X	214	27.415	49.800	45.579	0.00	0.00
ATOM	3234	CA	SER	X	214	27.463	49.307	43.502	0.00	0.00
ATOM	3235	HA	SER	X	214	27.311	49.966	42.647	0.00	0.00
ATOM	3236	CB	SER	X	214	28.927	49.002	43.546	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.148	48.493	44.484	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.226	48.352	42.724	0.00	0.00
ATOM	3239	OG	SER	X	214	29.783	50.068	43.394	0.00	0.00
ATOM	3240	HG	SER	X	214	30.638	49.649	43.268	0.00	0.00
ATOM	3241	C	SER	X	214	26.748	47.996	43.210	0.00	0.00
ATOM	3242	O	SER	X	214	26.699	47.618	42.073	0.00	0.00
ATOM	3243	N	ARG	X	215	26.155	47.311	44.171	0.00	0.00
ATOM	3244	H	ARG	X	215	26.104	47.563	45.148	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.400	46.081	43.973	0.00	0.00
ATOM	3246	HA	ARG	X	215	25.881	45.388	43.282	0.00	0.00
ATOM	3247	CB	ARG	X	215	25.120	45.365	45.274	0.00	0.00
ATOM	3248	HB2	ARG	X	215	24.607	45.978	46.015	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.428	44.525	45.214	0.00	0.00
ATOM	3250	CG	ARG	X	215	26.361	44.845	46.040	0.00	0.00
ATOM	3251	HG2	ARG	X	215	27.103	44.374	45.395	0.00	0.00
ATOM	3252	HG3	ARG	X	215	26.732	45.719	46.575	0.00	0.00
ATOM	3253	CD	ARG	X	215	25.932	43.806	47.072	0.00	0.00
ATOM	3254	HD2	ARG	X	215	25.309	43.102	46.520	0.00	0.00
ATOM	3255	HD3	ARG	X	215	26.802	43.302	47.494	0.00	0.00
ATOM	3256	NE	ARG	X	215	25.203	44.460	48.241	0.00	0.00
ATOM	3257	HE	ARG	X	215	24.306	44.881	48.046	0.00	0.00
ATOM	3258	CZ	ARG	X	215	25.638	44.503	49.493	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.851	44.133	49.865	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.668	44.154	49.273	0.00	0.00
ATOM	3261	HH12	ARG	X	215	27.186	44.100	50.818	0.00	0.00
ATOM	3262	NH2	ARG	X	215	24.729	44.715	50.513	0.00	0.00
ATOM	3263	HH21	ARG	X	215	23.756	44.923	50.342	0.00	0.00
ATOM	3264	HH22	ARG	X	215	25.012	44.718	51.483	0.00	0.00
ATOM	3265	C	ARG	X	215	23.997	46.312	43.317	0.00	0.00
ATOM	3266	O	ARG	X	215	23.391	45.464	42.633	0.00	0.00
ATOM	3267	N	GLY	X	216	23.576	47.559	43.278	0.00	0.00
ATOM	3268	H	GLY	X	216	24.085	48.181	43.890	0.00	0.00
ATOM	3269	CA	GLY	X	216	22.639	48.312	42.396	0.00	0.00
ATOM	3270	HA2	GLY	X	216	21.601	48.050	42.598	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.735	49.356	42.696	0.00	0.00
ATOM	3272	C	GLY	X	216	22.866	48.260	40.929	0.00	0.00
ATOM	3273	O	GLY	X	216	22.145	48.870	40.185	0.00	0.00
ATOM	3274	N	LEU	X	217	23.966	47.583	40.444	0.00	0.00
ATOM	3275	H	LEU	X	217	24.650	47.211	41.087	0.00	0.00
ATOM	3276	CA	LEU	X	217	24.385	47.796	39.073	0.00	0.00
ATOM	3277	HA	LEU	X	217	23.586	48.103	38.398	0.00	0.00
ATOM	3278	CB	LEU	X	217	25.656	48.722	39.059	0.00	0.00
ATOM	3279	HB2	LEU	X	217	26.393	48.296	39.740	0.00	0.00
ATOM	3280	HB3	LEU	X	217	26.009	48.876	38.039	0.00	0.00
ATOM	3281	CG	LEU	X	217	25.423	50.207	39.539	0.00	0.00
ATOM	3282	HG	LEU	X	217	25.085	50.112	40.571	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.710	51.110	39.653	0.00	0.00
ATOM	3284	HD11	LEU	X	217	27.601	50.663	40.092	0.00	0.00
ATOM	3285	HD12	LEU	X	217	26.440	51.931	40.317	0.00	0.00
ATOM	3286	HD13	LEU	X	217	26.942	51.592	38.703	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.428	50.984	38.635	0.00	0.00
ATOM	3288	HD21	LEU	X	217	24.514	52.038	38.899	0.00	0.00
ATOM	3289	HD22	LEU	X	217	24.706	51.045	37.583	0.00	0.00
ATOM	3290	HD23	LEU	X	217	23.411	50.608	38.748	0.00	0.00
ATOM	3291	C	LEU	X	217	24.914	46.549	38.377	0.00	0.00
ATOM	3292	O	LEU	X	217	25.404	46.665	37.250	0.00	0.00
ATOM	3293	N	PHE	X	218	24.877	45.387	39.046	0.00	0.00
ATOM	3294	H	PHE	X	218	24.435	45.459	39.951	0.00	0.00

ATOM	3295	CA	PHE	X	218	25.159	44.099	38.524	0.00	0.00
ATOM	3296	HA	PHE	X	218	24.876	44.098	37.471	0.00	0.00
ATOM	3297	CB	PHE	X	218	26.690	43.810	38.737	0.00	0.00
ATOM	3298	HB2	PHE	X	218	26.928	42.913	38.165	0.00	0.00
ATOM	3299	HB3	PHE	X	218	27.243	44.618	38.257	0.00	0.00
ATOM	3300	CG	PHE	X	218	27.325	43.608	40.130	0.00	0.00
ATOM	3301	CD1	PHE	X	218	27.821	44.773	40.743	0.00	0.00
ATOM	3302	HD1	PHE	X	218	27.682	45.700	40.207	0.00	0.00
ATOM	3303	CE1	PHE	X	218	28.436	44.681	41.990	0.00	0.00
ATOM	3304	HE1	PHE	X	218	28.989	45.517	42.393	0.00	0.00
ATOM	3305	CZ	PHE	X	218	28.549	43.488	42.611	0.00	0.00
ATOM	3306	HZ	PHE	X	218	29.183	43.403	43.481	0.00	0.00
ATOM	3307	CE2	PHE	X	218	27.964	42.314	42.070	0.00	0.00
ATOM	3308	HE2	PHE	X	218	28.038	41.378	42.604	0.00	0.00
ATOM	3309	CD2	PHE	X	218	27.394	42.390	40.781	0.00	0.00
ATOM	3310	HD2	PHE	X	218	26.883	41.514	40.410	0.00	0.00
ATOM	3311	C	PHE	X	218	24.467	42.875	39.227	0.00	0.00
ATOM	3312	O	PHE	X	218	23.946	43.038	40.358	0.00	0.00
ATOM	3313	N	HIE	X	219	24.592	41.641	38.611	0.00	0.00
ATOM	3314	H	HIE	X	219	25.013	41.662	37.693	0.00	0.00
ATOM	3315	CA	HIE	X	219	23.882	40.409	39.046	0.00	0.00
ATOM	3316	HA	HIE	X	219	23.171	40.661	39.833	0.00	0.00
ATOM	3317	CB	HIE	X	219	23.055	39.913	37.863	0.00	0.00
ATOM	3318	HB2	HIE	X	219	23.669	39.463	37.084	0.00	0.00
ATOM	3319	HB3	HIE	X	219	22.358	39.168	38.248	0.00	0.00
ATOM	3320	CG	HIE	X	219	22.173	40.933	37.239	0.00	0.00
ATOM	3321	ND1	HIE	X	219	22.559	41.965	36.439	0.00	0.00
ATOM	3322	CE1	HIE	X	219	21.594	42.875	36.433	0.00	0.00
ATOM	3323	HE1	HIE	X	219	21.686	43.809	35.899	0.00	0.00
ATOM	3324	NE2	HIE	X	219	20.574	42.458	37.279	0.00	0.00
ATOM	3325	HE2	HIE	X	219	19.673	42.901	37.390	0.00	0.00
ATOM	3326	CD2	HIE	X	219	20.939	41.235	37.762	0.00	0.00
ATOM	3327	HD2	HIE	X	219	20.374	40.645	38.468	0.00	0.00
ATOM	3328	C	HIE	X	219	24.848	39.247	39.588	0.00	0.00
ATOM	3329	O	HIE	X	219	24.458	38.420	40.319	0.00	0.00
ATOM	3330	N	ARG	X	220	26.177	39.297	39.281	0.00	0.00
ATOM	3331	H	ARG	X	220	26.416	40.068	38.674	0.00	0.00
ATOM	3332	CA	ARG	X	220	27.248	38.331	39.689	0.00	0.00
ATOM	3333	HA	ARG	X	220	27.100	37.837	40.649	0.00	0.00
ATOM	3334	CB	ARG	X	220	27.312	37.068	38.722	0.00	0.00
ATOM	3335	HB2	ARG	X	220	27.521	37.423	37.713	0.00	0.00
ATOM	3336	HB3	ARG	X	220	28.170	36.471	39.031	0.00	0.00
ATOM	3337	CG	ARG	X	220	26.065	36.065	38.876	0.00	0.00
ATOM	3338	HG2	ARG	X	220	26.453	35.051	38.780	0.00	0.00
ATOM	3339	HG3	ARG	X	220	25.567	36.192	39.837	0.00	0.00
ATOM	3340	CD	ARG	X	220	25.061	36.369	37.730	0.00	0.00
ATOM	3341	HD2	ARG	X	220	24.977	37.437	37.526	0.00	0.00
ATOM	3342	HD3	ARG	X	220	25.423	35.940	36.796	0.00	0.00
ATOM	3343	NE	ARG	X	220	23.720	35.951	38.203	0.00	0.00
ATOM	3344	HE	ARG	X	220	23.682	35.345	39.011	0.00	0.00
ATOM	3345	CZ	ARG	X	220	22.632	35.952	37.539	0.00	0.00
ATOM	3346	NH1	ARG	X	220	22.454	36.756	36.483	0.00	0.00
ATOM	3347	HH11	ARG	X	220	23.307	37.060	36.036	0.00	0.00
ATOM	3348	HH12	ARG	X	220	21.603	36.612	35.958	0.00	0.00
ATOM	3349	NH2	ARG	X	220	21.714	35.071	37.820	0.00	0.00
ATOM	3350	HH21	ARG	X	220	21.725	34.698	38.759	0.00	0.00
ATOM	3351	HH22	ARG	X	220	20.913	34.886	37.234	0.00	0.00
ATOM	3352	C	ARG	X	220	28.653	39.028	39.796	0.00	0.00
ATOM	3353	O	ARG	X	220	28.978	39.940	39.075	0.00	0.00
ATOM	3354	N	ALA	X	221	29.558	38.465	40.550	0.00	0.00
ATOM	3355	H	ALA	X	221	29.296	37.691	41.144	0.00	0.00
ATOM	3356	CA	ALA	X	221	30.897	39.014	40.789	0.00	0.00
ATOM	3357	HA	ALA	X	221	31.184	39.767	40.055	0.00	0.00
ATOM	3358	CB	ALA	X	221	30.819	39.706	42.147	0.00	0.00
ATOM	3359	HB1	ALA	X	221	31.815	40.033	42.446	0.00	0.00
ATOM	3360	HB2	ALA	X	221	30.439	38.991	42.877	0.00	0.00
ATOM	3361	HB3	ALA	X	221	30.090	40.508	42.028	0.00	0.00

ATOM	3362	C	ALA	X	221	31.970	37.904	40.719	0.00	0.00
ATOM	3363	O	ALA	X	221	31.805	36.958	41.477	0.00	0.00
ATOM	3364	N	VAL	X	222	33.045	38.138	39.945	0.00	0.00
ATOM	3365	H	VAL	X	222	33.011	38.996	39.415	0.00	0.00
ATOM	3366	CA	VAL	X	222	34.167	37.251	39.852	0.00	0.00
ATOM	3367	HA	VAL	X	222	33.920	36.353	40.419	0.00	0.00
ATOM	3368	CB	VAL	X	222	34.355	36.646	38.421	0.00	0.00
ATOM	3369	HB	VAL	X	222	34.594	37.453	37.728	0.00	0.00
ATOM	3370	CG1	VAL	X	222	35.567	35.836	38.219	0.00	0.00
ATOM	3371	HG11	VAL	X	222	35.916	35.237	39.061	0.00	0.00
ATOM	3372	HG12	VAL	X	222	35.453	35.206	37.337	0.00	0.00
ATOM	3373	HG13	VAL	X	222	36.301	36.635	38.123	0.00	0.00
ATOM	3374	CG2	VAL	X	222	33.149	35.905	37.870	0.00	0.00
ATOM	3375	HG21	VAL	X	222	33.308	35.601	36.836	0.00	0.00
ATOM	3376	HG22	VAL	X	222	32.270	36.537	38.001	0.00	0.00
ATOM	3377	HG23	VAL	X	222	33.053	34.923	38.334	0.00	0.00
ATOM	3378	C	VAL	X	222	35.459	37.856	40.417	0.00	0.00
ATOM	3379	O	VAL	X	222	35.844	38.994	40.099	0.00	0.00
ATOM	3380	N	LEU	X	223	36.084	37.054	41.294	0.00	0.00
ATOM	3381	H	LEU	X	223	35.591	36.234	41.617	0.00	0.00
ATOM	3382	CA	LEU	X	223	37.338	37.342	41.930	0.00	0.00
ATOM	3383	HA	LEU	X	223	37.775	38.264	41.546	0.00	0.00
ATOM	3384	CB	LEU	X	223	37.241	37.563	43.453	0.00	0.00
ATOM	3385	HB2	LEU	X	223	36.763	36.658	43.827	0.00	0.00
ATOM	3386	HB3	LEU	X	223	38.250	37.662	43.853	0.00	0.00
ATOM	3387	CG	LEU	X	223	36.392	38.775	43.886	0.00	0.00
ATOM	3388	HG	LEU	X	223	36.870	39.645	43.435	0.00	0.00
ATOM	3389	CD1	LEU	X	223	34.902	38.666	43.655	0.00	0.00
ATOM	3390	HD11	LEU	X	223	34.516	37.671	43.874	0.00	0.00
ATOM	3391	HD12	LEU	X	223	34.679	38.819	42.599	0.00	0.00
ATOM	3392	HD13	LEU	X	223	34.432	39.421	44.285	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.557	38.902	45.414	0.00	0.00
ATOM	3394	HD21	LEU	X	223	35.890	38.198	45.913	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.610	38.857	45.692	0.00	0.00
ATOM	3396	HD23	LEU	X	223	36.231	39.882	45.764	0.00	0.00
ATOM	3397	C	LEU	X	223	38.436	36.334	41.542	0.00	0.00
ATOM	3398	O	LEU	X	223	38.240	35.110	41.778	0.00	0.00
ATOM	3399	N	GLN	X	224	39.550	36.811	40.969	0.00	0.00
ATOM	3400	H	GLN	X	224	39.606	37.814	40.867	0.00	0.00
ATOM	3401	CA	GLN	X	224	40.691	36.043	40.465	0.00	0.00
ATOM	3402	HA	GLN	X	224	40.674	34.995	40.765	0.00	0.00
ATOM	3403	CB	GLN	X	224	40.658	36.173	38.925	0.00	0.00
ATOM	3404	HB2	GLN	X	224	40.642	37.217	38.612	0.00	0.00
ATOM	3405	HB3	GLN	X	224	41.541	35.697	38.500	0.00	0.00
ATOM	3406	CG	GLN	X	224	39.391	35.572	38.319	0.00	0.00
ATOM	3407	HG2	GLN	X	224	39.203	34.689	38.930	0.00	0.00
ATOM	3408	HG3	GLN	X	224	38.525	36.217	38.469	0.00	0.00
ATOM	3409	CD	GLN	X	224	39.556	35.095	36.816	0.00	0.00
ATOM	3410	OE1	GLN	X	224	38.646	35.310	36.028	0.00	0.00
ATOM	3411	NE2	GLN	X	224	40.688	34.560	36.387	0.00	0.00
ATOM	3412	HE21	GLN	X	224	40.700	34.051	35.515	0.00	0.00
ATOM	3413	HE22	GLN	X	224	41.440	34.331	37.021	0.00	0.00
ATOM	3414	C	GLN	X	224	41.990	36.650	41.013	0.00	0.00
ATOM	3415	O	GLN	X	224	42.304	37.789	40.731	0.00	0.00
ATOM	3416	N	SER	X	225	42.646	35.928	41.955	0.00	0.00
ATOM	3417	H	SER	X	225	42.282	35.045	42.284	0.00	0.00
ATOM	3418	CA	SER	X	225	44.057	36.150	42.375	0.00	0.00
ATOM	3419	HA	SER	X	225	44.405	35.310	42.976	0.00	0.00
ATOM	3420	CB	SER	X	225	44.878	36.157	41.082	0.00	0.00
ATOM	3421	HB2	SER	X	225	44.355	35.387	40.515	0.00	0.00
ATOM	3422	HB3	SER	X	225	44.773	37.039	40.450	0.00	0.00
ATOM	3423	OG	SER	X	225	46.215	35.819	41.378	0.00	0.00
ATOM	3424	HG	SER	X	225	46.253	34.923	41.720	0.00	0.00
ATOM	3425	C	SER	X	225	44.145	37.432	43.289	0.00	0.00
ATOM	3426	O	SER	X	225	45.215	37.959	43.499	0.00	0.00
ATOM	3427	N	GLY	X	226	42.968	37.802	43.876	0.00	0.00
ATOM	3428	H	GLY	X	226	42.137	37.317	43.569	0.00	0.00

ATOM	3429	CA	GLY	X	226	42.860	39.007	44.706	0.00	0.00
ATOM	3430	HA2	GLY	X	226	43.618	39.068	45.487	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.018	39.848	44.030	0.00	0.00
ATOM	3432	C	GLY	X	226	41.449	39.117	45.298	0.00	0.00
ATOM	3433	O	GLY	X	226	40.460	38.701	44.715	0.00	0.00
ATOM	3434	N	ALA	X	227	41.428	39.818	46.420	0.00	0.00
ATOM	3435	H	ALA	X	227	42.328	40.249	46.578	0.00	0.00
ATOM	3436	CA	ALA	X	227	40.413	39.900	47.499	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.415	39.814	47.067	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.555	38.795	48.585	0.00	0.00
ATOM	3439	HB1	ALA	X	227	40.329	37.798	48.206	0.00	0.00
ATOM	3440	HB2	ALA	X	227	39.871	38.911	49.426	0.00	0.00
ATOM	3441	HB3	ALA	X	227	41.542	38.589	49.000	0.00	0.00
ATOM	3442	C	ALA	X	227	40.530	41.272	48.221	0.00	0.00
ATOM	3443	O	ALA	X	227	41.630	41.821	48.135	0.00	0.00
ATOM	3444	N	PRO	X	228	39.474	41.959	48.701	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.076	41.462	48.843	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.044	40.594	49.502	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.678	41.116	47.889	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.253	42.547	49.487	0.00	0.00
ATOM	3449	HG2	PRO	X	228	37.114	42.372	50.554	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.317	42.716	48.956	0.00	0.00
ATOM	3451	CB	PRO	X	228	38.041	43.788	49.170	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.802	44.584	49.875	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.780	44.126	48.168	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.536	43.376	49.138	0.00	0.00
ATOM	3455	HA	PRO	X	228	40.143	43.937	48.427	0.00	0.00
ATOM	3456	C	PRO	X	228	40.078	43.428	50.586	0.00	0.00
ATOM	3457	O	PRO	X	228	40.911	44.317	50.808	0.00	0.00
ATOM	3458	N	ASN	X	229	39.844	42.398	51.453	0.00	0.00
ATOM	3459	H	ASN	X	229	39.019	41.845	51.271	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.434	42.066	52.761	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.505	42.942	53.406	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.475	41.038	53.416	0.00	0.00
ATOM	3463	HB2	ASN	X	229	39.782	40.896	54.452	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.502	41.528	53.456	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.476	39.848	52.582	0.00	0.00
ATOM	3466	OD1	ASN	X	229	38.988	39.835	51.467	0.00	0.00
ATOM	3467	ND2	ASN	X	229	40.003	38.777	53.126	0.00	0.00
ATOM	3468	HD21	ASN	X	229	40.122	38.023	52.465	0.00	0.00
ATOM	3469	HD22	ASN	X	229	40.460	38.826	54.025	0.00	0.00
ATOM	3470	C	ASN	X	229	41.898	41.697	52.613	0.00	0.00
ATOM	3471	O	ASN	X	229	42.611	41.386	53.534	0.00	0.00
ATOM	3472	N	GLY	X	230	42.482	41.706	51.423	0.00	0.00
ATOM	3473	H	GLY	X	230	42.001	41.938	50.566	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.918	41.410	51.288	0.00	0.00
ATOM	3475	HA2	GLY	X	230	44.187	40.488	51.804	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.347	41.306	50.291	0.00	0.00
ATOM	3477	C	GLY	X	230	44.675	42.604	51.889	0.00	0.00
ATOM	3478	O	GLY	X	230	44.270	43.724	51.489	0.00	0.00
ATOM	3479	N	PRO	X	231	45.753	42.293	52.693	0.00	0.00
ATOM	3480	CD	PRO	X	231	46.360	41.001	52.967	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.529	40.449	52.043	0.00	0.00
ATOM	3482	HD3	PRO	X	231	45.701	40.418	53.611	0.00	0.00
ATOM	3483	CG	PRO	X	231	47.784	41.361	53.532	0.00	0.00
ATOM	3484	HG2	PRO	X	231	48.518	41.439	52.729	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.099	40.618	54.264	0.00	0.00
ATOM	3486	CB	PRO	X	231	47.634	42.646	54.249	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.535	43.251	54.348	0.00	0.00
ATOM	3488	HB3	PRO	X	231	47.234	42.498	55.252	0.00	0.00
ATOM	3489	CA	PRO	X	231	46.504	43.372	53.455	0.00	0.00
ATOM	3490	HA	PRO	X	231	45.845	43.910	54.138	0.00	0.00
ATOM	3491	C	PRO	X	231	47.121	44.409	52.426	0.00	0.00
ATOM	3492	O	PRO	X	231	47.431	45.493	52.895	0.00	0.00
ATOM	3493	N	TRP	X	232	47.452	44.097	51.180	0.00	0.00
ATOM	3494	H	TRP	X	232	47.238	43.175	50.828	0.00	0.00
ATOM	3495	CA	TRP	X	232	48.035	45.077	50.141	0.00	0.00

ATOM	3496	HA	TRP	X	232	48.745	45.750	50.623	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.659	44.202	49.011	0.00	0.00
ATOM	3498	HB2	TRP	X	232	49.128	44.881	48.299	0.00	0.00
ATOM	3499	HB3	TRP	X	232	49.366	43.526	49.492	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.666	43.278	48.353	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.490	42.006	48.682	0.00	0.00
ATOM	3502	HD1	TRP	X	232	48.049	41.430	49.405	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.495	41.560	47.847	0.00	0.00
ATOM	3504	HE1	TRP	X	232	46.082	40.643	47.934	0.00	0.00
ATOM	3505	CE2	TRP	X	232	46.075	42.462	46.850	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	45.165	42.448	45.784	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	44.740	41.531	45.403	0.00	0.00
ATOM	3508	CH2	TRP	X	232	44.913	43.655	45.088	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.110	43.650	44.366	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.550	44.894	45.486	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.447	45.739	44.820	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.513	44.841	46.532	0.00	0.00
ATOM	3513	HE3	TRP	X	232	47.122	45.676	46.847	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.775	43.656	47.246	0.00	0.00
ATOM	3515	C	TRP	X	232	46.882	46.011	49.619	0.00	0.00
ATOM	3516	O	TRP	X	232	47.241	47.084	49.166	0.00	0.00
ATOM	3517	N	ALA	X	233	45.619	45.584	49.499	0.00	0.00
ATOM	3518	H	ALA	X	233	45.393	44.644	49.790	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.666	46.361	48.712	0.00	0.00
ATOM	3520	HA	ALA	X	233	45.163	46.771	47.833	0.00	0.00
ATOM	3521	CB	ALA	X	233	43.586	45.331	48.293	0.00	0.00
ATOM	3522	HB1	ALA	X	233	43.165	44.891	49.196	0.00	0.00
ATOM	3523	HB2	ALA	X	233	43.984	44.497	47.716	0.00	0.00
ATOM	3524	HB3	ALA	X	233	42.688	45.756	47.846	0.00	0.00
ATOM	3525	C	ALA	X	233	44.028	47.601	49.424	0.00	0.00
ATOM	3526	O	ALA	X	233	43.589	48.506	48.806	0.00	0.00
ATOM	3527	N	THR	X	234	44.072	47.693	50.783	0.00	0.00
ATOM	3528	H	THR	X	234	44.373	46.856	51.261	0.00	0.00
ATOM	3529	CA	THR	X	234	43.787	48.986	51.490	0.00	0.00
ATOM	3530	HA	THR	X	234	43.511	49.713	50.727	0.00	0.00
ATOM	3531	CB	THR	X	234	42.680	48.793	52.533	0.00	0.00
ATOM	3532	HB	THR	X	234	42.518	49.711	53.098	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.362	48.388	51.976	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.361	47.369	51.587	0.00	0.00
ATOM	3535	HG22	THR	X	234	41.149	49.116	51.194	0.00	0.00
ATOM	3536	HG23	THR	X	234	40.715	48.494	52.846	0.00	0.00
ATOM	3537	OG1	THR	X	234	42.989	47.733	53.441	0.00	0.00
ATOM	3538	HG1	THR	X	234	43.425	48.083	54.221	0.00	0.00
ATOM	3539	C	THR	X	234	45.045	49.498	52.158	0.00	0.00
ATOM	3540	O	THR	X	234	45.992	48.713	52.290	0.00	0.00
ATOM	3541	N	VAL	X	235	44.970	50.777	52.474	0.00	0.00
ATOM	3542	H	VAL	X	235	44.236	51.301	52.018	0.00	0.00
ATOM	3543	CA	VAL	X	235	45.708	51.530	53.485	0.00	0.00
ATOM	3544	HA	VAL	X	235	46.036	50.802	54.227	0.00	0.00
ATOM	3545	CB	VAL	X	235	46.835	52.262	52.695	0.00	0.00
ATOM	3546	HB	VAL	X	235	47.174	51.582	51.914	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.252	53.512	51.956	0.00	0.00
ATOM	3548	HG11	VAL	X	235	45.199	53.541	51.678	0.00	0.00
ATOM	3549	HG12	VAL	X	235	46.324	54.406	52.576	0.00	0.00
ATOM	3550	HG13	VAL	X	235	46.850	53.677	51.059	0.00	0.00
ATOM	3551	CG2	VAL	X	235	48.031	52.602	53.579	0.00	0.00
ATOM	3552	HG21	VAL	X	235	48.415	51.630	53.889	0.00	0.00
ATOM	3553	HG22	VAL	X	235	47.687	53.162	54.449	0.00	0.00
ATOM	3554	HG23	VAL	X	235	48.811	53.128	53.028	0.00	0.00
ATOM	3555	C	VAL	X	235	44.772	52.558	54.162	0.00	0.00
ATOM	3556	O	VAL	X	235	43.681	52.817	53.686	0.00	0.00
ATOM	3557	N	GLY	X	236	45.204	53.213	55.301	0.00	0.00
ATOM	3558	H	GLY	X	236	46.064	52.907	55.734	0.00	0.00
ATOM	3559	CA	GLY	X	236	44.512	54.294	55.957	0.00	0.00
ATOM	3560	HA2	GLY	X	236	43.466	54.012	55.840	0.00	0.00
ATOM	3561	HA3	GLY	X	236	44.753	54.267	57.020	0.00	0.00
ATOM	3562	C	GLY	X	236	44.844	55.722	55.389	0.00	0.00

ATOM	3563	O	GLY	X	236	46.007	56.041	55.063	0.00	0.00
ATOM	3564	N	MET	X	237	43.847	56.605	55.494	0.00	0.00
ATOM	3565	H	MET	X	237	43.030	56.257	55.975	0.00	0.00
ATOM	3566	CA	MET	X	237	43.902	57.932	55.077	0.00	0.00
ATOM	3567	HA	MET	X	237	43.861	57.951	53.988	0.00	0.00
ATOM	3568	CB	MET	X	237	42.654	58.770	55.568	0.00	0.00
ATOM	3569	HB2	MET	X	237	41.680	58.438	55.210	0.00	0.00
ATOM	3570	HB3	MET	X	237	42.574	58.642	56.648	0.00	0.00
ATOM	3571	CG	MET	X	237	42.699	60.222	55.326	0.00	0.00
ATOM	3572	HG2	MET	X	237	41.711	60.558	55.643	0.00	0.00
ATOM	3573	HG3	MET	X	237	43.500	60.698	55.891	0.00	0.00
ATOM	3574	SD	MET	X	237	42.844	60.700	53.600	0.00	0.00
ATOM	3575	CE	MET	X	237	41.109	60.688	53.047	0.00	0.00
ATOM	3576	HE1	MET	X	237	40.981	61.262	52.129	0.00	0.00
ATOM	3577	HE2	MET	X	237	40.885	59.651	52.799	0.00	0.00
ATOM	3578	HE3	MET	X	237	40.523	61.220	53.796	0.00	0.00
ATOM	3579	C	MET	X	237	45.169	58.698	55.625	0.00	0.00
ATOM	3580	O	MET	X	237	45.709	59.534	54.847	0.00	0.00
ATOM	3581	N	GLY	X	238	45.654	58.499	56.900	0.00	0.00
ATOM	3582	H	GLY	X	238	45.165	57.918	57.566	0.00	0.00
ATOM	3583	CA	GLY	X	238	46.906	59.109	57.422	0.00	0.00
ATOM	3584	HA2	GLY	X	238	46.850	60.198	57.443	0.00	0.00
ATOM	3585	HA3	GLY	X	238	46.826	58.711	58.434	0.00	0.00
ATOM	3586	C	GLY	X	238	48.193	58.718	56.726	0.00	0.00
ATOM	3587	O	GLY	X	238	49.079	59.561	56.593	0.00	0.00
ATOM	3588	N	GLU	X	239	48.260	57.431	56.298	0.00	0.00
ATOM	3589	H	GLU	X	239	47.599	56.720	56.577	0.00	0.00
ATOM	3590	CA	GLU	X	239	49.391	56.971	55.537	0.00	0.00
ATOM	3591	HA	GLU	X	239	50.354	57.344	55.885	0.00	0.00
ATOM	3592	CB	GLU	X	239	49.543	55.413	55.633	0.00	0.00
ATOM	3593	HB2	GLU	X	239	48.542	55.002	55.766	0.00	0.00
ATOM	3594	HB3	GLU	X	239	49.862	55.043	54.659	0.00	0.00
ATOM	3595	CG	GLU	X	239	50.434	54.814	56.733	0.00	0.00
ATOM	3596	HG2	GLU	X	239	49.910	55.123	57.637	0.00	0.00
ATOM	3597	HG3	GLU	X	239	50.433	53.725	56.776	0.00	0.00
ATOM	3598	CD	GLU	X	239	51.823	55.405	56.705	0.00	0.00
ATOM	3599	OE1	GLU	X	239	52.645	55.154	55.760	0.00	0.00
ATOM	3600	OE2	GLU	X	239	52.279	56.108	57.611	0.00	0.00
ATOM	3601	C	GLU	X	239	49.190	57.433	54.089	0.00	0.00
ATOM	3602	O	GLU	X	239	50.193	57.832	53.464	0.00	0.00
ATOM	3603	N	ALA	X	240	47.958	57.577	53.513	0.00	0.00
ATOM	3604	H	ALA	X	240	47.144	57.297	54.041	0.00	0.00
ATOM	3605	CA	ALA	X	240	47.880	58.061	52.111	0.00	0.00
ATOM	3606	HA	ALA	X	240	48.655	57.532	51.555	0.00	0.00
ATOM	3607	CB	ALA	X	240	46.527	57.707	51.515	0.00	0.00
ATOM	3608	HB1	ALA	X	240	46.543	56.627	51.369	0.00	0.00
ATOM	3609	HB2	ALA	X	240	46.269	58.352	50.675	0.00	0.00
ATOM	3610	HB3	ALA	X	240	45.849	57.873	52.352	0.00	0.00
ATOM	3611	C	ALA	X	240	48.310	59.539	52.096	0.00	0.00
ATOM	3612	O	ALA	X	240	49.116	59.981	51.268	0.00	0.00
ATOM	3613	N	ARG	X	241	47.907	60.228	53.192	0.00	0.00
ATOM	3614	H	ARG	X	241	47.211	59.826	53.802	0.00	0.00
ATOM	3615	CA	ARG	X	241	48.260	61.631	53.532	0.00	0.00
ATOM	3616	HA	ARG	X	241	47.948	62.262	52.699	0.00	0.00
ATOM	3617	CB	ARG	X	241	47.474	62.189	54.769	0.00	0.00
ATOM	3618	HB2	ARG	X	241	46.424	61.939	54.620	0.00	0.00
ATOM	3619	HB3	ARG	X	241	47.767	61.605	55.642	0.00	0.00
ATOM	3620	CG	ARG	X	241	47.549	63.665	55.141	0.00	0.00
ATOM	3621	HG2	ARG	X	241	48.528	64.141	55.088	0.00	0.00
ATOM	3622	HG3	ARG	X	241	46.943	64.254	54.452	0.00	0.00
ATOM	3623	CD	ARG	X	241	46.898	63.912	56.481	0.00	0.00
ATOM	3624	HD2	ARG	X	241	46.109	63.166	56.573	0.00	0.00
ATOM	3625	HD3	ARG	X	241	47.594	63.679	57.287	0.00	0.00
ATOM	3626	NE	ARG	X	241	46.449	65.283	56.560	0.00	0.00
ATOM	3627	HE	ARG	X	241	46.555	65.795	55.696	0.00	0.00
ATOM	3628	CZ	ARG	X	241	46.266	66.143	57.612	0.00	0.00
ATOM	3629	NH1	ARG	X	241	46.016	65.676	58.806	0.00	0.00

ATOM	3630	HH11	ARG	X	241	45.870	64.686	58.941	0.00	0.00
ATOM	3631	HH12	ARG	X	241	45.697	66.354	59.483	0.00	0.00
ATOM	3632	NH2	ARG	X	241	46.396	67.460	57.616	0.00	0.00
ATOM	3633	HH21	ARG	X	241	46.519	68.034	56.794	0.00	0.00
ATOM	3634	HH22	ARG	X	241	46.327	67.828	58.554	0.00	0.00
ATOM	3635	C	ARG	X	241	49.773	61.773	53.727	0.00	0.00
ATOM	3636	O	ARG	X	241	50.293	62.718	53.136	0.00	0.00
ATOM	3637	N	ARG	X	242	50.424	60.818	54.277	0.00	0.00
ATOM	3638	H	ARG	X	242	49.964	59.965	54.562	0.00	0.00
ATOM	3639	CA	ARG	X	242	51.901	60.881	54.320	0.00	0.00
ATOM	3640	HA	ARG	X	242	52.164	61.857	54.728	0.00	0.00
ATOM	3641	CB	ARG	X	242	52.429	59.793	55.203	0.00	0.00
ATOM	3642	HB2	ARG	X	242	51.678	59.604	55.970	0.00	0.00
ATOM	3643	HB3	ARG	X	242	52.419	58.857	54.645	0.00	0.00
ATOM	3644	CG	ARG	X	242	53.855	60.033	55.751	0.00	0.00
ATOM	3645	HG2	ARG	X	242	54.529	60.260	54.925	0.00	0.00
ATOM	3646	HG3	ARG	X	242	53.805	60.799	56.524	0.00	0.00
ATOM	3647	CD	ARG	X	242	54.421	58.794	56.487	0.00	0.00
ATOM	3648	HD2	ARG	X	242	55.427	58.955	56.875	0.00	0.00
ATOM	3649	HD3	ARG	X	242	53.786	58.605	57.352	0.00	0.00
ATOM	3650	NE	ARG	X	242	54.396	57.524	55.725	0.00	0.00
ATOM	3651	HE	ARG	X	242	53.835	56.728	55.994	0.00	0.00
ATOM	3652	CZ	ARG	X	242	54.782	57.374	54.427	0.00	0.00
ATOM	3653	NH1	ARG	X	242	55.690	58.207	53.959	0.00	0.00
ATOM	3654	HH11	ARG	X	242	56.045	58.925	54.574	0.00	0.00
ATOM	3655	HH12	ARG	X	242	56.026	58.081	53.015	0.00	0.00
ATOM	3656	NH2	ARG	X	242	54.280	56.340	53.842	0.00	0.00
ATOM	3657	HH21	ARG	X	242	53.652	55.791	54.412	0.00	0.00
ATOM	3658	HH22	ARG	X	242	54.657	56.096	52.938	0.00	0.00
ATOM	3659	C	ARG	X	242	52.522	60.681	52.909	0.00	0.00
ATOM	3660	O	ARG	X	242	53.247	61.556	52.463	0.00	0.00
ATOM	3661	N	ARG	X	243	52.163	59.667	52.102	0.00	0.00
ATOM	3662	H	ARG	X	243	51.649	58.869	52.447	0.00	0.00
ATOM	3663	CA	ARG	X	243	52.715	59.544	50.765	0.00	0.00
ATOM	3664	HA	ARG	X	243	53.794	59.543	50.920	0.00	0.00
ATOM	3665	CB	ARG	X	243	52.132	58.246	50.148	0.00	0.00
ATOM	3666	HB2	ARG	X	243	51.047	58.348	50.140	0.00	0.00
ATOM	3667	HB3	ARG	X	243	52.563	58.090	49.159	0.00	0.00
ATOM	3668	CG	ARG	X	243	52.645	56.990	50.894	0.00	0.00
ATOM	3669	HG2	ARG	X	243	53.734	57.020	50.878	0.00	0.00
ATOM	3670	HG3	ARG	X	243	52.281	57.033	51.921	0.00	0.00
ATOM	3671	CD	ARG	X	243	52.145	55.727	50.221	0.00	0.00
ATOM	3672	HD2	ARG	X	243	51.130	55.889	49.857	0.00	0.00
ATOM	3673	HD3	ARG	X	243	52.719	55.471	49.330	0.00	0.00
ATOM	3674	NE	ARG	X	243	52.193	54.499	51.076	0.00	0.00
ATOM	3675	HE	ARG	X	243	52.545	54.593	52.017	0.00	0.00
ATOM	3676	CZ	ARG	X	243	51.861	53.283	50.681	0.00	0.00
ATOM	3677	NH1	ARG	X	243	51.677	52.989	49.420	0.00	0.00
ATOM	3678	HH11	ARG	X	243	51.699	53.716	48.719	0.00	0.00
ATOM	3679	HH12	ARG	X	243	51.620	52.023	49.128	0.00	0.00
ATOM	3680	NH2	ARG	X	243	51.731	52.288	51.571	0.00	0.00
ATOM	3681	HH21	ARG	X	243	51.714	52.547	52.547	0.00	0.00
ATOM	3682	HH22	ARG	X	243	51.629	51.297	51.403	0.00	0.00
ATOM	3683	C	ARG	X	243	52.467	60.802	49.953	0.00	0.00
ATOM	3684	O	ARG	X	243	53.363	61.233	49.223	0.00	0.00
ATOM	3685	N	ALA	X	244	51.270	61.345	50.138	0.00	0.00
ATOM	3686	H	ALA	X	244	50.585	60.856	50.696	0.00	0.00
ATOM	3687	CA	ALA	X	244	50.877	62.561	49.415	0.00	0.00
ATOM	3688	HA	ALA	X	244	50.950	62.365	48.345	0.00	0.00
ATOM	3689	CB	ALA	X	244	49.359	62.696	49.747	0.00	0.00
ATOM	3690	HB1	ALA	X	244	48.941	63.549	49.212	0.00	0.00
ATOM	3691	HB2	ALA	X	244	49.105	62.844	50.796	0.00	0.00
ATOM	3692	HB3	ALA	X	244	48.827	61.804	49.417	0.00	0.00
ATOM	3693	C	ALA	X	244	51.802	63.738	49.735	0.00	0.00
ATOM	3694	O	ALA	X	244	52.392	64.252	48.804	0.00	0.00
ATOM	3695	N	THR	X	245	51.898	64.104	51.025	0.00	0.00
ATOM	3696	H	THR	X	245	51.295	63.582	51.645	0.00	0.00

ATOM	3697	CA	THR	X	245	52.766	65.163	51.645	0.00	0.00
ATOM	3698	HA	THR	X	245	52.497	66.137	51.237	0.00	0.00
ATOM	3699	CB	THR	X	245	52.676	65.157	53.212	0.00	0.00
ATOM	3700	HB	THR	X	245	53.109	64.266	53.667	0.00	0.00
ATOM	3701	CG2	THR	X	245	53.398	66.447	53.716	0.00	0.00
ATOM	3702	HG21	THR	X	245	53.121	66.498	54.769	0.00	0.00
ATOM	3703	HG22	THR	X	245	53.146	67.350	53.160	0.00	0.00
ATOM	3704	HG23	THR	X	245	54.470	66.323	53.563	0.00	0.00
ATOM	3705	OG1	THR	X	245	51.308	65.279	53.491	0.00	0.00
ATOM	3706	HG1	THR	X	245	50.867	64.429	53.425	0.00	0.00
ATOM	3707	C	THR	X	245	54.256	64.894	51.205	0.00	0.00
ATOM	3708	O	THR	X	245	54.964	65.774	50.830	0.00	0.00
ATOM	3709	N	GLN	X	246	54.748	63.689	51.277	0.00	0.00
ATOM	3710	H	GLN	X	246	54.123	63.024	51.708	0.00	0.00
ATOM	3711	CA	GLN	X	246	56.068	63.314	50.733	0.00	0.00
ATOM	3712	HA	GLN	X	246	56.662	64.127	51.150	0.00	0.00
ATOM	3713	CB	GLN	X	246	56.589	61.891	51.057	0.00	0.00
ATOM	3714	HB2	GLN	X	246	56.574	61.822	52.144	0.00	0.00
ATOM	3715	HB3	GLN	X	246	55.955	61.099	50.657	0.00	0.00
ATOM	3716	CG	GLN	X	246	58.064	61.650	50.586	0.00	0.00
ATOM	3717	HG2	GLN	X	246	58.114	61.449	49.516	0.00	0.00
ATOM	3718	HG3	GLN	X	246	58.599	62.587	50.744	0.00	0.00
ATOM	3719	CD	GLN	X	246	58.946	60.643	51.340	0.00	0.00
ATOM	3720	OE1	GLN	X	246	59.467	59.621	50.833	0.00	0.00
ATOM	3721	NE2	GLN	X	246	59.058	60.813	52.652	0.00	0.00
ATOM	3722	HE21	GLN	X	246	59.514	60.072	53.165	0.00	0.00
ATOM	3723	HE22	GLN	X	246	58.788	61.684	53.085	0.00	0.00
ATOM	3724	C	GLN	X	246	56.172	63.460	49.203	0.00	0.00
ATOM	3725	O	GLN	X	246	57.259	63.796	48.772	0.00	0.00
ATOM	3726	N	LEU	X	247	55.132	63.333	48.396	0.00	0.00
ATOM	3727	H	LEU	X	247	54.276	62.915	48.732	0.00	0.00
ATOM	3728	CA	LEU	X	247	55.171	63.516	46.955	0.00	0.00
ATOM	3729	HA	LEU	X	247	56.160	63.134	46.703	0.00	0.00
ATOM	3730	CB	LEU	X	247	54.014	62.711	46.322	0.00	0.00
ATOM	3731	HB2	LEU	X	247	54.073	61.720	46.772	0.00	0.00
ATOM	3732	HB3	LEU	X	247	53.039	63.141	46.552	0.00	0.00
ATOM	3733	CG	LEU	X	247	54.243	62.525	44.773	0.00	0.00
ATOM	3734	HG	LEU	X	247	54.167	63.507	44.306	0.00	0.00
ATOM	3735	CD1	LEU	X	247	55.686	61.979	44.479	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.758	61.689	43.431	0.00	0.00
ATOM	3737	HD12	LEU	X	247	55.983	61.125	45.088	0.00	0.00
ATOM	3738	HD13	LEU	X	247	56.331	62.836	44.674	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.196	61.607	44.153	0.00	0.00
ATOM	3740	HD21	LEU	X	247	52.817	60.825	44.811	0.00	0.00
ATOM	3741	HD22	LEU	X	247	52.419	62.281	43.793	0.00	0.00
ATOM	3742	HD23	LEU	X	247	53.605	60.988	43.354	0.00	0.00
ATOM	3743	C	LEU	X	247	55.266	65.024	46.660	0.00	0.00
ATOM	3744	O	LEU	X	247	56.144	65.459	45.875	0.00	0.00
ATOM	3745	N	ALA	X	248	54.262	65.776	47.125	0.00	0.00
ATOM	3746	H	ALA	X	248	53.583	65.252	47.658	0.00	0.00
ATOM	3747	CA	ALA	X	248	54.477	67.229	47.284	0.00	0.00
ATOM	3748	HA	ALA	X	248	54.251	67.560	46.270	0.00	0.00
ATOM	3749	CB	ALA	X	248	53.340	67.789	48.185	0.00	0.00
ATOM	3750	HB1	ALA	X	248	53.469	68.871	48.207	0.00	0.00
ATOM	3751	HB2	ALA	X	248	53.527	67.317	49.149	0.00	0.00
ATOM	3752	HB3	ALA	X	248	52.371	67.551	47.745	0.00	0.00
ATOM	3753	C	ALA	X	248	55.803	67.713	47.660	0.00	0.00
ATOM	3754	O	ALA	X	248	56.429	68.386	46.820	0.00	0.00
ATOM	3755	N	HIE	X	249	56.374	67.265	48.802	0.00	0.00
ATOM	3756	H	HIE	X	249	55.954	66.736	49.553	0.00	0.00
ATOM	3757	CA	HIE	X	249	57.780	67.518	49.145	0.00	0.00
ATOM	3758	HA	HIE	X	249	57.868	68.590	49.321	0.00	0.00
ATOM	3759	CB	HIE	X	249	58.033	66.768	50.490	0.00	0.00
ATOM	3760	HB2	HIE	X	249	57.136	66.888	51.097	0.00	0.00
ATOM	3761	HB3	HIE	X	249	58.201	65.700	50.346	0.00	0.00
ATOM	3762	CG	HIE	X	249	59.213	67.351	51.279	0.00	0.00
ATOM	3763	ND1	HIE	X	249	59.661	68.694	51.410	0.00	0.00

ATOM	3764	CE1	HIE	X	249	60.707	68.643	52.257	0.00	0.00
ATOM	3765	HE1	HIE	X	249	61.270	69.539	52.479	0.00	0.00
ATOM	3766	NE2	HIE	X	249	61.049	67.433	52.589	0.00	0.00
ATOM	3767	HE2	HIE	X	249	61.778	67.013	53.148	0.00	0.00
ATOM	3768	CD2	HIE	X	249	60.136	66.640	51.931	0.00	0.00
ATOM	3769	HD2	HIE	X	249	60.146	65.560	51.938	0.00	0.00
ATOM	3770	C	HIE	X	249	58.832	67.168	48.117	0.00	0.00
ATOM	3771	O	HIE	X	249	59.849	67.808	48.009	0.00	0.00
ATOM	3772	N	LEU	X	250	58.614	66.106	47.296	0.00	0.00
ATOM	3773	H	LEU	X	250	57.786	65.568	47.509	0.00	0.00
ATOM	3774	CA	LEU	X	250	59.447	65.702	46.131	0.00	0.00
ATOM	3775	HA	LEU	X	250	60.498	65.828	46.394	0.00	0.00
ATOM	3776	CB	LEU	X	250	59.176	64.142	45.868	0.00	0.00
ATOM	3777	HB2	LEU	X	250	58.123	63.939	46.064	0.00	0.00
ATOM	3778	HB3	LEU	X	250	59.356	63.971	44.807	0.00	0.00
ATOM	3779	CG	LEU	X	250	60.143	63.207	46.633	0.00	0.00
ATOM	3780	HG	LEU	X	250	60.396	63.609	47.614	0.00	0.00
ATOM	3781	CD1	LEU	X	250	59.541	61.814	46.750	0.00	0.00
ATOM	3782	HD11	LEU	X	250	60.103	61.327	47.547	0.00	0.00
ATOM	3783	HD12	LEU	X	250	59.454	61.284	45.802	0.00	0.00
ATOM	3784	HD13	LEU	X	250	58.575	61.912	47.245	0.00	0.00
ATOM	3785	CD2	LEU	X	250	61.520	63.241	45.872	0.00	0.00
ATOM	3786	HD21	LEU	X	250	61.516	62.365	45.224	0.00	0.00
ATOM	3787	HD22	LEU	X	250	61.797	64.156	45.347	0.00	0.00
ATOM	3788	HD23	LEU	X	250	62.321	63.087	46.594	0.00	0.00
ATOM	3789	C	LEU	X	250	59.271	66.451	44.809	0.00	0.00
ATOM	3790	O	LEU	X	250	60.265	66.906	44.250	0.00	0.00
ATOM	3791	N	VAL	X	251	58.049	66.658	44.373	0.00	0.00
ATOM	3792	H	VAL	X	251	57.296	66.191	44.856	0.00	0.00
ATOM	3793	CA	VAL	X	251	57.573	67.448	43.211	0.00	0.00
ATOM	3794	HA	VAL	X	251	58.100	67.043	42.347	0.00	0.00
ATOM	3795	CB	VAL	X	251	56.040	67.321	43.000	0.00	0.00
ATOM	3796	HB	VAL	X	251	55.573	67.376	43.984	0.00	0.00
ATOM	3797	CG1	VAL	X	251	55.531	68.463	42.122	0.00	0.00
ATOM	3798	HG11	VAL	X	251	54.441	68.467	42.152	0.00	0.00
ATOM	3799	HG12	VAL	X	251	55.718	69.465	42.507	0.00	0.00
ATOM	3800	HG13	VAL	X	251	55.756	68.370	41.060	0.00	0.00
ATOM	3801	CG2	VAL	X	251	55.770	65.928	42.311	0.00	0.00
ATOM	3802	HG21	VAL	X	251	54.771	65.585	42.581	0.00	0.00
ATOM	3803	HG22	VAL	X	251	56.437	65.185	42.747	0.00	0.00
ATOM	3804	HG23	VAL	X	251	56.036	66.105	41.269	0.00	0.00
ATOM	3805	C	VAL	X	251	57.986	68.896	43.437	0.00	0.00
ATOM	3806	O	VAL	X	251	58.544	69.484	42.490	0.00	0.00
ATOM	3807	N	GLY	X	252	57.636	69.421	44.621	0.00	0.00
ATOM	3808	H	GLY	X	252	57.240	68.831	45.339	0.00	0.00
ATOM	3809	CA	GLY	X	252	57.883	70.778	45.008	0.00	0.00
ATOM	3810	HA2	GLY	X	252	58.542	70.684	45.871	0.00	0.00
ATOM	3811	HA3	GLY	X	252	58.528	71.296	44.298	0.00	0.00
ATOM	3812	C	GLY	X	252	56.731	71.686	45.439	0.00	0.00
ATOM	3813	O	GLY	X	252	56.588	72.820	45.005	0.00	0.00
ATOM	3814	N	CYX	X	253	55.849	71.168	46.243	0.00	0.00
ATOM	3815	H	CYX	X	253	55.949	70.217	46.568	0.00	0.00
ATOM	3816	CA	CYX	X	253	54.567	71.778	46.494	0.00	0.00
ATOM	3817	HA	CYX	X	253	54.495	72.740	45.987	0.00	0.00
ATOM	3818	CB	CYX	X	253	53.582	70.844	45.675	0.00	0.00
ATOM	3819	HB2	CYX	X	253	53.955	69.835	45.855	0.00	0.00
ATOM	3820	HB3	CYX	X	253	52.587	70.811	46.120	0.00	0.00
ATOM	3821	SG	CYX	X	253	53.515	71.070	43.872	0.00	0.00
ATOM	3822	C	CYX	X	253	54.145	71.843	48.034	0.00	0.00
ATOM	3823	O	CYX	X	253	54.566	70.978	48.762	0.00	0.00
ATOM	3824	N	PRO	X	254	53.308	72.846	48.450	0.00	0.00
ATOM	3825	CD	PRO	X	254	52.771	73.002	49.851	0.00	0.00
ATOM	3826	HD2	PRO	X	254	53.630	72.931	50.518	0.00	0.00
ATOM	3827	HD3	PRO	X	254	52.065	72.221	50.135	0.00	0.00
ATOM	3828	CG	PRO	X	254	52.176	74.365	49.917	0.00	0.00
ATOM	3829	HG2	PRO	X	254	52.936	75.104	50.174	0.00	0.00
ATOM	3830	HG3	PRO	X	254	51.371	74.565	50.625	0.00	0.00

ATOM	3831	CB	PRO	X	254	51.626	74.677	48.563	0.00	0.00
ATOM	3832	HB2	PRO	X	254	51.613	75.720	48.246	0.00	0.00
ATOM	3833	HB3	PRO	X	254	50.707	74.143	48.327	0.00	0.00
ATOM	3834	CA	PRO	X	254	52.763	74.013	47.706	0.00	0.00
ATOM	3835	HA	PRO	X	254	52.348	73.596	46.789	0.00	0.00
ATOM	3836	C	PRO	X	254	53.882	74.993	47.424	0.00	0.00
ATOM	3837	O	PRO	X	254	54.953	74.823	47.971	0.00	0.00
ATOM	3838	N	PRO	X	255	53.575	75.949	46.561	0.00	0.00
ATOM	3839	CD	PRO	X	255	52.419	76.190	45.801	0.00	0.00
ATOM	3840	HD2	PRO	X	255	51.466	75.932	46.263	0.00	0.00
ATOM	3841	HD3	PRO	X	255	52.484	75.598	44.888	0.00	0.00
ATOM	3842	CG	PRO	X	255	52.389	77.677	45.300	0.00	0.00
ATOM	3843	HG2	PRO	X	255	51.862	78.324	46.001	0.00	0.00
ATOM	3844	HG3	PRO	X	255	51.940	77.827	44.319	0.00	0.00
ATOM	3845	CB	PRO	X	255	53.874	77.946	45.275	0.00	0.00
ATOM	3846	HB2	PRO	X	255	54.053	79.013	45.411	0.00	0.00
ATOM	3847	HB3	PRO	X	255	54.251	77.565	44.326	0.00	0.00
ATOM	3848	CA	PRO	X	255	54.495	77.105	46.364	0.00	0.00
ATOM	3849	HA	PRO	X	255	55.427	76.654	46.026	0.00	0.00
ATOM	3850	C	PRO	X	255	54.741	77.841	47.688	0.00	0.00
ATOM	3851	O	PRO	X	255	53.909	77.879	48.616	0.00	0.00
ATOM	3852	N	GLY	X	256	55.891	78.457	47.764	0.00	0.00
ATOM	3853	H	GLY	X	256	56.391	78.493	46.887	0.00	0.00
ATOM	3854	CA	GLY	X	256	56.287	79.290	48.902	0.00	0.00
ATOM	3855	HA2	GLY	X	256	57.067	79.923	48.480	0.00	0.00
ATOM	3856	HA3	GLY	X	256	55.469	79.880	49.315	0.00	0.00
ATOM	3857	C	GLY	X	256	56.936	78.482	50.049	0.00	0.00
ATOM	3858	O	GLY	X	256	57.363	79.102	51.017	0.00	0.00
ATOM	3859	N	GLY	X	257	57.113	77.139	49.921	0.00	0.00
ATOM	3860	H	GLY	X	257	56.910	76.777	49.000	0.00	0.00
ATOM	3861	CA	GLY	X	257	57.767	76.213	50.792	0.00	0.00
ATOM	3862	HA2	GLY	X	257	58.647	75.819	50.283	0.00	0.00
ATOM	3863	HA3	GLY	X	257	58.044	76.609	51.769	0.00	0.00
ATOM	3864	C	GLY	X	257	56.898	74.945	51.065	0.00	0.00
ATOM	3865	O	GLY	X	257	55.643	75.006	51.017	0.00	0.00
ATOM	3866	N	THR	X	258	57.561	73.785	51.167	0.00	0.00
ATOM	3867	H	THR	X	258	58.570	73.761	51.200	0.00	0.00
ATOM	3868	CA	THR	X	258	56.862	72.455	51.249	0.00	0.00
ATOM	3869	HA	THR	X	258	56.041	72.463	50.531	0.00	0.00
ATOM	3870	CB	THR	X	258	57.878	71.366	50.894	0.00	0.00
ATOM	3871	HB	THR	X	258	57.462	70.393	51.155	0.00	0.00
ATOM	3872	CG2	THR	X	258	58.321	71.352	49.425	0.00	0.00
ATOM	3873	HG21	THR	X	258	59.030	70.574	49.141	0.00	0.00
ATOM	3874	HG22	THR	X	258	58.492	72.359	49.045	0.00	0.00
ATOM	3875	HG23	THR	X	258	57.457	71.027	48.845	0.00	0.00
ATOM	3876	OG1	THR	X	258	58.888	71.520	51.799	0.00	0.00
ATOM	3877	HG1	THR	X	258	59.549	70.877	51.530	0.00	0.00
ATOM	3878	C	THR	X	258	56.262	72.288	52.618	0.00	0.00
ATOM	3879	O	THR	X	258	56.755	72.879	53.650	0.00	0.00
ATOM	3880	N	GLY	X	259	55.234	71.446	52.801	0.00	0.00
ATOM	3881	H	GLY	X	259	54.843	70.966	52.003	0.00	0.00
ATOM	3882	CA	GLY	X	259	54.455	71.344	54.050	0.00	0.00
ATOM	3883	HA2	GLY	X	259	54.142	70.300	54.059	0.00	0.00
ATOM	3884	HA3	GLY	X	259	55.053	71.530	54.942	0.00	0.00
ATOM	3885	C	GLY	X	259	53.185	72.182	53.971	0.00	0.00
ATOM	3886	O	GLY	X	259	52.871	72.605	52.849	0.00	0.00
ATOM	3887	N	GLY	X	260	52.598	72.528	55.136	0.00	0.00
ATOM	3888	H	GLY	X	260	52.938	72.135	56.003	0.00	0.00
ATOM	3889	CA	GLY	X	260	51.433	73.483	55.213	0.00	0.00
ATOM	3890	HA2	GLY	X	260	51.201	73.976	56.157	0.00	0.00
ATOM	3891	HA3	GLY	X	260	51.610	74.312	54.528	0.00	0.00
ATOM	3892	C	GLY	X	260	50.141	72.765	54.791	0.00	0.00
ATOM	3893	O	GLY	X	260	50.064	71.497	54.763	0.00	0.00
ATOM	3894	N	ASN	X	261	49.098	73.467	54.490	0.00	0.00
ATOM	3895	H	ASN	X	261	49.342	74.434	54.329	0.00	0.00
ATOM	3896	CA	ASN	X	261	47.741	73.009	54.312	0.00	0.00
ATOM	3897	HA	ASN	X	261	47.524	72.471	55.235	0.00	0.00

ATOM	3898	CB	ASN	X	261	46.754	74.123	54.421	0.00	0.00
ATOM	3899	HB2	ASN	X	261	46.922	74.743	55.302	0.00	0.00
ATOM	3900	HB3	ASN	X	261	47.058	74.810	53.631	0.00	0.00
ATOM	3901	CG	ASN	X	261	45.235	73.782	54.363	0.00	0.00
ATOM	3902	OD1	ASN	X	261	44.787	72.742	53.953	0.00	0.00
ATOM	3903	ND2	ASN	X	261	44.420	74.778	54.813	0.00	0.00
ATOM	3904	HD21	ASN	X	261	43.433	74.605	54.934	0.00	0.00
ATOM	3905	HD22	ASN	X	261	44.881	75.623	55.119	0.00	0.00
ATOM	3906	C	ASN	X	261	47.557	72.063	53.117	0.00	0.00
ATOM	3907	O	ASN	X	261	48.036	72.281	52.005	0.00	0.00
ATOM	3908	N	ASP	X	262	46.886	70.889	53.351	0.00	0.00
ATOM	3909	H	ASP	X	262	46.665	70.715	54.321	0.00	0.00
ATOM	3910	CA	ASP	X	262	46.560	69.729	52.447	0.00	0.00
ATOM	3911	HA	ASP	X	262	47.495	69.222	52.211	0.00	0.00
ATOM	3912	CB	ASP	X	262	45.609	68.758	53.195	0.00	0.00
ATOM	3913	HB2	ASP	X	262	44.614	69.202	53.242	0.00	0.00
ATOM	3914	HB3	ASP	X	262	45.583	67.847	52.598	0.00	0.00
ATOM	3915	CG	ASP	X	262	46.096	68.388	54.602	0.00	0.00
ATOM	3916	OD1	ASP	X	262	46.563	67.265	54.730	0.00	0.00
ATOM	3917	OD2	ASP	X	262	45.999	69.302	55.471	0.00	0.00
ATOM	3918	C	ASP	X	262	45.974	70.182	51.058	0.00	0.00
ATOM	3919	O	ASP	X	262	46.430	69.746	50.022	0.00	0.00
ATOM	3920	N	THR	X	263	45.139	71.245	51.065	0.00	0.00
ATOM	3921	H	THR	X	263	45.122	71.792	51.914	0.00	0.00
ATOM	3922	CA	THR	X	263	44.269	71.615	49.942	0.00	0.00
ATOM	3923	HA	THR	X	263	44.020	70.691	49.420	0.00	0.00
ATOM	3924	CB	THR	X	263	42.985	72.338	50.348	0.00	0.00
ATOM	3925	HB	THR	X	263	42.445	72.406	49.403	0.00	0.00
ATOM	3926	CG2	THR	X	263	42.066	71.621	51.352	0.00	0.00
ATOM	3927	HG21	THR	X	263	41.683	70.713	50.888	0.00	0.00
ATOM	3928	HG22	THR	X	263	41.188	72.236	51.547	0.00	0.00
ATOM	3929	HG23	THR	X	263	42.588	71.402	52.283	0.00	0.00
ATOM	3930	OG1	THR	X	263	43.280	73.519	50.932	0.00	0.00
ATOM	3931	HG1	THR	X	263	42.757	74.269	50.639	0.00	0.00
ATOM	3932	C	THR	X	263	45.057	72.449	48.962	0.00	0.00
ATOM	3933	O	THR	X	263	44.875	72.238	47.769	0.00	0.00
ATOM	3934	N	GLU	X	264	45.865	73.405	49.442	0.00	0.00
ATOM	3935	H	GLU	X	264	45.626	73.582	50.407	0.00	0.00
ATOM	3936	CA	GLU	X	264	46.797	74.250	48.658	0.00	0.00
ATOM	3937	HA	GLU	X	264	46.304	74.393	47.696	0.00	0.00
ATOM	3938	CB	GLU	X	264	46.976	75.610	49.335	0.00	0.00
ATOM	3939	HB2	GLU	X	264	47.320	75.438	50.355	0.00	0.00
ATOM	3940	HB3	GLU	X	264	47.755	76.171	48.818	0.00	0.00
ATOM	3941	CG	GLU	X	264	45.709	76.403	49.459	0.00	0.00
ATOM	3942	HG2	GLU	X	264	44.910	75.853	49.956	0.00	0.00
ATOM	3943	HG3	GLU	X	264	45.827	77.276	50.101	0.00	0.00
ATOM	3944	CD	GLU	X	264	45.327	76.866	48.079	0.00	0.00
ATOM	3945	OE1	GLU	X	264	44.308	76.400	47.483	0.00	0.00
ATOM	3946	OE2	GLU	X	264	45.932	77.789	47.535	0.00	0.00
ATOM	3947	C	GLU	X	264	48.031	73.329	48.337	0.00	0.00
ATOM	3948	O	GLU	X	264	48.619	73.444	47.275	0.00	0.00
ATOM	3949	N	LEU	X	265	48.434	72.358	49.165	0.00	0.00
ATOM	3950	H	LEU	X	265	48.152	72.426	50.133	0.00	0.00
ATOM	3951	CA	LEU	X	265	49.426	71.381	48.842	0.00	0.00
ATOM	3952	HA	LEU	X	265	50.338	71.957	48.685	0.00	0.00
ATOM	3953	CB	LEU	X	265	49.692	70.538	50.133	0.00	0.00
ATOM	3954	HB2	LEU	X	265	50.108	71.274	50.822	0.00	0.00
ATOM	3955	HB3	LEU	X	265	48.755	70.178	50.556	0.00	0.00
ATOM	3956	CG	LEU	X	265	50.663	69.342	50.034	0.00	0.00
ATOM	3957	HG	LEU	X	265	51.254	69.313	49.119	0.00	0.00
ATOM	3958	CD1	LEU	X	265	51.764	69.385	51.118	0.00	0.00
ATOM	3959	HD11	LEU	X	265	52.454	70.225	51.035	0.00	0.00
ATOM	3960	HD12	LEU	X	265	52.481	68.583	50.942	0.00	0.00
ATOM	3961	HD13	LEU	X	265	51.277	69.261	52.085	0.00	0.00
ATOM	3962	CD2	LEU	X	265	49.846	68.027	50.196	0.00	0.00
ATOM	3963	HD21	LEU	X	265	48.917	67.976	49.628	0.00	0.00
ATOM	3964	HD22	LEU	X	265	50.471	67.180	49.912	0.00	0.00

ATOM	3965	HD23	LEU	X	265	49.474	67.914	51.214	0.00	0.00
ATOM	3966	C	LEU	X	265	49.089	70.693	47.545	0.00	0.00
ATOM	3967	O	LEU	X	265	49.880	70.666	46.622	0.00	0.00
ATOM	3968	N	VAL	X	266	47.879	70.083	47.528	0.00	0.00
ATOM	3969	H	VAL	X	266	47.402	69.970	48.411	0.00	0.00
ATOM	3970	CA	VAL	X	266	47.396	69.235	46.452	0.00	0.00
ATOM	3971	HA	VAL	X	266	48.259	68.625	46.184	0.00	0.00
ATOM	3972	CB	VAL	X	266	46.358	68.201	46.966	0.00	0.00
ATOM	3973	HB	VAL	X	266	46.722	67.912	47.952	0.00	0.00
ATOM	3974	CG1	VAL	X	266	44.942	68.739	47.281	0.00	0.00
ATOM	3975	HG11	VAL	X	266	44.530	69.042	46.319	0.00	0.00
ATOM	3976	HG12	VAL	X	266	44.374	68.050	47.907	0.00	0.00
ATOM	3977	HG13	VAL	X	266	44.995	69.686	47.817	0.00	0.00
ATOM	3978	CG2	VAL	X	266	46.504	66.898	46.218	0.00	0.00
ATOM	3979	HG21	VAL	X	266	47.538	66.564	46.303	0.00	0.00
ATOM	3980	HG22	VAL	X	266	46.254	66.996	45.161	0.00	0.00
ATOM	3981	HG23	VAL	X	266	45.757	66.201	46.598	0.00	0.00
ATOM	3982	C	VAL	X	266	46.970	70.161	45.284	0.00	0.00
ATOM	3983	O	VAL	X	266	47.107	69.774	44.139	0.00	0.00
ATOM	3984	N	ALA	X	267	46.505	71.388	45.494	0.00	0.00
ATOM	3985	H	ALA	X	267	46.191	71.689	46.405	0.00	0.00
ATOM	3986	CA	ALA	X	267	46.281	72.356	44.440	0.00	0.00
ATOM	3987	HA	ALA	X	267	45.571	71.947	43.721	0.00	0.00
ATOM	3988	CB	ALA	X	267	45.735	73.626	45.025	0.00	0.00
ATOM	3989	HB1	ALA	X	267	45.557	74.335	44.217	0.00	0.00
ATOM	3990	HB2	ALA	X	267	46.460	74.076	45.703	0.00	0.00
ATOM	3991	HB3	ALA	X	267	44.846	73.463	45.636	0.00	0.00
ATOM	3992	C	ALA	X	267	47.457	72.562	43.561	0.00	0.00
ATOM	3993	O	ALA	X	267	47.361	72.458	42.354	0.00	0.00
ATOM	3994	N	CYX	X	268	48.649	72.735	44.131	0.00	0.00
ATOM	3995	H	CYX	X	268	48.667	72.564	45.126	0.00	0.00
ATOM	3996	CA	CYX	X	268	49.919	72.780	43.353	0.00	0.00
ATOM	3997	HA	CYX	X	268	49.844	73.583	42.619	0.00	0.00
ATOM	3998	CB	CYX	X	268	51.115	72.953	44.375	0.00	0.00
ATOM	3999	HB2	CYX	X	268	50.847	73.809	44.995	0.00	0.00
ATOM	4000	HB3	CYX	X	268	51.026	72.086	45.029	0.00	0.00
ATOM	4001	SG	CYX	X	268	52.792	73.003	43.751	0.00	0.00
ATOM	4002	C	CYX	X	268	50.050	71.497	42.517	0.00	0.00
ATOM	4003	O	CYX	X	268	50.333	71.539	41.352	0.00	0.00
ATOM	4004	N	LEU	X	269	49.765	70.339	43.121	0.00	0.00
ATOM	4005	H	LEU	X	269	49.420	70.352	44.071	0.00	0.00
ATOM	4006	CA	LEU	X	269	49.964	69.020	42.578	0.00	0.00
ATOM	4007	HA	LEU	X	269	50.884	69.052	41.993	0.00	0.00
ATOM	4008	CB	LEU	X	269	49.837	68.065	43.806	0.00	0.00
ATOM	4009	HB2	LEU	X	269	50.140	68.622	44.693	0.00	0.00
ATOM	4010	HB3	LEU	X	269	48.777	67.871	43.972	0.00	0.00
ATOM	4011	CG	LEU	X	269	50.795	66.866	43.749	0.00	0.00
ATOM	4012	HG	LEU	X	269	50.533	66.297	42.857	0.00	0.00
ATOM	4013	CD1	LEU	X	269	52.244	67.325	43.842	0.00	0.00
ATOM	4014	HD11	LEU	X	269	52.454	68.000	43.013	0.00	0.00
ATOM	4015	HD12	LEU	X	269	52.883	66.444	43.899	0.00	0.00
ATOM	4016	HD13	LEU	X	269	52.534	67.934	44.699	0.00	0.00
ATOM	4017	CD2	LEU	X	269	50.591	65.836	44.867	0.00	0.00
ATOM	4018	HD21	LEU	X	269	49.590	65.424	44.744	0.00	0.00
ATOM	4019	HD22	LEU	X	269	51.278	65.008	44.691	0.00	0.00
ATOM	4020	HD23	LEU	X	269	50.751	66.151	45.898	0.00	0.00
ATOM	4021	C	LEU	X	269	48.868	68.752	41.481	0.00	0.00
ATOM	4022	O	LEU	X	269	49.119	67.799	40.750	0.00	0.00
ATOM	4023	N	ARG	X	270	47.900	69.595	41.141	0.00	0.00
ATOM	4024	H	ARG	X	270	47.842	70.482	41.620	0.00	0.00
ATOM	4025	CA	ARG	X	270	47.057	69.404	39.946	0.00	0.00
ATOM	4026	HA	ARG	X	270	47.007	68.349	39.675	0.00	0.00
ATOM	4027	CB	ARG	X	270	45.637	69.947	40.144	0.00	0.00
ATOM	4028	HB2	ARG	X	270	45.601	70.985	40.474	0.00	0.00
ATOM	4029	HB3	ARG	X	270	45.067	69.940	39.215	0.00	0.00
ATOM	4030	CG	ARG	X	270	44.850	69.238	41.334	0.00	0.00
ATOM	4031	HG2	ARG	X	270	44.967	68.155	41.372	0.00	0.00

ATOM	4032	HG3	ARG	X	270	45.249	69.611	42.278	0.00	0.00
ATOM	4033	CD	ARG	X	270	43.329	69.611	41.222	0.00	0.00
ATOM	4034	HD2	ARG	X	270	43.181	70.511	40.625	0.00	0.00
ATOM	4035	HD3	ARG	X	270	42.724	68.847	40.734	0.00	0.00
ATOM	4036	NE	ARG	X	270	42.834	69.958	42.518	0.00	0.00
ATOM	4037	HE	ARG	X	270	42.759	70.928	42.789	0.00	0.00
ATOM	4038	CZ	ARG	X	270	42.396	69.086	43.435	0.00	0.00
ATOM	4039	NH1	ARG	X	270	42.231	67.773	43.115	0.00	0.00
ATOM	4040	HH11	ARG	X	270	42.402	67.557	42.143	0.00	0.00
ATOM	4041	HH12	ARG	X	270	41.765	67.164	43.772	0.00	0.00
ATOM	4042	NH2	ARG	X	270	41.982	69.425	44.638	0.00	0.00
ATOM	4043	HH21	ARG	X	270	42.215	70.321	45.043	0.00	0.00
ATOM	4044	HH22	ARG	X	270	41.637	68.719	45.273	0.00	0.00
ATOM	4045	C	ARG	X	270	47.609	70.187	38.788	0.00	0.00
ATOM	4046	O	ARG	X	270	47.487	69.786	37.613	0.00	0.00
ATOM	4047	N	THR	X	271	48.251	71.351	39.080	0.00	0.00
ATOM	4048	H	THR	X	271	48.404	71.613	40.043	0.00	0.00
ATOM	4049	CA	THR	X	271	48.930	72.297	38.081	0.00	0.00
ATOM	4050	HA	THR	X	271	48.152	72.600	37.380	0.00	0.00
ATOM	4051	CB	THR	X	271	49.389	73.687	38.632	0.00	0.00
ATOM	4052	HB	THR	X	271	50.109	73.453	39.416	0.00	0.00
ATOM	4053	CG2	THR	X	271	49.696	74.662	37.513	0.00	0.00
ATOM	4054	HG21	THR	X	271	48.797	74.800	36.913	0.00	0.00
ATOM	4055	HG22	THR	X	271	50.460	74.134	36.943	0.00	0.00
ATOM	4056	HG23	THR	X	271	50.063	75.616	37.892	0.00	0.00
ATOM	4057	OG1	THR	X	271	48.269	74.167	39.304	0.00	0.00
ATOM	4058	HG1	THR	X	271	48.321	75.115	39.447	0.00	0.00
ATOM	4059	C	THR	X	271	50.069	71.684	37.320	0.00	0.00
ATOM	4060	O	THR	X	271	50.074	71.807	36.104	0.00	0.00
ATOM	4061	N	ARG	X	272	51.163	71.330	38.016	0.00	0.00
ATOM	4062	H	ARG	X	272	51.118	71.469	39.015	0.00	0.00
ATOM	4063	CA	ARG	X	272	52.365	70.829	37.462	0.00	0.00
ATOM	4064	HA	ARG	X	272	52.825	71.633	36.888	0.00	0.00
ATOM	4065	CB	ARG	X	272	53.334	70.409	38.538	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.080	69.425	38.931	0.00	0.00
ATOM	4067	HB3	ARG	X	272	54.357	70.402	38.159	0.00	0.00
ATOM	4068	CG	ARG	X	272	53.463	71.442	39.740	0.00	0.00
ATOM	4069	HG2	ARG	X	272	52.566	71.663	40.318	0.00	0.00
ATOM	4070	HG3	ARG	X	272	54.189	71.024	40.438	0.00	0.00
ATOM	4071	CD	ARG	X	272	54.030	72.821	39.229	0.00	0.00
ATOM	4072	HD2	ARG	X	272	54.997	72.601	38.775	0.00	0.00
ATOM	4073	HD3	ARG	X	272	53.261	73.246	38.585	0.00	0.00
ATOM	4074	NE	ARG	X	272	54.341	73.743	40.312	0.00	0.00
ATOM	4075	HE	ARG	X	272	53.608	74.424	40.448	0.00	0.00
ATOM	4076	CZ	ARG	X	272	55.394	73.709	41.171	0.00	0.00
ATOM	4077	NH1	ARG	X	272	56.325	72.823	41.198	0.00	0.00
ATOM	4078	HH11	ARG	X	272	56.340	72.091	40.502	0.00	0.00
ATOM	4079	HH12	ARG	X	272	57.110	72.988	41.812	0.00	0.00
ATOM	4080	NH2	ARG	X	272	55.372	74.678	42.081	0.00	0.00
ATOM	4081	HH21	ARG	X	272	54.625	75.356	42.036	0.00	0.00
ATOM	4082	HH22	ARG	X	272	55.909	74.569	42.930	0.00	0.00
ATOM	4083	C	ARG	X	272	52.067	69.657	36.525	0.00	0.00
ATOM	4084	O	ARG	X	272	51.048	69.045	36.777	0.00	0.00
ATOM	4085	N	PRO	X	273	52.718	69.384	35.389	0.00	0.00
ATOM	4086	CD	PRO	X	273	53.827	70.201	34.923	0.00	0.00
ATOM	4087	HD2	PRO	X	273	54.730	70.009	35.503	0.00	0.00
ATOM	4088	HD3	PRO	X	273	53.604	71.242	34.689	0.00	0.00
ATOM	4089	CG	PRO	X	273	54.206	69.588	33.569	0.00	0.00
ATOM	4090	HG2	PRO	X	273	55.277	69.400	33.489	0.00	0.00
ATOM	4091	HG3	PRO	X	273	53.780	70.119	32.718	0.00	0.00
ATOM	4092	CB	PRO	X	273	53.546	68.221	33.456	0.00	0.00
ATOM	4093	HB2	PRO	X	273	54.234	67.398	33.653	0.00	0.00
ATOM	4094	HB3	PRO	X	273	53.128	68.141	32.453	0.00	0.00
ATOM	4095	CA	PRO	X	273	52.481	68.134	34.569	0.00	0.00
ATOM	4096	HA	PRO	X	273	51.570	68.293	33.992	0.00	0.00
ATOM	4097	C	PRO	X	273	52.491	66.769	35.259	0.00	0.00
ATOM	4098	O	PRO	X	273	53.388	66.433	36.067	0.00	0.00

ATOM	4099	N	ALA	X	274	51.569	65.912	34.829	0.00	0.00
ATOM	4100	H	ALA	X	274	50.927	66.210	34.108	0.00	0.00
ATOM	4101	CA	ALA	X	274	51.617	64.533	35.299	0.00	0.00
ATOM	4102	HA	ALA	X	274	51.319	64.474	36.346	0.00	0.00
ATOM	4103	CB	ALA	X	274	50.376	63.831	34.703	0.00	0.00
ATOM	4104	HB1	ALA	X	274	50.180	62.908	35.250	0.00	0.00
ATOM	4105	HB2	ALA	X	274	50.536	63.771	33.627	0.00	0.00
ATOM	4106	HB3	ALA	X	274	49.559	64.536	34.853	0.00	0.00
ATOM	4107	C	ALA	X	274	52.939	63.740	34.945	0.00	0.00
ATOM	4108	O	ALA	X	274	53.318	62.905	35.780	0.00	0.00
ATOM	4109	N	GLN	X	275	53.704	64.136	33.939	0.00	0.00
ATOM	4110	H	GLN	X	275	53.265	64.731	33.250	0.00	0.00
ATOM	4111	CA	GLN	X	275	55.068	63.717	33.674	0.00	0.00
ATOM	4112	HA	GLN	X	275	55.121	62.665	33.392	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.711	64.509	32.472	0.00	0.00
ATOM	4114	HB2	GLN	X	275	54.934	64.498	31.707	0.00	0.00
ATOM	4115	HB3	GLN	X	275	55.778	65.563	32.744	0.00	0.00
ATOM	4116	CG	GLN	X	275	57.061	63.902	31.953	0.00	0.00
ATOM	4117	HG2	GLN	X	275	57.785	63.743	32.752	0.00	0.00
ATOM	4118	HG3	GLN	X	275	56.886	62.893	31.580	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.708	64.823	30.835	0.00	0.00
ATOM	4120	OE1	GLN	X	275	57.056	65.656	30.132	0.00	0.00
ATOM	4121	NE2	GLN	X	275	59.044	64.883	30.768	0.00	0.00
ATOM	4122	HE21	GLN	X	275	59.430	65.583	30.151	0.00	0.00
ATOM	4123	HE22	GLN	X	275	59.644	64.492	31.481	0.00	0.00
ATOM	4124	C	GLN	X	275	55.933	63.927	34.916	0.00	0.00
ATOM	4125	O	GLN	X	275	56.707	63.099	35.357	0.00	0.00
ATOM	4126	N	VAL	X	276	55.754	65.015	35.614	0.00	0.00
ATOM	4127	H	VAL	X	276	55.014	65.634	35.313	0.00	0.00
ATOM	4128	CA	VAL	X	276	56.560	65.530	36.703	0.00	0.00
ATOM	4129	HA	VAL	X	276	57.571	65.230	36.427	0.00	0.00
ATOM	4130	CB	VAL	X	276	56.415	67.038	36.882	0.00	0.00
ATOM	4131	HB	VAL	X	276	55.388	67.227	37.193	0.00	0.00
ATOM	4132	CG1	VAL	X	276	57.322	67.530	38.052	0.00	0.00
ATOM	4133	HG11	VAL	X	276	57.038	67.093	39.009	0.00	0.00
ATOM	4134	HG12	VAL	X	276	58.361	67.281	37.837	0.00	0.00
ATOM	4135	HG13	VAL	X	276	57.227	68.609	38.173	0.00	0.00
ATOM	4136	CG2	VAL	X	276	56.817	67.780	35.588	0.00	0.00
ATOM	4137	HG21	VAL	X	276	57.826	67.550	35.246	0.00	0.00
ATOM	4138	HG22	VAL	X	276	56.742	68.842	35.819	0.00	0.00
ATOM	4139	HG23	VAL	X	276	56.109	67.423	34.839	0.00	0.00
ATOM	4140	C	VAL	X	276	56.095	64.868	38.039	0.00	0.00
ATOM	4141	O	VAL	X	276	56.954	64.601	38.871	0.00	0.00
ATOM	4142	N	LEU	X	277	54.812	64.470	38.201	0.00	0.00
ATOM	4143	H	LEU	X	277	54.081	64.664	37.531	0.00	0.00
ATOM	4144	CA	LEU	X	277	54.479	63.596	39.337	0.00	0.00
ATOM	4145	HA	LEU	X	277	54.905	64.013	40.249	0.00	0.00
ATOM	4146	CB	LEU	X	277	52.981	63.512	39.540	0.00	0.00
ATOM	4147	HB2	LEU	X	277	52.591	62.998	38.662	0.00	0.00
ATOM	4148	HB3	LEU	X	277	52.711	62.861	40.372	0.00	0.00
ATOM	4149	CG	LEU	X	277	52.135	64.819	39.549	0.00	0.00
ATOM	4150	HG	LEU	X	277	52.270	65.414	38.646	0.00	0.00
ATOM	4151	CD1	LEU	X	277	50.605	64.456	39.687	0.00	0.00
ATOM	4152	HD11	LEU	X	277	49.995	65.304	39.997	0.00	0.00
ATOM	4153	HD12	LEU	X	277	50.556	63.700	40.471	0.00	0.00
ATOM	4154	HD13	LEU	X	277	50.216	64.205	38.700	0.00	0.00
ATOM	4155	CD2	LEU	X	277	52.452	65.789	40.677	0.00	0.00
ATOM	4156	HD21	LEU	X	277	52.526	65.341	41.668	0.00	0.00
ATOM	4157	HD22	LEU	X	277	53.410	66.276	40.495	0.00	0.00
ATOM	4158	HD23	LEU	X	277	51.603	66.470	40.734	0.00	0.00
ATOM	4159	C	LEU	X	277	54.961	62.160	39.069	0.00	0.00
ATOM	4160	O	LEU	X	277	55.500	61.558	39.936	0.00	0.00
ATOM	4161	N	VAL	X	278	54.810	61.643	37.856	0.00	0.00
ATOM	4162	H	VAL	X	278	54.269	62.127	37.154	0.00	0.00
ATOM	4163	CA	VAL	X	278	55.144	60.205	37.645	0.00	0.00
ATOM	4164	HA	VAL	X	278	54.582	59.605	38.361	0.00	0.00
ATOM	4165	CB	VAL	X	278	54.803	59.709	36.232	0.00	0.00

ATOM	4166	HB	VAL	X	278	55.251	60.374	35.493	0.00	0.00
ATOM	4167	CG1	VAL	X	278	55.433	58.335	35.969	0.00	0.00
ATOM	4168	HG11	VAL	X	278	56.514	58.199	35.939	0.00	0.00
ATOM	4169	HG12	VAL	X	278	55.021	57.656	36.716	0.00	0.00
ATOM	4170	HG13	VAL	X	278	55.080	58.018	34.987	0.00	0.00
ATOM	4171	CG2	VAL	X	278	53.283	59.406	36.079	0.00	0.00
ATOM	4172	HG21	VAL	X	278	53.009	58.646	36.810	0.00	0.00
ATOM	4173	HG22	VAL	X	278	53.136	58.987	35.084	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.588	60.224	36.273	0.00	0.00
ATOM	4175	C	VAL	X	278	56.710	59.963	37.865	0.00	0.00
ATOM	4176	O	VAL	X	278	57.050	58.983	38.555	0.00	0.00
ATOM	4177	N	ASN	X	279	57.521	60.985	37.539	0.00	0.00
ATOM	4178	H	ASN	X	279	57.153	61.789	37.050	0.00	0.00
ATOM	4179	CA	ASN	X	279	58.963	60.898	37.697	0.00	0.00
ATOM	4180	HA	ASN	X	279	59.418	60.098	37.113	0.00	0.00
ATOM	4181	CB	ASN	X	279	59.529	62.180	37.078	0.00	0.00
ATOM	4182	HB2	ASN	X	279	59.388	62.311	36.005	0.00	0.00
ATOM	4183	HB3	ASN	X	279	59.084	63.068	37.529	0.00	0.00
ATOM	4184	CG	ASN	X	279	61.008	62.312	37.192	0.00	0.00
ATOM	4185	OD1	ASN	X	279	61.694	61.314	37.118	0.00	0.00
ATOM	4186	ND2	ASN	X	279	61.508	63.537	37.440	0.00	0.00
ATOM	4187	HD21	ASN	X	279	62.483	63.638	37.684	0.00	0.00
ATOM	4188	HD22	ASN	X	279	60.911	64.351	37.411	0.00	0.00
ATOM	4189	C	ASN	X	279	59.403	60.661	39.206	0.00	0.00
ATOM	4190	O	ASN	X	279	60.375	59.977	39.537	0.00	0.00
ATOM	4191	N	HIE	X	280	58.514	61.146	40.095	0.00	0.00
ATOM	4192	H	HIE	X	280	57.665	61.596	39.787	0.00	0.00
ATOM	4193	CA	HIE	X	280	58.679	61.028	41.551	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.684	60.651	41.741	0.00	0.00
ATOM	4195	CB	HIE	X	280	58.685	62.511	42.141	0.00	0.00
ATOM	4196	HB2	HIE	X	280	57.721	63.005	42.018	0.00	0.00
ATOM	4197	HB3	HIE	X	280	58.775	62.556	43.226	0.00	0.00
ATOM	4198	CG	HIE	X	280	59.882	63.267	41.508	0.00	0.00
ATOM	4199	ND1	HIE	X	280	61.179	63.074	41.874	0.00	0.00
ATOM	4200	CE1	HIE	X	280	61.901	63.897	41.181	0.00	0.00
ATOM	4201	HE1	HIE	X	280	62.962	63.804	41.000	0.00	0.00
ATOM	4202	NE2	HIE	X	280	61.155	64.844	40.589	0.00	0.00
ATOM	4203	HE2	HIE	X	280	61.462	65.581	39.972	0.00	0.00
ATOM	4204	CD2	HIE	X	280	59.860	64.355	40.664	0.00	0.00
ATOM	4205	HD2	HIE	X	280	59.000	64.867	40.258	0.00	0.00
ATOM	4206	C	HIE	X	280	57.782	59.964	42.297	0.00	0.00
ATOM	4207	O	HIE	X	280	58.125	59.546	43.460	0.00	0.00
ATOM	4208	N	GLU	X	281	56.729	59.464	41.697	0.00	0.00
ATOM	4209	H	GLU	X	281	56.422	59.881	40.830	0.00	0.00
ATOM	4210	CA	GLU	X	281	55.786	58.540	42.332	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.358	58.883	43.274	0.00	0.00
ATOM	4212	CB	GLU	X	281	54.719	58.178	41.320	0.00	0.00
ATOM	4213	HB2	GLU	X	281	54.184	59.003	40.850	0.00	0.00
ATOM	4214	HB3	GLU	X	281	55.144	57.502	40.577	0.00	0.00
ATOM	4215	CG	GLU	X	281	53.518	57.450	42.052	0.00	0.00
ATOM	4216	HG2	GLU	X	281	54.066	56.723	42.651	0.00	0.00
ATOM	4217	HG3	GLU	X	281	53.020	58.103	42.769	0.00	0.00
ATOM	4218	CD	GLU	X	281	52.455	56.949	41.080	0.00	0.00
ATOM	4219	OE1	GLU	X	281	51.565	57.779	40.631	0.00	0.00
ATOM	4220	OE2	GLU	X	281	52.577	55.831	40.514	0.00	0.00
ATOM	4221	C	GLU	X	281	56.562	57.222	42.733	0.00	0.00
ATOM	4222	O	GLU	X	281	56.444	56.778	43.824	0.00	0.00
ATOM	4223	N	TRP	X	282	57.409	56.733	41.845	0.00	0.00
ATOM	4224	H	TRP	X	282	57.563	57.249	40.990	0.00	0.00
ATOM	4225	CA	TRP	X	282	58.331	55.651	42.040	0.00	0.00
ATOM	4226	HA	TRP	X	282	57.715	54.752	42.007	0.00	0.00
ATOM	4227	CB	TRP	X	282	59.282	55.610	40.878	0.00	0.00
ATOM	4228	HB2	TRP	X	282	58.741	55.543	39.935	0.00	0.00
ATOM	4229	HB3	TRP	X	282	59.941	56.478	40.850	0.00	0.00
ATOM	4230	CG	TRP	X	282	60.188	54.462	40.929	0.00	0.00
ATOM	4231	CD1	TRP	X	282	59.792	53.133	40.751	0.00	0.00
ATOM	4232	HD1	TRP	X	282	58.782	52.771	40.626	0.00	0.00

ATOM	4233	NE1	TRP	X	282	60.883	52.328	40.874	0.00	0.00
ATOM	4234	HE1	TRP	X	282	60.738	51.333	40.970	0.00	0.00
ATOM	4235	CE2	TRP	X	282	62.058	52.995	41.103	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	63.413	52.616	41.139	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	63.625	51.591	40.874	0.00	0.00
ATOM	4238	CH2	TRP	X	282	64.340	53.618	41.277	0.00	0.00
ATOM	4239	HH2	TRP	X	282	65.332	53.204	41.383	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	63.973	54.968	41.389	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	64.695	55.750	41.571	0.00	0.00
ATOM	4242	CE3	TRP	X	282	62.652	55.323	41.371	0.00	0.00
ATOM	4243	HE3	TRP	X	282	62.402	56.373	41.423	0.00	0.00
ATOM	4244	CD2	TRP	X	282	61.634	54.368	41.203	0.00	0.00
ATOM	4245	C	TRP	X	282	59.082	55.609	43.395	0.00	0.00
ATOM	4246	O	TRP	X	282	59.364	54.523	43.952	0.00	0.00
ATOM	4247	N	HIE	X	283	59.422	56.773	43.972	0.00	0.00
ATOM	4248	H	HIE	X	283	59.184	57.624	43.483	0.00	0.00
ATOM	4249	CA	HIE	X	283	60.080	56.974	45.263	0.00	0.00
ATOM	4250	HA	HIE	X	283	60.771	56.141	45.388	0.00	0.00
ATOM	4251	CB	HIE	X	283	60.934	58.308	45.195	0.00	0.00
ATOM	4252	HB2	HIE	X	283	60.260	59.151	45.345	0.00	0.00
ATOM	4253	HB3	HIE	X	283	61.496	58.326	46.129	0.00	0.00
ATOM	4254	CG	HIE	X	283	61.889	58.535	44.124	0.00	0.00
ATOM	4255	ND1	HIE	X	283	63.295	58.818	44.285	0.00	0.00
ATOM	4256	CE1	HIE	X	283	63.756	59.043	43.076	0.00	0.00
ATOM	4257	HE1	HIE	X	283	64.753	59.421	42.905	0.00	0.00
ATOM	4258	NE2	HIE	X	283	62.744	58.988	42.167	0.00	0.00
ATOM	4259	HE2	HIE	X	283	62.830	59.342	41.225	0.00	0.00
ATOM	4260	CD2	HIE	X	283	61.610	58.627	42.785	0.00	0.00
ATOM	4261	HD2	HIE	X	283	60.636	58.572	42.322	0.00	0.00
ATOM	4262	C	HIE	X	283	59.153	56.928	46.457	0.00	0.00
ATOM	4263	O	HIE	X	283	59.592	56.766	47.601	0.00	0.00
ATOM	4264	N	VAL	X	284	57.828	57.102	46.279	0.00	0.00
ATOM	4265	H	VAL	X	284	57.569	57.211	45.308	0.00	0.00
ATOM	4266	CA	VAL	X	284	56.823	56.859	47.310	0.00	0.00
ATOM	4267	HA	VAL	X	284	57.337	56.821	48.270	0.00	0.00
ATOM	4268	CB	VAL	X	284	55.803	57.977	47.454	0.00	0.00
ATOM	4269	HB	VAL	X	284	55.133	57.740	48.281	0.00	0.00
ATOM	4270	CG1	VAL	X	284	56.456	59.247	48.008	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.701	60.006	48.215	0.00	0.00
ATOM	4272	HG12	VAL	X	284	57.003	59.059	48.932	0.00	0.00
ATOM	4273	HG13	VAL	X	284	57.234	59.528	47.299	0.00	0.00
ATOM	4274	CG2	VAL	X	284	54.865	58.143	46.260	0.00	0.00
ATOM	4275	HG21	VAL	X	284	54.058	58.774	46.632	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.380	57.224	45.931	0.00	0.00
ATOM	4277	HG23	VAL	X	284	55.339	58.592	45.387	0.00	0.00
ATOM	4278	C	VAL	X	284	56.235	55.465	47.058	0.00	0.00
ATOM	4279	O	VAL	X	284	55.196	55.086	47.600	0.00	0.00
ATOM	4280	N	LEU	X	285	56.852	54.599	46.244	0.00	0.00
ATOM	4281	H	LEU	X	285	57.382	54.981	45.474	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.644	53.155	46.404	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.565	53.031	46.317	0.00	0.00
ATOM	4284	CB	LEU	X	285	57.344	52.318	45.266	0.00	0.00
ATOM	4285	HB2	LEU	X	285	57.226	52.855	44.325	0.00	0.00
ATOM	4286	HB3	LEU	X	285	58.425	52.451	45.315	0.00	0.00
ATOM	4287	CG	LEU	X	285	57.041	50.793	45.306	0.00	0.00
ATOM	4288	HG	LEU	X	285	57.201	50.448	46.327	0.00	0.00
ATOM	4289	CD1	LEU	X	285	55.646	50.271	44.949	0.00	0.00
ATOM	4290	HD11	LEU	X	285	55.563	49.185	44.970	0.00	0.00
ATOM	4291	HD12	LEU	X	285	55.506	50.580	43.913	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.906	50.755	45.586	0.00	0.00
ATOM	4293	CD2	LEU	X	285	58.038	50.053	44.444	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.861	48.984	44.569	0.00	0.00
ATOM	4295	HD22	LEU	X	285	57.837	50.171	43.379	0.00	0.00
ATOM	4296	HD23	LEU	X	285	59.042	50.446	44.604	0.00	0.00
ATOM	4297	C	LEU	X	285	57.110	52.682	47.860	0.00	0.00
ATOM	4298	O	LEU	X	285	58.139	53.210	48.246	0.00	0.00
ATOM	4299	N	PRO	X	286	56.432	51.804	48.627	0.00	0.00

ATOM	4300	CD	PRO	X	286	55.008	51.404	48.354	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.967	50.631	47.586	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.361	52.186	47.958	0.00	0.00
ATOM	4303	CG	PRO	X	286	54.449	50.769	49.641	0.00	0.00
ATOM	4304	HG2	PRO	X	286	53.713	49.972	49.545	0.00	0.00
ATOM	4305	HG3	PRO	X	286	53.983	51.590	50.186	0.00	0.00
ATOM	4306	CB	PRO	X	286	55.677	50.339	50.343	0.00	0.00
ATOM	4307	HB2	PRO	X	286	55.928	49.287	50.213	0.00	0.00
ATOM	4308	HB3	PRO	X	286	55.471	50.411	51.411	0.00	0.00
ATOM	4309	CA	PRO	X	286	56.781	51.335	49.938	0.00	0.00
ATOM	4310	HA	PRO	X	286	56.735	52.191	50.611	0.00	0.00
ATOM	4311	C	PRO	X	286	58.215	50.729	50.021	0.00	0.00
ATOM	4312	O	PRO	X	286	58.687	50.039	49.089	0.00	0.00
ATOM	4313	N	GLN	X	287	58.963	51.054	51.071	0.00	0.00
ATOM	4314	H	GLN	X	287	58.495	51.626	51.760	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.309	50.508	51.389	0.00	0.00
ATOM	4316	HA	GLN	X	287	60.773	50.222	50.445	0.00	0.00
ATOM	4317	CB	GLN	X	287	61.112	51.489	52.253	0.00	0.00
ATOM	4318	HB2	GLN	X	287	60.586	51.711	53.182	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.001	51.013	52.667	0.00	0.00
ATOM	4320	CG	GLN	X	287	61.489	52.740	51.401	0.00	0.00
ATOM	4321	HG2	GLN	X	287	62.068	52.313	50.582	0.00	0.00
ATOM	4322	HG3	GLN	X	287	60.650	53.311	51.003	0.00	0.00
ATOM	4323	CD	GLN	X	287	62.309	53.768	52.252	0.00	0.00
ATOM	4324	OE1	GLN	X	287	63.036	53.489	53.159	0.00	0.00
ATOM	4325	NE2	GLN	X	287	62.157	55.072	51.926	0.00	0.00
ATOM	4326	HE21	GLN	X	287	62.696	55.771	52.416	0.00	0.00
ATOM	4327	HE22	GLN	X	287	61.598	55.295	51.114	0.00	0.00
ATOM	4328	C	GLN	X	287	60.005	49.247	52.243	0.00	0.00
ATOM	4329	O	GLN	X	287	58.869	49.123	52.781	0.00	0.00
ATOM	4330	N	GLU	X	288	60.996	48.368	52.485	0.00	0.00
ATOM	4331	H	GLU	X	288	61.911	48.501	52.077	0.00	0.00
ATOM	4332	CA	GLU	X	288	60.897	47.306	53.481	0.00	0.00
ATOM	4333	HA	GLU	X	288	61.771	46.656	53.473	0.00	0.00
ATOM	4334	CB	GLU	X	288	60.840	47.948	54.914	0.00	0.00
ATOM	4335	HB2	GLU	X	288	59.919	48.509	55.079	0.00	0.00
ATOM	4336	HB3	GLU	X	288	60.917	47.098	55.592	0.00	0.00
ATOM	4337	CG	GLU	X	288	62.115	48.664	55.277	0.00	0.00
ATOM	4338	HG2	GLU	X	288	62.943	48.083	54.870	0.00	0.00
ATOM	4339	HG3	GLU	X	288	62.122	49.661	54.837	0.00	0.00
ATOM	4340	CD	GLU	X	288	62.365	48.808	56.776	0.00	0.00
ATOM	4341	OE1	GLU	X	288	62.885	47.849	57.392	0.00	0.00
ATOM	4342	OE2	GLU	X	288	62.166	49.909	57.299	0.00	0.00
ATOM	4343	C	GLU	X	288	59.751	46.395	53.072	0.00	0.00
ATOM	4344	O	GLU	X	288	58.865	45.972	53.915	0.00	0.00
ATOM	4345	N	SER	X	289	59.593	46.047	51.783	0.00	0.00
ATOM	4346	H	SER	X	289	60.286	46.436	51.161	0.00	0.00
ATOM	4347	CA	SER	X	289	58.337	45.457	51.314	0.00	0.00
ATOM	4348	HA	SER	X	289	58.012	44.806	52.126	0.00	0.00
ATOM	4349	CB	SER	X	289	57.259	46.562	51.148	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.594	47.368	50.495	0.00	0.00
ATOM	4351	HB3	SER	X	289	56.376	46.103	50.702	0.00	0.00
ATOM	4352	OG	SER	X	289	56.908	47.196	52.371	0.00	0.00
ATOM	4353	HG	SER	X	289	57.699	47.574	52.760	0.00	0.00
ATOM	4354	C	SER	X	289	58.454	44.757	49.945	0.00	0.00
ATOM	4355	O	SER	X	289	58.986	45.284	49.011	0.00	0.00
ATOM	4356	N	VAL	X	290	57.849	43.618	49.782	0.00	0.00
ATOM	4357	H	VAL	X	290	57.515	43.114	50.591	0.00	0.00
ATOM	4358	CA	VAL	X	290	57.310	43.013	48.573	0.00	0.00
ATOM	4359	HA	VAL	X	290	57.367	43.678	47.711	0.00	0.00
ATOM	4360	CB	VAL	X	290	58.104	41.704	48.243	0.00	0.00
ATOM	4361	HB	VAL	X	290	58.263	41.213	49.203	0.00	0.00
ATOM	4362	CG1	VAL	X	290	57.433	40.651	47.308	0.00	0.00
ATOM	4363	HG11	VAL	X	290	57.510	41.106	46.321	0.00	0.00
ATOM	4364	HG12	VAL	X	290	57.967	39.701	47.327	0.00	0.00
ATOM	4365	HG13	VAL	X	290	56.421	40.547	47.699	0.00	0.00
ATOM	4366	CG2	VAL	X	290	59.490	42.045	47.789	0.00	0.00

ATOM	4367	HG21	VAL	X	290	60.024	41.125	47.548	0.00	0.00
ATOM	4368	HG22	VAL	X	290	60.076	42.633	48.495	0.00	0.00
ATOM	4369	HG23	VAL	X	290	59.423	42.534	46.817	0.00	0.00
ATOM	4370	C	VAL	X	290	55.841	42.662	48.807	0.00	0.00
ATOM	4371	O	VAL	X	290	55.322	42.176	49.820	0.00	0.00
ATOM	4372	N	PHE	X	291	55.141	42.958	47.707	0.00	0.00
ATOM	4373	H	PHE	X	291	55.683	43.175	46.883	0.00	0.00
ATOM	4374	CA	PHE	X	291	53.690	42.730	47.498	0.00	0.00
ATOM	4375	HA	PHE	X	291	53.473	42.755	46.430	0.00	0.00
ATOM	4376	CB	PHE	X	291	53.140	41.348	47.975	0.00	0.00
ATOM	4377	HB2	PHE	X	291	53.920	40.596	47.856	0.00	0.00
ATOM	4378	HB3	PHE	X	291	52.860	41.436	49.024	0.00	0.00
ATOM	4379	CG	PHE	X	291	51.919	40.821	47.217	0.00	0.00
ATOM	4380	CD1	PHE	X	291	50.680	41.498	46.949	0.00	0.00
ATOM	4381	HD1	PHE	X	291	50.579	42.461	47.427	0.00	0.00
ATOM	4382	CE1	PHE	X	291	49.662	40.864	46.216	0.00	0.00
ATOM	4383	HE1	PHE	X	291	48.739	41.401	46.054	0.00	0.00
ATOM	4384	CZ	PHE	X	291	49.862	39.565	45.651	0.00	0.00
ATOM	4385	HZ	PHE	X	291	49.034	39.138	45.103	0.00	0.00
ATOM	4386	CE2	PHE	X	291	51.023	38.844	45.910	0.00	0.00
ATOM	4387	HE2	PHE	X	291	51.169	37.862	45.485	0.00	0.00
ATOM	4388	CD2	PHE	X	291	52.016	39.548	46.619	0.00	0.00
ATOM	4389	HD2	PHE	X	291	52.964	39.031	46.638	0.00	0.00
ATOM	4390	C	PHE	X	291	52.941	43.972	48.061	0.00	0.00
ATOM	4391	O	PHE	X	291	52.030	43.783	48.817	0.00	0.00
ATOM	4392	N	ARG	X	292	53.416	45.181	47.763	0.00	0.00
ATOM	4393	H	ARG	X	292	54.263	45.239	47.215	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.866	46.498	48.222	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.794	46.337	48.332	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.436	46.859	49.653	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.518	46.923	49.531	0.00	0.00
ATOM	4398	HB3	ARG	X	292	53.037	47.836	49.924	0.00	0.00
ATOM	4399	CG	ARG	X	292	53.285	45.796	50.800	0.00	0.00
ATOM	4400	HG2	ARG	X	292	53.752	44.867	50.474	0.00	0.00
ATOM	4401	HG3	ARG	X	292	53.752	46.320	51.634	0.00	0.00
ATOM	4402	CD	ARG	X	292	51.784	45.584	51.158	0.00	0.00
ATOM	4403	HD2	ARG	X	292	51.681	46.324	51.951	0.00	0.00
ATOM	4404	HD3	ARG	X	292	51.089	46.006	50.432	0.00	0.00
ATOM	4405	NE	ARG	X	292	51.499	44.198	51.539	0.00	0.00
ATOM	4406	HE	ARG	X	292	51.381	43.568	50.757	0.00	0.00
ATOM	4407	CZ	ARG	X	292	51.296	43.664	52.727	0.00	0.00
ATOM	4408	NH1	ARG	X	292	51.256	44.480	53.749	0.00	0.00
ATOM	4409	HH11	ARG	X	292	51.653	45.403	53.645	0.00	0.00
ATOM	4410	HH12	ARG	X	292	51.231	44.101	54.685	0.00	0.00
ATOM	4411	NH2	ARG	X	292	51.166	42.369	52.896	0.00	0.00
ATOM	4412	HH21	ARG	X	292	51.183	41.719	52.123	0.00	0.00
ATOM	4413	HH22	ARG	X	292	51.240	42.009	53.837	0.00	0.00
ATOM	4414	C	ARG	X	292	53.125	47.669	47.303	0.00	0.00
ATOM	4415	O	ARG	X	292	54.214	47.744	46.706	0.00	0.00
ATOM	4416	N	PHE	X	293	52.152	48.588	47.072	0.00	0.00
ATOM	4417	H	PHE	X	293	51.415	48.691	47.755	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.130	49.458	45.889	0.00	0.00
ATOM	4419	HA	PHE	X	293	53.024	49.337	45.279	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.957	48.952	44.953	0.00	0.00
ATOM	4421	HB2	PHE	X	293	50.047	49.199	45.499	0.00	0.00
ATOM	4422	HB3	PHE	X	293	51.038	49.495	44.011	0.00	0.00
ATOM	4423	CG	PHE	X	293	50.894	47.443	44.788	0.00	0.00
ATOM	4424	CD1	PHE	X	293	51.953	46.730	44.181	0.00	0.00
ATOM	4425	HD1	PHE	X	293	52.808	47.254	43.779	0.00	0.00
ATOM	4426	CE1	PHE	X	293	52.031	45.331	44.268	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.904	44.830	43.878	0.00	0.00
ATOM	4428	CZ	PHE	X	293	51.050	44.631	44.869	0.00	0.00
ATOM	4429	HZ	PHE	X	293	51.039	43.551	44.875	0.00	0.00
ATOM	4430	CE2	PHE	X	293	49.967	45.223	45.526	0.00	0.00
ATOM	4431	HE2	PHE	X	293	49.163	44.664	45.981	0.00	0.00
ATOM	4432	CD2	PHE	X	293	49.926	46.623	45.472	0.00	0.00
ATOM	4433	HD2	PHE	X	293	49.104	47.085	45.997	0.00	0.00

ATOM	4434	C	PHE	X	293	52.051	50.944	46.229	0.00	0.00
ATOM	4435	O	PHE	X	293	51.548	51.229	47.332	0.00	0.00
ATOM	4436	N	SER	X	294	52.401	51.773	45.257	0.00	0.00
ATOM	4437	H	SER	X	294	53.003	51.371	44.552	0.00	0.00
ATOM	4438	CA	SER	X	294	52.592	53.191	45.463	0.00	0.00
ATOM	4439	HA	SER	X	294	53.422	53.313	46.159	0.00	0.00
ATOM	4440	CB	SER	X	294	53.064	53.905	44.156	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.255	53.841	43.428	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.249	54.945	44.422	0.00	0.00
ATOM	4443	OG	SER	X	294	54.276	53.221	43.680	0.00	0.00
ATOM	4444	HG	SER	X	294	54.482	53.512	42.788	0.00	0.00
ATOM	4445	C	SER	X	294	51.390	53.950	46.008	0.00	0.00
ATOM	4446	O	SER	X	294	51.586	54.676	46.966	0.00	0.00
ATOM	4447	N	PHE	X	295	50.137	53.564	45.611	0.00	0.00
ATOM	4448	H	PHE	X	295	49.948	52.741	45.057	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.951	54.248	46.061	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.958	54.493	47.123	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.758	55.565	45.207	0.00	0.00
ATOM	4452	HB2	PHE	X	295	48.923	55.350	44.151	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.717	55.867	45.317	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.548	56.819	45.578	0.00	0.00
ATOM	4455	CD1	PHE	X	295	49.027	57.587	46.660	0.00	0.00
ATOM	4456	HD1	PHE	X	295	48.036	57.434	47.059	0.00	0.00
ATOM	4457	CE1	PHE	X	295	49.765	58.681	47.098	0.00	0.00
ATOM	4458	HE1	PHE	X	295	49.495	59.318	47.927	0.00	0.00
ATOM	4459	CZ	PHE	X	295	51.068	58.914	46.615	0.00	0.00
ATOM	4460	HZ	PHE	X	295	51.597	59.773	47.001	0.00	0.00
ATOM	4461	CE2	PHE	X	295	51.462	58.223	45.468	0.00	0.00
ATOM	4462	HE2	PHE	X	295	52.461	58.417	45.107	0.00	0.00
ATOM	4463	CD2	PHE	X	295	50.787	57.143	44.971	0.00	0.00
ATOM	4464	HD2	PHE	X	295	51.201	56.596	44.136	0.00	0.00
ATOM	4465	C	PHE	X	295	47.781	53.343	45.881	0.00	0.00
ATOM	4466	O	PHE	X	295	47.670	52.802	44.774	0.00	0.00
ATOM	4467	N	VAL	X	296	46.982	53.132	46.912	0.00	0.00
ATOM	4468	H	VAL	X	296	47.185	53.629	47.767	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.949	52.068	46.943	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.664	51.754	45.939	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.532	50.888	47.702	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.699	50.189	47.767	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.794	50.232	47.037	0.00	0.00
ATOM	4474	HG11	VAL	X	296	48.629	50.929	47.101	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.963	49.288	47.556	0.00	0.00
ATOM	4476	HG13	VAL	X	296	47.492	50.059	46.004	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.921	51.300	49.153	0.00	0.00
ATOM	4478	HG21	VAL	X	296	47.393	50.427	49.606	0.00	0.00
ATOM	4479	HG22	VAL	X	296	46.023	51.510	49.734	0.00	0.00
ATOM	4480	HG23	VAL	X	296	47.677	52.085	49.149	0.00	0.00
ATOM	4481	C	VAL	X	296	44.629	52.516	47.583	0.00	0.00
ATOM	4482	O	VAL	X	296	44.670	53.536	48.304	0.00	0.00
ATOM	4483	N	PRO	X	297	43.410	51.871	47.402	0.00	0.00
ATOM	4484	CD	PRO	X	297	43.226	50.771	46.515	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.904	49.945	46.726	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.372	51.005	45.460	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.816	50.333	46.663	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.726	49.247	46.656	0.00	0.00
ATOM	4489	HG3	PRO	X	297	41.173	50.796	45.914	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.276	50.962	47.971	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.440	50.169	48.701	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.249	51.327	48.000	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.159	52.162	48.119	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.647	52.989	47.626	0.00	0.00
ATOM	4495	C	PRO	X	297	42.371	52.538	49.572	0.00	0.00
ATOM	4496	O	PRO	X	297	43.214	51.915	50.228	0.00	0.00
ATOM	4497	N	VAL	X	298	41.733	53.589	49.935	0.00	0.00
ATOM	4498	H	VAL	X	298	40.895	53.868	49.445	0.00	0.00
ATOM	4499	CA	VAL	X	298	41.865	54.230	51.207	0.00	0.00
ATOM	4500	HA	VAL	X	298	42.783	53.970	51.735	0.00	0.00

ATOM	4501	CB	VAL	X	298	41.970	55.777	51.062	0.00	0.00
ATOM	4502	HB	VAL	X	298	41.015	56.154	50.696	0.00	0.00
ATOM	4503	CG1	VAL	X	298	42.224	56.464	52.388	0.00	0.00
ATOM	4504	HG11	VAL	X	298	43.229	56.167	52.688	0.00	0.00
ATOM	4505	HG12	VAL	X	298	42.274	57.552	52.345	0.00	0.00
ATOM	4506	HG13	VAL	X	298	41.560	56.065	53.156	0.00	0.00
ATOM	4507	CG2	VAL	X	298	43.153	56.061	50.028	0.00	0.00
ATOM	4508	HG21	VAL	X	298	42.871	55.643	49.062	0.00	0.00
ATOM	4509	HG22	VAL	X	298	44.003	55.421	50.267	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.351	57.123	49.889	0.00	0.00
ATOM	4511	C	VAL	X	298	40.656	53.786	52.065	0.00	0.00
ATOM	4512	O	VAL	X	298	39.483	54.020	51.566	0.00	0.00
ATOM	4513	N	VAL	X	299	40.950	53.246	53.254	0.00	0.00
ATOM	4514	H	VAL	X	299	41.878	53.243	53.653	0.00	0.00
ATOM	4515	CA	VAL	X	299	39.949	53.232	54.306	0.00	0.00
ATOM	4516	HA	VAL	X	299	39.017	52.898	53.849	0.00	0.00
ATOM	4517	CB	VAL	X	299	40.339	52.233	55.335	0.00	0.00
ATOM	4518	HB	VAL	X	299	41.374	52.390	55.639	0.00	0.00
ATOM	4519	CG1	VAL	X	299	39.441	52.179	56.659	0.00	0.00
ATOM	4520	HG11	VAL	X	299	38.431	51.905	56.352	0.00	0.00
ATOM	4521	HG12	VAL	X	299	39.664	51.399	57.388	0.00	0.00
ATOM	4522	HG13	VAL	X	299	39.399	53.181	57.085	0.00	0.00
ATOM	4523	CG2	VAL	X	299	40.205	50.902	54.587	0.00	0.00
ATOM	4524	HG21	VAL	X	299	40.681	50.915	53.606	0.00	0.00
ATOM	4525	HG22	VAL	X	299	39.170	50.564	54.556	0.00	0.00
ATOM	4526	HG23	VAL	X	299	40.745	50.198	55.220	0.00	0.00
ATOM	4527	C	VAL	X	299	39.783	54.655	54.855	0.00	0.00
ATOM	4528	O	VAL	X	299	40.619	55.146	55.542	0.00	0.00
ATOM	4529	N	ASP	X	300	38.633	55.307	54.536	0.00	0.00
ATOM	4530	H	ASP	X	300	38.022	54.824	53.894	0.00	0.00
ATOM	4531	CA	ASP	X	300	38.473	56.780	54.703	0.00	0.00
ATOM	4532	HA	ASP	X	300	39.410	57.239	55.019	0.00	0.00
ATOM	4533	CB	ASP	X	300	38.369	57.477	53.309	0.00	0.00
ATOM	4534	HB2	ASP	X	300	38.529	58.533	53.527	0.00	0.00
ATOM	4535	HB3	ASP	X	300	39.076	57.165	52.541	0.00	0.00
ATOM	4536	CG	ASP	X	300	37.064	57.309	52.466	0.00	0.00
ATOM	4537	OD1	ASP	X	300	36.245	56.476	52.854	0.00	0.00
ATOM	4538	OD2	ASP	X	300	36.859	58.072	51.476	0.00	0.00
ATOM	4539	C	ASP	X	300	37.277	57.282	55.624	0.00	0.00
ATOM	4540	O	ASP	X	300	37.209	58.467	55.919	0.00	0.00
ATOM	4541	N	GLY	X	301	36.298	56.376	55.935	0.00	0.00
ATOM	4542	H	GLY	X	301	36.446	55.583	55.326	0.00	0.00
ATOM	4543	CA	GLY	X	301	35.154	56.446	56.735	0.00	0.00
ATOM	4544	HA2	GLY	X	301	34.856	55.450	57.065	0.00	0.00
ATOM	4545	HA3	GLY	X	301	35.258	57.187	57.527	0.00	0.00
ATOM	4546	C	GLY	X	301	34.030	56.990	55.872	0.00	0.00
ATOM	4547	O	GLY	X	301	33.062	57.432	56.483	0.00	0.00
ATOM	4548	N	ASP	X	302	34.001	56.961	54.529	0.00	0.00
ATOM	4549	H	ASP	X	302	34.801	56.568	54.054	0.00	0.00
ATOM	4550	CA	ASP	X	302	32.914	57.485	53.663	0.00	0.00
ATOM	4551	HA	ASP	X	302	31.990	57.711	54.194	0.00	0.00
ATOM	4552	CB	ASP	X	302	33.568	58.788	53.171	0.00	0.00
ATOM	4553	HB2	ASP	X	302	33.652	59.542	53.953	0.00	0.00
ATOM	4554	HB3	ASP	X	302	34.530	58.640	52.679	0.00	0.00
ATOM	4555	CG	ASP	X	302	32.766	59.509	52.121	0.00	0.00
ATOM	4556	OD1	ASP	X	302	33.012	59.259	50.914	0.00	0.00
ATOM	4557	OD2	ASP	X	302	31.866	60.274	52.475	0.00	0.00
ATOM	4558	C	ASP	X	302	32.711	56.583	52.417	0.00	0.00
ATOM	4559	O	ASP	X	302	31.653	56.179	52.111	0.00	0.00
ATOM	4560	N	PHE	X	303	33.712	56.240	51.600	0.00	0.00
ATOM	4561	H	PHE	X	303	34.567	56.747	51.781	0.00	0.00
ATOM	4562	CA	PHE	X	303	33.623	55.214	50.487	0.00	0.00
ATOM	4563	HA	PHE	X	303	32.667	55.280	49.966	0.00	0.00
ATOM	4564	CB	PHE	X	303	34.758	55.561	49.527	0.00	0.00
ATOM	4565	HB2	PHE	X	303	34.651	56.580	49.154	0.00	0.00
ATOM	4566	HB3	PHE	X	303	35.719	55.592	50.039	0.00	0.00
ATOM	4567	CG	PHE	X	303	34.884	54.681	48.302	0.00	0.00

ATOM	4568	CD1	PHE	X	303	35.704	53.530	48.450	0.00	0.00
ATOM	4569	HD1	PHE	X	303	36.291	53.466	49.355	0.00	0.00
ATOM	4570	CE1	PHE	X	303	35.832	52.550	47.513	0.00	0.00
ATOM	4571	HE1	PHE	X	303	36.534	51.786	47.811	0.00	0.00
ATOM	4572	CZ	PHE	X	303	35.048	52.566	46.373	0.00	0.00
ATOM	4573	HZ	PHE	X	303	35.043	51.694	45.735	0.00	0.00
ATOM	4574	CE2	PHE	X	303	34.254	53.698	46.163	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.808	53.798	45.185	0.00	0.00
ATOM	4576	CD2	PHE	X	303	34.088	54.757	47.127	0.00	0.00
ATOM	4577	HD2	PHE	X	303	33.573	55.662	46.842	0.00	0.00
ATOM	4578	C	PHE	X	303	33.797	53.802	51.020	0.00	0.00
ATOM	4579	O	PHE	X	303	33.088	52.974	50.482	0.00	0.00
ATOM	4580	N	LEU	X	304	34.675	53.677	52.082	0.00	0.00
ATOM	4581	H	LEU	X	304	35.055	54.581	52.325	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.874	52.505	52.981	0.00	0.00
ATOM	4583	HA	LEU	X	304	34.287	51.646	52.656	0.00	0.00
ATOM	4584	CB	LEU	X	304	36.257	52.029	52.826	0.00	0.00
ATOM	4585	HB2	LEU	X	304	36.953	52.862	52.719	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.598	51.540	53.738	0.00	0.00
ATOM	4587	CG	LEU	X	304	36.522	51.140	51.552	0.00	0.00
ATOM	4588	HG	LEU	X	304	36.453	51.552	50.545	0.00	0.00
ATOM	4589	CD1	LEU	X	304	37.958	50.553	51.712	0.00	0.00
ATOM	4590	HD11	LEU	X	304	38.195	49.872	50.894	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.072	49.913	52.586	0.00	0.00
ATOM	4592	HD13	LEU	X	304	38.667	51.370	51.841	0.00	0.00
ATOM	4593	CD2	LEU	X	304	35.525	49.923	51.731	0.00	0.00
ATOM	4594	HD21	LEU	X	304	34.526	50.159	51.364	0.00	0.00
ATOM	4595	HD22	LEU	X	304	35.891	49.053	51.185	0.00	0.00
ATOM	4596	HD23	LEU	X	304	35.510	49.729	52.803	0.00	0.00
ATOM	4597	C	LEU	X	304	34.630	52.948	54.405	0.00	0.00
ATOM	4598	O	LEU	X	304	35.413	53.670	55.085	0.00	0.00
ATOM	4599	N	SER	X	305	33.503	52.515	54.895	0.00	0.00
ATOM	4600	H	SER	X	305	32.856	52.072	54.259	0.00	0.00
ATOM	4601	CA	SER	X	305	33.022	52.887	56.241	0.00	0.00
ATOM	4602	HA	SER	X	305	33.014	53.968	56.376	0.00	0.00
ATOM	4603	CB	SER	X	305	31.506	52.463	56.513	0.00	0.00
ATOM	4604	HB2	SER	X	305	31.287	51.489	56.077	0.00	0.00
ATOM	4605	HB3	SER	X	305	31.421	52.307	57.588	0.00	0.00
ATOM	4606	OG	SER	X	305	30.525	53.358	56.085	0.00	0.00
ATOM	4607	HG	SER	X	305	30.612	53.532	55.144	0.00	0.00
ATOM	4608	C	SER	X	305	33.852	52.368	57.438	0.00	0.00
ATOM	4609	O	SER	X	305	33.683	52.876	58.571	0.00	0.00
ATOM	4610	N	ASP	X	306	34.782	51.442	57.175	0.00	0.00
ATOM	4611	H	ASP	X	306	34.926	51.305	56.184	0.00	0.00
ATOM	4612	CA	ASP	X	306	35.858	50.813	57.967	0.00	0.00
ATOM	4613	HA	ASP	X	306	36.572	51.533	58.367	0.00	0.00
ATOM	4614	CB	ASP	X	306	35.365	50.042	59.248	0.00	0.00
ATOM	4615	HB2	ASP	X	306	34.668	50.739	59.713	0.00	0.00
ATOM	4616	HB3	ASP	X	306	34.925	49.080	58.986	0.00	0.00
ATOM	4617	CG	ASP	X	306	36.465	49.971	60.341	0.00	0.00
ATOM	4618	OD1	ASP	X	306	36.049	49.688	61.475	0.00	0.00
ATOM	4619	OD2	ASP	X	306	37.667	50.247	60.155	0.00	0.00
ATOM	4620	C	ASP	X	306	36.772	49.811	57.097	0.00	0.00
ATOM	4621	O	ASP	X	306	36.628	49.893	55.908	0.00	0.00
ATOM	4622	N	THR	X	307	37.595	49.000	57.694	0.00	0.00
ATOM	4623	H	THR	X	307	37.742	49.110	58.687	0.00	0.00
ATOM	4624	CA	THR	X	307	38.419	48.095	56.921	0.00	0.00
ATOM	4625	HA	THR	X	307	38.767	48.710	56.091	0.00	0.00
ATOM	4626	CB	THR	X	307	39.630	47.463	57.720	0.00	0.00
ATOM	4627	HB	THR	X	307	40.092	46.683	57.114	0.00	0.00
ATOM	4628	CG2	THR	X	307	40.699	48.539	58.029	0.00	0.00
ATOM	4629	HG21	THR	X	307	41.014	48.905	57.052	0.00	0.00
ATOM	4630	HG22	THR	X	307	41.529	48.041	58.530	0.00	0.00
ATOM	4631	HG23	THR	X	307	40.367	49.303	58.731	0.00	0.00
ATOM	4632	OG1	THR	X	307	39.279	47.047	59.051	0.00	0.00
ATOM	4633	HG1	THR	X	307	40.028	46.493	59.284	0.00	0.00
ATOM	4634	C	THR	X	307	37.597	46.918	56.386	0.00	0.00

ATOM	4635	O	THR	X	307	36.625	46.573	57.109	0.00	0.00
ATOM	4636	N	PRO	X	308	37.929	46.379	55.221	0.00	0.00
ATOM	4637	CD	PRO	X	308	38.915	46.915	54.239	0.00	0.00
ATOM	4638	HD2	PRO	X	308	39.907	46.571	54.531	0.00	0.00
ATOM	4639	HD3	PRO	X	308	38.948	48.004	54.206	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.546	46.245	52.890	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.435	46.108	52.275	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.853	46.940	52.414	0.00	0.00
ATOM	4643	CB	PRO	X	308	38.030	44.921	53.401	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.898	44.299	53.618	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.430	44.428	52.637	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.217	45.261	54.640	0.00	0.00
ATOM	4647	HA	PRO	X	308	36.266	45.642	54.267	0.00	0.00
ATOM	4648	C	PRO	X	308	36.995	43.996	55.548	0.00	0.00
ATOM	4649	O	PRO	X	308	35.956	43.379	55.495	0.00	0.00
ATOM	4650	N	GLU	X	309	38.007	43.738	56.436	0.00	0.00
ATOM	4651	H	GLU	X	309	38.910	44.188	56.387	0.00	0.00
ATOM	4652	CA	GLU	X	309	37.950	42.757	57.525	0.00	0.00
ATOM	4653	HA	GLU	X	309	37.689	41.799	57.077	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.324	42.563	58.179	0.00	0.00
ATOM	4655	HB2	GLU	X	309	40.019	42.369	57.362	0.00	0.00
ATOM	4656	HB3	GLU	X	309	39.684	43.488	58.631	0.00	0.00
ATOM	4657	CG	GLU	X	309	39.198	41.529	59.267	0.00	0.00
ATOM	4658	HG2	GLU	X	309	38.440	41.776	60.011	0.00	0.00
ATOM	4659	HG3	GLU	X	309	38.923	40.554	58.866	0.00	0.00
ATOM	4660	CD	GLU	X	309	40.488	41.369	59.997	0.00	0.00
ATOM	4661	OE1	GLU	X	309	41.485	40.981	59.341	0.00	0.00
ATOM	4662	OE2	GLU	X	309	40.559	41.499	61.243	0.00	0.00
ATOM	4663	C	GLU	X	309	36.803	43.084	58.478	0.00	0.00
ATOM	4664	O	GLU	X	309	36.104	42.207	59.001	0.00	0.00
ATOM	4665	N	ALA	X	310	36.602	44.390	58.851	0.00	0.00
ATOM	4666	H	ALA	X	310	37.139	45.110	58.388	0.00	0.00
ATOM	4667	CA	ALA	X	310	35.652	44.756	59.858	0.00	0.00
ATOM	4668	HA	ALA	X	310	35.637	44.011	60.653	0.00	0.00
ATOM	4669	CB	ALA	X	310	36.135	46.160	60.364	0.00	0.00
ATOM	4670	HB1	ALA	X	310	36.220	46.906	59.573	0.00	0.00
ATOM	4671	HB2	ALA	X	310	37.153	46.060	60.741	0.00	0.00
ATOM	4672	HB3	ALA	X	310	35.668	46.570	61.259	0.00	0.00
ATOM	4673	C	ALA	X	310	34.250	44.929	59.245	0.00	0.00
ATOM	4674	O	ALA	X	310	33.254	44.425	59.879	0.00	0.00
ATOM	4675	N	LEU	X	311	34.149	45.597	58.064	0.00	0.00
ATOM	4676	H	LEU	X	311	35.020	46.010	57.765	0.00	0.00
ATOM	4677	CA	LEU	X	311	32.860	45.628	57.283	0.00	0.00
ATOM	4678	HA	LEU	X	311	32.061	46.152	57.808	0.00	0.00
ATOM	4679	CB	LEU	X	311	33.091	46.308	55.902	0.00	0.00
ATOM	4680	HB2	LEU	X	311	33.755	45.755	55.237	0.00	0.00
ATOM	4681	HB3	LEU	X	311	32.129	46.409	55.399	0.00	0.00
ATOM	4682	CG	LEU	X	311	33.651	47.771	55.952	0.00	0.00
ATOM	4683	HG	LEU	X	311	34.520	47.785	56.610	0.00	0.00
ATOM	4684	CD1	LEU	X	311	33.973	48.271	54.520	0.00	0.00
ATOM	4685	HD11	LEU	X	311	34.938	47.896	54.181	0.00	0.00
ATOM	4686	HD12	LEU	X	311	34.115	49.351	54.503	0.00	0.00
ATOM	4687	HD13	LEU	X	311	33.284	48.006	53.717	0.00	0.00
ATOM	4688	CD2	LEU	X	311	32.635	48.704	56.598	0.00	0.00
ATOM	4689	HD21	LEU	X	311	31.808	48.887	55.912	0.00	0.00
ATOM	4690	HD22	LEU	X	311	32.290	48.350	57.570	0.00	0.00
ATOM	4691	HD23	LEU	X	311	32.983	49.734	56.674	0.00	0.00
ATOM	4692	C	LEU	X	311	32.236	44.245	56.992	0.00	0.00
ATOM	4693	O	LEU	X	311	31.082	43.931	57.348	0.00	0.00
ATOM	4694	N	ILE	X	312	33.060	43.257	56.665	0.00	0.00
ATOM	4695	H	ILE	X	312	33.947	43.535	56.270	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.481	41.836	56.530	0.00	0.00
ATOM	4697	HA	ILE	X	312	31.541	41.961	55.992	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.485	41.012	55.615	0.00	0.00
ATOM	4699	HB	ILE	X	312	33.905	41.781	54.967	0.00	0.00
ATOM	4700	CG2	ILE	X	312	34.653	40.359	56.411	0.00	0.00
ATOM	4701	HG21	ILE	X	312	35.142	39.641	55.752	0.00	0.00

ATOM	4702	HG22	ILE	X	312	34.374	39.895	57.357	0.00	0.00
ATOM	4703	HG23	ILE	X	312	35.377	41.133	56.666	0.00	0.00
ATOM	4704	CG1	ILE	X	312	32.662	40.077	54.712	0.00	0.00
ATOM	4705	HG12	ILE	X	312	32.144	39.366	55.356	0.00	0.00
ATOM	4706	HG13	ILE	X	312	31.970	40.685	54.129	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.614	39.364	53.690	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.124	39.076	52.760	0.00	0.00
ATOM	4709	HD12	ILE	X	312	34.096	38.498	54.143	0.00	0.00
ATOM	4710	HD13	ILE	X	312	34.456	40.001	53.418	0.00	0.00
ATOM	4711	C	ILE	X	312	32.136	41.166	57.839	0.00	0.00
ATOM	4712	O	ILE	X	312	31.415	40.211	57.788	0.00	0.00
ATOM	4713	N	ASN	X	313	32.619	41.595	59.030	0.00	0.00
ATOM	4714	H	ASN	X	313	33.452	42.156	58.931	0.00	0.00
ATOM	4715	CA	ASN	X	313	32.146	41.182	60.341	0.00	0.00
ATOM	4716	HA	ASN	X	313	32.218	40.094	60.338	0.00	0.00
ATOM	4717	CB	ASN	X	313	33.072	41.694	61.487	0.00	0.00
ATOM	4718	HB2	ASN	X	313	34.106	41.436	61.255	0.00	0.00
ATOM	4719	HB3	ASN	X	313	32.961	42.778	61.530	0.00	0.00
ATOM	4720	CG	ASN	X	313	32.631	41.068	62.795	0.00	0.00
ATOM	4721	OD1	ASN	X	313	31.977	40.061	62.986	0.00	0.00
ATOM	4722	ND2	ASN	X	313	33.128	41.717	63.842	0.00	0.00
ATOM	4723	HD21	ASN	X	313	32.758	41.491	64.754	0.00	0.00
ATOM	4724	HD22	ASN	X	313	33.925	42.321	63.701	0.00	0.00
ATOM	4725	C	ASN	X	313	30.669	41.620	60.431	0.00	0.00
ATOM	4726	O	ASN	X	313	29.816	40.716	60.653	0.00	0.00
ATOM	4727	N	ALA	X	314	30.345	42.876	60.183	0.00	0.00
ATOM	4728	H	ALA	X	314	31.039	43.503	59.803	0.00	0.00
ATOM	4729	CA	ALA	X	314	29.014	43.528	60.446	0.00	0.00
ATOM	4730	HA	ALA	X	314	28.429	42.949	61.161	0.00	0.00
ATOM	4731	CB	ALA	X	314	29.274	44.900	61.080	0.00	0.00
ATOM	4732	HB1	ALA	X	314	30.112	45.416	60.610	0.00	0.00
ATOM	4733	HB2	ALA	X	314	29.611	44.755	62.107	0.00	0.00
ATOM	4734	HB3	ALA	X	314	28.297	45.366	61.205	0.00	0.00
ATOM	4735	C	ALA	X	314	27.994	43.555	59.233	0.00	0.00
ATOM	4736	O	ALA	X	314	26.857	44.030	59.444	0.00	0.00
ATOM	4737	N	GLY	X	315	28.374	43.166	58.045	0.00	0.00
ATOM	4738	H	GLY	X	315	29.322	42.849	57.905	0.00	0.00
ATOM	4739	CA	GLY	X	315	27.436	43.247	56.868	0.00	0.00
ATOM	4740	HA2	GLY	X	315	26.609	43.905	57.132	0.00	0.00
ATOM	4741	HA3	GLY	X	315	27.935	43.648	55.985	0.00	0.00
ATOM	4742	C	GLY	X	315	26.840	41.880	56.481	0.00	0.00
ATOM	4743	O	GLY	X	315	27.371	40.810	56.833	0.00	0.00
ATOM	4744	N	ASP	X	316	25.616	41.911	55.895	0.00	0.00
ATOM	4745	H	ASP	X	316	25.313	42.783	55.485	0.00	0.00
ATOM	4746	CA	ASP	X	316	24.840	40.747	55.427	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.381	39.907	55.861	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.353	40.874	55.945	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.417	41.129	57.003	0.00	0.00
ATOM	4750	HB3	ASP	X	316	22.961	41.763	55.450	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.522	39.544	55.771	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.059	39.260	54.685	0.00	0.00
ATOM	4753	OD2	ASP	X	316	22.175	38.975	56.784	0.00	0.00
ATOM	4754	C	ASP	X	316	24.989	40.559	53.923	0.00	0.00
ATOM	4755	O	ASP	X	316	24.977	41.497	53.084	0.00	0.00
ATOM	4756	N	PHE	X	317	24.992	39.292	53.506	0.00	0.00
ATOM	4757	H	PHE	X	317	25.003	38.552	54.194	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.260	38.961	52.087	0.00	0.00
ATOM	4759	HA	PHE	X	317	25.176	39.784	51.378	0.00	0.00
ATOM	4760	CB	PHE	X	317	26.747	38.485	51.993	0.00	0.00
ATOM	4761	HB2	PHE	X	317	27.004	37.722	52.728	0.00	0.00
ATOM	4762	HB3	PHE	X	317	26.909	38.151	50.968	0.00	0.00
ATOM	4763	CG	PHE	X	317	27.705	39.688	52.065	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.115	40.438	50.958	0.00	0.00
ATOM	4765	HD1	PHE	X	317	27.815	40.272	49.934	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.010	41.503	51.120	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.268	42.126	50.276	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.592	41.828	52.381	0.00	0.00

ATOM	4769	HZ	PHE	X	317	30.389	42.520	52.611	0.00	0.00
ATOM	4770	CE2	PHE	X	317	29.089	41.176	53.532	0.00	0.00
ATOM	4771	HE2	PHE	X	317	29.528	41.314	54.509	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.272	40.072	53.346	0.00	0.00
ATOM	4773	HD2	PHE	X	317	28.048	39.583	54.282	0.00	0.00
ATOM	4774	C	PHE	X	317	24.231	37.923	51.506	0.00	0.00
ATOM	4775	O	PHE	X	317	24.371	37.486	50.377	0.00	0.00
ATOM	4776	N	HIE	X	318	23.113	37.675	52.205	0.00	0.00
ATOM	4777	H	HIE	X	318	22.935	38.192	53.055	0.00	0.00
ATOM	4778	CA	HIE	X	318	22.162	36.606	51.771	0.00	0.00
ATOM	4779	HA	HIE	X	318	22.632	35.638	51.943	0.00	0.00
ATOM	4780	CB	HIE	X	318	21.062	36.605	52.791	0.00	0.00
ATOM	4781	HB2	HIE	X	318	21.456	36.580	53.807	0.00	0.00
ATOM	4782	HB3	HIE	X	318	20.560	37.556	52.616	0.00	0.00
ATOM	4783	CG	HIE	X	318	20.065	35.502	52.725	0.00	0.00
ATOM	4784	ND1	HIE	X	318	20.321	34.271	52.224	0.00	0.00
ATOM	4785	CE1	HIE	X	318	19.184	33.549	52.479	0.00	0.00
ATOM	4786	HE1	HIE	X	318	19.035	32.493	52.308	0.00	0.00
ATOM	4787	NE2	HIE	X	318	18.216	34.323	53.081	0.00	0.00
ATOM	4788	HE2	HIE	X	318	17.268	34.115	53.358	0.00	0.00
ATOM	4789	CD2	HIE	X	318	18.814	35.574	53.213	0.00	0.00
ATOM	4790	HD2	HIE	X	318	18.272	36.469	53.478	0.00	0.00
ATOM	4791	C	HIE	X	318	21.594	36.713	50.314	0.00	0.00
ATOM	4792	O	HIE	X	318	20.966	37.738	49.963	0.00	0.00
ATOM	4793	N	GLY	X	319	21.745	35.648	49.544	0.00	0.00
ATOM	4794	H	GLY	X	319	22.185	34.855	49.989	0.00	0.00
ATOM	4795	CA	GLY	X	319	21.203	35.452	48.200	0.00	0.00
ATOM	4796	HA2	GLY	X	319	21.159	34.385	47.980	0.00	0.00
ATOM	4797	HA3	GLY	X	319	20.205	35.885	48.141	0.00	0.00
ATOM	4798	C	GLY	X	319	22.097	36.004	47.014	0.00	0.00
ATOM	4799	O	GLY	X	319	21.678	35.821	45.891	0.00	0.00
ATOM	4800	N	LEU	X	320	23.342	36.520	47.244	0.00	0.00
ATOM	4801	H	LEU	X	320	23.601	36.675	48.208	0.00	0.00
ATOM	4802	CA	LEU	X	320	24.406	36.917	46.219	0.00	0.00
ATOM	4803	HA	LEU	X	320	23.845	37.391	45.413	0.00	0.00
ATOM	4804	CB	LEU	X	320	25.302	37.872	46.874	0.00	0.00
ATOM	4805	HB2	LEU	X	320	25.883	37.265	47.569	0.00	0.00
ATOM	4806	HB3	LEU	X	320	26.024	38.195	46.125	0.00	0.00
ATOM	4807	CG	LEU	X	320	24.567	39.139	47.464	0.00	0.00
ATOM	4808	HG	LEU	X	320	23.813	38.707	48.122	0.00	0.00
ATOM	4809	CD1	LEU	X	320	25.523	40.053	48.141	0.00	0.00
ATOM	4810	HD11	LEU	X	320	26.373	40.329	47.517	0.00	0.00
ATOM	4811	HD12	LEU	X	320	25.948	39.548	49.008	0.00	0.00
ATOM	4812	HD13	LEU	X	320	24.959	40.913	48.501	0.00	0.00
ATOM	4813	CD2	LEU	X	320	23.865	39.962	46.387	0.00	0.00
ATOM	4814	HD21	LEU	X	320	24.582	40.458	45.733	0.00	0.00
ATOM	4815	HD22	LEU	X	320	23.148	39.331	45.862	0.00	0.00
ATOM	4816	HD23	LEU	X	320	23.262	40.764	46.811	0.00	0.00
ATOM	4817	C	LEU	X	320	25.040	35.675	45.482	0.00	0.00
ATOM	4818	O	LEU	X	320	25.296	34.611	46.070	0.00	0.00
ATOM	4819	N	GLN	X	321	25.364	35.791	44.230	0.00	0.00
ATOM	4820	H	GLN	X	321	25.042	36.664	43.836	0.00	0.00
ATOM	4821	CA	GLN	X	321	26.108	34.818	43.453	0.00	0.00
ATOM	4822	HA	GLN	X	321	26.189	33.939	44.093	0.00	0.00
ATOM	4823	CB	GLN	X	321	25.258	34.549	42.203	0.00	0.00
ATOM	4824	HB2	GLN	X	321	24.974	35.500	41.753	0.00	0.00
ATOM	4825	HB3	GLN	X	321	25.826	34.072	41.404	0.00	0.00
ATOM	4826	CG	GLN	X	321	23.968	33.813	42.599	0.00	0.00
ATOM	4827	HG2	GLN	X	321	24.300	32.854	42.995	0.00	0.00
ATOM	4828	HG3	GLN	X	321	23.452	34.355	43.393	0.00	0.00
ATOM	4829	CD	GLN	X	321	22.979	33.585	41.497	0.00	0.00
ATOM	4830	OE1	GLN	X	321	22.662	34.467	40.694	0.00	0.00
ATOM	4831	NE2	GLN	X	321	22.361	32.432	41.386	0.00	0.00
ATOM	4832	HE21	GLN	X	321	21.595	32.361	40.732	0.00	0.00
ATOM	4833	HE22	GLN	X	321	22.511	31.660	42.020	0.00	0.00
ATOM	4834	C	GLN	X	321	27.580	35.280	43.204	0.00	0.00
ATOM	4835	O	GLN	X	321	27.905	36.254	42.459	0.00	0.00

ATOM	4836	N	VAL	X	322	28.522	34.543	43.792	0.00	0.00
ATOM	4837	H	VAL	X	322	28.189	33.676	44.191	0.00	0.00
ATOM	4838	CA	VAL	X	322	29.938	34.803	43.885	0.00	0.00
ATOM	4839	HA	VAL	X	322	30.228	35.693	43.327	0.00	0.00
ATOM	4840	CB	VAL	X	322	30.209	35.142	45.386	0.00	0.00
ATOM	4841	HB	VAL	X	322	29.860	34.317	46.008	0.00	0.00
ATOM	4842	CG1	VAL	X	322	31.716	35.223	45.703	0.00	0.00
ATOM	4843	HG11	VAL	X	322	31.849	35.517	46.744	0.00	0.00
ATOM	4844	HG12	VAL	X	322	32.250	34.298	45.488	0.00	0.00
ATOM	4845	HG13	VAL	X	322	32.098	35.976	45.013	0.00	0.00
ATOM	4846	CG2	VAL	X	322	29.456	36.344	45.867	0.00	0.00
ATOM	4847	HG21	VAL	X	322	29.567	37.176	45.171	0.00	0.00
ATOM	4848	HG22	VAL	X	322	29.795	36.757	46.817	0.00	0.00
ATOM	4849	HG23	VAL	X	322	28.406	36.073	45.978	0.00	0.00
ATOM	4850	C	VAL	X	322	30.860	33.689	43.333	0.00	0.00
ATOM	4851	O	VAL	X	322	30.478	32.532	43.395	0.00	0.00
ATOM	4852	N	LEU	X	323	32.024	34.065	42.767	0.00	0.00
ATOM	4853	H	LEU	X	323	32.172	35.060	42.675	0.00	0.00
ATOM	4854	CA	LEU	X	323	33.042	33.178	42.310	0.00	0.00
ATOM	4855	HA	LEU	X	323	32.929	32.264	42.893	0.00	0.00
ATOM	4856	CB	LEU	X	323	32.720	32.852	40.812	0.00	0.00
ATOM	4857	HB2	LEU	X	323	31.673	32.577	40.683	0.00	0.00
ATOM	4858	HB3	LEU	X	323	32.891	33.797	40.298	0.00	0.00
ATOM	4859	CG	LEU	X	323	33.544	31.646	40.269	0.00	0.00
ATOM	4860	HG	LEU	X	323	33.742	30.857	40.994	0.00	0.00
ATOM	4861	CD1	LEU	X	323	32.761	31.123	39.094	0.00	0.00
ATOM	4862	HD11	LEU	X	323	31.712	30.974	39.349	0.00	0.00
ATOM	4863	HD12	LEU	X	323	33.196	30.149	38.871	0.00	0.00
ATOM	4864	HD13	LEU	X	323	32.775	31.686	38.161	0.00	0.00
ATOM	4865	CD2	LEU	X	323	34.978	32.129	39.958	0.00	0.00
ATOM	4866	HD21	LEU	X	323	35.463	31.349	39.371	0.00	0.00
ATOM	4867	HD22	LEU	X	323	35.046	33.068	39.409	0.00	0.00
ATOM	4868	HD23	LEU	X	323	35.549	32.341	40.862	0.00	0.00
ATOM	4869	C	LEU	X	323	34.461	33.730	42.661	0.00	0.00
ATOM	4870	O	LEU	X	323	34.728	34.868	42.434	0.00	0.00
ATOM	4871	N	VAL	X	324	35.260	32.834	43.247	0.00	0.00
ATOM	4872	H	VAL	X	324	35.008	31.856	43.214	0.00	0.00
ATOM	4873	CA	VAL	X	324	36.628	33.122	43.747	0.00	0.00
ATOM	4874	HA	VAL	X	324	36.958	33.984	43.167	0.00	0.00
ATOM	4875	CB	VAL	X	324	36.769	33.453	45.288	0.00	0.00
ATOM	4876	HB	VAL	X	324	37.643	34.104	45.290	0.00	0.00
ATOM	4877	CG1	VAL	X	324	35.591	34.252	45.853	0.00	0.00
ATOM	4878	HG11	VAL	X	324	34.671	33.668	45.827	0.00	0.00
ATOM	4879	HG12	VAL	X	324	35.773	34.458	46.907	0.00	0.00
ATOM	4880	HG13	VAL	X	324	35.542	35.197	45.312	0.00	0.00
ATOM	4881	CG2	VAL	X	324	36.899	32.302	46.240	0.00	0.00
ATOM	4882	HG21	VAL	X	324	35.958	31.777	46.402	0.00	0.00
ATOM	4883	HG22	VAL	X	324	37.170	32.750	47.196	0.00	0.00
ATOM	4884	HG23	VAL	X	324	37.596	31.511	45.963	0.00	0.00
ATOM	4885	C	VAL	X	324	37.669	32.075	43.376	0.00	0.00
ATOM	4886	O	VAL	X	324	37.358	30.966	42.950	0.00	0.00
ATOM	4887	N	GLY	X	325	38.957	32.508	43.583	0.00	0.00
ATOM	4888	H	GLY	X	325	39.101	33.499	43.712	0.00	0.00
ATOM	4889	CA	GLY	X	325	40.164	31.641	43.422	0.00	0.00
ATOM	4890	HA2	GLY	X	325	40.119	30.851	44.172	0.00	0.00
ATOM	4891	HA3	GLY	X	325	40.240	31.305	42.388	0.00	0.00
ATOM	4892	C	GLY	X	325	41.505	32.356	43.430	0.00	0.00
ATOM	4893	O	GLY	X	325	41.686	33.525	43.792	0.00	0.00
ATOM	4894	N	VAL	X	326	42.523	31.545	43.091	0.00	0.00
ATOM	4895	H	VAL	X	326	42.180	30.652	42.768	0.00	0.00
ATOM	4896	CA	VAL	X	326	43.950	31.818	42.896	0.00	0.00
ATOM	4897	HA	VAL	X	326	44.032	32.848	42.552	0.00	0.00
ATOM	4898	CB	VAL	X	326	44.736	31.571	44.276	0.00	0.00
ATOM	4899	HB	VAL	X	326	45.804	31.453	44.099	0.00	0.00
ATOM	4900	CG1	VAL	X	326	44.484	32.668	45.285	0.00	0.00
ATOM	4901	HG11	VAL	X	326	45.209	32.717	46.097	0.00	0.00
ATOM	4902	HG12	VAL	X	326	44.564	33.674	44.873	0.00	0.00

ATOM	4903	HG13	VAL	X	326	43.469	32.511	45.651	0.00	0.00
ATOM	4904	CG2	VAL	X	326	44.357	30.187	44.918	0.00	0.00
ATOM	4905	HG21	VAL	X	326	44.759	30.064	45.924	0.00	0.00
ATOM	4906	HG22	VAL	X	326	44.719	29.361	44.306	0.00	0.00
ATOM	4907	HG23	VAL	X	326	43.282	30.160	45.092	0.00	0.00
ATOM	4908	C	VAL	X	326	44.608	30.826	41.869	0.00	0.00
ATOM	4909	O	VAL	X	326	43.935	29.934	41.465	0.00	0.00
ATOM	4910	N	VAL	X	327	45.817	31.077	41.389	0.00	0.00
ATOM	4911	H	VAL	X	327	46.130	32.000	41.656	0.00	0.00
ATOM	4912	CA	VAL	X	327	46.652	30.151	40.573	0.00	0.00
ATOM	4913	HA	VAL	X	327	46.009	29.476	40.009	0.00	0.00
ATOM	4914	CB	VAL	X	327	47.582	30.888	39.653	0.00	0.00
ATOM	4915	HB	VAL	X	327	48.188	30.171	39.098	0.00	0.00
ATOM	4916	CG1	VAL	X	327	46.729	31.696	38.643	0.00	0.00
ATOM	4917	HG11	VAL	X	327	47.252	32.243	37.859	0.00	0.00
ATOM	4918	HG12	VAL	X	327	46.159	30.938	38.106	0.00	0.00
ATOM	4919	HG13	VAL	X	327	45.972	32.340	39.090	0.00	0.00
ATOM	4920	CG2	VAL	X	327	48.487	31.855	40.362	0.00	0.00
ATOM	4921	HG21	VAL	X	327	47.984	32.770	40.673	0.00	0.00
ATOM	4922	HG22	VAL	X	327	49.263	32.203	39.680	0.00	0.00
ATOM	4923	HG23	VAL	X	327	48.793	31.337	41.272	0.00	0.00
ATOM	4924	C	VAL	X	327	47.475	29.342	41.571	0.00	0.00
ATOM	4925	O	VAL	X	327	47.577	29.519	42.748	0.00	0.00
ATOM	4926	N	LYS	X	328	48.191	28.379	40.967	0.00	0.00
ATOM	4927	H	LYS	X	328	47.988	28.162	40.002	0.00	0.00
ATOM	4928	CA	LYS	X	328	48.992	27.430	41.680	0.00	0.00
ATOM	4929	HA	LYS	X	328	48.306	26.875	42.320	0.00	0.00
ATOM	4930	CB	LYS	X	328	49.621	26.449	40.608	0.00	0.00
ATOM	4931	HB2	LYS	X	328	48.722	26.013	40.173	0.00	0.00
ATOM	4932	HB3	LYS	X	328	50.192	26.946	39.824	0.00	0.00
ATOM	4933	CG	LYS	X	328	50.356	25.320	41.390	0.00	0.00
ATOM	4934	HG2	LYS	X	328	51.313	25.787	41.620	0.00	0.00
ATOM	4935	HG3	LYS	X	328	49.654	25.036	42.174	0.00	0.00
ATOM	4936	CD	LYS	X	328	50.544	24.090	40.513	0.00	0.00
ATOM	4937	HD2	LYS	X	328	50.795	23.227	41.129	0.00	0.00
ATOM	4938	HD3	LYS	X	328	49.726	23.812	39.847	0.00	0.00
ATOM	4939	CE	LYS	X	328	51.634	24.334	39.507	0.00	0.00
ATOM	4940	HE2	LYS	X	328	51.901	23.347	39.129	0.00	0.00
ATOM	4941	HE3	LYS	X	328	51.359	25.086	38.767	0.00	0.00
ATOM	4942	NZ	LYS	X	328	52.909	24.747	40.128	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	52.812	25.565	40.712	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	53.306	24.027	40.715	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	53.560	25.096	39.440	0.00	0.00
ATOM	4946	C	LYS	X	328	50.129	27.967	42.562	0.00	0.00
ATOM	4947	O	LYS	X	328	50.240	27.521	43.707	0.00	0.00
ATOM	4948	N	ASP	X	329	50.940	28.854	42.074	0.00	0.00
ATOM	4949	H	ASP	X	329	50.745	29.091	41.112	0.00	0.00
ATOM	4950	CA	ASP	X	329	52.107	29.348	42.697	0.00	0.00
ATOM	4951	HA	ASP	X	329	52.401	28.751	43.561	0.00	0.00
ATOM	4952	CB	ASP	X	329	53.343	29.232	41.748	0.00	0.00
ATOM	4953	HB2	ASP	X	329	53.179	29.815	40.842	0.00	0.00
ATOM	4954	HB3	ASP	X	329	54.185	29.674	42.281	0.00	0.00
ATOM	4955	CG	ASP	X	329	53.524	27.810	41.346	0.00	0.00
ATOM	4956	OD1	ASP	X	329	53.920	26.924	42.135	0.00	0.00
ATOM	4957	OD2	ASP	X	329	53.119	27.510	40.192	0.00	0.00
ATOM	4958	C	ASP	X	329	51.977	30.780	43.311	0.00	0.00
ATOM	4959	O	ASP	X	329	52.902	31.190	43.929	0.00	0.00
ATOM	4960	N	GLU	X	330	50.912	31.621	43.061	0.00	0.00
ATOM	4961	H	GLU	X	330	50.225	31.054	42.585	0.00	0.00
ATOM	4962	CA	GLU	X	330	50.663	32.942	43.593	0.00	0.00
ATOM	4963	HA	GLU	X	330	50.234	33.349	42.677	0.00	0.00
ATOM	4964	CB	GLU	X	330	49.642	33.163	44.740	0.00	0.00
ATOM	4965	HB2	GLU	X	330	49.875	32.572	45.626	0.00	0.00
ATOM	4966	HB3	GLU	X	330	49.656	34.195	45.093	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.152	32.823	44.227	0.00	0.00
ATOM	4968	HG2	GLU	X	330	48.080	31.839	43.764	0.00	0.00
ATOM	4969	HG3	GLU	X	330	47.523	32.890	45.115	0.00	0.00

ATOM	4970	CD	GLU	X	330	47.690	33.769	43.134	0.00	0.00
ATOM	4971	OE1	GLU	X	330	48.380	34.744	42.747	0.00	0.00
ATOM	4972	OE2	GLU	X	330	46.608	33.486	42.548	0.00	0.00
ATOM	4973	C	GLU	X	330	51.966	33.882	43.789	0.00	0.00
ATOM	4974	O	GLU	X	330	52.397	34.501	42.798	0.00	0.00
ATOM	4975	N	GLY	X	331	52.466	33.834	45.017	0.00	0.00
ATOM	4976	H	GLY	X	331	52.207	33.021	45.558	0.00	0.00
ATOM	4977	CA	GLY	X	331	53.456	34.781	45.591	0.00	0.00
ATOM	4978	HA2	GLY	X	331	53.243	35.829	45.379	0.00	0.00
ATOM	4979	HA3	GLY	X	331	53.617	34.553	46.644	0.00	0.00
ATOM	4980	C	GLY	X	331	54.837	34.619	44.944	0.00	0.00
ATOM	4981	O	GLY	X	331	55.720	35.366	45.336	0.00	0.00
ATOM	4982	N	SER	X	332	55.046	33.622	43.947	0.00	0.00
ATOM	4983	H	SER	X	332	54.283	32.997	43.730	0.00	0.00
ATOM	4984	CA	SER	X	332	56.278	33.473	43.185	0.00	0.00
ATOM	4985	HA	SER	X	332	57.117	33.535	43.877	0.00	0.00
ATOM	4986	CB	SER	X	332	56.334	32.126	42.462	0.00	0.00
ATOM	4987	HB2	SER	X	332	57.181	32.194	41.778	0.00	0.00
ATOM	4988	HB3	SER	X	332	56.476	31.221	43.053	0.00	0.00
ATOM	4989	OG	SER	X	332	55.113	32.073	41.709	0.00	0.00
ATOM	4990	HG	SER	X	332	55.086	31.389	41.036	0.00	0.00
ATOM	4991	C	SER	X	332	56.471	34.547	42.128	0.00	0.00
ATOM	4992	O	SER	X	332	57.566	34.663	41.529	0.00	0.00
ATOM	4993	N	TYR	X	333	55.451	35.247	41.772	0.00	0.00
ATOM	4994	H	TYR	X	333	54.562	34.962	42.159	0.00	0.00
ATOM	4995	CA	TYR	X	333	55.579	36.183	40.681	0.00	0.00
ATOM	4996	HA	TYR	X	333	56.158	35.690	39.900	0.00	0.00
ATOM	4997	CB	TYR	X	333	54.258	36.606	40.148	0.00	0.00
ATOM	4998	HB2	TYR	X	333	53.804	35.678	39.801	0.00	0.00
ATOM	4999	HB3	TYR	X	333	53.682	36.953	41.005	0.00	0.00
ATOM	5000	CG	TYR	X	333	54.016	37.762	39.232	0.00	0.00
ATOM	5001	CD1	TYR	X	333	54.646	37.792	38.006	0.00	0.00
ATOM	5002	HD1	TYR	X	333	55.258	36.953	37.706	0.00	0.00
ATOM	5003	CE1	TYR	X	333	54.386	38.836	37.074	0.00	0.00
ATOM	5004	HE1	TYR	X	333	54.934	38.891	36.146	0.00	0.00
ATOM	5005	CZ	TYR	X	333	53.524	39.897	37.382	0.00	0.00
ATOM	5006	OH	TYR	X	333	53.171	40.938	36.631	0.00	0.00
ATOM	5007	HH	TYR	X	333	53.770	41.011	35.884	0.00	0.00
ATOM	5008	CE2	TYR	X	333	52.977	39.890	38.697	0.00	0.00
ATOM	5009	HE2	TYR	X	333	52.294	40.676	38.985	0.00	0.00
ATOM	5010	CD2	TYR	X	333	53.303	38.865	39.620	0.00	0.00
ATOM	5011	HD2	TYR	X	333	52.911	38.818	40.625	0.00	0.00
ATOM	5012	C	TYR	X	333	56.374	37.468	41.107	0.00	0.00
ATOM	5013	O	TYR	X	333	57.180	37.973	40.323	0.00	0.00
ATOM	5014	N	PHE	X	334	56.189	38.009	42.376	0.00	0.00
ATOM	5015	H	PHE	X	334	55.415	37.624	42.898	0.00	0.00
ATOM	5016	CA	PHE	X	334	56.739	39.258	42.801	0.00	0.00
ATOM	5017	HA	PHE	X	334	56.705	39.919	41.935	0.00	0.00
ATOM	5018	CB	PHE	X	334	55.669	39.883	43.823	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.538	39.172	44.639	0.00	0.00
ATOM	5020	HB3	PHE	X	334	56.090	40.778	44.281	0.00	0.00
ATOM	5021	CG	PHE	X	334	54.313	40.141	43.261	0.00	0.00
ATOM	5022	CD1	PHE	X	334	53.175	39.270	43.468	0.00	0.00
ATOM	5023	HD1	PHE	X	334	53.262	38.291	43.915	0.00	0.00
ATOM	5024	CE1	PHE	X	334	51.886	39.759	43.133	0.00	0.00
ATOM	5025	HE1	PHE	X	334	51.118	39.034	43.361	0.00	0.00
ATOM	5026	CZ	PHE	X	334	51.712	40.987	42.427	0.00	0.00
ATOM	5027	HZ	PHE	X	334	50.718	41.278	42.121	0.00	0.00
ATOM	5028	CE2	PHE	X	334	52.855	41.789	42.285	0.00	0.00
ATOM	5029	HE2	PHE	X	334	52.815	42.679	41.674	0.00	0.00
ATOM	5030	CD2	PHE	X	334	54.161	41.340	42.601	0.00	0.00
ATOM	5031	HD2	PHE	X	334	55.054	41.896	42.353	0.00	0.00
ATOM	5032	C	PHE	X	334	58.181	39.305	43.401	0.00	0.00
ATOM	5033	O	PHE	X	334	58.795	40.320	43.543	0.00	0.00
ATOM	5034	N	LEU	X	335	58.811	38.091	43.523	0.00	0.00
ATOM	5035	H	LEU	X	335	58.387	37.327	43.016	0.00	0.00
ATOM	5036	CA	LEU	X	335	60.129	37.906	44.134	0.00	0.00

ATOM	5037	HA	LEU	X	335	60.185	38.496	45.049	0.00	0.00
ATOM	5038	CB	LEU	X	335	60.393	36.377	44.369	0.00	0.00
ATOM	5039	HB2	LEU	X	335	60.419	35.763	43.469	0.00	0.00
ATOM	5040	HB3	LEU	X	335	61.344	36.264	44.889	0.00	0.00
ATOM	5041	CG	LEU	X	335	59.273	35.777	45.314	0.00	0.00
ATOM	5042	HG	LEU	X	335	58.443	35.776	44.607	0.00	0.00
ATOM	5043	CD1	LEU	X	335	59.710	34.343	45.638	0.00	0.00
ATOM	5044	HD11	LEU	X	335	60.653	34.291	46.184	0.00	0.00
ATOM	5045	HD12	LEU	X	335	59.833	33.658	44.798	0.00	0.00
ATOM	5046	HD13	LEU	X	335	58.916	33.835	46.185	0.00	0.00
ATOM	5047	CD2	LEU	X	335	58.828	36.462	46.592	0.00	0.00
ATOM	5048	HD21	LEU	X	335	58.531	37.494	46.406	0.00	0.00
ATOM	5049	HD22	LEU	X	335	58.016	35.903	47.058	0.00	0.00
ATOM	5050	HD23	LEU	X	335	59.687	36.425	47.262	0.00	0.00
ATOM	5051	C	LEU	X	335	61.271	38.614	43.289	0.00	0.00
ATOM	5052	O	LEU	X	335	62.133	39.307	43.801	0.00	0.00
ATOM	5053	N	VAL	X	336	61.160	38.509	41.995	0.00	0.00
ATOM	5054	H	VAL	X	336	60.369	37.984	41.651	0.00	0.00
ATOM	5055	CA	VAL	X	336	62.064	39.206	41.033	0.00	0.00
ATOM	5056	HA	VAL	X	336	63.052	38.842	41.317	0.00	0.00
ATOM	5057	CB	VAL	X	336	61.725	38.781	39.555	0.00	0.00
ATOM	5058	HB	VAL	X	336	62.356	39.334	38.858	0.00	0.00
ATOM	5059	CG1	VAL	X	336	62.008	37.324	39.135	0.00	0.00
ATOM	5060	HG11	VAL	X	336	61.928	37.242	38.051	0.00	0.00
ATOM	5061	HG12	VAL	X	336	63.077	37.262	39.341	0.00	0.00
ATOM	5062	HG13	VAL	X	336	61.457	36.567	39.693	0.00	0.00
ATOM	5063	CG2	VAL	X	336	60.297	39.197	39.161	0.00	0.00
ATOM	5064	HG21	VAL	X	336	60.044	38.698	38.225	0.00	0.00
ATOM	5065	HG22	VAL	X	336	60.060	40.243	38.967	0.00	0.00
ATOM	5066	HG23	VAL	X	336	59.689	38.824	39.985	0.00	0.00
ATOM	5067	C	VAL	X	336	62.027	40.710	41.096	0.00	0.00
ATOM	5068	O	VAL	X	336	62.854	41.447	40.494	0.00	0.00
ATOM	5069	N	TYR	X	337	61.051	41.274	41.834	0.00	0.00
ATOM	5070	H	TYR	X	337	60.475	40.637	42.366	0.00	0.00
ATOM	5071	CA	TYR	X	337	60.931	42.730	41.977	0.00	0.00
ATOM	5072	HA	TYR	X	337	61.498	43.141	41.141	0.00	0.00
ATOM	5073	CB	TYR	X	337	59.419	43.066	41.748	0.00	0.00
ATOM	5074	HB2	TYR	X	337	58.875	42.373	42.390	0.00	0.00
ATOM	5075	HB3	TYR	X	337	59.134	44.080	42.029	0.00	0.00
ATOM	5076	CG	TYR	X	337	59.014	42.938	40.255	0.00	0.00
ATOM	5077	CD1	TYR	X	337	59.440	43.820	39.214	0.00	0.00
ATOM	5078	HD1	TYR	X	337	60.085	44.627	39.530	0.00	0.00
ATOM	5079	CE1	TYR	X	337	59.221	43.634	37.872	0.00	0.00
ATOM	5080	HE1	TYR	X	337	59.607	44.355	37.167	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.303	42.594	37.477	0.00	0.00
ATOM	5082	OH	TYR	X	337	57.785	42.435	36.230	0.00	0.00
ATOM	5083	HH	TYR	X	337	57.913	43.172	35.629	0.00	0.00
ATOM	5084	CE2	TYR	X	337	57.852	41.742	38.466	0.00	0.00
ATOM	5085	HE2	TYR	X	337	57.140	41.000	38.134	0.00	0.00
ATOM	5086	CD2	TYR	X	337	58.146	41.877	39.817	0.00	0.00
ATOM	5087	HD2	TYR	X	337	57.756	41.085	40.439	0.00	0.00
ATOM	5088	C	TYR	X	337	61.508	43.359	43.239	0.00	0.00
ATOM	5089	O	TYR	X	337	61.239	44.547	43.577	0.00	0.00
ATOM	5090	N	GLY	X	338	62.368	42.539	43.939	0.00	0.00
ATOM	5091	H	GLY	X	338	62.339	41.561	43.688	0.00	0.00
ATOM	5092	CA	GLY	X	338	63.197	43.016	45.084	0.00	0.00
ATOM	5093	HA2	GLY	X	338	64.215	43.162	44.723	0.00	0.00
ATOM	5094	HA3	GLY	X	338	62.744	43.952	45.410	0.00	0.00
ATOM	5095	C	GLY	X	338	63.271	42.176	46.316	0.00	0.00
ATOM	5096	O	GLY	X	338	63.600	42.640	47.437	0.00	0.00
ATOM	5097	N	ALA	X	339	63.133	40.873	46.156	0.00	0.00
ATOM	5098	H	ALA	X	339	62.830	40.506	45.265	0.00	0.00
ATOM	5099	CA	ALA	X	339	63.627	39.903	47.148	0.00	0.00
ATOM	5100	HA	ALA	X	339	63.742	40.452	48.082	0.00	0.00
ATOM	5101	CB	ALA	X	339	62.544	38.822	47.188	0.00	0.00
ATOM	5102	HB1	ALA	X	339	62.213	38.547	46.186	0.00	0.00
ATOM	5103	HB2	ALA	X	339	61.730	39.264	47.761	0.00	0.00

ATOM	5104	HB3	ALA	X	339	62.824	37.878	47.655	0.00	0.00
ATOM	5105	C	ALA	X	339	65.010	39.278	46.730	0.00	0.00
ATOM	5106	O	ALA	X	339	65.381	39.314	45.573	0.00	0.00
ATOM	5107	N	PRO	X	340	65.740	38.694	47.733	0.00	0.00
ATOM	5108	CD	PRO	X	340	65.384	38.646	49.135	0.00	0.00
ATOM	5109	HD2	PRO	X	340	64.431	38.136	49.277	0.00	0.00
ATOM	5110	HD3	PRO	X	340	65.285	39.664	49.512	0.00	0.00
ATOM	5111	CG	PRO	X	340	66.454	37.884	49.859	0.00	0.00
ATOM	5112	HG2	PRO	X	340	66.183	36.836	49.738	0.00	0.00
ATOM	5113	HG3	PRO	X	340	66.549	38.073	50.928	0.00	0.00
ATOM	5114	CB	PRO	X	340	67.672	38.255	49.021	0.00	0.00
ATOM	5115	HB2	PRO	X	340	68.537	37.605	49.150	0.00	0.00
ATOM	5116	HB3	PRO	X	340	68.060	39.146	49.515	0.00	0.00
ATOM	5117	CA	PRO	X	340	67.183	38.651	47.670	0.00	0.00
ATOM	5118	HA	PRO	X	340	67.611	39.623	47.424	0.00	0.00
ATOM	5119	C	PRO	X	340	67.758	37.787	46.602	0.00	0.00
ATOM	5120	O	PRO	X	340	67.586	36.597	46.636	0.00	0.00
ATOM	5121	N	GLY	X	341	68.397	38.374	45.570	0.00	0.00
ATOM	5122	H	GLY	X	341	68.340	39.374	45.439	0.00	0.00
ATOM	5123	CA	GLY	X	341	69.098	37.612	44.474	0.00	0.00
ATOM	5124	HA2	GLY	X	341	69.881	38.254	44.072	0.00	0.00
ATOM	5125	HA3	GLY	X	341	69.677	36.756	44.821	0.00	0.00
ATOM	5126	C	GLY	X	341	68.160	37.209	43.329	0.00	0.00
ATOM	5127	O	GLY	X	341	68.692	36.862	42.298	0.00	0.00
ATOM	5128	N	PHE	X	342	66.839	37.294	43.415	0.00	0.00
ATOM	5129	H	PHE	X	342	66.490	37.708	44.268	0.00	0.00
ATOM	5130	CA	PHE	X	342	65.892	36.882	42.378	0.00	0.00
ATOM	5131	HA	PHE	X	342	66.119	35.846	42.127	0.00	0.00
ATOM	5132	CB	PHE	X	342	64.461	36.881	42.980	0.00	0.00
ATOM	5133	HB2	PHE	X	342	64.334	37.871	43.418	0.00	0.00
ATOM	5134	HB3	PHE	X	342	63.762	36.700	42.164	0.00	0.00
ATOM	5135	CG	PHE	X	342	64.176	35.868	44.002	0.00	0.00
ATOM	5136	CD1	PHE	X	342	63.435	34.742	43.550	0.00	0.00
ATOM	5137	HD1	PHE	X	342	63.112	34.743	42.519	0.00	0.00
ATOM	5138	CE1	PHE	X	342	63.114	33.774	44.510	0.00	0.00
ATOM	5139	HE1	PHE	X	342	62.620	32.863	44.205	0.00	0.00
ATOM	5140	CZ	PHE	X	342	63.456	33.863	45.841	0.00	0.00
ATOM	5141	HZ	PHE	X	342	63.251	33.006	46.466	0.00	0.00
ATOM	5142	CE2	PHE	X	342	64.240	34.969	46.259	0.00	0.00
ATOM	5143	HE2	PHE	X	342	64.527	34.985	47.300	0.00	0.00
ATOM	5144	CD2	PHE	X	342	64.601	35.964	45.353	0.00	0.00
ATOM	5145	HD2	PHE	X	342	65.275	36.771	45.602	0.00	0.00
ATOM	5146	C	PHE	X	342	66.045	37.683	41.077	0.00	0.00
ATOM	5147	O	PHE	X	342	66.220	38.883	41.129	0.00	0.00
ATOM	5148	N	SER	X	343	65.860	37.079	39.865	0.00	0.00
ATOM	5149	H	SER	X	343	65.826	36.070	39.860	0.00	0.00
ATOM	5150	CA	SER	X	343	65.941	37.706	38.550	0.00	0.00
ATOM	5151	HA	SER	X	343	65.367	38.632	38.575	0.00	0.00
ATOM	5152	CB	SER	X	343	67.317	38.179	38.091	0.00	0.00
ATOM	5153	HB2	SER	X	343	67.752	38.566	39.013	0.00	0.00
ATOM	5154	HB3	SER	X	343	68.004	37.397	37.768	0.00	0.00
ATOM	5155	OG	SER	X	343	67.345	39.159	37.064	0.00	0.00
ATOM	5156	HG	SER	X	343	68.057	38.950	36.456	0.00	0.00
ATOM	5157	C	SER	X	343	65.240	36.753	37.461	0.00	0.00
ATOM	5158	O	SER	X	343	65.118	35.542	37.797	0.00	0.00
ATOM	5159	N	LYS	X	344	64.708	37.204	36.300	0.00	0.00
ATOM	5160	H	LYS	X	344	64.812	38.177	36.048	0.00	0.00
ATOM	5161	CA	LYS	X	344	63.648	36.445	35.595	0.00	0.00
ATOM	5162	HA	LYS	X	344	62.930	36.174	36.369	0.00	0.00
ATOM	5163	CB	LYS	X	344	63.034	37.342	34.539	0.00	0.00
ATOM	5164	HB2	LYS	X	344	62.294	36.760	33.991	0.00	0.00
ATOM	5165	HB3	LYS	X	344	62.608	38.259	34.947	0.00	0.00
ATOM	5166	CG	LYS	X	344	64.082	37.809	33.502	0.00	0.00
ATOM	5167	HG2	LYS	X	344	64.757	38.588	33.855	0.00	0.00
ATOM	5168	HG3	LYS	X	344	64.617	36.942	33.114	0.00	0.00
ATOM	5169	CD	LYS	X	344	63.261	38.331	32.295	0.00	0.00
ATOM	5170	HD2	LYS	X	344	62.645	37.539	31.870	0.00	0.00

ATOM	5171	HD3	LYS	X	344	62.558	39.025	32.757	0.00	0.00
ATOM	5172	CE	LYS	X	344	64.192	39.081	31.293	0.00	0.00
ATOM	5173	HE2	LYS	X	344	63.485	39.487	30.568	0.00	0.00
ATOM	5174	HE3	LYS	X	344	64.787	39.874	31.744	0.00	0.00
ATOM	5175	NZ	LYS	X	344	65.135	38.163	30.517	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	65.942	38.024	31.108	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	64.703	37.258	30.397	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	65.540	38.559	29.680	0.00	0.00
ATOM	5179	C	LYS	X	344	64.090	35.125	34.913	0.00	0.00
ATOM	5180	O	LYS	X	344	63.249	34.328	34.487	0.00	0.00
ATOM	5181	N	ASP	X	345	65.374	34.983	34.530	0.00	0.00
ATOM	5182	H	ASP	X	345	66.000	35.746	34.745	0.00	0.00
ATOM	5183	CA	ASP	X	345	65.989	33.751	33.949	0.00	0.00
ATOM	5184	HA	ASP	X	345	65.215	33.079	33.578	0.00	0.00
ATOM	5185	CB	ASP	X	345	66.948	34.195	32.787	0.00	0.00
ATOM	5186	HB2	ASP	X	345	67.254	33.298	32.249	0.00	0.00
ATOM	5187	HB3	ASP	X	345	66.378	34.669	31.988	0.00	0.00
ATOM	5188	CG	ASP	X	345	68.175	34.992	33.238	0.00	0.00
ATOM	5189	OD1	ASP	X	345	69.346	34.613	32.993	0.00	0.00
ATOM	5190	OD2	ASP	X	345	67.831	36.035	33.875	0.00	0.00
ATOM	5191	C	ASP	X	345	66.773	32.969	34.933	0.00	0.00
ATOM	5192	O	ASP	X	345	67.217	31.840	34.666	0.00	0.00
ATOM	5193	N	ASN	X	346	67.004	33.528	36.108	0.00	0.00
ATOM	5194	H	ASN	X	346	66.526	34.397	36.299	0.00	0.00
ATOM	5195	CA	ASN	X	346	67.991	32.992	37.090	0.00	0.00
ATOM	5196	HA	ASN	X	346	68.813	32.511	36.559	0.00	0.00
ATOM	5197	CB	ASN	X	346	68.518	34.229	37.808	0.00	0.00
ATOM	5198	HB2	ASN	X	346	68.845	34.973	37.082	0.00	0.00
ATOM	5199	HB3	ASN	X	346	67.852	34.696	38.534	0.00	0.00
ATOM	5200	CG	ASN	X	346	69.700	33.846	38.691	0.00	0.00
ATOM	5201	OD1	ASN	X	346	69.636	33.699	39.913	0.00	0.00
ATOM	5202	ND2	ASN	X	346	70.860	33.686	38.099	0.00	0.00
ATOM	5203	HD21	ASN	X	346	71.682	33.383	38.601	0.00	0.00
ATOM	5204	HD22	ASN	X	346	71.036	33.895	37.127	0.00	0.00
ATOM	5205	C	ASN	X	346	67.244	32.002	38.072	0.00	0.00
ATOM	5206	O	ASN	X	346	66.113	32.355	38.539	0.00	0.00
ATOM	5207	N	GLU	X	347	67.887	30.930	38.518	0.00	0.00
ATOM	5208	H	GLU	X	347	68.777	30.700	38.099	0.00	0.00
ATOM	5209	CA	GLU	X	347	67.277	29.886	39.436	0.00	0.00
ATOM	5210	HA	GLU	X	347	66.206	29.732	39.299	0.00	0.00
ATOM	5211	CB	GLU	X	347	68.142	28.616	39.519	0.00	0.00
ATOM	5212	HB2	GLU	X	347	69.191	28.890	39.627	0.00	0.00
ATOM	5213	HB3	GLU	X	347	67.827	28.016	40.373	0.00	0.00
ATOM	5214	CG	GLU	X	347	67.946	27.709	38.334	0.00	0.00
ATOM	5215	HG2	GLU	X	347	66.888	27.506	38.169	0.00	0.00
ATOM	5216	HG3	GLU	X	347	68.201	28.162	37.376	0.00	0.00
ATOM	5217	CD	GLU	X	347	68.688	26.388	38.442	0.00	0.00
ATOM	5218	OE1	GLU	X	347	68.015	25.381	38.192	0.00	0.00
ATOM	5219	OE2	GLU	X	347	69.935	26.311	38.673	0.00	0.00
ATOM	5220	C	GLU	X	347	67.209	30.521	40.859	0.00	0.00
ATOM	5221	O	GLU	X	347	66.479	29.881	41.641	0.00	0.00
ATOM	5222	N	SER	X	348	67.800	31.663	41.270	0.00	0.00
ATOM	5223	H	SER	X	348	68.291	32.101	40.504	0.00	0.00
ATOM	5224	CA	SER	X	348	67.359	32.490	42.384	0.00	0.00
ATOM	5225	HA	SER	X	348	68.108	33.281	42.414	0.00	0.00
ATOM	5226	CB	SER	X	348	65.987	33.101	41.977	0.00	0.00
ATOM	5227	HB2	SER	X	348	65.181	32.382	41.831	0.00	0.00
ATOM	5228	HB3	SER	X	348	65.723	33.756	42.807	0.00	0.00
ATOM	5229	OG	SER	X	348	66.134	33.866	40.818	0.00	0.00
ATOM	5230	HG	SER	X	348	66.065	33.313	40.036	0.00	0.00
ATOM	5231	C	SER	X	348	67.373	31.823	43.730	0.00	0.00
ATOM	5232	O	SER	X	348	66.620	32.179	44.655	0.00	0.00
ATOM	5233	N	LEU	X	349	68.162	30.791	43.810	0.00	0.00
ATOM	5234	H	LEU	X	349	68.626	30.647	42.924	0.00	0.00
ATOM	5235	CA	LEU	X	349	68.679	30.018	44.968	0.00	0.00
ATOM	5236	HA	LEU	X	349	67.902	29.347	45.335	0.00	0.00
ATOM	5237	CB	LEU	X	349	69.876	29.284	44.338	0.00	0.00

ATOM	5238	HB2	LEU	X	349	70.582	29.966	43.864	0.00	0.00
ATOM	5239	HB3	LEU	X	349	70.442	28.909	45.191	0.00	0.00
ATOM	5240	CG	LEU	X	349	69.497	28.270	43.227	0.00	0.00
ATOM	5241	HG	LEU	X	349	68.806	28.807	42.578	0.00	0.00
ATOM	5242	CD1	LEU	X	349	70.639	27.885	42.410	0.00	0.00
ATOM	5243	HD11	LEU	X	349	71.524	27.754	43.033	0.00	0.00
ATOM	5244	HD12	LEU	X	349	70.879	28.627	41.649	0.00	0.00
ATOM	5245	HD13	LEU	X	349	70.448	26.955	41.875	0.00	0.00
ATOM	5246	CD2	LEU	X	349	68.719	27.021	43.754	0.00	0.00
ATOM	5247	HD21	LEU	X	349	67.820	27.272	44.318	0.00	0.00
ATOM	5248	HD22	LEU	X	349	68.441	26.466	42.859	0.00	0.00
ATOM	5249	HD23	LEU	X	349	69.404	26.381	44.310	0.00	0.00
ATOM	5250	C	LEU	X	349	69.152	30.873	46.183	0.00	0.00
ATOM	5251	O	LEU	X	349	70.217	31.516	46.098	0.00	0.00
ATOM	5252	N	ILE	X	350	68.496	30.725	47.351	0.00	0.00
ATOM	5253	H	ILE	X	350	67.614	30.249	47.476	0.00	0.00
ATOM	5254	CA	ILE	X	350	68.836	31.483	48.615	0.00	0.00
ATOM	5255	HA	ILE	X	350	69.639	32.173	48.355	0.00	0.00
ATOM	5256	CB	ILE	X	350	67.659	32.312	49.151	0.00	0.00
ATOM	5257	HB	ILE	X	350	67.931	32.501	50.190	0.00	0.00
ATOM	5258	CG2	ILE	X	350	67.333	33.532	48.283	0.00	0.00
ATOM	5259	HG21	ILE	X	350	66.881	33.136	47.374	0.00	0.00
ATOM	5260	HG22	ILE	X	350	68.252	34.107	48.169	0.00	0.00
ATOM	5261	HG23	ILE	X	350	66.575	34.177	48.726	0.00	0.00
ATOM	5262	CG1	ILE	X	350	66.325	31.449	49.261	0.00	0.00
ATOM	5263	HG12	ILE	X	350	66.216	31.018	48.266	0.00	0.00
ATOM	5264	HG13	ILE	X	350	66.602	30.663	49.963	0.00	0.00
ATOM	5265	CD1	ILE	X	350	65.060	32.107	49.797	0.00	0.00
ATOM	5266	HD11	ILE	X	350	64.752	33.068	49.384	0.00	0.00
ATOM	5267	HD12	ILE	X	350	65.217	32.399	50.835	0.00	0.00
ATOM	5268	HD13	ILE	X	350	64.241	31.393	49.877	0.00	0.00
ATOM	5269	C	ILE	X	350	69.352	30.516	49.738	0.00	0.00
ATOM	5270	O	ILE	X	350	69.224	29.304	49.729	0.00	0.00
ATOM	5271	N	SER	X	351	70.135	31.082	50.597	0.00	0.00
ATOM	5272	H	SER	X	351	70.340	32.071	50.588	0.00	0.00
ATOM	5273	CA	SER	X	351	70.625	30.322	51.779	0.00	0.00
ATOM	5274	HA	SER	X	351	70.639	29.236	51.689	0.00	0.00
ATOM	5275	CB	SER	X	351	72.052	30.760	52.057	0.00	0.00
ATOM	5276	HB2	SER	X	351	72.418	30.191	52.912	0.00	0.00
ATOM	5277	HB3	SER	X	351	72.569	30.693	51.100	0.00	0.00
ATOM	5278	OG	SER	X	351	72.097	32.057	52.521	0.00	0.00
ATOM	5279	HG	SER	X	351	71.908	32.572	51.733	0.00	0.00
ATOM	5280	C	SER	X	351	69.696	30.757	52.960	0.00	0.00
ATOM	5281	O	SER	X	351	68.874	31.653	52.761	0.00	0.00
ATOM	5282	N	ARG	X	352	69.855	30.113	54.135	0.00	0.00
ATOM	5283	H	ARG	X	352	70.546	29.397	54.310	0.00	0.00
ATOM	5284	CA	ARG	X	352	69.014	30.575	55.289	0.00	0.00
ATOM	5285	HA	ARG	X	352	67.954	30.526	55.043	0.00	0.00
ATOM	5286	CB	ARG	X	352	69.141	29.569	56.422	0.00	0.00
ATOM	5287	HB2	ARG	X	352	70.138	29.609	56.862	0.00	0.00
ATOM	5288	HB3	ARG	X	352	68.434	29.908	57.179	0.00	0.00
ATOM	5289	CG	ARG	X	352	68.819	28.149	56.153	0.00	0.00
ATOM	5290	HG2	ARG	X	352	67.879	28.068	55.607	0.00	0.00
ATOM	5291	HG3	ARG	X	352	69.670	27.785	55.578	0.00	0.00
ATOM	5292	CD	ARG	X	352	68.802	27.219	57.407	0.00	0.00
ATOM	5293	HD2	ARG	X	352	68.805	26.162	57.144	0.00	0.00
ATOM	5294	HD3	ARG	X	352	69.763	27.443	57.870	0.00	0.00
ATOM	5295	NE	ARG	X	352	67.768	27.527	58.364	0.00	0.00
ATOM	5296	HE	ARG	X	352	68.143	27.994	59.177	0.00	0.00
ATOM	5297	CZ	ARG	X	352	66.411	27.293	58.223	0.00	0.00
ATOM	5298	NH1	ARG	X	352	65.854	26.526	57.306	0.00	0.00
ATOM	5299	HH11	ARG	X	352	66.320	26.317	56.435	0.00	0.00
ATOM	5300	HH12	ARG	X	352	64.847	26.447	57.298	0.00	0.00
ATOM	5301	NH2	ARG	X	352	65.569	27.952	58.982	0.00	0.00
ATOM	5302	HH21	ARG	X	352	65.948	28.446	59.777	0.00	0.00
ATOM	5303	HH22	ARG	X	352	64.631	27.590	59.074	0.00	0.00
ATOM	5304	C	ARG	X	352	69.271	32.009	55.716	0.00	0.00

ATOM	5305	O	ARG	X	352	68.319	32.636	56.235	0.00	0.00
ATOM	5306	N	ALA	X	353	70.448	32.563	55.397	0.00	0.00
ATOM	5307	H	ALA	X	353	71.141	31.994	54.932	0.00	0.00
ATOM	5308	CA	ALA	X	353	70.843	33.954	55.545	0.00	0.00
ATOM	5309	HA	ALA	X	353	70.584	34.266	56.557	0.00	0.00
ATOM	5310	CB	ALA	X	353	72.320	34.075	55.348	0.00	0.00
ATOM	5311	HB1	ALA	X	353	72.730	34.950	55.852	0.00	0.00
ATOM	5312	HB2	ALA	X	353	72.572	34.303	54.312	0.00	0.00
ATOM	5313	HB3	ALA	X	353	72.934	33.218	55.624	0.00	0.00
ATOM	5314	C	ALA	X	353	70.173	34.954	54.634	0.00	0.00
ATOM	5315	O	ALA	X	353	70.044	36.097	54.991	0.00	0.00
ATOM	5316	N	GLU	X	354	69.631	34.459	53.520	0.00	0.00
ATOM	5317	H	GLU	X	354	69.658	33.465	53.341	0.00	0.00
ATOM	5318	CA	GLU	X	354	68.781	35.320	52.692	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.937	36.387	52.850	0.00	0.00
ATOM	5320	CB	GLU	X	354	69.238	35.218	51.204	0.00	0.00
ATOM	5321	HB2	GLU	X	354	69.223	34.138	51.060	0.00	0.00
ATOM	5322	HB3	GLU	X	354	68.426	35.600	50.585	0.00	0.00
ATOM	5323	CG	GLU	X	354	70.584	35.835	50.785	0.00	0.00
ATOM	5324	HG2	GLU	X	354	70.615	36.138	49.738	0.00	0.00
ATOM	5325	HG3	GLU	X	354	70.853	36.748	51.316	0.00	0.00
ATOM	5326	CD	GLU	X	354	71.717	34.726	50.888	0.00	0.00
ATOM	5327	OE1	GLU	X	354	71.337	33.566	50.564	0.00	0.00
ATOM	5328	OE2	GLU	X	354	72.829	35.060	51.309	0.00	0.00
ATOM	5329	C	GLU	X	354	67.319	35.004	52.772	0.00	0.00
ATOM	5330	O	GLU	X	354	66.500	35.885	52.502	0.00	0.00
ATOM	5331	N	PHE	X	355	66.926	33.812	53.278	0.00	0.00
ATOM	5332	H	PHE	X	355	67.648	33.125	53.444	0.00	0.00
ATOM	5333	CA	PHE	X	355	65.519	33.387	53.479	0.00	0.00
ATOM	5334	HA	PHE	X	355	64.933	33.507	52.568	0.00	0.00
ATOM	5335	CB	PHE	X	355	65.489	31.938	53.971	0.00	0.00
ATOM	5336	HB2	PHE	X	355	65.962	31.344	53.190	0.00	0.00
ATOM	5337	HB3	PHE	X	355	66.019	31.866	54.920	0.00	0.00
ATOM	5338	CG	PHE	X	355	64.091	31.359	54.169	0.00	0.00
ATOM	5339	CD1	PHE	X	355	63.100	31.402	53.137	0.00	0.00
ATOM	5340	HD1	PHE	X	355	63.271	31.959	52.228	0.00	0.00
ATOM	5341	CE1	PHE	X	355	61.843	30.828	53.389	0.00	0.00
ATOM	5342	HE1	PHE	X	355	61.183	30.681	52.547	0.00	0.00
ATOM	5343	CZ	PHE	X	355	61.456	30.286	54.586	0.00	0.00
ATOM	5344	HZ	PHE	X	355	60.445	29.919	54.682	0.00	0.00
ATOM	5345	CE2	PHE	X	355	62.469	30.037	55.498	0.00	0.00
ATOM	5346	HE2	PHE	X	355	62.097	29.370	56.262	0.00	0.00
ATOM	5347	CD2	PHE	X	355	63.782	30.612	55.404	0.00	0.00
ATOM	5348	HD2	PHE	X	355	64.528	30.330	56.132	0.00	0.00
ATOM	5349	C	PHE	X	355	64.870	34.316	54.482	0.00	0.00
ATOM	5350	O	PHE	X	355	63.762	34.735	54.269	0.00	0.00
ATOM	5351	N	LEU	X	356	65.466	34.629	55.664	0.00	0.00
ATOM	5352	H	LEU	X	356	66.330	34.132	55.829	0.00	0.00
ATOM	5353	CA	LEU	X	356	64.974	35.537	56.629	0.00	0.00
ATOM	5354	HA	LEU	X	356	64.038	35.051	56.902	0.00	0.00
ATOM	5355	CB	LEU	X	356	65.815	35.629	57.971	0.00	0.00
ATOM	5356	HB2	LEU	X	356	65.732	34.749	58.609	0.00	0.00
ATOM	5357	HB3	LEU	X	356	66.883	35.660	57.754	0.00	0.00
ATOM	5358	CG	LEU	X	356	65.434	36.802	58.931	0.00	0.00
ATOM	5359	HG	LEU	X	356	65.583	37.814	58.556	0.00	0.00
ATOM	5360	CD1	LEU	X	356	64.013	36.725	59.485	0.00	0.00
ATOM	5361	HD11	LEU	X	356	63.792	35.728	59.866	0.00	0.00
ATOM	5362	HD12	LEU	X	356	63.212	36.876	58.761	0.00	0.00
ATOM	5363	HD13	LEU	X	356	63.903	37.449	60.292	0.00	0.00
ATOM	5364	CD2	LEU	X	356	66.500	36.774	60.032	0.00	0.00
ATOM	5365	HD21	LEU	X	356	66.291	37.488	60.828	0.00	0.00
ATOM	5366	HD22	LEU	X	356	66.591	35.763	60.427	0.00	0.00
ATOM	5367	HD23	LEU	X	356	67.554	36.915	59.795	0.00	0.00
ATOM	5368	C	LEU	X	356	64.755	36.868	56.019	0.00	0.00
ATOM	5369	O	LEU	X	356	63.708	37.534	56.163	0.00	0.00
ATOM	5370	N	ALA	X	357	65.736	37.454	55.384	0.00	0.00
ATOM	5371	H	ALA	X	357	66.599	36.970	55.183	0.00	0.00

ATOM	5372	CA	ALA	X	357	65.683	38.753	54.663	0.00	0.00
ATOM	5373	HA	ALA	X	357	65.536	39.469	55.472	0.00	0.00
ATOM	5374	CB	ALA	X	357	67.110	39.026	54.120	0.00	0.00
ATOM	5375	HB1	ALA	X	357	67.329	40.003	53.688	0.00	0.00
ATOM	5376	HB2	ALA	X	357	67.314	38.278	53.355	0.00	0.00
ATOM	5377	HB3	ALA	X	357	67.852	38.948	54.915	0.00	0.00
ATOM	5378	C	ALA	X	357	64.533	38.805	53.636	0.00	0.00
ATOM	5379	O	ALA	X	357	63.879	39.852	53.520	0.00	0.00
ATOM	5380	N	GLY	X	358	64.297	37.716	52.870	0.00	0.00
ATOM	5381	H	GLY	X	358	64.975	36.968	52.820	0.00	0.00
ATOM	5382	CA	GLY	X	358	63.193	37.554	51.897	0.00	0.00
ATOM	5383	HA2	GLY	X	358	63.037	38.376	51.199	0.00	0.00
ATOM	5384	HA3	GLY	X	358	63.321	36.630	51.333	0.00	0.00
ATOM	5385	C	GLY	X	358	61.866	37.511	52.649	0.00	0.00
ATOM	5386	O	GLY	X	358	60.979	38.188	52.158	0.00	0.00
ATOM	5387	N	VAL	X	359	61.731	36.702	53.723	0.00	0.00
ATOM	5388	H	VAL	X	359	62.520	36.106	53.927	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.497	36.611	54.602	0.00	0.00
ATOM	5390	HA	VAL	X	359	59.599	36.475	54.000	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.539	35.381	55.558	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.490	35.484	56.082	0.00	0.00
ATOM	5393	CG1	VAL	X	359	59.350	35.403	56.547	0.00	0.00
ATOM	5394	HG11	VAL	X	359	58.475	35.808	56.037	0.00	0.00
ATOM	5395	HG12	VAL	X	359	59.239	34.383	56.915	0.00	0.00
ATOM	5396	HG13	VAL	X	359	59.416	36.015	57.446	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.458	34.088	54.732	0.00	0.00
ATOM	5398	HG21	VAL	X	359	59.490	33.981	54.243	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.525	33.128	55.245	0.00	0.00
ATOM	5400	HG23	VAL	X	359	61.276	34.043	54.012	0.00	0.00
ATOM	5401	C	VAL	X	359	60.154	37.965	55.255	0.00	0.00
ATOM	5402	O	VAL	X	359	59.036	38.350	55.274	0.00	0.00
ATOM	5403	N	ARG	X	360	61.172	38.858	55.618	0.00	0.00
ATOM	5404	H	ARG	X	360	62.117	38.515	55.706	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.954	40.119	56.252	0.00	0.00
ATOM	5406	HA	ARG	X	360	60.201	39.960	57.025	0.00	0.00
ATOM	5407	CB	ARG	X	360	62.277	40.456	56.959	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.751	39.677	57.556	0.00	0.00
ATOM	5409	HB3	ARG	X	360	63.048	40.799	56.268	0.00	0.00
ATOM	5410	CG	ARG	X	360	62.068	41.763	57.854	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.922	42.729	57.370	0.00	0.00
ATOM	5412	HG3	ARG	X	360	61.226	41.653	58.537	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.318	42.047	58.754	0.00	0.00
ATOM	5414	HD2	ARG	X	360	63.058	42.861	59.431	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.489	41.142	59.337	0.00	0.00
ATOM	5416	NE	ARG	X	360	64.483	42.462	57.924	0.00	0.00
ATOM	5417	HE	ARG	X	360	64.236	43.088	57.171	0.00	0.00
ATOM	5418	CZ	ARG	X	360	65.699	41.992	58.010	0.00	0.00
ATOM	5419	NH1	ARG	X	360	66.060	41.268	59.013	0.00	0.00
ATOM	5420	HH11	ARG	X	360	65.410	41.074	59.761	0.00	0.00
ATOM	5421	HH12	ARG	X	360	66.987	40.866	59.019	0.00	0.00
ATOM	5422	NH2	ARG	X	360	66.597	42.108	57.056	0.00	0.00
ATOM	5423	HH21	ARG	X	360	66.359	42.778	56.338	0.00	0.00
ATOM	5424	HH22	ARG	X	360	67.561	41.815	57.114	0.00	0.00
ATOM	5425	C	ARG	X	360	60.415	41.148	55.296	0.00	0.00
ATOM	5426	O	ARG	X	360	59.480	41.873	55.677	0.00	0.00
ATOM	5427	N	VAL	X	361	60.880	41.135	54.005	0.00	0.00
ATOM	5428	H	VAL	X	361	61.633	40.523	53.726	0.00	0.00
ATOM	5429	CA	VAL	X	361	60.205	41.984	52.996	0.00	0.00
ATOM	5430	HA	VAL	X	361	59.845	42.901	53.461	0.00	0.00
ATOM	5431	CB	VAL	X	361	61.198	42.409	51.818	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.709	43.192	51.239	0.00	0.00
ATOM	5433	CG1	VAL	X	361	62.552	43.039	52.288	0.00	0.00
ATOM	5434	HG11	VAL	X	361	63.237	42.403	52.848	0.00	0.00
ATOM	5435	HG12	VAL	X	361	63.089	43.514	51.466	0.00	0.00
ATOM	5436	HG13	VAL	X	361	62.223	43.790	53.006	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.538	41.249	50.872	0.00	0.00
ATOM	5438	HG21	VAL	X	361	62.246	40.608	51.398	0.00	0.00

ATOM	5439	HG22	VAL	X	361	61.892	41.735	49.962	0.00	0.00
ATOM	5440	HG23	VAL	X	361	60.646	40.696	50.576	0.00	0.00
ATOM	5441	C	VAL	X	361	58.897	41.319	52.591	0.00	0.00
ATOM	5442	O	VAL	X	361	58.085	41.934	51.978	0.00	0.00
ATOM	5443	N	GLY	X	362	58.767	39.962	52.851	0.00	0.00
ATOM	5444	H	GLY	X	362	59.522	39.374	53.175	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.546	39.211	52.302	0.00	0.00
ATOM	5446	HA2	GLY	X	362	57.374	39.483	51.261	0.00	0.00
ATOM	5447	HA3	GLY	X	362	57.725	38.148	52.464	0.00	0.00
ATOM	5448	C	GLY	X	362	56.301	39.493	53.248	0.00	0.00
ATOM	5449	O	GLY	X	362	55.161	39.474	52.815	0.00	0.00
ATOM	5450	N	VAL	X	363	56.621	39.818	54.459	0.00	0.00
ATOM	5451	H	VAL	X	363	57.571	39.653	54.759	0.00	0.00
ATOM	5452	CA	VAL	X	363	55.619	40.155	55.560	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.563	40.177	55.288	0.00	0.00
ATOM	5454	CB	VAL	X	363	55.555	39.069	56.692	0.00	0.00
ATOM	5455	HB	VAL	X	363	56.514	39.218	57.188	0.00	0.00
ATOM	5456	CG1	VAL	X	363	54.345	39.285	57.647	0.00	0.00
ATOM	5457	HG11	VAL	X	363	53.848	38.323	57.774	0.00	0.00
ATOM	5458	HG12	VAL	X	363	54.660	39.589	58.646	0.00	0.00
ATOM	5459	HG13	VAL	X	363	53.639	39.996	57.219	0.00	0.00
ATOM	5460	CG2	VAL	X	363	55.627	37.664	56.084	0.00	0.00
ATOM	5461	HG21	VAL	X	363	54.793	37.394	55.436	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.662	36.835	56.791	0.00	0.00
ATOM	5463	HG23	VAL	X	363	56.595	37.458	55.628	0.00	0.00
ATOM	5464	C	VAL	X	363	55.862	41.584	56.114	0.00	0.00
ATOM	5465	O	VAL	X	363	56.413	41.787	57.185	0.00	0.00
ATOM	5466	N	PRO	X	364	55.402	42.670	55.361	0.00	0.00
ATOM	5467	CD	PRO	X	364	55.078	42.504	53.925	0.00	0.00
ATOM	5468	HD2	PRO	X	364	54.127	42.033	53.679	0.00	0.00
ATOM	5469	HD3	PRO	X	364	55.840	41.928	53.401	0.00	0.00
ATOM	5470	CG	PRO	X	364	55.108	43.876	53.361	0.00	0.00
ATOM	5471	HG2	PRO	X	364	54.168	44.148	52.879	0.00	0.00
ATOM	5472	HG3	PRO	X	364	55.969	43.894	52.694	0.00	0.00
ATOM	5473	CB	PRO	X	364	55.280	44.876	54.468	0.00	0.00
ATOM	5474	HB2	PRO	X	364	54.288	45.300	54.622	0.00	0.00
ATOM	5475	HB3	PRO	X	364	56.003	45.579	54.056	0.00	0.00
ATOM	5476	CA	PRO	X	364	55.654	44.064	55.709	0.00	0.00
ATOM	5477	HA	PRO	X	364	56.688	44.377	55.855	0.00	0.00
ATOM	5478	C	PRO	X	364	54.913	44.565	56.938	0.00	0.00
ATOM	5479	O	PRO	X	364	54.017	43.880	57.401	0.00	0.00
ATOM	5480	N	GLN	X	365	55.458	45.587	57.622	0.00	0.00
ATOM	5481	H	GLN	X	365	56.219	46.164	57.291	0.00	0.00
ATOM	5482	CA	GLN	X	365	54.893	46.216	58.848	0.00	0.00
ATOM	5483	HA	GLN	X	365	55.550	47.068	59.023	0.00	0.00
ATOM	5484	CB	GLN	X	365	53.429	46.692	58.567	0.00	0.00
ATOM	5485	HB2	GLN	X	365	52.668	45.955	58.312	0.00	0.00
ATOM	5486	HB3	GLN	X	365	53.102	47.062	59.539	0.00	0.00
ATOM	5487	CG	GLN	X	365	53.488	48.011	57.692	0.00	0.00
ATOM	5488	HG2	GLN	X	365	54.183	48.689	58.186	0.00	0.00
ATOM	5489	HG3	GLN	X	365	53.754	47.749	56.668	0.00	0.00
ATOM	5490	CD	GLN	X	365	52.103	48.694	57.569	0.00	0.00
ATOM	5491	OE1	GLN	X	365	51.328	48.581	56.655	0.00	0.00
ATOM	5492	NE2	GLN	X	365	51.683	49.351	58.576	0.00	0.00
ATOM	5493	HE21	GLN	X	365	50.729	49.682	58.589	0.00	0.00
ATOM	5494	HE22	GLN	X	365	52.238	49.422	59.417	0.00	0.00
ATOM	5495	C	GLN	X	365	55.025	45.270	60.061	0.00	0.00
ATOM	5496	O	GLN	X	365	54.774	45.768	61.209	0.00	0.00
ATOM	5497	N	VAL	X	366	55.504	44.051	59.938	0.00	0.00
ATOM	5498	H	VAL	X	366	55.678	43.762	58.985	0.00	0.00
ATOM	5499	CA	VAL	X	366	55.643	43.072	61.021	0.00	0.00
ATOM	5500	HA	VAL	X	366	55.138	43.379	61.936	0.00	0.00
ATOM	5501	CB	VAL	X	366	55.013	41.720	60.607	0.00	0.00
ATOM	5502	HB	VAL	X	366	55.442	41.437	59.645	0.00	0.00
ATOM	5503	CG1	VAL	X	366	55.205	40.491	61.652	0.00	0.00
ATOM	5504	HG11	VAL	X	366	55.031	40.850	62.666	0.00	0.00
ATOM	5505	HG12	VAL	X	366	54.542	39.671	61.374	0.00	0.00

ATOM	5506	HG13	VAL	X	366	56.224	40.194	61.407	0.00	0.00
ATOM	5507	CG2	VAL	X	366	53.465	41.956	60.426	0.00	0.00
ATOM	5508	HG21	VAL	X	366	52.839	41.098	60.178	0.00	0.00
ATOM	5509	HG22	VAL	X	366	53.220	42.658	59.629	0.00	0.00
ATOM	5510	HG23	VAL	X	366	53.039	42.416	61.317	0.00	0.00
ATOM	5511	C	VAL	X	366	57.131	42.959	61.357	0.00	0.00
ATOM	5512	O	VAL	X	366	58.001	43.302	60.615	0.00	0.00
ATOM	5513	N	SER	X	367	57.372	42.583	62.628	0.00	0.00
ATOM	5514	H	SER	X	367	56.587	42.425	63.244	0.00	0.00
ATOM	5515	CA	SER	X	367	58.653	42.607	63.277	0.00	0.00
ATOM	5516	HA	SER	X	367	59.169	43.549	63.091	0.00	0.00
ATOM	5517	CB	SER	X	367	58.532	42.501	64.774	0.00	0.00
ATOM	5518	HB2	SER	X	367	59.446	42.686	65.338	0.00	0.00
ATOM	5519	HB3	SER	X	367	57.882	43.276	65.178	0.00	0.00
ATOM	5520	OG	SER	X	367	57.978	41.238	65.090	0.00	0.00
ATOM	5521	HG	SER	X	367	57.714	41.179	66.011	0.00	0.00
ATOM	5522	C	SER	X	367	59.616	41.513	62.645	0.00	0.00
ATOM	5523	O	SER	X	367	59.213	40.355	62.290	0.00	0.00
ATOM	5524	N	ASP	X	368	60.919	41.756	62.787	0.00	0.00
ATOM	5525	H	ASP	X	368	61.160	42.706	63.028	0.00	0.00
ATOM	5526	CA	ASP	X	368	62.045	40.850	62.546	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.103	40.499	61.516	0.00	0.00
ATOM	5528	CB	ASP	X	368	63.226	41.714	62.858	0.00	0.00
ATOM	5529	HB2	ASP	X	368	63.166	42.669	62.335	0.00	0.00
ATOM	5530	HB3	ASP	X	368	63.333	41.923	63.922	0.00	0.00
ATOM	5531	CG	ASP	X	368	64.549	41.116	62.443	0.00	0.00
ATOM	5532	OD1	ASP	X	368	65.539	41.307	63.189	0.00	0.00
ATOM	5533	OD2	ASP	X	368	64.779	40.706	61.305	0.00	0.00
ATOM	5534	C	ASP	X	368	62.045	39.580	63.464	0.00	0.00
ATOM	5535	O	ASP	X	368	62.559	38.526	63.021	0.00	0.00
ATOM	5536	N	LEU	X	369	61.523	39.648	64.743	0.00	0.00
ATOM	5537	H	LEU	X	369	61.258	40.576	65.042	0.00	0.00
ATOM	5538	CA	LEU	X	369	61.124	38.507	65.662	0.00	0.00
ATOM	5539	HA	LEU	X	369	61.879	37.727	65.756	0.00	0.00
ATOM	5540	CB	LEU	X	369	60.689	39.090	67.017	0.00	0.00
ATOM	5541	HB2	LEU	X	369	59.963	39.902	66.983	0.00	0.00
ATOM	5542	HB3	LEU	X	369	60.182	38.283	67.546	0.00	0.00
ATOM	5543	CG	LEU	X	369	61.815	39.572	67.897	0.00	0.00
ATOM	5544	HG	LEU	X	369	62.606	38.845	67.714	0.00	0.00
ATOM	5545	CD1	LEU	X	369	62.396	40.918	67.594	0.00	0.00
ATOM	5546	HD11	LEU	X	369	61.726	41.725	67.889	0.00	0.00
ATOM	5547	HD12	LEU	X	369	62.644	41.041	66.539	0.00	0.00
ATOM	5548	HD13	LEU	X	369	63.264	40.914	68.254	0.00	0.00
ATOM	5549	CD2	LEU	X	369	61.494	39.514	69.401	0.00	0.00
ATOM	5550	HD21	LEU	X	369	61.420	38.477	69.729	0.00	0.00
ATOM	5551	HD22	LEU	X	369	62.283	40.012	69.965	0.00	0.00
ATOM	5552	HD23	LEU	X	369	60.512	39.984	69.456	0.00	0.00
ATOM	5553	C	LEU	X	369	59.895	37.672	65.180	0.00	0.00
ATOM	5554	O	LEU	X	369	59.801	36.467	65.417	0.00	0.00
ATOM	5555	N	ALA	X	370	58.898	38.275	64.563	0.00	0.00
ATOM	5556	H	ALA	X	370	58.903	39.283	64.499	0.00	0.00
ATOM	5557	CA	ALA	X	370	57.754	37.551	64.011	0.00	0.00
ATOM	5558	HA	ALA	X	370	57.278	36.869	64.715	0.00	0.00
ATOM	5559	CB	ALA	X	370	56.622	38.600	63.842	0.00	0.00
ATOM	5560	HB1	ALA	X	370	56.349	38.800	64.879	0.00	0.00
ATOM	5561	HB2	ALA	X	370	55.816	38.068	63.338	0.00	0.00
ATOM	5562	HB3	ALA	X	370	56.980	39.488	63.321	0.00	0.00
ATOM	5563	C	ALA	X	370	58.059	36.892	62.681	0.00	0.00
ATOM	5564	O	ALA	X	370	57.719	35.731	62.513	0.00	0.00
ATOM	5565	N	ALA	X	371	58.950	37.509	61.921	0.00	0.00
ATOM	5566	H	ALA	X	371	59.199	38.437	62.233	0.00	0.00
ATOM	5567	CA	ALA	X	371	59.530	36.941	60.741	0.00	0.00
ATOM	5568	HA	ALA	X	371	58.683	36.694	60.101	0.00	0.00
ATOM	5569	CB	ALA	X	371	60.265	38.105	60.098	0.00	0.00
ATOM	5570	HB1	ALA	X	371	61.114	38.403	60.714	0.00	0.00
ATOM	5571	HB2	ALA	X	371	59.549	38.910	59.934	0.00	0.00
ATOM	5572	HB3	ALA	X	371	60.557	37.749	59.111	0.00	0.00

ATOM	5573	C	ALA	X	371	60.457	35.687	61.060	0.00	0.00
ATOM	5574	O	ALA	X	371	60.281	34.632	60.462	0.00	0.00
ATOM	5575	N	GLU	X	372	61.299	35.682	62.127	0.00	0.00
ATOM	5576	H	GLU	X	372	61.567	36.576	62.514	0.00	0.00
ATOM	5577	CA	GLU	X	372	61.937	34.452	62.587	0.00	0.00
ATOM	5578	HA	GLU	X	372	62.486	34.022	61.749	0.00	0.00
ATOM	5579	CB	GLU	X	372	63.077	34.770	63.561	0.00	0.00
ATOM	5580	HB2	GLU	X	372	63.745	35.368	62.940	0.00	0.00
ATOM	5581	HB3	GLU	X	372	62.661	35.356	64.380	0.00	0.00
ATOM	5582	CG	GLU	X	372	63.863	33.532	64.017	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.273	32.880	64.660	0.00	0.00
ATOM	5584	HG3	GLU	X	372	64.159	32.869	63.204	0.00	0.00
ATOM	5585	CD	GLU	X	372	65.153	33.947	64.702	0.00	0.00
ATOM	5586	OE1	GLU	X	372	66.265	33.515	64.297	0.00	0.00
ATOM	5587	OE2	GLU	X	372	65.065	34.736	65.659	0.00	0.00
ATOM	5588	C	GLU	X	372	60.953	33.396	63.163	0.00	0.00
ATOM	5589	O	GLU	X	372	61.181	32.218	63.093	0.00	0.00
ATOM	5590	N	ALA	X	373	59.782	33.826	63.663	0.00	0.00
ATOM	5591	H	ALA	X	373	59.572	34.814	63.657	0.00	0.00
ATOM	5592	CA	ALA	X	373	58.655	32.982	64.049	0.00	0.00
ATOM	5593	HA	ALA	X	373	58.908	32.093	64.626	0.00	0.00
ATOM	5594	CB	ALA	X	373	57.686	33.786	64.949	0.00	0.00
ATOM	5595	HB1	ALA	X	373	57.003	33.086	65.431	0.00	0.00
ATOM	5596	HB2	ALA	X	373	57.023	34.414	64.354	0.00	0.00
ATOM	5597	HB3	ALA	X	373	58.259	34.376	65.663	0.00	0.00
ATOM	5598	C	ALA	X	373	57.901	32.349	62.856	0.00	0.00
ATOM	5599	O	ALA	X	373	57.437	31.195	62.969	0.00	0.00
ATOM	5600	N	VAL	X	374	57.865	32.984	61.718	0.00	0.00
ATOM	5601	H	VAL	X	374	58.221	33.928	61.767	0.00	0.00
ATOM	5602	CA	VAL	X	374	57.459	32.463	60.392	0.00	0.00
ATOM	5603	HA	VAL	X	374	56.605	31.806	60.549	0.00	0.00
ATOM	5604	CB	VAL	X	374	57.109	33.566	59.382	0.00	0.00
ATOM	5605	HB	VAL	X	374	58.061	34.058	59.182	0.00	0.00
ATOM	5606	CG1	VAL	X	374	56.579	32.959	57.993	0.00	0.00
ATOM	5607	HG11	VAL	X	374	57.460	32.517	57.527	0.00	0.00
ATOM	5608	HG12	VAL	X	374	55.728	32.291	58.125	0.00	0.00
ATOM	5609	HG13	VAL	X	374	56.236	33.764	57.343	0.00	0.00
ATOM	5610	CG2	VAL	X	374	56.016	34.489	59.895	0.00	0.00
ATOM	5611	HG21	VAL	X	374	55.938	35.485	59.458	0.00	0.00
ATOM	5612	HG22	VAL	X	374	56.112	34.665	60.966	0.00	0.00
ATOM	5613	HG23	VAL	X	374	55.037	34.044	59.720	0.00	0.00
ATOM	5614	C	VAL	X	374	58.438	31.507	59.757	0.00	0.00
ATOM	5615	O	VAL	X	374	58.105	30.363	59.476	0.00	0.00
ATOM	5616	N	VAL	X	375	59.750	31.851	59.697	0.00	0.00
ATOM	5617	H	VAL	X	375	59.994	32.760	60.064	0.00	0.00
ATOM	5618	CA	VAL	X	375	60.881	31.040	59.221	0.00	0.00
ATOM	5619	HA	VAL	X	375	60.817	31.019	58.133	0.00	0.00
ATOM	5620	CB	VAL	X	375	62.288	31.645	59.565	0.00	0.00
ATOM	5621	HB	VAL	X	375	62.142	32.049	60.567	0.00	0.00
ATOM	5622	CG1	VAL	X	375	63.485	30.671	59.606	0.00	0.00
ATOM	5623	HG11	VAL	X	375	64.403	31.209	59.839	0.00	0.00
ATOM	5624	HG12	VAL	X	375	63.239	30.034	60.456	0.00	0.00
ATOM	5625	HG13	VAL	X	375	63.694	30.127	58.684	0.00	0.00
ATOM	5626	CG2	VAL	X	375	62.682	32.855	58.602	0.00	0.00
ATOM	5627	HG21	VAL	X	375	63.437	33.463	59.099	0.00	0.00
ATOM	5628	HG22	VAL	X	375	61.809	33.477	58.400	0.00	0.00
ATOM	5629	HG23	VAL	X	375	63.130	32.450	57.694	0.00	0.00
ATOM	5630	C	VAL	X	375	60.849	29.699	59.868	0.00	0.00
ATOM	5631	O	VAL	X	375	61.226	28.689	59.249	0.00	0.00
ATOM	5632	N	LEU	X	376	60.588	29.556	61.112	0.00	0.00
ATOM	5633	H	LEU	X	376	60.442	30.346	61.723	0.00	0.00
ATOM	5634	CA	LEU	X	376	60.562	28.302	61.859	0.00	0.00
ATOM	5635	HA	LEU	X	376	61.348	27.598	61.583	0.00	0.00
ATOM	5636	CB	LEU	X	376	60.503	28.681	63.371	0.00	0.00
ATOM	5637	HB2	LEU	X	376	60.286	29.716	63.635	0.00	0.00
ATOM	5638	HB3	LEU	X	376	59.759	28.120	63.936	0.00	0.00
ATOM	5639	CG	LEU	X	376	61.782	28.452	64.196	0.00	0.00

ATOM	5640	HG	LEU	X	376	61.524	28.857	65.175	0.00	0.00
ATOM	5641	CD1	LEU	X	376	62.059	26.948	64.477	0.00	0.00
ATOM	5642	HD11	LEU	X	376	61.145	26.413	64.733	0.00	0.00
ATOM	5643	HD12	LEU	X	376	62.813	26.741	65.237	0.00	0.00
ATOM	5644	HD13	LEU	X	376	62.571	26.504	63.623	0.00	0.00
ATOM	5645	CD2	LEU	X	376	62.996	29.136	63.545	0.00	0.00
ATOM	5646	HD21	LEU	X	376	63.855	28.926	64.182	0.00	0.00
ATOM	5647	HD22	LEU	X	376	63.290	28.788	62.555	0.00	0.00
ATOM	5648	HD23	LEU	X	376	62.914	30.223	63.561	0.00	0.00
ATOM	5649	C	LEU	X	376	59.288	27.506	61.525	0.00	0.00
ATOM	5650	O	LEU	X	376	59.440	26.293	61.281	0.00	0.00
ATOM	5651	N	HIE	X	377	58.117	28.000	61.329	0.00	0.00
ATOM	5652	H	HIE	X	377	57.987	28.991	61.179	0.00	0.00
ATOM	5653	CA	HIE	X	377	56.982	27.258	60.867	0.00	0.00
ATOM	5654	HA	HIE	X	377	56.954	26.337	61.449	0.00	0.00
ATOM	5655	CB	HIE	X	377	55.796	28.207	61.158	0.00	0.00
ATOM	5656	HB2	HIE	X	377	55.849	28.660	62.147	0.00	0.00
ATOM	5657	HB3	HIE	X	377	55.775	29.126	60.572	0.00	0.00
ATOM	5658	CG	HIE	X	377	54.431	27.567	60.816	0.00	0.00
ATOM	5659	ND1	HIE	X	377	53.770	26.532	61.481	0.00	0.00
ATOM	5660	CE1	HIE	X	377	52.711	26.285	60.752	0.00	0.00
ATOM	5661	HE1	HIE	X	377	51.943	25.586	61.050	0.00	0.00
ATOM	5662	NE2	HIE	X	377	52.619	27.177	59.755	0.00	0.00
ATOM	5663	HE2	HIE	X	377	51.945	27.200	59.003	0.00	0.00
ATOM	5664	CD2	HIE	X	377	53.695	27.996	59.736	0.00	0.00
ATOM	5665	HD2	HIE	X	377	53.844	28.849	59.091	0.00	0.00
ATOM	5666	C	HIE	X	377	57.114	26.863	59.364	0.00	0.00
ATOM	5667	O	HIE	X	377	56.682	25.801	58.972	0.00	0.00
ATOM	5668	N	TYR	X	378	57.887	27.613	58.582	0.00	0.00
ATOM	5669	H	TYR	X	378	58.263	28.476	58.948	0.00	0.00
ATOM	5670	CA	TYR	X	378	58.137	27.414	57.116	0.00	0.00
ATOM	5671	HA	TYR	X	378	57.372	26.689	56.839	0.00	0.00
ATOM	5672	CB	TYR	X	378	57.969	28.760	56.368	0.00	0.00
ATOM	5673	HB2	TYR	X	378	58.406	29.613	56.887	0.00	0.00
ATOM	5674	HB3	TYR	X	378	58.418	28.618	55.385	0.00	0.00
ATOM	5675	CG	TYR	X	378	56.479	29.137	56.092	0.00	0.00
ATOM	5676	CD1	TYR	X	378	55.803	28.841	54.941	0.00	0.00
ATOM	5677	HD1	TYR	X	378	56.345	28.446	54.094	0.00	0.00
ATOM	5678	CE1	TYR	X	378	54.465	29.139	54.736	0.00	0.00
ATOM	5679	HE1	TYR	X	378	54.015	28.801	53.814	0.00	0.00
ATOM	5680	CZ	TYR	X	378	53.690	29.812	55.684	0.00	0.00
ATOM	5681	OH	TYR	X	378	52.389	30.278	55.503	0.00	0.00
ATOM	5682	HH	TYR	X	378	51.999	30.225	54.627	0.00	0.00
ATOM	5683	CE2	TYR	X	378	54.350	30.058	56.958	0.00	0.00
ATOM	5684	HE2	TYR	X	378	53.815	30.500	57.786	0.00	0.00
ATOM	5685	CD2	TYR	X	378	55.701	29.724	57.186	0.00	0.00
ATOM	5686	HD2	TYR	X	378	56.114	29.939	58.160	0.00	0.00
ATOM	5687	C	TYR	X	378	59.501	26.813	56.809	0.00	0.00
ATOM	5688	O	TYR	X	378	59.873	26.634	55.655	0.00	0.00
ATOM	5689	N	THR	X	379	60.225	26.333	57.812	0.00	0.00
ATOM	5690	H	THR	X	379	59.683	26.363	58.664	0.00	0.00
ATOM	5691	CA	THR	X	379	61.427	25.422	57.632	0.00	0.00
ATOM	5692	HA	THR	X	379	62.044	25.882	56.859	0.00	0.00
ATOM	5693	CB	THR	X	379	62.366	25.559	58.824	0.00	0.00
ATOM	5694	HB	THR	X	379	61.712	25.398	59.681	0.00	0.00
ATOM	5695	CG2	THR	X	379	63.513	24.547	58.781	0.00	0.00
ATOM	5696	HG21	THR	X	379	63.853	24.458	57.749	0.00	0.00
ATOM	5697	HG22	THR	X	379	63.118	23.590	59.122	0.00	0.00
ATOM	5698	HG23	THR	X	379	64.338	24.803	59.446	0.00	0.00
ATOM	5699	OG1	THR	X	379	62.993	26.821	58.801	0.00	0.00
ATOM	5700	HG1	THR	X	379	62.357	27.498	59.045	0.00	0.00
ATOM	5701	C	THR	X	379	61.027	23.973	57.250	0.00	0.00
ATOM	5702	O	THR	X	379	60.089	23.375	57.746	0.00	0.00
ATOM	5703	N	ASP	X	380	61.856	23.353	56.435	0.00	0.00
ATOM	5704	H	ASP	X	380	62.659	23.850	56.078	0.00	0.00
ATOM	5705	CA	ASP	X	380	61.763	21.933	56.097	0.00	0.00
ATOM	5706	HA	ASP	X	380	60.728	21.593	56.063	0.00	0.00

ATOM	5707	CB	ASP	X	380	62.488	21.790	54.758	0.00	0.00
ATOM	5708	HB2	ASP	X	380	62.122	22.549	54.067	0.00	0.00
ATOM	5709	HB3	ASP	X	380	63.564	21.958	54.817	0.00	0.00
ATOM	5710	CG	ASP	X	380	62.328	20.419	54.167	0.00	0.00
ATOM	5711	OD1	ASP	X	380	63.279	19.633	54.154	0.00	0.00
ATOM	5712	OD2	ASP	X	380	61.237	20.080	53.600	0.00	0.00
ATOM	5713	C	ASP	X	380	62.463	21.077	57.227	0.00	0.00
ATOM	5714	O	ASP	X	380	63.396	21.451	57.850	0.00	0.00
ATOM	5715	N	TRP	X	381	61.853	19.914	57.486	0.00	0.00
ATOM	5716	H	TRP	X	381	61.071	19.611	56.923	0.00	0.00
ATOM	5717	CA	TRP	X	381	62.142	19.010	58.687	0.00	0.00
ATOM	5718	HA	TRP	X	381	62.118	19.562	59.626	0.00	0.00
ATOM	5719	CB	TRP	X	381	60.922	18.046	58.688	0.00	0.00
ATOM	5720	HB2	TRP	X	381	61.046	17.404	57.815	0.00	0.00
ATOM	5721	HB3	TRP	X	381	61.103	17.427	59.567	0.00	0.00
ATOM	5722	CG	TRP	X	381	59.641	18.788	58.758	0.00	0.00
ATOM	5723	CD1	TRP	X	381	58.844	19.005	57.681	0.00	0.00
ATOM	5724	HD1	TRP	X	381	59.007	18.492	56.744	0.00	0.00
ATOM	5725	NE1	TRP	X	381	57.741	19.771	58.106	0.00	0.00
ATOM	5726	HE1	TRP	X	381	56.857	19.908	57.636	0.00	0.00
ATOM	5727	CE2	TRP	X	381	57.866	20.120	59.434	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	57.141	20.898	60.387	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	56.312	21.464	59.988	0.00	0.00
ATOM	5730	CH2	TRP	X	381	57.610	20.964	61.745	0.00	0.00
ATOM	5731	HH2	TRP	X	381	57.087	21.624	62.421	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	58.868	20.500	62.064	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	59.258	20.708	63.049	0.00	0.00
ATOM	5734	CE3	TRP	X	381	59.583	19.839	61.141	0.00	0.00
ATOM	5735	HE3	TRP	X	381	60.509	19.376	61.447	0.00	0.00
ATOM	5736	CD2	TRP	X	381	59.112	19.627	59.784	0.00	0.00
ATOM	5737	C	TRP	X	381	63.438	18.181	58.568	0.00	0.00
ATOM	5738	O	TRP	X	381	63.874	17.475	59.484	0.00	0.00
ATOM	5739	N	LEU	X	382	64.116	18.236	57.390	0.00	0.00
ATOM	5740	H	LEU	X	382	63.707	18.863	56.713	0.00	0.00
ATOM	5741	CA	LEU	X	382	65.104	17.221	56.936	0.00	0.00
ATOM	5742	HA	LEU	X	382	65.629	16.801	57.794	0.00	0.00
ATOM	5743	CB	LEU	X	382	64.330	16.036	56.331	0.00	0.00
ATOM	5744	HB2	LEU	X	382	63.472	15.824	56.969	0.00	0.00
ATOM	5745	HB3	LEU	X	382	64.017	16.303	55.322	0.00	0.00
ATOM	5746	CG	LEU	X	382	65.231	14.750	56.233	0.00	0.00
ATOM	5747	HG	LEU	X	382	66.187	14.948	55.747	0.00	0.00
ATOM	5748	CD1	LEU	X	382	65.470	14.152	57.679	0.00	0.00
ATOM	5749	HD11	LEU	X	382	65.839	14.902	58.378	0.00	0.00
ATOM	5750	HD12	LEU	X	382	66.187	13.330	57.668	0.00	0.00
ATOM	5751	HD13	LEU	X	382	64.590	13.669	58.104	0.00	0.00
ATOM	5752	CD2	LEU	X	382	64.636	13.697	55.223	0.00	0.00
ATOM	5753	HD21	LEU	X	382	64.624	14.119	54.218	0.00	0.00
ATOM	5754	HD22	LEU	X	382	65.305	12.836	55.223	0.00	0.00
ATOM	5755	HD23	LEU	X	382	63.626	13.376	55.476	0.00	0.00
ATOM	5756	C	LEU	X	382	66.129	17.984	55.992	0.00	0.00
ATOM	5757	O	LEU	X	382	67.334	17.499	55.960	0.00	0.00
ATOM	5758	N	HIE	X	383	65.817	19.091	55.331	0.00	0.00
ATOM	5759	H	HIE	X	383	64.880	19.462	55.389	0.00	0.00
ATOM	5760	CA	HIE	X	383	66.838	19.828	54.642	0.00	0.00
ATOM	5761	HA	HIE	X	383	67.826	19.555	55.014	0.00	0.00
ATOM	5762	CB	HIE	X	383	66.842	19.477	53.157	0.00	0.00
ATOM	5763	HB2	HIE	X	383	65.901	19.296	52.637	0.00	0.00
ATOM	5764	HB3	HIE	X	383	67.422	20.255	52.661	0.00	0.00
ATOM	5765	CG	HIE	X	383	67.667	18.195	52.945	0.00	0.00
ATOM	5766	ND1	HIE	X	383	69.045	18.122	53.213	0.00	0.00
ATOM	5767	CE1	HIE	X	383	69.416	16.948	52.736	0.00	0.00
ATOM	5768	HE1	HIE	X	383	70.426	16.596	52.885	0.00	0.00
ATOM	5769	NE2	HIE	X	383	68.427	16.202	52.329	0.00	0.00
ATOM	5770	HE2	HIE	X	383	68.450	15.229	52.059	0.00	0.00
ATOM	5771	CD2	HIE	X	383	67.299	17.013	52.407	0.00	0.00
ATOM	5772	HD2	HIE	X	383	66.304	16.822	52.033	0.00	0.00
ATOM	5773	C	HIE	X	383	66.708	21.378	54.810	0.00	0.00

ATOM	5774	O	HIE	X	383	66.447	22.181	53.939	0.00	0.00
ATOM	5775	N	PRO	X	384	67.001	21.840	56.031	0.00	0.00
ATOM	5776	CD	PRO	X	384	67.477	21.158	57.238	0.00	0.00
ATOM	5777	HD2	PRO	X	384	68.341	20.531	57.018	0.00	0.00
ATOM	5778	HD3	PRO	X	384	66.646	20.620	57.694	0.00	0.00
ATOM	5779	CG	PRO	X	384	67.870	22.209	58.278	0.00	0.00
ATOM	5780	HG2	PRO	X	384	68.909	22.495	58.117	0.00	0.00
ATOM	5781	HG3	PRO	X	384	67.717	21.840	59.292	0.00	0.00
ATOM	5782	CB	PRO	X	384	67.022	23.349	57.869	0.00	0.00
ATOM	5783	HB2	PRO	X	384	67.571	24.233	58.193	0.00	0.00
ATOM	5784	HB3	PRO	X	384	66.045	23.207	58.330	0.00	0.00
ATOM	5785	CA	PRO	X	384	66.826	23.248	56.357	0.00	0.00
ATOM	5786	HA	PRO	X	384	65.805	23.552	56.128	0.00	0.00
ATOM	5787	C	PRO	X	384	67.728	24.213	55.526	0.00	0.00
ATOM	5788	O	PRO	X	384	67.348	25.387	55.328	0.00	0.00
ATOM	5789	N	GLU	X	385	68.814	23.727	54.896	0.00	0.00
ATOM	5790	H	GLU	X	385	69.121	22.824	55.230	0.00	0.00
ATOM	5791	CA	GLU	X	385	69.742	24.550	54.072	0.00	0.00
ATOM	5792	HA	GLU	X	385	69.735	25.587	54.407	0.00	0.00
ATOM	5793	CB	GLU	X	385	71.146	24.013	54.199	0.00	0.00
ATOM	5794	HB2	GLU	X	385	71.167	23.005	53.785	0.00	0.00
ATOM	5795	HB3	GLU	X	385	71.735	24.737	53.635	0.00	0.00
ATOM	5796	CG	GLU	X	385	71.535	23.808	55.681	0.00	0.00
ATOM	5797	HG2	GLU	X	385	71.731	24.791	56.109	0.00	0.00
ATOM	5798	HG3	GLU	X	385	70.709	23.318	56.198	0.00	0.00
ATOM	5799	CD	GLU	X	385	72.798	22.992	55.827	0.00	0.00
ATOM	5800	OE1	GLU	X	385	72.801	21.836	55.508	0.00	0.00
ATOM	5801	OE2	GLU	X	385	73.667	23.267	56.733	0.00	0.00
ATOM	5802	C	GLU	X	385	69.352	24.527	52.621	0.00	0.00
ATOM	5803	O	GLU	X	385	69.821	25.404	51.853	0.00	0.00
ATOM	5804	N	ASP	X	386	68.494	23.605	52.105	0.00	0.00
ATOM	5805	H	ASP	X	386	68.043	22.991	52.768	0.00	0.00
ATOM	5806	CA	ASP	X	386	68.345	23.474	50.654	0.00	0.00
ATOM	5807	HA	ASP	X	386	69.336	23.235	50.268	0.00	0.00
ATOM	5808	CB	ASP	X	386	67.442	22.281	50.358	0.00	0.00
ATOM	5809	HB2	ASP	X	386	67.908	21.413	50.826	0.00	0.00
ATOM	5810	HB3	ASP	X	386	66.501	22.482	50.869	0.00	0.00
ATOM	5811	CG	ASP	X	386	67.258	22.182	48.789	0.00	0.00
ATOM	5812	OD1	ASP	X	386	66.433	22.894	48.246	0.00	0.00
ATOM	5813	OD2	ASP	X	386	67.712	21.157	48.185	0.00	0.00
ATOM	5814	C	ASP	X	386	67.711	24.733	50.012	0.00	0.00
ATOM	5815	O	ASP	X	386	66.729	25.187	50.559	0.00	0.00
ATOM	5816	N	PRO	X	387	68.290	25.234	48.922	0.00	0.00
ATOM	5817	CD	PRO	X	387	69.436	24.636	48.249	0.00	0.00
ATOM	5818	HD2	PRO	X	387	69.047	23.652	47.989	0.00	0.00
ATOM	5819	HD3	PRO	X	387	70.279	24.527	48.931	0.00	0.00
ATOM	5820	CG	PRO	X	387	69.708	25.504	47.033	0.00	0.00
ATOM	5821	HG2	PRO	X	387	69.112	25.131	46.201	0.00	0.00
ATOM	5822	HG3	PRO	X	387	70.760	25.590	46.759	0.00	0.00
ATOM	5823	CB	PRO	X	387	69.138	26.858	47.421	0.00	0.00
ATOM	5824	HB2	PRO	X	387	68.743	27.464	46.606	0.00	0.00
ATOM	5825	HB3	PRO	X	387	69.892	27.399	47.993	0.00	0.00
ATOM	5826	CA	PRO	X	387	67.970	26.568	48.360	0.00	0.00
ATOM	5827	HA	PRO	X	387	67.978	27.270	49.193	0.00	0.00
ATOM	5828	C	PRO	X	387	66.587	26.542	47.682	0.00	0.00
ATOM	5829	O	PRO	X	387	65.953	27.545	47.622	0.00	0.00
ATOM	5830	N	ALA	X	388	66.228	25.368	47.145	0.00	0.00
ATOM	5831	H	ALA	X	388	66.750	24.508	47.059	0.00	0.00
ATOM	5832	CA	ALA	X	388	64.896	25.261	46.505	0.00	0.00
ATOM	5833	HA	ALA	X	388	64.554	26.203	46.078	0.00	0.00
ATOM	5834	CB	ALA	X	388	64.821	24.128	45.507	0.00	0.00
ATOM	5835	HB1	ALA	X	388	65.129	23.224	46.033	0.00	0.00
ATOM	5836	HB2	ALA	X	388	65.466	24.306	44.646	0.00	0.00
ATOM	5837	HB3	ALA	X	388	63.802	23.980	45.150	0.00	0.00
ATOM	5838	C	ALA	X	388	63.785	25.075	47.573	0.00	0.00
ATOM	5839	O	ALA	X	388	62.727	25.690	47.413	0.00	0.00
ATOM	5840	N	ARG	X	389	64.006	24.421	48.718	0.00	0.00

ATOM	5841	H	ARG	X	389	64.940	24.078	48.893	0.00	0.00
ATOM	5842	CA	ARG	X	389	63.031	24.346	49.824	0.00	0.00
ATOM	5843	HA	ARG	X	389	62.118	23.966	49.367	0.00	0.00
ATOM	5844	CB	ARG	X	389	63.473	23.311	50.888	0.00	0.00
ATOM	5845	HB2	ARG	X	389	64.393	23.759	51.263	0.00	0.00
ATOM	5846	HB3	ARG	X	389	62.662	23.238	51.613	0.00	0.00
ATOM	5847	CG	ARG	X	389	63.633	21.970	50.175	0.00	0.00
ATOM	5848	HG2	ARG	X	389	62.772	21.880	49.513	0.00	0.00
ATOM	5849	HG3	ARG	X	389	64.490	22.134	49.521	0.00	0.00
ATOM	5850	CD	ARG	X	389	63.724	20.673	51.008	0.00	0.00
ATOM	5851	HD2	ARG	X	389	64.599	20.834	51.638	0.00	0.00
ATOM	5852	HD3	ARG	X	389	62.844	20.623	51.649	0.00	0.00
ATOM	5853	NE	ARG	X	389	63.898	19.443	50.187	0.00	0.00
ATOM	5854	HE	ARG	X	389	64.302	19.493	49.263	0.00	0.00
ATOM	5855	CZ	ARG	X	389	63.804	18.169	50.721	0.00	0.00
ATOM	5856	NH1	ARG	X	389	63.361	17.934	51.933	0.00	0.00
ATOM	5857	HH11	ARG	X	389	63.185	18.681	52.589	0.00	0.00
ATOM	5858	HH12	ARG	X	389	63.444	16.982	52.260	0.00	0.00
ATOM	5859	NH2	ARG	X	389	64.092	17.118	49.992	0.00	0.00
ATOM	5860	HH21	ARG	X	389	64.630	17.242	49.147	0.00	0.00
ATOM	5861	HH22	ARG	X	389	63.956	16.203	50.397	0.00	0.00
ATOM	5862	C	ARG	X	389	62.773	25.747	50.450	0.00	0.00
ATOM	5863	O	ARG	X	389	61.623	26.129	50.553	0.00	0.00
ATOM	5864	N	LEU	X	390	63.858	26.538	50.611	0.00	0.00
ATOM	5865	H	LEU	X	390	64.775	26.145	50.454	0.00	0.00
ATOM	5866	CA	LEU	X	390	63.714	27.985	50.870	0.00	0.00
ATOM	5867	HA	LEU	X	390	62.985	27.940	51.678	0.00	0.00
ATOM	5868	CB	LEU	X	390	65.139	28.581	51.231	0.00	0.00
ATOM	5869	HB2	LEU	X	390	65.716	28.529	50.308	0.00	0.00
ATOM	5870	HB3	LEU	X	390	64.984	29.646	51.405	0.00	0.00
ATOM	5871	CG	LEU	X	390	65.885	27.942	52.396	0.00	0.00
ATOM	5872	HG	LEU	X	390	65.828	26.860	52.278	0.00	0.00
ATOM	5873	CD1	LEU	X	390	67.346	28.192	52.324	0.00	0.00
ATOM	5874	HD11	LEU	X	390	67.913	27.652	53.082	0.00	0.00
ATOM	5875	HD12	LEU	X	390	67.588	29.249	52.432	0.00	0.00
ATOM	5876	HD13	LEU	X	390	67.799	27.792	51.416	0.00	0.00
ATOM	5877	CD2	LEU	X	390	65.369	28.224	53.796	0.00	0.00
ATOM	5878	HD21	LEU	X	390	65.802	29.114	54.253	0.00	0.00
ATOM	5879	HD22	LEU	X	390	64.281	28.247	53.856	0.00	0.00
ATOM	5880	HD23	LEU	X	390	65.698	27.406	54.437	0.00	0.00
ATOM	5881	C	LEU	X	390	63.031	28.785	49.739	0.00	0.00
ATOM	5882	O	LEU	X	390	62.199	29.575	50.100	0.00	0.00
ATOM	5883	N	ARG	X	391	63.359	28.625	48.449	0.00	0.00
ATOM	5884	H	ARG	X	391	64.280	28.278	48.224	0.00	0.00
ATOM	5885	CA	ARG	X	391	62.851	29.539	47.412	0.00	0.00
ATOM	5886	HA	ARG	X	391	63.019	30.564	47.740	0.00	0.00
ATOM	5887	CB	ARG	X	391	63.568	29.321	46.085	0.00	0.00
ATOM	5888	HB2	ARG	X	391	64.642	29.139	46.128	0.00	0.00
ATOM	5889	HB3	ARG	X	391	63.169	28.329	45.872	0.00	0.00
ATOM	5890	CG	ARG	X	391	63.226	30.489	45.156	0.00	0.00
ATOM	5891	HG2	ARG	X	391	62.350	31.051	45.479	0.00	0.00
ATOM	5892	HG3	ARG	X	391	63.983	31.269	45.235	0.00	0.00
ATOM	5893	CD	ARG	X	391	63.183	30.087	43.685	0.00	0.00
ATOM	5894	HD2	ARG	X	391	62.198	29.834	43.292	0.00	0.00
ATOM	5895	HD3	ARG	X	391	63.432	31.005	43.152	0.00	0.00
ATOM	5896	NE	ARG	X	391	64.253	29.186	43.279	0.00	0.00
ATOM	5897	HE	ARG	X	391	65.070	29.695	42.971	0.00	0.00
ATOM	5898	CZ	ARG	X	391	64.307	27.875	43.153	0.00	0.00
ATOM	5899	NH1	ARG	X	391	63.466	27.015	43.624	0.00	0.00
ATOM	5900	HH11	ARG	X	391	62.653	27.414	44.072	0.00	0.00
ATOM	5901	HH12	ARG	X	391	63.391	26.110	43.181	0.00	0.00
ATOM	5902	NH2	ARG	X	391	65.404	27.400	42.593	0.00	0.00
ATOM	5903	HH21	ARG	X	391	66.029	28.076	42.177	0.00	0.00
ATOM	5904	HH22	ARG	X	391	65.420	26.462	42.217	0.00	0.00
ATOM	5905	C	ARG	X	391	61.317	29.314	47.359	0.00	0.00
ATOM	5906	O	ARG	X	391	60.547	30.328	47.251	0.00	0.00
ATOM	5907	N	GLU	X	392	60.849	28.077	47.469	0.00	0.00

ATOM	5908	H	GLU	X	392	61.521	27.347	47.282	0.00	0.00
ATOM	5909	CA	GLU	X	392	59.377	27.851	47.343	0.00	0.00
ATOM	5910	HA	GLU	X	392	58.997	28.316	46.434	0.00	0.00
ATOM	5911	CB	GLU	X	392	59.113	26.341	47.086	0.00	0.00
ATOM	5912	HB2	GLU	X	392	58.028	26.384	46.990	0.00	0.00
ATOM	5913	HB3	GLU	X	392	59.737	26.033	46.246	0.00	0.00
ATOM	5914	CG	GLU	X	392	59.239	25.383	48.346	0.00	0.00
ATOM	5915	HG2	GLU	X	392	60.246	25.258	48.744	0.00	0.00
ATOM	5916	HG3	GLU	X	392	58.564	25.702	49.140	0.00	0.00
ATOM	5917	CD	GLU	X	392	58.841	23.949	48.076	0.00	0.00
ATOM	5918	OE1	GLU	X	392	59.414	23.236	47.219	0.00	0.00
ATOM	5919	OE2	GLU	X	392	57.919	23.562	48.824	0.00	0.00
ATOM	5920	C	GLU	X	392	58.612	28.386	48.558	0.00	0.00
ATOM	5921	O	GLU	X	392	57.606	29.019	48.467	0.00	0.00
ATOM	5922	N	ALA	X	393	59.116	28.156	49.795	0.00	0.00
ATOM	5923	H	ALA	X	393	59.997	27.667	49.859	0.00	0.00
ATOM	5924	CA	ALA	X	393	58.489	28.585	51.013	0.00	0.00
ATOM	5925	HA	ALA	X	393	57.461	28.231	51.098	0.00	0.00
ATOM	5926	CB	ALA	X	393	59.281	27.990	52.112	0.00	0.00
ATOM	5927	HB1	ALA	X	393	58.834	28.256	53.071	0.00	0.00
ATOM	5928	HB2	ALA	X	393	60.303	28.365	52.164	0.00	0.00
ATOM	5929	HB3	ALA	X	393	59.193	26.911	51.985	0.00	0.00
ATOM	5930	C	ALA	X	393	58.503	30.060	51.129	0.00	0.00
ATOM	5931	O	ALA	X	393	57.565	30.593	51.643	0.00	0.00
ATOM	5932	N	LEU	X	394	59.332	30.759	50.377	0.00	0.00
ATOM	5933	H	LEU	X	394	60.079	30.232	49.946	0.00	0.00
ATOM	5934	CA	LEU	X	394	59.187	32.202	50.053	0.00	0.00
ATOM	5935	HA	LEU	X	394	59.106	32.606	51.062	0.00	0.00
ATOM	5936	CB	LEU	X	394	60.434	32.768	49.402	0.00	0.00
ATOM	5937	HB2	LEU	X	394	61.335	32.387	49.883	0.00	0.00
ATOM	5938	HB3	LEU	X	394	60.488	32.439	48.364	0.00	0.00
ATOM	5939	CG	LEU	X	394	60.606	34.326	49.482	0.00	0.00
ATOM	5940	HG	LEU	X	394	59.825	34.761	48.859	0.00	0.00
ATOM	5941	CD1	LEU	X	394	60.341	34.870	50.887	0.00	0.00
ATOM	5942	HD11	LEU	X	394	60.258	35.956	50.846	0.00	0.00
ATOM	5943	HD12	LEU	X	394	61.192	34.595	51.510	0.00	0.00
ATOM	5944	HD13	LEU	X	394	59.425	34.473	51.325	0.00	0.00
ATOM	5945	CD2	LEU	X	394	61.882	34.883	49.084	0.00	0.00
ATOM	5946	HD21	LEU	X	394	61.824	35.964	49.212	0.00	0.00
ATOM	5947	HD22	LEU	X	394	62.721	34.538	49.687	0.00	0.00
ATOM	5948	HD23	LEU	X	394	62.065	34.578	48.054	0.00	0.00
ATOM	5949	C	LEU	X	394	57.887	32.456	49.268	0.00	0.00
ATOM	5950	O	LEU	X	394	57.022	33.185	49.747	0.00	0.00
ATOM	5951	N	SER	X	395	57.750	31.894	48.068	0.00	0.00
ATOM	5952	H	SER	X	395	58.497	31.323	47.699	0.00	0.00
ATOM	5953	CA	SER	X	395	56.608	31.964	47.224	0.00	0.00
ATOM	5954	HA	SER	X	395	56.433	32.999	46.928	0.00	0.00
ATOM	5955	CB	SER	X	395	56.761	31.103	45.943	0.00	0.00
ATOM	5956	HB2	SER	X	395	56.858	30.068	46.270	0.00	0.00
ATOM	5957	HB3	SER	X	395	55.859	31.175	45.335	0.00	0.00
ATOM	5958	OG	SER	X	395	57.925	31.339	45.186	0.00	0.00
ATOM	5959	HG	SER	X	395	58.058	30.575	44.620	0.00	0.00
ATOM	5960	C	SER	X	395	55.353	31.584	47.952	0.00	0.00
ATOM	5961	O	SER	X	395	54.299	32.112	47.811	0.00	0.00
ATOM	5962	N	ASP	X	396	55.357	30.600	48.899	0.00	0.00
ATOM	5963	H	ASP	X	396	56.205	30.064	49.016	0.00	0.00
ATOM	5964	CA	ASP	X	396	54.248	30.147	49.754	0.00	0.00
ATOM	5965	HA	ASP	X	396	53.409	29.905	49.102	0.00	0.00
ATOM	5966	CB	ASP	X	396	54.563	28.953	50.656	0.00	0.00
ATOM	5967	HB2	ASP	X	396	55.558	29.104	51.074	0.00	0.00
ATOM	5968	HB3	ASP	X	396	53.920	28.864	51.532	0.00	0.00
ATOM	5969	CG	ASP	X	396	54.518	27.592	49.958	0.00	0.00
ATOM	5970	OD1	ASP	X	396	55.614	26.965	49.828	0.00	0.00
ATOM	5971	OD2	ASP	X	396	53.470	27.150	49.572	0.00	0.00
ATOM	5972	C	ASP	X	396	53.837	31.361	50.739	0.00	0.00
ATOM	5973	O	ASP	X	396	52.678	31.770	50.749	0.00	0.00
ATOM	5974	N	VAL	X	397	54.823	31.831	51.493	0.00	0.00

ATOM	5975	H	VAL	X	397	55.756	31.456	51.398	0.00	0.00
ATOM	5976	CA	VAL	X	397	54.547	32.902	52.523	0.00	0.00
ATOM	5977	HA	VAL	X	397	53.850	32.569	53.293	0.00	0.00
ATOM	5978	CB	VAL	X	397	55.858	33.338	53.308	0.00	0.00
ATOM	5979	HB	VAL	X	397	56.651	33.511	52.580	0.00	0.00
ATOM	5980	CG1	VAL	X	397	55.710	34.549	54.196	0.00	0.00
ATOM	5981	HG11	VAL	X	397	55.226	35.396	53.709	0.00	0.00
ATOM	5982	HG12	VAL	X	397	55.166	34.346	55.118	0.00	0.00
ATOM	5983	HG13	VAL	X	397	56.736	34.798	54.464	0.00	0.00
ATOM	5984	CG2	VAL	X	397	56.310	32.202	54.168	0.00	0.00
ATOM	5985	HG21	VAL	X	397	55.534	32.190	54.933	0.00	0.00
ATOM	5986	HG22	VAL	X	397	57.208	32.371	54.762	0.00	0.00
ATOM	5987	HG23	VAL	X	397	56.445	31.275	53.609	0.00	0.00
ATOM	5988	C	VAL	X	397	54.054	34.150	51.882	0.00	0.00
ATOM	5989	O	VAL	X	397	53.074	34.776	52.384	0.00	0.00
ATOM	5990	N	VAL	X	398	54.683	34.529	50.774	0.00	0.00
ATOM	5991	H	VAL	X	398	55.451	33.979	50.415	0.00	0.00
ATOM	5992	CA	VAL	X	398	54.331	35.702	49.995	0.00	0.00
ATOM	5993	HA	VAL	X	398	54.179	36.503	50.718	0.00	0.00
ATOM	5994	CB	VAL	X	398	55.377	36.064	48.917	0.00	0.00
ATOM	5995	HB	VAL	X	398	55.549	35.103	48.433	0.00	0.00
ATOM	5996	CG1	VAL	X	398	55.013	37.196	47.949	0.00	0.00
ATOM	5997	HG11	VAL	X	398	54.226	36.937	47.240	0.00	0.00
ATOM	5998	HG12	VAL	X	398	54.641	38.029	48.546	0.00	0.00
ATOM	5999	HG13	VAL	X	398	55.864	37.577	47.384	0.00	0.00
ATOM	6000	CG2	VAL	X	398	56.618	36.481	49.758	0.00	0.00
ATOM	6001	HG21	VAL	X	398	57.372	37.023	49.188	0.00	0.00
ATOM	6002	HG22	VAL	X	398	57.128	35.530	49.914	0.00	0.00
ATOM	6003	HG23	VAL	X	398	56.324	36.989	50.677	0.00	0.00
ATOM	6004	C	VAL	X	398	52.977	35.526	49.290	0.00	0.00
ATOM	6005	O	VAL	X	398	52.343	36.513	49.081	0.00	0.00
ATOM	6006	N	GLY	X	399	52.428	34.309	49.113	0.00	0.00
ATOM	6007	H	GLY	X	399	52.866	33.426	49.332	0.00	0.00
ATOM	6008	CA	GLY	X	399	51.085	34.262	48.666	0.00	0.00
ATOM	6009	HA2	GLY	X	399	50.790	35.080	48.009	0.00	0.00
ATOM	6010	HA3	GLY	X	399	50.882	33.398	48.033	0.00	0.00
ATOM	6011	C	GLY	X	399	50.108	34.171	49.790	0.00	0.00
ATOM	6012	O	GLY	X	399	49.035	34.803	49.782	0.00	0.00
ATOM	6013	N	ASP	X	400	50.529	33.618	50.968	0.00	0.00
ATOM	6014	H	ASP	X	400	51.447	33.196	50.971	0.00	0.00
ATOM	6015	CA	ASP	X	400	49.633	33.135	52.006	0.00	0.00
ATOM	6016	HA	ASP	X	400	48.893	32.573	51.435	0.00	0.00
ATOM	6017	CB	ASP	X	400	50.391	32.125	52.933	0.00	0.00
ATOM	6018	HB2	ASP	X	400	51.300	32.611	53.288	0.00	0.00
ATOM	6019	HB3	ASP	X	400	49.688	32.071	53.764	0.00	0.00
ATOM	6020	CG	ASP	X	400	50.425	30.758	52.339	0.00	0.00
ATOM	6021	OD1	ASP	X	400	50.074	30.531	51.146	0.00	0.00
ATOM	6022	OD2	ASP	X	400	50.825	29.795	53.024	0.00	0.00
ATOM	6023	C	ASP	X	400	48.847	34.170	52.680	0.00	0.00
ATOM	6024	O	ASP	X	400	47.662	34.340	52.400	0.00	0.00
ATOM	6025	N	HIE	X	401	49.487	35.065	53.463	0.00	0.00
ATOM	6026	H	HIE	X	401	50.461	34.947	53.703	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.849	36.254	54.031	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.999	35.761	54.501	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.600	36.934	55.162	0.00	0.00
ATOM	6030	HB2	HIE	X	401	48.883	37.561	55.693	0.00	0.00
ATOM	6031	HB3	HIE	X	401	50.019	36.185	55.834	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.802	37.747	54.683	0.00	0.00
ATOM	6033	ND1	HIE	X	401	50.920	39.125	54.328	0.00	0.00
ATOM	6034	CE1	HIE	X	401	52.160	39.322	53.883	0.00	0.00
ATOM	6035	HE1	HIE	X	401	52.622	40.263	53.624	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.867	38.151	54.019	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.821	38.024	53.711	0.00	0.00
ATOM	6038	CD2	HIE	X	401	52.027	37.171	54.519	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.266	36.133	54.699	0.00	0.00
ATOM	6040	C	HIE	X	401	48.248	37.311	53.006	0.00	0.00
ATOM	6041	O	HIE	X	401	47.414	38.199	53.390	0.00	0.00

ATOM	6042	N	ASN	X	402	48.737	37.303	51.737	0.00	0.00
ATOM	6043	H	ASN	X	402	49.482	36.642	51.569	0.00	0.00
ATOM	6044	CA	ASN	X	402	48.602	38.443	50.782	0.00	0.00
ATOM	6045	HA	ASN	X	402	48.424	39.380	51.309	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.868	38.566	49.863	0.00	0.00
ATOM	6047	HB2	ASN	X	402	50.257	37.571	49.646	0.00	0.00
ATOM	6048	HB3	ASN	X	402	49.516	39.043	48.948	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.933	39.505	50.403	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.779	40.650	50.746	0.00	0.00
ATOM	6051	ND2	ASN	X	402	52.091	38.886	50.621	0.00	0.00
ATOM	6052	HD21	ASN	X	402	52.782	39.408	51.142	0.00	0.00
ATOM	6053	HD22	ASN	X	402	52.275	37.956	50.272	0.00	0.00
ATOM	6054	C	ASN	X	402	47.451	38.240	49.859	0.00	0.00
ATOM	6055	O	ASN	X	402	46.778	39.173	49.634	0.00	0.00
ATOM	6056	N	VAL	X	403	47.249	36.979	49.368	0.00	0.00
ATOM	6057	H	VAL	X	403	47.896	36.305	49.752	0.00	0.00
ATOM	6058	CA	VAL	X	403	46.144	36.571	48.502	0.00	0.00
ATOM	6059	HA	VAL	X	403	45.431	37.395	48.477	0.00	0.00
ATOM	6060	CB	VAL	X	403	46.693	36.169	47.138	0.00	0.00
ATOM	6061	HB	VAL	X	403	47.197	35.209	47.243	0.00	0.00
ATOM	6062	CG1	VAL	X	403	45.563	35.924	46.149	0.00	0.00
ATOM	6063	HG11	VAL	X	403	44.917	35.115	46.490	0.00	0.00
ATOM	6064	HG12	VAL	X	403	44.854	36.752	46.145	0.00	0.00
ATOM	6065	HG13	VAL	X	403	46.052	35.626	45.222	0.00	0.00
ATOM	6066	CG2	VAL	X	403	47.546	37.282	46.495	0.00	0.00
ATOM	6067	HG21	VAL	X	403	47.761	36.961	45.476	0.00	0.00
ATOM	6068	HG22	VAL	X	403	48.480	37.267	47.056	0.00	0.00
ATOM	6069	HG23	VAL	X	403	47.132	38.282	46.630	0.00	0.00
ATOM	6070	C	VAL	X	403	45.486	35.306	49.197	0.00	0.00
ATOM	6071	O	VAL	X	403	44.255	35.381	49.394	0.00	0.00
ATOM	6072	N	VAL	X	404	46.186	34.253	49.528	0.00	0.00
ATOM	6073	H	VAL	X	404	47.191	34.213	49.438	0.00	0.00
ATOM	6074	CA	VAL	X	404	45.514	32.898	49.625	0.00	0.00
ATOM	6075	HA	VAL	X	404	44.859	32.942	48.754	0.00	0.00
ATOM	6076	CB	VAL	X	404	46.480	31.707	49.290	0.00	0.00
ATOM	6077	HB	VAL	X	404	46.980	31.465	50.228	0.00	0.00
ATOM	6078	CG1	VAL	X	404	45.642	30.498	48.852	0.00	0.00
ATOM	6079	HG11	VAL	X	404	46.314	29.727	48.476	0.00	0.00
ATOM	6080	HG12	VAL	X	404	44.892	30.184	49.578	0.00	0.00
ATOM	6081	HG13	VAL	X	404	45.037	30.735	47.977	0.00	0.00
ATOM	6082	CG2	VAL	X	404	47.591	32.065	48.230	0.00	0.00
ATOM	6083	HG21	VAL	X	404	47.256	32.511	47.294	0.00	0.00
ATOM	6084	HG22	VAL	X	404	48.265	31.219	48.097	0.00	0.00
ATOM	6085	HG23	VAL	X	404	48.306	32.756	48.676	0.00	0.00
ATOM	6086	C	VAL	X	404	44.678	32.761	50.877	0.00	0.00
ATOM	6087	O	VAL	X	404	43.542	32.370	50.836	0.00	0.00
ATOM	6088	N	CYX	X	405	45.161	33.187	52.019	0.00	0.00
ATOM	6089	H	CYX	X	405	46.161	33.303	52.110	0.00	0.00
ATOM	6090	CA	CYX	X	405	44.328	33.356	53.216	0.00	0.00
ATOM	6091	HA	CYX	X	405	43.784	32.416	53.312	0.00	0.00
ATOM	6092	CB	CYX	X	405	45.290	33.464	54.495	0.00	0.00
ATOM	6093	HB2	CYX	X	405	45.982	34.291	54.336	0.00	0.00
ATOM	6094	HB3	CYX	X	405	44.759	33.716	55.412	0.00	0.00
ATOM	6095	SG	CYX	X	405	46.225	31.873	54.679	0.00	0.00
ATOM	6096	C	CYX	X	405	43.175	34.366	53.171	0.00	0.00
ATOM	6097	O	CYX	X	405	42.036	33.801	53.343	0.00	0.00
ATOM	6098	N	PRO	X	406	43.423	35.626	52.694	0.00	0.00
ATOM	6099	CD	PRO	X	406	44.765	36.211	52.570	0.00	0.00
ATOM	6100	HD2	PRO	X	406	45.301	35.813	51.708	0.00	0.00
ATOM	6101	HD3	PRO	X	406	45.271	36.021	53.516	0.00	0.00
ATOM	6102	CG	PRO	X	406	44.474	37.709	52.408	0.00	0.00
ATOM	6103	HG2	PRO	X	406	45.251	38.140	51.776	0.00	0.00
ATOM	6104	HG3	PRO	X	406	44.451	38.073	53.435	0.00	0.00
ATOM	6105	CB	PRO	X	406	43.095	37.787	51.686	0.00	0.00
ATOM	6106	HB2	PRO	X	406	43.298	37.657	50.623	0.00	0.00
ATOM	6107	HB3	PRO	X	406	42.544	38.702	51.906	0.00	0.00
ATOM	6108	CA	PRO	X	406	42.373	36.565	52.310	0.00	0.00

ATOM	6109	HA	PRO	X	406	41.886	36.889	53.230	0.00	0.00
ATOM	6110	C	PRO	X	406	41.261	35.985	51.412	0.00	0.00
ATOM	6111	O	PRO	X	406	40.100	36.244	51.753	0.00	0.00
ATOM	6112	N	VAL	X	407	41.558	35.244	50.348	0.00	0.00
ATOM	6113	H	VAL	X	407	42.511	35.192	50.017	0.00	0.00
ATOM	6114	CA	VAL	X	407	40.471	34.825	49.412	0.00	0.00
ATOM	6115	HA	VAL	X	407	39.747	35.586	49.120	0.00	0.00
ATOM	6116	CB	VAL	X	407	41.206	34.302	48.153	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.953	33.620	48.557	0.00	0.00
ATOM	6118	CG1	VAL	X	407	40.254	33.668	47.153	0.00	0.00
ATOM	6119	HG11	VAL	X	407	39.691	32.898	47.681	0.00	0.00
ATOM	6120	HG12	VAL	X	407	39.568	34.448	46.822	0.00	0.00
ATOM	6121	HG13	VAL	X	407	40.762	33.214	46.303	0.00	0.00
ATOM	6122	CG2	VAL	X	407	41.867	35.475	47.302	0.00	0.00
ATOM	6123	HG21	VAL	X	407	41.066	36.026	46.810	0.00	0.00
ATOM	6124	HG22	VAL	X	407	42.546	35.125	46.524	0.00	0.00
ATOM	6125	HG23	VAL	X	407	42.330	36.219	47.950	0.00	0.00
ATOM	6126	C	VAL	X	407	39.550	33.843	50.062	0.00	0.00
ATOM	6127	O	VAL	X	407	38.347	33.923	49.925	0.00	0.00
ATOM	6128	N	ALA	X	408	40.080	33.035	50.960	0.00	0.00
ATOM	6129	H	ALA	X	408	41.089	33.021	51.007	0.00	0.00
ATOM	6130	CA	ALA	X	408	39.355	32.007	51.718	0.00	0.00
ATOM	6131	HA	ALA	X	408	38.545	31.470	51.225	0.00	0.00
ATOM	6132	CB	ALA	X	408	40.429	31.068	52.156	0.00	0.00
ATOM	6133	HB1	ALA	X	408	39.993	30.251	52.732	0.00	0.00
ATOM	6134	HB2	ALA	X	408	41.027	31.587	52.905	0.00	0.00
ATOM	6135	HB3	ALA	X	408	41.067	30.687	51.359	0.00	0.00
ATOM	6136	C	ALA	X	408	38.640	32.662	52.967	0.00	0.00
ATOM	6137	O	ALA	X	408	37.483	32.336	53.319	0.00	0.00
ATOM	6138	N	GLN	X	409	39.254	33.653	53.642	0.00	0.00
ATOM	6139	H	GLN	X	409	40.122	33.936	53.209	0.00	0.00
ATOM	6140	CA	GLN	X	409	38.681	34.340	54.801	0.00	0.00
ATOM	6141	HA	GLN	X	409	38.252	33.644	55.521	0.00	0.00
ATOM	6142	CB	GLN	X	409	39.703	35.136	55.467	0.00	0.00
ATOM	6143	HB2	GLN	X	409	40.607	34.574	55.701	0.00	0.00
ATOM	6144	HB3	GLN	X	409	40.003	35.839	54.690	0.00	0.00
ATOM	6145	CG	GLN	X	409	39.328	35.870	56.772	0.00	0.00
ATOM	6146	HG2	GLN	X	409	40.252	36.312	57.145	0.00	0.00
ATOM	6147	HG3	GLN	X	409	38.567	36.600	56.497	0.00	0.00
ATOM	6148	CD	GLN	X	409	38.801	35.051	57.965	0.00	0.00
ATOM	6149	OE1	GLN	X	409	37.649	34.635	58.133	0.00	0.00
ATOM	6150	NE2	GLN	X	409	39.732	34.775	58.869	0.00	0.00
ATOM	6151	HE21	GLN	X	409	39.408	34.316	59.708	0.00	0.00
ATOM	6152	HE22	GLN	X	409	40.648	35.190	58.778	0.00	0.00
ATOM	6153	C	GLN	X	409	37.463	35.218	54.358	0.00	0.00
ATOM	6154	O	GLN	X	409	36.363	35.055	54.946	0.00	0.00
ATOM	6155	N	LEU	X	410	37.608	35.860	53.207	0.00	0.00
ATOM	6156	H	LEU	X	410	38.551	36.093	52.931	0.00	0.00
ATOM	6157	CA	LEU	X	410	36.515	36.406	52.393	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.972	37.179	52.937	0.00	0.00
ATOM	6159	CB	LEU	X	410	37.159	36.896	51.073	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.981	37.572	51.309	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.580	36.089	50.472	0.00	0.00
ATOM	6162	CG	LEU	X	410	36.197	37.748	50.172	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.258	37.226	49.989	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.808	39.038	50.822	0.00	0.00
ATOM	6165	HD11	LEU	X	410	36.579	39.450	51.472	0.00	0.00
ATOM	6166	HD12	LEU	X	410	34.867	38.980	51.368	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.535	39.785	50.076	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.889	38.026	48.848	0.00	0.00
ATOM	6169	HD21	LEU	X	410	36.222	38.575	48.183	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.884	38.443	48.999	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.991	37.044	48.386	0.00	0.00
ATOM	6172	C	LEU	X	410	35.406	35.390	52.075	0.00	0.00
ATOM	6173	O	LEU	X	410	34.330	35.583	52.523	0.00	0.00
ATOM	6174	N	ALA	X	411	35.773	34.310	51.357	0.00	0.00
ATOM	6175	H	ALA	X	411	36.724	34.189	51.038	0.00	0.00

ATOM	6176	CA	ALA	X	411	34.753	33.366	50.785	0.00	0.00
ATOM	6177	HA	ALA	X	411	34.035	33.889	50.153	0.00	0.00
ATOM	6178	CB	ALA	X	411	35.367	32.384	49.883	0.00	0.00
ATOM	6179	HB1	ALA	X	411	34.655	31.695	49.429	0.00	0.00
ATOM	6180	HB2	ALA	X	411	36.101	31.873	50.507	0.00	0.00
ATOM	6181	HB3	ALA	X	411	35.888	32.819	49.030	0.00	0.00
ATOM	6182	C	ALA	X	411	33.962	32.751	51.934	0.00	0.00
ATOM	6183	O	ALA	X	411	32.771	32.772	51.842	0.00	0.00
ATOM	6184	N	GLY	X	412	34.590	32.291	53.105	0.00	0.00
ATOM	6185	H	GLY	X	412	35.588	32.421	53.196	0.00	0.00
ATOM	6186	CA	GLY	X	412	33.802	31.671	54.176	0.00	0.00
ATOM	6187	HA2	GLY	X	412	33.140	30.925	53.736	0.00	0.00
ATOM	6188	HA3	GLY	X	412	34.380	31.054	54.864	0.00	0.00
ATOM	6189	C	GLY	X	412	33.039	32.591	55.020	0.00	0.00
ATOM	6190	O	GLY	X	412	32.029	32.135	55.588	0.00	0.00
ATOM	6191	N	ARG	X	413	33.402	33.888	55.074	0.00	0.00
ATOM	6192	H	ARG	X	413	34.124	34.215	54.449	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.515	34.866	55.761	0.00	0.00
ATOM	6194	HA	ARG	X	413	32.155	34.400	56.678	0.00	0.00
ATOM	6195	CB	ARG	X	413	33.390	36.000	56.286	0.00	0.00
ATOM	6196	HB2	ARG	X	413	34.122	35.576	56.973	0.00	0.00
ATOM	6197	HB3	ARG	X	413	33.892	36.543	55.486	0.00	0.00
ATOM	6198	CG	ARG	X	413	32.544	37.012	57.145	0.00	0.00
ATOM	6199	HG2	ARG	X	413	33.180	37.725	57.670	0.00	0.00
ATOM	6200	HG3	ARG	X	413	32.035	37.620	56.397	0.00	0.00
ATOM	6201	CD	ARG	X	413	31.672	36.276	58.186	0.00	0.00
ATOM	6202	HD2	ARG	X	413	31.085	35.476	57.735	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.374	35.789	58.864	0.00	0.00
ATOM	6204	NE	ARG	X	413	30.858	37.291	58.883	0.00	0.00
ATOM	6205	HE	ARG	X	413	30.869	38.262	58.604	0.00	0.00
ATOM	6206	CZ	ARG	X	413	30.090	36.927	59.913	0.00	0.00
ATOM	6207	NH1	ARG	X	413	29.968	35.673	60.323	0.00	0.00
ATOM	6208	HH11	ARG	X	413	30.495	34.917	59.908	0.00	0.00
ATOM	6209	HH12	ARG	X	413	29.681	35.558	61.285	0.00	0.00
ATOM	6210	NH2	ARG	X	413	29.517	37.835	60.670	0.00	0.00
ATOM	6211	HH21	ARG	X	413	29.708	38.781	60.372	0.00	0.00
ATOM	6212	HH22	ARG	X	413	29.242	37.615	61.617	0.00	0.00
ATOM	6213	C	ARG	X	413	31.398	35.346	54.797	0.00	0.00
ATOM	6214	O	ARG	X	413	30.319	35.651	55.355	0.00	0.00
ATOM	6215	N	LEU	X	414	31.571	35.360	53.433	0.00	0.00
ATOM	6216	H	LEU	X	414	32.410	34.985	53.014	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.421	35.578	52.552	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.949	36.521	52.829	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.879	35.875	51.111	0.00	0.00
ATOM	6220	HB2	LEU	X	414	31.384	35.024	50.653	0.00	0.00
ATOM	6221	HB3	LEU	X	414	29.965	36.016	50.534	0.00	0.00
ATOM	6222	CG	LEU	X	414	31.787	37.098	50.916	0.00	0.00
ATOM	6223	HG	LEU	X	414	32.602	37.001	51.634	0.00	0.00
ATOM	6224	CD1	LEU	X	414	32.197	37.225	49.473	0.00	0.00
ATOM	6225	HD11	LEU	X	414	31.418	37.216	48.711	0.00	0.00
ATOM	6226	HD12	LEU	X	414	32.748	36.319	49.223	0.00	0.00
ATOM	6227	HD13	LEU	X	414	32.838	38.094	49.325	0.00	0.00
ATOM	6228	CD2	LEU	X	414	31.004	38.391	51.257	0.00	0.00
ATOM	6229	HD21	LEU	X	414	30.706	38.495	52.300	0.00	0.00
ATOM	6230	HD22	LEU	X	414	31.648	39.235	51.010	0.00	0.00
ATOM	6231	HD23	LEU	X	414	30.160	38.537	50.584	0.00	0.00
ATOM	6232	C	LEU	X	414	29.459	34.414	52.669	0.00	0.00
ATOM	6233	O	LEU	X	414	28.339	34.632	53.015	0.00	0.00
ATOM	6234	N	ALA	X	415	29.956	33.156	52.440	0.00	0.00
ATOM	6235	H	ALA	X	415	30.884	32.992	52.076	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.973	32.027	52.632	0.00	0.00
ATOM	6237	HA	ALA	X	415	28.258	32.142	51.817	0.00	0.00
ATOM	6238	CB	ALA	X	415	29.651	30.703	52.283	0.00	0.00
ATOM	6239	HB1	ALA	X	415	28.878	29.939	52.189	0.00	0.00
ATOM	6240	HB2	ALA	X	415	30.420	30.495	53.027	0.00	0.00
ATOM	6241	HB3	ALA	X	415	30.257	30.792	51.382	0.00	0.00
ATOM	6242	C	ALA	X	415	28.190	31.890	53.949	0.00	0.00

ATOM	6243	O	ALA	X	415	26.987	31.727	53.872	0.00	0.00
ATOM	6244	N	ALA	X	416	28.821	32.169	55.125	0.00	0.00
ATOM	6245	H	ALA	X	416	29.830	32.121	55.104	0.00	0.00
ATOM	6246	CA	ALA	X	416	28.175	32.286	56.440	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.711	31.323	56.655	0.00	0.00
ATOM	6248	CB	ALA	X	416	29.207	32.434	57.525	0.00	0.00
ATOM	6249	HB1	ALA	X	416	29.912	33.246	57.349	0.00	0.00
ATOM	6250	HB2	ALA	X	416	29.824	31.542	57.410	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.843	32.406	58.552	0.00	0.00
ATOM	6252	C	ALA	X	416	27.114	33.428	56.497	0.00	0.00
ATOM	6253	O	ALA	X	416	25.975	33.117	56.878	0.00	0.00
ATOM	6254	N	GLN	X	417	27.364	34.603	56.012	0.00	0.00
ATOM	6255	H	GLN	X	417	28.336	34.791	55.813	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.502	35.701	55.834	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.779	35.680	56.649	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.361	36.943	55.785	0.00	0.00
ATOM	6259	HB2	GLN	X	417	28.230	36.828	55.137	0.00	0.00
ATOM	6260	HB3	GLN	X	417	26.773	37.729	55.312	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.978	37.333	57.118	0.00	0.00
ATOM	6262	HG2	GLN	X	417	28.668	36.536	57.393	0.00	0.00
ATOM	6263	HG3	GLN	X	417	28.445	38.307	56.973	0.00	0.00
ATOM	6264	CD	GLN	X	417	26.880	37.410	58.228	0.00	0.00
ATOM	6265	OE1	GLN	X	417	26.625	36.488	58.967	0.00	0.00
ATOM	6266	NE2	GLN	X	417	26.440	38.636	58.468	0.00	0.00
ATOM	6267	HE21	GLN	X	417	25.879	38.877	59.272	0.00	0.00
ATOM	6268	HE22	GLN	X	417	26.932	39.374	57.985	0.00	0.00
ATOM	6269	C	GLN	X	417	25.547	35.603	54.622	0.00	0.00
ATOM	6270	O	GLN	X	417	24.630	36.379	54.381	0.00	0.00
ATOM	6271	N	GLY	X	418	25.658	34.560	53.875	0.00	0.00
ATOM	6272	H	GLY	X	418	26.490	33.992	53.942	0.00	0.00
ATOM	6273	CA	GLY	X	418	24.522	33.868	53.169	0.00	0.00
ATOM	6274	HA2	GLY	X	418	24.627	32.806	53.388	0.00	0.00
ATOM	6275	HA3	GLY	X	418	23.524	34.138	53.514	0.00	0.00
ATOM	6276	C	GLY	X	418	24.614	33.905	51.583	0.00	0.00
ATOM	6277	O	GLY	X	418	23.682	33.486	50.893	0.00	0.00
ATOM	6278	N	ALA	X	419	25.745	34.359	51.047	0.00	0.00
ATOM	6279	H	ALA	X	419	26.446	34.836	51.597	0.00	0.00
ATOM	6280	CA	ALA	X	419	25.993	34.358	49.601	0.00	0.00
ATOM	6281	HA	ALA	X	419	25.187	34.866	49.073	0.00	0.00
ATOM	6282	CB	ALA	X	419	27.229	35.279	49.443	0.00	0.00
ATOM	6283	HB1	ALA	X	419	28.116	34.754	49.797	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.097	36.200	50.011	0.00	0.00
ATOM	6285	HB3	ALA	X	419	27.326	35.533	48.387	0.00	0.00
ATOM	6286	C	ALA	X	419	26.303	32.962	49.095	0.00	0.00
ATOM	6287	O	ALA	X	419	26.646	32.141	49.920	0.00	0.00
ATOM	6288	N	ARG	X	420	26.104	32.691	47.827	0.00	0.00
ATOM	6289	H	ARG	X	420	25.834	33.406	47.167	0.00	0.00
ATOM	6290	CA	ARG	X	420	26.384	31.409	47.164	0.00	0.00
ATOM	6291	HA	ARG	X	420	26.461	30.626	47.918	0.00	0.00
ATOM	6292	CB	ARG	X	420	25.168	31.025	46.371	0.00	0.00
ATOM	6293	HB2	ARG	X	420	24.259	31.016	46.974	0.00	0.00
ATOM	6294	HB3	ARG	X	420	24.936	31.807	45.648	0.00	0.00
ATOM	6295	CG	ARG	X	420	25.430	29.679	45.721	0.00	0.00
ATOM	6296	HG2	ARG	X	420	26.269	29.670	45.025	0.00	0.00
ATOM	6297	HG3	ARG	X	420	25.715	28.955	46.484	0.00	0.00
ATOM	6298	CD	ARG	X	420	24.120	29.045	45.011	0.00	0.00
ATOM	6299	HD2	ARG	X	420	23.214	29.013	45.617	0.00	0.00
ATOM	6300	HD3	ARG	X	420	23.854	29.681	44.166	0.00	0.00
ATOM	6301	NE	ARG	X	420	24.284	27.709	44.594	0.00	0.00
ATOM	6302	HE	ARG	X	420	24.388	27.646	43.591	0.00	0.00
ATOM	6303	CZ	ARG	X	420	24.168	26.654	45.267	0.00	0.00
ATOM	6304	NH1	ARG	X	420	23.938	26.695	46.560	0.00	0.00
ATOM	6305	HH11	ARG	X	420	23.766	27.588	46.999	0.00	0.00
ATOM	6306	HH12	ARG	X	420	23.653	25.907	47.125	0.00	0.00
ATOM	6307	NH2	ARG	X	420	24.231	25.434	44.739	0.00	0.00
ATOM	6308	HH21	ARG	X	420	24.485	25.222	43.785	0.00	0.00
ATOM	6309	HH22	ARG	X	420	24.077	24.613	45.307	0.00	0.00

ATOM	6310	C	ARG	X	420	27.707	31.543	46.377	0.00	0.00
ATOM	6311	O	ARG	X	420	27.838	32.397	45.468	0.00	0.00
ATOM	6312	N	VAL	X	421	28.774	30.958	46.936	0.00	0.00
ATOM	6313	H	VAL	X	421	28.603	30.386	47.750	0.00	0.00
ATOM	6314	CA	VAL	X	421	30.180	31.146	46.421	0.00	0.00
ATOM	6315	HA	VAL	X	421	30.223	31.994	45.737	0.00	0.00
ATOM	6316	CB	VAL	X	421	31.176	31.481	47.571	0.00	0.00
ATOM	6317	HB	VAL	X	421	31.181	30.701	48.333	0.00	0.00
ATOM	6318	CG1	VAL	X	421	32.596	31.730	47.043	0.00	0.00
ATOM	6319	HG11	VAL	X	421	33.196	32.329	47.728	0.00	0.00
ATOM	6320	HG12	VAL	X	421	32.995	30.747	46.797	0.00	0.00
ATOM	6321	HG13	VAL	X	421	32.340	32.351	46.184	0.00	0.00
ATOM	6322	CG2	VAL	X	421	30.721	32.713	48.349	0.00	0.00
ATOM	6323	HG21	VAL	X	421	31.465	33.175	48.998	0.00	0.00
ATOM	6324	HG22	VAL	X	421	29.917	32.381	49.005	0.00	0.00
ATOM	6325	HG23	VAL	X	421	30.195	33.418	47.705	0.00	0.00
ATOM	6326	C	VAL	X	421	30.586	29.891	45.621	0.00	0.00
ATOM	6327	O	VAL	X	421	30.322	28.801	46.123	0.00	0.00
ATOM	6328	N	TYR	X	422	31.436	29.954	44.622	0.00	0.00
ATOM	6329	H	TYR	X	422	31.671	30.859	44.240	0.00	0.00
ATOM	6330	CA	TYR	X	422	32.176	28.912	43.871	0.00	0.00
ATOM	6331	HA	TYR	X	422	32.088	27.960	44.396	0.00	0.00
ATOM	6332	CB	TYR	X	422	31.574	28.753	42.500	0.00	0.00
ATOM	6333	HB2	TYR	X	422	31.615	29.705	41.970	0.00	0.00
ATOM	6334	HB3	TYR	X	422	32.102	27.973	41.952	0.00	0.00
ATOM	6335	CG	TYR	X	422	30.132	28.270	42.490	0.00	0.00
ATOM	6336	CD1	TYR	X	422	29.940	26.876	42.420	0.00	0.00
ATOM	6337	HD1	TYR	X	422	30.745	26.169	42.554	0.00	0.00
ATOM	6338	CE1	TYR	X	422	28.589	26.360	42.397	0.00	0.00
ATOM	6339	HE1	TYR	X	422	28.362	25.309	42.295	0.00	0.00
ATOM	6340	CZ	TYR	X	422	27.498	27.216	42.295	0.00	0.00
ATOM	6341	OH	TYR	X	422	26.202	26.796	42.115	0.00	0.00
ATOM	6342	HH	TYR	X	422	26.067	25.875	41.882	0.00	0.00
ATOM	6343	CE2	TYR	X	422	27.738	28.626	42.248	0.00	0.00
ATOM	6344	HE2	TYR	X	422	26.921	29.324	42.137	0.00	0.00
ATOM	6345	CD2	TYR	X	422	29.084	29.166	42.351	0.00	0.00
ATOM	6346	HD2	TYR	X	422	29.246	30.227	42.230	0.00	0.00
ATOM	6347	C	TYR	X	422	33.689	29.258	43.852	0.00	0.00
ATOM	6348	O	TYR	X	422	34.102	30.339	43.455	0.00	0.00
ATOM	6349	N	ALA	X	423	34.542	28.303	44.319	0.00	0.00
ATOM	6350	H	ALA	X	423	34.057	27.419	44.379	0.00	0.00
ATOM	6351	CA	ALA	X	423	35.969	28.433	44.539	0.00	0.00
ATOM	6352	HA	ALA	X	423	36.228	29.485	44.416	0.00	0.00
ATOM	6353	CB	ALA	X	423	36.237	28.139	46.024	0.00	0.00
ATOM	6354	HB1	ALA	X	423	35.968	27.123	46.313	0.00	0.00
ATOM	6355	HB2	ALA	X	423	35.688	28.814	46.681	0.00	0.00
ATOM	6356	HB3	ALA	X	423	37.283	28.286	46.292	0.00	0.00
ATOM	6357	C	ALA	X	423	36.878	27.563	43.568	0.00	0.00
ATOM	6358	O	ALA	X	423	36.528	26.440	43.213	0.00	0.00
ATOM	6359	N	TYR	X	424	38.050	28.114	43.238	0.00	0.00
ATOM	6360	H	TYR	X	424	38.369	29.055	43.422	0.00	0.00
ATOM	6361	CA	TYR	X	424	38.938	27.441	42.384	0.00	0.00
ATOM	6362	HA	TYR	X	424	38.861	26.395	42.681	0.00	0.00
ATOM	6363	CB	TYR	X	424	38.560	27.561	40.878	0.00	0.00
ATOM	6364	HB2	TYR	X	424	39.029	26.769	40.294	0.00	0.00
ATOM	6365	HB3	TYR	X	424	37.493	27.391	40.731	0.00	0.00
ATOM	6366	CG	TYR	X	424	38.986	28.876	40.252	0.00	0.00
ATOM	6367	CD1	TYR	X	424	40.281	28.959	39.743	0.00	0.00
ATOM	6368	HD1	TYR	X	424	40.787	28.006	39.770	0.00	0.00
ATOM	6369	CE1	TYR	X	424	40.867	30.180	39.324	0.00	0.00
ATOM	6370	HE1	TYR	X	424	41.932	30.175	39.142	0.00	0.00
ATOM	6371	CZ	TYR	X	424	40.088	31.314	39.366	0.00	0.00
ATOM	6372	OH	TYR	X	424	40.679	32.505	39.015	0.00	0.00
ATOM	6373	HH	TYR	X	424	41.616	32.559	38.813	0.00	0.00
ATOM	6374	CE2	TYR	X	424	38.741	31.218	39.831	0.00	0.00
ATOM	6375	HE2	TYR	X	424	38.130	32.089	40.019	0.00	0.00
ATOM	6376	CD2	TYR	X	424	38.147	29.968	40.226	0.00	0.00

ATOM	6377	HD2	TYR	X	424	37.150	29.980	40.642	0.00	0.00
ATOM	6378	C	TYR	X	424	40.447	27.671	42.674	0.00	0.00
ATOM	6379	O	TYR	X	424	40.822	28.707	43.236	0.00	0.00
ATOM	6380	N	VAL	X	425	41.284	26.721	42.262	0.00	0.00
ATOM	6381	H	VAL	X	425	40.865	25.921	41.809	0.00	0.00
ATOM	6382	CA	VAL	X	425	42.710	26.825	42.090	0.00	0.00
ATOM	6383	HA	VAL	X	425	43.029	27.866	42.132	0.00	0.00
ATOM	6384	CB	VAL	X	425	43.564	26.079	43.103	0.00	0.00
ATOM	6385	HB	VAL	X	425	43.295	25.029	42.988	0.00	0.00
ATOM	6386	CG1	VAL	X	425	45.033	26.145	42.843	0.00	0.00
ATOM	6387	HG11	VAL	X	425	45.614	25.824	43.708	0.00	0.00
ATOM	6388	HG12	VAL	X	425	45.241	25.530	41.968	0.00	0.00
ATOM	6389	HG13	VAL	X	425	45.239	27.192	42.622	0.00	0.00
ATOM	6390	CG2	VAL	X	425	43.325	26.376	44.607	0.00	0.00
ATOM	6391	HG21	VAL	X	425	43.729	25.622	45.283	0.00	0.00
ATOM	6392	HG22	VAL	X	425	42.238	26.409	44.683	0.00	0.00
ATOM	6393	HG23	VAL	X	425	43.736	27.338	44.914	0.00	0.00
ATOM	6394	C	VAL	X	425	42.943	26.270	40.656	0.00	0.00
ATOM	6395	O	VAL	X	425	42.366	25.278	40.346	0.00	0.00
ATOM	6396	N	PHE	X	426	43.822	26.979	39.889	0.00	0.00
ATOM	6397	H	PHE	X	426	44.145	27.842	40.302	0.00	0.00
ATOM	6398	CA	PHE	X	426	44.358	26.719	38.532	0.00	0.00
ATOM	6399	HA	PHE	X	426	43.589	26.122	38.042	0.00	0.00
ATOM	6400	CB	PHE	X	426	44.230	28.056	37.654	0.00	0.00
ATOM	6401	HB2	PHE	X	426	43.209	28.404	37.498	0.00	0.00
ATOM	6402	HB3	PHE	X	426	44.848	28.786	38.178	0.00	0.00
ATOM	6403	CG	PHE	X	426	44.849	27.933	36.283	0.00	0.00
ATOM	6404	CD1	PHE	X	426	43.950	27.677	35.237	0.00	0.00
ATOM	6405	HD1	PHE	X	426	42.886	27.544	35.372	0.00	0.00
ATOM	6406	CE1	PHE	X	426	44.418	27.697	33.934	0.00	0.00
ATOM	6407	HE1	PHE	X	426	43.807	27.502	33.065	0.00	0.00
ATOM	6408	CZ	PHE	X	426	45.734	27.698	33.643	0.00	0.00
ATOM	6409	HZ	PHE	X	426	46.083	27.579	32.628	0.00	0.00
ATOM	6410	CE2	PHE	X	426	46.639	28.048	34.736	0.00	0.00
ATOM	6411	HE2	PHE	X	426	47.673	28.210	34.468	0.00	0.00
ATOM	6412	CD2	PHE	X	426	46.199	28.059	36.030	0.00	0.00
ATOM	6413	HD2	PHE	X	426	46.842	28.385	36.835	0.00	0.00
ATOM	6414	C	PHE	X	426	45.727	26.109	38.490	0.00	0.00
ATOM	6415	O	PHE	X	426	46.605	26.506	39.215	0.00	0.00
ATOM	6416	N	GLU	X	427	45.907	25.028	37.659	0.00	0.00
ATOM	6417	H	GLU	X	427	45.154	24.710	37.066	0.00	0.00
ATOM	6418	CA	GLU	X	427	47.162	24.147	37.703	0.00	0.00
ATOM	6419	HA	GLU	X	427	47.783	24.488	38.531	0.00	0.00
ATOM	6420	CB	GLU	X	427	46.713	22.728	38.022	0.00	0.00
ATOM	6421	HB2	GLU	X	427	45.963	22.543	37.252	0.00	0.00
ATOM	6422	HB3	GLU	X	427	47.597	22.095	38.092	0.00	0.00
ATOM	6423	CG	GLU	X	427	46.061	22.652	39.412	0.00	0.00
ATOM	6424	HG2	GLU	X	427	46.800	23.067	40.098	0.00	0.00
ATOM	6425	HG3	GLU	X	427	45.103	23.167	39.342	0.00	0.00
ATOM	6426	CD	GLU	X	427	46.100	21.228	39.993	0.00	0.00
ATOM	6427	OE1	GLU	X	427	46.831	20.927	40.951	0.00	0.00
ATOM	6428	OE2	GLU	X	427	45.316	20.441	39.435	0.00	0.00
ATOM	6429	C	GLU	X	427	48.156	24.092	36.533	0.00	0.00
ATOM	6430	O	GLU	X	427	49.304	23.654	36.774	0.00	0.00
ATOM	6431	N	HIE	X	428	47.772	24.445	35.295	0.00	0.00
ATOM	6432	H	HIE	X	428	46.844	24.821	35.158	0.00	0.00
ATOM	6433	CA	HIE	X	428	48.510	24.220	34.071	0.00	0.00
ATOM	6434	HA	HIE	X	428	49.058	23.286	34.192	0.00	0.00
ATOM	6435	CB	HIE	X	428	47.524	23.940	32.921	0.00	0.00
ATOM	6436	HB2	HIE	X	428	46.865	23.097	33.126	0.00	0.00
ATOM	6437	HB3	HIE	X	428	46.941	24.861	32.938	0.00	0.00
ATOM	6438	CG	HIE	X	428	48.265	23.550	31.659	0.00	0.00
ATOM	6439	ND1	HIE	X	428	49.247	22.510	31.512	0.00	0.00
ATOM	6440	CE1	HIE	X	428	49.679	22.487	30.248	0.00	0.00
ATOM	6441	HE1	HIE	X	428	50.351	21.766	29.806	0.00	0.00
ATOM	6442	NE2	HIE	X	428	49.020	23.430	29.582	0.00	0.00
ATOM	6443	HE2	HIE	X	428	49.063	23.463	28.573	0.00	0.00

ATOM	6444	CD2	HIE	X	428	48.131	24.083	30.414	0.00	0.00
ATOM	6445	HD2	HIE	X	428	47.445	24.895	30.225	0.00	0.00
ATOM	6446	C	HIE	X	428	49.599	25.263	33.747	0.00	0.00
ATOM	6447	O	HIE	X	428	49.260	26.407	33.486	0.00	0.00
ATOM	6448	N	ARG	X	429	50.839	24.875	33.690	0.00	0.00
ATOM	6449	H	ARG	X	429	51.104	23.945	33.981	0.00	0.00
ATOM	6450	CA	ARG	X	429	51.944	25.722	33.171	0.00	0.00
ATOM	6451	HA	ARG	X	429	51.714	26.752	33.442	0.00	0.00
ATOM	6452	CB	ARG	X	429	53.274	25.258	33.762	0.00	0.00
ATOM	6453	HB2	ARG	X	429	53.139	24.970	34.804	0.00	0.00
ATOM	6454	HB3	ARG	X	429	53.663	24.389	33.231	0.00	0.00
ATOM	6455	CG	ARG	X	429	54.290	26.462	33.652	0.00	0.00
ATOM	6456	HG2	ARG	X	429	54.256	26.801	32.616	0.00	0.00
ATOM	6457	HG3	ARG	X	429	53.985	27.243	34.348	0.00	0.00
ATOM	6458	CD	ARG	X	429	55.749	25.905	33.875	0.00	0.00
ATOM	6459	HD2	ARG	X	429	55.913	25.530	34.885	0.00	0.00
ATOM	6460	HD3	ARG	X	429	55.935	25.140	33.121	0.00	0.00
ATOM	6461	NE	ARG	X	429	56.798	26.944	33.553	0.00	0.00
ATOM	6462	HE	ARG	X	429	56.642	27.798	34.070	0.00	0.00
ATOM	6463	CZ	ARG	X	429	57.879	26.730	32.801	0.00	0.00
ATOM	6464	NH1	ARG	X	429	58.338	25.497	32.643	0.00	0.00
ATOM	6465	HH11	ARG	X	429	57.696	24.730	32.786	0.00	0.00
ATOM	6466	HH12	ARG	X	429	59.222	25.333	32.183	0.00	0.00
ATOM	6467	NH2	ARG	X	429	58.736	27.660	32.358	0.00	0.00
ATOM	6468	HH21	ARG	X	429	58.762	28.636	32.616	0.00	0.00
ATOM	6469	HH22	ARG	X	429	59.582	27.362	31.894	0.00	0.00
ATOM	6470	C	ARG	X	429	51.903	25.631	31.617	0.00	0.00
ATOM	6471	O	ARG	X	429	52.016	24.550	31.005	0.00	0.00
ATOM	6472	N	ALA	X	430	51.473	26.691	30.921	0.00	0.00
ATOM	6473	H	ALA	X	430	51.229	27.521	31.443	0.00	0.00
ATOM	6474	CA	ALA	X	430	51.102	26.627	29.539	0.00	0.00
ATOM	6475	HA	ALA	X	430	50.494	25.737	29.369	0.00	0.00
ATOM	6476	CB	ALA	X	430	50.329	27.941	29.187	0.00	0.00
ATOM	6477	HB1	ALA	X	430	50.160	27.991	28.111	0.00	0.00
ATOM	6478	HB2	ALA	X	430	50.919	28.768	29.581	0.00	0.00
ATOM	6479	HB3	ALA	X	430	49.388	27.947	29.736	0.00	0.00
ATOM	6480	C	ALA	X	430	52.439	26.454	28.739	0.00	0.00
ATOM	6481	O	ALA	X	430	53.584	26.833	29.036	0.00	0.00
ATOM	6482	N	SER	X	431	52.270	25.825	27.558	0.00	0.00
ATOM	6483	H	SER	X	431	51.323	25.560	27.325	0.00	0.00
ATOM	6484	CA	SER	X	431	53.417	25.560	26.556	0.00	0.00
ATOM	6485	HA	SER	X	431	54.115	24.919	27.094	0.00	0.00
ATOM	6486	CB	SER	X	431	52.871	24.824	25.339	0.00	0.00
ATOM	6487	HB2	SER	X	431	53.768	24.547	24.785	0.00	0.00
ATOM	6488	HB3	SER	X	431	52.373	23.899	25.630	0.00	0.00
ATOM	6489	OG	SER	X	431	51.972	25.477	24.437	0.00	0.00
ATOM	6490	HG	SER	X	431	51.055	25.337	24.682	0.00	0.00
ATOM	6491	C	SER	X	431	54.195	26.803	26.138	0.00	0.00
ATOM	6492	O	SER	X	431	55.431	26.734	25.903	0.00	0.00
ATOM	6493	N	THR	X	432	53.494	27.981	26.145	0.00	0.00
ATOM	6494	H	THR	X	432	52.487	27.932	26.208	0.00	0.00
ATOM	6495	CA	THR	X	432	54.009	29.255	25.704	0.00	0.00
ATOM	6496	HA	THR	X	432	54.744	29.252	24.899	0.00	0.00
ATOM	6497	CB	THR	X	432	52.701	30.004	25.202	0.00	0.00
ATOM	6498	HB	THR	X	432	52.860	31.066	25.017	0.00	0.00
ATOM	6499	CG2	THR	X	432	52.210	29.343	23.928	0.00	0.00
ATOM	6500	HG21	THR	X	432	51.304	29.851	23.598	0.00	0.00
ATOM	6501	HG22	THR	X	432	52.056	28.268	24.020	0.00	0.00
ATOM	6502	HG23	THR	X	432	52.894	29.571	23.111	0.00	0.00
ATOM	6503	OG1	THR	X	432	51.622	29.998	26.107	0.00	0.00
ATOM	6504	HG1	THR	X	432	51.757	30.706	26.742	0.00	0.00
ATOM	6505	C	THR	X	432	54.511	30.148	26.838	0.00	0.00
ATOM	6506	O	THR	X	432	55.119	31.133	26.536	0.00	0.00
ATOM	6507	N	LEU	X	433	54.346	29.731	28.093	0.00	0.00
ATOM	6508	H	LEU	X	433	53.942	28.810	28.188	0.00	0.00
ATOM	6509	CA	LEU	X	433	54.670	30.580	29.271	0.00	0.00
ATOM	6510	HA	LEU	X	433	54.215	31.562	29.138	0.00	0.00

ATOM	6511	CB	LEU	X	433	54.174	29.822	30.502	0.00	0.00
ATOM	6512	HB2	LEU	X	433	53.128	29.559	30.347	0.00	0.00
ATOM	6513	HB3	LEU	X	433	54.742	28.898	30.614	0.00	0.00
ATOM	6514	CG	LEU	X	433	54.315	30.667	31.768	0.00	0.00
ATOM	6515	HG	LEU	X	433	55.368	30.930	31.872	0.00	0.00
ATOM	6516	CD1	LEU	X	433	53.431	31.963	31.867	0.00	0.00
ATOM	6517	HD11	LEU	X	433	52.369	31.722	31.838	0.00	0.00
ATOM	6518	HD12	LEU	X	433	53.602	32.617	31.012	0.00	0.00
ATOM	6519	HD13	LEU	X	433	53.633	32.489	32.800	0.00	0.00
ATOM	6520	CD2	LEU	X	433	54.139	29.767	33.036	0.00	0.00
ATOM	6521	HD21	LEU	X	433	55.011	29.126	33.165	0.00	0.00
ATOM	6522	HD22	LEU	X	433	54.052	30.425	33.900	0.00	0.00
ATOM	6523	HD23	LEU	X	433	53.233	29.166	32.958	0.00	0.00
ATOM	6524	C	LEU	X	433	56.207	30.823	29.226	0.00	0.00
ATOM	6525	O	LEU	X	433	57.003	29.897	29.228	0.00	0.00
ATOM	6526	N	SER	X	434	56.554	32.150	29.278	0.00	0.00
ATOM	6527	H	SER	X	434	55.861	32.877	29.390	0.00	0.00
ATOM	6528	CA	SER	X	434	57.998	32.448	29.254	0.00	0.00
ATOM	6529	HA	SER	X	434	58.599	31.672	28.781	0.00	0.00
ATOM	6530	CB	SER	X	434	58.242	33.680	28.393	0.00	0.00
ATOM	6531	HB2	SER	X	434	59.297	33.904	28.238	0.00	0.00
ATOM	6532	HB3	SER	X	434	57.741	33.551	27.433	0.00	0.00
ATOM	6533	OG	SER	X	434	57.576	34.758	29.052	0.00	0.00
ATOM	6534	HG	SER	X	434	56.640	34.595	28.917	0.00	0.00
ATOM	6535	C	SER	X	434	58.638	32.651	30.626	0.00	0.00
ATOM	6536	O	SER	X	434	59.870	32.752	30.752	0.00	0.00
ATOM	6537	N	TRP	X	435	57.830	32.811	31.716	0.00	0.00
ATOM	6538	H	TRP	X	435	56.829	32.734	31.611	0.00	0.00
ATOM	6539	CA	TRP	X	435	58.388	32.724	33.100	0.00	0.00
ATOM	6540	HA	TRP	X	435	59.150	33.503	33.139	0.00	0.00
ATOM	6541	CB	TRP	X	435	57.305	33.121	34.128	0.00	0.00
ATOM	6542	HB2	TRP	X	435	56.348	32.602	34.062	0.00	0.00
ATOM	6543	HB3	TRP	X	435	57.678	32.828	35.109	0.00	0.00
ATOM	6544	CG	TRP	X	435	57.009	34.607	34.226	0.00	0.00
ATOM	6545	CD1	TRP	X	435	55.840	35.173	33.797	0.00	0.00
ATOM	6546	HD1	TRP	X	435	54.960	34.641	33.467	0.00	0.00
ATOM	6547	NE1	TRP	X	435	55.846	36.525	34.003	0.00	0.00
ATOM	6548	HE1	TRP	X	435	55.016	37.097	33.936	0.00	0.00
ATOM	6549	CE2	TRP	X	435	57.075	36.938	34.566	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	57.548	38.189	35.009	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	56.951	39.057	34.771	0.00	0.00
ATOM	6552	CH2	TRP	X	435	58.857	38.286	35.523	0.00	0.00
ATOM	6553	HH2	TRP	X	435	59.170	39.281	35.804	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	59.643	37.118	35.628	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	60.573	37.175	36.175	0.00	0.00
ATOM	6556	CE3	TRP	X	435	59.122	35.855	35.231	0.00	0.00
ATOM	6557	HE3	TRP	X	435	59.638	34.942	35.488	0.00	0.00
ATOM	6558	CD2	TRP	X	435	57.802	35.721	34.709	0.00	0.00
ATOM	6559	C	TRP	X	435	59.017	31.304	33.402	0.00	0.00
ATOM	6560	O	TRP	X	435	58.525	30.354	32.812	0.00	0.00
ATOM	6561	N	PRO	X	436	59.936	31.180	34.416	0.00	0.00
ATOM	6562	CD	PRO	X	436	60.506	32.337	35.138	0.00	0.00
ATOM	6563	HD2	PRO	X	436	59.809	32.808	35.830	0.00	0.00
ATOM	6564	HD3	PRO	X	436	61.026	33.099	34.558	0.00	0.00
ATOM	6565	CG	PRO	X	436	61.599	31.841	36.030	0.00	0.00
ATOM	6566	HG2	PRO	X	436	61.219	31.465	36.980	0.00	0.00
ATOM	6567	HG3	PRO	X	436	62.382	32.583	36.184	0.00	0.00
ATOM	6568	CB	PRO	X	436	62.095	30.682	35.276	0.00	0.00
ATOM	6569	HB2	PRO	X	436	62.624	29.936	35.869	0.00	0.00
ATOM	6570	HB3	PRO	X	436	62.732	31.110	34.503	0.00	0.00
ATOM	6571	CA	PRO	X	436	60.837	30.054	34.694	0.00	0.00
ATOM	6572	HA	PRO	X	436	61.064	29.604	33.727	0.00	0.00
ATOM	6573	C	PRO	X	436	60.201	28.941	35.516	0.00	0.00
ATOM	6574	O	PRO	X	436	59.194	29.177	36.215	0.00	0.00
ATOM	6575	N	LEU	X	437	60.789	27.725	35.364	0.00	0.00
ATOM	6576	H	LEU	X	437	61.614	27.595	34.796	0.00	0.00
ATOM	6577	CA	LEU	X	437	60.282	26.529	36.079	0.00	0.00

ATOM	6578	HA	LEU	X	437	59.275	26.396	35.682	0.00	0.00
ATOM	6579	CB	LEU	X	437	61.120	25.384	35.612	0.00	0.00
ATOM	6580	HB2	LEU	X	437	60.981	25.393	34.531	0.00	0.00
ATOM	6581	HB3	LEU	X	437	62.166	25.565	35.858	0.00	0.00
ATOM	6582	CG	LEU	X	437	60.711	23.987	36.139	0.00	0.00
ATOM	6583	HG	LEU	X	437	60.651	23.947	37.227	0.00	0.00
ATOM	6584	CD1	LEU	X	437	59.326	23.598	35.735	0.00	0.00
ATOM	6585	HD11	LEU	X	437	59.242	23.644	34.650	0.00	0.00
ATOM	6586	HD12	LEU	X	437	58.671	24.397	36.083	0.00	0.00
ATOM	6587	HD13	LEU	X	437	59.132	22.614	36.162	0.00	0.00
ATOM	6588	CD2	LEU	X	437	61.853	23.042	35.794	0.00	0.00
ATOM	6589	HD21	LEU	X	437	62.708	23.346	36.399	0.00	0.00
ATOM	6590	HD22	LEU	X	437	61.584	22.023	36.070	0.00	0.00
ATOM	6591	HD23	LEU	X	437	62.117	23.087	34.738	0.00	0.00
ATOM	6592	C	LEU	X	437	60.174	26.622	37.653	0.00	0.00
ATOM	6593	O	LEU	X	437	59.215	26.021	38.208	0.00	0.00
ATOM	6594	N	TRP	X	438	60.984	27.361	38.364	0.00	0.00
ATOM	6595	H	TRP	X	438	61.768	27.882	37.997	0.00	0.00
ATOM	6596	CA	TRP	X	438	60.845	27.559	39.817	0.00	0.00
ATOM	6597	HA	TRP	X	438	60.763	26.602	40.333	0.00	0.00
ATOM	6598	CB	TRP	X	438	62.098	28.240	40.349	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.049	28.192	41.436	0.00	0.00
ATOM	6600	HB3	TRP	X	438	62.939	27.567	40.179	0.00	0.00
ATOM	6601	CG	TRP	X	438	62.465	29.593	39.883	0.00	0.00
ATOM	6602	CD1	TRP	X	438	63.497	29.958	39.004	0.00	0.00
ATOM	6603	HD1	TRP	X	438	64.206	29.270	38.568	0.00	0.00
ATOM	6604	NE1	TRP	X	438	63.558	31.317	38.829	0.00	0.00
ATOM	6605	HE1	TRP	X	438	64.237	31.862	38.317	0.00	0.00
ATOM	6606	CE2	TRP	X	438	62.577	31.912	39.598	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	62.205	33.271	39.670	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	62.839	33.997	39.183	0.00	0.00
ATOM	6609	CH2	TRP	X	438	61.213	33.616	40.592	0.00	0.00
ATOM	6610	HH2	TRP	X	438	60.991	34.669	40.685	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	60.416	32.618	41.246	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	59.591	32.793	41.920	0.00	0.00
ATOM	6613	CE3	TRP	X	438	60.857	31.248	41.169	0.00	0.00
ATOM	6614	HE3	TRP	X	438	60.253	30.462	41.598	0.00	0.00
ATOM	6615	CD2	TRP	X	438	61.956	30.881	40.330	0.00	0.00
ATOM	6616	C	TRP	X	438	59.601	28.372	40.152	0.00	0.00
ATOM	6617	O	TRP	X	438	59.008	28.155	41.241	0.00	0.00
ATOM	6618	N	MET	X	439	59.127	29.290	39.322	0.00	0.00
ATOM	6619	H	MET	X	439	59.592	29.363	38.428	0.00	0.00
ATOM	6620	CA	MET	X	439	57.982	30.209	39.546	0.00	0.00
ATOM	6621	HA	MET	X	439	58.074	30.537	40.581	0.00	0.00
ATOM	6622	CB	MET	X	439	58.177	31.426	38.565	0.00	0.00
ATOM	6623	HB2	MET	X	439	59.211	31.758	38.656	0.00	0.00
ATOM	6624	HB3	MET	X	439	58.114	31.065	37.538	0.00	0.00
ATOM	6625	CG	MET	X	439	57.282	32.599	38.910	0.00	0.00
ATOM	6626	HG2	MET	X	439	56.262	32.255	38.738	0.00	0.00
ATOM	6627	HG3	MET	X	439	57.459	32.888	39.946	0.00	0.00
ATOM	6628	SD	MET	X	439	57.460	34.068	37.872	0.00	0.00
ATOM	6629	CE	MET	X	439	59.160	34.644	38.282	0.00	0.00
ATOM	6630	HE1	MET	X	439	59.914	33.983	37.853	0.00	0.00
ATOM	6631	HE2	MET	X	439	59.372	35.610	37.824	0.00	0.00
ATOM	6632	HE3	MET	X	439	59.208	34.800	39.360	0.00	0.00
ATOM	6633	C	MET	X	439	56.604	29.456	39.367	0.00	0.00
ATOM	6634	O	MET	X	439	55.568	29.926	39.844	0.00	0.00
ATOM	6635	N	GLY	X	440	56.609	28.410	38.495	0.00	0.00
ATOM	6636	H	GLY	X	440	57.454	28.358	37.944	0.00	0.00
ATOM	6637	CA	GLY	X	440	55.490	27.586	37.978	0.00	0.00
ATOM	6638	HA2	GLY	X	440	55.738	26.684	37.419	0.00	0.00
ATOM	6639	HA3	GLY	X	440	54.963	27.198	38.850	0.00	0.00
ATOM	6640	C	GLY	X	440	54.471	28.389	37.168	0.00	0.00
ATOM	6641	O	GLY	X	440	54.864	28.853	36.098	0.00	0.00
ATOM	6642	N	VAL	X	441	53.182	28.492	37.614	0.00	0.00
ATOM	6643	H	VAL	X	441	53.012	28.113	38.534	0.00	0.00
ATOM	6644	CA	VAL	X	441	52.156	29.455	37.142	0.00	0.00

ATOM	6645	HA	VAL	X	441	52.398	29.748	36.121	0.00	0.00
ATOM	6646	CB	VAL	X	441	50.727	28.817	37.058	0.00	0.00
ATOM	6647	HB	VAL	X	441	50.388	28.599	38.071	0.00	0.00
ATOM	6648	CG1	VAL	X	441	49.790	29.903	36.483	0.00	0.00
ATOM	6649	HG11	VAL	X	441	49.870	30.813	37.079	0.00	0.00
ATOM	6650	HG12	VAL	X	441	50.031	30.126	35.444	0.00	0.00
ATOM	6651	HG13	VAL	X	441	48.733	29.643	36.529	0.00	0.00
ATOM	6652	CG2	VAL	X	441	50.627	27.538	36.215	0.00	0.00
ATOM	6653	HG21	VAL	X	441	50.776	27.835	35.177	0.00	0.00
ATOM	6654	HG22	VAL	X	441	49.626	27.115	36.132	0.00	0.00
ATOM	6655	HG23	VAL	X	441	51.307	26.774	36.593	0.00	0.00
ATOM	6656	C	VAL	X	441	52.071	30.723	38.040	0.00	0.00
ATOM	6657	O	VAL	X	441	51.575	30.633	39.149	0.00	0.00
ATOM	6658	N	PRO	X	442	52.627	31.869	37.585	0.00	0.00
ATOM	6659	CD	PRO	X	442	53.409	31.955	36.414	0.00	0.00
ATOM	6660	HD2	PRO	X	442	52.875	31.693	35.501	0.00	0.00
ATOM	6661	HD3	PRO	X	442	54.292	31.353	36.633	0.00	0.00
ATOM	6662	CG	PRO	X	442	53.843	33.338	36.242	0.00	0.00
ATOM	6663	HG2	PRO	X	442	53.318	33.882	35.456	0.00	0.00
ATOM	6664	HG3	PRO	X	442	54.889	33.278	35.940	0.00	0.00
ATOM	6665	CB	PRO	X	442	53.652	33.992	37.614	0.00	0.00
ATOM	6666	HB2	PRO	X	442	53.356	35.040	37.575	0.00	0.00
ATOM	6667	HB3	PRO	X	442	54.618	34.032	38.118	0.00	0.00
ATOM	6668	CA	PRO	X	442	52.682	33.151	38.253	0.00	0.00
ATOM	6669	HA	PRO	X	442	53.053	32.935	39.254	0.00	0.00
ATOM	6670	C	PRO	X	442	51.307	33.844	38.379	0.00	0.00
ATOM	6671	O	PRO	X	442	50.395	33.573	37.635	0.00	0.00
ATOM	6672	N	HIP	X	443	51.190	34.621	39.401	0.00	0.00
ATOM	6673	H	HIP	X	443	51.829	34.481	40.170	0.00	0.00
ATOM	6674	CA	HIP	X	443	50.010	35.425	39.893	0.00	0.00
ATOM	6675	HA	HIP	X	443	49.392	34.900	40.622	0.00	0.00
ATOM	6676	CB	HIP	X	443	50.633	36.631	40.625	0.00	0.00
ATOM	6677	HB2	HIP	X	443	51.134	36.351	41.552	0.00	0.00
ATOM	6678	HB3	HIP	X	443	51.425	37.043	40.000	0.00	0.00
ATOM	6679	CG	HIP	X	443	49.626	37.576	41.005	0.00	0.00
ATOM	6680	ND1	HIP	X	443	48.561	37.376	41.822	0.00	0.00
ATOM	6681	HD1	HIP	X	443	48.187	36.455	41.999	0.00	0.00
ATOM	6682	CE1	HIP	X	443	47.843	38.551	41.990	0.00	0.00
ATOM	6683	HE1	HIP	X	443	47.047	38.725	42.699	0.00	0.00
ATOM	6684	NE2	HIP	X	443	48.459	39.403	41.163	0.00	0.00
ATOM	6685	HE2	HIP	X	443	48.113	40.351	41.139	0.00	0.00
ATOM	6686	CD2	HIP	X	443	49.522	38.880	40.536	0.00	0.00
ATOM	6687	HD2	HIP	X	443	50.190	39.455	39.911	0.00	0.00
ATOM	6688	C	HIP	X	443	49.072	36.000	38.774	0.00	0.00
ATOM	6689	O	HIP	X	443	49.479	36.917	38.103	0.00	0.00
ATOM	6690	N	GLY	X	444	47.854	35.422	38.547	0.00	0.00
ATOM	6691	H	GLY	X	444	47.474	34.757	39.204	0.00	0.00
ATOM	6692	CA	GLY	X	444	46.893	35.796	37.536	0.00	0.00
ATOM	6693	HA2	GLY	X	444	46.084	35.065	37.548	0.00	0.00
ATOM	6694	HA3	GLY	X	444	46.369	36.651	37.964	0.00	0.00
ATOM	6695	C	GLY	X	444	47.345	35.706	36.083	0.00	0.00
ATOM	6696	O	GLY	X	444	47.253	36.634	35.319	0.00	0.00
ATOM	6697	N	TYR	X	445	47.917	34.566	35.673	0.00	0.00
ATOM	6698	H	TYR	X	445	48.086	33.813	36.325	0.00	0.00
ATOM	6699	CA	TYR	X	445	48.254	34.274	34.262	0.00	0.00
ATOM	6700	HA	TYR	X	445	48.090	35.107	33.579	0.00	0.00
ATOM	6701	CB	TYR	X	445	49.751	33.913	34.109	0.00	0.00
ATOM	6702	HB2	TYR	X	445	50.041	33.227	34.905	0.00	0.00
ATOM	6703	HB3	TYR	X	445	49.811	33.395	33.152	0.00	0.00
ATOM	6704	CG	TYR	X	445	50.696	35.124	34.115	0.00	0.00
ATOM	6705	CD1	TYR	X	445	51.419	35.352	32.917	0.00	0.00
ATOM	6706	HD1	TYR	X	445	51.247	34.652	32.112	0.00	0.00
ATOM	6707	CE1	TYR	X	445	52.411	36.340	32.880	0.00	0.00
ATOM	6708	HE1	TYR	X	445	53.012	36.521	32.001	0.00	0.00
ATOM	6709	CZ	TYR	X	445	52.602	37.181	34.035	0.00	0.00
ATOM	6710	OH	TYR	X	445	53.546	38.138	33.930	0.00	0.00
ATOM	6711	HH	TYR	X	445	53.861	38.299	33.038	0.00	0.00

ATOM	6712	CE2	TYR	X	445	51.901	36.921	35.222	0.00	0.00
ATOM	6713	HE2	TYR	X	445	52.030	37.484	36.135	0.00	0.00
ATOM	6714	CD2	TYR	X	445	50.978	35.849	35.256	0.00	0.00
ATOM	6715	HD2	TYR	X	445	50.410	35.672	36.158	0.00	0.00
ATOM	6716	C	TYR	X	445	47.351	33.184	33.705	0.00	0.00
ATOM	6717	O	TYR	X	445	47.522	32.690	32.656	0.00	0.00
ATOM	6718	N	GLU	X	446	46.286	32.776	34.472	0.00	0.00
ATOM	6719	H	GLU	X	446	46.145	33.164	35.394	0.00	0.00
ATOM	6720	CA	GLU	X	446	45.157	31.995	33.907	0.00	0.00
ATOM	6721	HA	GLU	X	446	45.568	31.220	33.260	0.00	0.00
ATOM	6722	CB	GLU	X	446	44.417	31.189	35.026	0.00	0.00
ATOM	6723	HB2	GLU	X	446	44.040	30.343	34.452	0.00	0.00
ATOM	6724	HB3	GLU	X	446	45.120	30.945	35.823	0.00	0.00
ATOM	6725	CG	GLU	X	446	43.291	31.898	35.825	0.00	0.00
ATOM	6726	HG2	GLU	X	446	42.615	32.208	35.028	0.00	0.00
ATOM	6727	HG3	GLU	X	446	42.848	31.187	36.523	0.00	0.00
ATOM	6728	CD	GLU	X	446	43.653	33.105	36.666	0.00	0.00
ATOM	6729	OE1	GLU	X	446	44.718	33.664	36.333	0.00	0.00
ATOM	6730	OE2	GLU	X	446	42.869	33.467	37.585	0.00	0.00
ATOM	6731	C	GLU	X	446	44.163	32.653	33.013	0.00	0.00
ATOM	6732	O	GLU	X	446	43.460	32.033	32.213	0.00	0.00
ATOM	6733	N	ILE	X	447	44.083	33.969	33.092	0.00	0.00
ATOM	6734	H	ILE	X	447	44.588	34.401	33.853	0.00	0.00
ATOM	6735	CA	ILE	X	447	43.229	34.843	32.269	0.00	0.00
ATOM	6736	HA	ILE	X	447	42.220	34.715	32.662	0.00	0.00
ATOM	6737	CB	ILE	X	447	43.501	36.370	32.653	0.00	0.00
ATOM	6738	HB	ILE	X	447	42.981	37.053	31.981	0.00	0.00
ATOM	6739	CG2	ILE	X	447	43.010	36.716	34.062	0.00	0.00
ATOM	6740	HG21	ILE	X	447	43.617	36.172	34.786	0.00	0.00
ATOM	6741	HG22	ILE	X	447	41.975	36.415	34.224	0.00	0.00
ATOM	6742	HG23	ILE	X	447	43.126	37.770	34.316	0.00	0.00
ATOM	6743	CG1	ILE	X	447	45.024	36.720	32.398	0.00	0.00
ATOM	6744	HG12	ILE	X	447	45.654	36.121	33.056	0.00	0.00
ATOM	6745	HG13	ILE	X	447	45.173	36.581	31.328	0.00	0.00
ATOM	6746	CD1	ILE	X	447	45.403	38.219	32.726	0.00	0.00
ATOM	6747	HD11	ILE	X	447	44.827	38.988	32.210	0.00	0.00
ATOM	6748	HD12	ILE	X	447	46.373	38.368	32.252	0.00	0.00
ATOM	6749	HD13	ILE	X	447	45.458	38.311	33.811	0.00	0.00
ATOM	6750	C	ILE	X	447	43.210	34.507	30.743	0.00	0.00
ATOM	6751	O	ILE	X	447	42.153	34.491	30.145	0.00	0.00
ATOM	6752	N	GLU	X	448	44.356	34.079	30.242	0.00	0.00
ATOM	6753	H	GLU	X	448	45.110	34.223	30.898	0.00	0.00
ATOM	6754	CA	GLU	X	448	44.551	33.603	28.875	0.00	0.00
ATOM	6755	HA	GLU	X	448	44.441	34.488	28.249	0.00	0.00
ATOM	6756	CB	GLU	X	448	45.946	33.008	28.787	0.00	0.00
ATOM	6757	HB2	GLU	X	448	46.020	32.107	29.396	0.00	0.00
ATOM	6758	HB3	GLU	X	448	46.075	32.704	27.748	0.00	0.00
ATOM	6759	CG	GLU	X	448	47.028	34.055	29.089	0.00	0.00
ATOM	6760	HG2	GLU	X	448	46.818	34.999	28.586	0.00	0.00
ATOM	6761	HG3	GLU	X	448	47.038	34.291	30.153	0.00	0.00
ATOM	6762	CD	GLU	X	448	48.484	33.497	28.841	0.00	0.00
ATOM	6763	OE1	GLU	X	448	49.417	34.329	28.828	0.00	0.00
ATOM	6764	OE2	GLU	X	448	48.563	32.336	28.449	0.00	0.00
ATOM	6765	C	GLU	X	448	43.499	32.453	28.482	0.00	0.00
ATOM	6766	O	GLU	X	448	42.928	32.626	27.396	0.00	0.00
ATOM	6767	N	PHE	X	449	43.171	31.483	29.353	0.00	0.00
ATOM	6768	H	PHE	X	449	43.511	31.584	30.298	0.00	0.00
ATOM	6769	CA	PHE	X	449	42.196	30.380	29.131	0.00	0.00
ATOM	6770	HA	PHE	X	449	42.264	30.081	28.085	0.00	0.00
ATOM	6771	CB	PHE	X	449	42.438	29.213	30.139	0.00	0.00
ATOM	6772	HB2	PHE	X	449	42.449	29.633	31.145	0.00	0.00
ATOM	6773	HB3	PHE	X	449	41.534	28.606	30.089	0.00	0.00
ATOM	6774	CG	PHE	X	449	43.686	28.528	29.781	0.00	0.00
ATOM	6775	CD1	PHE	X	449	44.896	28.968	30.333	0.00	0.00
ATOM	6776	HD1	PHE	X	449	44.793	29.618	31.189	0.00	0.00
ATOM	6777	CE1	PHE	X	449	46.171	28.509	29.863	0.00	0.00
ATOM	6778	HE1	PHE	X	449	47.085	28.913	30.273	0.00	0.00

ATOM	6779	CZ	PHE	X	449	46.263	27.552	28.818	0.00	0.00
ATOM	6780	HZ	PHE	X	449	47.215	27.135	28.524	0.00	0.00
ATOM	6781	CE2	PHE	X	449	45.045	27.149	28.215	0.00	0.00
ATOM	6782	HE2	PHE	X	449	45.206	26.545	27.334	0.00	0.00
ATOM	6783	CD2	PHE	X	449	43.760	27.577	28.700	0.00	0.00
ATOM	6784	HD2	PHE	X	449	42.816	27.283	28.265	0.00	0.00
ATOM	6785	C	PHE	X	449	40.776	30.909	29.263	0.00	0.00
ATOM	6786	O	PHE	X	449	39.914	30.192	28.722	0.00	0.00
ATOM	6787	N	ILE	X	450	40.533	32.039	29.947	0.00	0.00
ATOM	6788	H	ILE	X	450	41.311	32.549	30.341	0.00	0.00
ATOM	6789	CA	ILE	X	450	39.190	32.630	29.980	0.00	0.00
ATOM	6790	HA	ILE	X	450	38.435	31.852	29.864	0.00	0.00
ATOM	6791	CB	ILE	X	450	39.017	33.372	31.387	0.00	0.00
ATOM	6792	HB	ILE	X	450	39.411	34.376	31.227	0.00	0.00
ATOM	6793	CG2	ILE	X	450	37.515	33.446	31.564	0.00	0.00
ATOM	6794	HG21	ILE	X	450	36.993	33.964	30.759	0.00	0.00
ATOM	6795	HG22	ILE	X	450	37.161	33.882	32.498	0.00	0.00
ATOM	6796	HG23	ILE	X	450	37.052	32.460	31.616	0.00	0.00
ATOM	6797	CG1	ILE	X	450	39.639	32.845	32.747	0.00	0.00
ATOM	6798	HG12	ILE	X	450	40.582	33.364	32.920	0.00	0.00
ATOM	6799	HG13	ILE	X	450	39.036	33.196	33.585	0.00	0.00
ATOM	6800	CD1	ILE	X	450	39.747	31.331	33.006	0.00	0.00
ATOM	6801	HD11	ILE	X	450	40.415	30.786	32.339	0.00	0.00
ATOM	6802	HD12	ILE	X	450	38.814	30.767	32.989	0.00	0.00
ATOM	6803	HD13	ILE	X	450	40.246	31.223	33.968	0.00	0.00
ATOM	6804	C	ILE	X	450	38.928	33.550	28.783	0.00	0.00
ATOM	6805	O	ILE	X	450	37.841	33.501	28.210	0.00	0.00
ATOM	6806	N	PHE	X	451	39.851	34.388	28.372	0.00	0.00
ATOM	6807	H	PHE	X	451	40.734	34.382	28.863	0.00	0.00
ATOM	6808	CA	PHE	X	451	39.740	35.211	27.199	0.00	0.00
ATOM	6809	HA	PHE	X	451	38.679	35.458	27.222	0.00	0.00
ATOM	6810	CB	PHE	X	451	40.653	36.469	27.326	0.00	0.00
ATOM	6811	HB2	PHE	X	451	41.651	36.311	27.735	0.00	0.00
ATOM	6812	HB3	PHE	X	451	40.703	36.926	26.338	0.00	0.00
ATOM	6813	CG	PHE	X	451	40.043	37.752	28.059	0.00	0.00
ATOM	6814	CD1	PHE	X	451	40.604	38.095	29.350	0.00	0.00
ATOM	6815	HD1	PHE	X	451	41.324	37.424	29.796	0.00	0.00
ATOM	6816	CE1	PHE	X	451	40.240	39.302	29.943	0.00	0.00
ATOM	6817	HE1	PHE	X	451	40.696	39.600	30.876	0.00	0.00
ATOM	6818	CZ	PHE	X	451	39.303	40.081	29.366	0.00	0.00
ATOM	6819	HZ	PHE	X	451	38.923	40.957	29.870	0.00	0.00
ATOM	6820	CE2	PHE	X	451	38.809	39.817	28.037	0.00	0.00
ATOM	6821	HE2	PHE	X	451	38.118	40.531	27.615	0.00	0.00
ATOM	6822	CD2	PHE	X	451	39.162	38.657	27.382	0.00	0.00
ATOM	6823	HD2	PHE	X	451	38.834	38.448	26.375	0.00	0.00
ATOM	6824	C	PHE	X	451	39.938	34.433	25.867	0.00	0.00
ATOM	6825	O	PHE	X	451	39.825	35.017	24.804	0.00	0.00
ATOM	6826	N	GLY	X	452	40.209	33.153	25.915	0.00	0.00
ATOM	6827	H	GLY	X	452	40.373	32.708	26.807	0.00	0.00
ATOM	6828	CA	GLY	X	452	40.393	32.305	24.737	0.00	0.00
ATOM	6829	HA2	GLY	X	452	40.410	31.253	25.021	0.00	0.00
ATOM	6830	HA3	GLY	X	452	39.547	32.334	24.050	0.00	0.00
ATOM	6831	C	GLY	X	452	41.553	32.675	23.911	0.00	0.00
ATOM	6832	O	GLY	X	452	41.521	32.563	22.679	0.00	0.00
ATOM	6833	N	ILE	X	453	42.580	33.253	24.546	0.00	0.00
ATOM	6834	H	ILE	X	453	42.543	33.206	25.554	0.00	0.00
ATOM	6835	CA	ILE	X	453	43.959	33.537	23.956	0.00	0.00
ATOM	6836	HA	ILE	X	453	43.976	34.279	23.158	0.00	0.00
ATOM	6837	CB	ILE	X	453	44.929	34.097	24.992	0.00	0.00
ATOM	6838	HB	ILE	X	453	45.036	33.373	25.800	0.00	0.00
ATOM	6839	CG2	ILE	X	453	46.350	34.481	24.361	0.00	0.00
ATOM	6840	HG21	ILE	X	453	46.998	35.045	25.031	0.00	0.00
ATOM	6841	HG22	ILE	X	453	46.170	35.031	23.437	0.00	0.00
ATOM	6842	HG23	ILE	X	453	46.759	33.513	24.070	0.00	0.00
ATOM	6843	CG1	ILE	X	453	44.362	35.334	25.741	0.00	0.00
ATOM	6844	HG12	ILE	X	453	43.428	35.014	26.204	0.00	0.00
ATOM	6845	HG13	ILE	X	453	44.966	35.560	26.620	0.00	0.00

ATOM	6846	CD1	ILE	X	453	43.996	36.559	24.797	0.00	0.00
ATOM	6847	HD11	ILE	X	453	43.668	37.387	25.425	0.00	0.00
ATOM	6848	HD12	ILE	X	453	43.387	36.237	23.952	0.00	0.00
ATOM	6849	HD13	ILE	X	453	44.886	36.924	24.286	0.00	0.00
ATOM	6850	C	ILE	X	453	44.467	32.279	23.251	0.00	0.00
ATOM	6851	O	ILE	X	453	44.933	32.394	22.110	0.00	0.00
ATOM	6852	N	PRO	X	454	44.423	31.061	23.780	0.00	0.00
ATOM	6853	CD	PRO	X	454	44.101	30.679	25.141	0.00	0.00
ATOM	6854	HD2	PRO	X	454	43.018	30.652	25.256	0.00	0.00
ATOM	6855	HD3	PRO	X	454	44.452	31.288	25.974	0.00	0.00
ATOM	6856	CG	PRO	X	454	44.611	29.280	25.316	0.00	0.00
ATOM	6857	HG2	PRO	X	454	44.046	28.754	26.086	0.00	0.00
ATOM	6858	HG3	PRO	X	454	45.669	29.295	25.576	0.00	0.00
ATOM	6859	CB	PRO	X	454	44.302	28.766	23.886	0.00	0.00
ATOM	6860	HB2	PRO	X	454	43.237	28.585	23.741	0.00	0.00
ATOM	6861	HB3	PRO	X	454	44.850	27.848	23.672	0.00	0.00
ATOM	6862	CA	PRO	X	454	44.722	29.866	23.007	0.00	0.00
ATOM	6863	HA	PRO	X	454	45.806	29.785	22.936	0.00	0.00
ATOM	6864	C	PRO	X	454	44.073	29.790	21.665	0.00	0.00
ATOM	6865	O	PRO	X	454	44.473	29.029	20.790	0.00	0.00
ATOM	6866	N	LEU	X	455	42.893	30.483	21.419	0.00	0.00
ATOM	6867	H	LEU	X	455	42.540	31.150	22.089	0.00	0.00
ATOM	6868	CA	LEU	X	455	42.112	30.317	20.183	0.00	0.00
ATOM	6869	HA	LEU	X	455	42.158	29.275	19.868	0.00	0.00
ATOM	6870	CB	LEU	X	455	40.569	30.544	20.435	0.00	0.00
ATOM	6871	HB2	LEU	X	455	40.342	31.593	20.623	0.00	0.00
ATOM	6872	HB3	LEU	X	455	39.937	30.363	19.566	0.00	0.00
ATOM	6873	CG	LEU	X	455	39.836	29.692	21.604	0.00	0.00
ATOM	6874	HG	LEU	X	455	40.260	29.868	22.593	0.00	0.00
ATOM	6875	CD1	LEU	X	455	38.321	29.884	21.615	0.00	0.00
ATOM	6876	HD11	LEU	X	455	38.003	30.925	21.578	0.00	0.00
ATOM	6877	HD12	LEU	X	455	37.851	29.372	22.455	0.00	0.00
ATOM	6878	HD13	LEU	X	455	37.907	29.477	20.693	0.00	0.00
ATOM	6879	CD2	LEU	X	455	40.077	28.186	21.428	0.00	0.00
ATOM	6880	HD21	LEU	X	455	39.423	27.683	20.716	0.00	0.00
ATOM	6881	HD22	LEU	X	455	41.109	27.951	21.169	0.00	0.00
ATOM	6882	HD23	LEU	X	455	40.062	27.696	22.401	0.00	0.00
ATOM	6883	C	LEU	X	455	42.649	31.141	18.978	0.00	0.00
ATOM	6884	O	LEU	X	455	42.388	30.908	17.770	0.00	0.00
ATOM	6885	N	ASP	X	456	43.506	32.063	19.279	0.00	0.00
ATOM	6886	H	ASP	X	456	43.886	31.983	20.211	0.00	0.00
ATOM	6887	CA	ASP	X	456	44.264	33.043	18.415	0.00	0.00
ATOM	6888	HA	ASP	X	456	43.542	33.718	17.955	0.00	0.00
ATOM	6889	CB	ASP	X	456	45.029	34.040	19.253	0.00	0.00
ATOM	6890	HB2	ASP	X	456	44.365	34.467	20.005	0.00	0.00
ATOM	6891	HB3	ASP	X	456	45.688	33.543	19.966	0.00	0.00
ATOM	6892	CG	ASP	X	456	45.784	35.109	18.509	0.00	0.00
ATOM	6893	OD1	ASP	X	456	45.813	36.255	19.064	0.00	0.00
ATOM	6894	OD2	ASP	X	456	46.404	34.866	17.451	0.00	0.00
ATOM	6895	C	ASP	X	456	45.124	32.269	17.339	0.00	0.00
ATOM	6896	O	ASP	X	456	46.069	31.535	17.627	0.00	0.00
ATOM	6897	N	PRO	X	457	44.881	32.433	15.967	0.00	0.00
ATOM	6898	CD	PRO	X	457	44.024	33.482	15.322	0.00	0.00
ATOM	6899	HD2	PRO	X	457	44.151	34.469	15.767	0.00	0.00
ATOM	6900	HD3	PRO	X	457	43.017	33.075	15.413	0.00	0.00
ATOM	6901	CG	PRO	X	457	44.429	33.545	13.893	0.00	0.00
ATOM	6902	HG2	PRO	X	457	45.100	34.369	13.653	0.00	0.00
ATOM	6903	HG3	PRO	X	457	43.504	33.760	13.358	0.00	0.00
ATOM	6904	CB	PRO	X	457	44.926	32.152	13.653	0.00	0.00
ATOM	6905	HB2	PRO	X	457	45.605	32.053	12.807	0.00	0.00
ATOM	6906	HB3	PRO	X	457	44.093	31.481	13.444	0.00	0.00
ATOM	6907	CA	PRO	X	457	45.655	31.754	14.958	0.00	0.00
ATOM	6908	HA	PRO	X	457	45.641	30.671	15.075	0.00	0.00
ATOM	6909	C	PRO	X	457	47.128	32.185	14.896	0.00	0.00
ATOM	6910	O	PRO	X	457	47.935	31.577	14.164	0.00	0.00
ATOM	6911	N	SER	X	458	47.566	33.277	15.499	0.00	0.00
ATOM	6912	H	SER	X	458	46.902	33.859	15.989	0.00	0.00

ATOM	6913	CA	SER	X	458	48.918	33.756	15.314	0.00	0.00
ATOM	6914	HA	SER	X	458	49.337	33.435	14.360	0.00	0.00
ATOM	6915	CB	SER	X	458	49.076	35.267	15.311	0.00	0.00
ATOM	6916	HB2	SER	X	458	50.066	35.522	14.931	0.00	0.00
ATOM	6917	HB3	SER	X	458	48.406	35.751	14.600	0.00	0.00
ATOM	6918	OG	SER	X	458	48.850	35.893	16.594	0.00	0.00
ATOM	6919	HG	SER	X	458	47.930	35.749	16.827	0.00	0.00
ATOM	6920	C	SER	X	458	49.854	33.224	16.434	0.00	0.00
ATOM	6921	O	SER	X	458	51.078	33.233	16.219	0.00	0.00
ATOM	6922	N	ARG	X	459	49.320	32.768	17.626	0.00	0.00
ATOM	6923	H	ARG	X	459	48.327	32.584	17.660	0.00	0.00
ATOM	6924	CA	ARG	X	459	50.092	32.341	18.756	0.00	0.00
ATOM	6925	HA	ARG	X	459	51.061	32.839	18.724	0.00	0.00
ATOM	6926	CB	ARG	X	459	49.283	32.792	19.980	0.00	0.00
ATOM	6927	HB2	ARG	X	459	48.342	32.294	19.748	0.00	0.00
ATOM	6928	HB3	ARG	X	459	49.643	32.229	20.841	0.00	0.00
ATOM	6929	CG	ARG	X	459	49.112	34.332	20.118	0.00	0.00
ATOM	6930	HG2	ARG	X	459	50.114	34.759	20.066	0.00	0.00
ATOM	6931	HG3	ARG	X	459	48.424	34.764	19.392	0.00	0.00
ATOM	6932	CD	ARG	X	459	48.482	34.626	21.481	0.00	0.00
ATOM	6933	HD2	ARG	X	459	47.456	34.268	21.566	0.00	0.00
ATOM	6934	HD3	ARG	X	459	49.006	34.173	22.323	0.00	0.00
ATOM	6935	NE	ARG	X	459	48.307	36.061	21.607	0.00	0.00
ATOM	6936	HE	ARG	X	459	47.337	36.264	21.413	0.00	0.00
ATOM	6937	CZ	ARG	X	459	49.125	36.997	22.040	0.00	0.00
ATOM	6938	NH1	ARG	X	459	50.351	36.832	22.414	0.00	0.00
ATOM	6939	HH11	ARG	X	459	50.731	35.897	22.393	0.00	0.00
ATOM	6940	HH12	ARG	X	459	50.890	37.542	22.888	0.00	0.00
ATOM	6941	NH2	ARG	X	459	48.655	38.209	22.068	0.00	0.00
ATOM	6942	HH21	ARG	X	459	47.663	38.291	21.899	0.00	0.00
ATOM	6943	HH22	ARG	X	459	49.277	38.948	22.364	0.00	0.00
ATOM	6944	C	ARG	X	459	50.400	30.806	18.635	0.00	0.00
ATOM	6945	O	ARG	X	459	50.106	30.114	17.649	0.00	0.00
ATOM	6946	N	ASN	X	460	51.097	30.279	19.684	0.00	0.00
ATOM	6947	H	ASN	X	460	51.327	30.860	20.478	0.00	0.00
ATOM	6948	CA	ASN	X	460	51.832	29.031	19.680	0.00	0.00
ATOM	6949	HA	ASN	X	460	51.745	28.754	18.629	0.00	0.00
ATOM	6950	CB	ASN	X	460	53.340	29.239	20.007	0.00	0.00
ATOM	6951	HB2	ASN	X	460	53.624	30.026	19.309	0.00	0.00
ATOM	6952	HB3	ASN	X	460	53.487	29.574	21.034	0.00	0.00
ATOM	6953	CG	ASN	X	460	54.236	28.007	19.679	0.00	0.00
ATOM	6954	OD1	ASN	X	460	53.818	27.140	18.880	0.00	0.00
ATOM	6955	ND2	ASN	X	460	55.395	27.857	20.249	0.00	0.00
ATOM	6956	HD21	ASN	X	460	55.786	26.940	20.091	0.00	0.00
ATOM	6957	HD22	ASN	X	460	55.693	28.490	20.978	0.00	0.00
ATOM	6958	C	ASN	X	460	51.135	27.995	20.643	0.00	0.00
ATOM	6959	O	ASN	X	460	51.797	27.026	21.132	0.00	0.00
ATOM	6960	N	TYR	X	461	49.892	28.140	21.199	0.00	0.00
ATOM	6961	H	TYR	X	461	49.278	28.870	20.864	0.00	0.00
ATOM	6962	CA	TYR	X	461	49.230	27.176	22.104	0.00	0.00
ATOM	6963	HA	TYR	X	461	49.937	26.888	22.883	0.00	0.00
ATOM	6964	CB	TYR	X	461	47.979	27.686	22.835	0.00	0.00
ATOM	6965	HB2	TYR	X	461	47.243	27.913	22.063	0.00	0.00
ATOM	6966	HB3	TYR	X	461	47.688	26.827	23.439	0.00	0.00
ATOM	6967	CG	TYR	X	461	48.300	28.864	23.700	0.00	0.00
ATOM	6968	CD1	TYR	X	461	48.272	30.134	23.031	0.00	0.00
ATOM	6969	HD1	TYR	X	461	48.000	30.259	21.993	0.00	0.00
ATOM	6970	CE1	TYR	X	461	48.470	31.292	23.732	0.00	0.00
ATOM	6971	HE1	TYR	X	461	48.357	32.224	23.197	0.00	0.00
ATOM	6972	CZ	TYR	X	461	48.692	31.247	25.088	0.00	0.00
ATOM	6973	OH	TYR	X	461	48.923	32.432	25.705	0.00	0.00
ATOM	6974	HH	TYR	X	461	48.857	32.368	26.660	0.00	0.00
ATOM	6975	CE2	TYR	X	461	48.547	30.027	25.832	0.00	0.00
ATOM	6976	HE2	TYR	X	461	48.641	29.916	26.902	0.00	0.00
ATOM	6977	CD2	TYR	X	461	48.393	28.796	25.114	0.00	0.00
ATOM	6978	HD2	TYR	X	461	48.356	27.850	25.634	0.00	0.00
ATOM	6979	C	TYR	X	461	48.759	25.868	21.392	0.00	0.00

ATOM	6980	O	TYR	X	461	48.392	25.897	20.214	0.00	0.00
ATOM	6981	N	THR	X	462	48.909	24.744	22.030	0.00	0.00
ATOM	6982	H	THR	X	462	49.309	24.767	22.957	0.00	0.00
ATOM	6983	CA	THR	X	462	48.641	23.384	21.405	0.00	0.00
ATOM	6984	HA	THR	X	462	48.854	23.454	20.338	0.00	0.00
ATOM	6985	CB	THR	X	462	49.571	22.334	22.021	0.00	0.00
ATOM	6986	HB	THR	X	462	49.290	21.329	21.707	0.00	0.00
ATOM	6987	CG2	THR	X	462	51.081	22.617	21.769	0.00	0.00
ATOM	6988	HG21	THR	X	462	51.501	22.783	22.761	0.00	0.00
ATOM	6989	HG22	THR	X	462	51.171	23.534	21.188	0.00	0.00
ATOM	6990	HG23	THR	X	462	51.612	21.829	21.235	0.00	0.00
ATOM	6991	OG1	THR	X	462	49.497	22.342	23.410	0.00	0.00
ATOM	6992	HG1	THR	X	462	49.417	23.255	23.696	0.00	0.00
ATOM	6993	C	THR	X	462	47.156	22.916	21.589	0.00	0.00
ATOM	6994	O	THR	X	462	46.428	23.502	22.424	0.00	0.00
ATOM	6995	N	ALA	X	463	46.681	22.016	20.780	0.00	0.00
ATOM	6996	H	ALA	X	463	47.266	21.496	20.141	0.00	0.00
ATOM	6997	CA	ALA	X	463	45.231	21.770	20.596	0.00	0.00
ATOM	6998	HA	ALA	X	463	44.767	22.723	20.339	0.00	0.00
ATOM	6999	CB	ALA	X	463	45.024	20.812	19.451	0.00	0.00
ATOM	7000	HB1	ALA	X	463	43.984	20.715	19.137	0.00	0.00
ATOM	7001	HB2	ALA	X	463	45.387	19.810	19.677	0.00	0.00
ATOM	7002	HB3	ALA	X	463	45.542	21.127	18.545	0.00	0.00
ATOM	7003	C	ALA	X	463	44.469	21.283	21.850	0.00	0.00
ATOM	7004	O	ALA	X	463	43.269	21.600	22.086	0.00	0.00
ATOM	7005	N	GLU	X	464	45.186	20.552	22.722	0.00	0.00
ATOM	7006	H	GLU	X	464	46.105	20.202	22.491	0.00	0.00
ATOM	7007	CA	GLU	X	464	44.683	20.145	24.025	0.00	0.00
ATOM	7008	HA	GLU	X	464	43.680	19.742	23.884	0.00	0.00
ATOM	7009	CB	GLU	X	464	45.575	19.068	24.674	0.00	0.00
ATOM	7010	HB2	GLU	X	464	45.064	18.611	25.522	0.00	0.00
ATOM	7011	HB3	GLU	X	464	45.603	18.253	23.950	0.00	0.00
ATOM	7012	CG	GLU	X	464	46.944	19.529	25.104	0.00	0.00
ATOM	7013	HG2	GLU	X	464	47.382	20.363	24.555	0.00	0.00
ATOM	7014	HG3	GLU	X	464	46.858	20.017	26.074	0.00	0.00
ATOM	7015	CD	GLU	X	464	47.963	18.314	25.125	0.00	0.00
ATOM	7016	OE1	GLU	X	464	47.680	17.381	25.889	0.00	0.00
ATOM	7017	OE2	GLU	X	464	49.015	18.325	24.376	0.00	0.00
ATOM	7018	C	GLU	X	464	44.636	21.306	25.055	0.00	0.00
ATOM	7019	O	GLU	X	464	43.935	21.182	26.045	0.00	0.00
ATOM	7020	N	GLU	X	465	45.335	22.426	24.762	0.00	0.00
ATOM	7021	H	GLU	X	465	45.896	22.408	23.922	0.00	0.00
ATOM	7022	CA	GLU	X	465	45.261	23.684	25.452	0.00	0.00
ATOM	7023	HA	GLU	X	465	45.037	23.477	26.499	0.00	0.00
ATOM	7024	CB	GLU	X	465	46.564	24.486	25.411	0.00	0.00
ATOM	7025	HB2	GLU	X	465	46.845	24.789	24.403	0.00	0.00
ATOM	7026	HB3	GLU	X	465	46.398	25.476	25.836	0.00	0.00
ATOM	7027	CG	GLU	X	465	47.738	23.797	26.066	0.00	0.00
ATOM	7028	HG2	GLU	X	465	47.540	23.910	27.132	0.00	0.00
ATOM	7029	HG3	GLU	X	465	47.680	22.755	25.752	0.00	0.00
ATOM	7030	CD	GLU	X	465	49.064	24.487	25.906	0.00	0.00
ATOM	7031	OE1	GLU	X	465	49.490	24.685	24.749	0.00	0.00
ATOM	7032	OE2	GLU	X	465	49.805	24.680	26.916	0.00	0.00
ATOM	7033	C	GLU	X	465	44.073	24.562	24.895	0.00	0.00
ATOM	7034	O	GLU	X	465	43.524	25.365	25.630	0.00	0.00
ATOM	7035	N	LYS	X	466	43.647	24.365	23.622	0.00	0.00
ATOM	7036	H	LYS	X	466	43.964	23.540	23.133	0.00	0.00
ATOM	7037	CA	LYS	X	466	42.501	25.136	23.013	0.00	0.00
ATOM	7038	HA	LYS	X	466	42.440	26.140	23.431	0.00	0.00
ATOM	7039	CB	LYS	X	466	42.781	25.060	21.536	0.00	0.00
ATOM	7040	HB2	LYS	X	466	42.846	23.998	21.300	0.00	0.00
ATOM	7041	HB3	LYS	X	466	41.869	25.525	21.159	0.00	0.00
ATOM	7042	CG	LYS	X	466	44.067	25.667	21.052	0.00	0.00
ATOM	7043	HG2	LYS	X	466	44.150	26.640	21.538	0.00	0.00
ATOM	7044	HG3	LYS	X	466	44.931	25.077	21.357	0.00	0.00
ATOM	7045	CD	LYS	X	466	44.131	25.743	19.552	0.00	0.00
ATOM	7046	HD2	LYS	X	466	44.043	24.698	19.255	0.00	0.00

ATOM	7047	HD3	LYS	X	466	43.344	26.402	19.184	0.00	0.00
ATOM	7048	CE	LYS	X	466	45.548	26.217	19.149	0.00	0.00
ATOM	7049	HE2	LYS	X	466	46.007	26.909	19.855	0.00	0.00
ATOM	7050	HE3	LYS	X	466	46.152	25.309	19.136	0.00	0.00
ATOM	7051	NZ	LYS	X	466	45.632	26.909	17.835	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	46.598	27.094	17.603	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	45.114	26.473	17.086	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	45.412	27.894	17.869	0.00	0.00
ATOM	7055	C	LYS	X	466	41.144	24.471	23.468	0.00	0.00
ATOM	7056	O	LYS	X	466	40.209	25.125	23.973	0.00	0.00
ATOM	7057	N	ILE	X	467	41.067	23.168	23.572	0.00	0.00
ATOM	7058	H	ILE	X	467	41.849	22.631	23.225	0.00	0.00
ATOM	7059	CA	ILE	X	467	39.892	22.402	24.103	0.00	0.00
ATOM	7060	HA	ILE	X	467	38.979	22.823	23.681	0.00	0.00
ATOM	7061	CB	ILE	X	467	39.978	20.909	23.730	0.00	0.00
ATOM	7062	HB	ILE	X	467	40.370	20.810	22.718	0.00	0.00
ATOM	7063	CG2	ILE	X	467	40.897	20.065	24.597	0.00	0.00
ATOM	7064	HG21	ILE	X	467	41.005	19.103	24.096	0.00	0.00
ATOM	7065	HG22	ILE	X	467	40.455	19.918	25.582	0.00	0.00
ATOM	7066	HG23	ILE	X	467	41.919	20.441	24.653	0.00	0.00
ATOM	7067	CG1	ILE	X	467	38.540	20.259	23.812	0.00	0.00
ATOM	7068	HG12	ILE	X	467	38.291	20.097	24.861	0.00	0.00
ATOM	7069	HG13	ILE	X	467	37.813	20.913	23.331	0.00	0.00
ATOM	7070	CD1	ILE	X	467	38.419	18.876	23.085	0.00	0.00
ATOM	7071	HD11	ILE	X	467	37.425	18.431	23.122	0.00	0.00
ATOM	7072	HD12	ILE	X	467	39.065	18.099	23.493	0.00	0.00
ATOM	7073	HD13	ILE	X	467	38.553	19.151	22.038	0.00	0.00
ATOM	7074	C	ILE	X	467	39.656	22.752	25.618	0.00	0.00
ATOM	7075	O	ILE	X	467	38.506	23.077	25.947	0.00	0.00
ATOM	7076	N	PHE	X	468	40.790	22.737	26.403	0.00	0.00
ATOM	7077	H	PHE	X	468	41.686	22.422	26.059	0.00	0.00
ATOM	7078	CA	PHE	X	468	40.792	23.264	27.746	0.00	0.00
ATOM	7079	HA	PHE	X	468	40.217	22.586	28.377	0.00	0.00
ATOM	7080	CB	PHE	X	468	42.240	23.289	28.273	0.00	0.00
ATOM	7081	HB2	PHE	X	468	42.806	22.389	28.035	0.00	0.00
ATOM	7082	HB3	PHE	X	468	42.787	24.073	27.749	0.00	0.00
ATOM	7083	CG	PHE	X	468	42.296	23.624	29.724	0.00	0.00
ATOM	7084	CD1	PHE	X	468	41.532	23.045	30.731	0.00	0.00
ATOM	7085	HD1	PHE	X	468	40.803	22.282	30.500	0.00	0.00
ATOM	7086	CE1	PHE	X	468	41.634	23.492	32.045	0.00	0.00
ATOM	7087	HE1	PHE	X	468	41.102	22.966	32.824	0.00	0.00
ATOM	7088	CZ	PHE	X	468	42.707	24.377	32.440	0.00	0.00
ATOM	7089	HZ	PHE	X	468	42.812	24.596	33.493	0.00	0.00
ATOM	7090	CE2	PHE	X	468	43.498	24.960	31.454	0.00	0.00
ATOM	7091	HE2	PHE	X	468	44.357	25.553	31.733	0.00	0.00
ATOM	7092	CD2	PHE	X	468	43.277	24.559	30.114	0.00	0.00
ATOM	7093	HD2	PHE	X	468	43.993	25.012	29.444	0.00	0.00
ATOM	7094	C	PHE	X	468	40.240	24.654	27.895	0.00	0.00
ATOM	7095	O	PHE	X	468	39.355	24.898	28.750	0.00	0.00
ATOM	7096	N	ALA	X	469	40.667	25.596	27.023	0.00	0.00
ATOM	7097	H	ALA	X	469	41.455	25.253	26.492	0.00	0.00
ATOM	7098	CA	ALA	X	469	40.100	27.011	26.868	0.00	0.00
ATOM	7099	HA	ALA	X	469	40.402	27.631	27.712	0.00	0.00
ATOM	7100	CB	ALA	X	469	40.761	27.703	25.575	0.00	0.00
ATOM	7101	HB1	ALA	X	469	41.813	27.421	25.631	0.00	0.00
ATOM	7102	HB2	ALA	X	469	40.736	28.770	25.795	0.00	0.00
ATOM	7103	HB3	ALA	X	469	40.356	27.475	24.589	0.00	0.00
ATOM	7104	C	ALA	X	469	38.571	26.968	26.911	0.00	0.00
ATOM	7105	O	ALA	X	469	37.900	27.550	27.743	0.00	0.00
ATOM	7106	N	GLN	X	470	38.052	26.228	25.958	0.00	0.00
ATOM	7107	H	GLN	X	470	38.682	25.661	25.409	0.00	0.00
ATOM	7108	CA	GLN	X	470	36.623	26.141	25.769	0.00	0.00
ATOM	7109	HA	GLN	X	470	36.335	27.141	25.444	0.00	0.00
ATOM	7110	CB	GLN	X	470	36.269	25.247	24.605	0.00	0.00
ATOM	7111	HB2	GLN	X	470	36.588	24.253	24.918	0.00	0.00
ATOM	7112	HB3	GLN	X	470	35.198	25.111	24.454	0.00	0.00
ATOM	7113	CG	GLN	X	470	36.922	25.680	23.296	0.00	0.00

ATOM	7114	HG2	GLN	X	470	36.490	26.637	23.004	0.00	0.00
ATOM	7115	HG3	GLN	X	470	38.003	25.772	23.398	0.00	0.00
ATOM	7116	CD	GLN	X	470	36.749	24.681	22.199	0.00	0.00
ATOM	7117	OE1	GLN	X	470	37.395	23.658	22.093	0.00	0.00
ATOM	7118	NE2	GLN	X	470	35.800	24.985	21.313	0.00	0.00
ATOM	7119	HE21	GLN	X	470	35.554	24.237	20.681	0.00	0.00
ATOM	7120	HE22	GLN	X	470	35.155	25.705	21.605	0.00	0.00
ATOM	7121	C	GLN	X	470	35.900	25.775	27.049	0.00	0.00
ATOM	7122	O	GLN	X	470	34.813	26.325	27.285	0.00	0.00
ATOM	7123	N	ARG	X	471	36.479	24.957	27.953	0.00	0.00
ATOM	7124	H	ARG	X	471	37.417	24.662	27.724	0.00	0.00
ATOM	7125	CA	ARG	X	471	35.846	24.571	29.275	0.00	0.00
ATOM	7126	HA	ARG	X	471	34.809	24.316	29.053	0.00	0.00
ATOM	7127	CB	ARG	X	471	36.546	23.321	29.938	0.00	0.00
ATOM	7128	HB2	ARG	X	471	37.629	23.446	29.965	0.00	0.00
ATOM	7129	HB3	ARG	X	471	36.271	23.169	30.981	0.00	0.00
ATOM	7130	CG	ARG	X	471	36.255	22.036	29.208	0.00	0.00
ATOM	7131	HG2	ARG	X	471	35.184	21.849	29.282	0.00	0.00
ATOM	7132	HG3	ARG	X	471	36.499	22.258	28.169	0.00	0.00
ATOM	7133	CD	ARG	X	471	37.038	20.784	29.677	0.00	0.00
ATOM	7134	HD2	ARG	X	471	36.684	19.898	29.149	0.00	0.00
ATOM	7135	HD3	ARG	X	471	38.116	20.814	29.521	0.00	0.00
ATOM	7136	NE	ARG	X	471	36.691	20.530	31.120	0.00	0.00
ATOM	7137	HE	ARG	X	471	35.708	20.450	31.336	0.00	0.00
ATOM	7138	CZ	ARG	X	471	37.608	20.443	32.129	0.00	0.00
ATOM	7139	NH1	ARG	X	471	38.866	20.465	31.863	0.00	0.00
ATOM	7140	HH11	ARG	X	471	39.255	20.469	30.931	0.00	0.00
ATOM	7141	HH12	ARG	X	471	39.551	20.281	32.583	0.00	0.00
ATOM	7142	NH2	ARG	X	471	37.228	20.440	33.377	0.00	0.00
ATOM	7143	HH21	ARG	X	471	36.322	20.104	33.668	0.00	0.00
ATOM	7144	HH22	ARG	X	471	37.983	20.363	34.044	0.00	0.00
ATOM	7145	C	ARG	X	471	35.883	25.635	30.358	0.00	0.00
ATOM	7146	O	ARG	X	471	34.836	25.965	30.844	0.00	0.00
ATOM	7147	N	LEU	X	472	36.986	26.310	30.486	0.00	0.00
ATOM	7148	H	LEU	X	472	37.812	25.999	29.994	0.00	0.00
ATOM	7149	CA	LEU	X	472	37.109	27.437	31.402	0.00	0.00
ATOM	7150	HA	LEU	X	472	36.609	27.266	32.356	0.00	0.00
ATOM	7151	CB	LEU	X	472	38.595	27.764	31.614	0.00	0.00
ATOM	7152	HB2	LEU	X	472	39.246	27.541	30.769	0.00	0.00
ATOM	7153	HB3	LEU	X	472	38.626	28.807	31.931	0.00	0.00
ATOM	7154	CG	LEU	X	472	39.106	27.003	32.895	0.00	0.00
ATOM	7155	HG	LEU	X	472	38.506	27.337	33.742	0.00	0.00
ATOM	7156	CD1	LEU	X	472	39.022	25.548	32.692	0.00	0.00
ATOM	7157	HD11	LEU	X	472	39.440	25.138	33.611	0.00	0.00
ATOM	7158	HD12	LEU	X	472	39.486	25.229	31.759	0.00	0.00
ATOM	7159	HD13	LEU	X	472	37.981	25.227	32.701	0.00	0.00
ATOM	7160	CD2	LEU	X	472	40.563	27.459	33.138	0.00	0.00
ATOM	7161	HD21	LEU	X	472	40.556	28.546	33.219	0.00	0.00
ATOM	7162	HD22	LEU	X	472	40.845	27.015	34.094	0.00	0.00
ATOM	7163	HD23	LEU	X	472	41.202	27.117	32.324	0.00	0.00
ATOM	7164	C	LEU	X	472	36.183	28.630	30.945	0.00	0.00
ATOM	7165	O	LEU	X	472	35.362	29.085	31.727	0.00	0.00
ATOM	7166	N	MET	X	473	36.324	28.993	29.659	0.00	0.00
ATOM	7167	H	MET	X	473	37.036	28.526	29.116	0.00	0.00
ATOM	7168	CA	MET	X	473	35.270	29.815	29.020	0.00	0.00
ATOM	7169	HA	MET	X	473	35.306	30.823	29.432	0.00	0.00
ATOM	7170	CB	MET	X	473	35.460	29.779	27.473	0.00	0.00
ATOM	7171	HB2	MET	X	473	35.458	28.744	27.132	0.00	0.00
ATOM	7172	HB3	MET	X	473	34.727	30.409	26.968	0.00	0.00
ATOM	7173	CG	MET	X	473	36.849	30.416	27.062	0.00	0.00
ATOM	7174	HG2	MET	X	473	36.935	31.462	27.356	0.00	0.00
ATOM	7175	HG3	MET	X	473	37.719	30.033	27.595	0.00	0.00
ATOM	7176	SD	MET	X	473	37.237	30.072	25.294	0.00	0.00
ATOM	7177	CE	MET	X	473	36.549	31.615	24.816	0.00	0.00
ATOM	7178	HE1	MET	X	473	36.917	31.867	23.822	0.00	0.00
ATOM	7179	HE2	MET	X	473	35.461	31.607	24.892	0.00	0.00
ATOM	7180	HE3	MET	X	473	36.887	32.433	25.452	0.00	0.00

ATOM	7181	C	MET	X	473	33.847	29.354	29.386	0.00	0.00
ATOM	7182	O	MET	X	473	33.043	30.177	29.668	0.00	0.00
ATOM	7183	N	ARG	X	474	33.543	28.019	29.218	0.00	0.00
ATOM	7184	H	ARG	X	474	34.233	27.345	28.918	0.00	0.00
ATOM	7185	CA	ARG	X	474	32.184	27.545	29.475	0.00	0.00
ATOM	7186	HA	ARG	X	474	31.493	28.221	28.972	0.00	0.00
ATOM	7187	CB	ARG	X	474	31.905	26.127	28.816	0.00	0.00
ATOM	7188	HB2	ARG	X	474	32.236	26.166	27.778	0.00	0.00
ATOM	7189	HB3	ARG	X	474	32.526	25.389	29.324	0.00	0.00
ATOM	7190	CG	ARG	X	474	30.446	25.682	28.810	0.00	0.00
ATOM	7191	HG2	ARG	X	474	30.432	24.755	28.236	0.00	0.00
ATOM	7192	HG3	ARG	X	474	30.019	25.522	29.800	0.00	0.00
ATOM	7193	CD	ARG	X	474	29.573	26.672	28.037	0.00	0.00
ATOM	7194	HD2	ARG	X	474	29.396	27.661	28.460	0.00	0.00
ATOM	7195	HD3	ARG	X	474	29.966	26.736	27.022	0.00	0.00
ATOM	7196	NE	ARG	X	474	28.282	26.088	27.753	0.00	0.00
ATOM	7197	HE	ARG	X	474	27.995	25.318	28.340	0.00	0.00
ATOM	7198	CZ	ARG	X	474	27.405	26.463	26.830	0.00	0.00
ATOM	7199	NH1	ARG	X	474	27.531	27.524	26.059	0.00	0.00
ATOM	7200	HH11	ARG	X	474	28.275	28.175	26.268	0.00	0.00
ATOM	7201	HH12	ARG	X	474	26.794	27.640	25.379	0.00	0.00
ATOM	7202	NH2	ARG	X	474	26.323	25.808	26.670	0.00	0.00
ATOM	7203	HH21	ARG	X	474	26.280	24.924	27.157	0.00	0.00
ATOM	7204	HH22	ARG	X	474	25.634	26.098	25.990	0.00	0.00
ATOM	7205	C	ARG	X	474	31.734	27.644	30.859	0.00	0.00
ATOM	7206	O	ARG	X	474	30.610	28.042	31.099	0.00	0.00
ATOM	7207	N	TYR	X	475	32.624	27.423	31.828	0.00	0.00
ATOM	7208	H	TYR	X	475	33.502	27.029	31.520	0.00	0.00
ATOM	7209	CA	TYR	X	475	32.249	27.496	33.246	0.00	0.00
ATOM	7210	HA	TYR	X	475	31.356	26.913	33.473	0.00	0.00
ATOM	7211	CB	TYR	X	475	33.482	26.865	33.964	0.00	0.00
ATOM	7212	HB2	TYR	X	475	34.408	27.266	33.550	0.00	0.00
ATOM	7213	HB3	TYR	X	475	33.355	27.144	35.010	0.00	0.00
ATOM	7214	CG	TYR	X	475	33.626	25.348	33.956	0.00	0.00
ATOM	7215	CD1	TYR	X	475	32.553	24.464	33.886	0.00	0.00
ATOM	7216	HD1	TYR	X	475	31.529	24.807	33.909	0.00	0.00
ATOM	7217	CE1	TYR	X	475	32.767	23.080	33.783	0.00	0.00
ATOM	7218	HE1	TYR	X	475	31.922	22.408	33.809	0.00	0.00
ATOM	7219	CZ	TYR	X	475	34.057	22.575	33.769	0.00	0.00
ATOM	7220	OH	TYR	X	475	34.267	21.260	33.655	0.00	0.00
ATOM	7221	HH	TYR	X	475	33.432	20.790	33.721	0.00	0.00
ATOM	7222	CE2	TYR	X	475	35.162	23.454	33.800	0.00	0.00
ATOM	7223	HE2	TYR	X	475	36.159	23.095	33.592	0.00	0.00
ATOM	7224	CD2	TYR	X	475	34.970	24.812	33.898	0.00	0.00
ATOM	7225	HD2	TYR	X	475	35.788	25.513	33.821	0.00	0.00
ATOM	7226	C	TYR	X	475	32.018	28.975	33.752	0.00	0.00
ATOM	7227	O	TYR	X	475	31.100	29.195	34.585	0.00	0.00
ATOM	7228	N	TRP	X	476	32.758	30.021	33.209	0.00	0.00
ATOM	7229	H	TRP	X	476	33.397	29.745	32.478	0.00	0.00
ATOM	7230	CA	TRP	X	476	32.641	31.470	33.558	0.00	0.00
ATOM	7231	HA	TRP	X	476	32.551	31.614	34.635	0.00	0.00
ATOM	7232	CB	TRP	X	476	33.775	32.365	33.049	0.00	0.00
ATOM	7233	HB2	TRP	X	476	34.212	31.871	32.181	0.00	0.00
ATOM	7234	HB3	TRP	X	476	33.433	33.296	32.599	0.00	0.00
ATOM	7235	CG	TRP	X	476	34.795	32.666	34.061	0.00	0.00
ATOM	7236	CD1	TRP	X	476	35.372	33.896	34.373	0.00	0.00
ATOM	7237	HD1	TRP	X	476	35.013	34.805	33.913	0.00	0.00
ATOM	7238	NE1	TRP	X	476	36.298	33.743	35.395	0.00	0.00
ATOM	7239	HE1	TRP	X	476	36.910	34.480	35.717	0.00	0.00
ATOM	7240	CE2	TRP	X	476	36.557	32.429	35.621	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	37.472	31.825	36.469	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	38.132	32.462	37.038	0.00	0.00
ATOM	7243	CH2	TRP	X	476	37.475	30.439	36.610	0.00	0.00
ATOM	7244	HH2	TRP	X	476	38.190	30.027	37.306	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	36.601	29.679	35.778	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	36.676	28.608	35.898	0.00	0.00
ATOM	7247	CE3	TRP	X	476	35.644	30.304	34.978	0.00	0.00

ATOM	7248	HE3	TRP	X	476	34.969	29.642	34.456	0.00	0.00
ATOM	7249	CD2	TRP	X	476	35.615	31.675	34.771	0.00	0.00
ATOM	7250	C	TRP	X	476	31.315	31.969	33.026	0.00	0.00
ATOM	7251	O	TRP	X	476	30.566	32.600	33.754	0.00	0.00
ATOM	7252	N	ALA	X	477	31.069	31.754	31.745	0.00	0.00
ATOM	7253	H	ALA	X	477	31.783	31.264	31.226	0.00	0.00
ATOM	7254	CA	ALA	X	477	29.856	32.205	31.000	0.00	0.00
ATOM	7255	HA	ALA	X	477	29.664	33.277	31.040	0.00	0.00
ATOM	7256	CB	ALA	X	477	30.156	31.838	29.529	0.00	0.00
ATOM	7257	HB1	ALA	X	477	29.303	32.162	28.933	0.00	0.00
ATOM	7258	HB2	ALA	X	477	30.354	30.766	29.531	0.00	0.00
ATOM	7259	HB3	ALA	X	477	31.015	32.350	29.093	0.00	0.00
ATOM	7260	C	ALA	X	477	28.617	31.430	31.548	0.00	0.00
ATOM	7261	O	ALA	X	477	27.584	32.074	31.538	0.00	0.00
ATOM	7262	N	ASN	X	478	28.696	30.193	32.029	0.00	0.00
ATOM	7263	H	ASN	X	478	29.418	29.595	31.654	0.00	0.00
ATOM	7264	CA	ASN	X	478	27.638	29.584	32.891	0.00	0.00
ATOM	7265	HA	ASN	X	478	26.700	29.808	32.381	0.00	0.00
ATOM	7266	CB	ASN	X	478	27.844	28.059	32.926	0.00	0.00
ATOM	7267	HB2	ASN	X	478	28.831	27.884	33.354	0.00	0.00
ATOM	7268	HB3	ASN	X	478	27.097	27.696	33.632	0.00	0.00
ATOM	7269	CG	ASN	X	478	27.586	27.386	31.591	0.00	0.00
ATOM	7270	OD1	ASN	X	478	27.422	27.977	30.565	0.00	0.00
ATOM	7271	ND2	ASN	X	478	27.531	26.035	31.627	0.00	0.00
ATOM	7272	HD21	ASN	X	478	27.409	25.473	30.796	0.00	0.00
ATOM	7273	HD22	ASN	X	478	27.830	25.493	32.425	0.00	0.00
ATOM	7274	C	ASN	X	478	27.380	30.231	34.234	0.00	0.00
ATOM	7275	O	ASN	X	478	26.231	30.437	34.677	0.00	0.00
ATOM	7276	N	PHE	X	479	28.392	30.698	34.938	0.00	0.00
ATOM	7277	H	PHE	X	479	29.314	30.332	34.745	0.00	0.00
ATOM	7278	CA	PHE	X	479	28.246	31.579	36.025	0.00	0.00
ATOM	7279	HA	PHE	X	479	27.485	31.070	36.616	0.00	0.00
ATOM	7280	CB	PHE	X	479	29.609	31.687	36.741	0.00	0.00
ATOM	7281	HB2	PHE	X	479	29.895	30.694	37.088	0.00	0.00
ATOM	7282	HB3	PHE	X	479	30.334	32.016	35.996	0.00	0.00
ATOM	7283	CG	PHE	X	479	29.530	32.592	38.044	0.00	0.00
ATOM	7284	CD1	PHE	X	479	29.079	32.140	39.274	0.00	0.00
ATOM	7285	HD1	PHE	X	479	28.940	31.070	39.319	0.00	0.00
ATOM	7286	CE1	PHE	X	479	28.860	32.937	40.369	0.00	0.00
ATOM	7287	HE1	PHE	X	479	28.445	32.496	41.263	0.00	0.00
ATOM	7288	CZ	PHE	X	479	29.346	34.254	40.250	0.00	0.00
ATOM	7289	HZ	PHE	X	479	29.420	34.895	41.117	0.00	0.00
ATOM	7290	CE2	PHE	X	479	29.863	34.750	38.996	0.00	0.00
ATOM	7291	HE2	PHE	X	479	30.366	35.704	39.047	0.00	0.00
ATOM	7292	CD2	PHE	X	479	29.889	33.899	37.924	0.00	0.00
ATOM	7293	HD2	PHE	X	479	30.396	34.152	37.004	0.00	0.00
ATOM	7294	C	PHE	X	479	27.592	32.997	35.741	0.00	0.00
ATOM	7295	O	PHE	X	479	26.647	33.439	36.397	0.00	0.00
ATOM	7296	N	ALA	X	480	27.972	33.645	34.564	0.00	0.00
ATOM	7297	H	ALA	X	480	28.805	33.332	34.085	0.00	0.00
ATOM	7298	CA	ALA	X	480	27.298	34.830	34.034	0.00	0.00
ATOM	7299	HA	ALA	X	480	27.424	35.630	34.764	0.00	0.00
ATOM	7300	CB	ALA	X	480	28.072	35.238	32.782	0.00	0.00
ATOM	7301	HB1	ALA	X	480	27.710	36.185	32.382	0.00	0.00
ATOM	7302	HB2	ALA	X	480	28.034	34.382	32.108	0.00	0.00
ATOM	7303	HB3	ALA	X	480	29.147	35.323	32.936	0.00	0.00
ATOM	7304	C	ALA	X	480	25.784	34.584	33.765	0.00	0.00
ATOM	7305	O	ALA	X	480	24.863	35.369	34.053	0.00	0.00
ATOM	7306	N	ARG	X	481	25.430	33.455	33.105	0.00	0.00
ATOM	7307	H	ARG	X	481	26.151	32.987	32.575	0.00	0.00
ATOM	7308	CA	ARG	X	481	24.066	33.064	32.680	0.00	0.00
ATOM	7309	HA	ARG	X	481	23.715	33.862	32.025	0.00	0.00
ATOM	7310	CB	ARG	X	481	24.139	31.837	31.818	0.00	0.00
ATOM	7311	HB2	ARG	X	481	24.634	31.043	32.377	0.00	0.00
ATOM	7312	HB3	ARG	X	481	23.153	31.490	31.507	0.00	0.00
ATOM	7313	CG	ARG	X	481	24.639	32.171	30.437	0.00	0.00
ATOM	7314	HG2	ARG	X	481	23.925	32.812	29.919	0.00	0.00

ATOM	7315	HG3	ARG	X	481	25.576	32.729	30.431	0.00	0.00
ATOM	7316	CD	ARG	X	481	24.843	30.973	29.559	0.00	0.00
ATOM	7317	HD2	ARG	X	481	25.340	30.196	30.140	0.00	0.00
ATOM	7318	HD3	ARG	X	481	23.883	30.480	29.404	0.00	0.00
ATOM	7319	NE	ARG	X	481	25.453	31.350	28.290	0.00	0.00
ATOM	7320	HE	ARG	X	481	24.935	31.922	27.638	0.00	0.00
ATOM	7321	CZ	ARG	X	481	26.573	30.885	27.835	0.00	0.00
ATOM	7322	NH1	ARG	X	481	27.291	29.893	28.367	0.00	0.00
ATOM	7323	HH11	ARG	X	481	27.036	29.652	29.314	0.00	0.00
ATOM	7324	HH12	ARG	X	481	28.258	29.879	28.076	0.00	0.00
ATOM	7325	NH2	ARG	X	481	27.051	31.308	26.683	0.00	0.00
ATOM	7326	HH21	ARG	X	481	26.425	31.730	26.012	0.00	0.00
ATOM	7327	HH22	ARG	X	481	27.819	30.776	26.301	0.00	0.00
ATOM	7328	C	ARG	X	481	23.044	32.829	33.776	0.00	0.00
ATOM	7329	O	ARG	X	481	21.955	33.400	33.792	0.00	0.00
ATOM	7330	N	THR	X	482	23.385	31.951	34.727	0.00	0.00
ATOM	7331	H	THR	X	482	24.282	31.486	34.707	0.00	0.00
ATOM	7332	CA	THR	X	482	22.469	31.668	35.835	0.00	0.00
ATOM	7333	HA	THR	X	482	21.568	32.281	35.813	0.00	0.00
ATOM	7334	CB	THR	X	482	21.977	30.183	35.626	0.00	0.00
ATOM	7335	HB	THR	X	482	21.425	29.918	36.528	0.00	0.00
ATOM	7336	CG2	THR	X	482	21.163	29.885	34.362	0.00	0.00
ATOM	7337	HG21	THR	X	482	20.233	30.450	34.305	0.00	0.00
ATOM	7338	HG22	THR	X	482	20.949	28.816	34.340	0.00	0.00
ATOM	7339	HG23	THR	X	482	21.795	29.908	33.474	0.00	0.00
ATOM	7340	OG1	THR	X	482	23.136	29.381	35.593	0.00	0.00
ATOM	7341	HG1	THR	X	482	22.835	28.469	35.600	0.00	0.00
ATOM	7342	C	THR	X	482	23.109	31.792	37.192	0.00	0.00
ATOM	7343	O	THR	X	482	22.449	31.485	38.188	0.00	0.00
ATOM	7344	N	GLY	X	483	24.452	32.037	37.324	0.00	0.00
ATOM	7345	H	GLY	X	483	25.007	32.117	36.484	0.00	0.00
ATOM	7346	CA	GLY	X	483	25.119	31.938	38.600	0.00	0.00
ATOM	7347	HA2	GLY	X	483	26.021	32.547	38.538	0.00	0.00
ATOM	7348	HA3	GLY	X	483	24.544	32.348	39.430	0.00	0.00
ATOM	7349	C	GLY	X	483	25.492	30.553	39.026	0.00	0.00
ATOM	7350	O	GLY	X	483	26.121	30.412	40.072	0.00	0.00
ATOM	7351	N	ASP	X	484	25.231	29.532	38.195	0.00	0.00
ATOM	7352	H	ASP	X	484	24.629	29.728	37.408	0.00	0.00
ATOM	7353	CA	ASP	X	484	25.578	28.094	38.330	0.00	0.00
ATOM	7354	HA	ASP	X	484	26.160	27.994	39.246	0.00	0.00
ATOM	7355	CB	ASP	X	484	24.305	27.306	38.392	0.00	0.00
ATOM	7356	HB2	ASP	X	484	23.941	27.292	39.420	0.00	0.00
ATOM	7357	HB3	ASP	X	484	23.491	27.764	37.830	0.00	0.00
ATOM	7358	CG	ASP	X	484	24.456	25.812	37.918	0.00	0.00
ATOM	7359	OD1	ASP	X	484	25.432	25.193	38.422	0.00	0.00
ATOM	7360	OD2	ASP	X	484	23.516	25.315	37.223	0.00	0.00
ATOM	7361	C	ASP	X	484	26.434	27.702	37.116	0.00	0.00
ATOM	7362	O	ASP	X	484	26.010	27.945	35.977	0.00	0.00
ATOM	7363	N	PRO	X	485	27.697	27.221	37.290	0.00	0.00
ATOM	7364	CD	PRO	X	485	28.374	27.151	38.570	0.00	0.00
ATOM	7365	HD2	PRO	X	485	27.709	26.502	39.141	0.00	0.00
ATOM	7366	HD3	PRO	X	485	28.504	28.178	38.909	0.00	0.00
ATOM	7367	CG	PRO	X	485	29.758	26.572	38.320	0.00	0.00
ATOM	7368	HG2	PRO	X	485	29.627	25.490	38.301	0.00	0.00
ATOM	7369	HG3	PRO	X	485	30.425	26.877	39.127	0.00	0.00
ATOM	7370	CB	PRO	X	485	30.034	27.154	36.950	0.00	0.00
ATOM	7371	HB2	PRO	X	485	30.800	26.521	36.501	0.00	0.00
ATOM	7372	HB3	PRO	X	485	30.340	28.200	36.939	0.00	0.00
ATOM	7373	CA	PRO	X	485	28.690	26.933	36.265	0.00	0.00
ATOM	7374	HA	PRO	X	485	28.580	27.621	35.426	0.00	0.00
ATOM	7375	C	PRO	X	485	28.554	25.499	35.604	0.00	0.00
ATOM	7376	O	PRO	X	485	29.035	25.261	34.531	0.00	0.00
ATOM	7377	N	ASN	X	486	27.571	24.732	36.068	0.00	0.00
ATOM	7378	H	ASN	X	486	27.010	25.072	36.836	0.00	0.00
ATOM	7379	CA	ASN	X	486	27.072	23.484	35.445	0.00	0.00
ATOM	7380	HA	ASN	X	486	27.976	22.970	35.120	0.00	0.00
ATOM	7381	CB	ASN	X	486	26.236	22.731	36.509	0.00	0.00

ATOM	7382	HB2	ASN	X	486	26.797	22.795	37.441	0.00	0.00
ATOM	7383	HB3	ASN	X	486	25.355	23.340	36.709	0.00	0.00
ATOM	7384	CG	ASN	X	486	25.913	21.299	36.305	0.00	0.00
ATOM	7385	OD1	ASN	X	486	26.168	20.765	35.246	0.00	0.00
ATOM	7386	ND2	ASN	X	486	25.222	20.754	37.244	0.00	0.00
ATOM	7387	HD21	ASN	X	486	24.737	19.888	37.058	0.00	0.00
ATOM	7388	HD22	ASN	X	486	25.086	21.231	38.124	0.00	0.00
ATOM	7389	C	ASN	X	486	26.223	23.865	34.189	0.00	0.00
ATOM	7390	O	ASN	X	486	25.503	24.898	34.271	0.00	0.00
ATOM	7391	N	GLU	X	487	26.244	23.085	33.090	0.00	0.00
ATOM	7392	H	GLU	X	487	26.872	22.295	33.058	0.00	0.00
ATOM	7393	CA	GLU	X	487	25.137	23.050	32.159	0.00	0.00
ATOM	7394	HA	GLU	X	487	25.145	23.975	31.582	0.00	0.00
ATOM	7395	CB	GLU	X	487	25.341	21.941	31.130	0.00	0.00
ATOM	7396	HB2	GLU	X	487	25.533	21.008	31.661	0.00	0.00
ATOM	7397	HB3	GLU	X	487	24.395	21.734	30.630	0.00	0.00
ATOM	7398	CG	GLU	X	487	26.408	22.115	30.048	0.00	0.00
ATOM	7399	HG2	GLU	X	487	27.422	21.979	30.423	0.00	0.00
ATOM	7400	HG3	GLU	X	487	26.339	21.333	29.292	0.00	0.00
ATOM	7401	CD	GLU	X	487	26.358	23.453	29.422	0.00	0.00
ATOM	7402	OE1	GLU	X	487	27.379	24.186	29.506	0.00	0.00
ATOM	7403	OE2	GLU	X	487	25.328	23.785	28.791	0.00	0.00
ATOM	7404	C	GLU	X	487	23.795	22.918	32.909	0.00	0.00
ATOM	7405	O	GLU	X	487	23.677	22.032	33.760	0.00	0.00
ATOM	7406	N	PRO	X	488	22.735	23.583	32.484	0.00	0.00
ATOM	7407	CD	PRO	X	488	22.791	24.487	31.313	0.00	0.00
ATOM	7408	HD2	PRO	X	488	23.317	23.961	30.516	0.00	0.00
ATOM	7409	HD3	PRO	X	488	23.165	25.442	31.680	0.00	0.00
ATOM	7410	CG	PRO	X	488	21.316	24.579	30.955	0.00	0.00
ATOM	7411	HG2	PRO	X	488	21.045	23.631	30.492	0.00	0.00
ATOM	7412	HG3	PRO	X	488	21.062	25.458	30.362	0.00	0.00
ATOM	7413	CB	PRO	X	488	20.640	24.705	32.292	0.00	0.00
ATOM	7414	HB2	PRO	X	488	19.613	24.358	32.176	0.00	0.00
ATOM	7415	HB3	PRO	X	488	20.812	25.661	32.785	0.00	0.00
ATOM	7416	CA	PRO	X	488	21.393	23.620	33.066	0.00	0.00
ATOM	7417	HA	PRO	X	488	21.573	23.881	34.109	0.00	0.00
ATOM	7418	C	PRO	X	488	20.598	22.263	33.084	0.00	0.00
ATOM	7419	O	PRO	X	488	19.608	22.248	33.802	0.00	0.00
ATOM	7420	N	ARG	X	489	20.998	21.240	32.284	0.00	0.00
ATOM	7421	H	ARG	X	489	21.859	21.319	31.763	0.00	0.00
ATOM	7422	CA	ARG	X	489	20.320	19.921	32.156	0.00	0.00
ATOM	7423	HA	ARG	X	489	19.291	20.114	32.461	0.00	0.00
ATOM	7424	CB	ARG	X	489	20.449	19.486	30.670	0.00	0.00
ATOM	7425	HB2	ARG	X	489	19.893	18.557	30.543	0.00	0.00
ATOM	7426	HB3	ARG	X	489	19.974	20.273	30.083	0.00	0.00
ATOM	7427	CG	ARG	X	489	21.852	19.135	30.237	0.00	0.00
ATOM	7428	HG2	ARG	X	489	22.580	19.923	30.433	0.00	0.00
ATOM	7429	HG3	ARG	X	489	22.243	18.277	30.784	0.00	0.00
ATOM	7430	CD	ARG	X	489	22.018	18.688	28.763	0.00	0.00
ATOM	7431	HD2	ARG	X	489	21.394	17.797	28.693	0.00	0.00
ATOM	7432	HD3	ARG	X	489	21.690	19.520	28.139	0.00	0.00
ATOM	7433	NE	ARG	X	489	23.374	18.344	28.364	0.00	0.00
ATOM	7434	HE	ARG	X	489	23.848	19.069	27.846	0.00	0.00
ATOM	7435	CZ	ARG	X	489	23.963	17.118	28.421	0.00	0.00
ATOM	7436	NH1	ARG	X	489	25.179	16.853	27.976	0.00	0.00
ATOM	7437	HH11	ARG	X	489	25.642	17.621	27.511	0.00	0.00
ATOM	7438	HH12	ARG	X	489	25.566	15.920	27.993	0.00	0.00
ATOM	7439	NH2	ARG	X	489	23.352	16.054	28.915	0.00	0.00
ATOM	7440	HH21	ARG	X	489	22.464	16.233	29.362	0.00	0.00
ATOM	7441	HH22	ARG	X	489	23.809	15.167	28.762	0.00	0.00
ATOM	7442	C	ARG	X	489	20.992	18.922	33.108	0.00	0.00
ATOM	7443	O	ARG	X	489	20.622	17.723	33.019	0.00	0.00
ATOM	7444	N	ASP	X	490	22.061	19.364	33.779	0.00	0.00
ATOM	7445	H	ASP	X	490	22.269	20.352	33.809	0.00	0.00
ATOM	7446	CA	ASP	X	490	22.753	18.607	34.751	0.00	0.00
ATOM	7447	HA	ASP	X	490	23.520	19.315	35.067	0.00	0.00
ATOM	7448	CB	ASP	X	490	21.734	18.459	35.912	0.00	0.00

ATOM	7449	HB2	ASP	X	490	21.283	19.404	36.216	0.00	0.00
ATOM	7450	HB3	ASP	X	490	20.857	17.892	35.601	0.00	0.00
ATOM	7451	CG	ASP	X	490	22.419	17.826	37.159	0.00	0.00
ATOM	7452	OD1	ASP	X	490	21.832	16.976	37.861	0.00	0.00
ATOM	7453	OD2	ASP	X	490	23.552	18.400	37.480	0.00	0.00
ATOM	7454	C	ASP	X	490	23.384	17.280	34.209	0.00	0.00
ATOM	7455	O	ASP	X	490	22.811	16.239	34.464	0.00	0.00
ATOM	7456	N	PRO	X	491	24.430	17.366	33.382	0.00	0.00
ATOM	7457	CD	PRO	X	491	25.283	18.559	33.168	0.00	0.00
ATOM	7458	HD2	PRO	X	491	25.975	18.490	34.007	0.00	0.00
ATOM	7459	HD3	PRO	X	491	24.706	19.473	33.025	0.00	0.00
ATOM	7460	CG	PRO	X	491	26.116	18.344	31.876	0.00	0.00
ATOM	7461	HG2	PRO	X	491	27.093	18.823	31.813	0.00	0.00
ATOM	7462	HG3	PRO	X	491	25.519	18.737	31.053	0.00	0.00
ATOM	7463	CB	PRO	X	491	26.230	16.845	31.842	0.00	0.00
ATOM	7464	HB2	PRO	X	491	27.251	16.540	32.070	0.00	0.00
ATOM	7465	HB3	PRO	X	491	26.089	16.546	30.803	0.00	0.00
ATOM	7466	CA	PRO	X	491	25.116	16.222	32.747	0.00	0.00
ATOM	7467	HA	PRO	X	491	24.413	15.621	32.171	0.00	0.00
ATOM	7468	C	PRO	X	491	25.722	15.296	33.797	0.00	0.00
ATOM	7469	O	PRO	X	491	26.088	15.684	34.921	0.00	0.00
ATOM	7470	N	LYS	X	492	25.760	14.013	33.456	0.00	0.00
ATOM	7471	H	LYS	X	492	25.375	13.798	32.547	0.00	0.00
ATOM	7472	CA	LYS	X	492	26.048	12.879	34.330	0.00	0.00
ATOM	7473	HA	LYS	X	492	25.638	13.092	35.317	0.00	0.00
ATOM	7474	CB	LYS	X	492	25.418	11.639	33.630	0.00	0.00
ATOM	7475	HB2	LYS	X	492	24.354	11.821	33.477	0.00	0.00
ATOM	7476	HB3	LYS	X	492	25.889	11.564	32.650	0.00	0.00
ATOM	7477	CG	LYS	X	492	25.416	10.393	34.470	0.00	0.00
ATOM	7478	HG2	LYS	X	492	26.455	10.086	34.591	0.00	0.00
ATOM	7479	HG3	LYS	X	492	25.078	10.750	35.442	0.00	0.00
ATOM	7480	CD	LYS	X	492	24.577	9.174	34.309	0.00	0.00
ATOM	7481	HD2	LYS	X	492	24.840	8.389	35.018	0.00	0.00
ATOM	7482	HD3	LYS	X	492	23.548	9.362	34.614	0.00	0.00
ATOM	7483	CE	LYS	X	492	24.538	8.564	32.851	0.00	0.00
ATOM	7484	HE2	LYS	X	492	23.681	7.895	32.929	0.00	0.00
ATOM	7485	HE3	LYS	X	492	24.344	9.263	32.037	0.00	0.00
ATOM	7486	NZ	LYS	X	492	25.854	7.858	32.451	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	26.574	8.544	32.274	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	26.170	7.256	33.198	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	25.693	7.277	31.641	0.00	0.00
ATOM	7490	C	LYS	X	492	27.556	12.751	34.649	0.00	0.00
ATOM	7491	O	LYS	X	492	27.857	12.102	35.635	0.00	0.00
ATOM	7492	N	ALA	X	493	28.467	13.369	33.855	0.00	0.00
ATOM	7493	H	ALA	X	493	27.975	13.919	33.164	0.00	0.00
ATOM	7494	CA	ALA	X	493	29.800	13.740	34.231	0.00	0.00
ATOM	7495	HA	ALA	X	493	30.413	12.843	34.318	0.00	0.00
ATOM	7496	CB	ALA	X	493	30.390	14.484	33.006	0.00	0.00
ATOM	7497	HB1	ALA	X	493	29.752	15.329	32.748	0.00	0.00
ATOM	7498	HB2	ALA	X	493	30.443	13.840	32.128	0.00	0.00
ATOM	7499	HB3	ALA	X	493	31.384	14.841	33.275	0.00	0.00
ATOM	7500	C	ALA	X	493	29.927	14.675	35.479	0.00	0.00
ATOM	7501	O	ALA	X	493	28.987	15.408	35.788	0.00	0.00
ATOM	7502	N	PRO	X	494	31.124	14.634	36.170	0.00	0.00
ATOM	7503	CD	PRO	X	494	32.316	13.721	35.917	0.00	0.00
ATOM	7504	HD2	PRO	X	494	32.862	14.187	35.096	0.00	0.00
ATOM	7505	HD3	PRO	X	494	32.048	12.684	35.714	0.00	0.00
ATOM	7506	CG	PRO	X	494	32.993	13.714	37.311	0.00	0.00
ATOM	7507	HG2	PRO	X	494	34.039	13.615	37.020	0.00	0.00
ATOM	7508	HG3	PRO	X	494	32.549	12.906	37.893	0.00	0.00
ATOM	7509	CB	PRO	X	494	32.591	15.033	37.968	0.00	0.00
ATOM	7510	HB2	PRO	X	494	33.259	15.831	37.642	0.00	0.00
ATOM	7511	HB3	PRO	X	494	32.554	14.983	39.056	0.00	0.00
ATOM	7512	CA	PRO	X	494	31.219	15.340	37.465	0.00	0.00
ATOM	7513	HA	PRO	X	494	30.457	14.911	38.116	0.00	0.00
ATOM	7514	C	PRO	X	494	31.057	16.839	37.316	0.00	0.00
ATOM	7515	O	PRO	X	494	31.418	17.357	36.238	0.00	0.00

ATOM	7516	N	GLN	X	495	30.546	17.602	38.316	0.00	0.00
ATOM	7517	H	GLN	X	495	30.504	17.125	39.206	0.00	0.00
ATOM	7518	CA	GLN	X	495	30.327	19.055	38.237	0.00	0.00
ATOM	7519	HA	GLN	X	495	30.970	19.518	37.489	0.00	0.00
ATOM	7520	CB	GLN	X	495	28.826	19.249	37.975	0.00	0.00
ATOM	7521	HB2	GLN	X	495	28.241	18.879	38.818	0.00	0.00
ATOM	7522	HB3	GLN	X	495	28.537	20.299	37.949	0.00	0.00
ATOM	7523	CG	GLN	X	495	28.209	18.555	36.738	0.00	0.00
ATOM	7524	HG2	GLN	X	495	28.232	17.476	36.888	0.00	0.00
ATOM	7525	HG3	GLN	X	495	27.159	18.842	36.783	0.00	0.00
ATOM	7526	CD	GLN	X	495	28.840	18.929	35.415	0.00	0.00
ATOM	7527	OE1	GLN	X	495	29.345	20.032	35.247	0.00	0.00
ATOM	7528	NE2	GLN	X	495	29.014	18.066	34.447	0.00	0.00
ATOM	7529	HE21	GLN	X	495	29.571	18.234	33.621	0.00	0.00
ATOM	7530	HE22	GLN	X	495	28.772	17.142	34.775	0.00	0.00
ATOM	7531	C	GLN	X	495	30.582	19.787	39.587	0.00	0.00
ATOM	7532	O	GLN	X	495	30.408	19.177	40.645	0.00	0.00
ATOM	7533	N	TRP	X	496	30.908	21.122	39.536	0.00	0.00
ATOM	7534	H	TRP	X	496	30.875	21.548	38.620	0.00	0.00
ATOM	7535	CA	TRP	X	496	31.391	21.999	40.586	0.00	0.00
ATOM	7536	HA	TRP	X	496	32.275	21.571	41.058	0.00	0.00
ATOM	7537	CB	TRP	X	496	31.834	23.239	39.908	0.00	0.00
ATOM	7538	HB2	TRP	X	496	32.551	22.970	39.133	0.00	0.00
ATOM	7539	HB3	TRP	X	496	30.994	23.613	39.322	0.00	0.00
ATOM	7540	CG	TRP	X	496	32.489	24.353	40.624	0.00	0.00
ATOM	7541	CD1	TRP	X	496	32.845	24.450	41.905	0.00	0.00
ATOM	7542	HD1	TRP	X	496	32.673	23.700	42.663	0.00	0.00
ATOM	7543	NE1	TRP	X	496	33.549	25.633	42.133	0.00	0.00
ATOM	7544	HE1	TRP	X	496	33.858	25.962	43.037	0.00	0.00
ATOM	7545	CE2	TRP	X	496	33.776	26.264	40.986	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	34.449	27.433	40.632	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	35.045	27.922	41.388	0.00	0.00
ATOM	7548	CH2	TRP	X	496	34.494	27.908	39.316	0.00	0.00
ATOM	7549	HH2	TRP	X	496	35.081	28.777	39.060	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	33.946	27.112	38.317	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	34.140	27.406	37.296	0.00	0.00
ATOM	7552	CE3	TRP	X	496	33.281	25.943	38.656	0.00	0.00
ATOM	7553	HE3	TRP	X	496	32.869	25.327	37.871	0.00	0.00
ATOM	7554	CD2	TRP	X	496	33.088	25.511	39.976	0.00	0.00
ATOM	7555	C	TRP	X	496	30.310	22.321	41.723	0.00	0.00
ATOM	7556	O	TRP	X	496	29.188	22.923	41.497	0.00	0.00
ATOM	7557	N	PRO	X	497	30.549	21.990	43.017	0.00	0.00
ATOM	7558	CD	PRO	X	497	31.629	21.091	43.518	0.00	0.00
ATOM	7559	HD2	PRO	X	497	32.598	21.584	43.441	0.00	0.00
ATOM	7560	HD3	PRO	X	497	31.521	20.161	42.959	0.00	0.00
ATOM	7561	CG	PRO	X	497	31.350	20.853	44.956	0.00	0.00
ATOM	7562	HG2	PRO	X	497	31.929	21.547	45.565	0.00	0.00
ATOM	7563	HG3	PRO	X	497	31.589	19.831	45.249	0.00	0.00
ATOM	7564	CB	PRO	X	497	29.848	21.197	45.174	0.00	0.00
ATOM	7565	HB2	PRO	X	497	29.669	21.609	46.167	0.00	0.00
ATOM	7566	HB3	PRO	X	497	29.232	20.326	44.949	0.00	0.00
ATOM	7567	CA	PRO	X	497	29.578	22.237	44.110	0.00	0.00
ATOM	7568	HA	PRO	X	497	28.584	22.077	43.692	0.00	0.00
ATOM	7569	C	PRO	X	497	29.790	23.703	44.599	0.00	0.00
ATOM	7570	O	PRO	X	497	30.952	24.199	44.366	0.00	0.00
ATOM	7571	N	PRO	X	498	28.906	24.256	45.379	0.00	0.00
ATOM	7572	CD	PRO	X	498	27.613	23.764	45.773	0.00	0.00
ATOM	7573	HD2	PRO	X	498	27.729	22.733	46.106	0.00	0.00
ATOM	7574	HD3	PRO	X	498	26.976	23.888	44.897	0.00	0.00
ATOM	7575	CG	PRO	X	498	27.161	24.577	46.960	0.00	0.00
ATOM	7576	HG2	PRO	X	498	27.453	24.076	47.883	0.00	0.00
ATOM	7577	HG3	PRO	X	498	26.081	24.723	46.954	0.00	0.00
ATOM	7578	CB	PRO	X	498	27.864	25.902	46.704	0.00	0.00
ATOM	7579	HB2	PRO	X	498	28.018	26.447	47.635	0.00	0.00
ATOM	7580	HB3	PRO	X	498	27.352	26.583	46.025	0.00	0.00
ATOM	7581	CA	PRO	X	498	29.241	25.481	46.119	0.00	0.00
ATOM	7582	HA	PRO	X	498	29.680	26.272	45.511	0.00	0.00

ATOM	7583	C	PRO	X	498	30.267	25.301	47.234	0.00	0.00
ATOM	7584	O	PRO	X	498	30.312	24.238	47.871	0.00	0.00
ATOM	7585	N	TYR	X	499	31.032	26.356	47.571	0.00	0.00
ATOM	7586	H	TYR	X	499	30.650	27.185	47.137	0.00	0.00
ATOM	7587	CA	TYR	X	499	32.108	26.486	48.575	0.00	0.00
ATOM	7588	HA	TYR	X	499	32.638	25.537	48.663	0.00	0.00
ATOM	7589	CB	TYR	X	499	33.105	27.518	48.012	0.00	0.00
ATOM	7590	HB2	TYR	X	499	33.440	27.185	47.029	0.00	0.00
ATOM	7591	HB3	TYR	X	499	32.553	28.449	47.884	0.00	0.00
ATOM	7592	CG	TYR	X	499	34.246	27.807	49.054	0.00	0.00
ATOM	7593	CD1	TYR	X	499	34.036	28.802	50.041	0.00	0.00
ATOM	7594	HD1	TYR	X	499	33.051	29.227	50.161	0.00	0.00
ATOM	7595	CE1	TYR	X	499	34.956	29.060	51.062	0.00	0.00
ATOM	7596	HE1	TYR	X	499	34.803	29.930	51.684	0.00	0.00
ATOM	7597	CZ	TYR	X	499	36.267	28.429	51.004	0.00	0.00
ATOM	7598	OH	TYR	X	499	37.293	28.866	51.733	0.00	0.00
ATOM	7599	HH	TYR	X	499	36.911	29.528	52.313	0.00	0.00
ATOM	7600	CE2	TYR	X	499	36.494	27.447	49.991	0.00	0.00
ATOM	7601	HE2	TYR	X	499	37.481	27.059	49.789	0.00	0.00
ATOM	7602	CD2	TYR	X	499	35.480	27.105	49.107	0.00	0.00
ATOM	7603	HD2	TYR	X	499	35.596	26.366	48.327	0.00	0.00
ATOM	7604	C	TYR	X	499	31.425	26.868	49.892	0.00	0.00
ATOM	7605	O	TYR	X	499	30.548	27.790	49.902	0.00	0.00
ATOM	7606	N	THR	X	500	31.655	26.245	51.059	0.00	0.00
ATOM	7607	H	THR	X	500	32.342	25.504	51.076	0.00	0.00
ATOM	7608	CA	THR	X	500	31.097	26.657	52.337	0.00	0.00
ATOM	7609	HA	THR	X	500	30.613	27.626	52.210	0.00	0.00
ATOM	7610	CB	THR	X	500	29.995	25.694	52.743	0.00	0.00
ATOM	7611	HB	THR	X	500	29.609	26.017	53.710	0.00	0.00
ATOM	7612	CG2	THR	X	500	28.797	25.729	51.802	0.00	0.00
ATOM	7613	HG21	THR	X	500	29.154	25.501	50.798	0.00	0.00
ATOM	7614	HG22	THR	X	500	28.280	26.689	51.815	0.00	0.00
ATOM	7615	HG23	THR	X	500	28.106	24.925	52.055	0.00	0.00
ATOM	7616	OG1	THR	X	500	30.519	24.377	52.902	0.00	0.00
ATOM	7617	HG1	THR	X	500	29.927	23.973	53.541	0.00	0.00
ATOM	7618	C	THR	X	500	32.192	26.810	53.444	0.00	0.00
ATOM	7619	O	THR	X	500	33.214	26.137	53.296	0.00	0.00
ATOM	7620	N	ALA	X	501	31.941	27.464	54.563	0.00	0.00
ATOM	7621	H	ALA	X	501	31.006	27.846	54.576	0.00	0.00
ATOM	7622	CA	ALA	X	501	32.983	27.586	55.657	0.00	0.00
ATOM	7623	HA	ALA	X	501	33.915	27.864	55.164	0.00	0.00
ATOM	7624	CB	ALA	X	501	32.435	28.647	56.619	0.00	0.00
ATOM	7625	HB1	ALA	X	501	31.962	29.458	56.065	0.00	0.00
ATOM	7626	HB2	ALA	X	501	33.248	29.126	57.164	0.00	0.00
ATOM	7627	HB3	ALA	X	501	31.721	28.191	57.304	0.00	0.00
ATOM	7628	C	ALA	X	501	33.168	26.201	56.347	0.00	0.00
ATOM	7629	O	ALA	X	501	34.252	25.890	56.802	0.00	0.00
ATOM	7630	N	GLY	X	502	32.166	25.352	56.297	0.00	0.00
ATOM	7631	H	GLY	X	502	31.330	25.755	55.898	0.00	0.00
ATOM	7632	CA	GLY	X	502	32.167	23.927	56.729	0.00	0.00
ATOM	7633	HA2	GLY	X	502	32.373	24.023	57.795	0.00	0.00
ATOM	7634	HA3	GLY	X	502	31.201	23.424	56.676	0.00	0.00
ATOM	7635	C	GLY	X	502	33.211	23.105	55.937	0.00	0.00
ATOM	7636	O	GLY	X	502	34.309	22.975	56.467	0.00	0.00
ATOM	7637	N	ALA	X	503	32.850	22.683	54.770	0.00	0.00
ATOM	7638	H	ALA	X	503	31.879	22.793	54.514	0.00	0.00
ATOM	7639	CA	ALA	X	503	33.664	21.769	54.008	0.00	0.00
ATOM	7640	HA	ALA	X	503	34.028	21.034	54.725	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.713	20.990	53.084	0.00	0.00
ATOM	7642	HB1	ALA	X	503	32.340	21.750	52.397	0.00	0.00
ATOM	7643	HB2	ALA	X	503	32.003	20.381	53.643	0.00	0.00
ATOM	7644	HB3	ALA	X	503	33.337	20.307	52.507	0.00	0.00
ATOM	7645	C	ALA	X	503	34.818	22.550	53.233	0.00	0.00
ATOM	7646	O	ALA	X	503	35.923	21.951	53.188	0.00	0.00
ATOM	7647	N	GLN	X	504	34.625	23.776	52.682	0.00	0.00
ATOM	7648	H	GLN	X	504	33.773	24.245	52.957	0.00	0.00
ATOM	7649	CA	GLN	X	504	35.565	24.518	51.811	0.00	0.00

ATOM	7650	HA	GLN	X	504	35.120	25.447	51.454	0.00	0.00
ATOM	7651	CB	GLN	X	504	36.814	24.960	52.676	0.00	0.00
ATOM	7652	HB2	GLN	X	504	37.280	24.037	53.018	0.00	0.00
ATOM	7653	HB3	GLN	X	504	37.549	25.459	52.045	0.00	0.00
ATOM	7654	CG	GLN	X	504	36.585	25.833	53.938	0.00	0.00
ATOM	7655	HG2	GLN	X	504	36.092	26.737	53.582	0.00	0.00
ATOM	7656	HG3	GLN	X	504	35.964	25.350	54.691	0.00	0.00
ATOM	7657	CD	GLN	X	504	37.903	26.097	54.686	0.00	0.00
ATOM	7658	OE1	GLN	X	504	38.421	25.302	55.476	0.00	0.00
ATOM	7659	NE2	GLN	X	504	38.409	27.237	54.538	0.00	0.00
ATOM	7660	HE21	GLN	X	504	39.107	27.540	55.202	0.00	0.00
ATOM	7661	HE22	GLN	X	504	37.890	27.969	54.074	0.00	0.00
ATOM	7662	C	GLN	X	504	36.025	23.720	50.568	0.00	0.00
ATOM	7663	O	GLN	X	504	37.185	23.455	50.264	0.00	0.00
ATOM	7664	N	GLN	X	505	34.991	23.241	49.814	0.00	0.00
ATOM	7665	H	GLN	X	505	34.080	23.203	50.248	0.00	0.00
ATOM	7666	CA	GLN	X	505	35.013	22.618	48.498	0.00	0.00
ATOM	7667	HA	GLN	X	505	35.769	21.836	48.422	0.00	0.00
ATOM	7668	CB	GLN	X	505	33.725	21.830	48.242	0.00	0.00
ATOM	7669	HB2	GLN	X	505	32.866	22.393	47.875	0.00	0.00
ATOM	7670	HB3	GLN	X	505	33.817	21.261	47.317	0.00	0.00
ATOM	7671	CG	GLN	X	505	33.471	20.699	49.243	0.00	0.00
ATOM	7672	HG2	GLN	X	505	34.369	20.095	49.373	0.00	0.00
ATOM	7673	HG3	GLN	X	505	33.221	21.144	50.206	0.00	0.00
ATOM	7674	CD	GLN	X	505	32.310	19.835	48.725	0.00	0.00
ATOM	7675	OE1	GLN	X	505	31.136	20.249	48.846	0.00	0.00
ATOM	7676	NE2	GLN	X	505	32.589	18.731	48.083	0.00	0.00
ATOM	7677	HE21	GLN	X	505	31.834	18.340	47.539	0.00	0.00
ATOM	7678	HE22	GLN	X	505	33.514	18.331	48.150	0.00	0.00
ATOM	7679	C	GLN	X	505	35.340	23.592	47.362	0.00	0.00
ATOM	7680	O	GLN	X	505	34.619	24.575	47.265	0.00	0.00
ATOM	7681	N	TYR	X	506	36.347	23.276	46.490	0.00	0.00
ATOM	7682	H	TYR	X	506	37.011	22.582	46.802	0.00	0.00
ATOM	7683	CA	TYR	X	506	36.805	24.084	45.389	0.00	0.00
ATOM	7684	HA	TYR	X	506	36.008	24.743	45.045	0.00	0.00
ATOM	7685	CB	TYR	X	506	37.958	25.017	45.830	0.00	0.00
ATOM	7686	HB2	TYR	X	506	38.178	25.719	45.025	0.00	0.00
ATOM	7687	HB3	TYR	X	506	37.584	25.581	46.684	0.00	0.00
ATOM	7688	CG	TYR	X	506	39.265	24.331	46.178	0.00	0.00
ATOM	7689	CD1	TYR	X	506	39.537	24.040	47.541	0.00	0.00
ATOM	7690	HD1	TYR	X	506	38.840	24.395	48.285	0.00	0.00
ATOM	7691	CE1	TYR	X	506	40.734	23.482	47.878	0.00	0.00
ATOM	7692	HE1	TYR	X	506	41.089	23.308	48.883	0.00	0.00
ATOM	7693	CZ	TYR	X	506	41.662	23.106	46.863	0.00	0.00
ATOM	7694	OH	TYR	X	506	42.740	22.364	47.271	0.00	0.00
ATOM	7695	HH	TYR	X	506	42.867	22.401	48.222	0.00	0.00
ATOM	7696	CE2	TYR	X	506	41.354	23.302	45.463	0.00	0.00
ATOM	7697	HE2	TYR	X	506	41.924	22.887	44.645	0.00	0.00
ATOM	7698	CD2	TYR	X	506	40.209	24.040	45.161	0.00	0.00
ATOM	7699	HD2	TYR	X	506	39.966	24.253	44.131	0.00	0.00
ATOM	7700	C	TYR	X	506	37.215	23.224	44.139	0.00	0.00
ATOM	7701	O	TYR	X	506	37.515	22.053	44.346	0.00	0.00
ATOM	7702	N	VAL	X	507	37.190	23.722	42.879	0.00	0.00
ATOM	7703	H	VAL	X	507	36.949	24.697	42.772	0.00	0.00
ATOM	7704	CA	VAL	X	507	37.582	22.911	41.640	0.00	0.00
ATOM	7705	HA	VAL	X	507	37.476	21.842	41.824	0.00	0.00
ATOM	7706	CB	VAL	X	507	36.722	23.191	40.351	0.00	0.00
ATOM	7707	HB	VAL	X	507	37.279	22.689	39.560	0.00	0.00
ATOM	7708	CG1	VAL	X	507	35.315	22.594	40.473	0.00	0.00
ATOM	7709	HG11	VAL	X	507	34.773	22.993	41.330	0.00	0.00
ATOM	7710	HG12	VAL	X	507	34.831	22.917	39.551	0.00	0.00
ATOM	7711	HG13	VAL	X	507	35.396	21.508	40.529	0.00	0.00
ATOM	7712	CG2	VAL	X	507	36.637	24.636	40.000	0.00	0.00
ATOM	7713	HG21	VAL	X	507	37.572	25.021	39.593	0.00	0.00
ATOM	7714	HG22	VAL	X	507	36.403	25.210	40.896	0.00	0.00
ATOM	7715	HG23	VAL	X	507	35.905	24.821	39.213	0.00	0.00
ATOM	7716	C	VAL	X	507	39.104	23.199	41.404	0.00	0.00

ATOM	7717	O	VAL	X	507	39.542	24.284	41.417	0.00	0.00
ATOM	7718	N	SER	X	508	39.894	22.164	41.013	0.00	0.00
ATOM	7719	H	SER	X	508	39.377	21.302	40.910	0.00	0.00
ATOM	7720	CA	SER	X	508	41.220	22.269	40.374	0.00	0.00
ATOM	7721	HA	SER	X	508	41.662	23.220	40.672	0.00	0.00
ATOM	7722	CB	SER	X	508	42.145	21.261	40.966	0.00	0.00
ATOM	7723	HB2	SER	X	508	43.133	21.433	40.538	0.00	0.00
ATOM	7724	HB3	SER	X	508	42.293	21.383	42.039	0.00	0.00
ATOM	7725	OG	SER	X	508	41.691	19.958	40.825	0.00	0.00
ATOM	7726	HG	SER	X	508	40.752	19.786	40.929	0.00	0.00
ATOM	7727	C	SER	X	508	41.058	22.341	38.821	0.00	0.00
ATOM	7728	O	SER	X	508	40.081	21.693	38.383	0.00	0.00
ATOM	7729	N	LEU	X	509	41.846	23.044	38.054	0.00	0.00
ATOM	7730	H	LEU	X	509	42.672	23.474	38.448	0.00	0.00
ATOM	7731	CA	LEU	X	509	41.495	23.334	36.693	0.00	0.00
ATOM	7732	HA	LEU	X	509	40.858	22.567	36.251	0.00	0.00
ATOM	7733	CB	LEU	X	509	40.970	24.801	36.625	0.00	0.00
ATOM	7734	HB2	LEU	X	509	41.755	25.415	37.066	0.00	0.00
ATOM	7735	HB3	LEU	X	509	40.802	25.022	35.571	0.00	0.00
ATOM	7736	CG	LEU	X	509	39.666	25.087	37.417	0.00	0.00
ATOM	7737	HG	LEU	X	509	39.875	24.870	38.465	0.00	0.00
ATOM	7738	CD1	LEU	X	509	39.343	26.560	37.280	0.00	0.00
ATOM	7739	HD11	LEU	X	509	38.396	26.774	37.777	0.00	0.00
ATOM	7740	HD12	LEU	X	509	39.292	26.975	36.273	0.00	0.00
ATOM	7741	HD13	LEU	X	509	40.069	27.150	37.839	0.00	0.00
ATOM	7742	CD2	LEU	X	509	38.485	24.241	36.957	0.00	0.00
ATOM	7743	HD21	LEU	X	509	38.541	23.206	37.294	0.00	0.00
ATOM	7744	HD22	LEU	X	509	37.628	24.738	37.411	0.00	0.00
ATOM	7745	HD23	LEU	X	509	38.356	24.072	35.888	0.00	0.00
ATOM	7746	C	LEU	X	509	42.807	23.155	35.991	0.00	0.00
ATOM	7747	O	LEU	X	509	43.827	23.680	36.397	0.00	0.00
ATOM	7748	N	ASP	X	510	42.780	22.305	34.988	0.00	0.00
ATOM	7749	H	ASP	X	510	41.888	21.890	34.758	0.00	0.00
ATOM	7750	CA	ASP	X	510	43.876	21.640	34.387	0.00	0.00
ATOM	7751	HA	ASP	X	510	44.607	22.391	34.091	0.00	0.00
ATOM	7752	CB	ASP	X	510	44.450	20.611	35.356	0.00	0.00
ATOM	7753	HB2	ASP	X	510	44.551	20.974	36.379	0.00	0.00
ATOM	7754	HB3	ASP	X	510	43.726	19.802	35.461	0.00	0.00
ATOM	7755	CG	ASP	X	510	45.844	20.068	35.051	0.00	0.00
ATOM	7756	OD1	ASP	X	510	46.314	19.170	35.809	0.00	0.00
ATOM	7757	OD2	ASP	X	510	46.545	20.591	34.174	0.00	0.00
ATOM	7758	C	ASP	X	510	43.379	20.924	33.074	0.00	0.00
ATOM	7759	O	ASP	X	510	42.152	20.651	32.937	0.00	0.00
ATOM	7760	N	LEU	X	511	44.334	20.417	32.312	0.00	0.00
ATOM	7761	H	LEU	X	511	45.224	20.725	32.677	0.00	0.00
ATOM	7762	CA	LEU	X	511	44.047	19.698	31.093	0.00	0.00
ATOM	7763	HA	LEU	X	511	43.430	20.266	30.397	0.00	0.00
ATOM	7764	CB	LEU	X	511	45.371	19.249	30.540	0.00	0.00
ATOM	7765	HB2	LEU	X	511	45.900	18.745	31.349	0.00	0.00
ATOM	7766	HB3	LEU	X	511	45.154	18.510	29.768	0.00	0.00
ATOM	7767	CG	LEU	X	511	46.254	20.369	30.111	0.00	0.00
ATOM	7768	HG	LEU	X	511	46.613	20.977	30.941	0.00	0.00
ATOM	7769	CD1	LEU	X	511	47.436	19.780	29.337	0.00	0.00
ATOM	7770	HD11	LEU	X	511	47.022	19.267	28.469	0.00	0.00
ATOM	7771	HD12	LEU	X	511	47.894	19.200	30.138	0.00	0.00
ATOM	7772	HD13	LEU	X	511	48.137	20.554	29.025	0.00	0.00
ATOM	7773	CD2	LEU	X	511	45.514	21.294	29.131	0.00	0.00
ATOM	7774	HD21	LEU	X	511	44.810	21.916	29.683	0.00	0.00
ATOM	7775	HD22	LEU	X	511	46.274	22.015	28.828	0.00	0.00
ATOM	7776	HD23	LEU	X	511	45.051	20.837	28.256	0.00	0.00
ATOM	7777	C	LEU	X	511	43.166	18.452	31.362	0.00	0.00
ATOM	7778	O	LEU	X	511	42.255	18.277	30.596	0.00	0.00
ATOM	7779	N	ARG	X	512	43.371	17.739	32.491	0.00	0.00
ATOM	7780	H	ARG	X	512	44.108	18.092	33.085	0.00	0.00
ATOM	7781	CA	ARG	X	512	42.456	16.738	32.963	0.00	0.00
ATOM	7782	HA	ARG	X	512	42.639	15.888	32.305	0.00	0.00
ATOM	7783	CB	ARG	X	512	42.864	16.411	34.426	0.00	0.00

ATOM	7784	HB2	ARG	X	512	42.738	17.302	35.041	0.00	0.00
ATOM	7785	HB3	ARG	X	512	42.287	15.566	34.801	0.00	0.00
ATOM	7786	CG	ARG	X	512	44.343	15.952	34.691	0.00	0.00
ATOM	7787	HG2	ARG	X	512	44.558	15.021	34.168	0.00	0.00
ATOM	7788	HG3	ARG	X	512	45.000	16.735	34.314	0.00	0.00
ATOM	7789	CD	ARG	X	512	44.761	15.864	36.131	0.00	0.00
ATOM	7790	HD2	ARG	X	512	45.752	15.437	36.283	0.00	0.00
ATOM	7791	HD3	ARG	X	512	44.648	16.888	36.488	0.00	0.00
ATOM	7792	NE	ARG	X	512	43.895	15.036	36.933	0.00	0.00
ATOM	7793	HE	ARG	X	512	43.310	14.436	36.370	0.00	0.00
ATOM	7794	CZ	ARG	X	512	43.645	15.021	38.248	0.00	0.00
ATOM	7795	NH1	ARG	X	512	44.159	15.803	39.094	0.00	0.00
ATOM	7796	HH11	ARG	X	512	44.981	16.372	38.951	0.00	0.00
ATOM	7797	HH12	ARG	X	512	43.681	15.780	39.984	0.00	0.00
ATOM	7798	NH2	ARG	X	512	42.803	14.138	38.667	0.00	0.00
ATOM	7799	HH21	ARG	X	512	42.341	13.558	37.982	0.00	0.00
ATOM	7800	HH22	ARG	X	512	42.294	14.181	39.539	0.00	0.00
ATOM	7801	C	ARG	X	512	40.945	17.130	33.010	0.00	0.00
ATOM	7802	O	ARG	X	512	40.687	18.311	33.123	0.00	0.00
ATOM	7803	N	PRO	X	513	40.037	16.127	33.007	0.00	0.00
ATOM	7804	CD	PRO	X	513	40.187	14.681	32.830	0.00	0.00
ATOM	7805	HD2	PRO	X	513	40.976	14.435	33.540	0.00	0.00
ATOM	7806	HD3	PRO	X	513	40.486	14.420	31.814	0.00	0.00
ATOM	7807	CG	PRO	X	513	38.852	13.997	33.217	0.00	0.00
ATOM	7808	HG2	PRO	X	513	38.924	13.792	34.285	0.00	0.00
ATOM	7809	HG3	PRO	X	513	38.655	13.058	32.700	0.00	0.00
ATOM	7810	CB	PRO	X	513	37.861	15.093	32.947	0.00	0.00
ATOM	7811	HB2	PRO	X	513	37.031	14.858	33.613	0.00	0.00
ATOM	7812	HB3	PRO	X	513	37.669	15.127	31.874	0.00	0.00
ATOM	7813	CA	PRO	X	513	38.695	16.367	33.326	0.00	0.00
ATOM	7814	HA	PRO	X	513	38.244	17.197	32.783	0.00	0.00
ATOM	7815	C	PRO	X	513	38.565	16.766	34.820	0.00	0.00
ATOM	7816	O	PRO	X	513	39.435	16.444	35.643	0.00	0.00
ATOM	7817	N	LEU	X	514	37.474	17.543	35.110	0.00	0.00
ATOM	7818	H	LEU	X	514	36.956	17.871	34.307	0.00	0.00
ATOM	7819	CA	LEU	X	514	37.166	18.200	36.417	0.00	0.00
ATOM	7820	HA	LEU	X	514	37.804	19.072	36.560	0.00	0.00
ATOM	7821	CB	LEU	X	514	35.649	18.609	36.330	0.00	0.00
ATOM	7822	HB2	LEU	X	514	35.386	19.124	35.406	0.00	0.00
ATOM	7823	HB3	LEU	X	514	35.076	17.705	36.537	0.00	0.00
ATOM	7824	CG	LEU	X	514	35.342	19.588	37.461	0.00	0.00
ATOM	7825	HG	LEU	X	514	35.859	19.370	38.395	0.00	0.00
ATOM	7826	CD1	LEU	X	514	35.819	21.013	37.078	0.00	0.00
ATOM	7827	HD11	LEU	X	514	35.274	21.364	36.201	0.00	0.00
ATOM	7828	HD12	LEU	X	514	36.845	20.982	36.710	0.00	0.00
ATOM	7829	HD13	LEU	X	514	35.787	21.723	37.904	0.00	0.00
ATOM	7830	CD2	LEU	X	514	33.865	19.611	37.772	0.00	0.00
ATOM	7831	HD21	LEU	X	514	33.575	20.487	38.353	0.00	0.00
ATOM	7832	HD22	LEU	X	514	33.322	19.699	36.831	0.00	0.00
ATOM	7833	HD23	LEU	X	514	33.503	18.825	38.435	0.00	0.00
ATOM	7834	C	LEU	X	514	37.536	17.401	37.727	0.00	0.00
ATOM	7835	O	LEU	X	514	37.007	16.317	37.963	0.00	0.00
ATOM	7836	N	GLU	X	515	38.207	17.976	38.743	0.00	0.00
ATOM	7837	H	GLU	X	515	38.657	18.864	38.575	0.00	0.00
ATOM	7838	CA	GLU	X	515	38.582	17.430	40.065	0.00	0.00
ATOM	7839	HA	GLU	X	515	37.904	16.586	40.192	0.00	0.00
ATOM	7840	CB	GLU	X	515	40.022	16.811	40.123	0.00	0.00
ATOM	7841	HB2	GLU	X	515	40.108	15.972	39.433	0.00	0.00
ATOM	7842	HB3	GLU	X	515	40.770	17.582	39.937	0.00	0.00
ATOM	7843	CG	GLU	X	515	40.317	16.157	41.516	0.00	0.00
ATOM	7844	HG2	GLU	X	515	40.218	16.945	42.262	0.00	0.00
ATOM	7845	HG3	GLU	X	515	39.445	15.560	41.780	0.00	0.00
ATOM	7846	CD	GLU	X	515	41.677	15.490	41.632	0.00	0.00
ATOM	7847	OE1	GLU	X	515	41.794	14.439	41.080	0.00	0.00
ATOM	7848	OE2	GLU	X	515	42.670	16.086	42.074	0.00	0.00
ATOM	7849	C	GLU	X	515	38.354	18.485	41.101	0.00	0.00
ATOM	7850	O	GLU	X	515	38.893	19.595	40.989	0.00	0.00

ATOM	7851	N	VAL	X	516	37.621	18.063	42.161	0.00	0.00
ATOM	7852	H	VAL	X	516	37.303	17.105	42.155	0.00	0.00
ATOM	7853	CA	VAL	X	516	37.196	18.846	43.365	0.00	0.00
ATOM	7854	HA	VAL	X	516	37.218	19.896	43.073	0.00	0.00
ATOM	7855	CB	VAL	X	516	35.707	18.533	43.662	0.00	0.00
ATOM	7856	HB	VAL	X	516	35.576	17.489	43.947	0.00	0.00
ATOM	7857	CG1	VAL	X	516	35.258	19.380	44.903	0.00	0.00
ATOM	7858	HG11	VAL	X	516	35.439	20.444	44.750	0.00	0.00
ATOM	7859	HG12	VAL	X	516	34.245	19.069	45.158	0.00	0.00
ATOM	7860	HG13	VAL	X	516	35.903	19.113	45.741	0.00	0.00
ATOM	7861	CG2	VAL	X	516	34.709	18.769	42.539	0.00	0.00
ATOM	7862	HG21	VAL	X	516	34.865	19.789	42.188	0.00	0.00
ATOM	7863	HG22	VAL	X	516	33.712	18.676	42.969	0.00	0.00
ATOM	7864	HG23	VAL	X	516	34.820	18.071	41.709	0.00	0.00
ATOM	7865	C	VAL	X	516	38.067	18.530	44.600	0.00	0.00
ATOM	7866	O	VAL	X	516	38.222	17.342	44.943	0.00	0.00
ATOM	7867	N	ARG	X	517	38.572	19.519	45.329	0.00	0.00
ATOM	7868	H	ARG	X	517	38.230	20.465	45.236	0.00	0.00
ATOM	7869	CA	ARG	X	517	39.501	19.372	46.466	0.00	0.00
ATOM	7870	HA	ARG	X	517	39.431	18.342	46.816	0.00	0.00
ATOM	7871	CB	ARG	X	517	40.981	19.675	46.061	0.00	0.00
ATOM	7872	HB2	ARG	X	517	40.968	20.650	45.573	0.00	0.00
ATOM	7873	HB3	ARG	X	517	41.612	19.747	46.947	0.00	0.00
ATOM	7874	CG	ARG	X	517	41.654	18.740	45.057	0.00	0.00
ATOM	7875	HG2	ARG	X	517	41.684	17.711	45.414	0.00	0.00
ATOM	7876	HG3	ARG	X	517	41.045	18.746	44.152	0.00	0.00
ATOM	7877	CD	ARG	X	517	43.057	19.157	44.639	0.00	0.00
ATOM	7878	HD2	ARG	X	517	43.122	20.230	44.464	0.00	0.00
ATOM	7879	HD3	ARG	X	517	43.775	19.002	45.445	0.00	0.00
ATOM	7880	NE	ARG	X	517	43.484	18.544	43.365	0.00	0.00
ATOM	7881	HE	ARG	X	517	43.171	17.615	43.122	0.00	0.00
ATOM	7882	CZ	ARG	X	517	44.397	18.980	42.572	0.00	0.00
ATOM	7883	NH1	ARG	X	517	45.026	20.050	42.864	0.00	0.00
ATOM	7884	HH11	ARG	X	517	45.040	20.505	43.766	0.00	0.00
ATOM	7885	HH12	ARG	X	517	45.769	20.278	42.219	0.00	0.00
ATOM	7886	NH2	ARG	X	517	44.561	18.385	41.449	0.00	0.00
ATOM	7887	HH21	ARG	X	517	43.811	17.735	41.261	0.00	0.00
ATOM	7888	HH22	ARG	X	517	45.285	18.571	40.770	0.00	0.00
ATOM	7889	C	ARG	X	517	38.980	20.237	47.666	0.00	0.00
ATOM	7890	O	ARG	X	517	38.101	21.094	47.511	0.00	0.00
ATOM	7891	N	ARG	X	518	39.326	19.766	48.919	0.00	0.00
ATOM	7892	H	ARG	X	518	40.093	19.123	49.053	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.599	20.132	50.151	0.00	0.00
ATOM	7894	HA	ARG	X	518	37.767	20.780	49.875	0.00	0.00
ATOM	7895	CB	ARG	X	518	37.980	18.870	50.750	0.00	0.00
ATOM	7896	HB2	ARG	X	518	37.462	18.277	49.995	0.00	0.00
ATOM	7897	HB3	ARG	X	518	38.816	18.296	51.149	0.00	0.00
ATOM	7898	CG	ARG	X	518	36.892	19.072	51.851	0.00	0.00
ATOM	7899	HG2	ARG	X	518	37.365	19.434	52.764	0.00	0.00
ATOM	7900	HG3	ARG	X	518	36.102	19.729	51.487	0.00	0.00
ATOM	7901	CD	ARG	X	518	36.289	17.732	52.248	0.00	0.00
ATOM	7902	HD2	ARG	X	518	35.782	17.909	53.196	0.00	0.00
ATOM	7903	HD3	ARG	X	518	35.532	17.319	51.581	0.00	0.00
ATOM	7904	NE	ARG	X	518	37.342	16.770	52.501	0.00	0.00
ATOM	7905	HE	ARG	X	518	37.518	15.988	51.886	0.00	0.00
ATOM	7906	CZ	ARG	X	518	37.961	16.628	53.667	0.00	0.00
ATOM	7907	NH1	ARG	X	518	37.740	17.466	54.636	0.00	0.00
ATOM	7908	HH11	ARG	X	518	37.037	18.185	54.542	0.00	0.00
ATOM	7909	HH12	ARG	X	518	37.955	17.173	55.578	0.00	0.00
ATOM	7910	NH2	ARG	X	518	38.830	15.640	53.709	0.00	0.00
ATOM	7911	HH21	ARG	X	518	39.029	15.022	52.935	0.00	0.00
ATOM	7912	HH22	ARG	X	518	39.374	15.483	54.546	0.00	0.00
ATOM	7913	C	ARG	X	518	39.507	20.846	51.073	0.00	0.00
ATOM	7914	O	ARG	X	518	40.691	20.573	51.028	0.00	0.00
ATOM	7915	N	GLY	X	519	39.010	21.802	51.852	0.00	0.00
ATOM	7916	H	GLY	X	519	38.026	21.984	51.714	0.00	0.00
ATOM	7917	CA	GLY	X	519	39.808	22.629	52.756	0.00	0.00

ATOM	7918	HA2	GLY	X	519	39.030	23.099	53.357	0.00	0.00
ATOM	7919	HA3	GLY	X	519	40.405	22.034	53.448	0.00	0.00
ATOM	7920	C	GLY	X	519	40.717	23.679	52.095	0.00	0.00
ATOM	7921	O	GLY	X	519	41.932	23.569	52.167	0.00	0.00
ATOM	7922	N	LEU	X	520	40.220	24.831	51.563	0.00	0.00
ATOM	7923	H	LEU	X	520	39.210	24.821	51.543	0.00	0.00
ATOM	7924	CA	LEU	X	520	40.970	25.902	50.836	0.00	0.00
ATOM	7925	HA	LEU	X	520	41.608	25.408	50.104	0.00	0.00
ATOM	7926	CB	LEU	X	520	40.114	26.860	49.990	0.00	0.00
ATOM	7927	HB2	LEU	X	520	39.487	26.267	49.325	0.00	0.00
ATOM	7928	HB3	LEU	X	520	39.535	27.338	50.781	0.00	0.00
ATOM	7929	CG	LEU	X	520	40.949	27.908	49.246	0.00	0.00
ATOM	7930	HG	LEU	X	520	41.588	28.397	49.981	0.00	0.00
ATOM	7931	CD1	LEU	X	520	41.795	27.314	48.197	0.00	0.00
ATOM	7932	HD11	LEU	X	520	42.557	28.034	47.899	0.00	0.00
ATOM	7933	HD12	LEU	X	520	41.195	27.070	47.320	0.00	0.00
ATOM	7934	HD13	LEU	X	520	42.343	26.415	48.482	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.915	28.943	48.675	0.00	0.00
ATOM	7936	HD21	LEU	X	520	39.159	29.151	49.432	0.00	0.00
ATOM	7937	HD22	LEU	X	520	40.418	29.846	48.328	0.00	0.00
ATOM	7938	HD23	LEU	X	520	39.454	28.455	47.816	0.00	0.00
ATOM	7939	C	LEU	X	520	41.917	26.499	51.895	0.00	0.00
ATOM	7940	O	LEU	X	520	41.617	27.293	52.785	0.00	0.00
ATOM	7941	N	ARG	X	521	43.191	26.202	51.604	0.00	0.00
ATOM	7942	H	ARG	X	521	43.293	25.521	50.865	0.00	0.00
ATOM	7943	CA	ARG	X	521	44.472	26.551	52.300	0.00	0.00
ATOM	7944	HA	ARG	X	521	45.126	25.700	52.111	0.00	0.00
ATOM	7945	CB	ARG	X	521	44.948	27.894	51.781	0.00	0.00
ATOM	7946	HB2	ARG	X	521	44.932	27.984	50.695	0.00	0.00
ATOM	7947	HB3	ARG	X	521	44.372	28.700	52.236	0.00	0.00
ATOM	7948	CG	ARG	X	521	46.418	28.211	52.156	0.00	0.00
ATOM	7949	HG2	ARG	X	521	46.517	29.253	51.854	0.00	0.00
ATOM	7950	HG3	ARG	X	521	46.739	28.241	53.197	0.00	0.00
ATOM	7951	CD	ARG	X	521	47.403	27.338	51.355	0.00	0.00
ATOM	7952	HD2	ARG	X	521	47.342	26.312	51.718	0.00	0.00
ATOM	7953	HD3	ARG	X	521	46.982	27.350	50.350	0.00	0.00
ATOM	7954	NE	ARG	X	521	48.797	27.840	51.342	0.00	0.00
ATOM	7955	HE	ARG	X	521	48.934	28.730	51.798	0.00	0.00
ATOM	7956	CZ	ARG	X	521	49.868	27.218	50.817	0.00	0.00
ATOM	7957	NH1	ARG	X	521	49.847	26.007	50.144	0.00	0.00
ATOM	7958	HH11	ARG	X	521	49.027	25.421	50.213	0.00	0.00
ATOM	7959	HH12	ARG	X	521	50.671	25.494	49.865	0.00	0.00
ATOM	7960	NH2	ARG	X	521	50.956	27.821	50.851	0.00	0.00
ATOM	7961	HH21	ARG	X	521	51.001	28.791	51.127	0.00	0.00
ATOM	7962	HH22	ARG	X	521	51.797	27.348	50.556	0.00	0.00
ATOM	7963	C	ARG	X	521	44.270	26.488	53.827	0.00	0.00
ATOM	7964	O	ARG	X	521	44.742	27.370	54.588	0.00	0.00
ATOM	7965	N	ALA	X	522	43.422	25.515	54.246	0.00	0.00
ATOM	7966	H	ALA	X	522	43.167	24.838	53.542	0.00	0.00
ATOM	7967	CA	ALA	X	522	42.756	25.565	55.530	0.00	0.00
ATOM	7968	HA	ALA	X	522	42.124	26.453	55.484	0.00	0.00
ATOM	7969	CB	ALA	X	522	41.757	24.377	55.550	0.00	0.00
ATOM	7970	HB1	ALA	X	522	42.291	23.439	55.396	0.00	0.00
ATOM	7971	HB2	ALA	X	522	41.144	24.415	54.650	0.00	0.00
ATOM	7972	HB3	ALA	X	522	41.203	24.394	56.488	0.00	0.00
ATOM	7973	C	ALA	X	522	43.621	25.436	56.818	0.00	0.00
ATOM	7974	O	ALA	X	522	43.114	25.997	57.772	0.00	0.00
ATOM	7975	N	GLN	X	523	44.785	24.719	56.915	0.00	0.00
ATOM	7976	H	GLN	X	523	45.254	24.583	56.031	0.00	0.00
ATOM	7977	CA	GLN	X	523	45.552	24.703	58.101	0.00	0.00
ATOM	7978	HA	GLN	X	523	44.821	24.653	58.908	0.00	0.00
ATOM	7979	CB	GLN	X	523	46.327	23.354	58.124	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.808	23.329	57.146	0.00	0.00
ATOM	7981	HB3	GLN	X	523	47.032	23.415	58.953	0.00	0.00
ATOM	7982	CG	GLN	X	523	45.372	22.192	58.489	0.00	0.00
ATOM	7983	HG2	GLN	X	523	44.996	22.298	59.507	0.00	0.00
ATOM	7984	HG3	GLN	X	523	44.524	22.105	57.810	0.00	0.00

ATOM	7985	CD	GLN	X	523	46.118	20.807	58.544	0.00	0.00
ATOM	7986	OE1	GLN	X	523	47.189	20.623	57.948	0.00	0.00
ATOM	7987	NE2	GLN	X	523	45.597	19.854	59.260	0.00	0.00
ATOM	7988	HE21	GLN	X	523	45.973	18.930	59.107	0.00	0.00
ATOM	7989	HE22	GLN	X	523	44.689	20.021	59.671	0.00	0.00
ATOM	7990	C	GLN	X	523	46.557	25.858	58.234	0.00	0.00
ATOM	7991	O	GLN	X	523	46.552	26.478	59.296	0.00	0.00
ATOM	7992	N	ALA	X	524	47.173	26.243	57.092	0.00	0.00
ATOM	7993	H	ALA	X	524	47.184	25.647	56.277	0.00	0.00
ATOM	7994	CA	ALA	X	524	48.201	27.280	57.097	0.00	0.00
ATOM	7995	HA	ALA	X	524	49.092	26.995	57.657	0.00	0.00
ATOM	7996	CB	ALA	X	524	48.625	27.458	55.580	0.00	0.00
ATOM	7997	HB1	ALA	X	524	47.854	27.520	54.812	0.00	0.00
ATOM	7998	HB2	ALA	X	524	49.374	26.739	55.247	0.00	0.00
ATOM	7999	HB3	ALA	X	524	49.205	28.378	55.516	0.00	0.00
ATOM	8000	C	ALA	X	524	47.564	28.560	57.762	0.00	0.00
ATOM	8001	O	ALA	X	524	47.985	29.120	58.759	0.00	0.00
ATOM	8002	N	CYX	X	525	46.491	29.056	57.128	0.00	0.00
ATOM	8003	H	CYX	X	525	46.302	28.672	56.213	0.00	0.00
ATOM	8004	CA	CYX	X	525	45.716	30.156	57.533	0.00	0.00
ATOM	8005	HA	CYX	X	525	46.299	31.058	57.346	0.00	0.00
ATOM	8006	CB	CYX	X	525	44.485	30.259	56.553	0.00	0.00
ATOM	8007	HB2	CYX	X	525	43.954	29.315	56.674	0.00	0.00
ATOM	8008	HB3	CYX	X	525	43.788	30.981	56.979	0.00	0.00
ATOM	8009	SG	CYX	X	525	44.825	30.500	54.860	0.00	0.00
ATOM	8010	C	CYX	X	525	45.316	30.243	59.041	0.00	0.00
ATOM	8011	O	CYX	X	525	45.168	31.370	59.473	0.00	0.00
ATOM	8012	N	ALA	X	526	45.283	29.165	59.857	0.00	0.00
ATOM	8013	H	ALA	X	526	45.473	28.235	59.511	0.00	0.00
ATOM	8014	CA	ALA	X	526	45.148	29.181	61.356	0.00	0.00
ATOM	8015	HA	ALA	X	526	44.156	29.579	61.570	0.00	0.00
ATOM	8016	CB	ALA	X	526	45.331	27.749	61.833	0.00	0.00
ATOM	8017	HB1	ALA	X	526	45.174	27.741	62.911	0.00	0.00
ATOM	8018	HB2	ALA	X	526	46.336	27.365	61.657	0.00	0.00
ATOM	8019	HB3	ALA	X	526	44.575	27.145	61.331	0.00	0.00
ATOM	8020	C	ALA	X	526	46.235	30.004	61.953	0.00	0.00
ATOM	8021	O	ALA	X	526	46.055	30.728	62.959	0.00	0.00
ATOM	8022	N	PHE	X	527	47.475	29.790	61.541	0.00	0.00
ATOM	8023	H	PHE	X	527	47.515	29.199	60.723	0.00	0.00
ATOM	8024	CA	PHE	X	527	48.629	30.516	61.968	0.00	0.00
ATOM	8025	HA	PHE	X	527	48.700	30.361	63.045	0.00	0.00
ATOM	8026	CB	PHE	X	527	49.881	30.035	61.253	0.00	0.00
ATOM	8027	HB2	PHE	X	527	50.001	28.982	61.509	0.00	0.00
ATOM	8028	HB3	PHE	X	527	49.810	30.163	60.173	0.00	0.00
ATOM	8029	CG	PHE	X	527	51.243	30.636	61.620	0.00	0.00
ATOM	8030	CD1	PHE	X	527	52.025	30.087	62.735	0.00	0.00
ATOM	8031	HD1	PHE	X	527	51.490	29.365	63.334	0.00	0.00
ATOM	8032	CE1	PHE	X	527	53.345	30.472	62.991	0.00	0.00
ATOM	8033	HE1	PHE	X	527	53.955	30.044	63.773	0.00	0.00
ATOM	8034	CZ	PHE	X	527	53.880	31.437	62.099	0.00	0.00
ATOM	8035	HZ	PHE	X	527	54.876	31.841	62.206	0.00	0.00
ATOM	8036	CE2	PHE	X	527	53.101	32.037	61.013	0.00	0.00
ATOM	8037	HE2	PHE	X	527	53.731	32.490	60.261	0.00	0.00
ATOM	8038	CD2	PHE	X	527	51.747	31.669	60.857	0.00	0.00
ATOM	8039	HD2	PHE	X	527	51.273	31.995	59.944	0.00	0.00
ATOM	8040	C	PHE	X	527	48.427	32.003	61.647	0.00	0.00
ATOM	8041	O	PHE	X	527	48.625	32.854	62.568	0.00	0.00
ATOM	8042	N	TRP	X	528	48.080	32.408	60.401	0.00	0.00
ATOM	8043	H	TRP	X	528	48.048	31.721	59.662	0.00	0.00
ATOM	8044	CA	TRP	X	528	47.956	33.833	60.113	0.00	0.00
ATOM	8045	HA	TRP	X	528	48.882	34.362	60.342	0.00	0.00
ATOM	8046	CB	TRP	X	528	47.710	33.987	58.640	0.00	0.00
ATOM	8047	HB2	TRP	X	528	47.024	33.281	58.171	0.00	0.00
ATOM	8048	HB3	TRP	X	528	47.363	34.956	58.283	0.00	0.00
ATOM	8049	CG	TRP	X	528	48.992	33.661	57.896	0.00	0.00
ATOM	8050	CD1	TRP	X	528	49.251	32.591	57.198	0.00	0.00
ATOM	8051	HD1	TRP	X	528	48.462	31.892	56.963	0.00	0.00

ATOM	8052	NE1	TRP	X	528	50.559	32.419	56.788	0.00	0.00
ATOM	8053	HE1	TRP	X	528	50.914	31.674	56.205	0.00	0.00
ATOM	8054	CE2	TRP	X	528	51.304	33.418	57.274	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	52.715	33.637	57.224	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	53.365	32.971	56.676	0.00	0.00
ATOM	8057	CH2	TRP	X	528	53.201	34.795	57.795	0.00	0.00
ATOM	8058	HH2	TRP	X	528	54.225	35.124	57.695	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	52.332	35.692	58.513	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	52.670	36.595	59.000	0.00	0.00
ATOM	8061	CE3	TRP	X	528	50.942	35.443	58.563	0.00	0.00
ATOM	8062	HE3	TRP	X	528	50.344	35.994	59.274	0.00	0.00
ATOM	8063	CD2	TRP	X	528	50.387	34.269	58.021	0.00	0.00
ATOM	8064	C	TRP	X	528	46.808	34.595	60.800	0.00	0.00
ATOM	8065	O	TRP	X	528	46.968	35.797	61.115	0.00	0.00
ATOM	8066	N	ASN	X	529	45.771	33.798	61.150	0.00	0.00
ATOM	8067	H	ASN	X	529	45.939	32.837	60.887	0.00	0.00
ATOM	8068	CA	ASN	X	529	44.649	34.228	61.970	0.00	0.00
ATOM	8069	HA	ASN	X	529	44.293	35.247	61.815	0.00	0.00
ATOM	8070	CB	ASN	X	529	43.452	33.373	61.590	0.00	0.00
ATOM	8071	HB2	ASN	X	529	43.802	32.358	61.778	0.00	0.00
ATOM	8072	HB3	ASN	X	529	42.622	33.628	62.249	0.00	0.00
ATOM	8073	CG	ASN	X	529	43.003	33.397	60.147	0.00	0.00
ATOM	8074	OD1	ASN	X	529	43.358	34.137	59.259	0.00	0.00
ATOM	8075	ND2	ASN	X	529	41.975	32.610	59.893	0.00	0.00
ATOM	8076	HD21	ASN	X	529	41.595	32.581	58.958	0.00	0.00
ATOM	8077	HD22	ASN	X	529	41.822	31.909	60.604	0.00	0.00
ATOM	8078	C	ASN	X	529	44.818	34.164	63.487	0.00	0.00
ATOM	8079	O	ASN	X	529	44.253	35.087	64.083	0.00	0.00
ATOM	8080	N	ARG	X	530	45.690	33.295	64.068	0.00	0.00
ATOM	8081	H	ARG	X	530	46.259	32.671	63.514	0.00	0.00
ATOM	8082	CA	ARG	X	530	45.719	33.143	65.535	0.00	0.00
ATOM	8083	HA	ARG	X	530	45.518	34.103	66.011	0.00	0.00
ATOM	8084	CB	ARG	X	530	44.858	32.035	66.145	0.00	0.00
ATOM	8085	HB2	ARG	X	530	45.184	31.150	65.598	0.00	0.00
ATOM	8086	HB3	ARG	X	530	45.250	31.982	67.161	0.00	0.00
ATOM	8087	CG	ARG	X	530	43.356	32.265	66.042	0.00	0.00
ATOM	8088	HG2	ARG	X	530	43.146	33.053	66.766	0.00	0.00
ATOM	8089	HG3	ARG	X	530	43.042	32.534	65.033	0.00	0.00
ATOM	8090	CD	ARG	X	530	42.492	31.021	66.447	0.00	0.00
ATOM	8091	HD2	ARG	X	530	42.889	30.713	67.415	0.00	0.00
ATOM	8092	HD3	ARG	X	530	41.442	31.284	66.570	0.00	0.00
ATOM	8093	NE	ARG	X	530	42.539	30.037	65.367	0.00	0.00
ATOM	8094	HE	ARG	X	530	41.925	30.236	64.590	0.00	0.00
ATOM	8095	CZ	ARG	X	530	42.970	28.752	65.396	0.00	0.00
ATOM	8096	NH1	ARG	X	530	43.789	28.415	66.351	0.00	0.00
ATOM	8097	HH11	ARG	X	530	43.899	28.958	67.195	0.00	0.00
ATOM	8098	HH12	ARG	X	530	44.157	27.475	66.383	0.00	0.00
ATOM	8099	NH2	ARG	X	530	42.775	27.941	64.432	0.00	0.00
ATOM	8100	HH21	ARG	X	530	41.983	28.146	63.839	0.00	0.00
ATOM	8101	HH22	ARG	X	530	43.270	27.066	64.334	0.00	0.00
ATOM	8102	C	ARG	X	530	47.190	33.014	66.053	0.00	0.00
ATOM	8103	O	ARG	X	530	47.576	33.880	66.876	0.00	0.00
ATOM	8104	N	PHE	X	531	47.877	31.964	65.727	0.00	0.00
ATOM	8105	H	PHE	X	531	47.319	31.303	65.204	0.00	0.00
ATOM	8106	CA	PHE	X	531	49.158	31.612	66.283	0.00	0.00
ATOM	8107	HA	PHE	X	531	49.035	31.350	67.333	0.00	0.00
ATOM	8108	CB	PHE	X	531	49.603	30.328	65.594	0.00	0.00
ATOM	8109	HB2	PHE	X	531	48.761	29.637	65.585	0.00	0.00
ATOM	8110	HB3	PHE	X	531	49.845	30.569	64.558	0.00	0.00
ATOM	8111	CG	PHE	X	531	50.846	29.632	66.014	0.00	0.00
ATOM	8112	CD1	PHE	X	531	52.120	30.193	66.026	0.00	0.00
ATOM	8113	HD1	PHE	X	531	52.333	31.218	65.762	0.00	0.00
ATOM	8114	CE1	PHE	X	531	53.242	29.481	66.438	0.00	0.00
ATOM	8115	HE1	PHE	X	531	54.244	29.861	66.303	0.00	0.00
ATOM	8116	CZ	PHE	X	531	53.105	28.205	66.927	0.00	0.00
ATOM	8117	HZ	PHE	X	531	53.948	27.570	67.158	0.00	0.00
ATOM	8118	CE2	PHE	X	531	51.801	27.625	67.102	0.00	0.00

ATOM	8119	HE2	PHE	X	531	51.623	26.639	67.504	0.00	0.00
ATOM	8120	CD2	PHE	X	531	50.729	28.346	66.649	0.00	0.00
ATOM	8121	HD2	PHE	X	531	49.790	27.815	66.694	0.00	0.00
ATOM	8122	C	PHE	X	531	50.191	32.772	66.106	0.00	0.00
ATOM	8123	O	PHE	X	531	50.880	33.078	67.020	0.00	0.00
ATOM	8124	N	LEU	X	532	50.281	33.403	64.919	0.00	0.00
ATOM	8125	H	LEU	X	532	49.798	33.190	64.058	0.00	0.00
ATOM	8126	CA	LEU	X	532	51.359	34.464	64.687	0.00	0.00
ATOM	8127	HA	LEU	X	532	52.102	34.169	65.428	0.00	0.00
ATOM	8128	CB	LEU	X	532	51.737	34.280	63.205	0.00	0.00
ATOM	8129	HB2	LEU	X	532	51.980	33.222	63.108	0.00	0.00
ATOM	8130	HB3	LEU	X	532	50.860	34.540	62.611	0.00	0.00
ATOM	8131	CG	LEU	X	532	52.906	35.168	62.622	0.00	0.00
ATOM	8132	HG	LEU	X	532	53.027	34.858	61.584	0.00	0.00
ATOM	8133	CD1	LEU	X	532	52.564	36.695	62.385	0.00	0.00
ATOM	8134	HD11	LEU	X	532	51.869	36.715	61.545	0.00	0.00
ATOM	8135	HD12	LEU	X	532	53.441	37.264	62.077	0.00	0.00
ATOM	8136	HD13	LEU	X	532	52.206	37.195	63.285	0.00	0.00
ATOM	8137	CD2	LEU	X	532	54.286	34.998	63.276	0.00	0.00
ATOM	8138	HD21	LEU	X	532	54.186	35.220	64.338	0.00	0.00
ATOM	8139	HD22	LEU	X	532	54.624	33.966	63.178	0.00	0.00
ATOM	8140	HD23	LEU	X	532	55.011	35.617	62.747	0.00	0.00
ATOM	8141	C	LEU	X	532	50.962	35.813	65.204	0.00	0.00
ATOM	8142	O	LEU	X	532	51.808	36.401	65.874	0.00	0.00
ATOM	8143	N	PRO	X	533	49.780	36.375	64.936	0.00	0.00
ATOM	8144	CD	PRO	X	533	48.702	35.983	64.014	0.00	0.00
ATOM	8145	HD2	PRO	X	533	48.149	35.145	64.438	0.00	0.00
ATOM	8146	HD3	PRO	X	533	49.222	35.728	63.090	0.00	0.00
ATOM	8147	CG	PRO	X	533	47.824	37.132	63.836	0.00	0.00
ATOM	8148	HG2	PRO	X	533	46.789	36.832	63.669	0.00	0.00
ATOM	8149	HG3	PRO	X	533	47.983	37.800	62.989	0.00	0.00
ATOM	8150	CB	PRO	X	533	47.908	37.959	65.118	0.00	0.00
ATOM	8151	HB2	PRO	X	533	47.146	37.653	65.835	0.00	0.00
ATOM	8152	HB3	PRO	X	533	47.877	39.013	64.843	0.00	0.00
ATOM	8153	CA	PRO	X	533	49.337	37.656	65.561	0.00	0.00
ATOM	8154	HA	PRO	X	533	49.981	38.483	65.261	0.00	0.00
ATOM	8155	C	PRO	X	533	49.570	37.621	67.116	0.00	0.00
ATOM	8156	O	PRO	X	533	49.913	38.651	67.693	0.00	0.00
ATOM	8157	N	LYS	X	534	49.380	36.481	67.800	0.00	0.00
ATOM	8158	H	LYS	X	534	48.982	35.691	67.314	0.00	0.00
ATOM	8159	CA	LYS	X	534	49.575	36.420	69.269	0.00	0.00
ATOM	8160	HA	LYS	X	534	49.025	37.261	69.689	0.00	0.00
ATOM	8161	CB	LYS	X	534	48.956	35.077	69.754	0.00	0.00
ATOM	8162	HB2	LYS	X	534	47.868	35.059	69.694	0.00	0.00
ATOM	8163	HB3	LYS	X	534	49.402	34.267	69.177	0.00	0.00
ATOM	8164	CG	LYS	X	534	49.345	34.852	71.233	0.00	0.00
ATOM	8165	HG2	LYS	X	534	50.419	34.766	71.396	0.00	0.00
ATOM	8166	HG3	LYS	X	534	49.029	35.728	71.800	0.00	0.00
ATOM	8167	CD	LYS	X	534	48.430	33.676	71.796	0.00	0.00
ATOM	8168	HD2	LYS	X	534	47.403	34.038	71.755	0.00	0.00
ATOM	8169	HD3	LYS	X	534	48.427	32.767	71.195	0.00	0.00
ATOM	8170	CE	LYS	X	534	48.868	33.338	73.200	0.00	0.00
ATOM	8171	HE2	LYS	X	534	48.244	32.579	73.670	0.00	0.00
ATOM	8172	HE3	LYS	X	534	49.868	32.905	73.156	0.00	0.00
ATOM	8173	NZ	LYS	X	534	48.775	34.529	74.106	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	49.566	35.110	73.870	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	47.864	34.928	73.929	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	48.902	34.372	75.096	0.00	0.00
ATOM	8177	C	LYS	X	534	50.991	36.779	69.716	0.00	0.00
ATOM	8178	O	LYS	X	534	51.108	37.561	70.695	0.00	0.00
ATOM	8179	N	LEU	X	535	51.992	36.479	68.885	0.00	0.00
ATOM	8180	H	LEU	X	535	51.747	35.971	68.047	0.00	0.00
ATOM	8181	CA	LEU	X	535	53.292	36.890	69.087	0.00	0.00
ATOM	8182	HA	LEU	X	535	53.486	36.695	70.142	0.00	0.00
ATOM	8183	CB	LEU	X	535	54.284	36.157	68.170	0.00	0.00
ATOM	8184	HB2	LEU	X	535	53.968	36.190	67.128	0.00	0.00
ATOM	8185	HB3	LEU	X	535	55.293	36.563	68.250	0.00	0.00

ATOM	8186	CG	LEU	X	535	54.495	34.629	68.442	0.00	0.00
ATOM	8187	HG	LEU	X	535	53.589	34.125	68.106	0.00	0.00
ATOM	8188	CD1	LEU	X	535	55.751	33.973	67.868	0.00	0.00
ATOM	8189	HD11	LEU	X	535	55.792	34.205	66.803	0.00	0.00
ATOM	8190	HD12	LEU	X	535	55.639	32.890	67.924	0.00	0.00
ATOM	8191	HD13	LEU	X	535	56.657	34.403	68.296	0.00	0.00
ATOM	8192	CD2	LEU	X	535	54.641	34.379	69.951	0.00	0.00
ATOM	8193	HD21	LEU	X	535	55.586	34.734	70.363	0.00	0.00
ATOM	8194	HD22	LEU	X	535	53.867	34.743	70.628	0.00	0.00
ATOM	8195	HD23	LEU	X	535	54.585	33.296	70.056	0.00	0.00
ATOM	8196	C	LEU	X	535	53.609	38.386	68.768	0.00	0.00
ATOM	8197	O	LEU	X	535	54.444	39.039	69.362	0.00	0.00
ATOM	8198	N	LEU	X	536	52.878	38.876	67.752	0.00	0.00
ATOM	8199	H	LEU	X	536	52.214	38.285	67.274	0.00	0.00
ATOM	8200	CA	LEU	X	536	52.945	40.283	67.166	0.00	0.00
ATOM	8201	HA	LEU	X	536	53.972	40.538	66.906	0.00	0.00
ATOM	8202	CB	LEU	X	536	52.224	40.304	65.810	0.00	0.00
ATOM	8203	HB2	LEU	X	536	52.833	39.564	65.290	0.00	0.00
ATOM	8204	HB3	LEU	X	536	51.165	40.046	65.820	0.00	0.00
ATOM	8205	CG	LEU	X	536	52.232	41.713	65.101	0.00	0.00
ATOM	8206	HG	LEU	X	536	51.677	42.461	65.667	0.00	0.00
ATOM	8207	CD1	LEU	X	536	53.615	42.317	64.809	0.00	0.00
ATOM	8208	HD11	LEU	X	536	54.198	41.484	64.417	0.00	0.00
ATOM	8209	HD12	LEU	X	536	54.156	42.735	65.658	0.00	0.00
ATOM	8210	HD13	LEU	X	536	53.503	42.992	63.960	0.00	0.00
ATOM	8211	CD2	LEU	X	536	51.448	41.550	63.772	0.00	0.00
ATOM	8212	HD21	LEU	X	536	50.497	41.088	64.038	0.00	0.00
ATOM	8213	HD22	LEU	X	536	51.345	42.434	63.143	0.00	0.00
ATOM	8214	HD23	LEU	X	536	52.025	40.918	63.097	0.00	0.00
ATOM	8215	C	LEU	X	536	52.414	41.211	68.208	0.00	0.00
ATOM	8216	O	LEU	X	536	52.918	42.308	68.323	0.00	0.00
ATOM	8217	N	SER	X	537	51.362	40.793	68.905	0.00	0.00
ATOM	8218	H	SER	X	537	50.886	39.963	68.582	0.00	0.00
ATOM	8219	CA	SER	X	537	50.742	41.485	70.064	0.00	0.00
ATOM	8220	HA	SER	X	537	50.503	42.532	69.878	0.00	0.00
ATOM	8221	CB	SER	X	537	49.440	40.806	70.382	0.00	0.00
ATOM	8222	HB2	SER	X	537	49.595	39.729	70.451	0.00	0.00
ATOM	8223	HB3	SER	X	537	49.155	41.127	71.384	0.00	0.00
ATOM	8224	OG	SER	X	537	48.315	41.083	69.522	0.00	0.00
ATOM	8225	HG	SER	X	537	47.977	41.932	69.816	0.00	0.00
ATOM	8226	C	SER	X	537	51.510	41.562	71.367	0.00	0.00
ATOM	8227	O	SER	X	537	51.747	42.654	71.798	0.00	0.00
ATOM	8228	N	ALA	X	538	52.140	40.429	71.757	0.00	0.00
ATOM	8229	H	ALA	X	538	51.877	39.587	71.266	0.00	0.00
ATOM	8230	CA	ALA	X	538	53.313	40.326	72.670	0.00	0.00
ATOM	8231	HA	ALA	X	538	53.962	41.165	72.420	0.00	0.00
ATOM	8232	CB	ALA	X	538	52.908	40.496	74.136	0.00	0.00
ATOM	8233	HB1	ALA	X	538	53.864	40.574	74.653	0.00	0.00
ATOM	8234	HB2	ALA	X	538	52.261	39.687	74.474	0.00	0.00
ATOM	8235	HB3	ALA	X	538	52.479	41.498	74.130	0.00	0.00
ATOM	8236	C	ALA	X	538	54.009	38.971	72.491	0.00	0.00
ATOM	8237	O	ALA	X	538	53.380	37.921	72.454	0.00	0.00
ATOM	8238	N	THR	X	539	55.352	39.049	72.378	0.00	0.00
ATOM	8239	H	THR	X	539	55.786	39.952	72.507	0.00	0.00
ATOM	8240	CA	THR	X	539	56.248	37.891	72.055	0.00	0.00
ATOM	8241	HA	THR	X	539	55.633	37.108	71.612	0.00	0.00
ATOM	8242	CB	THR	X	539	57.314	38.298	71.072	0.00	0.00
ATOM	8243	HB	THR	X	539	58.110	38.837	71.585	0.00	0.00
ATOM	8244	CG2	THR	X	539	57.780	37.086	70.274	0.00	0.00
ATOM	8245	HG21	THR	X	539	58.649	37.386	69.689	0.00	0.00
ATOM	8246	HG22	THR	X	539	56.953	36.749	69.649	0.00	0.00
ATOM	8247	HG23	THR	X	539	58.076	36.313	70.983	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.932	39.258	70.154	0.00	0.00
ATOM	8249	HG1	THR	X	539	56.014	39.055	69.957	0.00	0.00
ATOM	8250	C	THR	X	539	56.817	37.324	73.390	0.00	0.00
ATOM	8251	O	THR	X	539	57.326	38.164	74.192	0.00	0.00
ATOM	8252	OXT	THR	X	539	56.746	36.085	73.524	0.00	0.00

END

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1B41 Production MD Frame 1400
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CRYST1	82.065	82.065	82.065	90.00	90.00	90.00	P 1		1
ATOM	1	N	ASP X	1	29.749	47.072	6.147	0.00	0.00
ATOM	2	H1	ASP X	1	29.179	47.514	5.440	0.00	0.00
ATOM	3	H2	ASP X	1	29.195	46.339	6.567	0.00	0.00
ATOM	4	H3	ASP X	1	30.463	46.714	5.530	0.00	0.00
ATOM	5	CA	ASP X	1	30.390	47.979	7.156	0.00	0.00
ATOM	6	HA	ASP X	1	31.158	47.517	7.776	0.00	0.00
ATOM	7	CB	ASP X	1	31.277	48.964	6.372	0.00	0.00
ATOM	8	HB2	ASP X	1	31.934	48.415	5.698	0.00	0.00
ATOM	9	HB3	ASP X	1	30.742	49.558	5.631	0.00	0.00
ATOM	10	CG	ASP X	1	32.010	49.956	7.178	0.00	0.00
ATOM	11	OD1	ASP X	1	31.758	51.165	7.026	0.00	0.00
ATOM	12	OD2	ASP X	1	33.003	49.596	7.796	0.00	0.00
ATOM	13	C	ASP X	1	29.550	48.839	7.985	0.00	0.00
ATOM	14	O	ASP X	1	29.829	48.861	9.157	0.00	0.00
ATOM	15	N	ALA X	2	28.514	49.507	7.393	0.00	0.00
ATOM	16	H	ALA X	2	28.375	49.427	6.396	0.00	0.00
ATOM	17	CA	ALA X	2	27.623	50.362	8.184	0.00	0.00
ATOM	18	HA	ALA X	2	28.152	51.254	8.520	0.00	0.00
ATOM	19	CB	ALA X	2	26.475	50.801	7.232	0.00	0.00
ATOM	20	HB1	ALA X	2	26.067	50.050	6.555	0.00	0.00
ATOM	21	HB2	ALA X	2	26.799	51.695	6.700	0.00	0.00
ATOM	22	HB3	ALA X	2	25.616	51.139	7.812	0.00	0.00
ATOM	23	C	ALA X	2	27.123	49.700	9.517	0.00	0.00
ATOM	24	O	ALA X	2	26.996	50.329	10.537	0.00	0.00
ATOM	25	N	GLU X	3	27.057	48.366	9.442	0.00	0.00
ATOM	26	H	GLU X	3	27.173	48.012	8.503	0.00	0.00
ATOM	27	CA	GLU X	3	26.820	47.325	10.544	0.00	0.00
ATOM	28	HA	GLU X	3	25.769	47.320	10.832	0.00	0.00
ATOM	29	CB	GLU X	3	27.115	45.852	10.135	0.00	0.00
ATOM	30	HB2	GLU X	3	28.194	45.708	10.187	0.00	0.00
ATOM	31	HB3	GLU X	3	26.687	45.326	10.989	0.00	0.00
ATOM	32	CG	GLU X	3	26.365	45.396	8.948	0.00	0.00
ATOM	33	HG2	GLU X	3	26.135	44.350	9.155	0.00	0.00
ATOM	34	HG3	GLU X	3	25.411	45.913	8.847	0.00	0.00
ATOM	35	CD	GLU X	3	27.093	45.594	7.566	0.00	0.00
ATOM	36	OE1	GLU X	3	27.504	44.569	6.994	0.00	0.00
ATOM	37	OE2	GLU X	3	27.389	46.771	7.233	0.00	0.00
ATOM	38	C	GLU X	3	27.636	47.651	11.897	0.00	0.00
ATOM	39	O	GLU X	3	27.191	47.448	13.030	0.00	0.00
ATOM	40	N	LEU X	4	28.910	48.082	11.739	0.00	0.00
ATOM	41	H	LEU X	4	29.297	48.167	10.810	0.00	0.00
ATOM	42	CA	LEU X	4	29.835	48.126	12.913	0.00	0.00
ATOM	43	HA	LEU X	4	29.618	47.353	13.650	0.00	0.00
ATOM	44	CB	LEU X	4	31.295	47.869	12.290	0.00	0.00
ATOM	45	HB2	LEU X	4	31.505	48.567	11.480	0.00	0.00
ATOM	46	HB3	LEU X	4	32.050	48.033	13.060	0.00	0.00
ATOM	47	CG	LEU X	4	31.630	46.460	11.678	0.00	0.00
ATOM	48	HG	LEU X	4	30.779	46.199	11.049	0.00	0.00
ATOM	49	CD1	LEU X	4	32.926	46.525	10.837	0.00	0.00
ATOM	50	HD11	LEU X	4	32.733	47.110	9.937	0.00	0.00
ATOM	51	HD12	LEU X	4	33.302	45.536	10.576	0.00	0.00
ATOM	52	HD13	LEU X	4	33.739	47.032	11.356	0.00	0.00
ATOM	53	CD2	LEU X	4	31.851	45.457	12.790	0.00	0.00
ATOM	54	HD21	LEU X	4	31.877	44.496	12.275	0.00	0.00
ATOM	55	HD22	LEU X	4	32.784	45.754	13.269	0.00	0.00
ATOM	56	HD23	LEU X	4	30.980	45.438	13.445	0.00	0.00
ATOM	57	C	LEU X	4	29.719	49.510	13.612	0.00	0.00
ATOM	58	O	LEU X	4	30.265	49.838	14.678	0.00	0.00

ATOM	59	N	LEU	X	5	28.860	50.427	13.112	0.00	0.00
ATOM	60	H	LEU	X	5	28.260	50.142	12.352	0.00	0.00
ATOM	61	CA	LEU	X	5	28.521	51.577	13.945	0.00	0.00
ATOM	62	HA	LEU	X	5	29.343	51.955	14.553	0.00	0.00
ATOM	63	CB	LEU	X	5	28.076	52.697	13.009	0.00	0.00
ATOM	64	HB2	LEU	X	5	27.281	52.357	12.346	0.00	0.00
ATOM	65	HB3	LEU	X	5	27.539	53.434	13.606	0.00	0.00
ATOM	66	CG	LEU	X	5	29.184	53.399	12.225	0.00	0.00
ATOM	67	HG	LEU	X	5	30.095	53.343	12.822	0.00	0.00
ATOM	68	CD1	LEU	X	5	29.541	52.800	10.905	0.00	0.00
ATOM	69	HD11	LEU	X	5	28.605	52.877	10.353	0.00	0.00
ATOM	70	HD12	LEU	X	5	29.813	51.746	10.966	0.00	0.00
ATOM	71	HD13	LEU	X	5	30.355	53.280	10.361	0.00	0.00
ATOM	72	CD2	LEU	X	5	28.898	54.940	12.238	0.00	0.00
ATOM	73	HD21	LEU	X	5	29.626	55.494	11.644	0.00	0.00
ATOM	74	HD22	LEU	X	5	27.912	55.232	11.876	0.00	0.00
ATOM	75	HD23	LEU	X	5	28.872	55.357	13.245	0.00	0.00
ATOM	76	C	LEU	X	5	27.357	51.267	14.918	0.00	0.00
ATOM	77	O	LEU	X	5	26.540	50.420	14.692	0.00	0.00
ATOM	78	N	VAL	X	6	27.264	52.017	16.028	0.00	0.00
ATOM	79	H	VAL	X	6	27.961	52.738	16.152	0.00	0.00
ATOM	80	CA	VAL	X	6	26.303	51.818	17.125	0.00	0.00
ATOM	81	HA	VAL	X	6	25.378	51.448	16.683	0.00	0.00
ATOM	82	CB	VAL	X	6	26.889	50.756	18.059	0.00	0.00
ATOM	83	HB	VAL	X	6	27.120	49.900	17.425	0.00	0.00
ATOM	84	CG1	VAL	X	6	28.196	51.171	18.829	0.00	0.00
ATOM	85	HG11	VAL	X	6	28.922	51.622	18.152	0.00	0.00
ATOM	86	HG12	VAL	X	6	27.990	51.910	19.603	0.00	0.00
ATOM	87	HG13	VAL	X	6	28.665	50.296	19.279	0.00	0.00
ATOM	88	CG2	VAL	X	6	25.888	50.352	19.064	0.00	0.00
ATOM	89	HG21	VAL	X	6	25.840	50.928	19.988	0.00	0.00
ATOM	90	HG22	VAL	X	6	26.159	49.380	19.478	0.00	0.00
ATOM	91	HG23	VAL	X	6	24.927	50.278	18.555	0.00	0.00
ATOM	92	C	VAL	X	6	26.021	53.073	17.878	0.00	0.00
ATOM	93	O	VAL	X	6	26.893	53.966	17.846	0.00	0.00
ATOM	94	N	THR	X	7	24.916	53.245	18.594	0.00	0.00
ATOM	95	H	THR	X	7	24.286	52.455	18.608	0.00	0.00
ATOM	96	CA	THR	X	7	24.515	54.543	19.171	0.00	0.00
ATOM	97	HA	THR	X	7	25.318	55.275	19.098	0.00	0.00
ATOM	98	CB	THR	X	7	23.330	55.182	18.423	0.00	0.00
ATOM	99	HB	THR	X	7	22.468	54.547	18.631	0.00	0.00
ATOM	100	CG2	THR	X	7	22.890	56.622	18.817	0.00	0.00
ATOM	101	HG21	THR	X	7	22.514	56.669	19.839	0.00	0.00
ATOM	102	HG22	THR	X	7	22.102	56.948	18.137	0.00	0.00
ATOM	103	HG23	THR	X	7	23.739	57.298	18.726	0.00	0.00
ATOM	104	OG1	THR	X	7	23.583	55.228	17.020	0.00	0.00
ATOM	105	HG1	THR	X	7	22.780	55.520	16.581	0.00	0.00
ATOM	106	C	THR	X	7	24.220	54.432	20.601	0.00	0.00
ATOM	107	O	THR	X	7	23.719	53.351	21.077	0.00	0.00
ATOM	108	N	VAL	X	8	24.519	55.429	21.429	0.00	0.00
ATOM	109	H	VAL	X	8	24.886	56.262	20.991	0.00	0.00
ATOM	110	CA	VAL	X	8	24.483	55.409	22.925	0.00	0.00
ATOM	111	HA	VAL	X	8	23.723	54.692	23.234	0.00	0.00
ATOM	112	CB	VAL	X	8	25.892	55.143	23.517	0.00	0.00
ATOM	113	HB	VAL	X	8	25.859	55.226	24.604	0.00	0.00
ATOM	114	CG1	VAL	X	8	26.310	53.694	23.234	0.00	0.00
ATOM	115	HG11	VAL	X	8	27.274	53.590	23.733	0.00	0.00
ATOM	116	HG12	VAL	X	8	25.534	53.011	23.577	0.00	0.00
ATOM	117	HG13	VAL	X	8	26.537	53.446	22.197	0.00	0.00
ATOM	118	CG2	VAL	X	8	26.904	56.143	22.897	0.00	0.00
ATOM	119	HG21	VAL	X	8	27.920	55.964	23.247	0.00	0.00
ATOM	120	HG22	VAL	X	8	26.632	57.146	23.225	0.00	0.00
ATOM	121	HG23	VAL	X	8	26.981	56.068	21.813	0.00	0.00
ATOM	122	C	VAL	X	8	23.958	56.753	23.465	0.00	0.00
ATOM	123	O	VAL	X	8	23.788	57.670	22.665	0.00	0.00
ATOM	124	N	ARG	X	9	23.790	56.899	24.817	0.00	0.00
ATOM	125	H	ARG	X	9	24.070	56.106	25.376	0.00	0.00

ATOM	126	CA	ARG	X	9	23.249	58.145	25.501	0.00	0.00
ATOM	127	HA	ARG	X	9	22.198	58.233	25.226	0.00	0.00
ATOM	128	CB	ARG	X	9	23.261	57.982	27.013	0.00	0.00
ATOM	129	HB2	ARG	X	9	22.597	57.143	27.222	0.00	0.00
ATOM	130	HB3	ARG	X	9	24.241	57.701	27.399	0.00	0.00
ATOM	131	CG	ARG	X	9	22.612	59.145	27.662	0.00	0.00
ATOM	132	HG2	ARG	X	9	23.298	59.986	27.567	0.00	0.00
ATOM	133	HG3	ARG	X	9	21.671	59.350	27.152	0.00	0.00
ATOM	134	CD	ARG	X	9	22.311	58.926	29.150	0.00	0.00
ATOM	135	HD2	ARG	X	9	21.746	58.005	29.298	0.00	0.00
ATOM	136	HD3	ARG	X	9	23.238	58.888	29.722	0.00	0.00
ATOM	137	NE	ARG	X	9	21.458	59.979	29.762	0.00	0.00
ATOM	138	HE	ARG	X	9	20.982	60.570	29.095	0.00	0.00
ATOM	139	CZ	ARG	X	9	21.259	60.280	31.031	0.00	0.00
ATOM	140	NH1	ARG	X	9	21.743	59.637	32.068	0.00	0.00
ATOM	141	HH11	ARG	X	9	22.318	58.809	32.003	0.00	0.00
ATOM	142	HH12	ARG	X	9	21.632	60.051	32.982	0.00	0.00
ATOM	143	NH2	ARG	X	9	20.579	61.312	31.276	0.00	0.00
ATOM	144	HH21	ARG	X	9	20.030	61.746	30.547	0.00	0.00
ATOM	145	HH22	ARG	X	9	20.415	61.552	32.243	0.00	0.00
ATOM	146	C	ARG	X	9	23.820	59.469	25.055	0.00	0.00
ATOM	147	O	ARG	X	9	22.981	60.401	24.824	0.00	0.00
ATOM	148	N	GLY	X	10	25.145	59.612	24.744	0.00	0.00
ATOM	149	H	GLY	X	10	25.687	58.765	24.837	0.00	0.00
ATOM	150	CA	GLY	X	10	25.848	60.824	24.235	0.00	0.00
ATOM	151	HA2	GLY	X	10	25.200	61.665	24.485	0.00	0.00
ATOM	152	HA3	GLY	X	10	26.795	60.921	24.766	0.00	0.00
ATOM	153	C	GLY	X	10	26.117	60.985	22.723	0.00	0.00
ATOM	154	O	GLY	X	10	26.466	62.030	22.286	0.00	0.00
ATOM	155	N	GLY	X	11	25.920	59.961	21.932	0.00	0.00
ATOM	156	H	GLY	X	11	25.612	59.117	22.392	0.00	0.00
ATOM	157	CA	GLY	X	11	25.939	59.908	20.459	0.00	0.00
ATOM	158	HA2	GLY	X	11	25.004	60.283	20.044	0.00	0.00
ATOM	159	HA3	GLY	X	11	26.615	60.658	20.049	0.00	0.00
ATOM	160	C	GLY	X	11	26.240	58.594	19.817	0.00	0.00
ATOM	161	O	GLY	X	11	25.851	57.568	20.291	0.00	0.00
ATOM	162	N	ARG	X	12	26.838	58.712	18.613	0.00	0.00
ATOM	163	H	ARG	X	12	27.079	59.601	18.198	0.00	0.00
ATOM	164	CA	ARG	X	12	27.145	57.574	17.769	0.00	0.00
ATOM	165	HA	ARG	X	12	26.514	56.814	18.230	0.00	0.00
ATOM	166	CB	ARG	X	12	26.720	57.965	16.300	0.00	0.00
ATOM	167	HB2	ARG	X	12	25.858	58.627	16.374	0.00	0.00
ATOM	168	HB3	ARG	X	12	27.579	58.427	15.812	0.00	0.00
ATOM	169	CG	ARG	X	12	26.432	56.716	15.472	0.00	0.00
ATOM	170	HG2	ARG	X	12	27.357	56.444	14.963	0.00	0.00
ATOM	171	HG3	ARG	X	12	25.952	55.923	16.045	0.00	0.00
ATOM	172	CD	ARG	X	12	25.445	56.806	14.321	0.00	0.00
ATOM	173	HD2	ARG	X	12	24.515	57.303	14.598	0.00	0.00
ATOM	174	HD3	ARG	X	12	25.875	57.395	13.511	0.00	0.00
ATOM	175	NE	ARG	X	12	24.892	55.501	13.882	0.00	0.00
ATOM	176	HE	ARG	X	12	24.837	54.666	14.447	0.00	0.00
ATOM	177	CZ	ARG	X	12	24.512	55.173	12.662	0.00	0.00
ATOM	178	NH1	ARG	X	12	24.594	56.016	11.683	0.00	0.00
ATOM	179	HH11	ARG	X	12	24.850	56.964	11.920	0.00	0.00
ATOM	180	HH12	ARG	X	12	24.216	55.760	10.783	0.00	0.00
ATOM	181	NH2	ARG	X	12	23.986	54.011	12.480	0.00	0.00
ATOM	182	HH21	ARG	X	12	23.791	53.430	13.283	0.00	0.00
ATOM	183	HH22	ARG	X	12	23.651	53.782	11.556	0.00	0.00
ATOM	184	C	ARG	X	12	28.683	57.146	17.852	0.00	0.00
ATOM	185	O	ARG	X	12	29.554	57.967	18.129	0.00	0.00
ATOM	186	N	LEU	X	13	28.966	55.845	17.704	0.00	0.00
ATOM	187	H	LEU	X	13	28.222	55.226	17.418	0.00	0.00
ATOM	188	CA	LEU	X	13	30.285	55.189	17.825	0.00	0.00
ATOM	189	HA	LEU	X	13	31.138	55.865	17.756	0.00	0.00
ATOM	190	CB	LEU	X	13	30.176	54.403	19.150	0.00	0.00
ATOM	191	HB2	LEU	X	13	29.273	53.791	19.143	0.00	0.00
ATOM	192	HB3	LEU	X	13	30.991	53.688	19.263	0.00	0.00

ATOM	193	CG	LEU	X	13	30.145	55.340	20.372	0.00	0.00
ATOM	194	HG	LEU	X	13	29.337	56.071	20.393	0.00	0.00
ATOM	195	CD1	LEU	X	13	29.865	54.571	21.617	0.00	0.00
ATOM	196	HD11	LEU	X	13	29.753	55.280	22.438	0.00	0.00
ATOM	197	HD12	LEU	X	13	30.672	53.840	21.669	0.00	0.00
ATOM	198	HD13	LEU	X	13	28.977	53.941	21.568	0.00	0.00
ATOM	199	CD2	LEU	X	13	31.309	56.319	20.578	0.00	0.00
ATOM	200	HD21	LEU	X	13	31.630	56.842	19.678	0.00	0.00
ATOM	201	HD22	LEU	X	13	30.994	57.164	21.190	0.00	0.00
ATOM	202	HD23	LEU	X	13	32.167	55.741	20.921	0.00	0.00
ATOM	203	C	LEU	X	13	30.501	54.224	16.707	0.00	0.00
ATOM	204	O	LEU	X	13	29.503	53.756	16.180	0.00	0.00
ATOM	205	N	ARG	X	14	31.817	53.871	16.436	0.00	0.00
ATOM	206	H	ARG	X	14	32.533	54.333	16.980	0.00	0.00
ATOM	207	CA	ARG	X	14	32.168	53.044	15.298	0.00	0.00
ATOM	208	HA	ARG	X	14	31.328	52.448	14.943	0.00	0.00
ATOM	209	CB	ARG	X	14	32.759	53.997	14.187	0.00	0.00
ATOM	210	HB2	ARG	X	14	32.115	54.860	14.016	0.00	0.00
ATOM	211	HB3	ARG	X	14	33.632	54.518	14.580	0.00	0.00
ATOM	212	CG	ARG	X	14	33.168	53.206	12.852	0.00	0.00
ATOM	213	HG2	ARG	X	14	33.972	52.472	12.901	0.00	0.00
ATOM	214	HG3	ARG	X	14	32.310	52.658	12.462	0.00	0.00
ATOM	215	CD	ARG	X	14	33.661	54.100	11.712	0.00	0.00
ATOM	216	HD2	ARG	X	14	34.643	54.419	12.062	0.00	0.00
ATOM	217	HD3	ARG	X	14	33.834	53.563	10.780	0.00	0.00
ATOM	218	NE	ARG	X	14	32.694	55.218	11.357	0.00	0.00
ATOM	219	HE	ARG	X	14	31.873	54.957	10.829	0.00	0.00
ATOM	220	CZ	ARG	X	14	32.755	56.432	11.770	0.00	0.00
ATOM	221	NH1	ARG	X	14	33.703	56.816	12.610	0.00	0.00
ATOM	222	HH11	ARG	X	14	34.333	56.163	13.054	0.00	0.00
ATOM	223	HH12	ARG	X	14	33.796	57.806	12.789	0.00	0.00
ATOM	224	NH2	ARG	X	14	31.895	57.286	11.280	0.00	0.00
ATOM	225	HH21	ARG	X	14	31.238	56.996	10.569	0.00	0.00
ATOM	226	HH22	ARG	X	14	32.031	58.272	11.451	0.00	0.00
ATOM	227	C	ARG	X	14	33.278	52.094	15.593	0.00	0.00
ATOM	228	O	ARG	X	14	34.410	52.528	15.762	0.00	0.00
ATOM	229	N	GLY	X	15	32.978	50.770	15.710	0.00	0.00
ATOM	230	H	GLY	X	15	32.020	50.450	15.692	0.00	0.00
ATOM	231	CA	GLY	X	15	33.933	49.749	16.119	0.00	0.00
ATOM	232	HA2	GLY	X	15	34.806	50.114	16.661	0.00	0.00
ATOM	233	HA3	GLY	X	15	33.476	49.094	16.860	0.00	0.00
ATOM	234	C	GLY	X	15	34.517	48.979	14.910	0.00	0.00
ATOM	235	O	GLY	X	15	34.573	49.536	13.826	0.00	0.00
ATOM	236	N	ILE	X	16	34.964	47.770	15.150	0.00	0.00
ATOM	237	H	ILE	X	16	35.022	47.456	16.109	0.00	0.00
ATOM	238	CA	ILE	X	16	35.664	46.892	14.084	0.00	0.00
ATOM	239	HA	ILE	X	16	35.556	47.302	13.080	0.00	0.00
ATOM	240	CB	ILE	X	16	37.208	47.019	14.145	0.00	0.00
ATOM	241	HB	ILE	X	16	37.650	46.341	13.414	0.00	0.00
ATOM	242	CG2	ILE	X	16	37.700	48.379	13.818	0.00	0.00
ATOM	243	HG21	ILE	X	16	37.311	48.967	14.649	0.00	0.00
ATOM	244	HG22	ILE	X	16	37.209	48.839	12.960	0.00	0.00
ATOM	245	HG23	ILE	X	16	38.760	48.515	13.602	0.00	0.00
ATOM	246	CG1	ILE	X	16	37.664	46.444	15.498	0.00	0.00
ATOM	247	HG12	ILE	X	16	37.404	47.231	16.206	0.00	0.00
ATOM	248	HG13	ILE	X	16	37.261	45.442	15.644	0.00	0.00
ATOM	249	CD1	ILE	X	16	39.185	46.153	15.633	0.00	0.00
ATOM	250	HD11	ILE	X	16	39.746	46.908	15.083	0.00	0.00
ATOM	251	HD12	ILE	X	16	39.432	45.189	15.187	0.00	0.00
ATOM	252	HD13	ILE	X	16	39.445	46.006	16.681	0.00	0.00
ATOM	253	C	ILE	X	16	35.182	45.413	14.112	0.00	0.00
ATOM	254	O	ILE	X	16	34.848	44.884	15.203	0.00	0.00
ATOM	255	N	ARG	X	17	35.348	44.705	12.968	0.00	0.00
ATOM	256	H	ARG	X	17	35.864	45.239	12.283	0.00	0.00
ATOM	257	CA	ARG	X	17	35.271	43.277	12.873	0.00	0.00
ATOM	258	HA	ARG	X	17	34.456	42.874	13.474	0.00	0.00
ATOM	259	CB	ARG	X	17	34.979	42.900	11.441	0.00	0.00

ATOM	260	HB2	ARG	X	17	33.998	43.324	11.227	0.00	0.00
ATOM	261	HB3	ARG	X	17	35.678	43.432	10.795	0.00	0.00
ATOM	262	CG	ARG	X	17	34.828	41.407	11.065	0.00	0.00
ATOM	263	HG2	ARG	X	17	35.734	40.851	11.309	0.00	0.00
ATOM	264	HG3	ARG	X	17	33.973	41.005	11.609	0.00	0.00
ATOM	265	CD	ARG	X	17	34.661	41.255	9.585	0.00	0.00
ATOM	266	HD2	ARG	X	17	33.912	41.940	9.188	0.00	0.00
ATOM	267	HD3	ARG	X	17	35.585	41.531	9.076	0.00	0.00
ATOM	268	NE	ARG	X	17	34.312	39.860	9.145	0.00	0.00
ATOM	269	HE	ARG	X	17	33.357	39.737	8.840	0.00	0.00
ATOM	270	CZ	ARG	X	17	35.058	38.796	8.877	0.00	0.00
ATOM	271	NH1	ARG	X	17	36.298	38.709	9.224	0.00	0.00
ATOM	272	HH11	ARG	X	17	36.853	39.286	9.840	0.00	0.00
ATOM	273	HH12	ARG	X	17	36.686	37.846	8.871	0.00	0.00
ATOM	274	NH2	ARG	X	17	34.594	37.808	8.179	0.00	0.00
ATOM	275	HH21	ARG	X	17	33.606	37.688	8.009	0.00	0.00
ATOM	276	HH22	ARG	X	17	35.176	37.067	7.815	0.00	0.00
ATOM	277	C	ARG	X	17	36.633	42.665	13.404	0.00	0.00
ATOM	278	O	ARG	X	17	37.655	43.364	13.397	0.00	0.00
ATOM	279	N	LEU	X	18	36.506	41.444	13.980	0.00	0.00
ATOM	280	H	LEU	X	18	35.585	41.037	14.057	0.00	0.00
ATOM	281	CA	LEU	X	18	37.565	40.627	14.507	0.00	0.00
ATOM	282	HA	LEU	X	18	38.517	40.748	13.990	0.00	0.00
ATOM	283	CB	LEU	X	18	37.758	41.081	15.955	0.00	0.00
ATOM	284	HB2	LEU	X	18	37.136	41.951	16.165	0.00	0.00
ATOM	285	HB3	LEU	X	18	37.412	40.329	16.665	0.00	0.00
ATOM	286	CG	LEU	X	18	39.308	41.360	16.245	0.00	0.00
ATOM	287	HG	LEU	X	18	39.587	42.108	15.502	0.00	0.00
ATOM	288	CD1	LEU	X	18	39.584	42.057	17.577	0.00	0.00
ATOM	289	HD11	LEU	X	18	39.302	41.480	18.457	0.00	0.00
ATOM	290	HD12	LEU	X	18	39.182	43.067	17.497	0.00	0.00
ATOM	291	HD13	LEU	X	18	40.666	42.184	17.616	0.00	0.00
ATOM	292	CD2	LEU	X	18	40.262	40.150	16.071	0.00	0.00
ATOM	293	HD21	LEU	X	18	40.060	39.401	16.836	0.00	0.00
ATOM	294	HD22	LEU	X	18	40.030	39.648	15.131	0.00	0.00
ATOM	295	HD23	LEU	X	18	41.321	40.403	16.106	0.00	0.00
ATOM	296	C	LEU	X	18	37.122	39.169	14.416	0.00	0.00
ATOM	297	O	LEU	X	18	35.992	38.910	14.254	0.00	0.00
ATOM	298	N	LYS	X	19	38.022	38.204	14.750	0.00	0.00
ATOM	299	H	LYS	X	19	38.973	38.463	14.970	0.00	0.00
ATOM	300	CA	LYS	X	19	37.741	36.795	14.688	0.00	0.00
ATOM	301	HA	LYS	X	19	36.745	36.717	15.123	0.00	0.00
ATOM	302	CB	LYS	X	19	37.698	36.383	13.175	0.00	0.00
ATOM	303	HB2	LYS	X	19	37.086	35.481	13.157	0.00	0.00
ATOM	304	HB3	LYS	X	19	37.025	36.963	12.544	0.00	0.00
ATOM	305	CG	LYS	X	19	39.027	36.142	12.453	0.00	0.00
ATOM	306	HG2	LYS	X	19	39.625	37.051	12.520	0.00	0.00
ATOM	307	HG3	LYS	X	19	39.486	35.255	12.891	0.00	0.00
ATOM	308	CD	LYS	X	19	38.812	35.809	10.991	0.00	0.00
ATOM	309	HD2	LYS	X	19	37.849	35.310	10.889	0.00	0.00
ATOM	310	HD3	LYS	X	19	38.694	36.707	10.384	0.00	0.00
ATOM	311	CE	LYS	X	19	39.899	34.948	10.392	0.00	0.00
ATOM	312	HE2	LYS	X	19	40.839	35.498	10.439	0.00	0.00
ATOM	313	HE3	LYS	X	19	40.158	34.202	11.144	0.00	0.00
ATOM	314	NZ	LYS	X	19	39.531	34.309	9.068	0.00	0.00
ATOM	315	HZ1	LYS	X	19	38.677	33.794	9.226	0.00	0.00
ATOM	316	HZ2	LYS	X	19	39.465	35.054	8.390	0.00	0.00
ATOM	317	HZ3	LYS	X	19	40.175	33.679	8.611	0.00	0.00
ATOM	318	C	LYS	X	19	38.688	36.029	15.552	0.00	0.00
ATOM	319	O	LYS	X	19	39.719	36.531	15.939	0.00	0.00
ATOM	320	N	THR	X	20	38.335	34.767	15.768	0.00	0.00
ATOM	321	H	THR	X	20	37.381	34.453	15.665	0.00	0.00
ATOM	322	CA	THR	X	20	39.366	33.734	16.293	0.00	0.00
ATOM	323	HA	THR	X	20	40.300	34.295	16.268	0.00	0.00
ATOM	324	CB	THR	X	20	39.038	33.431	17.736	0.00	0.00
ATOM	325	HB	THR	X	20	39.855	32.903	18.228	0.00	0.00
ATOM	326	CG2	THR	X	20	38.791	34.709	18.541	0.00	0.00

ATOM	327	HG21	THR	X	20	39.523	35.472	18.274	0.00	0.00
ATOM	328	HG22	THR	X	20	38.917	34.553	19.612	0.00	0.00
ATOM	329	HG23	THR	X	20	37.825	35.213	18.499	0.00	0.00
ATOM	330	OG1	THR	X	20	37.906	32.644	17.864	0.00	0.00
ATOM	331	HG1	THR	X	20	38.231	31.842	18.281	0.00	0.00
ATOM	332	C	THR	X	20	39.349	32.571	15.279	0.00	0.00
ATOM	333	O	THR	X	20	38.653	32.684	14.279	0.00	0.00
ATOM	334	N	PRO	X	21	40.174	31.489	15.351	0.00	0.00
ATOM	335	CD	PRO	X	21	41.385	31.362	16.174	0.00	0.00
ATOM	336	HD2	PRO	X	21	41.128	31.111	17.203	0.00	0.00
ATOM	337	HD3	PRO	X	21	41.973	32.278	16.117	0.00	0.00
ATOM	338	CG	PRO	X	21	42.112	30.246	15.591	0.00	0.00
ATOM	339	HG2	PRO	X	21	42.670	29.787	16.407	0.00	0.00
ATOM	340	HG3	PRO	X	21	42.796	30.541	14.796	0.00	0.00
ATOM	341	CB	PRO	X	21	40.987	29.308	15.059	0.00	0.00
ATOM	342	HB2	PRO	X	21	40.490	28.748	15.851	0.00	0.00
ATOM	343	HB3	PRO	X	21	41.473	28.682	14.310	0.00	0.00
ATOM	344	CA	PRO	X	21	40.024	30.346	14.448	0.00	0.00
ATOM	345	HA	PRO	X	21	40.324	30.562	13.423	0.00	0.00
ATOM	346	C	PRO	X	21	38.594	29.826	14.362	0.00	0.00
ATOM	347	O	PRO	X	21	38.166	29.512	13.271	0.00	0.00
ATOM	348	N	GLY	X	22	37.751	29.867	15.401	0.00	0.00
ATOM	349	H	GLY	X	22	38.199	30.163	16.256	0.00	0.00
ATOM	350	CA	GLY	X	22	36.384	29.393	15.387	0.00	0.00
ATOM	351	HA2	GLY	X	22	36.305	28.479	14.798	0.00	0.00
ATOM	352	HA3	GLY	X	22	35.985	29.249	16.391	0.00	0.00
ATOM	353	C	GLY	X	22	35.317	30.261	14.747	0.00	0.00
ATOM	354	O	GLY	X	22	34.129	29.774	14.612	0.00	0.00
ATOM	355	N	GLY	X	23	35.582	31.549	14.510	0.00	0.00
ATOM	356	H	GLY	X	23	36.543	31.847	14.592	0.00	0.00
ATOM	357	CA	GLY	X	23	34.605	32.454	13.892	0.00	0.00
ATOM	358	HA2	GLY	X	23	34.627	32.252	12.822	0.00	0.00
ATOM	359	HA3	GLY	X	23	33.632	32.064	14.189	0.00	0.00
ATOM	360	C	GLY	X	23	34.661	33.947	14.228	0.00	0.00
ATOM	361	O	GLY	X	23	35.532	34.352	14.964	0.00	0.00
ATOM	362	N	PRO	X	24	33.828	34.769	13.531	0.00	0.00
ATOM	363	CD	PRO	X	24	32.885	34.480	12.492	0.00	0.00
ATOM	364	HD2	PRO	X	24	32.059	33.867	12.854	0.00	0.00
ATOM	365	HD3	PRO	X	24	33.352	33.991	11.637	0.00	0.00
ATOM	366	CG	PRO	X	24	32.295	35.784	11.882	0.00	0.00
ATOM	367	HG2	PRO	X	24	31.379	35.995	12.433	0.00	0.00
ATOM	368	HG3	PRO	X	24	32.113	35.655	10.815	0.00	0.00
ATOM	369	CB	PRO	X	24	33.464	36.680	12.215	0.00	0.00
ATOM	370	HB2	PRO	X	24	33.126	37.709	12.334	0.00	0.00
ATOM	371	HB3	PRO	X	24	34.347	36.670	11.576	0.00	0.00
ATOM	372	CA	PRO	X	24	33.960	36.255	13.542	0.00	0.00
ATOM	373	HA	PRO	X	24	34.999	36.576	13.628	0.00	0.00
ATOM	374	C	PRO	X	24	33.047	36.882	14.593	0.00	0.00
ATOM	375	O	PRO	X	24	31.982	36.356	14.967	0.00	0.00
ATOM	376	N	VAL	X	25	33.532	38.033	15.080	0.00	0.00
ATOM	377	H	VAL	X	25	34.341	38.389	14.592	0.00	0.00
ATOM	378	CA	VAL	X	25	32.942	38.913	16.111	0.00	0.00
ATOM	379	HA	VAL	X	25	31.862	38.773	16.163	0.00	0.00
ATOM	380	CB	VAL	X	25	33.388	38.503	17.575	0.00	0.00
ATOM	381	HB	VAL	X	25	32.800	39.102	18.271	0.00	0.00
ATOM	382	CG1	VAL	X	25	33.246	37.016	18.003	0.00	0.00
ATOM	383	HG11	VAL	X	25	33.508	36.816	19.042	0.00	0.00
ATOM	384	HG12	VAL	X	25	32.249	36.790	17.624	0.00	0.00
ATOM	385	HG13	VAL	X	25	33.834	36.405	17.318	0.00	0.00
ATOM	386	CG2	VAL	X	25	34.866	38.839	17.745	0.00	0.00
ATOM	387	HG21	VAL	X	25	35.466	38.240	17.060	0.00	0.00
ATOM	388	HG22	VAL	X	25	35.077	38.594	18.786	0.00	0.00
ATOM	389	HG23	VAL	X	25	35.123	39.888	17.598	0.00	0.00
ATOM	390	C	VAL	X	25	33.252	40.400	15.804	0.00	0.00
ATOM	391	O	VAL	X	25	33.824	40.749	14.812	0.00	0.00
ATOM	392	N	SER	X	26	32.974	41.220	16.816	0.00	0.00
ATOM	393	H	SER	X	26	32.601	40.861	17.683	0.00	0.00

ATOM	394	CA	SER	X	26	33.312	42.600	16.882	0.00	0.00
ATOM	395	HA	SER	X	26	34.141	42.778	16.197	0.00	0.00
ATOM	396	CB	SER	X	26	32.125	43.478	16.367	0.00	0.00
ATOM	397	HB2	SER	X	26	32.404	44.479	16.039	0.00	0.00
ATOM	398	HB3	SER	X	26	31.826	43.013	15.428	0.00	0.00
ATOM	399	OG	SER	X	26	31.008	43.472	17.199	0.00	0.00
ATOM	400	HG	SER	X	26	31.157	42.707	17.759	0.00	0.00
ATOM	401	C	SER	X	26	33.908	43.089	18.207	0.00	0.00
ATOM	402	O	SER	X	26	33.575	42.669	19.316	0.00	0.00
ATOM	403	N	ALA	X	27	34.830	44.121	18.039	0.00	0.00
ATOM	404	H	ALA	X	27	35.069	44.315	17.077	0.00	0.00
ATOM	405	CA	ALA	X	27	35.272	45.047	19.140	0.00	0.00
ATOM	406	HA	ALA	X	27	34.809	44.806	20.097	0.00	0.00
ATOM	407	CB	ALA	X	27	36.823	44.931	19.309	0.00	0.00
ATOM	408	HB1	ALA	X	27	37.086	43.984	19.780	0.00	0.00
ATOM	409	HB2	ALA	X	27	37.250	45.712	19.938	0.00	0.00
ATOM	410	HB3	ALA	X	27	37.188	44.991	18.284	0.00	0.00
ATOM	411	C	ALA	X	27	34.921	46.564	18.945	0.00	0.00
ATOM	412	O	ALA	X	27	34.868	46.978	17.792	0.00	0.00
ATOM	413	N	PHE	X	28	34.790	47.241	20.042	0.00	0.00
ATOM	414	H	PHE	X	28	34.860	46.731	20.910	0.00	0.00
ATOM	415	CA	PHE	X	28	34.475	48.610	20.235	0.00	0.00
ATOM	416	HA	PHE	X	28	34.807	49.066	19.303	0.00	0.00
ATOM	417	CB	PHE	X	28	32.989	48.814	20.631	0.00	0.00
ATOM	418	HB2	PHE	X	28	32.847	48.221	21.535	0.00	0.00
ATOM	419	HB3	PHE	X	28	32.787	49.872	20.798	0.00	0.00
ATOM	420	CG	PHE	X	28	32.000	48.442	19.592	0.00	0.00
ATOM	421	CD1	PHE	X	28	31.488	47.133	19.555	0.00	0.00
ATOM	422	HD1	PHE	X	28	31.809	46.442	20.320	0.00	0.00
ATOM	423	CE1	PHE	X	28	30.698	46.802	18.440	0.00	0.00
ATOM	424	HE1	PHE	X	28	30.389	45.779	18.288	0.00	0.00
ATOM	425	CZ	PHE	X	28	30.382	47.646	17.434	0.00	0.00
ATOM	426	HZ	PHE	X	28	29.867	47.279	16.559	0.00	0.00
ATOM	427	CE2	PHE	X	28	30.816	48.967	17.576	0.00	0.00
ATOM	428	HE2	PHE	X	28	30.525	49.783	16.931	0.00	0.00
ATOM	429	CD2	PHE	X	28	31.734	49.347	18.583	0.00	0.00
ATOM	430	HD2	PHE	X	28	32.101	50.362	18.601	0.00	0.00
ATOM	431	C	PHE	X	28	35.453	49.137	21.405	0.00	0.00
ATOM	432	O	PHE	X	28	35.115	48.783	22.537	0.00	0.00
ATOM	433	N	LEU	X	29	36.544	49.883	21.120	0.00	0.00
ATOM	434	H	LEU	X	29	36.760	50.186	20.182	0.00	0.00
ATOM	435	CA	LEU	X	29	37.721	50.188	21.960	0.00	0.00
ATOM	436	HA	LEU	X	29	37.499	49.836	22.967	0.00	0.00
ATOM	437	CB	LEU	X	29	38.964	49.367	21.420	0.00	0.00
ATOM	438	HB2	LEU	X	29	39.122	49.678	20.388	0.00	0.00
ATOM	439	HB3	LEU	X	29	39.868	49.610	21.979	0.00	0.00
ATOM	440	CG	LEU	X	29	38.824	47.807	21.247	0.00	0.00
ATOM	441	HG	LEU	X	29	38.149	47.718	20.396	0.00	0.00
ATOM	442	CD1	LEU	X	29	40.211	47.242	20.811	0.00	0.00
ATOM	443	HD11	LEU	X	29	40.392	47.690	19.834	0.00	0.00
ATOM	444	HD12	LEU	X	29	40.208	46.153	20.776	0.00	0.00
ATOM	445	HD13	LEU	X	29	40.869	47.642	21.583	0.00	0.00
ATOM	446	CD2	LEU	X	29	38.370	47.046	22.525	0.00	0.00
ATOM	447	HD21	LEU	X	29	38.283	45.980	22.314	0.00	0.00
ATOM	448	HD22	LEU	X	29	39.152	47.231	23.261	0.00	0.00
ATOM	449	HD23	LEU	X	29	37.449	47.374	23.006	0.00	0.00
ATOM	450	C	LEU	X	29	37.964	51.668	21.986	0.00	0.00
ATOM	451	O	LEU	X	29	37.598	52.379	21.118	0.00	0.00
ATOM	452	N	GLY	X	30	38.457	52.160	23.088	0.00	0.00
ATOM	453	H	GLY	X	30	38.795	51.517	23.790	0.00	0.00
ATOM	454	CA	GLY	X	30	38.675	53.567	23.364	0.00	0.00
ATOM	455	HA2	GLY	X	30	39.154	53.669	24.338	0.00	0.00
ATOM	456	HA3	GLY	X	30	39.339	53.999	22.617	0.00	0.00
ATOM	457	C	GLY	X	30	37.426	54.551	23.356	0.00	0.00
ATOM	458	O	GLY	X	30	37.593	55.699	22.961	0.00	0.00
ATOM	459	N	ILE	X	31	36.287	54.102	23.876	0.00	0.00
ATOM	460	H	ILE	X	31	36.312	53.225	24.376	0.00	0.00

ATOM	461	CA	ILE	X	31	35.036	54.829	24.042	0.00	0.00
ATOM	462	HA	ILE	X	31	34.993	55.435	23.137	0.00	0.00
ATOM	463	CB	ILE	X	31	33.757	53.919	24.210	0.00	0.00
ATOM	464	HB	ILE	X	31	33.791	53.534	25.230	0.00	0.00
ATOM	465	CG2	ILE	X	31	32.535	54.811	24.244	0.00	0.00
ATOM	466	HG21	ILE	X	31	31.619	54.286	24.516	0.00	0.00
ATOM	467	HG22	ILE	X	31	32.537	55.382	23.316	0.00	0.00
ATOM	468	HG23	ILE	X	31	32.643	55.547	25.040	0.00	0.00
ATOM	469	CG1	ILE	X	31	33.431	52.763	23.244	0.00	0.00
ATOM	470	HG12	ILE	X	31	32.922	53.242	22.408	0.00	0.00
ATOM	471	HG13	ILE	X	31	34.337	52.296	22.857	0.00	0.00
ATOM	472	CD1	ILE	X	31	32.487	51.662	23.692	0.00	0.00
ATOM	473	HD11	ILE	X	31	32.491	50.920	22.893	0.00	0.00
ATOM	474	HD12	ILE	X	31	31.495	52.045	23.932	0.00	0.00
ATOM	475	HD13	ILE	X	31	32.864	51.176	24.591	0.00	0.00
ATOM	476	C	ILE	X	31	35.063	55.754	25.269	0.00	0.00
ATOM	477	O	ILE	X	31	35.032	55.214	26.346	0.00	0.00
ATOM	478	N	PRO	X	32	35.133	57.084	25.150	0.00	0.00
ATOM	479	CD	PRO	X	32	35.207	57.851	23.903	0.00	0.00
ATOM	480	HD2	PRO	X	32	34.318	57.624	23.315	0.00	0.00
ATOM	481	HD3	PRO	X	32	36.084	57.548	23.332	0.00	0.00
ATOM	482	CG	PRO	X	32	35.100	59.337	24.225	0.00	0.00
ATOM	483	HG2	PRO	X	32	34.066	59.677	24.172	0.00	0.00
ATOM	484	HG3	PRO	X	32	35.635	60.036	23.582	0.00	0.00
ATOM	485	CB	PRO	X	32	35.497	59.412	25.719	0.00	0.00
ATOM	486	HB2	PRO	X	32	35.111	60.306	26.209	0.00	0.00
ATOM	487	HB3	PRO	X	32	36.580	59.508	25.653	0.00	0.00
ATOM	488	CA	PRO	X	32	35.148	57.942	26.312	0.00	0.00
ATOM	489	HA	PRO	X	32	35.918	57.508	26.950	0.00	0.00
ATOM	490	C	PRO	X	32	33.773	57.992	27.060	0.00	0.00
ATOM	491	O	PRO	X	32	32.711	58.155	26.493	0.00	0.00
ATOM	492	N	PHE	X	33	33.757	57.681	28.406	0.00	0.00
ATOM	493	H	PHE	X	33	34.593	57.388	28.890	0.00	0.00
ATOM	494	CA	PHE	X	33	32.571	57.564	29.178	0.00	0.00
ATOM	495	HA	PHE	X	33	31.666	57.733	28.595	0.00	0.00
ATOM	496	CB	PHE	X	33	32.566	56.182	29.684	0.00	0.00
ATOM	497	HB2	PHE	X	33	31.553	56.033	30.057	0.00	0.00
ATOM	498	HB3	PHE	X	33	32.711	55.525	28.827	0.00	0.00
ATOM	499	CG	PHE	X	33	33.490	55.957	30.924	0.00	0.00
ATOM	500	CD1	PHE	X	33	32.954	56.177	32.234	0.00	0.00
ATOM	501	HD1	PHE	X	33	31.945	56.504	32.437	0.00	0.00
ATOM	502	CE1	PHE	X	33	33.819	55.988	33.374	0.00	0.00
ATOM	503	HE1	PHE	X	33	33.479	56.268	34.360	0.00	0.00
ATOM	504	CZ	PHE	X	33	35.116	55.745	33.113	0.00	0.00
ATOM	505	HZ	PHE	X	33	35.778	55.727	33.966	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.590	55.367	31.843	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.613	55.021	31.817	0.00	0.00
ATOM	508	CD2	PHE	X	33	34.848	55.609	30.695	0.00	0.00
ATOM	509	HD2	PHE	X	33	35.286	55.491	29.715	0.00	0.00
ATOM	510	C	PHE	X	33	32.467	58.625	30.284	0.00	0.00
ATOM	511	O	PHE	X	33	31.345	58.867	30.796	0.00	0.00
ATOM	512	N	ALA	X	34	33.579	59.307	30.577	0.00	0.00
ATOM	513	H	ALA	X	34	34.402	59.053	30.049	0.00	0.00
ATOM	514	CA	ALA	X	34	33.771	60.415	31.486	0.00	0.00
ATOM	515	HA	ALA	X	34	32.804	60.725	31.883	0.00	0.00
ATOM	516	CB	ALA	X	34	34.586	59.801	32.641	0.00	0.00
ATOM	517	HB1	ALA	X	34	35.046	60.490	33.350	0.00	0.00
ATOM	518	HB2	ALA	X	34	35.356	59.129	32.260	0.00	0.00
ATOM	519	HB3	ALA	X	34	33.874	59.209	33.215	0.00	0.00
ATOM	520	C	ALA	X	34	34.490	61.637	30.900	0.00	0.00
ATOM	521	O	ALA	X	34	35.119	61.482	29.834	0.00	0.00
ATOM	522	N	GLU	X	35	34.474	62.786	31.654	0.00	0.00
ATOM	523	H	GLU	X	35	33.962	62.735	32.522	0.00	0.00
ATOM	524	CA	GLU	X	35	35.303	63.958	31.367	0.00	0.00
ATOM	525	HA	GLU	X	35	35.271	64.057	30.282	0.00	0.00
ATOM	526	CB	GLU	X	35	34.769	65.180	32.097	0.00	0.00
ATOM	527	HB2	GLU	X	35	34.774	64.912	33.153	0.00	0.00

ATOM	528	HB3	GLU	X	35	35.276	66.143	32.028	0.00	0.00
ATOM	529	CG	GLU	X	35	33.386	65.515	31.541	0.00	0.00
ATOM	530	HG2	GLU	X	35	32.648	64.718	31.631	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.932	66.257	32.198	0.00	0.00
ATOM	532	CD	GLU	X	35	33.417	66.143	30.193	0.00	0.00
ATOM	533	OE1	GLU	X	35	33.325	65.378	29.227	0.00	0.00
ATOM	534	OE2	GLU	X	35	33.718	67.388	30.021	0.00	0.00
ATOM	535	C	GLU	X	35	36.773	63.752	31.780	0.00	0.00
ATOM	536	O	GLU	X	35	37.089	62.966	32.720	0.00	0.00
ATOM	537	N	PRO	X	36	37.751	64.483	31.217	0.00	0.00
ATOM	538	CD	PRO	X	36	37.600	65.503	30.232	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.864	66.243	30.548	0.00	0.00
ATOM	540	HD3	PRO	X	36	37.203	65.048	29.324	0.00	0.00
ATOM	541	CG	PRO	X	36	38.981	66.126	29.978	0.00	0.00
ATOM	542	HG2	PRO	X	36	39.081	67.029	30.581	0.00	0.00
ATOM	543	HG3	PRO	X	36	39.190	66.311	28.925	0.00	0.00
ATOM	544	CB	PRO	X	36	39.931	64.966	30.371	0.00	0.00
ATOM	545	HB2	PRO	X	36	40.839	65.424	30.763	0.00	0.00
ATOM	546	HB3	PRO	X	36	40.104	64.272	29.548	0.00	0.00
ATOM	547	CA	PRO	X	36	39.158	64.206	31.399	0.00	0.00
ATOM	548	HA	PRO	X	36	39.287	63.136	31.239	0.00	0.00
ATOM	549	C	PRO	X	36	39.655	64.625	32.777	0.00	0.00
ATOM	550	O	PRO	X	36	39.457	65.769	33.144	0.00	0.00
ATOM	551	N	PRO	X	37	40.204	63.730	33.592	0.00	0.00
ATOM	552	CD	PRO	X	37	40.118	62.340	33.371	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.609	62.120	32.423	0.00	0.00
ATOM	554	HD3	PRO	X	37	39.077	62.022	33.333	0.00	0.00
ATOM	555	CG	PRO	X	37	40.816	61.689	34.469	0.00	0.00
ATOM	556	HG2	PRO	X	37	41.885	61.792	34.283	0.00	0.00
ATOM	557	HG3	PRO	X	37	40.568	60.644	34.659	0.00	0.00
ATOM	558	CB	PRO	X	37	40.605	62.600	35.655	0.00	0.00
ATOM	559	HB2	PRO	X	37	41.401	62.561	36.399	0.00	0.00
ATOM	560	HB3	PRO	X	37	39.736	62.224	36.195	0.00	0.00
ATOM	561	CA	PRO	X	37	40.516	63.994	35.039	0.00	0.00
ATOM	562	HA	PRO	X	37	39.788	64.639	35.532	0.00	0.00
ATOM	563	C	PRO	X	37	41.829	64.760	35.255	0.00	0.00
ATOM	564	O	PRO	X	37	42.350	64.909	36.388	0.00	0.00
ATOM	565	N	MET	X	38	42.335	65.359	34.215	0.00	0.00
ATOM	566	H	MET	X	38	41.920	65.085	33.337	0.00	0.00
ATOM	567	CA	MET	X	38	43.435	66.386	34.250	0.00	0.00
ATOM	568	HA	MET	X	38	44.280	65.940	34.775	0.00	0.00
ATOM	569	CB	MET	X	38	43.897	66.726	32.818	0.00	0.00
ATOM	570	HB2	MET	X	38	44.751	67.395	32.715	0.00	0.00
ATOM	571	HB3	MET	X	38	44.274	65.750	32.512	0.00	0.00
ATOM	572	CG	MET	X	38	42.907	67.442	31.870	0.00	0.00
ATOM	573	HG2	MET	X	38	41.917	67.092	32.162	0.00	0.00
ATOM	574	HG3	MET	X	38	42.917	68.494	32.153	0.00	0.00
ATOM	575	SD	MET	X	38	43.319	67.054	30.074	0.00	0.00
ATOM	576	CE	MET	X	38	42.196	68.130	29.106	0.00	0.00
ATOM	577	HE1	MET	X	38	42.687	69.003	28.676	0.00	0.00
ATOM	578	HE2	MET	X	38	41.732	67.631	28.255	0.00	0.00
ATOM	579	HE3	MET	X	38	41.286	68.383	29.649	0.00	0.00
ATOM	580	C	MET	X	38	43.184	67.642	34.995	0.00	0.00
ATOM	581	O	MET	X	38	42.046	68.109	35.181	0.00	0.00
ATOM	582	N	GLY	X	39	44.233	68.205	35.620	0.00	0.00
ATOM	583	H	GLY	X	39	45.138	67.759	35.569	0.00	0.00
ATOM	584	CA	GLY	X	39	44.233	69.498	36.311	0.00	0.00
ATOM	585	HA2	GLY	X	39	45.214	69.938	36.491	0.00	0.00
ATOM	586	HA3	GLY	X	39	43.839	70.152	35.532	0.00	0.00
ATOM	587	C	GLY	X	39	43.463	69.510	37.615	0.00	0.00
ATOM	588	O	GLY	X	39	43.789	68.675	38.443	0.00	0.00
ATOM	589	N	PRO	X	40	42.408	70.354	37.822	0.00	0.00
ATOM	590	CD	PRO	X	40	41.824	71.317	36.783	0.00	0.00
ATOM	591	HD2	PRO	X	40	41.281	70.793	35.996	0.00	0.00
ATOM	592	HD3	PRO	X	40	42.618	71.917	36.339	0.00	0.00
ATOM	593	CG	PRO	X	40	40.863	72.228	37.615	0.00	0.00
ATOM	594	HG2	PRO	X	40	40.045	72.543	36.968	0.00	0.00

ATOM	595	HG3	PRO	X	40	41.511	73.030	37.969	0.00	0.00
ATOM	596	CB	PRO	X	40	40.493	71.426	38.859	0.00	0.00
ATOM	597	HB2	PRO	X	40	39.593	70.867	38.604	0.00	0.00
ATOM	598	HB3	PRO	X	40	40.261	72.031	39.736	0.00	0.00
ATOM	599	CA	PRO	X	40	41.662	70.359	39.055	0.00	0.00
ATOM	600	HA	PRO	X	40	42.246	70.808	39.858	0.00	0.00
ATOM	601	C	PRO	X	40	41.112	69.064	39.495	0.00	0.00
ATOM	602	O	PRO	X	40	41.178	68.707	40.704	0.00	0.00
ATOM	603	N	ARG	X	41	40.704	68.244	38.516	0.00	0.00
ATOM	604	H	ARG	X	41	40.613	68.625	37.585	0.00	0.00
ATOM	605	CA	ARG	X	41	40.027	67.020	38.773	0.00	0.00
ATOM	606	HA	ARG	X	41	39.328	67.027	39.610	0.00	0.00
ATOM	607	CB	ARG	X	41	39.353	66.453	37.485	0.00	0.00
ATOM	608	HB2	ARG	X	41	40.094	66.631	36.706	0.00	0.00
ATOM	609	HB3	ARG	X	41	39.091	65.399	37.582	0.00	0.00
ATOM	610	CG	ARG	X	41	38.037	67.337	37.229	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.325	67.122	38.025	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.291	68.395	37.152	0.00	0.00
ATOM	613	CD	ARG	X	41	37.511	66.683	35.949	0.00	0.00
ATOM	614	HD2	ARG	X	41	38.293	66.831	35.204	0.00	0.00
ATOM	615	HD3	ARG	X	41	37.329	65.633	36.179	0.00	0.00
ATOM	616	NE	ARG	X	41	36.251	67.243	35.461	0.00	0.00
ATOM	617	HE	ARG	X	41	35.454	67.086	36.060	0.00	0.00
ATOM	618	CZ	ARG	X	41	36.022	68.091	34.398	0.00	0.00
ATOM	619	NH1	ARG	X	41	36.956	68.558	33.673	0.00	0.00
ATOM	620	HH11	ARG	X	41	37.905	68.266	33.859	0.00	0.00
ATOM	621	HH12	ARG	X	41	36.767	69.207	32.923	0.00	0.00
ATOM	622	NH2	ARG	X	41	34.841	68.450	34.083	0.00	0.00
ATOM	623	HH21	ARG	X	41	34.047	68.044	34.559	0.00	0.00
ATOM	624	HH22	ARG	X	41	34.684	69.178	33.401	0.00	0.00
ATOM	625	C	ARG	X	41	41.135	65.931	39.190	0.00	0.00
ATOM	626	O	ARG	X	41	40.737	64.715	39.431	0.00	0.00
ATOM	627	N	ARG	X	42	42.439	66.257	39.253	0.00	0.00
ATOM	628	H	ARG	X	42	42.711	67.221	39.122	0.00	0.00
ATOM	629	CA	ARG	X	42	43.515	65.275	39.566	0.00	0.00
ATOM	630	HA	ARG	X	42	43.436	64.435	38.877	0.00	0.00
ATOM	631	CB	ARG	X	42	44.903	65.942	39.391	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.978	66.350	38.383	0.00	0.00
ATOM	633	HB3	ARG	X	42	44.969	66.713	40.159	0.00	0.00
ATOM	634	CG	ARG	X	42	45.997	64.850	39.648	0.00	0.00
ATOM	635	HG2	ARG	X	42	45.879	64.580	40.698	0.00	0.00
ATOM	636	HG3	ARG	X	42	45.810	64.010	38.979	0.00	0.00
ATOM	637	CD	ARG	X	42	47.478	65.249	39.379	0.00	0.00
ATOM	638	HD2	ARG	X	42	47.851	65.947	40.127	0.00	0.00
ATOM	639	HD3	ARG	X	42	48.120	64.385	39.548	0.00	0.00
ATOM	640	NE	ARG	X	42	47.607	65.762	38.075	0.00	0.00
ATOM	641	HE	ARG	X	42	46.885	65.551	37.401	0.00	0.00
ATOM	642	CZ	ARG	X	42	48.474	66.702	37.677	0.00	0.00
ATOM	643	NH1	ARG	X	42	49.374	67.169	38.480	0.00	0.00
ATOM	644	HH11	ARG	X	42	49.549	66.755	39.384	0.00	0.00
ATOM	645	HH12	ARG	X	42	50.029	67.921	38.324	0.00	0.00
ATOM	646	NH2	ARG	X	42	48.332	67.164	36.471	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.903	66.571	35.775	0.00	0.00
ATOM	648	HH22	ARG	X	42	49.028	67.836	36.182	0.00	0.00
ATOM	649	C	ARG	X	42	43.250	64.860	41.046	0.00	0.00
ATOM	650	O	ARG	X	42	43.224	65.785	41.932	0.00	0.00
ATOM	651	N	PHE	X	43	43.085	63.591	41.401	0.00	0.00
ATOM	652	H	PHE	X	43	43.360	62.898	40.720	0.00	0.00
ATOM	653	CA	PHE	X	43	42.767	62.951	42.750	0.00	0.00
ATOM	654	HA	PHE	X	43	42.974	61.881	42.729	0.00	0.00
ATOM	655	CB	PHE	X	43	43.714	63.557	43.895	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.238	64.530	44.021	0.00	0.00
ATOM	657	HB3	PHE	X	43	43.652	62.893	44.757	0.00	0.00
ATOM	658	CG	PHE	X	43	45.178	63.796	43.517	0.00	0.00
ATOM	659	CD1	PHE	X	43	45.921	62.751	42.955	0.00	0.00
ATOM	660	HD1	PHE	X	43	45.406	61.803	42.900	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.277	62.877	42.584	0.00	0.00

ATOM	662	HE1	PHE	X	43	47.858	62.089	42.129	0.00	0.00
ATOM	663	CZ	PHE	X	43	47.912	64.155	42.733	0.00	0.00
ATOM	664	HZ	PHE	X	43	48.935	64.427	42.517	0.00	0.00
ATOM	665	CE2	PHE	X	43	47.146	65.238	43.294	0.00	0.00
ATOM	666	HE2	PHE	X	43	47.586	66.224	43.327	0.00	0.00
ATOM	667	CD2	PHE	X	43	45.778	65.114	43.633	0.00	0.00
ATOM	668	HD2	PHE	X	43	45.184	65.985	43.867	0.00	0.00
ATOM	669	C	PHE	X	43	41.303	63.143	43.197	0.00	0.00
ATOM	670	O	PHE	X	43	41.095	62.815	44.375	0.00	0.00
ATOM	671	N	LEU	X	44	40.441	63.794	42.384	0.00	0.00
ATOM	672	H	LEU	X	44	40.778	63.896	41.437	0.00	0.00
ATOM	673	CA	LEU	X	44	39.088	64.212	42.755	0.00	0.00
ATOM	674	HA	LEU	X	44	39.000	64.027	43.826	0.00	0.00
ATOM	675	CB	LEU	X	44	38.911	65.706	42.502	0.00	0.00
ATOM	676	HB2	LEU	X	44	39.191	65.821	41.455	0.00	0.00
ATOM	677	HB3	LEU	X	44	37.869	66.009	42.605	0.00	0.00
ATOM	678	CG	LEU	X	44	39.697	66.737	43.316	0.00	0.00
ATOM	679	HG	LEU	X	44	40.755	66.779	43.060	0.00	0.00
ATOM	680	CD1	LEU	X	44	39.005	68.075	43.127	0.00	0.00
ATOM	681	HD11	LEU	X	44	38.764	68.189	42.070	0.00	0.00
ATOM	682	HD12	LEU	X	44	39.662	68.884	43.446	0.00	0.00
ATOM	683	HD13	LEU	X	44	38.092	68.164	43.715	0.00	0.00
ATOM	684	CD2	LEU	X	44	39.600	66.491	44.874	0.00	0.00
ATOM	685	HD21	LEU	X	44	40.055	67.346	45.374	0.00	0.00
ATOM	686	HD22	LEU	X	44	38.607	66.248	45.253	0.00	0.00
ATOM	687	HD23	LEU	X	44	40.098	65.575	45.191	0.00	0.00
ATOM	688	C	LEU	X	44	38.019	63.402	41.986	0.00	0.00
ATOM	689	O	LEU	X	44	38.294	62.932	40.878	0.00	0.00
ATOM	690	N	PRO	X	45	36.764	63.270	42.483	0.00	0.00
ATOM	691	CD	PRO	X	45	36.358	63.685	43.825	0.00	0.00
ATOM	692	HD2	PRO	X	45	36.078	64.738	43.780	0.00	0.00
ATOM	693	HD3	PRO	X	45	37.184	63.555	44.523	0.00	0.00
ATOM	694	CG	PRO	X	45	35.051	62.896	44.027	0.00	0.00
ATOM	695	HG2	PRO	X	45	34.333	63.338	44.717	0.00	0.00
ATOM	696	HG3	PRO	X	45	35.246	61.874	44.353	0.00	0.00
ATOM	697	CB	PRO	X	45	34.469	62.681	42.646	0.00	0.00
ATOM	698	HB2	PRO	X	45	33.886	63.561	42.376	0.00	0.00
ATOM	699	HB3	PRO	X	45	33.819	61.808	42.590	0.00	0.00
ATOM	700	CA	PRO	X	45	35.735	62.430	41.794	0.00	0.00
ATOM	701	HA	PRO	X	45	36.075	61.402	41.914	0.00	0.00
ATOM	702	C	PRO	X	45	35.445	62.718	40.307	0.00	0.00
ATOM	703	O	PRO	X	45	35.587	63.880	39.885	0.00	0.00
ATOM	704	N	PRO	X	46	34.976	61.756	39.510	0.00	0.00
ATOM	705	CD	PRO	X	46	35.230	60.339	39.720	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.757	60.053	40.659	0.00	0.00
ATOM	707	HD3	PRO	X	46	36.288	60.093	39.627	0.00	0.00
ATOM	708	CG	PRO	X	46	34.523	59.596	38.520	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.447	59.709	38.395	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.893	58.581	38.370	0.00	0.00
ATOM	711	CB	PRO	X	46	34.984	60.516	37.439	0.00	0.00
ATOM	712	HB2	PRO	X	46	34.439	60.325	36.514	0.00	0.00
ATOM	713	HB3	PRO	X	46	36.046	60.407	37.219	0.00	0.00
ATOM	714	CA	PRO	X	46	34.713	61.943	38.056	0.00	0.00
ATOM	715	HA	PRO	X	46	35.244	62.752	37.554	0.00	0.00
ATOM	716	C	PRO	X	46	33.213	62.335	37.852	0.00	0.00
ATOM	717	O	PRO	X	46	32.505	62.702	38.804	0.00	0.00
ATOM	718	N	GLU	X	47	32.781	62.396	36.602	0.00	0.00
ATOM	719	H	GLU	X	47	33.306	61.760	36.019	0.00	0.00
ATOM	720	CA	GLU	X	47	31.533	62.905	36.091	0.00	0.00
ATOM	721	HA	GLU	X	47	30.639	62.607	36.639	0.00	0.00
ATOM	722	CB	GLU	X	47	31.616	64.459	36.341	0.00	0.00
ATOM	723	HB2	GLU	X	47	30.664	64.866	36.000	0.00	0.00
ATOM	724	HB3	GLU	X	47	31.746	64.663	37.404	0.00	0.00
ATOM	725	CG	GLU	X	47	32.688	65.094	35.353	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.528	64.404	35.433	0.00	0.00
ATOM	727	HG3	GLU	X	47	32.239	65.063	34.361	0.00	0.00
ATOM	728	CD	GLU	X	47	33.027	66.508	35.778	0.00	0.00

ATOM	729	OE1	GLU	X	47	32.478	67.434	35.143	0.00	0.00
ATOM	730	OE2	GLU	X	47	33.857	66.669	36.701	0.00	0.00
ATOM	731	C	GLU	X	47	31.442	62.536	34.558	0.00	0.00
ATOM	732	O	GLU	X	47	32.523	62.453	33.938	0.00	0.00
ATOM	733	N	PRO	X	48	30.240	62.509	33.958	0.00	0.00
ATOM	734	CD	PRO	X	48	28.980	62.998	34.452	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.802	64.062	34.293	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.781	62.715	35.486	0.00	0.00
ATOM	737	CG	PRO	X	48	27.874	62.291	33.577	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.342	63.072	33.035	0.00	0.00
ATOM	739	HG3	PRO	X	48	27.129	61.695	34.104	0.00	0.00
ATOM	740	CB	PRO	X	48	28.555	61.367	32.618	0.00	0.00
ATOM	741	HB2	PRO	X	48	28.040	61.371	31.657	0.00	0.00
ATOM	742	HB3	PRO	X	48	28.522	60.358	33.031	0.00	0.00
ATOM	743	CA	PRO	X	48	30.021	61.933	32.604	0.00	0.00
ATOM	744	HA	PRO	X	48	30.759	61.134	32.529	0.00	0.00
ATOM	745	C	PRO	X	48	30.326	62.764	31.407	0.00	0.00
ATOM	746	O	PRO	X	48	30.020	64.000	31.403	0.00	0.00
ATOM	747	N	LYS	X	49	30.965	62.127	30.408	0.00	0.00
ATOM	748	H	LYS	X	49	31.313	61.210	30.651	0.00	0.00
ATOM	749	CA	LYS	X	49	31.307	62.687	29.083	0.00	0.00
ATOM	750	HA	LYS	X	49	32.115	63.404	29.228	0.00	0.00
ATOM	751	CB	LYS	X	49	31.749	61.542	28.149	0.00	0.00
ATOM	752	HB2	LYS	X	49	32.522	61.024	28.716	0.00	0.00
ATOM	753	HB3	LYS	X	49	30.938	60.814	28.154	0.00	0.00
ATOM	754	CG	LYS	X	49	32.301	61.954	26.731	0.00	0.00
ATOM	755	HG2	LYS	X	49	32.855	61.073	26.406	0.00	0.00
ATOM	756	HG3	LYS	X	49	31.458	62.135	26.065	0.00	0.00
ATOM	757	CD	LYS	X	49	33.281	63.143	26.584	0.00	0.00
ATOM	758	HD2	LYS	X	49	33.702	63.149	25.579	0.00	0.00
ATOM	759	HD3	LYS	X	49	32.725	64.053	26.807	0.00	0.00
ATOM	760	CE	LYS	X	49	34.423	63.018	27.556	0.00	0.00
ATOM	761	HE2	LYS	X	49	34.064	62.992	28.585	0.00	0.00
ATOM	762	HE3	LYS	X	49	34.838	62.035	27.337	0.00	0.00
ATOM	763	NZ	LYS	X	49	35.279	64.170	27.284	0.00	0.00
ATOM	764	HZ1	LYS	X	49	34.767	64.964	27.641	0.00	0.00
ATOM	765	HZ2	LYS	X	49	36.210	64.027	27.648	0.00	0.00
ATOM	766	HZ3	LYS	X	49	35.331	64.271	26.281	0.00	0.00
ATOM	767	C	LYS	X	49	30.189	63.585	28.454	0.00	0.00
ATOM	768	O	LYS	X	49	29.031	63.153	28.220	0.00	0.00
ATOM	769	N	GLN	X	50	30.447	64.864	28.198	0.00	0.00
ATOM	770	H	GLN	X	50	31.366	65.241	28.379	0.00	0.00
ATOM	771	CA	GLN	X	50	29.632	65.788	27.423	0.00	0.00
ATOM	772	HA	GLN	X	50	28.801	65.975	28.103	0.00	0.00
ATOM	773	CB	GLN	X	50	30.394	67.104	27.176	0.00	0.00
ATOM	774	HB2	GLN	X	50	31.042	67.197	28.047	0.00	0.00
ATOM	775	HB3	GLN	X	50	31.041	66.979	26.307	0.00	0.00
ATOM	776	CG	GLN	X	50	29.469	68.303	26.979	0.00	0.00
ATOM	777	HG2	GLN	X	50	28.770	68.018	26.193	0.00	0.00
ATOM	778	HG3	GLN	X	50	28.931	68.505	27.905	0.00	0.00
ATOM	779	CD	GLN	X	50	30.158	69.536	26.328	0.00	0.00
ATOM	780	OE1	GLN	X	50	30.182	69.616	25.154	0.00	0.00
ATOM	781	NE2	GLN	X	50	30.613	70.428	27.116	0.00	0.00
ATOM	782	HE21	GLN	X	50	30.905	71.300	26.697	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.552	70.330	28.119	0.00	0.00
ATOM	784	C	GLN	X	50	29.202	65.178	26.062	0.00	0.00
ATOM	785	O	GLN	X	50	30.105	64.692	25.361	0.00	0.00
ATOM	786	N	PRO	X	51	27.918	65.339	25.664	0.00	0.00
ATOM	787	CD	PRO	X	51	26.796	65.865	26.349	0.00	0.00
ATOM	788	HD2	PRO	X	51	26.957	66.908	26.623	0.00	0.00
ATOM	789	HD3	PRO	X	51	26.644	65.282	27.257	0.00	0.00
ATOM	790	CG	PRO	X	51	25.653	65.730	25.424	0.00	0.00
ATOM	791	HG2	PRO	X	51	25.498	66.629	24.828	0.00	0.00
ATOM	792	HG3	PRO	X	51	24.733	65.558	25.983	0.00	0.00
ATOM	793	CB	PRO	X	51	25.941	64.564	24.565	0.00	0.00
ATOM	794	HB2	PRO	X	51	25.377	64.599	23.633	0.00	0.00
ATOM	795	HB3	PRO	X	51	25.662	63.650	25.089	0.00	0.00

ATOM	796	CA	PRO	X	51	27.499	64.591	24.484	0.00	0.00
ATOM	797	HA	PRO	X	51	27.787	63.553	24.646	0.00	0.00
ATOM	798	C	PRO	X	51	27.992	65.207	23.168	0.00	0.00
ATOM	799	O	PRO	X	51	28.375	66.369	23.145	0.00	0.00
ATOM	800	N	TRP	X	52	27.988	64.416	22.079	0.00	0.00
ATOM	801	H	TRP	X	52	27.662	63.464	22.157	0.00	0.00
ATOM	802	CA	TRP	X	52	28.600	64.907	20.804	0.00	0.00
ATOM	803	HA	TRP	X	52	28.822	65.970	20.898	0.00	0.00
ATOM	804	CB	TRP	X	52	29.869	64.116	20.400	0.00	0.00
ATOM	805	HB2	TRP	X	52	30.164	64.469	19.411	0.00	0.00
ATOM	806	HB3	TRP	X	52	30.730	64.307	21.040	0.00	0.00
ATOM	807	CG	TRP	X	52	29.695	62.604	20.277	0.00	0.00
ATOM	808	CD1	TRP	X	52	29.407	61.919	19.171	0.00	0.00
ATOM	809	HD1	TRP	X	52	29.307	62.365	18.192	0.00	0.00
ATOM	810	NE1	TRP	X	52	29.119	60.644	19.550	0.00	0.00
ATOM	811	HE1	TRP	X	52	28.928	59.887	18.909	0.00	0.00
ATOM	812	CE2	TRP	X	52	29.369	60.404	20.850	0.00	0.00
ATOM	813	CZ2	TRP	X	52	29.220	59.259	21.563	0.00	0.00
ATOM	814	HZ2	TRP	X	52	28.969	58.365	21.011	0.00	0.00
ATOM	815	CH2	TRP	X	52	29.441	59.304	22.944	0.00	0.00
ATOM	816	HH2	TRP	X	52	29.240	58.449	23.573	0.00	0.00
ATOM	817	CZ3	TRP	X	52	29.767	60.521	23.534	0.00	0.00
ATOM	818	HZ3	TRP	X	52	29.995	60.596	24.587	0.00	0.00
ATOM	819	CE3	TRP	X	52	29.900	61.715	22.800	0.00	0.00
ATOM	820	HE3	TRP	X	52	30.122	62.672	23.248	0.00	0.00
ATOM	821	CD2	TRP	X	52	29.652	61.651	21.417	0.00	0.00
ATOM	822	C	TRP	X	52	27.732	64.912	19.528	0.00	0.00
ATOM	823	O	TRP	X	52	26.696	64.315	19.432	0.00	0.00
ATOM	824	N	SER	X	53	28.253	65.656	18.513	0.00	0.00
ATOM	825	H	SER	X	53	29.058	66.217	18.753	0.00	0.00
ATOM	826	CA	SER	X	53	27.747	65.644	17.130	0.00	0.00
ATOM	827	HA	SER	X	53	26.706	65.338	17.021	0.00	0.00
ATOM	828	CB	SER	X	53	27.710	67.047	16.514	0.00	0.00
ATOM	829	HB2	SER	X	53	28.742	67.394	16.466	0.00	0.00
ATOM	830	HB3	SER	X	53	27.417	66.993	15.466	0.00	0.00
ATOM	831	OG	SER	X	53	26.929	68.018	17.178	0.00	0.00
ATOM	832	HG	SER	X	53	27.437	68.798	17.413	0.00	0.00
ATOM	833	C	SER	X	53	28.607	64.770	16.179	0.00	0.00
ATOM	834	O	SER	X	53	29.827	64.722	16.331	0.00	0.00
ATOM	835	N	GLY	X	54	27.926	64.006	15.273	0.00	0.00
ATOM	836	H	GLY	X	54	26.920	64.059	15.348	0.00	0.00
ATOM	837	CA	GLY	X	54	28.479	62.872	14.467	0.00	0.00
ATOM	838	HA2	GLY	X	54	27.713	62.641	13.727	0.00	0.00
ATOM	839	HA3	GLY	X	54	29.384	63.276	14.013	0.00	0.00
ATOM	840	C	GLY	X	54	28.810	61.610	15.283	0.00	0.00
ATOM	841	O	GLY	X	54	28.113	61.194	16.184	0.00	0.00
ATOM	842	N	VAL	X	55	29.922	61.033	14.837	0.00	0.00
ATOM	843	H	VAL	X	55	30.362	61.379	13.996	0.00	0.00
ATOM	844	CA	VAL	X	55	30.436	59.794	15.357	0.00	0.00
ATOM	845	HA	VAL	X	55	29.739	59.421	16.107	0.00	0.00
ATOM	846	CB	VAL	X	55	30.667	58.652	14.284	0.00	0.00
ATOM	847	HB	VAL	X	55	31.573	58.859	13.715	0.00	0.00
ATOM	848	CG1	VAL	X	55	30.782	57.247	14.913	0.00	0.00
ATOM	849	HG11	VAL	X	55	29.953	56.928	15.545	0.00	0.00
ATOM	850	HG12	VAL	X	55	30.963	56.570	14.078	0.00	0.00
ATOM	851	HG13	VAL	X	55	31.668	57.089	15.528	0.00	0.00
ATOM	852	CG2	VAL	X	55	29.442	58.601	13.277	0.00	0.00
ATOM	853	HG21	VAL	X	55	29.406	59.577	12.795	0.00	0.00
ATOM	854	HG22	VAL	X	55	28.641	58.417	13.993	0.00	0.00
ATOM	855	HG23	VAL	X	55	29.533	57.882	12.462	0.00	0.00
ATOM	856	C	VAL	X	55	31.796	59.959	16.013	0.00	0.00
ATOM	857	O	VAL	X	55	32.611	60.622	15.367	0.00	0.00
ATOM	858	N	VAL	X	56	31.865	59.435	17.253	0.00	0.00
ATOM	859	H	VAL	X	56	31.095	58.871	17.584	0.00	0.00
ATOM	860	CA	VAL	X	56	33.118	59.394	18.034	0.00	0.00
ATOM	861	HA	VAL	X	56	33.756	60.203	17.678	0.00	0.00
ATOM	862	CB	VAL	X	56	32.889	59.651	19.578	0.00	0.00

ATOM	863	HB	VAL	X	56	32.010	59.079	19.875	0.00	0.00
ATOM	864	CG1	VAL	X	56	34.071	59.234	20.555	0.00	0.00
ATOM	865	HG11	VAL	X	56	34.105	58.145	20.557	0.00	0.00
ATOM	866	HG12	VAL	X	56	35.018	59.738	20.363	0.00	0.00
ATOM	867	HG13	VAL	X	56	33.652	59.559	21.508	0.00	0.00
ATOM	868	CG2	VAL	X	56	32.673	61.165	19.734	0.00	0.00
ATOM	869	HG21	VAL	X	56	32.297	61.505	20.699	0.00	0.00
ATOM	870	HG22	VAL	X	56	31.843	61.383	19.062	0.00	0.00
ATOM	871	HG23	VAL	X	56	33.585	61.723	19.519	0.00	0.00
ATOM	872	C	VAL	X	56	33.846	58.084	17.625	0.00	0.00
ATOM	873	O	VAL	X	56	33.210	57.036	17.312	0.00	0.00
ATOM	874	N	ASP	X	57	35.160	58.151	17.565	0.00	0.00
ATOM	875	H	ASP	X	57	35.630	59.026	17.750	0.00	0.00
ATOM	876	CA	ASP	X	57	35.974	57.010	17.038	0.00	0.00
ATOM	877	HA	ASP	X	57	35.614	56.613	16.089	0.00	0.00
ATOM	878	CB	ASP	X	57	37.314	57.578	16.727	0.00	0.00
ATOM	879	HB2	ASP	X	57	37.132	58.332	15.962	0.00	0.00
ATOM	880	HB3	ASP	X	57	37.676	58.157	17.577	0.00	0.00
ATOM	881	CG	ASP	X	57	38.347	56.591	16.161	0.00	0.00
ATOM	882	OD1	ASP	X	57	37.946	55.458	15.786	0.00	0.00
ATOM	883	OD2	ASP	X	57	39.549	56.988	16.294	0.00	0.00
ATOM	884	C	ASP	X	57	36.024	55.871	18.062	0.00	0.00
ATOM	885	O	ASP	X	57	36.403	56.134	19.206	0.00	0.00
ATOM	886	N	ALA	X	58	35.529	54.651	17.847	0.00	0.00
ATOM	887	H	ALA	X	58	35.180	54.427	16.926	0.00	0.00
ATOM	888	CA	ALA	X	58	35.639	53.522	18.827	0.00	0.00
ATOM	889	HA	ALA	X	58	36.170	53.818	19.732	0.00	0.00
ATOM	890	CB	ALA	X	58	34.209	53.134	19.292	0.00	0.00
ATOM	891	HB1	ALA	X	58	33.678	54.003	19.682	0.00	0.00
ATOM	892	HB2	ALA	X	58	34.406	52.397	20.070	0.00	0.00
ATOM	893	HB3	ALA	X	58	33.630	52.670	18.494	0.00	0.00
ATOM	894	C	ALA	X	58	36.553	52.325	18.317	0.00	0.00
ATOM	895	O	ALA	X	58	36.108	51.129	18.449	0.00	0.00
ATOM	896	N	THR	X	59	37.689	52.510	17.642	0.00	0.00
ATOM	897	H	THR	X	59	37.955	53.472	17.492	0.00	0.00
ATOM	898	CA	THR	X	59	38.277	51.452	16.792	0.00	0.00
ATOM	899	HA	THR	X	59	37.571	50.630	16.669	0.00	0.00
ATOM	900	CB	THR	X	59	38.868	51.932	15.486	0.00	0.00
ATOM	901	HB	THR	X	59	39.591	51.210	15.107	0.00	0.00
ATOM	902	CG2	THR	X	59	37.941	52.242	14.354	0.00	0.00
ATOM	903	HG21	THR	X	59	38.525	52.472	13.463	0.00	0.00
ATOM	904	HG22	THR	X	59	37.405	53.168	14.560	0.00	0.00
ATOM	905	HG23	THR	X	59	37.208	51.446	14.220	0.00	0.00
ATOM	906	OG1	THR	X	59	39.571	53.153	15.687	0.00	0.00
ATOM	907	HG1	THR	X	59	38.940	53.876	15.708	0.00	0.00
ATOM	908	C	THR	X	59	39.458	50.751	17.521	0.00	0.00
ATOM	909	O	THR	X	59	39.760	49.599	17.243	0.00	0.00
ATOM	910	N	THR	X	60	40.083	51.488	18.470	0.00	0.00
ATOM	911	H	THR	X	60	39.799	52.453	18.559	0.00	0.00
ATOM	912	CA	THR	X	60	41.288	51.109	19.187	0.00	0.00
ATOM	913	HA	THR	X	60	41.096	50.083	19.500	0.00	0.00
ATOM	914	CB	THR	X	60	42.497	51.032	18.283	0.00	0.00
ATOM	915	HB	THR	X	60	42.322	50.308	17.487	0.00	0.00
ATOM	916	CG2	THR	X	60	42.854	52.373	17.816	0.00	0.00
ATOM	917	HG21	THR	X	60	41.999	52.723	17.237	0.00	0.00
ATOM	918	HG22	THR	X	60	43.830	52.303	17.337	0.00	0.00
ATOM	919	HG23	THR	X	60	42.971	52.986	18.709	0.00	0.00
ATOM	920	OG1	THR	X	60	43.687	50.575	18.929	0.00	0.00
ATOM	921	HG1	THR	X	60	43.648	49.636	19.124	0.00	0.00
ATOM	922	C	THR	X	60	41.443	52.053	20.428	0.00	0.00
ATOM	923	O	THR	X	60	40.744	53.056	20.429	0.00	0.00
ATOM	924	N	PHE	X	61	42.253	51.651	21.411	0.00	0.00
ATOM	925	H	PHE	X	61	42.645	50.723	21.343	0.00	0.00
ATOM	926	CA	PHE	X	61	42.668	52.470	22.510	0.00	0.00
ATOM	927	HA	PHE	X	61	41.798	52.906	23.001	0.00	0.00
ATOM	928	CB	PHE	X	61	43.460	51.609	23.529	0.00	0.00
ATOM	929	HB2	PHE	X	61	44.441	51.417	23.093	0.00	0.00

ATOM	930	HB3	PHE	X	61	43.503	52.098	24.502	0.00	0.00
ATOM	931	CG	PHE	X	61	42.840	50.165	23.680	0.00	0.00
ATOM	932	CD1	PHE	X	61	41.903	49.901	24.648	0.00	0.00
ATOM	933	HD1	PHE	X	61	41.662	50.647	25.392	0.00	0.00
ATOM	934	CE1	PHE	X	61	41.470	48.601	24.876	0.00	0.00
ATOM	935	HE1	PHE	X	61	40.731	48.418	25.643	0.00	0.00
ATOM	936	CZ	PHE	X	61	41.978	47.549	24.179	0.00	0.00
ATOM	937	HZ	PHE	X	61	41.585	46.562	24.374	0.00	0.00
ATOM	938	CE2	PHE	X	61	42.991	47.763	23.195	0.00	0.00
ATOM	939	HE2	PHE	X	61	43.413	46.878	22.742	0.00	0.00
ATOM	940	CD2	PHE	X	61	43.494	49.034	22.985	0.00	0.00
ATOM	941	HD2	PHE	X	61	44.211	49.180	22.190	0.00	0.00
ATOM	942	C	PHE	X	61	43.467	53.732	22.185	0.00	0.00
ATOM	943	O	PHE	X	61	44.220	53.868	21.228	0.00	0.00
ATOM	944	N	GLN	X	62	43.163	54.752	22.954	0.00	0.00
ATOM	945	H	GLN	X	62	42.450	54.631	23.659	0.00	0.00
ATOM	946	CA	GLN	X	62	43.565	56.139	22.803	0.00	0.00
ATOM	947	HA	GLN	X	62	43.968	56.290	21.802	0.00	0.00
ATOM	948	CB	GLN	X	62	42.265	56.977	23.043	0.00	0.00
ATOM	949	HB2	GLN	X	62	41.913	56.396	23.895	0.00	0.00
ATOM	950	HB3	GLN	X	62	42.518	58.024	23.209	0.00	0.00
ATOM	951	CG	GLN	X	62	41.186	56.918	21.942	0.00	0.00
ATOM	952	HG2	GLN	X	62	40.871	55.896	21.733	0.00	0.00
ATOM	953	HG3	GLN	X	62	40.343	57.449	22.386	0.00	0.00
ATOM	954	CD	GLN	X	62	41.581	57.617	20.692	0.00	0.00
ATOM	955	OE1	GLN	X	62	42.771	57.837	20.469	0.00	0.00
ATOM	956	NE2	GLN	X	62	40.654	57.998	19.856	0.00	0.00
ATOM	957	HE21	GLN	X	62	40.923	58.093	18.887	0.00	0.00
ATOM	958	HE22	GLN	X	62	39.665	57.870	20.017	0.00	0.00
ATOM	959	C	GLN	X	62	44.660	56.536	23.857	0.00	0.00
ATOM	960	O	GLN	X	62	45.719	57.083	23.479	0.00	0.00
ATOM	961	N	SER	X	63	44.485	56.192	25.125	0.00	0.00
ATOM	962	H	SER	X	63	43.558	55.902	25.402	0.00	0.00
ATOM	963	CA	SER	X	63	45.519	56.420	26.162	0.00	0.00
ATOM	964	HA	SER	X	63	46.396	55.957	25.710	0.00	0.00
ATOM	965	CB	SER	X	63	45.663	57.885	26.476	0.00	0.00
ATOM	966	HB2	SER	X	63	46.492	57.987	27.177	0.00	0.00
ATOM	967	HB3	SER	X	63	46.014	58.378	25.570	0.00	0.00
ATOM	968	OG	SER	X	63	44.469	58.377	27.064	0.00	0.00
ATOM	969	HG	SER	X	63	44.437	59.328	26.938	0.00	0.00
ATOM	970	C	SER	X	63	45.122	55.605	27.320	0.00	0.00
ATOM	971	O	SER	X	63	43.951	55.233	27.554	0.00	0.00
ATOM	972	N	VAL	X	64	46.069	55.460	28.234	0.00	0.00
ATOM	973	H	VAL	X	64	46.927	55.987	28.152	0.00	0.00
ATOM	974	CA	VAL	X	64	45.862	54.787	29.550	0.00	0.00
ATOM	975	HA	VAL	X	64	44.792	54.637	29.691	0.00	0.00
ATOM	976	CB	VAL	X	64	46.492	53.460	29.604	0.00	0.00
ATOM	977	HB	VAL	X	64	46.288	52.955	30.548	0.00	0.00
ATOM	978	CG1	VAL	X	64	45.892	52.553	28.520	0.00	0.00
ATOM	979	HG11	VAL	X	64	46.371	51.577	28.430	0.00	0.00
ATOM	980	HG12	VAL	X	64	44.844	52.444	28.800	0.00	0.00
ATOM	981	HG13	VAL	X	64	45.922	53.046	27.548	0.00	0.00
ATOM	982	CG2	VAL	X	64	48.019	53.364	29.353	0.00	0.00
ATOM	983	HG21	VAL	X	64	48.135	53.875	28.398	0.00	0.00
ATOM	984	HG22	VAL	X	64	48.343	52.323	29.334	0.00	0.00
ATOM	985	HG23	VAL	X	64	48.466	53.815	30.240	0.00	0.00
ATOM	986	C	VAL	X	64	46.367	55.799	30.635	0.00	0.00
ATOM	987	O	VAL	X	64	47.004	56.809	30.334	0.00	0.00
ATOM	988	N	CYX	X	65	46.105	55.457	31.932	0.00	0.00
ATOM	989	H	CYX	X	65	45.482	54.698	32.169	0.00	0.00
ATOM	990	CA	CYX	X	65	46.266	56.421	33.036	0.00	0.00
ATOM	991	HA	CYX	X	65	46.135	57.451	32.706	0.00	0.00
ATOM	992	CB	CYX	X	65	45.223	56.105	34.152	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.269	55.077	34.513	0.00	0.00
ATOM	994	HB3	CYX	X	65	45.449	56.811	34.951	0.00	0.00
ATOM	995	SG	CYX	X	65	43.500	56.347	33.635	0.00	0.00
ATOM	996	C	CYX	X	65	47.690	56.342	33.545	0.00	0.00

ATOM	997	O	CYX	X	65	48.170	55.224	33.801	0.00	0.00
ATOM	998	N	TYR	X	66	48.247	57.560	33.851	0.00	0.00
ATOM	999	H	TYR	X	66	47.742	58.425	33.718	0.00	0.00
ATOM	1000	CA	TYR	X	66	49.631	57.730	34.220	0.00	0.00
ATOM	1001	HA	TYR	X	66	50.198	57.470	33.326	0.00	0.00
ATOM	1002	CB	TYR	X	66	49.818	59.259	34.455	0.00	0.00
ATOM	1003	HB2	TYR	X	66	48.879	59.774	34.658	0.00	0.00
ATOM	1004	HB3	TYR	X	66	50.414	59.512	35.331	0.00	0.00
ATOM	1005	CG	TYR	X	66	50.619	59.966	33.380	0.00	0.00
ATOM	1006	CD1	TYR	X	66	50.002	61.129	32.762	0.00	0.00
ATOM	1007	HD1	TYR	X	66	49.035	61.429	33.139	0.00	0.00
ATOM	1008	CE1	TYR	X	66	50.745	61.906	31.855	0.00	0.00
ATOM	1009	HE1	TYR	X	66	50.282	62.784	31.428	0.00	0.00
ATOM	1010	CZ	TYR	X	66	52.082	61.558	31.536	0.00	0.00
ATOM	1011	OH	TYR	X	66	52.777	62.414	30.689	0.00	0.00
ATOM	1012	HH	TYR	X	66	52.217	63.062	30.256	0.00	0.00
ATOM	1013	CE2	TYR	X	66	52.681	60.342	32.059	0.00	0.00
ATOM	1014	HE2	TYR	X	66	53.711	60.113	31.830	0.00	0.00
ATOM	1015	CD2	TYR	X	66	51.943	59.555	32.941	0.00	0.00
ATOM	1016	HD2	TYR	X	66	52.344	58.592	33.222	0.00	0.00
ATOM	1017	C	TYR	X	66	50.143	56.876	35.374	0.00	0.00
ATOM	1018	O	TYR	X	66	49.494	56.914	36.420	0.00	0.00
ATOM	1019	N	GLN	X	67	51.160	56.054	35.128	0.00	0.00
ATOM	1020	H	GLN	X	67	51.746	56.121	34.308	0.00	0.00
ATOM	1021	CA	GLN	X	67	51.435	54.899	36.044	0.00	0.00
ATOM	1022	HA	GLN	X	67	51.289	55.227	37.073	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.539	53.716	35.823	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.799	53.069	36.660	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.528	54.044	36.065	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.674	53.028	34.491	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.480	53.826	33.775	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.555	52.392	34.408	0.00	0.00
ATOM	1029	CD	GLN	X	67	49.544	51.951	34.372	0.00	0.00
ATOM	1030	OE1	GLN	X	67	49.741	50.768	34.283	0.00	0.00
ATOM	1031	NE2	GLN	X	67	48.342	52.462	34.336	0.00	0.00
ATOM	1032	HE21	GLN	X	67	47.656	51.738	34.491	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.108	53.425	34.139	0.00	0.00
ATOM	1034	C	GLN	X	67	52.911	54.541	35.887	0.00	0.00
ATOM	1035	O	GLN	X	67	53.559	54.713	34.812	0.00	0.00
ATOM	1036	N	TYR	X	68	53.342	53.861	36.945	0.00	0.00
ATOM	1037	H	TYR	X	68	52.781	53.771	37.780	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.616	53.244	36.965	0.00	0.00
ATOM	1039	HA	TYR	X	68	55.386	53.903	36.563	0.00	0.00
ATOM	1040	CB	TYR	X	68	55.013	52.957	38.437	0.00	0.00
ATOM	1041	HB2	TYR	X	68	55.169	53.893	38.973	0.00	0.00
ATOM	1042	HB3	TYR	X	68	54.165	52.531	38.974	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.182	52.072	38.577	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.542	52.571	38.609	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.726	53.634	38.580	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.607	51.632	38.614	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.624	51.981	38.714	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.381	50.251	38.840	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.413	49.417	39.083	0.00	0.00
ATOM	1050	HH	TYR	X	68	60.239	49.873	39.261	0.00	0.00
ATOM	1051	CE2	TYR	X	68	57.043	49.778	38.843	0.00	0.00
ATOM	1052	HE2	TYR	X	68	56.786	48.751	39.055	0.00	0.00
ATOM	1053	CD2	TYR	X	68	55.951	50.656	38.647	0.00	0.00
ATOM	1054	HD2	TYR	X	68	54.940	50.296	38.771	0.00	0.00
ATOM	1055	C	TYR	X	68	54.501	51.912	36.102	0.00	0.00
ATOM	1056	O	TYR	X	68	53.460	51.300	36.109	0.00	0.00
ATOM	1057	N	VAL	X	69	55.553	51.558	35.360	0.00	0.00
ATOM	1058	H	VAL	X	69	56.235	52.303	35.400	0.00	0.00
ATOM	1059	CA	VAL	X	69	55.734	50.301	34.668	0.00	0.00
ATOM	1060	HA	VAL	X	69	54.950	49.626	35.010	0.00	0.00
ATOM	1061	CB	VAL	X	69	55.795	50.430	33.103	0.00	0.00
ATOM	1062	HB	VAL	X	69	56.055	49.481	32.634	0.00	0.00
ATOM	1063	CG1	VAL	X	69	54.396	50.750	32.602	0.00	0.00

ATOM	1064	HG11	VAL	X	69	54.470	50.703	31.516	0.00	0.00
ATOM	1065	HG12	VAL	X	69	53.760	49.931	32.940	0.00	0.00
ATOM	1066	HG13	VAL	X	69	53.980	51.704	32.927	0.00	0.00
ATOM	1067	CG2	VAL	X	69	56.732	51.510	32.614	0.00	0.00
ATOM	1068	HG21	VAL	X	69	56.457	52.549	32.799	0.00	0.00
ATOM	1069	HG22	VAL	X	69	56.866	51.391	31.539	0.00	0.00
ATOM	1070	HG23	VAL	X	69	57.706	51.332	33.070	0.00	0.00
ATOM	1071	C	VAL	X	69	57.024	49.628	35.167	0.00	0.00
ATOM	1072	O	VAL	X	69	57.986	50.379	35.411	0.00	0.00
ATOM	1073	N	ASP	X	70	57.087	48.267	35.268	0.00	0.00
ATOM	1074	H	ASP	X	70	56.306	47.695	34.983	0.00	0.00
ATOM	1075	CA	ASP	X	70	58.213	47.666	35.943	0.00	0.00
ATOM	1076	HA	ASP	X	70	58.214	48.135	36.927	0.00	0.00
ATOM	1077	CB	ASP	X	70	57.944	46.180	36.142	0.00	0.00
ATOM	1078	HB2	ASP	X	70	56.881	46.026	36.331	0.00	0.00
ATOM	1079	HB3	ASP	X	70	58.070	45.757	35.145	0.00	0.00
ATOM	1080	CG	ASP	X	70	58.991	45.559	37.116	0.00	0.00
ATOM	1081	OD1	ASP	X	70	60.099	45.198	36.730	0.00	0.00
ATOM	1082	OD2	ASP	X	70	58.659	45.606	38.345	0.00	0.00
ATOM	1083	C	ASP	X	70	59.629	47.998	35.359	0.00	0.00
ATOM	1084	O	ASP	X	70	59.824	47.917	34.121	0.00	0.00
ATOM	1085	N	THR	X	71	60.487	48.569	36.265	0.00	0.00
ATOM	1086	H	THR	X	71	60.223	48.516	37.239	0.00	0.00
ATOM	1087	CA	THR	X	71	61.835	49.002	35.928	0.00	0.00
ATOM	1088	HA	THR	X	71	61.919	49.110	34.847	0.00	0.00
ATOM	1089	CB	THR	X	71	62.321	50.292	36.645	0.00	0.00
ATOM	1090	HB	THR	X	71	63.368	50.444	36.381	0.00	0.00
ATOM	1091	CG2	THR	X	71	61.650	51.597	36.238	0.00	0.00
ATOM	1092	HG21	THR	X	71	61.792	52.254	37.096	0.00	0.00
ATOM	1093	HG22	THR	X	71	60.585	51.425	36.081	0.00	0.00
ATOM	1094	HG23	THR	X	71	61.961	52.030	35.287	0.00	0.00
ATOM	1095	OG1	THR	X	71	62.096	50.021	37.998	0.00	0.00
ATOM	1096	HG1	THR	X	71	62.652	50.674	38.429	0.00	0.00
ATOM	1097	C	THR	X	71	62.952	47.917	36.192	0.00	0.00
ATOM	1098	O	THR	X	71	64.039	48.126	35.644	0.00	0.00
ATOM	1099	N	LEU	X	72	62.728	46.899	36.975	0.00	0.00
ATOM	1100	H	LEU	X	72	61.784	46.650	37.235	0.00	0.00
ATOM	1101	CA	LEU	X	72	63.823	46.086	37.505	0.00	0.00
ATOM	1102	HA	LEU	X	72	64.689	46.707	37.737	0.00	0.00
ATOM	1103	CB	LEU	X	72	63.249	45.334	38.747	0.00	0.00
ATOM	1104	HB2	LEU	X	72	62.685	45.994	39.406	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.572	44.598	38.313	0.00	0.00
ATOM	1106	CG	LEU	X	72	64.323	44.462	39.469	0.00	0.00
ATOM	1107	HG	LEU	X	72	64.982	43.950	38.768	0.00	0.00
ATOM	1108	CD1	LEU	X	72	65.311	45.472	40.139	0.00	0.00
ATOM	1109	HD11	LEU	X	72	65.876	45.094	40.991	0.00	0.00
ATOM	1110	HD12	LEU	X	72	64.834	46.409	40.426	0.00	0.00
ATOM	1111	HD13	LEU	X	72	66.096	45.725	39.426	0.00	0.00
ATOM	1112	CD2	LEU	X	72	63.723	43.657	40.618	0.00	0.00
ATOM	1113	HD21	LEU	X	72	63.027	42.924	40.211	0.00	0.00
ATOM	1114	HD22	LEU	X	72	64.543	43.152	41.128	0.00	0.00
ATOM	1115	HD23	LEU	X	72	63.178	44.342	41.268	0.00	0.00
ATOM	1116	C	LEU	X	72	64.322	45.239	36.348	0.00	0.00
ATOM	1117	O	LEU	X	72	65.502	45.093	36.191	0.00	0.00
ATOM	1118	N	TYR	X	73	63.431	44.573	35.577	0.00	0.00
ATOM	1119	H	TYR	X	73	62.455	44.723	35.790	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.828	43.623	34.512	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.886	43.369	34.448	0.00	0.00
ATOM	1122	CB	TYR	X	73	63.205	42.314	34.815	0.00	0.00
ATOM	1123	HB2	TYR	X	73	62.116	42.351	34.801	0.00	0.00
ATOM	1124	HB3	TYR	X	73	63.671	41.687	34.055	0.00	0.00
ATOM	1125	CG	TYR	X	73	63.489	41.661	36.147	0.00	0.00
ATOM	1126	CD1	TYR	X	73	64.766	41.683	36.765	0.00	0.00
ATOM	1127	HD1	TYR	X	73	65.575	42.218	36.290	0.00	0.00
ATOM	1128	CE1	TYR	X	73	64.964	41.181	38.038	0.00	0.00
ATOM	1129	HE1	TYR	X	73	65.944	41.201	38.492	0.00	0.00
ATOM	1130	CZ	TYR	X	73	63.868	40.686	38.767	0.00	0.00

ATOM	1131	OH	TYR	X	73	64.159	40.211	40.014	0.00	0.00
ATOM	1132	HH	TYR	X	73	63.308	40.146	40.453	0.00	0.00
ATOM	1133	CE2	TYR	X	73	62.606	40.595	38.178	0.00	0.00
ATOM	1134	HE2	TYR	X	73	61.744	40.121	38.624	0.00	0.00
ATOM	1135	CD2	TYR	X	73	62.472	41.113	36.875	0.00	0.00
ATOM	1136	HD2	TYR	X	73	61.506	41.012	36.403	0.00	0.00
ATOM	1137	C	TYR	X	73	63.428	44.119	33.061	0.00	0.00
ATOM	1138	O	TYR	X	73	62.675	43.474	32.385	0.00	0.00
ATOM	1139	N	PRO	X	74	64.014	45.244	32.600	0.00	0.00
ATOM	1140	CD	PRO	X	74	65.127	45.889	33.238	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.947	45.263	33.591	0.00	0.00
ATOM	1142	HD3	PRO	X	74	64.744	46.384	34.130	0.00	0.00
ATOM	1143	CG	PRO	X	74	65.628	46.916	32.198	0.00	0.00
ATOM	1144	HG2	PRO	X	74	66.286	46.383	31.511	0.00	0.00
ATOM	1145	HG3	PRO	X	74	66.144	47.801	32.569	0.00	0.00
ATOM	1146	CB	PRO	X	74	64.281	47.259	31.454	0.00	0.00
ATOM	1147	HB2	PRO	X	74	64.418	47.691	30.462	0.00	0.00
ATOM	1148	HB3	PRO	X	74	63.871	48.019	32.119	0.00	0.00
ATOM	1149	CA	PRO	X	74	63.595	45.882	31.368	0.00	0.00
ATOM	1150	HA	PRO	X	74	62.532	46.108	31.457	0.00	0.00
ATOM	1151	C	PRO	X	74	63.887	45.045	30.114	0.00	0.00
ATOM	1152	O	PRO	X	74	65.027	44.725	29.799	0.00	0.00
ATOM	1153	N	GLY	X	75	62.779	44.670	29.436	0.00	0.00
ATOM	1154	H	GLY	X	75	61.918	44.779	29.953	0.00	0.00
ATOM	1155	CA	GLY	X	75	62.767	43.927	28.180	0.00	0.00
ATOM	1156	HA2	GLY	X	75	61.910	44.284	27.610	0.00	0.00
ATOM	1157	HA3	GLY	X	75	63.581	44.243	27.527	0.00	0.00
ATOM	1158	C	GLY	X	75	62.574	42.405	28.338	0.00	0.00
ATOM	1159	O	GLY	X	75	62.806	41.649	27.343	0.00	0.00
ATOM	1160	N	PHE	X	76	62.273	41.892	29.550	0.00	0.00
ATOM	1161	H	PHE	X	76	62.095	42.462	30.365	0.00	0.00
ATOM	1162	CA	PHE	X	76	62.026	40.412	29.800	0.00	0.00
ATOM	1163	HA	PHE	X	76	62.510	39.870	28.988	0.00	0.00
ATOM	1164	CB	PHE	X	76	62.705	40.131	31.152	0.00	0.00
ATOM	1165	HB2	PHE	X	76	63.737	39.928	30.866	0.00	0.00
ATOM	1166	HB3	PHE	X	76	62.670	41.027	31.770	0.00	0.00
ATOM	1167	CG	PHE	X	76	62.113	39.028	32.006	0.00	0.00
ATOM	1168	CD1	PHE	X	76	62.172	37.709	31.587	0.00	0.00
ATOM	1169	HD1	PHE	X	76	62.609	37.450	30.634	0.00	0.00
ATOM	1170	CE1	PHE	X	76	61.566	36.728	32.427	0.00	0.00
ATOM	1171	HE1	PHE	X	76	61.568	35.673	32.196	0.00	0.00
ATOM	1172	CZ	PHE	X	76	60.899	37.121	33.653	0.00	0.00
ATOM	1173	HZ	PHE	X	76	60.473	36.444	34.379	0.00	0.00
ATOM	1174	CE2	PHE	X	76	60.912	38.459	34.033	0.00	0.00
ATOM	1175	HE2	PHE	X	76	60.410	38.820	34.919	0.00	0.00
ATOM	1176	CD2	PHE	X	76	61.465	39.438	33.158	0.00	0.00
ATOM	1177	HD2	PHE	X	76	61.219	40.454	33.429	0.00	0.00
ATOM	1178	C	PHE	X	76	60.534	40.113	29.739	0.00	0.00
ATOM	1179	O	PHE	X	76	59.655	40.860	30.199	0.00	0.00
ATOM	1180	N	GLU	X	77	60.207	38.898	29.343	0.00	0.00
ATOM	1181	H	GLU	X	77	60.978	38.322	29.037	0.00	0.00
ATOM	1182	CA	GLU	X	77	58.847	38.383	29.040	0.00	0.00
ATOM	1183	HA	GLU	X	77	58.520	38.940	28.162	0.00	0.00
ATOM	1184	CB	GLU	X	77	58.936	36.874	28.683	0.00	0.00
ATOM	1185	HB2	GLU	X	77	59.617	36.367	29.367	0.00	0.00
ATOM	1186	HB3	GLU	X	77	58.025	36.391	29.035	0.00	0.00
ATOM	1187	CG	GLU	X	77	59.316	36.506	27.266	0.00	0.00
ATOM	1188	HG2	GLU	X	77	59.643	35.475	27.137	0.00	0.00
ATOM	1189	HG3	GLU	X	77	58.430	36.721	26.669	0.00	0.00
ATOM	1190	CD	GLU	X	77	60.531	37.269	26.767	0.00	0.00
ATOM	1191	OE1	GLU	X	77	60.453	38.031	25.748	0.00	0.00
ATOM	1192	OE2	GLU	X	77	61.568	37.193	27.438	0.00	0.00
ATOM	1193	C	GLU	X	77	57.808	38.525	30.142	0.00	0.00
ATOM	1194	O	GLU	X	77	56.655	38.923	29.854	0.00	0.00
ATOM	1195	N	GLY	X	78	58.197	38.174	31.373	0.00	0.00
ATOM	1196	H	GLY	X	78	59.179	37.976	31.496	0.00	0.00
ATOM	1197	CA	GLY	X	78	57.313	38.160	32.530	0.00	0.00

ATOM	1198	HA2	GLY	X	78	56.441	37.520	32.397	0.00	0.00
ATOM	1199	HA3	GLY	X	78	57.912	37.779	33.358	0.00	0.00
ATOM	1200	C	GLY	X	78	56.895	39.590	33.038	0.00	0.00
ATOM	1201	O	GLY	X	78	56.023	39.635	33.891	0.00	0.00
ATOM	1202	N	THR	X	79	57.541	40.619	32.479	0.00	0.00
ATOM	1203	H	THR	X	79	58.313	40.404	31.865	0.00	0.00
ATOM	1204	CA	THR	X	79	57.265	42.021	32.876	0.00	0.00
ATOM	1205	HA	THR	X	79	56.563	42.081	33.708	0.00	0.00
ATOM	1206	CB	THR	X	79	58.526	42.738	33.466	0.00	0.00
ATOM	1207	HB	THR	X	79	58.270	43.788	33.611	0.00	0.00
ATOM	1208	CG2	THR	X	79	58.804	42.046	34.909	0.00	0.00
ATOM	1209	HG21	THR	X	79	59.830	42.322	35.152	0.00	0.00
ATOM	1210	HG22	THR	X	79	58.715	40.961	34.860	0.00	0.00
ATOM	1211	HG23	THR	X	79	58.148	42.556	35.614	0.00	0.00
ATOM	1212	OG1	THR	X	79	59.647	42.602	32.683	0.00	0.00
ATOM	1213	HG1	THR	X	79	60.422	43.007	33.079	0.00	0.00
ATOM	1214	C	THR	X	79	56.667	42.791	31.644	0.00	0.00
ATOM	1215	O	THR	X	79	55.558	43.324	31.822	0.00	0.00
ATOM	1216	N	GLU	X	80	57.317	42.736	30.528	0.00	0.00
ATOM	1217	H	GLU	X	80	58.239	42.328	30.465	0.00	0.00
ATOM	1218	CA	GLU	X	80	56.876	43.416	29.292	0.00	0.00
ATOM	1219	HA	GLU	X	80	56.713	44.477	29.482	0.00	0.00
ATOM	1220	CB	GLU	X	80	57.910	43.312	28.143	0.00	0.00
ATOM	1221	HB2	GLU	X	80	57.758	44.176	27.495	0.00	0.00
ATOM	1222	HB3	GLU	X	80	58.861	43.290	28.677	0.00	0.00
ATOM	1223	CG	GLU	X	80	57.772	42.048	27.295	0.00	0.00
ATOM	1224	HG2	GLU	X	80	57.849	41.208	27.985	0.00	0.00
ATOM	1225	HG3	GLU	X	80	56.756	41.995	26.903	0.00	0.00
ATOM	1226	CD	GLU	X	80	58.708	42.044	26.127	0.00	0.00
ATOM	1227	OE1	GLU	X	80	59.330	40.999	25.755	0.00	0.00
ATOM	1228	OE2	GLU	X	80	58.969	43.116	25.567	0.00	0.00
ATOM	1229	C	GLU	X	80	55.432	43.088	28.865	0.00	0.00
ATOM	1230	O	GLU	X	80	54.776	43.974	28.316	0.00	0.00
ATOM	1231	N	MET	X	81	54.830	41.922	29.185	0.00	0.00
ATOM	1232	H	MET	X	81	55.386	41.171	29.569	0.00	0.00
ATOM	1233	CA	MET	X	81	53.402	41.673	28.832	0.00	0.00
ATOM	1234	HA	MET	X	81	53.249	41.976	27.796	0.00	0.00
ATOM	1235	CB	MET	X	81	53.072	40.150	28.955	0.00	0.00
ATOM	1236	HB2	MET	X	81	52.032	39.946	28.703	0.00	0.00
ATOM	1237	HB3	MET	X	81	53.565	39.531	28.206	0.00	0.00
ATOM	1238	CG	MET	X	81	53.314	39.690	30.432	0.00	0.00
ATOM	1239	HG2	MET	X	81	54.375	39.768	30.671	0.00	0.00
ATOM	1240	HG3	MET	X	81	52.677	40.330	31.043	0.00	0.00
ATOM	1241	SD	MET	X	81	52.790	37.893	30.678	0.00	0.00
ATOM	1242	CE	MET	X	81	50.960	38.033	30.435	0.00	0.00
ATOM	1243	HE1	MET	X	81	50.437	37.079	30.512	0.00	0.00
ATOM	1244	HE2	MET	X	81	50.551	38.795	31.098	0.00	0.00
ATOM	1245	HE3	MET	X	81	50.658	38.384	29.448	0.00	0.00
ATOM	1246	C	MET	X	81	52.452	42.528	29.638	0.00	0.00
ATOM	1247	O	MET	X	81	51.300	42.643	29.192	0.00	0.00
ATOM	1248	N	TRP	X	82	52.853	42.998	30.798	0.00	0.00
ATOM	1249	H	TRP	X	82	53.753	42.710	31.154	0.00	0.00
ATOM	1250	CA	TRP	X	82	52.012	43.903	31.602	0.00	0.00
ATOM	1251	HA	TRP	X	82	50.993	43.591	31.372	0.00	0.00
ATOM	1252	CB	TRP	X	82	52.227	43.581	33.125	0.00	0.00
ATOM	1253	HB2	TRP	X	82	53.131	44.138	33.373	0.00	0.00
ATOM	1254	HB3	TRP	X	82	51.404	44.022	33.686	0.00	0.00
ATOM	1255	CG	TRP	X	82	52.302	42.134	33.481	0.00	0.00
ATOM	1256	CD1	TRP	X	82	53.379	41.421	33.819	0.00	0.00
ATOM	1257	HD1	TRP	X	82	54.366	41.860	33.817	0.00	0.00
ATOM	1258	NE1	TRP	X	82	53.065	40.116	34.018	0.00	0.00
ATOM	1259	HE1	TRP	X	82	53.745	39.395	34.212	0.00	0.00
ATOM	1260	CE2	TRP	X	82	51.701	39.934	33.799	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	50.893	38.779	33.807	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	51.376	37.843	34.044	0.00	0.00
ATOM	1263	CH2	TRP	X	82	49.554	38.944	33.581	0.00	0.00
ATOM	1264	HH2	TRP	X	82	48.850	38.132	33.687	0.00	0.00

ATOM	1265	CZ3	TRP	X	82	48.985	40.203	33.213	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	47.932	40.302	32.997	0.00	0.00
ATOM	1267	CE3	TRP	X	82	49.819	41.315	33.143	0.00	0.00
ATOM	1268	HE3	TRP	X	82	49.441	42.277	32.830	0.00	0.00
ATOM	1269	CD2	TRP	X	82	51.202	41.225	33.507	0.00	0.00
ATOM	1270	C	TRP	X	82	52.249	45.400	31.241	0.00	0.00
ATOM	1271	O	TRP	X	82	51.374	46.294	31.590	0.00	0.00
ATOM	1272	N	ASN	X	83	53.329	45.705	30.540	0.00	0.00
ATOM	1273	H	ASN	X	83	53.655	44.935	29.974	0.00	0.00
ATOM	1274	CA	ASN	X	83	53.574	47.065	30.014	0.00	0.00
ATOM	1275	HA	ASN	X	83	53.352	47.857	30.730	0.00	0.00
ATOM	1276	CB	ASN	X	83	55.114	47.104	29.566	0.00	0.00
ATOM	1277	HB2	ASN	X	83	55.799	46.628	30.268	0.00	0.00
ATOM	1278	HB3	ASN	X	83	55.212	46.489	28.672	0.00	0.00
ATOM	1279	CG	ASN	X	83	55.695	48.486	29.367	0.00	0.00
ATOM	1280	OD1	ASN	X	83	54.994	49.402	29.009	0.00	0.00
ATOM	1281	ND2	ASN	X	83	56.943	48.676	29.690	0.00	0.00
ATOM	1282	HD21	ASN	X	83	57.326	49.601	29.559	0.00	0.00
ATOM	1283	HD22	ASN	X	83	57.578	47.964	30.021	0.00	0.00
ATOM	1284	C	ASN	X	83	52.671	47.379	28.776	0.00	0.00
ATOM	1285	O	ASN	X	83	52.571	46.606	27.859	0.00	0.00
ATOM	1286	N	PRO	X	84	51.999	48.583	28.719	0.00	0.00
ATOM	1287	CD	PRO	X	84	51.824	49.506	29.863	0.00	0.00
ATOM	1288	HD2	PRO	X	84	52.754	50.045	30.044	0.00	0.00
ATOM	1289	HD3	PRO	X	84	51.596	48.863	30.713	0.00	0.00
ATOM	1290	CG	PRO	X	84	50.624	50.373	29.522	0.00	0.00
ATOM	1291	HG2	PRO	X	84	51.017	51.355	29.259	0.00	0.00
ATOM	1292	HG3	PRO	X	84	49.970	50.335	30.394	0.00	0.00
ATOM	1293	CB	PRO	X	84	49.975	49.693	28.382	0.00	0.00
ATOM	1294	HB2	PRO	X	84	49.596	50.468	27.716	0.00	0.00
ATOM	1295	HB3	PRO	X	84	49.160	49.031	28.675	0.00	0.00
ATOM	1296	CA	PRO	X	84	51.115	48.931	27.693	0.00	0.00
ATOM	1297	HA	PRO	X	84	50.565	48.089	27.273	0.00	0.00
ATOM	1298	C	PRO	X	84	51.870	49.624	26.507	0.00	0.00
ATOM	1299	O	PRO	X	84	52.947	50.197	26.715	0.00	0.00
ATOM	1300	N	ASN	X	85	51.395	49.509	25.257	0.00	0.00
ATOM	1301	H	ASN	X	85	50.562	48.939	25.228	0.00	0.00
ATOM	1302	CA	ASN	X	85	51.904	50.150	24.054	0.00	0.00
ATOM	1303	HA	ASN	X	85	52.964	50.393	24.123	0.00	0.00
ATOM	1304	CB	ASN	X	85	51.707	49.196	22.844	0.00	0.00
ATOM	1305	HB2	ASN	X	85	52.123	49.659	21.949	0.00	0.00
ATOM	1306	HB3	ASN	X	85	52.274	48.285	23.038	0.00	0.00
ATOM	1307	CG	ASN	X	85	50.301	48.764	22.515	0.00	0.00
ATOM	1308	OD1	ASN	X	85	49.343	49.115	23.190	0.00	0.00
ATOM	1309	ND2	ASN	X	85	50.206	47.984	21.508	0.00	0.00
ATOM	1310	HD21	ASN	X	85	49.294	47.689	21.188	0.00	0.00
ATOM	1311	HD22	ASN	X	85	50.989	47.757	20.912	0.00	0.00
ATOM	1312	C	ASN	X	85	51.257	51.504	23.713	0.00	0.00
ATOM	1313	O	ASN	X	85	51.231	51.909	22.509	0.00	0.00
ATOM	1314	N	ARG	X	86	50.560	52.107	24.679	0.00	0.00
ATOM	1315	H	ARG	X	86	50.757	51.698	25.581	0.00	0.00
ATOM	1316	CA	ARG	X	86	49.715	53.260	24.568	0.00	0.00
ATOM	1317	HA	ARG	X	86	49.721	53.522	23.510	0.00	0.00
ATOM	1318	CB	ARG	X	86	48.272	52.978	25.108	0.00	0.00
ATOM	1319	HB2	ARG	X	86	48.346	52.682	26.155	0.00	0.00
ATOM	1320	HB3	ARG	X	86	47.515	53.749	24.967	0.00	0.00
ATOM	1321	CG	ARG	X	86	47.688	51.806	24.368	0.00	0.00
ATOM	1322	HG2	ARG	X	86	48.338	50.954	24.564	0.00	0.00
ATOM	1323	HG3	ARG	X	86	46.723	51.524	24.788	0.00	0.00
ATOM	1324	CD	ARG	X	86	47.296	52.093	22.906	0.00	0.00
ATOM	1325	HD2	ARG	X	86	46.468	52.789	22.774	0.00	0.00
ATOM	1326	HD3	ARG	X	86	48.201	52.436	22.404	0.00	0.00
ATOM	1327	NE	ARG	X	86	47.058	50.831	22.185	0.00	0.00
ATOM	1328	HE	ARG	X	86	47.640	50.102	22.574	0.00	0.00
ATOM	1329	CZ	ARG	X	86	46.476	50.620	20.998	0.00	0.00
ATOM	1330	NH1	ARG	X	86	45.930	51.647	20.286	0.00	0.00
ATOM	1331	HH11	ARG	X	86	45.601	52.508	20.698	0.00	0.00

ATOM	1332	HH12	ARG	X	86	45.360	51.399	19.490	0.00	0.00
ATOM	1333	NH2	ARG	X	86	46.437	49.413	20.499	0.00	0.00
ATOM	1334	HH21	ARG	X	86	46.900	48.695	21.036	0.00	0.00
ATOM	1335	HH22	ARG	X	86	45.964	49.217	19.628	0.00	0.00
ATOM	1336	C	ARG	X	86	50.391	54.423	25.331	0.00	0.00
ATOM	1337	O	ARG	X	86	51.377	54.326	26.121	0.00	0.00
ATOM	1338	N	GLU	X	87	49.709	55.539	25.147	0.00	0.00
ATOM	1339	H	GLU	X	87	49.062	55.639	24.378	0.00	0.00
ATOM	1340	CA	GLU	X	87	50.195	56.750	25.734	0.00	0.00
ATOM	1341	HA	GLU	X	87	51.279	56.864	25.738	0.00	0.00
ATOM	1342	CB	GLU	X	87	49.632	57.986	25.052	0.00	0.00
ATOM	1343	HB2	GLU	X	87	49.980	57.944	24.020	0.00	0.00
ATOM	1344	HB3	GLU	X	87	48.549	58.068	24.966	0.00	0.00
ATOM	1345	CG	GLU	X	87	50.236	59.335	25.525	0.00	0.00
ATOM	1346	HG2	GLU	X	87	49.683	59.681	26.398	0.00	0.00
ATOM	1347	HG3	GLU	X	87	51.263	59.221	25.873	0.00	0.00
ATOM	1348	CD	GLU	X	87	50.065	60.384	24.430	0.00	0.00
ATOM	1349	OE1	GLU	X	87	48.963	60.511	23.754	0.00	0.00
ATOM	1350	OE2	GLU	X	87	51.014	61.108	24.103	0.00	0.00
ATOM	1351	C	GLU	X	87	49.723	56.831	27.197	0.00	0.00
ATOM	1352	O	GLU	X	87	48.524	56.574	27.525	0.00	0.00
ATOM	1353	N	LEU	X	88	50.635	57.021	28.125	0.00	0.00
ATOM	1354	H	LEU	X	88	51.624	56.997	27.921	0.00	0.00
ATOM	1355	CA	LEU	X	88	50.323	57.355	29.503	0.00	0.00
ATOM	1356	HA	LEU	X	88	49.477	56.764	29.855	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.521	57.131	30.434	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.431	57.679	30.186	0.00	0.00
ATOM	1359	HB3	LEU	X	88	51.239	57.445	31.439	0.00	0.00
ATOM	1360	CG	LEU	X	88	52.102	55.688	30.688	0.00	0.00
ATOM	1361	HG	LEU	X	88	52.543	55.307	29.767	0.00	0.00
ATOM	1362	CD1	LEU	X	88	53.303	55.836	31.663	0.00	0.00
ATOM	1363	HD11	LEU	X	88	54.105	56.399	31.187	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.752	54.858	31.840	0.00	0.00
ATOM	1365	HD13	LEU	X	88	53.149	56.288	32.642	0.00	0.00
ATOM	1366	CD2	LEU	X	88	51.081	54.657	31.212	0.00	0.00
ATOM	1367	HD21	LEU	X	88	50.371	55.052	31.938	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.565	54.261	30.338	0.00	0.00
ATOM	1369	HD23	LEU	X	88	51.528	53.818	31.745	0.00	0.00
ATOM	1370	C	LEU	X	88	49.851	58.835	29.579	0.00	0.00
ATOM	1371	O	LEU	X	88	50.647	59.737	29.330	0.00	0.00
ATOM	1372	N	SER	X	89	48.616	59.135	29.939	0.00	0.00
ATOM	1373	H	SER	X	89	48.111	58.415	30.436	0.00	0.00
ATOM	1374	CA	SER	X	89	48.081	60.514	29.883	0.00	0.00
ATOM	1375	HA	SER	X	89	48.853	61.282	29.921	0.00	0.00
ATOM	1376	CB	SER	X	89	47.367	60.550	28.530	0.00	0.00
ATOM	1377	HB2	SER	X	89	48.101	60.527	27.725	0.00	0.00
ATOM	1378	HB3	SER	X	89	46.715	59.686	28.394	0.00	0.00
ATOM	1379	OG	SER	X	89	46.604	61.741	28.191	0.00	0.00
ATOM	1380	HG	SER	X	89	46.019	61.464	27.482	0.00	0.00
ATOM	1381	C	SER	X	89	47.082	60.762	31.043	0.00	0.00
ATOM	1382	O	SER	X	89	46.981	59.915	31.945	0.00	0.00
ATOM	1383	N	GLU	X	90	46.455	61.981	31.124	0.00	0.00
ATOM	1384	H	GLU	X	90	46.455	62.680	30.395	0.00	0.00
ATOM	1385	CA	GLU	X	90	45.457	62.308	32.089	0.00	0.00
ATOM	1386	HA	GLU	X	90	45.327	61.560	32.871	0.00	0.00
ATOM	1387	CB	GLU	X	90	45.885	63.631	32.740	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.965	64.462	32.039	0.00	0.00
ATOM	1389	HB3	GLU	X	90	45.163	63.813	33.535	0.00	0.00
ATOM	1390	CG	GLU	X	90	47.230	63.725	33.434	0.00	0.00
ATOM	1391	HG2	GLU	X	90	47.496	62.779	33.906	0.00	0.00
ATOM	1392	HG3	GLU	X	90	48.047	63.832	32.720	0.00	0.00
ATOM	1393	CD	GLU	X	90	47.349	64.978	34.415	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.907	64.824	35.594	0.00	0.00
ATOM	1395	OE2	GLU	X	90	47.890	65.988	33.921	0.00	0.00
ATOM	1396	C	GLU	X	90	44.135	62.425	31.282	0.00	0.00
ATOM	1397	O	GLU	X	90	43.149	62.591	31.980	0.00	0.00
ATOM	1398	N	ASP	X	91	44.041	62.154	29.980	0.00	0.00

ATOM	1399	H	ASP	X	91	44.883	62.060	29.429	0.00	0.00
ATOM	1400	CA	ASP	X	91	42.729	62.093	29.348	0.00	0.00
ATOM	1401	HA	ASP	X	91	42.056	62.631	30.015	0.00	0.00
ATOM	1402	CB	ASP	X	91	42.825	62.674	27.862	0.00	0.00
ATOM	1403	HB2	ASP	X	91	41.858	63.133	27.654	0.00	0.00
ATOM	1404	HB3	ASP	X	91	43.578	63.452	27.736	0.00	0.00
ATOM	1405	CG	ASP	X	91	43.242	61.644	26.776	0.00	0.00
ATOM	1406	OD1	ASP	X	91	44.362	61.104	26.896	0.00	0.00
ATOM	1407	OD2	ASP	X	91	42.360	61.397	25.931	0.00	0.00
ATOM	1408	C	ASP	X	91	42.140	60.715	29.400	0.00	0.00
ATOM	1409	O	ASP	X	91	41.021	60.451	29.031	0.00	0.00
ATOM	1410	N	CYX	X	92	42.830	59.777	30.053	0.00	0.00
ATOM	1411	H	CYX	X	92	43.614	60.101	30.602	0.00	0.00
ATOM	1412	CA	CYX	X	92	42.728	58.298	29.983	0.00	0.00
ATOM	1413	HA	CYX	X	92	43.027	57.916	29.008	0.00	0.00
ATOM	1414	CB	CYX	X	92	43.830	57.871	30.958	0.00	0.00
ATOM	1415	HB2	CYX	X	92	44.022	56.831	30.692	0.00	0.00
ATOM	1416	HB3	CYX	X	92	44.754	58.386	30.697	0.00	0.00
ATOM	1417	SG	CYX	X	92	43.509	58.204	32.764	0.00	0.00
ATOM	1418	C	CYX	X	92	41.421	57.569	30.254	0.00	0.00
ATOM	1419	O	CYX	X	92	41.452	56.313	30.143	0.00	0.00
ATOM	1420	N	LEU	X	93	40.320	58.144	30.753	0.00	0.00
ATOM	1421	H	LEU	X	93	40.332	59.139	30.929	0.00	0.00
ATOM	1422	CA	LEU	X	93	39.169	57.374	31.110	0.00	0.00
ATOM	1423	HA	LEU	X	93	39.434	56.513	31.724	0.00	0.00
ATOM	1424	CB	LEU	X	93	38.340	58.318	32.082	0.00	0.00
ATOM	1425	HB2	LEU	X	93	38.108	59.239	31.547	0.00	0.00
ATOM	1426	HB3	LEU	X	93	37.448	57.729	32.298	0.00	0.00
ATOM	1427	CG	LEU	X	93	38.999	58.608	33.438	0.00	0.00
ATOM	1428	HG	LEU	X	93	39.783	59.326	33.197	0.00	0.00
ATOM	1429	CD1	LEU	X	93	37.949	59.313	34.408	0.00	0.00
ATOM	1430	HD11	LEU	X	93	37.189	58.554	34.592	0.00	0.00
ATOM	1431	HD12	LEU	X	93	37.610	60.202	33.875	0.00	0.00
ATOM	1432	HD13	LEU	X	93	38.400	59.574	35.366	0.00	0.00
ATOM	1433	CD2	LEU	X	93	39.705	57.403	34.142	0.00	0.00
ATOM	1434	HD21	LEU	X	93	39.073	56.523	34.017	0.00	0.00
ATOM	1435	HD22	LEU	X	93	40.663	57.177	33.675	0.00	0.00
ATOM	1436	HD23	LEU	X	93	39.940	57.603	35.188	0.00	0.00
ATOM	1437	C	LEU	X	93	38.439	56.894	29.814	0.00	0.00
ATOM	1438	O	LEU	X	93	37.680	57.653	29.178	0.00	0.00
ATOM	1439	N	TYR	X	94	38.652	55.597	29.398	0.00	0.00
ATOM	1440	H	TYR	X	94	39.357	55.080	29.904	0.00	0.00
ATOM	1441	CA	TYR	X	94	38.015	54.967	28.211	0.00	0.00
ATOM	1442	HA	TYR	X	94	37.249	55.613	27.783	0.00	0.00
ATOM	1443	CB	TYR	X	94	39.037	54.861	27.069	0.00	0.00
ATOM	1444	HB2	TYR	X	94	39.897	54.318	27.460	0.00	0.00
ATOM	1445	HB3	TYR	X	94	38.639	54.173	26.324	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.402	56.240	26.550	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.544	56.883	25.643	0.00	0.00
ATOM	1448	HD1	TYR	X	94	37.634	56.417	25.295	0.00	0.00
ATOM	1449	CE1	TYR	X	94	38.883	58.094	25.053	0.00	0.00
ATOM	1450	HE1	TYR	X	94	38.339	58.544	24.236	0.00	0.00
ATOM	1451	CZ	TYR	X	94	40.141	58.640	25.276	0.00	0.00
ATOM	1452	OH	TYR	X	94	40.564	59.662	24.554	0.00	0.00
ATOM	1453	HH	TYR	X	94	41.347	60.125	24.862	0.00	0.00
ATOM	1454	CE2	TYR	X	94	40.919	58.086	26.326	0.00	0.00
ATOM	1455	HE2	TYR	X	94	41.797	58.630	26.642	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.595	56.833	26.904	0.00	0.00
ATOM	1457	HD2	TYR	X	94	41.344	56.352	27.516	0.00	0.00
ATOM	1458	C	TYR	X	94	37.373	53.652	28.628	0.00	0.00
ATOM	1459	O	TYR	X	94	37.919	52.949	29.409	0.00	0.00
ATOM	1460	N	LEU	X	95	36.225	53.381	28.114	0.00	0.00
ATOM	1461	H	LEU	X	95	35.734	54.113	27.621	0.00	0.00
ATOM	1462	CA	LEU	X	95	35.534	52.083	28.118	0.00	0.00
ATOM	1463	HA	LEU	X	95	35.972	51.502	28.930	0.00	0.00
ATOM	1464	CB	LEU	X	95	34.066	52.500	28.622	0.00	0.00
ATOM	1465	HB2	LEU	X	95	34.149	52.982	29.596	0.00	0.00

ATOM	1466	HB3	LEU	X	95	33.621	53.122	27.845	0.00	0.00
ATOM	1467	CG	LEU	X	95	33.229	51.252	28.883	0.00	0.00
ATOM	1468	HG	LEU	X	95	33.927	50.453	29.135	0.00	0.00
ATOM	1469	CD1	LEU	X	95	32.231	51.531	30.067	0.00	0.00
ATOM	1470	HD11	LEU	X	95	31.452	52.196	29.694	0.00	0.00
ATOM	1471	HD12	LEU	X	95	32.798	51.949	30.899	0.00	0.00
ATOM	1472	HD13	LEU	X	95	31.758	50.610	30.407	0.00	0.00
ATOM	1473	CD2	LEU	X	95	32.439	50.834	27.657	0.00	0.00
ATOM	1474	HD21	LEU	X	95	31.638	51.545	27.453	0.00	0.00
ATOM	1475	HD22	LEU	X	95	33.127	50.756	26.815	0.00	0.00
ATOM	1476	HD23	LEU	X	95	32.124	49.841	27.976	0.00	0.00
ATOM	1477	C	LEU	X	95	35.674	51.282	26.770	0.00	0.00
ATOM	1478	O	LEU	X	95	35.916	51.926	25.727	0.00	0.00
ATOM	1479	N	ASN	X	96	35.478	49.935	26.809	0.00	0.00
ATOM	1480	H	ASN	X	96	35.632	49.540	27.726	0.00	0.00
ATOM	1481	CA	ASN	X	96	35.679	48.959	25.683	0.00	0.00
ATOM	1482	HA	ASN	X	96	35.655	49.427	24.699	0.00	0.00
ATOM	1483	CB	ASN	X	96	37.087	48.360	25.927	0.00	0.00
ATOM	1484	HB2	ASN	X	96	37.043	47.717	26.806	0.00	0.00
ATOM	1485	HB3	ASN	X	96	37.343	47.697	25.101	0.00	0.00
ATOM	1486	CG	ASN	X	96	38.180	49.419	26.081	0.00	0.00
ATOM	1487	OD1	ASN	X	96	38.575	50.110	25.184	0.00	0.00
ATOM	1488	ND2	ASN	X	96	38.642	49.695	27.273	0.00	0.00
ATOM	1489	HD21	ASN	X	96	39.163	50.547	27.426	0.00	0.00
ATOM	1490	HD22	ASN	X	96	38.299	49.138	28.042	0.00	0.00
ATOM	1491	C	ASN	X	96	34.727	47.744	25.793	0.00	0.00
ATOM	1492	O	ASN	X	96	34.523	47.273	26.923	0.00	0.00
ATOM	1493	N	VAL	X	97	34.154	47.343	24.676	0.00	0.00
ATOM	1494	H	VAL	X	97	34.418	47.882	23.865	0.00	0.00
ATOM	1495	CA	VAL	X	97	33.200	46.213	24.647	0.00	0.00
ATOM	1496	HA	VAL	X	97	33.381	45.712	25.598	0.00	0.00
ATOM	1497	CB	VAL	X	97	31.706	46.741	24.541	0.00	0.00
ATOM	1498	HB	VAL	X	97	31.445	47.049	23.529	0.00	0.00
ATOM	1499	CG1	VAL	X	97	30.705	45.661	25.063	0.00	0.00
ATOM	1500	HG11	VAL	X	97	31.163	45.254	25.964	0.00	0.00
ATOM	1501	HG12	VAL	X	97	29.709	46.080	25.205	0.00	0.00
ATOM	1502	HG13	VAL	X	97	30.499	44.924	24.287	0.00	0.00
ATOM	1503	CG2	VAL	X	97	31.283	47.963	25.410	0.00	0.00
ATOM	1504	HG21	VAL	X	97	31.207	47.746	26.476	0.00	0.00
ATOM	1505	HG22	VAL	X	97	30.298	48.298	25.085	0.00	0.00
ATOM	1506	HG23	VAL	X	97	32.024	48.738	25.212	0.00	0.00
ATOM	1507	C	VAL	X	97	33.487	45.322	23.461	0.00	0.00
ATOM	1508	O	VAL	X	97	33.755	45.674	22.283	0.00	0.00
ATOM	1509	N	TRP	X	98	33.597	44.043	23.776	0.00	0.00
ATOM	1510	H	TRP	X	98	33.468	43.797	24.748	0.00	0.00
ATOM	1511	CA	TRP	X	98	33.700	42.936	22.812	0.00	0.00
ATOM	1512	HA	TRP	X	98	33.999	43.195	21.796	0.00	0.00
ATOM	1513	CB	TRP	X	98	34.734	41.951	23.278	0.00	0.00
ATOM	1514	HB2	TRP	X	98	34.474	41.689	24.303	0.00	0.00
ATOM	1515	HB3	TRP	X	98	34.757	41.093	22.606	0.00	0.00
ATOM	1516	CG	TRP	X	98	36.142	42.412	23.305	0.00	0.00
ATOM	1517	CD1	TRP	X	98	37.072	42.056	22.345	0.00	0.00
ATOM	1518	HD1	TRP	X	98	36.850	41.330	21.577	0.00	0.00
ATOM	1519	NE1	TRP	X	98	38.255	42.655	22.625	0.00	0.00
ATOM	1520	HE1	TRP	X	98	39.098	42.456	22.105	0.00	0.00
ATOM	1521	CE2	TRP	X	98	38.189	43.455	23.778	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	39.156	44.185	24.456	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	40.177	44.224	24.107	0.00	0.00
ATOM	1524	CH2	TRP	X	98	38.803	44.846	25.701	0.00	0.00
ATOM	1525	HH2	TRP	X	98	39.596	45.379	26.204	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	37.526	44.713	26.126	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	37.162	45.219	27.008	0.00	0.00
ATOM	1528	CE3	TRP	X	98	36.521	43.978	25.377	0.00	0.00
ATOM	1529	HE3	TRP	X	98	35.509	43.955	25.754	0.00	0.00
ATOM	1530	CD2	TRP	X	98	36.857	43.289	24.192	0.00	0.00
ATOM	1531	C	TRP	X	98	32.331	42.222	22.683	0.00	0.00
ATOM	1532	O	TRP	X	98	31.756	41.889	23.794	0.00	0.00

ATOM	1533	N	THR	X	99	31.700	42.051	21.479	0.00	0.00
ATOM	1534	H	THR	X	99	32.045	42.462	20.623	0.00	0.00
ATOM	1535	CA	THR	X	99	30.392	41.531	21.184	0.00	0.00
ATOM	1536	HA	THR	X	99	30.125	40.841	21.984	0.00	0.00
ATOM	1537	CB	THR	X	99	29.268	42.645	21.281	0.00	0.00
ATOM	1538	HB	THR	X	99	29.270	43.060	22.289	0.00	0.00
ATOM	1539	CG2	THR	X	99	29.578	43.798	20.359	0.00	0.00
ATOM	1540	HG21	THR	X	99	28.815	44.556	20.541	0.00	0.00
ATOM	1541	HG22	THR	X	99	29.505	43.695	19.276	0.00	0.00
ATOM	1542	HG23	THR	X	99	30.560	44.234	20.542	0.00	0.00
ATOM	1543	OG1	THR	X	99	27.986	42.064	20.953	0.00	0.00
ATOM	1544	HG1	THR	X	99	27.324	42.726	21.165	0.00	0.00
ATOM	1545	C	THR	X	99	30.374	40.737	19.848	0.00	0.00
ATOM	1546	O	THR	X	99	30.977	41.281	18.864	0.00	0.00
ATOM	1547	N	PRO	X	100	29.610	39.616	19.688	0.00	0.00
ATOM	1548	CD	PRO	X	100	29.032	38.810	20.782	0.00	0.00
ATOM	1549	HD2	PRO	X	100	28.395	39.474	21.366	0.00	0.00
ATOM	1550	HD3	PRO	X	100	29.797	38.383	21.431	0.00	0.00
ATOM	1551	CG	PRO	X	100	28.129	37.710	20.149	0.00	0.00
ATOM	1552	HG2	PRO	X	100	27.160	38.190	20.013	0.00	0.00
ATOM	1553	HG3	PRO	X	100	28.110	36.771	20.702	0.00	0.00
ATOM	1554	CB	PRO	X	100	28.834	37.405	18.861	0.00	0.00
ATOM	1555	HB2	PRO	X	100	28.098	37.018	18.157	0.00	0.00
ATOM	1556	HB3	PRO	X	100	29.575	36.641	19.098	0.00	0.00
ATOM	1557	CA	PRO	X	100	29.501	38.756	18.439	0.00	0.00
ATOM	1558	HA	PRO	X	100	30.550	38.627	18.173	0.00	0.00
ATOM	1559	C	PRO	X	100	28.838	39.395	17.212	0.00	0.00
ATOM	1560	O	PRO	X	100	28.134	40.389	17.384	0.00	0.00
ATOM	1561	N	TYR	X	101	29.219	38.917	15.971	0.00	0.00
ATOM	1562	H	TYR	X	101	29.783	38.082	16.040	0.00	0.00
ATOM	1563	CA	TYR	X	101	28.848	39.570	14.693	0.00	0.00
ATOM	1564	HA	TYR	X	101	28.453	40.570	14.872	0.00	0.00
ATOM	1565	CB	TYR	X	101	30.180	39.714	14.028	0.00	0.00
ATOM	1566	HB2	TYR	X	101	30.937	40.042	14.740	0.00	0.00
ATOM	1567	HB3	TYR	X	101	30.335	38.720	13.607	0.00	0.00
ATOM	1568	CG	TYR	X	101	30.090	40.684	12.911	0.00	0.00
ATOM	1569	CD1	TYR	X	101	30.005	40.160	11.620	0.00	0.00
ATOM	1570	HD1	TYR	X	101	30.159	39.117	11.385	0.00	0.00
ATOM	1571	CE1	TYR	X	101	29.763	40.975	10.514	0.00	0.00
ATOM	1572	HE1	TYR	X	101	29.747	40.479	9.554	0.00	0.00
ATOM	1573	CZ	TYR	X	101	29.609	42.393	10.720	0.00	0.00
ATOM	1574	OH	TYR	X	101	29.260	43.123	9.658	0.00	0.00
ATOM	1575	HH	TYR	X	101	28.927	42.568	8.949	0.00	0.00
ATOM	1576	CE2	TYR	X	101	29.620	42.912	12.046	0.00	0.00
ATOM	1577	HE2	TYR	X	101	29.450	43.968	12.195	0.00	0.00
ATOM	1578	CD2	TYR	X	101	29.854	42.019	13.123	0.00	0.00
ATOM	1579	HD2	TYR	X	101	29.914	42.353	14.148	0.00	0.00
ATOM	1580	C	TYR	X	101	27.836	38.806	13.845	0.00	0.00
ATOM	1581	O	TYR	X	101	28.166	37.663	13.576	0.00	0.00
ATOM	1582	N	PRO	X	102	26.729	39.364	13.391	0.00	0.00
ATOM	1583	CD	PRO	X	102	25.968	38.792	12.296	0.00	0.00
ATOM	1584	HD2	PRO	X	102	25.884	37.706	12.302	0.00	0.00
ATOM	1585	HD3	PRO	X	102	26.416	39.037	11.333	0.00	0.00
ATOM	1586	CG	PRO	X	102	24.594	39.478	12.351	0.00	0.00
ATOM	1587	HG2	PRO	X	102	23.887	38.928	12.972	0.00	0.00
ATOM	1588	HG3	PRO	X	102	24.067	39.587	11.403	0.00	0.00
ATOM	1589	CB	PRO	X	102	25.041	40.815	12.939	0.00	0.00
ATOM	1590	HB2	PRO	X	102	24.233	41.282	13.503	0.00	0.00
ATOM	1591	HB3	PRO	X	102	25.298	41.356	12.028	0.00	0.00
ATOM	1592	CA	PRO	X	102	26.142	40.635	13.891	0.00	0.00
ATOM	1593	HA	PRO	X	102	26.849	41.460	13.806	0.00	0.00
ATOM	1594	C	PRO	X	102	25.556	40.415	15.370	0.00	0.00
ATOM	1595	O	PRO	X	102	25.318	39.314	15.875	0.00	0.00
ATOM	1596	N	ARG	X	103	25.275	41.539	16.074	0.00	0.00
ATOM	1597	H	ARG	X	103	25.600	42.405	15.669	0.00	0.00
ATOM	1598	CA	ARG	X	103	24.821	41.703	17.449	0.00	0.00
ATOM	1599	HA	ARG	X	103	25.741	41.595	18.024	0.00	0.00

ATOM	1600	CB	ARG	X	103	24.168	43.045	17.666	0.00	0.00
ATOM	1601	HB2	ARG	X	103	23.796	43.347	16.687	0.00	0.00
ATOM	1602	HB3	ARG	X	103	23.403	42.906	18.431	0.00	0.00
ATOM	1603	CG	ARG	X	103	25.070	44.175	18.242	0.00	0.00
ATOM	1604	HG2	ARG	X	103	25.448	43.878	19.220	0.00	0.00
ATOM	1605	HG3	ARG	X	103	25.838	44.408	17.504	0.00	0.00
ATOM	1606	CD	ARG	X	103	24.259	45.451	18.515	0.00	0.00
ATOM	1607	HD2	ARG	X	103	23.363	45.250	19.103	0.00	0.00
ATOM	1608	HD3	ARG	X	103	24.930	46.163	18.996	0.00	0.00
ATOM	1609	NE	ARG	X	103	23.836	46.009	17.255	0.00	0.00
ATOM	1610	HE	ARG	X	103	24.223	45.647	16.396	0.00	0.00
ATOM	1611	CZ	ARG	X	103	22.866	46.843	17.143	0.00	0.00
ATOM	1612	NH1	ARG	X	103	22.090	47.153	18.133	0.00	0.00
ATOM	1613	HH11	ARG	X	103	22.448	46.962	19.058	0.00	0.00
ATOM	1614	HH12	ARG	X	103	21.358	47.847	18.087	0.00	0.00
ATOM	1615	NH2	ARG	X	103	22.534	47.478	16.021	0.00	0.00
ATOM	1616	HH21	ARG	X	103	23.239	47.632	15.315	0.00	0.00
ATOM	1617	HH22	ARG	X	103	21.770	48.138	16.013	0.00	0.00
ATOM	1618	C	ARG	X	103	23.895	40.595	17.843	0.00	0.00
ATOM	1619	O	ARG	X	103	22.977	40.393	17.031	0.00	0.00
ATOM	1620	N	PRO	X	104	24.107	39.932	19.010	0.00	0.00
ATOM	1621	CD	PRO	X	104	24.951	40.250	20.174	0.00	0.00
ATOM	1622	HD2	PRO	X	104	24.778	41.262	20.542	0.00	0.00
ATOM	1623	HD3	PRO	X	104	25.966	40.051	19.832	0.00	0.00
ATOM	1624	CG	PRO	X	104	24.575	39.257	21.270	0.00	0.00
ATOM	1625	HG2	PRO	X	104	23.761	39.724	21.825	0.00	0.00
ATOM	1626	HG3	PRO	X	104	25.354	38.882	21.934	0.00	0.00
ATOM	1627	CB	PRO	X	104	23.946	38.084	20.540	0.00	0.00
ATOM	1628	HB2	PRO	X	104	23.179	37.618	21.160	0.00	0.00
ATOM	1629	HB3	PRO	X	104	24.764	37.474	20.157	0.00	0.00
ATOM	1630	CA	PRO	X	104	23.291	38.739	19.310	0.00	0.00
ATOM	1631	HA	PRO	X	104	23.402	37.980	18.535	0.00	0.00
ATOM	1632	C	PRO	X	104	21.805	39.036	19.575	0.00	0.00
ATOM	1633	O	PRO	X	104	21.470	39.910	20.387	0.00	0.00
ATOM	1634	N	THR	X	105	20.906	38.251	18.988	0.00	0.00
ATOM	1635	H	THR	X	105	21.207	37.774	18.151	0.00	0.00
ATOM	1636	CA	THR	X	105	19.458	38.284	19.304	0.00	0.00
ATOM	1637	HA	THR	X	105	19.253	39.328	19.540	0.00	0.00
ATOM	1638	CB	THR	X	105	18.504	37.999	18.072	0.00	0.00
ATOM	1639	HB	THR	X	105	17.499	37.914	18.484	0.00	0.00
ATOM	1640	CG2	THR	X	105	18.429	39.128	17.058	0.00	0.00
ATOM	1641	HG21	THR	X	105	17.722	38.689	16.353	0.00	0.00
ATOM	1642	HG22	THR	X	105	19.392	39.329	16.589	0.00	0.00
ATOM	1643	HG23	THR	X	105	18.110	40.066	17.513	0.00	0.00
ATOM	1644	OG1	THR	X	105	18.979	36.953	17.306	0.00	0.00
ATOM	1645	HG1	THR	X	105	18.534	36.169	17.636	0.00	0.00
ATOM	1646	C	THR	X	105	19.103	37.318	20.495	0.00	0.00
ATOM	1647	O	THR	X	105	18.156	37.572	21.231	0.00	0.00
ATOM	1648	N	SER	X	106	19.798	36.149	20.538	0.00	0.00
ATOM	1649	H	SER	X	106	20.565	36.049	19.888	0.00	0.00
ATOM	1650	CA	SER	X	106	19.668	35.211	21.753	0.00	0.00
ATOM	1651	HA	SER	X	106	18.618	35.041	21.991	0.00	0.00
ATOM	1652	CB	SER	X	106	20.356	33.974	21.302	0.00	0.00
ATOM	1653	HB2	SER	X	106	21.362	34.144	20.919	0.00	0.00
ATOM	1654	HB3	SER	X	106	20.453	33.296	22.149	0.00	0.00
ATOM	1655	OG	SER	X	106	19.602	33.368	20.277	0.00	0.00
ATOM	1656	HG	SER	X	106	19.844	32.448	20.153	0.00	0.00
ATOM	1657	C	SER	X	106	20.329	35.783	23.046	0.00	0.00
ATOM	1658	O	SER	X	106	21.421	36.340	22.989	0.00	0.00
ATOM	1659	N	PRO	X	107	19.569	35.909	24.179	0.00	0.00
ATOM	1660	CD	PRO	X	107	18.182	35.494	24.293	0.00	0.00
ATOM	1661	HD2	PRO	X	107	18.060	34.420	24.155	0.00	0.00
ATOM	1662	HD3	PRO	X	107	17.577	36.091	23.610	0.00	0.00
ATOM	1663	CG	PRO	X	107	17.851	35.732	25.733	0.00	0.00
ATOM	1664	HG2	PRO	X	107	17.988	34.833	26.334	0.00	0.00
ATOM	1665	HG3	PRO	X	107	16.781	35.932	25.793	0.00	0.00
ATOM	1666	CB	PRO	X	107	18.803	36.840	26.244	0.00	0.00

ATOM	1667	HB2	PRO	X	107	19.120	36.640	27.267	0.00	0.00
ATOM	1668	HB3	PRO	X	107	18.428	37.858	26.139	0.00	0.00
ATOM	1669	CA	PRO	X	107	19.986	36.652	25.276	0.00	0.00
ATOM	1670	HA	PRO	X	107	20.291	37.631	24.908	0.00	0.00
ATOM	1671	C	PRO	X	107	21.122	35.948	26.067	0.00	0.00
ATOM	1672	O	PRO	X	107	21.247	34.710	26.037	0.00	0.00
ATOM	1673	N	THR	X	108	21.900	36.699	26.795	0.00	0.00
ATOM	1674	H	THR	X	108	21.725	37.686	26.919	0.00	0.00
ATOM	1675	CA	THR	X	108	23.264	36.321	27.208	0.00	0.00
ATOM	1676	HA	THR	X	108	23.399	35.343	27.669	0.00	0.00
ATOM	1677	CB	THR	X	108	24.212	36.164	25.979	0.00	0.00
ATOM	1678	HB	THR	X	108	23.812	35.457	25.252	0.00	0.00
ATOM	1679	CG2	THR	X	108	24.396	37.467	25.273	0.00	0.00
ATOM	1680	HG21	THR	X	108	24.727	38.239	25.967	0.00	0.00
ATOM	1681	HG22	THR	X	108	23.436	37.692	24.808	0.00	0.00
ATOM	1682	HG23	THR	X	108	25.084	37.384	24.432	0.00	0.00
ATOM	1683	OG1	THR	X	108	25.421	35.750	26.417	0.00	0.00
ATOM	1684	HG1	THR	X	108	26.101	35.958	25.772	0.00	0.00
ATOM	1685	C	THR	X	108	23.746	37.410	28.247	0.00	0.00
ATOM	1686	O	THR	X	108	23.285	38.595	28.199	0.00	0.00
ATOM	1687	N	PRO	X	109	24.522	36.965	29.243	0.00	0.00
ATOM	1688	CD	PRO	X	109	25.056	35.649	29.487	0.00	0.00
ATOM	1689	HD2	PRO	X	109	25.725	35.169	28.773	0.00	0.00
ATOM	1690	HD3	PRO	X	109	24.176	35.007	29.534	0.00	0.00
ATOM	1691	CG	PRO	X	109	25.774	35.717	30.873	0.00	0.00
ATOM	1692	HG2	PRO	X	109	26.848	35.749	30.684	0.00	0.00
ATOM	1693	HG3	PRO	X	109	25.392	34.886	31.466	0.00	0.00
ATOM	1694	CB	PRO	X	109	25.409	37.022	31.459	0.00	0.00
ATOM	1695	HB2	PRO	X	109	26.249	37.518	31.946	0.00	0.00
ATOM	1696	HB3	PRO	X	109	24.569	36.754	32.100	0.00	0.00
ATOM	1697	CA	PRO	X	109	25.013	37.894	30.311	0.00	0.00
ATOM	1698	HA	PRO	X	109	24.127	38.474	30.569	0.00	0.00
ATOM	1699	C	PRO	X	109	26.090	38.851	29.759	0.00	0.00
ATOM	1700	O	PRO	X	109	26.743	38.580	28.747	0.00	0.00
ATOM	1701	N	VAL	X	110	26.243	39.913	30.569	0.00	0.00
ATOM	1702	H	VAL	X	110	25.740	39.857	31.443	0.00	0.00
ATOM	1703	CA	VAL	X	110	27.316	40.918	30.474	0.00	0.00
ATOM	1704	HA	VAL	X	110	27.723	40.784	29.472	0.00	0.00
ATOM	1705	CB	VAL	X	110	26.899	42.418	30.508	0.00	0.00
ATOM	1706	HB	VAL	X	110	26.314	42.578	31.414	0.00	0.00
ATOM	1707	CG1	VAL	X	110	28.093	43.347	30.696	0.00	0.00
ATOM	1708	HG11	VAL	X	110	28.492	43.560	31.688	0.00	0.00
ATOM	1709	HG12	VAL	X	110	28.849	43.247	29.918	0.00	0.00
ATOM	1710	HG13	VAL	X	110	27.845	44.407	30.732	0.00	0.00
ATOM	1711	CG2	VAL	X	110	26.144	42.793	29.229	0.00	0.00
ATOM	1712	HG21	VAL	X	110	25.430	42.038	28.899	0.00	0.00
ATOM	1713	HG22	VAL	X	110	26.897	42.931	28.453	0.00	0.00
ATOM	1714	HG23	VAL	X	110	25.497	43.652	29.408	0.00	0.00
ATOM	1715	C	VAL	X	110	28.397	40.774	31.514	0.00	0.00
ATOM	1716	O	VAL	X	110	28.098	40.664	32.720	0.00	0.00
ATOM	1717	N	LEU	X	111	29.652	40.804	31.094	0.00	0.00
ATOM	1718	H	LEU	X	111	29.828	40.775	30.100	0.00	0.00
ATOM	1719	CA	LEU	X	111	30.734	40.685	32.029	0.00	0.00
ATOM	1720	HA	LEU	X	111	30.300	40.499	33.012	0.00	0.00
ATOM	1721	CB	LEU	X	111	31.606	39.489	31.685	0.00	0.00
ATOM	1722	HB2	LEU	X	111	31.617	39.413	30.597	0.00	0.00
ATOM	1723	HB3	LEU	X	111	32.592	39.654	32.120	0.00	0.00
ATOM	1724	CG	LEU	X	111	31.137	38.117	32.263	0.00	0.00
ATOM	1725	HG	LEU	X	111	30.856	38.211	33.312	0.00	0.00
ATOM	1726	CD1	LEU	X	111	29.904	37.495	31.435	0.00	0.00
ATOM	1727	HD11	LEU	X	111	29.571	36.582	31.928	0.00	0.00
ATOM	1728	HD12	LEU	X	111	30.247	37.264	30.426	0.00	0.00
ATOM	1729	HD13	LEU	X	111	29.079	38.200	31.331	0.00	0.00
ATOM	1730	CD2	LEU	X	111	32.394	37.298	32.062	0.00	0.00
ATOM	1731	HD21	LEU	X	111	32.771	37.360	31.041	0.00	0.00
ATOM	1732	HD22	LEU	X	111	33.134	37.540	32.825	0.00	0.00
ATOM	1733	HD23	LEU	X	111	32.094	36.300	32.381	0.00	0.00

ATOM	1734	C	LEU	X	111	31.595	41.992	31.958	0.00	0.00
ATOM	1735	O	LEU	X	111	32.161	42.273	30.894	0.00	0.00
ATOM	1736	N	VAL	X	112	31.683	42.653	33.080	0.00	0.00
ATOM	1737	H	VAL	X	112	31.354	42.260	33.950	0.00	0.00
ATOM	1738	CA	VAL	X	112	32.590	43.817	33.232	0.00	0.00
ATOM	1739	HA	VAL	X	112	32.762	44.268	32.255	0.00	0.00
ATOM	1740	CB	VAL	X	112	31.922	44.917	34.056	0.00	0.00
ATOM	1741	HB	VAL	X	112	31.872	44.627	35.106	0.00	0.00
ATOM	1742	CG1	VAL	X	112	32.773	46.159	34.132	0.00	0.00
ATOM	1743	HG11	VAL	X	112	33.720	45.922	34.617	0.00	0.00
ATOM	1744	HG12	VAL	X	112	32.887	46.625	33.154	0.00	0.00
ATOM	1745	HG13	VAL	X	112	32.389	46.840	34.891	0.00	0.00
ATOM	1746	CG2	VAL	X	112	30.546	45.181	33.447	0.00	0.00
ATOM	1747	HG21	VAL	X	112	30.081	46.073	33.866	0.00	0.00
ATOM	1748	HG22	VAL	X	112	29.894	44.312	33.539	0.00	0.00
ATOM	1749	HG23	VAL	X	112	30.626	45.451	32.394	0.00	0.00
ATOM	1750	C	VAL	X	112	33.911	43.425	33.884	0.00	0.00
ATOM	1751	O	VAL	X	112	33.743	42.831	34.943	0.00	0.00
ATOM	1752	N	TRP	X	113	35.098	43.719	33.283	0.00	0.00
ATOM	1753	H	TRP	X	113	35.073	44.292	32.452	0.00	0.00
ATOM	1754	CA	TRP	X	113	36.433	43.309	33.706	0.00	0.00
ATOM	1755	HA	TRP	X	113	36.422	42.512	34.450	0.00	0.00
ATOM	1756	CB	TRP	X	113	37.287	42.922	32.470	0.00	0.00
ATOM	1757	HB2	TRP	X	113	36.855	42.065	31.955	0.00	0.00
ATOM	1758	HB3	TRP	X	113	37.164	43.757	31.779	0.00	0.00
ATOM	1759	CG	TRP	X	113	38.740	42.583	32.851	0.00	0.00
ATOM	1760	CD1	TRP	X	113	39.791	43.401	32.677	0.00	0.00
ATOM	1761	HD1	TRP	X	113	39.700	44.369	32.206	0.00	0.00
ATOM	1762	NE1	TRP	X	113	40.934	42.838	33.228	0.00	0.00
ATOM	1763	HE1	TRP	X	113	41.868	43.203	33.104	0.00	0.00
ATOM	1764	CE2	TRP	X	113	40.522	41.686	33.896	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	41.231	40.730	34.580	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	42.308	40.796	34.625	0.00	0.00
ATOM	1767	CH2	TRP	X	113	40.663	39.542	35.028	0.00	0.00
ATOM	1768	HH2	TRP	X	113	41.308	38.910	35.621	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	39.271	39.397	34.921	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	38.724	38.515	35.220	0.00	0.00
ATOM	1771	CE3	TRP	X	113	38.515	40.331	34.190	0.00	0.00
ATOM	1772	HE3	TRP	X	113	37.448	40.217	34.067	0.00	0.00
ATOM	1773	CD2	TRP	X	113	39.147	41.426	33.613	0.00	0.00
ATOM	1774	C	TRP	X	113	37.106	44.457	34.443	0.00	0.00
ATOM	1775	O	TRP	X	113	37.035	45.612	33.994	0.00	0.00
ATOM	1776	N	ILE	X	114	37.963	44.203	35.399	0.00	0.00
ATOM	1777	H	ILE	X	114	37.925	43.248	35.725	0.00	0.00
ATOM	1778	CA	ILE	X	114	38.549	45.146	36.326	0.00	0.00
ATOM	1779	HA	ILE	X	114	38.758	46.106	35.854	0.00	0.00
ATOM	1780	CB	ILE	X	114	37.600	45.260	37.488	0.00	0.00
ATOM	1781	HB	ILE	X	114	37.531	44.267	37.933	0.00	0.00
ATOM	1782	CG2	ILE	X	114	38.217	46.320	38.434	0.00	0.00
ATOM	1783	HG21	ILE	X	114	37.814	46.314	39.447	0.00	0.00
ATOM	1784	HG22	ILE	X	114	38.194	47.255	37.875	0.00	0.00
ATOM	1785	HG23	ILE	X	114	39.216	45.972	38.698	0.00	0.00
ATOM	1786	CG1	ILE	X	114	36.137	45.558	37.135	0.00	0.00
ATOM	1787	HG12	ILE	X	114	36.101	46.250	36.293	0.00	0.00
ATOM	1788	HG13	ILE	X	114	35.696	44.619	36.800	0.00	0.00
ATOM	1789	CD1	ILE	X	114	35.143	46.076	38.250	0.00	0.00
ATOM	1790	HD11	ILE	X	114	35.444	45.633	39.199	0.00	0.00
ATOM	1791	HD12	ILE	X	114	34.189	45.699	37.882	0.00	0.00
ATOM	1792	HD13	ILE	X	114	35.173	47.159	38.370	0.00	0.00
ATOM	1793	C	ILE	X	114	39.890	44.515	36.633	0.00	0.00
ATOM	1794	O	ILE	X	114	40.069	43.331	36.956	0.00	0.00
ATOM	1795	N	TYR	X	115	40.950	45.245	36.298	0.00	0.00
ATOM	1796	H	TYR	X	115	40.938	46.248	36.178	0.00	0.00
ATOM	1797	CA	TYR	X	115	42.325	44.783	36.127	0.00	0.00
ATOM	1798	HA	TYR	X	115	42.380	43.729	35.854	0.00	0.00
ATOM	1799	CB	TYR	X	115	43.091	45.495	34.967	0.00	0.00
ATOM	1800	HB2	TYR	X	115	44.141	45.214	35.035	0.00	0.00

ATOM	1801	HB3	TYR	X	115	42.659	45.124	34.037	0.00	0.00
ATOM	1802	CG	TYR	X	115	43.089	47.013	34.937	0.00	0.00
ATOM	1803	CD1	TYR	X	115	43.748	47.787	35.885	0.00	0.00
ATOM	1804	HD1	TYR	X	115	44.448	47.309	36.554	0.00	0.00
ATOM	1805	CE1	TYR	X	115	43.827	49.208	35.715	0.00	0.00
ATOM	1806	HE1	TYR	X	115	44.373	49.873	36.368	0.00	0.00
ATOM	1807	CZ	TYR	X	115	43.143	49.890	34.636	0.00	0.00
ATOM	1808	OH	TYR	X	115	43.276	51.236	34.380	0.00	0.00
ATOM	1809	HH	TYR	X	115	43.886	51.526	35.063	0.00	0.00
ATOM	1810	CE2	TYR	X	115	42.490	48.996	33.697	0.00	0.00
ATOM	1811	HE2	TYR	X	115	42.104	49.383	32.765	0.00	0.00
ATOM	1812	CD2	TYR	X	115	42.333	47.618	33.936	0.00	0.00
ATOM	1813	HD2	TYR	X	115	41.791	47.027	33.212	0.00	0.00
ATOM	1814	C	TYR	X	115	43.109	44.962	37.466	0.00	0.00
ATOM	1815	O	TYR	X	115	42.974	45.886	38.181	0.00	0.00
ATOM	1816	N	GLY	X	116	44.039	44.001	37.597	0.00	0.00
ATOM	1817	H	GLY	X	116	44.019	43.330	36.842	0.00	0.00
ATOM	1818	CA	GLY	X	116	45.115	43.967	38.553	0.00	0.00
ATOM	1819	HA2	GLY	X	116	44.782	44.273	39.545	0.00	0.00
ATOM	1820	HA3	GLY	X	116	45.458	42.932	38.556	0.00	0.00
ATOM	1821	C	GLY	X	116	46.327	44.808	38.157	0.00	0.00
ATOM	1822	O	GLY	X	116	46.249	45.505	37.145	0.00	0.00
ATOM	1823	N	GLY	X	117	47.299	44.845	39.074	0.00	0.00
ATOM	1824	H	GLY	X	117	47.155	44.323	39.927	0.00	0.00
ATOM	1825	CA	GLY	X	117	48.489	45.730	38.900	0.00	0.00
ATOM	1826	HA2	GLY	X	117	49.346	45.106	38.646	0.00	0.00
ATOM	1827	HA3	GLY	X	117	48.323	46.450	38.098	0.00	0.00
ATOM	1828	C	GLY	X	117	48.799	46.450	40.202	0.00	0.00
ATOM	1829	O	GLY	X	117	49.361	47.562	40.131	0.00	0.00
ATOM	1830	N	GLY	X	118	48.327	45.949	41.385	0.00	0.00
ATOM	1831	H	GLY	X	118	47.826	45.077	41.297	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.676	46.464	42.729	0.00	0.00
ATOM	1833	HA2	GLY	X	118	48.475	45.656	43.433	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.761	46.551	42.774	0.00	0.00
ATOM	1835	C	GLY	X	118	47.952	47.758	43.151	0.00	0.00
ATOM	1836	O	GLY	X	118	48.310	48.250	44.213	0.00	0.00
ATOM	1837	N	PHE	X	119	47.043	48.209	42.361	0.00	0.00
ATOM	1838	H	PHE	X	119	46.749	47.618	41.597	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.473	49.575	42.395	0.00	0.00
ATOM	1840	HA	PHE	X	119	45.739	49.692	41.597	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.814	49.898	43.780	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.567	49.779	44.559	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.398	50.904	43.840	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.767	48.895	44.252	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.378	49.084	44.069	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.990	49.831	43.393	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.392	48.274	44.599	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.326	48.406	44.479	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.876	47.177	45.326	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.154	46.522	45.791	0.00	0.00
ATOM	1851	CE2	PHE	X	119	44.248	46.909	45.553	0.00	0.00
ATOM	1852	HE2	PHE	X	119	44.404	45.990	46.099	0.00	0.00
ATOM	1853	CD2	PHE	X	119	45.147	47.811	45.046	0.00	0.00
ATOM	1854	HD2	PHE	X	119	46.173	47.560	45.272	0.00	0.00
ATOM	1855	C	PHE	X	119	47.585	50.673	42.038	0.00	0.00
ATOM	1856	O	PHE	X	119	47.154	51.843	41.790	0.00	0.00
ATOM	1857	N	TYR	X	120	48.865	50.314	41.833	0.00	0.00
ATOM	1858	H	TYR	X	120	49.111	49.381	42.131	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.839	51.276	41.421	0.00	0.00
ATOM	1860	HA	TYR	X	120	49.434	52.287	41.459	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.999	51.303	42.355	0.00	0.00
ATOM	1862	HB2	TYR	X	120	51.430	52.294	42.214	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.651	51.156	43.378	0.00	0.00
ATOM	1864	CG	TYR	X	120	52.070	50.204	42.196	0.00	0.00
ATOM	1865	CD1	TYR	X	120	53.448	50.497	41.948	0.00	0.00
ATOM	1866	HD1	TYR	X	120	53.742	51.533	42.027	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.405	49.489	41.692	0.00	0.00

ATOM	1868	HE1	TYR	X	120	55.448	49.761	41.622	0.00	0.00
ATOM	1869	CZ	TYR	X	120	53.994	48.136	41.526	0.00	0.00
ATOM	1870	OH	TYR	X	120	54.885	47.139	41.350	0.00	0.00
ATOM	1871	HH	TYR	X	120	54.450	46.284	41.387	0.00	0.00
ATOM	1872	CE2	TYR	X	120	52.626	47.864	41.767	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.275	46.853	41.618	0.00	0.00
ATOM	1874	CD2	TYR	X	120	51.716	48.848	42.156	0.00	0.00
ATOM	1875	HD2	TYR	X	120	50.662	48.643	42.278	0.00	0.00
ATOM	1876	C	TYR	X	120	50.237	51.113	39.965	0.00	0.00
ATOM	1877	O	TYR	X	120	51.161	51.819	39.507	0.00	0.00
ATOM	1878	N	SER	X	121	49.486	50.347	39.165	0.00	0.00
ATOM	1879	H	SER	X	121	48.722	49.898	39.650	0.00	0.00
ATOM	1880	CA	SER	X	121	49.600	50.158	37.720	0.00	0.00
ATOM	1881	HA	SER	X	121	49.463	51.092	37.175	0.00	0.00
ATOM	1882	CB	SER	X	121	50.937	49.524	37.267	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.026	49.492	36.181	0.00	0.00
ATOM	1884	HB3	SER	X	121	51.758	50.110	37.680	0.00	0.00
ATOM	1885	OG	SER	X	121	50.988	48.192	37.858	0.00	0.00
ATOM	1886	HG	SER	X	121	50.636	48.273	38.747	0.00	0.00
ATOM	1887	C	SER	X	121	48.307	49.289	37.257	0.00	0.00
ATOM	1888	O	SER	X	121	47.402	49.012	38.111	0.00	0.00
ATOM	1889	N	GLY	X	122	48.243	48.988	35.946	0.00	0.00
ATOM	1890	H	GLY	X	122	49.049	49.168	35.365	0.00	0.00
ATOM	1891	CA	GLY	X	122	47.123	48.393	35.286	0.00	0.00
ATOM	1892	HA2	GLY	X	122	47.545	47.438	34.974	0.00	0.00
ATOM	1893	HA3	GLY	X	122	46.335	48.126	35.990	0.00	0.00
ATOM	1894	C	GLY	X	122	46.606	49.104	33.971	0.00	0.00
ATOM	1895	O	GLY	X	122	46.708	50.309	33.835	0.00	0.00
ATOM	1896	N	ALA	X	123	46.032	48.303	33.052	0.00	0.00
ATOM	1897	H	ALA	X	123	46.004	47.301	33.172	0.00	0.00
ATOM	1898	CA	ALA	X	123	45.439	48.851	31.786	0.00	0.00
ATOM	1899	HA	ALA	X	123	44.984	49.820	31.986	0.00	0.00
ATOM	1900	CB	ALA	X	123	46.565	49.186	30.780	0.00	0.00
ATOM	1901	HB1	ALA	X	123	45.999	49.715	30.014	0.00	0.00
ATOM	1902	HB2	ALA	X	123	46.914	48.306	30.239	0.00	0.00
ATOM	1903	HB3	ALA	X	123	47.467	49.640	31.189	0.00	0.00
ATOM	1904	C	ALA	X	123	44.363	48.012	31.100	0.00	0.00
ATOM	1905	O	ALA	X	123	44.501	46.800	31.115	0.00	0.00
ATOM	1906	N	SER	X	124	43.370	48.590	30.427	0.00	0.00
ATOM	1907	H	SER	X	124	43.314	49.593	30.323	0.00	0.00
ATOM	1908	CA	SER	X	124	42.308	47.810	29.699	0.00	0.00
ATOM	1909	HA	SER	X	124	42.007	46.870	30.159	0.00	0.00
ATOM	1910	CB	SER	X	124	41.010	48.595	29.557	0.00	0.00
ATOM	1911	HB2	SER	X	124	40.294	47.976	29.016	0.00	0.00
ATOM	1912	HB3	SER	X	124	40.619	48.770	30.559	0.00	0.00
ATOM	1913	OG	SER	X	124	41.200	49.849	28.853	0.00	0.00
ATOM	1914	HG	SER	X	124	41.689	50.440	29.431	0.00	0.00
ATOM	1915	C	SER	X	124	42.820	47.310	28.366	0.00	0.00
ATOM	1916	O	SER	X	124	42.250	46.409	27.791	0.00	0.00
ATOM	1917	N	SER	X	125	43.900	47.964	27.863	0.00	0.00
ATOM	1918	H	SER	X	125	44.304	48.745	28.360	0.00	0.00
ATOM	1919	CA	SER	X	125	44.520	47.794	26.570	0.00	0.00
ATOM	1920	HA	SER	X	125	43.598	47.697	25.998	0.00	0.00
ATOM	1921	CB	SER	X	125	45.226	49.166	26.288	0.00	0.00
ATOM	1922	HB2	SER	X	125	45.626	49.173	25.275	0.00	0.00
ATOM	1923	HB3	SER	X	125	44.411	49.881	26.407	0.00	0.00
ATOM	1924	OG	SER	X	125	46.251	49.448	27.197	0.00	0.00
ATOM	1925	HG	SER	X	125	46.998	48.926	26.895	0.00	0.00
ATOM	1926	C	SER	X	125	45.388	46.594	26.274	0.00	0.00
ATOM	1927	O	SER	X	125	45.738	46.485	25.076	0.00	0.00
ATOM	1928	N	LEU	X	126	45.635	45.710	27.284	0.00	0.00
ATOM	1929	H	LEU	X	126	45.069	45.784	28.117	0.00	0.00
ATOM	1930	CA	LEU	X	126	46.460	44.548	27.269	0.00	0.00
ATOM	1931	HA	LEU	X	126	47.277	44.835	26.606	0.00	0.00
ATOM	1932	CB	LEU	X	126	47.020	44.204	28.690	0.00	0.00
ATOM	1933	HB2	LEU	X	126	46.232	43.642	29.191	0.00	0.00
ATOM	1934	HB3	LEU	X	126	47.834	43.485	28.600	0.00	0.00

ATOM	1935	CG	LEU	X	126	47.531	45.365	29.556	0.00	0.00
ATOM	1936	HG	LEU	X	126	46.707	46.061	29.718	0.00	0.00
ATOM	1937	CD1	LEU	X	126	48.048	44.844	30.894	0.00	0.00
ATOM	1938	HD11	LEU	X	126	48.233	45.615	31.643	0.00	0.00
ATOM	1939	HD12	LEU	X	126	48.856	44.192	30.564	0.00	0.00
ATOM	1940	HD13	LEU	X	126	47.284	44.177	31.293	0.00	0.00
ATOM	1941	CD2	LEU	X	126	48.678	46.164	29.078	0.00	0.00
ATOM	1942	HD21	LEU	X	126	48.763	46.966	29.812	0.00	0.00
ATOM	1943	HD22	LEU	X	126	49.562	45.526	29.080	0.00	0.00
ATOM	1944	HD23	LEU	X	126	48.515	46.578	28.083	0.00	0.00
ATOM	1945	C	LEU	X	126	45.803	43.264	26.736	0.00	0.00
ATOM	1946	O	LEU	X	126	44.689	42.818	27.064	0.00	0.00
ATOM	1947	N	ASP	X	127	46.610	42.569	25.956	0.00	0.00
ATOM	1948	H	ASP	X	127	47.479	43.008	25.687	0.00	0.00
ATOM	1949	CA	ASP	X	127	46.261	41.338	25.245	0.00	0.00
ATOM	1950	HA	ASP	X	127	45.289	41.597	24.826	0.00	0.00
ATOM	1951	CB	ASP	X	127	47.158	41.020	24.077	0.00	0.00
ATOM	1952	HB2	ASP	X	127	46.834	40.113	23.567	0.00	0.00
ATOM	1953	HB3	ASP	X	127	47.162	41.761	23.278	0.00	0.00
ATOM	1954	CG	ASP	X	127	48.568	40.820	24.478	0.00	0.00
ATOM	1955	OD1	ASP	X	127	48.980	39.631	24.605	0.00	0.00
ATOM	1956	OD2	ASP	X	127	49.247	41.863	24.448	0.00	0.00
ATOM	1957	C	ASP	X	127	46.020	40.038	25.955	0.00	0.00
ATOM	1958	O	ASP	X	127	45.113	39.228	25.626	0.00	0.00
ATOM	1959	N	VAL	X	128	46.646	39.953	27.112	0.00	0.00
ATOM	1960	H	VAL	X	128	47.412	40.572	27.335	0.00	0.00
ATOM	1961	CA	VAL	X	128	46.162	38.935	28.099	0.00	0.00
ATOM	1962	HA	VAL	X	128	46.215	38.008	27.529	0.00	0.00
ATOM	1963	CB	VAL	X	128	47.223	38.818	29.241	0.00	0.00
ATOM	1964	HB	VAL	X	128	48.256	38.733	28.903	0.00	0.00
ATOM	1965	CG1	VAL	X	128	47.406	40.062	30.084	0.00	0.00
ATOM	1966	HG11	VAL	X	128	46.596	40.225	30.794	0.00	0.00
ATOM	1967	HG12	VAL	X	128	48.302	39.923	30.689	0.00	0.00
ATOM	1968	HG13	VAL	X	128	47.483	40.977	29.497	0.00	0.00
ATOM	1969	CG2	VAL	X	128	46.993	37.492	30.026	0.00	0.00
ATOM	1970	HG21	VAL	X	128	46.105	37.494	30.659	0.00	0.00
ATOM	1971	HG22	VAL	X	128	47.819	37.295	30.708	0.00	0.00
ATOM	1972	HG23	VAL	X	128	46.945	36.625	29.367	0.00	0.00
ATOM	1973	C	VAL	X	128	44.706	39.023	28.626	0.00	0.00
ATOM	1974	O	VAL	X	128	44.101	37.972	28.990	0.00	0.00
ATOM	1975	N	TYR	X	129	44.108	40.234	28.650	0.00	0.00
ATOM	1976	H	TYR	X	129	44.589	41.059	28.322	0.00	0.00
ATOM	1977	CA	TYR	X	129	42.717	40.580	28.951	0.00	0.00
ATOM	1978	HA	TYR	X	129	42.448	39.734	29.585	0.00	0.00
ATOM	1979	CB	TYR	X	129	42.679	41.926	29.738	0.00	0.00
ATOM	1980	HB2	TYR	X	129	42.851	42.750	29.046	0.00	0.00
ATOM	1981	HB3	TYR	X	129	41.621	41.929	30.000	0.00	0.00
ATOM	1982	CG	TYR	X	129	43.502	42.130	30.976	0.00	0.00
ATOM	1983	CD1	TYR	X	129	43.677	41.054	31.892	0.00	0.00
ATOM	1984	HD1	TYR	X	129	43.286	40.068	31.685	0.00	0.00
ATOM	1985	CE1	TYR	X	129	44.310	41.289	33.082	0.00	0.00
ATOM	1986	HE1	TYR	X	129	44.483	40.468	33.762	0.00	0.00
ATOM	1987	CZ	TYR	X	129	44.839	42.587	33.440	0.00	0.00
ATOM	1988	OH	TYR	X	129	45.302	42.870	34.724	0.00	0.00
ATOM	1989	HH	TYR	X	129	45.215	42.160	35.364	0.00	0.00
ATOM	1990	CE2	TYR	X	129	44.718	43.600	32.484	0.00	0.00
ATOM	1991	HE2	TYR	X	129	45.123	44.577	32.701	0.00	0.00
ATOM	1992	CD2	TYR	X	129	44.006	43.362	31.249	0.00	0.00
ATOM	1993	HD2	TYR	X	129	43.784	44.249	30.674	0.00	0.00
ATOM	1994	C	TYR	X	129	41.747	40.732	27.736	0.00	0.00
ATOM	1995	O	TYR	X	129	40.542	41.057	27.862	0.00	0.00
ATOM	1996	N	ASP	X	130	42.242	40.707	26.498	0.00	0.00
ATOM	1997	H	ASP	X	130	43.132	40.276	26.290	0.00	0.00
ATOM	1998	CA	ASP	X	130	41.404	40.920	25.271	0.00	0.00
ATOM	1999	HA	ASP	X	130	40.807	41.832	25.309	0.00	0.00
ATOM	2000	CB	ASP	X	130	42.261	41.070	24.056	0.00	0.00
ATOM	2001	HB2	ASP	X	130	42.860	41.980	24.077	0.00	0.00

ATOM	2002	HB3	ASP	X	130	42.987	40.258	24.098	0.00	0.00
ATOM	2003	CG	ASP	X	130	41.414	41.085	22.802	0.00	0.00
ATOM	2004	OD1	ASP	X	130	40.912	40.049	22.326	0.00	0.00
ATOM	2005	OD2	ASP	X	130	41.239	42.211	22.246	0.00	0.00
ATOM	2006	C	ASP	X	130	40.417	39.755	25.330	0.00	0.00
ATOM	2007	O	ASP	X	130	40.878	38.620	25.492	0.00	0.00
ATOM	2008	N	GLY	X	131	39.050	39.981	25.119	0.00	0.00
ATOM	2009	H	GLY	X	131	38.785	40.940	24.945	0.00	0.00
ATOM	2010	CA	GLY	X	131	38.065	38.904	25.237	0.00	0.00
ATOM	2011	HA2	GLY	X	131	38.391	38.125	25.927	0.00	0.00
ATOM	2012	HA3	GLY	X	131	37.083	39.304	25.492	0.00	0.00
ATOM	2013	C	GLY	X	131	37.777	38.132	23.975	0.00	0.00
ATOM	2014	O	GLY	X	131	36.882	37.275	23.944	0.00	0.00
ATOM	2015	N	ARG	X	132	38.469	38.382	22.854	0.00	0.00
ATOM	2016	H	ARG	X	132	39.171	39.109	22.870	0.00	0.00
ATOM	2017	CA	ARG	X	132	38.059	37.832	21.574	0.00	0.00
ATOM	2018	HA	ARG	X	132	37.078	38.280	21.409	0.00	0.00
ATOM	2019	CB	ARG	X	132	39.004	38.202	20.352	0.00	0.00
ATOM	2020	HB2	ARG	X	132	38.427	38.036	19.443	0.00	0.00
ATOM	2021	HB3	ARG	X	132	39.189	39.272	20.450	0.00	0.00
ATOM	2022	CG	ARG	X	132	40.305	37.445	20.415	0.00	0.00
ATOM	2023	HG2	ARG	X	132	40.769	37.539	21.396	0.00	0.00
ATOM	2024	HG3	ARG	X	132	40.174	36.383	20.203	0.00	0.00
ATOM	2025	CD	ARG	X	132	41.338	38.092	19.443	0.00	0.00
ATOM	2026	HD2	ARG	X	132	42.209	37.448	19.560	0.00	0.00
ATOM	2027	HD3	ARG	X	132	40.935	38.135	18.431	0.00	0.00
ATOM	2028	NE	ARG	X	132	41.679	39.386	19.824	0.00	0.00
ATOM	2029	HE	ARG	X	132	41.258	39.649	20.704	0.00	0.00
ATOM	2030	CZ	ARG	X	132	42.464	40.205	19.196	0.00	0.00
ATOM	2031	NH1	ARG	X	132	43.022	39.940	18.029	0.00	0.00
ATOM	2032	HH11	ARG	X	132	42.649	39.088	17.635	0.00	0.00
ATOM	2033	HH12	ARG	X	132	43.581	40.560	17.461	0.00	0.00
ATOM	2034	NH2	ARG	X	132	42.645	41.353	19.769	0.00	0.00
ATOM	2035	HH21	ARG	X	132	42.054	41.672	20.523	0.00	0.00
ATOM	2036	HH22	ARG	X	132	43.267	41.994	19.298	0.00	0.00
ATOM	2037	C	ARG	X	132	37.785	36.320	21.587	0.00	0.00
ATOM	2038	O	ARG	X	132	36.828	35.925	20.985	0.00	0.00
ATOM	2039	N	PHE	X	133	38.464	35.492	22.328	0.00	0.00
ATOM	2040	H	PHE	X	133	39.221	35.918	22.843	0.00	0.00
ATOM	2041	CA	PHE	X	133	38.317	34.005	22.421	0.00	0.00
ATOM	2042	HA	PHE	X	133	38.169	33.687	21.389	0.00	0.00
ATOM	2043	CB	PHE	X	133	39.645	33.346	22.927	0.00	0.00
ATOM	2044	HB2	PHE	X	133	39.883	33.572	23.967	0.00	0.00
ATOM	2045	HB3	PHE	X	133	39.394	32.285	22.952	0.00	0.00
ATOM	2046	CG	PHE	X	133	40.836	33.487	22.040	0.00	0.00
ATOM	2047	CD1	PHE	X	133	41.702	34.557	22.129	0.00	0.00
ATOM	2048	HD1	PHE	X	133	41.790	35.075	23.073	0.00	0.00
ATOM	2049	CE1	PHE	X	133	42.614	34.875	21.115	0.00	0.00
ATOM	2050	HE1	PHE	X	133	43.108	35.833	21.182	0.00	0.00
ATOM	2051	CZ	PHE	X	133	42.796	33.960	20.050	0.00	0.00
ATOM	2052	HZ	PHE	X	133	43.589	34.172	19.348	0.00	0.00
ATOM	2053	CE2	PHE	X	133	42.106	32.719	20.037	0.00	0.00
ATOM	2054	HE2	PHE	X	133	42.203	32.068	19.181	0.00	0.00
ATOM	2055	CD2	PHE	X	133	41.019	32.627	20.912	0.00	0.00
ATOM	2056	HD2	PHE	X	133	40.236	31.956	20.591	0.00	0.00
ATOM	2057	C	PHE	X	133	37.094	33.552	23.286	0.00	0.00
ATOM	2058	O	PHE	X	133	36.186	32.813	22.824	0.00	0.00
ATOM	2059	N	LEU	X	134	37.075	34.015	24.590	0.00	0.00
ATOM	2060	H	LEU	X	134	37.797	34.628	24.939	0.00	0.00
ATOM	2061	CA	LEU	X	134	35.904	33.865	25.430	0.00	0.00
ATOM	2062	HA	LEU	X	134	35.856	32.780	25.515	0.00	0.00
ATOM	2063	CB	LEU	X	134	36.270	34.336	26.822	0.00	0.00
ATOM	2064	HB2	LEU	X	134	36.936	33.631	27.320	0.00	0.00
ATOM	2065	HB3	LEU	X	134	36.795	35.288	26.741	0.00	0.00
ATOM	2066	CG	LEU	X	134	35.119	34.492	27.837	0.00	0.00
ATOM	2067	HG	LEU	X	134	34.397	35.182	27.401	0.00	0.00
ATOM	2068	CD1	LEU	X	134	34.387	33.124	28.056	0.00	0.00

ATOM	2069	HD11	LEU	X	134	34.095	32.834	27.047	0.00	0.00
ATOM	2070	HD12	LEU	X	134	33.464	33.185	28.634	0.00	0.00
ATOM	2071	HD13	LEU	X	134	35.058	32.415	28.541	0.00	0.00
ATOM	2072	CD2	LEU	X	134	35.684	35.026	29.147	0.00	0.00
ATOM	2073	HD21	LEU	X	134	34.916	35.390	29.829	0.00	0.00
ATOM	2074	HD22	LEU	X	134	36.100	34.158	29.658	0.00	0.00
ATOM	2075	HD23	LEU	X	134	36.570	35.641	28.986	0.00	0.00
ATOM	2076	C	LEU	X	134	34.595	34.438	24.840	0.00	0.00
ATOM	2077	O	LEU	X	134	33.630	33.654	24.785	0.00	0.00
ATOM	2078	N	VAL	X	135	34.582	35.605	24.212	0.00	0.00
ATOM	2079	H	VAL	X	135	35.448	36.122	24.264	0.00	0.00
ATOM	2080	CA	VAL	X	135	33.383	36.172	23.509	0.00	0.00
ATOM	2081	HA	VAL	X	135	32.558	36.232	24.219	0.00	0.00
ATOM	2082	CB	VAL	X	135	33.702	37.673	23.073	0.00	0.00
ATOM	2083	HB	VAL	X	135	34.624	37.673	22.492	0.00	0.00
ATOM	2084	CG1	VAL	X	135	32.596	38.390	22.285	0.00	0.00
ATOM	2085	HG11	VAL	X	135	32.437	37.878	21.336	0.00	0.00
ATOM	2086	HG12	VAL	X	135	31.680	38.345	22.874	0.00	0.00
ATOM	2087	HG13	VAL	X	135	32.804	39.447	22.122	0.00	0.00
ATOM	2088	CG2	VAL	X	135	33.907	38.380	24.438	0.00	0.00
ATOM	2089	HG21	VAL	X	135	34.741	37.979	25.015	0.00	0.00
ATOM	2090	HG22	VAL	X	135	33.014	38.290	25.056	0.00	0.00
ATOM	2091	HG23	VAL	X	135	34.204	39.422	24.320	0.00	0.00
ATOM	2092	C	VAL	X	135	32.925	35.309	22.390	0.00	0.00
ATOM	2093	O	VAL	X	135	31.703	35.023	22.327	0.00	0.00
ATOM	2094	N	GLN	X	136	33.826	34.819	21.511	0.00	0.00
ATOM	2095	H	GLN	X	136	34.808	34.952	21.703	0.00	0.00
ATOM	2096	CA	GLN	X	136	33.506	33.858	20.412	0.00	0.00
ATOM	2097	HA	GLN	X	136	32.726	34.391	19.868	0.00	0.00
ATOM	2098	CB	GLN	X	136	34.734	33.893	19.485	0.00	0.00
ATOM	2099	HB2	GLN	X	136	34.746	34.906	19.082	0.00	0.00
ATOM	2100	HB3	GLN	X	136	35.635	33.524	19.975	0.00	0.00
ATOM	2101	CG	GLN	X	136	34.454	33.017	18.253	0.00	0.00
ATOM	2102	HG2	GLN	X	136	33.445	33.252	17.914	0.00	0.00
ATOM	2103	HG3	GLN	X	136	35.146	33.124	17.418	0.00	0.00
ATOM	2104	CD	GLN	X	136	34.474	31.509	18.506	0.00	0.00
ATOM	2105	OE1	GLN	X	136	35.363	31.004	19.174	0.00	0.00
ATOM	2106	NE2	GLN	X	136	33.579	30.779	17.884	0.00	0.00
ATOM	2107	HE21	GLN	X	136	33.701	29.779	17.809	0.00	0.00
ATOM	2108	HE22	GLN	X	136	32.827	31.153	17.323	0.00	0.00
ATOM	2109	C	GLN	X	136	32.896	32.516	20.900	0.00	0.00
ATOM	2110	O	GLN	X	136	31.893	32.076	20.281	0.00	0.00
ATOM	2111	N	ALA	X	137	33.610	31.809	21.831	0.00	0.00
ATOM	2112	H	ALA	X	137	34.546	32.122	22.045	0.00	0.00
ATOM	2113	CA	ALA	X	137	33.139	30.526	22.282	0.00	0.00
ATOM	2114	HA	ALA	X	137	33.037	29.990	21.338	0.00	0.00
ATOM	2115	CB	ALA	X	137	34.181	29.797	23.167	0.00	0.00
ATOM	2116	HB1	ALA	X	137	33.807	28.831	23.509	0.00	0.00
ATOM	2117	HB2	ALA	X	137	34.503	30.405	24.013	0.00	0.00
ATOM	2118	HB3	ALA	X	137	35.076	29.608	22.575	0.00	0.00
ATOM	2119	C	ALA	X	137	31.785	30.687	23.015	0.00	0.00
ATOM	2120	O	ALA	X	137	30.831	29.951	22.768	0.00	0.00
ATOM	2121	N	GLU	X	138	31.742	31.582	23.985	0.00	0.00
ATOM	2122	H	GLU	X	138	32.584	32.056	24.279	0.00	0.00
ATOM	2123	CA	GLU	X	138	30.639	31.657	24.926	0.00	0.00
ATOM	2124	HA	GLU	X	138	30.289	30.625	24.964	0.00	0.00
ATOM	2125	CB	GLU	X	138	31.261	31.932	26.330	0.00	0.00
ATOM	2126	HB2	GLU	X	138	31.860	32.842	26.369	0.00	0.00
ATOM	2127	HB3	GLU	X	138	30.458	32.118	27.043	0.00	0.00
ATOM	2128	CG	GLU	X	138	32.241	30.741	26.829	0.00	0.00
ATOM	2129	HG2	GLU	X	138	33.174	30.733	26.265	0.00	0.00
ATOM	2130	HG3	GLU	X	138	32.544	30.860	27.870	0.00	0.00
ATOM	2131	CD	GLU	X	138	31.650	29.356	26.601	0.00	0.00
ATOM	2132	OE1	GLU	X	138	30.499	29.156	27.020	0.00	0.00
ATOM	2133	OE2	GLU	X	138	32.401	28.507	26.092	0.00	0.00
ATOM	2134	C	GLU	X	138	29.500	32.584	24.554	0.00	0.00
ATOM	2135	O	GLU	X	138	28.480	32.571	25.268	0.00	0.00

ATOM	2136	N	ARG	X	139	29.622	33.437	23.520	0.00	0.00
ATOM	2137	H	ARG	X	139	30.496	33.461	23.013	0.00	0.00
ATOM	2138	CA	ARG	X	139	28.651	34.431	23.147	0.00	0.00
ATOM	2139	HA	ARG	X	139	29.077	35.121	22.417	0.00	0.00
ATOM	2140	CB	ARG	X	139	27.439	33.753	22.591	0.00	0.00
ATOM	2141	HB2	ARG	X	139	27.122	32.980	23.291	0.00	0.00
ATOM	2142	HB3	ARG	X	139	26.623	34.475	22.598	0.00	0.00
ATOM	2143	CG	ARG	X	139	27.663	33.189	21.220	0.00	0.00
ATOM	2144	HG2	ARG	X	139	27.768	34.115	20.655	0.00	0.00
ATOM	2145	HG3	ARG	X	139	28.655	32.762	21.071	0.00	0.00
ATOM	2146	CD	ARG	X	139	26.531	32.453	20.466	0.00	0.00
ATOM	2147	HD2	ARG	X	139	26.962	32.092	19.532	0.00	0.00
ATOM	2148	HD3	ARG	X	139	26.206	31.576	21.026	0.00	0.00
ATOM	2149	NE	ARG	X	139	25.339	33.246	20.122	0.00	0.00
ATOM	2150	HE	ARG	X	139	24.629	33.312	20.837	0.00	0.00
ATOM	2151	CZ	ARG	X	139	25.216	34.079	19.152	0.00	0.00
ATOM	2152	NH1	ARG	X	139	26.059	34.086	18.107	0.00	0.00
ATOM	2153	HH11	ARG	X	139	26.802	33.424	17.939	0.00	0.00
ATOM	2154	HH12	ARG	X	139	25.935	34.861	17.471	0.00	0.00
ATOM	2155	NH2	ARG	X	139	24.176	34.896	19.194	0.00	0.00
ATOM	2156	HH21	ARG	X	139	23.653	34.909	20.058	0.00	0.00
ATOM	2157	HH22	ARG	X	139	23.834	35.420	18.401	0.00	0.00
ATOM	2158	C	ARG	X	139	28.314	35.375	24.354	0.00	0.00
ATOM	2159	O	ARG	X	139	27.303	36.083	24.415	0.00	0.00
ATOM	2160	N	THR	X	140	29.104	35.379	25.427	0.00	0.00
ATOM	2161	H	THR	X	140	29.900	34.804	25.661	0.00	0.00
ATOM	2162	CA	THR	X	140	28.915	36.464	26.449	0.00	0.00
ATOM	2163	HA	THR	X	140	27.898	36.574	26.826	0.00	0.00
ATOM	2164	CB	THR	X	140	29.771	36.128	27.700	0.00	0.00
ATOM	2165	HB	THR	X	140	29.707	36.946	28.418	0.00	0.00
ATOM	2166	CG2	THR	X	140	29.227	34.870	28.308	0.00	0.00
ATOM	2167	HG21	THR	X	140	29.006	34.105	27.564	0.00	0.00
ATOM	2168	HG22	THR	X	140	28.323	35.144	28.852	0.00	0.00
ATOM	2169	HG23	THR	X	140	30.038	34.504	28.938	0.00	0.00
ATOM	2170	OG1	THR	X	140	31.069	35.902	27.310	0.00	0.00
ATOM	2171	HG1	THR	X	140	31.381	36.685	26.851	0.00	0.00
ATOM	2172	C	THR	X	140	29.412	37.808	25.809	0.00	0.00
ATOM	2173	O	THR	X	140	30.214	37.810	24.855	0.00	0.00
ATOM	2174	N	VAL	X	141	28.912	38.888	26.336	0.00	0.00
ATOM	2175	H	VAL	X	141	28.225	38.917	27.076	0.00	0.00
ATOM	2176	CA	VAL	X	141	29.495	40.222	26.024	0.00	0.00
ATOM	2177	HA	VAL	X	141	30.143	40.131	25.152	0.00	0.00
ATOM	2178	CB	VAL	X	141	28.463	41.366	25.757	0.00	0.00
ATOM	2179	HB	VAL	X	141	27.764	41.329	26.592	0.00	0.00
ATOM	2180	CG1	VAL	X	141	29.141	42.765	25.803	0.00	0.00
ATOM	2181	HG11	VAL	X	141	29.917	42.761	25.037	0.00	0.00
ATOM	2182	HG12	VAL	X	141	28.570	43.614	25.425	0.00	0.00
ATOM	2183	HG13	VAL	X	141	29.531	43.036	26.784	0.00	0.00
ATOM	2184	CG2	VAL	X	141	27.642	41.108	24.472	0.00	0.00
ATOM	2185	HG21	VAL	X	141	28.413	40.895	23.732	0.00	0.00
ATOM	2186	HG22	VAL	X	141	27.050	41.986	24.215	0.00	0.00
ATOM	2187	HG23	VAL	X	141	26.959	40.258	24.466	0.00	0.00
ATOM	2188	C	VAL	X	141	30.517	40.528	27.086	0.00	0.00
ATOM	2189	O	VAL	X	141	30.294	40.423	28.266	0.00	0.00
ATOM	2190	N	LEU	X	142	31.682	41.004	26.692	0.00	0.00
ATOM	2191	H	LEU	X	142	31.896	41.128	25.712	0.00	0.00
ATOM	2192	CA	LEU	X	142	32.664	41.479	27.627	0.00	0.00
ATOM	2193	HA	LEU	X	142	32.328	41.305	28.649	0.00	0.00
ATOM	2194	CB	LEU	X	142	33.992	40.667	27.541	0.00	0.00
ATOM	2195	HB2	LEU	X	142	33.800	39.594	27.548	0.00	0.00
ATOM	2196	HB3	LEU	X	142	34.471	40.934	26.598	0.00	0.00
ATOM	2197	CG	LEU	X	142	34.897	41.007	28.849	0.00	0.00
ATOM	2198	HG	LEU	X	142	34.312	41.625	29.530	0.00	0.00
ATOM	2199	CD1	LEU	X	142	35.490	39.813	29.605	0.00	0.00
ATOM	2200	HD11	LEU	X	142	36.259	39.299	29.028	0.00	0.00
ATOM	2201	HD12	LEU	X	142	34.644	39.265	30.020	0.00	0.00
ATOM	2202	HD13	LEU	X	142	36.039	40.120	30.495	0.00	0.00

ATOM	2203	CD2	LEU	X	142	36.087	41.790	28.418	0.00	0.00
ATOM	2204	HD21	LEU	X	142	35.716	42.792	28.204	0.00	0.00
ATOM	2205	HD22	LEU	X	142	36.716	41.893	29.302	0.00	0.00
ATOM	2206	HD23	LEU	X	142	36.628	41.484	27.523	0.00	0.00
ATOM	2207	C	LEU	X	142	32.833	43.037	27.526	0.00	0.00
ATOM	2208	O	LEU	X	142	33.066	43.541	26.437	0.00	0.00
ATOM	2209	N	VAL	X	143	32.867	43.713	28.680	0.00	0.00
ATOM	2210	H	VAL	X	143	32.826	43.166	29.527	0.00	0.00
ATOM	2211	CA	VAL	X	143	33.296	45.085	28.902	0.00	0.00
ATOM	2212	HA	VAL	X	143	33.363	45.673	27.986	0.00	0.00
ATOM	2213	CB	VAL	X	143	32.209	45.887	29.700	0.00	0.00
ATOM	2214	HB	VAL	X	143	32.258	45.650	30.763	0.00	0.00
ATOM	2215	CG1	VAL	X	143	32.514	47.395	29.771	0.00	0.00
ATOM	2216	HG11	VAL	X	143	31.694	47.996	30.163	0.00	0.00
ATOM	2217	HG12	VAL	X	143	33.377	47.739	30.340	0.00	0.00
ATOM	2218	HG13	VAL	X	143	32.607	47.663	28.718	0.00	0.00
ATOM	2219	CG2	VAL	X	143	30.810	45.811	29.159	0.00	0.00
ATOM	2220	HG21	VAL	X	143	30.598	46.499	28.341	0.00	0.00
ATOM	2221	HG22	VAL	X	143	30.111	46.049	29.960	0.00	0.00
ATOM	2222	HG23	VAL	X	143	30.625	44.838	28.704	0.00	0.00
ATOM	2223	C	VAL	X	143	34.685	45.090	29.601	0.00	0.00
ATOM	2224	O	VAL	X	143	34.972	44.230	30.391	0.00	0.00
ATOM	2225	N	SER	X	144	35.419	46.156	29.450	0.00	0.00
ATOM	2226	H	SER	X	144	35.005	46.854	28.849	0.00	0.00
ATOM	2227	CA	SER	X	144	36.661	46.547	30.174	0.00	0.00
ATOM	2228	HA	SER	X	144	36.413	46.204	31.178	0.00	0.00
ATOM	2229	CB	SER	X	144	37.796	45.703	29.719	0.00	0.00
ATOM	2230	HB2	SER	X	144	37.350	44.715	29.607	0.00	0.00
ATOM	2231	HB3	SER	X	144	38.190	45.987	28.743	0.00	0.00
ATOM	2232	OG	SER	X	144	38.904	45.565	30.470	0.00	0.00
ATOM	2233	HG	SER	X	144	39.379	44.827	30.080	0.00	0.00
ATOM	2234	C	SER	X	144	36.926	48.030	30.113	0.00	0.00
ATOM	2235	O	SER	X	144	36.627	48.731	29.159	0.00	0.00
ATOM	2236	N	MET	X	145	37.458	48.552	31.195	0.00	0.00
ATOM	2237	H	MET	X	145	37.628	47.966	32.000	0.00	0.00
ATOM	2238	CA	MET	X	145	37.626	50.026	31.381	0.00	0.00
ATOM	2239	HA	MET	X	145	37.625	50.467	30.383	0.00	0.00
ATOM	2240	CB	MET	X	145	36.397	50.654	32.033	0.00	0.00
ATOM	2241	HB2	MET	X	145	36.284	51.728	31.889	0.00	0.00
ATOM	2242	HB3	MET	X	145	35.488	50.296	31.549	0.00	0.00
ATOM	2243	CG	MET	X	145	36.228	50.325	33.561	0.00	0.00
ATOM	2244	HG2	MET	X	145	37.177	50.322	34.097	0.00	0.00
ATOM	2245	HG3	MET	X	145	35.567	51.062	34.016	0.00	0.00
ATOM	2246	SD	MET	X	145	35.223	48.870	33.709	0.00	0.00
ATOM	2247	CE	MET	X	145	35.052	49.094	35.499	0.00	0.00
ATOM	2248	HE1	MET	X	145	34.915	48.197	36.104	0.00	0.00
ATOM	2249	HE2	MET	X	145	36.003	49.537	35.794	0.00	0.00
ATOM	2250	HE3	MET	X	145	34.310	49.854	35.746	0.00	0.00
ATOM	2251	C	MET	X	145	38.887	50.530	32.052	0.00	0.00
ATOM	2252	O	MET	X	145	39.414	49.973	33.007	0.00	0.00
ATOM	2253	N	ASN	X	146	39.370	51.604	31.514	0.00	0.00
ATOM	2254	H	ASN	X	146	38.771	52.098	30.869	0.00	0.00
ATOM	2255	CA	ASN	X	146	40.470	52.366	32.240	0.00	0.00
ATOM	2256	HA	ASN	X	146	41.269	51.766	32.675	0.00	0.00
ATOM	2257	CB	ASN	X	146	41.079	53.429	31.293	0.00	0.00
ATOM	2258	HB2	ASN	X	146	40.254	53.977	30.838	0.00	0.00
ATOM	2259	HB3	ASN	X	146	41.661	54.144	31.876	0.00	0.00
ATOM	2260	CG	ASN	X	146	41.990	52.780	30.213	0.00	0.00
ATOM	2261	OD1	ASN	X	146	42.418	51.626	30.284	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.378	53.529	29.173	0.00	0.00
ATOM	2263	HD21	ASN	X	146	43.170	53.406	28.559	0.00	0.00
ATOM	2264	HD22	ASN	X	146	41.895	54.416	29.169	0.00	0.00
ATOM	2265	C	ASN	X	146	39.870	53.234	33.383	0.00	0.00
ATOM	2266	O	ASN	X	146	38.754	53.694	33.309	0.00	0.00
ATOM	2267	N	TYR	X	147	40.667	53.397	34.443	0.00	0.00
ATOM	2268	H	TYR	X	147	41.545	52.904	34.359	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.504	54.100	35.719	0.00	0.00

ATOM	2270	HA	TYR	X	147	40.017	55.069	35.611	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.548	53.209	36.693	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.632	53.690	37.667	0.00	0.00
ATOM	2273	HB3	TYR	X	147	38.512	53.220	36.354	0.00	0.00
ATOM	2274	CG	TYR	X	147	40.120	51.834	36.781	0.00	0.00
ATOM	2275	CD1	TYR	X	147	39.529	50.797	36.042	0.00	0.00
ATOM	2276	HD1	TYR	X	147	38.780	51.029	35.299	0.00	0.00
ATOM	2277	CE1	TYR	X	147	39.750	49.472	36.356	0.00	0.00
ATOM	2278	HE1	TYR	X	147	39.230	48.686	35.829	0.00	0.00
ATOM	2279	CZ	TYR	X	147	40.815	49.159	37.260	0.00	0.00
ATOM	2280	OH	TYR	X	147	41.080	47.872	37.495	0.00	0.00
ATOM	2281	HH	TYR	X	147	41.919	47.802	37.957	0.00	0.00
ATOM	2282	CE2	TYR	X	147	41.521	50.202	37.958	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.218	49.979	38.753	0.00	0.00
ATOM	2284	CD2	TYR	X	147	41.105	51.502	37.748	0.00	0.00
ATOM	2285	HD2	TYR	X	147	41.552	52.333	38.274	0.00	0.00
ATOM	2286	C	TYR	X	147	41.872	54.393	36.385	0.00	0.00
ATOM	2287	O	TYR	X	147	42.894	53.784	36.036	0.00	0.00
ATOM	2288	N	ARG	X	148	41.921	55.350	37.283	0.00	0.00
ATOM	2289	H	ARG	X	148	41.075	55.874	37.454	0.00	0.00
ATOM	2290	CA	ARG	X	148	43.180	55.959	37.781	0.00	0.00
ATOM	2291	HA	ARG	X	148	43.881	56.039	36.950	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.934	57.319	38.364	0.00	0.00
ATOM	2293	HB2	ARG	X	148	42.114	57.215	39.075	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.856	57.603	38.872	0.00	0.00
ATOM	2295	CG	ARG	X	148	42.638	58.323	37.232	0.00	0.00
ATOM	2296	HG2	ARG	X	148	43.545	58.717	36.774	0.00	0.00
ATOM	2297	HG3	ARG	X	148	42.067	57.792	36.471	0.00	0.00
ATOM	2298	CD	ARG	X	148	41.902	59.619	37.856	0.00	0.00
ATOM	2299	HD2	ARG	X	148	42.405	60.049	38.722	0.00	0.00
ATOM	2300	HD3	ARG	X	148	42.034	60.334	37.044	0.00	0.00
ATOM	2301	NE	ARG	X	148	40.431	59.514	38.143	0.00	0.00
ATOM	2302	HE	ARG	X	148	40.028	58.589	38.088	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.700	60.538	38.674	0.00	0.00
ATOM	2304	NH1	ARG	X	148	40.188	61.785	38.844	0.00	0.00
ATOM	2305	HH11	ARG	X	148	41.176	61.979	38.922	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.546	62.550	38.996	0.00	0.00
ATOM	2307	NH2	ARG	X	148	38.503	60.336	39.118	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.925	59.567	38.810	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.969	61.125	39.455	0.00	0.00
ATOM	2310	C	ARG	X	148	43.856	55.069	38.834	0.00	0.00
ATOM	2311	O	ARG	X	148	43.186	54.456	39.651	0.00	0.00
ATOM	2312	N	VAL	X	149	45.217	55.158	38.910	0.00	0.00
ATOM	2313	H	VAL	X	149	45.732	55.868	38.410	0.00	0.00
ATOM	2314	CA	VAL	X	149	46.145	54.316	39.781	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.595	54.074	40.690	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.470	53.017	39.067	0.00	0.00
ATOM	2317	HB	VAL	X	149	47.341	52.523	39.496	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.437	51.879	39.102	0.00	0.00
ATOM	2319	HG11	VAL	X	149	45.095	51.772	40.132	0.00	0.00
ATOM	2320	HG12	VAL	X	149	44.601	52.179	38.470	0.00	0.00
ATOM	2321	HG13	VAL	X	149	45.921	50.935	38.852	0.00	0.00
ATOM	2322	CG2	VAL	X	149	46.837	53.218	37.619	0.00	0.00
ATOM	2323	HG21	VAL	X	149	47.594	53.978	37.425	0.00	0.00
ATOM	2324	HG22	VAL	X	149	45.959	53.549	37.066	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.046	52.221	37.230	0.00	0.00
ATOM	2326	C	VAL	X	149	47.344	55.057	40.364	0.00	0.00
ATOM	2327	O	VAL	X	149	47.664	56.157	39.912	0.00	0.00
ATOM	2328	N	GLY	X	150	47.958	54.478	41.420	0.00	0.00
ATOM	2329	H	GLY	X	150	47.786	53.502	41.615	0.00	0.00
ATOM	2330	CA	GLY	X	150	49.072	55.117	42.126	0.00	0.00
ATOM	2331	HA2	GLY	X	150	49.575	54.438	42.815	0.00	0.00
ATOM	2332	HA3	GLY	X	150	49.797	55.338	41.342	0.00	0.00
ATOM	2333	C	GLY	X	150	48.463	56.394	42.817	0.00	0.00
ATOM	2334	O	GLY	X	150	47.308	56.380	43.273	0.00	0.00
ATOM	2335	N	ALA	X	151	49.150	57.501	42.775	0.00	0.00
ATOM	2336	H	ALA	X	151	50.074	57.406	42.380	0.00	0.00

ATOM	2337	CA	ALA	X	151	48.705	58.776	43.445	0.00	0.00
ATOM	2338	HA	ALA	X	151	48.395	58.618	44.478	0.00	0.00
ATOM	2339	CB	ALA	X	151	49.767	59.853	43.536	0.00	0.00
ATOM	2340	HB1	ALA	X	151	49.380	60.867	43.641	0.00	0.00
ATOM	2341	HB2	ALA	X	151	50.316	59.899	42.595	0.00	0.00
ATOM	2342	HB3	ALA	X	151	50.489	59.566	44.300	0.00	0.00
ATOM	2343	C	ALA	X	151	47.429	59.366	42.722	0.00	0.00
ATOM	2344	O	ALA	X	151	46.511	59.768	43.414	0.00	0.00
ATOM	2345	N	PHE	X	152	47.464	59.340	41.417	0.00	0.00
ATOM	2346	H	PHE	X	152	48.291	58.905	41.032	0.00	0.00
ATOM	2347	CA	PHE	X	152	46.409	59.809	40.501	0.00	0.00
ATOM	2348	HA	PHE	X	152	46.354	60.892	40.606	0.00	0.00
ATOM	2349	CB	PHE	X	152	46.782	59.514	39.037	0.00	0.00
ATOM	2350	HB2	PHE	X	152	47.850	59.720	38.967	0.00	0.00
ATOM	2351	HB3	PHE	X	152	46.650	58.446	38.863	0.00	0.00
ATOM	2352	CG	PHE	X	152	45.989	60.253	37.939	0.00	0.00
ATOM	2353	CD1	PHE	X	152	46.174	59.902	36.599	0.00	0.00
ATOM	2354	HD1	PHE	X	152	46.907	59.195	36.238	0.00	0.00
ATOM	2355	CE1	PHE	X	152	45.404	60.510	35.587	0.00	0.00
ATOM	2356	HE1	PHE	X	152	45.653	60.421	34.539	0.00	0.00
ATOM	2357	CZ	PHE	X	152	44.535	61.503	35.980	0.00	0.00
ATOM	2358	HZ	PHE	X	152	43.982	62.013	35.205	0.00	0.00
ATOM	2359	CE2	PHE	X	152	44.436	62.039	37.257	0.00	0.00
ATOM	2360	HE2	PHE	X	152	43.778	62.883	37.403	0.00	0.00
ATOM	2361	CD2	PHE	X	152	45.101	61.340	38.315	0.00	0.00
ATOM	2362	HD2	PHE	X	152	45.099	61.775	39.303	0.00	0.00
ATOM	2363	C	PHE	X	152	45.040	59.267	40.961	0.00	0.00
ATOM	2364	O	PHE	X	152	44.018	59.893	40.688	0.00	0.00
ATOM	2365	N	GLY	X	153	44.940	57.957	41.443	0.00	0.00
ATOM	2366	H	GLY	X	153	45.737	57.384	41.678	0.00	0.00
ATOM	2367	CA	GLY	X	153	43.692	57.371	41.917	0.00	0.00
ATOM	2368	HA2	GLY	X	153	42.885	58.015	41.567	0.00	0.00
ATOM	2369	HA3	GLY	X	153	43.675	56.371	41.484	0.00	0.00
ATOM	2370	C	GLY	X	153	43.515	57.276	43.414	0.00	0.00
ATOM	2371	O	GLY	X	153	42.396	57.161	43.832	0.00	0.00
ATOM	2372	N	PHE	X	154	44.570	57.321	44.250	0.00	0.00
ATOM	2373	H	PHE	X	154	45.498	57.337	43.852	0.00	0.00
ATOM	2374	CA	PHE	X	154	44.514	56.787	45.621	0.00	0.00
ATOM	2375	HA	PHE	X	154	43.451	56.721	45.850	0.00	0.00
ATOM	2376	CB	PHE	X	154	45.017	55.309	45.530	0.00	0.00
ATOM	2377	HB2	PHE	X	154	46.015	55.345	45.094	0.00	0.00
ATOM	2378	HB3	PHE	X	154	45.085	54.892	46.535	0.00	0.00
ATOM	2379	CG	PHE	X	154	44.047	54.463	44.838	0.00	0.00
ATOM	2380	CD1	PHE	X	154	44.274	54.023	43.505	0.00	0.00
ATOM	2381	HD1	PHE	X	154	45.194	54.374	43.061	0.00	0.00
ATOM	2382	CE1	PHE	X	154	43.327	53.230	42.892	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.476	52.936	41.863	0.00	0.00
ATOM	2384	CZ	PHE	X	154	42.162	52.883	43.522	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.446	52.219	43.061	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.929	53.354	44.794	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.944	53.127	45.174	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.886	54.122	45.528	0.00	0.00
ATOM	2389	HD2	PHE	X	154	42.625	54.470	46.517	0.00	0.00
ATOM	2390	C	PHE	X	154	45.310	57.500	46.753	0.00	0.00
ATOM	2391	O	PHE	X	154	45.310	57.040	47.906	0.00	0.00
ATOM	2392	N	LEU	X	155	45.883	58.694	46.400	0.00	0.00
ATOM	2393	H	LEU	X	155	45.787	59.098	45.479	0.00	0.00
ATOM	2394	CA	LEU	X	155	46.610	59.570	47.359	0.00	0.00
ATOM	2395	HA	LEU	X	155	47.127	58.861	48.007	0.00	0.00
ATOM	2396	CB	LEU	X	155	47.569	60.496	46.663	0.00	0.00
ATOM	2397	HB2	LEU	X	155	48.258	59.808	46.172	0.00	0.00
ATOM	2398	HB3	LEU	X	155	47.022	61.082	45.924	0.00	0.00
ATOM	2399	CG	LEU	X	155	48.416	61.437	47.570	0.00	0.00
ATOM	2400	HG	LEU	X	155	48.837	60.858	48.392	0.00	0.00
ATOM	2401	CD1	LEU	X	155	49.529	61.918	46.582	0.00	0.00
ATOM	2402	HD11	LEU	X	155	49.973	62.824	46.996	0.00	0.00
ATOM	2403	HD12	LEU	X	155	49.182	62.148	45.575	0.00	0.00

ATOM	2404	HD13	LEU	X	155	50.145	61.050	46.347	0.00	0.00
ATOM	2405	CD2	LEU	X	155	47.646	62.668	47.969	0.00	0.00
ATOM	2406	HD21	LEU	X	155	48.385	63.377	48.341	0.00	0.00
ATOM	2407	HD22	LEU	X	155	47.145	63.120	47.113	0.00	0.00
ATOM	2408	HD23	LEU	X	155	47.025	62.383	48.818	0.00	0.00
ATOM	2409	C	LEU	X	155	45.521	60.350	48.134	0.00	0.00
ATOM	2410	O	LEU	X	155	44.651	60.966	47.573	0.00	0.00
ATOM	2411	N	ALA	X	156	45.576	60.374	49.474	0.00	0.00
ATOM	2412	H	ALA	X	156	46.315	59.813	49.873	0.00	0.00
ATOM	2413	CA	ALA	X	156	44.573	60.980	50.305	0.00	0.00
ATOM	2414	HA	ALA	X	156	43.954	61.659	49.718	0.00	0.00
ATOM	2415	CB	ALA	X	156	43.716	59.832	50.814	0.00	0.00
ATOM	2416	HB1	ALA	X	156	44.232	59.234	51.565	0.00	0.00
ATOM	2417	HB2	ALA	X	156	43.389	59.312	49.914	0.00	0.00
ATOM	2418	HB3	ALA	X	156	42.781	60.215	51.222	0.00	0.00
ATOM	2419	C	ALA	X	156	45.276	61.837	51.479	0.00	0.00
ATOM	2420	O	ALA	X	156	46.381	61.675	51.907	0.00	0.00
ATOM	2421	N	LEU	X	157	44.602	62.860	51.989	0.00	0.00
ATOM	2422	H	LEU	X	157	43.726	63.025	51.515	0.00	0.00
ATOM	2423	CA	LEU	X	157	44.958	63.786	53.058	0.00	0.00
ATOM	2424	HA	LEU	X	157	45.800	63.385	53.622	0.00	0.00
ATOM	2425	CB	LEU	X	157	45.389	65.124	52.561	0.00	0.00
ATOM	2426	HB2	LEU	X	157	44.616	65.443	51.862	0.00	0.00
ATOM	2427	HB3	LEU	X	157	45.455	65.812	53.405	0.00	0.00
ATOM	2428	CG	LEU	X	157	46.809	65.103	51.854	0.00	0.00
ATOM	2429	HG	LEU	X	157	46.819	64.223	51.211	0.00	0.00
ATOM	2430	CD1	LEU	X	157	46.989	66.274	50.834	0.00	0.00
ATOM	2431	HD11	LEU	X	157	47.345	65.882	49.882	0.00	0.00
ATOM	2432	HD12	LEU	X	157	47.623	67.062	51.242	0.00	0.00
ATOM	2433	HD13	LEU	X	157	46.091	66.837	50.580	0.00	0.00
ATOM	2434	CD2	LEU	X	157	48.011	64.930	52.766	0.00	0.00
ATOM	2435	HD21	LEU	X	157	48.915	64.887	52.158	0.00	0.00
ATOM	2436	HD22	LEU	X	157	48.248	65.783	53.403	0.00	0.00
ATOM	2437	HD23	LEU	X	157	47.945	64.032	53.379	0.00	0.00
ATOM	2438	C	LEU	X	157	43.632	63.898	53.877	0.00	0.00
ATOM	2439	O	LEU	X	157	42.537	64.049	53.331	0.00	0.00
ATOM	2440	N	PRO	X	158	43.720	64.006	55.287	0.00	0.00
ATOM	2441	CD	PRO	X	158	45.029	63.910	55.979	0.00	0.00
ATOM	2442	HD2	PRO	X	158	45.839	64.523	55.582	0.00	0.00
ATOM	2443	HD3	PRO	X	158	45.367	62.882	56.110	0.00	0.00
ATOM	2444	CG	PRO	X	158	44.712	64.411	57.417	0.00	0.00
ATOM	2445	HG2	PRO	X	158	44.779	65.491	57.549	0.00	0.00
ATOM	2446	HG3	PRO	X	158	45.278	63.932	58.216	0.00	0.00
ATOM	2447	CB	PRO	X	158	43.204	63.875	57.581	0.00	0.00
ATOM	2448	HB2	PRO	X	158	42.576	64.295	58.366	0.00	0.00
ATOM	2449	HB3	PRO	X	158	43.257	62.806	57.786	0.00	0.00
ATOM	2450	CA	PRO	X	158	42.644	64.276	56.187	0.00	0.00
ATOM	2451	HA	PRO	X	158	41.772	63.655	55.981	0.00	0.00
ATOM	2452	C	PRO	X	158	42.215	65.804	56.204	0.00	0.00
ATOM	2453	O	PRO	X	158	42.667	66.554	55.302	0.00	0.00
ATOM	2454	N	GLY	X	159	41.423	66.320	57.158	0.00	0.00
ATOM	2455	H	GLY	X	159	40.868	65.626	57.638	0.00	0.00
ATOM	2456	CA	GLY	X	159	41.274	67.788	57.329	0.00	0.00
ATOM	2457	HA2	GLY	X	159	40.974	67.894	58.371	0.00	0.00
ATOM	2458	HA3	GLY	X	159	42.258	68.251	57.256	0.00	0.00
ATOM	2459	C	GLY	X	159	40.324	68.544	56.341	0.00	0.00
ATOM	2460	O	GLY	X	159	39.616	69.498	56.673	0.00	0.00
ATOM	2461	N	SER	X	160	40.307	68.148	55.086	0.00	0.00
ATOM	2462	H	SER	X	160	40.986	67.422	54.909	0.00	0.00
ATOM	2463	CA	SER	X	160	39.472	68.658	53.993	0.00	0.00
ATOM	2464	HA	SER	X	160	38.572	69.028	54.484	0.00	0.00
ATOM	2465	CB	SER	X	160	40.179	69.838	53.348	0.00	0.00
ATOM	2466	HB2	SER	X	160	39.485	70.593	52.977	0.00	0.00
ATOM	2467	HB3	SER	X	160	40.676	70.304	54.199	0.00	0.00
ATOM	2468	OG	SER	X	160	41.104	69.330	52.362	0.00	0.00
ATOM	2469	HG	SER	X	160	41.957	69.580	52.724	0.00	0.00
ATOM	2470	C	SER	X	160	39.125	67.454	52.986	0.00	0.00

ATOM	2471	O	SER	X	160	39.338	66.313	53.371	0.00	0.00
ATOM	2472	N	ARG	X	161	38.581	67.715	51.789	0.00	0.00
ATOM	2473	H	ARG	X	161	38.520	68.668	51.462	0.00	0.00
ATOM	2474	CA	ARG	X	161	38.628	66.754	50.717	0.00	0.00
ATOM	2475	HA	ARG	X	161	39.139	65.851	51.050	0.00	0.00
ATOM	2476	CB	ARG	X	161	37.136	66.398	50.337	0.00	0.00
ATOM	2477	HB2	ARG	X	161	36.464	67.232	50.135	0.00	0.00
ATOM	2478	HB3	ARG	X	161	37.063	65.745	49.467	0.00	0.00
ATOM	2479	CG	ARG	X	161	36.477	65.616	51.568	0.00	0.00
ATOM	2480	HG2	ARG	X	161	37.079	64.779	51.923	0.00	0.00
ATOM	2481	HG3	ARG	X	161	36.428	66.300	52.415	0.00	0.00
ATOM	2482	CD	ARG	X	161	35.095	64.976	51.349	0.00	0.00
ATOM	2483	HD2	ARG	X	161	35.122	64.115	50.681	0.00	0.00
ATOM	2484	HD3	ARG	X	161	34.820	64.723	52.373	0.00	0.00
ATOM	2485	NE	ARG	X	161	34.180	65.930	50.708	0.00	0.00
ATOM	2486	HE	ARG	X	161	34.504	66.502	49.941	0.00	0.00
ATOM	2487	CZ	ARG	X	161	32.853	65.975	50.798	0.00	0.00
ATOM	2488	NH1	ARG	X	161	32.111	65.191	51.572	0.00	0.00
ATOM	2489	HH11	ARG	X	161	32.533	64.405	52.047	0.00	0.00
ATOM	2490	HH12	ARG	X	161	31.155	65.095	51.262	0.00	0.00
ATOM	2491	NH2	ARG	X	161	32.301	66.978	50.245	0.00	0.00
ATOM	2492	HH21	ARG	X	161	32.797	67.640	49.666	0.00	0.00
ATOM	2493	HH22	ARG	X	161	31.312	67.063	50.058	0.00	0.00
ATOM	2494	C	ARG	X	161	39.382	67.260	49.491	0.00	0.00
ATOM	2495	O	ARG	X	161	38.864	67.012	48.385	0.00	0.00
ATOM	2496	N	GLU	X	162	40.513	67.837	49.654	0.00	0.00
ATOM	2497	H	GLU	X	162	40.801	67.944	50.616	0.00	0.00
ATOM	2498	CA	GLU	X	162	41.296	68.271	48.577	0.00	0.00
ATOM	2499	HA	GLU	X	162	40.635	68.748	47.853	0.00	0.00
ATOM	2500	CB	GLU	X	162	42.293	69.334	48.976	0.00	0.00
ATOM	2501	HB2	GLU	X	162	42.778	69.052	49.911	0.00	0.00
ATOM	2502	HB3	GLU	X	162	43.125	69.349	48.273	0.00	0.00
ATOM	2503	CG	GLU	X	162	41.853	70.774	49.280	0.00	0.00
ATOM	2504	HG2	GLU	X	162	40.965	70.556	49.874	0.00	0.00
ATOM	2505	HG3	GLU	X	162	42.592	71.322	49.863	0.00	0.00
ATOM	2506	CD	GLU	X	162	41.339	71.502	48.006	0.00	0.00
ATOM	2507	OE1	GLU	X	162	42.143	71.648	47.094	0.00	0.00
ATOM	2508	OE2	GLU	X	162	40.152	71.903	47.914	0.00	0.00
ATOM	2509	C	GLU	X	162	42.029	67.001	48.031	0.00	0.00
ATOM	2510	O	GLU	X	162	42.157	66.956	46.794	0.00	0.00
ATOM	2511	N	ALA	X	163	42.382	65.973	48.841	0.00	0.00
ATOM	2512	H	ALA	X	163	42.156	65.977	49.826	0.00	0.00
ATOM	2513	CA	ALA	X	163	42.882	64.645	48.436	0.00	0.00
ATOM	2514	HA	ALA	X	163	42.761	64.653	47.352	0.00	0.00
ATOM	2515	CB	ALA	X	163	44.352	64.495	48.903	0.00	0.00
ATOM	2516	HB1	ALA	X	163	44.854	63.700	48.351	0.00	0.00
ATOM	2517	HB2	ALA	X	163	44.527	64.335	49.967	0.00	0.00
ATOM	2518	HB3	ALA	X	163	44.964	65.344	48.598	0.00	0.00
ATOM	2519	C	ALA	X	163	41.976	63.646	49.213	0.00	0.00
ATOM	2520	O	ALA	X	163	42.422	63.312	50.310	0.00	0.00
ATOM	2521	N	PRO	X	164	40.787	63.261	48.720	0.00	0.00
ATOM	2522	CD	PRO	X	164	40.099	63.803	47.601	0.00	0.00
ATOM	2523	HD2	PRO	X	164	40.570	63.656	46.629	0.00	0.00
ATOM	2524	HD3	PRO	X	164	40.060	64.834	47.951	0.00	0.00
ATOM	2525	CG	PRO	X	164	38.682	63.326	47.609	0.00	0.00
ATOM	2526	HG2	PRO	X	164	38.575	62.447	46.975	0.00	0.00
ATOM	2527	HG3	PRO	X	164	38.023	64.105	47.226	0.00	0.00
ATOM	2528	CB	PRO	X	164	38.493	62.944	49.095	0.00	0.00
ATOM	2529	HB2	PRO	X	164	37.749	62.183	49.330	0.00	0.00
ATOM	2530	HB3	PRO	X	164	38.141	63.860	49.570	0.00	0.00
ATOM	2531	CA	PRO	X	164	39.837	62.537	49.554	0.00	0.00
ATOM	2532	HA	PRO	X	164	39.985	62.831	50.593	0.00	0.00
ATOM	2533	C	PRO	X	164	40.107	61.050	49.481	0.00	0.00
ATOM	2534	O	PRO	X	164	39.810	60.288	50.418	0.00	0.00
ATOM	2535	N	GLY	X	165	40.694	60.583	48.389	0.00	0.00
ATOM	2536	H	GLY	X	165	40.810	61.221	47.615	0.00	0.00
ATOM	2537	CA	GLY	X	165	41.087	59.180	48.157	0.00	0.00

ATOM	2538	HA2	GLY	X	165	42.046	59.126	47.642	0.00	0.00
ATOM	2539	HA3	GLY	X	165	41.140	58.669	49.119	0.00	0.00
ATOM	2540	C	GLY	X	165	40.087	58.466	47.238	0.00	0.00
ATOM	2541	O	GLY	X	165	38.936	58.854	47.014	0.00	0.00
ATOM	2542	N	ASN	X	166	40.513	57.293	46.718	0.00	0.00
ATOM	2543	H	ASN	X	166	41.438	56.974	46.971	0.00	0.00
ATOM	2544	CA	ASN	X	166	39.624	56.229	46.225	0.00	0.00
ATOM	2545	HA	ASN	X	166	40.215	55.320	46.119	0.00	0.00
ATOM	2546	CB	ASN	X	166	38.437	55.969	47.219	0.00	0.00
ATOM	2547	HB2	ASN	X	166	37.748	56.808	47.316	0.00	0.00
ATOM	2548	HB3	ASN	X	166	37.729	55.248	46.811	0.00	0.00
ATOM	2549	CG	ASN	X	166	39.068	55.560	48.573	0.00	0.00
ATOM	2550	OD1	ASN	X	166	40.032	54.752	48.585	0.00	0.00
ATOM	2551	ND2	ASN	X	166	38.600	56.071	49.704	0.00	0.00
ATOM	2552	HD21	ASN	X	166	38.833	55.750	50.633	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.772	56.643	49.629	0.00	0.00
ATOM	2554	C	ASN	X	166	39.120	56.549	44.813	0.00	0.00
ATOM	2555	O	ASN	X	166	38.165	55.808	44.347	0.00	0.00
ATOM	2556	N	VAL	X	167	39.582	57.512	44.069	0.00	0.00
ATOM	2557	H	VAL	X	167	40.509	57.873	44.244	0.00	0.00
ATOM	2558	CA	VAL	X	167	38.890	57.995	42.932	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.818	57.858	43.076	0.00	0.00
ATOM	2560	CB	VAL	X	167	39.089	59.461	42.638	0.00	0.00
ATOM	2561	HB	VAL	X	167	38.368	59.751	41.874	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.755	60.231	43.873	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.605	61.294	43.683	0.00	0.00
ATOM	2564	HG12	VAL	X	167	37.807	59.893	44.290	0.00	0.00
ATOM	2565	HG13	VAL	X	167	39.595	60.157	44.564	0.00	0.00
ATOM	2566	CG2	VAL	X	167	40.459	59.808	42.107	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.447	60.793	41.640	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.725	59.140	41.287	0.00	0.00
ATOM	2569	HG23	VAL	X	167	41.106	59.636	42.967	0.00	0.00
ATOM	2570	C	VAL	X	167	39.005	57.110	41.739	0.00	0.00
ATOM	2571	O	VAL	X	167	38.193	56.951	40.860	0.00	0.00
ATOM	2572	N	GLY	X	168	40.115	56.289	41.736	0.00	0.00
ATOM	2573	H	GLY	X	168	40.709	56.338	42.551	0.00	0.00
ATOM	2574	CA	GLY	X	168	40.268	55.104	40.839	0.00	0.00
ATOM	2575	HA2	GLY	X	168	40.259	55.439	39.802	0.00	0.00
ATOM	2576	HA3	GLY	X	168	41.196	54.586	41.081	0.00	0.00
ATOM	2577	C	GLY	X	168	39.145	54.093	41.022	0.00	0.00
ATOM	2578	O	GLY	X	168	38.800	53.359	40.096	0.00	0.00
ATOM	2579	N	LEU	X	169	38.470	54.034	42.143	0.00	0.00
ATOM	2580	H	LEU	X	169	38.588	54.745	42.851	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.345	53.057	42.311	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.429	52.254	41.578	0.00	0.00
ATOM	2583	CB	LEU	X	169	37.479	52.327	43.628	0.00	0.00
ATOM	2584	HB2	LEU	X	169	37.496	52.992	44.491	0.00	0.00
ATOM	2585	HB3	LEU	X	169	36.549	51.764	43.702	0.00	0.00
ATOM	2586	CG	LEU	X	169	38.591	51.294	43.926	0.00	0.00
ATOM	2587	HG	LEU	X	169	39.492	51.880	44.107	0.00	0.00
ATOM	2588	CD1	LEU	X	169	38.252	50.627	45.264	0.00	0.00
ATOM	2589	HD11	LEU	X	169	38.446	51.433	45.972	0.00	0.00
ATOM	2590	HD12	LEU	X	169	38.974	49.895	45.626	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.266	50.164	45.289	0.00	0.00
ATOM	2592	CD2	LEU	X	169	38.780	50.281	42.868	0.00	0.00
ATOM	2593	HD21	LEU	X	169	39.067	50.832	41.973	0.00	0.00
ATOM	2594	HD22	LEU	X	169	39.658	49.693	43.138	0.00	0.00
ATOM	2595	HD23	LEU	X	169	37.881	49.671	42.783	0.00	0.00
ATOM	2596	C	LEU	X	169	35.941	53.651	42.154	0.00	0.00
ATOM	2597	O	LEU	X	169	34.927	52.924	42.180	0.00	0.00
ATOM	2598	N	LEU	X	170	35.842	54.948	41.995	0.00	0.00
ATOM	2599	H	LEU	X	170	36.664	55.518	42.139	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.717	55.697	41.579	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.851	55.135	41.929	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.848	57.102	42.153	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.850	57.531	42.145	0.00	0.00
ATOM	2604	HB3	LEU	X	170	34.312	57.757	41.467	0.00	0.00

ATOM	2605	CG	LEU	X	170	34.209	57.011	43.578	0.00	0.00
ATOM	2606	HG	LEU	X	170	34.608	56.218	44.212	0.00	0.00
ATOM	2607	CD1	LEU	X	170	34.575	58.333	44.226	0.00	0.00
ATOM	2608	HD11	LEU	X	170	34.316	58.317	45.285	0.00	0.00
ATOM	2609	HD12	LEU	X	170	34.106	59.124	43.641	0.00	0.00
ATOM	2610	HD13	LEU	X	170	35.665	58.344	44.226	0.00	0.00
ATOM	2611	CD2	LEU	X	170	32.673	56.715	43.697	0.00	0.00
ATOM	2612	HD21	LEU	X	170	32.485	55.703	43.338	0.00	0.00
ATOM	2613	HD22	LEU	X	170	32.313	56.921	44.705	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.171	57.461	43.082	0.00	0.00
ATOM	2615	C	LEU	X	170	34.661	55.872	40.037	0.00	0.00
ATOM	2616	O	LEU	X	170	33.561	55.870	39.455	0.00	0.00
ATOM	2617	N	ASP	X	171	35.771	55.904	39.343	0.00	0.00
ATOM	2618	H	ASP	X	171	36.658	56.043	39.806	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.778	55.763	37.855	0.00	0.00
ATOM	2620	HA	ASP	X	171	35.218	56.572	37.386	0.00	0.00
ATOM	2621	CB	ASP	X	171	37.174	55.832	37.253	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.668	54.950	37.659	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.166	55.682	36.173	0.00	0.00
ATOM	2624	CG	ASP	X	171	38.015	57.070	37.562	0.00	0.00
ATOM	2625	OD1	ASP	X	171	37.528	58.216	37.436	0.00	0.00
ATOM	2626	OD2	ASP	X	171	39.278	56.892	37.830	0.00	0.00
ATOM	2627	C	ASP	X	171	35.022	54.462	37.401	0.00	0.00
ATOM	2628	O	ASP	X	171	34.153	54.599	36.527	0.00	0.00
ATOM	2629	N	GLN	X	172	35.351	53.345	38.038	0.00	0.00
ATOM	2630	H	GLN	X	172	36.087	53.310	38.729	0.00	0.00
ATOM	2631	CA	GLN	X	172	34.725	52.084	37.792	0.00	0.00
ATOM	2632	HA	GLN	X	172	34.928	51.780	36.765	0.00	0.00
ATOM	2633	CB	GLN	X	172	35.386	51.035	38.691	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.419	51.426	39.708	0.00	0.00
ATOM	2635	HB3	GLN	X	172	34.838	50.095	38.754	0.00	0.00
ATOM	2636	CG	GLN	X	172	36.862	50.648	38.374	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.085	50.249	37.385	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.447	51.568	38.376	0.00	0.00
ATOM	2639	CD	GLN	X	172	37.513	49.660	39.400	0.00	0.00
ATOM	2640	OE1	GLN	X	172	36.903	48.858	40.090	0.00	0.00
ATOM	2641	NE2	GLN	X	172	38.841	49.754	39.655	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.264	49.063	40.259	0.00	0.00
ATOM	2643	HE22	GLN	X	172	39.352	50.414	39.087	0.00	0.00
ATOM	2644	C	GLN	X	172	33.245	52.189	38.042	0.00	0.00
ATOM	2645	O	GLN	X	172	32.534	51.869	37.144	0.00	0.00
ATOM	2646	N	ARG	X	173	32.811	52.692	39.236	0.00	0.00
ATOM	2647	H	ARG	X	173	33.405	53.188	39.884	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.390	52.892	39.509	0.00	0.00
ATOM	2649	HA	ARG	X	173	30.928	51.906	39.556	0.00	0.00
ATOM	2650	CB	ARG	X	173	31.240	53.459	40.897	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.824	52.910	41.637	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.483	54.515	41.013	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.765	53.387	41.388	0.00	0.00
ATOM	2654	HG2	ARG	X	173	29.119	54.000	40.759	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.406	52.358	41.405	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.631	53.946	42.785	0.00	0.00
ATOM	2657	HD2	ARG	X	173	30.034	54.959	42.765	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.576	54.063	43.034	0.00	0.00
ATOM	2659	NE	ARG	X	173	30.073	53.103	43.823	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.992	52.113	43.639	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.340	53.347	45.137	0.00	0.00
ATOM	2662	NH1	ARG	X	173	30.327	54.483	45.742	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.908	55.243	45.227	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.651	54.535	46.697	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.744	52.366	45.961	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.754	51.425	45.595	0.00	0.00
ATOM	2667	HH22	ARG	X	173	31.371	52.552	46.731	0.00	0.00
ATOM	2668	C	ARG	X	173	30.555	53.734	38.405	0.00	0.00
ATOM	2669	O	ARG	X	173	29.495	53.239	37.977	0.00	0.00
ATOM	2670	N	LEU	X	174	31.127	54.783	37.845	0.00	0.00
ATOM	2671	H	LEU	X	174	32.065	55.071	38.085	0.00	0.00

ATOM	2672	CA	LEU	X	174	30.534	55.550	36.728	0.00	0.00
ATOM	2673	HA	LEU	X	174	29.521	55.868	36.973	0.00	0.00
ATOM	2674	CB	LEU	X	174	31.312	56.891	36.648	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.016	57.403	37.563	0.00	0.00
ATOM	2676	HB3	LEU	X	174	32.379	56.679	36.713	0.00	0.00
ATOM	2677	CG	LEU	X	174	30.923	57.906	35.496	0.00	0.00
ATOM	2678	HG	LEU	X	174	30.858	57.322	34.578	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.612	58.669	35.684	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.309	59.325	34.869	0.00	0.00
ATOM	2681	HD12	LEU	X	174	29.593	59.229	36.619	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.880	57.878	35.848	0.00	0.00
ATOM	2683	CD2	LEU	X	174	32.031	58.883	35.277	0.00	0.00
ATOM	2684	HD21	LEU	X	174	31.859	59.499	34.394	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.989	59.568	36.124	0.00	0.00
ATOM	2686	HD23	LEU	X	174	32.963	58.333	35.147	0.00	0.00
ATOM	2687	C	LEU	X	174	30.523	54.748	35.391	0.00	0.00
ATOM	2688	O	LEU	X	174	29.685	55.051	34.550	0.00	0.00
ATOM	2689	N	ALA	X	175	31.428	53.850	35.220	0.00	0.00
ATOM	2690	H	ALA	X	175	32.112	53.777	35.959	0.00	0.00
ATOM	2691	CA	ALA	X	175	31.445	52.905	34.101	0.00	0.00
ATOM	2692	HA	ALA	X	175	31.093	53.400	33.196	0.00	0.00
ATOM	2693	CB	ALA	X	175	32.900	52.335	33.918	0.00	0.00
ATOM	2694	HB1	ALA	X	175	33.530	53.133	33.524	0.00	0.00
ATOM	2695	HB2	ALA	X	175	32.878	51.486	33.234	0.00	0.00
ATOM	2696	HB3	ALA	X	175	33.325	52.052	34.881	0.00	0.00
ATOM	2697	C	ALA	X	175	30.424	51.725	34.327	0.00	0.00
ATOM	2698	O	ALA	X	175	29.736	51.321	33.385	0.00	0.00
ATOM	2699	N	LEU	X	176	30.156	51.307	35.506	0.00	0.00
ATOM	2700	H	LEU	X	176	30.909	51.465	36.161	0.00	0.00
ATOM	2701	CA	LEU	X	176	29.043	50.437	35.843	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.108	49.677	35.065	0.00	0.00
ATOM	2703	CB	LEU	X	176	29.089	49.923	37.293	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.715	50.699	37.962	0.00	0.00
ATOM	2705	HB3	LEU	X	176	28.361	49.115	37.360	0.00	0.00
ATOM	2706	CG	LEU	X	176	30.462	49.325	37.791	0.00	0.00
ATOM	2707	HG	LEU	X	176	31.138	50.181	37.797	0.00	0.00
ATOM	2708	CD1	LEU	X	176	30.507	48.699	39.190	0.00	0.00
ATOM	2709	HD11	LEU	X	176	30.176	49.413	39.943	0.00	0.00
ATOM	2710	HD12	LEU	X	176	31.531	48.407	39.423	0.00	0.00
ATOM	2711	HD13	LEU	X	176	29.770	47.902	39.291	0.00	0.00
ATOM	2712	CD2	LEU	X	176	30.903	48.216	36.737	0.00	0.00
ATOM	2713	HD21	LEU	X	176	31.017	48.693	35.764	0.00	0.00
ATOM	2714	HD22	LEU	X	176	31.866	47.822	37.063	0.00	0.00
ATOM	2715	HD23	LEU	X	176	30.252	47.347	36.641	0.00	0.00
ATOM	2716	C	LEU	X	176	27.718	51.223	35.563	0.00	0.00
ATOM	2717	O	LEU	X	176	26.895	50.712	34.836	0.00	0.00
ATOM	2718	N	GLN	X	177	27.634	52.499	35.927	0.00	0.00
ATOM	2719	H	GLN	X	177	28.388	52.845	36.504	0.00	0.00
ATOM	2720	CA	GLN	X	177	26.510	53.399	35.539	0.00	0.00
ATOM	2721	HA	GLN	X	177	25.573	52.952	35.872	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.714	54.756	36.232	0.00	0.00
ATOM	2723	HB2	GLN	X	177	27.748	55.075	36.106	0.00	0.00
ATOM	2724	HB3	GLN	X	177	25.972	55.428	35.800	0.00	0.00
ATOM	2725	CG	GLN	X	177	26.510	54.746	37.742	0.00	0.00
ATOM	2726	HG2	GLN	X	177	25.589	54.348	38.168	0.00	0.00
ATOM	2727	HG3	GLN	X	177	27.314	54.094	38.081	0.00	0.00
ATOM	2728	CD	GLN	X	177	26.585	56.144	38.342	0.00	0.00
ATOM	2729	OE1	GLN	X	177	27.593	56.833	38.201	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.543	56.650	38.964	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.686	57.626	39.179	0.00	0.00
ATOM	2732	HE22	GLN	X	177	24.602	56.294	38.875	0.00	0.00
ATOM	2733	C	GLN	X	177	26.350	53.499	34.042	0.00	0.00
ATOM	2734	O	GLN	X	177	25.242	53.546	33.606	0.00	0.00
ATOM	2735	N	TRP	X	178	27.445	53.474	33.283	0.00	0.00
ATOM	2736	H	TRP	X	178	28.357	53.452	33.717	0.00	0.00
ATOM	2737	CA	TRP	X	178	27.469	53.671	31.824	0.00	0.00
ATOM	2738	HA	TRP	X	178	26.724	54.419	31.553	0.00	0.00

ATOM	2739	CB	TRP	X	178	28.830	54.149	31.370	0.00	0.00
ATOM	2740	HB2	TRP	X	178	29.043	55.023	31.986	0.00	0.00
ATOM	2741	HB3	TRP	X	178	29.596	53.417	31.623	0.00	0.00
ATOM	2742	CG	TRP	X	178	28.951	54.483	29.937	0.00	0.00
ATOM	2743	CD1	TRP	X	178	28.934	55.779	29.499	0.00	0.00
ATOM	2744	HD1	TRP	X	178	29.010	56.637	30.151	0.00	0.00
ATOM	2745	NE1	TRP	X	178	29.172	55.760	28.136	0.00	0.00
ATOM	2746	HE1	TRP	X	178	29.322	56.646	27.674	0.00	0.00
ATOM	2747	CE2	TRP	X	178	28.978	54.510	27.624	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	28.914	54.029	26.292	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	28.927	54.668	25.421	0.00	0.00
ATOM	2750	CH2	TRP	X	178	28.884	52.675	26.054	0.00	0.00
ATOM	2751	HH2	TRP	X	178	28.929	52.274	25.053	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	28.922	51.755	27.137	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	28.863	50.696	26.935	0.00	0.00
ATOM	2754	CE3	TRP	X	178	28.887	52.285	28.462	0.00	0.00
ATOM	2755	HE3	TRP	X	178	28.798	51.531	29.231	0.00	0.00
ATOM	2756	CD2	TRP	X	178	28.934	53.654	28.800	0.00	0.00
ATOM	2757	C	TRP	X	178	27.018	52.395	31.138	0.00	0.00
ATOM	2758	O	TRP	X	178	26.227	52.398	30.170	0.00	0.00
ATOM	2759	N	VAL	X	179	27.482	51.274	31.606	0.00	0.00
ATOM	2760	H	VAL	X	179	28.174	51.417	32.329	0.00	0.00
ATOM	2761	CA	VAL	X	179	27.129	49.902	31.165	0.00	0.00
ATOM	2762	HA	VAL	X	179	27.335	49.813	30.098	0.00	0.00
ATOM	2763	CB	VAL	X	179	28.081	48.896	31.817	0.00	0.00
ATOM	2764	HB	VAL	X	179	28.061	48.983	32.904	0.00	0.00
ATOM	2765	CG1	VAL	X	179	27.713	47.356	31.630	0.00	0.00
ATOM	2766	HG11	VAL	X	179	26.781	47.207	32.175	0.00	0.00
ATOM	2767	HG12	VAL	X	179	27.810	47.019	30.598	0.00	0.00
ATOM	2768	HG13	VAL	X	179	28.424	46.771	32.213	0.00	0.00
ATOM	2769	CG2	VAL	X	179	29.521	49.110	31.300	0.00	0.00
ATOM	2770	HG21	VAL	X	179	29.852	50.147	31.335	0.00	0.00
ATOM	2771	HG22	VAL	X	179	29.520	48.679	30.298	0.00	0.00
ATOM	2772	HG23	VAL	X	179	30.221	48.484	31.854	0.00	0.00
ATOM	2773	C	VAL	X	179	25.670	49.593	31.414	0.00	0.00
ATOM	2774	O	VAL	X	179	24.917	49.422	30.474	0.00	0.00
ATOM	2775	N	GLN	X	180	25.178	49.718	32.690	0.00	0.00
ATOM	2776	H	GLN	X	180	25.845	50.025	33.383	0.00	0.00
ATOM	2777	CA	GLN	X	180	23.745	49.749	33.010	0.00	0.00
ATOM	2778	HA	GLN	X	180	23.368	48.742	32.829	0.00	0.00
ATOM	2779	CB	GLN	X	180	23.544	50.091	34.536	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.047	49.308	35.104	0.00	0.00
ATOM	2781	HB3	GLN	X	180	24.027	51.045	34.745	0.00	0.00
ATOM	2782	CG	GLN	X	180	22.062	50.058	34.907	0.00	0.00
ATOM	2783	HG2	GLN	X	180	21.516	50.732	34.247	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.798	49.008	34.775	0.00	0.00
ATOM	2785	CD	GLN	X	180	21.759	50.292	36.323	0.00	0.00
ATOM	2786	OE1	GLN	X	180	21.379	51.326	36.767	0.00	0.00
ATOM	2787	NE2	GLN	X	180	22.020	49.331	37.208	0.00	0.00
ATOM	2788	HE21	GLN	X	180	21.827	49.459	38.191	0.00	0.00
ATOM	2789	HE22	GLN	X	180	22.345	48.453	36.830	0.00	0.00
ATOM	2790	C	GLN	X	180	22.985	50.726	32.081	0.00	0.00
ATOM	2791	O	GLN	X	180	21.928	50.310	31.634	0.00	0.00
ATOM	2792	N	GLU	X	181	23.584	51.887	31.797	0.00	0.00
ATOM	2793	H	GLU	X	181	24.439	52.194	32.239	0.00	0.00
ATOM	2794	CA	GLU	X	181	22.906	52.892	30.965	0.00	0.00
ATOM	2795	HA	GLU	X	181	21.839	52.922	31.185	0.00	0.00
ATOM	2796	CB	GLU	X	181	23.559	54.251	31.194	0.00	0.00
ATOM	2797	HB2	GLU	X	181	23.366	54.518	32.232	0.00	0.00
ATOM	2798	HB3	GLU	X	181	24.633	54.098	31.084	0.00	0.00
ATOM	2799	CG	GLU	X	181	23.092	55.370	30.332	0.00	0.00
ATOM	2800	HG2	GLU	X	181	23.361	55.367	29.276	0.00	0.00
ATOM	2801	HG3	GLU	X	181	22.014	55.297	30.188	0.00	0.00
ATOM	2802	CD	GLU	X	181	23.448	56.673	31.020	0.00	0.00
ATOM	2803	OE1	GLU	X	181	22.749	57.146	31.970	0.00	0.00
ATOM	2804	OE2	GLU	X	181	24.607	57.179	30.823	0.00	0.00
ATOM	2805	C	GLU	X	181	22.908	52.590	29.409	0.00	0.00

ATOM	2806	O	GLU	X	181	22.053	53.079	28.680	0.00	0.00
ATOM	2807	N	ASN	X	182	23.788	51.702	28.861	0.00	0.00
ATOM	2808	H	ASN	X	182	24.499	51.318	29.466	0.00	0.00
ATOM	2809	CA	ASN	X	182	24.050	51.566	27.377	0.00	0.00
ATOM	2810	HA	ASN	X	182	23.173	51.862	26.801	0.00	0.00
ATOM	2811	CB	ASN	X	182	25.170	52.534	26.894	0.00	0.00
ATOM	2812	HB2	ASN	X	182	25.999	52.325	27.569	0.00	0.00
ATOM	2813	HB3	ASN	X	182	25.499	52.243	25.896	0.00	0.00
ATOM	2814	CG	ASN	X	182	24.907	54.012	27.058	0.00	0.00
ATOM	2815	OD1	ASN	X	182	23.985	54.583	26.407	0.00	0.00
ATOM	2816	ND2	ASN	X	182	25.534	54.631	28.022	0.00	0.00
ATOM	2817	HD21	ASN	X	182	25.319	55.606	28.175	0.00	0.00
ATOM	2818	HD22	ASN	X	182	26.105	54.069	28.637	0.00	0.00
ATOM	2819	C	ASN	X	182	24.304	50.173	26.828	0.00	0.00
ATOM	2820	O	ASN	X	182	24.322	50.053	25.589	0.00	0.00
ATOM	2821	N	VAL	X	183	24.380	49.097	27.643	0.00	0.00
ATOM	2822	H	VAL	X	183	24.461	49.330	28.622	0.00	0.00
ATOM	2823	CA	VAL	X	183	24.890	47.783	27.193	0.00	0.00
ATOM	2824	HA	VAL	X	183	25.799	48.017	26.639	0.00	0.00
ATOM	2825	CB	VAL	X	183	25.470	46.951	28.343	0.00	0.00
ATOM	2826	HB	VAL	X	183	26.067	47.685	28.883	0.00	0.00
ATOM	2827	CG1	VAL	X	183	24.384	46.429	29.292	0.00	0.00
ATOM	2828	HG11	VAL	X	183	24.804	45.998	30.201	0.00	0.00
ATOM	2829	HG12	VAL	X	183	23.854	47.287	29.706	0.00	0.00
ATOM	2830	HG13	VAL	X	183	23.712	45.758	28.757	0.00	0.00
ATOM	2831	CG2	VAL	X	183	26.561	45.950	27.839	0.00	0.00
ATOM	2832	HG21	VAL	X	183	27.377	46.442	27.311	0.00	0.00
ATOM	2833	HG22	VAL	X	183	26.129	45.185	27.193	0.00	0.00
ATOM	2834	HG23	VAL	X	183	26.995	45.475	28.719	0.00	0.00
ATOM	2835	C	VAL	X	183	23.883	47.111	26.316	0.00	0.00
ATOM	2836	O	VAL	X	183	24.289	46.393	25.413	0.00	0.00
ATOM	2837	N	ALA	X	184	22.559	47.413	26.367	0.00	0.00
ATOM	2838	H	ALA	X	184	22.170	47.941	27.134	0.00	0.00
ATOM	2839	CA	ALA	X	184	21.612	47.019	25.326	0.00	0.00
ATOM	2840	HA	ALA	X	184	21.541	45.932	25.366	0.00	0.00
ATOM	2841	CB	ALA	X	184	20.338	47.774	25.655	0.00	0.00
ATOM	2842	HB1	ALA	X	184	19.565	47.381	24.994	0.00	0.00
ATOM	2843	HB2	ALA	X	184	20.391	48.847	25.470	0.00	0.00
ATOM	2844	HB3	ALA	X	184	20.065	47.655	26.703	0.00	0.00
ATOM	2845	C	ALA	X	184	21.956	47.313	23.892	0.00	0.00
ATOM	2846	O	ALA	X	184	21.703	46.530	23.006	0.00	0.00
ATOM	2847	N	ALA	X	185	22.735	48.389	23.672	0.00	0.00
ATOM	2848	H	ALA	X	185	22.999	48.909	24.497	0.00	0.00
ATOM	2849	CA	ALA	X	185	23.183	48.805	22.351	0.00	0.00
ATOM	2850	HA	ALA	X	185	22.280	48.899	21.749	0.00	0.00
ATOM	2851	CB	ALA	X	185	23.819	50.221	22.466	0.00	0.00
ATOM	2852	HB1	ALA	X	185	23.898	50.550	21.429	0.00	0.00
ATOM	2853	HB2	ALA	X	185	24.855	50.252	22.805	0.00	0.00
ATOM	2854	HB3	ALA	X	185	23.256	50.947	23.052	0.00	0.00
ATOM	2855	C	ALA	X	185	24.024	47.717	21.696	0.00	0.00
ATOM	2856	O	ALA	X	185	23.846	47.462	20.519	0.00	0.00
ATOM	2857	N	PHE	X	186	24.908	47.131	22.478	0.00	0.00
ATOM	2858	H	PHE	X	186	24.894	47.456	23.434	0.00	0.00
ATOM	2859	CA	PHE	X	186	25.791	46.063	22.105	0.00	0.00
ATOM	2860	HA	PHE	X	186	26.137	46.355	21.113	0.00	0.00
ATOM	2861	CB	PHE	X	186	26.996	46.159	23.082	0.00	0.00
ATOM	2862	HB2	PHE	X	186	26.661	46.015	24.110	0.00	0.00
ATOM	2863	HB3	PHE	X	186	27.675	45.310	23.008	0.00	0.00
ATOM	2864	CG	PHE	X	186	27.709	47.419	23.089	0.00	0.00
ATOM	2865	CD1	PHE	X	186	27.242	48.462	23.931	0.00	0.00
ATOM	2866	HD1	PHE	X	186	26.295	48.446	24.449	0.00	0.00
ATOM	2867	CE1	PHE	X	186	27.858	49.701	23.936	0.00	0.00
ATOM	2868	HE1	PHE	X	186	27.341	50.520	24.413	0.00	0.00
ATOM	2869	CZ	PHE	X	186	28.963	49.947	23.198	0.00	0.00
ATOM	2870	HZ	PHE	X	186	29.470	50.899	23.149	0.00	0.00
ATOM	2871	CE2	PHE	X	186	29.502	48.934	22.386	0.00	0.00
ATOM	2872	HE2	PHE	X	186	30.378	49.146	21.792	0.00	0.00

ATOM	2873	CD2	PHE	X	186	28.919	47.674	22.400	0.00	0.00
ATOM	2874	HD2	PHE	X	186	29.322	46.872	21.799	0.00	0.00
ATOM	2875	C	PHE	X	186	25.134	44.652	22.030	0.00	0.00
ATOM	2876	O	PHE	X	186	25.846	43.680	21.715	0.00	0.00
ATOM	2877	N	GLY	X	187	23.864	44.463	22.517	0.00	0.00
ATOM	2878	H	GLY	X	187	23.276	45.203	22.872	0.00	0.00
ATOM	2879	CA	GLY	X	187	23.215	43.176	22.636	0.00	0.00
ATOM	2880	HA2	GLY	X	187	22.162	43.347	22.410	0.00	0.00
ATOM	2881	HA3	GLY	X	187	23.689	42.512	21.912	0.00	0.00
ATOM	2882	C	GLY	X	187	23.441	42.243	23.879	0.00	0.00
ATOM	2883	O	GLY	X	187	22.757	41.225	23.988	0.00	0.00
ATOM	2884	N	GLY	X	188	24.221	42.758	24.845	0.00	0.00
ATOM	2885	H	GLY	X	188	24.680	43.648	24.716	0.00	0.00
ATOM	2886	CA	GLY	X	188	24.246	42.249	26.215	0.00	0.00
ATOM	2887	HA2	GLY	X	188	24.076	41.175	26.148	0.00	0.00
ATOM	2888	HA3	GLY	X	188	25.206	42.548	26.636	0.00	0.00
ATOM	2889	C	GLY	X	188	23.076	42.759	27.033	0.00	0.00
ATOM	2890	O	GLY	X	188	22.450	43.778	26.622	0.00	0.00
ATOM	2891	N	ASP	X	189	22.782	42.114	28.196	0.00	0.00
ATOM	2892	H	ASP	X	189	23.340	41.316	28.463	0.00	0.00
ATOM	2893	CA	ASP	X	189	21.584	42.490	29.022	0.00	0.00
ATOM	2894	HA	ASP	X	189	21.013	43.209	28.435	0.00	0.00
ATOM	2895	CB	ASP	X	189	20.724	41.260	29.271	0.00	0.00
ATOM	2896	HB2	ASP	X	189	20.573	40.724	28.334	0.00	0.00
ATOM	2897	HB3	ASP	X	189	21.225	40.474	29.836	0.00	0.00
ATOM	2898	CG	ASP	X	189	19.216	41.567	29.674	0.00	0.00
ATOM	2899	OD1	ASP	X	189	18.281	41.035	29.004	0.00	0.00
ATOM	2900	OD2	ASP	X	189	18.984	42.277	30.665	0.00	0.00
ATOM	2901	C	ASP	X	189	22.036	43.139	30.286	0.00	0.00
ATOM	2902	O	ASP	X	189	22.890	42.556	30.954	0.00	0.00
ATOM	2903	N	PRO	X	190	21.531	44.362	30.603	0.00	0.00
ATOM	2904	CD	PRO	X	190	20.540	45.060	29.851	0.00	0.00
ATOM	2905	HD2	PRO	X	190	19.742	44.328	29.734	0.00	0.00
ATOM	2906	HD3	PRO	X	190	20.947	45.374	28.890	0.00	0.00
ATOM	2907	CG	PRO	X	190	20.150	46.225	30.654	0.00	0.00
ATOM	2908	HG2	PRO	X	190	19.259	46.002	31.241	0.00	0.00
ATOM	2909	HG3	PRO	X	190	19.911	47.079	30.021	0.00	0.00
ATOM	2910	CB	PRO	X	190	21.298	46.554	31.564	0.00	0.00
ATOM	2911	HB2	PRO	X	190	21.077	47.076	32.496	0.00	0.00
ATOM	2912	HB3	PRO	X	190	22.066	47.133	31.051	0.00	0.00
ATOM	2913	CA	PRO	X	190	21.869	45.164	31.746	0.00	0.00
ATOM	2914	HA	PRO	X	190	22.945	45.159	31.922	0.00	0.00
ATOM	2915	C	PRO	X	190	21.339	44.571	33.070	0.00	0.00
ATOM	2916	O	PRO	X	190	21.785	44.984	34.171	0.00	0.00
ATOM	2917	N	THR	X	191	20.318	43.660	33.051	0.00	0.00
ATOM	2918	H	THR	X	191	19.947	43.468	32.132	0.00	0.00
ATOM	2919	CA	THR	X	191	19.778	42.837	34.092	0.00	0.00
ATOM	2920	HA	THR	X	191	19.926	43.436	34.990	0.00	0.00
ATOM	2921	CB	THR	X	191	18.266	42.519	33.955	0.00	0.00
ATOM	2922	HB	THR	X	191	17.924	42.116	34.908	0.00	0.00
ATOM	2923	CG2	THR	X	191	17.513	43.864	33.750	0.00	0.00
ATOM	2924	HG21	THR	X	191	16.440	43.778	33.920	0.00	0.00
ATOM	2925	HG22	THR	X	191	17.720	44.263	32.757	0.00	0.00
ATOM	2926	HG23	THR	X	191	17.829	44.575	34.514	0.00	0.00
ATOM	2927	OG1	THR	X	191	17.881	41.631	32.960	0.00	0.00
ATOM	2928	HG1	THR	X	191	18.305	41.953	32.160	0.00	0.00
ATOM	2929	C	THR	X	191	20.556	41.610	34.404	0.00	0.00
ATOM	2930	O	THR	X	191	20.315	40.841	35.318	0.00	0.00
ATOM	2931	N	SER	X	192	21.632	41.394	33.654	0.00	0.00
ATOM	2932	H	SER	X	192	21.863	41.955	32.846	0.00	0.00
ATOM	2933	CA	SER	X	192	22.512	40.212	33.861	0.00	0.00
ATOM	2934	HA	SER	X	192	22.266	39.764	34.824	0.00	0.00
ATOM	2935	CB	SER	X	192	22.077	39.203	32.767	0.00	0.00
ATOM	2936	HB2	SER	X	192	22.098	39.739	31.817	0.00	0.00
ATOM	2937	HB3	SER	X	192	22.714	38.323	32.674	0.00	0.00
ATOM	2938	OG	SER	X	192	20.791	38.795	33.016	0.00	0.00
ATOM	2939	HG	SER	X	192	20.539	38.580	32.114	0.00	0.00

ATOM	2940	C	SER	X	192	23.975	40.567	33.941	0.00	0.00
ATOM	2941	O	SER	X	192	24.847	39.877	33.359	0.00	0.00
ATOM	2942	N	VAL	X	193	24.341	41.651	34.602	0.00	0.00
ATOM	2943	H	VAL	X	193	23.721	42.114	35.252	0.00	0.00
ATOM	2944	CA	VAL	X	193	25.703	42.159	34.724	0.00	0.00
ATOM	2945	HA	VAL	X	193	26.229	41.970	33.787	0.00	0.00
ATOM	2946	CB	VAL	X	193	25.805	43.643	34.939	0.00	0.00
ATOM	2947	HB	VAL	X	193	25.435	43.888	35.935	0.00	0.00
ATOM	2948	CG1	VAL	X	193	27.318	44.110	34.890	0.00	0.00
ATOM	2949	HG11	VAL	X	193	27.339	45.145	34.550	0.00	0.00
ATOM	2950	HG12	VAL	X	193	27.817	43.883	35.833	0.00	0.00
ATOM	2951	HG13	VAL	X	193	27.830	43.571	34.093	0.00	0.00
ATOM	2952	CG2	VAL	X	193	25.007	44.458	33.998	0.00	0.00
ATOM	2953	HG21	VAL	X	193	23.978	44.279	34.308	0.00	0.00
ATOM	2954	HG22	VAL	X	193	25.177	44.158	32.964	0.00	0.00
ATOM	2955	HG23	VAL	X	193	25.152	45.535	34.087	0.00	0.00
ATOM	2956	C	VAL	X	193	26.469	41.438	35.835	0.00	0.00
ATOM	2957	O	VAL	X	193	25.998	41.282	36.897	0.00	0.00
ATOM	2958	N	THR	X	194	27.669	40.975	35.505	0.00	0.00
ATOM	2959	H	THR	X	194	27.973	41.126	34.554	0.00	0.00
ATOM	2960	CA	THR	X	194	28.653	40.269	36.357	0.00	0.00
ATOM	2961	HA	THR	X	194	28.305	40.266	37.390	0.00	0.00
ATOM	2962	CB	THR	X	194	28.941	38.850	35.849	0.00	0.00
ATOM	2963	HB	THR	X	194	29.027	38.841	34.763	0.00	0.00
ATOM	2964	CG2	THR	X	194	30.201	38.099	36.404	0.00	0.00
ATOM	2965	HG21	THR	X	194	30.144	37.826	37.458	0.00	0.00
ATOM	2966	HG22	THR	X	194	31.027	38.809	36.372	0.00	0.00
ATOM	2967	HG23	THR	X	194	30.495	37.224	35.825	0.00	0.00
ATOM	2968	OG1	THR	X	194	27.995	37.946	36.224	0.00	0.00
ATOM	2969	HG1	THR	X	194	27.148	38.171	35.833	0.00	0.00
ATOM	2970	C	THR	X	194	29.942	41.072	36.414	0.00	0.00
ATOM	2971	O	THR	X	194	30.494	41.341	35.356	0.00	0.00
ATOM	2972	N	LEU	X	195	30.474	41.405	37.622	0.00	0.00
ATOM	2973	H	LEU	X	195	30.017	40.992	38.423	0.00	0.00
ATOM	2974	CA	LEU	X	195	31.850	41.982	37.797	0.00	0.00
ATOM	2975	HA	LEU	X	195	32.064	42.522	36.875	0.00	0.00
ATOM	2976	CB	LEU	X	195	31.881	42.903	39.071	0.00	0.00
ATOM	2977	HB2	LEU	X	195	31.908	42.265	39.955	0.00	0.00
ATOM	2978	HB3	LEU	X	195	32.892	43.302	38.990	0.00	0.00
ATOM	2979	CG	LEU	X	195	30.850	44.025	39.193	0.00	0.00
ATOM	2980	HG	LEU	X	195	29.926	43.527	39.487	0.00	0.00
ATOM	2981	CD1	LEU	X	195	31.388	45.096	40.134	0.00	0.00
ATOM	2982	HD11	LEU	X	195	31.752	44.592	41.029	0.00	0.00
ATOM	2983	HD12	LEU	X	195	30.565	45.732	40.460	0.00	0.00
ATOM	2984	HD13	LEU	X	195	32.110	45.730	39.620	0.00	0.00
ATOM	2985	CD2	LEU	X	195	30.611	44.627	37.827	0.00	0.00
ATOM	2986	HD21	LEU	X	195	29.924	45.466	37.940	0.00	0.00
ATOM	2987	HD22	LEU	X	195	31.537	44.975	37.371	0.00	0.00
ATOM	2988	HD23	LEU	X	195	30.170	43.950	37.095	0.00	0.00
ATOM	2989	C	LEU	X	195	32.967	40.899	37.924	0.00	0.00
ATOM	2990	O	LEU	X	195	32.554	39.849	38.383	0.00	0.00
ATOM	2991	N	PHE	X	196	34.250	41.194	37.602	0.00	0.00
ATOM	2992	H	PHE	X	196	34.567	42.117	37.340	0.00	0.00
ATOM	2993	CA	PHE	X	196	35.205	40.133	37.265	0.00	0.00
ATOM	2994	HA	PHE	X	196	35.173	39.295	37.962	0.00	0.00
ATOM	2995	CB	PHE	X	196	34.739	39.636	35.798	0.00	0.00
ATOM	2996	HB2	PHE	X	196	33.729	39.227	35.781	0.00	0.00
ATOM	2997	HB3	PHE	X	196	34.675	40.466	35.095	0.00	0.00
ATOM	2998	CG	PHE	X	196	35.578	38.567	35.105	0.00	0.00
ATOM	2999	CD1	PHE	X	196	35.512	38.580	33.728	0.00	0.00
ATOM	3000	HD1	PHE	X	196	34.851	39.298	33.268	0.00	0.00
ATOM	3001	CE1	PHE	X	196	36.188	37.558	33.007	0.00	0.00
ATOM	3002	HE1	PHE	X	196	36.173	37.537	31.927	0.00	0.00
ATOM	3003	CZ	PHE	X	196	36.912	36.655	33.684	0.00	0.00
ATOM	3004	HZ	PHE	X	196	37.471	35.894	33.159	0.00	0.00
ATOM	3005	CE2	PHE	X	196	36.952	36.624	35.111	0.00	0.00
ATOM	3006	HE2	PHE	X	196	37.438	35.818	35.640	0.00	0.00

ATOM	3007	CD2	PHE	X	196	36.230	37.549	35.809	0.00	0.00
ATOM	3008	HD2	PHE	X	196	36.270	37.553	36.888	0.00	0.00
ATOM	3009	C	PHE	X	196	36.646	40.778	37.253	0.00	0.00
ATOM	3010	O	PHE	X	196	36.898	41.820	36.628	0.00	0.00
ATOM	3011	N	GLY	X	197	37.556	40.167	38.017	0.00	0.00
ATOM	3012	H	GLY	X	197	37.317	39.348	38.558	0.00	0.00
ATOM	3013	CA	GLY	X	197	38.978	40.569	37.996	0.00	0.00
ATOM	3014	HA2	GLY	X	197	39.426	40.753	37.019	0.00	0.00
ATOM	3015	HA3	GLY	X	197	39.159	41.438	38.628	0.00	0.00
ATOM	3016	C	GLY	X	197	39.996	39.602	38.568	0.00	0.00
ATOM	3017	O	GLY	X	197	39.595	38.864	39.437	0.00	0.00
ATOM	3018	N	GLU	X	198	41.261	39.953	38.367	0.00	0.00
ATOM	3019	H	GLU	X	198	41.286	40.759	37.758	0.00	0.00
ATOM	3020	CA	GLU	X	198	42.389	39.334	39.118	0.00	0.00
ATOM	3021	HA	GLU	X	198	42.009	38.556	39.781	0.00	0.00
ATOM	3022	CB	GLU	X	198	43.405	38.482	38.374	0.00	0.00
ATOM	3023	HB2	GLU	X	198	44.205	38.270	39.083	0.00	0.00
ATOM	3024	HB3	GLU	X	198	43.034	37.487	38.128	0.00	0.00
ATOM	3025	CG	GLU	X	198	44.053	39.144	37.213	0.00	0.00
ATOM	3026	HG2	GLU	X	198	44.687	38.352	36.814	0.00	0.00
ATOM	3027	HG3	GLU	X	198	43.259	39.466	36.539	0.00	0.00
ATOM	3028	CD	GLU	X	198	45.007	40.396	37.556	0.00	0.00
ATOM	3029	OE1	GLU	X	198	44.752	41.371	36.814	0.00	0.00
ATOM	3030	OE2	GLU	X	198	45.870	40.212	38.417	0.00	0.00
ATOM	3031	C	GLU	X	198	43.015	40.308	40.126	0.00	0.00
ATOM	3032	O	GLU	X	198	42.989	41.488	39.916	0.00	0.00
ATOM	3033	N	XA1	X	199	43.552	39.766	41.228	0.00	0.00
ATOM	3034	CA	XA1	X	199	44.531	40.463	42.154	0.00	0.00
ATOM	3035	C	XA1	X	199	43.942	41.738	42.769	0.00	0.00
ATOM	3036	O	XA1	X	199	42.916	41.787	43.484	0.00	0.00
ATOM	3037	CB	XA1	X	199	45.882	40.750	41.513	0.00	0.00
ATOM	3038	OG	XA1	X	199	46.809	41.167	42.530	0.00	0.00
ATOM	3039	P1	XA1	X	199	47.917	42.262	42.160	0.00	0.00
ATOM	3040	O1	XA1	X	199	47.368	43.256	41.363	0.00	0.00
ATOM	3041	O2	XA1	X	199	49.081	41.645	41.529	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.338	42.832	43.838	0.00	0.00
ATOM	3043	H	XA1	X	199	43.521	38.757	41.204	0.00	0.00
ATOM	3044	HA	XA1	X	199	44.686	39.700	42.917	0.00	0.00
ATOM	3045	HB2	XA1	X	199	46.261	39.903	40.936	0.00	0.00
ATOM	3046	HB3	XA1	X	199	45.666	41.549	40.800	0.00	0.00
ATOM	3047	H11	XA1	X	199	47.582	43.586	44.066	0.00	0.00
ATOM	3048	H12	XA1	X	199	48.284	42.108	44.654	0.00	0.00
ATOM	3049	H13	XA1	X	199	49.339	43.266	43.784	0.00	0.00
ATOM	3050	N	ALA	X	200	44.554	42.900	42.386	0.00	0.00
ATOM	3051	H	ALA	X	200	45.402	42.814	41.844	0.00	0.00
ATOM	3052	CA	ALA	X	200	44.012	44.205	42.736	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.958	44.266	43.823	0.00	0.00
ATOM	3054	CB	ALA	X	200	45.028	45.256	42.374	0.00	0.00
ATOM	3055	HB1	ALA	X	200	45.371	45.146	41.345	0.00	0.00
ATOM	3056	HB2	ALA	X	200	45.873	45.094	43.043	0.00	0.00
ATOM	3057	HB3	ALA	X	200	44.666	46.266	42.566	0.00	0.00
ATOM	3058	C	ALA	X	200	42.640	44.557	42.113	0.00	0.00
ATOM	3059	O	ALA	X	200	41.842	45.275	42.687	0.00	0.00
ATOM	3060	N	GLY	X	201	42.336	43.984	40.922	0.00	0.00
ATOM	3061	H	GLY	X	201	42.990	43.346	40.490	0.00	0.00
ATOM	3062	CA	GLY	X	201	40.939	43.955	40.375	0.00	0.00
ATOM	3063	HA2	GLY	X	201	40.556	44.976	40.364	0.00	0.00
ATOM	3064	HA3	GLY	X	201	41.049	43.629	39.340	0.00	0.00
ATOM	3065	C	GLY	X	201	39.986	43.046	41.117	0.00	0.00
ATOM	3066	O	GLY	X	201	38.865	43.422	41.411	0.00	0.00
ATOM	3067	N	ALA	X	202	40.502	41.889	41.554	0.00	0.00
ATOM	3068	H	ALA	X	202	41.502	41.758	41.504	0.00	0.00
ATOM	3069	CA	ALA	X	202	39.677	41.008	42.281	0.00	0.00
ATOM	3070	HA	ALA	X	202	38.687	40.788	41.883	0.00	0.00
ATOM	3071	CB	ALA	X	202	40.515	39.728	42.621	0.00	0.00
ATOM	3072	HB1	ALA	X	202	40.730	39.183	41.702	0.00	0.00
ATOM	3073	HB2	ALA	X	202	39.892	39.068	43.225	0.00	0.00

ATOM	3074	HB3	ALA	X	202	41.504	39.747	43.078	0.00	0.00
ATOM	3075	C	ALA	X	202	39.364	41.687	43.663	0.00	0.00
ATOM	3076	O	ALA	X	202	38.185	41.787	44.000	0.00	0.00
ATOM	3077	N	ALA	X	203	40.334	42.285	44.350	0.00	0.00
ATOM	3078	H	ALA	X	203	41.287	42.165	44.037	0.00	0.00
ATOM	3079	CA	ALA	X	203	40.046	43.073	45.558	0.00	0.00
ATOM	3080	HA	ALA	X	203	39.540	42.370	46.219	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.436	43.414	46.108	0.00	0.00
ATOM	3082	HB1	ALA	X	203	42.002	44.014	45.396	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.968	42.485	46.314	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.350	43.934	47.062	0.00	0.00
ATOM	3085	C	ALA	X	203	39.140	44.279	45.327	0.00	0.00
ATOM	3086	O	ALA	X	203	38.223	44.559	46.050	0.00	0.00
ATOM	3087	N	SER	X	204	39.327	45.013	44.296	0.00	0.00
ATOM	3088	H	SER	X	204	40.157	44.747	43.785	0.00	0.00
ATOM	3089	CA	SER	X	204	38.526	46.073	43.738	0.00	0.00
ATOM	3090	HA	SER	X	204	38.491	46.886	44.464	0.00	0.00
ATOM	3091	CB	SER	X	204	39.038	46.659	42.377	0.00	0.00
ATOM	3092	HB2	SER	X	204	39.199	45.759	41.784	0.00	0.00
ATOM	3093	HB3	SER	X	204	38.371	47.422	41.976	0.00	0.00
ATOM	3094	OG	SER	X	204	40.285	47.355	42.384	0.00	0.00
ATOM	3095	HG	SER	X	204	40.996	46.711	42.427	0.00	0.00
ATOM	3096	C	SER	X	204	37.079	45.662	43.557	0.00	0.00
ATOM	3097	O	SER	X	204	36.226	46.388	43.999	0.00	0.00
ATOM	3098	N	VAL	X	205	36.826	44.503	42.978	0.00	0.00
ATOM	3099	H	VAL	X	205	37.641	43.973	42.703	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.549	43.786	42.761	0.00	0.00
ATOM	3101	HA	VAL	X	205	34.802	44.426	42.290	0.00	0.00
ATOM	3102	CB	VAL	X	205	35.760	42.540	41.919	0.00	0.00
ATOM	3103	HB	VAL	X	205	36.620	41.974	42.277	0.00	0.00
ATOM	3104	CG1	VAL	X	205	34.427	41.755	41.901	0.00	0.00
ATOM	3105	HG11	VAL	X	205	34.113	41.471	42.904	0.00	0.00
ATOM	3106	HG12	VAL	X	205	33.637	42.340	41.429	0.00	0.00
ATOM	3107	HG13	VAL	X	205	34.596	40.888	41.262	0.00	0.00
ATOM	3108	CG2	VAL	X	205	35.956	42.925	40.436	0.00	0.00
ATOM	3109	HG21	VAL	X	205	36.253	41.993	39.956	0.00	0.00
ATOM	3110	HG22	VAL	X	205	36.687	43.726	40.322	0.00	0.00
ATOM	3111	HG23	VAL	X	205	35.024	43.170	39.926	0.00	0.00
ATOM	3112	C	VAL	X	205	34.927	43.518	44.105	0.00	0.00
ATOM	3113	O	VAL	X	205	33.728	43.703	44.325	0.00	0.00
ATOM	3114	N	GLY	X	206	35.714	43.277	45.133	0.00	0.00
ATOM	3115	H	GLY	X	206	36.691	43.227	44.880	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.234	43.149	46.456	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.240	42.703	46.415	0.00	0.00
ATOM	3118	HA3	GLY	X	206	35.877	42.562	47.113	0.00	0.00
ATOM	3119	C	GLY	X	206	35.145	44.497	47.239	0.00	0.00
ATOM	3120	O	GLY	X	206	34.449	44.409	48.241	0.00	0.00
ATOM	3121	N	MET	X	207	35.671	45.604	46.757	0.00	0.00
ATOM	3122	H	MET	X	207	36.202	45.613	45.897	0.00	0.00
ATOM	3123	CA	MET	X	207	35.190	46.895	47.284	0.00	0.00
ATOM	3124	HA	MET	X	207	35.142	46.904	48.373	0.00	0.00
ATOM	3125	CB	MET	X	207	36.148	48.068	46.951	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.184	48.270	45.881	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.873	49.014	47.416	0.00	0.00
ATOM	3128	CG	MET	X	207	37.563	47.576	47.396	0.00	0.00
ATOM	3129	HG2	MET	X	207	37.992	46.735	46.851	0.00	0.00
ATOM	3130	HG3	MET	X	207	38.271	48.369	47.153	0.00	0.00
ATOM	3131	SD	MET	X	207	37.740	47.186	49.096	0.00	0.00
ATOM	3132	CE	MET	X	207	39.551	46.848	49.186	0.00	0.00
ATOM	3133	HE1	MET	X	207	39.828	46.889	50.239	0.00	0.00
ATOM	3134	HE2	MET	X	207	39.749	45.890	48.705	0.00	0.00
ATOM	3135	HE3	MET	X	207	40.103	47.604	48.627	0.00	0.00
ATOM	3136	C	MET	X	207	33.698	47.193	46.838	0.00	0.00
ATOM	3137	O	MET	X	207	32.790	47.625	47.570	0.00	0.00
ATOM	3138	N	HIE	X	208	33.404	46.938	45.576	0.00	0.00
ATOM	3139	H	HIE	X	208	34.123	46.680	44.915	0.00	0.00
ATOM	3140	CA	HIE	X	208	32.056	46.937	44.994	0.00	0.00

ATOM	3141	HA	HIE	X	208	31.777	47.988	45.071	0.00	0.00
ATOM	3142	CB	HIE	X	208	32.099	46.605	43.524	0.00	0.00
ATOM	3143	HB2	HIE	X	208	32.499	45.614	43.311	0.00	0.00
ATOM	3144	HB3	HIE	X	208	31.140	46.602	43.007	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.869	47.673	42.812	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.608	49.087	42.737	0.00	0.00
ATOM	3147	CE1	HIE	X	208	33.512	49.526	41.820	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.550	50.556	41.498	0.00	0.00
ATOM	3149	NE2	HIE	X	208	34.313	48.539	41.428	0.00	0.00
ATOM	3150	HE2	HIE	X	208	35.134	48.587	40.840	0.00	0.00
ATOM	3151	CD2	HIE	X	208	33.976	47.358	42.082	0.00	0.00
ATOM	3152	HD2	HIE	X	208	34.540	46.442	41.989	0.00	0.00
ATOM	3153	C	HIE	X	208	31.028	46.101	45.792	0.00	0.00
ATOM	3154	O	HIE	X	208	29.841	46.397	45.889	0.00	0.00
ATOM	3155	N	LEU	X	209	31.499	44.969	46.255	0.00	0.00
ATOM	3156	H	LEU	X	209	32.417	44.773	45.882	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.696	43.997	46.985	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.744	43.812	46.487	0.00	0.00
ATOM	3159	CB	LEU	X	209	31.538	42.694	47.037	0.00	0.00
ATOM	3160	HB2	LEU	X	209	31.837	42.460	46.015	0.00	0.00
ATOM	3161	HB3	LEU	X	209	32.461	42.920	47.571	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.796	41.475	47.704	0.00	0.00
ATOM	3163	HG	LEU	X	209	30.350	41.819	48.637	0.00	0.00
ATOM	3164	CD1	LEU	X	209	29.676	40.979	46.887	0.00	0.00
ATOM	3165	HD11	LEU	X	209	30.080	40.736	45.904	0.00	0.00
ATOM	3166	HD12	LEU	X	209	28.891	41.732	46.950	0.00	0.00
ATOM	3167	HD13	LEU	X	209	29.374	39.995	47.246	0.00	0.00
ATOM	3168	CD2	LEU	X	209	31.766	40.300	47.889	0.00	0.00
ATOM	3169	HD21	LEU	X	209	32.223	39.978	46.953	0.00	0.00
ATOM	3170	HD22	LEU	X	209	32.533	40.621	48.593	0.00	0.00
ATOM	3171	HD23	LEU	X	209	31.191	39.531	48.406	0.00	0.00
ATOM	3172	C	LEU	X	209	30.388	44.618	48.407	0.00	0.00
ATOM	3173	O	LEU	X	209	29.289	44.456	48.834	0.00	0.00
ATOM	3174	N	LEU	X	210	31.341	45.341	49.008	0.00	0.00
ATOM	3175	H	LEU	X	210	32.221	45.413	48.518	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.227	45.891	50.326	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.476	45.354	50.904	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.613	45.634	50.946	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.456	45.703	50.258	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.798	46.464	51.627	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.659	44.309	51.676	0.00	0.00
ATOM	3182	HG	LEU	X	210	31.787	44.355	52.328	0.00	0.00
ATOM	3183	CD1	LEU	X	210	32.467	43.120	50.764	0.00	0.00
ATOM	3184	HD11	LEU	X	210	32.733	42.233	51.338	0.00	0.00
ATOM	3185	HD12	LEU	X	210	33.153	43.193	49.919	0.00	0.00
ATOM	3186	HD13	LEU	X	210	31.442	42.989	50.418	0.00	0.00
ATOM	3187	CD2	LEU	X	210	33.925	44.263	52.542	0.00	0.00
ATOM	3188	HD21	LEU	X	210	34.230	45.260	52.859	0.00	0.00
ATOM	3189	HD22	LEU	X	210	33.747	43.663	53.434	0.00	0.00
ATOM	3190	HD23	LEU	X	210	34.713	43.759	51.983	0.00	0.00
ATOM	3191	C	LEU	X	210	30.746	47.382	50.344	0.00	0.00
ATOM	3192	O	LEU	X	210	30.376	47.888	51.444	0.00	0.00
ATOM	3193	N	SER	X	211	30.578	48.067	49.234	0.00	0.00
ATOM	3194	H	SER	X	211	30.834	47.534	48.416	0.00	0.00
ATOM	3195	CA	SER	X	211	30.106	49.474	49.216	0.00	0.00
ATOM	3196	HA	SER	X	211	30.076	49.964	50.189	0.00	0.00
ATOM	3197	CB	SER	X	211	31.200	50.305	48.538	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.731	51.289	48.548	0.00	0.00
ATOM	3199	HB3	SER	X	211	32.102	50.357	49.148	0.00	0.00
ATOM	3200	OG	SER	X	211	31.554	49.805	47.210	0.00	0.00
ATOM	3201	HG	SER	X	211	32.072	49.040	47.473	0.00	0.00
ATOM	3202	C	SER	X	211	28.743	49.450	48.509	0.00	0.00
ATOM	3203	O	SER	X	211	28.629	49.150	47.344	0.00	0.00
ATOM	3204	N	PRO	X	212	27.611	49.721	49.219	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.495	50.182	50.562	0.00	0.00
ATOM	3206	HD2	PRO	X	212	27.921	51.185	50.531	0.00	0.00
ATOM	3207	HD3	PRO	X	212	28.183	49.592	51.168	0.00	0.00

ATOM	3208	CG	PRO	X	212	26.062	50.099	51.039	0.00	0.00
ATOM	3209	HG2	PRO	X	212	25.783	50.923	51.695	0.00	0.00
ATOM	3210	HG3	PRO	X	212	25.877	49.163	51.564	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.273	49.930	49.785	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.919	50.911	49.467	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.426	49.258	49.924	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.275	49.531	48.663	0.00	0.00
ATOM	3215	HA	PRO	X	212	26.185	48.456	48.508	0.00	0.00
ATOM	3216	C	PRO	X	212	26.026	50.319	47.395	0.00	0.00
ATOM	3217	O	PRO	X	212	25.366	49.799	46.465	0.00	0.00
ATOM	3218	N	PRO	X	213	26.638	51.561	47.251	0.00	0.00
ATOM	3219	CD	PRO	X	213	27.373	52.439	48.162	0.00	0.00
ATOM	3220	HD2	PRO	X	213	28.447	52.257	48.179	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.957	52.214	49.144	0.00	0.00
ATOM	3222	CG	PRO	X	213	27.111	53.883	47.803	0.00	0.00
ATOM	3223	HG2	PRO	X	213	27.867	54.663	47.897	0.00	0.00
ATOM	3224	HG3	PRO	X	213	26.211	54.253	48.295	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.763	53.740	46.316	0.00	0.00
ATOM	3226	HB2	PRO	X	213	27.623	54.004	45.701	0.00	0.00
ATOM	3227	HB3	PRO	X	213	25.987	54.427	45.979	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.378	52.325	46.026	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.290	52.288	45.966	0.00	0.00
ATOM	3230	C	PRO	X	213	26.994	51.674	44.770	0.00	0.00
ATOM	3231	O	PRO	X	213	26.870	52.241	43.688	0.00	0.00
ATOM	3232	N	SER	X	214	27.629	50.494	44.941	0.00	0.00
ATOM	3233	H	SER	X	214	27.781	50.063	45.841	0.00	0.00
ATOM	3234	CA	SER	X	214	27.936	49.577	43.837	0.00	0.00
ATOM	3235	HA	SER	X	214	27.880	50.150	42.912	0.00	0.00
ATOM	3236	CB	SER	X	214	29.364	49.149	43.847	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.652	48.415	44.600	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.482	48.684	42.868	0.00	0.00
ATOM	3239	OG	SER	X	214	30.252	50.257	43.891	0.00	0.00
ATOM	3240	HG	SER	X	214	31.135	50.041	43.581	0.00	0.00
ATOM	3241	C	SER	X	214	26.922	48.399	43.631	0.00	0.00
ATOM	3242	O	SER	X	214	26.675	48.194	42.490	0.00	0.00
ATOM	3243	N	ARG	X	215	26.347	47.735	44.687	0.00	0.00
ATOM	3244	H	ARG	X	215	26.615	47.970	45.632	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.566	46.534	44.422	0.00	0.00
ATOM	3246	HA	ARG	X	215	26.220	45.906	43.818	0.00	0.00
ATOM	3247	CB	ARG	X	215	25.342	45.789	45.732	0.00	0.00
ATOM	3248	HB2	ARG	X	215	24.641	46.329	46.368	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.849	44.859	45.447	0.00	0.00
ATOM	3250	CG	ARG	X	215	26.543	45.472	46.598	0.00	0.00
ATOM	3251	HG2	ARG	X	215	27.262	45.009	45.921	0.00	0.00
ATOM	3252	HG3	ARG	X	215	26.946	46.404	46.994	0.00	0.00
ATOM	3253	CD	ARG	X	215	26.251	44.532	47.803	0.00	0.00
ATOM	3254	HD2	ARG	X	215	25.817	43.612	47.410	0.00	0.00
ATOM	3255	HD3	ARG	X	215	27.263	44.241	48.086	0.00	0.00
ATOM	3256	NE	ARG	X	215	25.431	45.074	48.940	0.00	0.00
ATOM	3257	HE	ARG	X	215	24.428	44.961	48.911	0.00	0.00
ATOM	3258	CZ	ARG	X	215	25.847	45.692	49.996	0.00	0.00
ATOM	3259	NH1	ARG	X	215	27.108	45.780	50.355	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.788	45.403	49.711	0.00	0.00
ATOM	3261	HH12	ARG	X	215	27.262	46.195	51.263	0.00	0.00
ATOM	3262	NH2	ARG	X	215	25.008	46.256	50.881	0.00	0.00
ATOM	3263	HH21	ARG	X	215	24.035	45.986	50.890	0.00	0.00
ATOM	3264	HH22	ARG	X	215	25.311	46.783	51.688	0.00	0.00
ATOM	3265	C	ARG	X	215	24.236	46.660	43.636	0.00	0.00
ATOM	3266	O	ARG	X	215	23.650	45.645	43.272	0.00	0.00
ATOM	3267	N	GLY	X	216	23.797	47.846	43.342	0.00	0.00
ATOM	3268	H	GLY	X	216	24.348	48.595	43.736	0.00	0.00
ATOM	3269	CA	GLY	X	216	22.569	48.143	42.590	0.00	0.00
ATOM	3270	HA2	GLY	X	216	21.826	47.353	42.703	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.083	49.074	42.883	0.00	0.00
ATOM	3272	C	GLY	X	216	22.806	48.129	41.091	0.00	0.00
ATOM	3273	O	GLY	X	216	21.903	48.523	40.334	0.00	0.00
ATOM	3274	N	LEU	X	217	24.085	47.878	40.686	0.00	0.00

ATOM	3275	H	LEU	X	217	24.688	47.657	41.466	0.00	0.00
ATOM	3276	CA	LEU	X	217	24.645	47.958	39.337	0.00	0.00
ATOM	3277	HA	LEU	X	217	23.862	48.349	38.687	0.00	0.00
ATOM	3278	CB	LEU	X	217	25.790	48.950	39.227	0.00	0.00
ATOM	3279	HB2	LEU	X	217	26.710	48.463	39.551	0.00	0.00
ATOM	3280	HB3	LEU	X	217	25.932	49.177	38.171	0.00	0.00
ATOM	3281	CG	LEU	X	217	25.561	50.309	39.861	0.00	0.00
ATOM	3282	HG	LEU	X	217	25.347	50.101	40.909	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.837	51.200	39.852	0.00	0.00
ATOM	3284	HD11	LEU	X	217	26.769	52.109	40.450	0.00	0.00
ATOM	3285	HD12	LEU	X	217	27.025	51.433	38.804	0.00	0.00
ATOM	3286	HD13	LEU	X	217	27.729	50.658	40.164	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.422	51.051	39.181	0.00	0.00
ATOM	3288	HD21	LEU	X	217	23.437	50.631	39.385	0.00	0.00
ATOM	3289	HD22	LEU	X	217	24.342	52.003	39.705	0.00	0.00
ATOM	3290	HD23	LEU	X	217	24.613	51.292	38.135	0.00	0.00
ATOM	3291	C	LEU	X	217	25.031	46.629	38.734	0.00	0.00
ATOM	3292	O	LEU	X	217	25.282	46.554	37.512	0.00	0.00
ATOM	3293	N	PHE	X	218	25.224	45.646	39.580	0.00	0.00
ATOM	3294	H	PHE	X	218	24.811	45.680	40.501	0.00	0.00
ATOM	3295	CA	PHE	X	218	25.655	44.293	39.240	0.00	0.00
ATOM	3296	HA	PHE	X	218	25.225	44.131	38.252	0.00	0.00
ATOM	3297	CB	PHE	X	218	27.235	44.185	39.309	0.00	0.00
ATOM	3298	HB2	PHE	X	218	27.535	43.282	38.777	0.00	0.00
ATOM	3299	HB3	PHE	X	218	27.712	44.974	38.727	0.00	0.00
ATOM	3300	CG	PHE	X	218	27.754	44.242	40.719	0.00	0.00
ATOM	3301	CD1	PHE	X	218	28.066	45.485	41.232	0.00	0.00
ATOM	3302	HD1	PHE	X	218	27.962	46.411	40.685	0.00	0.00
ATOM	3303	CE1	PHE	X	218	28.675	45.548	42.514	0.00	0.00
ATOM	3304	HE1	PHE	X	218	28.881	46.532	42.909	0.00	0.00
ATOM	3305	CZ	PHE	X	218	28.906	44.329	43.243	0.00	0.00
ATOM	3306	HZ	PHE	X	218	29.307	44.291	44.246	0.00	0.00
ATOM	3307	CE2	PHE	X	218	28.528	43.085	42.768	0.00	0.00
ATOM	3308	HE2	PHE	X	218	28.797	42.145	43.227	0.00	0.00
ATOM	3309	CD2	PHE	X	218	27.992	43.019	41.473	0.00	0.00
ATOM	3310	HD2	PHE	X	218	27.719	42.037	41.116	0.00	0.00
ATOM	3311	C	PHE	X	218	24.941	43.286	40.175	0.00	0.00
ATOM	3312	O	PHE	X	218	24.580	43.568	41.329	0.00	0.00
ATOM	3313	N	HIE	X	219	24.720	42.083	39.620	0.00	0.00
ATOM	3314	H	HIE	X	219	24.912	42.005	38.632	0.00	0.00
ATOM	3315	CA	HIE	X	219	23.929	40.979	40.114	0.00	0.00
ATOM	3316	HA	HIE	X	219	23.365	41.313	40.985	0.00	0.00
ATOM	3317	CB	HIE	X	219	22.954	40.500	38.960	0.00	0.00
ATOM	3318	HB2	HIE	X	219	23.448	39.920	38.180	0.00	0.00
ATOM	3319	HB3	HIE	X	219	22.194	39.902	39.463	0.00	0.00
ATOM	3320	CG	HIE	X	219	22.182	41.565	38.273	0.00	0.00
ATOM	3321	ND1	HIE	X	219	22.626	42.245	37.092	0.00	0.00
ATOM	3322	CE1	HIE	X	219	21.851	43.374	37.049	0.00	0.00
ATOM	3323	HE1	HIE	X	219	22.036	44.247	36.441	0.00	0.00
ATOM	3324	NE2	HIE	X	219	20.909	43.335	38.014	0.00	0.00
ATOM	3325	HE2	HIE	X	219	20.244	44.052	38.267	0.00	0.00
ATOM	3326	CD2	HIE	X	219	21.142	42.256	38.841	0.00	0.00
ATOM	3327	HD2	HIE	X	219	20.722	42.101	39.824	0.00	0.00
ATOM	3328	C	HIE	X	219	24.800	39.862	40.712	0.00	0.00
ATOM	3329	O	HIE	X	219	24.239	38.946	41.280	0.00	0.00
ATOM	3330	N	ARG	X	220	26.113	39.877	40.413	0.00	0.00
ATOM	3331	H	ARG	X	220	26.444	40.721	39.968	0.00	0.00
ATOM	3332	CA	ARG	X	220	27.009	38.756	40.566	0.00	0.00
ATOM	3333	HA	ARG	X	220	26.881	38.360	41.573	0.00	0.00
ATOM	3334	CB	ARG	X	220	26.629	37.664	39.556	0.00	0.00
ATOM	3335	HB2	ARG	X	220	25.574	37.453	39.733	0.00	0.00
ATOM	3336	HB3	ARG	X	220	26.751	38.162	38.594	0.00	0.00
ATOM	3337	CG	ARG	X	220	27.444	36.343	39.669	0.00	0.00
ATOM	3338	HG2	ARG	X	220	28.461	36.434	39.288	0.00	0.00
ATOM	3339	HG3	ARG	X	220	27.429	35.980	40.697	0.00	0.00
ATOM	3340	CD	ARG	X	220	26.802	35.227	38.779	0.00	0.00
ATOM	3341	HD2	ARG	X	220	26.911	35.577	37.753	0.00	0.00

ATOM	3342	HD3	ARG	X	220	27.364	34.331	39.041	0.00	0.00
ATOM	3343	NE	ARG	X	220	25.397	34.998	39.090	0.00	0.00
ATOM	3344	HE	ARG	X	220	25.234	34.615	40.010	0.00	0.00
ATOM	3345	CZ	ARG	X	220	24.302	35.225	38.352	0.00	0.00
ATOM	3346	NH1	ARG	X	220	24.398	36.012	37.314	0.00	0.00
ATOM	3347	HH11	ARG	X	220	25.346	36.247	37.058	0.00	0.00
ATOM	3348	HH12	ARG	X	220	23.674	35.949	36.612	0.00	0.00
ATOM	3349	NH2	ARG	X	220	23.063	34.827	38.855	0.00	0.00
ATOM	3350	HH21	ARG	X	220	23.151	34.306	39.716	0.00	0.00
ATOM	3351	HH22	ARG	X	220	22.201	35.134	38.428	0.00	0.00
ATOM	3352	C	ARG	X	220	28.457	39.220	40.350	0.00	0.00
ATOM	3353	O	ARG	X	220	28.639	40.187	39.643	0.00	0.00
ATOM	3354	N	ALA	X	221	29.484	38.625	41.000	0.00	0.00
ATOM	3355	H	ALA	X	221	29.173	37.894	41.625	0.00	0.00
ATOM	3356	CA	ALA	X	221	30.880	39.102	41.080	0.00	0.00
ATOM	3357	HA	ALA	X	221	31.070	39.673	40.171	0.00	0.00
ATOM	3358	CB	ALA	X	221	31.036	39.926	42.293	0.00	0.00
ATOM	3359	HB1	ALA	X	221	30.885	39.211	43.102	0.00	0.00
ATOM	3360	HB2	ALA	X	221	30.246	40.677	42.274	0.00	0.00
ATOM	3361	HB3	ALA	X	221	32.021	40.388	42.359	0.00	0.00
ATOM	3362	C	ALA	X	221	31.854	37.794	41.052	0.00	0.00
ATOM	3363	O	ALA	X	221	31.481	36.702	41.463	0.00	0.00
ATOM	3364	N	VAL	X	222	33.121	38.001	40.552	0.00	0.00
ATOM	3365	H	VAL	X	222	33.292	38.882	40.090	0.00	0.00
ATOM	3366	CA	VAL	X	222	34.171	36.986	40.505	0.00	0.00
ATOM	3367	HA	VAL	X	222	34.029	36.104	41.129	0.00	0.00
ATOM	3368	CB	VAL	X	222	34.278	36.437	39.080	0.00	0.00
ATOM	3369	HB	VAL	X	222	34.549	37.236	38.390	0.00	0.00
ATOM	3370	CG1	VAL	X	222	35.497	35.465	38.931	0.00	0.00
ATOM	3371	HG11	VAL	X	222	35.443	34.987	37.953	0.00	0.00
ATOM	3372	HG12	VAL	X	222	36.486	35.915	39.025	0.00	0.00
ATOM	3373	HG13	VAL	X	222	35.564	34.819	39.806	0.00	0.00
ATOM	3374	CG2	VAL	X	222	33.018	35.682	38.642	0.00	0.00
ATOM	3375	HG21	VAL	X	222	33.206	35.194	37.685	0.00	0.00
ATOM	3376	HG22	VAL	X	222	32.144	36.329	38.567	0.00	0.00
ATOM	3377	HG23	VAL	X	222	32.845	34.890	39.370	0.00	0.00
ATOM	3378	C	VAL	X	222	35.430	37.701	40.875	0.00	0.00
ATOM	3379	O	VAL	X	222	35.797	38.702	40.278	0.00	0.00
ATOM	3380	N	LEU	X	223	36.149	37.111	41.851	0.00	0.00
ATOM	3381	H	LEU	X	223	35.610	36.449	42.390	0.00	0.00
ATOM	3382	CA	LEU	X	223	37.436	37.611	42.344	0.00	0.00
ATOM	3383	HA	LEU	X	223	37.761	38.480	41.772	0.00	0.00
ATOM	3384	CB	LEU	X	223	37.305	37.953	43.866	0.00	0.00
ATOM	3385	HB2	LEU	X	223	36.934	37.057	44.363	0.00	0.00
ATOM	3386	HB3	LEU	X	223	38.288	38.140	44.298	0.00	0.00
ATOM	3387	CG	LEU	X	223	36.300	39.113	44.195	0.00	0.00
ATOM	3388	HG	LEU	X	223	36.450	39.910	43.467	0.00	0.00
ATOM	3389	CD1	LEU	X	223	34.768	38.692	44.185	0.00	0.00
ATOM	3390	HD11	LEU	X	223	34.137	39.556	44.393	0.00	0.00
ATOM	3391	HD12	LEU	X	223	34.548	37.891	44.891	0.00	0.00
ATOM	3392	HD13	LEU	X	223	34.474	38.280	43.220	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.599	39.778	45.548	0.00	0.00
ATOM	3394	HD21	LEU	X	223	37.635	40.022	45.783	0.00	0.00
ATOM	3395	HD22	LEU	X	223	35.905	40.611	45.663	0.00	0.00
ATOM	3396	HD23	LEU	X	223	36.288	39.090	46.334	0.00	0.00
ATOM	3397	C	LEU	X	223	38.462	36.502	42.305	0.00	0.00
ATOM	3398	O	LEU	X	223	38.278	35.375	42.749	0.00	0.00
ATOM	3399	N	GLN	X	224	39.621	36.833	41.759	0.00	0.00
ATOM	3400	H	GLN	X	224	39.912	37.746	41.442	0.00	0.00
ATOM	3401	CA	GLN	X	224	40.690	35.826	41.536	0.00	0.00
ATOM	3402	HA	GLN	X	224	40.385	34.902	42.027	0.00	0.00
ATOM	3403	CB	GLN	X	224	40.793	35.524	39.995	0.00	0.00
ATOM	3404	HB2	GLN	X	224	41.236	36.394	39.509	0.00	0.00
ATOM	3405	HB3	GLN	X	224	41.630	34.826	39.978	0.00	0.00
ATOM	3406	CG	GLN	X	224	39.518	34.855	39.359	0.00	0.00
ATOM	3407	HG2	GLN	X	224	39.223	34.013	39.985	0.00	0.00
ATOM	3408	HG3	GLN	X	224	38.694	35.564	39.281	0.00	0.00

ATOM	3409	CD	GLN	X	224	39.673	34.350	37.962	0.00	0.00
ATOM	3410	OE1	GLN	X	224	39.057	34.799	37.004	0.00	0.00
ATOM	3411	NE2	GLN	X	224	40.582	33.473	37.697	0.00	0.00
ATOM	3412	HE21	GLN	X	224	40.817	33.134	36.776	0.00	0.00
ATOM	3413	HE22	GLN	X	224	41.111	33.165	38.500	0.00	0.00
ATOM	3414	C	GLN	X	224	42.028	36.291	42.034	0.00	0.00
ATOM	3415	O	GLN	X	224	42.511	37.392	41.746	0.00	0.00
ATOM	3416	N	SER	X	225	42.683	35.502	42.863	0.00	0.00
ATOM	3417	H	SER	X	225	42.140	34.752	43.265	0.00	0.00
ATOM	3418	CA	SER	X	225	44.094	35.688	43.285	0.00	0.00
ATOM	3419	HA	SER	X	225	44.284	34.906	44.020	0.00	0.00
ATOM	3420	CB	SER	X	225	45.094	35.386	42.120	0.00	0.00
ATOM	3421	HB2	SER	X	225	44.716	34.432	41.753	0.00	0.00
ATOM	3422	HB3	SER	X	225	45.016	36.256	41.467	0.00	0.00
ATOM	3423	OG	SER	X	225	46.430	35.153	42.483	0.00	0.00
ATOM	3424	HG	SER	X	225	46.420	34.441	43.127	0.00	0.00
ATOM	3425	C	SER	X	225	44.371	37.002	44.076	0.00	0.00
ATOM	3426	O	SER	X	225	45.511	37.397	44.320	0.00	0.00
ATOM	3427	N	GLY	X	226	43.297	37.639	44.413	0.00	0.00
ATOM	3428	H	GLY	X	226	42.414	37.220	44.160	0.00	0.00
ATOM	3429	CA	GLY	X	226	43.255	38.772	45.392	0.00	0.00
ATOM	3430	HA2	GLY	X	226	43.972	38.539	46.178	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.511	39.762	45.014	0.00	0.00
ATOM	3432	C	GLY	X	226	41.880	38.969	46.059	0.00	0.00
ATOM	3433	O	GLY	X	226	40.885	38.407	45.636	0.00	0.00
ATOM	3434	N	ALA	X	227	41.911	39.660	47.200	0.00	0.00
ATOM	3435	H	ALA	X	227	42.788	39.766	47.690	0.00	0.00
ATOM	3436	CA	ALA	X	227	40.656	39.891	48.029	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.819	39.809	47.335	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.778	38.704	49.015	0.00	0.00
ATOM	3439	HB1	ALA	X	227	40.691	37.744	48.507	0.00	0.00
ATOM	3440	HB2	ALA	X	227	39.875	38.695	49.624	0.00	0.00
ATOM	3441	HB3	ALA	X	227	41.665	38.880	49.624	0.00	0.00
ATOM	3442	C	ALA	X	227	40.654	41.248	48.771	0.00	0.00
ATOM	3443	O	ALA	X	227	41.703	41.652	49.201	0.00	0.00
ATOM	3444	N	PRO	X	228	39.426	41.816	48.973	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.108	41.268	48.556	0.00	0.00
ATOM	3446	HD2	PRO	X	228	37.998	40.194	48.701	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.962	41.551	47.514	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.120	42.015	49.476	0.00	0.00
ATOM	3449	HG2	PRO	X	228	37.171	41.624	50.492	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.105	42.001	49.079	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.766	43.383	49.603	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.402	43.905	50.488	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.477	44.032	48.777	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.282	43.118	49.641	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.800	43.823	48.990	0.00	0.00
ATOM	3456	C	PRO	X	228	39.881	43.193	51.035	0.00	0.00
ATOM	3457	O	PRO	X	228	40.431	44.231	51.367	0.00	0.00
ATOM	3458	N	ASN	X	229	39.807	42.121	51.866	0.00	0.00
ATOM	3459	H	ASN	X	229	39.560	41.291	51.347	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.239	41.943	53.210	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.301	42.906	53.717	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.234	41.002	53.927	0.00	0.00
ATOM	3463	HB2	ASN	X	229	39.342	40.987	55.011	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.269	41.445	53.681	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.321	39.529	53.440	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.392	39.226	52.221	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.321	38.584	54.365	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.428	37.661	53.969	0.00	0.00
ATOM	3469	HD22	ASN	X	229	39.471	38.846	55.329	0.00	0.00
ATOM	3470	C	ASN	X	229	41.577	41.227	53.258	0.00	0.00
ATOM	3471	O	ASN	X	229	42.072	40.844	54.332	0.00	0.00
ATOM	3472	N	GLY	X	230	42.322	41.138	52.170	0.00	0.00
ATOM	3473	H	GLY	X	230	41.953	41.484	51.296	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.772	40.902	52.136	0.00	0.00
ATOM	3475	HA2	GLY	X	230	43.960	40.148	52.900	0.00	0.00

ATOM	3476	HA3	GLY	X	230	44.046	40.547	51.143	0.00	0.00
ATOM	3477	C	GLY	X	230	44.429	42.187	52.590	0.00	0.00
ATOM	3478	O	GLY	X	230	44.051	43.204	51.951	0.00	0.00
ATOM	3479	N	PRO	X	231	45.204	42.201	53.706	0.00	0.00
ATOM	3480	CD	PRO	X	231	45.496	41.025	54.533	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.243	40.358	54.104	0.00	0.00
ATOM	3482	HD3	PRO	X	231	44.568	40.491	54.738	0.00	0.00
ATOM	3483	CG	PRO	X	231	45.920	41.525	55.828	0.00	0.00
ATOM	3484	HG2	PRO	X	231	46.686	40.887	56.269	0.00	0.00
ATOM	3485	HG3	PRO	X	231	45.057	41.562	56.494	0.00	0.00
ATOM	3486	CB	PRO	X	231	46.463	42.936	55.501	0.00	0.00
ATOM	3487	HB2	PRO	X	231	47.459	42.846	55.069	0.00	0.00
ATOM	3488	HB3	PRO	X	231	46.400	43.544	56.404	0.00	0.00
ATOM	3489	CA	PRO	X	231	45.577	43.462	54.411	0.00	0.00
ATOM	3490	HA	PRO	X	231	44.696	43.962	54.814	0.00	0.00
ATOM	3491	C	PRO	X	231	46.217	44.511	53.416	0.00	0.00
ATOM	3492	O	PRO	X	231	45.863	45.697	53.455	0.00	0.00
ATOM	3493	N	TRP	X	232	47.013	44.126	52.423	0.00	0.00
ATOM	3494	H	TRP	X	232	47.263	43.150	52.351	0.00	0.00
ATOM	3495	CA	TRP	X	232	47.546	44.918	51.312	0.00	0.00
ATOM	3496	HA	TRP	X	232	48.292	45.575	51.760	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.252	43.889	50.450	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.703	44.412	49.607	0.00	0.00
ATOM	3499	HB3	TRP	X	232	49.030	43.517	51.116	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.469	42.792	49.963	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.246	41.602	50.504	0.00	0.00
ATOM	3502	HD1	TRP	X	232	47.724	41.125	51.347	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.414	40.918	49.654	0.00	0.00
ATOM	3504	HE1	TRP	X	232	45.968	40.045	49.897	0.00	0.00
ATOM	3505	CE2	TRP	X	232	46.110	41.599	48.497	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	45.548	41.188	47.318	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	45.304	40.144	47.189	0.00	0.00
ATOM	3508	CH2	TRP	X	232	45.513	42.053	46.144	0.00	0.00
ATOM	3509	HH2	TRP	X	232	45.046	41.770	45.212	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.937	43.377	46.449	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.913	44.162	45.707	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.457	43.770	47.737	0.00	0.00
ATOM	3513	HE3	TRP	X	232	46.947	44.721	47.883	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.616	42.856	48.740	0.00	0.00
ATOM	3515	C	TRP	X	232	46.504	45.683	50.477	0.00	0.00
ATOM	3516	O	TRP	X	232	46.918	46.582	49.737	0.00	0.00
ATOM	3517	N	ALA	X	233	45.253	45.271	50.394	0.00	0.00
ATOM	3518	H	ALA	X	233	44.963	44.441	50.890	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.305	45.998	49.504	0.00	0.00
ATOM	3520	HA	ALA	X	233	44.882	46.236	48.610	0.00	0.00
ATOM	3521	CB	ALA	X	233	43.104	45.084	49.156	0.00	0.00
ATOM	3522	HB1	ALA	X	233	43.436	44.232	48.562	0.00	0.00
ATOM	3523	HB2	ALA	X	233	42.402	45.728	48.626	0.00	0.00
ATOM	3524	HB3	ALA	X	233	42.525	44.741	50.014	0.00	0.00
ATOM	3525	C	ALA	X	233	43.742	47.324	50.104	0.00	0.00
ATOM	3526	O	ALA	X	233	42.852	47.990	49.587	0.00	0.00
ATOM	3527	N	THR	X	234	44.122	47.684	51.336	0.00	0.00
ATOM	3528	H	THR	X	234	44.787	47.150	51.877	0.00	0.00
ATOM	3529	CA	THR	X	234	43.866	48.998	51.986	0.00	0.00
ATOM	3530	HA	THR	X	234	43.540	49.677	51.197	0.00	0.00
ATOM	3531	CB	THR	X	234	42.749	49.008	53.096	0.00	0.00
ATOM	3532	HB	THR	X	234	42.712	50.017	53.506	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.451	48.756	52.448	0.00	0.00
ATOM	3534	HG21	THR	X	234	40.704	49.093	53.167	0.00	0.00
ATOM	3535	HG22	THR	X	234	41.234	47.695	52.318	0.00	0.00
ATOM	3536	HG23	THR	X	234	41.416	49.484	51.638	0.00	0.00
ATOM	3537	OG1	THR	X	234	43.038	48.053	54.043	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.872	47.229	53.578	0.00	0.00
ATOM	3539	C	THR	X	234	45.033	49.676	52.586	0.00	0.00
ATOM	3540	O	THR	X	234	45.998	49.056	53.038	0.00	0.00
ATOM	3541	N	VAL	X	235	44.982	51.006	52.694	0.00	0.00
ATOM	3542	H	VAL	X	235	44.268	51.568	52.252	0.00	0.00

ATOM	3543	CA	VAL	X	235	45.975	51.744	53.511	0.00	0.00
ATOM	3544	HA	VAL	X	235	46.344	51.054	54.270	0.00	0.00
ATOM	3545	CB	VAL	X	235	47.166	52.207	52.648	0.00	0.00
ATOM	3546	HB	VAL	X	235	47.166	51.452	51.862	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.851	53.517	51.881	0.00	0.00
ATOM	3548	HG11	VAL	X	235	46.840	54.424	52.485	0.00	0.00
ATOM	3549	HG12	VAL	X	235	47.606	53.620	51.101	0.00	0.00
ATOM	3550	HG13	VAL	X	235	45.899	53.428	51.358	0.00	0.00
ATOM	3551	CG2	VAL	X	235	48.483	52.444	53.331	0.00	0.00
ATOM	3552	HG21	VAL	X	235	49.305	52.601	52.632	0.00	0.00
ATOM	3553	HG22	VAL	X	235	48.738	51.594	53.964	0.00	0.00
ATOM	3554	HG23	VAL	X	235	48.448	53.376	53.896	0.00	0.00
ATOM	3555	C	VAL	X	235	45.283	52.834	54.365	0.00	0.00
ATOM	3556	O	VAL	X	235	44.255	53.342	54.038	0.00	0.00
ATOM	3557	N	GLY	X	236	45.932	53.193	55.473	0.00	0.00
ATOM	3558	H	GLY	X	236	46.767	52.656	55.660	0.00	0.00
ATOM	3559	CA	GLY	X	236	45.493	54.207	56.469	0.00	0.00
ATOM	3560	HA2	GLY	X	236	44.407	54.191	56.565	0.00	0.00
ATOM	3561	HA3	GLY	X	236	45.975	54.162	57.445	0.00	0.00
ATOM	3562	C	GLY	X	236	45.848	55.619	55.994	0.00	0.00
ATOM	3563	O	GLY	X	236	46.953	56.013	55.483	0.00	0.00
ATOM	3564	N	MET	X	237	44.923	56.510	56.209	0.00	0.00
ATOM	3565	H	MET	X	237	44.029	56.189	56.552	0.00	0.00
ATOM	3566	CA	MET	X	237	44.892	57.992	55.921	0.00	0.00
ATOM	3567	HA	MET	X	237	44.938	58.229	54.858	0.00	0.00
ATOM	3568	CB	MET	X	237	43.683	58.629	56.632	0.00	0.00
ATOM	3569	HB2	MET	X	237	42.852	58.067	56.205	0.00	0.00
ATOM	3570	HB3	MET	X	237	43.645	58.490	57.713	0.00	0.00
ATOM	3571	CG	MET	X	237	43.355	60.123	56.396	0.00	0.00
ATOM	3572	HG2	MET	X	237	42.335	60.342	56.712	0.00	0.00
ATOM	3573	HG3	MET	X	237	44.025	60.745	56.990	0.00	0.00
ATOM	3574	SD	MET	X	237	43.589	60.770	54.706	0.00	0.00
ATOM	3575	CE	MET	X	237	41.876	60.694	54.070	0.00	0.00
ATOM	3576	HE1	MET	X	237	41.865	60.934	53.007	0.00	0.00
ATOM	3577	HE2	MET	X	237	41.444	59.694	54.119	0.00	0.00
ATOM	3578	HE3	MET	X	237	41.179	61.308	54.640	0.00	0.00
ATOM	3579	C	MET	X	237	46.227	58.635	56.472	0.00	0.00
ATOM	3580	O	MET	X	237	46.843	59.507	55.835	0.00	0.00
ATOM	3581	N	GLY	X	238	46.684	58.202	57.659	0.00	0.00
ATOM	3582	H	GLY	X	238	46.210	57.526	58.242	0.00	0.00
ATOM	3583	CA	GLY	X	238	48.048	58.760	58.095	0.00	0.00
ATOM	3584	HA2	GLY	X	238	48.002	59.832	57.903	0.00	0.00
ATOM	3585	HA3	GLY	X	238	48.252	58.479	59.128	0.00	0.00
ATOM	3586	C	GLY	X	238	49.246	58.242	57.332	0.00	0.00
ATOM	3587	O	GLY	X	238	50.105	59.031	57.009	0.00	0.00
ATOM	3588	N	GLU	X	239	49.251	56.941	57.026	0.00	0.00
ATOM	3589	H	GLU	X	239	48.428	56.406	57.262	0.00	0.00
ATOM	3590	CA	GLU	X	239	50.189	56.372	56.021	0.00	0.00
ATOM	3591	HA	GLU	X	239	51.207	56.626	56.318	0.00	0.00
ATOM	3592	CB	GLU	X	239	50.115	54.816	55.982	0.00	0.00
ATOM	3593	HB2	GLU	X	239	49.099	54.542	56.265	0.00	0.00
ATOM	3594	HB3	GLU	X	239	50.401	54.382	55.023	0.00	0.00
ATOM	3595	CG	GLU	X	239	51.169	54.125	56.977	0.00	0.00
ATOM	3596	HG2	GLU	X	239	51.187	54.695	57.906	0.00	0.00
ATOM	3597	HG3	GLU	X	239	50.872	53.108	57.232	0.00	0.00
ATOM	3598	CD	GLU	X	239	52.498	53.839	56.264	0.00	0.00
ATOM	3599	OE1	GLU	X	239	52.658	53.170	55.237	0.00	0.00
ATOM	3600	OE2	GLU	X	239	53.520	54.241	56.805	0.00	0.00
ATOM	3601	C	GLU	X	239	50.142	56.964	54.588	0.00	0.00
ATOM	3602	O	GLU	X	239	51.175	57.230	54.045	0.00	0.00
ATOM	3603	N	ALA	X	240	49.004	57.277	54.081	0.00	0.00
ATOM	3604	H	ALA	X	240	48.185	56.883	54.521	0.00	0.00
ATOM	3605	CA	ALA	X	240	48.788	57.966	52.822	0.00	0.00
ATOM	3606	HA	ALA	X	240	49.315	57.400	52.055	0.00	0.00
ATOM	3607	CB	ALA	X	240	47.256	57.838	52.493	0.00	0.00
ATOM	3608	HB1	ALA	X	240	46.547	58.308	53.175	0.00	0.00
ATOM	3609	HB2	ALA	X	240	47.000	56.778	52.467	0.00	0.00

ATOM	3610	HB3	ALA	X	240	47.178	58.103	51.439	0.00	0.00
ATOM	3611	C	ALA	X	240	49.308	59.439	52.861	0.00	0.00
ATOM	3612	O	ALA	X	240	50.081	59.734	51.995	0.00	0.00
ATOM	3613	N	ARG	X	241	49.025	60.140	54.012	0.00	0.00
ATOM	3614	H	ARG	X	241	48.481	59.613	54.680	0.00	0.00
ATOM	3615	CA	ARG	X	241	49.586	61.487	54.322	0.00	0.00
ATOM	3616	HA	ARG	X	241	49.222	62.242	53.625	0.00	0.00
ATOM	3617	CB	ARG	X	241	49.108	61.929	55.703	0.00	0.00
ATOM	3618	HB2	ARG	X	241	48.019	61.878	55.711	0.00	0.00
ATOM	3619	HB3	ARG	X	241	49.633	61.396	56.495	0.00	0.00
ATOM	3620	CG	ARG	X	241	49.549	63.382	55.895	0.00	0.00
ATOM	3621	HG2	ARG	X	241	50.632	63.357	56.014	0.00	0.00
ATOM	3622	HG3	ARG	X	241	49.324	64.041	55.057	0.00	0.00
ATOM	3623	CD	ARG	X	241	48.934	63.847	57.271	0.00	0.00
ATOM	3624	HD2	ARG	X	241	47.938	63.426	57.406	0.00	0.00
ATOM	3625	HD3	ARG	X	241	49.577	63.450	58.056	0.00	0.00
ATOM	3626	NE	ARG	X	241	48.782	65.296	57.420	0.00	0.00
ATOM	3627	HE	ARG	X	241	48.996	65.860	56.610	0.00	0.00
ATOM	3628	CZ	ARG	X	241	48.418	65.925	58.543	0.00	0.00
ATOM	3629	NH1	ARG	X	241	48.066	65.301	59.598	0.00	0.00
ATOM	3630	HH11	ARG	X	241	48.034	64.295	59.681	0.00	0.00
ATOM	3631	HH12	ARG	X	241	47.772	65.882	60.370	0.00	0.00
ATOM	3632	NH2	ARG	X	241	48.284	67.213	58.515	0.00	0.00
ATOM	3633	HH21	ARG	X	241	48.573	67.803	57.749	0.00	0.00
ATOM	3634	HH22	ARG	X	241	47.921	67.623	59.364	0.00	0.00
ATOM	3635	C	ARG	X	241	51.120	61.468	54.201	0.00	0.00
ATOM	3636	O	ARG	X	241	51.764	62.216	53.443	0.00	0.00
ATOM	3637	N	ARG	X	242	51.801	60.580	54.956	0.00	0.00
ATOM	3638	H	ARG	X	242	51.374	60.003	55.667	0.00	0.00
ATOM	3639	CA	ARG	X	242	53.215	60.346	54.776	0.00	0.00
ATOM	3640	HA	ARG	X	242	53.653	61.236	55.228	0.00	0.00
ATOM	3641	CB	ARG	X	242	53.702	59.180	55.722	0.00	0.00
ATOM	3642	HB2	ARG	X	242	53.535	59.417	56.773	0.00	0.00
ATOM	3643	HB3	ARG	X	242	53.095	58.296	55.527	0.00	0.00
ATOM	3644	CG	ARG	X	242	55.120	58.778	55.539	0.00	0.00
ATOM	3645	HG2	ARG	X	242	55.525	58.554	54.552	0.00	0.00
ATOM	3646	HG3	ARG	X	242	55.759	59.534	55.995	0.00	0.00
ATOM	3647	CD	ARG	X	242	55.534	57.598	56.368	0.00	0.00
ATOM	3648	HD2	ARG	X	242	56.586	57.570	56.649	0.00	0.00
ATOM	3649	HD3	ARG	X	242	55.019	57.696	57.324	0.00	0.00
ATOM	3650	NE	ARG	X	242	55.161	56.243	55.795	0.00	0.00
ATOM	3651	HE	ARG	X	242	54.591	55.623	56.353	0.00	0.00
ATOM	3652	CZ	ARG	X	242	55.714	55.623	54.727	0.00	0.00
ATOM	3653	NH1	ARG	X	242	56.827	56.046	54.135	0.00	0.00
ATOM	3654	HH11	ARG	X	242	57.261	56.872	54.523	0.00	0.00
ATOM	3655	HH12	ARG	X	242	57.218	55.728	53.260	0.00	0.00
ATOM	3656	NH2	ARG	X	242	55.186	54.537	54.294	0.00	0.00
ATOM	3657	HH21	ARG	X	242	54.303	54.226	54.674	0.00	0.00
ATOM	3658	HH22	ARG	X	242	55.700	53.847	53.765	0.00	0.00
ATOM	3659	C	ARG	X	242	53.651	60.027	53.379	0.00	0.00
ATOM	3660	O	ARG	X	242	54.418	60.819	52.850	0.00	0.00
ATOM	3661	N	ARG	X	243	53.047	59.020	52.677	0.00	0.00
ATOM	3662	H	ARG	X	243	52.340	58.488	53.164	0.00	0.00
ATOM	3663	CA	ARG	X	243	53.435	58.725	51.243	0.00	0.00
ATOM	3664	HA	ARG	X	243	54.466	58.370	51.229	0.00	0.00
ATOM	3665	CB	ARG	X	243	52.558	57.499	50.752	0.00	0.00
ATOM	3666	HB2	ARG	X	243	51.511	57.797	50.810	0.00	0.00
ATOM	3667	HB3	ARG	X	243	52.854	57.338	49.715	0.00	0.00
ATOM	3668	CG	ARG	X	243	52.946	56.194	51.549	0.00	0.00
ATOM	3669	HG2	ARG	X	243	53.888	55.779	51.191	0.00	0.00
ATOM	3670	HG3	ARG	X	243	53.089	56.335	52.620	0.00	0.00
ATOM	3671	CD	ARG	X	243	51.753	55.241	51.563	0.00	0.00
ATOM	3672	HD2	ARG	X	243	50.858	55.697	51.985	0.00	0.00
ATOM	3673	HD3	ARG	X	243	51.545	55.001	50.520	0.00	0.00
ATOM	3674	NE	ARG	X	243	52.006	54.001	52.416	0.00	0.00
ATOM	3675	HE	ARG	X	243	52.287	54.130	53.378	0.00	0.00
ATOM	3676	CZ	ARG	X	243	52.035	52.733	51.937	0.00	0.00

ATOM	3677	NH1	ARG	X	243	51.845	52.430	50.696	0.00	0.00
ATOM	3678	HH11	ARG	X	243	51.697	53.206	50.068	0.00	0.00
ATOM	3679	HH12	ARG	X	243	51.850	51.485	50.338	0.00	0.00
ATOM	3680	NH2	ARG	X	243	52.377	51.693	52.697	0.00	0.00
ATOM	3681	HH21	ARG	X	243	52.425	51.803	53.700	0.00	0.00
ATOM	3682	HH22	ARG	X	243	52.338	50.770	52.288	0.00	0.00
ATOM	3683	C	ARG	X	243	53.299	59.935	50.274	0.00	0.00
ATOM	3684	O	ARG	X	243	54.254	60.181	49.486	0.00	0.00
ATOM	3685	N	ALA	X	244	52.230	60.699	50.414	0.00	0.00
ATOM	3686	H	ALA	X	244	51.599	60.507	51.178	0.00	0.00
ATOM	3687	CA	ALA	X	244	52.074	61.959	49.682	0.00	0.00
ATOM	3688	HA	ALA	X	244	52.155	61.902	48.597	0.00	0.00
ATOM	3689	CB	ALA	X	244	50.805	62.603	50.095	0.00	0.00
ATOM	3690	HB1	ALA	X	244	50.567	63.449	49.449	0.00	0.00
ATOM	3691	HB2	ALA	X	244	50.706	63.017	51.098	0.00	0.00
ATOM	3692	HB3	ALA	X	244	49.934	61.947	50.092	0.00	0.00
ATOM	3693	C	ALA	X	244	53.186	62.932	50.052	0.00	0.00
ATOM	3694	O	ALA	X	244	53.723	63.668	49.156	0.00	0.00
ATOM	3695	N	THR	X	245	53.497	63.115	51.317	0.00	0.00
ATOM	3696	H	THR	X	245	53.060	62.572	52.048	0.00	0.00
ATOM	3697	CA	THR	X	245	54.548	63.961	51.732	0.00	0.00
ATOM	3698	HA	THR	X	245	54.379	64.979	51.382	0.00	0.00
ATOM	3699	CB	THR	X	245	54.575	64.047	53.269	0.00	0.00
ATOM	3700	HB	THR	X	245	54.590	63.053	53.716	0.00	0.00
ATOM	3701	CG2	THR	X	245	55.833	64.583	53.809	0.00	0.00
ATOM	3702	HG21	THR	X	245	55.630	64.815	54.854	0.00	0.00
ATOM	3703	HG22	THR	X	245	56.030	65.481	53.223	0.00	0.00
ATOM	3704	HG23	THR	X	245	56.552	63.798	53.573	0.00	0.00
ATOM	3705	OG1	THR	X	245	53.450	64.930	53.493	0.00	0.00
ATOM	3706	HG1	THR	X	245	53.138	64.919	54.400	0.00	0.00
ATOM	3707	C	THR	X	245	55.898	63.594	51.185	0.00	0.00
ATOM	3708	O	THR	X	245	56.641	64.461	50.711	0.00	0.00
ATOM	3709	N	GLN	X	246	56.295	62.270	51.321	0.00	0.00
ATOM	3710	H	GLN	X	246	55.697	61.709	51.910	0.00	0.00
ATOM	3711	CA	GLN	X	246	57.604	61.742	50.865	0.00	0.00
ATOM	3712	HA	GLN	X	246	58.411	62.320	51.315	0.00	0.00
ATOM	3713	CB	GLN	X	246	57.758	60.289	51.326	0.00	0.00
ATOM	3714	HB2	GLN	X	246	56.870	59.745	51.003	0.00	0.00
ATOM	3715	HB3	GLN	X	246	58.600	59.963	50.715	0.00	0.00
ATOM	3716	CG	GLN	X	246	58.096	60.207	52.806	0.00	0.00
ATOM	3717	HG2	GLN	X	246	58.775	61.011	53.089	0.00	0.00
ATOM	3718	HG3	GLN	X	246	57.214	60.417	53.411	0.00	0.00
ATOM	3719	CD	GLN	X	246	58.655	58.925	53.331	0.00	0.00
ATOM	3720	OE1	GLN	X	246	58.314	58.481	54.407	0.00	0.00
ATOM	3721	NE2	GLN	X	246	59.468	58.233	52.603	0.00	0.00
ATOM	3722	HE21	GLN	X	246	59.771	57.339	52.960	0.00	0.00
ATOM	3723	HE22	GLN	X	246	59.938	58.597	51.786	0.00	0.00
ATOM	3724	C	GLN	X	246	57.765	61.942	49.333	0.00	0.00
ATOM	3725	O	GLN	X	246	58.894	62.196	48.848	0.00	0.00
ATOM	3726	N	LEU	X	247	56.682	61.789	48.597	0.00	0.00
ATOM	3727	H	LEU	X	247	55.832	61.443	49.018	0.00	0.00
ATOM	3728	CA	LEU	X	247	56.532	62.112	47.179	0.00	0.00
ATOM	3729	HA	LEU	X	247	57.301	61.552	46.648	0.00	0.00
ATOM	3730	CB	LEU	X	247	55.125	61.670	46.583	0.00	0.00
ATOM	3731	HB2	LEU	X	247	54.996	60.591	46.676	0.00	0.00
ATOM	3732	HB3	LEU	X	247	54.288	62.042	47.173	0.00	0.00
ATOM	3733	CG	LEU	X	247	54.908	62.001	45.112	0.00	0.00
ATOM	3734	HG	LEU	X	247	55.096	63.069	45.006	0.00	0.00
ATOM	3735	CD1	LEU	X	247	55.807	61.275	44.080	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.475	60.244	43.957	0.00	0.00
ATOM	3737	HD12	LEU	X	247	56.806	61.371	44.506	0.00	0.00
ATOM	3738	HD13	LEU	X	247	55.882	61.789	43.122	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.506	61.678	44.669	0.00	0.00
ATOM	3740	HD21	LEU	X	247	53.290	61.908	43.626	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.258	60.622	44.783	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.730	62.182	45.246	0.00	0.00
ATOM	3743	C	LEU	X	247	56.733	63.625	46.982	0.00	0.00

ATOM	3744	O	LEU	X	247	57.597	64.041	46.140	0.00	0.00
ATOM	3745	N	ALA	X	248	55.981	64.452	47.740	0.00	0.00
ATOM	3746	H	ALA	X	248	55.334	64.025	48.388	0.00	0.00
ATOM	3747	CA	ALA	X	248	56.038	65.926	47.569	0.00	0.00
ATOM	3748	HA	ALA	X	248	55.849	66.114	46.513	0.00	0.00
ATOM	3749	CB	ALA	X	248	54.840	66.468	48.417	0.00	0.00
ATOM	3750	HB1	ALA	X	248	54.774	66.328	49.496	0.00	0.00
ATOM	3751	HB2	ALA	X	248	53.900	66.062	48.046	0.00	0.00
ATOM	3752	HB3	ALA	X	248	54.778	67.545	48.263	0.00	0.00
ATOM	3753	C	ALA	X	248	57.391	66.599	47.885	0.00	0.00
ATOM	3754	O	ALA	X	248	57.731	67.704	47.340	0.00	0.00
ATOM	3755	N	HIE	X	249	58.134	66.001	48.768	0.00	0.00
ATOM	3756	H	HIE	X	249	57.777	65.165	49.208	0.00	0.00
ATOM	3757	CA	HIE	X	249	59.551	66.415	48.969	0.00	0.00
ATOM	3758	HA	HIE	X	249	59.565	67.487	49.166	0.00	0.00
ATOM	3759	CB	HIE	X	249	59.955	65.594	50.206	0.00	0.00
ATOM	3760	HB2	HIE	X	249	59.172	65.740	50.950	0.00	0.00
ATOM	3761	HB3	HIE	X	249	59.805	64.531	50.023	0.00	0.00
ATOM	3762	CG	HIE	X	249	61.400	65.828	50.680	0.00	0.00
ATOM	3763	ND1	HIE	X	249	62.388	66.559	49.970	0.00	0.00
ATOM	3764	CE1	HIE	X	249	63.357	66.746	50.859	0.00	0.00
ATOM	3765	HE1	HIE	X	249	64.196	67.404	50.685	0.00	0.00
ATOM	3766	NE2	HIE	X	249	62.999	66.262	52.040	0.00	0.00
ATOM	3767	HE2	HIE	X	249	63.621	66.369	52.828	0.00	0.00
ATOM	3768	CD2	HIE	X	249	61.795	65.687	51.967	0.00	0.00
ATOM	3769	HD2	HIE	X	249	61.258	65.209	52.774	0.00	0.00
ATOM	3770	C	HIE	X	249	60.519	66.135	47.763	0.00	0.00
ATOM	3771	O	HIE	X	249	61.223	67.041	47.337	0.00	0.00
ATOM	3772	N	LEU	X	250	60.402	64.948	47.065	0.00	0.00
ATOM	3773	H	LEU	X	250	59.783	64.220	47.391	0.00	0.00
ATOM	3774	CA	LEU	X	250	61.099	64.568	45.783	0.00	0.00
ATOM	3775	HA	LEU	X	250	62.165	64.752	45.918	0.00	0.00
ATOM	3776	CB	LEU	X	250	60.989	63.005	45.570	0.00	0.00
ATOM	3777	HB2	LEU	X	250	60.019	62.690	45.953	0.00	0.00
ATOM	3778	HB3	LEU	X	250	60.822	62.917	44.497	0.00	0.00
ATOM	3779	CG	LEU	X	250	62.241	62.144	45.969	0.00	0.00
ATOM	3780	HG	LEU	X	250	63.091	62.404	45.339	0.00	0.00
ATOM	3781	CD1	LEU	X	250	62.734	62.319	47.419	0.00	0.00
ATOM	3782	HD11	LEU	X	250	63.588	61.654	47.550	0.00	0.00
ATOM	3783	HD12	LEU	X	250	61.904	62.212	48.117	0.00	0.00
ATOM	3784	HD13	LEU	X	250	63.079	63.352	47.466	0.00	0.00
ATOM	3785	CD2	LEU	X	250	61.927	60.627	45.804	0.00	0.00
ATOM	3786	HD21	LEU	X	250	62.799	60.038	46.088	0.00	0.00
ATOM	3787	HD22	LEU	X	250	61.092	60.354	46.449	0.00	0.00
ATOM	3788	HD23	LEU	X	250	61.602	60.504	44.771	0.00	0.00
ATOM	3789	C	LEU	X	250	60.618	65.395	44.584	0.00	0.00
ATOM	3790	O	LEU	X	250	61.374	65.874	43.754	0.00	0.00
ATOM	3791	N	VAL	X	251	59.339	65.609	44.525	0.00	0.00
ATOM	3792	H	VAL	X	251	58.746	65.050	45.121	0.00	0.00
ATOM	3793	CA	VAL	X	251	58.692	66.458	43.461	0.00	0.00
ATOM	3794	HA	VAL	X	251	59.037	66.050	42.511	0.00	0.00
ATOM	3795	CB	VAL	X	251	57.173	66.175	43.575	0.00	0.00
ATOM	3796	HB	VAL	X	251	57.016	66.392	44.631	0.00	0.00
ATOM	3797	CG1	VAL	X	251	56.276	67.073	42.672	0.00	0.00
ATOM	3798	HG11	VAL	X	251	55.225	66.802	42.779	0.00	0.00
ATOM	3799	HG12	VAL	X	251	56.359	68.130	42.924	0.00	0.00
ATOM	3800	HG13	VAL	X	251	56.502	66.917	41.618	0.00	0.00
ATOM	3801	CG2	VAL	X	251	56.730	64.741	43.276	0.00	0.00
ATOM	3802	HG21	VAL	X	251	57.317	64.008	43.829	0.00	0.00
ATOM	3803	HG22	VAL	X	251	56.574	64.584	42.208	0.00	0.00
ATOM	3804	HG23	VAL	X	251	55.747	64.689	43.744	0.00	0.00
ATOM	3805	C	VAL	X	251	58.972	67.943	43.693	0.00	0.00
ATOM	3806	O	VAL	X	251	59.177	68.651	42.675	0.00	0.00
ATOM	3807	N	GLY	X	252	59.054	68.421	44.907	0.00	0.00
ATOM	3808	H	GLY	X	252	58.925	67.824	45.711	0.00	0.00
ATOM	3809	CA	GLY	X	252	59.296	69.905	45.161	0.00	0.00
ATOM	3810	HA2	GLY	X	252	59.982	70.145	45.974	0.00	0.00

ATOM	3811	HA3	GLY	X	252	59.792	70.216	44.241	0.00	0.00
ATOM	3812	C	GLY	X	252	58.017	70.694	45.437	0.00	0.00
ATOM	3813	O	GLY	X	252	57.778	71.695	44.770	0.00	0.00
ATOM	3814	N	CYX	X	253	57.177	70.296	46.408	0.00	0.00
ATOM	3815	H	CYX	X	253	57.448	69.482	46.941	0.00	0.00
ATOM	3816	CA	CYX	X	253	55.923	70.922	46.854	0.00	0.00
ATOM	3817	HA	CYX	X	253	55.927	71.902	46.376	0.00	0.00
ATOM	3818	CB	CYX	X	253	54.823	70.031	46.362	0.00	0.00
ATOM	3819	HB2	CYX	X	253	55.102	69.005	46.602	0.00	0.00
ATOM	3820	HB3	CYX	X	253	53.880	70.026	46.908	0.00	0.00
ATOM	3821	SG	CYX	X	253	54.372	70.376	44.600	0.00	0.00
ATOM	3822	C	CYX	X	253	55.824	71.011	48.374	0.00	0.00
ATOM	3823	O	CYX	X	253	56.471	70.184	49.056	0.00	0.00
ATOM	3824	N	PRO	X	254	55.139	72.035	48.979	0.00	0.00
ATOM	3825	CD	PRO	X	254	54.956	72.027	50.448	0.00	0.00
ATOM	3826	HD2	PRO	X	254	55.954	71.713	50.754	0.00	0.00
ATOM	3827	HD3	PRO	X	254	54.198	71.353	50.847	0.00	0.00
ATOM	3828	CG	PRO	X	254	54.596	73.472	50.878	0.00	0.00
ATOM	3829	HG2	PRO	X	254	55.540	74.003	51.000	0.00	0.00
ATOM	3830	HG3	PRO	X	254	54.061	73.516	51.827	0.00	0.00
ATOM	3831	CB	PRO	X	254	53.864	74.038	49.654	0.00	0.00
ATOM	3832	HB2	PRO	X	254	54.097	75.102	49.645	0.00	0.00
ATOM	3833	HB3	PRO	X	254	52.786	73.921	49.759	0.00	0.00
ATOM	3834	CA	PRO	X	254	54.438	73.229	48.464	0.00	0.00
ATOM	3835	HA	PRO	X	254	53.637	72.920	47.792	0.00	0.00
ATOM	3836	C	PRO	X	254	55.522	74.123	47.636	0.00	0.00
ATOM	3837	O	PRO	X	254	56.721	73.764	47.650	0.00	0.00
ATOM	3838	N	PRO	X	255	55.137	75.222	46.976	0.00	0.00
ATOM	3839	CD	PRO	X	255	53.893	76.023	47.033	0.00	0.00
ATOM	3840	HD2	PRO	X	255	53.981	76.672	47.904	0.00	0.00
ATOM	3841	HD3	PRO	X	255	52.993	75.414	47.111	0.00	0.00
ATOM	3842	CG	PRO	X	255	53.804	77.034	45.880	0.00	0.00
ATOM	3843	HG2	PRO	X	255	54.104	78.010	46.262	0.00	0.00
ATOM	3844	HG3	PRO	X	255	52.812	77.114	45.437	0.00	0.00
ATOM	3845	CB	PRO	X	255	54.902	76.511	44.896	0.00	0.00
ATOM	3846	HB2	PRO	X	255	55.339	77.365	44.379	0.00	0.00
ATOM	3847	HB3	PRO	X	255	54.517	75.810	44.155	0.00	0.00
ATOM	3848	CA	PRO	X	255	55.887	75.677	45.789	0.00	0.00
ATOM	3849	HA	PRO	X	255	56.206	74.803	45.220	0.00	0.00
ATOM	3850	C	PRO	X	255	57.088	76.481	46.254	0.00	0.00
ATOM	3851	O	PRO	X	255	56.978	77.441	46.965	0.00	0.00
ATOM	3852	N	GLY	X	256	58.238	75.975	45.820	0.00	0.00
ATOM	3853	H	GLY	X	256	58.159	75.187	45.193	0.00	0.00
ATOM	3854	CA	GLY	X	256	59.606	76.622	46.066	0.00	0.00
ATOM	3855	HA2	GLY	X	256	60.320	76.313	45.302	0.00	0.00
ATOM	3856	HA3	GLY	X	256	59.502	77.706	46.105	0.00	0.00
ATOM	3857	C	GLY	X	256	60.074	76.267	47.518	0.00	0.00
ATOM	3858	O	GLY	X	256	61.112	76.831	47.971	0.00	0.00
ATOM	3859	N	GLY	X	257	59.474	75.302	48.180	0.00	0.00
ATOM	3860	H	GLY	X	257	58.638	74.858	47.829	0.00	0.00
ATOM	3861	CA	GLY	X	257	60.134	74.462	49.276	0.00	0.00
ATOM	3862	HA2	GLY	X	257	61.207	74.643	49.340	0.00	0.00
ATOM	3863	HA3	GLY	X	257	59.634	74.771	50.194	0.00	0.00
ATOM	3864	C	GLY	X	257	59.892	72.990	49.018	0.00	0.00
ATOM	3865	O	GLY	X	257	59.766	72.469	47.905	0.00	0.00
ATOM	3866	N	THR	X	258	59.898	72.212	50.153	0.00	0.00
ATOM	3867	H	THR	X	258	60.086	72.732	50.998	0.00	0.00
ATOM	3868	CA	THR	X	258	59.746	70.736	50.181	0.00	0.00
ATOM	3869	HA	THR	X	258	59.061	70.495	49.368	0.00	0.00
ATOM	3870	CB	THR	X	258	61.143	70.113	49.996	0.00	0.00
ATOM	3871	HB	THR	X	258	61.173	69.118	50.441	0.00	0.00
ATOM	3872	CG2	THR	X	258	61.774	70.098	48.585	0.00	0.00
ATOM	3873	HG21	THR	X	258	62.638	69.434	48.571	0.00	0.00
ATOM	3874	HG22	THR	X	258	62.114	71.074	48.238	0.00	0.00
ATOM	3875	HG23	THR	X	258	61.021	69.812	47.850	0.00	0.00
ATOM	3876	OG1	THR	X	258	62.068	70.847	50.814	0.00	0.00
ATOM	3877	HG1	THR	X	258	61.841	70.659	51.728	0.00	0.00

ATOM	3878	C	THR	X	258	59.156	70.289	51.491	0.00	0.00
ATOM	3879	O	THR	X	258	59.854	70.482	52.540	0.00	0.00
ATOM	3880	N	GLY	X	259	58.013	69.615	51.467	0.00	0.00
ATOM	3881	H	GLY	X	259	57.530	69.500	50.588	0.00	0.00
ATOM	3882	CA	GLY	X	259	57.195	69.328	52.677	0.00	0.00
ATOM	3883	HA2	GLY	X	259	56.470	68.554	52.427	0.00	0.00
ATOM	3884	HA3	GLY	X	259	57.851	68.908	53.439	0.00	0.00
ATOM	3885	C	GLY	X	259	56.403	70.501	53.332	0.00	0.00
ATOM	3886	O	GLY	X	259	56.696	71.617	53.031	0.00	0.00
ATOM	3887	N	GLY	X	260	55.383	70.188	54.088	0.00	0.00
ATOM	3888	H	GLY	X	260	55.022	69.245	54.117	0.00	0.00
ATOM	3889	CA	GLY	X	260	54.778	71.189	55.035	0.00	0.00
ATOM	3890	HA2	GLY	X	260	55.152	70.988	56.039	0.00	0.00
ATOM	3891	HA3	GLY	X	260	55.092	72.206	54.801	0.00	0.00
ATOM	3892	C	GLY	X	260	53.309	71.153	55.245	0.00	0.00
ATOM	3893	O	GLY	X	260	52.817	70.125	55.717	0.00	0.00
ATOM	3894	N	ASN	X	261	52.632	72.238	54.923	0.00	0.00
ATOM	3895	H	ASN	X	261	53.127	72.997	54.477	0.00	0.00
ATOM	3896	CA	ASN	X	261	51.165	72.386	54.922	0.00	0.00
ATOM	3897	HA	ASN	X	261	50.759	71.961	55.839	0.00	0.00
ATOM	3898	CB	ASN	X	261	50.795	73.800	55.003	0.00	0.00
ATOM	3899	HB2	ASN	X	261	51.083	74.179	55.983	0.00	0.00
ATOM	3900	HB3	ASN	X	261	51.342	74.347	54.235	0.00	0.00
ATOM	3901	CG	ASN	X	261	49.358	74.162	54.945	0.00	0.00
ATOM	3902	OD1	ASN	X	261	48.428	73.422	55.305	0.00	0.00
ATOM	3903	ND2	ASN	X	261	49.082	75.437	54.435	0.00	0.00
ATOM	3904	HD21	ASN	X	261	48.105	75.694	54.448	0.00	0.00
ATOM	3905	HD22	ASN	X	261	49.816	75.941	53.958	0.00	0.00
ATOM	3906	C	ASN	X	261	50.482	71.637	53.807	0.00	0.00
ATOM	3907	O	ASN	X	261	50.825	71.815	52.599	0.00	0.00
ATOM	3908	N	ASP	X	262	49.457	70.843	54.154	0.00	0.00
ATOM	3909	H	ASP	X	262	49.323	70.684	55.142	0.00	0.00
ATOM	3910	CA	ASP	X	262	48.720	69.901	53.316	0.00	0.00
ATOM	3911	HA	ASP	X	262	49.422	69.208	52.853	0.00	0.00
ATOM	3912	CB	ASP	X	262	47.845	69.009	54.257	0.00	0.00
ATOM	3913	HB2	ASP	X	262	47.198	69.694	54.805	0.00	0.00
ATOM	3914	HB3	ASP	X	262	47.168	68.404	53.653	0.00	0.00
ATOM	3915	CG	ASP	X	262	48.719	68.228	55.283	0.00	0.00
ATOM	3916	OD1	ASP	X	262	49.255	67.159	55.056	0.00	0.00
ATOM	3917	OD2	ASP	X	262	48.894	68.895	56.328	0.00	0.00
ATOM	3918	C	ASP	X	262	47.929	70.549	52.131	0.00	0.00
ATOM	3919	O	ASP	X	262	47.989	70.084	50.967	0.00	0.00
ATOM	3920	N	THR	X	263	47.332	71.693	52.390	0.00	0.00
ATOM	3921	H	THR	X	263	47.349	71.997	53.353	0.00	0.00
ATOM	3922	CA	THR	X	263	46.500	72.431	51.466	0.00	0.00
ATOM	3923	HA	THR	X	263	45.855	71.728	50.939	0.00	0.00
ATOM	3924	CB	THR	X	263	45.609	73.535	52.126	0.00	0.00
ATOM	3925	HB	THR	X	263	45.044	74.124	51.403	0.00	0.00
ATOM	3926	CG2	THR	X	263	44.659	72.808	53.081	0.00	0.00
ATOM	3927	HG21	THR	X	263	44.058	73.565	53.584	0.00	0.00
ATOM	3928	HG22	THR	X	263	45.270	72.284	53.816	0.00	0.00
ATOM	3929	HG23	THR	X	263	44.073	72.054	52.555	0.00	0.00
ATOM	3930	OG1	THR	X	263	46.424	74.356	52.918	0.00	0.00
ATOM	3931	HG1	THR	X	263	46.076	75.240	52.780	0.00	0.00
ATOM	3932	C	THR	X	263	47.330	73.196	50.435	0.00	0.00
ATOM	3933	O	THR	X	263	47.041	73.133	49.262	0.00	0.00
ATOM	3934	N	GLU	X	264	48.346	73.951	50.897	0.00	0.00
ATOM	3935	H	GLU	X	264	48.398	74.098	51.895	0.00	0.00
ATOM	3936	CA	GLU	X	264	49.340	74.519	50.003	0.00	0.00
ATOM	3937	HA	GLU	X	264	48.735	75.193	49.397	0.00	0.00
ATOM	3938	CB	GLU	X	264	50.346	75.468	50.757	0.00	0.00
ATOM	3939	HB2	GLU	X	264	50.885	74.907	51.520	0.00	0.00
ATOM	3940	HB3	GLU	X	264	50.995	75.900	49.995	0.00	0.00
ATOM	3941	CG	GLU	X	264	49.499	76.637	51.370	0.00	0.00
ATOM	3942	HG2	GLU	X	264	49.011	77.165	50.551	0.00	0.00
ATOM	3943	HG3	GLU	X	264	48.681	76.294	52.004	0.00	0.00
ATOM	3944	CD	GLU	X	264	50.362	77.600	52.227	0.00	0.00

ATOM	3945	OE1	GLU	X	264	51.096	77.116	53.153	0.00	0.00
ATOM	3946	OE2	GLU	X	264	50.408	78.807	51.893	0.00	0.00
ATOM	3947	C	GLU	X	264	50.091	73.431	49.174	0.00	0.00
ATOM	3948	O	GLU	X	264	50.618	73.614	48.046	0.00	0.00
ATOM	3949	N	LEU	X	265	50.258	72.258	49.757	0.00	0.00
ATOM	3950	H	LEU	X	265	49.973	72.054	50.704	0.00	0.00
ATOM	3951	CA	LEU	X	265	51.104	71.138	49.271	0.00	0.00
ATOM	3952	HA	LEU	X	265	51.982	71.569	48.790	0.00	0.00
ATOM	3953	CB	LEU	X	265	51.495	70.144	50.394	0.00	0.00
ATOM	3954	HB2	LEU	X	265	52.351	70.585	50.905	0.00	0.00
ATOM	3955	HB3	LEU	X	265	50.647	69.927	51.045	0.00	0.00
ATOM	3956	CG	LEU	X	265	52.096	68.720	50.112	0.00	0.00
ATOM	3957	HG	LEU	X	265	52.922	68.874	49.417	0.00	0.00
ATOM	3958	CD1	LEU	X	265	52.739	68.244	51.446	0.00	0.00
ATOM	3959	HD11	LEU	X	265	53.279	67.306	51.316	0.00	0.00
ATOM	3960	HD12	LEU	X	265	51.936	68.189	52.180	0.00	0.00
ATOM	3961	HD13	LEU	X	265	53.625	68.766	51.807	0.00	0.00
ATOM	3962	CD2	LEU	X	265	51.182	67.628	49.531	0.00	0.00
ATOM	3963	HD21	LEU	X	265	50.697	68.009	48.632	0.00	0.00
ATOM	3964	HD22	LEU	X	265	51.755	66.710	49.404	0.00	0.00
ATOM	3965	HD23	LEU	X	265	50.291	67.495	50.145	0.00	0.00
ATOM	3966	C	LEU	X	265	50.290	70.544	48.146	0.00	0.00
ATOM	3967	O	LEU	X	265	50.853	70.343	47.114	0.00	0.00
ATOM	3968	N	VAL	X	266	48.984	70.299	48.305	0.00	0.00
ATOM	3969	H	VAL	X	266	48.642	70.546	49.222	0.00	0.00
ATOM	3970	CA	VAL	X	266	48.138	69.582	47.335	0.00	0.00
ATOM	3971	HA	VAL	X	266	48.794	68.758	47.056	0.00	0.00
ATOM	3972	CB	VAL	X	266	46.945	68.983	48.012	0.00	0.00
ATOM	3973	HB	VAL	X	266	47.269	68.514	48.942	0.00	0.00
ATOM	3974	CG1	VAL	X	266	45.894	70.014	48.331	0.00	0.00
ATOM	3975	HG11	VAL	X	266	45.172	69.601	49.036	0.00	0.00
ATOM	3976	HG12	VAL	X	266	46.348	70.833	48.890	0.00	0.00
ATOM	3977	HG13	VAL	X	266	45.284	70.377	47.505	0.00	0.00
ATOM	3978	CG2	VAL	X	266	46.418	67.770	47.202	0.00	0.00
ATOM	3979	HG21	VAL	X	266	45.961	68.137	46.283	0.00	0.00
ATOM	3980	HG22	VAL	X	266	45.736	67.242	47.869	0.00	0.00
ATOM	3981	HG23	VAL	X	266	47.158	67.021	46.918	0.00	0.00
ATOM	3982	C	VAL	X	266	47.761	70.487	46.145	0.00	0.00
ATOM	3983	O	VAL	X	266	47.668	70.029	45.011	0.00	0.00
ATOM	3984	N	ALA	X	267	47.708	71.845	46.310	0.00	0.00
ATOM	3985	H	ALA	X	267	47.749	72.131	47.277	0.00	0.00
ATOM	3986	CA	ALA	X	267	47.774	72.880	45.319	0.00	0.00
ATOM	3987	HA	ALA	X	267	46.902	72.799	44.670	0.00	0.00
ATOM	3988	CB	ALA	X	267	47.665	74.161	46.129	0.00	0.00
ATOM	3989	HB1	ALA	X	267	46.667	74.272	46.553	0.00	0.00
ATOM	3990	HB2	ALA	X	267	47.878	75.039	45.520	0.00	0.00
ATOM	3991	HB3	ALA	X	267	48.433	74.141	46.902	0.00	0.00
ATOM	3992	C	ALA	X	267	49.043	72.796	44.448	0.00	0.00
ATOM	3993	O	ALA	X	267	48.896	72.833	43.201	0.00	0.00
ATOM	3994	N	CYX	X	268	50.197	72.608	45.057	0.00	0.00
ATOM	3995	H	CYX	X	268	50.203	72.524	46.064	0.00	0.00
ATOM	3996	CA	CYX	X	268	51.454	72.597	44.297	0.00	0.00
ATOM	3997	HA	CYX	X	268	51.456	73.470	43.645	0.00	0.00
ATOM	3998	CB	CYX	X	268	52.564	72.765	45.288	0.00	0.00
ATOM	3999	HB2	CYX	X	268	52.639	73.801	45.620	0.00	0.00
ATOM	4000	HB3	CYX	X	268	52.384	72.146	46.167	0.00	0.00
ATOM	4001	SG	CYX	X	268	54.119	72.345	44.553	0.00	0.00
ATOM	4002	C	CYX	X	268	51.467	71.312	43.543	0.00	0.00
ATOM	4003	O	CYX	X	268	51.870	71.274	42.361	0.00	0.00
ATOM	4004	N	LEU	X	269	50.994	70.158	44.206	0.00	0.00
ATOM	4005	H	LEU	X	269	50.701	70.249	45.168	0.00	0.00
ATOM	4006	CA	LEU	X	269	50.903	68.800	43.649	0.00	0.00
ATOM	4007	HA	LEU	X	269	51.874	68.450	43.297	0.00	0.00
ATOM	4008	CB	LEU	X	269	50.537	67.939	44.869	0.00	0.00
ATOM	4009	HB2	LEU	X	269	51.266	68.249	45.618	0.00	0.00
ATOM	4010	HB3	LEU	X	269	49.522	68.150	45.203	0.00	0.00
ATOM	4011	CG	LEU	X	269	50.660	66.409	44.682	0.00	0.00

ATOM	4012	HG	LEU	X	269	49.840	65.985	44.103	0.00	0.00
ATOM	4013	CD1	LEU	X	269	52.082	65.991	44.143	0.00	0.00
ATOM	4014	HD11	LEU	X	269	52.347	66.484	43.207	0.00	0.00
ATOM	4015	HD12	LEU	X	269	52.121	64.923	43.929	0.00	0.00
ATOM	4016	HD13	LEU	X	269	52.860	66.211	44.874	0.00	0.00
ATOM	4017	CD2	LEU	X	269	50.534	65.725	46.144	0.00	0.00
ATOM	4018	HD21	LEU	X	269	50.830	64.677	46.085	0.00	0.00
ATOM	4019	HD22	LEU	X	269	51.205	66.196	46.862	0.00	0.00
ATOM	4020	HD23	LEU	X	269	49.565	65.819	46.632	0.00	0.00
ATOM	4021	C	LEU	X	269	49.950	68.653	42.478	0.00	0.00
ATOM	4022	O	LEU	X	269	50.032	67.589	41.832	0.00	0.00
ATOM	4023	N	ARG	X	270	49.016	69.668	42.248	0.00	0.00
ATOM	4024	H	ARG	X	270	48.802	70.141	43.115	0.00	0.00
ATOM	4025	CA	ARG	X	270	48.276	69.646	41.000	0.00	0.00
ATOM	4026	HA	ARG	X	270	48.277	68.653	40.550	0.00	0.00
ATOM	4027	CB	ARG	X	270	46.786	70.063	41.136	0.00	0.00
ATOM	4028	HB2	ARG	X	270	46.672	71.064	41.551	0.00	0.00
ATOM	4029	HB3	ARG	X	270	46.375	70.130	40.129	0.00	0.00
ATOM	4030	CG	ARG	X	270	45.882	69.095	41.895	0.00	0.00
ATOM	4031	HG2	ARG	X	270	46.021	68.080	41.525	0.00	0.00
ATOM	4032	HG3	ARG	X	270	46.164	69.006	42.944	0.00	0.00
ATOM	4033	CD	ARG	X	270	44.345	69.395	41.919	0.00	0.00
ATOM	4034	HD2	ARG	X	270	44.065	70.090	41.127	0.00	0.00
ATOM	4035	HD3	ARG	X	270	43.767	68.525	41.609	0.00	0.00
ATOM	4036	NE	ARG	X	270	43.751	69.821	43.216	0.00	0.00
ATOM	4037	HE	ARG	X	270	43.875	70.805	43.404	0.00	0.00
ATOM	4038	CZ	ARG	X	270	43.142	69.055	44.120	0.00	0.00
ATOM	4039	NH1	ARG	X	270	42.898	67.765	44.008	0.00	0.00
ATOM	4040	HH11	ARG	X	270	42.991	67.374	43.082	0.00	0.00
ATOM	4041	HH12	ARG	X	270	42.357	67.295	44.720	0.00	0.00
ATOM	4042	NH2	ARG	X	270	42.869	69.535	45.282	0.00	0.00
ATOM	4043	HH21	ARG	X	270	42.766	70.523	45.463	0.00	0.00
ATOM	4044	HH22	ARG	X	270	42.355	68.961	45.935	0.00	0.00
ATOM	4045	C	ARG	X	270	48.914	70.489	39.897	0.00	0.00
ATOM	4046	O	ARG	X	270	48.632	70.199	38.710	0.00	0.00
ATOM	4047	N	THR	X	271	49.682	71.549	40.273	0.00	0.00
ATOM	4048	H	THR	X	271	49.704	71.809	41.249	0.00	0.00
ATOM	4049	CA	THR	X	271	50.442	72.398	39.313	0.00	0.00
ATOM	4050	HA	THR	X	271	49.870	72.608	38.408	0.00	0.00
ATOM	4051	CB	THR	X	271	50.756	73.717	40.033	0.00	0.00
ATOM	4052	HB	THR	X	271	51.406	73.437	40.862	0.00	0.00
ATOM	4053	CG2	THR	X	271	51.459	74.921	39.487	0.00	0.00
ATOM	4054	HG21	THR	X	271	50.902	75.333	38.645	0.00	0.00
ATOM	4055	HG22	THR	X	271	52.450	74.661	39.117	0.00	0.00
ATOM	4056	HG23	THR	X	271	51.560	75.650	40.291	0.00	0.00
ATOM	4057	OG1	THR	X	271	49.568	74.249	40.551	0.00	0.00
ATOM	4058	HG1	THR	X	271	49.743	75.188	40.458	0.00	0.00
ATOM	4059	C	THR	X	271	51.665	71.653	38.869	0.00	0.00
ATOM	4060	O	THR	X	271	51.946	71.744	37.672	0.00	0.00
ATOM	4061	N	ARG	X	272	52.351	70.800	39.669	0.00	0.00
ATOM	4062	H	ARG	X	272	52.162	70.696	40.656	0.00	0.00
ATOM	4063	CA	ARG	X	272	53.480	69.995	39.151	0.00	0.00
ATOM	4064	HA	ARG	X	272	54.131	70.742	38.696	0.00	0.00
ATOM	4065	CB	ARG	X	272	54.172	69.236	40.322	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.390	68.772	40.923	0.00	0.00
ATOM	4067	HB3	ARG	X	272	54.871	68.491	39.944	0.00	0.00
ATOM	4068	CG	ARG	X	272	54.956	70.210	41.239	0.00	0.00
ATOM	4069	HG2	ARG	X	272	54.395	71.140	41.328	0.00	0.00
ATOM	4070	HG3	ARG	X	272	55.096	69.645	42.161	0.00	0.00
ATOM	4071	CD	ARG	X	272	56.389	70.438	40.822	0.00	0.00
ATOM	4072	HD2	ARG	X	272	56.997	69.534	40.815	0.00	0.00
ATOM	4073	HD3	ARG	X	272	56.402	70.848	39.812	0.00	0.00
ATOM	4074	NE	ARG	X	272	57.025	71.412	41.758	0.00	0.00
ATOM	4075	HE	ARG	X	272	57.418	71.003	42.594	0.00	0.00
ATOM	4076	CZ	ARG	X	272	56.928	72.694	41.644	0.00	0.00
ATOM	4077	NH1	ARG	X	272	56.506	73.338	40.562	0.00	0.00
ATOM	4078	HH11	ARG	X	272	56.232	72.935	39.677	0.00	0.00

ATOM	4079	HH12	ARG	X	272	56.758	74.315	40.575	0.00	0.00
ATOM	4080	NH2	ARG	X	272	57.387	73.463	42.625	0.00	0.00
ATOM	4081	HH21	ARG	X	272	57.773	73.123	43.494	0.00	0.00
ATOM	4082	HH22	ARG	X	272	57.441	74.450	42.418	0.00	0.00
ATOM	4083	C	ARG	X	272	52.985	68.956	38.134	0.00	0.00
ATOM	4084	O	ARG	X	272	51.843	68.486	38.286	0.00	0.00
ATOM	4085	N	PRO	X	273	53.831	68.664	37.085	0.00	0.00
ATOM	4086	CD	PRO	X	273	55.098	69.265	36.742	0.00	0.00
ATOM	4087	HD2	PRO	X	273	55.678	69.454	37.645	0.00	0.00
ATOM	4088	HD3	PRO	X	273	54.841	70.184	36.216	0.00	0.00
ATOM	4089	CG	PRO	X	273	55.764	68.515	35.602	0.00	0.00
ATOM	4090	HG2	PRO	X	273	56.429	67.768	36.035	0.00	0.00
ATOM	4091	HG3	PRO	X	273	56.285	69.105	34.847	0.00	0.00
ATOM	4092	CB	PRO	X	273	54.548	67.880	34.878	0.00	0.00
ATOM	4093	HB2	PRO	X	273	54.804	66.901	34.473	0.00	0.00
ATOM	4094	HB3	PRO	X	273	54.255	68.482	34.018	0.00	0.00
ATOM	4095	CA	PRO	X	273	53.462	67.703	36.069	0.00	0.00
ATOM	4096	HA	PRO	X	273	52.473	68.073	35.795	0.00	0.00
ATOM	4097	C	PRO	X	273	53.425	66.191	36.393	0.00	0.00
ATOM	4098	O	PRO	X	273	54.387	65.665	36.923	0.00	0.00
ATOM	4099	N	ALA	X	274	52.282	65.537	36.013	0.00	0.00
ATOM	4100	H	ALA	X	274	51.515	66.035	35.584	0.00	0.00
ATOM	4101	CA	ALA	X	274	52.049	64.070	36.230	0.00	0.00
ATOM	4102	HA	ALA	X	274	51.891	63.821	37.279	0.00	0.00
ATOM	4103	CB	ALA	X	274	50.821	63.795	35.368	0.00	0.00
ATOM	4104	HB1	ALA	X	274	50.476	62.788	35.604	0.00	0.00
ATOM	4105	HB2	ALA	X	274	51.010	63.741	34.295	0.00	0.00
ATOM	4106	HB3	ALA	X	274	50.061	64.547	35.577	0.00	0.00
ATOM	4107	C	ALA	X	274	53.247	63.185	35.953	0.00	0.00
ATOM	4108	O	ALA	X	274	53.507	62.209	36.682	0.00	0.00
ATOM	4109	N	GLN	X	275	53.993	63.531	34.921	0.00	0.00
ATOM	4110	H	GLN	X	275	53.753	64.324	34.343	0.00	0.00
ATOM	4111	CA	GLN	X	275	55.030	62.667	34.412	0.00	0.00
ATOM	4112	HA	GLN	X	275	54.516	61.714	34.292	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.474	63.165	33.037	0.00	0.00
ATOM	4114	HB2	GLN	X	275	54.542	63.388	32.517	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.070	64.066	33.185	0.00	0.00
ATOM	4116	CG	GLN	X	275	56.201	62.097	32.181	0.00	0.00
ATOM	4117	HG2	GLN	X	275	56.726	61.401	32.836	0.00	0.00
ATOM	4118	HG3	GLN	X	275	55.472	61.454	31.688	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.012	62.678	31.059	0.00	0.00
ATOM	4120	OE1	GLN	X	275	56.707	62.408	29.944	0.00	0.00
ATOM	4121	NE2	GLN	X	275	57.980	63.471	31.353	0.00	0.00
ATOM	4122	HE21	GLN	X	275	58.223	64.265	30.778	0.00	0.00
ATOM	4123	HE22	GLN	X	275	58.157	63.530	32.346	0.00	0.00
ATOM	4124	C	GLN	X	275	56.235	62.593	35.487	0.00	0.00
ATOM	4125	O	GLN	X	275	56.929	61.620	35.594	0.00	0.00
ATOM	4126	N	VAL	X	276	56.385	63.665	36.325	0.00	0.00
ATOM	4127	H	VAL	X	276	55.721	64.421	36.233	0.00	0.00
ATOM	4128	CA	VAL	X	276	57.277	63.748	37.527	0.00	0.00
ATOM	4129	HA	VAL	X	276	58.228	63.305	37.232	0.00	0.00
ATOM	4130	CB	VAL	X	276	57.519	65.251	37.992	0.00	0.00
ATOM	4131	HB	VAL	X	276	56.601	65.833	38.069	0.00	0.00
ATOM	4132	CG1	VAL	X	276	58.147	65.306	39.435	0.00	0.00
ATOM	4133	HG11	VAL	X	276	57.415	64.888	40.127	0.00	0.00
ATOM	4134	HG12	VAL	X	276	59.029	64.667	39.418	0.00	0.00
ATOM	4135	HG13	VAL	X	276	58.402	66.298	39.808	0.00	0.00
ATOM	4136	CG2	VAL	X	276	58.557	65.950	37.062	0.00	0.00
ATOM	4137	HG21	VAL	X	276	59.401	65.272	36.934	0.00	0.00
ATOM	4138	HG22	VAL	X	276	58.892	66.883	37.517	0.00	0.00
ATOM	4139	HG23	VAL	X	276	58.238	66.148	36.039	0.00	0.00
ATOM	4140	C	VAL	X	276	56.691	62.897	38.692	0.00	0.00
ATOM	4141	O	VAL	X	276	57.435	62.276	39.430	0.00	0.00
ATOM	4142	N	LEU	X	277	55.337	62.977	38.859	0.00	0.00
ATOM	4143	H	LEU	X	277	54.782	63.456	38.165	0.00	0.00
ATOM	4144	CA	LEU	X	277	54.724	62.357	39.959	0.00	0.00
ATOM	4145	HA	LEU	X	277	55.206	62.705	40.873	0.00	0.00

ATOM	4146	CB	LEU	X	277	53.189	62.826	40.077	0.00	0.00
ATOM	4147	HB2	LEU	X	277	52.650	62.335	39.267	0.00	0.00
ATOM	4148	HB3	LEU	X	277	52.692	62.545	41.006	0.00	0.00
ATOM	4149	CG	LEU	X	277	52.858	64.380	39.990	0.00	0.00
ATOM	4150	HG	LEU	X	277	53.189	64.763	39.024	0.00	0.00
ATOM	4151	CD1	LEU	X	277	51.390	64.796	40.235	0.00	0.00
ATOM	4152	HD11	LEU	X	277	50.751	64.274	39.522	0.00	0.00
ATOM	4153	HD12	LEU	X	277	51.250	65.867	40.093	0.00	0.00
ATOM	4154	HD13	LEU	X	277	51.045	64.493	41.223	0.00	0.00
ATOM	4155	CD2	LEU	X	277	53.785	65.121	40.919	0.00	0.00
ATOM	4156	HD21	LEU	X	277	54.857	64.949	40.823	0.00	0.00
ATOM	4157	HD22	LEU	X	277	53.654	66.203	40.965	0.00	0.00
ATOM	4158	HD23	LEU	X	277	53.535	64.758	41.915	0.00	0.00
ATOM	4159	C	LEU	X	277	54.758	60.883	39.851	0.00	0.00
ATOM	4160	O	LEU	X	277	55.164	60.202	40.746	0.00	0.00
ATOM	4161	N	VAL	X	278	54.565	60.345	38.675	0.00	0.00
ATOM	4162	H	VAL	X	278	54.190	60.837	37.876	0.00	0.00
ATOM	4163	CA	VAL	X	278	54.904	58.940	38.346	0.00	0.00
ATOM	4164	HA	VAL	X	278	54.395	58.259	39.028	0.00	0.00
ATOM	4165	CB	VAL	X	278	54.484	58.725	36.858	0.00	0.00
ATOM	4166	HB	VAL	X	278	54.949	59.412	36.151	0.00	0.00
ATOM	4167	CG1	VAL	X	278	54.769	57.263	36.358	0.00	0.00
ATOM	4168	HG11	VAL	X	278	55.823	57.056	36.544	0.00	0.00
ATOM	4169	HG12	VAL	X	278	54.129	56.549	36.876	0.00	0.00
ATOM	4170	HG13	VAL	X	278	54.572	57.353	35.289	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.991	58.820	36.708	0.00	0.00
ATOM	4172	HG21	VAL	X	278	52.683	58.782	35.663	0.00	0.00
ATOM	4173	HG22	VAL	X	278	52.695	59.773	37.148	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.539	58.097	37.387	0.00	0.00
ATOM	4175	C	VAL	X	278	56.405	58.649	38.477	0.00	0.00
ATOM	4176	O	VAL	X	278	56.782	57.649	38.972	0.00	0.00
ATOM	4177	N	ASN	X	279	57.345	59.569	38.120	0.00	0.00
ATOM	4178	H	ASN	X	279	57.074	60.448	37.703	0.00	0.00
ATOM	4179	CA	ASN	X	279	58.784	59.201	38.217	0.00	0.00
ATOM	4180	HA	ASN	X	279	59.074	58.304	37.671	0.00	0.00
ATOM	4181	CB	ASN	X	279	59.673	60.341	37.618	0.00	0.00
ATOM	4182	HB2	ASN	X	279	59.573	60.369	36.533	0.00	0.00
ATOM	4183	HB3	ASN	X	279	59.450	61.329	38.021	0.00	0.00
ATOM	4184	CG	ASN	X	279	61.122	60.044	37.862	0.00	0.00
ATOM	4185	OD1	ASN	X	279	61.672	60.310	38.880	0.00	0.00
ATOM	4186	ND2	ASN	X	279	61.788	59.358	36.895	0.00	0.00
ATOM	4187	HD21	ASN	X	279	62.777	59.186	37.010	0.00	0.00
ATOM	4188	HD22	ASN	X	279	61.265	59.154	36.056	0.00	0.00
ATOM	4189	C	ASN	X	279	59.196	58.938	39.706	0.00	0.00
ATOM	4190	O	ASN	X	279	59.864	57.943	40.025	0.00	0.00
ATOM	4191	N	HIE	X	280	58.772	59.812	40.606	0.00	0.00
ATOM	4192	H	HIE	X	280	58.129	60.553	40.365	0.00	0.00
ATOM	4193	CA	HIE	X	280	59.049	59.818	42.039	0.00	0.00
ATOM	4194	HA	HIE	X	280	60.066	59.466	42.214	0.00	0.00
ATOM	4195	CB	HIE	X	280	59.043	61.284	42.544	0.00	0.00
ATOM	4196	HB2	HIE	X	280	58.164	61.904	42.368	0.00	0.00
ATOM	4197	HB3	HIE	X	280	59.126	61.258	43.631	0.00	0.00
ATOM	4198	CG	HIE	X	280	60.215	62.065	41.990	0.00	0.00
ATOM	4199	ND1	HIE	X	280	61.517	61.663	41.950	0.00	0.00
ATOM	4200	CE1	HIE	X	280	62.216	62.764	41.738	0.00	0.00
ATOM	4201	HE1	HIE	X	280	63.291	62.846	41.665	0.00	0.00
ATOM	4202	NE2	HIE	X	280	61.436	63.809	41.496	0.00	0.00
ATOM	4203	HE2	HIE	X	280	61.741	64.716	41.174	0.00	0.00
ATOM	4204	CD2	HIE	X	280	60.127	63.413	41.706	0.00	0.00
ATOM	4205	HD2	HIE	X	280	59.231	64.009	41.802	0.00	0.00
ATOM	4206	C	HIE	X	280	58.258	58.919	42.903	0.00	0.00
ATOM	4207	O	HIE	X	280	58.615	58.770	44.049	0.00	0.00
ATOM	4208	N	GLU	X	281	57.155	58.298	42.457	0.00	0.00
ATOM	4209	H	GLU	X	281	56.892	58.487	41.501	0.00	0.00
ATOM	4210	CA	GLU	X	281	56.281	57.446	43.224	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.924	57.950	44.122	0.00	0.00
ATOM	4212	CB	GLU	X	281	54.980	56.963	42.448	0.00	0.00

ATOM	4213	HB2	GLU	X	281	54.502	57.682	41.782	0.00	0.00
ATOM	4214	HB3	GLU	X	281	55.317	56.094	41.882	0.00	0.00
ATOM	4215	CG	GLU	X	281	53.949	56.394	43.442	0.00	0.00
ATOM	4216	HG2	GLU	X	281	54.338	55.493	43.915	0.00	0.00
ATOM	4217	HG3	GLU	X	281	53.709	57.091	44.245	0.00	0.00
ATOM	4218	CD	GLU	X	281	52.633	56.042	42.729	0.00	0.00
ATOM	4219	OE1	GLU	X	281	52.010	56.897	42.090	0.00	0.00
ATOM	4220	OE2	GLU	X	281	52.403	54.843	42.753	0.00	0.00
ATOM	4221	C	GLU	X	281	56.993	56.210	43.681	0.00	0.00
ATOM	4222	O	GLU	X	281	56.697	55.761	44.789	0.00	0.00
ATOM	4223	N	TRP	X	282	57.887	55.681	42.841	0.00	0.00
ATOM	4224	H	TRP	X	282	58.120	56.071	41.939	0.00	0.00
ATOM	4225	CA	TRP	X	282	58.481	54.362	43.133	0.00	0.00
ATOM	4226	HA	TRP	X	282	57.652	53.665	43.258	0.00	0.00
ATOM	4227	CB	TRP	X	282	59.230	53.842	41.902	0.00	0.00
ATOM	4228	HB2	TRP	X	282	58.490	53.822	41.102	0.00	0.00
ATOM	4229	HB3	TRP	X	282	60.102	54.454	41.672	0.00	0.00
ATOM	4230	CG	TRP	X	282	59.746	52.363	42.096	0.00	0.00
ATOM	4231	CD1	TRP	X	282	58.976	51.332	42.085	0.00	0.00
ATOM	4232	HD1	TRP	X	282	57.914	51.350	41.888	0.00	0.00
ATOM	4233	NE1	TRP	X	282	59.706	50.121	42.098	0.00	0.00
ATOM	4234	HE1	TRP	X	282	59.312	49.198	41.982	0.00	0.00
ATOM	4235	CE2	TRP	X	282	61.015	50.412	42.290	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	62.104	49.569	42.633	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	61.982	48.498	42.699	0.00	0.00
ATOM	4238	CH2	TRP	X	282	63.349	50.114	42.758	0.00	0.00
ATOM	4239	HH2	TRP	X	282	64.182	49.445	42.916	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	63.470	51.504	42.794	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	64.456	51.875	43.030	0.00	0.00
ATOM	4242	CE3	TRP	X	282	62.361	52.362	42.673	0.00	0.00
ATOM	4243	HE3	TRP	X	282	62.601	53.415	42.633	0.00	0.00
ATOM	4244	CD2	TRP	X	282	61.083	51.825	42.367	0.00	0.00
ATOM	4245	C	TRP	X	282	59.339	54.353	44.451	0.00	0.00
ATOM	4246	O	TRP	X	282	59.569	53.254	44.987	0.00	0.00
ATOM	4247	N	HIE	X	283	59.677	55.502	44.949	0.00	0.00
ATOM	4248	H	HIE	X	283	59.302	56.323	44.497	0.00	0.00
ATOM	4249	CA	HIE	X	283	60.286	55.697	46.324	0.00	0.00
ATOM	4250	HA	HIE	X	283	60.945	54.839	46.462	0.00	0.00
ATOM	4251	CB	HIE	X	283	61.085	57.045	46.275	0.00	0.00
ATOM	4252	HB2	HIE	X	283	60.353	57.851	46.218	0.00	0.00
ATOM	4253	HB3	HIE	X	283	61.454	57.096	47.300	0.00	0.00
ATOM	4254	CG	HIE	X	283	62.126	57.047	45.300	0.00	0.00
ATOM	4255	ND1	HIE	X	283	63.307	56.310	45.282	0.00	0.00
ATOM	4256	CE1	HIE	X	283	63.975	56.517	44.092	0.00	0.00
ATOM	4257	HE1	HIE	X	283	64.979	56.160	43.914	0.00	0.00
ATOM	4258	NE2	HIE	X	283	63.249	57.300	43.328	0.00	0.00
ATOM	4259	HE2	HIE	X	283	63.430	57.648	42.397	0.00	0.00
ATOM	4260	CD2	HIE	X	283	62.120	57.676	44.063	0.00	0.00
ATOM	4261	HD2	HIE	X	283	61.258	58.239	43.737	0.00	0.00
ATOM	4262	C	HIE	X	283	59.275	55.817	47.476	0.00	0.00
ATOM	4263	O	HIE	X	283	59.798	55.757	48.594	0.00	0.00
ATOM	4264	N	VAL	X	284	57.971	55.940	47.272	0.00	0.00
ATOM	4265	H	VAL	X	284	57.561	55.941	46.349	0.00	0.00
ATOM	4266	CA	VAL	X	284	56.973	55.817	48.300	0.00	0.00
ATOM	4267	HA	VAL	X	284	57.504	55.929	49.245	0.00	0.00
ATOM	4268	CB	VAL	X	284	56.075	56.991	48.358	0.00	0.00
ATOM	4269	HB	VAL	X	284	55.335	56.979	49.159	0.00	0.00
ATOM	4270	CG1	VAL	X	284	56.928	58.260	48.548	0.00	0.00
ATOM	4271	HG11	VAL	X	284	57.488	58.501	47.644	0.00	0.00
ATOM	4272	HG12	VAL	X	284	56.379	59.161	48.820	0.00	0.00
ATOM	4273	HG13	VAL	X	284	57.657	58.223	49.357	0.00	0.00
ATOM	4274	CG2	VAL	X	284	55.180	57.147	47.128	0.00	0.00
ATOM	4275	HG21	VAL	X	284	55.767	57.551	46.303	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.487	57.937	47.414	0.00	0.00
ATOM	4277	HG23	VAL	X	284	54.548	56.287	46.906	0.00	0.00
ATOM	4278	C	VAL	X	284	56.198	54.494	48.448	0.00	0.00
ATOM	4279	O	VAL	X	284	55.232	54.410	49.197	0.00	0.00

ATOM	4280	N	LEU	X	285	56.672	53.474	47.754	0.00	0.00
ATOM	4281	H	LEU	X	285	57.533	53.645	47.255	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.307	52.060	47.977	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.267	52.050	48.304	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.413	51.393	46.612	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.834	52.015	45.930	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.411	51.510	46.191	0.00	0.00
ATOM	4287	CG	LEU	X	285	56.062	49.882	46.619	0.00	0.00
ATOM	4288	HG	LEU	X	285	55.228	49.706	47.298	0.00	0.00
ATOM	4289	CD1	LEU	X	285	55.758	49.584	45.128	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.878	50.100	44.743	0.00	0.00
ATOM	4291	HD12	LEU	X	285	55.506	48.529	45.029	0.00	0.00
ATOM	4292	HD13	LEU	X	285	56.594	49.886	44.498	0.00	0.00
ATOM	4293	CD2	LEU	X	285	57.084	48.860	47.201	0.00	0.00
ATOM	4294	HD21	LEU	X	285	56.774	47.816	47.152	0.00	0.00
ATOM	4295	HD22	LEU	X	285	58.010	48.880	46.626	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.222	48.955	48.278	0.00	0.00
ATOM	4297	C	LEU	X	285	57.267	51.452	49.054	0.00	0.00
ATOM	4298	O	LEU	X	285	58.486	51.682	48.871	0.00	0.00
ATOM	4299	N	PRO	X	286	56.802	50.793	50.148	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.491	50.339	50.275	0.00	0.00
ATOM	4301	HD2	PRO	X	286	55.078	49.668	49.522	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.892	51.239	50.419	0.00	0.00
ATOM	4303	CG	PRO	X	286	55.523	49.524	51.598	0.00	0.00
ATOM	4304	HG2	PRO	X	286	55.883	48.505	51.452	0.00	0.00
ATOM	4305	HG3	PRO	X	286	54.572	49.465	52.127	0.00	0.00
ATOM	4306	CB	PRO	X	286	56.568	50.274	52.379	0.00	0.00
ATOM	4307	HB2	PRO	X	286	57.058	49.611	53.092	0.00	0.00
ATOM	4308	HB3	PRO	X	286	56.144	51.158	52.855	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.585	50.697	51.337	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.998	51.654	51.656	0.00	0.00
ATOM	4311	C	PRO	X	286	58.833	49.884	51.102	0.00	0.00
ATOM	4312	O	PRO	X	286	58.963	49.060	50.136	0.00	0.00
ATOM	4313	N	GLN	X	287	59.648	49.831	52.118	0.00	0.00
ATOM	4314	H	GLN	X	287	59.624	50.489	52.885	0.00	0.00
ATOM	4315	CA	GLN	X	287	60.918	49.053	52.181	0.00	0.00
ATOM	4316	HA	GLN	X	287	61.122	48.488	51.271	0.00	0.00
ATOM	4317	CB	GLN	X	287	62.026	49.994	52.593	0.00	0.00
ATOM	4318	HB2	GLN	X	287	61.752	50.401	53.566	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.983	49.487	52.717	0.00	0.00
ATOM	4320	CG	GLN	X	287	62.308	51.285	51.732	0.00	0.00
ATOM	4321	HG2	GLN	X	287	62.421	50.895	50.720	0.00	0.00
ATOM	4322	HG3	GLN	X	287	61.421	51.919	51.717	0.00	0.00
ATOM	4323	CD	GLN	X	287	63.521	52.143	52.136	0.00	0.00
ATOM	4324	OE1	GLN	X	287	64.371	51.680	52.896	0.00	0.00
ATOM	4325	NE2	GLN	X	287	63.724	53.351	51.717	0.00	0.00
ATOM	4326	HE21	GLN	X	287	64.419	53.980	52.093	0.00	0.00
ATOM	4327	HE22	GLN	X	287	63.102	53.663	50.986	0.00	0.00
ATOM	4328	C	GLN	X	287	60.914	48.052	53.330	0.00	0.00
ATOM	4329	O	GLN	X	287	60.233	48.287	54.309	0.00	0.00
ATOM	4330	N	GLU	X	288	61.686	46.940	53.322	0.00	0.00
ATOM	4331	H	GLU	X	288	62.288	46.701	52.546	0.00	0.00
ATOM	4332	CA	GLU	X	288	61.622	45.906	54.416	0.00	0.00
ATOM	4333	HA	GLU	X	288	62.471	45.241	54.255	0.00	0.00
ATOM	4334	CB	GLU	X	288	61.944	46.472	55.858	0.00	0.00
ATOM	4335	HB2	GLU	X	288	61.079	47.013	56.241	0.00	0.00
ATOM	4336	HB3	GLU	X	288	62.076	45.539	56.407	0.00	0.00
ATOM	4337	CG	GLU	X	288	63.168	47.374	55.967	0.00	0.00
ATOM	4338	HG2	GLU	X	288	64.072	46.972	55.509	0.00	0.00
ATOM	4339	HG3	GLU	X	288	62.908	48.275	55.412	0.00	0.00
ATOM	4340	CD	GLU	X	288	63.544	47.543	57.395	0.00	0.00
ATOM	4341	OE1	GLU	X	288	62.923	48.521	57.988	0.00	0.00
ATOM	4342	OE2	GLU	X	288	64.358	46.735	57.906	0.00	0.00
ATOM	4343	C	GLU	X	288	60.269	45.148	54.361	0.00	0.00
ATOM	4344	O	GLU	X	288	59.618	44.790	55.374	0.00	0.00
ATOM	4345	N	SER	X	289	59.735	45.075	53.148	0.00	0.00
ATOM	4346	H	SER	X	289	60.334	45.060	52.335	0.00	0.00

ATOM	4347	CA	SER	X	289	58.241	44.761	52.883	0.00	0.00
ATOM	4348	HA	SER	X	289	57.866	44.169	53.718	0.00	0.00
ATOM	4349	CB	SER	X	289	57.564	46.085	52.641	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.945	46.602	51.761	0.00	0.00
ATOM	4351	HB3	SER	X	289	56.523	45.973	52.339	0.00	0.00
ATOM	4352	OG	SER	X	289	57.646	47.002	53.670	0.00	0.00
ATOM	4353	HG	SER	X	289	58.396	46.804	54.236	0.00	0.00
ATOM	4354	C	SER	X	289	57.932	43.763	51.681	0.00	0.00
ATOM	4355	O	SER	X	289	58.647	43.883	50.657	0.00	0.00
ATOM	4356	N	VAL	X	290	56.954	42.918	51.729	0.00	0.00
ATOM	4357	H	VAL	X	290	56.451	42.841	52.601	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.546	42.051	50.610	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.884	42.465	49.660	0.00	0.00
ATOM	4360	CB	VAL	X	290	57.168	40.621	50.863	0.00	0.00
ATOM	4361	HB	VAL	X	290	56.681	40.112	51.695	0.00	0.00
ATOM	4362	CG1	VAL	X	290	56.983	39.777	49.646	0.00	0.00
ATOM	4363	HG11	VAL	X	290	57.366	40.285	48.760	0.00	0.00
ATOM	4364	HG12	VAL	X	290	57.518	38.828	49.695	0.00	0.00
ATOM	4365	HG13	VAL	X	290	55.932	39.714	49.365	0.00	0.00
ATOM	4366	CG2	VAL	X	290	58.715	40.672	51.195	0.00	0.00
ATOM	4367	HG21	VAL	X	290	59.102	39.669	51.017	0.00	0.00
ATOM	4368	HG22	VAL	X	290	58.889	41.059	52.198	0.00	0.00
ATOM	4369	HG23	VAL	X	290	59.227	41.333	50.496	0.00	0.00
ATOM	4370	C	VAL	X	290	55.004	42.043	50.473	0.00	0.00
ATOM	4371	O	VAL	X	290	54.243	41.720	51.402	0.00	0.00
ATOM	4372	N	PHE	X	291	54.549	42.101	49.164	0.00	0.00
ATOM	4373	H	PHE	X	291	55.204	42.294	48.419	0.00	0.00
ATOM	4374	CA	PHE	X	291	53.082	42.072	48.815	0.00	0.00
ATOM	4375	HA	PHE	X	291	53.098	41.911	47.737	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.261	40.953	49.449	0.00	0.00
ATOM	4377	HB2	PHE	X	291	52.905	40.198	49.900	0.00	0.00
ATOM	4378	HB3	PHE	X	291	51.657	41.356	50.262	0.00	0.00
ATOM	4379	CG	PHE	X	291	51.343	40.192	48.540	0.00	0.00
ATOM	4380	CD1	PHE	X	291	50.093	40.691	48.124	0.00	0.00
ATOM	4381	HD1	PHE	X	291	49.675	41.643	48.417	0.00	0.00
ATOM	4382	CE1	PHE	X	291	49.218	39.899	47.402	0.00	0.00
ATOM	4383	HE1	PHE	X	291	48.261	40.328	47.142	0.00	0.00
ATOM	4384	CZ	PHE	X	291	49.568	38.546	47.083	0.00	0.00
ATOM	4385	HZ	PHE	X	291	48.816	37.975	46.561	0.00	0.00
ATOM	4386	CE2	PHE	X	291	50.782	38.004	47.611	0.00	0.00
ATOM	4387	HE2	PHE	X	291	51.064	37.002	47.323	0.00	0.00
ATOM	4388	CD2	PHE	X	291	51.738	38.872	48.173	0.00	0.00
ATOM	4389	HD2	PHE	X	291	52.655	38.550	48.644	0.00	0.00
ATOM	4390	C	PHE	X	291	52.465	43.507	48.918	0.00	0.00
ATOM	4391	O	PHE	X	291	51.249	43.518	49.023	0.00	0.00
ATOM	4392	N	ARG	X	292	53.220	44.635	48.874	0.00	0.00
ATOM	4393	H	ARG	X	292	54.157	44.566	48.504	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.804	45.915	49.383	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.715	45.902	49.342	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.300	46.125	50.833	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.358	46.335	50.988	0.00	0.00
ATOM	4398	HB3	ARG	X	292	52.945	47.116	51.118	0.00	0.00
ATOM	4399	CG	ARG	X	292	52.818	45.119	51.929	0.00	0.00
ATOM	4400	HG2	ARG	X	292	52.979	44.116	51.535	0.00	0.00
ATOM	4401	HG3	ARG	X	292	53.457	45.315	52.790	0.00	0.00
ATOM	4402	CD	ARG	X	292	51.372	45.296	52.356	0.00	0.00
ATOM	4403	HD2	ARG	X	292	51.327	46.172	53.004	0.00	0.00
ATOM	4404	HD3	ARG	X	292	50.717	45.416	51.493	0.00	0.00
ATOM	4405	NE	ARG	X	292	50.800	44.127	53.093	0.00	0.00
ATOM	4406	HE	ARG	X	292	50.849	43.308	52.505	0.00	0.00
ATOM	4407	CZ	ARG	X	292	50.362	44.034	54.324	0.00	0.00
ATOM	4408	NH1	ARG	X	292	50.240	44.984	55.211	0.00	0.00
ATOM	4409	HH11	ARG	X	292	50.507	45.932	54.990	0.00	0.00
ATOM	4410	HH12	ARG	X	292	49.851	44.874	56.136	0.00	0.00
ATOM	4411	NH2	ARG	X	292	49.970	42.801	54.753	0.00	0.00
ATOM	4412	HH21	ARG	X	292	50.136	41.986	54.179	0.00	0.00
ATOM	4413	HH22	ARG	X	292	49.556	42.680	55.666	0.00	0.00

ATOM	4414	C	ARG	X	292	53.240	47.092	48.539	0.00	0.00
ATOM	4415	O	ARG	X	292	54.410	47.295	48.254	0.00	0.00
ATOM	4416	N	PHE	X	293	52.321	47.960	48.195	0.00	0.00
ATOM	4417	H	PHE	X	293	51.384	47.756	48.511	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.493	48.825	47.025	0.00	0.00
ATOM	4419	HA	PHE	X	293	53.436	48.667	46.502	0.00	0.00
ATOM	4420	CB	PHE	X	293	51.332	48.534	46.038	0.00	0.00
ATOM	4421	HB2	PHE	X	293	50.363	48.751	46.487	0.00	0.00
ATOM	4422	HB3	PHE	X	293	51.333	49.218	45.190	0.00	0.00
ATOM	4423	CG	PHE	X	293	51.305	47.063	45.633	0.00	0.00
ATOM	4424	CD1	PHE	X	293	52.374	46.434	44.960	0.00	0.00
ATOM	4425	HD1	PHE	X	293	53.236	47.044	44.737	0.00	0.00
ATOM	4426	CE1	PHE	X	293	52.186	45.084	44.596	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.916	44.585	43.975	0.00	0.00
ATOM	4428	CZ	PHE	X	293	51.118	44.357	45.096	0.00	0.00
ATOM	4429	HZ	PHE	X	293	50.986	43.297	44.939	0.00	0.00
ATOM	4430	CE2	PHE	X	293	50.064	44.999	45.810	0.00	0.00
ATOM	4431	HE2	PHE	X	293	49.226	44.362	46.049	0.00	0.00
ATOM	4432	CD2	PHE	X	293	50.185	46.384	46.065	0.00	0.00
ATOM	4433	HD2	PHE	X	293	49.313	46.858	46.491	0.00	0.00
ATOM	4434	C	PHE	X	293	52.421	50.280	47.457	0.00	0.00
ATOM	4435	O	PHE	X	293	52.374	50.555	48.646	0.00	0.00
ATOM	4436	N	SER	X	294	52.537	51.268	46.529	0.00	0.00
ATOM	4437	H	SER	X	294	52.692	51.086	45.548	0.00	0.00
ATOM	4438	CA	SER	X	294	52.747	52.675	46.919	0.00	0.00
ATOM	4439	HA	SER	X	294	53.366	52.819	47.804	0.00	0.00
ATOM	4440	CB	SER	X	294	53.440	53.439	45.746	0.00	0.00
ATOM	4441	HB2	SER	X	294	53.253	54.506	45.868	0.00	0.00
ATOM	4442	HB3	SER	X	294	54.519	53.279	45.753	0.00	0.00
ATOM	4443	OG	SER	X	294	52.974	52.927	44.536	0.00	0.00
ATOM	4444	HG	SER	X	294	52.811	53.574	43.846	0.00	0.00
ATOM	4445	C	SER	X	294	51.417	53.441	47.244	0.00	0.00
ATOM	4446	O	SER	X	294	51.462	54.175	48.226	0.00	0.00
ATOM	4447	N	PHE	X	295	50.275	53.278	46.589	0.00	0.00
ATOM	4448	H	PHE	X	295	50.287	52.593	45.847	0.00	0.00
ATOM	4449	CA	PHE	X	295	49.074	54.029	46.806	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.979	54.312	47.854	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.989	55.327	45.995	0.00	0.00
ATOM	4452	HB2	PHE	X	295	49.259	55.033	44.981	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.976	55.713	46.111	0.00	0.00
ATOM	4454	CG	PHE	X	295	49.902	56.497	46.380	0.00	0.00
ATOM	4455	CD1	PHE	X	295	49.490	57.215	47.569	0.00	0.00
ATOM	4456	HD1	PHE	X	295	48.562	56.946	48.051	0.00	0.00
ATOM	4457	CE1	PHE	X	295	50.322	58.261	48.076	0.00	0.00
ATOM	4458	HE1	PHE	X	295	49.970	58.842	48.916	0.00	0.00
ATOM	4459	CZ	PHE	X	295	51.410	58.658	47.267	0.00	0.00
ATOM	4460	HZ	PHE	X	295	51.843	59.556	47.682	0.00	0.00
ATOM	4461	CE2	PHE	X	295	51.773	57.940	46.157	0.00	0.00
ATOM	4462	HE2	PHE	X	295	52.630	58.199	45.554	0.00	0.00
ATOM	4463	CD2	PHE	X	295	51.008	56.865	45.674	0.00	0.00
ATOM	4464	HD2	PHE	X	295	51.163	56.338	44.744	0.00	0.00
ATOM	4465	C	PHE	X	295	47.892	53.173	46.423	0.00	0.00
ATOM	4466	O	PHE	X	295	47.824	52.489	45.386	0.00	0.00
ATOM	4467	N	VAL	X	296	46.991	53.162	47.413	0.00	0.00
ATOM	4468	H	VAL	X	296	47.198	53.745	48.211	0.00	0.00
ATOM	4469	CA	VAL	X	296	46.038	52.046	47.676	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.891	51.433	46.786	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.767	51.166	48.710	0.00	0.00
ATOM	4472	HB	VAL	X	296	47.292	51.770	49.451	0.00	0.00
ATOM	4473	CG1	VAL	X	296	45.786	50.139	49.402	0.00	0.00
ATOM	4474	HG11	VAL	X	296	45.002	50.714	49.895	0.00	0.00
ATOM	4475	HG12	VAL	X	296	45.257	49.469	48.725	0.00	0.00
ATOM	4476	HG13	VAL	X	296	46.257	49.457	50.109	0.00	0.00
ATOM	4477	CG2	VAL	X	296	47.766	50.229	48.028	0.00	0.00
ATOM	4478	HG21	VAL	X	296	48.534	50.778	47.483	0.00	0.00
ATOM	4479	HG22	VAL	X	296	47.273	49.545	47.337	0.00	0.00
ATOM	4480	HG23	VAL	X	296	48.271	49.579	48.742	0.00	0.00

ATOM	4481	C	VAL	X	296	44.688	52.578	48.185	0.00	0.00
ATOM	4482	O	VAL	X	296	44.659	53.742	48.663	0.00	0.00
ATOM	4483	N	PRO	X	297	43.563	51.773	48.120	0.00	0.00
ATOM	4484	CD	PRO	X	297	43.398	50.672	47.162	0.00	0.00
ATOM	4485	HD2	PRO	X	297	44.140	49.889	47.312	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.668	51.040	46.172	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.911	50.377	47.270	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.806	49.299	47.393	0.00	0.00
ATOM	4489	HG3	PRO	X	297	41.599	50.748	46.294	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.336	51.102	48.385	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.247	50.417	49.229	0.00	0.00
ATOM	4492	HB3	PRO	X	297	40.362	51.492	48.090	0.00	0.00
ATOM	4493	CA	PRO	X	297	42.298	52.243	48.687	0.00	0.00
ATOM	4494	HA	PRO	X	297	42.010	53.133	48.127	0.00	0.00
ATOM	4495	C	PRO	X	297	42.406	52.561	50.190	0.00	0.00
ATOM	4496	O	PRO	X	297	43.159	51.967	50.931	0.00	0.00
ATOM	4497	N	VAL	X	298	41.686	53.579	50.608	0.00	0.00
ATOM	4498	H	VAL	X	298	41.039	54.020	49.969	0.00	0.00
ATOM	4499	CA	VAL	X	298	41.717	54.196	51.948	0.00	0.00
ATOM	4500	HA	VAL	X	298	42.356	53.603	52.603	0.00	0.00
ATOM	4501	CB	VAL	X	298	42.237	55.633	51.887	0.00	0.00
ATOM	4502	HB	VAL	X	298	41.445	56.235	51.441	0.00	0.00
ATOM	4503	CG1	VAL	X	298	42.425	56.332	53.208	0.00	0.00
ATOM	4504	HG11	VAL	X	298	42.809	57.332	53.006	0.00	0.00
ATOM	4505	HG12	VAL	X	298	41.466	56.427	53.718	0.00	0.00
ATOM	4506	HG13	VAL	X	298	43.178	55.782	53.773	0.00	0.00
ATOM	4507	CG2	VAL	X	298	43.535	55.745	51.029	0.00	0.00
ATOM	4508	HG21	VAL	X	298	44.356	55.238	51.537	0.00	0.00
ATOM	4509	HG22	VAL	X	298	43.736	56.799	50.837	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.267	55.223	50.111	0.00	0.00
ATOM	4511	C	VAL	X	298	40.323	54.162	52.578	0.00	0.00
ATOM	4512	O	VAL	X	298	39.319	54.256	51.859	0.00	0.00
ATOM	4513	N	VAL	X	299	40.293	53.928	53.916	0.00	0.00
ATOM	4514	H	VAL	X	299	41.181	53.756	54.364	0.00	0.00
ATOM	4515	CA	VAL	X	299	39.116	54.135	54.823	0.00	0.00
ATOM	4516	HA	VAL	X	299	38.242	53.867	54.229	0.00	0.00
ATOM	4517	CB	VAL	X	299	39.162	53.251	56.144	0.00	0.00
ATOM	4518	HB	VAL	X	299	40.070	53.503	56.692	0.00	0.00
ATOM	4519	CG1	VAL	X	299	37.961	53.586	57.069	0.00	0.00
ATOM	4520	HG11	VAL	X	299	38.053	53.088	58.035	0.00	0.00
ATOM	4521	HG12	VAL	X	299	37.969	54.618	57.419	0.00	0.00
ATOM	4522	HG13	VAL	X	299	37.005	53.478	56.558	0.00	0.00
ATOM	4523	CG2	VAL	X	299	39.066	51.707	55.985	0.00	0.00
ATOM	4524	HG21	VAL	X	299	39.109	51.278	56.986	0.00	0.00
ATOM	4525	HG22	VAL	X	299	39.864	51.205	55.438	0.00	0.00
ATOM	4526	HG23	VAL	X	299	38.095	51.502	55.534	0.00	0.00
ATOM	4527	C	VAL	X	299	38.988	55.614	55.038	0.00	0.00
ATOM	4528	O	VAL	X	299	39.682	56.160	55.855	0.00	0.00
ATOM	4529	N	ASP	X	300	38.305	56.324	54.130	0.00	0.00
ATOM	4530	H	ASP	X	300	37.752	55.863	53.422	0.00	0.00
ATOM	4531	CA	ASP	X	300	38.371	57.743	54.039	0.00	0.00
ATOM	4532	HA	ASP	X	300	39.361	58.151	54.244	0.00	0.00
ATOM	4533	CB	ASP	X	300	38.293	58.162	52.563	0.00	0.00
ATOM	4534	HB2	ASP	X	300	38.533	59.208	52.374	0.00	0.00
ATOM	4535	HB3	ASP	X	300	39.060	57.560	52.075	0.00	0.00
ATOM	4536	CG	ASP	X	300	36.987	57.900	51.944	0.00	0.00
ATOM	4537	OD1	ASP	X	300	36.423	56.795	51.928	0.00	0.00
ATOM	4538	OD2	ASP	X	300	36.481	58.809	51.272	0.00	0.00
ATOM	4539	C	ASP	X	300	37.285	58.501	54.783	0.00	0.00
ATOM	4540	O	ASP	X	300	37.469	59.649	55.274	0.00	0.00
ATOM	4541	N	GLY	X	301	36.179	57.798	54.949	0.00	0.00
ATOM	4542	H	GLY	X	301	36.192	56.853	54.591	0.00	0.00
ATOM	4543	CA	GLY	X	301	34.959	58.277	55.627	0.00	0.00
ATOM	4544	HA2	GLY	X	301	34.889	57.613	56.489	0.00	0.00
ATOM	4545	HA3	GLY	X	301	35.141	59.319	55.888	0.00	0.00
ATOM	4546	C	GLY	X	301	33.618	58.161	54.796	0.00	0.00
ATOM	4547	O	GLY	X	301	32.530	58.408	55.336	0.00	0.00

ATOM	4548	N	ASP	X	302	33.798	57.913	53.524	0.00	0.00
ATOM	4549	H	ASP	X	302	34.698	57.625	53.167	0.00	0.00
ATOM	4550	CA	ASP	X	302	32.702	58.156	52.629	0.00	0.00
ATOM	4551	HA	ASP	X	302	31.759	58.059	53.167	0.00	0.00
ATOM	4552	CB	ASP	X	302	32.770	59.594	52.130	0.00	0.00
ATOM	4553	HB2	ASP	X	302	32.988	60.256	52.967	0.00	0.00
ATOM	4554	HB3	ASP	X	302	33.706	59.635	51.572	0.00	0.00
ATOM	4555	CG	ASP	X	302	31.559	60.047	51.308	0.00	0.00
ATOM	4556	OD1	ASP	X	302	31.717	61.089	50.598	0.00	0.00
ATOM	4557	OD2	ASP	X	302	30.501	59.453	51.452	0.00	0.00
ATOM	4558	C	ASP	X	302	32.640	57.112	51.528	0.00	0.00
ATOM	4559	O	ASP	X	302	31.591	56.548	51.163	0.00	0.00
ATOM	4560	N	PHE	X	303	33.830	56.758	50.890	0.00	0.00
ATOM	4561	H	PHE	X	303	34.659	57.241	51.206	0.00	0.00
ATOM	4562	CA	PHE	X	303	34.012	55.507	50.067	0.00	0.00
ATOM	4563	HA	PHE	X	303	33.146	55.509	49.405	0.00	0.00
ATOM	4564	CB	PHE	X	303	35.352	55.550	49.258	0.00	0.00
ATOM	4565	HB2	PHE	X	303	35.636	56.523	48.857	0.00	0.00
ATOM	4566	HB3	PHE	X	303	36.086	55.162	49.964	0.00	0.00
ATOM	4567	CG	PHE	X	303	35.339	54.632	48.076	0.00	0.00
ATOM	4568	CD1	PHE	X	303	35.842	53.283	48.147	0.00	0.00
ATOM	4569	HD1	PHE	X	303	36.503	52.928	48.924	0.00	0.00
ATOM	4570	CE1	PHE	X	303	35.562	52.362	47.106	0.00	0.00
ATOM	4571	HE1	PHE	X	303	35.917	51.346	47.197	0.00	0.00
ATOM	4572	CZ	PHE	X	303	34.799	52.659	45.977	0.00	0.00
ATOM	4573	HZ	PHE	X	303	34.791	51.926	45.184	0.00	0.00
ATOM	4574	CE2	PHE	X	303	34.331	53.979	45.913	0.00	0.00
ATOM	4575	HE2	PHE	X	303	33.848	54.269	44.992	0.00	0.00
ATOM	4576	CD2	PHE	X	303	34.503	54.914	46.966	0.00	0.00
ATOM	4577	HD2	PHE	X	303	34.156	55.935	46.894	0.00	0.00
ATOM	4578	C	PHE	X	303	33.971	54.289	51.019	0.00	0.00
ATOM	4579	O	PHE	X	303	33.378	53.281	50.631	0.00	0.00
ATOM	4580	N	LEU	X	304	34.584	54.328	52.172	0.00	0.00
ATOM	4581	H	LEU	X	304	35.030	55.210	52.382	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.610	53.291	53.174	0.00	0.00
ATOM	4583	HA	LEU	X	304	33.803	52.595	52.944	0.00	0.00
ATOM	4584	CB	LEU	X	304	35.975	52.551	52.982	0.00	0.00
ATOM	4585	HB2	LEU	X	304	36.764	53.287	52.823	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.108	51.940	53.875	0.00	0.00
ATOM	4587	CG	LEU	X	304	36.019	51.601	51.758	0.00	0.00
ATOM	4588	HG	LEU	X	304	35.576	52.059	50.873	0.00	0.00
ATOM	4589	CD1	LEU	X	304	37.464	51.188	51.593	0.00	0.00
ATOM	4590	HD11	LEU	X	304	37.584	50.644	50.656	0.00	0.00
ATOM	4591	HD12	LEU	X	304	37.733	50.635	52.493	0.00	0.00
ATOM	4592	HD13	LEU	X	304	38.069	52.094	51.570	0.00	0.00
ATOM	4593	CD2	LEU	X	304	35.215	50.335	52.169	0.00	0.00
ATOM	4594	HD21	LEU	X	304	35.712	49.814	52.988	0.00	0.00
ATOM	4595	HD22	LEU	X	304	34.189	50.643	52.370	0.00	0.00
ATOM	4596	HD23	LEU	X	304	35.087	49.704	51.290	0.00	0.00
ATOM	4597	C	LEU	X	304	34.273	53.773	54.588	0.00	0.00
ATOM	4598	O	LEU	X	304	34.449	54.945	54.895	0.00	0.00
ATOM	4599	N	SER	X	305	33.676	52.916	55.447	0.00	0.00
ATOM	4600	H	SER	X	305	33.330	52.022	55.128	0.00	0.00
ATOM	4601	CA	SER	X	305	33.364	53.290	56.836	0.00	0.00
ATOM	4602	HA	SER	X	305	33.538	54.360	56.956	0.00	0.00
ATOM	4603	CB	SER	X	305	31.890	52.905	57.067	0.00	0.00
ATOM	4604	HB2	SER	X	305	31.736	53.340	58.054	0.00	0.00
ATOM	4605	HB3	SER	X	305	31.176	53.320	56.356	0.00	0.00
ATOM	4606	OG	SER	X	305	31.642	51.493	57.276	0.00	0.00
ATOM	4607	HG	SER	X	305	31.650	51.354	58.225	0.00	0.00
ATOM	4608	C	SER	X	305	34.254	52.686	57.818	0.00	0.00
ATOM	4609	O	SER	X	305	34.397	53.186	58.963	0.00	0.00
ATOM	4610	N	ASP	X	306	34.989	51.595	57.493	0.00	0.00
ATOM	4611	H	ASP	X	306	34.756	51.276	56.563	0.00	0.00
ATOM	4612	CA	ASP	X	306	36.002	50.755	58.202	0.00	0.00
ATOM	4613	HA	ASP	X	306	36.779	51.376	58.646	0.00	0.00
ATOM	4614	CB	ASP	X	306	35.236	50.093	59.350	0.00	0.00

ATOM	4615	HB2	ASP	X	306	34.597	50.810	59.867	0.00	0.00
ATOM	4616	HB3	ASP	X	306	34.460	49.465	58.912	0.00	0.00
ATOM	4617	CG	ASP	X	306	35.943	49.313	60.373	0.00	0.00
ATOM	4618	OD1	ASP	X	306	35.162	48.749	61.193	0.00	0.00
ATOM	4619	OD2	ASP	X	306	37.196	49.198	60.454	0.00	0.00
ATOM	4620	C	ASP	X	306	36.621	49.809	57.219	0.00	0.00
ATOM	4621	O	ASP	X	306	36.243	49.724	56.070	0.00	0.00
ATOM	4622	N	THR	X	307	37.616	49.005	57.619	0.00	0.00
ATOM	4623	H	THR	X	307	37.936	49.008	58.577	0.00	0.00
ATOM	4624	CA	THR	X	307	38.405	48.172	56.751	0.00	0.00
ATOM	4625	HA	THR	X	307	38.753	48.794	55.927	0.00	0.00
ATOM	4626	CB	THR	X	307	39.652	47.798	57.479	0.00	0.00
ATOM	4627	HB	THR	X	307	40.235	47.033	56.967	0.00	0.00
ATOM	4628	CG2	THR	X	307	40.640	48.965	57.748	0.00	0.00
ATOM	4629	HG21	THR	X	307	40.949	49.365	56.782	0.00	0.00
ATOM	4630	HG22	THR	X	307	41.455	48.501	58.303	0.00	0.00
ATOM	4631	HG23	THR	X	307	40.213	49.738	58.387	0.00	0.00
ATOM	4632	OG1	THR	X	307	39.290	47.114	58.635	0.00	0.00
ATOM	4633	HG1	THR	X	307	40.057	46.642	58.967	0.00	0.00
ATOM	4634	C	THR	X	307	37.629	46.946	56.333	0.00	0.00
ATOM	4635	O	THR	X	307	36.811	46.428	57.049	0.00	0.00
ATOM	4636	N	PRO	X	308	37.751	46.449	55.068	0.00	0.00
ATOM	4637	CD	PRO	X	308	38.509	47.134	54.018	0.00	0.00
ATOM	4638	HD2	PRO	X	308	39.562	47.126	54.299	0.00	0.00
ATOM	4639	HD3	PRO	X	308	38.098	48.143	54.064	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.118	46.379	52.766	0.00	0.00
ATOM	4641	HG2	PRO	X	308	38.895	46.393	52.001	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.240	46.803	52.279	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.855	44.928	53.237	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.800	44.476	53.539	0.00	0.00
ATOM	4645	HB3	PRO	X	308	37.266	44.454	52.452	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.090	45.220	54.525	0.00	0.00
ATOM	4647	HA	PRO	X	308	36.103	45.516	54.171	0.00	0.00
ATOM	4648	C	PRO	X	308	37.159	43.975	55.436	0.00	0.00
ATOM	4649	O	PRO	X	308	36.116	43.319	55.487	0.00	0.00
ATOM	4650	N	GLU	X	309	38.219	43.737	56.242	0.00	0.00
ATOM	4651	H	GLU	X	309	39.057	44.286	56.112	0.00	0.00
ATOM	4652	CA	GLU	X	309	38.342	42.809	57.339	0.00	0.00
ATOM	4653	HA	GLU	X	309	38.070	41.827	56.953	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.785	42.833	57.805	0.00	0.00
ATOM	4655	HB2	GLU	X	309	40.352	42.486	56.941	0.00	0.00
ATOM	4656	HB3	GLU	X	309	40.034	43.877	57.998	0.00	0.00
ATOM	4657	CG	GLU	X	309	40.038	41.895	58.951	0.00	0.00
ATOM	4658	HG2	GLU	X	309	39.507	42.192	59.855	0.00	0.00
ATOM	4659	HG3	GLU	X	309	39.906	40.872	58.597	0.00	0.00
ATOM	4660	CD	GLU	X	309	41.530	42.073	59.364	0.00	0.00
ATOM	4661	OE1	GLU	X	309	42.406	41.468	58.682	0.00	0.00
ATOM	4662	OE2	GLU	X	309	41.781	42.993	60.172	0.00	0.00
ATOM	4663	C	GLU	X	309	37.398	43.004	58.454	0.00	0.00
ATOM	4664	O	GLU	X	309	37.010	42.007	59.067	0.00	0.00
ATOM	4665	N	ALA	X	310	37.055	44.228	58.768	0.00	0.00
ATOM	4666	H	ALA	X	310	37.134	44.913	58.031	0.00	0.00
ATOM	4667	CA	ALA	X	310	36.070	44.627	59.791	0.00	0.00
ATOM	4668	HA	ALA	X	310	36.059	43.905	60.607	0.00	0.00
ATOM	4669	CB	ALA	X	310	36.544	45.956	60.424	0.00	0.00
ATOM	4670	HB1	ALA	X	310	36.489	46.741	59.669	0.00	0.00
ATOM	4671	HB2	ALA	X	310	37.535	45.996	60.874	0.00	0.00
ATOM	4672	HB3	ALA	X	310	35.826	46.264	61.184	0.00	0.00
ATOM	4673	C	ALA	X	310	34.656	44.835	59.326	0.00	0.00
ATOM	4674	O	ALA	X	310	33.650	44.588	60.028	0.00	0.00
ATOM	4675	N	LEU	X	311	34.521	45.190	58.002	0.00	0.00
ATOM	4676	H	LEU	X	311	35.348	45.332	57.441	0.00	0.00
ATOM	4677	CA	LEU	X	311	33.282	45.254	57.204	0.00	0.00
ATOM	4678	HA	LEU	X	311	32.575	45.860	57.771	0.00	0.00
ATOM	4679	CB	LEU	X	311	33.571	46.069	55.880	0.00	0.00
ATOM	4680	HB2	LEU	X	311	34.379	45.487	55.438	0.00	0.00
ATOM	4681	HB3	LEU	X	311	32.649	45.980	55.305	0.00	0.00

ATOM	4682	CG	LEU	X	311	33.831	47.561	55.859	0.00	0.00
ATOM	4683	HG	LEU	X	311	34.742	47.837	56.389	0.00	0.00
ATOM	4684	CD1	LEU	X	311	34.079	48.051	54.462	0.00	0.00
ATOM	4685	HD11	LEU	X	311	33.202	47.974	53.819	0.00	0.00
ATOM	4686	HD12	LEU	X	311	34.894	47.537	53.953	0.00	0.00
ATOM	4687	HD13	LEU	X	311	34.229	49.127	54.556	0.00	0.00
ATOM	4688	CD2	LEU	X	311	32.739	48.383	56.546	0.00	0.00
ATOM	4689	HD21	LEU	X	311	31.721	48.029	56.385	0.00	0.00
ATOM	4690	HD22	LEU	X	311	33.002	48.439	57.602	0.00	0.00
ATOM	4691	HD23	LEU	X	311	32.812	49.431	56.256	0.00	0.00
ATOM	4692	C	LEU	X	311	32.679	43.857	56.904	0.00	0.00
ATOM	4693	O	LEU	X	311	31.465	43.627	57.054	0.00	0.00
ATOM	4694	N	ILE	X	312	33.470	42.892	56.473	0.00	0.00
ATOM	4695	H	ILE	X	312	34.438	43.148	56.337	0.00	0.00
ATOM	4696	CA	ILE	X	312	33.012	41.517	56.404	0.00	0.00
ATOM	4697	HA	ILE	X	312	32.062	41.598	55.874	0.00	0.00
ATOM	4698	CB	ILE	X	312	34.093	40.624	55.687	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.582	41.305	54.991	0.00	0.00
ATOM	4700	CG2	ILE	X	312	35.294	40.034	56.505	0.00	0.00
ATOM	4701	HG21	ILE	X	312	35.797	40.828	57.056	0.00	0.00
ATOM	4702	HG22	ILE	X	312	36.005	39.497	55.877	0.00	0.00
ATOM	4703	HG23	ILE	X	312	34.879	39.315	57.212	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.348	39.491	54.926	0.00	0.00
ATOM	4705	HG12	ILE	X	312	34.084	38.776	54.560	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.597	39.037	55.572	0.00	0.00
ATOM	4707	CD1	ILE	X	312	32.724	40.098	53.634	0.00	0.00
ATOM	4708	HD11	ILE	X	312	32.080	40.965	53.778	0.00	0.00
ATOM	4709	HD12	ILE	X	312	32.112	39.335	53.153	0.00	0.00
ATOM	4710	HD13	ILE	X	312	33.522	40.382	52.948	0.00	0.00
ATOM	4711	C	ILE	X	312	32.633	40.813	57.742	0.00	0.00
ATOM	4712	O	ILE	X	312	31.543	40.310	57.862	0.00	0.00
ATOM	4713	N	ASN	X	313	33.469	41.038	58.770	0.00	0.00
ATOM	4714	H	ASN	X	313	34.391	41.420	58.618	0.00	0.00
ATOM	4715	CA	ASN	X	313	33.200	40.527	60.150	0.00	0.00
ATOM	4716	HA	ASN	X	313	33.142	39.439	60.141	0.00	0.00
ATOM	4717	CB	ASN	X	313	34.461	40.766	61.002	0.00	0.00
ATOM	4718	HB2	ASN	X	313	35.210	40.079	60.608	0.00	0.00
ATOM	4719	HB3	ASN	X	313	34.869	41.761	60.828	0.00	0.00
ATOM	4720	CG	ASN	X	313	34.225	40.435	62.537	0.00	0.00
ATOM	4721	OD1	ASN	X	313	33.805	41.251	63.342	0.00	0.00
ATOM	4722	ND2	ASN	X	313	34.569	39.224	62.962	0.00	0.00
ATOM	4723	HD21	ASN	X	313	34.562	39.137	63.968	0.00	0.00
ATOM	4724	HD22	ASN	X	313	34.709	38.437	62.344	0.00	0.00
ATOM	4725	C	ASN	X	313	31.934	41.102	60.771	0.00	0.00
ATOM	4726	O	ASN	X	313	31.384	40.379	61.615	0.00	0.00
ATOM	4727	N	ALA	X	314	31.534	42.296	60.478	0.00	0.00
ATOM	4728	H	ALA	X	314	32.069	42.958	59.934	0.00	0.00
ATOM	4729	CA	ALA	X	314	30.249	42.793	60.949	0.00	0.00
ATOM	4730	HA	ALA	X	314	29.970	42.134	61.771	0.00	0.00
ATOM	4731	CB	ALA	X	314	30.558	44.222	61.425	0.00	0.00
ATOM	4732	HB1	ALA	X	314	29.686	44.683	61.889	0.00	0.00
ATOM	4733	HB2	ALA	X	314	30.820	44.883	60.599	0.00	0.00
ATOM	4734	HB3	ALA	X	314	31.357	44.178	62.166	0.00	0.00
ATOM	4735	C	ALA	X	314	29.049	42.682	59.968	0.00	0.00
ATOM	4736	O	ALA	X	314	27.895	42.740	60.382	0.00	0.00
ATOM	4737	N	GLY	X	315	29.323	42.392	58.672	0.00	0.00
ATOM	4738	H	GLY	X	315	30.314	42.386	58.476	0.00	0.00
ATOM	4739	CA	GLY	X	315	28.378	42.506	57.571	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.822	43.443	57.583	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.872	42.516	56.599	0.00	0.00
ATOM	4742	C	GLY	X	315	27.412	41.328	57.388	0.00	0.00
ATOM	4743	O	GLY	X	315	27.681	40.120	57.664	0.00	0.00
ATOM	4744	N	ASP	X	316	26.227	41.666	56.824	0.00	0.00
ATOM	4745	H	ASP	X	316	25.944	42.631	56.731	0.00	0.00
ATOM	4746	CA	ASP	X	316	25.281	40.719	56.146	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.645	39.733	56.435	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.780	40.862	56.681	0.00	0.00

ATOM	4749	HB2	ASP	X	316	23.848	40.895	57.768	0.00	0.00
ATOM	4750	HB3	ASP	X	316	23.353	41.827	56.404	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.905	39.652	56.353	0.00	0.00
ATOM	4752	OD1	ASP	X	316	22.417	39.620	55.196	0.00	0.00
ATOM	4753	OD2	ASP	X	316	22.800	38.696	57.147	0.00	0.00
ATOM	4754	C	ASP	X	316	25.342	40.823	54.636	0.00	0.00
ATOM	4755	O	ASP	X	316	25.394	41.881	54.005	0.00	0.00
ATOM	4756	N	PHE	X	317	25.295	39.660	53.961	0.00	0.00
ATOM	4757	H	PHE	X	317	25.015	38.789	54.389	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.440	39.548	52.489	0.00	0.00
ATOM	4759	HA	PHE	X	317	25.388	40.505	51.970	0.00	0.00
ATOM	4760	CB	PHE	X	317	26.892	38.906	52.213	0.00	0.00
ATOM	4761	HB2	PHE	X	317	26.919	37.919	52.675	0.00	0.00
ATOM	4762	HB3	PHE	X	317	26.988	38.734	51.141	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.013	39.777	52.718	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.345	40.998	52.027	0.00	0.00
ATOM	4765	HD1	PHE	X	317	27.856	41.307	51.116	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.113	41.947	52.751	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.276	42.924	52.322	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.512	41.710	54.069	0.00	0.00
ATOM	4769	HZ	PHE	X	317	30.124	42.442	54.575	0.00	0.00
ATOM	4770	CE2	PHE	X	317	29.381	40.427	54.641	0.00	0.00
ATOM	4771	HE2	PHE	X	317	29.742	40.234	55.640	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.638	39.492	53.987	0.00	0.00
ATOM	4773	HD2	PHE	X	317	28.365	38.565	54.470	0.00	0.00
ATOM	4774	C	PHE	X	317	24.284	38.706	51.828	0.00	0.00
ATOM	4775	O	PHE	X	317	24.584	38.051	50.816	0.00	0.00
ATOM	4776	N	HIE	X	318	23.139	38.533	52.388	0.00	0.00
ATOM	4777	H	HIE	X	318	22.938	39.093	53.204	0.00	0.00
ATOM	4778	CA	HIE	X	318	22.084	37.505	51.926	0.00	0.00
ATOM	4779	HA	HIE	X	318	22.452	36.501	52.137	0.00	0.00
ATOM	4780	CB	HIE	X	318	20.818	37.616	52.770	0.00	0.00
ATOM	4781	HB2	HIE	X	318	21.033	37.571	53.837	0.00	0.00
ATOM	4782	HB3	HIE	X	318	20.427	38.604	52.530	0.00	0.00
ATOM	4783	CG	HIE	X	318	19.858	36.507	52.420	0.00	0.00
ATOM	4784	ND1	HIE	X	318	20.126	35.139	52.532	0.00	0.00
ATOM	4785	CE1	HIE	X	318	19.090	34.492	51.994	0.00	0.00
ATOM	4786	HE1	HIE	X	318	18.944	33.423	52.044	0.00	0.00
ATOM	4787	NE2	HIE	X	318	18.279	35.370	51.420	0.00	0.00
ATOM	4788	HE2	HIE	X	318	17.477	35.249	50.819	0.00	0.00
ATOM	4789	CD2	HIE	X	318	18.693	36.620	51.729	0.00	0.00
ATOM	4790	HD2	HIE	X	318	18.214	37.513	51.356	0.00	0.00
ATOM	4791	C	HIE	X	318	21.638	37.574	50.479	0.00	0.00
ATOM	4792	O	HIE	X	318	21.210	38.683	50.042	0.00	0.00
ATOM	4793	N	GLY	X	319	21.737	36.434	49.687	0.00	0.00
ATOM	4794	H	GLY	X	319	22.110	35.656	50.212	0.00	0.00
ATOM	4795	CA	GLY	X	319	21.454	36.369	48.300	0.00	0.00
ATOM	4796	HA2	GLY	X	319	21.411	35.336	47.955	0.00	0.00
ATOM	4797	HA3	GLY	X	319	20.463	36.788	48.121	0.00	0.00
ATOM	4798	C	GLY	X	319	22.501	37.050	47.376	0.00	0.00
ATOM	4799	O	GLY	X	319	22.437	36.965	46.136	0.00	0.00
ATOM	4800	N	LEU	X	320	23.568	37.664	47.960	0.00	0.00
ATOM	4801	H	LEU	X	320	23.541	37.712	48.968	0.00	0.00
ATOM	4802	CA	LEU	X	320	24.785	37.896	47.152	0.00	0.00
ATOM	4803	HA	LEU	X	320	24.325	38.402	46.303	0.00	0.00
ATOM	4804	CB	LEU	X	320	25.814	38.836	47.788	0.00	0.00
ATOM	4805	HB2	LEU	X	320	26.362	38.364	48.604	0.00	0.00
ATOM	4806	HB3	LEU	X	320	26.523	39.069	46.994	0.00	0.00
ATOM	4807	CG	LEU	X	320	25.222	40.147	48.220	0.00	0.00
ATOM	4808	HG	LEU	X	320	24.494	39.893	48.990	0.00	0.00
ATOM	4809	CD1	LEU	X	320	26.251	41.044	48.748	0.00	0.00
ATOM	4810	HD11	LEU	X	320	25.935	41.950	49.264	0.00	0.00
ATOM	4811	HD12	LEU	X	320	27.022	41.212	47.996	0.00	0.00
ATOM	4812	HD13	LEU	X	320	26.766	40.557	49.577	0.00	0.00
ATOM	4813	CD2	LEU	X	320	24.381	40.846	47.122	0.00	0.00
ATOM	4814	HD21	LEU	X	320	24.235	41.882	47.430	0.00	0.00
ATOM	4815	HD22	LEU	X	320	24.846	40.962	46.143	0.00	0.00

ATOM	4816	HD23	LEU	X	320	23.418	40.345	47.030	0.00	0.00
ATOM	4817	C	LEU	X	320	25.572	36.593	46.610	0.00	0.00
ATOM	4818	O	LEU	X	320	25.720	35.567	47.310	0.00	0.00
ATOM	4819	N	GLN	X	321	25.913	36.698	45.313	0.00	0.00
ATOM	4820	H	GLN	X	321	25.686	37.580	44.877	0.00	0.00
ATOM	4821	CA	GLN	X	321	26.449	35.573	44.563	0.00	0.00
ATOM	4822	HA	GLN	X	321	26.393	34.659	45.154	0.00	0.00
ATOM	4823	CB	GLN	X	321	25.632	35.264	43.278	0.00	0.00
ATOM	4824	HB2	GLN	X	321	25.447	36.198	42.748	0.00	0.00
ATOM	4825	HB3	GLN	X	321	26.354	34.703	42.685	0.00	0.00
ATOM	4826	CG	GLN	X	321	24.218	34.700	43.566	0.00	0.00
ATOM	4827	HG2	GLN	X	321	24.377	33.915	44.305	0.00	0.00
ATOM	4828	HG3	GLN	X	321	23.619	35.336	44.217	0.00	0.00
ATOM	4829	CD	GLN	X	321	23.488	33.861	42.543	0.00	0.00
ATOM	4830	OE1	GLN	X	321	23.894	33.853	41.410	0.00	0.00
ATOM	4831	NE2	GLN	X	321	22.422	33.223	42.854	0.00	0.00
ATOM	4832	HE21	GLN	X	321	21.940	32.609	42.213	0.00	0.00
ATOM	4833	HE22	GLN	X	321	22.322	33.067	43.847	0.00	0.00
ATOM	4834	C	GLN	X	321	27.825	35.965	44.086	0.00	0.00
ATOM	4835	O	GLN	X	321	27.990	36.758	43.239	0.00	0.00
ATOM	4836	N	VAL	X	322	28.819	35.275	44.732	0.00	0.00
ATOM	4837	H	VAL	X	322	28.571	34.621	45.462	0.00	0.00
ATOM	4838	CA	VAL	X	322	30.252	35.614	44.574	0.00	0.00
ATOM	4839	HA	VAL	X	322	30.396	36.339	43.772	0.00	0.00
ATOM	4840	CB	VAL	X	322	30.622	36.324	45.935	0.00	0.00
ATOM	4841	HB	VAL	X	322	30.733	35.669	46.799	0.00	0.00
ATOM	4842	CG1	VAL	X	322	31.924	37.062	45.716	0.00	0.00
ATOM	4843	HG11	VAL	X	322	31.854	37.860	44.977	0.00	0.00
ATOM	4844	HG12	VAL	X	322	32.245	37.599	46.608	0.00	0.00
ATOM	4845	HG13	VAL	X	322	32.739	36.382	45.469	0.00	0.00
ATOM	4846	CG2	VAL	X	322	29.632	37.438	46.529	0.00	0.00
ATOM	4847	HG21	VAL	X	322	29.300	38.041	45.684	0.00	0.00
ATOM	4848	HG22	VAL	X	322	30.035	37.923	47.418	0.00	0.00
ATOM	4849	HG23	VAL	X	322	28.751	36.959	46.957	0.00	0.00
ATOM	4850	C	VAL	X	322	31.056	34.350	44.268	0.00	0.00
ATOM	4851	O	VAL	X	322	30.754	33.226	44.810	0.00	0.00
ATOM	4852	N	LEU	X	323	32.094	34.495	43.417	0.00	0.00
ATOM	4853	H	LEU	X	323	32.143	35.389	42.950	0.00	0.00
ATOM	4854	CA	LEU	X	323	33.210	33.501	43.144	0.00	0.00
ATOM	4855	HA	LEU	X	323	32.929	32.539	43.574	0.00	0.00
ATOM	4856	CB	LEU	X	323	33.375	33.304	41.632	0.00	0.00
ATOM	4857	HB2	LEU	X	323	32.325	33.230	41.348	0.00	0.00
ATOM	4858	HB3	LEU	X	323	33.792	34.229	41.236	0.00	0.00
ATOM	4859	CG	LEU	X	323	34.150	32.026	41.095	0.00	0.00
ATOM	4860	HG	LEU	X	323	34.103	31.212	41.820	0.00	0.00
ATOM	4861	CD1	LEU	X	323	33.406	31.505	39.832	0.00	0.00
ATOM	4862	HD11	LEU	X	323	32.473	30.984	40.046	0.00	0.00
ATOM	4863	HD12	LEU	X	323	33.942	30.724	39.293	0.00	0.00
ATOM	4864	HD13	LEU	X	323	33.168	32.250	39.073	0.00	0.00
ATOM	4865	CD2	LEU	X	323	35.631	32.235	40.795	0.00	0.00
ATOM	4866	HD21	LEU	X	323	35.684	32.594	39.767	0.00	0.00
ATOM	4867	HD22	LEU	X	323	36.135	32.986	41.403	0.00	0.00
ATOM	4868	HD23	LEU	X	323	36.153	31.278	40.830	0.00	0.00
ATOM	4869	C	LEU	X	323	34.470	34.040	43.742	0.00	0.00
ATOM	4870	O	LEU	X	323	34.652	35.288	43.552	0.00	0.00
ATOM	4871	N	VAL	X	324	35.358	33.211	44.222	0.00	0.00
ATOM	4872	H	VAL	X	324	35.158	32.227	44.112	0.00	0.00
ATOM	4873	CA	VAL	X	324	36.666	33.529	44.833	0.00	0.00
ATOM	4874	HA	VAL	X	324	37.045	34.429	44.350	0.00	0.00
ATOM	4875	CB	VAL	X	324	36.576	33.842	46.360	0.00	0.00
ATOM	4876	HB	VAL	X	324	37.598	33.897	46.736	0.00	0.00
ATOM	4877	CG1	VAL	X	324	36.002	35.136	46.763	0.00	0.00
ATOM	4878	HG11	VAL	X	324	34.976	35.091	46.399	0.00	0.00
ATOM	4879	HG12	VAL	X	324	35.699	35.185	47.809	0.00	0.00
ATOM	4880	HG13	VAL	X	324	36.396	36.041	46.302	0.00	0.00
ATOM	4881	CG2	VAL	X	324	35.955	32.749	47.171	0.00	0.00
ATOM	4882	HG21	VAL	X	324	36.170	31.811	46.660	0.00	0.00

ATOM	4883	HG22	VAL	X	324	34.872	32.840	47.091	0.00	0.00
ATOM	4884	HG23	VAL	X	324	36.257	32.713	48.217	0.00	0.00
ATOM	4885	C	VAL	X	324	37.556	32.359	44.588	0.00	0.00
ATOM	4886	O	VAL	X	324	37.095	31.281	44.228	0.00	0.00
ATOM	4887	N	GLY	X	325	38.873	32.558	44.841	0.00	0.00
ATOM	4888	H	GLY	X	325	39.109	33.472	45.200	0.00	0.00
ATOM	4889	CA	GLY	X	325	39.919	31.489	44.712	0.00	0.00
ATOM	4890	HA2	GLY	X	325	39.986	30.845	45.590	0.00	0.00
ATOM	4891	HA3	GLY	X	325	39.621	30.832	43.895	0.00	0.00
ATOM	4892	C	GLY	X	325	41.245	32.034	44.401	0.00	0.00
ATOM	4893	O	GLY	X	325	41.410	33.234	44.254	0.00	0.00
ATOM	4894	N	VAL	X	326	42.270	31.198	44.439	0.00	0.00
ATOM	4895	H	VAL	X	326	42.089	30.205	44.405	0.00	0.00
ATOM	4896	CA	VAL	X	326	43.719	31.550	44.337	0.00	0.00
ATOM	4897	HA	VAL	X	326	43.853	32.542	43.905	0.00	0.00
ATOM	4898	CB	VAL	X	326	44.345	31.423	45.764	0.00	0.00
ATOM	4899	HB	VAL	X	326	45.412	31.609	45.641	0.00	0.00
ATOM	4900	CG1	VAL	X	326	43.811	32.563	46.647	0.00	0.00
ATOM	4901	HG11	VAL	X	326	44.038	33.482	46.106	0.00	0.00
ATOM	4902	HG12	VAL	X	326	42.752	32.380	46.829	0.00	0.00
ATOM	4903	HG13	VAL	X	326	44.291	32.699	47.616	0.00	0.00
ATOM	4904	CG2	VAL	X	326	44.051	30.045	46.363	0.00	0.00
ATOM	4905	HG21	VAL	X	326	44.471	29.840	47.348	0.00	0.00
ATOM	4906	HG22	VAL	X	326	44.565	29.285	45.775	0.00	0.00
ATOM	4907	HG23	VAL	X	326	42.977	29.859	46.368	0.00	0.00
ATOM	4908	C	VAL	X	326	44.467	30.596	43.343	0.00	0.00
ATOM	4909	O	VAL	X	326	43.884	29.634	42.891	0.00	0.00
ATOM	4910	N	VAL	X	327	45.799	30.788	43.119	0.00	0.00
ATOM	4911	H	VAL	X	327	46.296	31.644	43.318	0.00	0.00
ATOM	4912	CA	VAL	X	327	46.681	29.735	42.529	0.00	0.00
ATOM	4913	HA	VAL	X	327	46.092	28.970	42.022	0.00	0.00
ATOM	4914	CB	VAL	X	327	47.562	30.261	41.361	0.00	0.00
ATOM	4915	HB	VAL	X	327	48.110	29.415	40.946	0.00	0.00
ATOM	4916	CG1	VAL	X	327	46.957	30.931	40.134	0.00	0.00
ATOM	4917	HG11	VAL	X	327	46.335	31.769	40.449	0.00	0.00
ATOM	4918	HG12	VAL	X	327	47.685	31.272	39.398	0.00	0.00
ATOM	4919	HG13	VAL	X	327	46.316	30.213	39.622	0.00	0.00
ATOM	4920	CG2	VAL	X	327	48.616	31.272	41.966	0.00	0.00
ATOM	4921	HG21	VAL	X	327	49.352	31.560	41.215	0.00	0.00
ATOM	4922	HG22	VAL	X	327	49.104	30.907	42.869	0.00	0.00
ATOM	4923	HG23	VAL	X	327	48.057	32.137	42.326	0.00	0.00
ATOM	4924	C	VAL	X	327	47.558	28.976	43.543	0.00	0.00
ATOM	4925	O	VAL	X	327	47.737	29.325	44.699	0.00	0.00
ATOM	4926	N	LYS	X	328	48.054	27.800	43.153	0.00	0.00
ATOM	4927	H	LYS	X	328	47.882	27.480	42.211	0.00	0.00
ATOM	4928	CA	LYS	X	328	48.726	26.827	43.934	0.00	0.00
ATOM	4929	HA	LYS	X	328	48.054	26.458	44.708	0.00	0.00
ATOM	4930	CB	LYS	X	328	49.222	25.718	43.055	0.00	0.00
ATOM	4931	HB2	LYS	X	328	48.314	25.278	42.644	0.00	0.00
ATOM	4932	HB3	LYS	X	328	49.866	26.089	42.258	0.00	0.00
ATOM	4933	CG	LYS	X	328	49.926	24.642	43.783	0.00	0.00
ATOM	4934	HG2	LYS	X	328	50.874	24.960	44.217	0.00	0.00
ATOM	4935	HG3	LYS	X	328	49.305	24.301	44.612	0.00	0.00
ATOM	4936	CD	LYS	X	328	50.159	23.454	42.915	0.00	0.00
ATOM	4937	HD2	LYS	X	328	50.523	22.626	43.523	0.00	0.00
ATOM	4938	HD3	LYS	X	328	49.207	23.181	42.460	0.00	0.00
ATOM	4939	CE	LYS	X	328	51.176	23.685	41.764	0.00	0.00
ATOM	4940	HE2	LYS	X	328	51.106	22.754	41.202	0.00	0.00
ATOM	4941	HE3	LYS	X	328	50.856	24.472	41.082	0.00	0.00
ATOM	4942	NZ	LYS	X	328	52.573	23.960	42.234	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	52.615	24.926	42.525	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	52.907	23.414	43.015	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	53.286	24.020	41.522	0.00	0.00
ATOM	4946	C	LYS	X	328	49.794	27.424	44.820	0.00	0.00
ATOM	4947	O	LYS	X	328	49.768	27.061	46.013	0.00	0.00
ATOM	4948	N	ASP	X	329	50.622	28.387	44.361	0.00	0.00
ATOM	4949	H	ASP	X	329	50.451	28.559	43.380	0.00	0.00

ATOM	4950	CA	ASP	X	329	51.774	28.876	45.044	0.00	0.00
ATOM	4951	HA	ASP	X	329	51.898	28.304	45.963	0.00	0.00
ATOM	4952	CB	ASP	X	329	53.036	28.557	44.167	0.00	0.00
ATOM	4953	HB2	ASP	X	329	53.068	29.126	43.238	0.00	0.00
ATOM	4954	HB3	ASP	X	329	53.966	28.820	44.671	0.00	0.00
ATOM	4955	CG	ASP	X	329	53.113	27.082	43.705	0.00	0.00
ATOM	4956	OD1	ASP	X	329	53.760	26.182	44.376	0.00	0.00
ATOM	4957	OD2	ASP	X	329	52.553	26.774	42.652	0.00	0.00
ATOM	4958	C	ASP	X	329	51.716	30.364	45.350	0.00	0.00
ATOM	4959	O	ASP	X	329	52.329	30.797	46.332	0.00	0.00
ATOM	4960	N	GLU	X	330	51.108	31.264	44.531	0.00	0.00
ATOM	4961	H	GLU	X	330	50.880	30.939	43.603	0.00	0.00
ATOM	4962	CA	GLU	X	330	50.739	32.654	44.888	0.00	0.00
ATOM	4963	HA	GLU	X	330	50.253	33.053	43.997	0.00	0.00
ATOM	4964	CB	GLU	X	330	49.739	32.655	46.102	0.00	0.00
ATOM	4965	HB2	GLU	X	330	49.992	31.829	46.766	0.00	0.00
ATOM	4966	HB3	GLU	X	330	49.811	33.622	46.600	0.00	0.00
ATOM	4967	CG	GLU	X	330	48.282	32.478	45.775	0.00	0.00
ATOM	4968	HG2	GLU	X	330	48.134	31.561	45.206	0.00	0.00
ATOM	4969	HG3	GLU	X	330	47.869	32.324	46.772	0.00	0.00
ATOM	4970	CD	GLU	X	330	47.605	33.567	45.076	0.00	0.00
ATOM	4971	OE1	GLU	X	330	47.903	34.780	45.256	0.00	0.00
ATOM	4972	OE2	GLU	X	330	46.815	33.186	44.201	0.00	0.00
ATOM	4973	C	GLU	X	330	52.026	33.481	45.210	0.00	0.00
ATOM	4974	O	GLU	X	330	52.606	34.054	44.247	0.00	0.00
ATOM	4975	N	GLY	X	331	52.439	33.621	46.501	0.00	0.00
ATOM	4976	H	GLY	X	331	52.087	32.920	47.137	0.00	0.00
ATOM	4977	CA	GLY	X	331	53.506	34.480	47.000	0.00	0.00
ATOM	4978	HA2	GLY	X	331	53.311	35.509	46.700	0.00	0.00
ATOM	4979	HA3	GLY	X	331	53.417	34.407	48.084	0.00	0.00
ATOM	4980	C	GLY	X	331	54.942	34.098	46.566	0.00	0.00
ATOM	4981	O	GLY	X	331	55.921	34.744	46.959	0.00	0.00
ATOM	4982	N	SER	X	332	55.114	33.110	45.752	0.00	0.00
ATOM	4983	H	SER	X	332	54.292	32.630	45.416	0.00	0.00
ATOM	4984	CA	SER	X	332	56.321	32.844	44.972	0.00	0.00
ATOM	4985	HA	SER	X	332	57.185	32.912	45.633	0.00	0.00
ATOM	4986	CB	SER	X	332	56.129	31.413	44.345	0.00	0.00
ATOM	4987	HB2	SER	X	332	57.033	30.978	43.918	0.00	0.00
ATOM	4988	HB3	SER	X	332	55.910	30.677	45.118	0.00	0.00
ATOM	4989	OG	SER	X	332	55.024	31.343	43.501	0.00	0.00
ATOM	4990	HG	SER	X	332	55.119	30.575	42.933	0.00	0.00
ATOM	4991	C	SER	X	332	56.520	33.865	43.761	0.00	0.00
ATOM	4992	O	SER	X	332	57.621	34.158	43.445	0.00	0.00
ATOM	4993	N	TYR	X	333	55.415	34.491	43.318	0.00	0.00
ATOM	4994	H	TYR	X	333	54.494	34.273	43.669	0.00	0.00
ATOM	4995	CA	TYR	X	333	55.524	35.649	42.422	0.00	0.00
ATOM	4996	HA	TYR	X	333	56.079	35.383	41.522	0.00	0.00
ATOM	4997	CB	TYR	X	333	54.066	36.069	42.073	0.00	0.00
ATOM	4998	HB2	TYR	X	333	53.644	35.322	41.400	0.00	0.00
ATOM	4999	HB3	TYR	X	333	53.443	36.071	42.967	0.00	0.00
ATOM	5000	CG	TYR	X	333	54.059	37.378	41.311	0.00	0.00
ATOM	5001	CD1	TYR	X	333	54.739	37.445	40.145	0.00	0.00
ATOM	5002	HD1	TYR	X	333	55.272	36.603	39.729	0.00	0.00
ATOM	5003	CE1	TYR	X	333	54.629	38.597	39.323	0.00	0.00
ATOM	5004	HE1	TYR	X	333	55.208	38.606	38.412	0.00	0.00
ATOM	5005	CZ	TYR	X	333	53.774	39.718	39.601	0.00	0.00
ATOM	5006	OH	TYR	X	333	53.483	40.735	38.761	0.00	0.00
ATOM	5007	HH	TYR	X	333	53.997	40.789	37.952	0.00	0.00
ATOM	5008	CE2	TYR	X	333	53.148	39.663	40.833	0.00	0.00
ATOM	5009	HE2	TYR	X	333	52.549	40.470	41.229	0.00	0.00
ATOM	5010	CD2	TYR	X	333	53.294	38.498	41.668	0.00	0.00
ATOM	5011	HD2	TYR	X	333	52.923	38.432	42.680	0.00	0.00
ATOM	5012	C	TYR	X	333	56.264	36.821	43.149	0.00	0.00
ATOM	5013	O	TYR	X	333	56.994	37.545	42.455	0.00	0.00
ATOM	5014	N	PHE	X	334	56.133	37.058	44.437	0.00	0.00
ATOM	5015	H	PHE	X	334	55.730	36.321	44.996	0.00	0.00
ATOM	5016	CA	PHE	X	334	56.687	38.232	45.086	0.00	0.00

ATOM	5017	HA	PHE	X	334	56.697	39.040	44.355	0.00	0.00
ATOM	5018	CB	PHE	X	334	55.582	38.720	46.035	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.127	37.857	46.522	0.00	0.00
ATOM	5020	HB3	PHE	X	334	56.014	39.391	46.777	0.00	0.00
ATOM	5021	CG	PHE	X	334	54.412	39.418	45.383	0.00	0.00
ATOM	5022	CD1	PHE	X	334	53.090	38.807	45.334	0.00	0.00
ATOM	5023	HD1	PHE	X	334	52.885	37.796	45.654	0.00	0.00
ATOM	5024	CE1	PHE	X	334	52.033	39.506	44.710	0.00	0.00
ATOM	5025	HE1	PHE	X	334	51.073	39.017	44.636	0.00	0.00
ATOM	5026	CZ	PHE	X	334	52.179	40.799	44.272	0.00	0.00
ATOM	5027	HZ	PHE	X	334	51.333	41.341	43.877	0.00	0.00
ATOM	5028	CE2	PHE	X	334	53.448	41.398	44.343	0.00	0.00
ATOM	5029	HE2	PHE	X	334	53.621	42.433	44.088	0.00	0.00
ATOM	5030	CD2	PHE	X	334	54.549	40.695	44.879	0.00	0.00
ATOM	5031	HD2	PHE	X	334	55.548	41.102	44.929	0.00	0.00
ATOM	5032	C	PHE	X	334	58.017	38.155	45.701	0.00	0.00
ATOM	5033	O	PHE	X	334	58.643	39.218	46.012	0.00	0.00
ATOM	5034	N	LEU	X	335	58.687	36.998	45.788	0.00	0.00
ATOM	5035	H	LEU	X	335	58.262	36.130	45.496	0.00	0.00
ATOM	5036	CA	LEU	X	335	60.033	36.926	46.353	0.00	0.00
ATOM	5037	HA	LEU	X	335	60.075	37.345	47.359	0.00	0.00
ATOM	5038	CB	LEU	X	335	60.631	35.514	46.433	0.00	0.00
ATOM	5039	HB2	LEU	X	335	60.891	34.978	45.520	0.00	0.00
ATOM	5040	HB3	LEU	X	335	61.504	35.590	47.081	0.00	0.00
ATOM	5041	CG	LEU	X	335	59.545	34.581	47.122	0.00	0.00
ATOM	5042	HG	LEU	X	335	58.793	34.210	46.426	0.00	0.00
ATOM	5043	CD1	LEU	X	335	60.309	33.404	47.720	0.00	0.00
ATOM	5044	HD11	LEU	X	335	59.517	32.781	48.135	0.00	0.00
ATOM	5045	HD12	LEU	X	335	60.939	33.611	48.584	0.00	0.00
ATOM	5046	HD13	LEU	X	335	60.804	32.894	46.893	0.00	0.00
ATOM	5047	CD2	LEU	X	335	58.916	35.131	48.367	0.00	0.00
ATOM	5048	HD21	LEU	X	335	58.381	34.342	48.896	0.00	0.00
ATOM	5049	HD22	LEU	X	335	59.674	35.439	49.088	0.00	0.00
ATOM	5050	HD23	LEU	X	335	58.153	35.862	48.100	0.00	0.00
ATOM	5051	C	LEU	X	335	61.126	37.704	45.606	0.00	0.00
ATOM	5052	O	LEU	X	335	61.889	38.395	46.326	0.00	0.00
ATOM	5053	N	VAL	X	336	61.267	37.608	44.284	0.00	0.00
ATOM	5054	H	VAL	X	336	60.691	36.949	43.779	0.00	0.00
ATOM	5055	CA	VAL	X	336	62.230	38.385	43.558	0.00	0.00
ATOM	5056	HA	VAL	X	336	63.226	38.192	43.957	0.00	0.00
ATOM	5057	CB	VAL	X	336	62.387	37.851	42.104	0.00	0.00
ATOM	5058	HB	VAL	X	336	63.223	38.366	41.631	0.00	0.00
ATOM	5059	CG1	VAL	X	336	62.827	36.318	42.026	0.00	0.00
ATOM	5060	HG11	VAL	X	336	62.044	35.654	42.391	0.00	0.00
ATOM	5061	HG12	VAL	X	336	63.021	35.979	41.008	0.00	0.00
ATOM	5062	HG13	VAL	X	336	63.726	36.138	42.616	0.00	0.00
ATOM	5063	CG2	VAL	X	336	61.137	38.059	41.188	0.00	0.00
ATOM	5064	HG21	VAL	X	336	60.868	39.103	41.027	0.00	0.00
ATOM	5065	HG22	VAL	X	336	60.239	37.517	41.484	0.00	0.00
ATOM	5066	HG23	VAL	X	336	61.447	37.789	40.178	0.00	0.00
ATOM	5067	C	VAL	X	336	62.005	39.911	43.576	0.00	0.00
ATOM	5068	O	VAL	X	336	62.744	40.685	42.929	0.00	0.00
ATOM	5069	N	TYR	X	337	60.980	40.369	44.357	0.00	0.00
ATOM	5070	H	TYR	X	337	60.478	39.757	44.985	0.00	0.00
ATOM	5071	CA	TYR	X	337	60.681	41.821	44.451	0.00	0.00
ATOM	5072	HA	TYR	X	337	61.504	42.437	44.090	0.00	0.00
ATOM	5073	CB	TYR	X	337	59.425	42.172	43.663	0.00	0.00
ATOM	5074	HB2	TYR	X	337	58.563	41.558	43.923	0.00	0.00
ATOM	5075	HB3	TYR	X	337	59.216	43.200	43.957	0.00	0.00
ATOM	5076	CG	TYR	X	337	59.593	42.200	42.144	0.00	0.00
ATOM	5077	CD1	TYR	X	337	60.253	43.261	41.519	0.00	0.00
ATOM	5078	HD1	TYR	X	337	60.641	44.082	42.103	0.00	0.00
ATOM	5079	CE1	TYR	X	337	60.242	43.361	40.133	0.00	0.00
ATOM	5080	HE1	TYR	X	337	60.806	44.185	39.721	0.00	0.00
ATOM	5081	CZ	TYR	X	337	59.505	42.439	39.312	0.00	0.00
ATOM	5082	OH	TYR	X	337	59.489	42.672	37.948	0.00	0.00
ATOM	5083	HH	TYR	X	337	59.511	43.618	37.782	0.00	0.00

ATOM	5084	CE2	TYR	X	337	59.059	41.252	39.979	0.00	0.00
ATOM	5085	HE2	TYR	X	337	58.561	40.506	39.376	0.00	0.00
ATOM	5086	CD2	TYR	X	337	59.010	41.177	41.349	0.00	0.00
ATOM	5087	HD2	TYR	X	337	58.478	40.391	41.863	0.00	0.00
ATOM	5088	C	TYR	X	337	60.627	42.240	45.964	0.00	0.00
ATOM	5089	O	TYR	X	337	60.378	43.463	46.150	0.00	0.00
ATOM	5090	N	GLY	X	338	60.956	41.347	46.954	0.00	0.00
ATOM	5091	H	GLY	X	338	61.159	40.370	46.803	0.00	0.00
ATOM	5092	CA	GLY	X	338	61.395	41.955	48.214	0.00	0.00
ATOM	5093	HA2	GLY	X	338	62.029	42.814	47.999	0.00	0.00
ATOM	5094	HA3	GLY	X	338	60.561	42.456	48.706	0.00	0.00
ATOM	5095	C	GLY	X	338	62.251	41.068	49.146	0.00	0.00
ATOM	5096	O	GLY	X	338	62.659	41.624	50.146	0.00	0.00
ATOM	5097	N	ALA	X	339	62.355	39.736	48.898	0.00	0.00
ATOM	5098	H	ALA	X	339	61.927	39.338	48.074	0.00	0.00
ATOM	5099	CA	ALA	X	339	63.174	38.872	49.784	0.00	0.00
ATOM	5100	HA	ALA	X	339	63.002	39.171	50.818	0.00	0.00
ATOM	5101	CB	ALA	X	339	62.628	37.441	49.660	0.00	0.00
ATOM	5102	HB1	ALA	X	339	61.579	37.424	49.366	0.00	0.00
ATOM	5103	HB2	ALA	X	339	62.781	36.938	50.615	0.00	0.00
ATOM	5104	HB3	ALA	X	339	63.186	36.970	48.851	0.00	0.00
ATOM	5105	C	ALA	X	339	64.637	39.120	49.584	0.00	0.00
ATOM	5106	O	ALA	X	339	65.143	39.521	48.535	0.00	0.00
ATOM	5107	N	PRO	X	340	65.416	38.949	50.678	0.00	0.00
ATOM	5108	CD	PRO	X	340	65.025	38.284	51.949	0.00	0.00
ATOM	5109	HD2	PRO	X	340	64.811	37.266	51.622	0.00	0.00
ATOM	5110	HD3	PRO	X	340	64.175	38.763	52.435	0.00	0.00
ATOM	5111	CG	PRO	X	340	66.250	38.316	52.921	0.00	0.00
ATOM	5112	HG2	PRO	X	340	66.835	37.401	52.826	0.00	0.00
ATOM	5113	HG3	PRO	X	340	66.054	38.710	53.918	0.00	0.00
ATOM	5114	CB	PRO	X	340	67.167	39.345	52.202	0.00	0.00
ATOM	5115	HB2	PRO	X	340	68.216	39.055	52.270	0.00	0.00
ATOM	5116	HB3	PRO	X	340	67.082	40.337	52.646	0.00	0.00
ATOM	5117	CA	PRO	X	340	66.828	39.352	50.740	0.00	0.00
ATOM	5118	HA	PRO	X	340	66.970	40.342	50.306	0.00	0.00
ATOM	5119	C	PRO	X	340	67.676	38.478	49.797	0.00	0.00
ATOM	5120	O	PRO	X	340	67.717	37.249	49.983	0.00	0.00
ATOM	5121	N	GLY	X	341	68.310	39.112	48.764	0.00	0.00
ATOM	5122	H	GLY	X	341	68.113	40.086	48.586	0.00	0.00
ATOM	5123	CA	GLY	X	341	69.220	38.349	47.844	0.00	0.00
ATOM	5124	HA2	GLY	X	341	69.943	39.027	47.389	0.00	0.00
ATOM	5125	HA3	GLY	X	341	69.694	37.532	48.387	0.00	0.00
ATOM	5126	C	GLY	X	341	68.514	37.638	46.706	0.00	0.00
ATOM	5127	O	GLY	X	341	69.157	37.012	45.853	0.00	0.00
ATOM	5128	N	PHE	X	342	67.152	37.724	46.612	0.00	0.00
ATOM	5129	H	PHE	X	342	66.525	38.163	47.271	0.00	0.00
ATOM	5130	CA	PHE	X	342	66.433	37.186	45.469	0.00	0.00
ATOM	5131	HA	PHE	X	342	66.924	36.251	45.198	0.00	0.00
ATOM	5132	CB	PHE	X	342	64.952	36.856	45.864	0.00	0.00
ATOM	5133	HB2	PHE	X	342	64.452	37.598	46.486	0.00	0.00
ATOM	5134	HB3	PHE	X	342	64.362	36.778	44.951	0.00	0.00
ATOM	5135	CG	PHE	X	342	64.866	35.497	46.625	0.00	0.00
ATOM	5136	CD1	PHE	X	342	64.411	34.335	45.998	0.00	0.00
ATOM	5137	HD1	PHE	X	342	64.144	34.381	44.952	0.00	0.00
ATOM	5138	CE1	PHE	X	342	64.193	33.194	46.829	0.00	0.00
ATOM	5139	HE1	PHE	X	342	63.697	32.299	46.486	0.00	0.00
ATOM	5140	CZ	PHE	X	342	64.689	33.170	48.157	0.00	0.00
ATOM	5141	HZ	PHE	X	342	64.472	32.329	48.799	0.00	0.00
ATOM	5142	CE2	PHE	X	342	65.373	34.283	48.675	0.00	0.00
ATOM	5143	HE2	PHE	X	342	65.628	34.222	49.722	0.00	0.00
ATOM	5144	CD2	PHE	X	342	65.319	35.442	47.923	0.00	0.00
ATOM	5145	HD2	PHE	X	342	65.695	36.347	48.377	0.00	0.00
ATOM	5146	C	PHE	X	342	66.454	38.029	44.197	0.00	0.00
ATOM	5147	O	PHE	X	342	66.213	39.199	44.189	0.00	0.00
ATOM	5148	N	SER	X	343	66.331	37.377	43.055	0.00	0.00
ATOM	5149	H	SER	X	343	66.415	36.371	43.030	0.00	0.00
ATOM	5150	CA	SER	X	343	66.174	37.910	41.690	0.00	0.00

ATOM	5151	HA	SER	X	343	65.395	38.669	41.752	0.00	0.00
ATOM	5152	CB	SER	X	343	67.468	38.616	41.219	0.00	0.00
ATOM	5153	HB2	SER	X	343	67.192	39.263	40.387	0.00	0.00
ATOM	5154	HB3	SER	X	343	67.930	39.254	41.973	0.00	0.00
ATOM	5155	OG	SER	X	343	68.499	37.819	40.817	0.00	0.00
ATOM	5156	HG	SER	X	343	68.914	38.207	40.042	0.00	0.00
ATOM	5157	C	SER	X	343	65.764	36.830	40.684	0.00	0.00
ATOM	5158	O	SER	X	343	65.905	35.628	41.022	0.00	0.00
ATOM	5159	N	LYS	X	344	65.259	37.231	39.516	0.00	0.00
ATOM	5160	H	LYS	X	344	65.113	38.220	39.369	0.00	0.00
ATOM	5161	CA	LYS	X	344	64.566	36.313	38.598	0.00	0.00
ATOM	5162	HA	LYS	X	344	63.654	35.961	39.080	0.00	0.00
ATOM	5163	CB	LYS	X	344	63.979	37.029	37.400	0.00	0.00
ATOM	5164	HB2	LYS	X	344	63.544	36.310	36.706	0.00	0.00
ATOM	5165	HB3	LYS	X	344	63.279	37.807	37.704	0.00	0.00
ATOM	5166	CG	LYS	X	344	64.974	37.744	36.452	0.00	0.00
ATOM	5167	HG2	LYS	X	344	65.346	38.621	36.981	0.00	0.00
ATOM	5168	HG3	LYS	X	344	65.830	37.099	36.254	0.00	0.00
ATOM	5169	CD	LYS	X	344	64.310	38.121	35.123	0.00	0.00
ATOM	5170	HD2	LYS	X	344	64.080	37.266	34.487	0.00	0.00
ATOM	5171	HD3	LYS	X	344	63.376	38.651	35.307	0.00	0.00
ATOM	5172	CE	LYS	X	344	65.319	39.000	34.279	0.00	0.00
ATOM	5173	HE2	LYS	X	344	64.962	39.123	33.256	0.00	0.00
ATOM	5174	HE3	LYS	X	344	65.403	39.998	34.708	0.00	0.00
ATOM	5175	NZ	LYS	X	344	66.696	38.425	34.271	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	67.233	38.952	33.598	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	67.085	38.336	35.199	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	66.666	37.477	33.922	0.00	0.00
ATOM	5179	C	LYS	X	344	65.328	35.099	38.109	0.00	0.00
ATOM	5180	O	LYS	X	344	64.709	33.995	37.917	0.00	0.00
ATOM	5181	N	ASP	X	345	66.658	35.263	37.947	0.00	0.00
ATOM	5182	H	ASP	X	345	66.992	36.189	38.172	0.00	0.00
ATOM	5183	CA	ASP	X	345	67.589	34.341	37.450	0.00	0.00
ATOM	5184	HA	ASP	X	345	66.958	33.705	36.829	0.00	0.00
ATOM	5185	CB	ASP	X	345	68.481	34.992	36.402	0.00	0.00
ATOM	5186	HB2	ASP	X	345	68.680	34.241	35.637	0.00	0.00
ATOM	5187	HB3	ASP	X	345	68.007	35.833	35.895	0.00	0.00
ATOM	5188	CG	ASP	X	345	69.812	35.606	36.933	0.00	0.00
ATOM	5189	OD1	ASP	X	345	69.790	36.512	37.719	0.00	0.00
ATOM	5190	OD2	ASP	X	345	70.876	35.078	36.561	0.00	0.00
ATOM	5191	C	ASP	X	345	68.399	33.655	38.554	0.00	0.00
ATOM	5192	O	ASP	X	345	68.997	32.607	38.253	0.00	0.00
ATOM	5193	N	ASN	X	346	68.478	34.176	39.786	0.00	0.00
ATOM	5194	H	ASN	X	346	67.880	34.944	40.053	0.00	0.00
ATOM	5195	CA	ASN	X	346	69.309	33.526	40.837	0.00	0.00
ATOM	5196	HA	ASN	X	346	70.289	33.183	40.505	0.00	0.00
ATOM	5197	CB	ASN	X	346	69.437	34.611	41.872	0.00	0.00
ATOM	5198	HB2	ASN	X	346	69.914	35.514	41.490	0.00	0.00
ATOM	5199	HB3	ASN	X	346	68.416	34.764	42.222	0.00	0.00
ATOM	5200	CG	ASN	X	346	70.318	34.101	43.050	0.00	0.00
ATOM	5201	OD1	ASN	X	346	70.822	32.986	43.027	0.00	0.00
ATOM	5202	ND2	ASN	X	346	70.504	34.929	44.092	0.00	0.00
ATOM	5203	HD21	ASN	X	346	70.580	34.468	44.987	0.00	0.00
ATOM	5204	HD22	ASN	X	346	70.185	35.885	44.016	0.00	0.00
ATOM	5205	C	ASN	X	346	68.496	32.306	41.386	0.00	0.00
ATOM	5206	O	ASN	X	346	67.216	32.325	41.479	0.00	0.00
ATOM	5207	N	GLU	X	347	69.191	31.210	41.681	0.00	0.00
ATOM	5208	H	GLU	X	347	70.126	31.313	41.313	0.00	0.00
ATOM	5209	CA	GLU	X	347	68.819	29.984	42.407	0.00	0.00
ATOM	5210	HA	GLU	X	347	67.788	29.779	42.117	0.00	0.00
ATOM	5211	CB	GLU	X	347	69.814	28.863	42.002	0.00	0.00
ATOM	5212	HB2	GLU	X	347	70.200	29.060	41.002	0.00	0.00
ATOM	5213	HB3	GLU	X	347	70.682	28.843	42.660	0.00	0.00
ATOM	5214	CG	GLU	X	347	69.093	27.555	42.015	0.00	0.00
ATOM	5215	HG2	GLU	X	347	69.167	27.145	43.022	0.00	0.00
ATOM	5216	HG3	GLU	X	347	68.062	27.628	41.669	0.00	0.00
ATOM	5217	CD	GLU	X	347	69.691	26.554	41.022	0.00	0.00

ATOM	5218	OE1	GLU	X	347	70.437	25.666	41.415	0.00	0.00
ATOM	5219	OE2	GLU	X	347	69.437	26.650	39.804	0.00	0.00
ATOM	5220	C	GLU	X	347	68.707	30.193	43.916	0.00	0.00
ATOM	5221	O	GLU	X	347	68.061	29.415	44.529	0.00	0.00
ATOM	5222	N	SER	X	348	69.198	31.270	44.532	0.00	0.00
ATOM	5223	H	SER	X	348	69.668	31.952	43.953	0.00	0.00
ATOM	5224	CA	SER	X	348	68.812	31.649	45.931	0.00	0.00
ATOM	5225	HA	SER	X	348	69.639	32.207	46.371	0.00	0.00
ATOM	5226	CB	SER	X	348	67.487	32.451	46.033	0.00	0.00
ATOM	5227	HB2	SER	X	348	66.788	31.821	45.482	0.00	0.00
ATOM	5228	HB3	SER	X	348	67.224	32.557	47.085	0.00	0.00
ATOM	5229	OG	SER	X	348	67.826	33.741	45.443	0.00	0.00
ATOM	5230	HG	SER	X	348	67.008	33.893	44.963	0.00	0.00
ATOM	5231	C	SER	X	348	68.873	30.456	46.901	0.00	0.00
ATOM	5232	O	SER	X	348	67.926	29.994	47.478	0.00	0.00
ATOM	5233	N	LEU	X	349	70.097	30.017	47.236	0.00	0.00
ATOM	5234	H	LEU	X	349	70.906	30.420	46.787	0.00	0.00
ATOM	5235	CA	LEU	X	349	70.406	28.809	47.974	0.00	0.00
ATOM	5236	HA	LEU	X	349	69.551	28.136	47.911	0.00	0.00
ATOM	5237	CB	LEU	X	349	71.745	28.144	47.497	0.00	0.00
ATOM	5238	HB2	LEU	X	349	72.607	28.775	47.717	0.00	0.00
ATOM	5239	HB3	LEU	X	349	71.991	27.267	48.096	0.00	0.00
ATOM	5240	CG	LEU	X	349	71.736	27.769	46.043	0.00	0.00
ATOM	5241	HG	LEU	X	349	71.412	28.652	45.492	0.00	0.00
ATOM	5242	CD1	LEU	X	349	73.108	27.260	45.499	0.00	0.00
ATOM	5243	HD11	LEU	X	349	73.406	26.291	45.900	0.00	0.00
ATOM	5244	HD12	LEU	X	349	73.848	28.033	45.708	0.00	0.00
ATOM	5245	HD13	LEU	X	349	73.027	27.206	44.414	0.00	0.00
ATOM	5246	CD2	LEU	X	349	70.713	26.782	45.779	0.00	0.00
ATOM	5247	HD21	LEU	X	349	70.887	25.904	46.402	0.00	0.00
ATOM	5248	HD22	LEU	X	349	69.742	27.257	45.922	0.00	0.00
ATOM	5249	HD23	LEU	X	349	70.696	26.454	44.740	0.00	0.00
ATOM	5250	C	LEU	X	349	70.489	29.196	49.455	0.00	0.00
ATOM	5251	O	LEU	X	349	71.456	28.933	50.101	0.00	0.00
ATOM	5252	N	ILE	X	350	69.475	29.877	49.963	0.00	0.00
ATOM	5253	H	ILE	X	350	68.695	29.981	49.330	0.00	0.00
ATOM	5254	CA	ILE	X	350	69.429	30.663	51.259	0.00	0.00
ATOM	5255	HA	ILE	X	350	70.380	31.194	51.292	0.00	0.00
ATOM	5256	CB	ILE	X	350	68.151	31.554	51.379	0.00	0.00
ATOM	5257	HB	ILE	X	350	67.904	31.839	52.401	0.00	0.00
ATOM	5258	CG2	ILE	X	350	68.280	32.763	50.380	0.00	0.00
ATOM	5259	HG21	ILE	X	350	67.392	33.365	50.570	0.00	0.00
ATOM	5260	HG22	ILE	X	350	68.368	32.404	49.354	0.00	0.00
ATOM	5261	HG23	ILE	X	350	69.168	33.352	50.608	0.00	0.00
ATOM	5262	CG1	ILE	X	350	66.938	30.764	50.955	0.00	0.00
ATOM	5263	HG12	ILE	X	350	66.885	30.700	49.869	0.00	0.00
ATOM	5264	HG13	ILE	X	350	67.042	29.736	51.304	0.00	0.00
ATOM	5265	CD1	ILE	X	350	65.609	31.405	51.470	0.00	0.00
ATOM	5266	HD11	ILE	X	350	65.456	32.377	51.000	0.00	0.00
ATOM	5267	HD12	ILE	X	350	65.620	31.536	52.552	0.00	0.00
ATOM	5268	HD13	ILE	X	350	64.694	30.864	51.231	0.00	0.00
ATOM	5269	C	ILE	X	350	69.536	29.811	52.529	0.00	0.00
ATOM	5270	O	ILE	X	350	69.152	28.656	52.482	0.00	0.00
ATOM	5271	N	SER	X	351	70.066	30.328	53.654	0.00	0.00
ATOM	5272	H	SER	X	351	70.501	31.237	53.587	0.00	0.00
ATOM	5273	CA	SER	X	351	70.133	29.593	54.895	0.00	0.00
ATOM	5274	HA	SER	X	351	70.234	28.538	54.642	0.00	0.00
ATOM	5275	CB	SER	X	351	71.328	30.012	55.772	0.00	0.00
ATOM	5276	HB2	SER	X	351	71.366	29.479	56.722	0.00	0.00
ATOM	5277	HB3	SER	X	351	72.213	29.761	55.187	0.00	0.00
ATOM	5278	OG	SER	X	351	71.305	31.399	55.953	0.00	0.00
ATOM	5279	HG	SER	X	351	71.457	31.828	55.108	0.00	0.00
ATOM	5280	C	SER	X	351	68.904	30.007	55.813	0.00	0.00
ATOM	5281	O	SER	X	351	68.103	30.873	55.509	0.00	0.00
ATOM	5282	N	ARG	X	352	68.817	29.500	57.031	0.00	0.00
ATOM	5283	H	ARG	X	352	69.372	28.689	57.267	0.00	0.00
ATOM	5284	CA	ARG	X	352	67.727	29.713	57.966	0.00	0.00

ATOM	5285	HA	ARG	X	352	66.802	29.660	57.391	0.00	0.00
ATOM	5286	CB	ARG	X	352	67.747	28.595	59.023	0.00	0.00
ATOM	5287	HB2	ARG	X	352	68.725	28.573	59.504	0.00	0.00
ATOM	5288	HB3	ARG	X	352	66.958	28.877	59.720	0.00	0.00
ATOM	5289	CG	ARG	X	352	67.523	27.184	58.483	0.00	0.00
ATOM	5290	HG2	ARG	X	352	66.602	27.007	57.927	0.00	0.00
ATOM	5291	HG3	ARG	X	352	68.302	26.969	57.752	0.00	0.00
ATOM	5292	CD	ARG	X	352	67.681	26.214	59.573	0.00	0.00
ATOM	5293	HD2	ARG	X	352	67.537	25.208	59.180	0.00	0.00
ATOM	5294	HD3	ARG	X	352	68.712	26.153	59.923	0.00	0.00
ATOM	5295	NE	ARG	X	352	66.700	26.500	60.636	0.00	0.00
ATOM	5296	HE	ARG	X	352	67.034	26.881	61.510	0.00	0.00
ATOM	5297	CZ	ARG	X	352	65.443	26.317	60.674	0.00	0.00
ATOM	5298	NH1	ARG	X	352	64.790	25.895	59.630	0.00	0.00
ATOM	5299	HH11	ARG	X	352	65.213	25.726	58.729	0.00	0.00
ATOM	5300	HH12	ARG	X	352	63.802	25.704	59.726	0.00	0.00
ATOM	5301	NH2	ARG	X	352	64.788	26.589	61.803	0.00	0.00
ATOM	5302	HH21	ARG	X	352	65.303	27.163	62.456	0.00	0.00
ATOM	5303	HH22	ARG	X	352	63.784	26.510	61.879	0.00	0.00
ATOM	5304	C	ARG	X	352	67.696	31.159	58.542	0.00	0.00
ATOM	5305	O	ARG	X	352	66.608	31.621	58.847	0.00	0.00
ATOM	5306	N	ALA	X	353	68.866	31.861	58.573	0.00	0.00
ATOM	5307	H	ALA	X	353	69.697	31.342	58.330	0.00	0.00
ATOM	5308	CA	ALA	X	353	69.014	33.282	58.999	0.00	0.00
ATOM	5309	HA	ALA	X	353	68.336	33.419	59.841	0.00	0.00
ATOM	5310	CB	ALA	X	353	70.543	33.570	59.382	0.00	0.00
ATOM	5311	HB1	ALA	X	353	70.873	32.945	60.212	0.00	0.00
ATOM	5312	HB2	ALA	X	353	70.521	34.614	59.695	0.00	0.00
ATOM	5313	HB3	ALA	X	353	71.055	33.406	58.433	0.00	0.00
ATOM	5314	C	ALA	X	353	68.602	34.257	57.845	0.00	0.00
ATOM	5315	O	ALA	X	353	68.127	35.360	58.073	0.00	0.00
ATOM	5316	N	GLU	X	354	68.835	33.827	56.645	0.00	0.00
ATOM	5317	H	GLU	X	354	69.273	32.931	56.485	0.00	0.00
ATOM	5318	CA	GLU	X	354	68.453	34.496	55.460	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.693	35.549	55.605	0.00	0.00
ATOM	5320	CB	GLU	X	354	69.221	33.879	54.315	0.00	0.00
ATOM	5321	HB2	GLU	X	354	69.302	32.793	54.360	0.00	0.00
ATOM	5322	HB3	GLU	X	354	68.655	34.013	53.394	0.00	0.00
ATOM	5323	CG	GLU	X	354	70.643	34.582	54.317	0.00	0.00
ATOM	5324	HG2	GLU	X	354	70.487	35.630	54.063	0.00	0.00
ATOM	5325	HG3	GLU	X	354	71.113	34.625	55.299	0.00	0.00
ATOM	5326	CD	GLU	X	354	71.545	33.834	53.324	0.00	0.00
ATOM	5327	OE1	GLU	X	354	71.946	32.727	53.640	0.00	0.00
ATOM	5328	OE2	GLU	X	354	71.911	34.389	52.273	0.00	0.00
ATOM	5329	C	GLU	X	354	66.991	34.285	55.205	0.00	0.00
ATOM	5330	O	GLU	X	354	66.320	35.141	54.674	0.00	0.00
ATOM	5331	N	PHE	X	355	66.375	33.132	55.628	0.00	0.00
ATOM	5332	H	PHE	X	355	66.944	32.477	56.145	0.00	0.00
ATOM	5333	CA	PHE	X	355	64.963	32.938	55.773	0.00	0.00
ATOM	5334	HA	PHE	X	355	64.406	33.281	54.901	0.00	0.00
ATOM	5335	CB	PHE	X	355	64.749	31.490	55.966	0.00	0.00
ATOM	5336	HB2	PHE	X	355	65.066	30.982	55.055	0.00	0.00
ATOM	5337	HB3	PHE	X	355	65.533	31.158	56.645	0.00	0.00
ATOM	5338	CG	PHE	X	355	63.357	31.010	56.293	0.00	0.00
ATOM	5339	CD1	PHE	X	355	62.355	31.266	55.380	0.00	0.00
ATOM	5340	HD1	PHE	X	355	62.570	31.839	54.490	0.00	0.00
ATOM	5341	CE1	PHE	X	355	61.090	30.609	55.546	0.00	0.00
ATOM	5342	HE1	PHE	X	355	60.318	30.754	54.805	0.00	0.00
ATOM	5343	CZ	PHE	X	355	60.826	29.980	56.762	0.00	0.00
ATOM	5344	HZ	PHE	X	355	59.867	29.504	56.902	0.00	0.00
ATOM	5345	CE2	PHE	X	355	61.820	29.868	57.779	0.00	0.00
ATOM	5346	HE2	PHE	X	355	61.540	29.393	58.708	0.00	0.00
ATOM	5347	CD2	PHE	X	355	63.063	30.421	57.502	0.00	0.00
ATOM	5348	HD2	PHE	X	355	63.896	30.136	58.128	0.00	0.00
ATOM	5349	C	PHE	X	355	64.426	33.798	56.982	0.00	0.00
ATOM	5350	O	PHE	X	355	63.368	34.435	56.833	0.00	0.00
ATOM	5351	N	LEU	X	356	65.099	33.912	58.124	0.00	0.00

ATOM	5352	H	LEU	X	356	65.863	33.267	58.267	0.00	0.00
ATOM	5353	CA	LEU	X	356	64.702	34.765	59.237	0.00	0.00
ATOM	5354	HA	LEU	X	356	63.693	34.484	59.541	0.00	0.00
ATOM	5355	CB	LEU	X	356	65.681	34.545	60.416	0.00	0.00
ATOM	5356	HB2	LEU	X	356	65.732	33.487	60.675	0.00	0.00
ATOM	5357	HB3	LEU	X	356	66.646	34.901	60.056	0.00	0.00
ATOM	5358	CG	LEU	X	356	65.275	35.441	61.599	0.00	0.00
ATOM	5359	HG	LEU	X	356	65.350	36.469	61.247	0.00	0.00
ATOM	5360	CD1	LEU	X	356	63.950	35.271	62.319	0.00	0.00
ATOM	5361	HD11	LEU	X	356	63.049	35.310	61.707	0.00	0.00
ATOM	5362	HD12	LEU	X	356	63.959	36.048	63.084	0.00	0.00
ATOM	5363	HD13	LEU	X	356	64.052	34.322	62.846	0.00	0.00
ATOM	5364	CD2	LEU	X	356	66.348	35.340	62.644	0.00	0.00
ATOM	5365	HD21	LEU	X	356	66.205	35.989	63.509	0.00	0.00
ATOM	5366	HD22	LEU	X	356	66.462	34.326	63.028	0.00	0.00
ATOM	5367	HD23	LEU	X	356	67.323	35.537	62.198	0.00	0.00
ATOM	5368	C	LEU	X	356	64.525	36.214	58.824	0.00	0.00
ATOM	5369	O	LEU	X	356	63.526	36.820	59.249	0.00	0.00
ATOM	5370	N	ALA	X	357	65.377	36.661	57.883	0.00	0.00
ATOM	5371	H	ALA	X	357	66.173	36.122	57.574	0.00	0.00
ATOM	5372	CA	ALA	X	357	65.241	38.012	57.402	0.00	0.00
ATOM	5373	HA	ALA	X	357	64.998	38.737	58.179	0.00	0.00
ATOM	5374	CB	ALA	X	357	66.619	38.259	56.787	0.00	0.00
ATOM	5375	HB1	ALA	X	357	67.405	38.168	57.536	0.00	0.00
ATOM	5376	HB2	ALA	X	357	66.621	39.211	56.256	0.00	0.00
ATOM	5377	HB3	ALA	X	357	66.873	37.492	56.055	0.00	0.00
ATOM	5378	C	ALA	X	357	63.979	38.078	56.418	0.00	0.00
ATOM	5379	O	ALA	X	357	63.193	39.036	56.500	0.00	0.00
ATOM	5380	N	GLY	X	358	63.810	37.051	55.601	0.00	0.00
ATOM	5381	H	GLY	X	358	64.481	36.297	55.638	0.00	0.00
ATOM	5382	CA	GLY	X	358	62.642	36.940	54.704	0.00	0.00
ATOM	5383	HA2	GLY	X	358	62.611	37.788	54.019	0.00	0.00
ATOM	5384	HA3	GLY	X	358	62.751	36.057	54.074	0.00	0.00
ATOM	5385	C	GLY	X	358	61.302	36.777	55.447	0.00	0.00
ATOM	5386	O	GLY	X	358	60.341	37.418	55.010	0.00	0.00
ATOM	5387	N	VAL	X	359	61.265	36.069	56.591	0.00	0.00
ATOM	5388	H	VAL	X	359	62.048	35.515	56.905	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.077	35.944	57.448	0.00	0.00
ATOM	5390	HA	VAL	X	359	59.192	35.686	56.866	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.337	34.774	58.435	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.396	34.800	58.690	0.00	0.00
ATOM	5393	CG1	VAL	X	359	59.335	34.953	59.626	0.00	0.00
ATOM	5394	HG11	VAL	X	359	59.188	34.022	60.173	0.00	0.00
ATOM	5395	HG12	VAL	X	359	59.733	35.601	60.407	0.00	0.00
ATOM	5396	HG13	VAL	X	359	58.302	35.130	59.329	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.131	33.475	57.793	0.00	0.00
ATOM	5398	HG21	VAL	X	359	59.121	33.437	57.386	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.362	32.682	58.505	0.00	0.00
ATOM	5400	HG23	VAL	X	359	60.861	33.435	56.984	0.00	0.00
ATOM	5401	C	VAL	X	359	59.863	37.316	58.106	0.00	0.00
ATOM	5402	O	VAL	X	359	58.725	37.838	58.037	0.00	0.00
ATOM	5403	N	ARG	X	360	60.979	38.005	58.575	0.00	0.00
ATOM	5404	H	ARG	X	360	61.872	37.538	58.507	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.885	39.326	59.235	0.00	0.00
ATOM	5406	HA	ARG	X	360	60.118	39.286	60.009	0.00	0.00
ATOM	5407	CB	ARG	X	360	62.224	39.742	59.821	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.549	38.862	60.375	0.00	0.00
ATOM	5409	HB3	ARG	X	360	62.954	39.925	59.032	0.00	0.00
ATOM	5410	CG	ARG	X	360	62.168	40.893	60.767	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.792	41.724	60.169	0.00	0.00
ATOM	5412	HG3	ARG	X	360	61.381	40.693	61.494	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.491	41.211	61.380	0.00	0.00
ATOM	5414	HD2	ARG	X	360	63.331	41.896	62.213	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.973	40.376	61.889	0.00	0.00
ATOM	5416	NE	ARG	X	360	64.296	41.775	60.343	0.00	0.00
ATOM	5417	HE	ARG	X	360	63.846	42.548	59.875	0.00	0.00
ATOM	5418	CZ	ARG	X	360	65.365	41.138	59.820	0.00	0.00

ATOM	5419	NH1	ARG	X	360	65.997	40.202	60.521	0.00	0.00
ATOM	5420	HH11	ARG	X	360	65.788	40.066	61.499	0.00	0.00
ATOM	5421	HH12	ARG	X	360	66.737	39.658	60.100	0.00	0.00
ATOM	5422	NH2	ARG	X	360	65.922	41.560	58.692	0.00	0.00
ATOM	5423	HH21	ARG	X	360	65.414	42.236	58.141	0.00	0.00
ATOM	5424	HH22	ARG	X	360	66.820	41.160	58.459	0.00	0.00
ATOM	5425	C	ARG	X	360	60.220	40.308	58.239	0.00	0.00
ATOM	5426	O	ARG	X	360	59.104	40.759	58.464	0.00	0.00
ATOM	5427	N	VAL	X	361	60.836	40.548	57.049	0.00	0.00
ATOM	5428	H	VAL	X	361	61.687	40.037	56.859	0.00	0.00
ATOM	5429	CA	VAL	X	361	60.362	41.491	56.041	0.00	0.00
ATOM	5430	HA	VAL	X	361	60.088	42.360	56.640	0.00	0.00
ATOM	5431	CB	VAL	X	361	61.405	41.924	54.942	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.981	42.763	54.390	0.00	0.00
ATOM	5433	CG1	VAL	X	361	62.722	42.456	55.640	0.00	0.00
ATOM	5434	HG11	VAL	X	361	62.428	43.276	56.295	0.00	0.00
ATOM	5435	HG12	VAL	X	361	63.193	41.712	56.282	0.00	0.00
ATOM	5436	HG13	VAL	X	361	63.371	42.728	54.807	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.677	40.773	53.953	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.738	40.441	53.509	0.00	0.00
ATOM	5439	HG22	VAL	X	361	62.014	39.858	54.441	0.00	0.00
ATOM	5440	HG23	VAL	X	361	62.447	41.116	53.263	0.00	0.00
ATOM	5441	C	VAL	X	361	59.006	41.054	55.382	0.00	0.00
ATOM	5442	O	VAL	X	361	58.146	41.864	55.135	0.00	0.00
ATOM	5443	N	GLY	X	362	58.748	39.766	55.214	0.00	0.00
ATOM	5444	H	GLY	X	362	59.518	39.212	55.558	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.632	39.082	54.605	0.00	0.00
ATOM	5446	HA2	GLY	X	362	57.397	39.448	53.606	0.00	0.00
ATOM	5447	HA3	GLY	X	362	57.951	38.041	54.548	0.00	0.00
ATOM	5448	C	GLY	X	362	56.354	39.126	55.437	0.00	0.00
ATOM	5449	O	GLY	X	362	55.265	39.013	54.814	0.00	0.00
ATOM	5450	N	VAL	X	363	56.461	39.372	56.744	0.00	0.00
ATOM	5451	H	VAL	X	363	57.379	39.254	57.150	0.00	0.00
ATOM	5452	CA	VAL	X	363	55.323	39.670	57.596	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.395	39.775	57.034	0.00	0.00
ATOM	5454	CB	VAL	X	363	55.264	38.577	58.651	0.00	0.00
ATOM	5455	HB	VAL	X	363	56.122	38.755	59.299	0.00	0.00
ATOM	5456	CG1	VAL	X	363	53.946	38.736	59.422	0.00	0.00
ATOM	5457	HG11	VAL	X	363	53.742	37.888	60.075	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.903	39.666	59.988	0.00	0.00
ATOM	5459	HG13	VAL	X	363	53.093	38.763	58.744	0.00	0.00
ATOM	5460	CG2	VAL	X	363	55.185	37.115	58.171	0.00	0.00
ATOM	5461	HG21	VAL	X	363	55.423	36.429	58.984	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.932	36.969	57.391	0.00	0.00
ATOM	5463	HG23	VAL	X	363	54.250	36.804	57.705	0.00	0.00
ATOM	5464	C	VAL	X	363	55.473	41.045	58.267	0.00	0.00
ATOM	5465	O	VAL	X	363	56.332	41.227	59.090	0.00	0.00
ATOM	5466	N	PRO	X	364	54.599	42.057	58.050	0.00	0.00
ATOM	5467	CD	PRO	X	364	53.845	42.230	56.767	0.00	0.00
ATOM	5468	HD2	PRO	X	364	53.052	41.484	56.718	0.00	0.00
ATOM	5469	HD3	PRO	X	364	54.582	42.096	55.975	0.00	0.00
ATOM	5470	CG	PRO	X	364	53.421	43.742	56.717	0.00	0.00
ATOM	5471	HG2	PRO	X	364	52.401	43.818	56.339	0.00	0.00
ATOM	5472	HG3	PRO	X	364	54.039	44.356	56.061	0.00	0.00
ATOM	5473	CB	PRO	X	364	53.528	44.092	58.165	0.00	0.00
ATOM	5474	HB2	PRO	X	364	52.556	43.792	58.556	0.00	0.00
ATOM	5475	HB3	PRO	X	364	53.632	45.169	58.300	0.00	0.00
ATOM	5476	CA	PRO	X	364	54.610	43.307	58.825	0.00	0.00
ATOM	5477	HA	PRO	X	364	55.540	43.847	58.653	0.00	0.00
ATOM	5478	C	PRO	X	364	54.289	43.077	60.277	0.00	0.00
ATOM	5479	O	PRO	X	364	53.671	42.101	60.714	0.00	0.00
ATOM	5480	N	GLN	X	365	54.631	44.066	61.119	0.00	0.00
ATOM	5481	H	GLN	X	365	55.246	44.773	60.742	0.00	0.00
ATOM	5482	CA	GLN	X	365	54.358	44.180	62.520	0.00	0.00
ATOM	5483	HA	GLN	X	365	54.571	45.226	62.742	0.00	0.00
ATOM	5484	CB	GLN	X	365	52.727	44.122	62.708	0.00	0.00
ATOM	5485	HB2	GLN	X	365	52.154	44.129	61.781	0.00	0.00

ATOM	5486	HB3	GLN	X	365	52.498	43.184	63.214	0.00	0.00
ATOM	5487	CG	GLN	X	365	52.333	45.373	63.570	0.00	0.00
ATOM	5488	HG2	GLN	X	365	53.142	45.459	64.295	0.00	0.00
ATOM	5489	HG3	GLN	X	365	52.277	46.319	63.031	0.00	0.00
ATOM	5490	CD	GLN	X	365	50.970	45.242	64.219	0.00	0.00
ATOM	5491	OE1	GLN	X	365	49.956	45.573	63.659	0.00	0.00
ATOM	5492	NE2	GLN	X	365	50.879	44.777	65.437	0.00	0.00
ATOM	5493	HE21	GLN	X	365	49.918	44.733	65.742	0.00	0.00
ATOM	5494	HE22	GLN	X	365	51.579	44.555	66.130	0.00	0.00
ATOM	5495	C	GLN	X	365	55.234	43.361	63.530	0.00	0.00
ATOM	5496	O	GLN	X	365	55.688	43.841	64.578	0.00	0.00
ATOM	5497	N	VAL	X	366	55.617	42.247	62.976	0.00	0.00
ATOM	5498	H	VAL	X	366	55.240	42.027	62.065	0.00	0.00
ATOM	5499	CA	VAL	X	366	56.304	41.150	63.563	0.00	0.00
ATOM	5500	HA	VAL	X	366	55.875	40.990	64.553	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.100	39.882	62.753	0.00	0.00
ATOM	5502	HB	VAL	X	366	56.223	40.217	61.723	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.054	38.735	62.998	0.00	0.00
ATOM	5504	HG11	VAL	X	366	57.242	38.578	64.061	0.00	0.00
ATOM	5505	HG12	VAL	X	366	56.762	37.813	62.495	0.00	0.00
ATOM	5506	HG13	VAL	X	366	57.984	39.020	62.507	0.00	0.00
ATOM	5507	CG2	VAL	X	366	54.697	39.345	63.006	0.00	0.00
ATOM	5508	HG21	VAL	X	366	54.018	40.168	62.784	0.00	0.00
ATOM	5509	HG22	VAL	X	366	54.636	39.044	64.052	0.00	0.00
ATOM	5510	HG23	VAL	X	366	54.487	38.402	62.503	0.00	0.00
ATOM	5511	C	VAL	X	366	57.835	41.531	63.835	0.00	0.00
ATOM	5512	O	VAL	X	366	58.566	41.860	62.929	0.00	0.00
ATOM	5513	N	SER	X	367	58.233	41.448	65.114	0.00	0.00
ATOM	5514	H	SER	X	367	57.558	41.270	65.843	0.00	0.00
ATOM	5515	CA	SER	X	367	59.671	41.766	65.406	0.00	0.00
ATOM	5516	HA	SER	X	367	59.991	42.642	64.842	0.00	0.00
ATOM	5517	CB	SER	X	367	59.857	42.055	66.920	0.00	0.00
ATOM	5518	HB2	SER	X	367	60.821	42.549	67.039	0.00	0.00
ATOM	5519	HB3	SER	X	367	59.135	42.792	67.272	0.00	0.00
ATOM	5520	OG	SER	X	367	59.799	40.843	67.661	0.00	0.00
ATOM	5521	HG	SER	X	367	59.797	41.066	68.595	0.00	0.00
ATOM	5522	C	SER	X	367	60.567	40.623	64.988	0.00	0.00
ATOM	5523	O	SER	X	367	60.044	39.560	64.624	0.00	0.00
ATOM	5524	N	ASP	X	368	61.879	40.885	65.091	0.00	0.00
ATOM	5525	H	ASP	X	368	62.134	41.838	65.310	0.00	0.00
ATOM	5526	CA	ASP	X	368	62.906	39.998	64.809	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.827	39.620	63.790	0.00	0.00
ATOM	5528	CB	ASP	X	368	64.181	40.798	64.973	0.00	0.00
ATOM	5529	HB2	ASP	X	368	64.214	41.609	64.245	0.00	0.00
ATOM	5530	HB3	ASP	X	368	64.145	41.172	65.996	0.00	0.00
ATOM	5531	CG	ASP	X	368	65.403	39.988	64.826	0.00	0.00
ATOM	5532	OD1	ASP	X	368	65.963	39.617	65.904	0.00	0.00
ATOM	5533	OD2	ASP	X	368	65.892	39.848	63.727	0.00	0.00
ATOM	5534	C	ASP	X	368	62.792	38.745	65.758	0.00	0.00
ATOM	5535	O	ASP	X	368	63.116	37.609	65.290	0.00	0.00
ATOM	5536	N	LEU	X	369	62.227	38.988	66.956	0.00	0.00
ATOM	5537	H	LEU	X	369	62.002	39.911	67.299	0.00	0.00
ATOM	5538	CA	LEU	X	369	62.128	37.965	67.939	0.00	0.00
ATOM	5539	HA	LEU	X	369	62.949	37.253	67.853	0.00	0.00
ATOM	5540	CB	LEU	X	369	62.168	38.632	69.286	0.00	0.00
ATOM	5541	HB2	LEU	X	369	62.983	39.353	69.351	0.00	0.00
ATOM	5542	HB3	LEU	X	369	61.228	39.146	69.488	0.00	0.00
ATOM	5543	CG	LEU	X	369	62.281	37.597	70.491	0.00	0.00
ATOM	5544	HG	LEU	X	369	61.422	36.928	70.435	0.00	0.00
ATOM	5545	CD1	LEU	X	369	63.555	36.740	70.460	0.00	0.00
ATOM	5546	HD11	LEU	X	369	64.391	37.440	70.447	0.00	0.00
ATOM	5547	HD12	LEU	X	369	63.691	36.152	69.553	0.00	0.00
ATOM	5548	HD13	LEU	X	369	63.566	36.190	71.401	0.00	0.00
ATOM	5549	CD2	LEU	X	369	62.253	38.483	71.847	0.00	0.00
ATOM	5550	HD21	LEU	X	369	63.105	39.160	71.914	0.00	0.00
ATOM	5551	HD22	LEU	X	369	61.321	39.044	71.909	0.00	0.00
ATOM	5552	HD23	LEU	X	369	62.252	37.822	72.714	0.00	0.00

ATOM	5553	C	LEU	X	369	60.814	37.169	67.817	0.00	0.00
ATOM	5554	O	LEU	X	369	60.849	35.923	67.936	0.00	0.00
ATOM	5555	N	ALA	X	370	59.704	37.823	67.493	0.00	0.00
ATOM	5556	H	ALA	X	370	59.700	38.829	67.590	0.00	0.00
ATOM	5557	CA	ALA	X	370	58.584	37.019	67.013	0.00	0.00
ATOM	5558	HA	ALA	X	370	58.228	36.248	67.696	0.00	0.00
ATOM	5559	CB	ALA	X	370	57.497	38.038	66.854	0.00	0.00
ATOM	5560	HB1	ALA	X	370	57.150	38.475	67.791	0.00	0.00
ATOM	5561	HB2	ALA	X	370	56.727	37.494	66.306	0.00	0.00
ATOM	5562	HB3	ALA	X	370	57.871	38.860	66.244	0.00	0.00
ATOM	5563	C	ALA	X	370	58.883	36.280	65.704	0.00	0.00
ATOM	5564	O	ALA	X	370	58.608	35.100	65.656	0.00	0.00
ATOM	5565	N	ALA	X	371	59.583	36.826	64.706	0.00	0.00
ATOM	5566	H	ALA	X	371	59.734	37.825	64.715	0.00	0.00
ATOM	5567	CA	ALA	X	371	60.003	36.115	63.464	0.00	0.00
ATOM	5568	HA	ALA	X	371	59.171	35.847	62.812	0.00	0.00
ATOM	5569	CB	ALA	X	371	60.783	37.168	62.614	0.00	0.00
ATOM	5570	HB1	ALA	X	371	61.600	37.623	63.175	0.00	0.00
ATOM	5571	HB2	ALA	X	371	60.104	37.965	62.313	0.00	0.00
ATOM	5572	HB3	ALA	X	371	61.240	36.683	61.751	0.00	0.00
ATOM	5573	C	ALA	X	371	60.935	34.925	63.798	0.00	0.00
ATOM	5574	O	ALA	X	371	60.573	33.842	63.371	0.00	0.00
ATOM	5575	N	GLU	X	372	61.885	35.011	64.744	0.00	0.00
ATOM	5576	H	GLU	X	372	62.162	35.907	65.120	0.00	0.00
ATOM	5577	CA	GLU	X	372	62.557	33.775	65.231	0.00	0.00
ATOM	5578	HA	GLU	X	372	63.270	33.338	64.532	0.00	0.00
ATOM	5579	CB	GLU	X	372	63.428	34.162	66.437	0.00	0.00
ATOM	5580	HB2	GLU	X	372	64.260	34.821	66.189	0.00	0.00
ATOM	5581	HB3	GLU	X	372	62.847	34.498	67.296	0.00	0.00
ATOM	5582	CG	GLU	X	372	64.188	32.856	66.928	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.469	32.121	67.289	0.00	0.00
ATOM	5584	HG3	GLU	X	372	64.769	32.368	66.146	0.00	0.00
ATOM	5585	CD	GLU	X	372	65.138	33.141	68.091	0.00	0.00
ATOM	5586	OE1	GLU	X	372	64.680	33.221	69.271	0.00	0.00
ATOM	5587	OE2	GLU	X	372	66.382	33.144	67.842	0.00	0.00
ATOM	5588	C	GLU	X	372	61.543	32.713	65.637	0.00	0.00
ATOM	5589	O	GLU	X	372	61.817	31.558	65.297	0.00	0.00
ATOM	5590	N	ALA	X	373	60.443	33.067	66.316	0.00	0.00
ATOM	5591	H	ALA	X	373	60.229	34.034	66.513	0.00	0.00
ATOM	5592	CA	ALA	X	373	59.508	32.112	66.750	0.00	0.00
ATOM	5593	HA	ALA	X	373	60.026	31.247	67.163	0.00	0.00
ATOM	5594	CB	ALA	X	373	58.720	32.710	67.909	0.00	0.00
ATOM	5595	HB1	ALA	X	373	58.438	33.738	67.682	0.00	0.00
ATOM	5596	HB2	ALA	X	373	59.223	32.621	68.871	0.00	0.00
ATOM	5597	HB3	ALA	X	373	57.814	32.111	68.008	0.00	0.00
ATOM	5598	C	ALA	X	373	58.627	31.606	65.555	0.00	0.00
ATOM	5599	O	ALA	X	373	58.168	30.501	65.546	0.00	0.00
ATOM	5600	N	VAL	X	374	58.429	32.386	64.524	0.00	0.00
ATOM	5601	H	VAL	X	374	58.970	33.235	64.444	0.00	0.00
ATOM	5602	CA	VAL	X	374	57.603	32.002	63.324	0.00	0.00
ATOM	5603	HA	VAL	X	374	56.799	31.374	63.708	0.00	0.00
ATOM	5604	CB	VAL	X	374	57.121	33.296	62.617	0.00	0.00
ATOM	5605	HB	VAL	X	374	57.997	33.915	62.425	0.00	0.00
ATOM	5606	CG1	VAL	X	374	56.330	32.932	61.311	0.00	0.00
ATOM	5607	HG11	VAL	X	374	55.545	32.227	61.583	0.00	0.00
ATOM	5608	HG12	VAL	X	374	55.868	33.758	60.771	0.00	0.00
ATOM	5609	HG13	VAL	X	374	57.020	32.517	60.575	0.00	0.00
ATOM	5610	CG2	VAL	X	374	56.078	34.095	63.429	0.00	0.00
ATOM	5611	HG21	VAL	X	374	55.707	35.037	63.023	0.00	0.00
ATOM	5612	HG22	VAL	X	374	56.448	34.315	64.431	0.00	0.00
ATOM	5613	HG23	VAL	X	374	55.249	33.395	63.531	0.00	0.00
ATOM	5614	C	VAL	X	374	58.453	31.143	62.358	0.00	0.00
ATOM	5615	O	VAL	X	374	57.976	30.172	61.791	0.00	0.00
ATOM	5616	N	VAL	X	375	59.764	31.391	62.289	0.00	0.00
ATOM	5617	H	VAL	X	375	60.128	32.258	62.657	0.00	0.00
ATOM	5618	CA	VAL	X	375	60.740	30.468	61.693	0.00	0.00
ATOM	5619	HA	VAL	X	375	60.418	30.437	60.652	0.00	0.00

ATOM	5620	CB	VAL	X	375	62.176	31.133	61.741	0.00	0.00
ATOM	5621	HB	VAL	X	375	62.408	31.568	62.713	0.00	0.00
ATOM	5622	CG1	VAL	X	375	63.315	30.165	61.320	0.00	0.00
ATOM	5623	HG11	VAL	X	375	64.301	30.628	61.272	0.00	0.00
ATOM	5624	HG12	VAL	X	375	63.455	29.445	62.126	0.00	0.00
ATOM	5625	HG13	VAL	X	375	63.085	29.617	60.406	0.00	0.00
ATOM	5626	CG2	VAL	X	375	62.220	32.284	60.751	0.00	0.00
ATOM	5627	HG21	VAL	X	375	63.227	32.703	60.762	0.00	0.00
ATOM	5628	HG22	VAL	X	375	61.513	33.078	60.990	0.00	0.00
ATOM	5629	HG23	VAL	X	375	62.011	31.910	59.748	0.00	0.00
ATOM	5630	C	VAL	X	375	60.712	29.089	62.317	0.00	0.00
ATOM	5631	O	VAL	X	375	60.668	28.015	61.623	0.00	0.00
ATOM	5632	N	LEU	X	376	60.825	29.100	63.648	0.00	0.00
ATOM	5633	H	LEU	X	376	60.920	29.966	64.159	0.00	0.00
ATOM	5634	CA	LEU	X	376	60.549	27.868	64.390	0.00	0.00
ATOM	5635	HA	LEU	X	376	61.367	27.200	64.120	0.00	0.00
ATOM	5636	CB	LEU	X	376	60.674	28.252	65.902	0.00	0.00
ATOM	5637	HB2	LEU	X	376	61.688	28.644	65.974	0.00	0.00
ATOM	5638	HB3	LEU	X	376	60.083	29.150	66.084	0.00	0.00
ATOM	5639	CG	LEU	X	376	60.512	27.166	67.058	0.00	0.00
ATOM	5640	HG	LEU	X	376	60.887	27.632	67.970	0.00	0.00
ATOM	5641	CD1	LEU	X	376	59.109	26.597	67.371	0.00	0.00
ATOM	5642	HD11	LEU	X	376	58.419	27.392	67.652	0.00	0.00
ATOM	5643	HD12	LEU	X	376	59.308	25.943	68.219	0.00	0.00
ATOM	5644	HD13	LEU	X	376	58.696	25.893	66.648	0.00	0.00
ATOM	5645	CD2	LEU	X	376	61.500	26.060	66.725	0.00	0.00
ATOM	5646	HD21	LEU	X	376	62.518	26.437	66.819	0.00	0.00
ATOM	5647	HD22	LEU	X	376	61.441	25.209	67.403	0.00	0.00
ATOM	5648	HD23	LEU	X	376	61.301	25.615	65.751	0.00	0.00
ATOM	5649	C	LEU	X	376	59.198	27.157	64.103	0.00	0.00
ATOM	5650	O	LEU	X	376	59.258	25.930	63.819	0.00	0.00
ATOM	5651	N	HIE	X	377	57.978	27.808	63.965	0.00	0.00
ATOM	5652	H	HIE	X	377	58.013	28.815	64.033	0.00	0.00
ATOM	5653	CA	HIE	X	377	56.694	27.200	63.554	0.00	0.00
ATOM	5654	HA	HIE	X	377	56.412	26.424	64.264	0.00	0.00
ATOM	5655	CB	HIE	X	377	55.573	28.230	63.604	0.00	0.00
ATOM	5656	HB2	HIE	X	377	55.459	28.417	64.671	0.00	0.00
ATOM	5657	HB3	HIE	X	377	55.903	29.089	63.020	0.00	0.00
ATOM	5658	CG	HIE	X	377	54.245	27.845	63.034	0.00	0.00
ATOM	5659	ND1	HIE	X	377	53.138	27.164	63.582	0.00	0.00
ATOM	5660	CE1	HIE	X	377	52.165	27.226	62.606	0.00	0.00
ATOM	5661	HE1	HIE	X	377	51.140	26.920	62.754	0.00	0.00
ATOM	5662	NE2	HIE	X	377	52.581	27.921	61.578	0.00	0.00
ATOM	5663	HE2	HIE	X	377	52.060	28.049	60.722	0.00	0.00
ATOM	5664	CD2	HIE	X	377	53.872	28.331	61.824	0.00	0.00
ATOM	5665	HD2	HIE	X	377	54.481	29.008	61.244	0.00	0.00
ATOM	5666	C	HIE	X	377	56.749	26.548	62.118	0.00	0.00
ATOM	5667	O	HIE	X	377	56.145	25.504	61.896	0.00	0.00
ATOM	5668	N	TYR	X	378	57.560	27.153	61.193	0.00	0.00
ATOM	5669	H	TYR	X	378	57.846	28.099	61.404	0.00	0.00
ATOM	5670	CA	TYR	X	378	57.821	26.542	59.912	0.00	0.00
ATOM	5671	HA	TYR	X	378	56.867	26.163	59.545	0.00	0.00
ATOM	5672	CB	TYR	X	378	58.275	27.651	58.942	0.00	0.00
ATOM	5673	HB2	TYR	X	378	58.910	28.346	59.491	0.00	0.00
ATOM	5674	HB3	TYR	X	378	58.836	27.160	58.146	0.00	0.00
ATOM	5675	CG	TYR	X	378	57.103	28.228	58.218	0.00	0.00
ATOM	5676	CD1	TYR	X	378	56.768	27.721	56.971	0.00	0.00
ATOM	5677	HD1	TYR	X	378	57.426	26.986	56.532	0.00	0.00
ATOM	5678	CE1	TYR	X	378	55.701	28.252	56.275	0.00	0.00
ATOM	5679	HE1	TYR	X	378	55.530	27.937	55.256	0.00	0.00
ATOM	5680	CZ	TYR	X	378	54.756	29.095	56.961	0.00	0.00
ATOM	5681	OH	TYR	X	378	53.549	29.449	56.429	0.00	0.00
ATOM	5682	HH	TYR	X	378	53.540	29.141	55.520	0.00	0.00
ATOM	5683	CE2	TYR	X	378	55.123	29.579	58.249	0.00	0.00
ATOM	5684	HE2	TYR	X	378	54.471	30.304	58.712	0.00	0.00
ATOM	5685	CD2	TYR	X	378	56.338	29.156	58.867	0.00	0.00
ATOM	5686	HD2	TYR	X	378	56.621	29.454	59.866	0.00	0.00

ATOM	5687	C	TYR	X	378	58.805	25.326	59.857	0.00	0.00
ATOM	5688	O	TYR	X	378	58.607	24.475	58.959	0.00	0.00
ATOM	5689	N	THR	X	379	59.574	25.179	60.918	0.00	0.00
ATOM	5690	H	THR	X	379	59.534	25.863	61.660	0.00	0.00
ATOM	5691	CA	THR	X	379	60.541	24.121	60.935	0.00	0.00
ATOM	5692	HA	THR	X	379	61.085	24.070	59.992	0.00	0.00
ATOM	5693	CB	THR	X	379	61.604	24.357	62.060	0.00	0.00
ATOM	5694	HB	THR	X	379	61.069	24.223	63.000	0.00	0.00
ATOM	5695	CG2	THR	X	379	62.735	23.349	62.040	0.00	0.00
ATOM	5696	HG21	THR	X	379	63.225	23.170	61.083	0.00	0.00
ATOM	5697	HG22	THR	X	379	62.313	22.424	62.432	0.00	0.00
ATOM	5698	HG23	THR	X	379	63.581	23.606	62.677	0.00	0.00
ATOM	5699	OG1	THR	X	379	62.188	25.631	61.984	0.00	0.00
ATOM	5700	HG1	THR	X	379	61.538	26.163	61.519	0.00	0.00
ATOM	5701	C	THR	X	379	59.787	22.811	60.962	0.00	0.00
ATOM	5702	O	THR	X	379	58.890	22.517	61.736	0.00	0.00
ATOM	5703	N	ASP	X	380	60.114	21.990	60.028	0.00	0.00
ATOM	5704	H	ASP	X	380	60.808	22.436	59.445	0.00	0.00
ATOM	5705	CA	ASP	X	380	59.973	20.574	60.042	0.00	0.00
ATOM	5706	HA	ASP	X	380	59.325	20.250	60.857	0.00	0.00
ATOM	5707	CB	ASP	X	380	59.151	20.199	58.831	0.00	0.00
ATOM	5708	HB2	ASP	X	380	58.248	20.805	58.906	0.00	0.00
ATOM	5709	HB3	ASP	X	380	59.604	20.583	57.917	0.00	0.00
ATOM	5710	CG	ASP	X	380	58.817	18.715	58.757	0.00	0.00
ATOM	5711	OD1	ASP	X	380	57.892	18.243	59.447	0.00	0.00
ATOM	5712	OD2	ASP	X	380	59.698	18.055	58.163	0.00	0.00
ATOM	5713	C	ASP	X	380	61.375	19.900	60.139	0.00	0.00
ATOM	5714	O	ASP	X	380	62.403	20.417	59.690	0.00	0.00
ATOM	5715	N	TRP	X	381	61.314	18.740	60.779	0.00	0.00
ATOM	5716	H	TRP	X	381	60.419	18.354	61.043	0.00	0.00
ATOM	5717	CA	TRP	X	381	62.551	18.094	61.362	0.00	0.00
ATOM	5718	HA	TRP	X	381	63.305	18.877	61.446	0.00	0.00
ATOM	5719	CB	TRP	X	381	62.350	17.428	62.707	0.00	0.00
ATOM	5720	HB2	TRP	X	381	61.507	16.741	62.641	0.00	0.00
ATOM	5721	HB3	TRP	X	381	63.242	16.846	62.936	0.00	0.00
ATOM	5722	CG	TRP	X	381	62.148	18.361	63.825	0.00	0.00
ATOM	5723	CD1	TRP	X	381	61.356	19.469	63.873	0.00	0.00
ATOM	5724	HD1	TRP	X	381	60.948	19.939	62.991	0.00	0.00
ATOM	5725	NE1	TRP	X	381	61.407	20.019	65.166	0.00	0.00
ATOM	5726	HE1	TRP	X	381	61.168	20.995	65.264	0.00	0.00
ATOM	5727	CE2	TRP	X	381	61.948	19.208	66.109	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	62.117	19.264	67.502	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	61.794	20.125	68.067	0.00	0.00
ATOM	5730	CH2	TRP	X	381	62.921	18.361	68.092	0.00	0.00
ATOM	5731	HH2	TRP	X	381	63.138	18.363	69.149	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	63.475	17.338	67.282	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	64.097	16.596	67.759	0.00	0.00
ATOM	5734	CE3	TRP	X	381	63.229	17.209	65.941	0.00	0.00
ATOM	5735	HE3	TRP	X	381	63.642	16.367	65.405	0.00	0.00
ATOM	5736	CD2	TRP	X	381	62.461	18.139	65.276	0.00	0.00
ATOM	5737	C	TRP	X	381	63.337	17.180	60.407	0.00	0.00
ATOM	5738	O	TRP	X	381	64.429	16.661	60.726	0.00	0.00
ATOM	5739	N	LEU	X	382	62.667	16.857	59.302	0.00	0.00
ATOM	5740	H	LEU	X	382	61.703	17.151	59.230	0.00	0.00
ATOM	5741	CA	LEU	X	382	63.163	16.037	58.163	0.00	0.00
ATOM	5742	HA	LEU	X	382	63.401	15.063	58.590	0.00	0.00
ATOM	5743	CB	LEU	X	382	62.046	15.831	57.078	0.00	0.00
ATOM	5744	HB2	LEU	X	382	61.190	15.562	57.697	0.00	0.00
ATOM	5745	HB3	LEU	X	382	61.814	16.782	56.597	0.00	0.00
ATOM	5746	CG	LEU	X	382	62.291	14.766	55.902	0.00	0.00
ATOM	5747	HG	LEU	X	382	62.607	13.848	56.397	0.00	0.00
ATOM	5748	CD1	LEU	X	382	60.970	14.554	55.175	0.00	0.00
ATOM	5749	HD11	LEU	X	382	60.637	15.457	54.663	0.00	0.00
ATOM	5750	HD12	LEU	X	382	60.374	14.181	56.009	0.00	0.00
ATOM	5751	HD13	LEU	X	382	61.019	13.768	54.423	0.00	0.00
ATOM	5752	CD2	LEU	X	382	63.309	15.241	54.868	0.00	0.00
ATOM	5753	HD21	LEU	X	382	63.332	14.553	54.022	0.00	0.00

ATOM	5754	HD22	LEU	X	382	62.915	16.199	54.528	0.00	0.00
ATOM	5755	HD23	LEU	X	382	64.280	15.333	55.355	0.00	0.00
ATOM	5756	C	LEU	X	382	64.454	16.657	57.569	0.00	0.00
ATOM	5757	O	LEU	X	382	65.525	16.009	57.619	0.00	0.00
ATOM	5758	N	HIE	X	383	64.338	17.934	57.168	0.00	0.00
ATOM	5759	H	HIE	X	383	63.438	18.390	57.220	0.00	0.00
ATOM	5760	CA	HIE	X	383	65.478	18.644	56.633	0.00	0.00
ATOM	5761	HA	HIE	X	383	66.414	18.272	57.051	0.00	0.00
ATOM	5762	CB	HIE	X	383	65.588	18.347	55.117	0.00	0.00
ATOM	5763	HB2	HIE	X	383	65.578	17.264	54.997	0.00	0.00
ATOM	5764	HB3	HIE	X	383	64.735	18.784	54.598	0.00	0.00
ATOM	5765	CG	HIE	X	383	66.866	18.830	54.522	0.00	0.00
ATOM	5766	ND1	HIE	X	383	67.564	19.918	55.044	0.00	0.00
ATOM	5767	CE1	HIE	X	383	68.685	20.064	54.349	0.00	0.00
ATOM	5768	HE1	HIE	X	383	69.406	20.839	54.561	0.00	0.00
ATOM	5769	NE2	HIE	X	383	68.745	19.118	53.449	0.00	0.00
ATOM	5770	HE2	HIE	X	383	69.430	19.178	52.709	0.00	0.00
ATOM	5771	CD2	HIE	X	383	67.595	18.341	53.503	0.00	0.00
ATOM	5772	HD2	HIE	X	383	67.225	17.593	52.818	0.00	0.00
ATOM	5773	C	HIE	X	383	65.323	20.161	56.842	0.00	0.00
ATOM	5774	O	HIE	X	383	64.670	20.860	56.044	0.00	0.00
ATOM	5775	N	PRO	X	384	65.768	20.617	58.035	0.00	0.00
ATOM	5776	CD	PRO	X	384	65.942	19.811	59.168	0.00	0.00
ATOM	5777	HD2	PRO	X	384	66.951	19.401	59.120	0.00	0.00
ATOM	5778	HD3	PRO	X	384	65.259	18.971	59.298	0.00	0.00
ATOM	5779	CG	PRO	X	384	65.807	20.809	60.394	0.00	0.00
ATOM	5780	HG2	PRO	X	384	66.416	20.484	61.237	0.00	0.00
ATOM	5781	HG3	PRO	X	384	64.833	20.864	60.881	0.00	0.00
ATOM	5782	CB	PRO	X	384	66.128	22.213	59.807	0.00	0.00
ATOM	5783	HB2	PRO	X	384	67.193	22.440	59.856	0.00	0.00
ATOM	5784	HB3	PRO	X	384	65.609	22.979	60.384	0.00	0.00
ATOM	5785	CA	PRO	X	384	65.576	22.068	58.424	0.00	0.00
ATOM	5786	HA	PRO	X	384	64.526	22.343	58.330	0.00	0.00
ATOM	5787	C	PRO	X	384	66.323	23.125	57.593	0.00	0.00
ATOM	5788	O	PRO	X	384	65.830	24.247	57.635	0.00	0.00
ATOM	5789	N	GLU	X	385	67.416	22.840	56.866	0.00	0.00
ATOM	5790	H	GLU	X	385	67.795	21.918	57.027	0.00	0.00
ATOM	5791	CA	GLU	X	385	68.200	23.779	56.092	0.00	0.00
ATOM	5792	HA	GLU	X	385	67.844	24.786	56.311	0.00	0.00
ATOM	5793	CB	GLU	X	385	69.670	23.717	56.454	0.00	0.00
ATOM	5794	HB2	GLU	X	385	70.131	22.739	56.316	0.00	0.00
ATOM	5795	HB3	GLU	X	385	70.178	24.279	55.670	0.00	0.00
ATOM	5796	CG	GLU	X	385	70.017	24.385	57.741	0.00	0.00
ATOM	5797	HG2	GLU	X	385	69.643	25.407	57.680	0.00	0.00
ATOM	5798	HG3	GLU	X	385	69.400	23.859	58.470	0.00	0.00
ATOM	5799	CD	GLU	X	385	71.447	24.359	58.067	0.00	0.00
ATOM	5800	OE1	GLU	X	385	71.717	24.919	59.166	0.00	0.00
ATOM	5801	OE2	GLU	X	385	72.301	23.632	57.479	0.00	0.00
ATOM	5802	C	GLU	X	385	67.964	23.686	54.549	0.00	0.00
ATOM	5803	O	GLU	X	385	68.479	24.501	53.849	0.00	0.00
ATOM	5804	N	ASP	X	386	67.041	22.802	54.007	0.00	0.00
ATOM	5805	H	ASP	X	386	66.590	22.134	54.615	0.00	0.00
ATOM	5806	CA	ASP	X	386	66.847	22.599	52.599	0.00	0.00
ATOM	5807	HA	ASP	X	386	67.842	22.278	52.291	0.00	0.00
ATOM	5808	CB	ASP	X	386	65.841	21.501	52.312	0.00	0.00
ATOM	5809	HB2	ASP	X	386	66.086	20.626	52.914	0.00	0.00
ATOM	5810	HB3	ASP	X	386	64.846	21.845	52.596	0.00	0.00
ATOM	5811	CG	ASP	X	386	65.963	21.025	50.873	0.00	0.00
ATOM	5812	OD1	ASP	X	386	65.067	21.543	50.187	0.00	0.00
ATOM	5813	OD2	ASP	X	386	66.904	20.279	50.464	0.00	0.00
ATOM	5814	C	ASP	X	386	66.343	23.915	51.911	0.00	0.00
ATOM	5815	O	ASP	X	386	65.249	24.419	52.304	0.00	0.00
ATOM	5816	N	PRO	X	387	67.133	24.485	50.960	0.00	0.00
ATOM	5817	CD	PRO	X	387	68.492	23.958	50.593	0.00	0.00
ATOM	5818	HD2	PRO	X	387	68.324	22.959	50.193	0.00	0.00
ATOM	5819	HD3	PRO	X	387	69.181	24.157	51.414	0.00	0.00
ATOM	5820	CG	PRO	X	387	68.862	24.884	49.462	0.00	0.00

ATOM	5821	HG2	PRO	X	387	68.526	24.387	48.553	0.00	0.00
ATOM	5822	HG3	PRO	X	387	69.948	24.937	49.383	0.00	0.00
ATOM	5823	CB	PRO	X	387	68.141	26.209	49.593	0.00	0.00
ATOM	5824	HB2	PRO	X	387	67.821	26.533	48.603	0.00	0.00
ATOM	5825	HB3	PRO	X	387	68.677	26.995	50.126	0.00	0.00
ATOM	5826	CA	PRO	X	387	66.904	25.795	50.417	0.00	0.00
ATOM	5827	HA	PRO	X	387	66.848	26.559	51.192	0.00	0.00
ATOM	5828	C	PRO	X	387	65.590	25.872	49.642	0.00	0.00
ATOM	5829	O	PRO	X	387	64.961	26.921	49.653	0.00	0.00
ATOM	5830	N	ALA	X	388	65.227	24.760	49.018	0.00	0.00
ATOM	5831	H	ALA	X	388	65.818	23.945	49.107	0.00	0.00
ATOM	5832	CA	ALA	X	388	63.959	24.564	48.346	0.00	0.00
ATOM	5833	HA	ALA	X	388	63.793	25.329	47.587	0.00	0.00
ATOM	5834	CB	ALA	X	388	63.881	23.320	47.552	0.00	0.00
ATOM	5835	HB1	ALA	X	388	62.972	23.353	46.952	0.00	0.00
ATOM	5836	HB2	ALA	X	388	63.813	22.499	48.266	0.00	0.00
ATOM	5837	HB3	ALA	X	388	64.816	23.254	46.996	0.00	0.00
ATOM	5838	C	ALA	X	388	62.827	24.732	49.313	0.00	0.00
ATOM	5839	O	ALA	X	388	61.953	25.538	49.031	0.00	0.00
ATOM	5840	N	ARG	X	389	62.835	23.923	50.375	0.00	0.00
ATOM	5841	H	ARG	X	389	63.640	23.326	50.494	0.00	0.00
ATOM	5842	CA	ARG	X	389	61.871	23.980	51.466	0.00	0.00
ATOM	5843	HA	ARG	X	389	60.916	23.864	50.954	0.00	0.00
ATOM	5844	CB	ARG	X	389	62.058	22.802	52.457	0.00	0.00
ATOM	5845	HB2	ARG	X	389	63.101	22.883	52.762	0.00	0.00
ATOM	5846	HB3	ARG	X	389	61.421	23.032	53.311	0.00	0.00
ATOM	5847	CG	ARG	X	389	61.821	21.410	51.858	0.00	0.00
ATOM	5848	HG2	ARG	X	389	60.814	21.333	51.448	0.00	0.00
ATOM	5849	HG3	ARG	X	389	62.425	21.408	50.950	0.00	0.00
ATOM	5850	CD	ARG	X	389	62.185	20.184	52.716	0.00	0.00
ATOM	5851	HD2	ARG	X	389	63.269	20.165	52.609	0.00	0.00
ATOM	5852	HD3	ARG	X	389	62.024	20.317	53.785	0.00	0.00
ATOM	5853	NE	ARG	X	389	61.880	18.849	52.175	0.00	0.00
ATOM	5854	HE	ARG	X	389	62.206	18.773	51.222	0.00	0.00
ATOM	5855	CZ	ARG	X	389	61.227	17.824	52.703	0.00	0.00
ATOM	5856	NH1	ARG	X	389	60.718	17.902	53.883	0.00	0.00
ATOM	5857	HH11	ARG	X	389	60.757	18.797	54.351	0.00	0.00
ATOM	5858	HH12	ARG	X	389	60.273	17.081	54.268	0.00	0.00
ATOM	5859	NH2	ARG	X	389	61.203	16.703	52.045	0.00	0.00
ATOM	5860	HH21	ARG	X	389	61.694	16.808	51.169	0.00	0.00
ATOM	5861	HH22	ARG	X	389	60.832	15.851	52.442	0.00	0.00
ATOM	5862	C	ARG	X	389	61.887	25.341	52.242	0.00	0.00
ATOM	5863	O	ARG	X	389	60.843	25.935	52.468	0.00	0.00
ATOM	5864	N	LEU	X	390	63.066	26.036	52.300	0.00	0.00
ATOM	5865	H	LEU	X	390	63.871	25.427	52.258	0.00	0.00
ATOM	5866	CA	LEU	X	390	63.136	27.432	52.826	0.00	0.00
ATOM	5867	HA	LEU	X	390	62.426	27.497	53.651	0.00	0.00
ATOM	5868	CB	LEU	X	390	64.556	27.777	53.211	0.00	0.00
ATOM	5869	HB2	LEU	X	390	65.171	27.648	52.320	0.00	0.00
ATOM	5870	HB3	LEU	X	390	64.702	28.847	53.363	0.00	0.00
ATOM	5871	CG	LEU	X	390	65.011	27.037	54.548	0.00	0.00
ATOM	5872	HG	LEU	X	390	64.825	25.980	54.362	0.00	0.00
ATOM	5873	CD1	LEU	X	390	66.512	27.276	54.671	0.00	0.00
ATOM	5874	HD11	LEU	X	390	67.033	26.880	53.799	0.00	0.00
ATOM	5875	HD12	LEU	X	390	66.895	26.751	55.546	0.00	0.00
ATOM	5876	HD13	LEU	X	390	66.720	28.341	54.771	0.00	0.00
ATOM	5877	CD2	LEU	X	390	64.164	27.426	55.816	0.00	0.00
ATOM	5878	HD21	LEU	X	390	64.167	28.496	56.024	0.00	0.00
ATOM	5879	HD22	LEU	X	390	63.204	26.910	55.792	0.00	0.00
ATOM	5880	HD23	LEU	X	390	64.591	27.018	56.732	0.00	0.00
ATOM	5881	C	LEU	X	390	62.534	28.414	51.869	0.00	0.00
ATOM	5882	O	LEU	X	390	61.664	29.176	52.312	0.00	0.00
ATOM	5883	N	ARG	X	391	62.873	28.518	50.578	0.00	0.00
ATOM	5884	H	ARG	X	391	63.638	27.931	50.277	0.00	0.00
ATOM	5885	CA	ARG	X	391	62.185	29.364	49.553	0.00	0.00
ATOM	5886	HA	ARG	X	391	62.193	30.382	49.944	0.00	0.00
ATOM	5887	CB	ARG	X	391	62.911	29.470	48.253	0.00	0.00

ATOM	5888	HB2	ARG	X	391	62.597	30.412	47.801	0.00	0.00
ATOM	5889	HB3	ARG	X	391	63.981	29.530	48.449	0.00	0.00
ATOM	5890	CG	ARG	X	391	62.656	28.372	47.184	0.00	0.00
ATOM	5891	HG2	ARG	X	391	62.800	27.366	47.576	0.00	0.00
ATOM	5892	HG3	ARG	X	391	61.625	28.404	46.831	0.00	0.00
ATOM	5893	CD	ARG	X	391	63.494	28.542	45.869	0.00	0.00
ATOM	5894	HD2	ARG	X	391	63.197	27.786	45.142	0.00	0.00
ATOM	5895	HD3	ARG	X	391	63.228	29.535	45.508	0.00	0.00
ATOM	5896	NE	ARG	X	391	64.974	28.362	46.004	0.00	0.00
ATOM	5897	HE	ARG	X	391	65.522	29.171	46.258	0.00	0.00
ATOM	5898	CZ	ARG	X	391	65.671	27.234	45.874	0.00	0.00
ATOM	5899	NH1	ARG	X	391	65.099	26.062	45.722	0.00	0.00
ATOM	5900	HH11	ARG	X	391	64.140	25.981	45.415	0.00	0.00
ATOM	5901	HH12	ARG	X	391	65.672	25.247	45.888	0.00	0.00
ATOM	5902	NH2	ARG	X	391	67.005	27.302	45.886	0.00	0.00
ATOM	5903	HH21	ARG	X	391	67.489	28.188	45.860	0.00	0.00
ATOM	5904	HH22	ARG	X	391	67.606	26.493	45.817	0.00	0.00
ATOM	5905	C	ARG	X	391	60.685	29.072	49.374	0.00	0.00
ATOM	5906	O	ARG	X	391	59.796	29.926	49.371	0.00	0.00
ATOM	5907	N	GLU	X	392	60.418	27.747	49.388	0.00	0.00
ATOM	5908	H	GLU	X	392	61.200	27.108	49.395	0.00	0.00
ATOM	5909	CA	GLU	X	392	59.038	27.303	49.364	0.00	0.00
ATOM	5910	HA	GLU	X	392	58.476	27.766	48.553	0.00	0.00
ATOM	5911	CB	GLU	X	392	58.949	25.769	49.007	0.00	0.00
ATOM	5912	HB2	GLU	X	392	59.626	25.144	49.590	0.00	0.00
ATOM	5913	HB3	GLU	X	392	57.969	25.333	49.197	0.00	0.00
ATOM	5914	CG	GLU	X	392	59.105	25.568	47.520	0.00	0.00
ATOM	5915	HG2	GLU	X	392	58.229	25.969	47.010	0.00	0.00
ATOM	5916	HG3	GLU	X	392	60.002	26.035	47.113	0.00	0.00
ATOM	5917	CD	GLU	X	392	59.224	24.089	47.166	0.00	0.00
ATOM	5918	OE1	GLU	X	392	60.337	23.655	46.665	0.00	0.00
ATOM	5919	OE2	GLU	X	392	58.179	23.424	47.187	0.00	0.00
ATOM	5920	C	GLU	X	392	58.255	27.575	50.644	0.00	0.00
ATOM	5921	O	GLU	X	392	57.028	27.903	50.551	0.00	0.00
ATOM	5922	N	ALA	X	393	58.804	27.658	51.809	0.00	0.00
ATOM	5923	H	ALA	X	393	59.754	27.319	51.856	0.00	0.00
ATOM	5924	CA	ALA	X	393	58.153	28.213	52.991	0.00	0.00
ATOM	5925	HA	ALA	X	393	57.173	27.745	53.086	0.00	0.00
ATOM	5926	CB	ALA	X	393	59.098	27.885	54.187	0.00	0.00
ATOM	5927	HB1	ALA	X	393	60.131	28.230	54.232	0.00	0.00
ATOM	5928	HB2	ALA	X	393	59.074	26.816	54.398	0.00	0.00
ATOM	5929	HB3	ALA	X	393	58.728	28.479	55.023	0.00	0.00
ATOM	5930	C	ALA	X	393	57.908	29.701	52.786	0.00	0.00
ATOM	5931	O	ALA	X	393	56.881	30.264	53.248	0.00	0.00
ATOM	5932	N	LEU	X	394	58.894	30.442	52.262	0.00	0.00
ATOM	5933	H	LEU	X	394	59.783	30.005	52.063	0.00	0.00
ATOM	5934	CA	LEU	X	394	58.738	31.876	52.159	0.00	0.00
ATOM	5935	HA	LEU	X	394	58.419	32.317	53.103	0.00	0.00
ATOM	5936	CB	LEU	X	394	60.149	32.460	51.881	0.00	0.00
ATOM	5937	HB2	LEU	X	394	60.877	32.212	52.654	0.00	0.00
ATOM	5938	HB3	LEU	X	394	60.584	32.119	50.942	0.00	0.00
ATOM	5939	CG	LEU	X	394	60.186	33.993	51.931	0.00	0.00
ATOM	5940	HG	LEU	X	394	59.642	34.383	51.071	0.00	0.00
ATOM	5941	CD1	LEU	X	394	59.668	34.555	53.259	0.00	0.00
ATOM	5942	HD11	LEU	X	394	59.811	35.633	53.332	0.00	0.00
ATOM	5943	HD12	LEU	X	394	60.288	34.052	54.001	0.00	0.00
ATOM	5944	HD13	LEU	X	394	58.594	34.387	53.335	0.00	0.00
ATOM	5945	CD2	LEU	X	394	61.623	34.494	51.705	0.00	0.00
ATOM	5946	HD21	LEU	X	394	61.856	34.309	50.656	0.00	0.00
ATOM	5947	HD22	LEU	X	394	61.606	35.571	51.869	0.00	0.00
ATOM	5948	HD23	LEU	X	394	62.288	33.944	52.372	0.00	0.00
ATOM	5949	C	LEU	X	394	57.642	32.138	51.119	0.00	0.00
ATOM	5950	O	LEU	X	394	56.746	32.889	51.372	0.00	0.00
ATOM	5951	N	SER	X	395	57.577	31.415	49.969	0.00	0.00
ATOM	5952	H	SER	X	395	58.322	30.817	49.641	0.00	0.00
ATOM	5953	CA	SER	X	395	56.568	31.551	48.983	0.00	0.00
ATOM	5954	HA	SER	X	395	56.645	32.581	48.635	0.00	0.00

ATOM	5955	CB	SER	X	395	56.837	30.500	47.896	0.00	0.00
ATOM	5956	HB2	SER	X	395	57.130	29.562	48.368	0.00	0.00
ATOM	5957	HB3	SER	X	395	55.906	30.374	47.342	0.00	0.00
ATOM	5958	OG	SER	X	395	57.833	30.855	47.030	0.00	0.00
ATOM	5959	HG	SER	X	395	58.006	30.050	46.536	0.00	0.00
ATOM	5960	C	SER	X	395	55.130	31.265	49.522	0.00	0.00
ATOM	5961	O	SER	X	395	54.128	31.920	49.238	0.00	0.00
ATOM	5962	N	ASP	X	396	55.086	30.307	50.450	0.00	0.00
ATOM	5963	H	ASP	X	396	55.922	29.853	50.790	0.00	0.00
ATOM	5964	CA	ASP	X	396	53.846	29.994	51.162	0.00	0.00
ATOM	5965	HA	ASP	X	396	53.062	29.741	50.448	0.00	0.00
ATOM	5966	CB	ASP	X	396	54.049	28.684	51.928	0.00	0.00
ATOM	5967	HB2	ASP	X	396	54.371	27.870	51.278	0.00	0.00
ATOM	5968	HB3	ASP	X	396	54.894	28.843	52.598	0.00	0.00
ATOM	5969	CG	ASP	X	396	52.762	28.339	52.683	0.00	0.00
ATOM	5970	OD1	ASP	X	396	52.772	28.556	53.943	0.00	0.00
ATOM	5971	OD2	ASP	X	396	51.702	28.090	52.066	0.00	0.00
ATOM	5972	C	ASP	X	396	53.460	31.150	52.106	0.00	0.00
ATOM	5973	O	ASP	X	396	52.420	31.795	51.924	0.00	0.00
ATOM	5974	N	VAL	X	397	54.444	31.563	52.938	0.00	0.00
ATOM	5975	H	VAL	X	397	55.176	30.880	53.070	0.00	0.00
ATOM	5976	CA	VAL	X	397	54.121	32.476	54.017	0.00	0.00
ATOM	5977	HA	VAL	X	397	53.213	32.070	54.464	0.00	0.00
ATOM	5978	CB	VAL	X	397	55.093	32.397	55.165	0.00	0.00
ATOM	5979	HB	VAL	X	397	55.465	31.373	55.212	0.00	0.00
ATOM	5980	CG1	VAL	X	397	56.340	33.350	55.007	0.00	0.00
ATOM	5981	HG11	VAL	X	397	57.148	32.926	55.604	0.00	0.00
ATOM	5982	HG12	VAL	X	397	56.564	33.444	53.944	0.00	0.00
ATOM	5983	HG13	VAL	X	397	56.014	34.328	55.361	0.00	0.00
ATOM	5984	CG2	VAL	X	397	54.501	32.771	56.540	0.00	0.00
ATOM	5985	HG21	VAL	X	397	54.334	33.839	56.682	0.00	0.00
ATOM	5986	HG22	VAL	X	397	55.136	32.409	57.348	0.00	0.00
ATOM	5987	HG23	VAL	X	397	53.575	32.211	56.672	0.00	0.00
ATOM	5988	C	VAL	X	397	53.857	33.887	53.587	0.00	0.00
ATOM	5989	O	VAL	X	397	52.943	34.508	54.106	0.00	0.00
ATOM	5990	N	VAL	X	398	54.625	34.348	52.623	0.00	0.00
ATOM	5991	H	VAL	X	398	55.301	33.753	52.166	0.00	0.00
ATOM	5992	CA	VAL	X	398	54.321	35.653	51.927	0.00	0.00
ATOM	5993	HA	VAL	X	398	54.618	36.365	52.696	0.00	0.00
ATOM	5994	CB	VAL	X	398	55.277	35.828	50.709	0.00	0.00
ATOM	5995	HB	VAL	X	398	55.383	34.913	50.127	0.00	0.00
ATOM	5996	CG1	VAL	X	398	54.906	36.889	49.632	0.00	0.00
ATOM	5997	HG11	VAL	X	398	54.246	36.471	48.872	0.00	0.00
ATOM	5998	HG12	VAL	X	398	54.404	37.743	50.086	0.00	0.00
ATOM	5999	HG13	VAL	X	398	55.816	37.056	49.057	0.00	0.00
ATOM	6000	CG2	VAL	X	398	56.681	36.120	51.355	0.00	0.00
ATOM	6001	HG21	VAL	X	398	56.569	37.103	51.812	0.00	0.00
ATOM	6002	HG22	VAL	X	398	57.421	36.401	50.605	0.00	0.00
ATOM	6003	HG23	VAL	X	398	57.082	35.369	52.036	0.00	0.00
ATOM	6004	C	VAL	X	398	52.902	35.783	51.399	0.00	0.00
ATOM	6005	O	VAL	X	398	52.309	36.852	51.507	0.00	0.00
ATOM	6006	N	GLY	X	399	52.267	34.686	50.945	0.00	0.00
ATOM	6007	H	GLY	X	399	52.730	33.809	51.138	0.00	0.00
ATOM	6008	CA	GLY	X	399	50.839	34.671	50.518	0.00	0.00
ATOM	6009	HA2	GLY	X	399	50.450	35.599	50.100	0.00	0.00
ATOM	6010	HA3	GLY	X	399	50.688	33.931	49.732	0.00	0.00
ATOM	6011	C	GLY	X	399	49.795	34.335	51.596	0.00	0.00
ATOM	6012	O	GLY	X	399	48.678	34.901	51.575	0.00	0.00
ATOM	6013	N	ASP	X	400	50.097	33.440	52.492	0.00	0.00
ATOM	6014	H	ASP	X	400	51.000	33.011	52.346	0.00	0.00
ATOM	6015	CA	ASP	X	400	49.198	32.904	53.495	0.00	0.00
ATOM	6016	HA	ASP	X	400	48.440	32.310	52.985	0.00	0.00
ATOM	6017	CB	ASP	X	400	49.969	31.908	54.418	0.00	0.00
ATOM	6018	HB2	ASP	X	400	50.669	31.301	53.844	0.00	0.00
ATOM	6019	HB3	ASP	X	400	50.612	32.505	55.066	0.00	0.00
ATOM	6020	CG	ASP	X	400	49.010	31.003	55.306	0.00	0.00
ATOM	6021	OD1	ASP	X	400	47.923	30.718	54.821	0.00	0.00

ATOM	6022	OD2	ASP	X	400	49.461	30.420	56.321	0.00	0.00
ATOM	6023	C	ASP	X	400	48.460	34.044	54.240	0.00	0.00
ATOM	6024	O	ASP	X	400	47.291	34.332	53.914	0.00	0.00
ATOM	6025	N	HIE	X	401	49.206	34.789	55.098	0.00	0.00
ATOM	6026	H	HIE	X	401	50.137	34.491	55.352	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.721	35.959	55.783	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.886	35.566	56.364	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.728	36.371	56.869	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.150	36.643	57.752	0.00	0.00
ATOM	6031	HB3	HIE	X	401	50.375	35.535	57.135	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.633	37.398	56.400	0.00	0.00
ATOM	6033	ND1	HIE	X	401	50.403	38.781	56.157	0.00	0.00
ATOM	6034	CE1	HIE	X	401	51.569	39.181	55.682	0.00	0.00
ATOM	6035	HE1	HIE	X	401	51.747	40.195	55.356	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.392	38.179	55.434	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.338	38.264	55.092	0.00	0.00
ATOM	6038	CD2	HIE	X	401	51.840	37.078	55.942	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.348	36.130	56.038	0.00	0.00
ATOM	6040	C	HIE	X	401	48.239	37.149	54.961	0.00	0.00
ATOM	6041	O	HIE	X	401	47.184	37.770	55.355	0.00	0.00
ATOM	6042	N	ASN	X	402	48.898	37.380	53.804	0.00	0.00
ATOM	6043	H	ASN	X	402	49.809	36.958	53.695	0.00	0.00
ATOM	6044	CA	ASN	X	402	48.419	38.398	52.894	0.00	0.00
ATOM	6045	HA	ASN	X	402	48.276	39.318	53.460	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.596	38.657	51.964	0.00	0.00
ATOM	6047	HB2	ASN	X	402	50.141	37.731	51.777	0.00	0.00
ATOM	6048	HB3	ASN	X	402	49.221	38.880	50.965	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.526	39.746	52.514	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.099	40.772	52.928	0.00	0.00
ATOM	6051	ND2	ASN	X	402	51.803	39.517	52.403	0.00	0.00
ATOM	6052	HD21	ASN	X	402	52.368	40.260	52.788	0.00	0.00
ATOM	6053	HD22	ASN	X	402	52.068	38.613	52.039	0.00	0.00
ATOM	6054	C	ASN	X	402	47.088	38.133	52.076	0.00	0.00
ATOM	6055	O	ASN	X	402	46.364	39.115	51.903	0.00	0.00
ATOM	6056	N	VAL	X	403	46.883	36.871	51.600	0.00	0.00
ATOM	6057	H	VAL	X	403	47.606	36.181	51.744	0.00	0.00
ATOM	6058	CA	VAL	X	403	45.785	36.490	50.590	0.00	0.00
ATOM	6059	HA	VAL	X	403	45.006	37.246	50.693	0.00	0.00
ATOM	6060	CB	VAL	X	403	46.329	36.684	49.128	0.00	0.00
ATOM	6061	HB	VAL	X	403	46.917	37.601	49.186	0.00	0.00
ATOM	6062	CG1	VAL	X	403	47.285	35.610	48.650	0.00	0.00
ATOM	6063	HG11	VAL	X	403	47.605	35.876	47.642	0.00	0.00
ATOM	6064	HG12	VAL	X	403	48.128	35.464	49.326	0.00	0.00
ATOM	6065	HG13	VAL	X	403	46.675	34.714	48.537	0.00	0.00
ATOM	6066	CG2	VAL	X	403	45.143	36.953	48.151	0.00	0.00
ATOM	6067	HG21	VAL	X	403	44.470	36.095	48.177	0.00	0.00
ATOM	6068	HG22	VAL	X	403	45.632	37.032	47.180	0.00	0.00
ATOM	6069	HG23	VAL	X	403	44.648	37.872	48.463	0.00	0.00
ATOM	6070	C	VAL	X	403	45.054	35.151	50.752	0.00	0.00
ATOM	6071	O	VAL	X	403	43.843	35.187	50.693	0.00	0.00
ATOM	6072	N	VAL	X	404	45.780	34.107	51.016	0.00	0.00
ATOM	6073	H	VAL	X	404	46.769	34.016	50.830	0.00	0.00
ATOM	6074	CA	VAL	X	404	45.110	32.794	50.884	0.00	0.00
ATOM	6075	HA	VAL	X	404	44.586	32.872	49.932	0.00	0.00
ATOM	6076	CB	VAL	X	404	46.120	31.570	50.768	0.00	0.00
ATOM	6077	HB	VAL	X	404	46.508	31.274	51.743	0.00	0.00
ATOM	6078	CG1	VAL	X	404	45.449	30.414	50.187	0.00	0.00
ATOM	6079	HG11	VAL	X	404	46.203	29.859	49.629	0.00	0.00
ATOM	6080	HG12	VAL	X	404	45.005	29.742	50.921	0.00	0.00
ATOM	6081	HG13	VAL	X	404	44.673	30.731	49.491	0.00	0.00
ATOM	6082	CG2	VAL	X	404	47.272	31.999	49.856	0.00	0.00
ATOM	6083	HG21	VAL	X	404	47.767	32.934	50.118	0.00	0.00
ATOM	6084	HG22	VAL	X	404	46.862	32.003	48.846	0.00	0.00
ATOM	6085	HG23	VAL	X	404	48.050	31.236	49.891	0.00	0.00
ATOM	6086	C	VAL	X	404	44.112	32.538	52.032	0.00	0.00
ATOM	6087	O	VAL	X	404	42.919	32.314	51.823	0.00	0.00
ATOM	6088	N	CYX	X	405	44.502	32.749	53.277	0.00	0.00

ATOM	6089	H	CYX	X	405	45.436	33.079	53.473	0.00	0.00
ATOM	6090	CA	CYX	X	405	43.585	32.814	54.469	0.00	0.00
ATOM	6091	HA	CYX	X	405	42.953	31.928	54.420	0.00	0.00
ATOM	6092	CB	CYX	X	405	44.327	32.749	55.810	0.00	0.00
ATOM	6093	HB2	CYX	X	405	45.097	33.519	55.840	0.00	0.00
ATOM	6094	HB3	CYX	X	405	43.797	33.027	56.720	0.00	0.00
ATOM	6095	SG	CYX	X	405	44.989	31.169	56.145	0.00	0.00
ATOM	6096	C	CYX	X	405	42.515	33.906	54.457	0.00	0.00
ATOM	6097	O	CYX	X	405	41.341	33.586	54.740	0.00	0.00
ATOM	6098	N	PRO	X	406	42.852	35.190	54.121	0.00	0.00
ATOM	6099	CD	PRO	X	406	44.219	35.776	54.082	0.00	0.00
ATOM	6100	HD2	PRO	X	406	44.755	35.295	53.264	0.00	0.00
ATOM	6101	HD3	PRO	X	406	44.805	35.514	54.962	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.999	37.294	54.015	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.807	37.728	53.426	0.00	0.00
ATOM	6104	HG3	PRO	X	406	43.927	37.768	54.994	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.682	37.378	53.245	0.00	0.00
ATOM	6106	HB2	PRO	X	406	42.941	37.226	52.198	0.00	0.00
ATOM	6107	HB3	PRO	X	406	42.086	38.268	53.447	0.00	0.00
ATOM	6108	CA	PRO	X	406	41.880	36.195	53.795	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.402	36.585	54.694	0.00	0.00
ATOM	6110	C	PRO	X	406	40.820	35.720	52.785	0.00	0.00
ATOM	6111	O	PRO	X	406	39.679	35.851	53.178	0.00	0.00
ATOM	6112	N	VAL	X	407	41.098	35.098	51.639	0.00	0.00
ATOM	6113	H	VAL	X	407	42.049	34.915	51.350	0.00	0.00
ATOM	6114	CA	VAL	X	407	40.048	34.605	50.758	0.00	0.00
ATOM	6115	HA	VAL	X	407	39.424	35.460	50.498	0.00	0.00
ATOM	6116	CB	VAL	X	407	40.658	33.988	49.471	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.637	33.628	49.786	0.00	0.00
ATOM	6118	CG1	VAL	X	407	39.911	32.870	48.699	0.00	0.00
ATOM	6119	HG11	VAL	X	407	40.517	32.629	47.826	0.00	0.00
ATOM	6120	HG12	VAL	X	407	39.928	32.002	49.358	0.00	0.00
ATOM	6121	HG13	VAL	X	407	38.873	33.159	48.539	0.00	0.00
ATOM	6122	CG2	VAL	X	407	40.894	35.109	48.543	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.934	35.601	48.392	0.00	0.00
ATOM	6124	HG22	VAL	X	407	41.328	34.722	47.621	0.00	0.00
ATOM	6125	HG23	VAL	X	407	41.540	35.775	49.116	0.00	0.00
ATOM	6126	C	VAL	X	407	39.088	33.575	51.396	0.00	0.00
ATOM	6127	O	VAL	X	407	37.891	33.529	51.107	0.00	0.00
ATOM	6128	N	ALA	X	408	39.675	32.696	52.243	0.00	0.00
ATOM	6129	H	ALA	X	408	40.584	32.928	52.616	0.00	0.00
ATOM	6130	CA	ALA	X	408	38.964	31.602	52.863	0.00	0.00
ATOM	6131	HA	ALA	X	408	38.291	31.191	52.111	0.00	0.00
ATOM	6132	CB	ALA	X	408	39.846	30.449	53.364	0.00	0.00
ATOM	6133	HB1	ALA	X	408	40.640	30.159	52.676	0.00	0.00
ATOM	6134	HB2	ALA	X	408	39.230	29.579	53.593	0.00	0.00
ATOM	6135	HB3	ALA	X	408	40.409	30.647	54.276	0.00	0.00
ATOM	6136	C	ALA	X	408	38.001	32.115	53.967	0.00	0.00
ATOM	6137	O	ALA	X	408	36.991	31.474	54.126	0.00	0.00
ATOM	6138	N	GLN	X	409	38.330	33.208	54.710	0.00	0.00
ATOM	6139	H	GLN	X	409	39.258	33.572	54.550	0.00	0.00
ATOM	6140	CA	GLN	X	409	37.631	33.789	55.853	0.00	0.00
ATOM	6141	HA	GLN	X	409	37.132	33.059	56.490	0.00	0.00
ATOM	6142	CB	GLN	X	409	38.608	34.633	56.723	0.00	0.00
ATOM	6143	HB2	GLN	X	409	39.296	35.251	56.147	0.00	0.00
ATOM	6144	HB3	GLN	X	409	38.084	35.361	57.343	0.00	0.00
ATOM	6145	CG	GLN	X	409	39.488	33.672	57.537	0.00	0.00
ATOM	6146	HG2	GLN	X	409	38.762	33.272	58.244	0.00	0.00
ATOM	6147	HG3	GLN	X	409	39.888	32.912	56.865	0.00	0.00
ATOM	6148	CD	GLN	X	409	40.763	34.373	58.164	0.00	0.00
ATOM	6149	OE1	GLN	X	409	40.986	35.557	57.883	0.00	0.00
ATOM	6150	NE2	GLN	X	409	41.377	33.851	59.236	0.00	0.00
ATOM	6151	HE21	GLN	X	409	42.215	34.279	59.604	0.00	0.00
ATOM	6152	HE22	GLN	X	409	40.982	33.052	59.711	0.00	0.00
ATOM	6153	C	GLN	X	409	36.619	34.883	55.347	0.00	0.00
ATOM	6154	O	GLN	X	409	35.582	35.152	55.864	0.00	0.00
ATOM	6155	N	LEU	X	410	36.962	35.540	54.298	0.00	0.00

ATOM	6156	H	LEU	X	410	37.889	35.380	53.930	0.00	0.00
ATOM	6157	CA	LEU	X	410	35.935	36.183	53.438	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.455	37.002	53.974	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.605	36.766	52.228	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.158	37.593	52.673	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.301	35.999	51.889	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.800	37.373	50.982	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.314	36.655	50.321	0.00	0.00
ATOM	6164	CD1	LEU	X	410	34.743	38.292	51.586	0.00	0.00
ATOM	6165	HD11	LEU	X	410	34.175	38.779	50.794	0.00	0.00
ATOM	6166	HD12	LEU	X	410	35.205	39.035	52.236	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.156	37.586	52.173	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.792	38.256	50.171	0.00	0.00
ATOM	6169	HD21	LEU	X	410	37.172	39.101	50.745	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.636	37.622	49.901	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.277	38.678	49.308	0.00	0.00
ATOM	6172	C	LEU	X	410	34.940	35.097	52.970	0.00	0.00
ATOM	6173	O	LEU	X	410	33.823	35.155	53.397	0.00	0.00
ATOM	6174	N	ALA	X	411	35.398	34.048	52.233	0.00	0.00
ATOM	6175	H	ALA	X	411	36.303	34.111	51.789	0.00	0.00
ATOM	6176	CA	ALA	X	411	34.525	32.995	51.883	0.00	0.00
ATOM	6177	HA	ALA	X	411	33.824	33.406	51.157	0.00	0.00
ATOM	6178	CB	ALA	X	411	35.249	31.909	51.116	0.00	0.00
ATOM	6179	HB1	ALA	X	411	36.061	31.495	51.713	0.00	0.00
ATOM	6180	HB2	ALA	X	411	35.634	32.349	50.196	0.00	0.00
ATOM	6181	HB3	ALA	X	411	34.628	31.034	50.923	0.00	0.00
ATOM	6182	C	ALA	X	411	33.602	32.443	52.948	0.00	0.00
ATOM	6183	O	ALA	X	411	32.432	32.177	52.723	0.00	0.00
ATOM	6184	N	GLY	X	412	34.174	32.181	54.143	0.00	0.00
ATOM	6185	H	GLY	X	412	35.170	32.345	54.158	0.00	0.00
ATOM	6186	CA	GLY	X	412	33.366	31.490	55.157	0.00	0.00
ATOM	6187	HA2	GLY	X	412	32.753	30.660	54.804	0.00	0.00
ATOM	6188	HA3	GLY	X	412	34.063	31.102	55.900	0.00	0.00
ATOM	6189	C	GLY	X	412	32.406	32.388	55.882	0.00	0.00
ATOM	6190	O	GLY	X	412	31.297	31.930	56.183	0.00	0.00
ATOM	6191	N	ARG	X	413	32.791	33.695	56.148	0.00	0.00
ATOM	6192	H	ARG	X	413	33.716	33.941	55.825	0.00	0.00
ATOM	6193	CA	ARG	X	413	31.907	34.708	56.698	0.00	0.00
ATOM	6194	HA	ARG	X	413	31.307	34.202	57.454	0.00	0.00
ATOM	6195	CB	ARG	X	413	32.761	35.906	57.199	0.00	0.00
ATOM	6196	HB2	ARG	X	413	33.420	35.496	57.964	0.00	0.00
ATOM	6197	HB3	ARG	X	413	33.237	36.250	56.281	0.00	0.00
ATOM	6198	CG	ARG	X	413	31.883	36.993	57.887	0.00	0.00
ATOM	6199	HG2	ARG	X	413	32.664	37.651	58.265	0.00	0.00
ATOM	6200	HG3	ARG	X	413	31.263	37.566	57.197	0.00	0.00
ATOM	6201	CD	ARG	X	413	31.004	36.632	59.063	0.00	0.00
ATOM	6202	HD2	ARG	X	413	30.311	35.891	58.666	0.00	0.00
ATOM	6203	HD3	ARG	X	413	31.549	36.239	59.922	0.00	0.00
ATOM	6204	NE	ARG	X	413	30.334	37.868	59.400	0.00	0.00
ATOM	6205	HE	ARG	X	413	30.449	38.674	58.802	0.00	0.00
ATOM	6206	CZ	ARG	X	413	29.315	38.078	60.248	0.00	0.00
ATOM	6207	NH1	ARG	X	413	28.760	37.189	61.029	0.00	0.00
ATOM	6208	HH11	ARG	X	413	29.210	36.288	61.099	0.00	0.00
ATOM	6209	HH12	ARG	X	413	27.870	37.314	61.489	0.00	0.00
ATOM	6210	NH2	ARG	X	413	28.793	39.303	60.293	0.00	0.00
ATOM	6211	HH21	ARG	X	413	28.799	39.821	59.427	0.00	0.00
ATOM	6212	HH22	ARG	X	413	28.094	39.562	60.974	0.00	0.00
ATOM	6213	C	ARG	X	413	30.844	35.118	55.651	0.00	0.00
ATOM	6214	O	ARG	X	413	29.742	35.470	56.058	0.00	0.00
ATOM	6215	N	LEU	X	414	31.116	35.085	54.360	0.00	0.00
ATOM	6216	H	LEU	X	414	32.076	34.867	54.134	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.139	35.249	53.284	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.584	36.186	53.324	0.00	0.00
ATOM	6219	CB	LEU	X	414	30.841	35.301	51.867	0.00	0.00
ATOM	6220	HB2	LEU	X	414	31.669	34.595	51.806	0.00	0.00
ATOM	6221	HB3	LEU	X	414	30.092	35.008	51.131	0.00	0.00
ATOM	6222	CG	LEU	X	414	31.464	36.523	51.268	0.00	0.00

ATOM	6223	HG	LEU	X	414	32.215	36.937	51.940	0.00	0.00
ATOM	6224	CD1	LEU	X	414	32.021	36.357	49.857	0.00	0.00
ATOM	6225	HD11	LEU	X	414	32.307	37.317	49.428	0.00	0.00
ATOM	6226	HD12	LEU	X	414	31.325	35.803	49.227	0.00	0.00
ATOM	6227	HD13	LEU	X	414	32.922	35.744	49.896	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.487	37.688	51.127	0.00	0.00
ATOM	6229	HD21	LEU	X	414	30.254	38.082	52.117	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.991	38.547	50.684	0.00	0.00
ATOM	6231	HD23	LEU	X	414	29.573	37.535	50.554	0.00	0.00
ATOM	6232	C	LEU	X	414	29.032	34.178	53.394	0.00	0.00
ATOM	6233	O	LEU	X	414	27.855	34.605	53.488	0.00	0.00
ATOM	6234	N	ALA	X	415	29.368	32.873	53.365	0.00	0.00
ATOM	6235	H	ALA	X	415	30.335	32.674	53.153	0.00	0.00
ATOM	6236	CA	ALA	X	415	28.549	31.716	53.231	0.00	0.00
ATOM	6237	HA	ALA	X	415	27.840	31.817	52.410	0.00	0.00
ATOM	6238	CB	ALA	X	415	29.409	30.479	53.189	0.00	0.00
ATOM	6239	HB1	ALA	X	415	30.083	30.735	52.372	0.00	0.00
ATOM	6240	HB2	ALA	X	415	28.795	29.620	52.915	0.00	0.00
ATOM	6241	HB3	ALA	X	415	30.023	30.257	54.062	0.00	0.00
ATOM	6242	C	ALA	X	415	27.511	31.748	54.455	0.00	0.00
ATOM	6243	O	ALA	X	415	26.336	31.838	54.234	0.00	0.00
ATOM	6244	N	ALA	X	416	28.005	31.782	55.728	0.00	0.00
ATOM	6245	H	ALA	X	416	29.004	31.642	55.781	0.00	0.00
ATOM	6246	CA	ALA	X	416	27.268	31.917	57.003	0.00	0.00
ATOM	6247	HA	ALA	X	416	26.763	30.960	57.134	0.00	0.00
ATOM	6248	CB	ALA	X	416	28.289	31.862	58.174	0.00	0.00
ATOM	6249	HB1	ALA	X	416	27.754	32.003	59.112	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.998	32.677	58.023	0.00	0.00
ATOM	6251	HB3	ALA	X	416	28.827	30.916	58.118	0.00	0.00
ATOM	6252	C	ALA	X	416	26.452	33.154	57.246	0.00	0.00
ATOM	6253	O	ALA	X	416	25.549	33.116	58.119	0.00	0.00
ATOM	6254	N	GLN	X	417	26.550	34.132	56.345	0.00	0.00
ATOM	6255	H	GLN	X	417	27.223	33.964	55.611	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.669	35.330	56.260	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.061	35.245	57.161	0.00	0.00
ATOM	6258	CB	GLN	X	417	26.558	36.635	56.529	0.00	0.00
ATOM	6259	HB2	GLN	X	417	27.323	36.649	55.753	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.884	37.477	56.368	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.100	36.743	57.960	0.00	0.00
ATOM	6262	HG2	GLN	X	417	27.471	35.753	58.226	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.939	37.438	57.986	0.00	0.00
ATOM	6264	CD	GLN	X	417	26.013	37.192	58.962	0.00	0.00
ATOM	6265	OE1	GLN	X	417	25.431	36.412	59.709	0.00	0.00
ATOM	6266	NE2	GLN	X	417	25.702	38.509	59.089	0.00	0.00
ATOM	6267	HE21	GLN	X	417	25.105	38.738	59.871	0.00	0.00
ATOM	6268	HE22	GLN	X	417	26.204	39.239	58.604	0.00	0.00
ATOM	6269	C	GLN	X	417	24.829	35.460	55.023	0.00	0.00
ATOM	6270	O	GLN	X	417	24.548	36.563	54.530	0.00	0.00
ATOM	6271	N	GLY	X	418	24.617	34.308	54.341	0.00	0.00
ATOM	6272	H	GLY	X	418	25.125	33.483	54.626	0.00	0.00
ATOM	6273	CA	GLY	X	418	23.578	34.136	53.288	0.00	0.00
ATOM	6274	HA2	GLY	X	418	23.110	33.152	53.319	0.00	0.00
ATOM	6275	HA3	GLY	X	418	22.804	34.874	53.502	0.00	0.00
ATOM	6276	C	GLY	X	418	24.098	34.246	51.838	0.00	0.00
ATOM	6277	O	GLY	X	418	23.261	34.259	50.937	0.00	0.00
ATOM	6278	N	ALA	X	419	25.404	34.442	51.563	0.00	0.00
ATOM	6279	H	ALA	X	419	26.045	34.239	52.316	0.00	0.00
ATOM	6280	CA	ALA	X	419	25.994	34.428	50.176	0.00	0.00
ATOM	6281	HA	ALA	X	419	25.420	35.116	49.554	0.00	0.00
ATOM	6282	CB	ALA	X	419	27.521	34.889	50.230	0.00	0.00
ATOM	6283	HB1	ALA	X	419	28.151	34.662	49.370	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.922	34.525	51.176	0.00	0.00
ATOM	6285	HB3	ALA	X	419	27.460	35.947	50.482	0.00	0.00
ATOM	6286	C	ALA	X	419	25.957	33.057	49.526	0.00	0.00
ATOM	6287	O	ALA	X	419	25.969	32.025	50.202	0.00	0.00
ATOM	6288	N	ARG	X	420	26.015	33.005	48.232	0.00	0.00
ATOM	6289	H	ARG	X	420	25.803	33.842	47.709	0.00	0.00

ATOM	6290	CA	ARG	X	420	26.506	31.843	47.508	0.00	0.00
ATOM	6291	HA	ARG	X	420	26.530	30.957	48.142	0.00	0.00
ATOM	6292	CB	ARG	X	420	25.438	31.562	46.413	0.00	0.00
ATOM	6293	HB2	ARG	X	420	24.448	31.630	46.862	0.00	0.00
ATOM	6294	HB3	ARG	X	420	25.541	32.464	45.808	0.00	0.00
ATOM	6295	CG	ARG	X	420	25.721	30.325	45.675	0.00	0.00
ATOM	6296	HG2	ARG	X	420	25.188	30.259	44.726	0.00	0.00
ATOM	6297	HG3	ARG	X	420	26.789	30.236	45.472	0.00	0.00
ATOM	6298	CD	ARG	X	420	25.308	29.143	46.585	0.00	0.00
ATOM	6299	HD2	ARG	X	420	26.061	28.871	47.324	0.00	0.00
ATOM	6300	HD3	ARG	X	420	24.452	29.453	47.185	0.00	0.00
ATOM	6301	NE	ARG	X	420	24.968	28.007	45.767	0.00	0.00
ATOM	6302	HE	ARG	X	420	25.017	28.192	44.776	0.00	0.00
ATOM	6303	CZ	ARG	X	420	24.454	26.803	46.146	0.00	0.00
ATOM	6304	NH1	ARG	X	420	24.379	26.522	47.448	0.00	0.00
ATOM	6305	HH11	ARG	X	420	24.615	27.169	48.187	0.00	0.00
ATOM	6306	HH12	ARG	X	420	23.962	25.631	47.678	0.00	0.00
ATOM	6307	NH2	ARG	X	420	24.114	25.878	45.277	0.00	0.00
ATOM	6308	HH21	ARG	X	420	24.176	26.000	44.276	0.00	0.00
ATOM	6309	HH22	ARG	X	420	23.658	25.079	45.692	0.00	0.00
ATOM	6310	C	ARG	X	420	27.917	32.132	47.048	0.00	0.00
ATOM	6311	O	ARG	X	420	28.128	32.900	46.155	0.00	0.00
ATOM	6312	N	VAL	X	421	28.851	31.332	47.563	0.00	0.00
ATOM	6313	H	VAL	X	421	28.477	30.745	48.296	0.00	0.00
ATOM	6314	CA	VAL	X	421	30.266	31.320	47.383	0.00	0.00
ATOM	6315	HA	VAL	X	421	30.559	32.226	46.853	0.00	0.00
ATOM	6316	CB	VAL	X	421	31.012	31.418	48.676	0.00	0.00
ATOM	6317	HB	VAL	X	421	30.819	30.473	49.185	0.00	0.00
ATOM	6318	CG1	VAL	X	421	32.540	31.612	48.321	0.00	0.00
ATOM	6319	HG11	VAL	X	421	33.063	30.756	47.895	0.00	0.00
ATOM	6320	HG12	VAL	X	421	32.649	32.428	47.607	0.00	0.00
ATOM	6321	HG13	VAL	X	421	33.233	31.888	49.116	0.00	0.00
ATOM	6322	CG2	VAL	X	421	30.544	32.607	49.523	0.00	0.00
ATOM	6323	HG21	VAL	X	421	30.303	33.376	48.789	0.00	0.00
ATOM	6324	HG22	VAL	X	421	31.422	32.871	50.113	0.00	0.00
ATOM	6325	HG23	VAL	X	421	29.690	32.238	50.091	0.00	0.00
ATOM	6326	C	VAL	X	421	30.694	30.136	46.503	0.00	0.00
ATOM	6327	O	VAL	X	421	30.249	29.030	46.775	0.00	0.00
ATOM	6328	N	TYR	X	422	31.666	30.269	45.645	0.00	0.00
ATOM	6329	H	TYR	X	422	32.079	31.187	45.568	0.00	0.00
ATOM	6330	CA	TYR	X	422	32.368	29.102	44.938	0.00	0.00
ATOM	6331	HA	TYR	X	422	32.263	28.185	45.517	0.00	0.00
ATOM	6332	CB	TYR	X	422	31.934	29.049	43.500	0.00	0.00
ATOM	6333	HB2	TYR	X	422	32.005	29.996	42.963	0.00	0.00
ATOM	6334	HB3	TYR	X	422	32.614	28.432	42.912	0.00	0.00
ATOM	6335	CG	TYR	X	422	30.526	28.525	43.256	0.00	0.00
ATOM	6336	CD1	TYR	X	422	30.379	27.125	43.176	0.00	0.00
ATOM	6337	HD1	TYR	X	422	31.231	26.470	43.282	0.00	0.00
ATOM	6338	CE1	TYR	X	422	29.085	26.561	43.068	0.00	0.00
ATOM	6339	HE1	TYR	X	422	28.979	25.488	43.004	0.00	0.00
ATOM	6340	CZ	TYR	X	422	27.960	27.417	42.993	0.00	0.00
ATOM	6341	OH	TYR	X	422	26.733	26.870	42.873	0.00	0.00
ATOM	6342	HH	TYR	X	422	26.659	25.914	42.831	0.00	0.00
ATOM	6343	CE2	TYR	X	422	28.106	28.850	43.085	0.00	0.00
ATOM	6344	HE2	TYR	X	422	27.259	29.479	42.854	0.00	0.00
ATOM	6345	CD2	TYR	X	422	29.377	29.426	43.118	0.00	0.00
ATOM	6346	HD2	TYR	X	422	29.523	30.495	43.150	0.00	0.00
ATOM	6347	C	TYR	X	422	33.892	29.429	44.989	0.00	0.00
ATOM	6348	O	TYR	X	422	34.296	30.595	44.913	0.00	0.00
ATOM	6349	N	ALA	X	423	34.809	28.393	45.148	0.00	0.00
ATOM	6350	H	ALA	X	423	34.371	27.510	45.369	0.00	0.00
ATOM	6351	CA	ALA	X	423	36.229	28.368	45.440	0.00	0.00
ATOM	6352	HA	ALA	X	423	36.718	29.299	45.150	0.00	0.00
ATOM	6353	CB	ALA	X	423	36.492	28.225	46.964	0.00	0.00
ATOM	6354	HB1	ALA	X	423	35.907	28.958	47.519	0.00	0.00
ATOM	6355	HB2	ALA	X	423	37.496	28.509	47.279	0.00	0.00
ATOM	6356	HB3	ALA	X	423	36.219	27.208	47.246	0.00	0.00

ATOM	6357	C	ALA	X	423	36.998	27.312	44.627	0.00	0.00
ATOM	6358	O	ALA	X	423	36.519	26.170	44.382	0.00	0.00
ATOM	6359	N	TYR	X	424	38.303	27.575	44.343	0.00	0.00
ATOM	6360	H	TYR	X	424	38.612	28.515	44.549	0.00	0.00
ATOM	6361	CA	TYR	X	424	39.251	26.702	43.688	0.00	0.00
ATOM	6362	HA	TYR	X	424	38.986	25.698	44.020	0.00	0.00
ATOM	6363	CB	TYR	X	424	39.009	26.899	42.122	0.00	0.00
ATOM	6364	HB2	TYR	X	424	39.616	26.134	41.637	0.00	0.00
ATOM	6365	HB3	TYR	X	424	37.983	26.635	41.864	0.00	0.00
ATOM	6366	CG	TYR	X	424	39.494	28.232	41.595	0.00	0.00
ATOM	6367	CD1	TYR	X	424	40.859	28.449	41.113	0.00	0.00
ATOM	6368	HD1	TYR	X	424	41.664	27.731	41.056	0.00	0.00
ATOM	6369	CE1	TYR	X	424	41.279	29.724	40.808	0.00	0.00
ATOM	6370	HE1	TYR	X	424	42.304	29.959	40.562	0.00	0.00
ATOM	6371	CZ	TYR	X	424	40.302	30.772	40.680	0.00	0.00
ATOM	6372	OH	TYR	X	424	40.658	32.028	40.377	0.00	0.00
ATOM	6373	HH	TYR	X	424	41.551	32.113	40.034	0.00	0.00
ATOM	6374	CE2	TYR	X	424	39.009	30.622	41.299	0.00	0.00
ATOM	6375	HE2	TYR	X	424	38.391	31.502	41.401	0.00	0.00
ATOM	6376	CD2	TYR	X	424	38.628	29.332	41.759	0.00	0.00
ATOM	6377	HD2	TYR	X	424	37.656	29.237	42.219	0.00	0.00
ATOM	6378	C	TYR	X	424	40.765	27.035	43.998	0.00	0.00
ATOM	6379	O	TYR	X	424	41.020	28.132	44.511	0.00	0.00
ATOM	6380	N	VAL	X	425	41.633	26.017	43.909	0.00	0.00
ATOM	6381	H	VAL	X	425	41.223	25.237	43.415	0.00	0.00
ATOM	6382	CA	VAL	X	425	43.069	26.234	43.664	0.00	0.00
ATOM	6383	HA	VAL	X	425	43.393	27.273	43.713	0.00	0.00
ATOM	6384	CB	VAL	X	425	44.043	25.703	44.794	0.00	0.00
ATOM	6385	HB	VAL	X	425	44.009	24.614	44.843	0.00	0.00
ATOM	6386	CG1	VAL	X	425	45.501	26.032	44.519	0.00	0.00
ATOM	6387	HG11	VAL	X	425	45.741	27.056	44.808	0.00	0.00
ATOM	6388	HG12	VAL	X	425	46.128	25.464	45.206	0.00	0.00
ATOM	6389	HG13	VAL	X	425	45.854	25.834	43.507	0.00	0.00
ATOM	6390	CG2	VAL	X	425	43.620	26.186	46.118	0.00	0.00
ATOM	6391	HG21	VAL	X	425	43.709	27.238	46.388	0.00	0.00
ATOM	6392	HG22	VAL	X	425	44.251	25.745	46.890	0.00	0.00
ATOM	6393	HG23	VAL	X	425	42.625	25.787	46.312	0.00	0.00
ATOM	6394	C	VAL	X	425	43.498	25.672	42.280	0.00	0.00
ATOM	6395	O	VAL	X	425	43.046	24.575	41.853	0.00	0.00
ATOM	6396	N	PHE	X	426	44.186	26.506	41.514	0.00	0.00
ATOM	6397	H	PHE	X	426	44.499	27.408	41.843	0.00	0.00
ATOM	6398	CA	PHE	X	426	44.675	26.084	40.164	0.00	0.00
ATOM	6399	HA	PHE	X	426	44.183	25.169	39.832	0.00	0.00
ATOM	6400	CB	PHE	X	426	44.206	27.250	39.178	0.00	0.00
ATOM	6401	HB2	PHE	X	426	43.123	27.256	39.059	0.00	0.00
ATOM	6402	HB3	PHE	X	426	44.499	28.181	39.662	0.00	0.00
ATOM	6403	CG	PHE	X	426	44.876	27.202	37.773	0.00	0.00
ATOM	6404	CD1	PHE	X	426	44.157	26.837	36.564	0.00	0.00
ATOM	6405	HD1	PHE	X	426	43.090	26.686	36.500	0.00	0.00
ATOM	6406	CE1	PHE	X	426	44.754	26.992	35.319	0.00	0.00
ATOM	6407	HE1	PHE	X	426	44.150	26.775	34.451	0.00	0.00
ATOM	6408	CZ	PHE	X	426	46.074	27.501	35.210	0.00	0.00
ATOM	6409	HZ	PHE	X	426	46.474	27.600	34.211	0.00	0.00
ATOM	6410	CE2	PHE	X	426	46.810	27.978	36.344	0.00	0.00
ATOM	6411	HE2	PHE	X	426	47.818	28.365	36.305	0.00	0.00
ATOM	6412	CD2	PHE	X	426	46.178	27.764	37.636	0.00	0.00
ATOM	6413	HD2	PHE	X	426	46.695	28.162	38.496	0.00	0.00
ATOM	6414	C	PHE	X	426	46.198	25.902	40.162	0.00	0.00
ATOM	6415	O	PHE	X	426	46.970	26.675	40.788	0.00	0.00
ATOM	6416	N	GLU	X	427	46.580	24.705	39.615	0.00	0.00
ATOM	6417	H	GLU	X	427	45.778	24.258	39.193	0.00	0.00
ATOM	6418	CA	GLU	X	427	47.780	23.907	39.882	0.00	0.00
ATOM	6419	HA	GLU	X	427	48.233	24.422	40.729	0.00	0.00
ATOM	6420	CB	GLU	X	427	47.463	22.476	40.310	0.00	0.00
ATOM	6421	HB2	GLU	X	427	47.159	21.886	39.446	0.00	0.00
ATOM	6422	HB3	GLU	X	427	48.404	22.128	40.736	0.00	0.00
ATOM	6423	CG	GLU	X	427	46.401	22.290	41.419	0.00	0.00

ATOM	6424	HG2	GLU	X	427	46.498	23.055	42.190	0.00	0.00
ATOM	6425	HG3	GLU	X	427	45.386	22.340	41.026	0.00	0.00
ATOM	6426	CD	GLU	X	427	46.441	20.894	41.983	0.00	0.00
ATOM	6427	OE1	GLU	X	427	47.127	20.635	42.997	0.00	0.00
ATOM	6428	OE2	GLU	X	427	45.683	20.042	41.537	0.00	0.00
ATOM	6429	C	GLU	X	427	48.699	23.950	38.653	0.00	0.00
ATOM	6430	O	GLU	X	427	49.705	23.294	38.680	0.00	0.00
ATOM	6431	N	HIE	X	428	48.247	24.486	37.518	0.00	0.00
ATOM	6432	H	HIE	X	428	47.401	25.030	37.433	0.00	0.00
ATOM	6433	CA	HIE	X	428	48.849	24.187	36.230	0.00	0.00
ATOM	6434	HA	HIE	X	428	49.311	23.214	36.396	0.00	0.00
ATOM	6435	CB	HIE	X	428	47.820	23.871	35.164	0.00	0.00
ATOM	6436	HB2	HIE	X	428	47.363	22.949	35.524	0.00	0.00
ATOM	6437	HB3	HIE	X	428	47.058	24.649	35.109	0.00	0.00
ATOM	6438	CG	HIE	X	428	48.406	23.657	33.755	0.00	0.00
ATOM	6439	ND1	HIE	X	428	48.866	22.474	33.240	0.00	0.00
ATOM	6440	CE1	HIE	X	428	49.431	22.835	32.062	0.00	0.00
ATOM	6441	HE1	HIE	X	428	49.826	22.122	31.353	0.00	0.00
ATOM	6442	NE2	HIE	X	428	49.384	24.181	31.876	0.00	0.00
ATOM	6443	HE2	HIE	X	428	49.831	24.715	31.145	0.00	0.00
ATOM	6444	CD2	HIE	X	428	48.715	24.697	32.981	0.00	0.00
ATOM	6445	HD2	HIE	X	428	48.702	25.751	33.218	0.00	0.00
ATOM	6446	C	HIE	X	428	49.798	25.265	35.833	0.00	0.00
ATOM	6447	O	HIE	X	428	49.394	26.372	35.844	0.00	0.00
ATOM	6448	N	ARG	X	429	50.991	24.911	35.389	0.00	0.00
ATOM	6449	H	ARG	X	429	51.271	23.941	35.375	0.00	0.00
ATOM	6450	CA	ARG	X	429	51.959	25.869	34.864	0.00	0.00
ATOM	6451	HA	ARG	X	429	51.737	26.881	35.203	0.00	0.00
ATOM	6452	CB	ARG	X	429	53.326	25.470	35.434	0.00	0.00
ATOM	6453	HB2	ARG	X	429	53.341	25.573	36.519	0.00	0.00
ATOM	6454	HB3	ARG	X	429	53.357	24.412	35.176	0.00	0.00
ATOM	6455	CG	ARG	X	429	54.683	26.225	34.953	0.00	0.00
ATOM	6456	HG2	ARG	X	429	54.922	25.867	33.951	0.00	0.00
ATOM	6457	HG3	ARG	X	429	54.441	27.279	34.816	0.00	0.00
ATOM	6458	CD	ARG	X	429	55.882	26.117	35.939	0.00	0.00
ATOM	6459	HD2	ARG	X	429	55.715	26.560	36.920	0.00	0.00
ATOM	6460	HD3	ARG	X	429	56.174	25.092	36.168	0.00	0.00
ATOM	6461	NE	ARG	X	429	57.088	26.853	35.423	0.00	0.00
ATOM	6462	HE	ARG	X	429	57.182	27.779	35.813	0.00	0.00
ATOM	6463	CZ	ARG	X	429	57.958	26.466	34.463	0.00	0.00
ATOM	6464	NH1	ARG	X	429	57.995	25.233	33.932	0.00	0.00
ATOM	6465	HH11	ARG	X	429	57.365	24.506	34.239	0.00	0.00
ATOM	6466	HH12	ARG	X	429	58.535	25.123	33.085	0.00	0.00
ATOM	6467	NH2	ARG	X	429	58.806	27.344	34.016	0.00	0.00
ATOM	6468	HH21	ARG	X	429	58.706	28.320	34.258	0.00	0.00
ATOM	6469	HH22	ARG	X	429	59.450	27.003	33.317	0.00	0.00
ATOM	6470	C	ARG	X	429	52.023	25.827	33.330	0.00	0.00
ATOM	6471	O	ARG	X	429	52.125	24.717	32.743	0.00	0.00
ATOM	6472	N	ALA	X	430	51.727	26.972	32.764	0.00	0.00
ATOM	6473	H	ALA	X	430	51.426	27.691	33.406	0.00	0.00
ATOM	6474	CA	ALA	X	430	51.645	27.126	31.232	0.00	0.00
ATOM	6475	HA	ALA	X	430	50.858	26.423	30.958	0.00	0.00
ATOM	6476	CB	ALA	X	430	51.133	28.574	30.883	0.00	0.00
ATOM	6477	HB1	ALA	X	430	51.162	28.834	29.825	0.00	0.00
ATOM	6478	HB2	ALA	X	430	51.754	29.294	31.416	0.00	0.00
ATOM	6479	HB3	ALA	X	430	50.100	28.561	31.231	0.00	0.00
ATOM	6480	C	ALA	X	430	53.011	26.814	30.590	0.00	0.00
ATOM	6481	O	ALA	X	430	54.039	27.290	31.089	0.00	0.00
ATOM	6482	N	SER	X	431	53.029	26.031	29.503	0.00	0.00
ATOM	6483	H	SER	X	431	52.143	25.679	29.171	0.00	0.00
ATOM	6484	CA	SER	X	431	54.187	25.724	28.638	0.00	0.00
ATOM	6485	HA	SER	X	431	54.853	25.100	29.234	0.00	0.00
ATOM	6486	CB	SER	X	431	53.790	24.809	27.453	0.00	0.00
ATOM	6487	HB2	SER	X	431	54.692	24.650	26.862	0.00	0.00
ATOM	6488	HB3	SER	X	431	53.567	23.836	27.890	0.00	0.00
ATOM	6489	OG	SER	X	431	52.719	25.442	26.674	0.00	0.00
ATOM	6490	HG	SER	X	431	51.844	25.166	26.956	0.00	0.00

ATOM	6491	C	SER	X	431	54.855	27.017	28.132	0.00	0.00
ATOM	6492	O	SER	X	431	56.074	27.065	28.010	0.00	0.00
ATOM	6493	N	THR	X	432	54.033	28.079	27.936	0.00	0.00
ATOM	6494	H	THR	X	432	53.034	27.941	27.991	0.00	0.00
ATOM	6495	CA	THR	X	432	54.532	29.331	27.589	0.00	0.00
ATOM	6496	HA	THR	X	432	55.293	29.170	26.826	0.00	0.00
ATOM	6497	CB	THR	X	432	53.391	30.142	26.931	0.00	0.00
ATOM	6498	HB	THR	X	432	53.675	31.192	26.846	0.00	0.00
ATOM	6499	CG2	THR	X	432	52.942	29.610	25.591	0.00	0.00
ATOM	6500	HG21	THR	X	432	51.970	30.002	25.290	0.00	0.00
ATOM	6501	HG22	THR	X	432	52.971	28.526	25.706	0.00	0.00
ATOM	6502	HG23	THR	X	432	53.714	29.755	24.835	0.00	0.00
ATOM	6503	OG1	THR	X	432	52.243	30.176	27.675	0.00	0.00
ATOM	6504	HG1	THR	X	432	52.360	30.645	28.505	0.00	0.00
ATOM	6505	C	THR	X	432	55.154	30.118	28.737	0.00	0.00
ATOM	6506	O	THR	X	432	55.670	31.156	28.451	0.00	0.00
ATOM	6507	N	LEU	X	433	55.000	29.766	29.984	0.00	0.00
ATOM	6508	H	LEU	X	433	54.568	28.867	30.146	0.00	0.00
ATOM	6509	CA	LEU	X	433	55.382	30.615	31.159	0.00	0.00
ATOM	6510	HA	LEU	X	433	54.839	31.523	30.893	0.00	0.00
ATOM	6511	CB	LEU	X	433	54.787	30.098	32.474	0.00	0.00
ATOM	6512	HB2	LEU	X	433	53.772	29.762	32.263	0.00	0.00
ATOM	6513	HB3	LEU	X	433	55.313	29.162	32.667	0.00	0.00
ATOM	6514	CG	LEU	X	433	54.776	30.939	33.825	0.00	0.00
ATOM	6515	HG	LEU	X	433	55.669	31.564	33.818	0.00	0.00
ATOM	6516	CD1	LEU	X	433	53.627	31.962	33.873	0.00	0.00
ATOM	6517	HD11	LEU	X	433	53.611	32.699	33.070	0.00	0.00
ATOM	6518	HD12	LEU	X	433	53.595	32.505	34.818	0.00	0.00
ATOM	6519	HD13	LEU	X	433	52.731	31.346	33.955	0.00	0.00
ATOM	6520	CD2	LEU	X	433	54.858	30.054	35.023	0.00	0.00
ATOM	6521	HD21	LEU	X	433	53.861	29.657	35.215	0.00	0.00
ATOM	6522	HD22	LEU	X	433	55.474	29.163	34.910	0.00	0.00
ATOM	6523	HD23	LEU	X	433	55.024	30.665	35.910	0.00	0.00
ATOM	6524	C	LEU	X	433	56.875	30.839	31.356	0.00	0.00
ATOM	6525	O	LEU	X	433	57.703	29.981	31.337	0.00	0.00
ATOM	6526	N	SER	X	434	57.145	32.116	31.416	0.00	0.00
ATOM	6527	H	SER	X	434	56.326	32.699	31.314	0.00	0.00
ATOM	6528	CA	SER	X	434	58.435	32.787	31.729	0.00	0.00
ATOM	6529	HA	SER	X	434	59.208	32.406	31.061	0.00	0.00
ATOM	6530	CB	SER	X	434	58.169	34.272	31.366	0.00	0.00
ATOM	6531	HB2	SER	X	434	59.146	34.717	31.551	0.00	0.00
ATOM	6532	HB3	SER	X	434	57.862	34.443	30.335	0.00	0.00
ATOM	6533	OG	SER	X	434	57.263	34.811	32.391	0.00	0.00
ATOM	6534	HG	SER	X	434	56.342	34.666	32.164	0.00	0.00
ATOM	6535	C	SER	X	434	59.139	32.701	33.110	0.00	0.00
ATOM	6536	O	SER	X	434	60.315	32.375	33.272	0.00	0.00
ATOM	6537	N	TRP	X	435	58.337	32.730	34.184	0.00	0.00
ATOM	6538	H	TRP	X	435	57.371	33.025	34.165	0.00	0.00
ATOM	6539	CA	TRP	X	435	58.812	32.365	35.485	0.00	0.00
ATOM	6540	HA	TRP	X	435	59.637	33.030	35.742	0.00	0.00
ATOM	6541	CB	TRP	X	435	57.676	32.639	36.409	0.00	0.00
ATOM	6542	HB2	TRP	X	435	56.798	32.049	36.145	0.00	0.00
ATOM	6543	HB3	TRP	X	435	57.901	32.242	37.399	0.00	0.00
ATOM	6544	CG	TRP	X	435	57.221	34.135	36.455	0.00	0.00
ATOM	6545	CD1	TRP	X	435	56.047	34.654	36.042	0.00	0.00
ATOM	6546	HD1	TRP	X	435	55.275	34.035	35.609	0.00	0.00
ATOM	6547	NE1	TRP	X	435	56.021	36.029	36.106	0.00	0.00
ATOM	6548	HE1	TRP	X	435	55.367	36.639	35.637	0.00	0.00
ATOM	6549	CE2	TRP	X	435	57.220	36.518	36.602	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	57.741	37.866	36.728	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	57.072	38.686	36.515	0.00	0.00
ATOM	6552	CH2	TRP	X	435	59.058	37.983	37.203	0.00	0.00
ATOM	6553	HH2	TRP	X	435	59.499	38.961	37.327	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	59.795	36.823	37.532	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	60.828	36.907	37.838	0.00	0.00
ATOM	6556	CE3	TRP	X	435	59.282	35.528	37.281	0.00	0.00
ATOM	6557	HE3	TRP	X	435	59.954	34.691	37.402	0.00	0.00

ATOM	6558	CD2	TRP	X	435	57.979	35.325	36.811	0.00	0.00
ATOM	6559	C	TRP	X	435	59.319	30.914	35.712	0.00	0.00
ATOM	6560	O	TRP	X	435	58.716	29.945	35.210	0.00	0.00
ATOM	6561	N	PRO	X	436	60.387	30.699	36.451	0.00	0.00
ATOM	6562	CD	PRO	X	436	61.253	31.593	37.086	0.00	0.00
ATOM	6563	HD2	PRO	X	436	60.692	32.330	37.660	0.00	0.00
ATOM	6564	HD3	PRO	X	436	61.986	32.146	36.500	0.00	0.00
ATOM	6565	CG	PRO	X	436	62.127	30.837	38.083	0.00	0.00
ATOM	6566	HG2	PRO	X	436	61.538	30.532	38.948	0.00	0.00
ATOM	6567	HG3	PRO	X	436	63.019	31.431	38.281	0.00	0.00
ATOM	6568	CB	PRO	X	436	62.291	29.557	37.267	0.00	0.00
ATOM	6569	HB2	PRO	X	436	62.479	28.689	37.899	0.00	0.00
ATOM	6570	HB3	PRO	X	436	63.145	29.646	36.595	0.00	0.00
ATOM	6571	CA	PRO	X	436	61.013	29.358	36.470	0.00	0.00
ATOM	6572	HA	PRO	X	436	61.114	28.960	35.460	0.00	0.00
ATOM	6573	C	PRO	X	436	60.151	28.356	37.278	0.00	0.00
ATOM	6574	O	PRO	X	436	59.242	28.687	38.048	0.00	0.00
ATOM	6575	N	LEU	X	437	60.551	27.097	37.208	0.00	0.00
ATOM	6576	H	LEU	X	437	61.475	26.973	36.820	0.00	0.00
ATOM	6577	CA	LEU	X	437	59.845	25.995	37.800	0.00	0.00
ATOM	6578	HA	LEU	X	437	58.801	25.962	37.488	0.00	0.00
ATOM	6579	CB	LEU	X	437	60.517	24.785	37.266	0.00	0.00
ATOM	6580	HB2	LEU	X	437	60.464	24.666	36.184	0.00	0.00
ATOM	6581	HB3	LEU	X	437	61.599	24.918	37.264	0.00	0.00
ATOM	6582	CG	LEU	X	437	60.067	23.425	37.770	0.00	0.00
ATOM	6583	HG	LEU	X	437	60.236	23.358	38.844	0.00	0.00
ATOM	6584	CD1	LEU	X	437	58.540	23.181	37.511	0.00	0.00
ATOM	6585	HD11	LEU	X	437	57.944	24.056	37.771	0.00	0.00
ATOM	6586	HD12	LEU	X	437	58.294	22.293	38.093	0.00	0.00
ATOM	6587	HD13	LEU	X	437	58.365	23.042	36.444	0.00	0.00
ATOM	6588	CD2	LEU	X	437	60.963	22.306	37.295	0.00	0.00
ATOM	6589	HD21	LEU	X	437	61.966	22.660	37.533	0.00	0.00
ATOM	6590	HD22	LEU	X	437	60.860	21.353	37.815	0.00	0.00
ATOM	6591	HD23	LEU	X	437	60.906	22.228	36.210	0.00	0.00
ATOM	6592	C	LEU	X	437	59.800	25.983	39.301	0.00	0.00
ATOM	6593	O	LEU	X	437	58.802	25.517	39.863	0.00	0.00
ATOM	6594	N	TRP	X	438	60.719	26.676	39.995	0.00	0.00
ATOM	6595	H	TRP	X	438	61.430	27.134	39.443	0.00	0.00
ATOM	6596	CA	TRP	X	438	60.757	26.782	41.442	0.00	0.00
ATOM	6597	HA	TRP	X	438	60.649	25.841	41.982	0.00	0.00
ATOM	6598	CB	TRP	X	438	62.121	27.299	42.004	0.00	0.00
ATOM	6599	HB2	TRP	X	438	62.113	27.193	43.088	0.00	0.00
ATOM	6600	HB3	TRP	X	438	62.967	26.665	41.737	0.00	0.00
ATOM	6601	CG	TRP	X	438	62.494	28.726	41.665	0.00	0.00
ATOM	6602	CD1	TRP	X	438	63.423	29.077	40.773	0.00	0.00
ATOM	6603	HD1	TRP	X	438	63.928	28.370	40.132	0.00	0.00
ATOM	6604	NE1	TRP	X	438	63.583	30.461	40.796	0.00	0.00
ATOM	6605	HE1	TRP	X	438	64.127	30.905	40.070	0.00	0.00
ATOM	6606	CE2	TRP	X	438	62.984	30.940	41.999	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	62.857	32.272	42.429	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	63.396	33.003	41.845	0.00	0.00
ATOM	6609	CH2	TRP	X	438	61.991	32.550	43.511	0.00	0.00
ATOM	6610	HH2	TRP	X	438	61.832	33.556	43.870	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	61.413	31.465	44.215	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	60.814	31.601	45.103	0.00	0.00
ATOM	6613	CE3	TRP	X	438	61.495	30.188	43.630	0.00	0.00
ATOM	6614	HE3	TRP	X	438	60.980	29.345	44.065	0.00	0.00
ATOM	6615	CD2	TRP	X	438	62.187	29.912	42.477	0.00	0.00
ATOM	6616	C	TRP	X	438	59.680	27.623	42.023	0.00	0.00
ATOM	6617	O	TRP	X	438	59.438	27.519	43.213	0.00	0.00
ATOM	6618	N	MET	X	439	58.997	28.530	41.236	0.00	0.00
ATOM	6619	H	MET	X	439	59.242	28.636	40.262	0.00	0.00
ATOM	6620	CA	MET	X	439	57.852	29.294	41.718	0.00	0.00
ATOM	6621	HA	MET	X	439	58.174	29.588	42.717	0.00	0.00
ATOM	6622	CB	MET	X	439	57.633	30.543	40.866	0.00	0.00
ATOM	6623	HB2	MET	X	439	57.688	30.385	39.789	0.00	0.00
ATOM	6624	HB3	MET	X	439	56.657	30.852	41.242	0.00	0.00

ATOM	6625	CG	MET	X	439	58.652	31.652	41.085	0.00	0.00
ATOM	6626	HG2	MET	X	439	58.593	31.936	42.136	0.00	0.00
ATOM	6627	HG3	MET	X	439	59.564	31.072	40.944	0.00	0.00
ATOM	6628	SD	MET	X	439	58.606	33.155	40.102	0.00	0.00
ATOM	6629	CE	MET	X	439	60.159	33.825	40.730	0.00	0.00
ATOM	6630	HE1	MET	X	439	60.865	33.027	40.500	0.00	0.00
ATOM	6631	HE2	MET	X	439	60.552	34.754	40.318	0.00	0.00
ATOM	6632	HE3	MET	X	439	60.183	33.922	41.815	0.00	0.00
ATOM	6633	C	MET	X	439	56.613	28.416	41.680	0.00	0.00
ATOM	6634	O	MET	X	439	55.584	28.795	42.281	0.00	0.00
ATOM	6635	N	GLY	X	440	56.623	27.284	40.966	0.00	0.00
ATOM	6636	H	GLY	X	440	57.443	27.017	40.441	0.00	0.00
ATOM	6637	CA	GLY	X	440	55.411	26.513	40.571	0.00	0.00
ATOM	6638	HA2	GLY	X	440	55.840	25.743	39.931	0.00	0.00
ATOM	6639	HA3	GLY	X	440	55.095	26.059	41.511	0.00	0.00
ATOM	6640	C	GLY	X	440	54.426	27.421	39.795	0.00	0.00
ATOM	6641	O	GLY	X	440	54.622	27.679	38.653	0.00	0.00
ATOM	6642	N	VAL	X	441	53.336	27.880	40.332	0.00	0.00
ATOM	6643	H	VAL	X	441	53.084	27.633	41.278	0.00	0.00
ATOM	6644	CA	VAL	X	441	52.295	28.753	39.745	0.00	0.00
ATOM	6645	HA	VAL	X	441	52.526	28.973	38.703	0.00	0.00
ATOM	6646	CB	VAL	X	441	50.930	28.093	39.673	0.00	0.00
ATOM	6647	HB	VAL	X	441	50.556	28.060	40.696	0.00	0.00
ATOM	6648	CG1	VAL	X	441	50.030	28.920	38.815	0.00	0.00
ATOM	6649	HG11	VAL	X	441	49.024	28.512	38.916	0.00	0.00
ATOM	6650	HG12	VAL	X	441	49.968	29.958	39.139	0.00	0.00
ATOM	6651	HG13	VAL	X	441	50.317	28.838	37.766	0.00	0.00
ATOM	6652	CG2	VAL	X	441	50.865	26.643	39.119	0.00	0.00
ATOM	6653	HG21	VAL	X	441	49.827	26.476	38.830	0.00	0.00
ATOM	6654	HG22	VAL	X	441	51.236	25.846	39.764	0.00	0.00
ATOM	6655	HG23	VAL	X	441	51.483	26.756	38.228	0.00	0.00
ATOM	6656	C	VAL	X	441	52.305	30.067	40.491	0.00	0.00
ATOM	6657	O	VAL	X	441	51.560	30.227	41.496	0.00	0.00
ATOM	6658	N	PRO	X	442	53.032	31.103	40.055	0.00	0.00
ATOM	6659	CD	PRO	X	442	53.774	31.101	38.856	0.00	0.00
ATOM	6660	HD2	PRO	X	442	53.141	31.087	37.968	0.00	0.00
ATOM	6661	HD3	PRO	X	442	54.410	30.221	38.760	0.00	0.00
ATOM	6662	CG	PRO	X	442	54.653	32.349	38.868	0.00	0.00
ATOM	6663	HG2	PRO	X	442	54.537	32.838	37.901	0.00	0.00
ATOM	6664	HG3	PRO	X	442	55.721	32.187	39.018	0.00	0.00
ATOM	6665	CB	PRO	X	442	54.213	33.189	40.045	0.00	0.00
ATOM	6666	HB2	PRO	X	442	53.958	34.197	39.718	0.00	0.00
ATOM	6667	HB3	PRO	X	442	55.078	33.180	40.707	0.00	0.00
ATOM	6668	CA	PRO	X	442	53.089	32.369	40.719	0.00	0.00
ATOM	6669	HA	PRO	X	442	53.367	32.099	41.738	0.00	0.00
ATOM	6670	C	PRO	X	442	51.733	33.058	40.642	0.00	0.00
ATOM	6671	O	PRO	X	442	50.894	32.738	39.773	0.00	0.00
ATOM	6672	N	HIP	X	443	51.492	33.889	41.575	0.00	0.00
ATOM	6673	H	HIP	X	443	52.187	33.966	42.304	0.00	0.00
ATOM	6674	CA	HIP	X	443	50.257	34.688	41.714	0.00	0.00
ATOM	6675	HA	HIP	X	443	49.535	34.097	42.277	0.00	0.00
ATOM	6676	CB	HIP	X	443	50.692	35.902	42.554	0.00	0.00
ATOM	6677	HB2	HIP	X	443	50.801	35.661	43.611	0.00	0.00
ATOM	6678	HB3	HIP	X	443	51.600	36.347	42.147	0.00	0.00
ATOM	6679	CG	HIP	X	443	49.651	36.944	42.622	0.00	0.00
ATOM	6680	ND1	HIP	X	443	48.568	37.195	43.439	0.00	0.00
ATOM	6681	HD1	HIP	X	443	48.199	36.487	44.059	0.00	0.00
ATOM	6682	CE1	HIP	X	443	48.009	38.378	43.200	0.00	0.00
ATOM	6683	HE1	HIP	X	443	47.174	38.808	43.734	0.00	0.00
ATOM	6684	NE2	HIP	X	443	48.593	38.817	42.075	0.00	0.00
ATOM	6685	HE2	HIP	X	443	48.451	39.715	41.636	0.00	0.00
ATOM	6686	CD2	HIP	X	443	49.669	37.966	41.816	0.00	0.00
ATOM	6687	HD2	HIP	X	443	50.327	38.033	40.962	0.00	0.00
ATOM	6688	C	HIP	X	443	49.458	35.088	40.395	0.00	0.00
ATOM	6689	O	HIP	X	443	49.958	35.901	39.607	0.00	0.00
ATOM	6690	N	GLY	X	444	48.141	34.737	40.268	0.00	0.00
ATOM	6691	H	GLY	X	444	47.634	34.325	41.038	0.00	0.00

ATOM	6692	CA	GLY	X	444	47.233	35.246	39.271	0.00	0.00
ATOM	6693	HA2	GLY	X	444	46.319	34.679	39.454	0.00	0.00
ATOM	6694	HA3	GLY	X	444	47.054	36.315	39.381	0.00	0.00
ATOM	6695	C	GLY	X	444	47.662	35.014	37.811	0.00	0.00
ATOM	6696	O	GLY	X	444	47.568	35.908	36.958	0.00	0.00
ATOM	6697	N	TYR	X	445	48.336	33.853	37.508	0.00	0.00
ATOM	6698	H	TYR	X	445	48.633	33.220	38.237	0.00	0.00
ATOM	6699	CA	TYR	X	445	48.634	33.447	36.155	0.00	0.00
ATOM	6700	HA	TYR	X	445	48.678	34.377	35.588	0.00	0.00
ATOM	6701	CB	TYR	X	445	50.065	32.859	36.214	0.00	0.00
ATOM	6702	HB2	TYR	X	445	50.329	32.613	37.243	0.00	0.00
ATOM	6703	HB3	TYR	X	445	50.091	32.009	35.533	0.00	0.00
ATOM	6704	CG	TYR	X	445	50.988	33.835	35.655	0.00	0.00
ATOM	6705	CD1	TYR	X	445	51.008	34.054	34.255	0.00	0.00
ATOM	6706	HD1	TYR	X	445	50.320	33.489	33.643	0.00	0.00
ATOM	6707	CE1	TYR	X	445	51.881	35.048	33.751	0.00	0.00
ATOM	6708	HE1	TYR	X	445	51.997	35.283	32.703	0.00	0.00
ATOM	6709	CZ	TYR	X	445	52.697	35.779	34.602	0.00	0.00
ATOM	6710	OH	TYR	X	445	53.613	36.593	34.033	0.00	0.00
ATOM	6711	HH	TYR	X	445	53.631	36.577	33.073	0.00	0.00
ATOM	6712	CE2	TYR	X	445	52.655	35.641	36.023	0.00	0.00
ATOM	6713	HE2	TYR	X	445	53.102	36.318	36.735	0.00	0.00
ATOM	6714	CD2	TYR	X	445	51.762	34.646	36.536	0.00	0.00
ATOM	6715	HD2	TYR	X	445	51.613	34.478	37.593	0.00	0.00
ATOM	6716	C	TYR	X	445	47.581	32.561	35.524	0.00	0.00
ATOM	6717	O	TYR	X	445	47.665	32.388	34.263	0.00	0.00
ATOM	6718	N	GLU	X	446	46.553	32.037	36.229	0.00	0.00
ATOM	6719	H	GLU	X	446	46.512	32.149	37.232	0.00	0.00
ATOM	6720	CA	GLU	X	446	45.475	31.246	35.658	0.00	0.00
ATOM	6721	HA	GLU	X	446	45.928	30.457	35.057	0.00	0.00
ATOM	6722	CB	GLU	X	446	44.547	30.557	36.805	0.00	0.00
ATOM	6723	HB2	GLU	X	446	44.111	29.668	36.347	0.00	0.00
ATOM	6724	HB3	GLU	X	446	45.237	30.256	37.593	0.00	0.00
ATOM	6725	CG	GLU	X	446	43.375	31.470	37.157	0.00	0.00
ATOM	6726	HG2	GLU	X	446	42.989	32.107	36.361	0.00	0.00
ATOM	6727	HG3	GLU	X	446	42.523	30.862	37.463	0.00	0.00
ATOM	6728	CD	GLU	X	446	43.772	32.461	38.262	0.00	0.00
ATOM	6729	OE1	GLU	X	446	44.892	32.930	38.213	0.00	0.00
ATOM	6730	OE2	GLU	X	446	42.879	32.830	39.042	0.00	0.00
ATOM	6731	C	GLU	X	446	44.661	31.973	34.608	0.00	0.00
ATOM	6732	O	GLU	X	446	44.074	31.323	33.767	0.00	0.00
ATOM	6733	N	ILE	X	447	44.622	33.286	34.638	0.00	0.00
ATOM	6734	H	ILE	X	447	45.063	33.761	35.412	0.00	0.00
ATOM	6735	CA	ILE	X	447	43.634	34.081	33.892	0.00	0.00
ATOM	6736	HA	ILE	X	447	42.684	33.683	34.250	0.00	0.00
ATOM	6737	CB	ILE	X	447	43.633	35.678	34.066	0.00	0.00
ATOM	6738	HB	ILE	X	447	42.954	36.129	33.342	0.00	0.00
ATOM	6739	CG2	ILE	X	447	43.172	36.017	35.522	0.00	0.00
ATOM	6740	HG21	ILE	X	447	43.913	35.714	36.261	0.00	0.00
ATOM	6741	HG22	ILE	X	447	42.221	35.521	35.715	0.00	0.00
ATOM	6742	HG23	ILE	X	447	43.107	37.099	35.639	0.00	0.00
ATOM	6743	CG1	ILE	X	447	45.089	36.254	33.822	0.00	0.00
ATOM	6744	HG12	ILE	X	447	45.655	36.040	34.729	0.00	0.00
ATOM	6745	HG13	ILE	X	447	45.546	35.678	33.017	0.00	0.00
ATOM	6746	CD1	ILE	X	447	45.085	37.740	33.613	0.00	0.00
ATOM	6747	HD11	ILE	X	447	44.859	38.250	34.550	0.00	0.00
ATOM	6748	HD12	ILE	X	447	44.394	38.033	32.823	0.00	0.00
ATOM	6749	HD13	ILE	X	447	46.074	38.077	33.301	0.00	0.00
ATOM	6750	C	ILE	X	447	43.624	33.824	32.405	0.00	0.00
ATOM	6751	O	ILE	X	447	42.596	33.895	31.808	0.00	0.00
ATOM	6752	N	GLU	X	448	44.787	33.457	31.887	0.00	0.00
ATOM	6753	H	GLU	X	448	45.437	33.128	32.586	0.00	0.00
ATOM	6754	CA	GLU	X	448	44.994	33.119	30.447	0.00	0.00
ATOM	6755	HA	GLU	X	448	44.772	34.007	29.855	0.00	0.00
ATOM	6756	CB	GLU	X	448	46.451	32.709	30.218	0.00	0.00
ATOM	6757	HB2	GLU	X	448	46.634	31.999	31.025	0.00	0.00
ATOM	6758	HB3	GLU	X	448	46.481	32.107	29.310	0.00	0.00

ATOM	6759	CG	GLU	X	448	47.448	33.859	30.289	0.00	0.00
ATOM	6760	HG2	GLU	X	448	47.209	34.650	29.579	0.00	0.00
ATOM	6761	HG3	GLU	X	448	47.473	34.331	31.272	0.00	0.00
ATOM	6762	CD	GLU	X	448	48.843	33.463	29.866	0.00	0.00
ATOM	6763	OE1	GLU	X	448	49.549	34.313	29.259	0.00	0.00
ATOM	6764	OE2	GLU	X	448	49.266	32.301	30.149	0.00	0.00
ATOM	6765	C	GLU	X	448	44.084	31.968	29.984	0.00	0.00
ATOM	6766	O	GLU	X	448	43.733	31.971	28.803	0.00	0.00
ATOM	6767	N	PHE	X	449	43.751	30.981	30.890	0.00	0.00
ATOM	6768	H	PHE	X	449	44.105	30.968	31.836	0.00	0.00
ATOM	6769	CA	PHE	X	449	42.887	29.842	30.657	0.00	0.00
ATOM	6770	HA	PHE	X	449	42.914	29.611	29.592	0.00	0.00
ATOM	6771	CB	PHE	X	449	43.451	28.586	31.421	0.00	0.00
ATOM	6772	HB2	PHE	X	449	43.403	28.735	32.499	0.00	0.00
ATOM	6773	HB3	PHE	X	449	42.770	27.763	31.204	0.00	0.00
ATOM	6774	CG	PHE	X	449	44.844	28.152	31.061	0.00	0.00
ATOM	6775	CD1	PHE	X	449	45.921	28.924	31.540	0.00	0.00
ATOM	6776	HD1	PHE	X	449	45.797	29.853	32.078	0.00	0.00
ATOM	6777	CE1	PHE	X	449	47.235	28.447	31.326	0.00	0.00
ATOM	6778	HE1	PHE	X	449	48.063	29.013	31.728	0.00	0.00
ATOM	6779	CZ	PHE	X	449	47.437	27.271	30.627	0.00	0.00
ATOM	6780	HZ	PHE	X	449	48.431	26.866	30.505	0.00	0.00
ATOM	6781	CE2	PHE	X	449	46.342	26.496	30.242	0.00	0.00
ATOM	6782	HE2	PHE	X	449	46.539	25.515	29.835	0.00	0.00
ATOM	6783	CD2	PHE	X	449	45.037	26.910	30.506	0.00	0.00
ATOM	6784	HD2	PHE	X	449	44.193	26.339	30.146	0.00	0.00
ATOM	6785	C	PHE	X	449	41.376	30.149	30.967	0.00	0.00
ATOM	6786	O	PHE	X	449	40.543	29.373	30.555	0.00	0.00
ATOM	6787	N	ILE	X	450	41.082	31.248	31.576	0.00	0.00
ATOM	6788	H	ILE	X	450	41.836	31.840	31.893	0.00	0.00
ATOM	6789	CA	ILE	X	450	39.686	31.789	31.731	0.00	0.00
ATOM	6790	HA	ILE	X	450	38.958	30.978	31.745	0.00	0.00
ATOM	6791	CB	ILE	X	450	39.479	32.610	33.040	0.00	0.00
ATOM	6792	HB	ILE	X	450	40.011	33.536	32.825	0.00	0.00
ATOM	6793	CG2	ILE	X	450	38.095	33.099	33.351	0.00	0.00
ATOM	6794	HG21	ILE	X	450	37.849	33.893	32.646	0.00	0.00
ATOM	6795	HG22	ILE	X	450	37.965	33.636	34.291	0.00	0.00
ATOM	6796	HG23	ILE	X	450	37.408	32.253	33.339	0.00	0.00
ATOM	6797	CG1	ILE	X	450	40.083	31.978	34.356	0.00	0.00
ATOM	6798	HG12	ILE	X	450	41.119	32.292	34.484	0.00	0.00
ATOM	6799	HG13	ILE	X	450	39.577	32.376	35.235	0.00	0.00
ATOM	6800	CD1	ILE	X	450	39.998	30.481	34.597	0.00	0.00
ATOM	6801	HD11	ILE	X	450	38.939	30.220	34.581	0.00	0.00
ATOM	6802	HD12	ILE	X	450	40.363	30.273	35.603	0.00	0.00
ATOM	6803	HD13	ILE	X	450	40.534	29.984	33.788	0.00	0.00
ATOM	6804	C	ILE	X	450	39.224	32.711	30.585	0.00	0.00
ATOM	6805	O	ILE	X	450	38.067	32.506	30.097	0.00	0.00
ATOM	6806	N	PHE	X	451	40.190	33.477	30.043	0.00	0.00
ATOM	6807	H	PHE	X	451	41.076	33.585	30.516	0.00	0.00
ATOM	6808	CA	PHE	X	451	40.005	34.199	28.751	0.00	0.00
ATOM	6809	HA	PHE	X	451	38.986	34.582	28.698	0.00	0.00
ATOM	6810	CB	PHE	X	451	40.924	35.448	28.791	0.00	0.00
ATOM	6811	HB2	PHE	X	451	41.846	35.233	29.330	0.00	0.00
ATOM	6812	HB3	PHE	X	451	41.141	35.741	27.764	0.00	0.00
ATOM	6813	CG	PHE	X	451	40.265	36.636	29.602	0.00	0.00
ATOM	6814	CD1	PHE	X	451	40.097	36.613	30.986	0.00	0.00
ATOM	6815	HD1	PHE	X	451	40.467	35.777	31.560	0.00	0.00
ATOM	6816	CE1	PHE	X	451	39.645	37.737	31.658	0.00	0.00
ATOM	6817	HE1	PHE	X	451	39.362	37.709	32.700	0.00	0.00
ATOM	6818	CZ	PHE	X	451	39.093	38.822	30.909	0.00	0.00
ATOM	6819	HZ	PHE	X	451	38.565	39.574	31.476	0.00	0.00
ATOM	6820	CE2	PHE	X	451	39.116	38.894	29.569	0.00	0.00
ATOM	6821	HE2	PHE	X	451	38.717	39.750	29.046	0.00	0.00
ATOM	6822	CD2	PHE	X	451	39.802	37.808	28.885	0.00	0.00
ATOM	6823	HD2	PHE	X	451	39.881	37.910	27.813	0.00	0.00
ATOM	6824	C	PHE	X	451	40.176	33.222	27.543	0.00	0.00
ATOM	6825	O	PHE	X	451	39.740	33.517	26.495	0.00	0.00

ATOM	6826	N	GLY	X	452	40.916	32.103	27.686	0.00	0.00
ATOM	6827	H	GLY	X	452	41.206	31.849	28.620	0.00	0.00
ATOM	6828	CA	GLY	X	452	41.165	31.153	26.614	0.00	0.00
ATOM	6829	HA2	GLY	X	452	41.380	30.157	27.002	0.00	0.00
ATOM	6830	HA3	GLY	X	452	40.257	30.996	26.032	0.00	0.00
ATOM	6831	C	GLY	X	452	42.187	31.594	25.571	0.00	0.00
ATOM	6832	O	GLY	X	452	42.128	31.319	24.358	0.00	0.00
ATOM	6833	N	ILE	X	453	43.161	32.275	26.101	0.00	0.00
ATOM	6834	H	ILE	X	453	43.111	32.397	27.102	0.00	0.00
ATOM	6835	CA	ILE	X	453	44.353	32.763	25.416	0.00	0.00
ATOM	6836	HA	ILE	X	453	43.909	33.268	24.558	0.00	0.00
ATOM	6837	CB	ILE	X	453	45.284	33.708	26.259	0.00	0.00
ATOM	6838	HB	ILE	X	453	45.701	33.129	27.084	0.00	0.00
ATOM	6839	CG2	ILE	X	453	46.524	34.216	25.459	0.00	0.00
ATOM	6840	HG21	ILE	X	453	47.205	33.479	25.033	0.00	0.00
ATOM	6841	HG22	ILE	X	453	47.254	34.758	26.061	0.00	0.00
ATOM	6842	HG23	ILE	X	453	46.122	34.821	24.646	0.00	0.00
ATOM	6843	CG1	ILE	X	453	44.494	34.926	26.878	0.00	0.00
ATOM	6844	HG12	ILE	X	453	43.661	34.601	27.500	0.00	0.00
ATOM	6845	HG13	ILE	X	453	45.186	35.529	27.466	0.00	0.00
ATOM	6846	CD1	ILE	X	453	43.737	35.928	25.974	0.00	0.00
ATOM	6847	HD11	ILE	X	453	42.802	35.478	25.640	0.00	0.00
ATOM	6848	HD12	ILE	X	453	44.409	36.064	25.127	0.00	0.00
ATOM	6849	HD13	ILE	X	453	43.546	36.801	26.599	0.00	0.00
ATOM	6850	C	ILE	X	453	45.102	31.613	24.746	0.00	0.00
ATOM	6851	O	ILE	X	453	45.633	31.789	23.673	0.00	0.00
ATOM	6852	N	PRO	X	454	45.175	30.379	25.311	0.00	0.00
ATOM	6853	CD	PRO	X	454	45.022	30.088	26.709	0.00	0.00
ATOM	6854	HD2	PRO	X	454	43.979	30.233	26.990	0.00	0.00
ATOM	6855	HD3	PRO	X	454	45.644	30.782	27.275	0.00	0.00
ATOM	6856	CG	PRO	X	454	45.378	28.583	26.895	0.00	0.00
ATOM	6857	HG2	PRO	X	454	44.741	28.099	27.635	0.00	0.00
ATOM	6858	HG3	PRO	X	454	46.400	28.431	27.241	0.00	0.00
ATOM	6859	CB	PRO	X	454	45.127	27.968	25.524	0.00	0.00
ATOM	6860	HB2	PRO	X	454	44.049	27.807	25.513	0.00	0.00
ATOM	6861	HB3	PRO	X	454	45.648	27.029	25.335	0.00	0.00
ATOM	6862	CA	PRO	X	454	45.621	29.186	24.602	0.00	0.00
ATOM	6863	HA	PRO	X	454	46.709	29.248	24.591	0.00	0.00
ATOM	6864	C	PRO	X	454	45.272	28.969	23.141	0.00	0.00
ATOM	6865	O	PRO	X	454	45.964	28.344	22.318	0.00	0.00
ATOM	6866	N	LEU	X	455	44.003	29.440	22.729	0.00	0.00
ATOM	6867	H	LEU	X	455	43.435	30.081	23.264	0.00	0.00
ATOM	6868	CA	LEU	X	455	43.400	29.097	21.396	0.00	0.00
ATOM	6869	HA	LEU	X	455	43.486	28.025	21.219	0.00	0.00
ATOM	6870	CB	LEU	X	455	41.926	29.479	21.496	0.00	0.00
ATOM	6871	HB2	LEU	X	455	41.750	30.450	21.960	0.00	0.00
ATOM	6872	HB3	LEU	X	455	41.365	29.350	20.571	0.00	0.00
ATOM	6873	CG	LEU	X	455	41.117	28.452	22.360	0.00	0.00
ATOM	6874	HG	LEU	X	455	41.534	28.378	23.365	0.00	0.00
ATOM	6875	CD1	LEU	X	455	39.610	28.923	22.459	0.00	0.00
ATOM	6876	HD11	LEU	X	455	39.200	28.837	21.452	0.00	0.00
ATOM	6877	HD12	LEU	X	455	39.579	29.965	22.776	0.00	0.00
ATOM	6878	HD13	LEU	X	455	39.051	28.270	23.130	0.00	0.00
ATOM	6879	CD2	LEU	X	455	41.130	27.019	21.732	0.00	0.00
ATOM	6880	HD21	LEU	X	455	42.069	26.553	21.433	0.00	0.00
ATOM	6881	HD22	LEU	X	455	40.731	26.268	22.413	0.00	0.00
ATOM	6882	HD23	LEU	X	455	40.564	26.942	20.804	0.00	0.00
ATOM	6883	C	LEU	X	455	44.056	29.872	20.200	0.00	0.00
ATOM	6884	O	LEU	X	455	43.716	29.640	19.050	0.00	0.00
ATOM	6885	N	ASP	X	456	45.029	30.770	20.422	0.00	0.00
ATOM	6886	H	ASP	X	456	45.266	30.964	21.385	0.00	0.00
ATOM	6887	CA	ASP	X	456	45.650	31.570	19.356	0.00	0.00
ATOM	6888	HA	ASP	X	456	44.803	31.898	18.754	0.00	0.00
ATOM	6889	CB	ASP	X	456	46.199	32.892	20.084	0.00	0.00
ATOM	6890	HB2	ASP	X	456	45.403	33.375	20.649	0.00	0.00
ATOM	6891	HB3	ASP	X	456	47.065	32.594	20.675	0.00	0.00
ATOM	6892	CG	ASP	X	456	46.732	33.870	19.081	0.00	0.00

ATOM	6893	OD1	ASP	X	456	45.914	34.839	18.703	0.00	0.00
ATOM	6894	OD2	ASP	X	456	47.921	33.680	18.664	0.00	0.00
ATOM	6895	C	ASP	X	456	46.760	30.869	18.518	0.00	0.00
ATOM	6896	O	ASP	X	456	47.682	30.298	19.076	0.00	0.00
ATOM	6897	N	PRO	X	457	46.632	30.998	17.172	0.00	0.00
ATOM	6898	CD	PRO	X	457	45.632	31.761	16.444	0.00	0.00
ATOM	6899	HD2	PRO	X	457	45.506	32.721	16.945	0.00	0.00
ATOM	6900	HD3	PRO	X	457	44.645	31.304	16.516	0.00	0.00
ATOM	6901	CG	PRO	X	457	46.084	31.883	14.995	0.00	0.00
ATOM	6902	HG2	PRO	X	457	46.404	32.881	14.697	0.00	0.00
ATOM	6903	HG3	PRO	X	457	45.213	31.570	14.418	0.00	0.00
ATOM	6904	CB	PRO	X	457	47.085	30.826	14.814	0.00	0.00
ATOM	6905	HB2	PRO	X	457	47.879	31.192	14.162	0.00	0.00
ATOM	6906	HB3	PRO	X	457	46.615	30.000	14.282	0.00	0.00
ATOM	6907	CA	PRO	X	457	47.524	30.354	16.198	0.00	0.00
ATOM	6908	HA	PRO	X	457	47.345	29.283	16.107	0.00	0.00
ATOM	6909	C	PRO	X	457	49.054	30.654	16.280	0.00	0.00
ATOM	6910	O	PRO	X	457	49.935	29.914	15.831	0.00	0.00
ATOM	6911	N	SER	X	458	49.373	31.851	16.846	0.00	0.00
ATOM	6912	H	SER	X	458	48.631	32.202	17.435	0.00	0.00
ATOM	6913	CA	SER	X	458	50.739	32.420	17.119	0.00	0.00
ATOM	6914	HA	SER	X	458	51.479	31.821	16.586	0.00	0.00
ATOM	6915	CB	SER	X	458	50.788	33.849	16.561	0.00	0.00
ATOM	6916	HB2	SER	X	458	51.786	34.210	16.811	0.00	0.00
ATOM	6917	HB3	SER	X	458	50.791	33.783	15.473	0.00	0.00
ATOM	6918	OG	SER	X	458	49.711	34.618	17.206	0.00	0.00
ATOM	6919	HG	SER	X	458	49.137	34.082	17.759	0.00	0.00
ATOM	6920	C	SER	X	458	51.270	32.353	18.523	0.00	0.00
ATOM	6921	O	SER	X	458	52.135	33.117	18.923	0.00	0.00
ATOM	6922	N	ARG	X	459	50.638	31.550	19.375	0.00	0.00
ATOM	6923	H	ARG	X	459	49.781	31.062	19.158	0.00	0.00
ATOM	6924	CA	ARG	X	459	51.132	31.221	20.740	0.00	0.00
ATOM	6925	HA	ARG	X	459	52.033	31.804	20.926	0.00	0.00
ATOM	6926	CB	ARG	X	459	50.111	31.788	21.851	0.00	0.00
ATOM	6927	HB2	ARG	X	459	49.191	31.208	21.929	0.00	0.00
ATOM	6928	HB3	ARG	X	459	50.674	31.679	22.779	0.00	0.00
ATOM	6929	CG	ARG	X	459	49.850	33.300	21.801	0.00	0.00
ATOM	6930	HG2	ARG	X	459	50.758	33.900	21.747	0.00	0.00
ATOM	6931	HG3	ARG	X	459	49.274	33.363	20.877	0.00	0.00
ATOM	6932	CD	ARG	X	459	48.943	33.730	22.934	0.00	0.00
ATOM	6933	HD2	ARG	X	459	48.012	33.175	22.817	0.00	0.00
ATOM	6934	HD3	ARG	X	459	49.287	33.495	23.941	0.00	0.00
ATOM	6935	NE	ARG	X	459	48.448	35.143	22.790	0.00	0.00
ATOM	6936	HE	ARG	X	459	47.497	35.308	22.492	0.00	0.00
ATOM	6937	CZ	ARG	X	459	49.141	36.288	22.907	0.00	0.00
ATOM	6938	NH1	ARG	X	459	50.364	36.383	23.403	0.00	0.00
ATOM	6939	HH11	ARG	X	459	50.908	35.547	23.558	0.00	0.00
ATOM	6940	HH12	ARG	X	459	50.906	37.235	23.410	0.00	0.00
ATOM	6941	NH2	ARG	X	459	48.441	37.377	22.639	0.00	0.00
ATOM	6942	HH21	ARG	X	459	47.461	37.346	22.397	0.00	0.00
ATOM	6943	HH22	ARG	X	459	48.872	38.279	22.782	0.00	0.00
ATOM	6944	C	ARG	X	459	51.610	29.804	20.798	0.00	0.00
ATOM	6945	O	ARG	X	459	51.149	28.949	20.101	0.00	0.00
ATOM	6946	N	ASN	X	460	52.598	29.514	21.648	0.00	0.00
ATOM	6947	H	ASN	X	460	52.908	30.292	22.213	0.00	0.00
ATOM	6948	CA	ASN	X	460	53.298	28.231	21.635	0.00	0.00
ATOM	6949	HA	ASN	X	460	53.106	27.763	20.669	0.00	0.00
ATOM	6950	CB	ASN	X	460	54.861	28.402	21.756	0.00	0.00
ATOM	6951	HB2	ASN	X	460	55.276	29.324	21.349	0.00	0.00
ATOM	6952	HB3	ASN	X	460	54.958	28.547	22.832	0.00	0.00
ATOM	6953	CG	ASN	X	460	55.763	27.222	21.375	0.00	0.00
ATOM	6954	OD1	ASN	X	460	56.360	26.528	22.252	0.00	0.00
ATOM	6955	ND2	ASN	X	460	55.879	26.936	20.080	0.00	0.00
ATOM	6956	HD21	ASN	X	460	56.582	26.281	19.770	0.00	0.00
ATOM	6957	HD22	ASN	X	460	55.728	27.719	19.461	0.00	0.00
ATOM	6958	C	ASN	X	460	52.663	27.299	22.731	0.00	0.00
ATOM	6959	O	ASN	X	460	53.327	26.487	23.451	0.00	0.00

ATOM	6960	N	TYR	X	461	51.319	27.425	22.978	0.00	0.00
ATOM	6961	H	TYR	X	461	50.771	27.890	22.269	0.00	0.00
ATOM	6962	CA	TYR	X	461	50.680	26.485	23.920	0.00	0.00
ATOM	6963	HA	TYR	X	461	51.273	26.228	24.798	0.00	0.00
ATOM	6964	CB	TYR	X	461	49.221	26.919	24.338	0.00	0.00
ATOM	6965	HB2	TYR	X	461	48.540	27.066	23.500	0.00	0.00
ATOM	6966	HB3	TYR	X	461	48.788	26.169	24.999	0.00	0.00
ATOM	6967	CG	TYR	X	461	49.190	28.242	25.124	0.00	0.00
ATOM	6968	CD1	TYR	X	461	49.199	29.487	24.474	0.00	0.00
ATOM	6969	HD1	TYR	X	461	49.136	29.510	23.396	0.00	0.00
ATOM	6970	CE1	TYR	X	461	49.110	30.607	25.268	0.00	0.00
ATOM	6971	HE1	TYR	X	461	49.193	31.593	24.834	0.00	0.00
ATOM	6972	CZ	TYR	X	461	49.004	30.566	26.673	0.00	0.00
ATOM	6973	OH	TYR	X	461	48.885	31.758	27.286	0.00	0.00
ATOM	6974	HH	TYR	X	461	49.007	31.749	28.239	0.00	0.00
ATOM	6975	CE2	TYR	X	461	49.018	29.321	27.321	0.00	0.00
ATOM	6976	HE2	TYR	X	461	48.974	29.249	28.398	0.00	0.00
ATOM	6977	CD2	TYR	X	461	49.101	28.171	26.559	0.00	0.00
ATOM	6978	HD2	TYR	X	461	49.122	27.210	27.052	0.00	0.00
ATOM	6979	C	TYR	X	461	50.540	25.073	23.299	0.00	0.00
ATOM	6980	O	TYR	X	461	50.140	24.952	22.131	0.00	0.00
ATOM	6981	N	THR	X	462	50.586	23.977	24.075	0.00	0.00
ATOM	6982	H	THR	X	462	50.773	24.058	25.064	0.00	0.00
ATOM	6983	CA	THR	X	462	50.296	22.589	23.640	0.00	0.00
ATOM	6984	HA	THR	X	462	50.669	22.287	22.662	0.00	0.00
ATOM	6985	CB	THR	X	462	50.823	21.587	24.759	0.00	0.00
ATOM	6986	HB	THR	X	462	50.664	20.606	24.312	0.00	0.00
ATOM	6987	CG2	THR	X	462	52.288	21.600	24.991	0.00	0.00
ATOM	6988	HG21	THR	X	462	52.717	22.587	25.167	0.00	0.00
ATOM	6989	HG22	THR	X	462	52.888	21.190	24.179	0.00	0.00
ATOM	6990	HG23	THR	X	462	52.520	21.139	25.951	0.00	0.00
ATOM	6991	OG1	THR	X	462	50.191	21.643	26.020	0.00	0.00
ATOM	6992	HG1	THR	X	462	50.157	22.577	26.239	0.00	0.00
ATOM	6993	C	THR	X	462	48.840	22.345	23.604	0.00	0.00
ATOM	6994	O	THR	X	462	48.081	22.924	24.305	0.00	0.00
ATOM	6995	N	ALA	X	463	48.371	21.474	22.755	0.00	0.00
ATOM	6996	H	ALA	X	463	49.062	21.067	22.141	0.00	0.00
ATOM	6997	CA	ALA	X	463	46.964	21.220	22.556	0.00	0.00
ATOM	6998	HA	ALA	X	463	46.474	22.136	22.225	0.00	0.00
ATOM	6999	CB	ALA	X	463	46.801	20.216	21.404	0.00	0.00
ATOM	7000	HB1	ALA	X	463	45.780	19.843	21.311	0.00	0.00
ATOM	7001	HB2	ALA	X	463	47.487	19.379	21.538	0.00	0.00
ATOM	7002	HB3	ALA	X	463	47.114	20.595	20.432	0.00	0.00
ATOM	7003	C	ALA	X	463	46.161	20.805	23.824	0.00	0.00
ATOM	7004	O	ALA	X	463	44.971	21.058	23.898	0.00	0.00
ATOM	7005	N	GLU	X	464	46.878	20.150	24.687	0.00	0.00
ATOM	7006	H	GLU	X	464	47.818	19.950	24.377	0.00	0.00
ATOM	7007	CA	GLU	X	464	46.387	19.684	26.046	0.00	0.00
ATOM	7008	HA	GLU	X	464	45.622	18.910	25.981	0.00	0.00
ATOM	7009	CB	GLU	X	464	47.579	19.084	26.790	0.00	0.00
ATOM	7010	HB2	GLU	X	464	48.335	19.868	26.758	0.00	0.00
ATOM	7011	HB3	GLU	X	464	47.449	18.801	27.835	0.00	0.00
ATOM	7012	CG	GLU	X	464	48.325	17.918	26.017	0.00	0.00
ATOM	7013	HG2	GLU	X	464	47.796	16.966	26.065	0.00	0.00
ATOM	7014	HG3	GLU	X	464	48.392	18.137	24.951	0.00	0.00
ATOM	7015	CD	GLU	X	464	49.718	17.631	26.633	0.00	0.00
ATOM	7016	OE1	GLU	X	464	50.717	18.000	25.979	0.00	0.00
ATOM	7017	OE2	GLU	X	464	49.844	17.175	27.771	0.00	0.00
ATOM	7018	C	GLU	X	464	45.787	20.940	26.786	0.00	0.00
ATOM	7019	O	GLU	X	464	44.766	20.857	27.549	0.00	0.00
ATOM	7020	N	GLU	X	465	46.483	22.021	26.702	0.00	0.00
ATOM	7021	H	GLU	X	465	47.325	21.976	26.146	0.00	0.00
ATOM	7022	CA	GLU	X	465	46.082	23.257	27.286	0.00	0.00
ATOM	7023	HA	GLU	X	465	45.796	23.109	28.328	0.00	0.00
ATOM	7024	CB	GLU	X	465	47.306	24.222	27.326	0.00	0.00
ATOM	7025	HB2	GLU	X	465	47.726	24.371	26.331	0.00	0.00
ATOM	7026	HB3	GLU	X	465	46.970	25.200	27.672	0.00	0.00

ATOM	7027	CG	GLU	X	465	48.407	23.695	28.395	0.00	0.00
ATOM	7028	HG2	GLU	X	465	48.045	23.990	29.380	0.00	0.00
ATOM	7029	HG3	GLU	X	465	48.426	22.605	28.401	0.00	0.00
ATOM	7030	CD	GLU	X	465	49.850	24.210	28.099	0.00	0.00
ATOM	7031	OE1	GLU	X	465	50.238	24.215	26.959	0.00	0.00
ATOM	7032	OE2	GLU	X	465	50.589	24.626	29.017	0.00	0.00
ATOM	7033	C	GLU	X	465	44.958	24.002	26.577	0.00	0.00
ATOM	7034	O	GLU	X	465	44.261	24.800	27.149	0.00	0.00
ATOM	7035	N	LYS	X	466	44.736	23.774	25.312	0.00	0.00
ATOM	7036	H	LYS	X	466	45.410	23.150	24.893	0.00	0.00
ATOM	7037	CA	LYS	X	466	43.706	24.389	24.500	0.00	0.00
ATOM	7038	HA	LYS	X	466	43.717	25.462	24.690	0.00	0.00
ATOM	7039	CB	LYS	X	466	44.045	24.247	23.022	0.00	0.00
ATOM	7040	HB2	LYS	X	466	44.054	23.177	22.815	0.00	0.00
ATOM	7041	HB3	LYS	X	466	43.229	24.586	22.383	0.00	0.00
ATOM	7042	CG	LYS	X	466	45.373	24.942	22.671	0.00	0.00
ATOM	7043	HG2	LYS	X	466	45.227	26.008	22.848	0.00	0.00
ATOM	7044	HG3	LYS	X	466	46.157	24.640	23.366	0.00	0.00
ATOM	7045	CD	LYS	X	466	45.829	24.745	21.207	0.00	0.00
ATOM	7046	HD2	LYS	X	466	46.140	23.719	21.009	0.00	0.00
ATOM	7047	HD3	LYS	X	466	44.928	24.936	20.623	0.00	0.00
ATOM	7048	CE	LYS	X	466	46.844	25.704	20.710	0.00	0.00
ATOM	7049	HE2	LYS	X	466	46.711	26.657	21.222	0.00	0.00
ATOM	7050	HE3	LYS	X	466	47.802	25.458	21.169	0.00	0.00
ATOM	7051	NZ	LYS	X	466	46.879	26.011	19.299	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	47.074	25.199	18.731	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	45.952	26.321	19.044	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	47.484	26.754	18.980	0.00	0.00
ATOM	7055	C	LYS	X	466	42.344	23.710	24.788	0.00	0.00
ATOM	7056	O	LYS	X	466	41.255	24.324	24.686	0.00	0.00
ATOM	7057	N	ILE	X	467	42.343	22.398	25.076	0.00	0.00
ATOM	7058	H	ILE	X	467	43.290	22.047	25.106	0.00	0.00
ATOM	7059	CA	ILE	X	467	41.203	21.578	25.526	0.00	0.00
ATOM	7060	HA	ILE	X	467	40.361	21.968	24.954	0.00	0.00
ATOM	7061	CB	ILE	X	467	41.295	20.071	25.162	0.00	0.00
ATOM	7062	HB	ILE	X	467	41.461	20.019	24.086	0.00	0.00
ATOM	7063	CG2	ILE	X	467	42.489	19.329	25.813	0.00	0.00
ATOM	7064	HG21	ILE	X	467	42.517	18.434	25.191	0.00	0.00
ATOM	7065	HG22	ILE	X	467	42.337	19.110	26.870	0.00	0.00
ATOM	7066	HG23	ILE	X	467	43.273	20.024	25.514	0.00	0.00
ATOM	7067	CG1	ILE	X	467	39.955	19.325	25.291	0.00	0.00
ATOM	7068	HG12	ILE	X	467	39.852	19.046	26.340	0.00	0.00
ATOM	7069	HG13	ILE	X	467	39.174	20.025	24.996	0.00	0.00
ATOM	7070	CD1	ILE	X	467	39.864	18.015	24.474	0.00	0.00
ATOM	7071	HD11	ILE	X	467	40.757	17.474	24.787	0.00	0.00
ATOM	7072	HD12	ILE	X	467	39.903	18.248	23.410	0.00	0.00
ATOM	7073	HD13	ILE	X	467	38.953	17.526	24.821	0.00	0.00
ATOM	7074	C	ILE	X	467	40.842	21.942	26.966	0.00	0.00
ATOM	7075	O	ILE	X	467	39.653	22.198	27.257	0.00	0.00
ATOM	7076	N	PHE	X	468	41.839	21.941	27.858	0.00	0.00
ATOM	7077	H	PHE	X	468	42.765	21.728	27.515	0.00	0.00
ATOM	7078	CA	PHE	X	468	41.644	22.316	29.255	0.00	0.00
ATOM	7079	HA	PHE	X	468	41.022	21.560	29.736	0.00	0.00
ATOM	7080	CB	PHE	X	468	43.042	22.202	29.902	0.00	0.00
ATOM	7081	HB2	PHE	X	468	43.432	21.185	29.880	0.00	0.00
ATOM	7082	HB3	PHE	X	468	43.702	22.754	29.233	0.00	0.00
ATOM	7083	CG	PHE	X	468	43.136	22.830	31.273	0.00	0.00
ATOM	7084	CD1	PHE	X	468	42.322	22.441	32.370	0.00	0.00
ATOM	7085	HD1	PHE	X	468	41.513	21.777	32.102	0.00	0.00
ATOM	7086	CE1	PHE	X	468	42.456	22.964	33.610	0.00	0.00
ATOM	7087	HE1	PHE	X	468	41.775	22.563	34.346	0.00	0.00
ATOM	7088	CZ	PHE	X	468	43.499	23.825	33.871	0.00	0.00
ATOM	7089	HZ	PHE	X	468	43.684	24.105	34.898	0.00	0.00
ATOM	7090	CE2	PHE	X	468	44.446	24.241	32.808	0.00	0.00
ATOM	7091	HE2	PHE	X	468	45.214	24.953	33.070	0.00	0.00
ATOM	7092	CD2	PHE	X	468	44.174	23.771	31.511	0.00	0.00
ATOM	7093	HD2	PHE	X	468	44.794	24.032	30.666	0.00	0.00

ATOM	7094	C	PHE	X	468	41.086	23.735	29.504	0.00	0.00
ATOM	7095	O	PHE	X	468	40.204	23.860	30.391	0.00	0.00
ATOM	7096	N	ALA	X	469	41.500	24.758	28.758	0.00	0.00
ATOM	7097	H	ALA	X	469	42.305	24.568	28.179	0.00	0.00
ATOM	7098	CA	ALA	X	469	41.086	26.135	28.888	0.00	0.00
ATOM	7099	HA	ALA	X	469	41.257	26.568	29.873	0.00	0.00
ATOM	7100	CB	ALA	X	469	41.810	27.023	27.855	0.00	0.00
ATOM	7101	HB1	ALA	X	469	42.875	27.032	28.089	0.00	0.00
ATOM	7102	HB2	ALA	X	469	41.527	28.074	27.912	0.00	0.00
ATOM	7103	HB3	ALA	X	469	41.557	26.720	26.839	0.00	0.00
ATOM	7104	C	ALA	X	469	39.554	26.248	28.740	0.00	0.00
ATOM	7105	O	ALA	X	469	38.916	27.052	29.367	0.00	0.00
ATOM	7106	N	GLN	X	470	39.013	25.651	27.726	0.00	0.00
ATOM	7107	H	GLN	X	470	39.625	25.080	27.160	0.00	0.00
ATOM	7108	CA	GLN	X	470	37.598	25.729	27.391	0.00	0.00
ATOM	7109	HA	GLN	X	470	37.286	26.769	27.300	0.00	0.00
ATOM	7110	CB	GLN	X	470	37.291	25.030	26.065	0.00	0.00
ATOM	7111	HB2	GLN	X	470	37.608	24.001	25.898	0.00	0.00
ATOM	7112	HB3	GLN	X	470	36.214	25.042	25.896	0.00	0.00
ATOM	7113	CG	GLN	X	470	37.948	25.776	24.961	0.00	0.00
ATOM	7114	HG2	GLN	X	470	37.594	26.804	24.873	0.00	0.00
ATOM	7115	HG3	GLN	X	470	38.992	25.925	25.237	0.00	0.00
ATOM	7116	CD	GLN	X	470	37.856	25.121	23.543	0.00	0.00
ATOM	7117	OE1	GLN	X	470	36.855	25.251	22.788	0.00	0.00
ATOM	7118	NE2	GLN	X	470	38.868	24.382	23.113	0.00	0.00
ATOM	7119	HE21	GLN	X	470	38.690	23.779	22.322	0.00	0.00
ATOM	7120	HE22	GLN	X	470	39.798	24.523	23.483	0.00	0.00
ATOM	7121	C	GLN	X	470	36.687	25.146	28.489	0.00	0.00
ATOM	7122	O	GLN	X	470	35.519	25.579	28.534	0.00	0.00
ATOM	7123	N	ARG	X	471	37.188	24.240	29.393	0.00	0.00
ATOM	7124	H	ARG	X	471	38.155	23.957	29.322	0.00	0.00
ATOM	7125	CA	ARG	X	471	36.451	23.859	30.617	0.00	0.00
ATOM	7126	HA	ARG	X	471	35.451	23.535	30.329	0.00	0.00
ATOM	7127	CB	ARG	X	471	37.118	22.760	31.445	0.00	0.00
ATOM	7128	HB2	ARG	X	471	38.160	23.034	31.608	0.00	0.00
ATOM	7129	HB3	ARG	X	471	36.538	22.746	32.368	0.00	0.00
ATOM	7130	CG	ARG	X	471	37.010	21.395	30.845	0.00	0.00
ATOM	7131	HG2	ARG	X	471	35.972	21.068	30.893	0.00	0.00
ATOM	7132	HG3	ARG	X	471	37.272	21.476	29.790	0.00	0.00
ATOM	7133	CD	ARG	X	471	37.777	20.220	31.423	0.00	0.00
ATOM	7134	HD2	ARG	X	471	37.374	19.277	31.055	0.00	0.00
ATOM	7135	HD3	ARG	X	471	38.816	20.344	31.117	0.00	0.00
ATOM	7136	NE	ARG	X	471	37.722	20.090	32.868	0.00	0.00
ATOM	7137	HE	ARG	X	471	36.813	19.922	33.274	0.00	0.00
ATOM	7138	CZ	ARG	X	471	38.700	19.918	33.734	0.00	0.00
ATOM	7139	NH1	ARG	X	471	39.942	19.533	33.345	0.00	0.00
ATOM	7140	HH11	ARG	X	471	40.297	19.664	32.408	0.00	0.00
ATOM	7141	HH12	ARG	X	471	40.517	19.180	34.096	0.00	0.00
ATOM	7142	NH2	ARG	X	471	38.395	19.772	34.971	0.00	0.00
ATOM	7143	HH21	ARG	X	471	37.519	20.068	35.377	0.00	0.00
ATOM	7144	HH22	ARG	X	471	39.234	19.641	35.518	0.00	0.00
ATOM	7145	C	ARG	X	471	36.261	25.113	31.512	0.00	0.00
ATOM	7146	O	ARG	X	471	35.128	25.414	32.025	0.00	0.00
ATOM	7147	N	LEU	X	472	37.361	25.860	31.752	0.00	0.00
ATOM	7148	H	LEU	X	472	38.087	25.897	31.051	0.00	0.00
ATOM	7149	CA	LEU	X	472	37.466	26.992	32.660	0.00	0.00
ATOM	7150	HA	LEU	X	472	36.942	26.643	33.550	0.00	0.00
ATOM	7151	CB	LEU	X	472	38.974	27.274	32.887	0.00	0.00
ATOM	7152	HB2	LEU	X	472	39.491	26.735	32.093	0.00	0.00
ATOM	7153	HB3	LEU	X	472	39.277	28.320	32.919	0.00	0.00
ATOM	7154	CG	LEU	X	472	39.437	26.612	34.243	0.00	0.00
ATOM	7155	HG	LEU	X	472	38.791	27.120	34.959	0.00	0.00
ATOM	7156	CD1	LEU	X	472	39.384	25.106	34.321	0.00	0.00
ATOM	7157	HD11	LEU	X	472	39.902	24.679	35.179	0.00	0.00
ATOM	7158	HD12	LEU	X	472	39.738	24.805	33.335	0.00	0.00
ATOM	7159	HD13	LEU	X	472	38.361	24.733	34.379	0.00	0.00
ATOM	7160	CD2	LEU	X	472	40.942	27.061	34.536	0.00	0.00

ATOM	7161	HD21	LEU	X	472	41.382	27.713	33.781	0.00	0.00
ATOM	7162	HD22	LEU	X	472	41.012	27.522	35.522	0.00	0.00
ATOM	7163	HD23	LEU	X	472	41.575	26.175	34.565	0.00	0.00
ATOM	7164	C	LEU	X	472	36.800	28.253	32.219	0.00	0.00
ATOM	7165	O	LEU	X	472	36.102	28.850	33.037	0.00	0.00
ATOM	7166	N	MET	X	473	36.887	28.542	30.918	0.00	0.00
ATOM	7167	H	MET	X	473	37.528	28.039	30.322	0.00	0.00
ATOM	7168	CA	MET	X	473	36.005	29.553	30.128	0.00	0.00
ATOM	7169	HA	MET	X	473	36.210	30.508	30.612	0.00	0.00
ATOM	7170	CB	MET	X	473	36.428	29.582	28.657	0.00	0.00
ATOM	7171	HB2	MET	X	473	35.986	28.702	28.190	0.00	0.00
ATOM	7172	HB3	MET	X	473	36.056	30.510	28.222	0.00	0.00
ATOM	7173	CG	MET	X	473	37.852	29.652	28.224	0.00	0.00
ATOM	7174	HG2	MET	X	473	38.042	30.725	28.197	0.00	0.00
ATOM	7175	HG3	MET	X	473	38.436	29.161	29.002	0.00	0.00
ATOM	7176	SD	MET	X	473	38.253	28.970	26.570	0.00	0.00
ATOM	7177	CE	MET	X	473	37.209	29.903	25.443	0.00	0.00
ATOM	7178	HE1	MET	X	473	37.455	30.961	25.527	0.00	0.00
ATOM	7179	HE2	MET	X	473	37.385	29.688	24.389	0.00	0.00
ATOM	7180	HE3	MET	X	473	36.149	29.695	25.593	0.00	0.00
ATOM	7181	C	MET	X	473	34.488	29.348	30.358	0.00	0.00
ATOM	7182	O	MET	X	473	33.721	30.234	30.813	0.00	0.00
ATOM	7183	N	ARG	X	474	33.963	28.151	30.006	0.00	0.00
ATOM	7184	H	ARG	X	474	34.661	27.438	29.845	0.00	0.00
ATOM	7185	CA	ARG	X	474	32.585	27.676	30.237	0.00	0.00
ATOM	7186	HA	ARG	X	474	31.857	28.327	29.755	0.00	0.00
ATOM	7187	CB	ARG	X	474	32.435	26.315	29.657	0.00	0.00
ATOM	7188	HB2	ARG	X	474	32.850	26.345	28.650	0.00	0.00
ATOM	7189	HB3	ARG	X	474	32.923	25.581	30.298	0.00	0.00
ATOM	7190	CG	ARG	X	474	31.087	25.757	29.499	0.00	0.00
ATOM	7191	HG2	ARG	X	474	31.127	24.747	29.090	0.00	0.00
ATOM	7192	HG3	ARG	X	474	30.518	25.747	30.428	0.00	0.00
ATOM	7193	CD	ARG	X	474	30.288	26.660	28.527	0.00	0.00
ATOM	7194	HD2	ARG	X	474	30.088	27.550	29.123	0.00	0.00
ATOM	7195	HD3	ARG	X	474	30.938	26.858	27.675	0.00	0.00
ATOM	7196	NE	ARG	X	474	29.052	25.988	28.106	0.00	0.00
ATOM	7197	HE	ARG	X	474	28.707	25.312	28.773	0.00	0.00
ATOM	7198	CZ	ARG	X	474	28.151	26.376	27.233	0.00	0.00
ATOM	7199	NH1	ARG	X	474	28.468	27.315	26.346	0.00	0.00
ATOM	7200	HH11	ARG	X	474	29.323	27.843	26.448	0.00	0.00
ATOM	7201	HH12	ARG	X	474	27.739	27.566	25.693	0.00	0.00
ATOM	7202	NH2	ARG	X	474	26.940	25.801	27.229	0.00	0.00
ATOM	7203	HH21	ARG	X	474	26.834	25.080	27.928	0.00	0.00
ATOM	7204	HH22	ARG	X	474	26.213	26.149	26.619	0.00	0.00
ATOM	7205	C	ARG	X	474	32.140	27.708	31.706	0.00	0.00
ATOM	7206	O	ARG	X	474	31.065	28.184	31.879	0.00	0.00
ATOM	7207	N	TYR	X	475	32.952	27.385	32.762	0.00	0.00
ATOM	7208	H	TYR	X	475	33.780	26.891	32.461	0.00	0.00
ATOM	7209	CA	TYR	X	475	32.560	27.428	34.150	0.00	0.00
ATOM	7210	HA	TYR	X	475	31.792	26.705	34.425	0.00	0.00
ATOM	7211	CB	TYR	X	475	33.801	26.830	34.919	0.00	0.00
ATOM	7212	HB2	TYR	X	475	34.675	27.347	34.522	0.00	0.00
ATOM	7213	HB3	TYR	X	475	33.719	27.136	35.962	0.00	0.00
ATOM	7214	CG	TYR	X	475	34.042	25.235	34.884	0.00	0.00
ATOM	7215	CD1	TYR	X	475	33.224	24.326	34.181	0.00	0.00
ATOM	7216	HD1	TYR	X	475	32.312	24.670	33.716	0.00	0.00
ATOM	7217	CE1	TYR	X	475	33.621	22.960	34.123	0.00	0.00
ATOM	7218	HE1	TYR	X	475	32.991	22.272	33.579	0.00	0.00
ATOM	7219	CZ	TYR	X	475	34.727	22.474	34.835	0.00	0.00
ATOM	7220	OH	TYR	X	475	35.109	21.180	34.693	0.00	0.00
ATOM	7221	HH	TYR	X	475	34.399	20.738	34.222	0.00	0.00
ATOM	7222	CE2	TYR	X	475	35.525	23.392	35.595	0.00	0.00
ATOM	7223	HE2	TYR	X	475	36.402	23.106	36.156	0.00	0.00
ATOM	7224	CD2	TYR	X	475	35.136	24.763	35.591	0.00	0.00
ATOM	7225	HD2	TYR	X	475	35.790	25.462	36.093	0.00	0.00
ATOM	7226	C	TYR	X	475	32.301	28.851	34.673	0.00	0.00
ATOM	7227	O	TYR	X	475	31.220	29.196	35.170	0.00	0.00

ATOM	7228	N	TRP	X	476	33.226	29.708	34.275	0.00	0.00
ATOM	7229	H	TRP	X	476	33.974	29.392	33.674	0.00	0.00
ATOM	7230	CA	TRP	X	476	33.041	31.103	34.545	0.00	0.00
ATOM	7231	HA	TRP	X	476	32.902	31.221	35.620	0.00	0.00
ATOM	7232	CB	TRP	X	476	34.436	31.848	34.243	0.00	0.00
ATOM	7233	HB2	TRP	X	476	35.054	31.421	33.453	0.00	0.00
ATOM	7234	HB3	TRP	X	476	34.150	32.855	33.938	0.00	0.00
ATOM	7235	CG	TRP	X	476	35.423	31.998	35.353	0.00	0.00
ATOM	7236	CD1	TRP	X	476	35.753	33.223	35.912	0.00	0.00
ATOM	7237	HD1	TRP	X	476	35.282	34.135	35.576	0.00	0.00
ATOM	7238	NE1	TRP	X	476	36.772	33.059	36.789	0.00	0.00
ATOM	7239	HE1	TRP	X	476	37.246	33.910	37.056	0.00	0.00
ATOM	7240	CE2	TRP	X	476	37.131	31.779	36.974	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	38.208	31.161	37.702	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	38.890	31.747	38.300	0.00	0.00
ATOM	7243	CH2	TRP	X	476	38.343	29.793	37.549	0.00	0.00
ATOM	7244	HH2	TRP	X	476	39.116	29.353	38.162	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	37.386	29.074	36.851	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	37.441	27.995	36.872	0.00	0.00
ATOM	7247	CE3	TRP	X	476	36.433	29.649	36.103	0.00	0.00
ATOM	7248	HE3	TRP	X	476	35.798	28.986	35.534	0.00	0.00
ATOM	7249	CD2	TRP	X	476	36.263	31.050	36.073	0.00	0.00
ATOM	7250	C	TRP	X	476	31.902	31.677	33.730	0.00	0.00
ATOM	7251	O	TRP	X	476	31.214	32.501	34.260	0.00	0.00
ATOM	7252	N	ALA	X	477	31.698	31.347	32.471	0.00	0.00
ATOM	7253	H	ALA	X	477	32.311	30.749	31.936	0.00	0.00
ATOM	7254	CA	ALA	X	477	30.533	31.868	31.727	0.00	0.00
ATOM	7255	HA	ALA	X	477	30.366	32.930	31.902	0.00	0.00
ATOM	7256	CB	ALA	X	477	30.754	31.668	30.259	0.00	0.00
ATOM	7257	HB1	ALA	X	477	29.885	31.976	29.677	0.00	0.00
ATOM	7258	HB2	ALA	X	477	31.025	30.670	29.915	0.00	0.00
ATOM	7259	HB3	ALA	X	477	31.595	32.332	30.059	0.00	0.00
ATOM	7260	C	ALA	X	477	29.164	31.231	32.221	0.00	0.00
ATOM	7261	O	ALA	X	477	28.193	31.962	32.262	0.00	0.00
ATOM	7262	N	ASN	X	478	29.133	29.999	32.563	0.00	0.00
ATOM	7263	H	ASN	X	478	29.933	29.403	32.405	0.00	0.00
ATOM	7264	CA	ASN	X	478	27.971	29.241	33.197	0.00	0.00
ATOM	7265	HA	ASN	X	478	27.085	29.306	32.565	0.00	0.00
ATOM	7266	CB	ASN	X	478	28.248	27.757	33.444	0.00	0.00
ATOM	7267	HB2	ASN	X	478	29.221	27.617	33.914	0.00	0.00
ATOM	7268	HB3	ASN	X	478	27.571	27.292	34.160	0.00	0.00
ATOM	7269	CG	ASN	X	478	28.193	26.988	32.123	0.00	0.00
ATOM	7270	OD1	ASN	X	478	28.290	27.589	31.052	0.00	0.00
ATOM	7271	ND2	ASN	X	478	28.186	25.675	32.156	0.00	0.00
ATOM	7272	HD21	ASN	X	478	28.386	25.204	31.285	0.00	0.00
ATOM	7273	HD22	ASN	X	478	28.455	25.349	33.073	0.00	0.00
ATOM	7274	C	ASN	X	478	27.562	29.907	34.508	0.00	0.00
ATOM	7275	O	ASN	X	478	26.336	30.078	34.735	0.00	0.00
ATOM	7276	N	PHE	X	479	28.532	30.279	35.394	0.00	0.00
ATOM	7277	H	PHE	X	479	29.475	29.948	35.253	0.00	0.00
ATOM	7278	CA	PHE	X	479	28.257	31.040	36.615	0.00	0.00
ATOM	7279	HA	PHE	X	479	27.567	30.437	37.204	0.00	0.00
ATOM	7280	CB	PHE	X	479	29.560	31.408	37.377	0.00	0.00
ATOM	7281	HB2	PHE	X	479	30.196	30.534	37.516	0.00	0.00
ATOM	7282	HB3	PHE	X	479	30.247	31.932	36.713	0.00	0.00
ATOM	7283	CG	PHE	X	479	29.367	32.153	38.719	0.00	0.00
ATOM	7284	CD1	PHE	X	479	28.399	31.755	39.658	0.00	0.00
ATOM	7285	HD1	PHE	X	479	28.029	30.742	39.595	0.00	0.00
ATOM	7286	CE1	PHE	X	479	28.162	32.511	40.839	0.00	0.00
ATOM	7287	HE1	PHE	X	479	27.476	32.105	41.568	0.00	0.00
ATOM	7288	CZ	PHE	X	479	29.038	33.621	41.082	0.00	0.00
ATOM	7289	HZ	PHE	X	479	28.948	34.289	41.925	0.00	0.00
ATOM	7290	CE2	PHE	X	479	29.993	34.067	40.136	0.00	0.00
ATOM	7291	HE2	PHE	X	479	30.450	35.044	40.193	0.00	0.00
ATOM	7292	CD2	PHE	X	479	30.182	33.327	38.947	0.00	0.00
ATOM	7293	HD2	PHE	X	479	30.827	33.698	38.165	0.00	0.00
ATOM	7294	C	PHE	X	479	27.526	32.371	36.278	0.00	0.00

ATOM	7295	O	PHE	X	479	26.518	32.644	36.872	0.00	0.00
ATOM	7296	N	ALA	X	480	27.977	33.153	35.311	0.00	0.00
ATOM	7297	H	ALA	X	480	28.865	32.886	34.911	0.00	0.00
ATOM	7298	CA	ALA	X	480	27.324	34.306	34.754	0.00	0.00
ATOM	7299	HA	ALA	X	480	27.185	35.007	35.577	0.00	0.00
ATOM	7300	CB	ALA	X	480	28.101	34.963	33.684	0.00	0.00
ATOM	7301	HB1	ALA	X	480	28.150	34.346	32.787	0.00	0.00
ATOM	7302	HB2	ALA	X	480	29.125	35.105	34.028	0.00	0.00
ATOM	7303	HB3	ALA	X	480	27.683	35.942	33.449	0.00	0.00
ATOM	7304	C	ALA	X	480	25.936	33.916	34.296	0.00	0.00
ATOM	7305	O	ALA	X	480	25.011	34.623	34.688	0.00	0.00
ATOM	7306	N	ARG	X	481	25.741	32.802	33.610	0.00	0.00
ATOM	7307	H	ARG	X	481	26.564	32.296	33.317	0.00	0.00
ATOM	7308	CA	ARG	X	481	24.479	32.447	33.070	0.00	0.00
ATOM	7309	HA	ARG	X	481	24.185	33.293	32.450	0.00	0.00
ATOM	7310	CB	ARG	X	481	24.598	31.242	32.080	0.00	0.00
ATOM	7311	HB2	ARG	X	481	25.288	30.552	32.566	0.00	0.00
ATOM	7312	HB3	ARG	X	481	23.623	30.759	32.143	0.00	0.00
ATOM	7313	CG	ARG	X	481	25.062	31.648	30.640	0.00	0.00
ATOM	7314	HG2	ARG	X	481	24.277	32.128	30.055	0.00	0.00
ATOM	7315	HG3	ARG	X	481	25.839	32.408	30.724	0.00	0.00
ATOM	7316	CD	ARG	X	481	25.583	30.498	29.852	0.00	0.00
ATOM	7317	HD2	ARG	X	481	26.152	29.927	30.586	0.00	0.00
ATOM	7318	HD3	ARG	X	481	24.706	29.961	29.492	0.00	0.00
ATOM	7319	NE	ARG	X	481	26.436	30.890	28.693	0.00	0.00
ATOM	7320	HE	ARG	X	481	26.107	31.748	28.274	0.00	0.00
ATOM	7321	CZ	ARG	X	481	27.580	30.320	28.241	0.00	0.00
ATOM	7322	NH1	ARG	X	481	28.316	29.381	28.786	0.00	0.00
ATOM	7323	HH11	ARG	X	481	28.097	28.929	29.662	0.00	0.00
ATOM	7324	HH12	ARG	X	481	29.164	29.081	28.325	0.00	0.00
ATOM	7325	NH2	ARG	X	481	28.144	30.656	27.103	0.00	0.00
ATOM	7326	HH21	ARG	X	481	27.877	31.498	26.614	0.00	0.00
ATOM	7327	HH22	ARG	X	481	28.950	30.150	26.766	0.00	0.00
ATOM	7328	C	ARG	X	481	23.403	32.132	34.087	0.00	0.00
ATOM	7329	O	ARG	X	481	22.238	32.389	33.768	0.00	0.00
ATOM	7330	N	THR	X	482	23.759	31.463	35.273	0.00	0.00
ATOM	7331	H	THR	X	482	24.619	30.935	35.318	0.00	0.00
ATOM	7332	CA	THR	X	482	22.719	30.996	36.150	0.00	0.00
ATOM	7333	HA	THR	X	482	21.912	31.725	36.221	0.00	0.00
ATOM	7334	CB	THR	X	482	21.996	29.653	35.628	0.00	0.00
ATOM	7335	HB	THR	X	482	21.368	29.306	36.448	0.00	0.00
ATOM	7336	CG2	THR	X	482	21.104	29.742	34.361	0.00	0.00
ATOM	7337	HG21	THR	X	482	21.638	29.979	33.441	0.00	0.00
ATOM	7338	HG22	THR	X	482	20.265	30.402	34.579	0.00	0.00
ATOM	7339	HG23	THR	X	482	20.658	28.751	34.270	0.00	0.00
ATOM	7340	OG1	THR	X	482	23.072	28.740	35.367	0.00	0.00
ATOM	7341	HG1	THR	X	482	22.683	27.868	35.264	0.00	0.00
ATOM	7342	C	THR	X	482	23.167	30.906	37.540	0.00	0.00
ATOM	7343	O	THR	X	482	22.524	30.157	38.332	0.00	0.00
ATOM	7344	N	GLY	X	483	24.165	31.677	37.959	0.00	0.00
ATOM	7345	H	GLY	X	483	24.727	32.074	37.220	0.00	0.00
ATOM	7346	CA	GLY	X	483	24.766	31.509	39.294	0.00	0.00
ATOM	7347	HA2	GLY	X	483	25.467	32.317	39.500	0.00	0.00
ATOM	7348	HA3	GLY	X	483	23.995	31.505	40.064	0.00	0.00
ATOM	7349	C	GLY	X	483	25.410	30.102	39.536	0.00	0.00
ATOM	7350	O	GLY	X	483	25.536	29.851	40.727	0.00	0.00
ATOM	7351	N	ASP	X	484	25.714	29.261	38.543	0.00	0.00
ATOM	7352	H	ASP	X	484	25.505	29.532	37.593	0.00	0.00
ATOM	7353	CA	ASP	X	484	26.088	27.866	38.814	0.00	0.00
ATOM	7354	HA	ASP	X	484	26.602	27.851	39.775	0.00	0.00
ATOM	7355	CB	ASP	X	484	24.827	26.994	39.008	0.00	0.00
ATOM	7356	HB2	ASP	X	484	24.214	27.429	39.797	0.00	0.00
ATOM	7357	HB3	ASP	X	484	24.253	26.869	38.090	0.00	0.00
ATOM	7358	CG	ASP	X	484	25.210	25.539	39.552	0.00	0.00
ATOM	7359	OD1	ASP	X	484	24.467	24.872	40.325	0.00	0.00
ATOM	7360	OD2	ASP	X	484	26.281	25.022	39.083	0.00	0.00
ATOM	7361	C	ASP	X	484	27.030	27.335	37.686	0.00	0.00

ATOM	7362	O	ASP	X	484	26.568	27.409	36.551	0.00	0.00
ATOM	7363	N	PRO	X	485	28.328	26.906	37.962	0.00	0.00
ATOM	7364	CD	PRO	X	485	29.067	26.965	39.236	0.00	0.00
ATOM	7365	HD2	PRO	X	485	28.849	26.063	39.807	0.00	0.00
ATOM	7366	HD3	PRO	X	485	28.625	27.762	39.834	0.00	0.00
ATOM	7367	CG	PRO	X	485	30.514	27.091	38.806	0.00	0.00
ATOM	7368	HG2	PRO	X	485	31.236	26.759	39.552	0.00	0.00
ATOM	7369	HG3	PRO	X	485	30.655	28.097	38.411	0.00	0.00
ATOM	7370	CB	PRO	X	485	30.475	26.011	37.735	0.00	0.00
ATOM	7371	HB2	PRO	X	485	30.326	25.030	38.188	0.00	0.00
ATOM	7372	HB3	PRO	X	485	31.335	26.006	37.066	0.00	0.00
ATOM	7373	CA	PRO	X	485	29.236	26.394	36.914	0.00	0.00
ATOM	7374	HA	PRO	X	485	29.454	27.256	36.283	0.00	0.00
ATOM	7375	C	PRO	X	485	28.707	25.226	36.061	0.00	0.00
ATOM	7376	O	PRO	X	485	29.211	25.050	34.929	0.00	0.00
ATOM	7377	N	ASN	X	486	27.607	24.535	36.525	0.00	0.00
ATOM	7378	H	ASN	X	486	27.174	24.989	37.317	0.00	0.00
ATOM	7379	CA	ASN	X	486	26.839	23.439	35.873	0.00	0.00
ATOM	7380	HA	ASN	X	486	27.595	22.768	35.463	0.00	0.00
ATOM	7381	CB	ASN	X	486	26.068	22.671	36.947	0.00	0.00
ATOM	7382	HB2	ASN	X	486	26.677	22.371	37.800	0.00	0.00
ATOM	7383	HB3	ASN	X	486	25.218	23.254	37.302	0.00	0.00
ATOM	7384	CG	ASN	X	486	25.649	21.351	36.393	0.00	0.00
ATOM	7385	OD1	ASN	X	486	26.146	20.829	35.444	0.00	0.00
ATOM	7386	ND2	ASN	X	486	24.603	20.695	36.962	0.00	0.00
ATOM	7387	HD21	ASN	X	486	24.238	19.820	36.613	0.00	0.00
ATOM	7388	HD22	ASN	X	486	24.203	20.950	37.853	0.00	0.00
ATOM	7389	C	ASN	X	486	26.000	23.975	34.676	0.00	0.00
ATOM	7390	O	ASN	X	486	25.358	25.006	34.782	0.00	0.00
ATOM	7391	N	GLU	X	487	25.898	23.184	33.616	0.00	0.00
ATOM	7392	H	GLU	X	487	26.402	22.319	33.747	0.00	0.00
ATOM	7393	CA	GLU	X	487	24.980	23.426	32.506	0.00	0.00
ATOM	7394	HA	GLU	X	487	25.100	24.444	32.135	0.00	0.00
ATOM	7395	CB	GLU	X	487	25.206	22.436	31.425	0.00	0.00
ATOM	7396	HB2	GLU	X	487	25.042	21.392	31.694	0.00	0.00
ATOM	7397	HB3	GLU	X	487	24.382	22.608	30.732	0.00	0.00
ATOM	7398	CG	GLU	X	487	26.584	22.411	30.733	0.00	0.00
ATOM	7399	HG2	GLU	X	487	27.443	22.341	31.400	0.00	0.00
ATOM	7400	HG3	GLU	X	487	26.577	21.623	29.981	0.00	0.00
ATOM	7401	CD	GLU	X	487	26.861	23.656	29.891	0.00	0.00
ATOM	7402	OE1	GLU	X	487	25.989	24.366	29.368	0.00	0.00
ATOM	7403	OE2	GLU	X	487	28.095	23.982	29.766	0.00	0.00
ATOM	7404	C	GLU	X	487	23.587	23.038	33.015	0.00	0.00
ATOM	7405	O	GLU	X	487	23.336	21.981	33.563	0.00	0.00
ATOM	7406	N	PRO	X	488	22.574	23.886	32.865	0.00	0.00
ATOM	7407	CD	PRO	X	488	22.532	24.928	31.886	0.00	0.00
ATOM	7408	HD2	PRO	X	488	22.945	24.442	31.002	0.00	0.00
ATOM	7409	HD3	PRO	X	488	23.157	25.755	32.222	0.00	0.00
ATOM	7410	CG	PRO	X	488	21.051	25.233	31.589	0.00	0.00
ATOM	7411	HG2	PRO	X	488	20.585	24.571	30.859	0.00	0.00
ATOM	7412	HG3	PRO	X	488	20.987	26.283	31.300	0.00	0.00
ATOM	7413	CB	PRO	X	488	20.529	24.983	32.982	0.00	0.00
ATOM	7414	HB2	PRO	X	488	19.447	24.853	32.958	0.00	0.00
ATOM	7415	HB3	PRO	X	488	20.718	25.794	33.685	0.00	0.00
ATOM	7416	CA	PRO	X	488	21.266	23.736	33.420	0.00	0.00
ATOM	7417	HA	PRO	X	488	21.336	23.720	34.508	0.00	0.00
ATOM	7418	C	PRO	X	488	20.519	22.481	32.939	0.00	0.00
ATOM	7419	O	PRO	X	488	19.761	21.934	33.748	0.00	0.00
ATOM	7420	N	ARG	X	489	20.875	21.921	31.768	0.00	0.00
ATOM	7421	H	ARG	X	489	21.552	22.355	31.157	0.00	0.00
ATOM	7422	CA	ARG	X	489	20.444	20.576	31.377	0.00	0.00
ATOM	7423	HA	ARG	X	489	19.387	20.410	31.582	0.00	0.00
ATOM	7424	CB	ARG	X	489	20.571	20.406	29.848	0.00	0.00
ATOM	7425	HB2	ARG	X	489	20.039	19.489	29.593	0.00	0.00
ATOM	7426	HB3	ARG	X	489	20.209	21.320	29.378	0.00	0.00
ATOM	7427	CG	ARG	X	489	22.094	20.170	29.566	0.00	0.00
ATOM	7428	HG2	ARG	X	489	22.729	21.039	29.739	0.00	0.00

ATOM	7429	HG3	ARG	X	489	22.451	19.320	30.146	0.00	0.00
ATOM	7430	CD	ARG	X	489	22.250	19.687	28.105	0.00	0.00
ATOM	7431	HD2	ARG	X	489	21.693	18.757	27.987	0.00	0.00
ATOM	7432	HD3	ARG	X	489	21.797	20.429	27.448	0.00	0.00
ATOM	7433	NE	ARG	X	489	23.724	19.456	27.893	0.00	0.00
ATOM	7434	HE	ARG	X	489	24.271	20.192	27.469	0.00	0.00
ATOM	7435	CZ	ARG	X	489	24.350	18.322	27.881	0.00	0.00
ATOM	7436	NH1	ARG	X	489	25.663	18.308	27.487	0.00	0.00
ATOM	7437	HH11	ARG	X	489	26.130	19.139	27.154	0.00	0.00
ATOM	7438	HH12	ARG	X	489	26.223	17.468	27.514	0.00	0.00
ATOM	7439	NH2	ARG	X	489	23.759	17.170	28.161	0.00	0.00
ATOM	7440	HH21	ARG	X	489	22.757	17.050	28.178	0.00	0.00
ATOM	7441	HH22	ARG	X	489	24.304	16.322	28.091	0.00	0.00
ATOM	7442	C	ARG	X	489	21.039	19.358	32.189	0.00	0.00
ATOM	7443	O	ARG	X	489	20.627	18.237	31.927	0.00	0.00
ATOM	7444	N	ASP	X	490	21.978	19.587	33.104	0.00	0.00
ATOM	7445	H	ASP	X	490	22.237	20.528	33.362	0.00	0.00
ATOM	7446	CA	ASP	X	490	22.402	18.541	33.995	0.00	0.00
ATOM	7447	HA	ASP	X	490	23.151	19.063	34.591	0.00	0.00
ATOM	7448	CB	ASP	X	490	21.293	18.162	34.971	0.00	0.00
ATOM	7449	HB2	ASP	X	490	20.763	19.017	35.391	0.00	0.00
ATOM	7450	HB3	ASP	X	490	20.529	17.515	34.541	0.00	0.00
ATOM	7451	CG	ASP	X	490	21.822	17.307	36.144	0.00	0.00
ATOM	7452	OD1	ASP	X	490	21.415	16.111	36.193	0.00	0.00
ATOM	7453	OD2	ASP	X	490	22.656	17.771	36.980	0.00	0.00
ATOM	7454	C	ASP	X	490	23.047	17.314	33.359	0.00	0.00
ATOM	7455	O	ASP	X	490	22.508	16.190	33.358	0.00	0.00
ATOM	7456	N	PRO	X	491	24.271	17.581	32.866	0.00	0.00
ATOM	7457	CD	PRO	X	491	24.799	18.885	32.602	0.00	0.00
ATOM	7458	HD2	PRO	X	491	24.853	19.591	33.431	0.00	0.00
ATOM	7459	HD3	PRO	X	491	24.245	19.374	31.802	0.00	0.00
ATOM	7460	CG	PRO	X	491	26.244	18.701	31.999	0.00	0.00
ATOM	7461	HG2	PRO	X	491	26.907	18.644	32.862	0.00	0.00
ATOM	7462	HG3	PRO	X	491	26.615	19.513	31.374	0.00	0.00
ATOM	7463	CB	PRO	X	491	26.123	17.274	31.332	0.00	0.00
ATOM	7464	HB2	PRO	X	491	27.039	16.683	31.352	0.00	0.00
ATOM	7465	HB3	PRO	X	491	25.735	17.351	30.316	0.00	0.00
ATOM	7466	CA	PRO	X	491	25.035	16.562	32.227	0.00	0.00
ATOM	7467	HA	PRO	X	491	24.404	15.919	31.613	0.00	0.00
ATOM	7468	C	PRO	X	491	25.845	15.723	33.221	0.00	0.00
ATOM	7469	O	PRO	X	491	26.100	16.143	34.353	0.00	0.00
ATOM	7470	N	LYS	X	492	26.233	14.514	32.820	0.00	0.00
ATOM	7471	H	LYS	X	492	25.927	14.174	31.919	0.00	0.00
ATOM	7472	CA	LYS	X	492	27.046	13.521	33.598	0.00	0.00
ATOM	7473	HA	LYS	X	492	26.612	13.504	34.597	0.00	0.00
ATOM	7474	CB	LYS	X	492	26.800	12.111	33.045	0.00	0.00
ATOM	7475	HB2	LYS	X	492	26.990	11.377	33.829	0.00	0.00
ATOM	7476	HB3	LYS	X	492	25.742	11.909	32.877	0.00	0.00
ATOM	7477	CG	LYS	X	492	27.548	11.919	31.713	0.00	0.00
ATOM	7478	HG2	LYS	X	492	27.113	12.611	30.993	0.00	0.00
ATOM	7479	HG3	LYS	X	492	28.563	12.296	31.841	0.00	0.00
ATOM	7480	CD	LYS	X	492	27.554	10.404	31.297	0.00	0.00
ATOM	7481	HD2	LYS	X	492	26.568	10.010	31.542	0.00	0.00
ATOM	7482	HD3	LYS	X	492	27.885	10.305	30.263	0.00	0.00
ATOM	7483	CE	LYS	X	492	28.554	9.610	32.121	0.00	0.00
ATOM	7484	HE2	LYS	X	492	28.364	9.740	33.186	0.00	0.00
ATOM	7485	HE3	LYS	X	492	28.341	8.546	32.014	0.00	0.00
ATOM	7486	NZ	LYS	X	492	29.969	9.925	31.857	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	30.203	10.899	31.734	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	30.583	9.567	32.575	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	30.319	9.511	31.004	0.00	0.00
ATOM	7490	C	LYS	X	492	28.536	13.754	33.920	0.00	0.00
ATOM	7491	O	LYS	X	492	29.070	12.934	34.754	0.00	0.00
ATOM	7492	N	ALA	X	493	29.161	14.783	33.419	0.00	0.00
ATOM	7493	H	ALA	X	493	28.602	15.347	32.794	0.00	0.00
ATOM	7494	CA	ALA	X	493	30.405	15.319	33.915	0.00	0.00
ATOM	7495	HA	ALA	X	493	31.074	14.477	33.739	0.00	0.00

ATOM	7496	CB	ALA	X	493	30.889	16.416	32.923	0.00	0.00
ATOM	7497	HB1	ALA	X	493	30.216	17.273	32.956	0.00	0.00
ATOM	7498	HB2	ALA	X	493	30.878	16.086	31.884	0.00	0.00
ATOM	7499	HB3	ALA	X	493	31.850	16.850	33.198	0.00	0.00
ATOM	7500	C	ALA	X	493	30.330	15.698	35.366	0.00	0.00
ATOM	7501	O	ALA	X	493	29.239	16.098	35.791	0.00	0.00
ATOM	7502	N	PRO	X	494	31.478	15.630	36.133	0.00	0.00
ATOM	7503	CD	PRO	X	494	32.768	15.109	35.714	0.00	0.00
ATOM	7504	HD2	PRO	X	494	32.988	15.495	34.719	0.00	0.00
ATOM	7505	HD3	PRO	X	494	32.765	14.020	35.740	0.00	0.00
ATOM	7506	CG	PRO	X	494	33.717	15.766	36.695	0.00	0.00
ATOM	7507	HG2	PRO	X	494	33.964	16.777	36.371	0.00	0.00
ATOM	7508	HG3	PRO	X	494	34.525	15.046	36.825	0.00	0.00
ATOM	7509	CB	PRO	X	494	32.976	15.716	38.010	0.00	0.00
ATOM	7510	HB2	PRO	X	494	33.324	16.344	38.830	0.00	0.00
ATOM	7511	HB3	PRO	X	494	32.947	14.697	38.396	0.00	0.00
ATOM	7512	CA	PRO	X	494	31.564	15.967	37.582	0.00	0.00
ATOM	7513	HA	PRO	X	494	30.876	15.287	38.085	0.00	0.00
ATOM	7514	C	PRO	X	494	31.272	17.494	37.763	0.00	0.00
ATOM	7515	O	PRO	X	494	31.602	18.249	36.789	0.00	0.00
ATOM	7516	N	GLN	X	495	30.788	17.994	38.913	0.00	0.00
ATOM	7517	H	GLN	X	495	30.438	17.438	39.680	0.00	0.00
ATOM	7518	CA	GLN	X	495	30.452	19.470	38.948	0.00	0.00
ATOM	7519	HA	GLN	X	495	30.899	19.953	38.078	0.00	0.00
ATOM	7520	CB	GLN	X	495	28.935	19.759	38.867	0.00	0.00
ATOM	7521	HB2	GLN	X	495	28.629	19.218	39.763	0.00	0.00
ATOM	7522	HB3	GLN	X	495	28.710	20.817	39.006	0.00	0.00
ATOM	7523	CG	GLN	X	495	28.230	19.286	37.666	0.00	0.00
ATOM	7524	HG2	GLN	X	495	28.169	18.199	37.605	0.00	0.00
ATOM	7525	HG3	GLN	X	495	27.189	19.608	37.694	0.00	0.00
ATOM	7526	CD	GLN	X	495	28.938	19.788	36.333	0.00	0.00
ATOM	7527	OE1	GLN	X	495	29.313	20.951	36.167	0.00	0.00
ATOM	7528	NE2	GLN	X	495	28.982	19.007	35.252	0.00	0.00
ATOM	7529	HE21	GLN	X	495	29.116	19.427	34.343	0.00	0.00
ATOM	7530	HE22	GLN	X	495	28.623	18.063	35.255	0.00	0.00
ATOM	7531	C	GLN	X	495	31.087	20.164	40.191	0.00	0.00
ATOM	7532	O	GLN	X	495	31.474	19.568	41.226	0.00	0.00
ATOM	7533	N	TRP	X	496	31.252	21.462	40.163	0.00	0.00
ATOM	7534	H	TRP	X	496	31.021	21.955	39.313	0.00	0.00
ATOM	7535	CA	TRP	X	496	31.940	22.288	41.168	0.00	0.00
ATOM	7536	HA	TRP	X	496	32.881	21.820	41.454	0.00	0.00
ATOM	7537	CB	TRP	X	496	32.568	23.504	40.444	0.00	0.00
ATOM	7538	HB2	TRP	X	496	33.257	23.055	39.729	0.00	0.00
ATOM	7539	HB3	TRP	X	496	31.808	23.944	39.798	0.00	0.00
ATOM	7540	CG	TRP	X	496	33.284	24.618	41.141	0.00	0.00
ATOM	7541	CD1	TRP	X	496	33.589	24.630	42.461	0.00	0.00
ATOM	7542	HD1	TRP	X	496	33.248	23.937	43.215	0.00	0.00
ATOM	7543	NE1	TRP	X	496	34.085	25.867	42.769	0.00	0.00
ATOM	7544	HE1	TRP	X	496	34.169	26.275	43.689	0.00	0.00
ATOM	7545	CE2	TRP	X	496	34.390	26.587	41.612	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	35.122	27.749	41.433	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	35.496	28.231	42.324	0.00	0.00
ATOM	7548	CH2	TRP	X	496	35.267	28.258	40.123	0.00	0.00
ATOM	7549	HH2	TRP	X	496	35.692	29.227	39.905	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	34.854	27.442	39.032	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	35.005	27.826	38.034	0.00	0.00
ATOM	7552	CE3	TRP	X	496	34.325	26.150	39.228	0.00	0.00
ATOM	7553	HE3	TRP	X	496	34.016	25.529	38.400	0.00	0.00
ATOM	7554	CD2	TRP	X	496	33.961	25.786	40.535	0.00	0.00
ATOM	7555	C	TRP	X	496	31.055	22.597	42.364	0.00	0.00
ATOM	7556	O	TRP	X	496	30.036	23.345	42.129	0.00	0.00
ATOM	7557	N	PRO	X	497	31.320	22.011	43.573	0.00	0.00
ATOM	7558	CD	PRO	X	497	32.401	21.169	43.948	0.00	0.00
ATOM	7559	HD2	PRO	X	497	33.360	21.558	43.606	0.00	0.00
ATOM	7560	HD3	PRO	X	497	32.222	20.142	43.631	0.00	0.00
ATOM	7561	CG	PRO	X	497	32.428	21.167	45.550	0.00	0.00
ATOM	7562	HG2	PRO	X	497	32.983	22.001	45.980	0.00	0.00

ATOM	7563	HG3	PRO	X	497	32.922	20.316	46.018	0.00	0.00
ATOM	7564	CB	PRO	X	497	30.977	21.397	45.880	0.00	0.00
ATOM	7565	HB2	PRO	X	497	30.724	21.813	46.855	0.00	0.00
ATOM	7566	HB3	PRO	X	497	30.470	20.451	45.690	0.00	0.00
ATOM	7567	CA	PRO	X	497	30.468	22.295	44.741	0.00	0.00
ATOM	7568	HA	PRO	X	497	29.447	22.004	44.492	0.00	0.00
ATOM	7569	C	PRO	X	497	30.509	23.782	45.120	0.00	0.00
ATOM	7570	O	PRO	X	497	31.565	24.368	45.135	0.00	0.00
ATOM	7571	N	PRO	X	498	29.427	24.312	45.649	0.00	0.00
ATOM	7572	CD	PRO	X	498	28.104	23.613	45.686	0.00	0.00
ATOM	7573	HD2	PRO	X	498	28.090	22.611	46.116	0.00	0.00
ATOM	7574	HD3	PRO	X	498	27.789	23.625	44.643	0.00	0.00
ATOM	7575	CG	PRO	X	498	27.264	24.588	46.548	0.00	0.00
ATOM	7576	HG2	PRO	X	498	27.264	24.423	47.626	0.00	0.00
ATOM	7577	HG3	PRO	X	498	26.187	24.594	46.380	0.00	0.00
ATOM	7578	CB	PRO	X	498	27.872	25.970	46.301	0.00	0.00
ATOM	7579	HB2	PRO	X	498	27.593	26.587	47.154	0.00	0.00
ATOM	7580	HB3	PRO	X	498	27.636	26.411	45.333	0.00	0.00
ATOM	7581	CA	PRO	X	498	29.412	25.612	46.287	0.00	0.00
ATOM	7582	HA	PRO	X	498	29.811	26.514	45.823	0.00	0.00
ATOM	7583	C	PRO	X	498	30.021	25.536	47.719	0.00	0.00
ATOM	7584	O	PRO	X	498	29.682	24.672	48.538	0.00	0.00
ATOM	7585	N	TYR	X	499	30.967	26.464	47.951	0.00	0.00
ATOM	7586	H	TYR	X	499	31.195	27.120	47.217	0.00	0.00
ATOM	7587	CA	TYR	X	499	31.669	26.588	49.231	0.00	0.00
ATOM	7588	HA	TYR	X	499	32.171	25.648	49.460	0.00	0.00
ATOM	7589	CB	TYR	X	499	32.889	27.449	49.023	0.00	0.00
ATOM	7590	HB2	TYR	X	499	33.573	27.174	48.220	0.00	0.00
ATOM	7591	HB3	TYR	X	499	32.584	28.403	48.593	0.00	0.00
ATOM	7592	CG	TYR	X	499	33.704	27.554	50.336	0.00	0.00
ATOM	7593	CD1	TYR	X	499	33.431	28.563	51.294	0.00	0.00
ATOM	7594	HD1	TYR	X	499	32.696	29.311	51.035	0.00	0.00
ATOM	7595	CE1	TYR	X	499	34.225	28.770	52.402	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.976	29.549	53.108	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.354	27.960	52.618	0.00	0.00
ATOM	7598	OH	TYR	X	499	36.128	28.133	53.779	0.00	0.00
ATOM	7599	HH	TYR	X	499	35.922	28.897	54.322	0.00	0.00
ATOM	7600	CE2	TYR	X	499	35.605	26.897	51.723	0.00	0.00
ATOM	7601	HE2	TYR	X	499	36.454	26.270	51.954	0.00	0.00
ATOM	7602	CD2	TYR	X	499	34.761	26.669	50.672	0.00	0.00
ATOM	7603	HD2	TYR	X	499	34.967	25.791	50.077	0.00	0.00
ATOM	7604	C	TYR	X	499	30.741	27.038	50.418	0.00	0.00
ATOM	7605	O	TYR	X	499	29.849	27.832	50.233	0.00	0.00
ATOM	7606	N	THR	X	500	30.944	26.484	51.619	0.00	0.00
ATOM	7607	H	THR	X	500	31.681	25.793	51.617	0.00	0.00
ATOM	7608	CA	THR	X	500	30.245	26.667	52.909	0.00	0.00
ATOM	7609	HA	THR	X	500	29.854	27.684	52.927	0.00	0.00
ATOM	7610	CB	THR	X	500	29.122	25.611	53.186	0.00	0.00
ATOM	7611	HB	THR	X	500	28.741	25.669	54.206	0.00	0.00
ATOM	7612	CG2	THR	X	500	27.998	25.637	52.155	0.00	0.00
ATOM	7613	HG21	THR	X	500	27.666	26.662	51.987	0.00	0.00
ATOM	7614	HG22	THR	X	500	27.187	25.067	52.607	0.00	0.00
ATOM	7615	HG23	THR	X	500	28.379	25.207	51.229	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.613	24.311	53.130	0.00	0.00
ATOM	7617	HG1	THR	X	500	29.153	23.690	53.700	0.00	0.00
ATOM	7618	C	THR	X	500	31.226	26.621	54.079	0.00	0.00
ATOM	7619	O	THR	X	500	32.311	26.084	54.052	0.00	0.00
ATOM	7620	N	ALA	X	501	30.904	27.290	55.235	0.00	0.00
ATOM	7621	H	ALA	X	501	30.025	27.781	55.311	0.00	0.00
ATOM	7622	CA	ALA	X	501	31.667	27.405	56.503	0.00	0.00
ATOM	7623	HA	ALA	X	501	32.644	27.748	56.164	0.00	0.00
ATOM	7624	CB	ALA	X	501	30.881	28.394	57.351	0.00	0.00
ATOM	7625	HB1	ALA	X	501	29.873	28.033	57.554	0.00	0.00
ATOM	7626	HB2	ALA	X	501	30.792	29.396	56.931	0.00	0.00
ATOM	7627	HB3	ALA	X	501	31.414	28.436	58.301	0.00	0.00
ATOM	7628	C	ALA	X	501	31.931	26.102	57.298	0.00	0.00
ATOM	7629	O	ALA	X	501	32.958	26.063	57.961	0.00	0.00

ATOM	7630	N	GLY	X	502	31.075	25.112	57.086	0.00	0.00
ATOM	7631	H	GLY	X	502	30.293	25.287	56.471	0.00	0.00
ATOM	7632	CA	GLY	X	502	31.189	23.720	57.636	0.00	0.00
ATOM	7633	HA2	GLY	X	502	31.605	23.726	58.643	0.00	0.00
ATOM	7634	HA3	GLY	X	502	30.192	23.280	57.681	0.00	0.00
ATOM	7635	C	GLY	X	502	32.223	22.828	56.918	0.00	0.00
ATOM	7636	O	GLY	X	502	33.361	22.643	57.353	0.00	0.00
ATOM	7637	N	ALA	X	503	31.825	22.344	55.748	0.00	0.00
ATOM	7638	H	ALA	X	503	30.844	22.437	55.525	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.539	21.428	54.875	0.00	0.00
ATOM	7640	HA	ALA	X	503	32.895	20.528	55.377	0.00	0.00
ATOM	7641	CB	ALA	X	503	31.546	21.001	53.860	0.00	0.00
ATOM	7642	HB1	ALA	X	503	31.967	20.657	52.915	0.00	0.00
ATOM	7643	HB2	ALA	X	503	30.981	21.856	53.490	0.00	0.00
ATOM	7644	HB3	ALA	X	503	30.880	20.284	54.341	0.00	0.00
ATOM	7645	C	ALA	X	503	33.808	22.028	54.125	0.00	0.00
ATOM	7646	O	ALA	X	503	34.815	21.320	53.979	0.00	0.00
ATOM	7647	N	GLN	X	504	33.726	23.316	53.804	0.00	0.00
ATOM	7648	H	GLN	X	504	32.829	23.733	54.005	0.00	0.00
ATOM	7649	CA	GLN	X	504	34.861	23.990	53.138	0.00	0.00
ATOM	7650	HA	GLN	X	504	34.490	24.976	52.857	0.00	0.00
ATOM	7651	CB	GLN	X	504	35.924	24.341	54.159	0.00	0.00
ATOM	7652	HB2	GLN	X	504	36.405	23.472	54.609	0.00	0.00
ATOM	7653	HB3	GLN	X	504	36.691	24.910	53.634	0.00	0.00
ATOM	7654	CG	GLN	X	504	35.390	25.185	55.365	0.00	0.00
ATOM	7655	HG2	GLN	X	504	35.237	26.222	55.066	0.00	0.00
ATOM	7656	HG3	GLN	X	504	34.424	24.796	55.687	0.00	0.00
ATOM	7657	CD	GLN	X	504	36.326	25.252	56.490	0.00	0.00
ATOM	7658	OE1	GLN	X	504	37.460	25.661	56.368	0.00	0.00
ATOM	7659	NE2	GLN	X	504	35.952	24.858	57.671	0.00	0.00
ATOM	7660	HE21	GLN	X	504	36.501	25.197	58.448	0.00	0.00
ATOM	7661	HE22	GLN	X	504	35.138	24.315	57.922	0.00	0.00
ATOM	7662	C	GLN	X	504	35.399	23.345	51.850	0.00	0.00
ATOM	7663	O	GLN	X	504	36.602	23.140	51.739	0.00	0.00
ATOM	7664	N	GLN	X	505	34.545	22.991	50.882	0.00	0.00
ATOM	7665	H	GLN	X	505	33.539	23.080	50.895	0.00	0.00
ATOM	7666	CA	GLN	X	505	35.024	22.301	49.679	0.00	0.00
ATOM	7667	HA	GLN	X	505	35.908	21.735	49.971	0.00	0.00
ATOM	7668	CB	GLN	X	505	33.976	21.346	49.142	0.00	0.00
ATOM	7669	HB2	GLN	X	505	33.089	21.966	49.015	0.00	0.00
ATOM	7670	HB3	GLN	X	505	34.447	21.007	48.219	0.00	0.00
ATOM	7671	CG	GLN	X	505	33.713	20.110	50.054	0.00	0.00
ATOM	7672	HG2	GLN	X	505	34.695	19.693	50.275	0.00	0.00
ATOM	7673	HG3	GLN	X	505	33.209	20.349	50.991	0.00	0.00
ATOM	7674	CD	GLN	X	505	32.792	19.138	49.331	0.00	0.00
ATOM	7675	OE1	GLN	X	505	31.563	19.420	49.165	0.00	0.00
ATOM	7676	NE2	GLN	X	505	33.246	17.933	48.985	0.00	0.00
ATOM	7677	HE21	GLN	X	505	32.583	17.285	48.585	0.00	0.00
ATOM	7678	HE22	GLN	X	505	34.211	17.643	49.058	0.00	0.00
ATOM	7679	C	GLN	X	505	35.396	23.197	48.450	0.00	0.00
ATOM	7680	O	GLN	X	505	34.712	24.185	48.247	0.00	0.00
ATOM	7681	N	TYR	X	506	36.349	22.836	47.640	0.00	0.00
ATOM	7682	H	TYR	X	506	36.838	21.954	47.704	0.00	0.00
ATOM	7683	CA	TYR	X	506	37.001	23.672	46.545	0.00	0.00
ATOM	7684	HA	TYR	X	506	36.248	24.348	46.140	0.00	0.00
ATOM	7685	CB	TYR	X	506	38.069	24.588	47.149	0.00	0.00
ATOM	7686	HB2	TYR	X	506	38.269	25.350	46.395	0.00	0.00
ATOM	7687	HB3	TYR	X	506	37.658	25.163	47.979	0.00	0.00
ATOM	7688	CG	TYR	X	506	39.297	23.818	47.671	0.00	0.00
ATOM	7689	CD1	TYR	X	506	39.293	23.305	48.968	0.00	0.00
ATOM	7690	HD1	TYR	X	506	38.476	23.545	49.632	0.00	0.00
ATOM	7691	CE1	TYR	X	506	40.403	22.638	49.434	0.00	0.00
ATOM	7692	HE1	TYR	X	506	40.430	22.207	50.423	0.00	0.00
ATOM	7693	CZ	TYR	X	506	41.533	22.388	48.522	0.00	0.00
ATOM	7694	OH	TYR	X	506	42.664	21.660	48.903	0.00	0.00
ATOM	7695	HH	TYR	X	506	42.667	21.286	49.788	0.00	0.00
ATOM	7696	CE2	TYR	X	506	41.499	22.802	47.193	0.00	0.00

ATOM	7697	HE2	TYR	X	506	42.322	22.651	46.510	0.00	0.00
ATOM	7698	CD2	TYR	X	506	40.364	23.553	46.769	0.00	0.00
ATOM	7699	HD2	TYR	X	506	40.257	24.016	45.799	0.00	0.00
ATOM	7700	C	TYR	X	506	37.457	22.725	45.407	0.00	0.00
ATOM	7701	O	TYR	X	506	37.914	21.622	45.631	0.00	0.00
ATOM	7702	N	VAL	X	507	37.296	23.223	44.138	0.00	0.00
ATOM	7703	H	VAL	X	507	37.004	24.184	44.040	0.00	0.00
ATOM	7704	CA	VAL	X	507	37.871	22.519	42.988	0.00	0.00
ATOM	7705	HA	VAL	X	507	37.755	21.444	43.129	0.00	0.00
ATOM	7706	CB	VAL	X	507	37.117	22.547	41.653	0.00	0.00
ATOM	7707	HB	VAL	X	507	37.759	22.082	40.906	0.00	0.00
ATOM	7708	CG1	VAL	X	507	35.872	21.755	41.662	0.00	0.00
ATOM	7709	HG11	VAL	X	507	35.298	22.028	42.548	0.00	0.00
ATOM	7710	HG12	VAL	X	507	35.105	22.090	40.964	0.00	0.00
ATOM	7711	HG13	VAL	X	507	36.068	20.683	41.654	0.00	0.00
ATOM	7712	CG2	VAL	X	507	36.865	24.004	41.303	0.00	0.00
ATOM	7713	HG21	VAL	X	507	37.781	24.592	41.364	0.00	0.00
ATOM	7714	HG22	VAL	X	507	36.183	24.444	42.031	0.00	0.00
ATOM	7715	HG23	VAL	X	507	36.432	24.175	40.317	0.00	0.00
ATOM	7716	C	VAL	X	507	39.396	22.758	42.748	0.00	0.00
ATOM	7717	O	VAL	X	507	39.890	23.875	42.798	0.00	0.00
ATOM	7718	N	SER	X	508	40.081	21.836	42.134	0.00	0.00
ATOM	7719	H	SER	X	508	39.567	20.970	42.052	0.00	0.00
ATOM	7720	CA	SER	X	508	41.490	21.716	41.873	0.00	0.00
ATOM	7721	HA	SER	X	508	41.936	22.572	42.380	0.00	0.00
ATOM	7722	CB	SER	X	508	42.062	20.504	42.625	0.00	0.00
ATOM	7723	HB2	SER	X	508	41.770	19.601	42.090	0.00	0.00
ATOM	7724	HB3	SER	X	508	43.141	20.656	42.622	0.00	0.00
ATOM	7725	OG	SER	X	508	41.550	20.342	43.975	0.00	0.00
ATOM	7726	HG	SER	X	508	40.649	20.011	43.947	0.00	0.00
ATOM	7727	C	SER	X	508	41.702	21.630	40.406	0.00	0.00
ATOM	7728	O	SER	X	508	41.449	20.569	39.843	0.00	0.00
ATOM	7729	N	LEU	X	509	42.081	22.804	39.836	0.00	0.00
ATOM	7730	H	LEU	X	509	42.139	23.634	40.409	0.00	0.00
ATOM	7731	CA	LEU	X	509	42.079	23.046	38.418	0.00	0.00
ATOM	7732	HA	LEU	X	509	41.387	22.255	38.127	0.00	0.00
ATOM	7733	CB	LEU	X	509	41.448	24.327	38.083	0.00	0.00
ATOM	7734	HB2	LEU	X	509	42.173	25.092	38.362	0.00	0.00
ATOM	7735	HB3	LEU	X	509	41.287	24.556	37.029	0.00	0.00
ATOM	7736	CG	LEU	X	509	40.113	24.687	38.737	0.00	0.00
ATOM	7737	HG	LEU	X	509	40.287	24.790	39.808	0.00	0.00
ATOM	7738	CD1	LEU	X	509	39.634	26.062	38.240	0.00	0.00
ATOM	7739	HD11	LEU	X	509	40.393	26.844	38.209	0.00	0.00
ATOM	7740	HD12	LEU	X	509	38.724	26.455	38.693	0.00	0.00
ATOM	7741	HD13	LEU	X	509	39.268	26.012	37.214	0.00	0.00
ATOM	7742	CD2	LEU	X	509	39.013	23.637	38.394	0.00	0.00
ATOM	7743	HD21	LEU	X	509	39.229	22.698	38.905	0.00	0.00
ATOM	7744	HD22	LEU	X	509	38.025	23.904	38.771	0.00	0.00
ATOM	7745	HD23	LEU	X	509	38.983	23.447	37.321	0.00	0.00
ATOM	7746	C	LEU	X	509	43.482	22.741	37.717	0.00	0.00
ATOM	7747	O	LEU	X	509	44.457	23.463	38.042	0.00	0.00
ATOM	7748	N	ASP	X	510	43.534	21.782	36.806	0.00	0.00
ATOM	7749	H	ASP	X	510	42.644	21.375	36.558	0.00	0.00
ATOM	7750	CA	ASP	X	510	44.699	21.170	36.237	0.00	0.00
ATOM	7751	HA	ASP	X	510	45.372	21.838	35.699	0.00	0.00
ATOM	7752	CB	ASP	X	510	45.537	20.454	37.374	0.00	0.00
ATOM	7753	HB2	ASP	X	510	45.916	21.286	37.968	0.00	0.00
ATOM	7754	HB3	ASP	X	510	44.982	19.934	38.155	0.00	0.00
ATOM	7755	CG	ASP	X	510	46.695	19.507	36.901	0.00	0.00
ATOM	7756	OD1	ASP	X	510	47.770	19.962	36.457	0.00	0.00
ATOM	7757	OD2	ASP	X	510	46.466	18.292	36.826	0.00	0.00
ATOM	7758	C	ASP	X	510	44.131	20.150	35.141	0.00	0.00
ATOM	7759	O	ASP	X	510	42.928	20.144	34.933	0.00	0.00
ATOM	7760	N	LEU	X	511	45.051	19.488	34.408	0.00	0.00
ATOM	7761	H	LEU	X	511	46.003	19.616	34.718	0.00	0.00
ATOM	7762	CA	LEU	X	511	44.768	18.685	33.222	0.00	0.00
ATOM	7763	HA	LEU	X	511	44.050	19.211	32.593	0.00	0.00

ATOM	7764	CB	LEU	X	511	46.063	18.506	32.412	0.00	0.00
ATOM	7765	HB2	LEU	X	511	46.597	17.751	32.988	0.00	0.00
ATOM	7766	HB3	LEU	X	511	45.777	17.945	31.522	0.00	0.00
ATOM	7767	CG	LEU	X	511	46.867	19.695	32.031	0.00	0.00
ATOM	7768	HG	LEU	X	511	47.170	20.190	32.953	0.00	0.00
ATOM	7769	CD1	LEU	X	511	48.224	19.360	31.379	0.00	0.00
ATOM	7770	HD11	LEU	X	511	48.557	20.168	30.727	0.00	0.00
ATOM	7771	HD12	LEU	X	511	47.949	18.532	30.726	0.00	0.00
ATOM	7772	HD13	LEU	X	511	48.990	19.189	32.135	0.00	0.00
ATOM	7773	CD2	LEU	X	511	46.054	20.640	31.168	0.00	0.00
ATOM	7774	HD21	LEU	X	511	45.960	20.165	30.191	0.00	0.00
ATOM	7775	HD22	LEU	X	511	45.129	20.896	31.684	0.00	0.00
ATOM	7776	HD23	LEU	X	511	46.628	21.566	31.118	0.00	0.00
ATOM	7777	C	LEU	X	511	44.091	17.318	33.630	0.00	0.00
ATOM	7778	O	LEU	X	511	43.421	16.692	32.760	0.00	0.00
ATOM	7779	N	ARG	X	512	44.225	16.925	34.905	0.00	0.00
ATOM	7780	H	ARG	X	512	44.741	17.533	35.526	0.00	0.00
ATOM	7781	CA	ARG	X	512	43.335	15.927	35.554	0.00	0.00
ATOM	7782	HA	ARG	X	512	43.611	14.991	35.068	0.00	0.00
ATOM	7783	CB	ARG	X	512	43.762	15.784	37.034	0.00	0.00
ATOM	7784	HB2	ARG	X	512	43.682	16.735	37.560	0.00	0.00
ATOM	7785	HB3	ARG	X	512	43.085	15.101	37.547	0.00	0.00
ATOM	7786	CG	ARG	X	512	45.256	15.357	37.087	0.00	0.00
ATOM	7787	HG2	ARG	X	512	45.406	14.363	36.665	0.00	0.00
ATOM	7788	HG3	ARG	X	512	45.769	16.105	36.483	0.00	0.00
ATOM	7789	CD	ARG	X	512	45.901	15.373	38.454	0.00	0.00
ATOM	7790	HD2	ARG	X	512	46.961	15.131	38.374	0.00	0.00
ATOM	7791	HD3	ARG	X	512	45.999	16.347	38.932	0.00	0.00
ATOM	7792	NE	ARG	X	512	45.192	14.377	39.360	0.00	0.00
ATOM	7793	HE	ARG	X	512	45.304	13.459	38.955	0.00	0.00
ATOM	7794	CZ	ARG	X	512	44.433	14.559	40.419	0.00	0.00
ATOM	7795	NH1	ARG	X	512	44.155	15.786	40.952	0.00	0.00
ATOM	7796	HH11	ARG	X	512	44.495	16.612	40.481	0.00	0.00
ATOM	7797	HH12	ARG	X	512	43.508	15.892	41.720	0.00	0.00
ATOM	7798	NH2	ARG	X	512	43.944	13.543	41.082	0.00	0.00
ATOM	7799	HH21	ARG	X	512	44.137	12.597	40.783	0.00	0.00
ATOM	7800	HH22	ARG	X	512	43.436	13.674	41.945	0.00	0.00
ATOM	7801	C	ARG	X	512	41.801	16.365	35.425	0.00	0.00
ATOM	7802	O	ARG	X	512	41.472	17.531	35.372	0.00	0.00
ATOM	7803	N	PRO	X	513	40.927	15.311	35.340	0.00	0.00
ATOM	7804	CD	PRO	X	513	41.226	13.915	34.936	0.00	0.00
ATOM	7805	HD2	PRO	X	513	41.859	13.540	35.740	0.00	0.00
ATOM	7806	HD3	PRO	X	513	41.869	13.854	34.058	0.00	0.00
ATOM	7807	CG	PRO	X	513	39.875	13.169	34.673	0.00	0.00
ATOM	7808	HG2	PRO	X	513	40.031	12.147	35.016	0.00	0.00
ATOM	7809	HG3	PRO	X	513	39.520	13.172	33.642	0.00	0.00
ATOM	7810	CB	PRO	X	513	38.861	13.967	35.529	0.00	0.00
ATOM	7811	HB2	PRO	X	513	38.908	13.661	36.574	0.00	0.00
ATOM	7812	HB3	PRO	X	513	37.846	13.839	35.152	0.00	0.00
ATOM	7813	CA	PRO	X	513	39.507	15.375	35.498	0.00	0.00
ATOM	7814	HA	PRO	X	513	39.124	15.977	34.674	0.00	0.00
ATOM	7815	C	PRO	X	513	39.092	16.189	36.742	0.00	0.00
ATOM	7816	O	PRO	X	513	39.780	16.048	37.741	0.00	0.00
ATOM	7817	N	LEU	X	514	38.053	17.026	36.704	0.00	0.00
ATOM	7818	H	LEU	X	514	37.461	17.018	35.886	0.00	0.00
ATOM	7819	CA	LEU	X	514	37.639	17.854	37.843	0.00	0.00
ATOM	7820	HA	LEU	X	514	38.297	18.710	37.990	0.00	0.00
ATOM	7821	CB	LEU	X	514	36.334	18.505	37.398	0.00	0.00
ATOM	7822	HB2	LEU	X	514	36.378	18.788	36.346	0.00	0.00
ATOM	7823	HB3	LEU	X	514	35.556	17.741	37.402	0.00	0.00
ATOM	7824	CG	LEU	X	514	35.887	19.697	38.209	0.00	0.00
ATOM	7825	HG	LEU	X	514	36.084	19.579	39.274	0.00	0.00
ATOM	7826	CD1	LEU	X	514	36.716	20.940	37.900	0.00	0.00
ATOM	7827	HD11	LEU	X	514	36.664	21.174	36.837	0.00	0.00
ATOM	7828	HD12	LEU	X	514	37.769	20.793	38.142	0.00	0.00
ATOM	7829	HD13	LEU	X	514	36.396	21.735	38.573	0.00	0.00
ATOM	7830	CD2	LEU	X	514	34.381	19.940	37.988	0.00	0.00

ATOM	7831	HD21	LEU	X	514	33.776	19.073	38.254	0.00	0.00
ATOM	7832	HD22	LEU	X	514	33.801	20.586	38.648	0.00	0.00
ATOM	7833	HD23	LEU	X	514	34.183	20.021	36.919	0.00	0.00
ATOM	7834	C	LEU	X	514	37.573	17.168	39.157	0.00	0.00
ATOM	7835	O	LEU	X	514	36.779	16.244	39.290	0.00	0.00
ATOM	7836	N	GLU	X	515	38.492	17.491	40.035	0.00	0.00
ATOM	7837	H	GLU	X	515	39.072	18.241	39.685	0.00	0.00
ATOM	7838	CA	GLU	X	515	38.760	16.894	41.392	0.00	0.00
ATOM	7839	HA	GLU	X	515	38.032	16.087	41.466	0.00	0.00
ATOM	7840	CB	GLU	X	515	40.218	16.496	41.581	0.00	0.00
ATOM	7841	HB2	GLU	X	515	40.504	15.775	40.816	0.00	0.00
ATOM	7842	HB3	GLU	X	515	40.893	17.352	41.545	0.00	0.00
ATOM	7843	CG	GLU	X	515	40.352	15.722	42.917	0.00	0.00
ATOM	7844	HG2	GLU	X	515	39.951	16.243	43.786	0.00	0.00
ATOM	7845	HG3	GLU	X	515	39.857	14.781	42.677	0.00	0.00
ATOM	7846	CD	GLU	X	515	41.781	15.383	43.211	0.00	0.00
ATOM	7847	OE1	GLU	X	515	42.130	14.186	43.114	0.00	0.00
ATOM	7848	OE2	GLU	X	515	42.616	16.298	43.249	0.00	0.00
ATOM	7849	C	GLU	X	515	38.304	17.959	42.420	0.00	0.00
ATOM	7850	O	GLU	X	515	38.458	19.196	42.195	0.00	0.00
ATOM	7851	N	VAL	X	516	37.830	17.579	43.589	0.00	0.00
ATOM	7852	H	VAL	X	516	37.519	16.626	43.710	0.00	0.00
ATOM	7853	CA	VAL	X	516	37.438	18.471	44.698	0.00	0.00
ATOM	7854	HA	VAL	X	516	37.567	19.517	44.420	0.00	0.00
ATOM	7855	CB	VAL	X	516	35.956	18.267	45.086	0.00	0.00
ATOM	7856	HB	VAL	X	516	35.888	17.189	45.233	0.00	0.00
ATOM	7857	CG1	VAL	X	516	35.524	18.913	46.438	0.00	0.00
ATOM	7858	HG11	VAL	X	516	34.559	18.523	46.760	0.00	0.00
ATOM	7859	HG12	VAL	X	516	36.193	18.703	47.272	0.00	0.00
ATOM	7860	HG13	VAL	X	516	35.476	20.001	46.395	0.00	0.00
ATOM	7861	CG2	VAL	X	516	34.959	18.731	44.048	0.00	0.00
ATOM	7862	HG21	VAL	X	516	35.136	18.327	43.051	0.00	0.00
ATOM	7863	HG22	VAL	X	516	34.996	19.820	44.056	0.00	0.00
ATOM	7864	HG23	VAL	X	516	33.938	18.444	44.298	0.00	0.00
ATOM	7865	C	VAL	X	516	38.363	18.123	45.851	0.00	0.00
ATOM	7866	O	VAL	X	516	38.672	16.933	45.945	0.00	0.00
ATOM	7867	N	ARG	X	517	38.647	19.088	46.707	0.00	0.00
ATOM	7868	H	ARG	X	517	38.320	20.011	46.462	0.00	0.00
ATOM	7869	CA	ARG	X	517	39.328	18.864	47.985	0.00	0.00
ATOM	7870	HA	ARG	X	517	39.243	17.818	48.280	0.00	0.00
ATOM	7871	CB	ARG	X	517	40.821	19.399	47.784	0.00	0.00
ATOM	7872	HB2	ARG	X	517	40.816	20.398	47.348	0.00	0.00
ATOM	7873	HB3	ARG	X	517	41.303	19.395	48.762	0.00	0.00
ATOM	7874	CG	ARG	X	517	41.700	18.448	46.889	0.00	0.00
ATOM	7875	HG2	ARG	X	517	41.827	17.449	47.306	0.00	0.00
ATOM	7876	HG3	ARG	X	517	41.136	18.268	45.974	0.00	0.00
ATOM	7877	CD	ARG	X	517	43.034	19.056	46.584	0.00	0.00
ATOM	7878	HD2	ARG	X	517	42.843	20.102	46.342	0.00	0.00
ATOM	7879	HD3	ARG	X	517	43.637	19.103	47.490	0.00	0.00
ATOM	7880	NE	ARG	X	517	43.638	18.343	45.503	0.00	0.00
ATOM	7881	HE	ARG	X	517	43.029	17.646	45.100	0.00	0.00
ATOM	7882	CZ	ARG	X	517	44.545	18.980	44.668	0.00	0.00
ATOM	7883	NH1	ARG	X	517	45.326	19.960	45.071	0.00	0.00
ATOM	7884	HH11	ARG	X	517	45.429	20.227	46.039	0.00	0.00
ATOM	7885	HH12	ARG	X	517	45.949	20.360	44.384	0.00	0.00
ATOM	7886	NH2	ARG	X	517	44.606	18.573	43.428	0.00	0.00
ATOM	7887	HH21	ARG	X	517	44.066	17.806	43.054	0.00	0.00
ATOM	7888	HH22	ARG	X	517	45.044	19.184	42.755	0.00	0.00
ATOM	7889	C	ARG	X	517	38.601	19.757	48.996	0.00	0.00
ATOM	7890	O	ARG	X	517	37.571	20.308	48.661	0.00	0.00
ATOM	7891	N	ARG	X	518	39.001	19.651	50.268	0.00	0.00
ATOM	7892	H	ARG	X	518	39.762	19.019	50.470	0.00	0.00
ATOM	7893	CA	ARG	X	518	38.164	20.232	51.436	0.00	0.00
ATOM	7894	HA	ARG	X	518	37.557	21.077	51.114	0.00	0.00
ATOM	7895	CB	ARG	X	518	37.140	19.262	51.911	0.00	0.00
ATOM	7896	HB2	ARG	X	518	36.410	19.926	52.372	0.00	0.00
ATOM	7897	HB3	ARG	X	518	36.679	18.920	50.985	0.00	0.00

ATOM	7898	CG	ARG	X	518	37.733	18.214	52.905	0.00	0.00
ATOM	7899	HG2	ARG	X	518	38.585	17.746	52.412	0.00	0.00
ATOM	7900	HG3	ARG	X	518	38.075	18.714	53.811	0.00	0.00
ATOM	7901	CD	ARG	X	518	36.747	17.161	53.283	0.00	0.00
ATOM	7902	HD2	ARG	X	518	36.543	16.518	52.428	0.00	0.00
ATOM	7903	HD3	ARG	X	518	37.201	16.568	54.077	0.00	0.00
ATOM	7904	NE	ARG	X	518	35.459	17.717	53.795	0.00	0.00
ATOM	7905	HE	ARG	X	518	35.554	18.180	54.688	0.00	0.00
ATOM	7906	CZ	ARG	X	518	34.238	17.424	53.455	0.00	0.00
ATOM	7907	NH1	ARG	X	518	33.879	16.750	52.408	0.00	0.00
ATOM	7908	HH11	ARG	X	518	34.531	16.276	51.799	0.00	0.00
ATOM	7909	HH12	ARG	X	518	32.885	16.627	52.272	0.00	0.00
ATOM	7910	NH2	ARG	X	518	33.278	17.792	54.229	0.00	0.00
ATOM	7911	HH21	ARG	X	518	33.509	18.121	55.155	0.00	0.00
ATOM	7912	HH22	ARG	X	518	32.335	17.556	53.957	0.00	0.00
ATOM	7913	C	ARG	X	518	39.065	20.758	52.619	0.00	0.00
ATOM	7914	O	ARG	X	518	40.288	20.528	52.699	0.00	0.00
ATOM	7915	N	GLY	X	519	38.445	21.470	53.491	0.00	0.00
ATOM	7916	H	GLY	X	519	37.460	21.630	53.338	0.00	0.00
ATOM	7917	CA	GLY	X	519	39.158	22.198	54.584	0.00	0.00
ATOM	7918	HA2	GLY	X	519	38.486	22.571	55.357	0.00	0.00
ATOM	7919	HA3	GLY	X	519	39.784	21.594	55.241	0.00	0.00
ATOM	7920	C	GLY	X	519	39.974	23.371	54.025	0.00	0.00
ATOM	7921	O	GLY	X	519	41.187	23.410	54.319	0.00	0.00
ATOM	7922	N	LEU	X	520	39.447	24.150	53.096	0.00	0.00
ATOM	7923	H	LEU	X	520	38.522	23.926	52.758	0.00	0.00
ATOM	7924	CA	LEU	X	520	40.199	25.188	52.353	0.00	0.00
ATOM	7925	HA	LEU	X	520	40.859	24.739	51.611	0.00	0.00
ATOM	7926	CB	LEU	X	520	39.210	26.044	51.601	0.00	0.00
ATOM	7927	HB2	LEU	X	520	38.466	25.485	51.034	0.00	0.00
ATOM	7928	HB3	LEU	X	520	38.525	26.485	52.325	0.00	0.00
ATOM	7929	CG	LEU	X	520	39.773	27.187	50.680	0.00	0.00
ATOM	7930	HG	LEU	X	520	40.400	27.795	51.331	0.00	0.00
ATOM	7931	CD1	LEU	X	520	40.637	26.843	49.456	0.00	0.00
ATOM	7932	HD11	LEU	X	520	41.644	26.558	49.761	0.00	0.00
ATOM	7933	HD12	LEU	X	520	40.867	27.697	48.818	0.00	0.00
ATOM	7934	HD13	LEU	X	520	40.116	26.043	48.931	0.00	0.00
ATOM	7935	CD2	LEU	X	520	38.590	27.933	50.075	0.00	0.00
ATOM	7936	HD21	LEU	X	520	37.884	28.095	50.890	0.00	0.00
ATOM	7937	HD22	LEU	X	520	38.869	28.853	49.561	0.00	0.00
ATOM	7938	HD23	LEU	X	520	38.031	27.236	49.451	0.00	0.00
ATOM	7939	C	LEU	X	520	41.082	25.970	53.332	0.00	0.00
ATOM	7940	O	LEU	X	520	40.554	26.820	54.048	0.00	0.00
ATOM	7941	N	ARG	X	521	42.403	25.682	53.291	0.00	0.00
ATOM	7942	H	ARG	X	521	42.751	24.962	52.674	0.00	0.00
ATOM	7943	CA	ARG	X	521	43.493	26.364	53.966	0.00	0.00
ATOM	7944	HA	ARG	X	521	44.376	25.774	53.718	0.00	0.00
ATOM	7945	CB	ARG	X	521	43.517	27.780	53.260	0.00	0.00
ATOM	7946	HB2	ARG	X	521	43.422	27.657	52.181	0.00	0.00
ATOM	7947	HB3	ARG	X	521	42.710	28.392	53.662	0.00	0.00
ATOM	7948	CG	ARG	X	521	44.780	28.699	53.527	0.00	0.00
ATOM	7949	HG2	ARG	X	521	44.624	29.654	53.025	0.00	0.00
ATOM	7950	HG3	ARG	X	521	44.866	28.970	54.579	0.00	0.00
ATOM	7951	CD	ARG	X	521	46.025	27.908	53.024	0.00	0.00
ATOM	7952	HD2	ARG	X	521	46.104	26.984	53.596	0.00	0.00
ATOM	7953	HD3	ARG	X	521	45.827	27.729	51.967	0.00	0.00
ATOM	7954	NE	ARG	X	521	47.218	28.750	53.130	0.00	0.00
ATOM	7955	HE	ARG	X	521	47.250	29.394	53.907	0.00	0.00
ATOM	7956	CZ	ARG	X	521	48.265	28.615	52.287	0.00	0.00
ATOM	7957	NH1	ARG	X	521	48.221	27.743	51.295	0.00	0.00
ATOM	7958	HH11	ARG	X	521	47.402	27.264	50.947	0.00	0.00
ATOM	7959	HH12	ARG	X	521	49.096	27.733	50.791	0.00	0.00
ATOM	7960	NH2	ARG	X	521	49.338	29.321	52.564	0.00	0.00
ATOM	7961	HH21	ARG	X	521	49.310	29.980	53.329	0.00	0.00
ATOM	7962	HH22	ARG	X	521	50.218	29.205	52.082	0.00	0.00
ATOM	7963	C	ARG	X	521	43.359	26.461	55.531	0.00	0.00
ATOM	7964	O	ARG	X	521	44.267	27.003	56.183	0.00	0.00

ATOM	7965	N	ALA	X	522	42.349	25.759	56.052	0.00	0.00
ATOM	7966	H	ALA	X	522	41.617	25.660	55.364	0.00	0.00
ATOM	7967	CA	ALA	X	522	41.885	25.787	57.434	0.00	0.00
ATOM	7968	HA	ALA	X	522	41.487	26.778	57.652	0.00	0.00
ATOM	7969	CB	ALA	X	522	40.759	24.767	57.473	0.00	0.00
ATOM	7970	HB1	ALA	X	522	41.290	23.816	57.508	0.00	0.00
ATOM	7971	HB2	ALA	X	522	40.199	24.761	56.538	0.00	0.00
ATOM	7972	HB3	ALA	X	522	40.140	24.909	58.359	0.00	0.00
ATOM	7973	C	ALA	X	522	42.979	25.452	58.553	0.00	0.00
ATOM	7974	O	ALA	X	522	43.045	26.218	59.537	0.00	0.00
ATOM	7975	N	GLN	X	523	43.829	24.417	58.356	0.00	0.00
ATOM	7976	H	GLN	X	523	43.888	23.979	57.448	0.00	0.00
ATOM	7977	CA	GLN	X	523	44.903	24.055	59.307	0.00	0.00
ATOM	7978	HA	GLN	X	523	44.375	23.981	60.258	0.00	0.00
ATOM	7979	CB	GLN	X	523	45.560	22.672	58.984	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.319	22.737	58.204	0.00	0.00
ATOM	7981	HB3	GLN	X	523	46.084	22.414	59.904	0.00	0.00
ATOM	7982	CG	GLN	X	523	44.618	21.400	58.704	0.00	0.00
ATOM	7983	HG2	GLN	X	523	44.329	21.482	57.657	0.00	0.00
ATOM	7984	HG3	GLN	X	523	45.189	20.497	58.919	0.00	0.00
ATOM	7985	CD	GLN	X	523	43.453	21.393	59.660	0.00	0.00
ATOM	7986	OE1	GLN	X	523	42.289	21.412	59.230	0.00	0.00
ATOM	7987	NE2	GLN	X	523	43.677	21.329	60.918	0.00	0.00
ATOM	7988	HE21	GLN	X	523	42.919	21.633	61.512	0.00	0.00
ATOM	7989	HE22	GLN	X	523	44.567	21.335	61.396	0.00	0.00
ATOM	7990	C	GLN	X	523	45.941	25.195	59.492	0.00	0.00
ATOM	7991	O	GLN	X	523	46.239	25.517	60.640	0.00	0.00
ATOM	7992	N	ALA	X	524	46.259	25.912	58.395	0.00	0.00
ATOM	7993	H	ALA	X	524	45.828	25.728	57.500	0.00	0.00
ATOM	7994	CA	ALA	X	524	47.146	27.055	58.392	0.00	0.00
ATOM	7995	HA	ALA	X	524	48.044	26.818	58.963	0.00	0.00
ATOM	7996	CB	ALA	X	524	47.535	27.369	56.904	0.00	0.00
ATOM	7997	HB1	ALA	X	524	47.108	28.338	56.646	0.00	0.00
ATOM	7998	HB2	ALA	X	524	46.976	26.695	56.254	0.00	0.00
ATOM	7999	HB3	ALA	X	524	48.615	27.240	56.831	0.00	0.00
ATOM	8000	C	ALA	X	524	46.512	28.311	59.109	0.00	0.00
ATOM	8001	O	ALA	X	524	47.155	28.953	59.921	0.00	0.00
ATOM	8002	N	CYX	X	525	45.308	28.687	58.744	0.00	0.00
ATOM	8003	H	CYX	X	525	44.939	28.142	57.978	0.00	0.00
ATOM	8004	CA	CYX	X	525	44.665	29.906	59.211	0.00	0.00
ATOM	8005	HA	CYX	X	525	45.377	30.675	58.912	0.00	0.00
ATOM	8006	CB	CYX	X	525	43.347	30.058	58.431	0.00	0.00
ATOM	8007	HB2	CYX	X	525	42.688	29.259	58.771	0.00	0.00
ATOM	8008	HB3	CYX	X	525	42.914	31.020	58.706	0.00	0.00
ATOM	8009	SG	CYX	X	525	43.333	30.080	56.635	0.00	0.00
ATOM	8010	C	CYX	X	525	44.430	29.903	60.740	0.00	0.00
ATOM	8011	O	CYX	X	525	44.164	31.010	61.223	0.00	0.00
ATOM	8012	N	ALA	X	526	44.362	28.828	61.489	0.00	0.00
ATOM	8013	H	ALA	X	526	44.541	27.995	60.946	0.00	0.00
ATOM	8014	CA	ALA	X	526	44.374	28.786	62.971	0.00	0.00
ATOM	8015	HA	ALA	X	526	43.433	29.203	63.330	0.00	0.00
ATOM	8016	CB	ALA	X	526	44.424	27.313	63.499	0.00	0.00
ATOM	8017	HB1	ALA	X	526	45.275	26.829	63.019	0.00	0.00
ATOM	8018	HB2	ALA	X	526	43.464	26.859	63.254	0.00	0.00
ATOM	8019	HB3	ALA	X	526	44.542	27.425	64.577	0.00	0.00
ATOM	8020	C	ALA	X	526	45.653	29.531	63.497	0.00	0.00
ATOM	8021	O	ALA	X	526	45.561	30.082	64.627	0.00	0.00
ATOM	8022	N	PHE	X	527	46.804	29.596	62.786	0.00	0.00
ATOM	8023	H	PHE	X	527	46.908	28.909	62.053	0.00	0.00
ATOM	8024	CA	PHE	X	527	48.008	30.269	63.292	0.00	0.00
ATOM	8025	HA	PHE	X	527	48.040	30.015	64.351	0.00	0.00
ATOM	8026	CB	PHE	X	527	49.291	29.797	62.511	0.00	0.00
ATOM	8027	HB2	PHE	X	527	49.303	28.720	62.683	0.00	0.00
ATOM	8028	HB3	PHE	X	527	49.081	30.112	61.489	0.00	0.00
ATOM	8029	CG	PHE	X	527	50.624	30.430	62.959	0.00	0.00
ATOM	8030	CD1	PHE	X	527	51.052	30.142	64.247	0.00	0.00
ATOM	8031	HD1	PHE	X	527	50.476	29.480	64.877	0.00	0.00

ATOM	8032	CE1	PHE	X	527	52.358	30.563	64.639	0.00	0.00
ATOM	8033	HE1	PHE	X	527	52.814	30.151	65.527	0.00	0.00
ATOM	8034	CZ	PHE	X	527	53.070	31.447	63.856	0.00	0.00
ATOM	8035	HZ	PHE	X	527	53.981	31.913	64.203	0.00	0.00
ATOM	8036	CE2	PHE	X	527	52.583	31.821	62.614	0.00	0.00
ATOM	8037	HE2	PHE	X	527	53.214	32.477	62.032	0.00	0.00
ATOM	8038	CD2	PHE	X	527	51.385	31.238	62.178	0.00	0.00
ATOM	8039	HD2	PHE	X	527	51.004	31.506	61.204	0.00	0.00
ATOM	8040	C	PHE	X	527	47.770	31.796	63.266	0.00	0.00
ATOM	8041	O	PHE	X	527	47.929	32.455	64.282	0.00	0.00
ATOM	8042	N	TRP	X	528	47.321	32.292	62.096	0.00	0.00
ATOM	8043	H	TRP	X	528	47.162	31.702	61.292	0.00	0.00
ATOM	8044	CA	TRP	X	528	47.346	33.756	61.847	0.00	0.00
ATOM	8045	HA	TRP	X	528	48.264	34.127	62.303	0.00	0.00
ATOM	8046	CB	TRP	X	528	47.305	34.116	60.339	0.00	0.00
ATOM	8047	HB2	TRP	X	528	46.460	33.586	59.900	0.00	0.00
ATOM	8048	HB3	TRP	X	528	47.105	35.178	60.199	0.00	0.00
ATOM	8049	CG	TRP	X	528	48.580	33.652	59.678	0.00	0.00
ATOM	8050	CD1	TRP	X	528	48.734	32.624	58.828	0.00	0.00
ATOM	8051	HD1	TRP	X	528	47.934	31.966	58.522	0.00	0.00
ATOM	8052	NE1	TRP	X	528	50.012	32.378	58.496	0.00	0.00
ATOM	8053	HE1	TRP	X	528	50.286	31.542	57.998	0.00	0.00
ATOM	8054	CE2	TRP	X	528	50.834	33.292	59.105	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	52.223	33.497	59.223	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	52.988	32.791	58.934	0.00	0.00
ATOM	8057	CH2	TRP	X	528	52.658	34.721	59.738	0.00	0.00
ATOM	8058	HH2	TRP	X	528	53.723	34.888	59.799	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	51.781	35.663	60.244	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	52.189	36.592	60.614	0.00	0.00
ATOM	8061	CE3	TRP	X	528	50.399	35.419	60.321	0.00	0.00
ATOM	8062	HE3	TRP	X	528	49.740	36.112	60.822	0.00	0.00
ATOM	8063	CD2	TRP	X	528	49.865	34.218	59.757	0.00	0.00
ATOM	8064	C	TRP	X	528	46.239	34.423	62.714	0.00	0.00
ATOM	8065	O	TRP	X	528	46.441	35.464	63.199	0.00	0.00
ATOM	8066	N	ASN	X	529	45.071	33.762	62.859	0.00	0.00
ATOM	8067	H	ASN	X	529	45.015	32.882	62.367	0.00	0.00
ATOM	8068	CA	ASN	X	529	43.928	34.269	63.708	0.00	0.00
ATOM	8069	HA	ASN	X	529	43.800	35.311	63.415	0.00	0.00
ATOM	8070	CB	ASN	X	529	42.642	33.562	63.223	0.00	0.00
ATOM	8071	HB2	ASN	X	529	42.552	33.809	62.165	0.00	0.00
ATOM	8072	HB3	ASN	X	529	42.664	32.473	63.255	0.00	0.00
ATOM	8073	CG	ASN	X	529	41.405	34.175	63.811	0.00	0.00
ATOM	8074	OD1	ASN	X	529	40.688	33.792	64.729	0.00	0.00
ATOM	8075	ND2	ASN	X	529	40.890	35.223	63.180	0.00	0.00
ATOM	8076	HD21	ASN	X	529	40.206	35.780	63.671	0.00	0.00
ATOM	8077	HD22	ASN	X	529	41.307	35.682	62.382	0.00	0.00
ATOM	8078	C	ASN	X	529	44.100	34.097	65.229	0.00	0.00
ATOM	8079	O	ASN	X	529	43.712	34.989	65.990	0.00	0.00
ATOM	8080	N	ARG	X	530	44.604	32.926	65.648	0.00	0.00
ATOM	8081	H	ARG	X	530	44.828	32.148	65.044	0.00	0.00
ATOM	8082	CA	ARG	X	530	44.451	32.571	67.103	0.00	0.00
ATOM	8083	HA	ARG	X	530	43.865	33.349	67.591	0.00	0.00
ATOM	8084	CB	ARG	X	530	43.595	31.269	67.344	0.00	0.00
ATOM	8085	HB2	ARG	X	530	43.989	30.386	66.841	0.00	0.00
ATOM	8086	HB3	ARG	X	530	43.626	31.006	68.402	0.00	0.00
ATOM	8087	CG	ARG	X	530	42.158	31.351	66.792	0.00	0.00
ATOM	8088	HG2	ARG	X	530	42.192	31.636	65.741	0.00	0.00
ATOM	8089	HG3	ARG	X	530	41.789	30.326	66.829	0.00	0.00
ATOM	8090	CD	ARG	X	530	41.328	32.326	67.590	0.00	0.00
ATOM	8091	HD2	ARG	X	530	41.647	33.353	67.416	0.00	0.00
ATOM	8092	HD3	ARG	X	530	40.281	32.276	67.291	0.00	0.00
ATOM	8093	NE	ARG	X	530	41.448	31.953	69.011	0.00	0.00
ATOM	8094	HE	ARG	X	530	41.628	30.990	69.255	0.00	0.00
ATOM	8095	CZ	ARG	X	530	41.517	32.625	70.099	0.00	0.00
ATOM	8096	NH1	ARG	X	530	41.415	33.952	70.078	0.00	0.00
ATOM	8097	HH11	ARG	X	530	41.361	34.514	69.240	0.00	0.00
ATOM	8098	HH12	ARG	X	530	41.359	34.527	70.906	0.00	0.00

ATOM	8099	NH2	ARG	X	530	41.512	31.963	71.228	0.00	0.00
ATOM	8100	HH21	ARG	X	530	41.495	30.953	71.230	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.303	32.392	72.118	0.00	0.00
ATOM	8102	C	ARG	X	530	45.794	32.594	67.853	0.00	0.00
ATOM	8103	O	ARG	X	530	45.754	33.016	68.984	0.00	0.00
ATOM	8104	N	PHE	X	531	46.915	32.106	67.282	0.00	0.00
ATOM	8105	H	PHE	X	531	46.942	32.032	66.275	0.00	0.00
ATOM	8106	CA	PHE	X	531	48.231	32.080	67.922	0.00	0.00
ATOM	8107	HA	PHE	X	531	48.151	31.953	69.001	0.00	0.00
ATOM	8108	CB	PHE	X	531	48.973	30.795	67.393	0.00	0.00
ATOM	8109	HB2	PHE	X	531	48.295	29.974	67.626	0.00	0.00
ATOM	8110	HB3	PHE	X	531	49.069	30.800	66.307	0.00	0.00
ATOM	8111	CG	PHE	X	531	50.348	30.636	67.997	0.00	0.00
ATOM	8112	CD1	PHE	X	531	51.352	31.367	67.433	0.00	0.00
ATOM	8113	HD1	PHE	X	531	51.181	31.990	66.568	0.00	0.00
ATOM	8114	CE1	PHE	X	531	52.641	31.416	67.985	0.00	0.00
ATOM	8115	HE1	PHE	X	531	53.458	31.918	67.490	0.00	0.00
ATOM	8116	CZ	PHE	X	531	52.970	30.602	69.084	0.00	0.00
ATOM	8117	HZ	PHE	X	531	53.997	30.715	69.397	0.00	0.00
ATOM	8118	CE2	PHE	X	531	51.920	29.915	69.747	0.00	0.00
ATOM	8119	HE2	PHE	X	531	52.155	29.195	70.518	0.00	0.00
ATOM	8120	CD2	PHE	X	531	50.594	29.845	69.159	0.00	0.00
ATOM	8121	HD2	PHE	X	531	49.823	29.238	69.610	0.00	0.00
ATOM	8122	C	PHE	X	531	48.958	33.392	67.641	0.00	0.00
ATOM	8123	O	PHE	X	531	49.291	34.000	68.669	0.00	0.00
ATOM	8124	N	LEU	X	532	49.211	33.797	66.377	0.00	0.00
ATOM	8125	H	LEU	X	532	48.941	33.166	65.636	0.00	0.00
ATOM	8126	CA	LEU	X	532	50.010	34.987	65.963	0.00	0.00
ATOM	8127	HA	LEU	X	532	51.037	34.843	66.299	0.00	0.00
ATOM	8128	CB	LEU	X	532	50.084	35.038	64.419	0.00	0.00
ATOM	8129	HB2	LEU	X	532	50.158	34.018	64.041	0.00	0.00
ATOM	8130	HB3	LEU	X	532	49.111	35.408	64.096	0.00	0.00
ATOM	8131	CG	LEU	X	532	51.279	35.758	63.738	0.00	0.00
ATOM	8132	HG	LEU	X	532	51.354	35.387	62.716	0.00	0.00
ATOM	8133	CD1	LEU	X	532	50.975	37.276	63.541	0.00	0.00
ATOM	8134	HD11	LEU	X	532	51.713	37.697	62.858	0.00	0.00
ATOM	8135	HD12	LEU	X	532	50.987	37.785	64.505	0.00	0.00
ATOM	8136	HD13	LEU	X	532	50.000	37.334	63.055	0.00	0.00
ATOM	8137	CD2	LEU	X	532	52.695	35.719	64.385	0.00	0.00
ATOM	8138	HD21	LEU	X	532	53.469	36.085	63.710	0.00	0.00
ATOM	8139	HD22	LEU	X	532	52.644	36.219	65.352	0.00	0.00
ATOM	8140	HD23	LEU	X	532	52.991	34.708	64.667	0.00	0.00
ATOM	8141	C	LEU	X	532	49.550	36.331	66.649	0.00	0.00
ATOM	8142	O	LEU	X	532	50.453	37.034	67.064	0.00	0.00
ATOM	8143	N	PRO	X	533	48.239	36.605	66.811	0.00	0.00
ATOM	8144	CD	PRO	X	533	47.125	36.047	66.245	0.00	0.00
ATOM	8145	HD2	PRO	X	533	46.525	35.543	67.002	0.00	0.00
ATOM	8146	HD3	PRO	X	533	47.176	35.525	65.290	0.00	0.00
ATOM	8147	CG	PRO	X	533	46.303	37.269	65.961	0.00	0.00
ATOM	8148	HG2	PRO	X	533	45.258	37.054	65.736	0.00	0.00
ATOM	8149	HG3	PRO	X	533	46.717	37.780	65.092	0.00	0.00
ATOM	8150	CB	PRO	X	533	46.314	38.080	67.220	0.00	0.00
ATOM	8151	HB2	PRO	X	533	45.622	37.705	67.974	0.00	0.00
ATOM	8152	HB3	PRO	X	533	46.091	39.091	66.879	0.00	0.00
ATOM	8153	CA	PRO	X	533	47.816	37.859	67.518	0.00	0.00
ATOM	8154	HA	PRO	X	533	48.377	38.650	67.021	0.00	0.00
ATOM	8155	C	PRO	X	533	48.181	37.781	69.038	0.00	0.00
ATOM	8156	O	PRO	X	533	48.606	38.838	69.552	0.00	0.00
ATOM	8157	N	LYS	X	534	48.301	36.580	69.679	0.00	0.00
ATOM	8158	H	LYS	X	534	48.006	35.784	69.132	0.00	0.00
ATOM	8159	CA	LYS	X	534	48.752	36.364	70.960	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.472	37.205	71.595	0.00	0.00
ATOM	8161	CB	LYS	X	534	47.987	35.167	71.494	0.00	0.00
ATOM	8162	HB2	LYS	X	534	46.913	35.353	71.466	0.00	0.00
ATOM	8163	HB3	LYS	X	534	48.165	34.351	70.794	0.00	0.00
ATOM	8164	CG	LYS	X	534	48.301	34.743	72.913	0.00	0.00
ATOM	8165	HG2	LYS	X	534	49.342	34.438	73.012	0.00	0.00

ATOM	8166	HG3	LYS	X	534	48.084	35.569	73.590	0.00	0.00
ATOM	8167	CD	LYS	X	534	47.419	33.504	73.355	0.00	0.00
ATOM	8168	HD2	LYS	X	534	47.693	32.650	72.735	0.00	0.00
ATOM	8169	HD3	LYS	X	534	47.813	33.294	74.350	0.00	0.00
ATOM	8170	CE	LYS	X	534	45.950	33.805	73.415	0.00	0.00
ATOM	8171	HE2	LYS	X	534	45.852	34.600	74.153	0.00	0.00
ATOM	8172	HE3	LYS	X	534	45.669	34.281	72.476	0.00	0.00
ATOM	8173	NZ	LYS	X	534	45.052	32.695	73.848	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	45.282	32.252	74.726	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	44.140	33.087	74.039	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	44.922	31.963	73.165	0.00	0.00
ATOM	8177	C	LYS	X	534	50.287	36.249	71.016	0.00	0.00
ATOM	8178	O	LYS	X	534	50.879	36.648	72.018	0.00	0.00
ATOM	8179	N	LEU	X	535	50.972	35.877	69.929	0.00	0.00
ATOM	8180	H	LEU	X	535	50.469	35.532	69.125	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.460	35.955	69.905	0.00	0.00
ATOM	8182	HA	LEU	X	535	53.061	35.446	70.659	0.00	0.00
ATOM	8183	CB	LEU	X	535	52.889	35.182	68.667	0.00	0.00
ATOM	8184	HB2	LEU	X	535	52.558	34.147	68.757	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.323	35.635	67.853	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.446	35.127	68.342	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.759	36.171	68.321	0.00	0.00
ATOM	8188	CD1	LEU	X	535	55.178	34.348	69.420	0.00	0.00
ATOM	8189	HD11	LEU	X	535	55.194	34.892	70.364	0.00	0.00
ATOM	8190	HD12	LEU	X	535	56.181	34.100	69.072	0.00	0.00
ATOM	8191	HD13	LEU	X	535	54.587	33.466	69.667	0.00	0.00
ATOM	8192	CD2	LEU	X	535	54.689	34.582	66.947	0.00	0.00
ATOM	8193	HD21	LEU	X	535	55.699	34.198	66.799	0.00	0.00
ATOM	8194	HD22	LEU	X	535	53.977	33.784	66.738	0.00	0.00
ATOM	8195	HD23	LEU	X	535	54.515	35.391	66.238	0.00	0.00
ATOM	8196	C	LEU	X	535	52.877	37.481	69.868	0.00	0.00
ATOM	8197	O	LEU	X	535	53.792	37.865	70.656	0.00	0.00
ATOM	8198	N	LEU	X	536	52.172	38.295	69.035	0.00	0.00
ATOM	8199	H	LEU	X	536	51.473	37.853	68.456	0.00	0.00
ATOM	8200	CA	LEU	X	536	52.396	39.793	68.995	0.00	0.00
ATOM	8201	HA	LEU	X	536	53.448	40.081	69.000	0.00	0.00
ATOM	8202	CB	LEU	X	536	51.544	40.362	67.769	0.00	0.00
ATOM	8203	HB2	LEU	X	536	50.544	39.935	67.697	0.00	0.00
ATOM	8204	HB3	LEU	X	536	51.336	41.420	67.930	0.00	0.00
ATOM	8205	CG	LEU	X	536	52.188	40.168	66.441	0.00	0.00
ATOM	8206	HG	LEU	X	536	52.533	39.134	66.455	0.00	0.00
ATOM	8207	CD1	LEU	X	536	51.208	40.347	65.308	0.00	0.00
ATOM	8208	HD11	LEU	X	536	51.683	40.089	64.361	0.00	0.00
ATOM	8209	HD12	LEU	X	536	50.854	41.375	65.239	0.00	0.00
ATOM	8210	HD13	LEU	X	536	50.329	39.727	65.481	0.00	0.00
ATOM	8211	CD2	LEU	X	536	53.384	41.076	66.318	0.00	0.00
ATOM	8212	HD21	LEU	X	536	53.825	40.968	65.327	0.00	0.00
ATOM	8213	HD22	LEU	X	536	53.181	42.135	66.477	0.00	0.00
ATOM	8214	HD23	LEU	X	536	54.067	40.704	67.082	0.00	0.00
ATOM	8215	C	LEU	X	536	51.874	40.556	70.213	0.00	0.00
ATOM	8216	O	LEU	X	536	52.384	41.638	70.492	0.00	0.00
ATOM	8217	N	SER	X	537	50.889	40.032	70.958	0.00	0.00
ATOM	8218	H	SER	X	537	50.302	39.342	70.512	0.00	0.00
ATOM	8219	CA	SER	X	537	50.475	40.651	72.229	0.00	0.00
ATOM	8220	HA	SER	X	537	50.710	41.715	72.264	0.00	0.00
ATOM	8221	CB	SER	X	537	49.095	40.329	72.562	0.00	0.00
ATOM	8222	HB2	SER	X	537	48.678	41.031	73.284	0.00	0.00
ATOM	8223	HB3	SER	X	537	48.570	40.500	71.622	0.00	0.00
ATOM	8224	OG	SER	X	537	48.813	38.996	73.017	0.00	0.00
ATOM	8225	HG	SER	X	537	47.855	38.940	73.040	0.00	0.00
ATOM	8226	C	SER	X	537	51.388	40.248	73.470	0.00	0.00
ATOM	8227	O	SER	X	537	51.346	40.950	74.489	0.00	0.00
ATOM	8228	N	ALA	X	538	52.290	39.294	73.316	0.00	0.00
ATOM	8229	H	ALA	X	538	52.109	38.717	72.506	0.00	0.00
ATOM	8230	CA	ALA	X	538	53.113	38.835	74.416	0.00	0.00
ATOM	8231	HA	ALA	X	538	52.697	39.232	75.342	0.00	0.00
ATOM	8232	CB	ALA	X	538	52.951	37.299	74.512	0.00	0.00

ATOM	8233	HB1	ALA	X	538	51.876	37.159	74.401	0.00	0.00
ATOM	8234	HB2	ALA	X	538	53.320	36.939	75.472	0.00	0.00
ATOM	8235	HB3	ALA	X	538	53.516	36.718	73.783	0.00	0.00
ATOM	8236	C	ALA	X	538	54.585	39.321	74.362	0.00	0.00
ATOM	8237	O	ALA	X	538	55.300	39.503	75.389	0.00	0.00
ATOM	8238	N	THR	X	539	55.183	39.502	73.146	0.00	0.00
ATOM	8239	H	THR	X	539	54.567	39.471	72.346	0.00	0.00
ATOM	8240	CA	THR	X	539	56.648	39.451	72.990	0.00	0.00
ATOM	8241	HA	THR	X	539	57.056	38.969	73.879	0.00	0.00
ATOM	8242	CB	THR	X	539	57.084	38.851	71.707	0.00	0.00
ATOM	8243	HB	THR	X	539	56.814	39.464	70.847	0.00	0.00
ATOM	8244	CG2	THR	X	539	58.543	38.456	71.612	0.00	0.00
ATOM	8245	HG21	THR	X	539	59.175	39.336	71.493	0.00	0.00
ATOM	8246	HG22	THR	X	539	58.653	37.795	70.752	0.00	0.00
ATOM	8247	HG23	THR	X	539	58.862	37.855	72.463	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.423	37.609	71.715	0.00	0.00
ATOM	8249	HG1	THR	X	539	55.638	37.747	71.181	0.00	0.00
ATOM	8250	C	THR	X	539	57.177	40.914	73.173	0.00	0.00
ATOM	8251	O	THR	X	539	56.829	41.745	72.312	0.00	0.00
ATOM	8252	OXT	THR	X	539	58.215	41.186	73.866	0.00	0.00

END

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1B41 Production MD Frame 1600
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CRYST1	82.031	82.031	82.031	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	30.464	47.102	5.737	0.00	0.00
ATOM	2	H1	ASP	X	1	29.536	47.350	5.426	0.00	0.00
ATOM	3	H2	ASP	X	1	30.428	46.270	6.309	0.00	0.00
ATOM	4	H3	ASP	X	1	30.896	46.932	4.840	0.00	0.00
ATOM	5	CA	ASP	X	1	31.049	48.257	6.480	0.00	0.00
ATOM	6	HA	ASP	X	1	32.132	48.151	6.429	0.00	0.00
ATOM	7	CB	ASP	X	1	30.701	49.681	5.901	0.00	0.00
ATOM	8	HB2	ASP	X	1	30.888	49.717	4.827	0.00	0.00
ATOM	9	HB3	ASP	X	1	29.639	49.921	5.920	0.00	0.00
ATOM	10	CG	ASP	X	1	31.612	50.836	6.398	0.00	0.00
ATOM	11	OD1	ASP	X	1	31.061	51.924	6.720	0.00	0.00
ATOM	12	OD2	ASP	X	1	32.815	50.685	6.487	0.00	0.00
ATOM	13	C	ASP	X	1	30.706	48.272	8.022	0.00	0.00
ATOM	14	O	ASP	X	1	31.580	48.307	8.871	0.00	0.00
ATOM	15	N	ALA	X	2	29.403	48.370	8.326	0.00	0.00
ATOM	16	H	ALA	X	2	28.713	48.318	7.590	0.00	0.00
ATOM	17	CA	ALA	X	2	28.906	48.667	9.750	0.00	0.00
ATOM	18	HA	ALA	X	2	29.635	49.385	10.125	0.00	0.00
ATOM	19	CB	ALA	X	2	27.540	49.241	9.566	0.00	0.00
ATOM	20	HB1	ALA	X	2	27.674	50.039	8.835	0.00	0.00
ATOM	21	HB2	ALA	X	2	27.213	49.673	10.512	0.00	0.00
ATOM	22	HB3	ALA	X	2	26.790	48.507	9.272	0.00	0.00
ATOM	23	C	ALA	X	2	28.881	47.400	10.691	0.00	0.00
ATOM	24	O	ALA	X	2	28.416	47.405	11.843	0.00	0.00
ATOM	25	N	GLU	X	3	29.543	46.319	10.310	0.00	0.00
ATOM	26	H	GLU	X	3	29.974	46.408	9.401	0.00	0.00
ATOM	27	CA	GLU	X	3	29.827	45.034	11.071	0.00	0.00
ATOM	28	HA	GLU	X	3	28.950	44.429	11.302	0.00	0.00
ATOM	29	CB	GLU	X	3	30.910	44.248	10.293	0.00	0.00
ATOM	30	HB2	GLU	X	3	31.810	44.850	10.168	0.00	0.00
ATOM	31	HB3	GLU	X	3	31.232	43.449	10.960	0.00	0.00
ATOM	32	CG	GLU	X	3	30.373	43.652	8.942	0.00	0.00
ATOM	33	HG2	GLU	X	3	31.003	42.821	8.625	0.00	0.00
ATOM	34	HG3	GLU	X	3	29.376	43.226	9.056	0.00	0.00
ATOM	35	CD	GLU	X	3	30.387	44.746	7.859	0.00	0.00
ATOM	36	OE1	GLU	X	3	29.334	45.320	7.480	0.00	0.00
ATOM	37	OE2	GLU	X	3	31.497	45.172	7.488	0.00	0.00
ATOM	38	C	GLU	X	3	30.449	45.397	12.423	0.00	0.00

ATOM	39	O	GLU	X	3	29.988	44.977	13.448	0.00	0.00
ATOM	40	N	LEU	X	4	31.399	46.260	12.398	0.00	0.00
ATOM	41	H	LEU	X	4	31.504	46.778	11.537	0.00	0.00
ATOM	42	CA	LEU	X	4	32.194	46.689	13.530	0.00	0.00
ATOM	43	HA	LEU	X	4	31.961	46.011	14.351	0.00	0.00
ATOM	44	CB	LEU	X	4	33.714	46.657	13.143	0.00	0.00
ATOM	45	HB2	LEU	X	4	33.845	47.146	12.177	0.00	0.00
ATOM	46	HB3	LEU	X	4	34.336	47.180	13.869	0.00	0.00
ATOM	47	CG	LEU	X	4	34.264	45.229	12.991	0.00	0.00
ATOM	48	HG	LEU	X	4	33.595	44.649	12.354	0.00	0.00
ATOM	49	CD1	LEU	X	4	35.616	45.366	12.244	0.00	0.00
ATOM	50	HD11	LEU	X	4	36.301	45.904	12.899	0.00	0.00
ATOM	51	HD12	LEU	X	4	35.570	45.831	11.259	0.00	0.00
ATOM	52	HD13	LEU	X	4	35.921	44.332	12.089	0.00	0.00
ATOM	53	CD2	LEU	X	4	34.514	44.456	14.283	0.00	0.00
ATOM	54	HD21	LEU	X	4	35.060	43.541	14.055	0.00	0.00
ATOM	55	HD22	LEU	X	4	35.083	45.063	14.987	0.00	0.00
ATOM	56	HD23	LEU	X	4	33.568	44.182	14.752	0.00	0.00
ATOM	57	C	LEU	X	4	31.756	48.007	14.197	0.00	0.00
ATOM	58	O	LEU	X	4	32.376	48.498	15.108	0.00	0.00
ATOM	59	N	LEU	X	5	30.725	48.652	13.567	0.00	0.00
ATOM	60	H	LEU	X	5	30.190	48.088	12.923	0.00	0.00
ATOM	61	CA	LEU	X	5	29.944	49.716	14.211	0.00	0.00
ATOM	62	HA	LEU	X	5	30.503	50.537	14.660	0.00	0.00
ATOM	63	CB	LEU	X	5	29.090	50.506	13.096	0.00	0.00
ATOM	64	HB2	LEU	X	5	29.770	50.786	12.291	0.00	0.00
ATOM	65	HB3	LEU	X	5	28.386	49.788	12.677	0.00	0.00
ATOM	66	CG	LEU	X	5	28.340	51.828	13.404	0.00	0.00
ATOM	67	HG	LEU	X	5	27.512	51.643	14.088	0.00	0.00
ATOM	68	CD1	LEU	X	5	29.070	52.842	14.240	0.00	0.00
ATOM	69	HD11	LEU	X	5	28.394	53.581	14.671	0.00	0.00
ATOM	70	HD12	LEU	X	5	29.915	53.362	13.790	0.00	0.00
ATOM	71	HD13	LEU	X	5	29.513	52.298	15.073	0.00	0.00
ATOM	72	CD2	LEU	X	5	27.756	52.429	12.102	0.00	0.00
ATOM	73	HD21	LEU	X	5	28.661	52.627	11.526	0.00	0.00
ATOM	74	HD22	LEU	X	5	27.161	51.672	11.592	0.00	0.00
ATOM	75	HD23	LEU	X	5	27.112	53.286	12.299	0.00	0.00
ATOM	76	C	LEU	X	5	29.098	49.159	15.351	0.00	0.00
ATOM	77	O	LEU	X	5	28.498	48.089	15.144	0.00	0.00
ATOM	78	N	VAL	X	6	28.968	49.871	16.488	0.00	0.00
ATOM	79	H	VAL	X	6	29.525	50.713	16.537	0.00	0.00
ATOM	80	CA	VAL	X	6	27.992	49.630	17.629	0.00	0.00
ATOM	81	HA	VAL	X	6	27.162	49.082	17.183	0.00	0.00
ATOM	82	CB	VAL	X	6	28.588	48.767	18.765	0.00	0.00
ATOM	83	HB	VAL	X	6	29.607	49.103	18.955	0.00	0.00
ATOM	84	CG1	VAL	X	6	27.942	48.887	20.129	0.00	0.00
ATOM	85	HG11	VAL	X	6	26.993	48.351	20.111	0.00	0.00
ATOM	86	HG12	VAL	X	6	28.620	48.476	20.877	0.00	0.00
ATOM	87	HG13	VAL	X	6	27.818	49.942	20.373	0.00	0.00
ATOM	88	CG2	VAL	X	6	28.830	47.305	18.356	0.00	0.00
ATOM	89	HG21	VAL	X	6	27.840	47.018	18.002	0.00	0.00
ATOM	90	HG22	VAL	X	6	29.065	46.631	19.180	0.00	0.00
ATOM	91	HG23	VAL	X	6	29.664	47.251	17.657	0.00	0.00
ATOM	92	C	VAL	X	6	27.570	50.981	18.127	0.00	0.00
ATOM	93	O	VAL	X	6	28.445	51.829	18.430	0.00	0.00
ATOM	94	N	THR	X	7	26.286	51.140	18.387	0.00	0.00
ATOM	95	H	THR	X	7	25.676	50.462	17.953	0.00	0.00
ATOM	96	CA	THR	X	7	25.696	52.314	19.069	0.00	0.00
ATOM	97	HA	THR	X	7	26.406	53.141	19.078	0.00	0.00
ATOM	98	CB	THR	X	7	24.336	52.655	18.443	0.00	0.00
ATOM	99	HB	THR	X	7	23.620	51.836	18.376	0.00	0.00
ATOM	100	CG2	THR	X	7	23.550	53.814	19.069	0.00	0.00
ATOM	101	HG21	THR	X	7	23.198	53.589	20.076	0.00	0.00
ATOM	102	HG22	THR	X	7	22.626	54.123	18.581	0.00	0.00
ATOM	103	HG23	THR	X	7	24.215	54.678	19.081	0.00	0.00
ATOM	104	OG1	THR	X	7	24.439	53.017	17.119	0.00	0.00
ATOM	105	HG1	THR	X	7	24.631	52.166	16.719	0.00	0.00

ATOM	106	C	THR	X	7	25.299	51.939	20.494	0.00	0.00
ATOM	107	O	THR	X	7	24.617	50.907	20.607	0.00	0.00
ATOM	108	N	VAL	X	8	25.504	52.788	21.529	0.00	0.00
ATOM	109	H	VAL	X	8	25.883	53.688	21.272	0.00	0.00
ATOM	110	CA	VAL	X	8	25.208	52.605	22.934	0.00	0.00
ATOM	111	HA	VAL	X	8	24.649	51.690	23.131	0.00	0.00
ATOM	112	CB	VAL	X	8	26.524	52.526	23.755	0.00	0.00
ATOM	113	HB	VAL	X	8	26.282	52.419	24.812	0.00	0.00
ATOM	114	CG1	VAL	X	8	27.422	51.398	23.241	0.00	0.00
ATOM	115	HG11	VAL	X	8	28.396	51.464	23.727	0.00	0.00
ATOM	116	HG12	VAL	X	8	26.969	50.426	23.436	0.00	0.00
ATOM	117	HG13	VAL	X	8	27.657	51.315	22.179	0.00	0.00
ATOM	118	CG2	VAL	X	8	27.381	53.823	23.728	0.00	0.00
ATOM	119	HG21	VAL	X	8	28.068	53.732	22.887	0.00	0.00
ATOM	120	HG22	VAL	X	8	28.069	53.792	24.573	0.00	0.00
ATOM	121	HG23	VAL	X	8	26.815	54.751	23.654	0.00	0.00
ATOM	122	C	VAL	X	8	24.217	53.642	23.442	0.00	0.00
ATOM	123	O	VAL	X	8	23.520	54.353	22.716	0.00	0.00
ATOM	124	N	ARG	X	9	24.104	53.778	24.768	0.00	0.00
ATOM	125	H	ARG	X	9	24.451	53.069	25.398	0.00	0.00
ATOM	126	CA	ARG	X	9	23.358	54.892	25.344	0.00	0.00
ATOM	127	HA	ARG	X	9	22.343	54.742	24.976	0.00	0.00
ATOM	128	CB	ARG	X	9	23.021	54.568	26.853	0.00	0.00
ATOM	129	HB2	ARG	X	9	22.544	53.591	26.786	0.00	0.00
ATOM	130	HB3	ARG	X	9	23.975	54.507	27.377	0.00	0.00
ATOM	131	CG	ARG	X	9	22.092	55.605	27.371	0.00	0.00
ATOM	132	HG2	ARG	X	9	22.569	56.584	27.328	0.00	0.00
ATOM	133	HG3	ARG	X	9	21.231	55.661	26.705	0.00	0.00
ATOM	134	CD	ARG	X	9	21.663	55.374	28.827	0.00	0.00
ATOM	135	HD2	ARG	X	9	21.310	54.345	28.889	0.00	0.00
ATOM	136	HD3	ARG	X	9	22.583	55.387	29.411	0.00	0.00
ATOM	137	NE	ARG	X	9	20.653	56.309	29.301	0.00	0.00
ATOM	138	HE	ARG	X	9	20.131	56.716	28.538	0.00	0.00
ATOM	139	CZ	ARG	X	9	20.167	56.415	30.537	0.00	0.00
ATOM	140	NH1	ARG	X	9	20.469	55.591	31.514	0.00	0.00
ATOM	141	HH11	ARG	X	9	20.988	54.735	31.376	0.00	0.00
ATOM	142	HH12	ARG	X	9	20.081	55.753	32.432	0.00	0.00
ATOM	143	NH2	ARG	X	9	19.119	57.203	30.646	0.00	0.00
ATOM	144	HH21	ARG	X	9	18.803	57.746	29.855	0.00	0.00
ATOM	145	HH22	ARG	X	9	18.629	57.308	31.523	0.00	0.00
ATOM	146	C	ARG	X	9	23.957	56.247	25.065	0.00	0.00
ATOM	147	O	ARG	X	9	23.317	57.243	24.512	0.00	0.00
ATOM	148	N	GLY	X	10	25.291	56.397	25.344	0.00	0.00
ATOM	149	H	GLY	X	10	25.705	55.674	25.915	0.00	0.00
ATOM	150	CA	GLY	X	10	26.061	57.635	25.237	0.00	0.00
ATOM	151	HA2	GLY	X	10	25.422	58.382	25.708	0.00	0.00
ATOM	152	HA3	GLY	X	10	27.050	57.546	25.686	0.00	0.00
ATOM	153	C	GLY	X	10	26.302	58.198	23.865	0.00	0.00
ATOM	154	O	GLY	X	10	26.603	59.378	23.717	0.00	0.00
ATOM	155	N	GLY	X	11	26.256	57.352	22.838	0.00	0.00
ATOM	156	H	GLY	X	11	26.164	56.351	22.935	0.00	0.00
ATOM	157	CA	GLY	X	11	26.687	57.780	21.480	0.00	0.00
ATOM	158	HA2	GLY	X	11	25.895	58.395	21.054	0.00	0.00
ATOM	159	HA3	GLY	X	11	27.555	58.420	21.640	0.00	0.00
ATOM	160	C	GLY	X	11	27.090	56.555	20.661	0.00	0.00
ATOM	161	O	GLY	X	11	26.769	55.400	21.017	0.00	0.00
ATOM	162	N	ARG	X	12	27.799	56.711	19.541	0.00	0.00
ATOM	163	H	ARG	X	12	28.115	57.639	19.300	0.00	0.00
ATOM	164	CA	ARG	X	12	28.387	55.630	18.656	0.00	0.00
ATOM	165	HA	ARG	X	12	27.749	54.790	18.933	0.00	0.00
ATOM	166	CB	ARG	X	12	27.999	55.999	17.216	0.00	0.00
ATOM	167	HB2	ARG	X	12	28.404	56.988	17.002	0.00	0.00
ATOM	168	HB3	ARG	X	12	28.420	55.277	16.516	0.00	0.00
ATOM	169	CG	ARG	X	12	26.532	56.091	16.854	0.00	0.00
ATOM	170	HG2	ARG	X	12	26.155	55.079	16.707	0.00	0.00
ATOM	171	HG3	ARG	X	12	25.950	56.604	17.620	0.00	0.00
ATOM	172	CD	ARG	X	12	26.438	56.953	15.621	0.00	0.00

ATOM	173	HD2	ARG	X	12	26.622	58.004	15.847	0.00	0.00
ATOM	174	HD3	ARG	X	12	27.062	56.463	14.873	0.00	0.00
ATOM	175	NE	ARG	X	12	25.037	56.984	15.069	0.00	0.00
ATOM	176	HE	ARG	X	12	24.322	56.554	15.639	0.00	0.00
ATOM	177	CZ	ARG	X	12	24.694	57.331	13.839	0.00	0.00
ATOM	178	NH1	ARG	X	12	25.571	57.808	13.038	0.00	0.00
ATOM	179	HH11	ARG	X	12	26.551	57.916	13.255	0.00	0.00
ATOM	180	HH12	ARG	X	12	25.238	58.044	12.114	0.00	0.00
ATOM	181	NH2	ARG	X	12	23.472	57.378	13.452	0.00	0.00
ATOM	182	HH21	ARG	X	12	22.749	57.113	14.105	0.00	0.00
ATOM	183	HH22	ARG	X	12	23.286	57.324	12.461	0.00	0.00
ATOM	184	C	ARG	X	12	29.832	55.312	18.960	0.00	0.00
ATOM	185	O	ARG	X	12	30.636	56.157	19.281	0.00	0.00
ATOM	186	N	LEU	X	13	30.167	54.027	18.631	0.00	0.00
ATOM	187	H	LEU	X	13	29.432	53.467	18.223	0.00	0.00
ATOM	188	CA	LEU	X	13	31.499	53.320	18.788	0.00	0.00
ATOM	189	HA	LEU	X	13	32.316	54.040	18.827	0.00	0.00
ATOM	190	CB	LEU	X	13	31.632	52.357	19.939	0.00	0.00
ATOM	191	HB2	LEU	X	13	30.894	51.571	19.778	0.00	0.00
ATOM	192	HB3	LEU	X	13	32.647	51.966	19.874	0.00	0.00
ATOM	193	CG	LEU	X	13	31.326	53.053	21.317	0.00	0.00
ATOM	194	HG	LEU	X	13	30.316	53.444	21.193	0.00	0.00
ATOM	195	CD1	LEU	X	13	31.253	51.992	22.444	0.00	0.00
ATOM	196	HD11	LEU	X	13	31.010	52.483	23.386	0.00	0.00
ATOM	197	HD12	LEU	X	13	32.177	51.416	22.511	0.00	0.00
ATOM	198	HD13	LEU	X	13	30.416	51.326	22.232	0.00	0.00
ATOM	199	CD2	LEU	X	13	32.310	54.195	21.684	0.00	0.00
ATOM	200	HD21	LEU	X	13	32.182	55.069	21.045	0.00	0.00
ATOM	201	HD22	LEU	X	13	32.215	54.574	22.702	0.00	0.00
ATOM	202	HD23	LEU	X	13	33.330	53.856	21.501	0.00	0.00
ATOM	203	C	LEU	X	13	31.778	52.432	17.571	0.00	0.00
ATOM	204	O	LEU	X	13	30.957	51.742	17.020	0.00	0.00
ATOM	205	N	ARG	X	14	33.079	52.331	17.321	0.00	0.00
ATOM	206	H	ARG	X	14	33.631	53.084	17.707	0.00	0.00
ATOM	207	CA	ARG	X	14	33.628	51.408	16.362	0.00	0.00
ATOM	208	HA	ARG	X	14	32.894	50.605	16.294	0.00	0.00
ATOM	209	CB	ARG	X	14	33.874	52.083	14.984	0.00	0.00
ATOM	210	HB2	ARG	X	14	33.094	52.818	14.787	0.00	0.00
ATOM	211	HB3	ARG	X	14	34.669	52.828	14.937	0.00	0.00
ATOM	212	CG	ARG	X	14	34.051	51.015	13.862	0.00	0.00
ATOM	213	HG2	ARG	X	14	34.549	50.141	14.281	0.00	0.00
ATOM	214	HG3	ARG	X	14	33.051	50.754	13.515	0.00	0.00
ATOM	215	CD	ARG	X	14	34.874	51.644	12.730	0.00	0.00
ATOM	216	HD2	ARG	X	14	34.453	52.564	12.325	0.00	0.00
ATOM	217	HD3	ARG	X	14	35.872	51.841	13.124	0.00	0.00
ATOM	218	NE	ARG	X	14	35.038	50.607	11.654	0.00	0.00
ATOM	219	HE	ARG	X	14	34.324	50.568	10.940	0.00	0.00
ATOM	220	CZ	ARG	X	14	36.067	49.819	11.407	0.00	0.00
ATOM	221	NH1	ARG	X	14	37.129	49.751	12.153	0.00	0.00
ATOM	222	HH11	ARG	X	14	37.158	50.306	12.997	0.00	0.00
ATOM	223	HH12	ARG	X	14	37.855	49.108	11.875	0.00	0.00
ATOM	224	NH2	ARG	X	14	35.986	49.062	10.406	0.00	0.00
ATOM	225	HH21	ARG	X	14	35.349	49.140	9.627	0.00	0.00
ATOM	226	HH22	ARG	X	14	36.618	48.276	10.357	0.00	0.00
ATOM	227	C	ARG	X	14	35.031	50.818	16.853	0.00	0.00
ATOM	228	O	ARG	X	14	35.996	51.595	17.047	0.00	0.00
ATOM	229	N	GLY	X	15	35.236	49.524	16.981	0.00	0.00
ATOM	230	H	GLY	X	15	34.514	48.955	16.563	0.00	0.00
ATOM	231	CA	GLY	X	15	36.465	48.771	17.252	0.00	0.00
ATOM	232	HA2	GLY	X	15	37.270	49.484	17.429	0.00	0.00
ATOM	233	HA3	GLY	X	15	36.352	48.189	18.167	0.00	0.00
ATOM	234	C	GLY	X	15	36.816	47.791	16.098	0.00	0.00
ATOM	235	O	GLY	X	15	36.769	48.195	14.919	0.00	0.00
ATOM	236	N	ILE	X	16	37.418	46.653	16.501	0.00	0.00
ATOM	237	H	ILE	X	16	37.504	46.562	17.503	0.00	0.00
ATOM	238	CA	ILE	X	16	38.350	45.799	15.610	0.00	0.00
ATOM	239	HA	ILE	X	16	38.184	46.189	14.606	0.00	0.00

ATOM	240	CB	ILE	X	16	39.900	45.824	15.978	0.00	0.00
ATOM	241	HB	ILE	X	16	40.410	45.132	15.308	0.00	0.00
ATOM	242	CG2	ILE	X	16	40.414	47.319	15.863	0.00	0.00
ATOM	243	HG21	ILE	X	16	41.495	47.460	15.882	0.00	0.00
ATOM	244	HG22	ILE	X	16	39.869	48.058	16.448	0.00	0.00
ATOM	245	HG23	ILE	X	16	40.176	47.496	14.814	0.00	0.00
ATOM	246	CG1	ILE	X	16	40.138	45.291	17.384	0.00	0.00
ATOM	247	HG12	ILE	X	16	39.634	45.915	18.122	0.00	0.00
ATOM	248	HG13	ILE	X	16	39.765	44.267	17.421	0.00	0.00
ATOM	249	CD1	ILE	X	16	41.617	45.337	17.755	0.00	0.00
ATOM	250	HD11	ILE	X	16	42.150	44.894	16.914	0.00	0.00
ATOM	251	HD12	ILE	X	16	41.874	44.924	18.731	0.00	0.00
ATOM	252	HD13	ILE	X	16	42.009	46.352	17.824	0.00	0.00
ATOM	253	C	ILE	X	16	37.979	44.343	15.351	0.00	0.00
ATOM	254	O	ILE	X	16	37.442	43.719	16.272	0.00	0.00
ATOM	255	N	ARG	X	17	38.325	43.809	14.166	0.00	0.00
ATOM	256	H	ARG	X	17	38.485	44.411	13.370	0.00	0.00
ATOM	257	CA	ARG	X	17	38.468	42.337	13.948	0.00	0.00
ATOM	258	HA	ARG	X	17	37.607	41.939	14.484	0.00	0.00
ATOM	259	CB	ARG	X	17	38.202	42.059	12.505	0.00	0.00
ATOM	260	HB2	ARG	X	17	37.504	42.816	12.148	0.00	0.00
ATOM	261	HB3	ARG	X	17	39.067	42.244	11.867	0.00	0.00
ATOM	262	CG	ARG	X	17	37.544	40.728	12.143	0.00	0.00
ATOM	263	HG2	ARG	X	17	38.211	39.959	12.532	0.00	0.00
ATOM	264	HG3	ARG	X	17	36.660	40.610	12.770	0.00	0.00
ATOM	265	CD	ARG	X	17	37.094	40.427	10.703	0.00	0.00
ATOM	266	HD2	ARG	X	17	36.257	41.094	10.499	0.00	0.00
ATOM	267	HD3	ARG	X	17	37.831	40.615	9.921	0.00	0.00
ATOM	268	NE	ARG	X	17	36.691	39.023	10.489	0.00	0.00
ATOM	269	HE	ARG	X	17	35.715	38.917	10.253	0.00	0.00
ATOM	270	CZ	ARG	X	17	37.486	37.983	10.211	0.00	0.00
ATOM	271	NH1	ARG	X	17	38.784	38.061	10.448	0.00	0.00
ATOM	272	HH11	ARG	X	17	39.276	38.871	10.797	0.00	0.00
ATOM	273	HH12	ARG	X	17	39.237	37.178	10.635	0.00	0.00
ATOM	274	NH2	ARG	X	17	37.036	36.819	9.730	0.00	0.00
ATOM	275	HH21	ARG	X	17	36.038	36.698	9.627	0.00	0.00
ATOM	276	HH22	ARG	X	17	37.632	36.004	9.768	0.00	0.00
ATOM	277	C	ARG	X	17	39.795	41.784	14.517	0.00	0.00
ATOM	278	O	ARG	X	17	40.685	42.575	14.652	0.00	0.00
ATOM	279	N	LEU	X	18	39.848	40.534	14.739	0.00	0.00
ATOM	280	H	LEU	X	18	38.908	40.166	14.722	0.00	0.00
ATOM	281	CA	LEU	X	18	40.890	39.780	15.447	0.00	0.00
ATOM	282	HA	LEU	X	18	41.861	40.228	15.236	0.00	0.00
ATOM	283	CB	LEU	X	18	40.678	39.791	16.979	0.00	0.00
ATOM	284	HB2	LEU	X	18	39.675	39.469	17.261	0.00	0.00
ATOM	285	HB3	LEU	X	18	41.275	38.997	17.427	0.00	0.00
ATOM	286	CG	LEU	X	18	41.094	41.166	17.668	0.00	0.00
ATOM	287	HG	LEU	X	18	40.646	42.075	17.267	0.00	0.00
ATOM	288	CD1	LEU	X	18	40.751	41.081	19.170	0.00	0.00
ATOM	289	HD11	LEU	X	18	41.163	41.895	19.765	0.00	0.00
ATOM	290	HD12	LEU	X	18	41.067	40.117	19.569	0.00	0.00
ATOM	291	HD13	LEU	X	18	39.677	41.128	19.345	0.00	0.00
ATOM	292	CD2	LEU	X	18	42.595	41.467	17.656	0.00	0.00
ATOM	293	HD21	LEU	X	18	42.905	42.286	18.306	0.00	0.00
ATOM	294	HD22	LEU	X	18	43.199	40.613	17.961	0.00	0.00
ATOM	295	HD23	LEU	X	18	42.881	41.768	16.648	0.00	0.00
ATOM	296	C	LEU	X	18	40.839	38.305	14.981	0.00	0.00
ATOM	297	O	LEU	X	18	39.861	37.824	14.492	0.00	0.00
ATOM	298	N	LYS	X	19	41.894	37.493	15.400	0.00	0.00
ATOM	299	H	LYS	X	19	42.657	37.944	15.883	0.00	0.00
ATOM	300	CA	LYS	X	19	41.954	36.048	15.086	0.00	0.00
ATOM	301	HA	LYS	X	19	40.986	35.551	15.041	0.00	0.00
ATOM	302	CB	LYS	X	19	42.466	35.889	13.615	0.00	0.00
ATOM	303	HB2	LYS	X	19	41.776	36.455	12.989	0.00	0.00
ATOM	304	HB3	LYS	X	19	43.379	36.481	13.542	0.00	0.00
ATOM	305	CG	LYS	X	19	42.642	34.455	13.191	0.00	0.00
ATOM	306	HG2	LYS	X	19	43.332	33.903	13.830	0.00	0.00

ATOM	307	HG3	LYS	X	19	41.611	34.103	13.229	0.00	0.00
ATOM	308	CD	LYS	X	19	43.229	34.333	11.766	0.00	0.00
ATOM	309	HD2	LYS	X	19	43.057	33.327	11.385	0.00	0.00
ATOM	310	HD3	LYS	X	19	42.769	35.013	11.049	0.00	0.00
ATOM	311	CE	LYS	X	19	44.734	34.618	11.872	0.00	0.00
ATOM	312	HE2	LYS	X	19	45.044	35.625	12.153	0.00	0.00
ATOM	313	HE3	LYS	X	19	45.132	33.976	12.657	0.00	0.00
ATOM	314	NZ	LYS	X	19	45.289	34.423	10.503	0.00	0.00
ATOM	315	HZ1	LYS	X	19	45.262	33.496	10.104	0.00	0.00
ATOM	316	HZ2	LYS	X	19	44.813	34.963	9.794	0.00	0.00
ATOM	317	HZ3	LYS	X	19	46.250	34.719	10.406	0.00	0.00
ATOM	318	C	LYS	X	19	42.852	35.295	16.083	0.00	0.00
ATOM	319	O	LYS	X	19	43.907	35.815	16.536	0.00	0.00
ATOM	320	N	THR	X	20	42.565	34.048	16.234	0.00	0.00
ATOM	321	H	THR	X	20	41.730	33.690	15.793	0.00	0.00
ATOM	322	CA	THR	X	20	43.326	32.940	16.743	0.00	0.00
ATOM	323	HA	THR	X	20	44.343	33.291	16.920	0.00	0.00
ATOM	324	CB	THR	X	20	42.755	32.681	18.130	0.00	0.00
ATOM	325	HB	THR	X	20	43.356	31.913	18.616	0.00	0.00
ATOM	326	CG2	THR	X	20	42.871	33.864	19.139	0.00	0.00
ATOM	327	HG21	THR	X	20	42.693	33.418	20.117	0.00	0.00
ATOM	328	HG22	THR	X	20	42.231	34.715	18.906	0.00	0.00
ATOM	329	HG23	THR	X	20	43.894	34.241	19.125	0.00	0.00
ATOM	330	OG1	THR	X	20	41.434	32.263	18.035	0.00	0.00
ATOM	331	HG1	THR	X	20	41.207	31.808	18.849	0.00	0.00
ATOM	332	C	THR	X	20	43.322	31.697	15.788	0.00	0.00
ATOM	333	O	THR	X	20	42.394	31.649	14.970	0.00	0.00
ATOM	334	N	PRO	X	21	44.224	30.678	15.983	0.00	0.00
ATOM	335	CD	PRO	X	21	45.394	30.766	16.821	0.00	0.00
ATOM	336	HD2	PRO	X	21	45.094	30.575	17.851	0.00	0.00
ATOM	337	HD3	PRO	X	21	45.937	31.711	16.787	0.00	0.00
ATOM	338	CG	PRO	X	21	46.299	29.608	16.324	0.00	0.00
ATOM	339	HG2	PRO	X	21	47.012	29.257	17.070	0.00	0.00
ATOM	340	HG3	PRO	X	21	46.902	29.902	15.465	0.00	0.00
ATOM	341	CB	PRO	X	21	45.212	28.589	15.896	0.00	0.00
ATOM	342	HB2	PRO	X	21	44.917	27.955	16.732	0.00	0.00
ATOM	343	HB3	PRO	X	21	45.726	27.945	15.182	0.00	0.00
ATOM	344	CA	PRO	X	21	44.131	29.412	15.340	0.00	0.00
ATOM	345	HA	PRO	X	21	44.372	29.597	14.293	0.00	0.00
ATOM	346	C	PRO	X	21	42.839	28.765	15.495	0.00	0.00
ATOM	347	O	PRO	X	21	42.525	27.964	14.615	0.00	0.00
ATOM	348	N	GLY	X	22	42.071	29.052	16.491	0.00	0.00
ATOM	349	H	GLY	X	22	42.418	29.751	17.132	0.00	0.00
ATOM	350	CA	GLY	X	22	40.665	28.611	16.655	0.00	0.00
ATOM	351	HA2	GLY	X	22	40.484	27.553	16.460	0.00	0.00
ATOM	352	HA3	GLY	X	22	40.385	28.840	17.683	0.00	0.00
ATOM	353	C	GLY	X	22	39.673	29.306	15.726	0.00	0.00
ATOM	354	O	GLY	X	22	38.814	28.654	15.214	0.00	0.00
ATOM	355	N	GLY	X	23	39.685	30.641	15.594	0.00	0.00
ATOM	356	H	GLY	X	23	40.348	31.251	16.051	0.00	0.00
ATOM	357	CA	GLY	X	23	38.593	31.413	14.955	0.00	0.00
ATOM	358	HA2	GLY	X	23	38.522	30.961	13.966	0.00	0.00
ATOM	359	HA3	GLY	X	23	37.616	31.195	15.385	0.00	0.00
ATOM	360	C	GLY	X	23	38.821	32.919	14.880	0.00	0.00
ATOM	361	O	GLY	X	23	39.729	33.375	15.522	0.00	0.00
ATOM	362	N	PRO	X	24	38.033	33.647	14.183	0.00	0.00
ATOM	363	CD	PRO	X	24	37.014	33.129	13.350	0.00	0.00
ATOM	364	HD2	PRO	X	24	36.415	32.484	13.993	0.00	0.00
ATOM	365	HD3	PRO	X	24	37.343	32.544	12.491	0.00	0.00
ATOM	366	CG	PRO	X	24	36.193	34.272	12.830	0.00	0.00
ATOM	367	HG2	PRO	X	24	35.335	34.444	13.479	0.00	0.00
ATOM	368	HG3	PRO	X	24	36.020	34.124	11.764	0.00	0.00
ATOM	369	CB	PRO	X	24	37.094	35.476	13.041	0.00	0.00
ATOM	370	HB2	PRO	X	24	36.420	36.317	13.206	0.00	0.00
ATOM	371	HB3	PRO	X	24	37.791	35.648	12.221	0.00	0.00
ATOM	372	CA	PRO	X	24	37.869	35.091	14.225	0.00	0.00
ATOM	373	HA	PRO	X	24	38.862	35.516	14.082	0.00	0.00

ATOM	374	C	PRO	X	24	37.246	35.527	15.554	0.00	0.00
ATOM	375	O	PRO	X	24	36.504	34.773	16.197	0.00	0.00
ATOM	376	N	VAL	X	25	37.552	36.803	15.844	0.00	0.00
ATOM	377	H	VAL	X	25	38.250	37.328	15.337	0.00	0.00
ATOM	378	CA	VAL	X	25	36.977	37.477	17.041	0.00	0.00
ATOM	379	HA	VAL	X	25	35.994	37.069	17.275	0.00	0.00
ATOM	380	CB	VAL	X	25	37.837	37.289	18.366	0.00	0.00
ATOM	381	HB	VAL	X	25	38.298	38.187	18.778	0.00	0.00
ATOM	382	CG1	VAL	X	25	36.809	36.925	19.507	0.00	0.00
ATOM	383	HG11	VAL	X	25	37.214	37.084	20.506	0.00	0.00
ATOM	384	HG12	VAL	X	25	35.992	37.645	19.555	0.00	0.00
ATOM	385	HG13	VAL	X	25	36.308	35.982	19.290	0.00	0.00
ATOM	386	CG2	VAL	X	25	38.951	36.209	18.360	0.00	0.00
ATOM	387	HG21	VAL	X	25	39.260	36.018	19.387	0.00	0.00
ATOM	388	HG22	VAL	X	25	39.868	36.588	17.908	0.00	0.00
ATOM	389	HG23	VAL	X	25	38.633	35.320	17.815	0.00	0.00
ATOM	390	C	VAL	X	25	36.823	38.987	16.873	0.00	0.00
ATOM	391	O	VAL	X	25	37.225	39.523	15.804	0.00	0.00
ATOM	392	N	SER	X	26	36.214	39.651	17.784	0.00	0.00
ATOM	393	H	SER	X	26	35.850	39.184	18.602	0.00	0.00
ATOM	394	CA	SER	X	26	36.180	41.138	17.814	0.00	0.00
ATOM	395	HA	SER	X	26	36.916	41.592	17.152	0.00	0.00
ATOM	396	CB	SER	X	26	34.837	41.733	17.291	0.00	0.00
ATOM	397	HB2	SER	X	26	34.638	42.680	17.793	0.00	0.00
ATOM	398	HB3	SER	X	26	35.008	41.960	16.238	0.00	0.00
ATOM	399	OG	SER	X	26	33.666	40.887	17.363	0.00	0.00
ATOM	400	HG	SER	X	26	33.674	40.208	18.041	0.00	0.00
ATOM	401	C	SER	X	26	36.405	41.686	19.249	0.00	0.00
ATOM	402	O	SER	X	26	35.942	41.104	20.207	0.00	0.00
ATOM	403	N	ALA	X	27	36.985	42.905	19.227	0.00	0.00
ATOM	404	H	ALA	X	27	37.135	43.286	18.304	0.00	0.00
ATOM	405	CA	ALA	X	27	37.204	43.667	20.417	0.00	0.00
ATOM	406	HA	ALA	X	27	36.479	43.370	21.175	0.00	0.00
ATOM	407	CB	ALA	X	27	38.559	43.315	21.001	0.00	0.00
ATOM	408	HB1	ALA	X	27	39.366	43.752	20.413	0.00	0.00
ATOM	409	HB2	ALA	X	27	38.835	42.265	21.100	0.00	0.00
ATOM	410	HB3	ALA	X	27	38.640	43.871	21.936	0.00	0.00
ATOM	411	C	ALA	X	27	37.049	45.240	20.186	0.00	0.00
ATOM	412	O	ALA	X	27	37.373	45.780	19.143	0.00	0.00
ATOM	413	N	PHE	X	28	36.478	45.902	21.197	0.00	0.00
ATOM	414	H	PHE	X	28	36.266	45.326	21.999	0.00	0.00
ATOM	415	CA	PHE	X	28	36.299	47.358	21.331	0.00	0.00
ATOM	416	HA	PHE	X	28	36.725	47.895	20.483	0.00	0.00
ATOM	417	CB	PHE	X	28	34.787	47.682	21.427	0.00	0.00
ATOM	418	HB2	PHE	X	28	34.284	47.105	22.202	0.00	0.00
ATOM	419	HB3	PHE	X	28	34.633	48.751	21.578	0.00	0.00
ATOM	420	CG	PHE	X	28	33.939	47.299	20.208	0.00	0.00
ATOM	421	CD1	PHE	X	28	33.674	45.939	19.825	0.00	0.00
ATOM	422	HD1	PHE	X	28	34.084	45.108	20.379	0.00	0.00
ATOM	423	CE1	PHE	X	28	32.897	45.675	18.668	0.00	0.00
ATOM	424	HE1	PHE	X	28	32.711	44.629	18.475	0.00	0.00
ATOM	425	CZ	PHE	X	28	32.410	46.732	17.858	0.00	0.00
ATOM	426	HZ	PHE	X	28	31.750	46.394	17.072	0.00	0.00
ATOM	427	CE2	PHE	X	28	32.650	48.053	18.268	0.00	0.00
ATOM	428	HE2	PHE	X	28	32.207	48.893	17.753	0.00	0.00
ATOM	429	CD2	PHE	X	28	33.278	48.300	19.467	0.00	0.00
ATOM	430	HD2	PHE	X	28	33.380	49.343	19.729	0.00	0.00
ATOM	431	C	PHE	X	28	36.990	47.887	22.566	0.00	0.00
ATOM	432	O	PHE	X	28	36.611	47.516	23.650	0.00	0.00
ATOM	433	N	LEU	X	29	38.024	48.709	22.526	0.00	0.00
ATOM	434	H	LEU	X	29	38.095	49.241	21.670	0.00	0.00
ATOM	435	CA	LEU	X	29	39.069	48.910	23.540	0.00	0.00
ATOM	436	HA	LEU	X	29	38.775	48.508	24.509	0.00	0.00
ATOM	437	CB	LEU	X	29	40.462	48.366	23.118	0.00	0.00
ATOM	438	HB2	LEU	X	29	40.832	48.936	22.265	0.00	0.00
ATOM	439	HB3	LEU	X	29	41.213	48.386	23.907	0.00	0.00
ATOM	440	CG	LEU	X	29	40.375	46.890	22.781	0.00	0.00

ATOM	441	HG	LEU	X	29	39.569	46.698	22.073	0.00	0.00
ATOM	442	CD1	LEU	X	29	41.788	46.471	22.236	0.00	0.00
ATOM	443	HD11	LEU	X	29	42.572	46.624	22.978	0.00	0.00
ATOM	444	HD12	LEU	X	29	42.092	47.143	21.433	0.00	0.00
ATOM	445	HD13	LEU	X	29	41.738	45.444	21.874	0.00	0.00
ATOM	446	CD2	LEU	X	29	40.002	46.043	23.992	0.00	0.00
ATOM	447	HD21	LEU	X	29	40.797	46.077	24.737	0.00	0.00
ATOM	448	HD22	LEU	X	29	39.058	46.373	24.424	0.00	0.00
ATOM	449	HD23	LEU	X	29	39.871	45.009	23.672	0.00	0.00
ATOM	450	C	LEU	X	29	39.212	50.478	23.670	0.00	0.00
ATOM	451	O	LEU	X	29	39.261	51.227	22.673	0.00	0.00
ATOM	452	N	GLY	X	30	39.326	50.913	24.906	0.00	0.00
ATOM	453	H	GLY	X	30	39.512	50.201	25.598	0.00	0.00
ATOM	454	CA	GLY	X	30	39.539	52.353	25.216	0.00	0.00
ATOM	455	HA2	GLY	X	30	39.920	52.426	26.235	0.00	0.00
ATOM	456	HA3	GLY	X	30	40.280	52.682	24.487	0.00	0.00
ATOM	457	C	GLY	X	30	38.200	53.167	25.282	0.00	0.00
ATOM	458	O	GLY	X	30	38.161	54.277	24.924	0.00	0.00
ATOM	459	N	ILE	X	31	37.107	52.537	25.699	0.00	0.00
ATOM	460	H	ILE	X	31	37.247	51.550	25.860	0.00	0.00
ATOM	461	CA	ILE	X	31	35.742	53.005	25.753	0.00	0.00
ATOM	462	HA	ILE	X	31	35.533	53.610	24.871	0.00	0.00
ATOM	463	CB	ILE	X	31	34.778	51.813	25.905	0.00	0.00
ATOM	464	HB	ILE	X	31	35.110	51.233	26.766	0.00	0.00
ATOM	465	CG2	ILE	X	31	33.254	52.096	26.086	0.00	0.00
ATOM	466	HG21	ILE	X	31	32.702	51.233	26.458	0.00	0.00
ATOM	467	HG22	ILE	X	31	32.862	52.534	25.168	0.00	0.00
ATOM	468	HG23	ILE	X	31	33.071	52.907	26.791	0.00	0.00
ATOM	469	CG1	ILE	X	31	34.890	50.938	24.621	0.00	0.00
ATOM	470	HG12	ILE	X	31	34.864	51.563	23.728	0.00	0.00
ATOM	471	HG13	ILE	X	31	35.868	50.485	24.780	0.00	0.00
ATOM	472	CD1	ILE	X	31	33.956	49.811	24.352	0.00	0.00
ATOM	473	HD11	ILE	X	31	32.932	50.179	24.282	0.00	0.00
ATOM	474	HD12	ILE	X	31	33.948	49.244	25.283	0.00	0.00
ATOM	475	HD13	ILE	X	31	34.203	49.192	23.489	0.00	0.00
ATOM	476	C	ILE	X	31	35.429	53.881	27.001	0.00	0.00
ATOM	477	O	ILE	X	31	35.753	53.540	28.151	0.00	0.00
ATOM	478	N	PRO	X	32	34.744	55.047	26.786	0.00	0.00
ATOM	479	CD	PRO	X	32	34.173	55.619	25.581	0.00	0.00
ATOM	480	HD2	PRO	X	32	33.351	55.002	25.221	0.00	0.00
ATOM	481	HD3	PRO	X	32	34.950	55.644	24.817	0.00	0.00
ATOM	482	CG	PRO	X	32	33.578	57.039	25.965	0.00	0.00
ATOM	483	HG2	PRO	X	32	32.497	56.928	26.051	0.00	0.00
ATOM	484	HG3	PRO	X	32	33.773	57.806	25.215	0.00	0.00
ATOM	485	CB	PRO	X	32	34.381	57.341	27.259	0.00	0.00
ATOM	486	HB2	PRO	X	32	33.840	58.113	27.806	0.00	0.00
ATOM	487	HB3	PRO	X	32	35.385	57.692	27.018	0.00	0.00
ATOM	488	CA	PRO	X	32	34.492	55.922	27.939	0.00	0.00
ATOM	489	HA	PRO	X	32	35.379	55.856	28.569	0.00	0.00
ATOM	490	C	PRO	X	32	33.219	55.578	28.690	0.00	0.00
ATOM	491	O	PRO	X	32	32.122	55.404	28.152	0.00	0.00
ATOM	492	N	PHE	X	33	33.355	55.578	30.023	0.00	0.00
ATOM	493	H	PHE	X	33	34.299	55.593	30.381	0.00	0.00
ATOM	494	CA	PHE	X	33	32.360	55.404	31.042	0.00	0.00
ATOM	495	HA	PHE	X	33	31.380	55.650	30.632	0.00	0.00
ATOM	496	CB	PHE	X	33	32.384	53.878	31.458	0.00	0.00
ATOM	497	HB2	PHE	X	33	31.450	53.758	32.008	0.00	0.00
ATOM	498	HB3	PHE	X	33	32.321	53.288	30.544	0.00	0.00
ATOM	499	CG	PHE	X	33	33.609	53.528	32.380	0.00	0.00
ATOM	500	CD1	PHE	X	33	33.301	53.427	33.774	0.00	0.00
ATOM	501	HD1	PHE	X	33	32.274	53.552	34.083	0.00	0.00
ATOM	502	CE1	PHE	X	33	34.275	53.339	34.766	0.00	0.00
ATOM	503	HE1	PHE	X	33	34.128	53.341	35.836	0.00	0.00
ATOM	504	CZ	PHE	X	33	35.651	53.368	34.376	0.00	0.00
ATOM	505	HZ	PHE	X	33	36.427	53.482	35.119	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.984	53.339	32.974	0.00	0.00
ATOM	507	HE2	PHE	X	33	37.021	53.489	32.710	0.00	0.00

ATOM	508	CD2	PHE	X	33	34.965	53.428	31.974	0.00	0.00
ATOM	509	HD2	PHE	X	33	35.107	53.524	30.908	0.00	0.00
ATOM	510	C	PHE	X	33	32.460	56.317	32.245	0.00	0.00
ATOM	511	O	PHE	X	33	31.573	56.374	33.123	0.00	0.00
ATOM	512	N	ALA	X	34	33.560	57.072	32.331	0.00	0.00
ATOM	513	H	ALA	X	34	34.257	56.924	31.615	0.00	0.00
ATOM	514	CA	ALA	X	34	33.828	58.108	33.354	0.00	0.00
ATOM	515	HA	ALA	X	34	32.857	58.436	33.724	0.00	0.00
ATOM	516	CB	ALA	X	34	34.749	57.464	34.435	0.00	0.00
ATOM	517	HB1	ALA	X	34	34.947	58.155	35.255	0.00	0.00
ATOM	518	HB2	ALA	X	34	35.675	57.060	34.026	0.00	0.00
ATOM	519	HB3	ALA	X	34	34.225	56.596	34.833	0.00	0.00
ATOM	520	C	ALA	X	34	34.511	59.288	32.708	0.00	0.00
ATOM	521	O	ALA	X	34	35.465	59.204	31.946	0.00	0.00
ATOM	522	N	GLU	X	35	34.235	60.439	33.284	0.00	0.00
ATOM	523	H	GLU	X	35	33.700	60.400	34.139	0.00	0.00
ATOM	524	CA	GLU	X	35	35.032	61.640	33.004	0.00	0.00
ATOM	525	HA	GLU	X	35	35.237	61.757	31.939	0.00	0.00
ATOM	526	CB	GLU	X	35	34.262	62.901	33.448	0.00	0.00
ATOM	527	HB2	GLU	X	35	33.965	62.851	34.496	0.00	0.00
ATOM	528	HB3	GLU	X	35	34.885	63.793	33.397	0.00	0.00
ATOM	529	CG	GLU	X	35	32.891	63.022	32.721	0.00	0.00
ATOM	530	HG2	GLU	X	35	32.277	62.125	32.788	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.410	63.917	33.115	0.00	0.00
ATOM	532	CD	GLU	X	35	33.071	63.309	31.283	0.00	0.00
ATOM	533	OE1	GLU	X	35	32.061	63.275	30.547	0.00	0.00
ATOM	534	OE2	GLU	X	35	34.154	63.667	30.749	0.00	0.00
ATOM	535	C	GLU	X	35	36.367	61.702	33.758	0.00	0.00
ATOM	536	O	GLU	X	35	36.596	60.876	34.655	0.00	0.00
ATOM	537	N	PRO	X	36	37.342	62.576	33.300	0.00	0.00
ATOM	538	CD	PRO	X	36	37.367	63.415	32.171	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.981	64.409	32.399	0.00	0.00
ATOM	540	HD3	PRO	X	36	36.862	63.101	31.258	0.00	0.00
ATOM	541	CG	PRO	X	36	38.820	63.472	31.753	0.00	0.00
ATOM	542	HG2	PRO	X	36	38.948	64.439	31.267	0.00	0.00
ATOM	543	HG3	PRO	X	36	39.082	62.709	31.020	0.00	0.00
ATOM	544	CB	PRO	X	36	39.633	63.327	33.058	0.00	0.00
ATOM	545	HB2	PRO	X	36	39.663	64.274	33.597	0.00	0.00
ATOM	546	HB3	PRO	X	36	40.661	62.971	32.990	0.00	0.00
ATOM	547	CA	PRO	X	36	38.727	62.386	33.788	0.00	0.00
ATOM	548	HA	PRO	X	36	38.988	61.348	33.583	0.00	0.00
ATOM	549	C	PRO	X	36	38.801	62.560	35.331	0.00	0.00
ATOM	550	O	PRO	X	36	38.315	63.628	35.789	0.00	0.00
ATOM	551	N	PRO	X	37	39.434	61.668	36.106	0.00	0.00
ATOM	552	CD	PRO	X	37	39.864	60.239	35.741	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.619	60.230	34.956	0.00	0.00
ATOM	554	HD3	PRO	X	37	38.988	59.679	35.414	0.00	0.00
ATOM	555	CG	PRO	X	37	40.458	59.674	37.029	0.00	0.00
ATOM	556	HG2	PRO	X	37	41.487	59.990	37.198	0.00	0.00
ATOM	557	HG3	PRO	X	37	40.410	58.591	37.149	0.00	0.00
ATOM	558	CB	PRO	X	37	39.675	60.375	38.045	0.00	0.00
ATOM	559	HB2	PRO	X	37	40.234	60.362	38.981	0.00	0.00
ATOM	560	HB3	PRO	X	37	38.635	60.050	38.072	0.00	0.00
ATOM	561	CA	PRO	X	37	39.539	61.796	37.534	0.00	0.00
ATOM	562	HA	PRO	X	37	38.638	62.269	37.925	0.00	0.00
ATOM	563	C	PRO	X	37	40.711	62.654	37.980	0.00	0.00
ATOM	564	O	PRO	X	37	41.008	62.725	39.169	0.00	0.00
ATOM	565	N	MET	X	38	41.366	63.373	37.079	0.00	0.00
ATOM	566	H	MET	X	38	41.162	63.210	36.103	0.00	0.00
ATOM	567	CA	MET	X	38	42.505	64.331	37.333	0.00	0.00
ATOM	568	HA	MET	X	38	43.359	63.775	37.718	0.00	0.00
ATOM	569	CB	MET	X	38	42.771	64.865	35.930	0.00	0.00
ATOM	570	HB2	MET	X	38	43.668	65.485	35.906	0.00	0.00
ATOM	571	HB3	MET	X	38	43.049	63.980	35.357	0.00	0.00
ATOM	572	CG	MET	X	38	41.686	65.603	35.203	0.00	0.00
ATOM	573	HG2	MET	X	38	40.786	65.006	35.357	0.00	0.00
ATOM	574	HG3	MET	X	38	41.664	66.561	35.723	0.00	0.00

ATOM	575	SD	MET	X	38	42.003	65.854	33.438	0.00	0.00
ATOM	576	CE	MET	X	38	43.790	66.299	33.398	0.00	0.00
ATOM	577	HE1	MET	X	38	44.033	66.708	32.417	0.00	0.00
ATOM	578	HE2	MET	X	38	44.066	67.030	34.158	0.00	0.00
ATOM	579	HE3	MET	X	38	44.312	65.352	33.535	0.00	0.00
ATOM	580	C	MET	X	38	42.199	65.492	38.311	0.00	0.00
ATOM	581	O	MET	X	38	41.027	65.947	38.496	0.00	0.00
ATOM	582	N	GLY	X	39	43.301	66.012	38.968	0.00	0.00
ATOM	583	H	GLY	X	39	44.180	65.516	38.932	0.00	0.00
ATOM	584	CA	GLY	X	39	43.327	67.281	39.656	0.00	0.00
ATOM	585	HA2	GLY	X	39	44.335	67.370	40.062	0.00	0.00
ATOM	586	HA3	GLY	X	39	43.218	68.128	38.978	0.00	0.00
ATOM	587	C	GLY	X	39	42.392	67.383	40.895	0.00	0.00
ATOM	588	O	GLY	X	39	42.765	66.732	41.885	0.00	0.00
ATOM	589	N	PRO	X	40	41.305	68.126	40.733	0.00	0.00
ATOM	590	CD	PRO	X	40	41.206	69.268	39.950	0.00	0.00
ATOM	591	HD2	PRO	X	40	40.864	68.965	38.960	0.00	0.00
ATOM	592	HD3	PRO	X	40	42.134	69.838	39.919	0.00	0.00
ATOM	593	CG	PRO	X	40	40.100	70.132	40.516	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.644	70.745	39.739	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.569	70.802	41.236	0.00	0.00
ATOM	596	CB	PRO	X	40	39.207	69.144	41.172	0.00	0.00
ATOM	597	HB2	PRO	X	40	38.583	68.620	40.448	0.00	0.00
ATOM	598	HB3	PRO	X	40	38.538	69.563	41.924	0.00	0.00
ATOM	599	CA	PRO	X	40	40.247	68.160	41.711	0.00	0.00
ATOM	600	HA	PRO	X	40	40.691	68.575	42.616	0.00	0.00
ATOM	601	C	PRO	X	40	39.598	66.846	42.004	0.00	0.00
ATOM	602	O	PRO	X	40	39.169	66.657	43.146	0.00	0.00
ATOM	603	N	ARG	X	41	39.324	65.965	41.032	0.00	0.00
ATOM	604	H	ARG	X	41	39.589	66.259	40.102	0.00	0.00
ATOM	605	CA	ARG	X	41	38.781	64.667	41.150	0.00	0.00
ATOM	606	HA	ARG	X	41	37.987	64.840	41.876	0.00	0.00
ATOM	607	CB	ARG	X	41	38.155	64.228	39.772	0.00	0.00
ATOM	608	HB2	ARG	X	41	38.892	64.058	38.987	0.00	0.00
ATOM	609	HB3	ARG	X	41	37.578	63.317	39.933	0.00	0.00
ATOM	610	CG	ARG	X	41	37.097	65.324	39.279	0.00	0.00
ATOM	611	HG2	ARG	X	41	36.499	65.617	40.142	0.00	0.00
ATOM	612	HG3	ARG	X	41	37.571	66.154	38.754	0.00	0.00
ATOM	613	CD	ARG	X	41	36.177	64.552	38.245	0.00	0.00
ATOM	614	HD2	ARG	X	41	36.800	64.086	37.482	0.00	0.00
ATOM	615	HD3	ARG	X	41	35.463	63.875	38.713	0.00	0.00
ATOM	616	NE	ARG	X	41	35.339	65.507	37.483	0.00	0.00
ATOM	617	HE	ARG	X	41	34.407	65.749	37.788	0.00	0.00
ATOM	618	CZ	ARG	X	41	35.697	66.219	36.493	0.00	0.00
ATOM	619	NH1	ARG	X	41	36.839	65.983	35.873	0.00	0.00
ATOM	620	HH11	ARG	X	41	37.460	65.224	36.118	0.00	0.00
ATOM	621	HH12	ARG	X	41	37.190	66.468	35.060	0.00	0.00
ATOM	622	NH2	ARG	X	41	34.931	67.197	36.075	0.00	0.00
ATOM	623	HH21	ARG	X	41	34.018	67.358	36.477	0.00	0.00
ATOM	624	HH22	ARG	X	41	35.248	67.930	35.457	0.00	0.00
ATOM	625	C	ARG	X	41	39.668	63.655	41.696	0.00	0.00
ATOM	626	O	ARG	X	41	39.271	62.584	42.097	0.00	0.00
ATOM	627	N	ARG	X	42	40.986	63.923	41.930	0.00	0.00
ATOM	628	H	ARG	X	42	41.236	64.863	41.655	0.00	0.00
ATOM	629	CA	ARG	X	42	42.012	63.066	42.499	0.00	0.00
ATOM	630	HA	ARG	X	42	42.146	62.096	42.020	0.00	0.00
ATOM	631	CB	ARG	X	42	43.338	63.800	42.241	0.00	0.00
ATOM	632	HB2	ARG	X	42	43.345	64.284	41.265	0.00	0.00
ATOM	633	HB3	ARG	X	42	43.446	64.564	43.011	0.00	0.00
ATOM	634	CG	ARG	X	42	44.587	62.922	42.375	0.00	0.00
ATOM	635	HG2	ARG	X	42	44.287	62.234	43.166	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.677	62.181	41.581	0.00	0.00
ATOM	637	CD	ARG	X	42	45.940	63.660	42.726	0.00	0.00
ATOM	638	HD2	ARG	X	42	45.834	64.251	43.636	0.00	0.00
ATOM	639	HD3	ARG	X	42	46.768	62.982	42.934	0.00	0.00
ATOM	640	NE	ARG	X	42	46.220	64.384	41.486	0.00	0.00
ATOM	641	HE	ARG	X	42	45.793	64.037	40.639	0.00	0.00

ATOM	642	CZ	ARG	X	42	47.353	65.069	41.317	0.00	0.00
ATOM	643	NH1	ARG	X	42	48.029	65.532	42.404	0.00	0.00
ATOM	644	HH11	ARG	X	42	47.610	65.292	43.291	0.00	0.00
ATOM	645	HH12	ARG	X	42	48.836	66.131	42.309	0.00	0.00
ATOM	646	NH2	ARG	X	42	47.787	65.429	40.078	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.237	65.249	39.250	0.00	0.00
ATOM	648	HH22	ARG	X	42	48.573	66.051	39.962	0.00	0.00
ATOM	649	C	ARG	X	42	41.602	62.747	43.947	0.00	0.00
ATOM	650	O	ARG	X	42	41.483	63.720	44.686	0.00	0.00
ATOM	651	N	PHE	X	43	41.466	61.439	44.355	0.00	0.00
ATOM	652	H	PHE	X	43	41.588	60.800	43.583	0.00	0.00
ATOM	653	CA	PHE	X	43	41.191	60.853	45.711	0.00	0.00
ATOM	654	HA	PHE	X	43	41.452	59.802	45.587	0.00	0.00
ATOM	655	CB	PHE	X	43	41.913	61.537	46.853	0.00	0.00
ATOM	656	HB2	PHE	X	43	41.370	62.384	47.272	0.00	0.00
ATOM	657	HB3	PHE	X	43	42.095	60.869	47.695	0.00	0.00
ATOM	658	CG	PHE	X	43	43.341	61.984	46.512	0.00	0.00
ATOM	659	CD1	PHE	X	43	44.226	61.066	45.872	0.00	0.00
ATOM	660	HD1	PHE	X	43	43.768	60.142	45.552	0.00	0.00
ATOM	661	CE1	PHE	X	43	45.604	61.353	45.640	0.00	0.00
ATOM	662	HE1	PHE	X	43	46.176	60.545	45.207	0.00	0.00
ATOM	663	CZ	PHE	X	43	46.084	62.603	46.069	0.00	0.00
ATOM	664	HZ	PHE	X	43	47.056	62.989	45.799	0.00	0.00
ATOM	665	CE2	PHE	X	43	45.239	63.546	46.650	0.00	0.00
ATOM	666	HE2	PHE	X	43	45.692	64.475	46.963	0.00	0.00
ATOM	667	CD2	PHE	X	43	43.872	63.222	46.928	0.00	0.00
ATOM	668	HD2	PHE	X	43	43.214	63.900	47.450	0.00	0.00
ATOM	669	C	PHE	X	43	39.652	60.823	45.945	0.00	0.00
ATOM	670	O	PHE	X	43	39.255	60.561	47.116	0.00	0.00
ATOM	671	N	LEU	X	44	38.700	61.064	45.007	0.00	0.00
ATOM	672	H	LEU	X	44	39.045	61.366	44.106	0.00	0.00
ATOM	673	CA	LEU	X	44	37.322	61.234	45.166	0.00	0.00
ATOM	674	HA	LEU	X	44	37.127	61.042	46.222	0.00	0.00
ATOM	675	CB	LEU	X	44	36.956	62.764	44.863	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.368	63.170	43.939	0.00	0.00
ATOM	677	HB3	LEU	X	44	35.878	62.850	44.724	0.00	0.00
ATOM	678	CG	LEU	X	44	37.344	63.712	46.040	0.00	0.00
ATOM	679	HG	LEU	X	44	38.419	63.596	46.175	0.00	0.00
ATOM	680	CD1	LEU	X	44	37.047	65.149	45.626	0.00	0.00
ATOM	681	HD11	LEU	X	44	36.076	65.090	45.135	0.00	0.00
ATOM	682	HD12	LEU	X	44	37.734	65.421	44.824	0.00	0.00
ATOM	683	HD13	LEU	X	44	37.198	65.906	46.395	0.00	0.00
ATOM	684	CD2	LEU	X	44	36.653	63.454	47.376	0.00	0.00
ATOM	685	HD21	LEU	X	44	36.883	64.305	48.018	0.00	0.00
ATOM	686	HD22	LEU	X	44	35.571	63.360	47.283	0.00	0.00
ATOM	687	HD23	LEU	X	44	37.082	62.598	47.897	0.00	0.00
ATOM	688	C	LEU	X	44	36.507	60.263	44.310	0.00	0.00
ATOM	689	O	LEU	X	44	36.945	60.022	43.170	0.00	0.00
ATOM	690	N	PRO	X	45	35.223	59.930	44.697	0.00	0.00
ATOM	691	CD	PRO	X	45	34.527	60.433	45.866	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.248	61.480	45.750	0.00	0.00
ATOM	693	HD3	PRO	X	45	35.135	60.270	46.755	0.00	0.00
ATOM	694	CG	PRO	X	45	33.297	59.657	46.020	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.439	60.219	46.389	0.00	0.00
ATOM	696	HG3	PRO	X	45	33.475	58.797	46.665	0.00	0.00
ATOM	697	CB	PRO	X	45	32.989	59.063	44.620	0.00	0.00
ATOM	698	HB2	PRO	X	45	32.216	59.706	44.199	0.00	0.00
ATOM	699	HB3	PRO	X	45	32.587	58.053	44.695	0.00	0.00
ATOM	700	CA	PRO	X	45	34.311	59.159	43.864	0.00	0.00
ATOM	701	HA	PRO	X	45	34.739	58.159	43.787	0.00	0.00
ATOM	702	C	PRO	X	45	34.207	59.721	42.390	0.00	0.00
ATOM	703	O	PRO	X	45	34.118	60.969	42.278	0.00	0.00
ATOM	704	N	PRO	X	46	34.308	58.894	41.337	0.00	0.00
ATOM	705	CD	PRO	X	46	34.264	57.467	41.394	0.00	0.00
ATOM	706	HD2	PRO	X	46	33.312	57.206	41.855	0.00	0.00
ATOM	707	HD3	PRO	X	46	35.082	56.983	41.928	0.00	0.00
ATOM	708	CG	PRO	X	46	34.292	56.943	39.956	0.00	0.00

ATOM	709	HG2	PRO	X	46	33.284	56.728	39.601	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.901	56.039	39.980	0.00	0.00
ATOM	711	CB	PRO	X	46	35.018	58.063	39.153	0.00	0.00
ATOM	712	HB2	PRO	X	46	34.769	58.133	38.094	0.00	0.00
ATOM	713	HB3	PRO	X	46	36.103	58.067	39.259	0.00	0.00
ATOM	714	CA	PRO	X	46	34.457	59.303	39.924	0.00	0.00
ATOM	715	HA	PRO	X	46	35.103	60.169	39.780	0.00	0.00
ATOM	716	C	PRO	X	46	33.049	59.679	39.417	0.00	0.00
ATOM	717	O	PRO	X	46	32.054	59.221	40.032	0.00	0.00
ATOM	718	N	GLU	X	47	32.921	60.393	38.308	0.00	0.00
ATOM	719	H	GLU	X	47	33.770	60.571	37.791	0.00	0.00
ATOM	720	CA	GLU	X	47	31.690	60.919	37.814	0.00	0.00
ATOM	721	HA	GLU	X	47	30.864	60.515	38.399	0.00	0.00
ATOM	722	CB	GLU	X	47	31.506	62.439	37.692	0.00	0.00
ATOM	723	HB2	GLU	X	47	32.332	62.876	37.130	0.00	0.00
ATOM	724	HB3	GLU	X	47	30.595	62.649	37.131	0.00	0.00
ATOM	725	CG	GLU	X	47	31.254	63.109	39.080	0.00	0.00
ATOM	726	HG2	GLU	X	47	31.880	62.714	39.881	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.468	64.171	38.963	0.00	0.00
ATOM	728	CD	GLU	X	47	29.692	63.204	39.387	0.00	0.00
ATOM	729	OE1	GLU	X	47	28.948	63.890	38.619	0.00	0.00
ATOM	730	OE2	GLU	X	47	29.207	62.571	40.338	0.00	0.00
ATOM	731	C	GLU	X	47	31.467	60.310	36.391	0.00	0.00
ATOM	732	O	GLU	X	47	32.422	60.137	35.626	0.00	0.00
ATOM	733	N	PRO	X	48	30.214	59.855	36.098	0.00	0.00
ATOM	734	CD	PRO	X	48	28.962	59.955	36.891	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.838	60.909	37.404	0.00	0.00
ATOM	736	HD3	PRO	X	48	28.973	59.137	37.611	0.00	0.00
ATOM	737	CG	PRO	X	48	27.792	59.845	35.947	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.532	60.819	35.534	0.00	0.00
ATOM	739	HG3	PRO	X	48	26.906	59.389	36.389	0.00	0.00
ATOM	740	CB	PRO	X	48	28.370	58.883	34.875	0.00	0.00
ATOM	741	HB2	PRO	X	48	27.933	59.146	33.912	0.00	0.00
ATOM	742	HB3	PRO	X	48	28.064	57.895	35.220	0.00	0.00
ATOM	743	CA	PRO	X	48	29.904	59.222	34.805	0.00	0.00
ATOM	744	HA	PRO	X	48	30.448	58.295	34.627	0.00	0.00
ATOM	745	C	PRO	X	48	30.080	60.068	33.553	0.00	0.00
ATOM	746	O	PRO	X	48	29.899	61.280	33.565	0.00	0.00
ATOM	747	N	LYS	X	49	30.375	59.443	32.398	0.00	0.00
ATOM	748	H	LYS	X	49	30.270	58.441	32.331	0.00	0.00
ATOM	749	CA	LYS	X	49	30.679	60.045	31.078	0.00	0.00
ATOM	750	HA	LYS	X	49	31.420	60.803	31.332	0.00	0.00
ATOM	751	CB	LYS	X	49	31.435	59.065	30.201	0.00	0.00
ATOM	752	HB2	LYS	X	49	32.462	59.152	30.556	0.00	0.00
ATOM	753	HB3	LYS	X	49	30.952	58.093	30.296	0.00	0.00
ATOM	754	CG	LYS	X	49	31.480	59.387	28.683	0.00	0.00
ATOM	755	HG2	LYS	X	49	31.880	58.487	28.216	0.00	0.00
ATOM	756	HG3	LYS	X	49	30.486	59.457	28.240	0.00	0.00
ATOM	757	CD	LYS	X	49	32.075	60.738	28.287	0.00	0.00
ATOM	758	HD2	LYS	X	49	32.050	60.886	27.208	0.00	0.00
ATOM	759	HD3	LYS	X	49	31.570	61.587	28.748	0.00	0.00
ATOM	760	CE	LYS	X	49	33.479	60.693	28.660	0.00	0.00
ATOM	761	HE2	LYS	X	49	33.566	60.376	29.699	0.00	0.00
ATOM	762	HE3	LYS	X	49	34.041	60.027	28.005	0.00	0.00
ATOM	763	NZ	LYS	X	49	34.137	62.003	28.691	0.00	0.00
ATOM	764	HZ1	LYS	X	49	33.675	62.626	29.338	0.00	0.00
ATOM	765	HZ2	LYS	X	49	35.047	61.813	29.086	0.00	0.00
ATOM	766	HZ3	LYS	X	49	34.241	62.423	27.778	0.00	0.00
ATOM	767	C	LYS	X	49	29.368	60.664	30.509	0.00	0.00
ATOM	768	O	LYS	X	49	28.437	59.961	30.218	0.00	0.00
ATOM	769	N	GLN	X	50	29.471	61.982	30.253	0.00	0.00
ATOM	770	H	GLN	X	50	30.355	62.423	30.464	0.00	0.00
ATOM	771	CA	GLN	X	50	28.456	62.737	29.417	0.00	0.00
ATOM	772	HA	GLN	X	50	27.461	62.550	29.820	0.00	0.00
ATOM	773	CB	GLN	X	50	28.788	64.184	29.435	0.00	0.00
ATOM	774	HB2	GLN	X	50	27.871	64.769	29.368	0.00	0.00
ATOM	775	HB3	GLN	X	50	29.215	64.382	30.418	0.00	0.00

ATOM	776	CG	GLN	X	50	29.841	64.634	28.417	0.00	0.00
ATOM	777	HG2	GLN	X	50	30.635	63.888	28.429	0.00	0.00
ATOM	778	HG3	GLN	X	50	29.466	64.713	27.397	0.00	0.00
ATOM	779	CD	GLN	X	50	30.504	66.004	28.891	0.00	0.00
ATOM	780	OE1	GLN	X	50	30.063	67.154	28.663	0.00	0.00
ATOM	781	NE2	GLN	X	50	31.586	65.905	29.604	0.00	0.00
ATOM	782	HE21	GLN	X	50	32.020	66.702	30.047	0.00	0.00
ATOM	783	HE22	GLN	X	50	31.828	64.973	29.907	0.00	0.00
ATOM	784	C	GLN	X	50	28.425	62.190	27.913	0.00	0.00
ATOM	785	O	GLN	X	50	29.436	61.848	27.388	0.00	0.00
ATOM	786	N	PRO	X	51	27.289	62.138	27.236	0.00	0.00
ATOM	787	CD	PRO	X	51	25.967	62.434	27.773	0.00	0.00
ATOM	788	HD2	PRO	X	51	25.869	63.367	28.329	0.00	0.00
ATOM	789	HD3	PRO	X	51	25.720	61.560	28.376	0.00	0.00
ATOM	790	CG	PRO	X	51	25.095	62.597	26.523	0.00	0.00
ATOM	791	HG2	PRO	X	51	25.181	63.614	26.140	0.00	0.00
ATOM	792	HG3	PRO	X	51	24.045	62.345	26.670	0.00	0.00
ATOM	793	CB	PRO	X	51	25.703	61.643	25.523	0.00	0.00
ATOM	794	HB2	PRO	X	51	25.409	61.926	24.513	0.00	0.00
ATOM	795	HB3	PRO	X	51	25.394	60.630	25.779	0.00	0.00
ATOM	796	CA	PRO	X	51	27.162	61.708	25.810	0.00	0.00
ATOM	797	HA	PRO	X	51	27.609	60.715	25.855	0.00	0.00
ATOM	798	C	PRO	X	51	27.968	62.506	24.764	0.00	0.00
ATOM	799	O	PRO	X	51	28.283	63.650	24.932	0.00	0.00
ATOM	800	N	TRP	X	52	28.267	61.868	23.633	0.00	0.00
ATOM	801	H	TRP	X	52	27.879	60.939	23.549	0.00	0.00
ATOM	802	CA	TRP	X	52	28.970	62.418	22.483	0.00	0.00
ATOM	803	HA	TRP	X	52	29.202	63.447	22.759	0.00	0.00
ATOM	804	CB	TRP	X	52	30.305	61.765	22.354	0.00	0.00
ATOM	805	HB2	TRP	X	52	30.925	62.360	21.683	0.00	0.00
ATOM	806	HB3	TRP	X	52	30.854	61.743	23.295	0.00	0.00
ATOM	807	CG	TRP	X	52	30.261	60.290	22.039	0.00	0.00
ATOM	808	CD1	TRP	X	52	30.195	59.731	20.809	0.00	0.00
ATOM	809	HD1	TRP	X	52	30.133	60.294	19.890	0.00	0.00
ATOM	810	NE1	TRP	X	52	30.262	58.404	20.905	0.00	0.00
ATOM	811	HE1	TRP	X	52	30.296	57.811	20.088	0.00	0.00
ATOM	812	CE2	TRP	X	52	30.298	57.959	22.236	0.00	0.00
ATOM	813	CZ2	TRP	X	52	30.142	56.756	22.865	0.00	0.00
ATOM	814	HZ2	TRP	X	52	29.888	55.843	22.346	0.00	0.00
ATOM	815	CH2	TRP	X	52	30.077	56.696	24.300	0.00	0.00
ATOM	816	HH2	TRP	X	52	30.025	55.787	24.881	0.00	0.00
ATOM	817	CZ3	TRP	X	52	30.251	57.877	25.029	0.00	0.00
ATOM	818	HZ3	TRP	X	52	30.417	57.813	26.094	0.00	0.00
ATOM	819	CE3	TRP	X	52	30.328	59.130	24.345	0.00	0.00
ATOM	820	HE3	TRP	X	52	30.381	60.026	24.945	0.00	0.00
ATOM	821	CD2	TRP	X	52	30.233	59.177	22.963	0.00	0.00
ATOM	822	C	TRP	X	52	28.217	62.348	21.243	0.00	0.00
ATOM	823	O	TRP	X	52	27.371	61.500	20.954	0.00	0.00
ATOM	824	N	SER	X	53	28.535	63.291	20.342	0.00	0.00
ATOM	825	H	SER	X	53	29.368	63.830	20.530	0.00	0.00
ATOM	826	CA	SER	X	53	28.089	63.214	18.911	0.00	0.00
ATOM	827	HA	SER	X	53	27.149	62.685	18.753	0.00	0.00
ATOM	828	CB	SER	X	53	28.048	64.580	18.172	0.00	0.00
ATOM	829	HB2	SER	X	53	28.948	65.134	18.440	0.00	0.00
ATOM	830	HB3	SER	X	53	27.986	64.315	17.117	0.00	0.00
ATOM	831	OG	SER	X	53	26.925	65.402	18.559	0.00	0.00
ATOM	832	HG	SER	X	53	26.161	64.825	18.490	0.00	0.00
ATOM	833	C	SER	X	53	29.087	62.393	18.173	0.00	0.00
ATOM	834	O	SER	X	53	30.307	62.557	18.305	0.00	0.00
ATOM	835	N	GLY	X	54	28.683	61.465	17.282	0.00	0.00
ATOM	836	H	GLY	X	54	27.691	61.325	17.152	0.00	0.00
ATOM	837	CA	GLY	X	54	29.482	60.742	16.308	0.00	0.00
ATOM	838	HA2	GLY	X	54	28.878	60.524	15.428	0.00	0.00
ATOM	839	HA3	GLY	X	54	30.271	61.443	16.036	0.00	0.00
ATOM	840	C	GLY	X	54	30.126	59.431	16.787	0.00	0.00
ATOM	841	O	GLY	X	54	29.763	58.924	17.827	0.00	0.00
ATOM	842	N	VAL	X	55	31.028	58.896	16.008	0.00	0.00

ATOM	843	H	VAL	X	55	31.386	59.399	15.208	0.00	0.00
ATOM	844	CA	VAL	X	55	31.884	57.682	16.337	0.00	0.00
ATOM	845	HA	VAL	X	55	31.256	56.923	16.804	0.00	0.00
ATOM	846	CB	VAL	X	55	32.341	56.890	15.115	0.00	0.00
ATOM	847	HB	VAL	X	55	32.716	57.591	14.370	0.00	0.00
ATOM	848	CG1	VAL	X	55	33.443	55.859	15.310	0.00	0.00
ATOM	849	HG11	VAL	X	55	33.342	55.198	16.171	0.00	0.00
ATOM	850	HG12	VAL	X	55	33.500	55.241	14.414	0.00	0.00
ATOM	851	HG13	VAL	X	55	34.316	56.493	15.459	0.00	0.00
ATOM	852	CG2	VAL	X	55	31.208	56.162	14.397	0.00	0.00
ATOM	853	HG21	VAL	X	55	30.365	56.762	14.054	0.00	0.00
ATOM	854	HG22	VAL	X	55	30.861	55.358	15.046	0.00	0.00
ATOM	855	HG23	VAL	X	55	31.568	55.748	13.456	0.00	0.00
ATOM	856	C	VAL	X	55	32.979	58.113	17.343	0.00	0.00
ATOM	857	O	VAL	X	55	33.935	58.753	16.864	0.00	0.00
ATOM	858	N	VAL	X	56	32.934	57.731	18.590	0.00	0.00
ATOM	859	H	VAL	X	56	32.123	57.341	19.047	0.00	0.00
ATOM	860	CA	VAL	X	56	34.152	57.702	19.319	0.00	0.00
ATOM	861	HA	VAL	X	56	34.801	58.538	19.059	0.00	0.00
ATOM	862	CB	VAL	X	56	34.047	57.882	20.835	0.00	0.00
ATOM	863	HB	VAL	X	56	33.308	57.146	21.153	0.00	0.00
ATOM	864	CG1	VAL	X	56	35.307	57.654	21.594	0.00	0.00
ATOM	865	HG11	VAL	X	56	35.044	57.823	22.638	0.00	0.00
ATOM	866	HG12	VAL	X	56	35.674	56.631	21.511	0.00	0.00
ATOM	867	HG13	VAL	X	56	36.078	58.379	21.332	0.00	0.00
ATOM	868	CG2	VAL	X	56	33.535	59.244	21.129	0.00	0.00
ATOM	869	HG21	VAL	X	56	34.292	59.855	21.621	0.00	0.00
ATOM	870	HG22	VAL	X	56	32.701	59.289	21.831	0.00	0.00
ATOM	871	HG23	VAL	X	56	33.089	59.840	20.333	0.00	0.00
ATOM	872	C	VAL	X	56	34.845	56.406	18.864	0.00	0.00
ATOM	873	O	VAL	X	56	34.240	55.356	18.632	0.00	0.00
ATOM	874	N	ASP	X	57	36.114	56.482	18.635	0.00	0.00
ATOM	875	H	ASP	X	57	36.662	57.255	18.985	0.00	0.00
ATOM	876	CA	ASP	X	57	36.928	55.365	18.233	0.00	0.00
ATOM	877	HA	ASP	X	57	36.464	54.750	17.461	0.00	0.00
ATOM	878	CB	ASP	X	57	38.270	55.866	17.610	0.00	0.00
ATOM	879	HB2	ASP	X	57	38.038	56.508	16.761	0.00	0.00
ATOM	880	HB3	ASP	X	57	38.832	56.450	18.340	0.00	0.00
ATOM	881	CG	ASP	X	57	39.164	54.660	17.293	0.00	0.00
ATOM	882	OD1	ASP	X	57	39.000	54.122	16.175	0.00	0.00
ATOM	883	OD2	ASP	X	57	39.969	54.223	18.149	0.00	0.00
ATOM	884	C	ASP	X	57	37.156	54.406	19.447	0.00	0.00
ATOM	885	O	ASP	X	57	37.483	54.884	20.508	0.00	0.00
ATOM	886	N	ALA	X	58	37.038	53.121	19.282	0.00	0.00
ATOM	887	H	ALA	X	58	36.650	52.845	18.391	0.00	0.00
ATOM	888	CA	ALA	X	58	37.260	52.100	20.287	0.00	0.00
ATOM	889	HA	ALA	X	58	37.667	52.529	21.202	0.00	0.00
ATOM	890	CB	ALA	X	58	35.891	51.376	20.671	0.00	0.00
ATOM	891	HB1	ALA	X	58	36.159	50.637	21.426	0.00	0.00
ATOM	892	HB2	ALA	X	58	35.508	50.836	19.806	0.00	0.00
ATOM	893	HB3	ALA	X	58	35.139	52.051	21.080	0.00	0.00
ATOM	894	C	ALA	X	58	38.325	51.068	19.800	0.00	0.00
ATOM	895	O	ALA	X	58	38.071	49.856	19.757	0.00	0.00
ATOM	896	N	THR	X	59	39.507	51.558	19.429	0.00	0.00
ATOM	897	H	THR	X	59	39.756	52.534	19.498	0.00	0.00
ATOM	898	CA	THR	X	59	40.472	50.628	18.764	0.00	0.00
ATOM	899	HA	THR	X	59	39.939	49.765	18.365	0.00	0.00
ATOM	900	CB	THR	X	59	41.168	51.189	17.510	0.00	0.00
ATOM	901	HB	THR	X	59	41.951	50.549	17.102	0.00	0.00
ATOM	902	CG2	THR	X	59	40.119	51.265	16.405	0.00	0.00
ATOM	903	HG21	THR	X	59	39.206	51.630	16.874	0.00	0.00
ATOM	904	HG22	THR	X	59	39.923	50.264	16.019	0.00	0.00
ATOM	905	HG23	THR	X	59	40.579	51.937	15.680	0.00	0.00
ATOM	906	OG1	THR	X	59	41.798	52.419	17.769	0.00	0.00
ATOM	907	HG1	THR	X	59	41.184	53.090	18.078	0.00	0.00
ATOM	908	C	THR	X	59	41.606	49.954	19.551	0.00	0.00
ATOM	909	O	THR	X	59	41.977	48.846	19.173	0.00	0.00

ATOM	910	N	THR	X	60	42.044	50.642	20.615	0.00	0.00
ATOM	911	H	THR	X	60	41.438	51.380	20.944	0.00	0.00
ATOM	912	CA	THR	X	60	43.154	50.270	21.453	0.00	0.00
ATOM	913	HA	THR	X	60	42.999	49.219	21.694	0.00	0.00
ATOM	914	CB	THR	X	60	44.476	50.446	20.655	0.00	0.00
ATOM	915	HB	THR	X	60	44.508	50.055	19.638	0.00	0.00
ATOM	916	CG2	THR	X	60	44.986	51.876	20.472	0.00	0.00
ATOM	917	HG21	THR	X	60	45.054	52.381	21.435	0.00	0.00
ATOM	918	HG22	THR	X	60	44.273	52.517	19.955	0.00	0.00
ATOM	919	HG23	THR	X	60	45.900	51.806	19.882	0.00	0.00
ATOM	920	OG1	THR	X	60	45.473	49.722	21.324	0.00	0.00
ATOM	921	HG1	THR	X	60	45.547	48.843	20.945	0.00	0.00
ATOM	922	C	THR	X	60	43.094	50.938	22.833	0.00	0.00
ATOM	923	O	THR	X	60	42.261	51.790	23.050	0.00	0.00
ATOM	924	N	PHE	X	61	44.082	50.690	23.734	0.00	0.00
ATOM	925	H	PHE	X	61	44.804	50.028	23.486	0.00	0.00
ATOM	926	CA	PHE	X	61	44.203	51.402	25.021	0.00	0.00
ATOM	927	HA	PHE	X	61	43.202	51.527	25.434	0.00	0.00
ATOM	928	CB	PHE	X	61	45.051	50.609	25.982	0.00	0.00
ATOM	929	HB2	PHE	X	61	46.104	50.638	25.705	0.00	0.00
ATOM	930	HB3	PHE	X	61	45.024	51.133	26.938	0.00	0.00
ATOM	931	CG	PHE	X	61	44.676	49.162	26.129	0.00	0.00
ATOM	932	CD1	PHE	X	61	43.507	48.775	26.846	0.00	0.00
ATOM	933	HD1	PHE	X	61	42.977	49.571	27.348	0.00	0.00
ATOM	934	CE1	PHE	X	61	43.083	47.439	26.873	0.00	0.00
ATOM	935	HE1	PHE	X	61	42.210	47.212	27.467	0.00	0.00
ATOM	936	CZ	PHE	X	61	43.846	46.508	26.084	0.00	0.00
ATOM	937	HZ	PHE	X	61	43.565	45.466	26.058	0.00	0.00
ATOM	938	CE2	PHE	X	61	44.969	46.939	25.323	0.00	0.00
ATOM	939	HE2	PHE	X	61	45.455	46.201	24.702	0.00	0.00
ATOM	940	CD2	PHE	X	61	45.346	48.240	25.309	0.00	0.00
ATOM	941	HD2	PHE	X	61	46.125	48.586	24.645	0.00	0.00
ATOM	942	C	PHE	X	61	44.817	52.772	24.642	0.00	0.00
ATOM	943	O	PHE	X	61	45.688	52.949	23.841	0.00	0.00
ATOM	944	N	GLN	X	62	44.315	53.818	25.284	0.00	0.00
ATOM	945	H	GLN	X	62	43.720	53.548	26.055	0.00	0.00
ATOM	946	CA	GLN	X	62	44.686	55.272	25.153	0.00	0.00
ATOM	947	HA	GLN	X	62	45.116	55.415	24.162	0.00	0.00
ATOM	948	CB	GLN	X	62	43.412	56.107	25.344	0.00	0.00
ATOM	949	HB2	GLN	X	62	42.993	56.101	26.350	0.00	0.00
ATOM	950	HB3	GLN	X	62	43.796	57.109	25.151	0.00	0.00
ATOM	951	CG	GLN	X	62	42.203	56.159	24.392	0.00	0.00
ATOM	952	HG2	GLN	X	62	41.730	55.180	24.316	0.00	0.00
ATOM	953	HG3	GLN	X	62	41.440	56.814	24.813	0.00	0.00
ATOM	954	CD	GLN	X	62	42.521	56.622	22.991	0.00	0.00
ATOM	955	OE1	GLN	X	62	42.597	55.901	22.051	0.00	0.00
ATOM	956	NE2	GLN	X	62	42.624	57.953	22.775	0.00	0.00
ATOM	957	HE21	GLN	X	62	42.593	58.259	21.813	0.00	0.00
ATOM	958	HE22	GLN	X	62	42.462	58.590	23.542	0.00	0.00
ATOM	959	C	GLN	X	62	45.671	55.693	26.242	0.00	0.00
ATOM	960	O	GLN	X	62	46.730	56.324	25.975	0.00	0.00
ATOM	961	N	SER	X	63	45.583	55.267	27.512	0.00	0.00
ATOM	962	H	SER	X	63	44.874	54.604	27.791	0.00	0.00
ATOM	963	CA	SER	X	63	46.463	55.498	28.661	0.00	0.00
ATOM	964	HA	SER	X	63	47.419	55.287	28.183	0.00	0.00
ATOM	965	CB	SER	X	63	46.389	56.928	29.147	0.00	0.00
ATOM	966	HB2	SER	X	63	47.000	57.066	30.039	0.00	0.00
ATOM	967	HB3	SER	X	63	46.871	57.585	28.423	0.00	0.00
ATOM	968	OG	SER	X	63	45.057	57.206	29.430	0.00	0.00
ATOM	969	HG	SER	X	63	44.689	57.669	28.674	0.00	0.00
ATOM	970	C	SER	X	63	46.274	54.489	29.820	0.00	0.00
ATOM	971	O	SER	X	63	45.356	53.675	29.695	0.00	0.00
ATOM	972	N	VAL	X	64	46.990	54.554	30.964	0.00	0.00
ATOM	973	H	VAL	X	64	47.837	55.103	30.919	0.00	0.00
ATOM	974	CA	VAL	X	64	46.668	53.872	32.233	0.00	0.00
ATOM	975	HA	VAL	X	64	45.595	53.775	32.399	0.00	0.00
ATOM	976	CB	VAL	X	64	47.499	52.493	32.424	0.00	0.00

ATOM	977	HB	VAL	X	64	47.216	52.039	33.373	0.00	0.00
ATOM	978	CG1	VAL	X	64	47.180	51.560	31.231	0.00	0.00
ATOM	979	HG11	VAL	X	64	47.725	51.978	30.386	0.00	0.00
ATOM	980	HG12	VAL	X	64	47.608	50.592	31.492	0.00	0.00
ATOM	981	HG13	VAL	X	64	46.094	51.535	31.131	0.00	0.00
ATOM	982	CG2	VAL	X	64	48.991	52.725	32.498	0.00	0.00
ATOM	983	HG21	VAL	X	64	49.346	53.289	31.637	0.00	0.00
ATOM	984	HG22	VAL	X	64	49.536	51.784	32.578	0.00	0.00
ATOM	985	HG23	VAL	X	64	49.134	53.393	33.348	0.00	0.00
ATOM	986	C	VAL	X	64	47.053	54.829	33.433	0.00	0.00
ATOM	987	O	VAL	X	64	47.582	55.963	33.230	0.00	0.00
ATOM	988	N	CYX	X	65	46.535	54.530	34.635	0.00	0.00
ATOM	989	H	CYX	X	65	46.074	53.646	34.794	0.00	0.00
ATOM	990	CA	CYX	X	65	46.678	55.453	35.718	0.00	0.00
ATOM	991	HA	CYX	X	65	46.605	56.449	35.282	0.00	0.00
ATOM	992	CB	CYX	X	65	45.621	55.182	36.811	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.876	54.247	37.309	0.00	0.00
ATOM	994	HB3	CYX	X	65	45.639	55.920	37.613	0.00	0.00
ATOM	995	SG	CYX	X	65	43.907	55.164	36.337	0.00	0.00
ATOM	996	C	CYX	X	65	48.094	55.477	36.289	0.00	0.00
ATOM	997	O	CYX	X	65	48.747	54.400	36.410	0.00	0.00
ATOM	998	N	TYR	X	66	48.634	56.629	36.677	0.00	0.00
ATOM	999	H	TYR	X	66	48.159	57.479	36.411	0.00	0.00
ATOM	1000	CA	TYR	X	66	49.931	56.847	37.323	0.00	0.00
ATOM	1001	HA	TYR	X	66	50.784	56.726	36.656	0.00	0.00
ATOM	1002	CB	TYR	X	66	50.085	58.282	37.900	0.00	0.00
ATOM	1003	HB2	TYR	X	66	49.103	58.585	38.265	0.00	0.00
ATOM	1004	HB3	TYR	X	66	50.830	58.310	38.695	0.00	0.00
ATOM	1005	CG	TYR	X	66	50.508	59.198	36.777	0.00	0.00
ATOM	1006	CD1	TYR	X	66	49.601	59.845	35.984	0.00	0.00
ATOM	1007	HD1	TYR	X	66	48.555	59.897	36.248	0.00	0.00
ATOM	1008	CE1	TYR	X	66	50.046	60.658	34.927	0.00	0.00
ATOM	1009	HE1	TYR	X	66	49.284	61.290	34.495	0.00	0.00
ATOM	1010	CZ	TYR	X	66	51.399	60.866	34.648	0.00	0.00
ATOM	1011	OH	TYR	X	66	51.762	61.700	33.650	0.00	0.00
ATOM	1012	HH	TYR	X	66	51.019	62.221	33.338	0.00	0.00
ATOM	1013	CE2	TYR	X	66	52.307	60.120	35.477	0.00	0.00
ATOM	1014	HE2	TYR	X	66	53.364	60.322	35.387	0.00	0.00
ATOM	1015	CD2	TYR	X	66	51.873	59.427	36.533	0.00	0.00
ATOM	1016	HD2	TYR	X	66	52.548	59.017	37.269	0.00	0.00
ATOM	1017	C	TYR	X	66	50.076	55.863	38.530	0.00	0.00
ATOM	1018	O	TYR	X	66	49.260	55.960	39.490	0.00	0.00
ATOM	1019	N	GLN	X	67	51.136	55.086	38.441	0.00	0.00
ATOM	1020	H	GLN	X	67	51.657	55.099	37.576	0.00	0.00
ATOM	1021	CA	GLN	X	67	51.381	54.049	39.369	0.00	0.00
ATOM	1022	HA	GLN	X	67	51.121	54.574	40.288	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.633	52.745	39.054	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.873	52.000	39.813	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.551	52.811	39.166	0.00	0.00
ATOM	1026	CG	GLN	X	67	51.043	52.057	37.742	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.950	52.783	36.935	0.00	0.00
ATOM	1028	HG3	GLN	X	67	52.044	51.638	37.845	0.00	0.00
ATOM	1029	CD	GLN	X	67	50.157	50.901	37.323	0.00	0.00
ATOM	1030	OE1	GLN	X	67	50.311	49.730	37.575	0.00	0.00
ATOM	1031	NE2	GLN	X	67	48.988	51.417	36.904	0.00	0.00
ATOM	1032	HE21	GLN	X	67	48.223	50.760	36.852	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.890	52.374	36.596	0.00	0.00
ATOM	1034	C	GLN	X	67	52.916	53.832	39.325	0.00	0.00
ATOM	1035	O	GLN	X	67	53.716	54.365	38.541	0.00	0.00
ATOM	1036	N	TYR	X	68	53.386	53.057	40.295	0.00	0.00
ATOM	1037	H	TYR	X	68	52.599	52.709	40.823	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.706	52.554	40.366	0.00	0.00
ATOM	1039	HA	TYR	X	68	55.331	53.445	40.302	0.00	0.00
ATOM	1040	CB	TYR	X	68	54.917	51.881	41.775	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.689	52.564	42.593	0.00	0.00
ATOM	1042	HB3	TYR	X	68	54.194	51.065	41.735	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.277	51.255	41.899	0.00	0.00

ATOM	1044	CD1	TYR	X	68	57.271	52.101	42.291	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.081	53.161	42.368	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.630	51.596	42.371	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.386	52.290	42.707	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.780	50.167	42.403	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.936	49.528	42.721	0.00	0.00
ATOM	1050	HH	TYR	X	68	60.726	50.073	42.735	0.00	0.00
ATOM	1051	CE2	TYR	X	68	57.753	49.245	42.057	0.00	0.00
ATOM	1052	HE2	TYR	X	68	57.833	48.171	42.139	0.00	0.00
ATOM	1053	CD2	TYR	X	68	56.478	49.830	41.844	0.00	0.00
ATOM	1054	HD2	TYR	X	68	55.728	49.071	41.678	0.00	0.00
ATOM	1055	C	TYR	X	68	55.173	51.596	39.224	0.00	0.00
ATOM	1056	O	TYR	X	68	54.352	50.866	38.712	0.00	0.00
ATOM	1057	N	VAL	X	69	56.445	51.673	38.745	0.00	0.00
ATOM	1058	H	VAL	X	69	57.077	52.330	39.179	0.00	0.00
ATOM	1059	CA	VAL	X	69	57.069	50.613	37.871	0.00	0.00
ATOM	1060	HA	VAL	X	69	56.440	49.723	37.864	0.00	0.00
ATOM	1061	CB	VAL	X	69	57.425	51.044	36.429	0.00	0.00
ATOM	1062	HB	VAL	X	69	57.912	50.182	35.973	0.00	0.00
ATOM	1063	CG1	VAL	X	69	56.085	51.423	35.821	0.00	0.00
ATOM	1064	HG11	VAL	X	69	55.543	50.490	35.669	0.00	0.00
ATOM	1065	HG12	VAL	X	69	55.635	52.114	36.533	0.00	0.00
ATOM	1066	HG13	VAL	X	69	56.161	51.894	34.841	0.00	0.00
ATOM	1067	CG2	VAL	X	69	58.415	52.286	36.414	0.00	0.00
ATOM	1068	HG21	VAL	X	69	59.451	52.121	36.710	0.00	0.00
ATOM	1069	HG22	VAL	X	69	57.949	53.073	37.006	0.00	0.00
ATOM	1070	HG23	VAL	X	69	58.354	52.669	35.395	0.00	0.00
ATOM	1071	C	VAL	X	69	58.318	50.114	38.642	0.00	0.00
ATOM	1072	O	VAL	X	69	59.033	50.801	39.310	0.00	0.00
ATOM	1073	N	ASP	X	70	58.547	48.795	38.513	0.00	0.00
ATOM	1074	H	ASP	X	70	57.830	48.235	38.075	0.00	0.00
ATOM	1075	CA	ASP	X	70	59.608	48.148	39.237	0.00	0.00
ATOM	1076	HA	ASP	X	70	59.319	48.204	40.287	0.00	0.00
ATOM	1077	CB	ASP	X	70	59.579	46.637	38.873	0.00	0.00
ATOM	1078	HB2	ASP	X	70	58.537	46.567	38.560	0.00	0.00
ATOM	1079	HB3	ASP	X	70	60.208	46.454	38.001	0.00	0.00
ATOM	1080	CG	ASP	X	70	59.843	45.589	39.991	0.00	0.00
ATOM	1081	OD1	ASP	X	70	59.231	44.506	39.938	0.00	0.00
ATOM	1082	OD2	ASP	X	70	60.709	45.953	40.814	0.00	0.00
ATOM	1083	C	ASP	X	70	61.015	48.669	38.972	0.00	0.00
ATOM	1084	O	ASP	X	70	61.460	48.798	37.823	0.00	0.00
ATOM	1085	N	THR	X	71	61.690	48.871	40.119	0.00	0.00
ATOM	1086	H	THR	X	71	61.214	48.607	40.969	0.00	0.00
ATOM	1087	CA	THR	X	71	63.086	49.266	40.279	0.00	0.00
ATOM	1088	HA	THR	X	71	63.478	49.480	39.285	0.00	0.00
ATOM	1089	CB	THR	X	71	63.247	50.426	41.205	0.00	0.00
ATOM	1090	HB	THR	X	71	64.323	50.458	41.377	0.00	0.00
ATOM	1091	CG2	THR	X	71	62.796	51.765	40.539	0.00	0.00
ATOM	1092	HG21	THR	X	71	62.816	52.667	41.151	0.00	0.00
ATOM	1093	HG22	THR	X	71	61.774	51.712	40.164	0.00	0.00
ATOM	1094	HG23	THR	X	71	63.481	51.862	39.697	0.00	0.00
ATOM	1095	OG1	THR	X	71	62.629	50.148	42.478	0.00	0.00
ATOM	1096	HG1	THR	X	71	62.498	51.005	42.890	0.00	0.00
ATOM	1097	C	THR	X	71	63.922	48.086	40.667	0.00	0.00
ATOM	1098	O	THR	X	71	65.078	48.008	40.204	0.00	0.00
ATOM	1099	N	LEU	X	72	63.357	47.027	41.363	0.00	0.00
ATOM	1100	H	LEU	X	72	62.355	46.951	41.270	0.00	0.00
ATOM	1101	CA	LEU	X	72	64.090	45.923	41.982	0.00	0.00
ATOM	1102	HA	LEU	X	72	65.030	46.411	42.239	0.00	0.00
ATOM	1103	CB	LEU	X	72	63.387	45.466	43.268	0.00	0.00
ATOM	1104	HB2	LEU	X	72	62.904	46.293	43.789	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.564	44.878	42.862	0.00	0.00
ATOM	1106	CG	LEU	X	72	64.244	44.592	44.237	0.00	0.00
ATOM	1107	HG	LEU	X	72	64.659	43.759	43.669	0.00	0.00
ATOM	1108	CD1	LEU	X	72	65.341	45.306	44.893	0.00	0.00
ATOM	1109	HD11	LEU	X	72	64.921	46.070	45.548	0.00	0.00
ATOM	1110	HD12	LEU	X	72	66.006	45.727	44.139	0.00	0.00

ATOM	1111	HD13	LEU	X	72	65.878	44.493	45.382	0.00	0.00
ATOM	1112	CD2	LEU	X	72	63.197	44.012	45.216	0.00	0.00
ATOM	1113	HD21	LEU	X	72	63.701	43.629	46.103	0.00	0.00
ATOM	1114	HD22	LEU	X	72	62.489	44.793	45.495	0.00	0.00
ATOM	1115	HD23	LEU	X	72	62.635	43.181	44.789	0.00	0.00
ATOM	1116	C	LEU	X	72	64.564	44.737	41.093	0.00	0.00
ATOM	1117	O	LEU	X	72	65.723	44.363	41.294	0.00	0.00
ATOM	1118	N	TYR	X	73	63.860	44.287	40.018	0.00	0.00
ATOM	1119	H	TYR	X	73	62.987	44.776	39.877	0.00	0.00
ATOM	1120	CA	TYR	X	73	64.402	43.394	38.939	0.00	0.00
ATOM	1121	HA	TYR	X	73	65.474	43.517	38.783	0.00	0.00
ATOM	1122	CB	TYR	X	73	64.080	41.941	39.326	0.00	0.00
ATOM	1123	HB2	TYR	X	73	63.052	41.658	39.102	0.00	0.00
ATOM	1124	HB3	TYR	X	73	64.623	41.319	38.614	0.00	0.00
ATOM	1125	CG	TYR	X	73	64.439	41.651	40.837	0.00	0.00
ATOM	1126	CD1	TYR	X	73	65.730	41.441	41.257	0.00	0.00
ATOM	1127	HD1	TYR	X	73	66.577	41.444	40.587	0.00	0.00
ATOM	1128	CE1	TYR	X	73	66.130	41.235	42.626	0.00	0.00
ATOM	1129	HE1	TYR	X	73	67.160	41.055	42.896	0.00	0.00
ATOM	1130	CZ	TYR	X	73	65.106	41.143	43.587	0.00	0.00
ATOM	1131	OH	TYR	X	73	65.435	40.936	44.906	0.00	0.00
ATOM	1132	HH	TYR	X	73	64.618	40.871	45.405	0.00	0.00
ATOM	1133	CE2	TYR	X	73	63.760	41.246	43.141	0.00	0.00
ATOM	1134	HE2	TYR	X	73	62.880	41.206	43.766	0.00	0.00
ATOM	1135	CD2	TYR	X	73	63.444	41.543	41.795	0.00	0.00
ATOM	1136	HD2	TYR	X	73	62.391	41.688	41.608	0.00	0.00
ATOM	1137	C	TYR	X	73	63.665	43.793	37.617	0.00	0.00
ATOM	1138	O	TYR	X	73	62.988	42.926	36.993	0.00	0.00
ATOM	1139	N	PRO	X	74	63.674	45.020	37.090	0.00	0.00
ATOM	1140	CD	PRO	X	74	64.462	46.028	37.658	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.497	45.711	37.788	0.00	0.00
ATOM	1142	HD3	PRO	X	74	63.959	46.386	38.557	0.00	0.00
ATOM	1143	CG	PRO	X	74	64.522	47.262	36.677	0.00	0.00
ATOM	1144	HG2	PRO	X	74	65.472	47.297	36.144	0.00	0.00
ATOM	1145	HG3	PRO	X	74	64.387	48.178	37.253	0.00	0.00
ATOM	1146	CB	PRO	X	74	63.300	46.977	35.753	0.00	0.00
ATOM	1147	HB2	PRO	X	74	63.465	47.241	34.709	0.00	0.00
ATOM	1148	HB3	PRO	X	74	62.412	47.374	36.245	0.00	0.00
ATOM	1149	CA	PRO	X	74	63.168	45.444	35.749	0.00	0.00
ATOM	1150	HA	PRO	X	74	62.165	45.044	35.601	0.00	0.00
ATOM	1151	C	PRO	X	74	64.031	44.795	34.677	0.00	0.00
ATOM	1152	O	PRO	X	74	65.274	44.622	34.801	0.00	0.00
ATOM	1153	N	GLY	X	75	63.347	44.542	33.590	0.00	0.00
ATOM	1154	H	GLY	X	75	62.342	44.641	33.600	0.00	0.00
ATOM	1155	CA	GLY	X	75	63.910	43.988	32.401	0.00	0.00
ATOM	1156	HA2	GLY	X	75	63.214	44.138	31.576	0.00	0.00
ATOM	1157	HA3	GLY	X	75	64.883	44.418	32.162	0.00	0.00
ATOM	1158	C	GLY	X	75	64.110	42.516	32.431	0.00	0.00
ATOM	1159	O	GLY	X	75	64.440	41.978	31.394	0.00	0.00
ATOM	1160	N	PHE	X	76	63.863	41.775	33.493	0.00	0.00
ATOM	1161	H	PHE	X	76	63.699	42.299	34.341	0.00	0.00
ATOM	1162	CA	PHE	X	76	63.726	40.330	33.626	0.00	0.00
ATOM	1163	HA	PHE	X	76	64.440	39.812	32.986	0.00	0.00
ATOM	1164	CB	PHE	X	76	63.787	39.977	35.110	0.00	0.00
ATOM	1165	HB2	PHE	X	76	64.769	40.229	35.510	0.00	0.00
ATOM	1166	HB3	PHE	X	76	63.160	40.709	35.619	0.00	0.00
ATOM	1167	CG	PHE	X	76	63.499	38.563	35.529	0.00	0.00
ATOM	1168	CD1	PHE	X	76	64.266	37.495	34.871	0.00	0.00
ATOM	1169	HD1	PHE	X	76	65.048	37.718	34.161	0.00	0.00
ATOM	1170	CE1	PHE	X	76	63.968	36.190	35.180	0.00	0.00
ATOM	1171	HE1	PHE	X	76	64.575	35.350	34.877	0.00	0.00
ATOM	1172	CZ	PHE	X	76	62.995	35.896	36.106	0.00	0.00
ATOM	1173	HZ	PHE	X	76	62.846	34.851	36.334	0.00	0.00
ATOM	1174	CE2	PHE	X	76	62.243	36.956	36.771	0.00	0.00
ATOM	1175	HE2	PHE	X	76	61.478	36.713	37.494	0.00	0.00
ATOM	1176	CD2	PHE	X	76	62.544	38.350	36.529	0.00	0.00
ATOM	1177	HD2	PHE	X	76	61.932	39.148	36.923	0.00	0.00

ATOM	1178	C	PHE	X	76	62.398	39.818	33.014	0.00	0.00
ATOM	1179	O	PHE	X	76	61.326	40.328	33.280	0.00	0.00
ATOM	1180	N	GLU	X	77	62.414	38.646	32.385	0.00	0.00
ATOM	1181	H	GLU	X	77	63.264	38.223	32.040	0.00	0.00
ATOM	1182	CA	GLU	X	77	61.237	37.839	32.012	0.00	0.00
ATOM	1183	HA	GLU	X	77	60.934	38.256	31.051	0.00	0.00
ATOM	1184	CB	GLU	X	77	61.752	36.418	31.687	0.00	0.00
ATOM	1185	HB2	GLU	X	77	62.305	36.078	32.563	0.00	0.00
ATOM	1186	HB3	GLU	X	77	60.867	35.811	31.497	0.00	0.00
ATOM	1187	CG	GLU	X	77	62.540	36.165	30.382	0.00	0.00
ATOM	1188	HG2	GLU	X	77	62.238	35.210	29.951	0.00	0.00
ATOM	1189	HG3	GLU	X	77	62.356	36.938	29.636	0.00	0.00
ATOM	1190	CD	GLU	X	77	64.025	36.051	30.660	0.00	0.00
ATOM	1191	OE1	GLU	X	77	64.446	35.027	31.165	0.00	0.00
ATOM	1192	OE2	GLU	X	77	64.622	37.143	30.444	0.00	0.00
ATOM	1193	C	GLU	X	77	60.143	37.662	33.042	0.00	0.00
ATOM	1194	O	GLU	X	77	58.970	37.917	32.677	0.00	0.00
ATOM	1195	N	GLY	X	78	60.403	37.409	34.326	0.00	0.00
ATOM	1196	H	GLY	X	78	61.325	37.242	34.702	0.00	0.00
ATOM	1197	CA	GLY	X	78	59.322	37.255	35.289	0.00	0.00
ATOM	1198	HA2	GLY	X	78	58.606	36.572	34.833	0.00	0.00
ATOM	1199	HA3	GLY	X	78	59.733	36.840	36.210	0.00	0.00
ATOM	1200	C	GLY	X	78	58.594	38.537	35.727	0.00	0.00
ATOM	1201	O	GLY	X	78	57.644	38.422	36.499	0.00	0.00
ATOM	1202	N	THR	X	79	59.076	39.739	35.339	0.00	0.00
ATOM	1203	H	THR	X	79	59.907	39.803	34.768	0.00	0.00
ATOM	1204	CA	THR	X	79	58.556	41.071	35.820	0.00	0.00
ATOM	1205	HA	THR	X	79	57.811	40.879	36.591	0.00	0.00
ATOM	1206	CB	THR	X	79	59.674	41.921	36.505	0.00	0.00
ATOM	1207	HB	THR	X	79	59.296	42.940	36.592	0.00	0.00
ATOM	1208	CG2	THR	X	79	60.022	41.444	37.902	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.405	42.362	38.348	0.00	0.00
ATOM	1210	HG22	THR	X	79	60.781	40.662	37.919	0.00	0.00
ATOM	1211	HG23	THR	X	79	59.097	41.211	38.427	0.00	0.00
ATOM	1212	OG1	THR	X	79	60.906	41.962	35.783	0.00	0.00
ATOM	1213	HG1	THR	X	79	61.627	42.281	36.331	0.00	0.00
ATOM	1214	C	THR	X	79	57.985	41.792	34.645	0.00	0.00
ATOM	1215	O	THR	X	79	56.855	42.383	34.842	0.00	0.00
ATOM	1216	N	GLU	X	80	58.755	41.941	33.564	0.00	0.00
ATOM	1217	H	GLU	X	80	59.724	41.681	33.685	0.00	0.00
ATOM	1218	CA	GLU	X	80	58.274	42.723	32.440	0.00	0.00
ATOM	1219	HA	GLU	X	80	58.104	43.736	32.804	0.00	0.00
ATOM	1220	CB	GLU	X	80	59.548	42.828	31.421	0.00	0.00
ATOM	1221	HB2	GLU	X	80	59.351	43.580	30.657	0.00	0.00
ATOM	1222	HB3	GLU	X	80	60.374	43.208	32.021	0.00	0.00
ATOM	1223	CG	GLU	X	80	59.926	41.605	30.658	0.00	0.00
ATOM	1224	HG2	GLU	X	80	59.817	40.689	31.240	0.00	0.00
ATOM	1225	HG3	GLU	X	80	59.286	41.443	29.790	0.00	0.00
ATOM	1226	CD	GLU	X	80	61.269	41.753	29.945	0.00	0.00
ATOM	1227	OE1	GLU	X	80	61.971	40.769	29.877	0.00	0.00
ATOM	1228	OE2	GLU	X	80	61.664	42.750	29.378	0.00	0.00
ATOM	1229	C	GLU	X	80	56.992	42.204	31.794	0.00	0.00
ATOM	1230	O	GLU	X	80	56.403	42.948	31.060	0.00	0.00
ATOM	1231	N	MET	X	81	56.432	41.075	32.162	0.00	0.00
ATOM	1232	H	MET	X	81	56.989	40.478	32.756	0.00	0.00
ATOM	1233	CA	MET	X	81	55.230	40.657	31.595	0.00	0.00
ATOM	1234	HA	MET	X	81	55.208	40.831	30.520	0.00	0.00
ATOM	1235	CB	MET	X	81	55.089	39.142	31.632	0.00	0.00
ATOM	1236	HB2	MET	X	81	54.140	38.908	31.149	0.00	0.00
ATOM	1237	HB3	MET	X	81	55.853	38.671	31.012	0.00	0.00
ATOM	1238	CG	MET	X	81	55.031	38.532	33.087	0.00	0.00
ATOM	1239	HG2	MET	X	81	55.949	38.644	33.663	0.00	0.00
ATOM	1240	HG3	MET	X	81	54.356	39.158	33.672	0.00	0.00
ATOM	1241	SD	MET	X	81	54.627	36.733	33.294	0.00	0.00
ATOM	1242	CE	MET	X	81	53.019	36.575	32.548	0.00	0.00
ATOM	1243	HE1	MET	X	81	52.834	35.510	32.411	0.00	0.00
ATOM	1244	HE2	MET	X	81	52.198	36.930	33.171	0.00	0.00

ATOM	1245	HE3	MET	X	81	52.892	36.969	31.539	0.00	0.00
ATOM	1246	C	MET	X	81	54.073	41.477	32.247	0.00	0.00
ATOM	1247	O	MET	X	81	53.041	41.618	31.646	0.00	0.00
ATOM	1248	N	TRP	X	82	54.284	41.991	33.454	0.00	0.00
ATOM	1249	H	TRP	X	82	55.143	41.820	33.957	0.00	0.00
ATOM	1250	CA	TRP	X	82	53.291	42.842	34.180	0.00	0.00
ATOM	1251	HA	TRP	X	82	52.286	42.512	33.918	0.00	0.00
ATOM	1252	CB	TRP	X	82	53.496	42.502	35.623	0.00	0.00
ATOM	1253	HB2	TRP	X	82	54.397	42.961	36.031	0.00	0.00
ATOM	1254	HB3	TRP	X	82	52.757	42.978	36.268	0.00	0.00
ATOM	1255	CG	TRP	X	82	53.670	41.076	36.028	0.00	0.00
ATOM	1256	CD1	TRP	X	82	54.810	40.460	36.413	0.00	0.00
ATOM	1257	HD1	TRP	X	82	55.798	40.887	36.492	0.00	0.00
ATOM	1258	NE1	TRP	X	82	54.554	39.139	36.642	0.00	0.00
ATOM	1259	HE1	TRP	X	82	55.349	38.530	36.772	0.00	0.00
ATOM	1260	CE2	TRP	X	82	53.220	38.795	36.325	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	52.513	37.639	36.287	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	53.024	36.748	36.621	0.00	0.00
ATOM	1263	CH2	TRP	X	82	51.209	37.575	35.959	0.00	0.00
ATOM	1264	HH2	TRP	X	82	50.670	36.656	36.135	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	50.541	38.827	35.534	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	49.491	38.775	35.285	0.00	0.00
ATOM	1267	CE3	TRP	X	82	51.273	40.026	35.537	0.00	0.00
ATOM	1268	HE3	TRP	X	82	50.872	40.920	35.083	0.00	0.00
ATOM	1269	CD2	TRP	X	82	52.634	40.034	35.995	0.00	0.00
ATOM	1270	C	TRP	X	82	53.559	44.306	33.968	0.00	0.00
ATOM	1271	O	TRP	X	82	52.728	45.122	34.401	0.00	0.00
ATOM	1272	N	ASN	X	83	54.584	44.702	33.223	0.00	0.00
ATOM	1273	H	ASN	X	83	55.187	43.988	32.842	0.00	0.00
ATOM	1274	CA	ASN	X	83	54.853	46.123	33.027	0.00	0.00
ATOM	1275	HA	ASN	X	83	54.910	46.627	33.991	0.00	0.00
ATOM	1276	CB	ASN	X	83	56.279	46.160	32.548	0.00	0.00
ATOM	1277	HB2	ASN	X	83	56.961	45.664	33.238	0.00	0.00
ATOM	1278	HB3	ASN	X	83	56.302	45.666	31.576	0.00	0.00
ATOM	1279	CG	ASN	X	83	56.763	47.565	32.514	0.00	0.00
ATOM	1280	OD1	ASN	X	83	56.655	48.147	31.423	0.00	0.00
ATOM	1281	ND2	ASN	X	83	57.165	48.088	33.659	0.00	0.00
ATOM	1282	HD21	ASN	X	83	57.450	49.057	33.685	0.00	0.00
ATOM	1283	HD22	ASN	X	83	57.125	47.540	34.506	0.00	0.00
ATOM	1284	C	ASN	X	83	53.796	46.939	32.234	0.00	0.00
ATOM	1285	O	ASN	X	83	53.387	46.500	31.179	0.00	0.00
ATOM	1286	N	PRO	X	84	53.323	48.138	32.591	0.00	0.00
ATOM	1287	CD	PRO	X	84	53.517	48.685	33.908	0.00	0.00
ATOM	1288	HD2	PRO	X	84	54.583	48.820	34.091	0.00	0.00
ATOM	1289	HD3	PRO	X	84	52.947	48.145	34.664	0.00	0.00
ATOM	1290	CG	PRO	X	84	52.920	50.149	33.813	0.00	0.00
ATOM	1291	HG2	PRO	X	84	53.727	50.808	33.493	0.00	0.00
ATOM	1292	HG3	PRO	X	84	52.309	50.420	34.674	0.00	0.00
ATOM	1293	CB	PRO	X	84	51.995	50.105	32.644	0.00	0.00
ATOM	1294	HB2	PRO	X	84	52.201	50.972	32.016	0.00	0.00
ATOM	1295	HB3	PRO	X	84	50.941	50.172	32.912	0.00	0.00
ATOM	1296	CA	PRO	X	84	52.381	48.895	31.819	0.00	0.00
ATOM	1297	HA	PRO	X	84	51.483	48.297	31.661	0.00	0.00
ATOM	1298	C	PRO	X	84	53.087	49.295	30.500	0.00	0.00
ATOM	1299	O	PRO	X	84	53.975	50.125	30.549	0.00	0.00
ATOM	1300	N	ASN	X	85	52.680	48.728	29.341	0.00	0.00
ATOM	1301	H	ASN	X	85	52.046	47.962	29.519	0.00	0.00
ATOM	1302	CA	ASN	X	85	53.308	49.108	28.041	0.00	0.00
ATOM	1303	HA	ASN	X	85	54.360	49.381	28.118	0.00	0.00
ATOM	1304	CB	ASN	X	85	53.451	47.948	27.158	0.00	0.00
ATOM	1305	HB2	ASN	X	85	54.305	48.048	26.488	0.00	0.00
ATOM	1306	HB3	ASN	X	85	53.769	47.133	27.808	0.00	0.00
ATOM	1307	CG	ASN	X	85	52.226	47.450	26.442	0.00	0.00
ATOM	1308	OD1	ASN	X	85	51.095	47.804	26.682	0.00	0.00
ATOM	1309	ND2	ASN	X	85	52.294	46.557	25.448	0.00	0.00
ATOM	1310	HD21	ASN	X	85	51.427	46.390	24.958	0.00	0.00
ATOM	1311	HD22	ASN	X	85	53.185	46.219	25.114	0.00	0.00

ATOM	1312	C	ASN	X	85	52.563	50.315	27.385	0.00	0.00
ATOM	1313	O	ASN	X	85	52.459	50.469	26.164	0.00	0.00
ATOM	1314	N	ARG	X	86	52.001	51.149	28.229	0.00	0.00
ATOM	1315	H	ARG	X	86	52.092	50.980	29.221	0.00	0.00
ATOM	1316	CA	ARG	X	86	51.221	52.329	27.824	0.00	0.00
ATOM	1317	HA	ARG	X	86	51.522	52.648	26.826	0.00	0.00
ATOM	1318	CB	ARG	X	86	49.668	51.945	27.995	0.00	0.00
ATOM	1319	HB2	ARG	X	86	49.457	51.727	29.041	0.00	0.00
ATOM	1320	HB3	ARG	X	86	49.065	52.819	27.747	0.00	0.00
ATOM	1321	CG	ARG	X	86	49.054	50.742	27.122	0.00	0.00
ATOM	1322	HG2	ARG	X	86	49.716	49.900	27.323	0.00	0.00
ATOM	1323	HG3	ARG	X	86	48.041	50.404	27.343	0.00	0.00
ATOM	1324	CD	ARG	X	86	49.125	51.026	25.647	0.00	0.00
ATOM	1325	HD2	ARG	X	86	48.367	51.778	25.425	0.00	0.00
ATOM	1326	HD3	ARG	X	86	50.117	51.361	25.346	0.00	0.00
ATOM	1327	NE	ARG	X	86	48.799	49.831	24.921	0.00	0.00
ATOM	1328	HE	ARG	X	86	48.901	48.939	25.384	0.00	0.00
ATOM	1329	CZ	ARG	X	86	48.547	49.802	23.615	0.00	0.00
ATOM	1330	NH1	ARG	X	86	48.187	50.825	22.993	0.00	0.00
ATOM	1331	HH11	ARG	X	86	47.898	51.688	23.430	0.00	0.00
ATOM	1332	HH12	ARG	X	86	48.114	50.775	21.986	0.00	0.00
ATOM	1333	NH2	ARG	X	86	48.574	48.647	22.998	0.00	0.00
ATOM	1334	HH21	ARG	X	86	48.897	47.806	23.454	0.00	0.00
ATOM	1335	HH22	ARG	X	86	48.562	48.521	21.996	0.00	0.00
ATOM	1336	C	ARG	X	86	51.507	53.572	28.671	0.00	0.00
ATOM	1337	O	ARG	X	86	52.109	53.631	29.741	0.00	0.00
ATOM	1338	N	GLU	X	87	51.016	54.669	28.086	0.00	0.00
ATOM	1339	H	GLU	X	87	50.640	54.530	27.159	0.00	0.00
ATOM	1340	CA	GLU	X	87	51.135	56.062	28.609	0.00	0.00
ATOM	1341	HA	GLU	X	87	52.184	56.316	28.755	0.00	0.00
ATOM	1342	CB	GLU	X	87	50.386	56.978	27.679	0.00	0.00
ATOM	1343	HB2	GLU	X	87	50.958	56.968	26.751	0.00	0.00
ATOM	1344	HB3	GLU	X	87	49.402	56.540	27.512	0.00	0.00
ATOM	1345	CG	GLU	X	87	50.297	58.465	28.116	0.00	0.00
ATOM	1346	HG2	GLU	X	87	49.554	58.983	27.509	0.00	0.00
ATOM	1347	HG3	GLU	X	87	49.838	58.474	29.105	0.00	0.00
ATOM	1348	CD	GLU	X	87	51.707	59.135	28.196	0.00	0.00
ATOM	1349	OE1	GLU	X	87	52.506	58.792	29.082	0.00	0.00
ATOM	1350	OE2	GLU	X	87	52.122	59.889	27.284	0.00	0.00
ATOM	1351	C	GLU	X	87	50.384	56.206	29.941	0.00	0.00
ATOM	1352	O	GLU	X	87	49.268	55.716	30.214	0.00	0.00
ATOM	1353	N	LEU	X	88	51.142	56.743	30.948	0.00	0.00
ATOM	1354	H	LEU	X	88	52.056	57.038	30.637	0.00	0.00
ATOM	1355	CA	LEU	X	88	50.644	57.235	32.304	0.00	0.00
ATOM	1356	HA	LEU	X	88	50.006	56.518	32.821	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.799	57.311	33.286	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.506	57.995	32.816	0.00	0.00
ATOM	1359	HB3	LEU	X	88	51.440	57.736	34.223	0.00	0.00
ATOM	1360	CG	LEU	X	88	52.458	55.996	33.616	0.00	0.00
ATOM	1361	HG	LEU	X	88	52.755	55.458	32.716	0.00	0.00
ATOM	1362	CD1	LEU	X	88	53.717	56.296	34.421	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.610	56.954	35.284	0.00	0.00
ATOM	1364	HD12	LEU	X	88	54.570	56.564	33.798	0.00	0.00
ATOM	1365	HD13	LEU	X	88	54.075	55.401	34.929	0.00	0.00
ATOM	1366	CD2	LEU	X	88	51.574	54.910	34.296	0.00	0.00
ATOM	1367	HD21	LEU	X	88	51.317	55.118	35.335	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.577	54.763	33.883	0.00	0.00
ATOM	1369	HD23	LEU	X	88	52.059	53.936	34.356	0.00	0.00
ATOM	1370	C	LEU	X	88	49.902	58.498	32.124	0.00	0.00
ATOM	1371	O	LEU	X	88	50.368	59.567	31.616	0.00	0.00
ATOM	1372	N	SER	X	89	48.620	58.513	32.614	0.00	0.00
ATOM	1373	H	SER	X	89	48.313	57.741	33.189	0.00	0.00
ATOM	1374	CA	SER	X	89	47.818	59.679	32.574	0.00	0.00
ATOM	1375	HA	SER	X	89	48.362	60.624	32.565	0.00	0.00
ATOM	1376	CB	SER	X	89	46.903	59.595	31.295	0.00	0.00
ATOM	1377	HB2	SER	X	89	47.514	59.428	30.408	0.00	0.00
ATOM	1378	HB3	SER	X	89	46.273	58.747	31.563	0.00	0.00

ATOM	1379	OG	SER	X	89	46.107	60.739	31.133	0.00	0.00
ATOM	1380	HG	SER	X	89	45.323	60.505	30.631	0.00	0.00
ATOM	1381	C	SER	X	89	46.964	59.741	33.845	0.00	0.00
ATOM	1382	O	SER	X	89	46.803	58.845	34.657	0.00	0.00
ATOM	1383	N	GLU	X	90	46.379	60.890	34.057	0.00	0.00
ATOM	1384	H	GLU	X	90	46.592	61.663	33.444	0.00	0.00
ATOM	1385	CA	GLU	X	90	45.271	61.110	35.037	0.00	0.00
ATOM	1386	HA	GLU	X	90	45.349	60.475	35.920	0.00	0.00
ATOM	1387	CB	GLU	X	90	45.462	62.517	35.679	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.467	63.334	34.957	0.00	0.00
ATOM	1389	HB3	GLU	X	90	44.566	62.653	36.284	0.00	0.00
ATOM	1390	CG	GLU	X	90	46.545	62.690	36.685	0.00	0.00
ATOM	1391	HG2	GLU	X	90	46.477	61.888	37.421	0.00	0.00
ATOM	1392	HG3	GLU	X	90	47.561	62.645	36.291	0.00	0.00
ATOM	1393	CD	GLU	X	90	46.405	64.028	37.467	0.00	0.00
ATOM	1394	OE1	GLU	X	90	45.707	64.059	38.529	0.00	0.00
ATOM	1395	OE2	GLU	X	90	47.075	65.022	37.118	0.00	0.00
ATOM	1396	C	GLU	X	90	43.882	61.072	34.433	0.00	0.00
ATOM	1397	O	GLU	X	90	42.847	60.878	35.093	0.00	0.00
ATOM	1398	N	ASP	X	91	43.720	61.206	33.132	0.00	0.00
ATOM	1399	H	ASP	X	91	44.536	61.438	32.584	0.00	0.00
ATOM	1400	CA	ASP	X	91	42.427	60.856	32.331	0.00	0.00
ATOM	1401	HA	ASP	X	91	41.619	61.177	32.988	0.00	0.00
ATOM	1402	CB	ASP	X	91	42.329	61.643	31.043	0.00	0.00
ATOM	1403	HB2	ASP	X	91	41.247	61.715	30.935	0.00	0.00
ATOM	1404	HB3	ASP	X	91	42.672	62.675	31.123	0.00	0.00
ATOM	1405	CG	ASP	X	91	42.807	61.094	29.699	0.00	0.00
ATOM	1406	OD1	ASP	X	91	42.210	61.476	28.721	0.00	0.00
ATOM	1407	OD2	ASP	X	91	43.839	60.450	29.679	0.00	0.00
ATOM	1408	C	ASP	X	91	42.248	59.352	32.112	0.00	0.00
ATOM	1409	O	ASP	X	91	41.557	58.936	31.231	0.00	0.00
ATOM	1410	N	CYX	X	92	42.909	58.521	32.877	0.00	0.00
ATOM	1411	H	CYX	X	92	43.374	58.906	33.687	0.00	0.00
ATOM	1412	CA	CYX	X	92	43.212	57.174	32.509	0.00	0.00
ATOM	1413	HA	CYX	X	92	43.841	57.185	31.618	0.00	0.00
ATOM	1414	CB	CYX	X	92	44.144	56.544	33.639	0.00	0.00
ATOM	1415	HB2	CYX	X	92	44.166	55.464	33.490	0.00	0.00
ATOM	1416	HB3	CYX	X	92	45.115	57.039	33.666	0.00	0.00
ATOM	1417	SG	CYX	X	92	43.470	56.860	35.303	0.00	0.00
ATOM	1418	C	CYX	X	92	42.086	56.195	32.345	0.00	0.00
ATOM	1419	O	CYX	X	92	42.362	55.017	31.914	0.00	0.00
ATOM	1420	N	LEU	X	93	40.849	56.528	32.761	0.00	0.00
ATOM	1421	H	LEU	X	93	40.587	57.504	32.775	0.00	0.00
ATOM	1422	CA	LEU	X	93	39.715	55.538	32.987	0.00	0.00
ATOM	1423	HA	LEU	X	93	40.202	54.644	33.378	0.00	0.00
ATOM	1424	CB	LEU	X	93	38.634	56.067	33.952	0.00	0.00
ATOM	1425	HB2	LEU	X	93	38.124	56.985	33.659	0.00	0.00
ATOM	1426	HB3	LEU	X	93	37.933	55.245	34.097	0.00	0.00
ATOM	1427	CG	LEU	X	93	39.208	56.367	35.383	0.00	0.00
ATOM	1428	HG	LEU	X	93	40.012	57.098	35.297	0.00	0.00
ATOM	1429	CD1	LEU	X	93	38.061	56.891	36.318	0.00	0.00
ATOM	1430	HD11	LEU	X	93	37.287	56.132	36.428	0.00	0.00
ATOM	1431	HD12	LEU	X	93	37.569	57.782	35.929	0.00	0.00
ATOM	1432	HD13	LEU	X	93	38.549	57.020	37.285	0.00	0.00
ATOM	1433	CD2	LEU	X	93	39.908	55.138	36.023	0.00	0.00
ATOM	1434	HD21	LEU	X	93	40.715	54.777	35.385	0.00	0.00
ATOM	1435	HD22	LEU	X	93	40.192	55.311	37.061	0.00	0.00
ATOM	1436	HD23	LEU	X	93	39.208	54.303	35.987	0.00	0.00
ATOM	1437	C	LEU	X	93	39.004	55.192	31.648	0.00	0.00
ATOM	1438	O	LEU	X	93	38.314	55.971	31.014	0.00	0.00
ATOM	1439	N	TYR	X	94	39.195	53.970	31.176	0.00	0.00
ATOM	1440	H	TYR	X	94	39.705	53.299	31.732	0.00	0.00
ATOM	1441	CA	TYR	X	94	38.447	53.397	30.043	0.00	0.00
ATOM	1442	HA	TYR	X	94	37.505	53.909	29.848	0.00	0.00
ATOM	1443	CB	TYR	X	94	39.258	53.577	28.789	0.00	0.00
ATOM	1444	HB2	TYR	X	94	40.133	52.930	28.851	0.00	0.00
ATOM	1445	HB3	TYR	X	94	38.625	53.216	27.979	0.00	0.00

ATOM	1446	CG	TYR	X	94	39.729	54.995	28.592	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.979	55.952	27.835	0.00	0.00
ATOM	1448	HD1	TYR	X	94	37.949	55.685	27.649	0.00	0.00
ATOM	1449	CE1	TYR	X	94	39.591	57.149	27.439	0.00	0.00
ATOM	1450	HE1	TYR	X	94	39.154	57.843	26.736	0.00	0.00
ATOM	1451	CZ	TYR	X	94	40.817	57.544	28.028	0.00	0.00
ATOM	1452	OH	TYR	X	94	41.367	58.729	27.643	0.00	0.00
ATOM	1453	HH	TYR	X	94	42.138	58.893	28.191	0.00	0.00
ATOM	1454	CE2	TYR	X	94	41.458	56.649	28.875	0.00	0.00
ATOM	1455	HE2	TYR	X	94	42.370	57.004	29.333	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.979	55.358	29.105	0.00	0.00
ATOM	1457	HD2	TYR	X	94	41.585	54.700	29.709	0.00	0.00
ATOM	1458	C	TYR	X	94	38.083	51.899	30.228	0.00	0.00
ATOM	1459	O	TYR	X	94	38.869	51.155	30.758	0.00	0.00
ATOM	1460	N	LEU	X	95	36.962	51.495	29.597	0.00	0.00
ATOM	1461	H	LEU	X	95	36.484	52.208	29.066	0.00	0.00
ATOM	1462	CA	LEU	X	95	36.326	50.132	29.508	0.00	0.00
ATOM	1463	HA	LEU	X	95	36.789	49.640	30.363	0.00	0.00
ATOM	1464	CB	LEU	X	95	34.823	50.372	29.758	0.00	0.00
ATOM	1465	HB2	LEU	X	95	34.555	51.319	30.227	0.00	0.00
ATOM	1466	HB3	LEU	X	95	34.353	50.524	28.786	0.00	0.00
ATOM	1467	CG	LEU	X	95	33.984	49.320	30.479	0.00	0.00
ATOM	1468	HG	LEU	X	95	34.613	48.730	31.146	0.00	0.00
ATOM	1469	CD1	LEU	X	95	32.861	50.048	31.219	0.00	0.00
ATOM	1470	HD11	LEU	X	95	32.215	50.659	30.588	0.00	0.00
ATOM	1471	HD12	LEU	X	95	33.215	50.612	32.082	0.00	0.00
ATOM	1472	HD13	LEU	X	95	32.377	49.187	31.680	0.00	0.00
ATOM	1473	CD2	LEU	X	95	33.297	48.329	29.437	0.00	0.00
ATOM	1474	HD21	LEU	X	95	32.974	47.494	30.059	0.00	0.00
ATOM	1475	HD22	LEU	X	95	32.471	48.822	28.925	0.00	0.00
ATOM	1476	HD23	LEU	X	95	33.950	47.900	28.677	0.00	0.00
ATOM	1477	C	LEU	X	95	36.768	49.469	28.134	0.00	0.00
ATOM	1478	O	LEU	X	95	37.209	50.174	27.233	0.00	0.00
ATOM	1479	N	ASN	X	96	36.523	48.174	28.047	0.00	0.00
ATOM	1480	H	ASN	X	96	36.152	47.709	28.864	0.00	0.00
ATOM	1481	CA	ASN	X	96	37.196	47.295	27.085	0.00	0.00
ATOM	1482	HA	ASN	X	96	37.178	47.853	26.149	0.00	0.00
ATOM	1483	CB	ASN	X	96	38.551	46.923	27.464	0.00	0.00
ATOM	1484	HB2	ASN	X	96	38.403	46.245	28.305	0.00	0.00
ATOM	1485	HB3	ASN	X	96	39.026	46.331	26.682	0.00	0.00
ATOM	1486	CG	ASN	X	96	39.480	48.081	27.770	0.00	0.00
ATOM	1487	OD1	ASN	X	96	40.020	48.755	26.889	0.00	0.00
ATOM	1488	ND2	ASN	X	96	39.707	48.372	29.023	0.00	0.00
ATOM	1489	HD21	ASN	X	96	40.301	49.143	29.296	0.00	0.00
ATOM	1490	HD22	ASN	X	96	39.230	47.856	29.748	0.00	0.00
ATOM	1491	C	ASN	X	96	36.291	46.000	26.910	0.00	0.00
ATOM	1492	O	ASN	X	96	36.030	45.384	27.913	0.00	0.00
ATOM	1493	N	VAL	X	97	35.838	45.717	25.725	0.00	0.00
ATOM	1494	H	VAL	X	97	36.043	46.312	24.935	0.00	0.00
ATOM	1495	CA	VAL	X	97	34.939	44.586	25.429	0.00	0.00
ATOM	1496	HA	VAL	X	97	34.686	44.026	26.329	0.00	0.00
ATOM	1497	CB	VAL	X	97	33.593	44.999	24.864	0.00	0.00
ATOM	1498	HB	VAL	X	97	33.841	45.645	24.022	0.00	0.00
ATOM	1499	CG1	VAL	X	97	32.612	43.899	24.406	0.00	0.00
ATOM	1500	HG11	VAL	X	97	33.037	43.309	23.594	0.00	0.00
ATOM	1501	HG12	VAL	X	97	32.397	43.247	25.253	0.00	0.00
ATOM	1502	HG13	VAL	X	97	31.706	44.382	24.039	0.00	0.00
ATOM	1503	CG2	VAL	X	97	32.711	45.697	25.881	0.00	0.00
ATOM	1504	HG21	VAL	X	97	31.813	46.078	25.394	0.00	0.00
ATOM	1505	HG22	VAL	X	97	33.307	46.542	26.226	0.00	0.00
ATOM	1506	HG23	VAL	X	97	32.415	45.123	26.759	0.00	0.00
ATOM	1507	C	VAL	X	97	35.579	43.623	24.414	0.00	0.00
ATOM	1508	O	VAL	X	97	36.215	44.131	23.477	0.00	0.00
ATOM	1509	N	TRP	X	98	35.306	42.348	24.578	0.00	0.00
ATOM	1510	H	TRP	X	98	34.741	42.141	25.389	0.00	0.00
ATOM	1511	CA	TRP	X	98	35.663	41.191	23.733	0.00	0.00
ATOM	1512	HA	TRP	X	98	36.017	41.508	22.752	0.00	0.00

ATOM	1513	CB	TRP	X	98	36.886	40.449	24.338	0.00	0.00
ATOM	1514	HB2	TRP	X	98	36.467	40.092	25.278	0.00	0.00
ATOM	1515	HB3	TRP	X	98	37.005	39.633	23.624	0.00	0.00
ATOM	1516	CG	TRP	X	98	38.256	41.133	24.469	0.00	0.00
ATOM	1517	CD1	TRP	X	98	39.274	40.947	23.604	0.00	0.00
ATOM	1518	HD1	TRP	X	98	39.262	40.247	22.782	0.00	0.00
ATOM	1519	NE1	TRP	X	98	40.413	41.628	24.018	0.00	0.00
ATOM	1520	HE1	TRP	X	98	41.319	41.538	23.579	0.00	0.00
ATOM	1521	CE2	TRP	X	98	40.129	42.359	25.145	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	40.854	43.226	25.924	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	41.882	43.325	25.607	0.00	0.00
ATOM	1524	CH2	TRP	X	98	40.341	43.688	27.145	0.00	0.00
ATOM	1525	HH2	TRP	X	98	40.963	44.243	27.831	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	38.997	43.405	27.465	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	38.508	43.860	28.314	0.00	0.00
ATOM	1528	CE3	TRP	X	98	38.215	42.535	26.716	0.00	0.00
ATOM	1529	HE3	TRP	X	98	37.151	42.415	26.852	0.00	0.00
ATOM	1530	CD2	TRP	X	98	38.807	42.027	25.507	0.00	0.00
ATOM	1531	C	TRP	X	98	34.410	40.381	23.396	0.00	0.00
ATOM	1532	O	TRP	X	98	33.737	40.026	24.329	0.00	0.00
ATOM	1533	N	THR	X	99	34.020	40.186	22.109	0.00	0.00
ATOM	1534	H	THR	X	99	34.728	40.477	21.451	0.00	0.00
ATOM	1535	CA	THR	X	99	32.782	39.488	21.590	0.00	0.00
ATOM	1536	HA	THR	X	99	32.475	38.892	22.450	0.00	0.00
ATOM	1537	CB	THR	X	99	31.673	40.521	21.372	0.00	0.00
ATOM	1538	HB	THR	X	99	31.578	41.193	22.225	0.00	0.00
ATOM	1539	CG2	THR	X	99	31.866	41.425	20.210	0.00	0.00
ATOM	1540	HG21	THR	X	99	31.720	40.906	19.263	0.00	0.00
ATOM	1541	HG22	THR	X	99	32.909	41.740	20.173	0.00	0.00
ATOM	1542	HG23	THR	X	99	31.249	42.322	20.250	0.00	0.00
ATOM	1543	OG1	THR	X	99	30.442	39.834	21.281	0.00	0.00
ATOM	1544	HG1	THR	X	99	29.745	40.477	21.131	0.00	0.00
ATOM	1545	C	THR	X	99	33.080	38.656	20.451	0.00	0.00
ATOM	1546	O	THR	X	99	33.901	39.150	19.644	0.00	0.00
ATOM	1547	N	PRO	X	100	32.479	37.457	20.327	0.00	0.00
ATOM	1548	CD	PRO	X	100	31.628	36.835	21.346	0.00	0.00
ATOM	1549	HD2	PRO	X	100	30.746	37.432	21.577	0.00	0.00
ATOM	1550	HD3	PRO	X	100	32.078	36.583	22.307	0.00	0.00
ATOM	1551	CG	PRO	X	100	31.098	35.597	20.695	0.00	0.00
ATOM	1552	HG2	PRO	X	100	30.181	35.833	20.156	0.00	0.00
ATOM	1553	HG3	PRO	X	100	30.852	34.786	21.380	0.00	0.00
ATOM	1554	CB	PRO	X	100	32.237	35.202	19.710	0.00	0.00
ATOM	1555	HB2	PRO	X	100	31.921	34.498	18.940	0.00	0.00
ATOM	1556	HB3	PRO	X	100	33.076	34.756	20.244	0.00	0.00
ATOM	1557	CA	PRO	X	100	32.856	36.527	19.229	0.00	0.00
ATOM	1558	HA	PRO	X	100	33.944	36.496	19.296	0.00	0.00
ATOM	1559	C	PRO	X	100	32.393	37.013	17.881	0.00	0.00
ATOM	1560	O	PRO	X	100	31.238	37.375	17.722	0.00	0.00
ATOM	1561	N	TYR	X	101	33.309	37.029	16.876	0.00	0.00
ATOM	1562	H	TYR	X	101	34.290	36.896	17.080	0.00	0.00
ATOM	1563	CA	TYR	X	101	32.856	37.517	15.536	0.00	0.00
ATOM	1564	HA	TYR	X	101	32.013	38.186	15.707	0.00	0.00
ATOM	1565	CB	TYR	X	101	34.025	38.195	14.933	0.00	0.00
ATOM	1566	HB2	TYR	X	101	34.459	38.818	15.716	0.00	0.00
ATOM	1567	HB3	TYR	X	101	34.716	37.426	14.589	0.00	0.00
ATOM	1568	CG	TYR	X	101	33.699	39.016	13.716	0.00	0.00
ATOM	1569	CD1	TYR	X	101	33.520	38.384	12.469	0.00	0.00
ATOM	1570	HD1	TYR	X	101	33.645	37.312	12.419	0.00	0.00
ATOM	1571	CE1	TYR	X	101	33.105	39.143	11.379	0.00	0.00
ATOM	1572	HE1	TYR	X	101	32.870	38.627	10.459	0.00	0.00
ATOM	1573	CZ	TYR	X	101	32.855	40.521	11.472	0.00	0.00
ATOM	1574	OH	TYR	X	101	32.445	41.221	10.402	0.00	0.00
ATOM	1575	HH	TYR	X	101	32.231	40.621	9.683	0.00	0.00
ATOM	1576	CE2	TYR	X	101	33.225	41.210	12.678	0.00	0.00
ATOM	1577	HE2	TYR	X	101	33.147	42.283	12.578	0.00	0.00
ATOM	1578	CD2	TYR	X	101	33.619	40.454	13.784	0.00	0.00
ATOM	1579	HD2	TYR	X	101	33.688	40.998	14.714	0.00	0.00

ATOM	1580	C	TYR	X	101	32.241	36.483	14.616	0.00	0.00
ATOM	1581	O	TYR	X	101	32.713	35.361	14.544	0.00	0.00
ATOM	1582	N	PRO	X	102	31.181	36.820	13.807	0.00	0.00
ATOM	1583	CD	PRO	X	102	30.681	35.902	12.790	0.00	0.00
ATOM	1584	HD2	PRO	X	102	30.577	34.929	13.270	0.00	0.00
ATOM	1585	HD3	PRO	X	102	31.516	35.984	12.094	0.00	0.00
ATOM	1586	CG	PRO	X	102	29.340	36.433	12.290	0.00	0.00
ATOM	1587	HG2	PRO	X	102	28.530	36.062	12.918	0.00	0.00
ATOM	1588	HG3	PRO	X	102	29.180	36.196	11.238	0.00	0.00
ATOM	1589	CB	PRO	X	102	29.471	37.922	12.572	0.00	0.00
ATOM	1590	HB2	PRO	X	102	28.457	38.302	12.694	0.00	0.00
ATOM	1591	HB3	PRO	X	102	29.928	38.415	11.714	0.00	0.00
ATOM	1592	CA	PRO	X	102	30.332	38.031	13.857	0.00	0.00
ATOM	1593	HA	PRO	X	102	30.937	38.938	13.832	0.00	0.00
ATOM	1594	C	PRO	X	102	29.523	38.047	15.086	0.00	0.00
ATOM	1595	O	PRO	X	102	29.273	36.984	15.571	0.00	0.00
ATOM	1596	N	ARG	X	103	29.171	39.263	15.510	0.00	0.00
ATOM	1597	H	ARG	X	103	29.656	40.002	15.022	0.00	0.00
ATOM	1598	CA	ARG	X	103	28.479	39.604	16.801	0.00	0.00
ATOM	1599	HA	ARG	X	103	29.149	39.412	17.639	0.00	0.00
ATOM	1600	CB	ARG	X	103	27.996	41.055	16.919	0.00	0.00
ATOM	1601	HB2	ARG	X	103	28.903	41.632	17.099	0.00	0.00
ATOM	1602	HB3	ARG	X	103	27.494	41.330	15.991	0.00	0.00
ATOM	1603	CG	ARG	X	103	27.116	41.352	18.197	0.00	0.00
ATOM	1604	HG2	ARG	X	103	26.184	40.802	18.069	0.00	0.00
ATOM	1605	HG3	ARG	X	103	27.605	41.009	19.109	0.00	0.00
ATOM	1606	CD	ARG	X	103	26.816	42.916	18.380	0.00	0.00
ATOM	1607	HD2	ARG	X	103	26.108	43.165	19.171	0.00	0.00
ATOM	1608	HD3	ARG	X	103	27.794	43.246	18.729	0.00	0.00
ATOM	1609	NE	ARG	X	103	26.486	43.572	17.053	0.00	0.00
ATOM	1610	HE	ARG	X	103	26.971	44.340	16.612	0.00	0.00
ATOM	1611	CZ	ARG	X	103	25.448	43.376	16.267	0.00	0.00
ATOM	1612	NH1	ARG	X	103	24.362	42.755	16.617	0.00	0.00
ATOM	1613	HH11	ARG	X	103	24.342	42.231	17.480	0.00	0.00
ATOM	1614	HH12	ARG	X	103	23.615	42.699	15.939	0.00	0.00
ATOM	1615	NH2	ARG	X	103	25.408	43.836	15.092	0.00	0.00
ATOM	1616	HH21	ARG	X	103	26.222	44.282	14.693	0.00	0.00
ATOM	1617	HH22	ARG	X	103	24.530	43.882	14.595	0.00	0.00
ATOM	1618	C	ARG	X	103	27.260	38.662	17.003	0.00	0.00
ATOM	1619	O	ARG	X	103	26.446	38.485	16.041	0.00	0.00
ATOM	1620	N	PRO	X	104	27.238	37.991	18.184	0.00	0.00
ATOM	1621	CD	PRO	X	104	28.087	38.133	19.288	0.00	0.00
ATOM	1622	HD2	PRO	X	104	28.363	39.118	19.666	0.00	0.00
ATOM	1623	HD3	PRO	X	104	29.033	37.620	19.118	0.00	0.00
ATOM	1624	CG	PRO	X	104	27.483	37.265	20.463	0.00	0.00
ATOM	1625	HG2	PRO	X	104	26.971	37.918	21.170	0.00	0.00
ATOM	1626	HG3	PRO	X	104	28.228	36.602	20.905	0.00	0.00
ATOM	1627	CB	PRO	X	104	26.502	36.376	19.791	0.00	0.00
ATOM	1628	HB2	PRO	X	104	25.673	36.230	20.483	0.00	0.00
ATOM	1629	HB3	PRO	X	104	26.883	35.374	19.594	0.00	0.00
ATOM	1630	CA	PRO	X	104	26.155	37.147	18.512	0.00	0.00
ATOM	1631	HA	PRO	X	104	25.968	36.422	17.719	0.00	0.00
ATOM	1632	C	PRO	X	104	24.913	37.964	18.794	0.00	0.00
ATOM	1633	O	PRO	X	104	24.967	39.125	19.178	0.00	0.00
ATOM	1634	N	THR	X	105	23.737	37.369	18.675	0.00	0.00
ATOM	1635	H	THR	X	105	23.672	36.422	18.330	0.00	0.00
ATOM	1636	CA	THR	X	105	22.357	38.083	18.821	0.00	0.00
ATOM	1637	HA	THR	X	105	22.490	39.061	19.282	0.00	0.00
ATOM	1638	CB	THR	X	105	21.718	38.394	17.479	0.00	0.00
ATOM	1639	HB	THR	X	105	20.704	38.793	17.486	0.00	0.00
ATOM	1640	CG2	THR	X	105	22.567	39.317	16.677	0.00	0.00
ATOM	1641	HG21	THR	X	105	22.079	39.649	15.761	0.00	0.00
ATOM	1642	HG22	THR	X	105	23.550	38.913	16.433	0.00	0.00
ATOM	1643	HG23	THR	X	105	22.667	40.259	17.218	0.00	0.00
ATOM	1644	OG1	THR	X	105	21.716	37.197	16.641	0.00	0.00
ATOM	1645	HG1	THR	X	105	22.643	37.025	16.461	0.00	0.00
ATOM	1646	C	THR	X	105	21.387	37.287	19.724	0.00	0.00

ATOM	1647	O	THR	X	105	20.337	37.815	19.967	0.00	0.00
ATOM	1648	N	SER	X	106	21.795	36.154	20.309	0.00	0.00
ATOM	1649	H	SER	X	106	22.741	35.857	20.114	0.00	0.00
ATOM	1650	CA	SER	X	106	21.157	35.484	21.436	0.00	0.00
ATOM	1651	HA	SER	X	106	20.152	35.881	21.582	0.00	0.00
ATOM	1652	CB	SER	X	106	20.993	34.009	20.969	0.00	0.00
ATOM	1653	HB2	SER	X	106	21.843	33.603	20.421	0.00	0.00
ATOM	1654	HB3	SER	X	106	20.839	33.411	21.867	0.00	0.00
ATOM	1655	OG	SER	X	106	19.826	33.926	20.180	0.00	0.00
ATOM	1656	HG	SER	X	106	20.144	34.195	19.315	0.00	0.00
ATOM	1657	C	SER	X	106	22.070	35.523	22.694	0.00	0.00
ATOM	1658	O	SER	X	106	23.301	35.849	22.540	0.00	0.00
ATOM	1659	N	PRO	X	107	21.599	35.302	23.893	0.00	0.00
ATOM	1660	CD	PRO	X	107	20.214	34.898	24.192	0.00	0.00
ATOM	1661	HD2	PRO	X	107	19.924	34.023	23.610	0.00	0.00
ATOM	1662	HD3	PRO	X	107	19.549	35.758	24.110	0.00	0.00
ATOM	1663	CG	PRO	X	107	20.222	34.447	25.655	0.00	0.00
ATOM	1664	HG2	PRO	X	107	20.626	33.439	25.745	0.00	0.00
ATOM	1665	HG3	PRO	X	107	19.221	34.461	26.086	0.00	0.00
ATOM	1666	CB	PRO	X	107	21.172	35.448	26.241	0.00	0.00
ATOM	1667	HB2	PRO	X	107	21.511	35.155	27.234	0.00	0.00
ATOM	1668	HB3	PRO	X	107	20.759	36.443	26.403	0.00	0.00
ATOM	1669	CA	PRO	X	107	22.273	35.534	25.152	0.00	0.00
ATOM	1670	HA	PRO	X	107	22.692	36.536	25.235	0.00	0.00
ATOM	1671	C	PRO	X	107	23.331	34.536	25.511	0.00	0.00
ATOM	1672	O	PRO	X	107	23.189	33.298	25.458	0.00	0.00
ATOM	1673	N	THR	X	108	24.549	35.078	25.768	0.00	0.00
ATOM	1674	H	THR	X	108	24.604	36.086	25.796	0.00	0.00
ATOM	1675	CA	THR	X	108	25.835	34.472	26.034	0.00	0.00
ATOM	1676	HA	THR	X	108	25.614	33.427	26.248	0.00	0.00
ATOM	1677	CB	THR	X	108	26.756	34.430	24.844	0.00	0.00
ATOM	1678	HB	THR	X	108	26.288	33.778	24.106	0.00	0.00
ATOM	1679	CG2	THR	X	108	27.167	35.842	24.275	0.00	0.00
ATOM	1680	HG21	THR	X	108	27.843	35.798	23.421	0.00	0.00
ATOM	1681	HG22	THR	X	108	27.612	36.328	25.144	0.00	0.00
ATOM	1682	HG23	THR	X	108	26.219	36.314	24.019	0.00	0.00
ATOM	1683	OG1	THR	X	108	27.923	33.768	25.174	0.00	0.00
ATOM	1684	HG1	THR	X	108	28.322	33.375	24.395	0.00	0.00
ATOM	1685	C	THR	X	108	26.459	35.223	27.262	0.00	0.00
ATOM	1686	O	THR	X	108	26.494	36.439	27.248	0.00	0.00
ATOM	1687	N	PRO	X	109	26.976	34.457	28.198	0.00	0.00
ATOM	1688	CD	PRO	X	109	26.972	33.018	28.405	0.00	0.00
ATOM	1689	HD2	PRO	X	109	27.839	32.562	27.927	0.00	0.00
ATOM	1690	HD3	PRO	X	109	26.104	32.478	28.025	0.00	0.00
ATOM	1691	CG	PRO	X	109	27.076	32.734	29.924	0.00	0.00
ATOM	1692	HG2	PRO	X	109	27.679	31.868	30.196	0.00	0.00
ATOM	1693	HG3	PRO	X	109	26.067	32.583	30.309	0.00	0.00
ATOM	1694	CB	PRO	X	109	27.839	33.953	30.450	0.00	0.00
ATOM	1695	HB2	PRO	X	109	28.903	33.765	30.305	0.00	0.00
ATOM	1696	HB3	PRO	X	109	27.586	34.211	31.479	0.00	0.00
ATOM	1697	CA	PRO	X	109	27.388	35.022	29.484	0.00	0.00
ATOM	1698	HA	PRO	X	109	26.485	35.470	29.899	0.00	0.00
ATOM	1699	C	PRO	X	109	28.524	36.020	29.432	0.00	0.00
ATOM	1700	O	PRO	X	109	29.337	35.989	28.516	0.00	0.00
ATOM	1701	N	VAL	X	110	28.613	36.891	30.467	0.00	0.00
ATOM	1702	H	VAL	X	110	27.749	36.903	30.990	0.00	0.00
ATOM	1703	CA	VAL	X	110	29.445	38.123	30.464	0.00	0.00
ATOM	1704	HA	VAL	X	110	30.016	38.180	29.537	0.00	0.00
ATOM	1705	CB	VAL	X	110	28.573	39.367	30.510	0.00	0.00
ATOM	1706	HB	VAL	X	110	27.845	39.329	31.321	0.00	0.00
ATOM	1707	CG1	VAL	X	110	29.396	40.670	30.465	0.00	0.00
ATOM	1708	HG11	VAL	X	110	28.666	41.473	30.367	0.00	0.00
ATOM	1709	HG12	VAL	X	110	29.924	40.810	31.409	0.00	0.00
ATOM	1710	HG13	VAL	X	110	30.162	40.644	29.690	0.00	0.00
ATOM	1711	CG2	VAL	X	110	27.613	39.259	29.330	0.00	0.00
ATOM	1712	HG21	VAL	X	110	27.094	40.204	29.171	0.00	0.00
ATOM	1713	HG22	VAL	X	110	26.975	38.408	29.568	0.00	0.00

ATOM	1714	HG23	VAL	X	110	28.132	38.930	28.429	0.00	0.00
ATOM	1715	C	VAL	X	110	30.427	38.091	31.665	0.00	0.00
ATOM	1716	O	VAL	X	110	30.057	38.222	32.846	0.00	0.00
ATOM	1717	N	LEU	X	111	31.675	37.848	31.327	0.00	0.00
ATOM	1718	H	LEU	X	111	31.824	37.814	30.329	0.00	0.00
ATOM	1719	CA	LEU	X	111	32.850	37.913	32.281	0.00	0.00
ATOM	1720	HA	LEU	X	111	32.501	37.715	33.294	0.00	0.00
ATOM	1721	CB	LEU	X	111	33.877	36.832	31.797	0.00	0.00
ATOM	1722	HB2	LEU	X	111	33.876	36.816	30.707	0.00	0.00
ATOM	1723	HB3	LEU	X	111	34.844	37.091	32.230	0.00	0.00
ATOM	1724	CG	LEU	X	111	33.398	35.408	32.271	0.00	0.00
ATOM	1725	HG	LEU	X	111	32.314	35.320	32.201	0.00	0.00
ATOM	1726	CD1	LEU	X	111	33.895	34.297	31.375	0.00	0.00
ATOM	1727	HD11	LEU	X	111	34.981	34.210	31.389	0.00	0.00
ATOM	1728	HD12	LEU	X	111	33.611	34.518	30.346	0.00	0.00
ATOM	1729	HD13	LEU	X	111	33.464	33.332	31.641	0.00	0.00
ATOM	1730	CD2	LEU	X	111	33.926	35.138	33.751	0.00	0.00
ATOM	1731	HD21	LEU	X	111	35.007	34.999	33.787	0.00	0.00
ATOM	1732	HD22	LEU	X	111	33.596	35.838	34.518	0.00	0.00
ATOM	1733	HD23	LEU	X	111	33.478	34.196	34.068	0.00	0.00
ATOM	1734	C	LEU	X	111	33.355	39.321	32.432	0.00	0.00
ATOM	1735	O	LEU	X	111	33.952	39.817	31.418	0.00	0.00
ATOM	1736	N	VAL	X	112	33.195	39.972	33.578	0.00	0.00
ATOM	1737	H	VAL	X	112	32.590	39.568	34.279	0.00	0.00
ATOM	1738	CA	VAL	X	112	33.754	41.293	33.837	0.00	0.00
ATOM	1739	HA	VAL	X	112	34.015	41.736	32.876	0.00	0.00
ATOM	1740	CB	VAL	X	112	32.818	42.326	34.458	0.00	0.00
ATOM	1741	HB	VAL	X	112	32.538	41.961	35.446	0.00	0.00
ATOM	1742	CG1	VAL	X	112	33.371	43.766	34.682	0.00	0.00
ATOM	1743	HG11	VAL	X	112	32.484	44.388	34.798	0.00	0.00
ATOM	1744	HG12	VAL	X	112	34.049	43.791	35.536	0.00	0.00
ATOM	1745	HG13	VAL	X	112	33.934	43.969	33.771	0.00	0.00
ATOM	1746	CG2	VAL	X	112	31.457	42.425	33.646	0.00	0.00
ATOM	1747	HG21	VAL	X	112	30.705	43.018	34.166	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.087	41.409	33.512	0.00	0.00
ATOM	1749	HG23	VAL	X	112	31.625	42.866	32.664	0.00	0.00
ATOM	1750	C	VAL	X	112	34.985	41.193	34.704	0.00	0.00
ATOM	1751	O	VAL	X	112	34.970	40.780	35.872	0.00	0.00
ATOM	1752	N	TRP	X	113	36.165	41.413	34.134	0.00	0.00
ATOM	1753	H	TRP	X	113	36.064	41.803	33.208	0.00	0.00
ATOM	1754	CA	TRP	X	113	37.461	41.201	34.768	0.00	0.00
ATOM	1755	HA	TRP	X	113	37.330	40.308	35.379	0.00	0.00
ATOM	1756	CB	TRP	X	113	38.500	40.907	33.682	0.00	0.00
ATOM	1757	HB2	TRP	X	113	38.314	39.871	33.397	0.00	0.00
ATOM	1758	HB3	TRP	X	113	38.447	41.669	32.905	0.00	0.00
ATOM	1759	CG	TRP	X	113	39.876	40.919	34.256	0.00	0.00
ATOM	1760	CD1	TRP	X	113	40.745	41.897	34.117	0.00	0.00
ATOM	1761	HD1	TRP	X	113	40.755	42.788	33.506	0.00	0.00
ATOM	1762	NE1	TRP	X	113	41.882	41.544	34.825	0.00	0.00
ATOM	1763	HE1	TRP	X	113	42.706	42.092	34.624	0.00	0.00
ATOM	1764	CE2	TRP	X	113	41.797	40.313	35.457	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	42.652	39.470	36.164	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	43.613	39.866	36.455	0.00	0.00
ATOM	1767	CH2	TRP	X	113	42.388	38.094	36.433	0.00	0.00
ATOM	1768	HH2	TRP	X	113	43.102	37.448	36.923	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	41.053	37.667	36.127	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	40.716	36.675	36.391	0.00	0.00
ATOM	1771	CE3	TRP	X	113	40.121	38.564	35.515	0.00	0.00
ATOM	1772	HE3	TRP	X	113	39.079	38.282	35.536	0.00	0.00
ATOM	1773	CD2	TRP	X	113	40.485	39.887	35.082	0.00	0.00
ATOM	1774	C	TRP	X	113	37.938	42.374	35.673	0.00	0.00
ATOM	1775	O	TRP	X	113	37.740	43.569	35.377	0.00	0.00
ATOM	1776	N	ILE	X	114	38.652	42.029	36.673	0.00	0.00
ATOM	1777	H	ILE	X	114	38.957	41.074	36.796	0.00	0.00
ATOM	1778	CA	ILE	X	114	39.094	42.906	37.777	0.00	0.00
ATOM	1779	HA	ILE	X	114	39.175	43.944	37.455	0.00	0.00
ATOM	1780	CB	ILE	X	114	38.096	42.913	38.962	0.00	0.00

ATOM	1781	HB	ILE	X	114	38.099	41.915	39.401	0.00	0.00
ATOM	1782	CG2	ILE	X	114	38.511	43.924	40.094	0.00	0.00
ATOM	1783	HG21	ILE	X	114	39.421	43.575	40.582	0.00	0.00
ATOM	1784	HG22	ILE	X	114	37.805	43.836	40.920	0.00	0.00
ATOM	1785	HG23	ILE	X	114	38.591	44.974	39.813	0.00	0.00
ATOM	1786	CG1	ILE	X	114	36.720	43.310	38.385	0.00	0.00
ATOM	1787	HG12	ILE	X	114	36.841	44.215	37.790	0.00	0.00
ATOM	1788	HG13	ILE	X	114	36.382	42.479	37.766	0.00	0.00
ATOM	1789	CD1	ILE	X	114	35.639	43.475	39.487	0.00	0.00
ATOM	1790	HD11	ILE	X	114	34.664	43.603	39.017	0.00	0.00
ATOM	1791	HD12	ILE	X	114	35.957	44.376	40.012	0.00	0.00
ATOM	1792	HD13	ILE	X	114	35.747	42.560	40.068	0.00	0.00
ATOM	1793	C	ILE	X	114	40.438	42.424	38.300	0.00	0.00
ATOM	1794	O	ILE	X	114	40.546	41.359	38.945	0.00	0.00
ATOM	1795	N	TYR	X	115	41.455	43.264	38.127	0.00	0.00
ATOM	1796	H	TYR	X	115	41.301	44.255	38.010	0.00	0.00
ATOM	1797	CA	TYR	X	115	42.823	42.897	38.286	0.00	0.00
ATOM	1798	HA	TYR	X	115	42.952	41.874	37.930	0.00	0.00
ATOM	1799	CB	TYR	X	115	43.737	43.638	37.292	0.00	0.00
ATOM	1800	HB2	TYR	X	115	44.770	43.368	37.509	0.00	0.00
ATOM	1801	HB3	TYR	X	115	43.526	43.228	36.304	0.00	0.00
ATOM	1802	CG	TYR	X	115	43.607	45.132	37.196	0.00	0.00
ATOM	1803	CD1	TYR	X	115	44.078	45.982	38.266	0.00	0.00
ATOM	1804	HD1	TYR	X	115	44.387	45.530	39.197	0.00	0.00
ATOM	1805	CE1	TYR	X	115	44.120	47.398	38.145	0.00	0.00
ATOM	1806	HE1	TYR	X	115	44.260	48.024	39.015	0.00	0.00
ATOM	1807	CZ	TYR	X	115	43.560	47.941	36.945	0.00	0.00
ATOM	1808	OH	TYR	X	115	43.647	49.306	36.755	0.00	0.00
ATOM	1809	HH	TYR	X	115	43.662	49.863	37.537	0.00	0.00
ATOM	1810	CE2	TYR	X	115	43.154	47.177	35.862	0.00	0.00
ATOM	1811	HE2	TYR	X	115	42.737	47.601	34.961	0.00	0.00
ATOM	1812	CD2	TYR	X	115	43.128	45.761	36.013	0.00	0.00
ATOM	1813	HD2	TYR	X	115	42.943	45.116	35.167	0.00	0.00
ATOM	1814	C	TYR	X	115	43.349	42.900	39.734	0.00	0.00
ATOM	1815	O	TYR	X	115	43.002	43.764	40.535	0.00	0.00
ATOM	1816	N	GLY	X	116	44.373	42.047	40.098	0.00	0.00
ATOM	1817	H	GLY	X	116	44.626	41.376	39.387	0.00	0.00
ATOM	1818	CA	GLY	X	116	45.396	42.372	41.106	0.00	0.00
ATOM	1819	HA2	GLY	X	116	44.941	42.841	41.978	0.00	0.00
ATOM	1820	HA3	GLY	X	116	45.919	41.482	41.458	0.00	0.00
ATOM	1821	C	GLY	X	116	46.425	43.491	40.687	0.00	0.00
ATOM	1822	O	GLY	X	116	46.264	44.257	39.768	0.00	0.00
ATOM	1823	N	GLY	X	117	47.397	43.572	41.527	0.00	0.00
ATOM	1824	H	GLY	X	117	47.506	42.915	42.287	0.00	0.00
ATOM	1825	CA	GLY	X	117	48.381	44.630	41.574	0.00	0.00
ATOM	1826	HA2	GLY	X	117	49.373	44.195	41.461	0.00	0.00
ATOM	1827	HA3	GLY	X	117	48.173	45.436	40.870	0.00	0.00
ATOM	1828	C	GLY	X	117	48.557	45.343	42.928	0.00	0.00
ATOM	1829	O	GLY	X	117	49.102	46.403	43.085	0.00	0.00
ATOM	1830	N	GLY	X	118	48.128	44.692	44.044	0.00	0.00
ATOM	1831	H	GLY	X	118	47.682	43.792	43.939	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.432	45.080	45.390	0.00	0.00
ATOM	1833	HA2	GLY	X	118	48.111	44.202	45.950	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.502	45.073	45.598	0.00	0.00
ATOM	1835	C	GLY	X	118	47.663	46.267	45.950	0.00	0.00
ATOM	1836	O	GLY	X	118	48.003	46.923	46.932	0.00	0.00
ATOM	1837	N	PHE	X	119	46.693	46.764	45.094	0.00	0.00
ATOM	1838	H	PHE	X	119	46.517	46.163	44.303	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.014	48.077	45.026	0.00	0.00
ATOM	1840	HA	PHE	X	119	45.275	48.008	44.227	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.215	48.349	46.282	0.00	0.00
ATOM	1842	HB2	PHE	X	119	45.889	48.573	47.109	0.00	0.00
ATOM	1843	HB3	PHE	X	119	44.724	49.320	46.213	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.136	47.273	46.622	0.00	0.00
ATOM	1845	CD1	PHE	X	119	42.893	47.321	45.946	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.709	48.068	45.188	0.00	0.00
ATOM	1847	CE1	PHE	X	119	41.850	46.336	46.218	0.00	0.00

ATOM	1848	HE1	PHE	X	119	40.846	46.521	45.867	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.115	45.391	47.269	0.00	0.00
ATOM	1850	HZ	PHE	X	119	41.405	44.678	47.662	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.374	45.353	47.880	0.00	0.00
ATOM	1852	HE2	PHE	X	119	43.519	44.783	48.785	0.00	0.00
ATOM	1853	CD2	PHE	X	119	44.409	46.215	47.475	0.00	0.00
ATOM	1854	HD2	PHE	X	119	45.373	46.161	47.959	0.00	0.00
ATOM	1855	C	PHE	X	119	46.897	49.266	44.714	0.00	0.00
ATOM	1856	O	PHE	X	119	46.344	50.316	44.503	0.00	0.00
ATOM	1857	N	TYR	X	120	48.182	49.071	44.585	0.00	0.00
ATOM	1858	H	TYR	X	120	48.486	48.139	44.828	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.153	50.101	44.296	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.644	51.019	44.589	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.422	49.935	45.153	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.991	50.863	45.083	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.048	49.877	46.176	0.00	0.00
ATOM	1864	CG	TYR	X	120	51.335	48.826	44.707	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.544	49.150	44.136	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.784	50.196	44.019	0.00	0.00
ATOM	1867	CE1	TYR	X	120	53.464	48.109	43.829	0.00	0.00
ATOM	1868	HE1	TYR	X	120	54.384	48.390	43.338	0.00	0.00
ATOM	1869	CZ	TYR	X	120	53.148	46.754	43.937	0.00	0.00
ATOM	1870	OH	TYR	X	120	54.045	45.790	43.674	0.00	0.00
ATOM	1871	HH	TYR	X	120	53.767	44.952	44.050	0.00	0.00
ATOM	1872	CE2	TYR	X	120	51.848	46.414	44.460	0.00	0.00
ATOM	1873	HE2	TYR	X	120	51.726	45.381	44.747	0.00	0.00
ATOM	1874	CD2	TYR	X	120	51.046	47.504	44.975	0.00	0.00
ATOM	1875	HD2	TYR	X	120	50.125	47.242	45.475	0.00	0.00
ATOM	1876	C	TYR	X	120	49.500	50.104	42.792	0.00	0.00
ATOM	1877	O	TYR	X	120	50.298	50.912	42.391	0.00	0.00
ATOM	1878	N	SER	X	121	49.010	49.165	41.953	0.00	0.00
ATOM	1879	H	SER	X	121	48.264	48.589	42.317	0.00	0.00
ATOM	1880	CA	SER	X	121	49.400	48.791	40.621	0.00	0.00
ATOM	1881	HA	SER	X	121	49.453	49.745	40.096	0.00	0.00
ATOM	1882	CB	SER	X	121	50.815	48.135	40.596	0.00	0.00
ATOM	1883	HB2	SER	X	121	50.727	47.277	41.262	0.00	0.00
ATOM	1884	HB3	SER	X	121	50.964	47.834	39.559	0.00	0.00
ATOM	1885	OG	SER	X	121	51.844	49.040	40.915	0.00	0.00
ATOM	1886	HG	SER	X	121	51.539	49.597	41.634	0.00	0.00
ATOM	1887	C	SER	X	121	48.327	47.904	39.930	0.00	0.00
ATOM	1888	O	SER	X	121	47.338	47.538	40.566	0.00	0.00
ATOM	1889	N	GLY	X	122	48.490	47.638	38.615	0.00	0.00
ATOM	1890	H	GLY	X	122	49.280	48.103	38.192	0.00	0.00
ATOM	1891	CA	GLY	X	122	47.522	46.855	37.792	0.00	0.00
ATOM	1892	HA2	GLY	X	122	48.070	46.031	37.335	0.00	0.00
ATOM	1893	HA3	GLY	X	122	46.743	46.299	38.314	0.00	0.00
ATOM	1894	C	GLY	X	122	46.973	47.686	36.697	0.00	0.00
ATOM	1895	O	GLY	X	122	47.060	48.874	36.767	0.00	0.00
ATOM	1896	N	ALA	X	123	46.478	47.026	35.598	0.00	0.00
ATOM	1897	H	ALA	X	123	46.328	46.028	35.644	0.00	0.00
ATOM	1898	CA	ALA	X	123	46.077	47.709	34.435	0.00	0.00
ATOM	1899	HA	ALA	X	123	45.349	48.435	34.796	0.00	0.00
ATOM	1900	CB	ALA	X	123	47.245	48.471	33.862	0.00	0.00
ATOM	1901	HB1	ALA	X	123	47.478	49.422	34.342	0.00	0.00
ATOM	1902	HB2	ALA	X	123	46.974	48.701	32.832	0.00	0.00
ATOM	1903	HB3	ALA	X	123	48.121	47.843	33.702	0.00	0.00
ATOM	1904	C	ALA	X	123	45.384	46.799	33.398	0.00	0.00
ATOM	1905	O	ALA	X	123	45.883	45.740	33.172	0.00	0.00
ATOM	1906	N	SER	X	124	44.370	47.204	32.602	0.00	0.00
ATOM	1907	H	SER	X	124	44.025	48.138	32.769	0.00	0.00
ATOM	1908	CA	SER	X	124	43.568	46.303	31.640	0.00	0.00
ATOM	1909	HA	SER	X	124	43.347	45.395	32.200	0.00	0.00
ATOM	1910	CB	SER	X	124	42.281	47.025	31.209	0.00	0.00
ATOM	1911	HB2	SER	X	124	41.891	46.485	30.346	0.00	0.00
ATOM	1912	HB3	SER	X	124	41.580	46.881	32.031	0.00	0.00
ATOM	1913	OG	SER	X	124	42.380	48.434	30.924	0.00	0.00
ATOM	1914	HG	SER	X	124	42.820	48.949	31.605	0.00	0.00

ATOM	1915	C	SER	X	124	44.394	45.902	30.366	0.00	0.00
ATOM	1916	O	SER	X	124	44.103	44.922	29.656	0.00	0.00
ATOM	1917	N	SER	X	125	45.483	46.747	30.109	0.00	0.00
ATOM	1918	H	SER	X	125	45.772	47.391	30.831	0.00	0.00
ATOM	1919	CA	SER	X	125	46.264	46.672	28.911	0.00	0.00
ATOM	1920	HA	SER	X	125	45.573	46.295	28.157	0.00	0.00
ATOM	1921	CB	SER	X	125	46.778	48.043	28.527	0.00	0.00
ATOM	1922	HB2	SER	X	125	47.558	47.919	27.776	0.00	0.00
ATOM	1923	HB3	SER	X	125	45.940	48.614	28.125	0.00	0.00
ATOM	1924	OG	SER	X	125	47.353	48.702	29.700	0.00	0.00
ATOM	1925	HG	SER	X	125	48.262	48.409	29.603	0.00	0.00
ATOM	1926	C	SER	X	125	47.425	45.652	28.911	0.00	0.00
ATOM	1927	O	SER	X	125	48.100	45.550	27.898	0.00	0.00
ATOM	1928	N	LEU	X	126	47.640	44.929	30.035	0.00	0.00
ATOM	1929	H	LEU	X	126	47.005	45.065	30.809	0.00	0.00
ATOM	1930	CA	LEU	X	126	48.679	43.831	30.142	0.00	0.00
ATOM	1931	HA	LEU	X	126	49.631	44.215	29.774	0.00	0.00
ATOM	1932	CB	LEU	X	126	48.878	43.303	31.562	0.00	0.00
ATOM	1933	HB2	LEU	X	126	47.986	42.811	31.951	0.00	0.00
ATOM	1934	HB3	LEU	X	126	49.695	42.582	31.535	0.00	0.00
ATOM	1935	CG	LEU	X	126	49.135	44.367	32.636	0.00	0.00
ATOM	1936	HG	LEU	X	126	48.294	45.057	32.711	0.00	0.00
ATOM	1937	CD1	LEU	X	126	49.370	43.682	34.054	0.00	0.00
ATOM	1938	HD11	LEU	X	126	49.721	44.398	34.798	0.00	0.00
ATOM	1939	HD12	LEU	X	126	50.141	42.920	33.945	0.00	0.00
ATOM	1940	HD13	LEU	X	126	48.465	43.155	34.356	0.00	0.00
ATOM	1941	CD2	LEU	X	126	50.317	45.136	32.216	0.00	0.00
ATOM	1942	HD21	LEU	X	126	50.128	45.774	31.353	0.00	0.00
ATOM	1943	HD22	LEU	X	126	50.741	45.736	33.021	0.00	0.00
ATOM	1944	HD23	LEU	X	126	51.047	44.357	31.997	0.00	0.00
ATOM	1945	C	LEU	X	126	48.261	42.670	29.233	0.00	0.00
ATOM	1946	O	LEU	X	126	47.105	42.213	29.353	0.00	0.00
ATOM	1947	N	ASP	X	127	49.090	42.121	28.328	0.00	0.00
ATOM	1948	H	ASP	X	127	49.997	42.525	28.144	0.00	0.00
ATOM	1949	CA	ASP	X	127	48.782	41.116	27.326	0.00	0.00
ATOM	1950	HA	ASP	X	127	47.869	41.493	26.866	0.00	0.00
ATOM	1951	CB	ASP	X	127	49.925	41.138	26.294	0.00	0.00
ATOM	1952	HB2	ASP	X	127	49.534	40.601	25.430	0.00	0.00
ATOM	1953	HB3	ASP	X	127	50.153	42.116	25.871	0.00	0.00
ATOM	1954	CG	ASP	X	127	51.176	40.428	26.761	0.00	0.00
ATOM	1955	OD1	ASP	X	127	51.612	40.724	27.893	0.00	0.00
ATOM	1956	OD2	ASP	X	127	51.654	39.465	26.110	0.00	0.00
ATOM	1957	C	ASP	X	127	48.388	39.735	27.749	0.00	0.00
ATOM	1958	O	ASP	X	127	47.968	38.911	26.904	0.00	0.00
ATOM	1959	N	VAL	X	128	48.462	39.395	29.062	0.00	0.00
ATOM	1960	H	VAL	X	128	49.034	39.964	29.670	0.00	0.00
ATOM	1961	CA	VAL	X	128	47.810	38.171	29.664	0.00	0.00
ATOM	1962	HA	VAL	X	128	47.992	37.300	29.035	0.00	0.00
ATOM	1963	CB	VAL	X	128	48.286	37.781	31.091	0.00	0.00
ATOM	1964	HB	VAL	X	128	49.353	37.574	31.010	0.00	0.00
ATOM	1965	CG1	VAL	X	128	48.233	38.833	32.208	0.00	0.00
ATOM	1966	HG11	VAL	X	128	49.002	38.589	32.940	0.00	0.00
ATOM	1967	HG12	VAL	X	128	48.385	39.820	31.771	0.00	0.00
ATOM	1968	HG13	VAL	X	128	47.260	38.904	32.694	0.00	0.00
ATOM	1969	CG2	VAL	X	128	47.568	36.547	31.558	0.00	0.00
ATOM	1970	HG21	VAL	X	128	48.109	36.057	32.367	0.00	0.00
ATOM	1971	HG22	VAL	X	128	47.548	35.861	30.711	0.00	0.00
ATOM	1972	HG23	VAL	X	128	46.526	36.720	31.827	0.00	0.00
ATOM	1973	C	VAL	X	128	46.273	38.402	29.617	0.00	0.00
ATOM	1974	O	VAL	X	128	45.569	37.443	29.416	0.00	0.00
ATOM	1975	N	TYR	X	129	45.734	39.626	29.860	0.00	0.00
ATOM	1976	H	TYR	X	129	46.338	40.435	29.879	0.00	0.00
ATOM	1977	CA	TYR	X	129	44.282	39.743	30.174	0.00	0.00
ATOM	1978	HA	TYR	X	129	43.989	38.844	30.717	0.00	0.00
ATOM	1979	CB	TYR	X	129	44.003	40.950	31.110	0.00	0.00
ATOM	1980	HB2	TYR	X	129	44.034	41.911	30.598	0.00	0.00
ATOM	1981	HB3	TYR	X	129	42.989	40.813	31.487	0.00	0.00

ATOM	1982	CG	TYR	X	129	44.776	41.074	32.418	0.00	0.00
ATOM	1983	CD1	TYR	X	129	44.885	39.912	33.306	0.00	0.00
ATOM	1984	HD1	TYR	X	129	44.590	38.933	32.957	0.00	0.00
ATOM	1985	CE1	TYR	X	129	45.520	40.135	34.544	0.00	0.00
ATOM	1986	HE1	TYR	X	129	45.672	39.376	35.297	0.00	0.00
ATOM	1987	CZ	TYR	X	129	45.829	41.439	34.940	0.00	0.00
ATOM	1988	OH	TYR	X	129	46.340	41.630	36.227	0.00	0.00
ATOM	1989	HH	TYR	X	129	46.336	40.905	36.857	0.00	0.00
ATOM	1990	CE2	TYR	X	129	45.786	42.537	34.061	0.00	0.00
ATOM	1991	HE2	TYR	X	129	46.104	43.514	34.393	0.00	0.00
ATOM	1992	CD2	TYR	X	129	45.210	42.341	32.791	0.00	0.00
ATOM	1993	HD2	TYR	X	129	45.051	43.143	32.086	0.00	0.00
ATOM	1994	C	TYR	X	129	43.343	39.870	28.955	0.00	0.00
ATOM	1995	O	TYR	X	129	42.167	40.128	29.155	0.00	0.00
ATOM	1996	N	ASP	X	130	43.837	39.562	27.739	0.00	0.00
ATOM	1997	H	ASP	X	130	44.772	39.180	27.749	0.00	0.00
ATOM	1998	CA	ASP	X	130	43.052	39.579	26.530	0.00	0.00
ATOM	1999	HA	ASP	X	130	42.478	40.500	26.637	0.00	0.00
ATOM	2000	CB	ASP	X	130	43.993	39.592	25.272	0.00	0.00
ATOM	2001	HB2	ASP	X	130	44.832	40.275	25.409	0.00	0.00
ATOM	2002	HB3	ASP	X	130	44.267	38.548	25.122	0.00	0.00
ATOM	2003	CG	ASP	X	130	43.260	40.112	24.041	0.00	0.00
ATOM	2004	OD1	ASP	X	130	42.420	39.376	23.527	0.00	0.00
ATOM	2005	OD2	ASP	X	130	43.546	41.282	23.680	0.00	0.00
ATOM	2006	C	ASP	X	130	42.021	38.437	26.506	0.00	0.00
ATOM	2007	O	ASP	X	130	42.389	37.255	26.694	0.00	0.00
ATOM	2008	N	GLY	X	131	40.766	38.720	26.169	0.00	0.00
ATOM	2009	H	GLY	X	131	40.547	39.673	25.916	0.00	0.00
ATOM	2010	CA	GLY	X	131	39.651	37.761	26.143	0.00	0.00
ATOM	2011	HA2	GLY	X	131	39.791	37.212	27.074	0.00	0.00
ATOM	2012	HA3	GLY	X	131	38.719	38.319	26.060	0.00	0.00
ATOM	2013	C	GLY	X	131	39.701	36.795	24.928	0.00	0.00
ATOM	2014	O	GLY	X	131	38.887	35.838	24.889	0.00	0.00
ATOM	2015	N	ARG	X	132	40.549	37.008	23.939	0.00	0.00
ATOM	2016	H	ARG	X	132	41.294	37.690	23.971	0.00	0.00
ATOM	2017	CA	ARG	X	132	40.348	36.389	22.543	0.00	0.00
ATOM	2018	HA	ARG	X	132	39.428	36.877	22.221	0.00	0.00
ATOM	2019	CB	ARG	X	132	41.447	36.844	21.596	0.00	0.00
ATOM	2020	HB2	ARG	X	132	41.335	36.502	20.567	0.00	0.00
ATOM	2021	HB3	ARG	X	132	41.554	37.928	21.616	0.00	0.00
ATOM	2022	CG	ARG	X	132	42.820	36.362	22.040	0.00	0.00
ATOM	2023	HG2	ARG	X	132	43.023	36.509	23.101	0.00	0.00
ATOM	2024	HG3	ARG	X	132	42.905	35.289	21.867	0.00	0.00
ATOM	2025	CD	ARG	X	132	44.023	37.036	21.333	0.00	0.00
ATOM	2026	HD2	ARG	X	132	44.938	36.909	21.912	0.00	0.00
ATOM	2027	HD3	ARG	X	132	44.181	36.588	20.352	0.00	0.00
ATOM	2028	NE	ARG	X	132	43.910	38.474	21.292	0.00	0.00
ATOM	2029	HE	ARG	X	132	43.300	38.910	21.969	0.00	0.00
ATOM	2030	CZ	ARG	X	132	44.682	39.390	20.717	0.00	0.00
ATOM	2031	NH1	ARG	X	132	45.537	39.127	19.857	0.00	0.00
ATOM	2032	HH11	ARG	X	132	45.700	38.182	19.541	0.00	0.00
ATOM	2033	HH12	ARG	X	132	46.105	39.814	19.383	0.00	0.00
ATOM	2034	NH2	ARG	X	132	44.562	40.640	21.081	0.00	0.00
ATOM	2035	HH21	ARG	X	132	43.947	40.844	21.856	0.00	0.00
ATOM	2036	HH22	ARG	X	132	45.241	41.339	20.816	0.00	0.00
ATOM	2037	C	ARG	X	132	40.210	34.806	22.512	0.00	0.00
ATOM	2038	O	ARG	X	132	39.319	34.313	21.779	0.00	0.00
ATOM	2039	N	PHE	X	133	41.082	34.046	23.236	0.00	0.00
ATOM	2040	H	PHE	X	133	41.559	34.534	23.980	0.00	0.00
ATOM	2041	CA	PHE	X	133	41.110	32.596	23.143	0.00	0.00
ATOM	2042	HA	PHE	X	133	40.968	32.378	22.084	0.00	0.00
ATOM	2043	CB	PHE	X	133	42.403	32.042	23.730	0.00	0.00
ATOM	2044	HB2	PHE	X	133	42.574	32.505	24.701	0.00	0.00
ATOM	2045	HB3	PHE	X	133	42.300	30.961	23.822	0.00	0.00
ATOM	2046	CG	PHE	X	133	43.619	32.310	22.877	0.00	0.00
ATOM	2047	CD1	PHE	X	133	44.466	33.457	23.134	0.00	0.00
ATOM	2048	HD1	PHE	X	133	44.208	34.085	23.975	0.00	0.00

ATOM	2049	CE1	PHE	X	133	45.474	33.807	22.231	0.00	0.00
ATOM	2050	HE1	PHE	X	133	46.039	34.726	22.287	0.00	0.00
ATOM	2051	CZ	PHE	X	133	45.758	32.855	21.252	0.00	0.00
ATOM	2052	HZ	PHE	X	133	46.519	32.998	20.498	0.00	0.00
ATOM	2053	CE2	PHE	X	133	44.965	31.723	21.013	0.00	0.00
ATOM	2054	HE2	PHE	X	133	45.264	30.980	20.288	0.00	0.00
ATOM	2055	CD2	PHE	X	133	43.909	31.418	21.817	0.00	0.00
ATOM	2056	HD2	PHE	X	133	43.222	30.615	21.598	0.00	0.00
ATOM	2057	C	PHE	X	133	39.867	31.966	23.885	0.00	0.00
ATOM	2058	O	PHE	X	133	39.153	31.092	23.348	0.00	0.00
ATOM	2059	N	LEU	X	134	39.587	32.488	25.099	0.00	0.00
ATOM	2060	H	LEU	X	134	40.312	33.026	25.553	0.00	0.00
ATOM	2061	CA	LEU	X	134	38.311	32.159	25.836	0.00	0.00
ATOM	2062	HA	LEU	X	134	38.255	31.092	26.052	0.00	0.00
ATOM	2063	CB	LEU	X	134	38.454	32.874	27.200	0.00	0.00
ATOM	2064	HB2	LEU	X	134	39.417	32.611	27.637	0.00	0.00
ATOM	2065	HB3	LEU	X	134	38.482	33.962	27.127	0.00	0.00
ATOM	2066	CG	LEU	X	134	37.347	32.576	28.318	0.00	0.00
ATOM	2067	HG	LEU	X	134	36.364	32.929	28.006	0.00	0.00
ATOM	2068	CD1	LEU	X	134	37.044	31.107	28.448	0.00	0.00
ATOM	2069	HD11	LEU	X	134	37.964	30.635	28.794	0.00	0.00
ATOM	2070	HD12	LEU	X	134	36.699	30.702	27.496	0.00	0.00
ATOM	2071	HD13	LEU	X	134	36.236	30.910	29.152	0.00	0.00
ATOM	2072	CD2	LEU	X	134	37.749	33.139	29.653	0.00	0.00
ATOM	2073	HD21	LEU	X	134	38.531	32.524	30.097	0.00	0.00
ATOM	2074	HD22	LEU	X	134	38.076	34.165	29.482	0.00	0.00
ATOM	2075	HD23	LEU	X	134	36.936	33.155	30.379	0.00	0.00
ATOM	2076	C	LEU	X	134	37.107	32.604	25.044	0.00	0.00
ATOM	2077	O	LEU	X	134	36.249	31.826	24.695	0.00	0.00
ATOM	2078	N	VAL	X	135	36.953	33.841	24.653	0.00	0.00
ATOM	2079	H	VAL	X	135	37.801	34.369	24.802	0.00	0.00
ATOM	2080	CA	VAL	X	135	35.750	34.513	23.983	0.00	0.00
ATOM	2081	HA	VAL	X	135	34.953	34.361	24.712	0.00	0.00
ATOM	2082	CB	VAL	X	135	35.884	36.113	23.849	0.00	0.00
ATOM	2083	HB	VAL	X	135	36.864	36.289	23.406	0.00	0.00
ATOM	2084	CG1	VAL	X	135	34.944	36.844	22.935	0.00	0.00
ATOM	2085	HG11	VAL	X	135	34.805	36.330	21.984	0.00	0.00
ATOM	2086	HG12	VAL	X	135	33.955	37.012	23.362	0.00	0.00
ATOM	2087	HG13	VAL	X	135	35.375	37.790	22.608	0.00	0.00
ATOM	2088	CG2	VAL	X	135	35.775	36.818	25.265	0.00	0.00
ATOM	2089	HG21	VAL	X	135	36.186	36.154	26.026	0.00	0.00
ATOM	2090	HG22	VAL	X	135	34.745	36.949	25.595	0.00	0.00
ATOM	2091	HG23	VAL	X	135	36.387	37.721	25.280	0.00	0.00
ATOM	2092	C	VAL	X	135	35.390	33.846	22.670	0.00	0.00
ATOM	2093	O	VAL	X	135	34.225	33.613	22.402	0.00	0.00
ATOM	2094	N	GLN	X	136	36.380	33.465	21.848	0.00	0.00
ATOM	2095	H	GLN	X	136	37.292	33.707	22.208	0.00	0.00
ATOM	2096	CA	GLN	X	136	36.194	32.848	20.504	0.00	0.00
ATOM	2097	HA	GLN	X	136	35.418	33.484	20.078	0.00	0.00
ATOM	2098	CB	GLN	X	136	37.496	32.896	19.620	0.00	0.00
ATOM	2099	HB2	GLN	X	136	37.784	33.945	19.551	0.00	0.00
ATOM	2100	HB3	GLN	X	136	38.343	32.399	20.093	0.00	0.00
ATOM	2101	CG	GLN	X	136	37.302	32.235	18.231	0.00	0.00
ATOM	2102	HG2	GLN	X	136	36.368	32.453	17.713	0.00	0.00
ATOM	2103	HG3	GLN	X	136	38.006	32.773	17.597	0.00	0.00
ATOM	2104	CD	GLN	X	136	37.808	30.708	18.229	0.00	0.00
ATOM	2105	OE1	GLN	X	136	38.792	30.369	18.824	0.00	0.00
ATOM	2106	NE2	GLN	X	136	37.066	29.835	17.748	0.00	0.00
ATOM	2107	HE21	GLN	X	136	37.497	28.926	17.653	0.00	0.00
ATOM	2108	HE22	GLN	X	136	36.311	30.057	17.116	0.00	0.00
ATOM	2109	C	GLN	X	136	35.724	31.362	20.595	0.00	0.00
ATOM	2110	O	GLN	X	136	34.895	30.923	19.832	0.00	0.00
ATOM	2111	N	ALA	X	137	36.236	30.556	21.552	0.00	0.00
ATOM	2112	H	ALA	X	137	36.989	30.859	22.153	0.00	0.00
ATOM	2113	CA	ALA	X	137	36.021	29.116	21.690	0.00	0.00
ATOM	2114	HA	ALA	X	137	35.710	28.668	20.747	0.00	0.00
ATOM	2115	CB	ALA	X	137	37.322	28.455	22.108	0.00	0.00

ATOM	2116	HB1	ALA	X	137	37.107	27.426	22.397	0.00	0.00
ATOM	2117	HB2	ALA	X	137	37.669	28.926	23.027	0.00	0.00
ATOM	2118	HB3	ALA	X	137	37.978	28.676	21.266	0.00	0.00
ATOM	2119	C	ALA	X	137	34.911	28.797	22.693	0.00	0.00
ATOM	2120	O	ALA	X	137	33.990	28.016	22.383	0.00	0.00
ATOM	2121	N	GLU	X	138	34.838	29.469	23.841	0.00	0.00
ATOM	2122	H	GLU	X	138	35.501	30.189	24.091	0.00	0.00
ATOM	2123	CA	GLU	X	138	33.704	29.265	24.729	0.00	0.00
ATOM	2124	HA	GLU	X	138	33.410	28.219	24.637	0.00	0.00
ATOM	2125	CB	GLU	X	138	34.085	29.539	26.153	0.00	0.00
ATOM	2126	HB2	GLU	X	138	34.437	30.566	26.256	0.00	0.00
ATOM	2127	HB3	GLU	X	138	33.256	29.481	26.859	0.00	0.00
ATOM	2128	CG	GLU	X	138	35.101	28.534	26.707	0.00	0.00
ATOM	2129	HG2	GLU	X	138	36.063	28.602	26.197	0.00	0.00
ATOM	2130	HG3	GLU	X	138	35.193	28.686	27.782	0.00	0.00
ATOM	2131	CD	GLU	X	138	34.626	27.037	26.654	0.00	0.00
ATOM	2132	OE1	GLU	X	138	33.495	26.711	27.008	0.00	0.00
ATOM	2133	OE2	GLU	X	138	35.480	26.156	26.365	0.00	0.00
ATOM	2134	C	GLU	X	138	32.462	30.115	24.337	0.00	0.00
ATOM	2135	O	GLU	X	138	31.413	29.915	24.928	0.00	0.00
ATOM	2136	N	ARG	X	139	32.559	31.025	23.368	0.00	0.00
ATOM	2137	H	ARG	X	139	33.483	31.132	22.973	0.00	0.00
ATOM	2138	CA	ARG	X	139	31.585	31.891	22.758	0.00	0.00
ATOM	2139	HA	ARG	X	139	32.261	32.375	22.052	0.00	0.00
ATOM	2140	CB	ARG	X	139	30.555	31.152	21.940	0.00	0.00
ATOM	2141	HB2	ARG	X	139	30.101	30.396	22.580	0.00	0.00
ATOM	2142	HB3	ARG	X	139	29.737	31.772	21.572	0.00	0.00
ATOM	2143	CG	ARG	X	139	31.210	30.475	20.712	0.00	0.00
ATOM	2144	HG2	ARG	X	139	31.646	31.333	20.200	0.00	0.00
ATOM	2145	HG3	ARG	X	139	32.042	29.824	20.982	0.00	0.00
ATOM	2146	CD	ARG	X	139	30.305	29.612	19.932	0.00	0.00
ATOM	2147	HD2	ARG	X	139	30.777	29.240	19.022	0.00	0.00
ATOM	2148	HD3	ARG	X	139	30.158	28.711	20.528	0.00	0.00
ATOM	2149	NE	ARG	X	139	28.991	30.189	19.597	0.00	0.00
ATOM	2150	HE	ARG	X	139	28.240	29.670	20.028	0.00	0.00
ATOM	2151	CZ	ARG	X	139	28.623	31.318	19.065	0.00	0.00
ATOM	2152	NH1	ARG	X	139	29.475	32.178	18.466	0.00	0.00
ATOM	2153	HH11	ARG	X	139	30.450	31.936	18.359	0.00	0.00
ATOM	2154	HH12	ARG	X	139	29.263	33.140	18.242	0.00	0.00
ATOM	2155	NH2	ARG	X	139	27.342	31.662	19.096	0.00	0.00
ATOM	2156	HH21	ARG	X	139	26.656	31.079	19.554	0.00	0.00
ATOM	2157	HH22	ARG	X	139	27.049	32.492	18.601	0.00	0.00
ATOM	2158	C	ARG	X	139	30.943	32.981	23.659	0.00	0.00
ATOM	2159	O	ARG	X	139	29.906	33.520	23.290	0.00	0.00
ATOM	2160	N	THR	X	140	31.445	33.218	24.875	0.00	0.00
ATOM	2161	H	THR	X	140	32.236	32.642	25.123	0.00	0.00
ATOM	2162	CA	THR	X	140	31.183	34.108	26.037	0.00	0.00
ATOM	2163	HA	THR	X	140	30.137	34.333	26.245	0.00	0.00
ATOM	2164	CB	THR	X	140	31.766	33.556	27.340	0.00	0.00
ATOM	2165	HB	THR	X	140	32.012	34.336	28.061	0.00	0.00
ATOM	2166	CG2	THR	X	140	30.834	32.523	27.954	0.00	0.00
ATOM	2167	HG21	THR	X	140	30.705	31.671	27.287	0.00	0.00
ATOM	2168	HG22	THR	X	140	29.964	33.088	28.289	0.00	0.00
ATOM	2169	HG23	THR	X	140	31.299	32.177	28.877	0.00	0.00
ATOM	2170	OG1	THR	X	140	32.995	32.874	26.937	0.00	0.00
ATOM	2171	HG1	THR	X	140	33.544	33.523	26.491	0.00	0.00
ATOM	2172	C	THR	X	140	31.701	35.479	25.695	0.00	0.00
ATOM	2173	O	THR	X	140	32.684	35.566	25.017	0.00	0.00
ATOM	2174	N	VAL	X	141	31.082	36.528	26.291	0.00	0.00
ATOM	2175	H	VAL	X	141	30.448	36.354	27.057	0.00	0.00
ATOM	2176	CA	VAL	X	141	31.549	37.946	26.209	0.00	0.00
ATOM	2177	HA	VAL	X	141	32.173	37.950	25.316	0.00	0.00
ATOM	2178	CB	VAL	X	141	30.412	38.982	26.028	0.00	0.00
ATOM	2179	HB	VAL	X	141	29.553	38.710	26.642	0.00	0.00
ATOM	2180	CG1	VAL	X	141	30.800	40.411	26.397	0.00	0.00
ATOM	2181	HG11	VAL	X	141	30.020	41.137	26.164	0.00	0.00
ATOM	2182	HG12	VAL	X	141	31.236	40.381	27.396	0.00	0.00

ATOM	2183	HG13	VAL	X	141	31.628	40.718	25.758	0.00	0.00
ATOM	2184	CG2	VAL	X	141	30.014	39.017	24.516	0.00	0.00
ATOM	2185	HG21	VAL	X	141	30.910	39.422	24.045	0.00	0.00
ATOM	2186	HG22	VAL	X	141	29.155	39.686	24.454	0.00	0.00
ATOM	2187	HG23	VAL	X	141	29.802	37.971	24.295	0.00	0.00
ATOM	2188	C	VAL	X	141	32.451	38.191	27.441	0.00	0.00
ATOM	2189	O	VAL	X	141	32.060	37.968	28.552	0.00	0.00
ATOM	2190	N	LEU	X	142	33.607	38.655	27.151	0.00	0.00
ATOM	2191	H	LEU	X	142	33.748	38.836	26.168	0.00	0.00
ATOM	2192	CA	LEU	X	142	34.503	39.295	28.160	0.00	0.00
ATOM	2193	HA	LEU	X	142	33.944	39.104	29.077	0.00	0.00
ATOM	2194	CB	LEU	X	142	35.802	38.555	28.175	0.00	0.00
ATOM	2195	HB2	LEU	X	142	35.508	37.531	28.404	0.00	0.00
ATOM	2196	HB3	LEU	X	142	36.386	38.613	27.256	0.00	0.00
ATOM	2197	CG	LEU	X	142	36.661	38.862	29.443	0.00	0.00
ATOM	2198	HG	LEU	X	142	36.001	39.146	30.263	0.00	0.00
ATOM	2199	CD1	LEU	X	142	37.356	37.596	29.912	0.00	0.00
ATOM	2200	HD11	LEU	X	142	37.807	37.298	28.966	0.00	0.00
ATOM	2201	HD12	LEU	X	142	36.589	36.873	30.189	0.00	0.00
ATOM	2202	HD13	LEU	X	142	37.967	37.847	30.780	0.00	0.00
ATOM	2203	CD2	LEU	X	142	37.719	40.013	29.139	0.00	0.00
ATOM	2204	HD21	LEU	X	142	38.609	39.705	28.590	0.00	0.00
ATOM	2205	HD22	LEU	X	142	37.255	40.878	28.667	0.00	0.00
ATOM	2206	HD23	LEU	X	142	38.035	40.414	30.102	0.00	0.00
ATOM	2207	C	LEU	X	142	34.593	40.796	28.061	0.00	0.00
ATOM	2208	O	LEU	X	142	34.588	41.428	27.019	0.00	0.00
ATOM	2209	N	VAL	X	143	34.656	41.462	29.268	0.00	0.00
ATOM	2210	H	VAL	X	143	34.555	40.905	30.105	0.00	0.00
ATOM	2211	CA	VAL	X	143	34.764	42.861	29.551	0.00	0.00
ATOM	2212	HA	VAL	X	143	34.978	43.417	28.639	0.00	0.00
ATOM	2213	CB	VAL	X	143	33.408	43.432	30.068	0.00	0.00
ATOM	2214	HB	VAL	X	143	33.231	43.061	31.078	0.00	0.00
ATOM	2215	CG1	VAL	X	143	33.420	44.942	30.072	0.00	0.00
ATOM	2216	HG11	VAL	X	143	33.507	45.281	29.040	0.00	0.00
ATOM	2217	HG12	VAL	X	143	32.501	45.309	30.529	0.00	0.00
ATOM	2218	HG13	VAL	X	143	34.274	45.250	30.675	0.00	0.00
ATOM	2219	CG2	VAL	X	143	32.145	43.018	29.282	0.00	0.00
ATOM	2220	HG21	VAL	X	143	31.257	43.483	29.710	0.00	0.00
ATOM	2221	HG22	VAL	X	143	31.986	41.942	29.348	0.00	0.00
ATOM	2222	HG23	VAL	X	143	32.298	43.200	28.218	0.00	0.00
ATOM	2223	C	VAL	X	143	35.902	43.251	30.596	0.00	0.00
ATOM	2224	O	VAL	X	143	36.124	42.419	31.482	0.00	0.00
ATOM	2225	N	SER	X	144	36.550	44.443	30.532	0.00	0.00
ATOM	2226	H	SER	X	144	36.445	45.004	29.698	0.00	0.00
ATOM	2227	CA	SER	X	144	37.512	44.999	31.582	0.00	0.00
ATOM	2228	HA	SER	X	144	37.120	44.813	32.582	0.00	0.00
ATOM	2229	CB	SER	X	144	38.823	44.224	31.501	0.00	0.00
ATOM	2230	HB2	SER	X	144	39.370	44.252	32.443	0.00	0.00
ATOM	2231	HB3	SER	X	144	38.736	43.186	31.182	0.00	0.00
ATOM	2232	OG	SER	X	144	39.516	44.864	30.483	0.00	0.00
ATOM	2233	HG	SER	X	144	40.299	44.310	30.443	0.00	0.00
ATOM	2234	C	SER	X	144	37.589	46.489	31.555	0.00	0.00
ATOM	2235	O	SER	X	144	36.799	47.156	30.856	0.00	0.00
ATOM	2236	N	MET	X	145	38.506	47.082	32.336	0.00	0.00
ATOM	2237	H	MET	X	145	39.185	46.521	32.831	0.00	0.00
ATOM	2238	CA	MET	X	145	38.690	48.535	32.634	0.00	0.00
ATOM	2239	HA	MET	X	145	38.787	49.026	31.666	0.00	0.00
ATOM	2240	CB	MET	X	145	37.461	49.118	33.342	0.00	0.00
ATOM	2241	HB2	MET	X	145	37.459	50.180	33.098	0.00	0.00
ATOM	2242	HB3	MET	X	145	36.613	48.663	32.830	0.00	0.00
ATOM	2243	CG	MET	X	145	37.434	49.002	34.906	0.00	0.00
ATOM	2244	HG2	MET	X	145	38.246	49.495	35.441	0.00	0.00
ATOM	2245	HG3	MET	X	145	36.546	49.575	35.173	0.00	0.00
ATOM	2246	SD	MET	X	145	37.248	47.389	35.581	0.00	0.00
ATOM	2247	CE	MET	X	145	35.678	46.958	34.938	0.00	0.00
ATOM	2248	HE1	MET	X	145	34.867	47.592	35.296	0.00	0.00
ATOM	2249	HE2	MET	X	145	35.753	46.896	33.852	0.00	0.00

ATOM	2250	HE3	MET	X	145	35.506	45.996	35.421	0.00	0.00
ATOM	2251	C	MET	X	145	39.945	48.765	33.364	0.00	0.00
ATOM	2252	O	MET	X	145	40.488	47.884	34.048	0.00	0.00
ATOM	2253	N	ASN	X	146	40.247	50.053	33.487	0.00	0.00
ATOM	2254	H	ASN	X	146	39.661	50.665	32.937	0.00	0.00
ATOM	2255	CA	ASN	X	146	41.167	50.664	34.340	0.00	0.00
ATOM	2256	HA	ASN	X	146	41.812	49.850	34.671	0.00	0.00
ATOM	2257	CB	ASN	X	146	41.871	51.840	33.599	0.00	0.00
ATOM	2258	HB2	ASN	X	146	41.129	52.417	33.047	0.00	0.00
ATOM	2259	HB3	ASN	X	146	42.298	52.559	34.299	0.00	0.00
ATOM	2260	CG	ASN	X	146	43.050	51.230	32.768	0.00	0.00
ATOM	2261	OD1	ASN	X	146	43.389	50.078	32.853	0.00	0.00
ATOM	2262	ND2	ASN	X	146	43.709	52.048	31.962	0.00	0.00
ATOM	2263	HD21	ASN	X	146	44.464	51.726	31.375	0.00	0.00
ATOM	2264	HD22	ASN	X	146	43.365	52.997	31.989	0.00	0.00
ATOM	2265	C	ASN	X	146	40.496	51.391	35.555	0.00	0.00
ATOM	2266	O	ASN	X	146	39.309	51.736	35.585	0.00	0.00
ATOM	2267	N	TYR	X	147	41.340	51.572	36.531	0.00	0.00
ATOM	2268	H	TYR	X	147	42.271	51.189	36.446	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.964	52.099	37.820	0.00	0.00
ATOM	2270	HA	TYR	X	147	40.319	52.954	37.617	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.987	51.158	38.535	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.757	51.674	39.467	0.00	0.00
ATOM	2273	HB3	TYR	X	147	39.037	51.203	38.003	0.00	0.00
ATOM	2274	CG	TYR	X	147	40.429	49.679	38.751	0.00	0.00
ATOM	2275	CD1	TYR	X	147	39.817	48.623	37.981	0.00	0.00
ATOM	2276	HD1	TYR	X	147	39.057	48.780	37.230	0.00	0.00
ATOM	2277	CE1	TYR	X	147	40.143	47.290	38.281	0.00	0.00
ATOM	2278	HE1	TYR	X	147	39.684	46.502	37.701	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.018	46.952	39.372	0.00	0.00
ATOM	2280	OH	TYR	X	147	41.205	45.689	39.767	0.00	0.00
ATOM	2281	HH	TYR	X	147	41.926	45.474	40.363	0.00	0.00
ATOM	2282	CE2	TYR	X	147	41.592	48.024	40.141	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.207	47.758	40.988	0.00	0.00
ATOM	2284	CD2	TYR	X	147	41.227	49.387	39.879	0.00	0.00
ATOM	2285	HD2	TYR	X	147	41.629	50.117	40.565	0.00	0.00
ATOM	2286	C	TYR	X	147	42.166	52.650	38.637	0.00	0.00
ATOM	2287	O	TYR	X	147	43.292	52.227	38.416	0.00	0.00
ATOM	2288	N	ARG	X	148	41.909	53.678	39.397	0.00	0.00
ATOM	2289	H	ARG	X	148	40.936	53.908	39.535	0.00	0.00
ATOM	2290	CA	ARG	X	148	42.983	54.391	40.091	0.00	0.00
ATOM	2291	HA	ARG	X	148	43.755	54.623	39.357	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.450	55.670	40.668	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.603	55.628	41.352	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.346	55.995	41.198	0.00	0.00
ATOM	2295	CG	ARG	X	148	42.143	56.843	39.643	0.00	0.00
ATOM	2296	HG2	ARG	X	148	43.070	57.309	39.309	0.00	0.00
ATOM	2297	HG3	ARG	X	148	41.663	56.499	38.727	0.00	0.00
ATOM	2298	CD	ARG	X	148	41.253	58.015	40.117	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.805	58.434	40.959	0.00	0.00
ATOM	2300	HD3	ARG	X	148	41.350	58.814	39.381	0.00	0.00
ATOM	2301	NE	ARG	X	148	39.845	57.656	40.411	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.578	56.737	40.087	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.003	58.425	41.158	0.00	0.00
ATOM	2304	NH1	ARG	X	148	39.193	59.659	41.632	0.00	0.00
ATOM	2305	HH11	ARG	X	148	39.919	60.300	41.344	0.00	0.00
ATOM	2306	HH12	ARG	X	148	38.503	60.144	42.187	0.00	0.00
ATOM	2307	NH2	ARG	X	148	37.830	57.921	41.423	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.514	57.020	41.094	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.186	58.541	41.893	0.00	0.00
ATOM	2310	C	ARG	X	148	43.584	53.531	41.220	0.00	0.00
ATOM	2311	O	ARG	X	148	42.817	52.876	41.898	0.00	0.00
ATOM	2312	N	VAL	X	149	44.896	53.489	41.436	0.00	0.00
ATOM	2313	H	VAL	X	149	45.424	54.151	40.886	0.00	0.00
ATOM	2314	CA	VAL	X	149	45.687	52.663	42.390	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.034	52.287	43.178	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.293	51.453	41.567	0.00	0.00

ATOM	2317	HB	VAL	X	149	46.842	50.851	42.292	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.155	50.565	41.113	0.00	0.00
ATOM	2319	HG11	VAL	X	149	44.568	51.066	40.343	0.00	0.00
ATOM	2320	HG12	VAL	X	149	45.714	49.674	40.828	0.00	0.00
ATOM	2321	HG13	VAL	X	149	44.556	50.177	41.937	0.00	0.00
ATOM	2322	CG2	VAL	X	149	47.160	51.749	40.342	0.00	0.00
ATOM	2323	HG21	VAL	X	149	47.953	52.453	40.595	0.00	0.00
ATOM	2324	HG22	VAL	X	149	46.490	52.250	39.644	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.545	50.845	39.869	0.00	0.00
ATOM	2326	C	VAL	X	149	46.794	53.488	43.085	0.00	0.00
ATOM	2327	O	VAL	X	149	47.185	54.540	42.627	0.00	0.00
ATOM	2328	N	GLY	X	150	47.296	52.992	44.194	0.00	0.00
ATOM	2329	H	GLY	X	150	46.839	52.124	44.437	0.00	0.00
ATOM	2330	CA	GLY	X	150	48.099	53.702	45.133	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.480	53.041	45.911	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.988	54.078	44.625	0.00	0.00
ATOM	2333	C	GLY	X	150	47.316	54.883	45.776	0.00	0.00
ATOM	2334	O	GLY	X	150	46.100	54.944	45.803	0.00	0.00
ATOM	2335	N	ALA	X	151	47.968	56.042	46.089	0.00	0.00
ATOM	2336	H	ALA	X	151	48.875	56.289	45.719	0.00	0.00
ATOM	2337	CA	ALA	X	151	47.343	57.223	46.625	0.00	0.00
ATOM	2338	HA	ALA	X	151	46.905	56.872	47.559	0.00	0.00
ATOM	2339	CB	ALA	X	151	48.329	58.397	46.923	0.00	0.00
ATOM	2340	HB1	ALA	X	151	48.956	58.582	46.050	0.00	0.00
ATOM	2341	HB2	ALA	X	151	48.959	58.008	47.723	0.00	0.00
ATOM	2342	HB3	ALA	X	151	47.767	59.259	47.283	0.00	0.00
ATOM	2343	C	ALA	X	151	46.140	57.817	45.754	0.00	0.00
ATOM	2344	O	ALA	X	151	45.045	58.208	46.193	0.00	0.00
ATOM	2345	N	PHE	X	152	46.319	57.780	44.471	0.00	0.00
ATOM	2346	H	PHE	X	152	47.208	57.483	44.094	0.00	0.00
ATOM	2347	CA	PHE	X	152	45.372	58.095	43.404	0.00	0.00
ATOM	2348	HA	PHE	X	152	45.028	59.104	43.628	0.00	0.00
ATOM	2349	CB	PHE	X	152	46.125	58.088	42.026	0.00	0.00
ATOM	2350	HB2	PHE	X	152	47.018	58.692	42.185	0.00	0.00
ATOM	2351	HB3	PHE	X	152	46.469	57.063	41.887	0.00	0.00
ATOM	2352	CG	PHE	X	152	45.480	58.686	40.778	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.996	58.290	39.587	0.00	0.00
ATOM	2354	HD1	PHE	X	152	46.882	57.678	39.665	0.00	0.00
ATOM	2355	CE1	PHE	X	152	45.491	58.731	38.351	0.00	0.00
ATOM	2356	HE1	PHE	X	152	45.828	58.321	37.410	0.00	0.00
ATOM	2357	CZ	PHE	X	152	44.344	59.601	38.356	0.00	0.00
ATOM	2358	HZ	PHE	X	152	43.951	59.925	37.404	0.00	0.00
ATOM	2359	CE2	PHE	X	152	43.762	60.007	39.598	0.00	0.00
ATOM	2360	HE2	PHE	X	152	42.915	60.676	39.548	0.00	0.00
ATOM	2361	CD2	PHE	X	152	44.375	59.570	40.793	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.940	59.884	41.731	0.00	0.00
ATOM	2363	C	PHE	X	152	44.089	57.291	43.455	0.00	0.00
ATOM	2364	O	PHE	X	152	43.066	57.864	43.097	0.00	0.00
ATOM	2365	N	GLY	X	153	44.022	56.061	44.036	0.00	0.00
ATOM	2366	H	GLY	X	153	44.924	55.654	44.241	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.838	55.304	44.273	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.985	55.733	43.747	0.00	0.00
ATOM	2369	HA3	GLY	X	153	43.106	54.306	43.926	0.00	0.00
ATOM	2370	C	GLY	X	153	42.462	55.059	45.728	0.00	0.00
ATOM	2371	O	GLY	X	153	41.312	54.655	45.924	0.00	0.00
ATOM	2372	N	PHE	X	154	43.390	55.227	46.652	0.00	0.00
ATOM	2373	H	PHE	X	154	44.310	55.480	46.321	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.256	54.649	47.991	0.00	0.00
ATOM	2375	HA	PHE	X	154	42.176	54.573	48.112	0.00	0.00
ATOM	2376	CB	PHE	X	154	43.761	53.199	47.944	0.00	0.00
ATOM	2377	HB2	PHE	X	154	44.815	53.226	47.667	0.00	0.00
ATOM	2378	HB3	PHE	X	154	43.862	52.772	48.942	0.00	0.00
ATOM	2379	CG	PHE	X	154	42.903	52.326	47.060	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.444	51.810	45.924	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.457	52.070	45.655	0.00	0.00
ATOM	2382	CE1	PHE	X	154	42.689	51.111	45.006	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.184	50.905	44.068	0.00	0.00

ATOM	2384	CZ	PHE	X	154	41.349	50.850	45.298	0.00	0.00
ATOM	2385	HZ	PHE	X	154	40.741	50.354	44.556	0.00	0.00
ATOM	2386	CE2	PHE	X	154	40.807	51.285	46.526	0.00	0.00
ATOM	2387	HE2	PHE	X	154	39.748	51.188	46.716	0.00	0.00
ATOM	2388	CD2	PHE	X	154	41.560	52.024	47.428	0.00	0.00
ATOM	2389	HD2	PHE	X	154	41.160	52.391	48.362	0.00	0.00
ATOM	2390	C	PHE	X	154	43.786	55.533	49.179	0.00	0.00
ATOM	2391	O	PHE	X	154	43.983	54.997	50.300	0.00	0.00
ATOM	2392	N	LEU	X	155	44.146	56.832	48.918	0.00	0.00
ATOM	2393	H	LEU	X	155	43.996	57.205	47.991	0.00	0.00
ATOM	2394	CA	LEU	X	155	44.431	57.847	49.975	0.00	0.00
ATOM	2395	HA	LEU	X	155	45.079	57.433	50.747	0.00	0.00
ATOM	2396	CB	LEU	X	155	45.497	58.853	49.444	0.00	0.00
ATOM	2397	HB2	LEU	X	155	46.374	58.334	49.057	0.00	0.00
ATOM	2398	HB3	LEU	X	155	45.102	59.320	48.542	0.00	0.00
ATOM	2399	CG	LEU	X	155	46.040	59.902	50.480	0.00	0.00
ATOM	2400	HG	LEU	X	155	46.245	59.456	51.453	0.00	0.00
ATOM	2401	CD1	LEU	X	155	47.223	60.730	49.987	0.00	0.00
ATOM	2402	HD11	LEU	X	155	47.706	61.184	50.852	0.00	0.00
ATOM	2403	HD12	LEU	X	155	46.822	61.401	49.228	0.00	0.00
ATOM	2404	HD13	LEU	X	155	47.954	60.049	49.551	0.00	0.00
ATOM	2405	CD2	LEU	X	155	45.114	61.103	50.929	0.00	0.00
ATOM	2406	HD21	LEU	X	155	44.429	60.796	51.719	0.00	0.00
ATOM	2407	HD22	LEU	X	155	45.603	61.892	51.501	0.00	0.00
ATOM	2408	HD23	LEU	X	155	44.623	61.654	50.127	0.00	0.00
ATOM	2409	C	LEU	X	155	43.174	58.390	50.662	0.00	0.00
ATOM	2410	O	LEU	X	155	42.264	58.953	50.092	0.00	0.00
ATOM	2411	N	ALA	X	156	43.093	58.149	51.992	0.00	0.00
ATOM	2412	H	ALA	X	156	43.910	57.790	52.464	0.00	0.00
ATOM	2413	CA	ALA	X	156	42.039	58.577	52.881	0.00	0.00
ATOM	2414	HA	ALA	X	156	41.182	59.000	52.356	0.00	0.00
ATOM	2415	CB	ALA	X	156	41.426	57.356	53.585	0.00	0.00
ATOM	2416	HB1	ALA	X	156	42.160	56.649	53.972	0.00	0.00
ATOM	2417	HB2	ALA	X	156	40.931	56.827	52.772	0.00	0.00
ATOM	2418	HB3	ALA	X	156	40.727	57.654	54.367	0.00	0.00
ATOM	2419	C	ALA	X	156	42.570	59.577	53.971	0.00	0.00
ATOM	2420	O	ALA	X	156	43.729	59.482	54.487	0.00	0.00
ATOM	2421	N	LEU	X	157	41.737	60.613	54.364	0.00	0.00
ATOM	2422	H	LEU	X	157	40.846	60.689	53.894	0.00	0.00
ATOM	2423	CA	LEU	X	157	42.008	61.414	55.527	0.00	0.00
ATOM	2424	HA	LEU	X	157	42.757	60.866	56.099	0.00	0.00
ATOM	2425	CB	LEU	X	157	42.583	62.820	55.081	0.00	0.00
ATOM	2426	HB2	LEU	X	157	41.837	63.288	54.439	0.00	0.00
ATOM	2427	HB3	LEU	X	157	42.790	63.387	55.989	0.00	0.00
ATOM	2428	CG	LEU	X	157	43.870	62.860	54.168	0.00	0.00
ATOM	2429	HG	LEU	X	157	43.836	62.239	53.273	0.00	0.00
ATOM	2430	CD1	LEU	X	157	43.936	64.312	53.698	0.00	0.00
ATOM	2431	HD11	LEU	X	157	44.780	64.411	53.017	0.00	0.00
ATOM	2432	HD12	LEU	X	157	44.188	64.980	54.522	0.00	0.00
ATOM	2433	HD13	LEU	X	157	43.032	64.475	53.111	0.00	0.00
ATOM	2434	CD2	LEU	X	157	45.130	62.430	54.987	0.00	0.00
ATOM	2435	HD21	LEU	X	157	45.056	61.351	55.126	0.00	0.00
ATOM	2436	HD22	LEU	X	157	46.066	62.688	54.491	0.00	0.00
ATOM	2437	HD23	LEU	X	157	45.231	63.058	55.872	0.00	0.00
ATOM	2438	C	LEU	X	157	40.795	61.553	56.439	0.00	0.00
ATOM	2439	O	LEU	X	157	39.708	61.398	55.969	0.00	0.00
ATOM	2440	N	PRO	X	158	40.915	61.862	57.776	0.00	0.00
ATOM	2441	CD	PRO	X	158	42.149	61.751	58.586	0.00	0.00
ATOM	2442	HD2	PRO	X	158	42.831	62.566	58.340	0.00	0.00
ATOM	2443	HD3	PRO	X	158	42.719	60.827	58.480	0.00	0.00
ATOM	2444	CG	PRO	X	158	41.790	62.025	60.083	0.00	0.00
ATOM	2445	HG2	PRO	X	158	41.708	63.067	60.394	0.00	0.00
ATOM	2446	HG3	PRO	X	158	42.240	61.441	60.886	0.00	0.00
ATOM	2447	CB	PRO	X	158	40.336	61.517	60.011	0.00	0.00
ATOM	2448	HB2	PRO	X	158	39.795	61.741	60.930	0.00	0.00
ATOM	2449	HB3	PRO	X	158	40.448	60.446	59.843	0.00	0.00
ATOM	2450	CA	PRO	X	158	39.744	62.049	58.675	0.00	0.00

ATOM	2451	HA	PRO	X	158	38.966	61.334	58.405	0.00	0.00
ATOM	2452	C	PRO	X	158	39.269	63.483	58.985	0.00	0.00
ATOM	2453	O	PRO	X	158	40.015	64.455	58.791	0.00	0.00
ATOM	2454	N	GLY	X	159	38.033	63.538	59.399	0.00	0.00
ATOM	2455	H	GLY	X	159	37.558	62.651	59.485	0.00	0.00
ATOM	2456	CA	GLY	X	159	37.322	64.802	59.880	0.00	0.00
ATOM	2457	HA2	GLY	X	159	36.586	64.405	60.579	0.00	0.00
ATOM	2458	HA3	GLY	X	159	37.960	65.458	60.472	0.00	0.00
ATOM	2459	C	GLY	X	159	36.586	65.643	58.881	0.00	0.00
ATOM	2460	O	GLY	X	159	36.078	66.710	59.249	0.00	0.00
ATOM	2461	N	SER	X	160	36.373	65.122	57.646	0.00	0.00
ATOM	2462	H	SER	X	160	36.726	64.197	57.441	0.00	0.00
ATOM	2463	CA	SER	X	160	35.813	65.845	56.466	0.00	0.00
ATOM	2464	HA	SER	X	160	34.845	66.247	56.763	0.00	0.00
ATOM	2465	CB	SER	X	160	36.545	67.149	56.108	0.00	0.00
ATOM	2466	HB2	SER	X	160	36.185	67.729	55.259	0.00	0.00
ATOM	2467	HB3	SER	X	160	36.447	67.780	56.991	0.00	0.00
ATOM	2468	OG	SER	X	160	37.959	67.049	55.977	0.00	0.00
ATOM	2469	HG	SER	X	160	38.324	67.892	56.257	0.00	0.00
ATOM	2470	C	SER	X	160	35.878	64.939	55.294	0.00	0.00
ATOM	2471	O	SER	X	160	36.634	63.961	55.236	0.00	0.00
ATOM	2472	N	ARG	X	161	35.091	65.187	54.197	0.00	0.00
ATOM	2473	H	ARG	X	161	34.559	66.045	54.188	0.00	0.00
ATOM	2474	CA	ARG	X	161	34.924	64.379	53.021	0.00	0.00
ATOM	2475	HA	ARG	X	161	35.100	63.330	53.261	0.00	0.00
ATOM	2476	CB	ARG	X	161	33.448	64.483	52.621	0.00	0.00
ATOM	2477	HB2	ARG	X	161	32.862	64.670	53.521	0.00	0.00
ATOM	2478	HB3	ARG	X	161	33.252	65.271	51.893	0.00	0.00
ATOM	2479	CG	ARG	X	161	32.971	63.130	52.007	0.00	0.00
ATOM	2480	HG2	ARG	X	161	32.232	63.358	51.238	0.00	0.00
ATOM	2481	HG3	ARG	X	161	33.724	62.680	51.360	0.00	0.00
ATOM	2482	CD	ARG	X	161	32.546	62.077	53.116	0.00	0.00
ATOM	2483	HD2	ARG	X	161	31.995	62.551	53.927	0.00	0.00
ATOM	2484	HD3	ARG	X	161	31.943	61.350	52.571	0.00	0.00
ATOM	2485	NE	ARG	X	161	33.646	61.286	53.702	0.00	0.00
ATOM	2486	HE	ARG	X	161	34.324	61.887	54.148	0.00	0.00
ATOM	2487	CZ	ARG	X	161	33.742	60.025	53.960	0.00	0.00
ATOM	2488	NH1	ARG	X	161	32.869	59.153	53.629	0.00	0.00
ATOM	2489	HH11	ARG	X	161	32.086	59.458	53.068	0.00	0.00
ATOM	2490	HH12	ARG	X	161	33.064	58.162	53.612	0.00	0.00
ATOM	2491	NH2	ARG	X	161	34.717	59.574	54.640	0.00	0.00
ATOM	2492	HH21	ARG	X	161	35.523	60.143	54.857	0.00	0.00
ATOM	2493	HH22	ARG	X	161	34.776	58.581	54.814	0.00	0.00
ATOM	2494	C	ARG	X	161	35.880	64.599	51.890	0.00	0.00
ATOM	2495	O	ARG	X	161	35.425	64.472	50.720	0.00	0.00
ATOM	2496	N	GLU	X	162	37.130	64.983	52.157	0.00	0.00
ATOM	2497	H	GLU	X	162	37.395	64.854	53.123	0.00	0.00
ATOM	2498	CA	GLU	X	162	38.044	65.483	51.090	0.00	0.00
ATOM	2499	HA	GLU	X	162	37.390	65.840	50.294	0.00	0.00
ATOM	2500	CB	GLU	X	162	38.741	66.796	51.670	0.00	0.00
ATOM	2501	HB2	GLU	X	162	39.322	66.534	52.554	0.00	0.00
ATOM	2502	HB3	GLU	X	162	39.276	67.216	50.819	0.00	0.00
ATOM	2503	CG	GLU	X	162	37.779	67.882	52.229	0.00	0.00
ATOM	2504	HG2	GLU	X	162	37.141	67.411	52.975	0.00	0.00
ATOM	2505	HG3	GLU	X	162	38.337	68.675	52.728	0.00	0.00
ATOM	2506	CD	GLU	X	162	36.961	68.484	51.052	0.00	0.00
ATOM	2507	OE1	GLU	X	162	37.461	69.339	50.289	0.00	0.00
ATOM	2508	OE2	GLU	X	162	35.821	68.047	50.845	0.00	0.00
ATOM	2509	C	GLU	X	162	38.952	64.416	50.469	0.00	0.00
ATOM	2510	O	GLU	X	162	39.126	64.396	49.263	0.00	0.00
ATOM	2511	N	ALA	X	163	39.204	63.395	51.197	0.00	0.00
ATOM	2512	H	ALA	X	163	39.193	63.583	52.189	0.00	0.00
ATOM	2513	CA	ALA	X	163	39.738	62.072	50.769	0.00	0.00
ATOM	2514	HA	ALA	X	163	39.628	61.874	49.703	0.00	0.00
ATOM	2515	CB	ALA	X	163	41.256	62.161	50.810	0.00	0.00
ATOM	2516	HB1	ALA	X	163	41.513	62.412	51.839	0.00	0.00
ATOM	2517	HB2	ALA	X	163	41.643	62.951	50.166	0.00	0.00

ATOM	2518	HB3	ALA	X	163	41.590	61.192	50.439	0.00	0.00
ATOM	2519	C	ALA	X	163	39.093	60.834	51.550	0.00	0.00
ATOM	2520	O	ALA	X	163	39.428	60.614	52.689	0.00	0.00
ATOM	2521	N	PRO	X	164	38.007	60.238	50.999	0.00	0.00
ATOM	2522	CD	PRO	X	164	37.280	60.615	49.804	0.00	0.00
ATOM	2523	HD2	PRO	X	164	37.888	60.741	48.908	0.00	0.00
ATOM	2524	HD3	PRO	X	164	36.797	61.545	50.103	0.00	0.00
ATOM	2525	CG	PRO	X	164	36.143	59.658	49.639	0.00	0.00
ATOM	2526	HG2	PRO	X	164	36.291	58.915	48.856	0.00	0.00
ATOM	2527	HG3	PRO	X	164	35.238	60.100	49.221	0.00	0.00
ATOM	2528	CB	PRO	X	164	35.965	59.200	51.028	0.00	0.00
ATOM	2529	HB2	PRO	X	164	35.459	58.235	51.053	0.00	0.00
ATOM	2530	HB3	PRO	X	164	35.284	59.948	51.434	0.00	0.00
ATOM	2531	CA	PRO	X	164	37.342	59.259	51.750	0.00	0.00
ATOM	2532	HA	PRO	X	164	37.181	59.696	52.735	0.00	0.00
ATOM	2533	C	PRO	X	164	38.070	57.908	51.682	0.00	0.00
ATOM	2534	O	PRO	X	164	37.833	57.057	52.551	0.00	0.00
ATOM	2535	N	GLY	X	165	38.963	57.774	50.646	0.00	0.00
ATOM	2536	H	GLY	X	165	39.336	58.604	50.209	0.00	0.00
ATOM	2537	CA	GLY	X	165	39.803	56.519	50.446	0.00	0.00
ATOM	2538	HA2	GLY	X	165	40.811	56.878	50.239	0.00	0.00
ATOM	2539	HA3	GLY	X	165	39.720	55.927	51.358	0.00	0.00
ATOM	2540	C	GLY	X	165	39.555	55.590	49.298	0.00	0.00
ATOM	2541	O	GLY	X	165	40.314	55.521	48.295	0.00	0.00
ATOM	2542	N	ASN	X	166	38.532	54.837	49.302	0.00	0.00
ATOM	2543	H	ASN	X	166	38.009	54.977	50.154	0.00	0.00
ATOM	2544	CA	ASN	X	166	38.173	53.654	48.533	0.00	0.00
ATOM	2545	HA	ASN	X	166	38.944	52.887	48.601	0.00	0.00
ATOM	2546	CB	ASN	X	166	36.974	53.030	49.275	0.00	0.00
ATOM	2547	HB2	ASN	X	166	36.098	53.662	49.422	0.00	0.00
ATOM	2548	HB3	ASN	X	166	36.835	52.082	48.754	0.00	0.00
ATOM	2549	CG	ASN	X	166	37.402	52.584	50.691	0.00	0.00
ATOM	2550	OD1	ASN	X	166	38.227	51.711	50.824	0.00	0.00
ATOM	2551	ND2	ASN	X	166	37.023	53.284	51.719	0.00	0.00
ATOM	2552	HD21	ASN	X	166	37.340	53.111	52.662	0.00	0.00
ATOM	2553	HD22	ASN	X	166	36.411	54.065	51.529	0.00	0.00
ATOM	2554	C	ASN	X	166	37.860	53.783	47.009	0.00	0.00
ATOM	2555	O	ASN	X	166	37.237	52.931	46.420	0.00	0.00
ATOM	2556	N	VAL	X	167	38.207	54.920	46.393	0.00	0.00
ATOM	2557	H	VAL	X	167	38.800	55.578	46.879	0.00	0.00
ATOM	2558	CA	VAL	X	167	37.699	55.401	45.124	0.00	0.00
ATOM	2559	HA	VAL	X	167	36.618	55.355	45.259	0.00	0.00
ATOM	2560	CB	VAL	X	167	37.959	56.907	44.909	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.309	57.340	44.149	0.00	0.00
ATOM	2562	CG1	VAL	X	167	37.655	57.711	46.196	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.241	57.486	47.087	0.00	0.00
ATOM	2564	HG12	VAL	X	167	37.659	58.779	45.978	0.00	0.00
ATOM	2565	HG13	VAL	X	167	36.602	57.538	46.417	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.481	57.199	44.537	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.100	56.868	45.371	0.00	0.00
ATOM	2568	HG22	VAL	X	167	39.673	58.272	44.524	0.00	0.00
ATOM	2569	HG23	VAL	X	167	39.731	56.824	43.545	0.00	0.00
ATOM	2570	C	VAL	X	167	38.055	54.518	43.899	0.00	0.00
ATOM	2571	O	VAL	X	167	37.392	54.687	42.838	0.00	0.00
ATOM	2572	N	GLY	X	168	39.114	53.633	43.945	0.00	0.00
ATOM	2573	H	GLY	X	168	39.828	53.620	44.658	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.277	52.672	42.782	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.323	53.169	41.813	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.259	52.204	42.849	0.00	0.00
ATOM	2577	C	GLY	X	168	38.273	51.482	42.774	0.00	0.00
ATOM	2578	O	GLY	X	168	38.079	50.880	41.733	0.00	0.00
ATOM	2579	N	LEU	X	169	37.636	51.229	43.900	0.00	0.00
ATOM	2580	H	LEU	X	169	37.791	51.873	44.663	0.00	0.00
ATOM	2581	CA	LEU	X	169	36.544	50.249	44.044	0.00	0.00
ATOM	2582	HA	LEU	X	169	36.724	49.355	43.447	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.329	49.874	45.497	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.354	50.806	46.061	0.00	0.00

ATOM	2585	HB3	LEU	X	169	35.358	49.421	45.700	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.382	48.986	46.133	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.342	49.504	46.124	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.062	48.778	47.612	0.00	0.00
ATOM	2589	HD11	LEU	X	169	36.067	48.348	47.726	0.00	0.00
ATOM	2590	HD12	LEU	X	169	37.036	49.743	48.118	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.811	48.085	47.995	0.00	0.00
ATOM	2592	CD2	LEU	X	169	37.526	47.697	45.379	0.00	0.00
ATOM	2593	HD21	LEU	X	169	38.023	47.940	44.440	0.00	0.00
ATOM	2594	HD22	LEU	X	169	38.174	47.004	45.916	0.00	0.00
ATOM	2595	HD23	LEU	X	169	36.544	47.231	45.300	0.00	0.00
ATOM	2596	C	LEU	X	169	35.316	50.919	43.484	0.00	0.00
ATOM	2597	O	LEU	X	169	34.488	50.252	42.883	0.00	0.00
ATOM	2598	N	LEU	X	170	35.130	52.236	43.535	0.00	0.00
ATOM	2599	H	LEU	X	170	35.849	52.760	44.013	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.062	52.961	42.916	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.192	52.304	42.916	0.00	0.00
ATOM	2602	CB	LEU	X	170	33.867	54.280	43.714	0.00	0.00
ATOM	2603	HB2	LEU	X	170	34.749	54.898	43.548	0.00	0.00
ATOM	2604	HB3	LEU	X	170	32.968	54.840	43.457	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.871	53.980	45.232	0.00	0.00
ATOM	2606	HG	LEU	X	170	34.885	53.688	45.504	0.00	0.00
ATOM	2607	CD1	LEU	X	170	33.570	55.252	46.048	0.00	0.00
ATOM	2608	HD11	LEU	X	170	33.681	55.068	47.117	0.00	0.00
ATOM	2609	HD12	LEU	X	170	32.564	55.611	45.831	0.00	0.00
ATOM	2610	HD13	LEU	X	170	34.165	56.098	45.701	0.00	0.00
ATOM	2611	CD2	LEU	X	170	32.953	52.842	45.663	0.00	0.00
ATOM	2612	HD21	LEU	X	170	31.888	53.031	45.535	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.306	51.862	45.342	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.960	52.815	46.753	0.00	0.00
ATOM	2615	C	LEU	X	170	34.360	53.216	41.485	0.00	0.00
ATOM	2616	O	LEU	X	170	33.390	53.234	40.724	0.00	0.00
ATOM	2617	N	ASP	X	171	35.596	53.367	40.991	0.00	0.00
ATOM	2618	H	ASP	X	171	36.326	53.577	41.657	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.958	53.371	39.507	0.00	0.00
ATOM	2620	HA	ASP	X	171	35.293	54.066	38.993	0.00	0.00
ATOM	2621	CB	ASP	X	171	37.423	53.535	39.303	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.889	52.784	39.941	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.574	53.460	38.226	0.00	0.00
ATOM	2624	CG	ASP	X	171	38.058	54.885	39.601	0.00	0.00
ATOM	2625	OD1	ASP	X	171	37.405	55.956	39.571	0.00	0.00
ATOM	2626	OD2	ASP	X	171	39.255	54.835	39.808	0.00	0.00
ATOM	2627	C	ASP	X	171	35.513	52.009	38.901	0.00	0.00
ATOM	2628	O	ASP	X	171	34.914	51.965	37.850	0.00	0.00
ATOM	2629	N	GLN	X	172	35.666	50.901	39.660	0.00	0.00
ATOM	2630	H	GLN	X	172	36.211	50.989	40.506	0.00	0.00
ATOM	2631	CA	GLN	X	172	35.090	49.636	39.170	0.00	0.00
ATOM	2632	HA	GLN	X	172	35.428	49.424	38.155	0.00	0.00
ATOM	2633	CB	GLN	X	172	35.663	48.494	40.050	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.380	48.642	41.092	0.00	0.00
ATOM	2635	HB3	GLN	X	172	35.106	47.624	39.703	0.00	0.00
ATOM	2636	CG	GLN	X	172	37.148	48.144	39.914	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.385	47.689	38.952	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.645	49.111	39.992	0.00	0.00
ATOM	2639	CD	GLN	X	172	37.666	47.325	41.122	0.00	0.00
ATOM	2640	OE1	GLN	X	172	36.903	46.571	41.760	0.00	0.00
ATOM	2641	NE2	GLN	X	172	38.872	47.576	41.473	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.350	46.941	42.096	0.00	0.00
ATOM	2643	HE22	GLN	X	172	39.328	48.243	40.868	0.00	0.00
ATOM	2644	C	GLN	X	172	33.540	49.764	39.158	0.00	0.00
ATOM	2645	O	GLN	X	172	32.902	49.474	38.139	0.00	0.00
ATOM	2646	N	ARG	X	173	32.970	50.075	40.334	0.00	0.00
ATOM	2647	H	ARG	X	173	33.628	50.158	41.095	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.479	50.071	40.475	0.00	0.00
ATOM	2649	HA	ARG	X	173	31.172	49.041	40.293	0.00	0.00
ATOM	2650	CB	ARG	X	173	31.110	50.450	41.965	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.677	49.960	42.756	0.00	0.00

ATOM	2652	HB3	ARG	X	173	31.365	51.506	42.062	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.609	50.317	42.222	0.00	0.00
ATOM	2654	HG2	ARG	X	173	29.029	50.890	41.499	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.346	49.268	42.086	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.222	50.882	43.596	0.00	0.00
ATOM	2657	HD2	ARG	X	173	29.866	51.697	43.925	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.203	51.269	43.578	0.00	0.00
ATOM	2659	NE	ARG	X	173	29.344	49.799	44.603	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.305	48.854	44.250	0.00	0.00
ATOM	2661	CZ	ARG	X	173	29.430	49.959	45.893	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.484	51.112	46.510	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.543	51.946	45.944	0.00	0.00
ATOM	2664	HH12	ARG	X	173	29.451	51.256	47.510	0.00	0.00
ATOM	2665	NH2	ARG	X	173	29.512	48.895	46.682	0.00	0.00
ATOM	2666	HH21	ARG	X	173	29.633	47.996	46.237	0.00	0.00
ATOM	2667	HH22	ARG	X	173	29.677	48.993	47.673	0.00	0.00
ATOM	2668	C	ARG	X	173	30.807	50.971	39.389	0.00	0.00
ATOM	2669	O	ARG	X	173	29.671	50.589	38.982	0.00	0.00
ATOM	2670	N	LEU	X	174	31.469	51.937	38.818	0.00	0.00
ATOM	2671	H	LEU	X	174	32.389	52.123	39.190	0.00	0.00
ATOM	2672	CA	LEU	X	174	30.914	52.838	37.789	0.00	0.00
ATOM	2673	HA	LEU	X	174	29.893	53.037	38.114	0.00	0.00
ATOM	2674	CB	LEU	X	174	31.680	54.222	37.858	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.568	54.651	38.854	0.00	0.00
ATOM	2676	HB3	LEU	X	174	32.665	53.866	37.558	0.00	0.00
ATOM	2677	CG	LEU	X	174	31.255	55.239	36.795	0.00	0.00
ATOM	2678	HG	LEU	X	174	31.304	54.706	35.846	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.862	55.723	36.797	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.178	54.919	37.069	0.00	0.00
ATOM	2681	HD12	LEU	X	174	29.613	56.047	35.787	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.812	56.537	37.521	0.00	0.00
ATOM	2683	CD2	LEU	X	174	32.277	56.374	36.593	0.00	0.00
ATOM	2684	HD21	LEU	X	174	32.027	57.001	35.738	0.00	0.00
ATOM	2685	HD22	LEU	X	174	32.275	56.899	37.548	0.00	0.00
ATOM	2686	HD23	LEU	X	174	33.272	55.932	36.535	0.00	0.00
ATOM	2687	C	LEU	X	174	30.821	52.158	36.461	0.00	0.00
ATOM	2688	O	LEU	X	174	29.845	52.204	35.636	0.00	0.00
ATOM	2689	N	ALA	X	175	31.837	51.338	36.156	0.00	0.00
ATOM	2690	H	ALA	X	175	32.648	51.320	36.757	0.00	0.00
ATOM	2691	CA	ALA	X	175	31.829	50.449	34.979	0.00	0.00
ATOM	2692	HA	ALA	X	175	31.546	51.063	34.124	0.00	0.00
ATOM	2693	CB	ALA	X	175	33.270	49.910	34.862	0.00	0.00
ATOM	2694	HB1	ALA	X	175	33.953	50.716	34.594	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.332	49.136	34.097	0.00	0.00
ATOM	2696	HB3	ALA	X	175	33.541	49.528	35.846	0.00	0.00
ATOM	2697	C	ALA	X	175	30.882	49.291	35.092	0.00	0.00
ATOM	2698	O	ALA	X	175	30.177	49.013	34.091	0.00	0.00
ATOM	2699	N	LEU	X	176	30.728	48.656	36.278	0.00	0.00
ATOM	2700	H	LEU	X	176	31.391	48.846	37.016	0.00	0.00
ATOM	2701	CA	LEU	X	176	29.669	47.574	36.448	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.828	46.772	35.727	0.00	0.00
ATOM	2703	CB	LEU	X	176	29.812	46.983	37.878	0.00	0.00
ATOM	2704	HB2	LEU	X	176	29.485	47.771	38.557	0.00	0.00
ATOM	2705	HB3	LEU	X	176	29.177	46.098	37.860	0.00	0.00
ATOM	2706	CG	LEU	X	176	31.240	46.469	38.362	0.00	0.00
ATOM	2707	HG	LEU	X	176	31.916	47.248	38.715	0.00	0.00
ATOM	2708	CD1	LEU	X	176	31.107	45.505	39.577	0.00	0.00
ATOM	2709	HD11	LEU	X	176	30.668	45.980	40.454	0.00	0.00
ATOM	2710	HD12	LEU	X	176	32.062	45.045	39.829	0.00	0.00
ATOM	2711	HD13	LEU	X	176	30.461	44.674	39.294	0.00	0.00
ATOM	2712	CD2	LEU	X	176	31.957	45.716	37.180	0.00	0.00
ATOM	2713	HD21	LEU	X	176	32.936	45.347	37.486	0.00	0.00
ATOM	2714	HD22	LEU	X	176	31.376	44.848	36.869	0.00	0.00
ATOM	2715	HD23	LEU	X	176	32.107	46.353	36.309	0.00	0.00
ATOM	2716	C	LEU	X	176	28.211	48.063	36.283	0.00	0.00
ATOM	2717	O	LEU	X	176	27.301	47.326	35.890	0.00	0.00
ATOM	2718	N	GLN	X	177	27.974	49.337	36.498	0.00	0.00

ATOM	2719	H	GLN	X	177	28.586	49.936	37.034	0.00	0.00
ATOM	2720	CA	GLN	X	177	26.709	49.958	36.078	0.00	0.00
ATOM	2721	HA	GLN	X	177	25.936	49.209	36.253	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.511	51.293	36.726	0.00	0.00
ATOM	2723	HB2	GLN	X	177	27.348	51.886	36.356	0.00	0.00
ATOM	2724	HB3	GLN	X	177	25.678	51.799	36.239	0.00	0.00
ATOM	2725	CG	GLN	X	177	26.345	51.406	38.268	0.00	0.00
ATOM	2726	HG2	GLN	X	177	25.419	50.925	38.586	0.00	0.00
ATOM	2727	HG3	GLN	X	177	27.207	50.942	38.746	0.00	0.00
ATOM	2728	CD	GLN	X	177	26.362	52.881	38.652	0.00	0.00
ATOM	2729	OE1	GLN	X	177	27.284	53.660	38.424	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.360	53.370	39.314	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.484	54.252	39.791	0.00	0.00
ATOM	2732	HE22	GLN	X	177	24.589	52.812	39.652	0.00	0.00
ATOM	2733	C	GLN	X	177	26.579	49.973	34.486	0.00	0.00
ATOM	2734	O	GLN	X	177	25.503	49.562	33.974	0.00	0.00
ATOM	2735	N	TRP	X	178	27.590	50.477	33.763	0.00	0.00
ATOM	2736	H	TRP	X	178	28.412	50.764	34.276	0.00	0.00
ATOM	2737	CA	TRP	X	178	27.658	50.544	32.311	0.00	0.00
ATOM	2738	HA	TRP	X	178	26.942	51.288	31.959	0.00	0.00
ATOM	2739	CB	TRP	X	178	29.055	51.080	31.886	0.00	0.00
ATOM	2740	HB2	TRP	X	178	29.134	52.036	32.403	0.00	0.00
ATOM	2741	HB3	TRP	X	178	29.886	50.414	32.119	0.00	0.00
ATOM	2742	CG	TRP	X	178	29.271	51.389	30.478	0.00	0.00
ATOM	2743	CD1	TRP	X	178	29.405	52.641	30.070	0.00	0.00
ATOM	2744	HD1	TRP	X	178	29.315	53.464	30.764	0.00	0.00
ATOM	2745	NE1	TRP	X	178	29.591	52.642	28.685	0.00	0.00
ATOM	2746	HE1	TRP	X	178	29.770	53.510	28.201	0.00	0.00
ATOM	2747	CE2	TRP	X	178	29.792	51.322	28.205	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	30.224	50.787	26.972	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	30.338	51.310	26.034	0.00	0.00
ATOM	2750	CH2	TRP	X	178	30.412	49.380	26.838	0.00	0.00
ATOM	2751	HH2	TRP	X	178	30.586	48.956	25.860	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	30.145	48.508	27.842	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	30.369	47.458	27.724	0.00	0.00
ATOM	2754	CE3	TRP	X	178	29.849	49.082	29.149	0.00	0.00
ATOM	2755	HE3	TRP	X	178	29.813	48.445	30.021	0.00	0.00
ATOM	2756	CD2	TRP	X	178	29.645	50.490	29.366	0.00	0.00
ATOM	2757	C	TRP	X	178	27.455	49.136	31.706	0.00	0.00
ATOM	2758	O	TRP	X	178	26.772	48.899	30.754	0.00	0.00
ATOM	2759	N	VAL	X	179	28.088	48.098	32.273	0.00	0.00
ATOM	2760	H	VAL	X	179	28.759	48.267	33.009	0.00	0.00
ATOM	2761	CA	VAL	X	179	27.847	46.669	31.938	0.00	0.00
ATOM	2762	HA	VAL	X	179	28.334	46.590	30.966	0.00	0.00
ATOM	2763	CB	VAL	X	179	28.613	45.663	32.873	0.00	0.00
ATOM	2764	HB	VAL	X	179	28.361	45.913	33.903	0.00	0.00
ATOM	2765	CG1	VAL	X	179	28.212	44.195	32.800	0.00	0.00
ATOM	2766	HG11	VAL	X	179	27.152	44.065	33.021	0.00	0.00
ATOM	2767	HG12	VAL	X	179	28.494	43.746	31.848	0.00	0.00
ATOM	2768	HG13	VAL	X	179	28.725	43.660	33.600	0.00	0.00
ATOM	2769	CG2	VAL	X	179	30.073	45.797	32.709	0.00	0.00
ATOM	2770	HG21	VAL	X	179	30.421	45.514	31.716	0.00	0.00
ATOM	2771	HG22	VAL	X	179	30.565	45.138	33.424	0.00	0.00
ATOM	2772	HG23	VAL	X	179	30.336	46.847	32.833	0.00	0.00
ATOM	2773	C	VAL	X	179	26.349	46.333	31.734	0.00	0.00
ATOM	2774	O	VAL	X	179	25.907	45.857	30.662	0.00	0.00
ATOM	2775	N	GLN	X	180	25.576	46.578	32.814	0.00	0.00
ATOM	2776	H	GLN	X	180	26.061	46.800	33.672	0.00	0.00
ATOM	2777	CA	GLN	X	180	24.169	46.180	32.992	0.00	0.00
ATOM	2778	HA	GLN	X	180	24.105	45.101	32.852	0.00	0.00
ATOM	2779	CB	GLN	X	180	23.749	46.531	34.419	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.372	45.799	34.933	0.00	0.00
ATOM	2781	HB3	GLN	X	180	24.130	47.535	34.602	0.00	0.00
ATOM	2782	CG	GLN	X	180	22.242	46.469	34.748	0.00	0.00
ATOM	2783	HG2	GLN	X	180	21.711	47.388	34.497	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.761	45.698	34.146	0.00	0.00
ATOM	2785	CD	GLN	X	180	22.057	46.105	36.231	0.00	0.00

ATOM	2786	OE1	GLN	X	180	21.524	46.906	37.014	0.00	0.00
ATOM	2787	NE2	GLN	X	180	22.381	44.934	36.674	0.00	0.00
ATOM	2788	HE21	GLN	X	180	22.252	44.588	37.614	0.00	0.00
ATOM	2789	HE22	GLN	X	180	22.919	44.427	35.986	0.00	0.00
ATOM	2790	C	GLN	X	180	23.308	46.972	31.987	0.00	0.00
ATOM	2791	O	GLN	X	180	22.476	46.460	31.327	0.00	0.00
ATOM	2792	N	GLU	X	181	23.745	48.177	31.634	0.00	0.00
ATOM	2793	H	GLU	X	181	24.543	48.458	32.186	0.00	0.00
ATOM	2794	CA	GLU	X	181	23.067	49.222	30.800	0.00	0.00
ATOM	2795	HA	GLU	X	181	21.988	49.147	30.938	0.00	0.00
ATOM	2796	CB	GLU	X	181	23.527	50.651	31.288	0.00	0.00
ATOM	2797	HB2	GLU	X	181	23.319	50.669	32.358	0.00	0.00
ATOM	2798	HB3	GLU	X	181	24.576	50.787	31.028	0.00	0.00
ATOM	2799	CG	GLU	X	181	22.661	51.689	30.635	0.00	0.00
ATOM	2800	HG2	GLU	X	181	22.867	51.560	29.572	0.00	0.00
ATOM	2801	HG3	GLU	X	181	21.611	51.482	30.841	0.00	0.00
ATOM	2802	CD	GLU	X	181	23.163	53.079	31.047	0.00	0.00
ATOM	2803	OE1	GLU	X	181	22.489	53.789	31.817	0.00	0.00
ATOM	2804	OE2	GLU	X	181	24.193	53.632	30.590	0.00	0.00
ATOM	2805	C	GLU	X	181	23.416	49.005	29.321	0.00	0.00
ATOM	2806	O	GLU	X	181	22.568	49.204	28.446	0.00	0.00
ATOM	2807	N	ASN	X	182	24.654	48.553	28.938	0.00	0.00
ATOM	2808	H	ASN	X	182	25.318	48.261	29.641	0.00	0.00
ATOM	2809	CA	ASN	X	182	25.221	48.713	27.540	0.00	0.00
ATOM	2810	HA	ASN	X	182	24.464	49.032	26.822	0.00	0.00
ATOM	2811	CB	ASN	X	182	26.338	49.721	27.516	0.00	0.00
ATOM	2812	HB2	ASN	X	182	27.101	49.368	28.211	0.00	0.00
ATOM	2813	HB3	ASN	X	182	26.674	49.751	26.479	0.00	0.00
ATOM	2814	CG	ASN	X	182	25.889	51.115	27.933	0.00	0.00
ATOM	2815	OD1	ASN	X	182	25.213	51.803	27.168	0.00	0.00
ATOM	2816	ND2	ASN	X	182	26.154	51.677	29.117	0.00	0.00
ATOM	2817	HD21	ASN	X	182	25.795	52.618	29.204	0.00	0.00
ATOM	2818	HD22	ASN	X	182	26.646	51.231	29.877	0.00	0.00
ATOM	2819	C	ASN	X	182	25.822	47.434	26.978	0.00	0.00
ATOM	2820	O	ASN	X	182	25.955	47.384	25.731	0.00	0.00
ATOM	2821	N	VAL	X	183	26.126	46.388	27.778	0.00	0.00
ATOM	2822	H	VAL	X	183	25.852	46.314	28.748	0.00	0.00
ATOM	2823	CA	VAL	X	183	26.712	45.149	27.162	0.00	0.00
ATOM	2824	HA	VAL	X	183	27.565	45.533	26.602	0.00	0.00
ATOM	2825	CB	VAL	X	183	27.214	44.091	28.133	0.00	0.00
ATOM	2826	HB	VAL	X	183	27.623	44.668	28.962	0.00	0.00
ATOM	2827	CG1	VAL	X	183	26.192	43.081	28.716	0.00	0.00
ATOM	2828	HG11	VAL	X	183	25.319	43.613	29.093	0.00	0.00
ATOM	2829	HG12	VAL	X	183	25.954	42.299	27.994	0.00	0.00
ATOM	2830	HG13	VAL	X	183	26.747	42.631	29.539	0.00	0.00
ATOM	2831	CG2	VAL	X	183	28.406	43.268	27.629	0.00	0.00
ATOM	2832	HG21	VAL	X	183	28.378	43.028	26.566	0.00	0.00
ATOM	2833	HG22	VAL	X	183	28.449	42.264	28.053	0.00	0.00
ATOM	2834	HG23	VAL	X	183	29.298	43.866	27.814	0.00	0.00
ATOM	2835	C	VAL	X	183	25.845	44.411	26.135	0.00	0.00
ATOM	2836	O	VAL	X	183	26.456	43.895	25.198	0.00	0.00
ATOM	2837	N	ALA	X	184	24.527	44.378	26.285	0.00	0.00
ATOM	2838	H	ALA	X	184	24.238	44.922	27.085	0.00	0.00
ATOM	2839	CA	ALA	X	184	23.660	43.871	25.246	0.00	0.00
ATOM	2840	HA	ALA	X	184	23.950	42.849	25.003	0.00	0.00
ATOM	2841	CB	ALA	X	184	22.221	43.770	25.810	0.00	0.00
ATOM	2842	HB1	ALA	X	184	22.220	43.349	26.815	0.00	0.00
ATOM	2843	HB2	ALA	X	184	21.693	43.042	25.194	0.00	0.00
ATOM	2844	HB3	ALA	X	184	21.689	44.713	25.679	0.00	0.00
ATOM	2845	C	ALA	X	184	23.767	44.562	23.804	0.00	0.00
ATOM	2846	O	ALA	X	184	23.368	43.955	22.836	0.00	0.00
ATOM	2847	N	ALA	X	185	24.502	45.660	23.736	0.00	0.00
ATOM	2848	H	ALA	X	185	24.962	45.985	24.574	0.00	0.00
ATOM	2849	CA	ALA	X	185	24.747	46.231	22.487	0.00	0.00
ATOM	2850	HA	ALA	X	185	23.853	46.230	21.863	0.00	0.00
ATOM	2851	CB	ALA	X	185	25.213	47.697	22.751	0.00	0.00
ATOM	2852	HB1	ALA	X	185	25.247	48.284	21.834	0.00	0.00

ATOM	2853	HB2	ALA	X	185	26.184	47.741	23.245	0.00	0.00
ATOM	2854	HB3	ALA	X	185	24.496	48.242	23.365	0.00	0.00
ATOM	2855	C	ALA	X	185	25.920	45.563	21.728	0.00	0.00
ATOM	2856	O	ALA	X	185	25.884	45.428	20.488	0.00	0.00
ATOM	2857	N	PHE	X	186	26.958	45.028	22.477	0.00	0.00
ATOM	2858	H	PHE	X	186	26.998	45.096	23.484	0.00	0.00
ATOM	2859	CA	PHE	X	186	28.081	44.336	21.911	0.00	0.00
ATOM	2860	HA	PHE	X	186	28.158	44.623	20.863	0.00	0.00
ATOM	2861	CB	PHE	X	186	29.437	44.677	22.562	0.00	0.00
ATOM	2862	HB2	PHE	X	186	29.516	44.166	23.522	0.00	0.00
ATOM	2863	HB3	PHE	X	186	30.188	44.329	21.852	0.00	0.00
ATOM	2864	CG	PHE	X	186	29.770	46.147	22.957	0.00	0.00
ATOM	2865	CD1	PHE	X	186	28.952	46.780	23.936	0.00	0.00
ATOM	2866	HD1	PHE	X	186	28.207	46.175	24.430	0.00	0.00
ATOM	2867	CE1	PHE	X	186	29.013	48.159	24.134	0.00	0.00
ATOM	2868	HE1	PHE	X	186	28.405	48.665	24.869	0.00	0.00
ATOM	2869	CZ	PHE	X	186	29.961	48.860	23.525	0.00	0.00
ATOM	2870	HZ	PHE	X	186	30.047	49.933	23.612	0.00	0.00
ATOM	2871	CE2	PHE	X	186	30.883	48.343	22.631	0.00	0.00
ATOM	2872	HE2	PHE	X	186	31.653	48.986	22.231	0.00	0.00
ATOM	2873	CD2	PHE	X	186	30.879	46.873	22.442	0.00	0.00
ATOM	2874	HD2	PHE	X	186	31.542	46.386	21.743	0.00	0.00
ATOM	2875	C	PHE	X	186	27.821	42.858	21.757	0.00	0.00
ATOM	2876	O	PHE	X	186	28.553	42.191	21.033	0.00	0.00
ATOM	2877	N	GLY	X	187	26.747	42.303	22.310	0.00	0.00
ATOM	2878	H	GLY	X	187	26.186	42.969	22.822	0.00	0.00
ATOM	2879	CA	GLY	X	187	26.305	40.947	22.079	0.00	0.00
ATOM	2880	HA2	GLY	X	187	25.267	40.890	21.752	0.00	0.00
ATOM	2881	HA3	GLY	X	187	26.732	40.467	21.199	0.00	0.00
ATOM	2882	C	GLY	X	187	26.319	39.966	23.281	0.00	0.00
ATOM	2883	O	GLY	X	187	25.852	38.812	23.267	0.00	0.00
ATOM	2884	N	GLY	X	188	26.644	40.449	24.496	0.00	0.00
ATOM	2885	H	GLY	X	188	26.675	41.457	24.556	0.00	0.00
ATOM	2886	CA	GLY	X	188	26.585	39.662	25.773	0.00	0.00
ATOM	2887	HA2	GLY	X	188	26.755	38.591	25.656	0.00	0.00
ATOM	2888	HA3	GLY	X	188	27.244	40.153	26.490	0.00	0.00
ATOM	2889	C	GLY	X	188	25.234	39.753	26.503	0.00	0.00
ATOM	2890	O	GLY	X	188	24.451	40.675	26.213	0.00	0.00
ATOM	2891	N	ASP	X	189	24.998	38.915	27.519	0.00	0.00
ATOM	2892	H	ASP	X	189	25.562	38.076	27.534	0.00	0.00
ATOM	2893	CA	ASP	X	189	23.794	38.881	28.383	0.00	0.00
ATOM	2894	HA	ASP	X	189	23.067	39.354	27.722	0.00	0.00
ATOM	2895	CB	ASP	X	189	23.363	37.385	28.548	0.00	0.00
ATOM	2896	HB2	ASP	X	189	23.141	36.905	27.595	0.00	0.00
ATOM	2897	HB3	ASP	X	189	24.180	36.834	29.013	0.00	0.00
ATOM	2898	CG	ASP	X	189	22.123	37.239	29.354	0.00	0.00
ATOM	2899	OD1	ASP	X	189	21.945	36.186	29.984	0.00	0.00
ATOM	2900	OD2	ASP	X	189	21.325	38.216	29.368	0.00	0.00
ATOM	2901	C	ASP	X	189	23.997	39.550	29.761	0.00	0.00
ATOM	2902	O	ASP	X	189	24.594	38.920	30.671	0.00	0.00
ATOM	2903	N	PRO	X	190	23.374	40.717	29.921	0.00	0.00
ATOM	2904	CD	PRO	X	190	22.660	41.581	28.866	0.00	0.00
ATOM	2905	HD2	PRO	X	190	22.072	41.040	28.125	0.00	0.00
ATOM	2906	HD3	PRO	X	190	23.402	42.088	28.249	0.00	0.00
ATOM	2907	CG	PRO	X	190	21.851	42.647	29.629	0.00	0.00
ATOM	2908	HG2	PRO	X	190	20.902	42.217	29.950	0.00	0.00
ATOM	2909	HG3	PRO	X	190	21.569	43.552	29.092	0.00	0.00
ATOM	2910	CB	PRO	X	190	22.666	42.889	30.908	0.00	0.00
ATOM	2911	HB2	PRO	X	190	21.994	43.288	31.667	0.00	0.00
ATOM	2912	HB3	PRO	X	190	23.492	43.541	30.623	0.00	0.00
ATOM	2913	CA	PRO	X	190	23.323	41.491	31.181	0.00	0.00
ATOM	2914	HA	PRO	X	190	24.371	41.570	31.470	0.00	0.00
ATOM	2915	C	PRO	X	190	22.534	40.738	32.270	0.00	0.00
ATOM	2916	O	PRO	X	190	22.528	41.231	33.413	0.00	0.00
ATOM	2917	N	THR	X	191	21.898	39.575	32.014	0.00	0.00
ATOM	2918	H	THR	X	191	21.857	39.177	31.087	0.00	0.00
ATOM	2919	CA	THR	X	191	21.267	38.769	33.118	0.00	0.00

ATOM	2920	HA	THR	X	191	21.236	39.348	34.041	0.00	0.00
ATOM	2921	CB	THR	X	191	19.839	38.207	32.801	0.00	0.00
ATOM	2922	HB	THR	X	191	19.580	37.645	33.698	0.00	0.00
ATOM	2923	CG2	THR	X	191	18.674	39.183	32.552	0.00	0.00
ATOM	2924	HG21	THR	X	191	17.772	38.588	32.408	0.00	0.00
ATOM	2925	HG22	THR	X	191	18.973	39.757	31.675	0.00	0.00
ATOM	2926	HG23	THR	X	191	18.540	39.873	33.384	0.00	0.00
ATOM	2927	OG1	THR	X	191	19.816	37.331	31.738	0.00	0.00
ATOM	2928	HG1	THR	X	191	20.481	37.666	31.133	0.00	0.00
ATOM	2929	C	THR	X	191	22.269	37.709	33.602	0.00	0.00
ATOM	2930	O	THR	X	191	21.963	37.092	34.629	0.00	0.00
ATOM	2931	N	SER	X	192	23.393	37.531	32.900	0.00	0.00
ATOM	2932	H	SER	X	192	23.621	38.126	32.116	0.00	0.00
ATOM	2933	CA	SER	X	192	24.421	36.514	33.123	0.00	0.00
ATOM	2934	HA	SER	X	192	24.068	35.942	33.981	0.00	0.00
ATOM	2935	CB	SER	X	192	24.446	35.623	31.889	0.00	0.00
ATOM	2936	HB2	SER	X	192	24.563	36.317	31.057	0.00	0.00
ATOM	2937	HB3	SER	X	192	25.247	34.885	31.842	0.00	0.00
ATOM	2938	OG	SER	X	192	23.172	35.001	31.831	0.00	0.00
ATOM	2939	HG	SER	X	192	22.640	35.423	31.151	0.00	0.00
ATOM	2940	C	SER	X	192	25.859	37.061	33.334	0.00	0.00
ATOM	2941	O	SER	X	192	26.797	36.667	32.651	0.00	0.00
ATOM	2942	N	VAL	X	193	26.044	37.993	34.296	0.00	0.00
ATOM	2943	H	VAL	X	193	25.238	38.229	34.857	0.00	0.00
ATOM	2944	CA	VAL	X	193	27.328	38.713	34.751	0.00	0.00
ATOM	2945	HA	VAL	X	193	27.968	38.865	33.883	0.00	0.00
ATOM	2946	CB	VAL	X	193	26.978	40.115	35.264	0.00	0.00
ATOM	2947	HB	VAL	X	193	26.499	39.959	36.231	0.00	0.00
ATOM	2948	CG1	VAL	X	193	28.192	40.976	35.252	0.00	0.00
ATOM	2949	HG11	VAL	X	193	29.040	40.590	35.818	0.00	0.00
ATOM	2950	HG12	VAL	X	193	28.480	40.997	34.201	0.00	0.00
ATOM	2951	HG13	VAL	X	193	27.919	41.908	35.746	0.00	0.00
ATOM	2952	CG2	VAL	X	193	25.944	40.830	34.293	0.00	0.00
ATOM	2953	HG21	VAL	X	193	26.082	40.493	33.265	0.00	0.00
ATOM	2954	HG22	VAL	X	193	26.075	41.909	34.375	0.00	0.00
ATOM	2955	HG23	VAL	X	193	24.911	40.562	34.513	0.00	0.00
ATOM	2956	C	VAL	X	193	28.010	37.977	35.866	0.00	0.00
ATOM	2957	O	VAL	X	193	27.454	37.749	36.951	0.00	0.00
ATOM	2958	N	THR	X	194	29.261	37.656	35.516	0.00	0.00
ATOM	2959	H	THR	X	194	29.494	37.910	34.567	0.00	0.00
ATOM	2960	CA	THR	X	194	30.317	37.196	36.480	0.00	0.00
ATOM	2961	HA	THR	X	194	29.852	36.996	37.446	0.00	0.00
ATOM	2962	CB	THR	X	194	31.025	35.952	35.939	0.00	0.00
ATOM	2963	HB	THR	X	194	31.462	36.200	34.971	0.00	0.00
ATOM	2964	CG2	THR	X	194	31.973	35.346	36.930	0.00	0.00
ATOM	2965	HG21	THR	X	194	32.083	34.265	36.850	0.00	0.00
ATOM	2966	HG22	THR	X	194	31.627	35.438	37.959	0.00	0.00
ATOM	2967	HG23	THR	X	194	32.944	35.838	36.878	0.00	0.00
ATOM	2968	OG1	THR	X	194	30.039	34.946	35.989	0.00	0.00
ATOM	2969	HG1	THR	X	194	29.396	35.045	35.283	0.00	0.00
ATOM	2970	C	THR	X	194	31.447	38.163	36.783	0.00	0.00
ATOM	2971	O	THR	X	194	32.039	38.664	35.836	0.00	0.00
ATOM	2972	N	LEU	X	195	31.814	38.467	38.037	0.00	0.00
ATOM	2973	H	LEU	X	195	31.289	38.255	38.873	0.00	0.00
ATOM	2974	CA	LEU	X	195	33.023	39.295	38.289	0.00	0.00
ATOM	2975	HA	LEU	X	195	33.361	40.048	37.577	0.00	0.00
ATOM	2976	CB	LEU	X	195	32.824	40.164	39.526	0.00	0.00
ATOM	2977	HB2	LEU	X	195	32.627	39.475	40.347	0.00	0.00
ATOM	2978	HB3	LEU	X	195	33.725	40.767	39.635	0.00	0.00
ATOM	2979	CG	LEU	X	195	31.591	41.065	39.426	0.00	0.00
ATOM	2980	HG	LEU	X	195	30.789	40.354	39.625	0.00	0.00
ATOM	2981	CD1	LEU	X	195	31.496	41.895	40.689	0.00	0.00
ATOM	2982	HD11	LEU	X	195	30.479	42.283	40.749	0.00	0.00
ATOM	2983	HD12	LEU	X	195	32.309	42.621	40.685	0.00	0.00
ATOM	2984	HD13	LEU	X	195	31.716	41.413	41.642	0.00	0.00
ATOM	2985	CD2	LEU	X	195	31.539	41.785	38.119	0.00	0.00
ATOM	2986	HD21	LEU	X	195	32.408	42.390	37.859	0.00	0.00

ATOM	2987	HD22	LEU	X	195	31.486	41.027	37.338	0.00	0.00
ATOM	2988	HD23	LEU	X	195	30.638	42.388	38.005	0.00	0.00
ATOM	2989	C	LEU	X	195	34.177	38.281	38.448	0.00	0.00
ATOM	2990	O	LEU	X	195	34.105	37.312	39.195	0.00	0.00
ATOM	2991	N	PHE	X	196	35.268	38.570	37.826	0.00	0.00
ATOM	2992	H	PHE	X	196	35.207	39.468	37.368	0.00	0.00
ATOM	2993	CA	PHE	X	196	36.356	37.664	37.550	0.00	0.00
ATOM	2994	HA	PHE	X	196	36.334	36.788	38.199	0.00	0.00
ATOM	2995	CB	PHE	X	196	36.227	37.225	36.068	0.00	0.00
ATOM	2996	HB2	PHE	X	196	35.233	36.784	35.995	0.00	0.00
ATOM	2997	HB3	PHE	X	196	36.105	38.112	35.445	0.00	0.00
ATOM	2998	CG	PHE	X	196	37.269	36.355	35.387	0.00	0.00
ATOM	2999	CD1	PHE	X	196	37.484	36.601	33.957	0.00	0.00
ATOM	3000	HD1	PHE	X	196	36.892	37.364	33.474	0.00	0.00
ATOM	3001	CE1	PHE	X	196	38.520	35.922	33.280	0.00	0.00
ATOM	3002	HE1	PHE	X	196	38.587	36.046	32.209	0.00	0.00
ATOM	3003	CZ	PHE	X	196	39.324	35.026	34.027	0.00	0.00
ATOM	3004	HZ	PHE	X	196	40.124	34.509	33.518	0.00	0.00
ATOM	3005	CE2	PHE	X	196	39.176	34.941	35.376	0.00	0.00
ATOM	3006	HE2	PHE	X	196	39.765	34.274	35.988	0.00	0.00
ATOM	3007	CD2	PHE	X	196	38.145	35.560	36.097	0.00	0.00
ATOM	3008	HD2	PHE	X	196	38.037	35.476	37.168	0.00	0.00
ATOM	3009	C	PHE	X	196	37.727	38.403	37.905	0.00	0.00
ATOM	3010	O	PHE	X	196	37.884	39.524	37.475	0.00	0.00
ATOM	3011	N	GLY	X	197	38.529	37.690	38.705	0.00	0.00
ATOM	3012	H	GLY	X	197	38.220	36.815	39.103	0.00	0.00
ATOM	3013	CA	GLY	X	197	39.778	38.280	39.240	0.00	0.00
ATOM	3014	HA2	GLY	X	197	40.139	38.830	38.371	0.00	0.00
ATOM	3015	HA3	GLY	X	197	39.594	38.908	40.111	0.00	0.00
ATOM	3016	C	GLY	X	197	40.903	37.386	39.737	0.00	0.00
ATOM	3017	O	GLY	X	197	40.785	36.179	39.818	0.00	0.00
ATOM	3018	N	GLU	X	198	42.021	38.007	40.107	0.00	0.00
ATOM	3019	H	GLU	X	198	42.029	39.005	39.946	0.00	0.00
ATOM	3020	CA	GLU	X	198	43.199	37.396	40.716	0.00	0.00
ATOM	3021	HA	GLU	X	198	42.968	36.422	41.148	0.00	0.00
ATOM	3022	CB	GLU	X	198	44.319	37.177	39.717	0.00	0.00
ATOM	3023	HB2	GLU	X	198	45.134	36.783	40.324	0.00	0.00
ATOM	3024	HB3	GLU	X	198	43.993	36.504	38.925	0.00	0.00
ATOM	3025	CG	GLU	X	198	44.692	38.390	38.845	0.00	0.00
ATOM	3026	HG2	GLU	X	198	44.994	38.107	37.837	0.00	0.00
ATOM	3027	HG3	GLU	X	198	43.874	39.090	38.678	0.00	0.00
ATOM	3028	CD	GLU	X	198	45.831	39.211	39.383	0.00	0.00
ATOM	3029	OE1	GLU	X	198	45.998	40.269	38.798	0.00	0.00
ATOM	3030	OE2	GLU	X	198	46.504	38.897	40.380	0.00	0.00
ATOM	3031	C	GLU	X	198	43.652	38.284	41.852	0.00	0.00
ATOM	3032	O	GLU	X	198	43.466	39.488	41.783	0.00	0.00
ATOM	3033	N	XA1	X	199	44.203	37.838	42.988	0.00	0.00
ATOM	3034	CA	XA1	X	199	45.004	38.690	43.925	0.00	0.00
ATOM	3035	C	XA1	X	199	44.189	39.822	44.536	0.00	0.00
ATOM	3036	O	XA1	X	199	43.145	39.596	45.121	0.00	0.00
ATOM	3037	CB	XA1	X	199	46.423	39.089	43.404	0.00	0.00
ATOM	3038	OG	XA1	X	199	47.114	39.497	44.649	0.00	0.00
ATOM	3039	P1	XA1	X	199	48.065	40.793	44.591	0.00	0.00
ATOM	3040	O1	XA1	X	199	47.402	42.031	44.042	0.00	0.00
ATOM	3041	O2	XA1	X	199	49.336	40.302	43.938	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.098	40.977	46.347	0.00	0.00
ATOM	3043	H	XA1	X	199	44.345	36.839	43.019	0.00	0.00
ATOM	3044	HA	XA1	X	199	45.236	38.039	44.767	0.00	0.00
ATOM	3045	HB2	XA1	X	199	46.968	38.332	42.835	0.00	0.00
ATOM	3046	HB3	XA1	X	199	46.252	39.837	42.626	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.763	40.255	46.827	0.00	0.00
ATOM	3048	H12	XA1	X	199	48.365	42.026	46.494	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.127	40.715	46.771	0.00	0.00
ATOM	3050	N	ALA	X	200	44.584	41.052	44.533	0.00	0.00
ATOM	3051	H	ALA	X	200	45.445	41.357	44.101	0.00	0.00
ATOM	3052	CA	ALA	X	200	43.818	42.226	44.956	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.488	42.098	45.987	0.00	0.00

ATOM	3054	CB	ALA	X	200	44.595	43.556	44.847	0.00	0.00
ATOM	3055	HB1	ALA	X	200	45.059	43.608	43.862	0.00	0.00
ATOM	3056	HB2	ALA	X	200	45.329	43.613	45.651	0.00	0.00
ATOM	3057	HB3	ALA	X	200	44.002	44.467	44.925	0.00	0.00
ATOM	3058	C	ALA	X	200	42.541	42.357	44.145	0.00	0.00
ATOM	3059	O	ALA	X	200	41.702	43.082	44.635	0.00	0.00
ATOM	3060	N	GLY	X	201	42.436	41.813	42.944	0.00	0.00
ATOM	3061	H	GLY	X	201	43.270	41.355	42.604	0.00	0.00
ATOM	3062	CA	GLY	X	201	41.180	41.741	42.125	0.00	0.00
ATOM	3063	HA2	GLY	X	201	40.692	42.715	42.111	0.00	0.00
ATOM	3064	HA3	GLY	X	201	41.491	41.404	41.137	0.00	0.00
ATOM	3065	C	GLY	X	201	40.213	40.642	42.669	0.00	0.00
ATOM	3066	O	GLY	X	201	39.055	40.978	42.882	0.00	0.00
ATOM	3067	N	ALA	X	202	40.681	39.393	42.986	0.00	0.00
ATOM	3068	H	ALA	X	202	41.661	39.196	42.844	0.00	0.00
ATOM	3069	CA	ALA	X	202	39.944	38.470	43.737	0.00	0.00
ATOM	3070	HA	ALA	X	202	39.057	38.201	43.163	0.00	0.00
ATOM	3071	CB	ALA	X	202	40.834	37.169	44.020	0.00	0.00
ATOM	3072	HB1	ALA	X	202	41.021	36.781	43.019	0.00	0.00
ATOM	3073	HB2	ALA	X	202	40.284	36.443	44.618	0.00	0.00
ATOM	3074	HB3	ALA	X	202	41.798	37.483	44.419	0.00	0.00
ATOM	3075	C	ALA	X	202	39.509	38.997	45.061	0.00	0.00
ATOM	3076	O	ALA	X	202	38.383	38.867	45.537	0.00	0.00
ATOM	3077	N	ALA	X	203	40.286	39.917	45.697	0.00	0.00
ATOM	3078	H	ALA	X	203	41.187	40.091	45.276	0.00	0.00
ATOM	3079	CA	ALA	X	203	39.858	40.761	46.873	0.00	0.00
ATOM	3080	HA	ALA	X	203	39.325	40.182	47.627	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.123	41.332	47.582	0.00	0.00
ATOM	3082	HB1	ALA	X	203	41.712	41.938	46.894	0.00	0.00
ATOM	3083	HB2	ALA	X	203	41.707	40.639	48.188	0.00	0.00
ATOM	3084	HB3	ALA	X	203	40.844	42.135	48.265	0.00	0.00
ATOM	3085	C	ALA	X	203	38.811	41.899	46.436	0.00	0.00
ATOM	3086	O	ALA	X	203	37.781	42.023	47.127	0.00	0.00
ATOM	3087	N	SER	X	204	38.988	42.669	45.423	0.00	0.00
ATOM	3088	H	SER	X	204	39.897	42.677	44.984	0.00	0.00
ATOM	3089	CA	SER	X	204	37.969	43.598	44.915	0.00	0.00
ATOM	3090	HA	SER	X	204	37.741	44.352	45.668	0.00	0.00
ATOM	3091	CB	SER	X	204	38.487	44.288	43.681	0.00	0.00
ATOM	3092	HB2	SER	X	204	38.897	43.561	42.981	0.00	0.00
ATOM	3093	HB3	SER	X	204	37.688	44.826	43.171	0.00	0.00
ATOM	3094	OG	SER	X	204	39.567	45.194	43.949	0.00	0.00
ATOM	3095	HG	SER	X	204	40.366	44.708	44.165	0.00	0.00
ATOM	3096	C	SER	X	204	36.569	42.903	44.601	0.00	0.00
ATOM	3097	O	SER	X	204	35.555	43.398	45.097	0.00	0.00
ATOM	3098	N	VAL	X	205	36.567	41.725	43.918	0.00	0.00
ATOM	3099	H	VAL	X	205	37.463	41.486	43.519	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.432	40.769	43.648	0.00	0.00
ATOM	3101	HA	VAL	X	205	34.653	41.358	43.164	0.00	0.00
ATOM	3102	CB	VAL	X	205	35.778	39.573	42.701	0.00	0.00
ATOM	3103	HB	VAL	X	205	36.637	38.988	43.028	0.00	0.00
ATOM	3104	CG1	VAL	X	205	34.548	38.583	42.450	0.00	0.00
ATOM	3105	HG11	VAL	X	205	33.679	39.180	42.174	0.00	0.00
ATOM	3106	HG12	VAL	X	205	34.791	37.778	41.757	0.00	0.00
ATOM	3107	HG13	VAL	X	205	34.307	38.080	43.386	0.00	0.00
ATOM	3108	CG2	VAL	X	205	36.117	40.067	41.266	0.00	0.00
ATOM	3109	HG21	VAL	X	205	36.781	40.930	41.308	0.00	0.00
ATOM	3110	HG22	VAL	X	205	35.237	40.235	40.645	0.00	0.00
ATOM	3111	HG23	VAL	X	205	36.722	39.304	40.777	0.00	0.00
ATOM	3112	C	VAL	X	205	34.750	40.338	44.899	0.00	0.00
ATOM	3113	O	VAL	X	205	33.543	40.125	44.921	0.00	0.00
ATOM	3114	N	GLY	X	206	35.543	40.200	45.931	0.00	0.00
ATOM	3115	H	GLY	X	206	36.531	40.304	45.752	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.224	39.773	47.251	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.620	38.865	47.238	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.108	39.546	47.846	0.00	0.00
ATOM	3119	C	GLY	X	206	34.557	40.945	47.976	0.00	0.00
ATOM	3120	O	GLY	X	206	33.538	40.735	48.661	0.00	0.00

ATOM	3121	N	MET	X	207	34.991	42.163	47.737	0.00	0.00
ATOM	3122	H	MET	X	207	35.771	42.294	47.109	0.00	0.00
ATOM	3123	CA	MET	X	207	34.440	43.353	48.404	0.00	0.00
ATOM	3124	HA	MET	X	207	34.130	43.005	49.389	0.00	0.00
ATOM	3125	CB	MET	X	207	35.482	44.531	48.454	0.00	0.00
ATOM	3126	HB2	MET	X	207	35.922	44.626	47.461	0.00	0.00
ATOM	3127	HB3	MET	X	207	34.945	45.470	48.592	0.00	0.00
ATOM	3128	CG	MET	X	207	36.489	44.248	49.563	0.00	0.00
ATOM	3129	HG2	MET	X	207	35.996	44.344	50.530	0.00	0.00
ATOM	3130	HG3	MET	X	207	36.720	43.190	49.441	0.00	0.00
ATOM	3131	SD	MET	X	207	37.970	45.260	49.369	0.00	0.00
ATOM	3132	CE	MET	X	207	39.016	44.485	50.665	0.00	0.00
ATOM	3133	HE1	MET	X	207	39.665	45.283	51.026	0.00	0.00
ATOM	3134	HE2	MET	X	207	38.454	44.027	51.479	0.00	0.00
ATOM	3135	HE3	MET	X	207	39.706	43.750	50.250	0.00	0.00
ATOM	3136	C	MET	X	207	33.061	43.819	47.832	0.00	0.00
ATOM	3137	O	MET	X	207	32.128	44.162	48.595	0.00	0.00
ATOM	3138	N	HIE	X	208	32.940	43.663	46.485	0.00	0.00
ATOM	3139	H	HIE	X	208	33.792	43.517	45.963	0.00	0.00
ATOM	3140	CA	HIE	X	208	31.652	43.702	45.671	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.103	44.609	45.925	0.00	0.00
ATOM	3142	CB	HIE	X	208	32.062	43.696	44.163	0.00	0.00
ATOM	3143	HB2	HIE	X	208	32.742	42.851	44.062	0.00	0.00
ATOM	3144	HB3	HIE	X	208	31.136	43.567	43.603	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.684	44.888	43.546	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.263	46.185	43.597	0.00	0.00
ATOM	3147	CE1	HIE	X	208	33.197	46.959	43.026	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.177	48.037	42.960	0.00	0.00
ATOM	3149	NE2	HIE	X	208	34.250	46.133	42.628	0.00	0.00
ATOM	3150	HE2	HIE	X	208	35.087	46.376	42.118	0.00	0.00
ATOM	3151	CD2	HIE	X	208	33.870	44.850	42.905	0.00	0.00
ATOM	3152	HD2	HIE	X	208	34.396	43.925	42.719	0.00	0.00
ATOM	3153	C	HIE	X	208	30.641	42.659	45.929	0.00	0.00
ATOM	3154	O	HIE	X	208	29.493	42.904	45.836	0.00	0.00
ATOM	3155	N	LEU	X	209	31.044	41.483	46.334	0.00	0.00
ATOM	3156	H	LEU	X	209	32.031	41.314	46.206	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.157	40.471	47.031	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.219	40.453	46.476	0.00	0.00
ATOM	3159	CB	LEU	X	209	30.840	39.082	46.945	0.00	0.00
ATOM	3160	HB2	LEU	X	209	31.233	38.879	45.948	0.00	0.00
ATOM	3161	HB3	LEU	X	209	31.709	39.009	47.598	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.019	37.895	47.345	0.00	0.00
ATOM	3163	HG	LEU	X	209	29.861	37.990	48.420	0.00	0.00
ATOM	3164	CD1	LEU	X	209	28.652	37.795	46.572	0.00	0.00
ATOM	3165	HD11	LEU	X	209	28.824	37.753	45.497	0.00	0.00
ATOM	3166	HD12	LEU	X	209	28.042	38.638	46.897	0.00	0.00
ATOM	3167	HD13	LEU	X	209	28.269	36.811	46.842	0.00	0.00
ATOM	3168	CD2	LEU	X	209	30.756	36.583	47.092	0.00	0.00
ATOM	3169	HD21	LEU	X	209	31.822	36.674	47.299	0.00	0.00
ATOM	3170	HD22	LEU	X	209	30.367	35.781	47.719	0.00	0.00
ATOM	3171	HD23	LEU	X	209	30.788	36.371	46.024	0.00	0.00
ATOM	3172	C	LEU	X	209	29.898	40.885	48.553	0.00	0.00
ATOM	3173	O	LEU	X	209	28.799	40.539	49.022	0.00	0.00
ATOM	3174	N	LEU	X	210	30.821	41.498	49.236	0.00	0.00
ATOM	3175	H	LEU	X	210	31.773	41.618	48.919	0.00	0.00
ATOM	3176	CA	LEU	X	210	30.644	41.878	50.679	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.208	41.010	51.174	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.044	42.091	51.350	0.00	0.00
ATOM	3179	HB2	LEU	X	210	32.645	41.185	51.265	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.557	42.900	50.831	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.004	42.497	52.844	0.00	0.00
ATOM	3182	HG	LEU	X	210	31.456	43.430	52.978	0.00	0.00
ATOM	3183	CD1	LEU	X	210	31.347	41.357	53.628	0.00	0.00
ATOM	3184	HD11	LEU	X	210	30.287	41.360	53.377	0.00	0.00
ATOM	3185	HD12	LEU	X	210	31.446	41.487	54.706	0.00	0.00
ATOM	3186	HD13	LEU	X	210	31.831	40.451	53.263	0.00	0.00
ATOM	3187	CD2	LEU	X	210	33.404	42.731	53.389	0.00	0.00

ATOM	3188	HD21	LEU	X	210	33.329	43.164	54.386	0.00	0.00
ATOM	3189	HD22	LEU	X	210	34.029	41.838	53.374	0.00	0.00
ATOM	3190	HD23	LEU	X	210	33.853	43.490	52.747	0.00	0.00
ATOM	3191	C	LEU	X	210	29.714	43.065	50.866	0.00	0.00
ATOM	3192	O	LEU	X	210	28.886	43.150	51.751	0.00	0.00
ATOM	3193	N	SER	X	211	29.893	44.090	50.063	0.00	0.00
ATOM	3194	H	SER	X	211	30.495	43.929	49.268	0.00	0.00
ATOM	3195	CA	SER	X	211	29.126	45.359	50.177	0.00	0.00
ATOM	3196	HA	SER	X	211	28.943	45.520	51.240	0.00	0.00
ATOM	3197	CB	SER	X	211	29.996	46.586	49.709	0.00	0.00
ATOM	3198	HB2	SER	X	211	29.426	47.465	50.009	0.00	0.00
ATOM	3199	HB3	SER	X	211	30.854	46.606	50.382	0.00	0.00
ATOM	3200	OG	SER	X	211	30.490	46.660	48.368	0.00	0.00
ATOM	3201	HG	SER	X	211	31.245	46.082	48.232	0.00	0.00
ATOM	3202	C	SER	X	211	27.791	45.242	49.409	0.00	0.00
ATOM	3203	O	SER	X	211	27.916	45.259	48.184	0.00	0.00
ATOM	3204	N	PRO	X	212	26.608	45.226	50.035	0.00	0.00
ATOM	3205	CD	PRO	X	212	26.373	45.345	51.478	0.00	0.00
ATOM	3206	HD2	PRO	X	212	26.449	46.388	51.788	0.00	0.00
ATOM	3207	HD3	PRO	X	212	27.017	44.735	52.111	0.00	0.00
ATOM	3208	CG	PRO	X	212	24.968	44.895	51.746	0.00	0.00
ATOM	3209	HG2	PRO	X	212	24.477	45.542	52.473	0.00	0.00
ATOM	3210	HG3	PRO	X	212	24.948	43.859	52.083	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.257	45.165	50.441	0.00	0.00
ATOM	3212	HB2	PRO	X	212	23.803	46.155	50.405	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.484	44.410	50.298	0.00	0.00
ATOM	3214	CA	PRO	X	212	25.335	45.105	49.312	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.243	44.063	49.005	0.00	0.00
ATOM	3216	C	PRO	X	212	25.158	46.013	48.160	0.00	0.00
ATOM	3217	O	PRO	X	212	24.663	45.592	47.118	0.00	0.00
ATOM	3218	N	PRO	X	213	25.583	47.327	48.219	0.00	0.00
ATOM	3219	CD	PRO	X	213	25.781	48.110	49.442	0.00	0.00
ATOM	3220	HD2	PRO	X	213	26.844	48.112	49.683	0.00	0.00
ATOM	3221	HD3	PRO	X	213	25.018	47.929	50.200	0.00	0.00
ATOM	3222	CG	PRO	X	213	25.458	49.530	49.032	0.00	0.00
ATOM	3223	HG2	PRO	X	213	26.063	50.278	49.546	0.00	0.00
ATOM	3224	HG3	PRO	X	213	24.403	49.743	49.203	0.00	0.00
ATOM	3225	CB	PRO	X	213	25.693	49.583	47.566	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.695	49.968	47.376	0.00	0.00
ATOM	3227	HB3	PRO	X	213	24.990	50.286	47.118	0.00	0.00
ATOM	3228	CA	PRO	X	213	25.478	48.189	47.088	0.00	0.00
ATOM	3229	HA	PRO	X	213	24.405	48.048	46.960	0.00	0.00
ATOM	3230	C	PRO	X	213	26.157	47.883	45.750	0.00	0.00
ATOM	3231	O	PRO	X	213	26.036	48.681	44.870	0.00	0.00
ATOM	3232	N	SER	X	214	27.006	46.848	45.634	0.00	0.00
ATOM	3233	H	SER	X	214	27.205	46.321	46.472	0.00	0.00
ATOM	3234	CA	SER	X	214	27.500	46.288	44.378	0.00	0.00
ATOM	3235	HA	SER	X	214	27.612	47.099	43.658	0.00	0.00
ATOM	3236	CB	SER	X	214	28.895	45.724	44.675	0.00	0.00
ATOM	3237	HB2	SER	X	214	28.817	45.134	45.588	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.139	45.133	43.792	0.00	0.00
ATOM	3239	OG	SER	X	214	29.770	46.781	44.813	0.00	0.00
ATOM	3240	HG	SER	X	214	30.579	46.464	44.405	0.00	0.00
ATOM	3241	C	SER	X	214	26.557	45.274	43.717	0.00	0.00
ATOM	3242	O	SER	X	214	26.674	45.095	42.516	0.00	0.00
ATOM	3243	N	ARG	X	215	25.660	44.640	44.464	0.00	0.00
ATOM	3244	H	ARG	X	215	25.772	44.836	45.449	0.00	0.00
ATOM	3245	CA	ARG	X	215	25.096	43.304	44.204	0.00	0.00
ATOM	3246	HA	ARG	X	215	25.911	42.781	43.704	0.00	0.00
ATOM	3247	CB	ARG	X	215	24.875	42.545	45.494	0.00	0.00
ATOM	3248	HB2	ARG	X	215	24.187	43.074	46.153	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.437	41.572	45.273	0.00	0.00
ATOM	3250	CG	ARG	X	215	26.184	42.425	46.230	0.00	0.00
ATOM	3251	HG2	ARG	X	215	26.941	42.154	45.494	0.00	0.00
ATOM	3252	HG3	ARG	X	215	26.334	43.337	46.808	0.00	0.00
ATOM	3253	CD	ARG	X	215	26.078	41.300	47.284	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.008	40.317	46.818	0.00	0.00

ATOM	3255	HD3	ARG	X	215	27.038	41.257	47.800	0.00	0.00
ATOM	3256	NE	ARG	X	215	24.936	41.450	48.235	0.00	0.00
ATOM	3257	HE	ARG	X	215	24.163	41.985	47.866	0.00	0.00
ATOM	3258	CZ	ARG	X	215	24.943	41.244	49.509	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.016	40.908	50.200	0.00	0.00
ATOM	3260	HH11	ARG	X	215	26.902	40.710	49.759	0.00	0.00
ATOM	3261	HH12	ARG	X	215	25.877	40.641	51.164	0.00	0.00
ATOM	3262	NH2	ARG	X	215	23.802	41.528	50.185	0.00	0.00
ATOM	3263	HH21	ARG	X	215	22.997	41.856	49.672	0.00	0.00
ATOM	3264	HH22	ARG	X	215	23.611	41.340	51.159	0.00	0.00
ATOM	3265	C	ARG	X	215	23.789	43.229	43.356	0.00	0.00
ATOM	3266	O	ARG	X	215	23.428	42.118	42.997	0.00	0.00
ATOM	3267	N	GLY	X	216	23.292	44.422	42.900	0.00	0.00
ATOM	3268	H	GLY	X	216	23.541	45.304	43.324	0.00	0.00
ATOM	3269	CA	GLY	X	216	22.361	44.462	41.797	0.00	0.00
ATOM	3270	HA2	GLY	X	216	21.570	43.741	42.004	0.00	0.00
ATOM	3271	HA3	GLY	X	216	21.845	45.408	41.966	0.00	0.00
ATOM	3272	C	GLY	X	216	23.014	44.347	40.401	0.00	0.00
ATOM	3273	O	GLY	X	216	22.377	43.962	39.429	0.00	0.00
ATOM	3274	N	LEU	X	217	24.218	44.857	40.263	0.00	0.00
ATOM	3275	H	LEU	X	217	24.555	45.376	41.061	0.00	0.00
ATOM	3276	CA	LEU	X	217	24.908	45.013	38.975	0.00	0.00
ATOM	3277	HA	LEU	X	217	24.275	45.470	38.215	0.00	0.00
ATOM	3278	CB	LEU	X	217	26.188	45.912	39.223	0.00	0.00
ATOM	3279	HB2	LEU	X	217	26.921	45.364	39.815	0.00	0.00
ATOM	3280	HB3	LEU	X	217	26.631	46.027	38.233	0.00	0.00
ATOM	3281	CG	LEU	X	217	25.766	47.278	39.782	0.00	0.00
ATOM	3282	HG	LEU	X	217	25.421	47.025	40.785	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.968	48.200	39.961	0.00	0.00
ATOM	3284	HD11	LEU	X	217	27.721	47.567	40.431	0.00	0.00
ATOM	3285	HD12	LEU	X	217	26.683	49.055	40.574	0.00	0.00
ATOM	3286	HD13	LEU	X	217	27.390	48.544	39.017	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.616	47.936	39.055	0.00	0.00
ATOM	3288	HD21	LEU	X	217	24.960	47.891	38.022	0.00	0.00
ATOM	3289	HD22	LEU	X	217	23.675	47.392	39.126	0.00	0.00
ATOM	3290	HD23	LEU	X	217	24.460	48.971	39.360	0.00	0.00
ATOM	3291	C	LEU	X	217	25.399	43.635	38.405	0.00	0.00
ATOM	3292	O	LEU	X	217	25.609	43.543	37.190	0.00	0.00
ATOM	3293	N	PHE	X	218	25.584	42.653	39.285	0.00	0.00
ATOM	3294	H	PHE	X	218	25.515	42.958	40.245	0.00	0.00
ATOM	3295	CA	PHE	X	218	26.142	41.299	38.835	0.00	0.00
ATOM	3296	HA	PHE	X	218	25.937	41.282	37.764	0.00	0.00
ATOM	3297	CB	PHE	X	218	27.655	41.153	39.145	0.00	0.00
ATOM	3298	HB2	PHE	X	218	28.182	40.318	38.685	0.00	0.00
ATOM	3299	HB3	PHE	X	218	28.034	42.131	38.845	0.00	0.00
ATOM	3300	CG	PHE	X	218	27.925	41.047	40.550	0.00	0.00
ATOM	3301	CD1	PHE	X	218	27.683	42.104	41.472	0.00	0.00
ATOM	3302	HD1	PHE	X	218	27.297	42.998	41.005	0.00	0.00
ATOM	3303	CE1	PHE	X	218	28.112	41.995	42.741	0.00	0.00
ATOM	3304	HE1	PHE	X	218	28.103	42.919	43.300	0.00	0.00
ATOM	3305	CZ	PHE	X	218	28.762	40.840	43.217	0.00	0.00
ATOM	3306	HZ	PHE	X	218	29.015	40.789	44.265	0.00	0.00
ATOM	3307	CE2	PHE	X	218	28.907	39.716	42.443	0.00	0.00
ATOM	3308	HE2	PHE	X	218	29.378	38.802	42.773	0.00	0.00
ATOM	3309	CD2	PHE	X	218	28.600	39.875	41.033	0.00	0.00
ATOM	3310	HD2	PHE	X	218	28.699	39.030	40.368	0.00	0.00
ATOM	3311	C	PHE	X	218	25.399	40.157	39.467	0.00	0.00
ATOM	3312	O	PHE	X	218	24.459	40.330	40.281	0.00	0.00
ATOM	3313	N	HIE	X	219	25.693	38.955	38.987	0.00	0.00
ATOM	3314	H	HIE	X	219	26.420	39.061	38.294	0.00	0.00
ATOM	3315	CA	HIE	X	219	25.078	37.665	39.269	0.00	0.00
ATOM	3316	HA	HIE	X	219	24.345	37.886	40.044	0.00	0.00
ATOM	3317	CB	HIE	X	219	24.419	37.201	37.913	0.00	0.00
ATOM	3318	HB2	HIE	X	219	25.165	36.967	37.154	0.00	0.00
ATOM	3319	HB3	HIE	X	219	23.724	36.388	38.124	0.00	0.00
ATOM	3320	CG	HIE	X	219	23.525	38.339	37.438	0.00	0.00
ATOM	3321	ND1	HIE	X	219	23.796	39.126	36.343	0.00	0.00

ATOM	3322	CE1	HIE	X	219	22.936	40.114	36.416	0.00	0.00
ATOM	3323	HE1	HIE	X	219	22.930	40.951	35.733	0.00	0.00
ATOM	3324	NE2	HIE	X	219	22.237	40.029	37.514	0.00	0.00
ATOM	3325	HE2	HIE	X	219	21.756	40.831	37.896	0.00	0.00
ATOM	3326	CD2	HIE	X	219	22.561	38.903	38.171	0.00	0.00
ATOM	3327	HD2	HIE	X	219	22.327	38.627	39.189	0.00	0.00
ATOM	3328	C	HIE	X	219	25.990	36.487	39.838	0.00	0.00
ATOM	3329	O	HIE	X	219	25.551	35.659	40.595	0.00	0.00
ATOM	3330	N	ARG	X	220	27.305	36.507	39.511	0.00	0.00
ATOM	3331	H	ARG	X	220	27.522	37.172	38.783	0.00	0.00
ATOM	3332	CA	ARG	X	220	28.257	35.512	40.043	0.00	0.00
ATOM	3333	HA	ARG	X	220	27.886	35.151	41.002	0.00	0.00
ATOM	3334	CB	ARG	X	220	28.352	34.305	39.072	0.00	0.00
ATOM	3335	HB2	ARG	X	220	28.844	34.702	38.185	0.00	0.00
ATOM	3336	HB3	ARG	X	220	29.093	33.675	39.563	0.00	0.00
ATOM	3337	CG	ARG	X	220	27.021	33.640	38.653	0.00	0.00
ATOM	3338	HG2	ARG	X	220	26.545	33.341	39.587	0.00	0.00
ATOM	3339	HG3	ARG	X	220	26.432	34.370	38.098	0.00	0.00
ATOM	3340	CD	ARG	X	220	27.252	32.333	37.838	0.00	0.00
ATOM	3341	HD2	ARG	X	220	27.464	32.650	36.817	0.00	0.00
ATOM	3342	HD3	ARG	X	220	28.090	31.742	38.208	0.00	0.00
ATOM	3343	NE	ARG	X	220	26.118	31.382	37.852	0.00	0.00
ATOM	3344	HE	ARG	X	220	25.922	30.876	38.704	0.00	0.00
ATOM	3345	CZ	ARG	X	220	25.123	31.302	37.004	0.00	0.00
ATOM	3346	NH1	ARG	X	220	25.137	31.923	35.816	0.00	0.00
ATOM	3347	HH11	ARG	X	220	25.945	32.484	35.585	0.00	0.00
ATOM	3348	HH12	ARG	X	220	24.416	31.861	35.111	0.00	0.00
ATOM	3349	NH2	ARG	X	220	24.139	30.527	37.388	0.00	0.00
ATOM	3350	HH21	ARG	X	220	23.987	30.285	38.357	0.00	0.00
ATOM	3351	HH22	ARG	X	220	23.446	30.247	36.709	0.00	0.00
ATOM	3352	C	ARG	X	220	29.679	36.032	40.316	0.00	0.00
ATOM	3353	O	ARG	X	220	29.983	37.190	39.973	0.00	0.00
ATOM	3354	N	ALA	X	221	30.554	35.186	40.829	0.00	0.00
ATOM	3355	H	ALA	X	221	30.180	34.310	41.166	0.00	0.00
ATOM	3356	CA	ALA	X	221	31.879	35.630	41.271	0.00	0.00
ATOM	3357	HA	ALA	X	221	32.156	36.511	40.691	0.00	0.00
ATOM	3358	CB	ALA	X	221	31.785	36.003	42.785	0.00	0.00
ATOM	3359	HB1	ALA	X	221	31.454	35.211	43.456	0.00	0.00
ATOM	3360	HB2	ALA	X	221	31.053	36.773	43.027	0.00	0.00
ATOM	3361	HB3	ALA	X	221	32.760	36.397	43.074	0.00	0.00
ATOM	3362	C	ALA	X	221	33.020	34.566	41.062	0.00	0.00
ATOM	3363	O	ALA	X	221	32.781	33.355	41.216	0.00	0.00
ATOM	3364	N	VAL	X	222	34.270	34.905	40.655	0.00	0.00
ATOM	3365	H	VAL	X	222	34.428	35.891	40.498	0.00	0.00
ATOM	3366	CA	VAL	X	222	35.397	34.024	40.605	0.00	0.00
ATOM	3367	HA	VAL	X	222	35.199	32.993	40.899	0.00	0.00
ATOM	3368	CB	VAL	X	222	35.783	33.880	39.126	0.00	0.00
ATOM	3369	HB	VAL	X	222	35.910	34.877	38.705	0.00	0.00
ATOM	3370	CG1	VAL	X	222	37.148	33.176	39.062	0.00	0.00
ATOM	3371	HG11	VAL	X	222	37.980	33.726	39.500	0.00	0.00
ATOM	3372	HG12	VAL	X	222	37.146	32.134	39.383	0.00	0.00
ATOM	3373	HG13	VAL	X	222	37.381	33.225	37.999	0.00	0.00
ATOM	3374	CG2	VAL	X	222	34.769	33.028	38.354	0.00	0.00
ATOM	3375	HG21	VAL	X	222	35.260	32.634	37.465	0.00	0.00
ATOM	3376	HG22	VAL	X	222	33.893	33.578	38.011	0.00	0.00
ATOM	3377	HG23	VAL	X	222	34.420	32.246	39.028	0.00	0.00
ATOM	3378	C	VAL	X	222	36.595	34.586	41.315	0.00	0.00
ATOM	3379	O	VAL	X	222	37.043	35.707	40.984	0.00	0.00
ATOM	3380	N	LEU	X	223	37.114	33.949	42.361	0.00	0.00
ATOM	3381	H	LEU	X	223	36.724	33.049	42.602	0.00	0.00
ATOM	3382	CA	LEU	X	223	38.355	34.423	43.079	0.00	0.00
ATOM	3383	HA	LEU	X	223	38.622	35.447	42.818	0.00	0.00
ATOM	3384	CB	LEU	X	223	38.073	34.474	44.611	0.00	0.00
ATOM	3385	HB2	LEU	X	223	37.639	33.502	44.841	0.00	0.00
ATOM	3386	HB3	LEU	X	223	38.981	34.507	45.213	0.00	0.00
ATOM	3387	CG	LEU	X	223	37.138	35.502	45.204	0.00	0.00
ATOM	3388	HG	LEU	X	223	37.558	36.504	45.113	0.00	0.00

ATOM	3389	CD1	LEU	X	223	35.693	35.493	44.635	0.00	0.00
ATOM	3390	HD11	LEU	X	223	35.312	34.482	44.782	0.00	0.00
ATOM	3391	HD12	LEU	X	223	35.450	35.885	43.647	0.00	0.00
ATOM	3392	HD13	LEU	X	223	35.159	36.218	45.249	0.00	0.00
ATOM	3393	CD2	LEU	X	223	36.988	35.275	46.789	0.00	0.00
ATOM	3394	HD21	LEU	X	223	37.994	35.095	47.167	0.00	0.00
ATOM	3395	HD22	LEU	X	223	36.590	36.142	47.317	0.00	0.00
ATOM	3396	HD23	LEU	X	223	36.266	34.508	47.069	0.00	0.00
ATOM	3397	C	LEU	X	223	39.425	33.373	42.728	0.00	0.00
ATOM	3398	O	LEU	X	223	39.191	32.171	43.040	0.00	0.00
ATOM	3399	N	GLN	X	224	40.607	33.786	42.241	0.00	0.00
ATOM	3400	H	GLN	X	224	40.636	34.763	41.988	0.00	0.00
ATOM	3401	CA	GLN	X	224	41.780	32.988	42.148	0.00	0.00
ATOM	3402	HA	GLN	X	224	41.675	31.992	42.578	0.00	0.00
ATOM	3403	CB	GLN	X	224	42.167	32.980	40.745	0.00	0.00
ATOM	3404	HB2	GLN	X	224	42.361	33.992	40.389	0.00	0.00
ATOM	3405	HB3	GLN	X	224	42.991	32.276	40.631	0.00	0.00
ATOM	3406	CG	GLN	X	224	41.095	32.364	39.867	0.00	0.00
ATOM	3407	HG2	GLN	X	224	40.668	31.415	40.192	0.00	0.00
ATOM	3408	HG3	GLN	X	224	40.310	33.110	39.991	0.00	0.00
ATOM	3409	CD	GLN	X	224	41.544	32.347	38.438	0.00	0.00
ATOM	3410	OE1	GLN	X	224	40.683	32.561	37.611	0.00	0.00
ATOM	3411	NE2	GLN	X	224	42.775	32.228	38.055	0.00	0.00
ATOM	3412	HE21	GLN	X	224	43.039	31.998	37.107	0.00	0.00
ATOM	3413	HE22	GLN	X	224	43.561	32.040	38.662	0.00	0.00
ATOM	3414	C	GLN	X	224	42.842	33.724	43.059	0.00	0.00
ATOM	3415	O	GLN	X	224	42.932	34.951	42.982	0.00	0.00
ATOM	3416	N	SER	X	225	43.662	33.020	43.861	0.00	0.00
ATOM	3417	H	SER	X	225	43.505	32.054	44.109	0.00	0.00
ATOM	3418	CA	SER	X	225	44.952	33.566	44.404	0.00	0.00
ATOM	3419	HA	SER	X	225	45.372	32.796	45.051	0.00	0.00
ATOM	3420	CB	SER	X	225	45.994	33.674	43.292	0.00	0.00
ATOM	3421	HB2	SER	X	225	45.722	32.900	42.574	0.00	0.00
ATOM	3422	HB3	SER	X	225	45.818	34.581	42.714	0.00	0.00
ATOM	3423	OG	SER	X	225	47.370	33.517	43.740	0.00	0.00
ATOM	3424	HG	SER	X	225	47.444	32.768	44.336	0.00	0.00
ATOM	3425	C	SER	X	225	44.885	34.859	45.308	0.00	0.00
ATOM	3426	O	SER	X	225	45.954	35.413	45.625	0.00	0.00
ATOM	3427	N	GLY	X	226	43.677	35.306	45.711	0.00	0.00
ATOM	3428	H	GLY	X	226	42.896	34.949	45.180	0.00	0.00
ATOM	3429	CA	GLY	X	226	43.404	36.430	46.608	0.00	0.00
ATOM	3430	HA2	GLY	X	226	44.227	36.546	47.313	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.431	37.334	46.000	0.00	0.00
ATOM	3432	C	GLY	X	226	42.021	36.404	47.292	0.00	0.00
ATOM	3433	O	GLY	X	226	41.148	35.705	46.801	0.00	0.00
ATOM	3434	N	ALA	X	227	41.888	37.181	48.412	0.00	0.00
ATOM	3435	H	ALA	X	227	42.702	37.667	48.760	0.00	0.00
ATOM	3436	CA	ALA	X	227	40.638	37.259	49.139	0.00	0.00
ATOM	3437	HA	ALA	X	227	39.902	37.204	48.338	0.00	0.00
ATOM	3438	CB	ALA	X	227	40.542	36.024	50.064	0.00	0.00
ATOM	3439	HB1	ALA	X	227	41.311	36.104	50.832	0.00	0.00
ATOM	3440	HB2	ALA	X	227	40.742	35.118	49.491	0.00	0.00
ATOM	3441	HB3	ALA	X	227	39.605	36.019	50.620	0.00	0.00
ATOM	3442	C	ALA	X	227	40.585	38.630	49.916	0.00	0.00
ATOM	3443	O	ALA	X	227	41.622	39.206	50.267	0.00	0.00
ATOM	3444	N	PRO	X	228	39.390	39.171	50.263	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.082	38.609	49.859	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.062	37.599	50.268	0.00	0.00
ATOM	3447	HD3	PRO	X	228	37.976	38.623	48.774	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.028	39.418	50.557	0.00	0.00
ATOM	3449	HG2	PRO	X	228	36.848	39.197	51.610	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.163	39.300	49.904	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.686	40.783	50.578	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.245	41.438	51.330	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.567	41.210	49.583	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.165	40.413	50.974	0.00	0.00
ATOM	3455	HA	PRO	X	228	39.842	41.233	50.735	0.00	0.00

ATOM	3456	C	PRO	X	228	39.337	40.209	52.538	0.00	0.00
ATOM	3457	O	PRO	X	228	39.646	41.241	53.139	0.00	0.00
ATOM	3458	N	ASN	X	229	39.206	38.987	53.071	0.00	0.00
ATOM	3459	H	ASN	X	229	39.079	38.135	52.544	0.00	0.00
ATOM	3460	CA	ASN	X	229	39.493	38.823	54.506	0.00	0.00
ATOM	3461	HA	ASN	X	229	39.026	39.616	55.089	0.00	0.00
ATOM	3462	CB	ASN	X	229	38.746	37.605	55.074	0.00	0.00
ATOM	3463	HB2	ASN	X	229	38.863	37.520	56.154	0.00	0.00
ATOM	3464	HB3	ASN	X	229	37.704	37.680	54.763	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.173	36.174	54.636	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.817	35.947	53.638	0.00	0.00
ATOM	3467	ND2	ASN	X	229	38.951	35.203	55.510	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.381	34.312	55.304	0.00	0.00
ATOM	3469	HD22	ASN	X	229	38.877	35.368	56.504	0.00	0.00
ATOM	3470	C	ASN	X	229	41.030	38.667	54.824	0.00	0.00
ATOM	3471	O	ASN	X	229	41.359	38.357	55.997	0.00	0.00
ATOM	3472	N	GLY	X	230	41.936	38.767	53.793	0.00	0.00
ATOM	3473	H	GLY	X	230	41.598	39.134	52.915	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.339	38.686	54.084	0.00	0.00
ATOM	3475	HA2	GLY	X	230	43.446	37.956	54.886	0.00	0.00
ATOM	3476	HA3	GLY	X	230	43.821	38.434	53.139	0.00	0.00
ATOM	3477	C	GLY	X	230	43.986	39.956	54.645	0.00	0.00
ATOM	3478	O	GLY	X	230	43.575	41.031	54.250	0.00	0.00
ATOM	3479	N	PRO	X	231	44.854	39.893	55.686	0.00	0.00
ATOM	3480	CD	PRO	X	231	45.458	38.654	56.205	0.00	0.00
ATOM	3481	HD2	PRO	X	231	45.907	38.096	55.383	0.00	0.00
ATOM	3482	HD3	PRO	X	231	44.662	38.147	56.751	0.00	0.00
ATOM	3483	CG	PRO	X	231	46.597	39.147	57.124	0.00	0.00
ATOM	3484	HG2	PRO	X	231	47.463	39.416	56.519	0.00	0.00
ATOM	3485	HG3	PRO	X	231	46.804	38.457	57.942	0.00	0.00
ATOM	3486	CB	PRO	X	231	46.044	40.419	57.690	0.00	0.00
ATOM	3487	HB2	PRO	X	231	46.909	41.060	57.858	0.00	0.00
ATOM	3488	HB3	PRO	X	231	45.385	40.260	58.543	0.00	0.00
ATOM	3489	CA	PRO	X	231	45.229	40.980	56.544	0.00	0.00
ATOM	3490	HA	PRO	X	231	44.322	41.301	57.057	0.00	0.00
ATOM	3491	C	PRO	X	231	45.874	42.164	55.768	0.00	0.00
ATOM	3492	O	PRO	X	231	45.978	43.253	56.334	0.00	0.00
ATOM	3493	N	TRP	X	232	46.328	41.958	54.525	0.00	0.00
ATOM	3494	H	TRP	X	232	46.194	41.014	54.192	0.00	0.00
ATOM	3495	CA	TRP	X	232	47.047	42.903	53.722	0.00	0.00
ATOM	3496	HA	TRP	X	232	47.616	43.498	54.435	0.00	0.00
ATOM	3497	CB	TRP	X	232	47.940	42.093	52.674	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.225	42.790	51.886	0.00	0.00
ATOM	3499	HB3	TRP	X	232	48.849	41.827	53.214	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.185	40.896	52.057	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.079	39.630	52.545	0.00	0.00
ATOM	3502	HD1	TRP	X	232	47.578	39.262	53.429	0.00	0.00
ATOM	3503	NE1	TRP	X	232	46.222	38.880	51.774	0.00	0.00
ATOM	3504	HE1	TRP	X	232	45.925	37.935	51.972	0.00	0.00
ATOM	3505	CE2	TRP	X	232	45.817	39.578	50.634	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	44.876	39.261	49.631	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	44.326	38.336	49.536	0.00	0.00
ATOM	3508	CH2	TRP	X	232	44.681	40.293	48.607	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.054	40.049	47.763	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.319	41.540	48.758	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.169	42.250	47.958	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.167	41.754	49.834	0.00	0.00
ATOM	3513	HE3	TRP	X	232	46.646	42.711	49.978	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.370	40.801	50.825	0.00	0.00
ATOM	3515	C	TRP	X	232	46.073	43.837	52.903	0.00	0.00
ATOM	3516	O	TRP	X	232	46.472	44.841	52.360	0.00	0.00
ATOM	3517	N	ALA	X	233	44.781	43.410	52.752	0.00	0.00
ATOM	3518	H	ALA	X	233	44.534	42.514	53.147	0.00	0.00
ATOM	3519	CA	ALA	X	233	43.839	44.046	51.798	0.00	0.00
ATOM	3520	HA	ALA	X	233	44.423	44.304	50.915	0.00	0.00
ATOM	3521	CB	ALA	X	233	42.929	42.948	51.284	0.00	0.00
ATOM	3522	HB1	ALA	X	233	42.028	43.296	50.780	0.00	0.00

ATOM	3523	HB2	ALA	X	233	42.620	42.308	52.110	0.00	0.00
ATOM	3524	HB3	ALA	X	233	43.473	42.296	50.600	0.00	0.00
ATOM	3525	C	ALA	X	233	43.099	45.276	52.346	0.00	0.00
ATOM	3526	O	ALA	X	233	42.396	45.931	51.620	0.00	0.00
ATOM	3527	N	THR	X	234	43.255	45.599	53.616	0.00	0.00
ATOM	3528	H	THR	X	234	43.707	44.859	54.133	0.00	0.00
ATOM	3529	CA	THR	X	234	43.026	46.940	54.201	0.00	0.00
ATOM	3530	HA	THR	X	234	43.077	47.716	53.437	0.00	0.00
ATOM	3531	CB	THR	X	234	41.610	47.008	54.914	0.00	0.00
ATOM	3532	HB	THR	X	234	41.471	48.070	55.118	0.00	0.00
ATOM	3533	CG2	THR	X	234	40.508	46.528	54.100	0.00	0.00
ATOM	3534	HG21	THR	X	234	40.611	45.472	53.850	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.489	47.017	53.126	0.00	0.00
ATOM	3536	HG23	THR	X	234	39.557	46.603	54.629	0.00	0.00
ATOM	3537	OG1	THR	X	234	41.651	46.321	56.098	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.126	45.489	56.026	0.00	0.00
ATOM	3539	C	THR	X	234	44.106	47.451	55.131	0.00	0.00
ATOM	3540	O	THR	X	234	44.888	46.747	55.714	0.00	0.00
ATOM	3541	N	VAL	X	235	44.017	48.778	55.426	0.00	0.00
ATOM	3542	H	VAL	X	235	43.233	49.307	55.073	0.00	0.00
ATOM	3543	CA	VAL	X	235	44.830	49.526	56.414	0.00	0.00
ATOM	3544	HA	VAL	X	235	45.085	48.886	57.259	0.00	0.00
ATOM	3545	CB	VAL	X	235	46.124	50.019	55.720	0.00	0.00
ATOM	3546	HB	VAL	X	235	46.316	49.346	54.883	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.094	51.395	55.101	0.00	0.00
ATOM	3548	HG11	VAL	X	235	45.793	52.186	55.787	0.00	0.00
ATOM	3549	HG12	VAL	X	235	47.156	51.505	54.880	0.00	0.00
ATOM	3550	HG13	VAL	X	235	45.464	51.401	54.211	0.00	0.00
ATOM	3551	CG2	VAL	X	235	47.221	49.995	56.859	0.00	0.00
ATOM	3552	HG21	VAL	X	235	47.330	48.966	57.204	0.00	0.00
ATOM	3553	HG22	VAL	X	235	46.986	50.654	57.695	0.00	0.00
ATOM	3554	HG23	VAL	X	235	48.190	50.239	56.424	0.00	0.00
ATOM	3555	C	VAL	X	235	43.981	50.650	56.940	0.00	0.00
ATOM	3556	O	VAL	X	235	43.065	51.188	56.321	0.00	0.00
ATOM	3557	N	GLY	X	236	44.281	50.951	58.241	0.00	0.00
ATOM	3558	H	GLY	X	236	44.979	50.487	58.804	0.00	0.00
ATOM	3559	CA	GLY	X	236	43.546	51.983	59.047	0.00	0.00
ATOM	3560	HA2	GLY	X	236	42.541	51.577	59.167	0.00	0.00
ATOM	3561	HA3	GLY	X	236	44.017	52.118	60.021	0.00	0.00
ATOM	3562	C	GLY	X	236	43.544	53.365	58.447	0.00	0.00
ATOM	3563	O	GLY	X	236	44.544	53.850	57.938	0.00	0.00
ATOM	3564	N	MET	X	237	42.513	54.084	58.791	0.00	0.00
ATOM	3565	H	MET	X	237	41.668	53.668	59.154	0.00	0.00
ATOM	3566	CA	MET	X	237	42.412	55.544	58.533	0.00	0.00
ATOM	3567	HA	MET	X	237	42.193	55.772	57.490	0.00	0.00
ATOM	3568	CB	MET	X	237	41.106	56.039	59.146	0.00	0.00
ATOM	3569	HB2	MET	X	237	40.258	55.455	58.788	0.00	0.00
ATOM	3570	HB3	MET	X	237	41.179	55.887	60.223	0.00	0.00
ATOM	3571	CG	MET	X	237	40.671	57.513	58.920	0.00	0.00
ATOM	3572	HG2	MET	X	237	39.705	57.648	59.409	0.00	0.00
ATOM	3573	HG3	MET	X	237	41.365	58.179	59.434	0.00	0.00
ATOM	3574	SD	MET	X	237	40.623	58.028	57.242	0.00	0.00
ATOM	3575	CE	MET	X	237	38.956	57.715	56.791	0.00	0.00
ATOM	3576	HE1	MET	X	237	38.851	57.879	55.719	0.00	0.00
ATOM	3577	HE2	MET	X	237	38.684	56.715	57.129	0.00	0.00
ATOM	3578	HE3	MET	X	237	38.331	58.457	57.289	0.00	0.00
ATOM	3579	C	MET	X	237	43.609	56.435	58.928	0.00	0.00
ATOM	3580	O	MET	X	237	44.085	57.238	58.137	0.00	0.00
ATOM	3581	N	GLY	X	238	44.176	56.236	60.130	0.00	0.00
ATOM	3582	H	GLY	X	238	43.715	55.649	60.810	0.00	0.00
ATOM	3583	CA	GLY	X	238	45.379	56.902	60.614	0.00	0.00
ATOM	3584	HA2	GLY	X	238	45.209	57.935	60.311	0.00	0.00
ATOM	3585	HA3	GLY	X	238	45.435	56.825	61.700	0.00	0.00
ATOM	3586	C	GLY	X	238	46.725	56.447	59.918	0.00	0.00
ATOM	3587	O	GLY	X	238	47.563	57.341	59.876	0.00	0.00
ATOM	3588	N	GLU	X	239	46.812	55.299	59.407	0.00	0.00
ATOM	3589	H	GLU	X	239	46.014	54.695	59.545	0.00	0.00

ATOM	3590	CA	GLU	X	239	47.977	54.794	58.689	0.00	0.00
ATOM	3591	HA	GLU	X	239	48.948	54.921	59.167	0.00	0.00
ATOM	3592	CB	GLU	X	239	47.918	53.238	58.526	0.00	0.00
ATOM	3593	HB2	GLU	X	239	46.958	52.915	58.123	0.00	0.00
ATOM	3594	HB3	GLU	X	239	48.726	52.863	57.897	0.00	0.00
ATOM	3595	CG	GLU	X	239	48.179	52.513	59.820	0.00	0.00
ATOM	3596	HG2	GLU	X	239	47.416	52.891	60.501	0.00	0.00
ATOM	3597	HG3	GLU	X	239	47.931	51.458	59.699	0.00	0.00
ATOM	3598	CD	GLU	X	239	49.604	52.589	60.317	0.00	0.00
ATOM	3599	OE1	GLU	X	239	50.376	51.660	60.089	0.00	0.00
ATOM	3600	OE2	GLU	X	239	49.935	53.634	60.923	0.00	0.00
ATOM	3601	C	GLU	X	239	47.951	55.380	57.315	0.00	0.00
ATOM	3602	O	GLU	X	239	49.016	55.785	56.783	0.00	0.00
ATOM	3603	N	ALA	X	240	46.732	55.508	56.730	0.00	0.00
ATOM	3604	H	ALA	X	240	45.954	55.158	57.270	0.00	0.00
ATOM	3605	CA	ALA	X	240	46.475	56.331	55.545	0.00	0.00
ATOM	3606	HA	ALA	X	240	47.185	56.090	54.753	0.00	0.00
ATOM	3607	CB	ALA	X	240	44.994	56.289	55.101	0.00	0.00
ATOM	3608	HB1	ALA	X	240	44.390	56.750	55.883	0.00	0.00
ATOM	3609	HB2	ALA	X	240	44.668	55.249	55.098	0.00	0.00
ATOM	3610	HB3	ALA	X	240	44.797	56.815	54.167	0.00	0.00
ATOM	3611	C	ALA	X	240	46.937	57.806	55.827	0.00	0.00
ATOM	3612	O	ALA	X	240	47.709	58.412	55.098	0.00	0.00
ATOM	3613	N	ARG	X	241	46.422	58.438	56.888	0.00	0.00
ATOM	3614	H	ARG	X	241	45.662	57.971	57.363	0.00	0.00
ATOM	3615	CA	ARG	X	241	46.882	59.770	57.423	0.00	0.00
ATOM	3616	HA	ARG	X	241	46.507	60.484	56.689	0.00	0.00
ATOM	3617	CB	ARG	X	241	46.292	60.111	58.839	0.00	0.00
ATOM	3618	HB2	ARG	X	241	45.276	59.723	58.773	0.00	0.00
ATOM	3619	HB3	ARG	X	241	46.820	59.714	59.706	0.00	0.00
ATOM	3620	CG	ARG	X	241	46.194	61.669	58.975	0.00	0.00
ATOM	3621	HG2	ARG	X	241	47.128	62.229	58.922	0.00	0.00
ATOM	3622	HG3	ARG	X	241	45.630	62.096	58.146	0.00	0.00
ATOM	3623	CD	ARG	X	241	45.503	61.964	60.293	0.00	0.00
ATOM	3624	HD2	ARG	X	241	44.753	61.273	60.678	0.00	0.00
ATOM	3625	HD3	ARG	X	241	46.269	61.977	61.069	0.00	0.00
ATOM	3626	NE	ARG	X	241	44.950	63.239	60.286	0.00	0.00
ATOM	3627	HE	ARG	X	241	45.114	63.774	59.444	0.00	0.00
ATOM	3628	CZ	ARG	X	241	44.164	63.772	61.229	0.00	0.00
ATOM	3629	NH1	ARG	X	241	43.916	63.147	62.361	0.00	0.00
ATOM	3630	HH11	ARG	X	241	44.328	62.257	62.602	0.00	0.00
ATOM	3631	HH12	ARG	X	241	43.307	63.666	62.978	0.00	0.00
ATOM	3632	NH2	ARG	X	241	43.640	65.012	61.125	0.00	0.00
ATOM	3633	HH21	ARG	X	241	43.833	65.458	60.239	0.00	0.00
ATOM	3634	HH22	ARG	X	241	43.002	65.382	61.816	0.00	0.00
ATOM	3635	C	ARG	X	241	48.386	59.903	57.534	0.00	0.00
ATOM	3636	O	ARG	X	241	49.039	60.813	57.024	0.00	0.00
ATOM	3637	N	ARG	X	242	49.065	58.907	58.131	0.00	0.00
ATOM	3638	H	ARG	X	242	48.529	58.224	58.648	0.00	0.00
ATOM	3639	CA	ARG	X	242	50.486	58.781	58.229	0.00	0.00
ATOM	3640	HA	ARG	X	242	50.869	59.712	58.647	0.00	0.00
ATOM	3641	CB	ARG	X	242	50.844	57.528	59.002	0.00	0.00
ATOM	3642	HB2	ARG	X	242	50.257	57.435	59.916	0.00	0.00
ATOM	3643	HB3	ARG	X	242	50.655	56.616	58.436	0.00	0.00
ATOM	3644	CG	ARG	X	242	52.289	57.618	59.298	0.00	0.00
ATOM	3645	HG2	ARG	X	242	52.855	57.568	58.368	0.00	0.00
ATOM	3646	HG3	ARG	X	242	52.522	58.490	59.910	0.00	0.00
ATOM	3647	CD	ARG	X	242	52.905	56.419	60.113	0.00	0.00
ATOM	3648	HD2	ARG	X	242	53.992	56.493	60.109	0.00	0.00
ATOM	3649	HD3	ARG	X	242	52.654	56.597	61.158	0.00	0.00
ATOM	3650	NE	ARG	X	242	52.318	55.037	59.707	0.00	0.00
ATOM	3651	HE	ARG	X	242	51.662	54.553	60.302	0.00	0.00
ATOM	3652	CZ	ARG	X	242	52.747	54.306	58.670	0.00	0.00
ATOM	3653	NH1	ARG	X	242	53.450	54.871	57.701	0.00	0.00
ATOM	3654	HH11	ARG	X	242	53.635	55.855	57.838	0.00	0.00
ATOM	3655	HH12	ARG	X	242	53.731	54.369	56.871	0.00	0.00
ATOM	3656	NH2	ARG	X	242	52.477	53.052	58.554	0.00	0.00

ATOM	3657	HH21	ARG	X	242	51.810	52.614	59.173	0.00	0.00
ATOM	3658	HH22	ARG	X	242	53.103	52.430	58.063	0.00	0.00
ATOM	3659	C	ARG	X	242	51.124	58.727	56.836	0.00	0.00
ATOM	3660	O	ARG	X	242	51.994	59.603	56.609	0.00	0.00
ATOM	3661	N	ARG	X	243	50.843	57.808	55.939	0.00	0.00
ATOM	3662	H	ARG	X	243	50.215	57.075	56.235	0.00	0.00
ATOM	3663	CA	ARG	X	243	51.537	57.788	54.619	0.00	0.00
ATOM	3664	HA	ARG	X	243	52.603	57.794	54.849	0.00	0.00
ATOM	3665	CB	ARG	X	243	51.133	56.545	53.829	0.00	0.00
ATOM	3666	HB2	ARG	X	243	50.058	56.374	53.781	0.00	0.00
ATOM	3667	HB3	ARG	X	243	51.431	56.713	52.794	0.00	0.00
ATOM	3668	CG	ARG	X	243	51.797	55.303	54.479	0.00	0.00
ATOM	3669	HG2	ARG	X	243	52.880	55.421	54.432	0.00	0.00
ATOM	3670	HG3	ARG	X	243	51.285	55.182	55.434	0.00	0.00
ATOM	3671	CD	ARG	X	243	51.425	54.145	53.589	0.00	0.00
ATOM	3672	HD2	ARG	X	243	50.338	54.090	53.647	0.00	0.00
ATOM	3673	HD3	ARG	X	243	51.757	54.203	52.553	0.00	0.00
ATOM	3674	NE	ARG	X	243	52.077	52.976	54.216	0.00	0.00
ATOM	3675	HE	ARG	X	243	52.930	53.214	54.702	0.00	0.00
ATOM	3676	CZ	ARG	X	243	51.620	51.723	54.164	0.00	0.00
ATOM	3677	NH1	ARG	X	243	50.517	51.447	53.502	0.00	0.00
ATOM	3678	HH11	ARG	X	243	50.282	52.189	52.858	0.00	0.00
ATOM	3679	HH12	ARG	X	243	50.286	50.469	53.398	0.00	0.00
ATOM	3680	NH2	ARG	X	243	52.249	50.770	54.730	0.00	0.00
ATOM	3681	HH21	ARG	X	243	53.089	50.987	55.247	0.00	0.00
ATOM	3682	HH22	ARG	X	243	51.924	49.824	54.592	0.00	0.00
ATOM	3683	C	ARG	X	243	51.191	59.011	53.793	0.00	0.00
ATOM	3684	O	ARG	X	243	52.014	59.553	53.064	0.00	0.00
ATOM	3685	N	ALA	X	244	50.022	59.591	53.914	0.00	0.00
ATOM	3686	H	ALA	X	244	49.297	59.155	54.465	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.673	60.907	53.319	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.821	60.797	52.245	0.00	0.00
ATOM	3689	CB	ALA	X	244	48.254	61.083	53.452	0.00	0.00
ATOM	3690	HB1	ALA	X	244	47.632	60.193	53.358	0.00	0.00
ATOM	3691	HB2	ALA	X	244	47.992	61.960	52.860	0.00	0.00
ATOM	3692	HB3	ALA	X	244	48.057	61.264	54.509	0.00	0.00
ATOM	3693	C	ALA	X	244	50.522	62.071	53.958	0.00	0.00
ATOM	3694	O	ALA	X	244	50.888	62.995	53.232	0.00	0.00
ATOM	3695	N	THR	X	245	50.903	62.037	55.241	0.00	0.00
ATOM	3696	H	THR	X	245	50.561	61.297	55.836	0.00	0.00
ATOM	3697	CA	THR	X	245	51.819	63.048	55.829	0.00	0.00
ATOM	3698	HA	THR	X	245	51.540	64.038	55.469	0.00	0.00
ATOM	3699	CB	THR	X	245	51.559	63.021	57.380	0.00	0.00
ATOM	3700	HB	THR	X	245	51.849	62.037	57.749	0.00	0.00
ATOM	3701	CG2	THR	X	245	52.295	64.047	58.186	0.00	0.00
ATOM	3702	HG21	THR	X	245	52.018	65.059	57.891	0.00	0.00
ATOM	3703	HG22	THR	X	245	53.360	64.097	57.957	0.00	0.00
ATOM	3704	HG23	THR	X	245	52.171	63.815	59.244	0.00	0.00
ATOM	3705	OG1	THR	X	245	50.192	63.104	57.701	0.00	0.00
ATOM	3706	HG1	THR	X	245	49.837	62.418	57.131	0.00	0.00
ATOM	3707	C	THR	X	245	53.299	62.818	55.599	0.00	0.00
ATOM	3708	O	THR	X	245	53.982	63.808	55.261	0.00	0.00
ATOM	3709	N	GLN	X	246	53.801	61.585	55.508	0.00	0.00
ATOM	3710	H	GLN	X	246	53.128	60.867	55.735	0.00	0.00
ATOM	3711	CA	GLN	X	246	55.073	61.221	54.939	0.00	0.00
ATOM	3712	HA	GLN	X	246	55.877	61.715	55.483	0.00	0.00
ATOM	3713	CB	GLN	X	246	55.197	59.680	55.084	0.00	0.00
ATOM	3714	HB2	GLN	X	246	54.188	59.271	55.038	0.00	0.00
ATOM	3715	HB3	GLN	X	246	55.868	59.311	54.308	0.00	0.00
ATOM	3716	CG	GLN	X	246	55.554	59.291	56.503	0.00	0.00
ATOM	3717	HG2	GLN	X	246	56.538	59.688	56.751	0.00	0.00
ATOM	3718	HG3	GLN	X	246	54.868	59.581	57.299	0.00	0.00
ATOM	3719	CD	GLN	X	246	55.646	57.831	56.735	0.00	0.00
ATOM	3720	OE1	GLN	X	246	54.822	57.008	56.347	0.00	0.00
ATOM	3721	NE2	GLN	X	246	56.712	57.312	57.309	0.00	0.00
ATOM	3722	HE21	GLN	X	246	56.690	56.318	57.485	0.00	0.00
ATOM	3723	HE22	GLN	X	246	57.574	57.831	57.404	0.00	0.00

ATOM	3724	C	GLN	X	246	55.224	61.547	53.452	0.00	0.00
ATOM	3725	O	GLN	X	246	56.258	62.036	52.950	0.00	0.00
ATOM	3726	N	LEU	X	247	54.163	61.335	52.698	0.00	0.00
ATOM	3727	H	LEU	X	247	53.394	60.725	52.938	0.00	0.00
ATOM	3728	CA	LEU	X	247	54.168	61.743	51.320	0.00	0.00
ATOM	3729	HA	LEU	X	247	55.110	61.348	50.939	0.00	0.00
ATOM	3730	CB	LEU	X	247	53.004	61.036	50.633	0.00	0.00
ATOM	3731	HB2	LEU	X	247	53.125	59.953	50.629	0.00	0.00
ATOM	3732	HB3	LEU	X	247	52.075	61.334	51.121	0.00	0.00
ATOM	3733	CG	LEU	X	247	52.769	61.522	49.204	0.00	0.00
ATOM	3734	HG	LEU	X	247	52.600	62.599	49.230	0.00	0.00
ATOM	3735	CD1	LEU	X	247	53.908	61.265	48.201	0.00	0.00
ATOM	3736	HD11	LEU	X	247	54.041	60.210	47.959	0.00	0.00
ATOM	3737	HD12	LEU	X	247	54.904	61.510	48.568	0.00	0.00
ATOM	3738	HD13	LEU	X	247	53.725	61.811	47.276	0.00	0.00
ATOM	3739	CD2	LEU	X	247	51.509	60.795	48.637	0.00	0.00
ATOM	3740	HD21	LEU	X	247	51.782	60.472	47.632	0.00	0.00
ATOM	3741	HD22	LEU	X	247	51.098	60.021	49.285	0.00	0.00
ATOM	3742	HD23	LEU	X	247	50.655	61.464	48.531	0.00	0.00
ATOM	3743	C	LEU	X	247	54.208	63.205	51.137	0.00	0.00
ATOM	3744	O	LEU	X	247	55.056	63.715	50.383	0.00	0.00
ATOM	3745	N	ALA	X	248	53.437	63.999	51.886	0.00	0.00
ATOM	3746	H	ALA	X	248	52.644	63.539	52.310	0.00	0.00
ATOM	3747	CA	ALA	X	248	53.307	65.421	51.853	0.00	0.00
ATOM	3748	HA	ALA	X	248	53.126	65.775	50.838	0.00	0.00
ATOM	3749	CB	ALA	X	248	52.122	65.913	52.717	0.00	0.00
ATOM	3750	HB1	ALA	X	248	51.205	65.463	52.335	0.00	0.00
ATOM	3751	HB2	ALA	X	248	52.087	67.002	52.736	0.00	0.00
ATOM	3752	HB3	ALA	X	248	52.254	65.606	53.755	0.00	0.00
ATOM	3753	C	ALA	X	248	54.601	66.091	52.302	0.00	0.00
ATOM	3754	O	ALA	X	248	55.084	67.004	51.603	0.00	0.00
ATOM	3755	N	HIE	X	249	55.291	65.641	53.327	0.00	0.00
ATOM	3756	H	HIE	X	249	54.855	65.033	54.005	0.00	0.00
ATOM	3757	CA	HIE	X	249	56.699	66.086	53.619	0.00	0.00
ATOM	3758	HA	HIE	X	249	56.721	67.157	53.816	0.00	0.00
ATOM	3759	CB	HIE	X	249	57.173	65.436	54.920	0.00	0.00
ATOM	3760	HB2	HIE	X	249	56.381	65.615	55.648	0.00	0.00
ATOM	3761	HB3	HIE	X	249	57.425	64.386	54.771	0.00	0.00
ATOM	3762	CG	HIE	X	249	58.504	66.027	55.316	0.00	0.00
ATOM	3763	ND1	HIE	X	249	59.766	65.554	54.928	0.00	0.00
ATOM	3764	CE1	HIE	X	249	60.599	66.177	55.726	0.00	0.00
ATOM	3765	HE1	HIE	X	249	61.675	66.109	55.654	0.00	0.00
ATOM	3766	NE2	HIE	X	249	59.949	67.054	56.546	0.00	0.00
ATOM	3767	HE2	HIE	X	249	60.438	67.784	57.045	0.00	0.00
ATOM	3768	CD2	HIE	X	249	58.629	66.947	56.256	0.00	0.00
ATOM	3769	HD2	HIE	X	249	57.890	67.506	56.812	0.00	0.00
ATOM	3770	C	HIE	X	249	57.753	66.003	52.456	0.00	0.00
ATOM	3771	O	HIE	X	249	58.508	66.952	52.263	0.00	0.00
ATOM	3772	N	LEU	X	250	57.665	64.924	51.703	0.00	0.00
ATOM	3773	H	LEU	X	250	57.140	64.189	52.157	0.00	0.00
ATOM	3774	CA	LEU	X	250	58.357	64.622	50.473	0.00	0.00
ATOM	3775	HA	LEU	X	250	59.282	65.114	50.773	0.00	0.00
ATOM	3776	CB	LEU	X	250	58.589	63.110	50.264	0.00	0.00
ATOM	3777	HB2	LEU	X	250	58.836	62.775	51.271	0.00	0.00
ATOM	3778	HB3	LEU	X	250	57.670	62.660	49.887	0.00	0.00
ATOM	3779	CG	LEU	X	250	59.649	62.755	49.211	0.00	0.00
ATOM	3780	HG	LEU	X	250	59.270	62.972	48.212	0.00	0.00
ATOM	3781	CD1	LEU	X	250	60.989	63.451	49.385	0.00	0.00
ATOM	3782	HD11	LEU	X	250	61.619	63.269	48.514	0.00	0.00
ATOM	3783	HD12	LEU	X	250	61.536	63.236	50.303	0.00	0.00
ATOM	3784	HD13	LEU	X	250	60.809	64.522	49.293	0.00	0.00
ATOM	3785	CD2	LEU	X	250	60.033	61.242	49.276	0.00	0.00
ATOM	3786	HD21	LEU	X	250	59.117	60.669	49.421	0.00	0.00
ATOM	3787	HD22	LEU	X	250	60.649	60.991	48.412	0.00	0.00
ATOM	3788	HD23	LEU	X	250	60.721	61.127	50.113	0.00	0.00
ATOM	3789	C	LEU	X	250	57.875	65.338	49.202	0.00	0.00
ATOM	3790	O	LEU	X	250	58.715	65.800	48.434	0.00	0.00

ATOM	3791	N	VAL	X	251	56.573	65.552	49.044	0.00	0.00
ATOM	3792	H	VAL	X	251	55.986	64.960	49.614	0.00	0.00
ATOM	3793	CA	VAL	X	251	55.979	66.261	47.879	0.00	0.00
ATOM	3794	HA	VAL	X	251	56.427	65.828	46.985	0.00	0.00
ATOM	3795	CB	VAL	X	251	54.478	65.968	47.822	0.00	0.00
ATOM	3796	HB	VAL	X	251	54.088	65.925	48.839	0.00	0.00
ATOM	3797	CG1	VAL	X	251	53.605	66.792	46.953	0.00	0.00
ATOM	3798	HG11	VAL	X	251	53.533	67.791	47.385	0.00	0.00
ATOM	3799	HG12	VAL	X	251	54.019	66.778	45.945	0.00	0.00
ATOM	3800	HG13	VAL	X	251	52.591	66.403	47.045	0.00	0.00
ATOM	3801	CG2	VAL	X	251	54.307	64.498	47.289	0.00	0.00
ATOM	3802	HG21	VAL	X	251	54.970	63.771	47.757	0.00	0.00
ATOM	3803	HG22	VAL	X	251	54.537	64.466	46.224	0.00	0.00
ATOM	3804	HG23	VAL	X	251	53.257	64.219	47.378	0.00	0.00
ATOM	3805	C	VAL	X	251	56.077	67.786	48.028	0.00	0.00
ATOM	3806	O	VAL	X	251	56.116	68.450	47.013	0.00	0.00
ATOM	3807	N	GLY	X	252	56.278	68.335	49.251	0.00	0.00
ATOM	3808	H	GLY	X	252	56.022	67.768	50.048	0.00	0.00
ATOM	3809	CA	GLY	X	252	56.445	69.834	49.551	0.00	0.00
ATOM	3810	HA2	GLY	X	252	57.047	69.988	50.447	0.00	0.00
ATOM	3811	HA3	GLY	X	252	56.905	70.417	48.753	0.00	0.00
ATOM	3812	C	GLY	X	252	55.093	70.517	49.735	0.00	0.00
ATOM	3813	O	GLY	X	252	54.892	71.570	49.209	0.00	0.00
ATOM	3814	N	CYX	X	253	54.176	69.942	50.536	0.00	0.00
ATOM	3815	H	CYX	X	253	54.445	69.066	50.962	0.00	0.00
ATOM	3816	CA	CYX	X	253	52.867	70.482	50.824	0.00	0.00
ATOM	3817	HA	CYX	X	253	52.823	71.534	50.540	0.00	0.00
ATOM	3818	CB	CYX	X	253	51.786	69.648	50.082	0.00	0.00
ATOM	3819	HB2	CYX	X	253	51.987	68.586	50.223	0.00	0.00
ATOM	3820	HB3	CYX	X	253	50.798	69.722	50.536	0.00	0.00
ATOM	3821	SG	CYX	X	253	51.666	69.979	48.369	0.00	0.00
ATOM	3822	C	CYX	X	253	52.536	70.453	52.341	0.00	0.00
ATOM	3823	O	CYX	X	253	52.962	69.535	53.031	0.00	0.00
ATOM	3824	N	PRO	X	254	51.694	71.386	52.879	0.00	0.00
ATOM	3825	CD	PRO	X	254	51.182	71.386	54.257	0.00	0.00
ATOM	3826	HD2	PRO	X	254	51.931	71.232	55.033	0.00	0.00
ATOM	3827	HD3	PRO	X	254	50.606	70.465	54.347	0.00	0.00
ATOM	3828	CG	PRO	X	254	50.291	72.582	54.414	0.00	0.00
ATOM	3829	HG2	PRO	X	254	50.949	73.362	54.795	0.00	0.00
ATOM	3830	HG3	PRO	X	254	49.430	72.375	55.050	0.00	0.00
ATOM	3831	CB	PRO	X	254	49.881	72.926	52.957	0.00	0.00
ATOM	3832	HB2	PRO	X	254	49.578	73.950	52.739	0.00	0.00
ATOM	3833	HB3	PRO	X	254	49.049	72.269	52.706	0.00	0.00
ATOM	3834	CA	PRO	X	254	51.121	72.585	52.183	0.00	0.00
ATOM	3835	HA	PRO	X	254	50.732	72.134	51.270	0.00	0.00
ATOM	3836	C	PRO	X	254	52.179	73.659	51.958	0.00	0.00
ATOM	3837	O	PRO	X	254	53.218	73.565	52.541	0.00	0.00
ATOM	3838	N	PRO	X	255	51.944	74.770	51.175	0.00	0.00
ATOM	3839	CD	PRO	X	255	50.852	75.073	50.227	0.00	0.00
ATOM	3840	HD2	PRO	X	255	49.921	74.924	50.774	0.00	0.00
ATOM	3841	HD3	PRO	X	255	51.116	74.469	49.359	0.00	0.00
ATOM	3842	CG	PRO	X	255	50.844	76.514	49.861	0.00	0.00
ATOM	3843	HG2	PRO	X	255	50.185	77.099	50.503	0.00	0.00
ATOM	3844	HG3	PRO	X	255	50.709	76.600	48.783	0.00	0.00
ATOM	3845	CB	PRO	X	255	52.320	76.856	50.180	0.00	0.00
ATOM	3846	HB2	PRO	X	255	52.471	77.893	50.479	0.00	0.00
ATOM	3847	HB3	PRO	X	255	52.926	76.748	49.280	0.00	0.00
ATOM	3848	CA	PRO	X	255	52.866	75.880	51.224	0.00	0.00
ATOM	3849	HA	PRO	X	255	53.889	75.595	50.976	0.00	0.00
ATOM	3850	C	PRO	X	255	52.843	76.543	52.636	0.00	0.00
ATOM	3851	O	PRO	X	255	51.801	76.642	53.224	0.00	0.00
ATOM	3852	N	GLY	X	256	53.982	77.019	53.057	0.00	0.00
ATOM	3853	H	GLY	X	256	54.746	76.866	52.414	0.00	0.00
ATOM	3854	CA	GLY	X	256	54.233	77.471	54.383	0.00	0.00
ATOM	3855	HA2	GLY	X	256	55.019	78.204	54.198	0.00	0.00
ATOM	3856	HA3	GLY	X	256	53.315	77.812	54.861	0.00	0.00
ATOM	3857	C	GLY	X	256	54.902	76.396	55.258	0.00	0.00

ATOM	3858	O	GLY	X	256	55.196	76.701	56.380	0.00	0.00
ATOM	3859	N	GLY	X	257	55.237	75.180	54.794	0.00	0.00
ATOM	3860	H	GLY	X	257	54.982	74.875	53.866	0.00	0.00
ATOM	3861	CA	GLY	X	257	55.769	74.180	55.770	0.00	0.00
ATOM	3862	HA2	GLY	X	257	56.848	74.146	55.919	0.00	0.00
ATOM	3863	HA3	GLY	X	257	55.331	74.393	56.745	0.00	0.00
ATOM	3864	C	GLY	X	257	55.292	72.821	55.373	0.00	0.00
ATOM	3865	O	GLY	X	257	55.292	72.495	54.181	0.00	0.00
ATOM	3866	N	THR	X	258	54.949	71.958	56.296	0.00	0.00
ATOM	3867	H	THR	X	258	55.077	72.139	57.281	0.00	0.00
ATOM	3868	CA	THR	X	258	54.498	70.589	56.071	0.00	0.00
ATOM	3869	HA	THR	X	258	53.938	70.661	55.139	0.00	0.00
ATOM	3870	CB	THR	X	258	55.700	69.627	55.978	0.00	0.00
ATOM	3871	HB	THR	X	258	55.282	68.621	56.013	0.00	0.00
ATOM	3872	CG2	THR	X	258	56.558	69.977	54.781	0.00	0.00
ATOM	3873	HG21	THR	X	258	57.055	70.936	54.930	0.00	0.00
ATOM	3874	HG22	THR	X	258	55.952	69.938	53.876	0.00	0.00
ATOM	3875	HG23	THR	X	258	57.440	69.337	54.732	0.00	0.00
ATOM	3876	OG1	THR	X	258	56.476	69.786	57.123	0.00	0.00
ATOM	3877	HG1	THR	X	258	57.087	70.504	56.944	0.00	0.00
ATOM	3878	C	THR	X	258	53.585	69.964	57.197	0.00	0.00
ATOM	3879	O	THR	X	258	53.337	70.511	58.313	0.00	0.00
ATOM	3880	N	GLY	X	259	52.906	68.860	56.893	0.00	0.00
ATOM	3881	H	GLY	X	259	52.782	68.543	55.942	0.00	0.00
ATOM	3882	CA	GLY	X	259	51.936	68.266	57.830	0.00	0.00
ATOM	3883	HA2	GLY	X	259	51.675	67.257	57.513	0.00	0.00
ATOM	3884	HA3	GLY	X	259	52.378	68.148	58.820	0.00	0.00
ATOM	3885	C	GLY	X	259	50.710	69.131	58.031	0.00	0.00
ATOM	3886	O	GLY	X	259	50.374	69.918	57.168	0.00	0.00
ATOM	3887	N	GLY	X	260	50.133	69.146	59.224	0.00	0.00
ATOM	3888	H	GLY	X	260	50.357	68.379	59.841	0.00	0.00
ATOM	3889	CA	GLY	X	260	49.152	70.187	59.564	0.00	0.00
ATOM	3890	HA2	GLY	X	260	48.985	70.306	60.635	0.00	0.00
ATOM	3891	HA3	GLY	X	260	49.404	71.169	59.165	0.00	0.00
ATOM	3892	C	GLY	X	260	47.734	69.902	59.098	0.00	0.00
ATOM	3893	O	GLY	X	260	47.282	68.784	59.140	0.00	0.00
ATOM	3894	N	ASN	X	261	46.963	70.953	58.756	0.00	0.00
ATOM	3895	H	ASN	X	261	47.378	71.851	58.553	0.00	0.00
ATOM	3896	CA	ASN	X	261	45.582	70.975	58.483	0.00	0.00
ATOM	3897	HA	ASN	X	261	44.979	70.734	59.358	0.00	0.00
ATOM	3898	CB	ASN	X	261	45.163	72.449	58.273	0.00	0.00
ATOM	3899	HB2	ASN	X	261	45.555	73.032	59.106	0.00	0.00
ATOM	3900	HB3	ASN	X	261	45.623	72.839	57.365	0.00	0.00
ATOM	3901	CG	ASN	X	261	43.645	72.698	58.157	0.00	0.00
ATOM	3902	OD1	ASN	X	261	43.150	72.797	57.122	0.00	0.00
ATOM	3903	ND2	ASN	X	261	42.982	72.922	59.227	0.00	0.00
ATOM	3904	HD21	ASN	X	261	41.973	72.965	59.195	0.00	0.00
ATOM	3905	HD22	ASN	X	261	43.473	73.052	60.100	0.00	0.00
ATOM	3906	C	ASN	X	261	45.185	70.216	57.234	0.00	0.00
ATOM	3907	O	ASN	X	261	45.648	70.407	56.097	0.00	0.00
ATOM	3908	N	ASP	X	262	44.322	69.207	57.339	0.00	0.00
ATOM	3909	H	ASP	X	262	43.949	69.016	58.258	0.00	0.00
ATOM	3910	CA	ASP	X	262	44.090	68.164	56.375	0.00	0.00
ATOM	3911	HA	ASP	X	262	45.042	67.719	56.088	0.00	0.00
ATOM	3912	CB	ASP	X	262	43.250	66.971	56.949	0.00	0.00
ATOM	3913	HB2	ASP	X	262	42.253	67.320	57.220	0.00	0.00
ATOM	3914	HB3	ASP	X	262	43.204	66.222	56.158	0.00	0.00
ATOM	3915	CG	ASP	X	262	43.822	66.482	58.288	0.00	0.00
ATOM	3916	OD1	ASP	X	262	44.760	65.632	58.381	0.00	0.00
ATOM	3917	OD2	ASP	X	262	43.221	66.888	59.291	0.00	0.00
ATOM	3918	C	ASP	X	262	43.464	68.600	55.040	0.00	0.00
ATOM	3919	O	ASP	X	262	43.912	68.174	53.898	0.00	0.00
ATOM	3920	N	THR	X	263	42.493	69.510	55.117	0.00	0.00
ATOM	3921	H	THR	X	263	42.259	69.775	56.063	0.00	0.00
ATOM	3922	CA	THR	X	263	41.977	70.366	53.941	0.00	0.00
ATOM	3923	HA	THR	X	263	41.362	69.847	53.207	0.00	0.00
ATOM	3924	CB	THR	X	263	40.950	71.330	54.494	0.00	0.00

ATOM	3925	HB	THR	X	263	41.402	72.012	55.214	0.00	0.00
ATOM	3926	CG2	THR	X	263	40.111	72.057	53.461	0.00	0.00
ATOM	3927	HG21	THR	X	263	40.766	72.481	52.700	0.00	0.00
ATOM	3928	HG22	THR	X	263	39.590	72.869	53.967	0.00	0.00
ATOM	3929	HG23	THR	X	263	39.293	71.461	53.057	0.00	0.00
ATOM	3930	OG1	THR	X	263	39.943	70.621	55.206	0.00	0.00
ATOM	3931	HG1	THR	X	263	39.747	71.037	56.049	0.00	0.00
ATOM	3932	C	THR	X	263	43.039	71.090	53.173	0.00	0.00
ATOM	3933	O	THR	X	263	43.070	70.977	51.973	0.00	0.00
ATOM	3934	N	GLU	X	264	43.972	71.739	53.885	0.00	0.00
ATOM	3935	H	GLU	X	264	43.980	71.602	54.886	0.00	0.00
ATOM	3936	CA	GLU	X	264	45.105	72.552	53.331	0.00	0.00
ATOM	3937	HA	GLU	X	264	44.648	73.126	52.524	0.00	0.00
ATOM	3938	CB	GLU	X	264	45.732	73.455	54.357	0.00	0.00
ATOM	3939	HB2	GLU	X	264	45.982	72.799	55.191	0.00	0.00
ATOM	3940	HB3	GLU	X	264	46.726	73.824	54.106	0.00	0.00
ATOM	3941	CG	GLU	X	264	44.986	74.726	54.806	0.00	0.00
ATOM	3942	HG2	GLU	X	264	44.047	74.364	55.225	0.00	0.00
ATOM	3943	HG3	GLU	X	264	45.567	75.293	55.533	0.00	0.00
ATOM	3944	CD	GLU	X	264	44.660	75.565	53.548	0.00	0.00
ATOM	3945	OE1	GLU	X	264	43.474	75.880	53.422	0.00	0.00
ATOM	3946	OE2	GLU	X	264	45.492	75.979	52.730	0.00	0.00
ATOM	3947	C	GLU	X	264	46.264	71.678	52.731	0.00	0.00
ATOM	3948	O	GLU	X	264	46.786	72.066	51.693	0.00	0.00
ATOM	3949	N	LEU	X	265	46.555	70.526	53.387	0.00	0.00
ATOM	3950	H	LEU	X	265	46.248	70.431	54.344	0.00	0.00
ATOM	3951	CA	LEU	X	265	47.393	69.375	52.952	0.00	0.00
ATOM	3952	HA	LEU	X	265	48.374	69.830	52.819	0.00	0.00
ATOM	3953	CB	LEU	X	265	47.471	68.378	54.087	0.00	0.00
ATOM	3954	HB2	LEU	X	265	47.652	69.001	54.964	0.00	0.00
ATOM	3955	HB3	LEU	X	265	46.480	68.029	54.376	0.00	0.00
ATOM	3956	CG	LEU	X	265	48.548	67.295	53.939	0.00	0.00
ATOM	3957	HG	LEU	X	265	49.441	67.632	53.413	0.00	0.00
ATOM	3958	CD1	LEU	X	265	48.890	66.836	55.300	0.00	0.00
ATOM	3959	HD11	LEU	X	265	48.022	66.512	55.874	0.00	0.00
ATOM	3960	HD12	LEU	X	265	49.388	67.603	55.894	0.00	0.00
ATOM	3961	HD13	LEU	X	265	49.519	65.948	55.239	0.00	0.00
ATOM	3962	CD2	LEU	X	265	47.921	66.079	53.241	0.00	0.00
ATOM	3963	HD21	LEU	X	265	46.885	65.971	53.562	0.00	0.00
ATOM	3964	HD22	LEU	X	265	47.825	66.232	52.166	0.00	0.00
ATOM	3965	HD23	LEU	X	265	48.478	65.166	53.451	0.00	0.00
ATOM	3966	C	LEU	X	265	46.819	68.777	51.700	0.00	0.00
ATOM	3967	O	LEU	X	265	47.458	68.850	50.680	0.00	0.00
ATOM	3968	N	VAL	X	266	45.493	68.379	51.681	0.00	0.00
ATOM	3969	H	VAL	X	266	44.883	68.535	52.471	0.00	0.00
ATOM	3970	CA	VAL	X	266	44.913	67.574	50.545	0.00	0.00
ATOM	3971	HA	VAL	X	266	45.755	66.933	50.284	0.00	0.00
ATOM	3972	CB	VAL	X	266	43.647	66.688	50.969	0.00	0.00
ATOM	3973	HB	VAL	X	266	43.870	66.258	51.946	0.00	0.00
ATOM	3974	CG1	VAL	X	266	42.288	67.409	51.055	0.00	0.00
ATOM	3975	HG11	VAL	X	266	41.495	66.736	51.383	0.00	0.00
ATOM	3976	HG12	VAL	X	266	42.321	68.350	51.604	0.00	0.00
ATOM	3977	HG13	VAL	X	266	41.972	67.722	50.060	0.00	0.00
ATOM	3978	CG2	VAL	X	266	43.385	65.447	50.125	0.00	0.00
ATOM	3979	HG21	VAL	X	266	44.176	64.704	50.228	0.00	0.00
ATOM	3980	HG22	VAL	X	266	43.255	65.767	49.091	0.00	0.00
ATOM	3981	HG23	VAL	X	266	42.451	64.933	50.350	0.00	0.00
ATOM	3982	C	VAL	X	266	44.582	68.485	49.354	0.00	0.00
ATOM	3983	O	VAL	X	266	44.662	67.973	48.255	0.00	0.00
ATOM	3984	N	ALA	X	267	44.353	69.814	49.474	0.00	0.00
ATOM	3985	H	ALA	X	267	44.160	70.180	50.395	0.00	0.00
ATOM	3986	CA	ALA	X	267	44.260	70.713	48.272	0.00	0.00
ATOM	3987	HA	ALA	X	267	43.554	70.281	47.562	0.00	0.00
ATOM	3988	CB	ALA	X	267	43.749	72.097	48.676	0.00	0.00
ATOM	3989	HB1	ALA	X	267	42.785	71.922	49.154	0.00	0.00
ATOM	3990	HB2	ALA	X	267	43.584	72.797	47.857	0.00	0.00
ATOM	3991	HB3	ALA	X	267	44.437	72.599	49.355	0.00	0.00

ATOM	3992	C	ALA	X	267	45.656	70.819	47.568	0.00	0.00
ATOM	3993	O	ALA	X	267	45.669	70.794	46.336	0.00	0.00
ATOM	3994	N	CYX	X	268	46.726	70.943	48.332	0.00	0.00
ATOM	3995	H	CYX	X	268	46.611	71.143	49.316	0.00	0.00
ATOM	3996	CA	CYX	X	268	48.067	71.013	47.771	0.00	0.00
ATOM	3997	HA	CYX	X	268	48.155	71.744	46.967	0.00	0.00
ATOM	3998	CB	CYX	X	268	49.057	71.486	48.913	0.00	0.00
ATOM	3999	HB2	CYX	X	268	48.723	72.402	49.401	0.00	0.00
ATOM	4000	HB3	CYX	X	268	49.160	70.691	49.651	0.00	0.00
ATOM	4001	SG	CYX	X	268	50.775	71.837	48.381	0.00	0.00
ATOM	4002	C	CYX	X	268	48.481	69.725	47.141	0.00	0.00
ATOM	4003	O	CYX	X	268	49.012	69.672	45.971	0.00	0.00
ATOM	4004	N	LEU	X	269	48.148	68.586	47.818	0.00	0.00
ATOM	4005	H	LEU	X	269	47.603	68.684	48.663	0.00	0.00
ATOM	4006	CA	LEU	X	269	48.232	67.189	47.289	0.00	0.00
ATOM	4007	HA	LEU	X	269	49.269	66.965	47.036	0.00	0.00
ATOM	4008	CB	LEU	X	269	47.913	66.200	48.368	0.00	0.00
ATOM	4009	HB2	LEU	X	269	47.985	66.735	49.315	0.00	0.00
ATOM	4010	HB3	LEU	X	269	46.876	65.878	48.279	0.00	0.00
ATOM	4011	CG	LEU	X	269	48.900	64.994	48.481	0.00	0.00
ATOM	4012	HG	LEU	X	269	49.032	64.559	47.490	0.00	0.00
ATOM	4013	CD1	LEU	X	269	50.384	65.418	48.926	0.00	0.00
ATOM	4014	HD11	LEU	X	269	51.017	64.533	48.996	0.00	0.00
ATOM	4015	HD12	LEU	X	269	50.413	65.991	49.852	0.00	0.00
ATOM	4016	HD13	LEU	X	269	50.765	66.161	48.225	0.00	0.00
ATOM	4017	CD2	LEU	X	269	48.325	63.968	49.422	0.00	0.00
ATOM	4018	HD21	LEU	X	269	47.473	63.534	48.899	0.00	0.00
ATOM	4019	HD22	LEU	X	269	49.034	63.216	49.768	0.00	0.00
ATOM	4020	HD23	LEU	X	269	47.893	64.428	50.311	0.00	0.00
ATOM	4021	C	LEU	X	269	47.341	66.904	46.014	0.00	0.00
ATOM	4022	O	LEU	X	269	47.658	65.989	45.284	0.00	0.00
ATOM	4023	N	ARG	X	270	46.407	67.839	45.729	0.00	0.00
ATOM	4024	H	ARG	X	270	46.169	68.527	46.428	0.00	0.00
ATOM	4025	CA	ARG	X	270	45.623	67.812	44.491	0.00	0.00
ATOM	4026	HA	ARG	X	270	45.577	66.809	44.068	0.00	0.00
ATOM	4027	CB	ARG	X	270	44.143	68.237	44.613	0.00	0.00
ATOM	4028	HB2	ARG	X	270	43.963	69.155	45.172	0.00	0.00
ATOM	4029	HB3	ARG	X	270	43.772	68.424	43.606	0.00	0.00
ATOM	4030	CG	ARG	X	270	43.329	67.116	45.230	0.00	0.00
ATOM	4031	HG2	ARG	X	270	43.745	66.193	44.824	0.00	0.00
ATOM	4032	HG3	ARG	X	270	43.570	67.136	46.292	0.00	0.00
ATOM	4033	CD	ARG	X	270	41.782	67.152	45.059	0.00	0.00
ATOM	4034	HD2	ARG	X	270	41.548	67.866	44.269	0.00	0.00
ATOM	4035	HD3	ARG	X	270	41.376	66.239	44.623	0.00	0.00
ATOM	4036	NE	ARG	X	270	41.120	67.431	46.438	0.00	0.00
ATOM	4037	HE	ARG	X	270	41.274	68.343	46.843	0.00	0.00
ATOM	4038	CZ	ARG	X	270	40.464	66.635	47.185	0.00	0.00
ATOM	4039	NH1	ARG	X	270	40.586	65.275	47.042	0.00	0.00
ATOM	4040	HH11	ARG	X	270	41.096	64.796	46.314	0.00	0.00
ATOM	4041	HH12	ARG	X	270	39.993	64.699	47.622	0.00	0.00
ATOM	4042	NH2	ARG	X	270	39.702	67.042	48.157	0.00	0.00
ATOM	4043	HH21	ARG	X	270	39.427	68.010	48.074	0.00	0.00
ATOM	4044	HH22	ARG	X	270	39.201	66.346	48.690	0.00	0.00
ATOM	4045	C	ARG	X	270	46.270	68.755	43.449	0.00	0.00
ATOM	4046	O	ARG	X	270	45.948	68.492	42.262	0.00	0.00
ATOM	4047	N	THR	X	271	46.953	69.840	43.862	0.00	0.00
ATOM	4048	H	THR	X	271	46.888	70.130	44.827	0.00	0.00
ATOM	4049	CA	THR	X	271	47.516	70.727	42.845	0.00	0.00
ATOM	4050	HA	THR	X	271	46.782	70.816	42.044	0.00	0.00
ATOM	4051	CB	THR	X	271	47.745	72.142	43.446	0.00	0.00
ATOM	4052	HB	THR	X	271	48.341	72.141	44.359	0.00	0.00
ATOM	4053	CG2	THR	X	271	48.333	73.058	42.417	0.00	0.00
ATOM	4054	HG21	THR	X	271	49.384	72.783	42.327	0.00	0.00
ATOM	4055	HG22	THR	X	271	48.249	74.122	42.635	0.00	0.00
ATOM	4056	HG23	THR	X	271	47.734	73.002	41.508	0.00	0.00
ATOM	4057	OG1	THR	X	271	46.479	72.653	43.685	0.00	0.00
ATOM	4058	HG1	THR	X	271	46.546	73.170	44.491	0.00	0.00

ATOM	4059	C	THR	X	271	48.749	70.160	42.116	0.00	0.00
ATOM	4060	O	THR	X	271	48.777	70.250	40.852	0.00	0.00
ATOM	4061	N	ARG	X	272	49.749	69.638	42.849	0.00	0.00
ATOM	4062	H	ARG	X	272	49.628	69.592	43.851	0.00	0.00
ATOM	4063	CA	ARG	X	272	51.087	69.332	42.276	0.00	0.00
ATOM	4064	HA	ARG	X	272	51.301	70.186	41.634	0.00	0.00
ATOM	4065	CB	ARG	X	272	52.175	69.267	43.303	0.00	0.00
ATOM	4066	HB2	ARG	X	272	51.989	68.379	43.906	0.00	0.00
ATOM	4067	HB3	ARG	X	272	53.102	69.389	42.742	0.00	0.00
ATOM	4068	CG	ARG	X	272	52.149	70.279	44.509	0.00	0.00
ATOM	4069	HG2	ARG	X	272	51.162	70.284	44.972	0.00	0.00
ATOM	4070	HG3	ARG	X	272	52.908	69.931	45.211	0.00	0.00
ATOM	4071	CD	ARG	X	272	52.416	71.699	44.061	0.00	0.00
ATOM	4072	HD2	ARG	X	272	53.461	71.871	43.802	0.00	0.00
ATOM	4073	HD3	ARG	X	272	51.804	71.771	43.162	0.00	0.00
ATOM	4074	NE	ARG	X	272	52.041	72.647	45.105	0.00	0.00
ATOM	4075	HE	ARG	X	272	51.177	73.159	45.002	0.00	0.00
ATOM	4076	CZ	ARG	X	272	52.808	73.247	46.037	0.00	0.00
ATOM	4077	NH1	ARG	X	272	54.001	72.842	46.458	0.00	0.00
ATOM	4078	HH11	ARG	X	272	54.523	72.023	46.179	0.00	0.00
ATOM	4079	HH12	ARG	X	272	54.320	73.365	47.261	0.00	0.00
ATOM	4080	NH2	ARG	X	272	52.309	74.386	46.573	0.00	0.00
ATOM	4081	HH21	ARG	X	272	51.452	74.754	46.187	0.00	0.00
ATOM	4082	HH22	ARG	X	272	52.726	74.910	47.329	0.00	0.00
ATOM	4083	C	ARG	X	272	51.078	68.124	41.252	0.00	0.00
ATOM	4084	O	ARG	X	272	50.216	67.280	41.513	0.00	0.00
ATOM	4085	N	PRO	X	273	51.944	67.984	40.218	0.00	0.00
ATOM	4086	CD	PRO	X	273	53.129	68.764	40.001	0.00	0.00
ATOM	4087	HD2	PRO	X	273	53.920	68.318	40.604	0.00	0.00
ATOM	4088	HD3	PRO	X	273	52.970	69.803	40.290	0.00	0.00
ATOM	4089	CG	PRO	X	273	53.559	68.604	38.472	0.00	0.00
ATOM	4090	HG2	PRO	X	273	54.634	68.762	38.390	0.00	0.00
ATOM	4091	HG3	PRO	X	273	52.878	69.216	37.881	0.00	0.00
ATOM	4092	CB	PRO	X	273	53.114	67.212	38.187	0.00	0.00
ATOM	4093	HB2	PRO	X	273	53.879	66.502	38.501	0.00	0.00
ATOM	4094	HB3	PRO	X	273	52.935	67.045	37.124	0.00	0.00
ATOM	4095	CA	PRO	X	273	51.818	67.118	39.009	0.00	0.00
ATOM	4096	HA	PRO	X	273	50.934	67.363	38.421	0.00	0.00
ATOM	4097	C	PRO	X	273	51.709	65.685	39.582	0.00	0.00
ATOM	4098	O	PRO	X	273	52.444	65.271	40.495	0.00	0.00
ATOM	4099	N	ALA	X	274	50.960	64.721	38.982	0.00	0.00
ATOM	4100	H	ALA	X	274	50.331	65.040	38.259	0.00	0.00
ATOM	4101	CA	ALA	X	274	51.042	63.253	39.203	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.588	63.144	40.189	0.00	0.00
ATOM	4103	CB	ALA	X	274	50.051	62.508	38.276	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.804	61.500	38.611	0.00	0.00
ATOM	4105	HB2	ALA	X	274	50.501	62.500	37.283	0.00	0.00
ATOM	4106	HB3	ALA	X	274	49.182	63.165	38.260	0.00	0.00
ATOM	4107	C	ALA	X	274	52.502	62.701	39.100	0.00	0.00
ATOM	4108	O	ALA	X	274	53.020	61.951	40.007	0.00	0.00
ATOM	4109	N	GLN	X	275	53.210	63.180	38.088	0.00	0.00
ATOM	4110	H	GLN	X	275	52.764	63.832	37.460	0.00	0.00
ATOM	4111	CA	GLN	X	275	54.692	62.914	37.910	0.00	0.00
ATOM	4112	HA	GLN	X	275	54.729	61.832	37.782	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.209	63.560	36.684	0.00	0.00
ATOM	4114	HB2	GLN	X	275	54.805	64.560	36.845	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.297	63.600	36.733	0.00	0.00
ATOM	4116	CG	GLN	X	275	54.758	62.881	35.355	0.00	0.00
ATOM	4117	HG2	GLN	X	275	55.373	61.989	35.241	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.726	62.556	35.484	0.00	0.00
ATOM	4119	CD	GLN	X	275	54.972	63.718	34.099	0.00	0.00
ATOM	4120	OE1	GLN	X	275	54.059	64.250	33.467	0.00	0.00
ATOM	4121	NE2	GLN	X	275	56.140	63.741	33.554	0.00	0.00
ATOM	4122	HE21	GLN	X	275	56.249	64.128	32.627	0.00	0.00
ATOM	4123	HE22	GLN	X	275	56.992	63.383	33.962	0.00	0.00
ATOM	4124	C	GLN	X	275	55.557	63.166	39.129	0.00	0.00
ATOM	4125	O	GLN	X	275	56.529	62.385	39.297	0.00	0.00

ATOM	4126	N	VAL	X	276	55.192	64.068	40.087	0.00	0.00
ATOM	4127	H	VAL	X	276	54.309	64.535	39.937	0.00	0.00
ATOM	4128	CA	VAL	X	276	55.795	64.194	41.404	0.00	0.00
ATOM	4129	HA	VAL	X	276	56.857	64.012	41.238	0.00	0.00
ATOM	4130	CB	VAL	X	276	55.547	65.656	41.883	0.00	0.00
ATOM	4131	HB	VAL	X	276	54.466	65.724	42.006	0.00	0.00
ATOM	4132	CG1	VAL	X	276	56.200	65.815	43.325	0.00	0.00
ATOM	4133	HG11	VAL	X	276	55.743	65.152	44.059	0.00	0.00
ATOM	4134	HG12	VAL	X	276	57.239	65.529	43.160	0.00	0.00
ATOM	4135	HG13	VAL	X	276	56.072	66.817	43.734	0.00	0.00
ATOM	4136	CG2	VAL	X	276	56.048	66.635	40.788	0.00	0.00
ATOM	4137	HG21	VAL	X	276	56.245	67.581	41.292	0.00	0.00
ATOM	4138	HG22	VAL	X	276	55.365	66.687	39.941	0.00	0.00
ATOM	4139	HG23	VAL	X	276	56.985	66.350	40.308	0.00	0.00
ATOM	4140	C	VAL	X	276	55.237	63.179	42.436	0.00	0.00
ATOM	4141	O	VAL	X	276	55.953	62.404	43.059	0.00	0.00
ATOM	4142	N	LEU	X	277	53.910	63.202	42.595	0.00	0.00
ATOM	4143	H	LEU	X	277	53.410	63.741	41.902	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.135	62.372	43.443	0.00	0.00
ATOM	4145	HA	LEU	X	277	53.347	62.721	44.453	0.00	0.00
ATOM	4146	CB	LEU	X	277	51.603	62.458	43.216	0.00	0.00
ATOM	4147	HB2	LEU	X	277	51.480	62.818	42.195	0.00	0.00
ATOM	4148	HB3	LEU	X	277	51.221	61.442	43.323	0.00	0.00
ATOM	4149	CG	LEU	X	277	50.822	63.354	44.182	0.00	0.00
ATOM	4150	HG	LEU	X	277	49.814	63.447	43.779	0.00	0.00
ATOM	4151	CD1	LEU	X	277	50.822	62.895	45.629	0.00	0.00
ATOM	4152	HD11	LEU	X	277	50.217	63.612	46.186	0.00	0.00
ATOM	4153	HD12	LEU	X	277	51.845	62.830	45.998	0.00	0.00
ATOM	4154	HD13	LEU	X	277	50.321	61.931	45.540	0.00	0.00
ATOM	4155	CD2	LEU	X	277	51.368	64.793	44.294	0.00	0.00
ATOM	4156	HD21	LEU	X	277	52.262	64.758	44.917	0.00	0.00
ATOM	4157	HD22	LEU	X	277	51.612	65.350	43.389	0.00	0.00
ATOM	4158	HD23	LEU	X	277	50.618	65.367	44.838	0.00	0.00
ATOM	4159	C	LEU	X	277	53.538	60.849	43.258	0.00	0.00
ATOM	4160	O	LEU	X	277	53.814	60.208	44.249	0.00	0.00
ATOM	4161	N	VAL	X	278	53.668	60.349	42.027	0.00	0.00
ATOM	4162	H	VAL	X	278	53.152	60.922	41.375	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.944	58.930	41.736	0.00	0.00
ATOM	4164	HA	VAL	X	278	53.319	58.385	42.444	0.00	0.00
ATOM	4165	CB	VAL	X	278	53.657	58.409	40.303	0.00	0.00
ATOM	4166	HB	VAL	X	278	52.726	58.900	40.022	0.00	0.00
ATOM	4167	CG1	VAL	X	278	54.603	59.078	39.272	0.00	0.00
ATOM	4168	HG11	VAL	X	278	54.649	60.159	39.400	0.00	0.00
ATOM	4169	HG12	VAL	X	278	55.612	58.665	39.281	0.00	0.00
ATOM	4170	HG13	VAL	X	278	54.238	58.740	38.302	0.00	0.00
ATOM	4171	CG2	VAL	X	278	53.584	56.867	40.375	0.00	0.00
ATOM	4172	HG21	VAL	X	278	54.585	56.488	40.583	0.00	0.00
ATOM	4173	HG22	VAL	X	278	53.408	56.397	39.408	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.785	56.516	41.028	0.00	0.00
ATOM	4175	C	VAL	X	278	55.357	58.651	42.213	0.00	0.00
ATOM	4176	O	VAL	X	278	55.586	57.656	42.973	0.00	0.00
ATOM	4177	N	ASN	X	279	56.320	59.425	41.816	0.00	0.00
ATOM	4178	H	ASN	X	279	56.073	60.276	41.332	0.00	0.00
ATOM	4179	CA	ASN	X	279	57.718	59.232	42.071	0.00	0.00
ATOM	4180	HA	ASN	X	279	57.823	58.242	41.628	0.00	0.00
ATOM	4181	CB	ASN	X	279	58.485	60.029	41.033	0.00	0.00
ATOM	4182	HB2	ASN	X	279	58.285	59.712	40.010	0.00	0.00
ATOM	4183	HB3	ASN	X	279	58.251	61.086	41.162	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.953	59.783	41.177	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.692	60.533	41.768	0.00	0.00
ATOM	4186	ND2	ASN	X	279	60.453	58.760	40.453	0.00	0.00
ATOM	4187	HD21	ASN	X	279	61.399	58.541	40.730	0.00	0.00
ATOM	4188	HD22	ASN	X	279	59.863	58.079	39.998	0.00	0.00
ATOM	4189	C	ASN	X	279	58.137	59.264	43.568	0.00	0.00
ATOM	4190	O	ASN	X	279	58.924	58.366	43.963	0.00	0.00
ATOM	4191	N	HIE	X	280	57.439	59.995	44.424	0.00	0.00
ATOM	4192	H	HIE	X	280	56.801	60.636	43.975	0.00	0.00

ATOM	4193	CA	HIE	X	280	57.523	59.970	45.870	0.00	0.00
ATOM	4194	HA	HIE	X	280	58.545	59.836	46.223	0.00	0.00
ATOM	4195	CB	HIE	X	280	57.143	61.332	46.433	0.00	0.00
ATOM	4196	HB2	HIE	X	280	56.160	61.576	46.030	0.00	0.00
ATOM	4197	HB3	HIE	X	280	57.180	61.197	47.514	0.00	0.00
ATOM	4198	CG	HIE	X	280	58.092	62.429	45.974	0.00	0.00
ATOM	4199	ND1	HIE	X	280	59.418	62.255	45.726	0.00	0.00
ATOM	4200	CE1	HIE	X	280	59.756	63.407	45.239	0.00	0.00
ATOM	4201	HE1	HIE	X	280	60.738	63.625	44.844	0.00	0.00
ATOM	4202	NE2	HIE	X	280	58.750	64.250	45.083	0.00	0.00
ATOM	4203	HE2	HIE	X	280	58.839	65.195	44.739	0.00	0.00
ATOM	4204	CD2	HIE	X	280	57.645	63.653	45.620	0.00	0.00
ATOM	4205	HD2	HIE	X	280	56.634	64.033	45.627	0.00	0.00
ATOM	4206	C	HIE	X	280	56.772	58.769	46.570	0.00	0.00
ATOM	4207	O	HIE	X	280	57.122	58.378	47.657	0.00	0.00
ATOM	4208	N	GLU	X	281	55.772	58.170	45.933	0.00	0.00
ATOM	4209	H	GLU	X	281	55.510	58.444	44.997	0.00	0.00
ATOM	4210	CA	GLU	X	281	54.997	57.091	46.645	0.00	0.00
ATOM	4211	HA	GLU	X	281	54.638	57.483	47.596	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.812	56.743	45.659	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.455	57.645	45.162	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.128	55.964	44.966	0.00	0.00
ATOM	4215	CG	GLU	X	281	52.658	56.241	46.594	0.00	0.00
ATOM	4216	HG2	GLU	X	281	52.975	55.508	47.336	0.00	0.00
ATOM	4217	HG3	GLU	X	281	52.192	57.110	47.059	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.579	55.717	45.712	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.802	56.488	45.132	0.00	0.00
ATOM	4220	OE2	GLU	X	281	51.523	54.471	45.450	0.00	0.00
ATOM	4221	C	GLU	X	281	55.854	55.828	46.972	0.00	0.00
ATOM	4222	O	GLU	X	281	55.559	55.096	47.955	0.00	0.00
ATOM	4223	N	TRP	X	282	56.895	55.485	46.196	0.00	0.00
ATOM	4224	H	TRP	X	282	57.026	55.943	45.305	0.00	0.00
ATOM	4225	CA	TRP	X	282	57.900	54.493	46.681	0.00	0.00
ATOM	4226	HA	TRP	X	282	57.388	53.538	46.800	0.00	0.00
ATOM	4227	CB	TRP	X	282	58.983	54.293	45.563	0.00	0.00
ATOM	4228	HB2	TRP	X	282	58.578	54.142	44.563	0.00	0.00
ATOM	4229	HB3	TRP	X	282	59.477	55.263	45.503	0.00	0.00
ATOM	4230	CG	TRP	X	282	60.127	53.338	46.024	0.00	0.00
ATOM	4231	CD1	TRP	X	282	60.151	52.005	45.790	0.00	0.00
ATOM	4232	HD1	TRP	X	282	59.358	51.484	45.275	0.00	0.00
ATOM	4233	NE1	TRP	X	282	61.088	51.409	46.491	0.00	0.00
ATOM	4234	HE1	TRP	X	282	61.398	50.451	46.423	0.00	0.00
ATOM	4235	CE2	TRP	X	282	61.801	52.253	47.255	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	62.853	52.110	48.208	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	63.230	51.118	48.410	0.00	0.00
ATOM	4238	CH2	TRP	X	282	63.269	53.224	48.936	0.00	0.00
ATOM	4239	HH2	TRP	X	282	63.833	53.053	49.841	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	62.727	54.474	48.652	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	62.975	55.325	49.269	0.00	0.00
ATOM	4242	CE3	TRP	X	282	61.763	54.571	47.695	0.00	0.00
ATOM	4243	HE3	TRP	X	282	61.450	55.598	47.576	0.00	0.00
ATOM	4244	CD2	TRP	X	282	61.198	53.532	46.990	0.00	0.00
ATOM	4245	C	TRP	X	282	58.513	54.739	48.056	0.00	0.00
ATOM	4246	O	TRP	X	282	58.671	53.741	48.756	0.00	0.00
ATOM	4247	N	HIE	X	283	58.614	55.974	48.507	0.00	0.00
ATOM	4248	H	HIE	X	283	58.248	56.744	47.966	0.00	0.00
ATOM	4249	CA	HIE	X	283	59.018	56.157	49.902	0.00	0.00
ATOM	4250	HA	HIE	X	283	59.774	55.427	50.193	0.00	0.00
ATOM	4251	CB	HIE	X	283	59.434	57.577	50.013	0.00	0.00
ATOM	4252	HB2	HIE	X	283	58.637	58.238	49.673	0.00	0.00
ATOM	4253	HB3	HIE	X	283	59.654	57.870	51.040	0.00	0.00
ATOM	4254	CG	HIE	X	283	60.671	57.967	49.200	0.00	0.00
ATOM	4255	ND1	HIE	X	283	61.956	57.843	49.680	0.00	0.00
ATOM	4256	CE1	HIE	X	283	62.724	58.016	48.585	0.00	0.00
ATOM	4257	HE1	HIE	X	283	63.802	58.072	48.611	0.00	0.00
ATOM	4258	NE2	HIE	X	283	61.984	58.250	47.451	0.00	0.00
ATOM	4259	HE2	HIE	X	283	62.407	58.477	46.562	0.00	0.00

ATOM	4260	CD2	HIE	X	283	60.691	58.269	47.834	0.00	0.00
ATOM	4261	HD2	HIE	X	283	59.826	58.420	47.205	0.00	0.00
ATOM	4262	C	HIE	X	283	57.943	55.761	50.926	0.00	0.00
ATOM	4263	O	HIE	X	283	58.335	55.438	52.067	0.00	0.00
ATOM	4264	N	VAL	X	284	56.678	55.591	50.546	0.00	0.00
ATOM	4265	H	VAL	X	284	56.505	55.716	49.559	0.00	0.00
ATOM	4266	CA	VAL	X	284	55.569	55.009	51.410	0.00	0.00
ATOM	4267	HA	VAL	X	284	56.052	54.927	52.384	0.00	0.00
ATOM	4268	CB	VAL	X	284	54.388	55.980	51.576	0.00	0.00
ATOM	4269	HB	VAL	X	284	53.560	55.409	51.997	0.00	0.00
ATOM	4270	CG1	VAL	X	284	54.749	57.150	52.532	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.651	57.581	52.098	0.00	0.00
ATOM	4272	HG12	VAL	X	284	53.879	57.805	52.583	0.00	0.00
ATOM	4273	HG13	VAL	X	284	55.071	56.826	53.521	0.00	0.00
ATOM	4274	CG2	VAL	X	284	53.874	56.532	50.222	0.00	0.00
ATOM	4275	HG21	VAL	X	284	53.351	55.766	49.649	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.716	56.958	49.677	0.00	0.00
ATOM	4277	HG23	VAL	X	284	53.134	57.305	50.433	0.00	0.00
ATOM	4278	C	VAL	X	284	55.093	53.566	51.088	0.00	0.00
ATOM	4279	O	VAL	X	284	54.481	52.941	52.006	0.00	0.00
ATOM	4280	N	LEU	X	285	55.434	53.029	49.935	0.00	0.00
ATOM	4281	H	LEU	X	285	56.001	53.655	49.381	0.00	0.00
ATOM	4282	CA	LEU	X	285	55.500	51.514	49.716	0.00	0.00
ATOM	4283	HA	LEU	X	285	54.473	51.149	49.731	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.027	51.272	48.226	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.282	51.721	47.568	0.00	0.00
ATOM	4286	HB3	LEU	X	285	56.966	51.797	48.050	0.00	0.00
ATOM	4287	CG	LEU	X	285	56.152	49.786	47.802	0.00	0.00
ATOM	4288	HG	LEU	X	285	56.604	49.207	48.607	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.676	49.230	47.601	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.119	49.367	48.528	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.778	48.193	47.283	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.302	49.811	46.758	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.978	49.545	46.545	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.116	48.480	46.363	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.445	49.978	45.699	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.910	50.111	46.512	0.00	0.00
ATOM	4297	C	LEU	X	285	56.414	50.895	50.794	0.00	0.00
ATOM	4298	O	LEU	X	285	57.532	51.342	50.903	0.00	0.00
ATOM	4299	N	PRO	X	286	55.960	49.904	51.564	0.00	0.00
ATOM	4300	CD	PRO	X	286	54.635	49.373	51.583	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.288	48.970	50.631	0.00	0.00
ATOM	4302	HD3	PRO	X	286	53.968	50.228	51.690	0.00	0.00
ATOM	4303	CG	PRO	X	286	54.584	48.453	52.773	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.893	47.461	52.444	0.00	0.00
ATOM	4305	HG3	PRO	X	286	53.672	48.423	53.369	0.00	0.00
ATOM	4306	CB	PRO	X	286	55.627	49.058	53.648	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.085	48.316	54.302	0.00	0.00
ATOM	4308	HB3	PRO	X	286	55.276	49.876	54.278	0.00	0.00
ATOM	4309	CA	PRO	X	286	56.705	49.513	52.713	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.128	50.390	53.203	0.00	0.00
ATOM	4311	C	PRO	X	286	57.720	48.373	52.498	0.00	0.00
ATOM	4312	O	PRO	X	286	57.502	47.545	51.612	0.00	0.00
ATOM	4313	N	GLN	X	287	58.772	48.405	53.336	0.00	0.00
ATOM	4314	H	GLN	X	287	58.833	49.296	53.808	0.00	0.00
ATOM	4315	CA	GLN	X	287	59.883	47.435	53.347	0.00	0.00
ATOM	4316	HA	GLN	X	287	59.942	46.844	52.434	0.00	0.00
ATOM	4317	CB	GLN	X	287	61.248	48.225	53.410	0.00	0.00
ATOM	4318	HB2	GLN	X	287	61.294	48.870	54.287	0.00	0.00
ATOM	4319	HB3	GLN	X	287	62.069	47.512	53.485	0.00	0.00
ATOM	4320	CG	GLN	X	287	61.470	49.212	52.175	0.00	0.00
ATOM	4321	HG2	GLN	X	287	61.472	48.620	51.260	0.00	0.00
ATOM	4322	HG3	GLN	X	287	60.666	49.947	52.156	0.00	0.00
ATOM	4323	CD	GLN	X	287	62.802	49.890	52.270	0.00	0.00
ATOM	4324	OE1	GLN	X	287	62.979	51.013	52.709	0.00	0.00
ATOM	4325	NE2	GLN	X	287	63.911	49.212	51.952	0.00	0.00
ATOM	4326	HE21	GLN	X	287	64.806	49.668	51.849	0.00	0.00

ATOM	4327	HE22	GLN	X	287	63.857	48.298	51.526	0.00	0.00
ATOM	4328	C	GLN	X	287	59.703	46.637	54.664	0.00	0.00
ATOM	4329	O	GLN	X	287	58.716	46.696	55.426	0.00	0.00
ATOM	4330	N	GLU	X	288	60.643	45.728	54.926	0.00	0.00
ATOM	4331	H	GLU	X	288	61.404	45.701	54.262	0.00	0.00
ATOM	4332	CA	GLU	X	288	60.730	44.812	56.078	0.00	0.00
ATOM	4333	HA	GLU	X	288	61.518	44.087	55.875	0.00	0.00
ATOM	4334	CB	GLU	X	288	60.961	45.530	57.527	0.00	0.00
ATOM	4335	HB2	GLU	X	288	60.087	46.097	57.848	0.00	0.00
ATOM	4336	HB3	GLU	X	288	61.112	44.718	58.238	0.00	0.00
ATOM	4337	CG	GLU	X	288	62.171	46.507	57.517	0.00	0.00
ATOM	4338	HG2	GLU	X	288	61.920	47.374	56.905	0.00	0.00
ATOM	4339	HG3	GLU	X	288	62.290	46.889	58.531	0.00	0.00
ATOM	4340	CD	GLU	X	288	63.388	45.766	57.101	0.00	0.00
ATOM	4341	OE1	GLU	X	288	63.946	44.865	57.756	0.00	0.00
ATOM	4342	OE2	GLU	X	288	63.903	46.138	56.010	0.00	0.00
ATOM	4343	C	GLU	X	288	59.478	43.947	56.130	0.00	0.00
ATOM	4344	O	GLU	X	288	58.915	43.491	57.154	0.00	0.00
ATOM	4345	N	SER	X	289	59.001	43.624	54.970	0.00	0.00
ATOM	4346	H	SER	X	289	59.579	43.918	54.195	0.00	0.00
ATOM	4347	CA	SER	X	289	57.662	43.057	54.700	0.00	0.00
ATOM	4348	HA	SER	X	289	57.351	42.387	55.502	0.00	0.00
ATOM	4349	CB	SER	X	289	56.693	44.215	54.597	0.00	0.00
ATOM	4350	HB2	SER	X	289	57.039	44.852	53.783	0.00	0.00
ATOM	4351	HB3	SER	X	289	55.731	43.741	54.400	0.00	0.00
ATOM	4352	OG	SER	X	289	56.529	45.112	55.679	0.00	0.00
ATOM	4353	HG	SER	X	289	57.281	45.700	55.577	0.00	0.00
ATOM	4354	C	SER	X	289	57.562	42.244	53.347	0.00	0.00
ATOM	4355	O	SER	X	289	58.410	42.523	52.467	0.00	0.00
ATOM	4356	N	VAL	X	290	56.486	41.493	53.177	0.00	0.00
ATOM	4357	H	VAL	X	290	55.856	41.345	53.952	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.148	40.840	51.910	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.491	41.531	51.140	0.00	0.00
ATOM	4360	CB	VAL	X	290	56.784	39.443	51.684	0.00	0.00
ATOM	4361	HB	VAL	X	290	56.327	38.897	50.858	0.00	0.00
ATOM	4362	CG1	VAL	X	290	58.266	39.480	51.487	0.00	0.00
ATOM	4363	HG11	VAL	X	290	58.791	39.871	52.358	0.00	0.00
ATOM	4364	HG12	VAL	X	290	58.543	38.445	51.283	0.00	0.00
ATOM	4365	HG13	VAL	X	290	58.532	40.037	50.588	0.00	0.00
ATOM	4366	CG2	VAL	X	290	56.472	38.490	52.871	0.00	0.00
ATOM	4367	HG21	VAL	X	290	56.861	38.804	53.840	0.00	0.00
ATOM	4368	HG22	VAL	X	290	56.954	37.515	52.801	0.00	0.00
ATOM	4369	HG23	VAL	X	290	55.397	38.320	52.934	0.00	0.00
ATOM	4370	C	VAL	X	290	54.615	40.779	51.875	0.00	0.00
ATOM	4371	O	VAL	X	290	53.945	40.574	52.946	0.00	0.00
ATOM	4372	N	PHE	X	291	54.085	40.832	50.656	0.00	0.00
ATOM	4373	H	PHE	X	291	54.684	40.984	49.858	0.00	0.00
ATOM	4374	CA	PHE	X	291	52.576	40.763	50.525	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.295	40.605	49.484	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.079	39.436	51.035	0.00	0.00
ATOM	4377	HB2	PHE	X	291	52.960	38.827	51.237	0.00	0.00
ATOM	4378	HB3	PHE	X	291	51.533	39.641	51.956	0.00	0.00
ATOM	4379	CG	PHE	X	291	51.169	38.618	50.193	0.00	0.00
ATOM	4380	CD1	PHE	X	291	49.898	39.105	49.881	0.00	0.00
ATOM	4381	HD1	PHE	X	291	49.681	40.107	50.222	0.00	0.00
ATOM	4382	CE1	PHE	X	291	48.989	38.359	49.140	0.00	0.00
ATOM	4383	HE1	PHE	X	291	48.065	38.806	48.804	0.00	0.00
ATOM	4384	CZ	PHE	X	291	49.332	37.009	48.834	0.00	0.00
ATOM	4385	HZ	PHE	X	291	48.665	36.453	48.191	0.00	0.00
ATOM	4386	CE2	PHE	X	291	50.484	36.437	49.353	0.00	0.00
ATOM	4387	HE2	PHE	X	291	50.616	35.390	49.125	0.00	0.00
ATOM	4388	CD2	PHE	X	291	51.455	37.288	50.009	0.00	0.00
ATOM	4389	HD2	PHE	X	291	52.234	36.842	50.609	0.00	0.00
ATOM	4390	C	PHE	X	291	51.887	42.058	51.086	0.00	0.00
ATOM	4391	O	PHE	X	291	50.787	41.966	51.656	0.00	0.00
ATOM	4392	N	ARG	X	292	52.536	43.217	51.007	0.00	0.00
ATOM	4393	H	ARG	X	292	53.387	43.146	50.469	0.00	0.00

ATOM	4394	CA	ARG	X	292	52.223	44.582	51.548	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.153	44.634	51.752	0.00	0.00
ATOM	4396	CB	ARG	X	292	52.991	44.806	52.861	0.00	0.00
ATOM	4397	HB2	ARG	X	292	54.055	44.609	52.731	0.00	0.00
ATOM	4398	HB3	ARG	X	292	52.937	45.834	53.220	0.00	0.00
ATOM	4399	CG	ARG	X	292	52.443	43.992	54.040	0.00	0.00
ATOM	4400	HG2	ARG	X	292	52.483	42.956	53.704	0.00	0.00
ATOM	4401	HG3	ARG	X	292	52.943	44.306	54.956	0.00	0.00
ATOM	4402	CD	ARG	X	292	51.001	44.136	54.442	0.00	0.00
ATOM	4403	HD2	ARG	X	292	50.769	45.093	54.909	0.00	0.00
ATOM	4404	HD3	ARG	X	292	50.401	44.183	53.532	0.00	0.00
ATOM	4405	NE	ARG	X	292	50.525	43.003	55.269	0.00	0.00
ATOM	4406	HE	ARG	X	292	51.093	42.170	55.326	0.00	0.00
ATOM	4407	CZ	ARG	X	292	49.542	43.069	56.158	0.00	0.00
ATOM	4408	NH1	ARG	X	292	48.918	44.139	56.419	0.00	0.00
ATOM	4409	HH11	ARG	X	292	49.061	44.974	55.869	0.00	0.00
ATOM	4410	HH12	ARG	X	292	48.130	44.172	57.050	0.00	0.00
ATOM	4411	NH2	ARG	X	292	49.315	41.999	56.841	0.00	0.00
ATOM	4412	HH21	ARG	X	292	49.938	41.217	56.701	0.00	0.00
ATOM	4413	HH22	ARG	X	292	48.716	42.046	57.653	0.00	0.00
ATOM	4414	C	ARG	X	292	52.423	45.691	50.569	0.00	0.00
ATOM	4415	O	ARG	X	292	53.222	45.542	49.640	0.00	0.00
ATOM	4416	N	PHE	X	293	51.676	46.831	50.691	0.00	0.00
ATOM	4417	H	PHE	X	293	51.027	47.077	51.424	0.00	0.00
ATOM	4418	CA	PHE	X	293	51.616	47.796	49.583	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.545	47.740	49.016	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.479	47.432	48.642	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.587	47.803	49.146	0.00	0.00
ATOM	4422	HB3	PHE	X	293	50.632	47.854	47.649	0.00	0.00
ATOM	4423	CG	PHE	X	293	50.288	45.935	48.402	0.00	0.00
ATOM	4424	CD1	PHE	X	293	51.149	45.269	47.582	0.00	0.00
ATOM	4425	HD1	PHE	X	293	51.860	45.912	47.084	0.00	0.00
ATOM	4426	CE1	PHE	X	293	51.174	43.848	47.464	0.00	0.00
ATOM	4427	HE1	PHE	X	293	52.010	43.448	46.908	0.00	0.00
ATOM	4428	CZ	PHE	X	293	50.361	43.101	48.270	0.00	0.00
ATOM	4429	HZ	PHE	X	293	50.433	42.025	48.330	0.00	0.00
ATOM	4430	CE2	PHE	X	293	49.442	43.747	49.100	0.00	0.00
ATOM	4431	HE2	PHE	X	293	48.849	43.164	49.789	0.00	0.00
ATOM	4432	CD2	PHE	X	293	49.400	45.133	49.189	0.00	0.00
ATOM	4433	HD2	PHE	X	293	48.689	45.611	49.846	0.00	0.00
ATOM	4434	C	PHE	X	293	51.590	49.262	50.057	0.00	0.00
ATOM	4435	O	PHE	X	293	51.618	49.553	51.270	0.00	0.00
ATOM	4436	N	SER	X	294	51.581	50.223	49.142	0.00	0.00
ATOM	4437	H	SER	X	294	51.514	49.959	48.170	0.00	0.00
ATOM	4438	CA	SER	X	294	51.584	51.669	49.495	0.00	0.00
ATOM	4439	HA	SER	X	294	52.234	51.772	50.363	0.00	0.00
ATOM	4440	CB	SER	X	294	52.155	52.486	48.304	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.290	53.492	48.700	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.131	52.107	48.000	0.00	0.00
ATOM	4443	OG	SER	X	294	51.304	52.416	47.193	0.00	0.00
ATOM	4444	HG	SER	X	294	51.552	53.117	46.586	0.00	0.00
ATOM	4445	C	SER	X	294	50.253	52.182	50.004	0.00	0.00
ATOM	4446	O	SER	X	294	50.196	52.845	51.059	0.00	0.00
ATOM	4447	N	PHE	X	295	49.177	51.891	49.224	0.00	0.00
ATOM	4448	H	PHE	X	295	49.375	51.362	48.387	0.00	0.00
ATOM	4449	CA	PHE	X	295	47.883	52.192	49.668	0.00	0.00
ATOM	4450	HA	PHE	X	295	47.867	52.311	50.752	0.00	0.00
ATOM	4451	CB	PHE	X	295	47.514	53.520	48.973	0.00	0.00
ATOM	4452	HB2	PHE	X	295	47.765	53.354	47.925	0.00	0.00
ATOM	4453	HB3	PHE	X	295	46.453	53.706	49.136	0.00	0.00
ATOM	4454	CG	PHE	X	295	48.190	54.735	49.521	0.00	0.00
ATOM	4455	CD1	PHE	X	295	47.540	55.574	50.462	0.00	0.00
ATOM	4456	HD1	PHE	X	295	46.550	55.254	50.753	0.00	0.00
ATOM	4457	CE1	PHE	X	295	48.163	56.720	50.959	0.00	0.00
ATOM	4458	HE1	PHE	X	295	47.621	57.329	51.667	0.00	0.00
ATOM	4459	CZ	PHE	X	295	49.509	57.006	50.547	0.00	0.00
ATOM	4460	HZ	PHE	X	295	50.013	57.900	50.883	0.00	0.00

ATOM	4461	CE2	PHE	X	295	50.167	56.184	49.616	0.00	0.00
ATOM	4462	HE2	PHE	X	295	51.163	56.273	49.209	0.00	0.00
ATOM	4463	CD2	PHE	X	295	49.492	55.066	49.073	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.055	54.427	48.408	0.00	0.00
ATOM	4465	C	PHE	X	295	46.844	51.010	49.325	0.00	0.00
ATOM	4466	O	PHE	X	295	46.924	50.510	48.244	0.00	0.00
ATOM	4467	N	VAL	X	296	45.904	50.693	50.273	0.00	0.00
ATOM	4468	H	VAL	X	296	45.811	51.219	51.130	0.00	0.00
ATOM	4469	CA	VAL	X	296	44.852	49.617	50.071	0.00	0.00
ATOM	4470	HA	VAL	X	296	44.715	49.300	49.037	0.00	0.00
ATOM	4471	CB	VAL	X	296	45.370	48.303	50.767	0.00	0.00
ATOM	4472	HB	VAL	X	296	44.604	47.557	50.555	0.00	0.00
ATOM	4473	CG1	VAL	X	296	46.703	47.775	50.211	0.00	0.00
ATOM	4474	HG11	VAL	X	296	46.760	47.749	49.123	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.568	48.366	50.512	0.00	0.00
ATOM	4476	HG13	VAL	X	296	46.983	46.761	50.498	0.00	0.00
ATOM	4477	CG2	VAL	X	296	45.625	48.478	52.266	0.00	0.00
ATOM	4478	HG21	VAL	X	296	46.452	49.149	52.498	0.00	0.00
ATOM	4479	HG22	VAL	X	296	45.741	47.468	52.660	0.00	0.00
ATOM	4480	HG23	VAL	X	296	44.686	48.895	52.629	0.00	0.00
ATOM	4481	C	VAL	X	296	43.581	50.159	50.693	0.00	0.00
ATOM	4482	O	VAL	X	296	43.607	51.195	51.369	0.00	0.00
ATOM	4483	N	PRO	X	297	42.470	49.524	50.399	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.303	48.495	49.385	0.00	0.00
ATOM	4485	HD2	PRO	X	297	42.827	47.566	49.612	0.00	0.00
ATOM	4486	HD3	PRO	X	297	42.482	48.942	48.408	0.00	0.00
ATOM	4487	CG	PRO	X	297	40.800	48.185	49.308	0.00	0.00
ATOM	4488	HG2	PRO	X	297	40.518	47.137	49.410	0.00	0.00
ATOM	4489	HB3	PRO	X	297	40.253	48.503	48.420	0.00	0.00
ATOM	4490	CB	PRO	X	297	40.194	48.851	50.525	0.00	0.00
ATOM	4491	HB2	PRO	X	297	40.102	48.123	51.331	0.00	0.00
ATOM	4492	HB3	PRO	X	297	39.241	49.332	50.305	0.00	0.00
ATOM	4493	CA	PRO	X	297	41.185	49.895	50.945	0.00	0.00
ATOM	4494	HA	PRO	X	297	40.843	50.769	50.390	0.00	0.00
ATOM	4495	C	PRO	X	297	41.131	50.135	52.478	0.00	0.00
ATOM	4496	O	PRO	X	297	42.000	49.736	53.258	0.00	0.00
ATOM	4497	N	VAL	X	298	40.055	50.831	52.868	0.00	0.00
ATOM	4498	H	VAL	X	298	39.353	51.070	52.183	0.00	0.00
ATOM	4499	CA	VAL	X	298	39.945	51.499	54.183	0.00	0.00
ATOM	4500	HA	VAL	X	298	40.696	51.155	54.894	0.00	0.00
ATOM	4501	CB	VAL	X	298	40.311	53.016	54.174	0.00	0.00
ATOM	4502	HB	VAL	X	298	39.579	53.551	53.570	0.00	0.00
ATOM	4503	CG1	VAL	X	298	40.326	53.709	55.596	0.00	0.00
ATOM	4504	HG11	VAL	X	298	41.067	53.371	56.320	0.00	0.00
ATOM	4505	HG12	VAL	X	298	40.480	54.772	55.408	0.00	0.00
ATOM	4506	HG13	VAL	X	298	39.316	53.544	55.971	0.00	0.00
ATOM	4507	CG2	VAL	X	298	41.620	53.257	53.501	0.00	0.00
ATOM	4508	HG21	VAL	X	298	41.679	52.771	52.527	0.00	0.00
ATOM	4509	HG22	VAL	X	298	42.482	52.907	54.069	0.00	0.00
ATOM	4510	HG23	VAL	X	298	41.747	54.319	53.291	0.00	0.00
ATOM	4511	C	VAL	X	298	38.497	51.409	54.659	0.00	0.00
ATOM	4512	O	VAL	X	298	37.547	51.770	53.955	0.00	0.00
ATOM	4513	N	VAL	X	299	38.380	50.943	55.884	0.00	0.00
ATOM	4514	H	VAL	X	299	39.199	50.713	56.428	0.00	0.00
ATOM	4515	CA	VAL	X	299	37.071	50.953	56.632	0.00	0.00
ATOM	4516	HA	VAL	X	299	36.224	50.793	55.965	0.00	0.00
ATOM	4517	CB	VAL	X	299	37.008	49.828	57.735	0.00	0.00
ATOM	4518	HB	VAL	X	299	37.664	50.135	58.550	0.00	0.00
ATOM	4519	CG1	VAL	X	299	35.630	49.841	58.406	0.00	0.00
ATOM	4520	HG11	VAL	X	299	35.642	49.311	59.358	0.00	0.00
ATOM	4521	HG12	VAL	X	299	35.277	50.861	58.556	0.00	0.00
ATOM	4522	HG13	VAL	X	299	34.846	49.467	57.747	0.00	0.00
ATOM	4523	CG2	VAL	X	299	37.323	48.385	57.118	0.00	0.00
ATOM	4524	HG21	VAL	X	299	36.460	47.971	56.596	0.00	0.00
ATOM	4525	HG22	VAL	X	299	37.468	47.683	57.939	0.00	0.00
ATOM	4526	HG23	VAL	X	299	38.223	48.391	56.503	0.00	0.00
ATOM	4527	C	VAL	X	299	36.995	52.423	57.183	0.00	0.00

ATOM	4528	O	VAL	X	299	37.569	52.714	58.250	0.00	0.00
ATOM	4529	N	ASP	X	300	36.464	53.410	56.399	0.00	0.00
ATOM	4530	H	ASP	X	300	35.999	53.113	55.553	0.00	0.00
ATOM	4531	CA	ASP	X	300	36.064	54.677	56.949	0.00	0.00
ATOM	4532	HA	ASP	X	300	36.892	55.024	57.568	0.00	0.00
ATOM	4533	CB	ASP	X	300	35.935	55.689	55.828	0.00	0.00
ATOM	4534	HB2	ASP	X	300	35.785	56.624	56.368	0.00	0.00
ATOM	4535	HB3	ASP	X	300	36.759	55.837	55.131	0.00	0.00
ATOM	4536	CG	ASP	X	300	34.722	55.500	54.948	0.00	0.00
ATOM	4537	OD1	ASP	X	300	34.033	56.470	54.517	0.00	0.00
ATOM	4538	OD2	ASP	X	300	34.387	54.322	54.683	0.00	0.00
ATOM	4539	C	ASP	X	300	34.793	54.680	57.785	0.00	0.00
ATOM	4540	O	ASP	X	300	34.467	55.724	58.398	0.00	0.00
ATOM	4541	N	GLY	X	301	34.087	53.586	57.874	0.00	0.00
ATOM	4542	H	GLY	X	301	34.360	52.772	57.343	0.00	0.00
ATOM	4543	CA	GLY	X	301	32.780	53.562	58.580	0.00	0.00
ATOM	4544	HA2	GLY	X	301	32.651	52.543	58.944	0.00	0.00
ATOM	4545	HA3	GLY	X	301	32.798	54.317	59.366	0.00	0.00
ATOM	4546	C	GLY	X	301	31.577	53.815	57.665	0.00	0.00
ATOM	4547	O	GLY	X	301	30.457	53.730	58.107	0.00	0.00
ATOM	4548	N	ASP	X	302	31.799	54.089	56.346	0.00	0.00
ATOM	4549	H	ASP	X	302	32.768	54.193	56.078	0.00	0.00
ATOM	4550	CA	ASP	X	302	30.696	54.301	55.358	0.00	0.00
ATOM	4551	HA	ASP	X	302	29.729	54.040	55.788	0.00	0.00
ATOM	4552	CB	ASP	X	302	30.766	55.781	55.076	0.00	0.00
ATOM	4553	HB2	ASP	X	302	30.876	56.443	55.934	0.00	0.00
ATOM	4554	HB3	ASP	X	302	31.681	55.902	54.497	0.00	0.00
ATOM	4555	CG	ASP	X	302	29.584	56.239	54.205	0.00	0.00
ATOM	4556	OD1	ASP	X	302	29.939	56.408	52.998	0.00	0.00
ATOM	4557	OD2	ASP	X	302	28.464	56.502	54.586	0.00	0.00
ATOM	4558	C	ASP	X	302	30.854	53.482	54.081	0.00	0.00
ATOM	4559	O	ASP	X	302	29.850	53.010	53.533	0.00	0.00
ATOM	4560	N	PHE	X	303	32.027	53.204	53.589	0.00	0.00
ATOM	4561	H	PHE	X	303	32.836	53.455	54.140	0.00	0.00
ATOM	4562	CA	PHE	X	303	32.212	52.141	52.514	0.00	0.00
ATOM	4563	HA	PHE	X	303	31.401	52.176	51.787	0.00	0.00
ATOM	4564	CB	PHE	X	303	33.530	52.311	51.769	0.00	0.00
ATOM	4565	HB2	PHE	X	303	33.616	53.294	51.306	0.00	0.00
ATOM	4566	HB3	PHE	X	303	34.224	52.187	52.601	0.00	0.00
ATOM	4567	CG	PHE	X	303	33.771	51.246	50.710	0.00	0.00
ATOM	4568	CD1	PHE	X	303	34.494	50.042	51.043	0.00	0.00
ATOM	4569	HD1	PHE	X	303	35.031	49.856	51.962	0.00	0.00
ATOM	4570	CE1	PHE	X	303	34.431	48.953	50.193	0.00	0.00
ATOM	4571	HE1	PHE	X	303	35.056	48.104	50.427	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.654	48.973	48.984	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.588	48.102	48.349	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.075	50.265	48.598	0.00	0.00
ATOM	4575	HE2	PHE	X	303	32.691	50.387	47.596	0.00	0.00
ATOM	4576	CD2	PHE	X	303	33.161	51.354	49.469	0.00	0.00
ATOM	4577	HD2	PHE	X	303	32.655	52.239	49.114	0.00	0.00
ATOM	4578	C	PHE	X	303	32.133	50.755	53.154	0.00	0.00
ATOM	4579	O	PHE	X	303	31.520	49.891	52.579	0.00	0.00
ATOM	4580	N	LEU	X	304	32.636	50.603	54.389	0.00	0.00
ATOM	4581	H	LEU	X	304	33.002	51.426	54.844	0.00	0.00
ATOM	4582	CA	LEU	X	304	32.395	49.424	55.204	0.00	0.00
ATOM	4583	HA	LEU	X	304	31.470	49.010	54.803	0.00	0.00
ATOM	4584	CB	LEU	X	304	33.594	48.399	54.989	0.00	0.00
ATOM	4585	HB2	LEU	X	304	34.525	48.965	55.023	0.00	0.00
ATOM	4586	HB3	LEU	X	304	33.569	47.638	55.770	0.00	0.00
ATOM	4587	CG	LEU	X	304	33.672	47.632	53.649	0.00	0.00
ATOM	4588	HG	LEU	X	304	33.919	48.351	52.868	0.00	0.00
ATOM	4589	CD1	LEU	X	304	34.871	46.790	53.619	0.00	0.00
ATOM	4590	HD11	LEU	X	304	34.919	46.178	52.718	0.00	0.00
ATOM	4591	HD12	LEU	X	304	34.737	46.199	54.525	0.00	0.00
ATOM	4592	HD13	LEU	X	304	35.763	47.408	53.713	0.00	0.00
ATOM	4593	CD2	LEU	X	304	32.427	46.794	53.329	0.00	0.00
ATOM	4594	HD21	LEU	X	304	32.386	45.877	53.917	0.00	0.00

ATOM	4595	HD22	LEU	X	304	31.512	47.371	53.461	0.00	0.00
ATOM	4596	HD23	LEU	X	304	32.540	46.435	52.306	0.00	0.00
ATOM	4597	C	LEU	X	304	32.246	49.911	56.725	0.00	0.00
ATOM	4598	O	LEU	X	304	32.872	50.918	57.123	0.00	0.00
ATOM	4599	N	SER	X	305	31.425	49.183	57.498	0.00	0.00
ATOM	4600	H	SER	X	305	31.004	48.297	57.258	0.00	0.00
ATOM	4601	CA	SER	X	305	31.101	49.472	58.894	0.00	0.00
ATOM	4602	HA	SER	X	305	31.243	50.552	58.930	0.00	0.00
ATOM	4603	CB	SER	X	305	29.668	49.015	59.266	0.00	0.00
ATOM	4604	HB2	SER	X	305	29.556	47.934	59.181	0.00	0.00
ATOM	4605	HB3	SER	X	305	29.542	49.315	60.306	0.00	0.00
ATOM	4606	OG	SER	X	305	28.607	49.680	58.538	0.00	0.00
ATOM	4607	HG	SER	X	305	27.783	49.492	58.992	0.00	0.00
ATOM	4608	C	SER	X	305	32.033	48.913	59.985	0.00	0.00
ATOM	4609	O	SER	X	305	32.137	49.497	61.045	0.00	0.00
ATOM	4610	N	ASP	X	306	32.922	48.029	59.637	0.00	0.00
ATOM	4611	H	ASP	X	306	33.015	47.784	58.662	0.00	0.00
ATOM	4612	CA	ASP	X	306	33.842	47.231	60.485	0.00	0.00
ATOM	4613	HA	ASP	X	306	34.404	47.870	61.166	0.00	0.00
ATOM	4614	CB	ASP	X	306	33.021	46.200	61.295	0.00	0.00
ATOM	4615	HB2	ASP	X	306	32.044	46.638	61.497	0.00	0.00
ATOM	4616	HB3	ASP	X	306	32.912	45.294	60.697	0.00	0.00
ATOM	4617	CG	ASP	X	306	33.599	45.863	62.666	0.00	0.00
ATOM	4618	OD1	ASP	X	306	34.641	45.130	62.703	0.00	0.00
ATOM	4619	OD2	ASP	X	306	33.088	46.370	63.706	0.00	0.00
ATOM	4620	C	ASP	X	306	34.855	46.493	59.557	0.00	0.00
ATOM	4621	O	ASP	X	306	34.836	46.547	58.328	0.00	0.00
ATOM	4622	N	THR	X	307	35.847	45.839	60.200	0.00	0.00
ATOM	4623	H	THR	X	307	35.726	45.660	61.187	0.00	0.00
ATOM	4624	CA	THR	X	307	36.918	45.175	59.483	0.00	0.00
ATOM	4625	HA	THR	X	307	37.475	45.897	58.886	0.00	0.00
ATOM	4626	CB	THR	X	307	37.905	44.657	60.513	0.00	0.00
ATOM	4627	HB	THR	X	307	37.531	43.880	61.180	0.00	0.00
ATOM	4628	CG2	THR	X	307	39.125	44.062	59.818	0.00	0.00
ATOM	4629	HG21	THR	X	307	38.909	43.166	59.237	0.00	0.00
ATOM	4630	HG22	THR	X	307	39.835	43.782	60.596	0.00	0.00
ATOM	4631	HG23	THR	X	307	39.677	44.701	59.128	0.00	0.00
ATOM	4632	OG1	THR	X	307	38.279	45.790	61.276	0.00	0.00
ATOM	4633	HG1	THR	X	307	38.824	45.340	61.925	0.00	0.00
ATOM	4634	C	THR	X	307	36.325	44.082	58.544	0.00	0.00
ATOM	4635	O	THR	X	307	35.433	43.314	58.975	0.00	0.00
ATOM	4636	N	PRO	X	308	36.788	43.880	57.283	0.00	0.00
ATOM	4637	CD	PRO	X	308	37.916	44.577	56.733	0.00	0.00
ATOM	4638	HD2	PRO	X	308	38.915	44.372	57.117	0.00	0.00
ATOM	4639	HD3	PRO	X	308	37.744	45.653	56.768	0.00	0.00
ATOM	4640	CG	PRO	X	308	37.772	44.311	55.221	0.00	0.00
ATOM	4641	HG2	PRO	X	308	38.710	44.439	54.681	0.00	0.00
ATOM	4642	HG3	PRO	X	308	37.177	45.082	54.730	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.062	42.983	55.065	0.00	0.00
ATOM	4644	HB2	PRO	X	308	37.811	42.197	54.972	0.00	0.00
ATOM	4645	HB3	PRO	X	308	36.438	43.008	54.171	0.00	0.00
ATOM	4646	CA	PRO	X	308	36.250	42.873	56.355	0.00	0.00
ATOM	4647	HA	PRO	X	308	35.223	43.222	56.244	0.00	0.00
ATOM	4648	C	PRO	X	308	36.054	41.355	56.829	0.00	0.00
ATOM	4649	O	PRO	X	308	34.985	40.816	56.697	0.00	0.00
ATOM	4650	N	GLU	X	309	37.092	40.795	57.508	0.00	0.00
ATOM	4651	H	GLU	X	309	37.979	41.274	57.563	0.00	0.00
ATOM	4652	CA	GLU	X	309	37.102	39.395	58.075	0.00	0.00
ATOM	4653	HA	GLU	X	309	37.040	38.788	57.172	0.00	0.00
ATOM	4654	CB	GLU	X	309	38.418	39.072	58.772	0.00	0.00
ATOM	4655	HB2	GLU	X	309	38.433	38.027	59.085	0.00	0.00
ATOM	4656	HB3	GLU	X	309	39.159	39.109	57.973	0.00	0.00
ATOM	4657	CG	GLU	X	309	38.936	40.066	59.839	0.00	0.00
ATOM	4658	HG2	GLU	X	309	38.874	41.057	59.389	0.00	0.00
ATOM	4659	HG3	GLU	X	309	38.183	40.098	60.627	0.00	0.00
ATOM	4660	CD	GLU	X	309	40.396	39.945	60.382	0.00	0.00
ATOM	4661	OE1	GLU	X	309	40.516	39.700	61.607	0.00	0.00

ATOM	4662	OE2	GLU	X	309	41.427	40.037	59.661	0.00	0.00
ATOM	4663	C	GLU	X	309	35.892	39.103	59.027	0.00	0.00
ATOM	4664	O	GLU	X	309	35.353	38.006	59.056	0.00	0.00
ATOM	4665	N	ALA	X	310	35.602	40.151	59.786	0.00	0.00
ATOM	4666	H	ALA	X	310	36.135	40.992	59.610	0.00	0.00
ATOM	4667	CA	ALA	X	310	34.597	40.264	60.873	0.00	0.00
ATOM	4668	HA	ALA	X	310	34.510	39.337	61.441	0.00	0.00
ATOM	4669	CB	ALA	X	310	35.015	41.368	61.802	0.00	0.00
ATOM	4670	HB1	ALA	X	310	36.059	41.285	62.105	0.00	0.00
ATOM	4671	HB2	ALA	X	310	34.460	41.404	62.739	0.00	0.00
ATOM	4672	HB3	ALA	X	310	34.955	42.373	61.384	0.00	0.00
ATOM	4673	C	ALA	X	310	33.193	40.575	60.217	0.00	0.00
ATOM	4674	O	ALA	X	310	32.194	40.170	60.700	0.00	0.00
ATOM	4675	N	LEU	X	311	33.143	41.363	59.140	0.00	0.00
ATOM	4676	H	LEU	X	311	33.987	41.770	58.764	0.00	0.00
ATOM	4677	CA	LEU	X	311	31.941	41.622	58.227	0.00	0.00
ATOM	4678	HA	LEU	X	311	31.073	41.820	58.857	0.00	0.00
ATOM	4679	CB	LEU	X	311	32.274	42.898	57.357	0.00	0.00
ATOM	4680	HB2	LEU	X	311	33.254	42.688	56.929	0.00	0.00
ATOM	4681	HB3	LEU	X	311	31.616	42.888	56.488	0.00	0.00
ATOM	4682	CG	LEU	X	311	32.283	44.174	58.152	0.00	0.00
ATOM	4683	HG	LEU	X	311	33.177	44.228	58.773	0.00	0.00
ATOM	4684	CD1	LEU	X	311	32.344	45.347	57.077	0.00	0.00
ATOM	4685	HD11	LEU	X	311	33.258	45.342	56.483	0.00	0.00
ATOM	4686	HD12	LEU	X	311	32.326	46.303	57.600	0.00	0.00
ATOM	4687	HD13	LEU	X	311	31.554	45.266	56.330	0.00	0.00
ATOM	4688	CD2	LEU	X	311	31.122	44.369	59.069	0.00	0.00
ATOM	4689	HD21	LEU	X	311	31.246	43.886	60.039	0.00	0.00
ATOM	4690	HD22	LEU	X	311	30.881	45.413	59.273	0.00	0.00
ATOM	4691	HD23	LEU	X	311	30.294	43.969	58.485	0.00	0.00
ATOM	4692	C	LEU	X	311	31.551	40.312	57.519	0.00	0.00
ATOM	4693	O	LEU	X	311	30.391	40.035	57.275	0.00	0.00
ATOM	4694	N	ILE	X	312	32.514	39.528	57.069	0.00	0.00
ATOM	4695	H	ILE	X	312	33.477	39.820	57.160	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.382	38.232	56.436	0.00	0.00
ATOM	4697	HA	ILE	X	312	31.615	38.368	55.673	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.601	37.693	55.722	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.474	37.766	56.371	0.00	0.00
ATOM	4700	CG2	ILE	X	312	33.545	36.229	55.312	0.00	0.00
ATOM	4701	HG21	ILE	X	312	34.384	35.815	54.753	0.00	0.00
ATOM	4702	HG22	ILE	X	312	32.613	35.943	54.823	0.00	0.00
ATOM	4703	HG23	ILE	X	312	33.569	35.636	56.226	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.832	38.617	54.422	0.00	0.00
ATOM	4705	HG12	ILE	X	312	33.107	38.368	53.647	0.00	0.00
ATOM	4706	HG13	ILE	X	312	33.714	39.672	54.670	0.00	0.00
ATOM	4707	CD1	ILE	X	312	35.263	38.496	53.930	0.00	0.00
ATOM	4708	HD11	ILE	X	312	35.324	37.502	53.487	0.00	0.00
ATOM	4709	HD12	ILE	X	312	35.895	38.657	54.803	0.00	0.00
ATOM	4710	HD13	ILE	X	312	35.486	39.313	53.243	0.00	0.00
ATOM	4711	C	ILE	X	312	31.705	37.332	57.523	0.00	0.00
ATOM	4712	O	ILE	X	312	30.902	36.529	57.132	0.00	0.00
ATOM	4713	N	ASN	X	313	31.972	37.566	58.763	0.00	0.00
ATOM	4714	H	ASN	X	313	32.726	38.229	58.875	0.00	0.00
ATOM	4715	CA	ASN	X	313	31.441	36.744	59.850	0.00	0.00
ATOM	4716	HA	ASN	X	313	31.204	35.717	59.573	0.00	0.00
ATOM	4717	CB	ASN	X	313	32.422	36.742	61.099	0.00	0.00
ATOM	4718	HB2	ASN	X	313	33.421	36.682	60.667	0.00	0.00
ATOM	4719	HB3	ASN	X	313	32.352	37.616	61.747	0.00	0.00
ATOM	4720	CG	ASN	X	313	32.240	35.548	62.020	0.00	0.00
ATOM	4721	OD1	ASN	X	313	31.532	35.534	63.035	0.00	0.00
ATOM	4722	ND2	ASN	X	313	32.890	34.400	61.685	0.00	0.00
ATOM	4723	HD21	ASN	X	313	32.851	33.527	62.191	0.00	0.00
ATOM	4724	HD22	ASN	X	313	33.439	34.423	60.838	0.00	0.00
ATOM	4725	C	ASN	X	313	29.990	37.251	60.191	0.00	0.00
ATOM	4726	O	ASN	X	313	29.073	36.454	60.425	0.00	0.00
ATOM	4727	N	ALA	X	314	29.708	38.550	59.970	0.00	0.00
ATOM	4728	H	ALA	X	314	30.550	39.100	60.065	0.00	0.00

ATOM	4729	CA	ALA	X	314	28.483	39.214	60.383	0.00	0.00
ATOM	4730	HA	ALA	X	314	27.973	38.665	61.176	0.00	0.00
ATOM	4731	CB	ALA	X	314	28.917	40.516	61.080	0.00	0.00
ATOM	4732	HB1	ALA	X	314	29.663	40.307	61.847	0.00	0.00
ATOM	4733	HB2	ALA	X	314	28.000	40.958	61.468	0.00	0.00
ATOM	4734	HB3	ALA	X	314	29.345	41.248	60.395	0.00	0.00
ATOM	4735	C	ALA	X	314	27.418	39.313	59.261	0.00	0.00
ATOM	4736	O	ALA	X	314	26.374	39.906	59.466	0.00	0.00
ATOM	4737	N	GLY	X	315	27.725	38.752	58.054	0.00	0.00
ATOM	4738	H	GLY	X	315	28.641	38.329	58.006	0.00	0.00
ATOM	4739	CA	GLY	X	315	26.933	38.780	56.787	0.00	0.00
ATOM	4740	HA2	GLY	X	315	26.090	39.462	56.900	0.00	0.00
ATOM	4741	HA3	GLY	X	315	27.629	39.179	56.049	0.00	0.00
ATOM	4742	C	GLY	X	315	26.508	37.409	56.408	0.00	0.00
ATOM	4743	O	GLY	X	315	27.298	36.421	56.502	0.00	0.00
ATOM	4744	N	ASP	X	316	25.264	37.296	55.884	0.00	0.00
ATOM	4745	H	ASP	X	316	24.681	38.113	55.995	0.00	0.00
ATOM	4746	CA	ASP	X	316	24.652	36.129	55.216	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.048	35.270	55.757	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.151	36.194	55.371	0.00	0.00
ATOM	4749	HB2	ASP	X	316	22.812	36.310	56.400	0.00	0.00
ATOM	4750	HB3	ASP	X	316	22.811	36.945	54.658	0.00	0.00
ATOM	4751	CG	ASP	X	316	22.557	34.918	54.919	0.00	0.00
ATOM	4752	OD1	ASP	X	316	21.371	35.057	54.527	0.00	0.00
ATOM	4753	OD2	ASP	X	316	23.118	33.840	55.012	0.00	0.00
ATOM	4754	C	ASP	X	316	25.260	36.071	53.799	0.00	0.00
ATOM	4755	O	ASP	X	316	25.728	37.060	53.306	0.00	0.00
ATOM	4756	N	PHE	X	317	25.314	34.878	53.158	0.00	0.00
ATOM	4757	H	PHE	X	317	24.883	34.080	53.602	0.00	0.00
ATOM	4758	CA	PHE	X	317	25.764	34.660	51.764	0.00	0.00
ATOM	4759	HA	PHE	X	317	25.595	35.579	51.203	0.00	0.00
ATOM	4760	CB	PHE	X	317	27.237	34.362	51.713	0.00	0.00
ATOM	4761	HB2	PHE	X	317	27.501	33.437	52.225	0.00	0.00
ATOM	4762	HB3	PHE	X	317	27.419	34.174	50.654	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.172	35.452	52.108	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.533	36.496	51.203	0.00	0.00
ATOM	4765	HD1	PHE	X	317	28.126	36.488	50.203	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.407	37.535	51.595	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.522	38.401	50.961	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.910	37.583	52.891	0.00	0.00
ATOM	4769	HZ	PHE	X	317	30.451	38.391	53.361	0.00	0.00
ATOM	4770	CE2	PHE	X	317	29.612	36.455	53.721	0.00	0.00
ATOM	4771	HE2	PHE	X	317	29.851	36.466	54.774	0.00	0.00
ATOM	4772	CD2	PHE	X	317	28.768	35.404	53.373	0.00	0.00
ATOM	4773	HD2	PHE	X	317	28.402	34.697	54.102	0.00	0.00
ATOM	4774	C	PHE	X	317	24.911	33.549	51.072	0.00	0.00
ATOM	4775	O	PHE	X	317	25.349	33.060	50.023	0.00	0.00
ATOM	4776	N	HIE	X	318	23.823	33.091	51.741	0.00	0.00
ATOM	4777	H	HIE	X	318	23.380	33.826	52.274	0.00	0.00
ATOM	4778	CA	HIE	X	318	22.980	31.947	51.287	0.00	0.00
ATOM	4779	HA	HIE	X	318	23.638	31.078	51.307	0.00	0.00
ATOM	4780	CB	HIE	X	318	21.891	31.655	52.371	0.00	0.00
ATOM	4781	HB2	HIE	X	318	22.317	31.937	53.334	0.00	0.00
ATOM	4782	HB3	HIE	X	318	21.040	32.287	52.118	0.00	0.00
ATOM	4783	CG	HIE	X	318	21.432	30.209	52.372	0.00	0.00
ATOM	4784	ND1	HIE	X	318	21.469	29.345	51.275	0.00	0.00
ATOM	4785	CE1	HIE	X	318	20.814	28.205	51.670	0.00	0.00
ATOM	4786	HE1	HIE	X	318	20.689	27.357	51.013	0.00	0.00
ATOM	4787	NE2	HIE	X	318	20.407	28.274	52.950	0.00	0.00
ATOM	4788	HE2	HIE	X	318	19.746	27.655	53.398	0.00	0.00
ATOM	4789	CD2	HIE	X	318	20.721	29.578	53.345	0.00	0.00
ATOM	4790	HD2	HIE	X	318	20.524	29.948	54.340	0.00	0.00
ATOM	4791	C	HIE	X	318	22.416	31.990	49.767	0.00	0.00
ATOM	4792	O	HIE	X	318	21.787	33.018	49.429	0.00	0.00
ATOM	4793	N	GLY	X	319	22.745	31.004	48.959	0.00	0.00
ATOM	4794	H	GLY	X	319	23.253	30.238	49.379	0.00	0.00
ATOM	4795	CA	GLY	X	319	22.239	30.885	47.597	0.00	0.00

ATOM	4796	HA2	GLY	X	319	22.243	29.826	47.336	0.00	0.00
ATOM	4797	HA3	GLY	X	319	21.225	31.260	47.453	0.00	0.00
ATOM	4798	C	GLY	X	319	23.051	31.584	46.508	0.00	0.00
ATOM	4799	O	GLY	X	319	22.780	31.294	45.365	0.00	0.00
ATOM	4800	N	LEU	X	320	24.010	32.480	46.858	0.00	0.00
ATOM	4801	H	LEU	X	320	23.914	32.854	47.791	0.00	0.00
ATOM	4802	CA	LEU	X	320	24.958	33.178	45.960	0.00	0.00
ATOM	4803	HA	LEU	X	320	24.435	33.490	45.056	0.00	0.00
ATOM	4804	CB	LEU	X	320	25.661	34.292	46.742	0.00	0.00
ATOM	4805	HB2	LEU	X	320	26.206	33.891	47.597	0.00	0.00
ATOM	4806	HB3	LEU	X	320	26.513	34.715	46.210	0.00	0.00
ATOM	4807	CG	LEU	X	320	24.629	35.424	47.288	0.00	0.00
ATOM	4808	HG	LEU	X	320	23.948	34.936	47.984	0.00	0.00
ATOM	4809	CD1	LEU	X	320	25.500	36.528	47.978	0.00	0.00
ATOM	4810	HD11	LEU	X	320	24.852	37.242	48.487	0.00	0.00
ATOM	4811	HD12	LEU	X	320	26.026	36.977	47.136	0.00	0.00
ATOM	4812	HD13	LEU	X	320	26.169	35.998	48.656	0.00	0.00
ATOM	4813	CD2	LEU	X	320	23.713	35.955	46.180	0.00	0.00
ATOM	4814	HD21	LEU	X	320	24.415	36.444	45.505	0.00	0.00
ATOM	4815	HD22	LEU	X	320	23.303	35.112	45.623	0.00	0.00
ATOM	4816	HD23	LEU	X	320	23.040	36.662	46.665	0.00	0.00
ATOM	4817	C	LEU	X	320	26.008	32.120	45.514	0.00	0.00
ATOM	4818	O	LEU	X	320	26.391	31.217	46.348	0.00	0.00
ATOM	4819	N	GLN	X	321	26.476	32.229	44.219	0.00	0.00
ATOM	4820	H	GLN	X	321	26.109	32.968	43.638	0.00	0.00
ATOM	4821	CA	GLN	X	321	27.331	31.279	43.584	0.00	0.00
ATOM	4822	HA	GLN	X	321	27.398	30.407	44.234	0.00	0.00
ATOM	4823	CB	GLN	X	321	26.805	30.847	42.205	0.00	0.00
ATOM	4824	HB2	GLN	X	321	26.715	31.775	41.640	0.00	0.00
ATOM	4825	HB3	GLN	X	321	27.526	30.239	41.658	0.00	0.00
ATOM	4826	CG	GLN	X	321	25.534	29.974	42.290	0.00	0.00
ATOM	4827	HG2	GLN	X	321	25.830	28.925	42.271	0.00	0.00
ATOM	4828	HG3	GLN	X	321	24.995	30.151	43.221	0.00	0.00
ATOM	4829	CD	GLN	X	321	24.512	30.214	41.197	0.00	0.00
ATOM	4830	OE1	GLN	X	321	24.685	31.035	40.297	0.00	0.00
ATOM	4831	NE2	GLN	X	321	23.339	29.540	41.195	0.00	0.00
ATOM	4832	HE21	GLN	X	321	22.545	29.738	40.602	0.00	0.00
ATOM	4833	HE22	GLN	X	321	23.151	28.920	41.970	0.00	0.00
ATOM	4834	C	GLN	X	321	28.721	31.952	43.380	0.00	0.00
ATOM	4835	O	GLN	X	321	28.958	32.992	42.681	0.00	0.00
ATOM	4836	N	VAL	X	322	29.746	31.301	43.953	0.00	0.00
ATOM	4837	H	VAL	X	322	29.527	30.384	44.315	0.00	0.00
ATOM	4838	CA	VAL	X	322	31.128	31.866	44.126	0.00	0.00
ATOM	4839	HA	VAL	X	322	31.327	32.736	43.500	0.00	0.00
ATOM	4840	CB	VAL	X	322	31.415	32.233	45.663	0.00	0.00
ATOM	4841	HB	VAL	X	322	31.407	31.304	46.233	0.00	0.00
ATOM	4842	CG1	VAL	X	322	32.757	33.044	45.760	0.00	0.00
ATOM	4843	HG11	VAL	X	322	32.711	33.919	45.112	0.00	0.00
ATOM	4844	HG12	VAL	X	322	32.877	33.346	46.801	0.00	0.00
ATOM	4845	HG13	VAL	X	322	33.573	32.501	45.283	0.00	0.00
ATOM	4846	CG2	VAL	X	322	30.349	33.122	46.283	0.00	0.00
ATOM	4847	HG21	VAL	X	322	29.334	32.735	46.195	0.00	0.00
ATOM	4848	HG22	VAL	X	322	30.412	34.018	45.665	0.00	0.00
ATOM	4849	HG23	VAL	X	322	30.622	33.310	47.321	0.00	0.00
ATOM	4850	C	VAL	X	322	32.117	30.788	43.722	0.00	0.00
ATOM	4851	O	VAL	X	322	31.896	29.655	44.106	0.00	0.00
ATOM	4852	N	LEU	X	323	33.164	31.088	43.025	0.00	0.00
ATOM	4853	H	LEU	X	323	33.144	31.934	42.474	0.00	0.00
ATOM	4854	CA	LEU	X	323	34.325	30.217	42.822	0.00	0.00
ATOM	4855	HA	LEU	X	323	34.060	29.238	43.222	0.00	0.00
ATOM	4856	CB	LEU	X	323	34.538	30.017	41.308	0.00	0.00
ATOM	4857	HB2	LEU	X	323	33.538	29.870	40.901	0.00	0.00
ATOM	4858	HB3	LEU	X	323	34.897	30.926	40.825	0.00	0.00
ATOM	4859	CG	LEU	X	323	35.441	28.905	40.795	0.00	0.00
ATOM	4860	HG	LEU	X	323	35.134	28.019	41.352	0.00	0.00
ATOM	4861	CD1	LEU	X	323	35.262	28.530	39.297	0.00	0.00
ATOM	4862	HD11	LEU	X	323	35.709	29.325	38.699	0.00	0.00

ATOM	4863	HD12	LEU	X	323	34.193	28.496	39.090	0.00	0.00
ATOM	4864	HD13	LEU	X	323	35.603	27.510	39.123	0.00	0.00
ATOM	4865	CD2	LEU	X	323	36.941	29.227	40.928	0.00	0.00
ATOM	4866	HD21	LEU	X	323	37.062	30.282	40.682	0.00	0.00
ATOM	4867	HD22	LEU	X	323	37.279	28.964	41.930	0.00	0.00
ATOM	4868	HD23	LEU	X	323	37.609	28.570	40.371	0.00	0.00
ATOM	4869	C	LEU	X	323	35.471	30.794	43.664	0.00	0.00
ATOM	4870	O	LEU	X	323	35.661	32.006	43.686	0.00	0.00
ATOM	4871	N	VAL	X	324	36.219	29.890	44.346	0.00	0.00
ATOM	4872	H	VAL	X	324	36.150	28.894	44.190	0.00	0.00
ATOM	4873	CA	VAL	X	324	37.366	30.238	45.172	0.00	0.00
ATOM	4874	HA	VAL	X	324	37.633	31.266	44.926	0.00	0.00
ATOM	4875	CB	VAL	X	324	37.031	30.212	46.672	0.00	0.00
ATOM	4876	HB	VAL	X	324	37.941	30.309	47.264	0.00	0.00
ATOM	4877	CG1	VAL	X	324	36.013	31.352	46.982	0.00	0.00
ATOM	4878	HG11	VAL	X	324	36.387	32.322	46.653	0.00	0.00
ATOM	4879	HG12	VAL	X	324	35.059	31.054	46.547	0.00	0.00
ATOM	4880	HG13	VAL	X	324	35.851	31.369	48.059	0.00	0.00
ATOM	4881	CG2	VAL	X	324	36.304	28.886	47.010	0.00	0.00
ATOM	4882	HG21	VAL	X	324	36.772	28.013	46.553	0.00	0.00
ATOM	4883	HG22	VAL	X	324	35.258	28.842	46.707	0.00	0.00
ATOM	4884	HG23	VAL	X	324	36.294	28.717	48.087	0.00	0.00
ATOM	4885	C	VAL	X	324	38.596	29.379	44.855	0.00	0.00
ATOM	4886	O	VAL	X	324	38.356	28.237	44.446	0.00	0.00
ATOM	4887	N	GLY	X	325	39.818	29.762	45.138	0.00	0.00
ATOM	4888	H	GLY	X	325	39.958	30.726	45.403	0.00	0.00
ATOM	4889	CA	GLY	X	325	41.037	28.975	45.030	0.00	0.00
ATOM	4890	HA2	GLY	X	325	40.937	28.059	45.612	0.00	0.00
ATOM	4891	HA3	GLY	X	325	41.101	28.540	44.033	0.00	0.00
ATOM	4892	C	GLY	X	325	42.335	29.685	45.212	0.00	0.00
ATOM	4893	O	GLY	X	325	42.260	30.917	45.465	0.00	0.00
ATOM	4894	N	VAL	X	326	43.489	28.981	45.067	0.00	0.00
ATOM	4895	H	VAL	X	326	43.350	28.065	44.666	0.00	0.00
ATOM	4896	CA	VAL	X	326	44.949	29.420	45.101	0.00	0.00
ATOM	4897	HA	VAL	X	326	45.026	30.476	44.839	0.00	0.00
ATOM	4898	CB	VAL	X	326	45.607	29.248	46.519	0.00	0.00
ATOM	4899	HB	VAL	X	326	46.690	29.149	46.594	0.00	0.00
ATOM	4900	CG1	VAL	X	326	45.180	30.504	47.234	0.00	0.00
ATOM	4901	HG11	VAL	X	326	45.841	31.314	46.925	0.00	0.00
ATOM	4902	HG12	VAL	X	326	44.143	30.814	47.102	0.00	0.00
ATOM	4903	HG13	VAL	X	326	45.383	30.468	48.304	0.00	0.00
ATOM	4904	CG2	VAL	X	326	45.174	27.945	47.256	0.00	0.00
ATOM	4905	HG21	VAL	X	326	45.345	27.068	46.630	0.00	0.00
ATOM	4906	HG22	VAL	X	326	44.105	27.874	47.457	0.00	0.00
ATOM	4907	HG23	VAL	X	326	45.773	27.855	48.163	0.00	0.00
ATOM	4908	C	VAL	X	326	45.802	28.649	44.075	0.00	0.00
ATOM	4909	O	VAL	X	326	45.348	27.627	43.613	0.00	0.00
ATOM	4910	N	VAL	X	327	47.059	29.067	43.878	0.00	0.00
ATOM	4911	H	VAL	X	327	47.352	29.904	44.361	0.00	0.00
ATOM	4912	CA	VAL	X	327	48.080	28.280	43.224	0.00	0.00
ATOM	4913	HA	VAL	X	327	47.624	27.608	42.497	0.00	0.00
ATOM	4914	CB	VAL	X	327	49.092	29.212	42.430	0.00	0.00
ATOM	4915	HB	VAL	X	327	49.785	28.524	41.946	0.00	0.00
ATOM	4916	CG1	VAL	X	327	48.388	30.101	41.421	0.00	0.00
ATOM	4917	HG11	VAL	X	327	49.080	30.487	40.672	0.00	0.00
ATOM	4918	HG12	VAL	X	327	47.643	29.490	40.913	0.00	0.00
ATOM	4919	HG13	VAL	X	327	47.852	30.965	41.814	0.00	0.00
ATOM	4920	CG2	VAL	X	327	49.924	30.211	43.275	0.00	0.00
ATOM	4921	HG21	VAL	X	327	50.228	29.745	44.212	0.00	0.00
ATOM	4922	HG22	VAL	X	327	49.314	31.080	43.518	0.00	0.00
ATOM	4923	HG23	VAL	X	327	50.800	30.583	42.742	0.00	0.00
ATOM	4924	C	VAL	X	327	48.845	27.425	44.303	0.00	0.00
ATOM	4925	O	VAL	X	327	48.701	27.738	45.460	0.00	0.00
ATOM	4926	N	LYS	X	328	49.663	26.436	43.887	0.00	0.00
ATOM	4927	H	LYS	X	328	49.765	26.092	42.943	0.00	0.00
ATOM	4928	CA	LYS	X	328	50.354	25.606	44.932	0.00	0.00
ATOM	4929	HA	LYS	X	328	49.632	25.310	45.693	0.00	0.00

ATOM	4930	CB	LYS	X	328	50.889	24.335	44.216	0.00	0.00
ATOM	4931	HB2	LYS	X	328	49.955	23.810	44.015	0.00	0.00
ATOM	4932	HB3	LYS	X	328	51.468	24.708	43.371	0.00	0.00
ATOM	4933	CG	LYS	X	328	51.895	23.591	45.163	0.00	0.00
ATOM	4934	HG2	LYS	X	328	52.772	24.230	45.261	0.00	0.00
ATOM	4935	HG3	LYS	X	328	51.377	23.329	46.086	0.00	0.00
ATOM	4936	CD	LYS	X	328	52.451	22.246	44.548	0.00	0.00
ATOM	4937	HD2	LYS	X	328	53.208	21.922	45.262	0.00	0.00
ATOM	4938	HD3	LYS	X	328	51.627	21.540	44.437	0.00	0.00
ATOM	4939	CE	LYS	X	328	53.116	22.499	43.166	0.00	0.00
ATOM	4940	HE2	LYS	X	328	52.964	21.569	42.618	0.00	0.00
ATOM	4941	HE3	LYS	X	328	52.632	23.254	42.547	0.00	0.00
ATOM	4942	NZ	LYS	X	328	54.558	22.829	43.271	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	55.105	22.067	43.646	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	54.940	23.063	42.366	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	54.690	23.668	43.817	0.00	0.00
ATOM	4946	C	LYS	X	328	51.374	26.254	45.827	0.00	0.00
ATOM	4947	O	LYS	X	328	51.445	25.956	46.987	0.00	0.00
ATOM	4948	N	ASP	X	329	52.124	27.201	45.266	0.00	0.00
ATOM	4949	H	ASP	X	329	52.165	27.398	44.277	0.00	0.00
ATOM	4950	CA	ASP	X	329	53.341	27.616	46.005	0.00	0.00
ATOM	4951	HA	ASP	X	329	53.478	26.933	46.843	0.00	0.00
ATOM	4952	CB	ASP	X	329	54.634	27.562	45.198	0.00	0.00
ATOM	4953	HB2	ASP	X	329	54.674	28.211	44.323	0.00	0.00
ATOM	4954	HB3	ASP	X	329	55.453	27.936	45.812	0.00	0.00
ATOM	4955	CG	ASP	X	329	54.963	26.105	44.849	0.00	0.00
ATOM	4956	OD1	ASP	X	329	55.753	25.526	45.620	0.00	0.00
ATOM	4957	OD2	ASP	X	329	54.398	25.630	43.836	0.00	0.00
ATOM	4958	C	ASP	X	329	53.181	29.101	46.504	0.00	0.00
ATOM	4959	O	ASP	X	329	53.920	29.479	47.402	0.00	0.00
ATOM	4960	N	GLU	X	330	52.225	29.904	46.013	0.00	0.00
ATOM	4961	H	GLU	X	330	51.730	29.568	45.198	0.00	0.00
ATOM	4962	CA	GLU	X	330	51.772	31.238	46.397	0.00	0.00
ATOM	4963	HA	GLU	X	330	51.241	31.678	45.554	0.00	0.00
ATOM	4964	CB	GLU	X	330	50.700	31.306	47.515	0.00	0.00
ATOM	4965	HB2	GLU	X	330	50.971	30.632	48.327	0.00	0.00
ATOM	4966	HB3	GLU	X	330	50.520	32.300	47.924	0.00	0.00
ATOM	4967	CG	GLU	X	330	49.255	30.788	47.179	0.00	0.00
ATOM	4968	HG2	GLU	X	330	49.365	29.743	46.891	0.00	0.00
ATOM	4969	HG3	GLU	X	330	48.600	30.844	48.049	0.00	0.00
ATOM	4970	CD	GLU	X	330	48.649	31.744	46.087	0.00	0.00
ATOM	4971	OE1	GLU	X	330	49.121	32.903	46.127	0.00	0.00
ATOM	4972	OE2	GLU	X	330	47.799	31.369	45.259	0.00	0.00
ATOM	4973	C	GLU	X	330	52.970	32.134	46.574	0.00	0.00
ATOM	4974	O	GLU	X	330	53.586	32.577	45.663	0.00	0.00
ATOM	4975	N	GLY	X	331	53.205	32.484	47.860	0.00	0.00
ATOM	4976	H	GLY	X	331	52.862	31.977	48.664	0.00	0.00
ATOM	4977	CA	GLY	X	331	54.103	33.482	48.311	0.00	0.00
ATOM	4978	HA2	GLY	X	331	53.941	34.382	47.718	0.00	0.00
ATOM	4979	HA3	GLY	X	331	53.948	33.707	49.366	0.00	0.00
ATOM	4980	C	GLY	X	331	55.592	33.109	48.078	0.00	0.00
ATOM	4981	O	GLY	X	331	56.432	33.990	48.392	0.00	0.00
ATOM	4982	N	SER	X	332	55.836	31.968	47.487	0.00	0.00
ATOM	4983	H	SER	X	332	55.046	31.375	47.278	0.00	0.00
ATOM	4984	CA	SER	X	332	57.155	31.774	46.786	0.00	0.00
ATOM	4985	HA	SER	X	332	57.958	31.708	47.520	0.00	0.00
ATOM	4986	CB	SER	X	332	57.168	30.445	46.032	0.00	0.00
ATOM	4987	HB2	SER	X	332	58.120	30.114	45.616	0.00	0.00
ATOM	4988	HB3	SER	X	332	56.874	29.624	46.686	0.00	0.00
ATOM	4989	OG	SER	X	332	56.286	30.391	44.863	0.00	0.00
ATOM	4990	HG	SER	X	332	56.439	29.569	44.393	0.00	0.00
ATOM	4991	C	SER	X	332	57.504	32.940	45.842	0.00	0.00
ATOM	4992	O	SER	X	332	58.641	33.377	45.706	0.00	0.00
ATOM	4993	N	TYR	X	333	56.478	33.498	45.112	0.00	0.00
ATOM	4994	H	TYR	X	333	55.617	32.971	45.070	0.00	0.00
ATOM	4995	CA	TYR	X	333	56.606	34.738	44.378	0.00	0.00
ATOM	4996	HA	TYR	X	333	57.315	34.579	43.566	0.00	0.00

ATOM	4997	CB	TYR	X	333	55.155	35.081	43.909	0.00	0.00
ATOM	4998	HB2	TYR	X	333	54.651	34.168	43.592	0.00	0.00
ATOM	4999	HB3	TYR	X	333	54.678	35.382	44.842	0.00	0.00
ATOM	5000	CG	TYR	X	333	55.007	36.263	42.962	0.00	0.00
ATOM	5001	CD1	TYR	X	333	55.835	36.306	41.842	0.00	0.00
ATOM	5002	HD1	TYR	X	333	56.655	35.638	41.624	0.00	0.00
ATOM	5003	CE1	TYR	X	333	55.753	37.394	40.982	0.00	0.00
ATOM	5004	HE1	TYR	X	333	56.455	37.422	40.161	0.00	0.00
ATOM	5005	CZ	TYR	X	333	54.724	38.383	41.194	0.00	0.00
ATOM	5006	OH	TYR	X	333	54.589	39.403	40.298	0.00	0.00
ATOM	5007	HH	TYR	X	333	55.137	39.323	39.514	0.00	0.00
ATOM	5008	CE2	TYR	X	333	53.947	38.346	42.381	0.00	0.00
ATOM	5009	HE2	TYR	X	333	53.255	39.169	42.491	0.00	0.00
ATOM	5010	CD2	TYR	X	333	54.157	37.341	43.259	0.00	0.00
ATOM	5011	HD2	TYR	X	333	53.564	37.299	44.160	0.00	0.00
ATOM	5012	C	TYR	X	333	57.147	35.991	45.175	0.00	0.00
ATOM	5013	O	TYR	X	333	57.910	36.732	44.581	0.00	0.00
ATOM	5014	N	PHE	X	334	56.725	36.245	46.408	0.00	0.00
ATOM	5015	H	PHE	X	334	55.899	35.753	46.716	0.00	0.00
ATOM	5016	CA	PHE	X	334	57.105	37.558	47.012	0.00	0.00
ATOM	5017	HA	PHE	X	334	56.958	38.383	46.315	0.00	0.00
ATOM	5018	CB	PHE	X	334	56.041	37.876	48.105	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.993	36.997	48.749	0.00	0.00
ATOM	5020	HB3	PHE	X	334	56.346	38.703	48.746	0.00	0.00
ATOM	5021	CG	PHE	X	334	54.727	38.330	47.515	0.00	0.00
ATOM	5022	CD1	PHE	X	334	53.696	37.420	47.436	0.00	0.00
ATOM	5023	HD1	PHE	X	334	53.723	36.344	47.527	0.00	0.00
ATOM	5024	CE1	PHE	X	334	52.491	37.884	46.814	0.00	0.00
ATOM	5025	HE1	PHE	X	334	51.645	37.229	46.669	0.00	0.00
ATOM	5026	CZ	PHE	X	334	52.324	39.263	46.518	0.00	0.00
ATOM	5027	HZ	PHE	X	334	51.376	39.607	46.131	0.00	0.00
ATOM	5028	CE2	PHE	X	334	53.323	40.170	46.740	0.00	0.00
ATOM	5029	HE2	PHE	X	334	53.196	41.224	46.541	0.00	0.00
ATOM	5030	CD2	PHE	X	334	54.567	39.720	47.177	0.00	0.00
ATOM	5031	HD2	PHE	X	334	55.379	40.430	47.232	0.00	0.00
ATOM	5032	C	PHE	X	334	58.434	37.561	47.690	0.00	0.00
ATOM	5033	O	PHE	X	334	58.882	38.634	48.032	0.00	0.00
ATOM	5034	N	LEU	X	335	59.025	36.380	47.817	0.00	0.00
ATOM	5035	H	LEU	X	335	58.537	35.546	47.522	0.00	0.00
ATOM	5036	CA	LEU	X	335	60.195	36.313	48.726	0.00	0.00
ATOM	5037	HA	LEU	X	335	59.883	36.595	49.731	0.00	0.00
ATOM	5038	CB	LEU	X	335	60.728	34.930	48.686	0.00	0.00
ATOM	5039	HB2	LEU	X	335	61.101	34.690	47.690	0.00	0.00
ATOM	5040	HB3	LEU	X	335	61.549	34.854	49.399	0.00	0.00
ATOM	5041	CG	LEU	X	335	59.782	33.753	49.148	0.00	0.00
ATOM	5042	HG	LEU	X	335	59.094	33.814	48.306	0.00	0.00
ATOM	5043	CD1	LEU	X	335	60.586	32.498	48.965	0.00	0.00
ATOM	5044	HD11	LEU	X	335	60.866	32.310	47.928	0.00	0.00
ATOM	5045	HD12	LEU	X	335	60.012	31.612	49.234	0.00	0.00
ATOM	5046	HD13	LEU	X	335	61.540	32.662	49.465	0.00	0.00
ATOM	5047	CD2	LEU	X	335	58.971	33.859	50.416	0.00	0.00
ATOM	5048	HD21	LEU	X	335	59.583	34.079	51.291	0.00	0.00
ATOM	5049	HD22	LEU	X	335	58.166	34.593	50.375	0.00	0.00
ATOM	5050	HD23	LEU	X	335	58.623	32.861	50.682	0.00	0.00
ATOM	5051	C	LEU	X	335	61.323	37.282	48.301	0.00	0.00
ATOM	5052	O	LEU	X	335	61.993	37.798	49.180	0.00	0.00
ATOM	5053	N	VAL	X	336	61.441	37.506	46.954	0.00	0.00
ATOM	5054	H	VAL	X	336	60.972	36.894	46.302	0.00	0.00
ATOM	5055	CA	VAL	X	336	62.549	38.317	46.444	0.00	0.00
ATOM	5056	HA	VAL	X	336	63.399	37.911	46.993	0.00	0.00
ATOM	5057	CB	VAL	X	336	62.773	38.237	44.931	0.00	0.00
ATOM	5058	HB	VAL	X	336	63.548	38.985	44.762	0.00	0.00
ATOM	5059	CG1	VAL	X	336	63.417	36.910	44.699	0.00	0.00
ATOM	5060	HG11	VAL	X	336	62.758	36.089	44.981	0.00	0.00
ATOM	5061	HG12	VAL	X	336	63.694	36.847	43.647	0.00	0.00
ATOM	5062	HG13	VAL	X	336	64.374	36.836	45.216	0.00	0.00
ATOM	5063	CG2	VAL	X	336	61.493	38.501	44.048	0.00	0.00

ATOM	5064	HG21	VAL	X	336	60.762	37.695	43.990	0.00	0.00
ATOM	5065	HG22	VAL	X	336	61.824	38.711	43.031	0.00	0.00
ATOM	5066	HG23	VAL	X	336	60.939	39.357	44.435	0.00	0.00
ATOM	5067	C	VAL	X	336	62.306	39.800	46.774	0.00	0.00
ATOM	5068	O	VAL	X	336	63.305	40.566	46.691	0.00	0.00
ATOM	5069	N	TYR	X	337	61.129	40.195	47.278	0.00	0.00
ATOM	5070	H	TYR	X	337	60.425	39.490	47.443	0.00	0.00
ATOM	5071	CA	TYR	X	337	60.805	41.622	47.586	0.00	0.00
ATOM	5072	HA	TYR	X	337	61.503	42.320	47.121	0.00	0.00
ATOM	5073	CB	TYR	X	337	59.418	41.933	46.977	0.00	0.00
ATOM	5074	HB2	TYR	X	337	58.624	41.391	47.490	0.00	0.00
ATOM	5075	HB3	TYR	X	337	59.190	42.988	47.130	0.00	0.00
ATOM	5076	CG	TYR	X	337	59.190	41.704	45.472	0.00	0.00
ATOM	5077	CD1	TYR	X	337	59.948	42.578	44.664	0.00	0.00
ATOM	5078	HD1	TYR	X	337	60.452	43.378	45.186	0.00	0.00
ATOM	5079	CE1	TYR	X	337	59.892	42.454	43.306	0.00	0.00
ATOM	5080	HE1	TYR	X	337	60.360	43.117	42.592	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.997	41.504	42.825	0.00	0.00
ATOM	5082	OH	TYR	X	337	58.813	41.375	41.451	0.00	0.00
ATOM	5083	HH	TYR	X	337	59.359	42.062	41.062	0.00	0.00
ATOM	5084	CE2	TYR	X	337	58.283	40.543	43.626	0.00	0.00
ATOM	5085	HE2	TYR	X	337	57.540	39.836	43.288	0.00	0.00
ATOM	5086	CD2	TYR	X	337	58.416	40.653	45.024	0.00	0.00
ATOM	5087	HD2	TYR	X	337	57.811	40.110	45.734	0.00	0.00
ATOM	5088	C	TYR	X	337	60.953	41.915	49.093	0.00	0.00
ATOM	5089	O	TYR	X	337	60.967	43.099	49.527	0.00	0.00
ATOM	5090	N	GLY	X	338	61.222	40.874	49.934	0.00	0.00
ATOM	5091	H	GLY	X	338	60.963	39.981	49.539	0.00	0.00
ATOM	5092	CA	GLY	X	338	61.441	40.992	51.317	0.00	0.00
ATOM	5093	HA2	GLY	X	338	61.655	42.014	51.629	0.00	0.00
ATOM	5094	HA3	GLY	X	338	60.555	40.562	51.784	0.00	0.00
ATOM	5095	C	GLY	X	338	62.566	40.174	51.946	0.00	0.00
ATOM	5096	O	GLY	X	338	63.084	40.648	52.977	0.00	0.00
ATOM	5097	N	ALA	X	339	62.840	38.992	51.403	0.00	0.00
ATOM	5098	H	ALA	X	339	62.294	38.774	50.581	0.00	0.00
ATOM	5099	CA	ALA	X	339	63.681	38.041	52.116	0.00	0.00
ATOM	5100	HA	ALA	X	339	63.478	38.174	53.179	0.00	0.00
ATOM	5101	CB	ALA	X	339	63.221	36.630	51.778	0.00	0.00
ATOM	5102	HB1	ALA	X	339	62.131	36.611	51.753	0.00	0.00
ATOM	5103	HB2	ALA	X	339	63.627	35.997	52.567	0.00	0.00
ATOM	5104	HB3	ALA	X	339	63.511	36.198	50.821	0.00	0.00
ATOM	5105	C	ALA	X	339	65.179	38.316	51.951	0.00	0.00
ATOM	5106	O	ALA	X	339	65.634	38.911	50.970	0.00	0.00
ATOM	5107	N	PRO	X	340	65.970	38.115	53.026	0.00	0.00
ATOM	5108	CD	PRO	X	340	65.694	37.806	54.388	0.00	0.00
ATOM	5109	HD2	PRO	X	340	64.985	36.979	54.393	0.00	0.00
ATOM	5110	HD3	PRO	X	340	65.239	38.623	54.948	0.00	0.00
ATOM	5111	CG	PRO	X	340	67.003	37.376	55.032	0.00	0.00
ATOM	5112	HG2	PRO	X	340	67.134	36.303	54.888	0.00	0.00
ATOM	5113	HG3	PRO	X	340	67.052	37.591	56.099	0.00	0.00
ATOM	5114	CB	PRO	X	340	68.093	38.156	54.215	0.00	0.00
ATOM	5115	HB2	PRO	X	340	69.025	37.600	54.118	0.00	0.00
ATOM	5116	HB3	PRO	X	340	68.066	39.154	54.654	0.00	0.00
ATOM	5117	CA	PRO	X	340	67.411	38.360	52.866	0.00	0.00
ATOM	5118	HA	PRO	X	340	67.553	39.372	52.487	0.00	0.00
ATOM	5119	C	PRO	X	340	68.102	37.491	51.822	0.00	0.00
ATOM	5120	O	PRO	X	340	68.158	36.266	51.932	0.00	0.00
ATOM	5121	N	GLY	X	341	68.595	38.136	50.733	0.00	0.00
ATOM	5122	H	GLY	X	341	68.418	39.128	50.662	0.00	0.00
ATOM	5123	CA	GLY	X	341	69.588	37.637	49.791	0.00	0.00
ATOM	5124	HA2	GLY	X	341	69.969	38.542	49.318	0.00	0.00
ATOM	5125	HA3	GLY	X	341	70.369	37.180	50.398	0.00	0.00
ATOM	5126	C	GLY	X	341	68.928	36.639	48.728	0.00	0.00
ATOM	5127	O	GLY	X	341	69.625	35.912	48.080	0.00	0.00
ATOM	5128	N	PHE	X	342	67.594	36.669	48.724	0.00	0.00
ATOM	5129	H	PHE	X	342	67.203	37.251	49.452	0.00	0.00
ATOM	5130	CA	PHE	X	342	66.771	36.161	47.672	0.00	0.00

ATOM	5131	HA	PHE	X	342	67.260	35.241	47.353	0.00	0.00
ATOM	5132	CB	PHE	X	342	65.319	35.970	48.125	0.00	0.00
ATOM	5133	HB2	PHE	X	342	65.131	36.752	48.860	0.00	0.00
ATOM	5134	HB3	PHE	X	342	64.562	35.943	47.342	0.00	0.00
ATOM	5135	CG	PHE	X	342	65.051	34.660	48.805	0.00	0.00
ATOM	5136	CD1	PHE	X	342	64.386	33.678	48.151	0.00	0.00
ATOM	5137	HD1	PHE	X	342	64.043	33.879	47.147	0.00	0.00
ATOM	5138	CE1	PHE	X	342	64.073	32.500	48.818	0.00	0.00
ATOM	5139	HE1	PHE	X	342	63.489	31.754	48.300	0.00	0.00
ATOM	5140	CZ	PHE	X	342	64.398	32.379	50.146	0.00	0.00
ATOM	5141	HZ	PHE	X	342	64.062	31.549	50.750	0.00	0.00
ATOM	5142	CE2	PHE	X	342	65.075	33.396	50.793	0.00	0.00
ATOM	5143	HE2	PHE	X	342	65.295	33.323	51.848	0.00	0.00
ATOM	5144	CD2	PHE	X	342	65.484	34.515	50.124	0.00	0.00
ATOM	5145	HD2	PHE	X	342	66.067	35.273	50.625	0.00	0.00
ATOM	5146	C	PHE	X	342	66.889	37.021	46.332	0.00	0.00
ATOM	5147	O	PHE	X	342	66.995	38.208	46.490	0.00	0.00
ATOM	5148	N	SER	X	343	66.871	36.426	45.151	0.00	0.00
ATOM	5149	H	SER	X	343	66.926	35.418	45.120	0.00	0.00
ATOM	5150	CA	SER	X	343	66.853	37.189	43.874	0.00	0.00
ATOM	5151	HA	SER	X	343	66.069	37.946	43.850	0.00	0.00
ATOM	5152	CB	SER	X	343	68.233	37.674	43.565	0.00	0.00
ATOM	5153	HB2	SER	X	343	68.207	38.678	43.141	0.00	0.00
ATOM	5154	HB3	SER	X	343	68.736	37.890	44.508	0.00	0.00
ATOM	5155	OG	SER	X	343	68.987	36.848	42.730	0.00	0.00
ATOM	5156	HG	SER	X	343	69.601	37.415	42.258	0.00	0.00
ATOM	5157	C	SER	X	343	66.263	36.362	42.735	0.00	0.00
ATOM	5158	O	SER	X	343	66.056	35.136	42.943	0.00	0.00
ATOM	5159	N	LYS	X	344	66.020	36.946	41.583	0.00	0.00
ATOM	5160	H	LYS	X	344	66.302	37.914	41.519	0.00	0.00
ATOM	5161	CA	LYS	X	344	65.260	36.363	40.569	0.00	0.00
ATOM	5162	HA	LYS	X	344	64.364	35.867	40.941	0.00	0.00
ATOM	5163	CB	LYS	X	344	64.498	37.531	39.789	0.00	0.00
ATOM	5164	HB2	LYS	X	344	63.743	37.028	39.184	0.00	0.00
ATOM	5165	HB3	LYS	X	344	63.941	38.112	40.524	0.00	0.00
ATOM	5166	CG	LYS	X	344	65.377	38.558	38.961	0.00	0.00
ATOM	5167	HG2	LYS	X	344	64.689	39.293	38.544	0.00	0.00
ATOM	5168	HG3	LYS	X	344	65.958	39.107	39.702	0.00	0.00
ATOM	5169	CD	LYS	X	344	66.200	37.987	37.769	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.949	37.360	38.252	0.00	0.00
ATOM	5171	HD3	LYS	X	344	65.682	37.428	36.990	0.00	0.00
ATOM	5172	CE	LYS	X	344	67.105	39.129	37.278	0.00	0.00
ATOM	5173	HE2	LYS	X	344	66.438	39.770	36.701	0.00	0.00
ATOM	5174	HE3	LYS	X	344	67.459	39.768	38.087	0.00	0.00
ATOM	5175	NZ	LYS	X	344	68.246	38.654	36.491	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	69.029	39.263	36.678	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	68.501	37.711	36.745	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.109	38.685	35.490	0.00	0.00
ATOM	5179	C	LYS	X	344	65.994	35.299	39.738	0.00	0.00
ATOM	5180	O	LYS	X	344	65.442	34.769	38.806	0.00	0.00
ATOM	5181	N	ASP	X	345	67.195	34.851	40.203	0.00	0.00
ATOM	5182	H	ASP	X	345	67.563	35.318	41.019	0.00	0.00
ATOM	5183	CA	ASP	X	345	68.124	33.913	39.557	0.00	0.00
ATOM	5184	HA	ASP	X	345	67.509	33.130	39.113	0.00	0.00
ATOM	5185	CB	ASP	X	345	68.816	34.525	38.287	0.00	0.00
ATOM	5186	HB2	ASP	X	345	69.355	33.753	37.738	0.00	0.00
ATOM	5187	HB3	ASP	X	345	68.055	34.914	37.610	0.00	0.00
ATOM	5188	CG	ASP	X	345	69.794	35.677	38.558	0.00	0.00
ATOM	5189	OD1	ASP	X	345	70.958	35.623	38.150	0.00	0.00
ATOM	5190	OD2	ASP	X	345	69.352	36.717	39.064	0.00	0.00
ATOM	5191	C	ASP	X	345	69.144	33.245	40.506	0.00	0.00
ATOM	5192	O	ASP	X	345	69.593	32.119	40.141	0.00	0.00
ATOM	5193	N	ASN	X	346	69.399	33.787	41.714	0.00	0.00
ATOM	5194	H	ASN	X	346	68.918	34.662	41.866	0.00	0.00
ATOM	5195	CA	ASN	X	346	70.274	33.255	42.737	0.00	0.00
ATOM	5196	HA	ASN	X	346	71.139	32.842	42.219	0.00	0.00
ATOM	5197	CB	ASN	X	346	70.714	34.460	43.582	0.00	0.00

ATOM	5198	HB2	ASN	X	346	70.980	35.273	42.905	0.00	0.00
ATOM	5199	HB3	ASN	X	346	69.877	34.826	44.175	0.00	0.00
ATOM	5200	CG	ASN	X	346	71.864	34.140	44.488	0.00	0.00
ATOM	5201	OD1	ASN	X	346	71.656	33.526	45.512	0.00	0.00
ATOM	5202	ND2	ASN	X	346	73.077	34.674	44.244	0.00	0.00
ATOM	5203	HD21	ASN	X	346	73.821	34.303	44.817	0.00	0.00
ATOM	5204	HD22	ASN	X	346	73.284	35.096	43.350	0.00	0.00
ATOM	5205	C	ASN	X	346	69.539	32.074	43.535	0.00	0.00
ATOM	5206	O	ASN	X	346	68.332	32.109	43.762	0.00	0.00
ATOM	5207	N	GLU	X	347	70.335	31.099	43.998	0.00	0.00
ATOM	5208	H	GLU	X	347	71.284	31.032	43.658	0.00	0.00
ATOM	5209	CA	GLU	X	347	69.811	29.947	44.818	0.00	0.00
ATOM	5210	HA	GLU	X	347	68.940	29.528	44.314	0.00	0.00
ATOM	5211	CB	GLU	X	347	70.932	28.848	44.857	0.00	0.00
ATOM	5212	HB2	GLU	X	347	71.857	29.417	44.950	0.00	0.00
ATOM	5213	HB3	GLU	X	347	70.787	28.133	45.667	0.00	0.00
ATOM	5214	CG	GLU	X	347	70.958	28.114	43.545	0.00	0.00
ATOM	5215	HG2	GLU	X	347	69.975	27.645	43.500	0.00	0.00
ATOM	5216	HG3	GLU	X	347	71.058	28.744	42.661	0.00	0.00
ATOM	5217	CD	GLU	X	347	71.991	26.987	43.690	0.00	0.00
ATOM	5218	OE1	GLU	X	347	73.175	27.240	43.474	0.00	0.00
ATOM	5219	OE2	GLU	X	347	71.664	25.769	43.928	0.00	0.00
ATOM	5220	C	GLU	X	347	69.369	30.254	46.253	0.00	0.00
ATOM	5221	O	GLU	X	347	68.650	29.458	46.854	0.00	0.00
ATOM	5222	N	SER	X	348	69.713	31.381	46.792	0.00	0.00
ATOM	5223	H	SER	X	348	70.339	32.004	46.303	0.00	0.00
ATOM	5224	CA	SER	X	348	69.090	31.901	48.084	0.00	0.00
ATOM	5225	HA	SER	X	348	69.619	32.804	48.389	0.00	0.00
ATOM	5226	CB	SER	X	348	67.617	32.221	47.814	0.00	0.00
ATOM	5227	HB2	SER	X	348	67.031	31.302	47.814	0.00	0.00
ATOM	5228	HB3	SER	X	348	67.246	32.795	48.663	0.00	0.00
ATOM	5229	OG	SER	X	348	67.357	32.893	46.566	0.00	0.00
ATOM	5230	HG	SER	X	348	67.693	32.329	45.866	0.00	0.00
ATOM	5231	C	SER	X	348	69.350	30.937	49.284	0.00	0.00
ATOM	5232	O	SER	X	348	68.365	30.545	49.937	0.00	0.00
ATOM	5233	N	LEU	X	349	70.653	30.626	49.589	0.00	0.00
ATOM	5234	H	LEU	X	349	71.197	31.087	48.873	0.00	0.00
ATOM	5235	CA	LEU	X	349	71.283	29.663	50.486	0.00	0.00
ATOM	5236	HA	LEU	X	349	70.614	28.803	50.477	0.00	0.00
ATOM	5237	CB	LEU	X	349	72.673	29.288	49.895	0.00	0.00
ATOM	5238	HB2	LEU	X	349	73.290	30.158	49.668	0.00	0.00
ATOM	5239	HB3	LEU	X	349	73.147	28.730	50.702	0.00	0.00
ATOM	5240	CG	LEU	X	349	72.693	28.542	48.486	0.00	0.00
ATOM	5241	HG	LEU	X	349	72.250	29.257	47.793	0.00	0.00
ATOM	5242	CD1	LEU	X	349	74.159	28.365	48.060	0.00	0.00
ATOM	5243	HD11	LEU	X	349	74.805	27.785	48.719	0.00	0.00
ATOM	5244	HD12	LEU	X	349	74.712	29.280	47.844	0.00	0.00
ATOM	5245	HD13	LEU	X	349	74.151	27.760	47.154	0.00	0.00
ATOM	5246	CD2	LEU	X	349	71.942	27.218	48.390	0.00	0.00
ATOM	5247	HD21	LEU	X	349	70.956	27.415	48.812	0.00	0.00
ATOM	5248	HD22	LEU	X	349	71.859	26.900	47.351	0.00	0.00
ATOM	5249	HD23	LEU	X	349	72.428	26.573	49.122	0.00	0.00
ATOM	5250	C	LEU	X	349	71.240	30.065	51.992	0.00	0.00
ATOM	5251	O	LEU	X	349	72.222	30.173	52.700	0.00	0.00
ATOM	5252	N	ILE	X	350	70.050	30.241	52.552	0.00	0.00
ATOM	5253	H	ILE	X	350	69.335	30.277	51.839	0.00	0.00
ATOM	5254	CA	ILE	X	350	69.807	30.772	53.857	0.00	0.00
ATOM	5255	HA	ILE	X	350	70.351	31.688	54.087	0.00	0.00
ATOM	5256	CB	ILE	X	350	68.324	31.206	53.964	0.00	0.00
ATOM	5257	HB	ILE	X	350	68.121	31.637	54.944	0.00	0.00
ATOM	5258	CG2	ILE	X	350	67.956	32.225	52.878	0.00	0.00
ATOM	5259	HG21	ILE	X	350	67.841	31.780	51.889	0.00	0.00
ATOM	5260	HG22	ILE	X	350	68.691	33.021	52.767	0.00	0.00
ATOM	5261	HG23	ILE	X	350	67.022	32.756	53.064	0.00	0.00
ATOM	5262	CG1	ILE	X	350	67.410	29.921	53.880	0.00	0.00
ATOM	5263	HG12	ILE	X	350	67.697	29.334	53.007	0.00	0.00
ATOM	5264	HG13	ILE	X	350	67.505	29.277	54.754	0.00	0.00

ATOM	5265	CD1	ILE	X	350	65.925	30.176	53.827	0.00	0.00
ATOM	5266	HD11	ILE	X	350	65.313	29.282	53.952	0.00	0.00
ATOM	5267	HD12	ILE	X	350	65.584	30.536	52.856	0.00	0.00
ATOM	5268	HD13	ILE	X	350	65.608	30.916	54.561	0.00	0.00
ATOM	5269	C	ILE	X	350	70.202	29.774	54.978	0.00	0.00
ATOM	5270	O	ILE	X	350	69.936	28.570	54.921	0.00	0.00
ATOM	5271	N	SER	X	351	70.785	30.262	56.054	0.00	0.00
ATOM	5272	H	SER	X	351	71.026	31.241	56.117	0.00	0.00
ATOM	5273	CA	SER	X	351	71.024	29.514	57.305	0.00	0.00
ATOM	5274	HA	SER	X	351	71.222	28.450	57.183	0.00	0.00
ATOM	5275	CB	SER	X	351	72.154	30.233	58.037	0.00	0.00
ATOM	5276	HB2	SER	X	351	72.210	29.777	59.025	0.00	0.00
ATOM	5277	HB3	SER	X	351	73.080	30.171	57.466	0.00	0.00
ATOM	5278	OG	SER	X	351	71.878	31.610	58.332	0.00	0.00
ATOM	5279	HG	SER	X	351	72.458	32.258	57.927	0.00	0.00
ATOM	5280	C	SER	X	351	69.753	29.601	58.126	0.00	0.00
ATOM	5281	O	SER	X	351	68.852	30.411	57.847	0.00	0.00
ATOM	5282	N	ARG	X	352	69.607	28.921	59.235	0.00	0.00
ATOM	5283	H	ARG	X	352	70.397	28.396	59.581	0.00	0.00
ATOM	5284	CA	ARG	X	352	68.465	29.062	60.126	0.00	0.00
ATOM	5285	HA	ARG	X	352	67.627	28.713	59.523	0.00	0.00
ATOM	5286	CB	ARG	X	352	68.581	28.199	61.418	0.00	0.00
ATOM	5287	HB2	ARG	X	352	69.517	28.408	61.936	0.00	0.00
ATOM	5288	HB3	ARG	X	352	67.789	28.435	62.130	0.00	0.00
ATOM	5289	CG	ARG	X	352	68.549	26.743	61.055	0.00	0.00
ATOM	5290	HG2	ARG	X	352	67.650	26.555	60.468	0.00	0.00
ATOM	5291	HG3	ARG	X	352	69.342	26.552	60.332	0.00	0.00
ATOM	5292	CD	ARG	X	352	68.687	25.722	62.240	0.00	0.00
ATOM	5293	HD2	ARG	X	352	68.612	24.683	61.922	0.00	0.00
ATOM	5294	HD3	ARG	X	352	69.671	25.873	62.684	0.00	0.00
ATOM	5295	NE	ARG	X	352	67.713	25.999	63.319	0.00	0.00
ATOM	5296	HE	ARG	X	352	67.967	26.367	64.224	0.00	0.00
ATOM	5297	CZ	ARG	X	352	66.461	25.654	63.255	0.00	0.00
ATOM	5298	NH1	ARG	X	352	65.908	24.970	62.248	0.00	0.00
ATOM	5299	HH11	ARG	X	352	66.471	24.696	61.456	0.00	0.00
ATOM	5300	HH12	ARG	X	352	64.907	24.851	62.314	0.00	0.00
ATOM	5301	NH2	ARG	X	352	65.671	25.916	64.285	0.00	0.00
ATOM	5302	HH21	ARG	X	352	66.045	26.338	65.123	0.00	0.00
ATOM	5303	HH22	ARG	X	352	64.671	25.819	64.185	0.00	0.00
ATOM	5304	C	ARG	X	352	68.324	30.526	60.560	0.00	0.00
ATOM	5305	O	ARG	X	352	67.182	31.037	60.699	0.00	0.00
ATOM	5306	N	ALA	X	353	69.444	31.215	60.750	0.00	0.00
ATOM	5307	H	ALA	X	353	70.344	30.793	60.575	0.00	0.00
ATOM	5308	CA	ALA	X	353	69.408	32.639	61.172	0.00	0.00
ATOM	5309	HA	ALA	X	353	68.672	32.761	61.966	0.00	0.00
ATOM	5310	CB	ALA	X	353	70.728	33.248	61.601	0.00	0.00
ATOM	5311	HB1	ALA	X	353	71.233	32.656	62.365	0.00	0.00
ATOM	5312	HB2	ALA	X	353	70.655	34.297	61.886	0.00	0.00
ATOM	5313	HB3	ALA	X	353	71.341	33.255	60.700	0.00	0.00
ATOM	5314	C	ALA	X	353	68.886	33.629	60.079	0.00	0.00
ATOM	5315	O	ALA	X	353	68.235	34.564	60.484	0.00	0.00
ATOM	5316	N	GLU	X	354	68.999	33.338	58.831	0.00	0.00
ATOM	5317	H	GLU	X	354	69.521	32.522	58.547	0.00	0.00
ATOM	5318	CA	GLU	X	354	68.310	34.048	57.776	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.279	35.102	58.052	0.00	0.00
ATOM	5320	CB	GLU	X	354	69.077	34.077	56.375	0.00	0.00
ATOM	5321	HB2	GLU	X	354	69.060	33.030	56.072	0.00	0.00
ATOM	5322	HB3	GLU	X	354	68.610	34.786	55.692	0.00	0.00
ATOM	5323	CG	GLU	X	354	70.566	34.622	56.498	0.00	0.00
ATOM	5324	HG2	GLU	X	354	70.610	35.711	56.508	0.00	0.00
ATOM	5325	HG3	GLU	X	354	71.020	34.357	57.453	0.00	0.00
ATOM	5326	CD	GLU	X	354	71.460	34.047	55.435	0.00	0.00
ATOM	5327	OE1	GLU	X	354	71.723	32.815	55.498	0.00	0.00
ATOM	5328	OE2	GLU	X	354	71.972	34.918	54.668	0.00	0.00
ATOM	5329	C	GLU	X	354	66.939	33.590	57.512	0.00	0.00
ATOM	5330	O	GLU	X	354	66.214	34.480	57.142	0.00	0.00
ATOM	5331	N	PHE	X	355	66.498	32.374	57.671	0.00	0.00

ATOM	5332	H	PHE	X	355	67.194	31.726	58.014	0.00	0.00
ATOM	5333	CA	PHE	X	355	65.147	31.901	57.684	0.00	0.00
ATOM	5334	HA	PHE	X	355	64.626	32.396	56.863	0.00	0.00
ATOM	5335	CB	PHE	X	355	65.167	30.401	57.691	0.00	0.00
ATOM	5336	HB2	PHE	X	355	65.557	30.034	56.742	0.00	0.00
ATOM	5337	HB3	PHE	X	355	65.866	29.978	58.413	0.00	0.00
ATOM	5338	CG	PHE	X	355	63.810	29.744	57.888	0.00	0.00
ATOM	5339	CD1	PHE	X	355	62.904	29.593	56.834	0.00	0.00
ATOM	5340	HD1	PHE	X	355	63.100	29.914	55.822	0.00	0.00
ATOM	5341	CE1	PHE	X	355	61.571	29.217	57.055	0.00	0.00
ATOM	5342	HE1	PHE	X	355	60.871	29.245	56.233	0.00	0.00
ATOM	5343	CZ	PHE	X	355	61.177	29.014	58.366	0.00	0.00
ATOM	5344	HZ	PHE	X	355	60.158	28.773	58.630	0.00	0.00
ATOM	5345	CE2	PHE	X	355	62.117	29.031	59.394	0.00	0.00
ATOM	5346	HE2	PHE	X	355	61.788	28.790	60.394	0.00	0.00
ATOM	5347	CD2	PHE	X	355	63.451	29.377	59.171	0.00	0.00
ATOM	5348	HD2	PHE	X	355	64.132	29.420	60.008	0.00	0.00
ATOM	5349	C	PHE	X	355	64.332	32.529	58.851	0.00	0.00
ATOM	5350	O	PHE	X	355	63.220	32.981	58.675	0.00	0.00
ATOM	5351	N	LEU	X	356	64.954	32.729	60.015	0.00	0.00
ATOM	5352	H	LEU	X	356	65.882	32.329	60.017	0.00	0.00
ATOM	5353	CA	LEU	X	356	64.470	33.583	61.086	0.00	0.00
ATOM	5354	HA	LEU	X	356	63.486	33.209	61.368	0.00	0.00
ATOM	5355	CB	LEU	X	356	65.273	33.451	62.380	0.00	0.00
ATOM	5356	HB2	LEU	X	356	65.344	32.426	62.744	0.00	0.00
ATOM	5357	HB3	LEU	X	356	66.296	33.825	62.346	0.00	0.00
ATOM	5358	CG	LEU	X	356	64.669	34.202	63.588	0.00	0.00
ATOM	5359	HG	LEU	X	356	63.595	34.317	63.439	0.00	0.00
ATOM	5360	CD1	LEU	X	356	64.833	33.390	64.821	0.00	0.00
ATOM	5361	HD11	LEU	X	356	64.090	32.593	64.840	0.00	0.00
ATOM	5362	HD12	LEU	X	356	64.676	33.888	65.778	0.00	0.00
ATOM	5363	HD13	LEU	X	356	65.821	32.937	64.902	0.00	0.00
ATOM	5364	CD2	LEU	X	356	65.066	35.707	63.754	0.00	0.00
ATOM	5365	HD21	LEU	X	356	65.262	36.188	62.795	0.00	0.00
ATOM	5366	HD22	LEU	X	356	64.286	36.307	64.223	0.00	0.00
ATOM	5367	HD23	LEU	X	356	65.896	35.798	64.454	0.00	0.00
ATOM	5368	C	LEU	X	356	64.292	35.064	60.672	0.00	0.00
ATOM	5369	O	LEU	X	356	63.211	35.575	61.000	0.00	0.00
ATOM	5370	N	ALA	X	357	65.187	35.649	59.920	0.00	0.00
ATOM	5371	H	ALA	X	357	66.079	35.187	59.811	0.00	0.00
ATOM	5372	CA	ALA	X	357	64.968	36.915	59.340	0.00	0.00
ATOM	5373	HA	ALA	X	357	64.673	37.630	60.108	0.00	0.00
ATOM	5374	CB	ALA	X	357	66.293	37.468	58.758	0.00	0.00
ATOM	5375	HB1	ALA	X	357	66.852	36.747	58.162	0.00	0.00
ATOM	5376	HB2	ALA	X	357	67.033	37.710	59.521	0.00	0.00
ATOM	5377	HB3	ALA	X	357	66.183	38.430	58.256	0.00	0.00
ATOM	5378	C	ALA	X	357	63.857	36.919	58.299	0.00	0.00
ATOM	5379	O	ALA	X	357	63.022	37.804	58.281	0.00	0.00
ATOM	5380	N	GLY	X	358	63.788	35.917	57.482	0.00	0.00
ATOM	5381	H	GLY	X	358	64.593	35.320	57.354	0.00	0.00
ATOM	5382	CA	GLY	X	358	62.768	35.565	56.534	0.00	0.00
ATOM	5383	HA2	GLY	X	358	62.681	36.352	55.784	0.00	0.00
ATOM	5384	HA3	GLY	X	358	62.926	34.628	56.000	0.00	0.00
ATOM	5385	C	GLY	X	358	61.387	35.509	57.193	0.00	0.00
ATOM	5386	O	GLY	X	358	60.509	36.262	56.787	0.00	0.00
ATOM	5387	N	VAL	X	359	61.221	34.752	58.287	0.00	0.00
ATOM	5388	H	VAL	X	359	62.035	34.242	58.600	0.00	0.00
ATOM	5389	CA	VAL	X	359	59.969	34.625	59.097	0.00	0.00
ATOM	5390	HA	VAL	X	359	59.144	34.392	58.422	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.155	33.484	60.165	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.117	33.645	60.651	0.00	0.00
ATOM	5393	CG1	VAL	X	359	59.233	33.527	61.312	0.00	0.00
ATOM	5394	HG11	VAL	X	359	59.184	32.641	61.946	0.00	0.00
ATOM	5395	HG12	VAL	X	359	59.188	34.468	61.859	0.00	0.00
ATOM	5396	HG13	VAL	X	359	58.250	33.574	60.844	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.167	32.051	59.517	0.00	0.00
ATOM	5398	HG21	VAL	X	359	59.520	32.069	58.640	0.00	0.00

ATOM	5399	HG22	VAL	X	359	59.993	31.284	60.272	0.00	0.00
ATOM	5400	HG23	VAL	X	359	61.145	31.799	59.109	0.00	0.00
ATOM	5401	C	VAL	X	359	59.662	35.974	59.698	0.00	0.00
ATOM	5402	O	VAL	X	359	58.489	36.344	59.769	0.00	0.00
ATOM	5403	N	ARG	X	360	60.696	36.752	60.185	0.00	0.00
ATOM	5404	H	ARG	X	360	61.612	36.331	60.118	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.503	38.098	60.708	0.00	0.00
ATOM	5406	HA	ARG	X	360	59.688	37.997	61.424	0.00	0.00
ATOM	5407	CB	ARG	X	360	61.824	38.579	61.334	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.317	37.753	61.846	0.00	0.00
ATOM	5409	HB3	ARG	X	360	62.478	38.928	60.535	0.00	0.00
ATOM	5410	CG	ARG	X	360	61.618	39.724	62.419	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.142	40.607	61.994	0.00	0.00
ATOM	5412	HG3	ARG	X	360	61.089	39.461	63.335	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.065	40.314	62.760	0.00	0.00
ATOM	5414	HD2	ARG	X	360	63.073	41.156	63.453	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.574	39.443	63.174	0.00	0.00
ATOM	5416	NE	ARG	X	360	63.846	40.851	61.571	0.00	0.00
ATOM	5417	HE	ARG	X	360	63.280	41.435	60.972	0.00	0.00
ATOM	5418	CZ	ARG	X	360	65.147	40.923	61.458	0.00	0.00
ATOM	5419	NH1	ARG	X	360	66.050	40.247	62.178	0.00	0.00
ATOM	5420	HH11	ARG	X	360	65.756	39.678	62.960	0.00	0.00
ATOM	5421	HH12	ARG	X	360	66.976	40.120	61.796	0.00	0.00
ATOM	5422	NH2	ARG	X	360	65.624	41.658	60.404	0.00	0.00
ATOM	5423	HH21	ARG	X	360	64.909	42.228	59.975	0.00	0.00
ATOM	5424	HH22	ARG	X	360	66.601	41.699	60.153	0.00	0.00
ATOM	5425	C	ARG	X	360	60.035	39.231	59.742	0.00	0.00
ATOM	5426	O	ARG	X	360	59.031	39.885	60.007	0.00	0.00
ATOM	5427	N	VAL	X	361	60.624	39.345	58.485	0.00	0.00
ATOM	5428	H	VAL	X	361	61.411	38.730	58.336	0.00	0.00
ATOM	5429	CA	VAL	X	361	59.939	40.067	57.380	0.00	0.00
ATOM	5430	HA	VAL	X	361	59.565	40.999	57.802	0.00	0.00
ATOM	5431	CB	VAL	X	361	60.922	40.590	56.320	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.506	41.447	55.790	0.00	0.00
ATOM	5433	CG1	VAL	X	361	62.128	41.241	56.906	0.00	0.00
ATOM	5434	HG11	VAL	X	361	62.840	41.444	56.107	0.00	0.00
ATOM	5435	HG12	VAL	X	361	61.961	42.188	57.419	0.00	0.00
ATOM	5436	HG13	VAL	X	361	62.669	40.558	57.562	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.415	39.492	55.376	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.970	38.547	55.686	0.00	0.00
ATOM	5439	HG22	VAL	X	361	62.500	39.476	55.276	0.00	0.00
ATOM	5440	HG23	VAL	X	361	60.994	39.644	54.382	0.00	0.00
ATOM	5441	C	VAL	X	361	58.792	39.266	56.652	0.00	0.00
ATOM	5442	O	VAL	X	361	58.146	39.860	55.811	0.00	0.00
ATOM	5443	N	GLY	X	362	58.524	38.040	57.092	0.00	0.00
ATOM	5444	H	GLY	X	362	59.064	37.558	57.796	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.521	37.135	56.395	0.00	0.00
ATOM	5446	HA2	GLY	X	362	57.370	37.232	55.320	0.00	0.00
ATOM	5447	HA3	GLY	X	362	58.018	36.166	56.369	0.00	0.00
ATOM	5448	C	GLY	X	362	56.127	36.884	57.093	0.00	0.00
ATOM	5449	O	GLY	X	362	55.136	36.561	56.368	0.00	0.00
ATOM	5450	N	VAL	X	363	56.181	37.061	58.393	0.00	0.00
ATOM	5451	H	VAL	X	363	57.023	37.183	58.937	0.00	0.00
ATOM	5452	CA	VAL	X	363	54.972	37.307	59.191	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.218	37.281	58.404	0.00	0.00
ATOM	5454	CB	VAL	X	363	54.731	36.234	60.305	0.00	0.00
ATOM	5455	HB	VAL	X	363	55.457	36.383	61.104	0.00	0.00
ATOM	5456	CG1	VAL	X	363	53.321	36.349	60.854	0.00	0.00
ATOM	5457	HG11	VAL	X	363	53.210	35.476	61.498	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.160	37.292	61.376	0.00	0.00
ATOM	5459	HG13	VAL	X	363	52.534	36.261	60.106	0.00	0.00
ATOM	5460	CG2	VAL	X	363	54.958	34.839	59.838	0.00	0.00
ATOM	5461	HG21	VAL	X	363	54.215	34.551	59.095	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.045	34.125	60.657	0.00	0.00
ATOM	5463	HG23	VAL	X	363	55.893	34.842	59.277	0.00	0.00
ATOM	5464	C	VAL	X	363	54.983	38.652	59.858	0.00	0.00
ATOM	5465	O	VAL	X	363	55.896	38.915	60.614	0.00	0.00

ATOM	5466	N	PRO	X	364	53.941	39.543	59.745	0.00	0.00
ATOM	5467	CD	PRO	X	364	52.813	39.436	58.883	0.00	0.00
ATOM	5468	HD2	PRO	X	364	52.413	38.425	58.959	0.00	0.00
ATOM	5469	HD3	PRO	X	364	53.090	39.688	57.860	0.00	0.00
ATOM	5470	CG	PRO	X	364	51.801	40.460	59.418	0.00	0.00
ATOM	5471	HG2	PRO	X	364	51.251	40.055	60.268	0.00	0.00
ATOM	5472	HG3	PRO	X	364	51.003	40.744	58.732	0.00	0.00
ATOM	5473	CB	PRO	X	364	52.641	41.650	59.904	0.00	0.00
ATOM	5474	HB2	PRO	X	364	52.076	42.278	60.592	0.00	0.00
ATOM	5475	HB3	PRO	X	364	52.897	42.219	59.010	0.00	0.00
ATOM	5476	CA	PRO	X	364	53.898	40.851	60.421	0.00	0.00
ATOM	5477	HA	PRO	X	364	54.805	41.426	60.233	0.00	0.00
ATOM	5478	C	PRO	X	364	53.802	40.687	61.999	0.00	0.00
ATOM	5479	O	PRO	X	364	53.362	39.648	62.398	0.00	0.00
ATOM	5480	N	GLN	X	365	54.174	41.674	62.739	0.00	0.00
ATOM	5481	H	GLN	X	365	54.559	42.479	62.267	0.00	0.00
ATOM	5482	CA	GLN	X	365	54.159	41.846	64.183	0.00	0.00
ATOM	5483	HA	GLN	X	365	54.662	42.794	64.373	0.00	0.00
ATOM	5484	CB	GLN	X	365	52.717	41.960	64.590	0.00	0.00
ATOM	5485	HB2	GLN	X	365	52.184	42.446	63.772	0.00	0.00
ATOM	5486	HB3	GLN	X	365	52.294	40.965	64.721	0.00	0.00
ATOM	5487	CG	GLN	X	365	52.414	42.737	65.888	0.00	0.00
ATOM	5488	HG2	GLN	X	365	53.061	42.332	66.666	0.00	0.00
ATOM	5489	HG3	GLN	X	365	52.876	43.704	65.691	0.00	0.00
ATOM	5490	CD	GLN	X	365	50.919	42.635	66.319	0.00	0.00
ATOM	5491	OE1	GLN	X	365	50.636	42.029	67.349	0.00	0.00
ATOM	5492	NE2	GLN	X	365	49.952	43.110	65.535	0.00	0.00
ATOM	5493	HE21	GLN	X	365	49.060	43.051	66.005	0.00	0.00
ATOM	5494	HE22	GLN	X	365	50.099	43.712	64.738	0.00	0.00
ATOM	5495	C	GLN	X	365	55.159	40.936	64.963	0.00	0.00
ATOM	5496	O	GLN	X	365	55.457	41.381	66.076	0.00	0.00
ATOM	5497	N	VAL	X	366	55.629	39.787	64.400	0.00	0.00
ATOM	5498	H	VAL	X	366	55.161	39.541	63.539	0.00	0.00
ATOM	5499	CA	VAL	X	366	56.612	38.846	64.898	0.00	0.00
ATOM	5500	HA	VAL	X	366	56.393	38.733	65.960	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.483	37.485	64.094	0.00	0.00
ATOM	5502	HB	VAL	X	366	56.556	37.607	63.013	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.639	36.657	64.654	0.00	0.00
ATOM	5504	HG11	VAL	X	366	57.519	35.619	64.342	0.00	0.00
ATOM	5505	HG12	VAL	X	366	58.617	36.977	64.294	0.00	0.00
ATOM	5506	HG13	VAL	X	366	57.680	36.790	65.735	0.00	0.00
ATOM	5507	CG2	VAL	X	366	55.233	36.671	64.498	0.00	0.00
ATOM	5508	HG21	VAL	X	366	55.055	35.759	63.928	0.00	0.00
ATOM	5509	HG22	VAL	X	366	54.353	37.274	64.276	0.00	0.00
ATOM	5510	HG23	VAL	X	366	55.290	36.413	65.556	0.00	0.00
ATOM	5511	C	VAL	X	366	57.969	39.560	64.804	0.00	0.00
ATOM	5512	O	VAL	X	366	58.434	40.008	63.738	0.00	0.00
ATOM	5513	N	SER	X	367	58.569	39.761	66.008	0.00	0.00
ATOM	5514	H	SER	X	367	58.034	39.358	66.764	0.00	0.00
ATOM	5515	CA	SER	X	367	59.817	40.492	66.233	0.00	0.00
ATOM	5516	HA	SER	X	367	59.983	41.104	65.347	0.00	0.00
ATOM	5517	CB	SER	X	367	59.887	41.362	67.521	0.00	0.00
ATOM	5518	HB2	SER	X	367	60.907	41.478	67.888	0.00	0.00
ATOM	5519	HB3	SER	X	367	59.356	42.307	67.405	0.00	0.00
ATOM	5520	OG	SER	X	367	59.227	40.677	68.610	0.00	0.00
ATOM	5521	HG	SER	X	367	58.338	41.005	68.456	0.00	0.00
ATOM	5522	C	SER	X	367	61.001	39.412	66.221	0.00	0.00
ATOM	5523	O	SER	X	367	60.697	38.243	66.532	0.00	0.00
ATOM	5524	N	ASP	X	368	62.265	39.831	66.214	0.00	0.00
ATOM	5525	H	ASP	X	368	62.356	40.837	66.237	0.00	0.00
ATOM	5526	CA	ASP	X	368	63.353	38.976	66.422	0.00	0.00
ATOM	5527	HA	ASP	X	368	63.322	38.138	65.725	0.00	0.00
ATOM	5528	CB	ASP	X	368	64.632	39.855	66.186	0.00	0.00
ATOM	5529	HB2	ASP	X	368	64.555	40.537	65.338	0.00	0.00
ATOM	5530	HB3	ASP	X	368	64.771	40.438	67.096	0.00	0.00
ATOM	5531	CG	ASP	X	368	65.958	39.096	65.897	0.00	0.00
ATOM	5532	OD1	ASP	X	368	66.560	38.616	66.867	0.00	0.00

ATOM	5533	OD2	ASP	X	368	66.356	39.079	64.728	0.00	0.00
ATOM	5534	C	ASP	X	368	63.315	38.381	67.863	0.00	0.00
ATOM	5535	O	ASP	X	368	63.936	37.285	68.100	0.00	0.00
ATOM	5536	N	LEU	X	369	62.607	38.983	68.808	0.00	0.00
ATOM	5537	H	LEU	X	369	62.182	39.879	68.616	0.00	0.00
ATOM	5538	CA	LEU	X	369	62.468	38.413	70.102	0.00	0.00
ATOM	5539	HA	LEU	X	369	63.486	38.068	70.283	0.00	0.00
ATOM	5540	CB	LEU	X	369	62.156	39.424	71.220	0.00	0.00
ATOM	5541	HB2	LEU	X	369	62.792	40.299	71.089	0.00	0.00
ATOM	5542	HB3	LEU	X	369	61.118	39.709	71.046	0.00	0.00
ATOM	5543	CG	LEU	X	369	62.200	39.022	72.662	0.00	0.00
ATOM	5544	HG	LEU	X	369	61.509	38.210	72.889	0.00	0.00
ATOM	5545	CD1	LEU	X	369	63.641	38.490	73.025	0.00	0.00
ATOM	5546	HD11	LEU	X	369	63.692	38.024	74.009	0.00	0.00
ATOM	5547	HD12	LEU	X	369	64.312	39.348	72.994	0.00	0.00
ATOM	5548	HD13	LEU	X	369	63.929	37.779	72.251	0.00	0.00
ATOM	5549	CD2	LEU	X	369	61.815	40.304	73.515	0.00	0.00
ATOM	5550	HD21	LEU	X	369	61.864	40.163	74.595	0.00	0.00
ATOM	5551	HD22	LEU	X	369	62.521	41.100	73.275	0.00	0.00
ATOM	5552	HD23	LEU	X	369	60.812	40.713	73.398	0.00	0.00
ATOM	5553	C	LEU	X	369	61.532	37.184	70.062	0.00	0.00
ATOM	5554	O	LEU	X	369	61.781	36.176	70.708	0.00	0.00
ATOM	5555	N	ALA	X	370	60.458	37.205	69.311	0.00	0.00
ATOM	5556	H	ALA	X	370	60.349	38.036	68.748	0.00	0.00
ATOM	5557	CA	ALA	X	370	59.456	36.179	69.206	0.00	0.00
ATOM	5558	HA	ALA	X	370	59.513	35.521	70.073	0.00	0.00
ATOM	5559	CB	ALA	X	370	58.091	36.847	69.264	0.00	0.00
ATOM	5560	HB1	ALA	X	370	57.370	36.035	69.160	0.00	0.00
ATOM	5561	HB2	ALA	X	370	57.991	37.654	68.539	0.00	0.00
ATOM	5562	HB3	ALA	X	370	58.109	37.318	70.246	0.00	0.00
ATOM	5563	C	ALA	X	370	59.581	35.098	68.101	0.00	0.00
ATOM	5564	O	ALA	X	370	59.221	33.971	68.353	0.00	0.00
ATOM	5565	N	ALA	X	371	60.221	35.456	66.970	0.00	0.00
ATOM	5566	H	ALA	X	371	60.531	36.417	66.940	0.00	0.00
ATOM	5567	CA	ALA	X	371	60.424	34.633	65.800	0.00	0.00
ATOM	5568	HA	ALA	X	371	59.491	34.588	65.237	0.00	0.00
ATOM	5569	CB	ALA	X	371	61.421	35.302	64.902	0.00	0.00
ATOM	5570	HB1	ALA	X	371	62.330	35.532	65.459	0.00	0.00
ATOM	5571	HB2	ALA	X	371	61.116	36.240	64.439	0.00	0.00
ATOM	5572	HB3	ALA	X	371	61.660	34.583	64.119	0.00	0.00
ATOM	5573	C	ALA	X	371	60.763	33.193	66.061	0.00	0.00
ATOM	5574	O	ALA	X	371	60.274	32.314	65.316	0.00	0.00
ATOM	5575	N	GLU	X	372	61.618	33.001	66.980	0.00	0.00
ATOM	5576	H	GLU	X	372	61.830	33.814	67.541	0.00	0.00
ATOM	5577	CA	GLU	X	372	62.105	31.700	67.407	0.00	0.00
ATOM	5578	HA	GLU	X	372	62.770	31.294	66.645	0.00	0.00
ATOM	5579	CB	GLU	X	372	63.016	31.690	68.691	0.00	0.00
ATOM	5580	HB2	GLU	X	372	62.999	30.657	69.038	0.00	0.00
ATOM	5581	HB3	GLU	X	372	64.048	31.917	68.424	0.00	0.00
ATOM	5582	CG	GLU	X	372	62.497	32.466	69.835	0.00	0.00
ATOM	5583	HG2	GLU	X	372	62.668	33.519	69.610	0.00	0.00
ATOM	5584	HG3	GLU	X	372	61.424	32.350	69.986	0.00	0.00
ATOM	5585	CD	GLU	X	372	63.072	32.042	71.191	0.00	0.00
ATOM	5586	OE1	GLU	X	372	62.354	32.017	72.171	0.00	0.00
ATOM	5587	OE2	GLU	X	372	64.295	31.765	71.303	0.00	0.00
ATOM	5588	C	GLU	X	372	60.932	30.662	67.608	0.00	0.00
ATOM	5589	O	GLU	X	372	60.982	29.586	67.117	0.00	0.00
ATOM	5590	N	ALA	X	373	59.852	31.126	68.280	0.00	0.00
ATOM	5591	H	ALA	X	373	59.992	32.061	68.636	0.00	0.00
ATOM	5592	CA	ALA	X	373	58.677	30.361	68.610	0.00	0.00
ATOM	5593	HA	ALA	X	373	59.064	29.380	68.884	0.00	0.00
ATOM	5594	CB	ALA	X	373	57.989	31.053	69.838	0.00	0.00
ATOM	5595	HB1	ALA	X	373	57.081	30.549	70.167	0.00	0.00
ATOM	5596	HB2	ALA	X	373	57.930	32.125	69.650	0.00	0.00
ATOM	5597	HB3	ALA	X	373	58.669	31.034	70.690	0.00	0.00
ATOM	5598	C	ALA	X	373	57.750	30.152	67.379	0.00	0.00
ATOM	5599	O	ALA	X	373	57.033	29.155	67.331	0.00	0.00

ATOM	5600	N	VAL	X	374	57.993	30.871	66.289	0.00	0.00
ATOM	5601	H	VAL	X	374	58.589	31.676	66.417	0.00	0.00
ATOM	5602	CA	VAL	X	374	57.465	30.791	64.913	0.00	0.00
ATOM	5603	HA	VAL	X	374	56.504	30.294	65.048	0.00	0.00
ATOM	5604	CB	VAL	X	374	57.119	32.098	64.322	0.00	0.00
ATOM	5605	HB	VAL	X	374	58.004	32.712	64.156	0.00	0.00
ATOM	5606	CG1	VAL	X	374	56.376	31.872	62.946	0.00	0.00
ATOM	5607	HG11	VAL	X	374	56.061	32.853	62.591	0.00	0.00
ATOM	5608	HG12	VAL	X	374	57.073	31.374	62.272	0.00	0.00
ATOM	5609	HG13	VAL	X	374	55.541	31.188	63.098	0.00	0.00
ATOM	5610	CG2	VAL	X	374	56.122	32.902	65.197	0.00	0.00
ATOM	5611	HG21	VAL	X	374	56.605	33.362	66.058	0.00	0.00
ATOM	5612	HG22	VAL	X	374	55.220	32.318	65.378	0.00	0.00
ATOM	5613	HG23	VAL	X	374	55.802	33.845	64.753	0.00	0.00
ATOM	5614	C	VAL	X	374	58.392	29.873	64.065	0.00	0.00
ATOM	5615	O	VAL	X	374	57.901	29.114	63.203	0.00	0.00
ATOM	5616	N	VAL	X	375	59.714	29.801	64.280	0.00	0.00
ATOM	5617	H	VAL	X	375	60.053	30.454	64.972	0.00	0.00
ATOM	5618	CA	VAL	X	375	60.734	29.044	63.545	0.00	0.00
ATOM	5619	HA	VAL	X	375	60.357	28.964	62.525	0.00	0.00
ATOM	5620	CB	VAL	X	375	62.144	29.614	63.575	0.00	0.00
ATOM	5621	HB	VAL	X	375	62.390	29.941	64.585	0.00	0.00
ATOM	5622	CG1	VAL	X	375	63.245	28.654	63.168	0.00	0.00
ATOM	5623	HG11	VAL	X	375	63.389	27.844	63.884	0.00	0.00
ATOM	5624	HG12	VAL	X	375	62.958	28.324	62.170	0.00	0.00
ATOM	5625	HG13	VAL	X	375	64.182	29.211	63.135	0.00	0.00
ATOM	5626	CG2	VAL	X	375	62.031	30.888	62.719	0.00	0.00
ATOM	5627	HG21	VAL	X	375	62.923	31.480	62.925	0.00	0.00
ATOM	5628	HG22	VAL	X	375	61.147	31.513	62.845	0.00	0.00
ATOM	5629	HG23	VAL	X	375	61.982	30.504	61.701	0.00	0.00
ATOM	5630	C	VAL	X	375	60.799	27.593	64.076	0.00	0.00
ATOM	5631	O	VAL	X	375	61.080	26.681	63.322	0.00	0.00
ATOM	5632	N	LEU	X	376	60.591	27.302	65.340	0.00	0.00
ATOM	5633	H	LEU	X	376	60.505	28.093	65.963	0.00	0.00
ATOM	5634	CA	LEU	X	376	60.276	25.961	65.904	0.00	0.00
ATOM	5635	HA	LEU	X	376	61.133	25.292	65.827	0.00	0.00
ATOM	5636	CB	LEU	X	376	60.152	26.186	67.419	0.00	0.00
ATOM	5637	HB2	LEU	X	376	61.022	26.760	67.738	0.00	0.00
ATOM	5638	HB3	LEU	X	376	59.273	26.784	67.661	0.00	0.00
ATOM	5639	CG	LEU	X	376	60.107	24.925	68.266	0.00	0.00
ATOM	5640	HG	LEU	X	376	60.198	25.238	69.306	0.00	0.00
ATOM	5641	CD1	LEU	X	376	58.809	24.054	68.154	0.00	0.00
ATOM	5642	HD11	LEU	X	376	58.882	23.379	69.007	0.00	0.00
ATOM	5643	HD12	LEU	X	376	58.731	23.474	67.234	0.00	0.00
ATOM	5644	HD13	LEU	X	376	57.924	24.690	68.145	0.00	0.00
ATOM	5645	CD2	LEU	X	376	61.276	24.011	68.144	0.00	0.00
ATOM	5646	HD21	LEU	X	376	61.246	23.733	67.090	0.00	0.00
ATOM	5647	HD22	LEU	X	376	62.221	24.522	68.330	0.00	0.00
ATOM	5648	HD23	LEU	X	376	61.179	23.121	68.765	0.00	0.00
ATOM	5649	C	LEU	X	376	58.995	25.319	65.305	0.00	0.00
ATOM	5650	O	LEU	X	376	59.142	24.171	64.896	0.00	0.00
ATOM	5651	N	HIE	X	377	57.875	26.082	65.082	0.00	0.00
ATOM	5652	H	HIE	X	377	57.920	27.031	65.424	0.00	0.00
ATOM	5653	CA	HIE	X	377	56.683	25.657	64.400	0.00	0.00
ATOM	5654	HA	HIE	X	377	56.190	24.900	65.010	0.00	0.00
ATOM	5655	CB	HIE	X	377	55.771	26.819	64.530	0.00	0.00
ATOM	5656	HB2	HIE	X	377	55.423	26.906	65.559	0.00	0.00
ATOM	5657	HB3	HIE	X	377	56.356	27.700	64.264	0.00	0.00
ATOM	5658	CG	HIE	X	377	54.580	26.748	63.576	0.00	0.00
ATOM	5659	ND1	HIE	X	377	53.270	26.484	63.848	0.00	0.00
ATOM	5660	CE1	HIE	X	377	52.452	26.880	62.903	0.00	0.00
ATOM	5661	HE1	HIE	X	377	51.384	26.718	62.894	0.00	0.00
ATOM	5662	NE2	HIE	X	377	53.219	27.503	61.979	0.00	0.00
ATOM	5663	HE2	HIE	X	377	52.889	28.034	61.186	0.00	0.00
ATOM	5664	CD2	HIE	X	377	54.534	27.428	62.393	0.00	0.00
ATOM	5665	HD2	HIE	X	377	55.223	28.028	61.819	0.00	0.00
ATOM	5666	C	HIE	X	377	56.905	25.129	62.921	0.00	0.00

ATOM	5667	O	HIE	X	377	56.235	24.113	62.588	0.00	0.00
ATOM	5668	N	TYR	X	378	57.861	25.683	62.130	0.00	0.00
ATOM	5669	H	TYR	X	378	58.176	26.580	62.471	0.00	0.00
ATOM	5670	CA	TYR	X	378	58.302	25.162	60.792	0.00	0.00
ATOM	5671	HA	TYR	X	378	57.531	24.534	60.346	0.00	0.00
ATOM	5672	CB	TYR	X	378	58.501	26.368	59.845	0.00	0.00
ATOM	5673	HB2	TYR	X	378	58.802	27.205	60.474	0.00	0.00
ATOM	5674	HB3	TYR	X	378	59.290	26.092	59.144	0.00	0.00
ATOM	5675	CG	TYR	X	378	57.250	26.762	59.129	0.00	0.00
ATOM	5676	CD1	TYR	X	378	56.831	25.994	58.067	0.00	0.00
ATOM	5677	HD1	TYR	X	378	57.424	25.131	57.800	0.00	0.00
ATOM	5678	CE1	TYR	X	378	55.700	26.319	57.316	0.00	0.00
ATOM	5679	HE1	TYR	X	378	55.333	25.786	56.451	0.00	0.00
ATOM	5680	CZ	TYR	X	378	54.893	27.327	57.799	0.00	0.00
ATOM	5681	OH	TYR	X	378	53.657	27.642	57.276	0.00	0.00
ATOM	5682	HH	TYR	X	378	53.390	27.053	56.566	0.00	0.00
ATOM	5683	CE2	TYR	X	378	55.298	28.107	58.915	0.00	0.00
ATOM	5684	HE2	TYR	X	378	54.678	28.913	59.279	0.00	0.00
ATOM	5685	CD2	TYR	X	378	56.521	27.842	59.549	0.00	0.00
ATOM	5686	HD2	TYR	X	378	56.879	28.519	60.310	0.00	0.00
ATOM	5687	C	TYR	X	378	59.539	24.250	60.807	0.00	0.00
ATOM	5688	O	TYR	X	378	59.866	23.661	59.770	0.00	0.00
ATOM	5689	N	THR	X	379	60.265	24.127	61.932	0.00	0.00
ATOM	5690	H	THR	X	379	59.984	24.561	62.800	0.00	0.00
ATOM	5691	CA	THR	X	379	61.530	23.323	61.965	0.00	0.00
ATOM	5692	HA	THR	X	379	62.290	23.689	61.275	0.00	0.00
ATOM	5693	CB	THR	X	379	62.051	23.558	63.347	0.00	0.00
ATOM	5694	HB	THR	X	379	61.411	23.397	64.214	0.00	0.00
ATOM	5695	CG2	THR	X	379	63.234	22.508	63.632	0.00	0.00
ATOM	5696	HG21	THR	X	379	63.811	22.414	62.712	0.00	0.00
ATOM	5697	HG22	THR	X	379	62.782	21.544	63.867	0.00	0.00
ATOM	5698	HG23	THR	X	379	63.854	22.852	64.460	0.00	0.00
ATOM	5699	OG1	THR	X	379	62.715	24.814	63.350	0.00	0.00
ATOM	5700	HG1	THR	X	379	62.072	25.527	63.315	0.00	0.00
ATOM	5701	C	THR	X	379	61.185	21.879	61.601	0.00	0.00
ATOM	5702	O	THR	X	379	60.284	21.355	62.273	0.00	0.00
ATOM	5703	N	ASP	X	380	61.785	21.288	60.539	0.00	0.00
ATOM	5704	H	ASP	X	380	62.481	21.777	59.995	0.00	0.00
ATOM	5705	CA	ASP	X	380	61.572	19.868	60.254	0.00	0.00
ATOM	5706	HA	ASP	X	380	60.675	19.382	60.636	0.00	0.00
ATOM	5707	CB	ASP	X	380	61.556	19.665	58.750	0.00	0.00
ATOM	5708	HB2	ASP	X	380	60.866	20.372	58.292	0.00	0.00
ATOM	5709	HB3	ASP	X	380	62.503	19.830	58.235	0.00	0.00
ATOM	5710	CG	ASP	X	380	60.970	18.314	58.359	0.00	0.00
ATOM	5711	OD1	ASP	X	380	60.905	17.980	57.162	0.00	0.00
ATOM	5712	OD2	ASP	X	380	60.962	17.429	59.257	0.00	0.00
ATOM	5713	C	ASP	X	380	62.718	19.049	60.865	0.00	0.00
ATOM	5714	O	ASP	X	380	63.874	19.175	60.468	0.00	0.00
ATOM	5715	N	TRP	X	381	62.322	18.260	61.806	0.00	0.00
ATOM	5716	H	TRP	X	381	61.404	18.340	62.220	0.00	0.00
ATOM	5717	CA	TRP	X	381	63.142	17.330	62.607	0.00	0.00
ATOM	5718	HA	TRP	X	381	64.045	17.846	62.934	0.00	0.00
ATOM	5719	CB	TRP	X	381	62.373	16.717	63.768	0.00	0.00
ATOM	5720	HB2	TRP	X	381	61.684	16.027	63.281	0.00	0.00
ATOM	5721	HB3	TRP	X	381	63.105	16.093	64.279	0.00	0.00
ATOM	5722	CG	TRP	X	381	61.792	17.662	64.854	0.00	0.00
ATOM	5723	CD1	TRP	X	381	60.536	17.708	65.139	0.00	0.00
ATOM	5724	HD1	TRP	X	381	59.691	17.211	64.686	0.00	0.00
ATOM	5725	NE1	TRP	X	381	60.254	18.788	65.921	0.00	0.00
ATOM	5726	HE1	TRP	X	381	59.266	18.853	66.120	0.00	0.00
ATOM	5727	CE2	TRP	X	381	61.362	19.525	66.200	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	61.632	20.594	66.999	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	60.885	21.095	67.597	0.00	0.00
ATOM	5730	CH2	TRP	X	381	62.944	20.958	67.276	0.00	0.00
ATOM	5731	HH2	TRP	X	381	63.127	21.767	67.967	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	64.003	20.270	66.616	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	64.994	20.654	66.812	0.00	0.00

ATOM	5734	CE3	TRP	X	381	63.730	19.165	65.781	0.00	0.00
ATOM	5735	HE3	TRP	X	381	64.505	18.662	65.221	0.00	0.00
ATOM	5736	CD2	TRP	X	381	62.422	18.802	65.585	0.00	0.00
ATOM	5737	C	TRP	X	381	63.817	16.218	61.775	0.00	0.00
ATOM	5738	O	TRP	X	381	64.688	15.576	62.331	0.00	0.00
ATOM	5739	N	LEU	X	382	63.504	16.032	60.458	0.00	0.00
ATOM	5740	H	LEU	X	382	62.737	16.576	60.088	0.00	0.00
ATOM	5741	CA	LEU	X	382	64.312	15.278	59.481	0.00	0.00
ATOM	5742	HA	LEU	X	382	64.332	14.222	59.750	0.00	0.00
ATOM	5743	CB	LEU	X	382	63.445	15.316	58.128	0.00	0.00
ATOM	5744	HB2	LEU	X	382	62.450	15.739	58.268	0.00	0.00
ATOM	5745	HB3	LEU	X	382	63.844	16.116	57.505	0.00	0.00
ATOM	5746	CG	LEU	X	382	63.359	13.995	57.350	0.00	0.00
ATOM	5747	HG	LEU	X	382	62.838	14.137	56.403	0.00	0.00
ATOM	5748	CD1	LEU	X	382	64.743	13.606	57.051	0.00	0.00
ATOM	5749	HD11	LEU	X	382	64.752	12.662	56.506	0.00	0.00
ATOM	5750	HD12	LEU	X	382	65.230	13.387	58.001	0.00	0.00
ATOM	5751	HD13	LEU	X	382	65.198	14.343	56.390	0.00	0.00
ATOM	5752	CD2	LEU	X	382	62.582	12.903	58.191	0.00	0.00
ATOM	5753	HD21	LEU	X	382	61.778	13.453	58.680	0.00	0.00
ATOM	5754	HD22	LEU	X	382	62.164	12.081	57.611	0.00	0.00
ATOM	5755	HD23	LEU	X	382	63.171	12.521	59.025	0.00	0.00
ATOM	5756	C	LEU	X	382	65.717	15.853	59.438	0.00	0.00
ATOM	5757	O	LEU	X	382	66.642	15.093	59.537	0.00	0.00
ATOM	5758	N	HIE	X	383	65.865	17.181	59.315	0.00	0.00
ATOM	5759	H	HIE	X	383	65.094	17.822	59.193	0.00	0.00
ATOM	5760	CA	HIE	X	383	67.166	17.866	59.177	0.00	0.00
ATOM	5761	HA	HIE	X	383	67.874	17.469	59.904	0.00	0.00
ATOM	5762	CB	HIE	X	383	67.742	17.539	57.786	0.00	0.00
ATOM	5763	HB2	HIE	X	383	67.742	16.485	57.505	0.00	0.00
ATOM	5764	HB3	HIE	X	383	67.050	17.992	57.077	0.00	0.00
ATOM	5765	CG	HIE	X	383	69.093	18.200	57.451	0.00	0.00
ATOM	5766	ND1	HIE	X	383	69.660	19.272	58.205	0.00	0.00
ATOM	5767	CE1	HIE	X	383	70.835	19.521	57.747	0.00	0.00
ATOM	5768	HE1	HIE	X	383	71.411	20.402	57.990	0.00	0.00
ATOM	5769	NE2	HIE	X	383	71.119	18.698	56.712	0.00	0.00
ATOM	5770	HE2	HIE	X	383	71.899	18.722	56.071	0.00	0.00
ATOM	5771	CD2	HIE	X	383	70.017	17.851	56.510	0.00	0.00
ATOM	5772	HD2	HIE	X	383	69.846	17.183	55.678	0.00	0.00
ATOM	5773	C	HIE	X	383	66.861	19.341	59.467	0.00	0.00
ATOM	5774	O	HIE	X	383	66.165	19.937	58.611	0.00	0.00
ATOM	5775	N	PRO	X	384	67.108	19.817	60.704	0.00	0.00
ATOM	5776	CD	PRO	X	384	67.291	18.949	61.819	0.00	0.00
ATOM	5777	HD2	PRO	X	384	68.197	18.346	61.765	0.00	0.00
ATOM	5778	HD3	PRO	X	384	66.467	18.236	61.864	0.00	0.00
ATOM	5779	CG	PRO	X	384	67.382	19.881	63.056	0.00	0.00
ATOM	5780	HG2	PRO	X	384	68.383	19.666	63.431	0.00	0.00
ATOM	5781	HG3	PRO	X	384	66.571	19.604	63.729	0.00	0.00
ATOM	5782	CB	PRO	X	384	67.188	21.292	62.582	0.00	0.00
ATOM	5783	HB2	PRO	X	384	68.177	21.746	62.647	0.00	0.00
ATOM	5784	HB3	PRO	X	384	66.494	21.774	63.270	0.00	0.00
ATOM	5785	CA	PRO	X	384	66.687	21.142	61.097	0.00	0.00
ATOM	5786	HA	PRO	X	384	65.598	21.126	61.060	0.00	0.00
ATOM	5787	C	PRO	X	384	67.203	22.265	60.189	0.00	0.00
ATOM	5788	O	PRO	X	384	66.407	23.136	59.903	0.00	0.00
ATOM	5789	N	GLU	X	385	68.423	22.170	59.697	0.00	0.00
ATOM	5790	H	GLU	X	385	69.053	21.388	59.807	0.00	0.00
ATOM	5791	CA	GLU	X	385	69.063	23.317	58.959	0.00	0.00
ATOM	5792	HA	GLU	X	385	68.505	24.222	59.197	0.00	0.00
ATOM	5793	CB	GLU	X	385	70.597	23.447	59.348	0.00	0.00
ATOM	5794	HB2	GLU	X	385	71.056	22.508	59.041	0.00	0.00
ATOM	5795	HB3	GLU	X	385	71.094	24.330	58.948	0.00	0.00
ATOM	5796	CG	GLU	X	385	70.889	23.620	60.860	0.00	0.00
ATOM	5797	HG2	GLU	X	385	70.825	24.696	61.022	0.00	0.00
ATOM	5798	HG3	GLU	X	385	70.240	23.011	61.489	0.00	0.00
ATOM	5799	CD	GLU	X	385	72.321	23.169	61.135	0.00	0.00
ATOM	5800	OE1	GLU	X	385	72.465	21.941	61.359	0.00	0.00

ATOM	5801	OE2	GLU	X	385	73.390	23.875	61.072	0.00	0.00
ATOM	5802	C	GLU	X	385	69.017	23.200	57.444	0.00	0.00
ATOM	5803	O	GLU	X	385	69.711	24.020	56.805	0.00	0.00
ATOM	5804	N	ASP	X	386	68.365	22.157	56.874	0.00	0.00
ATOM	5805	H	ASP	X	386	67.808	21.556	57.465	0.00	0.00
ATOM	5806	CA	ASP	X	386	68.294	21.962	55.433	0.00	0.00
ATOM	5807	HA	ASP	X	386	69.338	21.974	55.122	0.00	0.00
ATOM	5808	CB	ASP	X	386	67.582	20.719	55.113	0.00	0.00
ATOM	5809	HB2	ASP	X	386	67.912	19.884	55.731	0.00	0.00
ATOM	5810	HB3	ASP	X	386	66.533	20.761	55.405	0.00	0.00
ATOM	5811	CG	ASP	X	386	67.691	20.436	53.631	0.00	0.00
ATOM	5812	OD1	ASP	X	386	67.220	21.246	52.817	0.00	0.00
ATOM	5813	OD2	ASP	X	386	68.272	19.387	53.255	0.00	0.00
ATOM	5814	C	ASP	X	386	67.648	23.282	54.704	0.00	0.00
ATOM	5815	O	ASP	X	386	66.578	23.724	55.077	0.00	0.00
ATOM	5816	N	PRO	X	387	68.322	23.821	53.672	0.00	0.00
ATOM	5817	CD	PRO	X	387	69.623	23.425	53.228	0.00	0.00
ATOM	5818	HD2	PRO	X	387	69.591	22.408	52.837	0.00	0.00
ATOM	5819	HD3	PRO	X	387	70.429	23.559	53.949	0.00	0.00
ATOM	5820	CG	PRO	X	387	69.917	24.311	52.031	0.00	0.00
ATOM	5821	HG2	PRO	X	387	69.595	23.828	51.109	0.00	0.00
ATOM	5822	HG3	PRO	X	387	70.992	24.490	52.057	0.00	0.00
ATOM	5823	CB	PRO	X	387	69.078	25.592	52.360	0.00	0.00
ATOM	5824	HB2	PRO	X	387	68.763	26.075	51.435	0.00	0.00
ATOM	5825	HB3	PRO	X	387	69.704	26.178	53.033	0.00	0.00
ATOM	5826	CA	PRO	X	387	67.859	25.067	53.072	0.00	0.00
ATOM	5827	HA	PRO	X	387	67.519	25.769	53.833	0.00	0.00
ATOM	5828	C	PRO	X	387	66.667	24.929	52.156	0.00	0.00
ATOM	5829	O	PRO	X	387	65.976	25.920	51.893	0.00	0.00
ATOM	5830	N	ALA	X	388	66.400	23.736	51.589	0.00	0.00
ATOM	5831	H	ALA	X	388	66.968	22.916	51.747	0.00	0.00
ATOM	5832	CA	ALA	X	388	65.192	23.464	50.729	0.00	0.00
ATOM	5833	HA	ALA	X	388	65.007	24.236	49.981	0.00	0.00
ATOM	5834	CB	ALA	X	388	65.340	22.172	49.955	0.00	0.00
ATOM	5835	HB1	ALA	X	388	65.609	21.383	50.658	0.00	0.00
ATOM	5836	HB2	ALA	X	388	66.201	22.202	49.288	0.00	0.00
ATOM	5837	HB3	ALA	X	388	64.376	21.884	49.534	0.00	0.00
ATOM	5838	C	ALA	X	388	63.972	23.396	51.627	0.00	0.00
ATOM	5839	O	ALA	X	388	62.887	23.912	51.353	0.00	0.00
ATOM	5840	N	ARG	X	389	64.113	22.700	52.772	0.00	0.00
ATOM	5841	H	ARG	X	389	65.042	22.307	52.827	0.00	0.00
ATOM	5842	CA	ARG	X	389	63.175	22.518	53.821	0.00	0.00
ATOM	5843	HA	ARG	X	389	62.204	22.265	53.395	0.00	0.00
ATOM	5844	CB	ARG	X	389	63.612	21.587	55.013	0.00	0.00
ATOM	5845	HB2	ARG	X	389	64.621	21.915	55.265	0.00	0.00
ATOM	5846	HB3	ARG	X	389	62.855	21.700	55.789	0.00	0.00
ATOM	5847	CG	ARG	X	389	63.639	20.121	54.606	0.00	0.00
ATOM	5848	HG2	ARG	X	389	62.688	19.727	54.250	0.00	0.00
ATOM	5849	HG3	ARG	X	389	64.348	19.934	53.799	0.00	0.00
ATOM	5850	CD	ARG	X	389	64.007	19.227	55.784	0.00	0.00
ATOM	5851	HD2	ARG	X	389	64.761	19.718	56.399	0.00	0.00
ATOM	5852	HD3	ARG	X	389	63.132	19.094	56.421	0.00	0.00
ATOM	5853	NE	ARG	X	389	64.514	17.936	55.233	0.00	0.00
ATOM	5854	HE	ARG	X	389	65.514	17.941	55.094	0.00	0.00
ATOM	5855	CZ	ARG	X	389	63.773	16.926	54.668	0.00	0.00
ATOM	5856	NH1	ARG	X	389	62.480	16.830	54.953	0.00	0.00
ATOM	5857	HH11	ARG	X	389	62.008	17.462	55.584	0.00	0.00
ATOM	5858	HH12	ARG	X	389	61.977	16.084	54.495	0.00	0.00
ATOM	5859	NH2	ARG	X	389	64.271	16.144	53.797	0.00	0.00
ATOM	5860	HH21	ARG	X	389	65.246	16.196	53.538	0.00	0.00
ATOM	5861	HH22	ARG	X	389	63.750	15.331	53.502	0.00	0.00
ATOM	5862	C	ARG	X	389	62.840	23.869	54.344	0.00	0.00
ATOM	5863	O	ARG	X	389	61.644	24.260	54.343	0.00	0.00
ATOM	5864	N	LEU	X	390	63.850	24.715	54.638	0.00	0.00
ATOM	5865	H	LEU	X	390	64.808	24.399	54.689	0.00	0.00
ATOM	5866	CA	LEU	X	390	63.505	26.113	55.107	0.00	0.00
ATOM	5867	HA	LEU	X	390	62.751	26.049	55.891	0.00	0.00

ATOM	5868	CB	LEU	X	390	64.749	26.694	55.763	0.00	0.00
ATOM	5869	HB2	LEU	X	390	65.540	26.481	55.044	0.00	0.00
ATOM	5870	HB3	LEU	X	390	64.664	27.779	55.808	0.00	0.00
ATOM	5871	CG	LEU	X	390	64.978	26.074	57.096	0.00	0.00
ATOM	5872	HG	LEU	X	390	65.170	25.006	56.994	0.00	0.00
ATOM	5873	CD1	LEU	X	390	66.206	26.746	57.698	0.00	0.00
ATOM	5874	HD11	LEU	X	390	67.049	26.635	57.016	0.00	0.00
ATOM	5875	HD12	LEU	X	390	66.523	26.372	58.672	0.00	0.00
ATOM	5876	HD13	LEU	X	390	66.040	27.823	57.703	0.00	0.00
ATOM	5877	CD2	LEU	X	390	63.751	26.117	58.059	0.00	0.00
ATOM	5878	HD21	LEU	X	390	63.248	25.168	58.246	0.00	0.00
ATOM	5879	HD22	LEU	X	390	63.966	26.528	59.046	0.00	0.00
ATOM	5880	HD23	LEU	X	390	62.995	26.767	57.618	0.00	0.00
ATOM	5881	C	LEU	X	390	62.968	27.074	54.019	0.00	0.00
ATOM	5882	O	LEU	X	390	62.132	27.921	54.352	0.00	0.00
ATOM	5883	N	ARG	X	391	63.330	26.860	52.768	0.00	0.00
ATOM	5884	H	ARG	X	391	64.064	26.182	52.621	0.00	0.00
ATOM	5885	CA	ARG	X	391	62.913	27.723	51.631	0.00	0.00
ATOM	5886	HA	ARG	X	391	62.832	28.746	51.998	0.00	0.00
ATOM	5887	CB	ARG	X	391	63.826	27.516	50.394	0.00	0.00
ATOM	5888	HB2	ARG	X	391	64.867	27.565	50.713	0.00	0.00
ATOM	5889	HB3	ARG	X	391	63.743	26.546	49.905	0.00	0.00
ATOM	5890	CG	ARG	X	391	63.496	28.579	49.342	0.00	0.00
ATOM	5891	HG2	ARG	X	391	62.430	28.560	49.116	0.00	0.00
ATOM	5892	HG3	ARG	X	391	63.649	29.580	49.746	0.00	0.00
ATOM	5893	CD	ARG	X	391	64.466	28.483	48.117	0.00	0.00
ATOM	5894	HD2	ARG	X	391	64.276	27.502	47.683	0.00	0.00
ATOM	5895	HD3	ARG	X	391	64.181	29.286	47.437	0.00	0.00
ATOM	5896	NE	ARG	X	391	65.898	28.652	48.492	0.00	0.00
ATOM	5897	HE	ARG	X	391	66.266	29.589	48.584	0.00	0.00
ATOM	5898	CZ	ARG	X	391	66.685	27.582	48.742	0.00	0.00
ATOM	5899	NH1	ARG	X	391	66.465	26.377	48.332	0.00	0.00
ATOM	5900	HH11	ARG	X	391	65.647	26.138	47.789	0.00	0.00
ATOM	5901	HH12	ARG	X	391	67.161	25.702	48.616	0.00	0.00
ATOM	5902	NH2	ARG	X	391	67.805	27.754	49.311	0.00	0.00
ATOM	5903	HH21	ARG	X	391	67.909	28.695	49.663	0.00	0.00
ATOM	5904	HH22	ARG	X	391	68.598	27.134	49.233	0.00	0.00
ATOM	5905	C	ARG	X	391	61.474	27.288	51.206	0.00	0.00
ATOM	5906	O	ARG	X	391	60.631	28.208	51.034	0.00	0.00
ATOM	5907	N	GLU	X	392	61.090	26.009	50.995	0.00	0.00
ATOM	5908	H	GLU	X	392	61.766	25.274	51.146	0.00	0.00
ATOM	5909	CA	GLU	X	392	59.714	25.567	50.865	0.00	0.00
ATOM	5910	HA	GLU	X	392	59.324	26.059	49.974	0.00	0.00
ATOM	5911	CB	GLU	X	392	59.660	24.069	50.417	0.00	0.00
ATOM	5912	HB2	GLU	X	392	60.391	23.887	49.629	0.00	0.00
ATOM	5913	HB3	GLU	X	392	59.898	23.363	51.212	0.00	0.00
ATOM	5914	CG	GLU	X	392	58.270	23.676	49.925	0.00	0.00
ATOM	5915	HG2	GLU	X	392	57.573	23.486	50.741	0.00	0.00
ATOM	5916	HG3	GLU	X	392	57.849	24.529	49.393	0.00	0.00
ATOM	5917	CD	GLU	X	392	58.343	22.396	49.050	0.00	0.00
ATOM	5918	OE1	GLU	X	392	58.229	22.457	47.818	0.00	0.00
ATOM	5919	OE2	GLU	X	392	58.337	21.329	49.669	0.00	0.00
ATOM	5920	C	GLU	X	392	58.839	26.009	52.035	0.00	0.00
ATOM	5921	O	GLU	X	392	57.701	26.462	51.799	0.00	0.00
ATOM	5922	N	ALA	X	393	59.376	26.123	53.276	0.00	0.00
ATOM	5923	H	ALA	X	393	60.285	25.695	53.384	0.00	0.00
ATOM	5924	CA	ALA	X	393	58.636	26.585	54.498	0.00	0.00
ATOM	5925	HA	ALA	X	393	57.669	26.107	54.345	0.00	0.00
ATOM	5926	CB	ALA	X	393	59.366	26.034	55.708	0.00	0.00
ATOM	5927	HB1	ALA	X	393	58.861	26.244	56.651	0.00	0.00
ATOM	5928	HB2	ALA	X	393	60.366	26.418	55.909	0.00	0.00
ATOM	5929	HB3	ALA	X	393	59.312	24.950	55.612	0.00	0.00
ATOM	5930	C	ALA	X	393	58.358	28.130	54.613	0.00	0.00
ATOM	5931	O	ALA	X	393	57.338	28.529	55.233	0.00	0.00
ATOM	5932	N	LEU	X	394	59.309	28.940	54.201	0.00	0.00
ATOM	5933	H	LEU	X	394	60.129	28.531	53.775	0.00	0.00
ATOM	5934	CA	LEU	X	394	59.166	30.322	54.014	0.00	0.00

ATOM	5935	HA	LEU	X	394	58.813	30.792	54.932	0.00	0.00
ATOM	5936	CB	LEU	X	394	60.566	30.823	53.737	0.00	0.00
ATOM	5937	HB2	LEU	X	394	61.193	30.477	54.559	0.00	0.00
ATOM	5938	HB3	LEU	X	394	60.849	30.239	52.862	0.00	0.00
ATOM	5939	CG	LEU	X	394	60.818	32.333	53.466	0.00	0.00
ATOM	5940	HG	LEU	X	394	60.143	32.492	52.625	0.00	0.00
ATOM	5941	CD1	LEU	X	394	60.467	33.070	54.741	0.00	0.00
ATOM	5942	HD11	LEU	X	394	61.140	32.940	55.589	0.00	0.00
ATOM	5943	HD12	LEU	X	394	59.476	32.794	55.101	0.00	0.00
ATOM	5944	HD13	LEU	X	394	60.270	34.135	54.618	0.00	0.00
ATOM	5945	CD2	LEU	X	394	62.272	32.718	53.039	0.00	0.00
ATOM	5946	HD21	LEU	X	394	62.948	32.404	53.834	0.00	0.00
ATOM	5947	HD22	LEU	X	394	62.567	32.200	52.126	0.00	0.00
ATOM	5948	HD23	LEU	X	394	62.264	33.787	52.826	0.00	0.00
ATOM	5949	C	LEU	X	394	58.212	30.657	52.877	0.00	0.00
ATOM	5950	O	LEU	X	394	57.463	31.597	53.065	0.00	0.00
ATOM	5951	N	SER	X	395	58.345	30.008	51.695	0.00	0.00
ATOM	5952	H	SER	X	395	58.944	29.195	51.700	0.00	0.00
ATOM	5953	CA	SER	X	395	57.344	30.048	50.654	0.00	0.00
ATOM	5954	HA	SER	X	395	57.305	31.033	50.190	0.00	0.00
ATOM	5955	CB	SER	X	395	57.772	29.029	49.575	0.00	0.00
ATOM	5956	HB2	SER	X	395	58.262	28.130	49.950	0.00	0.00
ATOM	5957	HB3	SER	X	395	56.930	28.750	48.941	0.00	0.00
ATOM	5958	OG	SER	X	395	58.711	29.720	48.825	0.00	0.00
ATOM	5959	HG	SER	X	395	59.275	29.127	48.323	0.00	0.00
ATOM	5960	C	SER	X	395	55.922	29.677	51.238	0.00	0.00
ATOM	5961	O	SER	X	395	54.907	30.305	50.908	0.00	0.00
ATOM	5962	N	ASP	X	396	55.864	28.696	52.215	0.00	0.00
ATOM	5963	H	ASP	X	396	56.710	28.188	52.431	0.00	0.00
ATOM	5964	CA	ASP	X	396	54.631	28.240	52.920	0.00	0.00
ATOM	5965	HA	ASP	X	396	53.961	27.982	52.099	0.00	0.00
ATOM	5966	CB	ASP	X	396	54.682	26.964	53.746	0.00	0.00
ATOM	5967	HB2	ASP	X	396	55.293	26.323	53.110	0.00	0.00
ATOM	5968	HB3	ASP	X	396	55.192	27.081	54.702	0.00	0.00
ATOM	5969	CG	ASP	X	396	53.341	26.260	53.977	0.00	0.00
ATOM	5970	OD1	ASP	X	396	52.977	26.112	55.182	0.00	0.00
ATOM	5971	OD2	ASP	X	396	52.672	25.898	53.052	0.00	0.00
ATOM	5972	C	ASP	X	396	53.988	29.313	53.755	0.00	0.00
ATOM	5973	O	ASP	X	396	52.962	29.924	53.441	0.00	0.00
ATOM	5974	N	VAL	X	397	54.775	29.784	54.760	0.00	0.00
ATOM	5975	H	VAL	X	397	55.564	29.233	55.066	0.00	0.00
ATOM	5976	CA	VAL	X	397	54.308	30.838	55.670	0.00	0.00
ATOM	5977	HA	VAL	X	397	53.380	30.451	56.090	0.00	0.00
ATOM	5978	CB	VAL	X	397	55.366	30.949	56.815	0.00	0.00
ATOM	5979	HB	VAL	X	397	55.819	29.981	57.029	0.00	0.00
ATOM	5980	CG1	VAL	X	397	56.451	31.928	56.450	0.00	0.00
ATOM	5981	HG11	VAL	X	397	57.304	31.997	57.126	0.00	0.00
ATOM	5982	HG12	VAL	X	397	56.880	31.667	55.483	0.00	0.00
ATOM	5983	HG13	VAL	X	397	56.018	32.920	56.324	0.00	0.00
ATOM	5984	CG2	VAL	X	397	54.698	31.507	58.060	0.00	0.00
ATOM	5985	HG21	VAL	X	397	53.898	30.832	58.364	0.00	0.00
ATOM	5986	HG22	VAL	X	397	54.401	32.541	57.881	0.00	0.00
ATOM	5987	HG23	VAL	X	397	55.448	31.481	58.850	0.00	0.00
ATOM	5988	C	VAL	X	397	53.916	32.162	55.028	0.00	0.00
ATOM	5989	O	VAL	X	397	52.980	32.828	55.417	0.00	0.00
ATOM	5990	N	VAL	X	398	54.638	32.541	53.925	0.00	0.00
ATOM	5991	H	VAL	X	398	55.367	31.912	53.619	0.00	0.00
ATOM	5992	CA	VAL	X	398	54.408	33.850	53.210	0.00	0.00
ATOM	5993	HA	VAL	X	398	54.283	34.562	54.026	0.00	0.00
ATOM	5994	CB	VAL	X	398	55.596	34.345	52.381	0.00	0.00
ATOM	5995	HB	VAL	X	398	56.021	33.588	51.721	0.00	0.00
ATOM	5996	CG1	VAL	X	398	55.239	35.524	51.487	0.00	0.00
ATOM	5997	HG11	VAL	X	398	54.484	35.324	50.727	0.00	0.00
ATOM	5998	HG12	VAL	X	398	54.766	36.258	52.139	0.00	0.00
ATOM	5999	HG13	VAL	X	398	56.149	35.892	51.013	0.00	0.00
ATOM	6000	CG2	VAL	X	398	56.639	34.873	53.350	0.00	0.00
ATOM	6001	HG21	VAL	X	398	57.196	34.138	53.931	0.00	0.00

ATOM	6002	HG22	VAL	X	398	56.211	35.636	54.000	0.00	0.00
ATOM	6003	HG23	VAL	X	398	57.343	35.487	52.788	0.00	0.00
ATOM	6004	C	VAL	X	398	53.150	33.744	52.305	0.00	0.00
ATOM	6005	O	VAL	X	398	52.545	34.752	51.961	0.00	0.00
ATOM	6006	N	GLY	X	399	52.599	32.542	52.153	0.00	0.00
ATOM	6007	H	GLY	X	399	53.114	31.722	52.438	0.00	0.00
ATOM	6008	CA	GLY	X	399	51.247	32.353	51.582	0.00	0.00
ATOM	6009	HA2	GLY	X	399	51.028	33.256	51.012	0.00	0.00
ATOM	6010	HA3	GLY	X	399	51.246	31.560	50.835	0.00	0.00
ATOM	6011	C	GLY	X	399	50.149	32.143	52.634	0.00	0.00
ATOM	6012	O	GLY	X	399	48.997	32.533	52.407	0.00	0.00
ATOM	6013	N	ASP	X	400	50.421	31.420	53.691	0.00	0.00
ATOM	6014	H	ASP	X	400	51.422	31.294	53.741	0.00	0.00
ATOM	6015	CA	ASP	X	400	49.468	30.777	54.626	0.00	0.00
ATOM	6016	HA	ASP	X	400	48.814	30.079	54.103	0.00	0.00
ATOM	6017	CB	ASP	X	400	50.266	29.929	55.630	0.00	0.00
ATOM	6018	HB2	ASP	X	400	50.980	29.315	55.081	0.00	0.00
ATOM	6019	HB3	ASP	X	400	50.746	30.656	56.287	0.00	0.00
ATOM	6020	CG	ASP	X	400	49.499	29.012	56.543	0.00	0.00
ATOM	6021	OD1	ASP	X	400	49.040	29.422	57.670	0.00	0.00
ATOM	6022	OD2	ASP	X	400	49.209	27.900	56.129	0.00	0.00
ATOM	6023	C	ASP	X	400	48.595	31.863	55.266	0.00	0.00
ATOM	6024	O	ASP	X	400	47.405	31.969	54.916	0.00	0.00
ATOM	6025	N	HIE	X	401	49.128	32.740	56.124	0.00	0.00
ATOM	6026	H	HIE	X	401	50.136	32.703	56.187	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.300	33.720	56.821	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.437	33.335	57.365	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.101	34.332	57.973	0.00	0.00
ATOM	6030	HB2	HIE	X	401	48.360	34.784	58.632	0.00	0.00
ATOM	6031	HB3	HIE	X	401	49.583	33.509	58.502	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.169	35.308	57.552	0.00	0.00
ATOM	6033	ND1	HIE	X	401	50.102	36.672	57.550	0.00	0.00
ATOM	6034	CE1	HIE	X	401	51.334	37.053	57.171	0.00	0.00
ATOM	6035	HE1	HIE	X	401	51.514	38.085	56.909	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.153	36.053	56.998	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.090	36.115	56.626	0.00	0.00
ATOM	6038	CD2	HIE	X	401	51.429	34.909	57.237	0.00	0.00
ATOM	6039	HD2	HIE	X	401	51.795	33.894	57.265	0.00	0.00
ATOM	6040	C	HIE	X	401	47.665	34.758	55.893	0.00	0.00
ATOM	6041	O	HIE	X	401	46.565	35.278	56.194	0.00	0.00
ATOM	6042	N	ASN	X	402	48.400	35.149	54.823	0.00	0.00
ATOM	6043	H	ASN	X	402	49.236	34.615	54.633	0.00	0.00
ATOM	6044	CA	ASN	X	402	47.966	36.170	53.880	0.00	0.00
ATOM	6045	HA	ASN	X	402	47.593	37.016	54.458	0.00	0.00
ATOM	6046	CB	ASN	X	402	49.101	36.717	52.966	0.00	0.00
ATOM	6047	HB2	ASN	X	402	49.505	35.841	52.460	0.00	0.00
ATOM	6048	HB3	ASN	X	402	48.669	37.364	52.202	0.00	0.00
ATOM	6049	CG	ASN	X	402	50.058	37.585	53.721	0.00	0.00
ATOM	6050	OD1	ASN	X	402	49.633	38.409	54.510	0.00	0.00
ATOM	6051	ND2	ASN	X	402	51.338	37.429	53.631	0.00	0.00
ATOM	6052	HD21	ASN	X	402	51.870	38.065	54.207	0.00	0.00
ATOM	6053	HD22	ASN	X	402	51.776	36.749	53.026	0.00	0.00
ATOM	6054	C	ASN	X	402	46.752	35.697	52.991	0.00	0.00
ATOM	6055	O	ASN	X	402	45.754	36.409	52.838	0.00	0.00
ATOM	6056	N	VAL	X	403	46.693	34.448	52.508	0.00	0.00
ATOM	6057	H	VAL	X	403	47.522	33.874	52.569	0.00	0.00
ATOM	6058	CA	VAL	X	403	45.615	33.890	51.643	0.00	0.00
ATOM	6059	HA	VAL	X	403	44.690	34.426	51.856	0.00	0.00
ATOM	6060	CB	VAL	X	403	45.876	34.238	50.210	0.00	0.00
ATOM	6061	HB	VAL	X	403	45.847	35.316	50.049	0.00	0.00
ATOM	6062	CG1	VAL	X	403	47.298	33.699	49.744	0.00	0.00
ATOM	6063	HG11	VAL	X	403	47.523	34.148	48.776	0.00	0.00
ATOM	6064	HG12	VAL	X	403	48.120	34.077	50.351	0.00	0.00
ATOM	6065	HG13	VAL	X	403	47.402	32.615	49.702	0.00	0.00
ATOM	6066	CG2	VAL	X	403	44.946	33.627	49.183	0.00	0.00
ATOM	6067	HG21	VAL	X	403	45.263	33.936	48.187	0.00	0.00
ATOM	6068	HG22	VAL	X	403	43.932	33.961	49.402	0.00	0.00

ATOM	6069	HG23	VAL	X	403	44.911	32.538	49.159	0.00	0.00
ATOM	6070	C	VAL	X	403	45.196	32.382	51.932	0.00	0.00
ATOM	6071	O	VAL	X	403	44.011	32.124	52.166	0.00	0.00
ATOM	6072	N	VAL	X	404	46.153	31.423	51.953	0.00	0.00
ATOM	6073	H	VAL	X	404	47.117	31.725	51.948	0.00	0.00
ATOM	6074	CA	VAL	X	404	45.898	29.950	51.956	0.00	0.00
ATOM	6075	HA	VAL	X	404	45.236	29.922	51.091	0.00	0.00
ATOM	6076	CB	VAL	X	404	47.111	28.955	51.736	0.00	0.00
ATOM	6077	HB	VAL	X	404	47.835	28.933	52.551	0.00	0.00
ATOM	6078	CG1	VAL	X	404	46.612	27.514	51.501	0.00	0.00
ATOM	6079	HG11	VAL	X	404	47.462	26.881	51.247	0.00	0.00
ATOM	6080	HG12	VAL	X	404	46.101	27.162	52.398	0.00	0.00
ATOM	6081	HG13	VAL	X	404	45.912	27.542	50.665	0.00	0.00
ATOM	6082	CG2	VAL	X	404	47.834	29.390	50.469	0.00	0.00
ATOM	6083	HG21	VAL	X	404	47.058	29.530	49.717	0.00	0.00
ATOM	6084	HG22	VAL	X	404	48.637	28.689	50.239	0.00	0.00
ATOM	6085	HG23	VAL	X	404	48.342	30.351	50.548	0.00	0.00
ATOM	6086	C	VAL	X	404	45.013	29.499	53.165	0.00	0.00
ATOM	6087	O	VAL	X	404	44.097	28.675	52.978	0.00	0.00
ATOM	6088	N	CYX	X	405	45.200	30.079	54.367	0.00	0.00
ATOM	6089	H	CYX	X	405	45.933	30.774	54.402	0.00	0.00
ATOM	6090	CA	CYX	X	405	44.229	30.019	55.455	0.00	0.00
ATOM	6091	HA	CYX	X	405	43.985	28.958	55.518	0.00	0.00
ATOM	6092	CB	CYX	X	405	45.066	30.248	56.727	0.00	0.00
ATOM	6093	HB2	CYX	X	405	45.977	30.822	56.560	0.00	0.00
ATOM	6094	HB3	CYX	X	405	44.491	30.784	57.482	0.00	0.00
ATOM	6095	SG	CYX	X	405	45.707	28.689	57.385	0.00	0.00
ATOM	6096	C	CYX	X	405	42.950	30.945	55.187	0.00	0.00
ATOM	6097	O	CYX	X	405	41.941	30.301	54.953	0.00	0.00
ATOM	6098	N	PRO	X	406	42.976	32.354	55.198	0.00	0.00
ATOM	6099	CD	PRO	X	406	44.160	33.165	55.463	0.00	0.00
ATOM	6100	HD2	PRO	X	406	44.844	32.960	54.640	0.00	0.00
ATOM	6101	HD3	PRO	X	406	44.704	32.886	56.365	0.00	0.00
ATOM	6102	CG	PRO	X	406	43.683	34.613	55.314	0.00	0.00
ATOM	6103	HG2	PRO	X	406	44.470	35.225	54.873	0.00	0.00
ATOM	6104	HG3	PRO	X	406	43.344	35.153	56.199	0.00	0.00
ATOM	6105	CB	PRO	X	406	42.430	34.531	54.463	0.00	0.00
ATOM	6106	HB2	PRO	X	406	42.594	34.768	53.412	0.00	0.00
ATOM	6107	HB3	PRO	X	406	41.893	35.401	54.842	0.00	0.00
ATOM	6108	CA	PRO	X	406	41.902	33.181	54.815	0.00	0.00
ATOM	6109	HA	PRO	X	406	41.326	33.220	55.740	0.00	0.00
ATOM	6110	C	PRO	X	406	40.923	32.597	53.846	0.00	0.00
ATOM	6111	O	PRO	X	406	39.706	32.458	54.159	0.00	0.00
ATOM	6112	N	VAL	X	407	41.270	32.197	52.587	0.00	0.00
ATOM	6113	H	VAL	X	407	42.275	32.214	52.490	0.00	0.00
ATOM	6114	CA	VAL	X	407	40.416	31.686	51.489	0.00	0.00
ATOM	6115	HA	VAL	X	407	39.526	32.315	51.463	0.00	0.00
ATOM	6116	CB	VAL	X	407	41.157	31.626	50.141	0.00	0.00
ATOM	6117	HB	VAL	X	407	41.911	32.401	50.005	0.00	0.00
ATOM	6118	CG1	VAL	X	407	41.981	30.290	49.842	0.00	0.00
ATOM	6119	HG11	VAL	X	407	42.721	30.076	50.614	0.00	0.00
ATOM	6120	HG12	VAL	X	407	41.326	29.419	49.835	0.00	0.00
ATOM	6121	HG13	VAL	X	407	42.567	30.508	48.950	0.00	0.00
ATOM	6122	CG2	VAL	X	407	40.141	31.930	48.943	0.00	0.00
ATOM	6123	HG21	VAL	X	407	39.181	31.474	49.186	0.00	0.00
ATOM	6124	HG22	VAL	X	407	40.397	31.602	47.936	0.00	0.00
ATOM	6125	HG23	VAL	X	407	40.016	33.010	48.866	0.00	0.00
ATOM	6126	C	VAL	X	407	39.768	30.300	51.866	0.00	0.00
ATOM	6127	O	VAL	X	407	38.741	30.005	51.271	0.00	0.00
ATOM	6128	N	ALA	X	408	40.334	29.514	52.783	0.00	0.00
ATOM	6129	H	ALA	X	408	41.178	29.864	53.212	0.00	0.00
ATOM	6130	CA	ALA	X	408	39.745	28.288	53.341	0.00	0.00
ATOM	6131	HA	ALA	X	408	39.276	27.706	52.548	0.00	0.00
ATOM	6132	CB	ALA	X	408	40.919	27.479	53.993	0.00	0.00
ATOM	6133	HB1	ALA	X	408	40.592	26.451	54.148	0.00	0.00
ATOM	6134	HB2	ALA	X	408	41.203	27.834	54.984	0.00	0.00
ATOM	6135	HB3	ALA	X	408	41.836	27.455	53.403	0.00	0.00

ATOM	6136	C	ALA	X	408	38.676	28.518	54.419	0.00	0.00
ATOM	6137	O	ALA	X	408	37.636	27.894	54.535	0.00	0.00
ATOM	6138	N	GLN	X	409	39.024	29.595	55.172	0.00	0.00
ATOM	6139	H	GLN	X	409	39.861	30.082	54.886	0.00	0.00
ATOM	6140	CA	GLN	X	409	38.102	30.248	56.183	0.00	0.00
ATOM	6141	HA	GLN	X	409	37.517	29.474	56.679	0.00	0.00
ATOM	6142	CB	GLN	X	409	38.865	31.087	57.188	0.00	0.00
ATOM	6143	HB2	GLN	X	409	39.396	31.830	56.593	0.00	0.00
ATOM	6144	HB3	GLN	X	409	38.109	31.588	57.793	0.00	0.00
ATOM	6145	CG	GLN	X	409	39.834	30.163	57.983	0.00	0.00
ATOM	6146	HG2	GLN	X	409	39.284	29.434	58.579	0.00	0.00
ATOM	6147	HG3	GLN	X	409	40.517	29.672	57.290	0.00	0.00
ATOM	6148	CD	GLN	X	409	40.711	31.003	58.956	0.00	0.00
ATOM	6149	OE1	GLN	X	409	41.450	31.861	58.525	0.00	0.00
ATOM	6150	NE2	GLN	X	409	40.635	30.802	60.225	0.00	0.00
ATOM	6151	HE21	GLN	X	409	41.375	31.170	60.806	0.00	0.00
ATOM	6152	HE22	GLN	X	409	39.878	30.266	60.626	0.00	0.00
ATOM	6153	C	GLN	X	409	36.979	31.021	55.580	0.00	0.00
ATOM	6154	O	GLN	X	409	35.845	31.049	56.060	0.00	0.00
ATOM	6155	N	LEU	X	410	37.242	31.537	54.301	0.00	0.00
ATOM	6156	H	LEU	X	410	38.196	31.607	53.979	0.00	0.00
ATOM	6157	CA	LEU	X	410	36.245	32.211	53.518	0.00	0.00
ATOM	6158	HA	LEU	X	410	35.576	32.825	54.122	0.00	0.00
ATOM	6159	CB	LEU	X	410	36.875	33.087	52.435	0.00	0.00
ATOM	6160	HB2	LEU	X	410	37.446	33.805	53.024	0.00	0.00
ATOM	6161	HB3	LEU	X	410	37.568	32.532	51.803	0.00	0.00
ATOM	6162	CG	LEU	X	410	35.950	33.764	51.403	0.00	0.00
ATOM	6163	HG	LEU	X	410	35.566	33.072	50.653	0.00	0.00
ATOM	6164	CD1	LEU	X	410	34.756	34.474	51.975	0.00	0.00
ATOM	6165	HD11	LEU	X	410	34.130	34.820	51.153	0.00	0.00
ATOM	6166	HD12	LEU	X	410	35.111	35.226	52.679	0.00	0.00
ATOM	6167	HD13	LEU	X	410	34.282	33.759	52.647	0.00	0.00
ATOM	6168	CD2	LEU	X	410	36.807	34.835	50.689	0.00	0.00
ATOM	6169	HD21	LEU	X	410	37.342	35.455	51.408	0.00	0.00
ATOM	6170	HD22	LEU	X	410	37.447	34.360	49.945	0.00	0.00
ATOM	6171	HD23	LEU	X	410	36.105	35.554	50.266	0.00	0.00
ATOM	6172	C	LEU	X	410	35.361	31.134	52.959	0.00	0.00
ATOM	6173	O	LEU	X	410	34.151	31.232	53.000	0.00	0.00
ATOM	6174	N	ALA	X	411	35.941	30.173	52.311	0.00	0.00
ATOM	6175	H	ALA	X	411	36.940	30.264	52.191	0.00	0.00
ATOM	6176	CA	ALA	X	411	35.146	28.992	51.768	0.00	0.00
ATOM	6177	HA	ALA	X	411	34.419	29.377	51.053	0.00	0.00
ATOM	6178	CB	ALA	X	411	36.107	28.023	51.022	0.00	0.00
ATOM	6179	HB1	ALA	X	411	36.733	27.424	51.683	0.00	0.00
ATOM	6180	HB2	ALA	X	411	36.684	28.649	50.342	0.00	0.00
ATOM	6181	HB3	ALA	X	411	35.514	27.356	50.396	0.00	0.00
ATOM	6182	C	ALA	X	411	34.260	28.317	52.825	0.00	0.00
ATOM	6183	O	ALA	X	411	33.048	28.139	52.639	0.00	0.00
ATOM	6184	N	GLY	X	412	34.877	28.072	54.027	0.00	0.00
ATOM	6185	H	GLY	X	412	35.859	28.276	54.145	0.00	0.00
ATOM	6186	CA	GLY	X	412	34.258	27.593	55.169	0.00	0.00
ATOM	6187	HA2	GLY	X	412	33.743	26.671	54.900	0.00	0.00
ATOM	6188	HA3	GLY	X	412	34.928	27.433	56.014	0.00	0.00
ATOM	6189	C	GLY	X	412	33.030	28.410	55.659	0.00	0.00
ATOM	6190	O	GLY	X	412	31.926	27.933	55.839	0.00	0.00
ATOM	6191	N	ARG	X	413	33.235	29.689	55.966	0.00	0.00
ATOM	6192	H	ARG	X	413	34.188	30.002	55.848	0.00	0.00
ATOM	6193	CA	ARG	X	413	32.144	30.652	56.205	0.00	0.00
ATOM	6194	HA	ARG	X	413	31.756	30.300	57.161	0.00	0.00
ATOM	6195	CB	ARG	X	413	32.741	32.008	56.460	0.00	0.00
ATOM	6196	HB2	ARG	X	413	33.367	32.027	57.352	0.00	0.00
ATOM	6197	HB3	ARG	X	413	33.408	32.128	55.607	0.00	0.00
ATOM	6198	CG	ARG	X	413	31.706	33.175	56.595	0.00	0.00
ATOM	6199	HG2	ARG	X	413	32.347	34.024	56.831	0.00	0.00
ATOM	6200	HG3	ARG	X	413	31.067	33.367	55.733	0.00	0.00
ATOM	6201	CD	ARG	X	413	30.786	32.947	57.800	0.00	0.00
ATOM	6202	HD2	ARG	X	413	30.288	31.981	57.723	0.00	0.00

ATOM	6203	HD3	ARG	X	413	31.299	32.853	58.758	0.00	0.00
ATOM	6204	NE	ARG	X	413	29.839	34.031	57.944	0.00	0.00
ATOM	6205	HE	ARG	X	413	30.009	34.845	57.371	0.00	0.00
ATOM	6206	CZ	ARG	X	413	28.794	33.997	58.789	0.00	0.00
ATOM	6207	NH1	ARG	X	413	28.849	33.152	59.743	0.00	0.00
ATOM	6208	HH11	ARG	X	413	29.602	32.481	59.803	0.00	0.00
ATOM	6209	HH12	ARG	X	413	28.105	33.209	60.424	0.00	0.00
ATOM	6210	NH2	ARG	X	413	27.765	34.798	58.621	0.00	0.00
ATOM	6211	HH21	ARG	X	413	27.818	35.559	57.959	0.00	0.00
ATOM	6212	HH22	ARG	X	413	27.040	34.706	59.318	0.00	0.00
ATOM	6213	C	ARG	X	413	31.062	30.656	55.134	0.00	0.00
ATOM	6214	O	ARG	X	413	29.851	30.546	55.500	0.00	0.00
ATOM	6215	N	LEU	X	414	31.360	30.614	53.837	0.00	0.00
ATOM	6216	H	LEU	X	414	32.340	30.657	53.596	0.00	0.00
ATOM	6217	CA	LEU	X	414	30.333	30.807	52.787	0.00	0.00
ATOM	6218	HA	LEU	X	414	29.732	31.680	53.041	0.00	0.00
ATOM	6219	CB	LEU	X	414	31.042	31.096	51.429	0.00	0.00
ATOM	6220	HB2	LEU	X	414	31.815	30.338	51.302	0.00	0.00
ATOM	6221	HB3	LEU	X	414	30.404	30.955	50.557	0.00	0.00
ATOM	6222	CG	LEU	X	414	31.780	32.419	51.157	0.00	0.00
ATOM	6223	HG	LEU	X	414	32.424	32.642	52.008	0.00	0.00
ATOM	6224	CD1	LEU	X	414	32.582	32.317	49.821	0.00	0.00
ATOM	6225	HD11	LEU	X	414	33.301	31.501	49.896	0.00	0.00
ATOM	6226	HD12	LEU	X	414	33.154	33.210	49.568	0.00	0.00
ATOM	6227	HD13	LEU	X	414	31.850	32.180	49.025	0.00	0.00
ATOM	6228	CD2	LEU	X	414	30.780	33.510	50.802	0.00	0.00
ATOM	6229	HD21	LEU	X	414	29.966	33.162	50.165	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.380	33.819	51.768	0.00	0.00
ATOM	6231	HD23	LEU	X	414	31.300	34.331	50.309	0.00	0.00
ATOM	6232	C	LEU	X	414	29.488	29.508	52.702	0.00	0.00
ATOM	6233	O	LEU	X	414	28.275	29.651	52.743	0.00	0.00
ATOM	6234	N	ALA	X	415	30.118	28.326	52.772	0.00	0.00
ATOM	6235	H	ALA	X	415	31.125	28.312	52.694	0.00	0.00
ATOM	6236	CA	ALA	X	415	29.412	27.051	52.620	0.00	0.00
ATOM	6237	HA	ALA	X	415	28.614	27.146	51.883	0.00	0.00
ATOM	6238	CB	ALA	X	415	30.374	25.921	52.329	0.00	0.00
ATOM	6239	HB1	ALA	X	415	30.858	26.117	51.372	0.00	0.00
ATOM	6240	HB2	ALA	X	415	29.927	24.927	52.316	0.00	0.00
ATOM	6241	HB3	ALA	X	415	31.151	25.975	53.091	0.00	0.00
ATOM	6242	C	ALA	X	415	28.546	26.857	53.900	0.00	0.00
ATOM	6243	O	ALA	X	415	27.494	26.201	53.814	0.00	0.00
ATOM	6244	N	ALA	X	416	28.995	27.349	55.094	0.00	0.00
ATOM	6245	H	ALA	X	416	29.879	27.837	55.073	0.00	0.00
ATOM	6246	CA	ALA	X	416	28.305	27.218	56.376	0.00	0.00
ATOM	6247	HA	ALA	X	416	27.983	26.185	56.507	0.00	0.00
ATOM	6248	CB	ALA	X	416	29.177	27.748	57.571	0.00	0.00
ATOM	6249	HB1	ALA	X	416	30.026	27.093	57.767	0.00	0.00
ATOM	6250	HB2	ALA	X	416	28.653	27.613	58.518	0.00	0.00
ATOM	6251	HB3	ALA	X	416	29.515	28.777	57.452	0.00	0.00
ATOM	6252	C	ALA	X	416	27.016	28.106	56.362	0.00	0.00
ATOM	6253	O	ALA	X	416	26.000	27.643	56.883	0.00	0.00
ATOM	6254	N	GLN	X	417	27.057	29.222	55.728	0.00	0.00
ATOM	6255	H	GLN	X	417	27.903	29.432	55.218	0.00	0.00
ATOM	6256	CA	GLN	X	417	25.959	30.110	55.309	0.00	0.00
ATOM	6257	HA	GLN	X	417	25.376	30.193	56.226	0.00	0.00
ATOM	6258	CB	GLN	X	417	26.455	31.581	55.086	0.00	0.00
ATOM	6259	HB2	GLN	X	417	27.248	31.589	54.338	0.00	0.00
ATOM	6260	HB3	GLN	X	417	25.630	32.126	54.626	0.00	0.00
ATOM	6261	CG	GLN	X	417	26.896	32.261	56.361	0.00	0.00
ATOM	6262	HG2	GLN	X	417	27.772	31.847	56.860	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.080	33.279	56.019	0.00	0.00
ATOM	6264	CD	GLN	X	417	25.743	32.144	57.438	0.00	0.00
ATOM	6265	OE1	GLN	X	417	25.869	31.632	58.491	0.00	0.00
ATOM	6266	NE2	GLN	X	417	24.551	32.643	57.153	0.00	0.00
ATOM	6267	HE21	GLN	X	417	23.829	32.611	57.859	0.00	0.00
ATOM	6268	HE22	GLN	X	417	24.277	33.099	56.294	0.00	0.00
ATOM	6269	C	GLN	X	417	25.085	29.576	54.214	0.00	0.00

ATOM	6270	O	GLN	X	417	23.900	29.872	54.221	0.00	0.00
ATOM	6271	N	GLY	X	418	25.519	28.648	53.353	0.00	0.00
ATOM	6272	H	GLY	X	418	26.496	28.407	53.435	0.00	0.00
ATOM	6273	CA	GLY	X	418	24.743	28.116	52.228	0.00	0.00
ATOM	6274	HA2	GLY	X	418	25.028	27.066	52.165	0.00	0.00
ATOM	6275	HA3	GLY	X	418	23.688	28.138	52.503	0.00	0.00
ATOM	6276	C	GLY	X	418	25.004	28.632	50.818	0.00	0.00
ATOM	6277	O	GLY	X	418	24.140	28.487	49.947	0.00	0.00
ATOM	6278	N	ALA	X	419	26.027	29.454	50.633	0.00	0.00
ATOM	6279	H	ALA	X	419	26.691	29.559	51.386	0.00	0.00
ATOM	6280	CA	ALA	X	419	26.514	29.827	49.311	0.00	0.00
ATOM	6281	HA	ALA	X	419	25.740	30.322	48.724	0.00	0.00
ATOM	6282	CB	ALA	X	419	27.652	30.795	49.487	0.00	0.00
ATOM	6283	HB1	ALA	X	419	28.536	30.350	49.944	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.325	31.609	50.133	0.00	0.00
ATOM	6285	HB3	ALA	X	419	27.958	31.234	48.538	0.00	0.00
ATOM	6286	C	ALA	X	419	27.026	28.600	48.552	0.00	0.00
ATOM	6287	O	ALA	X	419	27.513	27.680	49.182	0.00	0.00
ATOM	6288	N	ARG	X	420	26.839	28.557	47.254	0.00	0.00
ATOM	6289	H	ARG	X	420	26.333	29.329	46.843	0.00	0.00
ATOM	6290	CA	ARG	X	420	27.368	27.538	46.364	0.00	0.00
ATOM	6291	HA	ARG	X	420	27.307	26.546	46.812	0.00	0.00
ATOM	6292	CB	ARG	X	420	26.480	27.621	45.102	0.00	0.00
ATOM	6293	HB2	ARG	X	420	25.460	27.356	45.383	0.00	0.00
ATOM	6294	HB3	ARG	X	420	26.430	28.610	44.647	0.00	0.00
ATOM	6295	CG	ARG	X	420	26.844	26.465	44.105	0.00	0.00
ATOM	6296	HG2	ARG	X	420	26.150	26.550	43.269	0.00	0.00
ATOM	6297	HG3	ARG	X	420	27.905	26.572	43.880	0.00	0.00
ATOM	6298	CD	ARG	X	420	26.632	25.064	44.711	0.00	0.00
ATOM	6299	HD2	ARG	X	420	27.606	24.699	45.036	0.00	0.00
ATOM	6300	HD3	ARG	X	420	25.933	24.983	45.545	0.00	0.00
ATOM	6301	NE	ARG	X	420	26.130	24.114	43.652	0.00	0.00
ATOM	6302	HE	ARG	X	420	26.075	24.501	42.721	0.00	0.00
ATOM	6303	CZ	ARG	X	420	25.811	22.840	43.881	0.00	0.00
ATOM	6304	NH1	ARG	X	420	25.748	22.263	45.057	0.00	0.00
ATOM	6305	HH11	ARG	X	420	25.591	22.827	45.880	0.00	0.00
ATOM	6306	HH12	ARG	X	420	25.520	21.281	45.121	0.00	0.00
ATOM	6307	NH2	ARG	X	420	25.474	22.165	42.771	0.00	0.00
ATOM	6308	HH21	ARG	X	420	25.367	22.624	41.878	0.00	0.00
ATOM	6309	HH22	ARG	X	420	25.391	21.173	42.945	0.00	0.00
ATOM	6310	C	ARG	X	420	28.813	27.757	45.972	0.00	0.00
ATOM	6311	O	ARG	X	420	29.035	28.624	45.146	0.00	0.00
ATOM	6312	N	VAL	X	421	29.710	27.111	46.724	0.00	0.00
ATOM	6313	H	VAL	X	421	29.298	26.463	47.380	0.00	0.00
ATOM	6314	CA	VAL	X	421	31.112	27.335	46.740	0.00	0.00
ATOM	6315	HA	VAL	X	421	31.402	28.296	46.316	0.00	0.00
ATOM	6316	CB	VAL	X	421	31.589	27.373	48.131	0.00	0.00
ATOM	6317	HB	VAL	X	421	31.471	26.393	48.595	0.00	0.00
ATOM	6318	CG1	VAL	X	421	33.136	27.763	48.239	0.00	0.00
ATOM	6319	HG11	VAL	X	421	33.429	27.942	49.273	0.00	0.00
ATOM	6320	HG12	VAL	X	421	33.670	26.915	47.811	0.00	0.00
ATOM	6321	HG13	VAL	X	421	33.267	28.662	47.636	0.00	0.00
ATOM	6322	CG2	VAL	X	421	30.820	28.347	48.973	0.00	0.00
ATOM	6323	HG21	VAL	X	421	29.741	28.208	49.047	0.00	0.00
ATOM	6324	HG22	VAL	X	421	30.975	29.317	48.501	0.00	0.00
ATOM	6325	HG23	VAL	X	421	31.306	28.250	49.944	0.00	0.00
ATOM	6326	C	VAL	X	421	31.836	26.166	45.967	0.00	0.00
ATOM	6327	O	VAL	X	421	31.549	25.037	46.215	0.00	0.00
ATOM	6328	N	TYR	X	422	32.831	26.519	45.096	0.00	0.00
ATOM	6329	H	TYR	X	422	33.003	27.509	44.988	0.00	0.00
ATOM	6330	CA	TYR	X	422	33.722	25.560	44.335	0.00	0.00
ATOM	6331	HA	TYR	X	422	33.555	24.545	44.697	0.00	0.00
ATOM	6332	CB	TYR	X	422	33.348	25.576	42.808	0.00	0.00
ATOM	6333	HB2	TYR	X	422	33.460	26.601	42.456	0.00	0.00
ATOM	6334	HB3	TYR	X	422	34.173	25.061	42.316	0.00	0.00
ATOM	6335	CG	TYR	X	422	32.061	24.930	42.416	0.00	0.00
ATOM	6336	CD1	TYR	X	422	32.006	23.560	42.257	0.00	0.00

ATOM	6337	HD1	TYR	X	422	32.872	22.919	42.331	0.00	0.00
ATOM	6338	CE1	TYR	X	422	30.814	22.869	42.040	0.00	0.00
ATOM	6339	HE1	TYR	X	422	30.894	21.798	41.921	0.00	0.00
ATOM	6340	CZ	TYR	X	422	29.646	23.639	41.897	0.00	0.00
ATOM	6341	OH	TYR	X	422	28.432	23.032	41.741	0.00	0.00
ATOM	6342	HH	TYR	X	422	28.510	22.147	41.376	0.00	0.00
ATOM	6343	CE2	TYR	X	422	29.675	25.037	42.104	0.00	0.00
ATOM	6344	HE2	TYR	X	422	28.717	25.533	42.161	0.00	0.00
ATOM	6345	CD2	TYR	X	422	30.882	25.709	42.313	0.00	0.00
ATOM	6346	HD2	TYR	X	422	30.950	26.787	42.320	0.00	0.00
ATOM	6347	C	TYR	X	422	35.199	25.957	44.550	0.00	0.00
ATOM	6348	O	TYR	X	422	35.597	27.005	44.068	0.00	0.00
ATOM	6349	N	ALA	X	423	35.908	25.022	45.173	0.00	0.00
ATOM	6350	H	ALA	X	423	35.414	24.181	45.434	0.00	0.00
ATOM	6351	CA	ALA	X	423	37.320	25.197	45.523	0.00	0.00
ATOM	6352	HA	ALA	X	423	37.589	26.243	45.374	0.00	0.00
ATOM	6353	CB	ALA	X	423	37.487	25.002	47.086	0.00	0.00
ATOM	6354	HB1	ALA	X	423	37.246	24.003	47.450	0.00	0.00
ATOM	6355	HB2	ALA	X	423	36.818	25.679	47.617	0.00	0.00
ATOM	6356	HB3	ALA	X	423	38.494	25.299	47.377	0.00	0.00
ATOM	6357	C	ALA	X	423	38.454	24.392	44.835	0.00	0.00
ATOM	6358	O	ALA	X	423	38.294	23.215	44.512	0.00	0.00
ATOM	6359	N	TYR	X	424	39.545	25.059	44.529	0.00	0.00
ATOM	6360	H	TYR	X	424	39.532	26.067	44.592	0.00	0.00
ATOM	6361	CA	TYR	X	424	40.671	24.435	43.807	0.00	0.00
ATOM	6362	HA	TYR	X	424	40.538	23.353	43.811	0.00	0.00
ATOM	6363	CB	TYR	X	424	40.555	24.737	42.233	0.00	0.00
ATOM	6364	HB2	TYR	X	424	41.059	23.941	41.684	0.00	0.00
ATOM	6365	HB3	TYR	X	424	39.541	24.538	41.885	0.00	0.00
ATOM	6366	CG	TYR	X	424	41.074	26.098	41.733	0.00	0.00
ATOM	6367	CD1	TYR	X	424	42.435	26.305	41.445	0.00	0.00
ATOM	6368	HD1	TYR	X	424	43.132	25.480	41.423	0.00	0.00
ATOM	6369	CE1	TYR	X	424	43.026	27.612	41.361	0.00	0.00
ATOM	6370	HE1	TYR	X	424	44.074	27.862	41.289	0.00	0.00
ATOM	6371	CZ	TYR	X	424	42.150	28.685	41.360	0.00	0.00
ATOM	6372	OH	TYR	X	424	42.571	29.929	41.346	0.00	0.00
ATOM	6373	HH	TYR	X	424	43.530	29.903	41.327	0.00	0.00
ATOM	6374	CE2	TYR	X	424	40.688	28.515	41.475	0.00	0.00
ATOM	6375	HE2	TYR	X	424	39.946	29.297	41.406	0.00	0.00
ATOM	6376	CD2	TYR	X	424	40.217	27.238	41.713	0.00	0.00
ATOM	6377	HD2	TYR	X	424	39.205	27.196	42.088	0.00	0.00
ATOM	6378	C	TYR	X	424	42.050	24.852	44.292	0.00	0.00
ATOM	6379	O	TYR	X	424	42.287	25.788	45.001	0.00	0.00
ATOM	6380	N	VAL	X	425	43.031	24.023	43.945	0.00	0.00
ATOM	6381	H	VAL	X	425	42.714	23.156	43.535	0.00	0.00
ATOM	6382	CA	VAL	X	425	44.468	24.317	44.000	0.00	0.00
ATOM	6383	HA	VAL	X	425	44.543	25.392	44.164	0.00	0.00
ATOM	6384	CB	VAL	X	425	45.275	23.636	45.151	0.00	0.00
ATOM	6385	HB	VAL	X	425	44.848	24.101	46.040	0.00	0.00
ATOM	6386	CG1	VAL	X	425	44.892	22.140	45.254	0.00	0.00
ATOM	6387	HG11	VAL	X	425	43.923	22.109	45.753	0.00	0.00
ATOM	6388	HG12	VAL	X	425	44.836	21.716	44.252	0.00	0.00
ATOM	6389	HG13	VAL	X	425	45.593	21.726	45.980	0.00	0.00
ATOM	6390	CG2	VAL	X	425	46.778	23.830	44.947	0.00	0.00
ATOM	6391	HG21	VAL	X	425	46.910	24.875	44.668	0.00	0.00
ATOM	6392	HG22	VAL	X	425	47.118	23.261	44.081	0.00	0.00
ATOM	6393	HG23	VAL	X	425	47.260	23.603	45.897	0.00	0.00
ATOM	6394	C	VAL	X	425	44.992	23.966	42.553	0.00	0.00
ATOM	6395	O	VAL	X	425	44.653	22.939	41.951	0.00	0.00
ATOM	6396	N	PHE	X	426	45.795	24.876	41.991	0.00	0.00
ATOM	6397	H	PHE	X	426	46.091	25.625	42.601	0.00	0.00
ATOM	6398	CA	PHE	X	426	46.512	24.700	40.727	0.00	0.00
ATOM	6399	HA	PHE	X	426	46.096	23.849	40.187	0.00	0.00
ATOM	6400	CB	PHE	X	426	46.313	25.985	39.837	0.00	0.00
ATOM	6401	HB2	PHE	X	426	45.237	25.994	39.664	0.00	0.00
ATOM	6402	HB3	PHE	X	426	46.610	26.945	40.260	0.00	0.00
ATOM	6403	CG	PHE	X	426	47.059	25.978	38.516	0.00	0.00

ATOM	6404	CD1	PHE	X	426	46.492	25.598	37.289	0.00	0.00
ATOM	6405	HD1	PHE	X	426	45.463	25.280	37.211	0.00	0.00
ATOM	6406	CE1	PHE	X	426	47.310	25.591	36.077	0.00	0.00
ATOM	6407	HE1	PHE	X	426	46.824	25.398	35.132	0.00	0.00
ATOM	6408	CZ	PHE	X	426	48.675	25.902	36.192	0.00	0.00
ATOM	6409	HZ	PHE	X	426	49.348	25.968	35.350	0.00	0.00
ATOM	6410	CE2	PHE	X	426	49.279	26.276	37.402	0.00	0.00
ATOM	6411	HE2	PHE	X	426	50.327	26.526	37.483	0.00	0.00
ATOM	6412	CD2	PHE	X	426	48.461	26.344	38.523	0.00	0.00
ATOM	6413	HD2	PHE	X	426	48.890	26.588	39.484	0.00	0.00
ATOM	6414	C	PHE	X	426	47.997	24.277	40.920	0.00	0.00
ATOM	6415	O	PHE	X	426	48.697	25.032	41.570	0.00	0.00
ATOM	6416	N	GLU	X	427	48.474	23.150	40.311	0.00	0.00
ATOM	6417	H	GLU	X	427	47.773	22.480	40.030	0.00	0.00
ATOM	6418	CA	GLU	X	427	49.755	22.525	40.734	0.00	0.00
ATOM	6419	HA	GLU	X	427	50.189	23.171	41.496	0.00	0.00
ATOM	6420	CB	GLU	X	427	49.578	21.118	41.357	0.00	0.00
ATOM	6421	HB2	GLU	X	427	49.001	20.500	40.671	0.00	0.00
ATOM	6422	HB3	GLU	X	427	50.501	20.561	41.522	0.00	0.00
ATOM	6423	CG	GLU	X	427	48.853	21.212	42.738	0.00	0.00
ATOM	6424	HG2	GLU	X	427	49.530	21.701	43.439	0.00	0.00
ATOM	6425	HG3	GLU	X	427	47.890	21.722	42.689	0.00	0.00
ATOM	6426	CD	GLU	X	427	48.636	19.796	43.238	0.00	0.00
ATOM	6427	OE1	GLU	X	427	49.370	19.357	44.148	0.00	0.00
ATOM	6428	OE2	GLU	X	427	47.801	19.066	42.755	0.00	0.00
ATOM	6429	C	GLU	X	427	50.852	22.384	39.714	0.00	0.00
ATOM	6430	O	GLU	X	427	51.958	21.983	40.091	0.00	0.00
ATOM	6431	N	HIE	X	428	50.531	22.546	38.459	0.00	0.00
ATOM	6432	H	HIE	X	428	49.593	22.898	38.332	0.00	0.00
ATOM	6433	CA	HIE	X	428	51.372	22.288	37.322	0.00	0.00
ATOM	6434	HA	HIE	X	428	52.066	21.493	37.599	0.00	0.00
ATOM	6435	CB	HIE	X	428	50.518	21.910	36.125	0.00	0.00
ATOM	6436	HB2	HIE	X	428	50.125	20.917	36.344	0.00	0.00
ATOM	6437	HB3	HIE	X	428	49.760	22.678	35.977	0.00	0.00
ATOM	6438	CG	HIE	X	428	51.334	21.842	34.819	0.00	0.00
ATOM	6439	ND1	HIE	X	428	52.395	21.066	34.605	0.00	0.00
ATOM	6440	CE1	HIE	X	428	52.824	21.179	33.385	0.00	0.00
ATOM	6441	HE1	HIE	X	428	53.695	20.719	32.941	0.00	0.00
ATOM	6442	NE2	HIE	X	428	52.201	22.222	32.787	0.00	0.00
ATOM	6443	HE2	HIE	X	428	52.390	22.666	31.900	0.00	0.00
ATOM	6444	CD2	HIE	X	428	51.226	22.633	33.708	0.00	0.00
ATOM	6445	HD2	HIE	X	428	50.454	23.388	33.709	0.00	0.00
ATOM	6446	C	HIE	X	428	52.281	23.451	37.029	0.00	0.00
ATOM	6447	O	HIE	X	428	51.813	24.466	36.460	0.00	0.00
ATOM	6448	N	ARG	X	429	53.593	23.323	37.290	0.00	0.00
ATOM	6449	H	ARG	X	429	53.953	22.461	37.673	0.00	0.00
ATOM	6450	CA	ARG	X	429	54.506	24.363	36.754	0.00	0.00
ATOM	6451	HA	ARG	X	429	54.223	25.355	37.105	0.00	0.00
ATOM	6452	CB	ARG	X	429	55.894	24.097	37.390	0.00	0.00
ATOM	6453	HB2	ARG	X	429	55.689	23.921	38.446	0.00	0.00
ATOM	6454	HB3	ARG	X	429	56.398	23.241	36.943	0.00	0.00
ATOM	6455	CG	ARG	X	429	56.763	25.386	37.366	0.00	0.00
ATOM	6456	HG2	ARG	X	429	56.920	25.741	36.347	0.00	0.00
ATOM	6457	HG3	ARG	X	429	56.221	26.218	37.815	0.00	0.00
ATOM	6458	CD	ARG	X	429	58.157	24.978	37.910	0.00	0.00
ATOM	6459	HD2	ARG	X	429	57.941	24.429	38.827	0.00	0.00
ATOM	6460	HD3	ARG	X	429	58.759	24.383	37.224	0.00	0.00
ATOM	6461	NE	ARG	X	429	58.850	26.088	38.426	0.00	0.00
ATOM	6462	HE	ARG	X	429	58.673	26.439	39.356	0.00	0.00
ATOM	6463	CZ	ARG	X	429	59.465	26.977	37.613	0.00	0.00
ATOM	6464	NH1	ARG	X	429	59.830	26.642	36.397	0.00	0.00
ATOM	6465	HH11	ARG	X	429	59.559	25.727	36.066	0.00	0.00
ATOM	6466	HH12	ARG	X	429	60.272	27.241	35.715	0.00	0.00
ATOM	6467	NH2	ARG	X	429	59.756	28.111	38.160	0.00	0.00
ATOM	6468	HH21	ARG	X	429	59.550	28.430	39.096	0.00	0.00
ATOM	6469	HH22	ARG	X	429	60.415	28.768	37.767	0.00	0.00
ATOM	6470	C	ARG	X	429	54.654	24.312	35.259	0.00	0.00

ATOM	6471	O	ARG	X	429	54.931	23.223	34.683	0.00	0.00
ATOM	6472	N	ALA	X	430	54.468	25.464	34.563	0.00	0.00
ATOM	6473	H	ALA	X	430	54.139	26.224	35.141	0.00	0.00
ATOM	6474	CA	ALA	X	430	54.385	25.647	33.159	0.00	0.00
ATOM	6475	HA	ALA	X	430	53.662	24.950	32.734	0.00	0.00
ATOM	6476	CB	ALA	X	430	53.700	26.996	32.850	0.00	0.00
ATOM	6477	HB1	ALA	X	430	53.635	27.015	31.762	0.00	0.00
ATOM	6478	HB2	ALA	X	430	54.402	27.814	33.008	0.00	0.00
ATOM	6479	HB3	ALA	X	430	52.703	27.217	33.231	0.00	0.00
ATOM	6480	C	ALA	X	430	55.751	25.526	32.526	0.00	0.00
ATOM	6481	O	ALA	X	430	56.748	26.094	32.900	0.00	0.00
ATOM	6482	N	SER	X	431	55.765	24.923	31.363	0.00	0.00
ATOM	6483	H	SER	X	431	54.908	24.746	30.858	0.00	0.00
ATOM	6484	CA	SER	X	431	57.018	24.722	30.528	0.00	0.00
ATOM	6485	HA	SER	X	431	57.723	24.153	31.135	0.00	0.00
ATOM	6486	CB	SER	X	431	56.643	23.829	29.310	0.00	0.00
ATOM	6487	HB2	SER	X	431	57.476	23.569	28.658	0.00	0.00
ATOM	6488	HB3	SER	X	431	56.295	22.847	29.630	0.00	0.00
ATOM	6489	OG	SER	X	431	55.682	24.397	28.496	0.00	0.00
ATOM	6490	HG	SER	X	431	54.910	23.837	28.604	0.00	0.00
ATOM	6491	C	SER	X	431	57.732	26.041	30.072	0.00	0.00
ATOM	6492	O	SER	X	431	58.844	25.990	29.536	0.00	0.00
ATOM	6493	N	THR	X	432	56.984	27.170	30.156	0.00	0.00
ATOM	6494	H	THR	X	432	56.110	27.007	30.635	0.00	0.00
ATOM	6495	CA	THR	X	432	57.398	28.489	29.759	0.00	0.00
ATOM	6496	HA	THR	X	432	58.269	28.481	29.104	0.00	0.00
ATOM	6497	CB	THR	X	432	56.274	29.216	29.090	0.00	0.00
ATOM	6498	HB	THR	X	432	56.554	30.264	28.983	0.00	0.00
ATOM	6499	CG2	THR	X	432	55.917	28.546	27.732	0.00	0.00
ATOM	6500	HG21	THR	X	432	56.801	28.131	27.248	0.00	0.00
ATOM	6501	HG22	THR	X	432	55.443	29.244	27.042	0.00	0.00
ATOM	6502	HG23	THR	X	432	55.233	27.737	27.991	0.00	0.00
ATOM	6503	OG1	THR	X	432	55.169	29.140	29.954	0.00	0.00
ATOM	6504	HG1	THR	X	432	54.460	29.015	29.319	0.00	0.00
ATOM	6505	C	THR	X	432	57.909	29.317	30.955	0.00	0.00
ATOM	6506	O	THR	X	432	58.428	30.433	30.803	0.00	0.00
ATOM	6507	N	LEU	X	433	57.685	28.822	32.199	0.00	0.00
ATOM	6508	H	LEU	X	433	57.205	27.937	32.281	0.00	0.00
ATOM	6509	CA	LEU	X	433	57.732	29.640	33.420	0.00	0.00
ATOM	6510	HA	LEU	X	433	57.122	30.529	33.257	0.00	0.00
ATOM	6511	CB	LEU	X	433	57.115	28.946	34.604	0.00	0.00
ATOM	6512	HB2	LEU	X	433	56.068	28.818	34.330	0.00	0.00
ATOM	6513	HB3	LEU	X	433	57.501	27.930	34.687	0.00	0.00
ATOM	6514	CG	LEU	X	433	57.210	29.803	35.954	0.00	0.00
ATOM	6515	HG	LEU	X	433	58.245	29.741	36.291	0.00	0.00
ATOM	6516	CD1	LEU	X	433	56.481	31.149	35.851	0.00	0.00
ATOM	6517	HD11	LEU	X	433	56.599	31.756	36.748	0.00	0.00
ATOM	6518	HD12	LEU	X	433	55.412	31.027	35.675	0.00	0.00
ATOM	6519	HD13	LEU	X	433	56.925	31.691	35.016	0.00	0.00
ATOM	6520	CD2	LEU	X	433	56.508	28.918	36.914	0.00	0.00
ATOM	6521	HD21	LEU	X	433	56.308	29.487	37.822	0.00	0.00
ATOM	6522	HD22	LEU	X	433	55.518	28.730	36.498	0.00	0.00
ATOM	6523	HD23	LEU	X	433	57.112	28.030	37.098	0.00	0.00
ATOM	6524	C	LEU	X	433	59.193	30.169	33.586	0.00	0.00
ATOM	6525	O	LEU	X	433	60.103	29.441	33.272	0.00	0.00
ATOM	6526	N	SER	X	434	59.349	31.444	33.972	0.00	0.00
ATOM	6527	H	SER	X	434	58.539	32.029	34.118	0.00	0.00
ATOM	6528	CA	SER	X	434	60.629	32.127	34.010	0.00	0.00
ATOM	6529	HA	SER	X	434	61.381	31.709	33.341	0.00	0.00
ATOM	6530	CB	SER	X	434	60.427	33.543	33.448	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.406	34.011	33.543	0.00	0.00
ATOM	6532	HB3	SER	X	434	60.167	33.335	32.410	0.00	0.00
ATOM	6533	OG	SER	X	434	59.399	34.351	34.035	0.00	0.00
ATOM	6534	HG	SER	X	434	58.631	34.411	33.462	0.00	0.00
ATOM	6535	C	SER	X	434	61.329	32.274	35.404	0.00	0.00
ATOM	6536	O	SER	X	434	62.533	32.090	35.404	0.00	0.00
ATOM	6537	N	TRP	X	435	60.604	32.412	36.525	0.00	0.00

ATOM	6538	H	TRP	X	435	59.618	32.626	36.480	0.00	0.00
ATOM	6539	CA	TRP	X	435	61.256	32.526	37.878	0.00	0.00
ATOM	6540	HA	TRP	X	435	61.964	33.346	37.760	0.00	0.00
ATOM	6541	CB	TRP	X	435	60.117	32.792	38.894	0.00	0.00
ATOM	6542	HB2	TRP	X	435	59.357	32.029	38.724	0.00	0.00
ATOM	6543	HB3	TRP	X	435	60.548	32.669	39.888	0.00	0.00
ATOM	6544	CG	TRP	X	435	59.368	34.055	38.823	0.00	0.00
ATOM	6545	CD1	TRP	X	435	58.242	34.397	38.167	0.00	0.00
ATOM	6546	HD1	TRP	X	435	57.763	33.787	37.414	0.00	0.00
ATOM	6547	NE1	TRP	X	435	57.878	35.696	38.357	0.00	0.00
ATOM	6548	HE1	TRP	X	435	57.147	36.229	37.909	0.00	0.00
ATOM	6549	CE2	TRP	X	435	58.818	36.287	39.180	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	59.017	37.656	39.529	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	58.336	38.433	39.213	0.00	0.00
ATOM	6552	CH2	TRP	X	435	60.153	37.980	40.359	0.00	0.00
ATOM	6553	HH2	TRP	X	435	60.427	38.966	40.706	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	61.061	36.898	40.705	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	61.967	37.174	41.223	0.00	0.00
ATOM	6556	CE3	TRP	X	435	60.828	35.628	40.316	0.00	0.00
ATOM	6557	HE3	TRP	X	435	61.429	34.840	40.746	0.00	0.00
ATOM	6558	CD2	TRP	X	435	59.781	35.283	39.500	0.00	0.00
ATOM	6559	C	TRP	X	435	61.932	31.228	38.266	0.00	0.00
ATOM	6560	O	TRP	X	435	61.647	30.235	37.608	0.00	0.00
ATOM	6561	N	PRO	X	436	62.808	31.232	39.275	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.433	32.414	39.855	0.00	0.00
ATOM	6563	HD2	PRO	X	436	62.707	32.850	40.542	0.00	0.00
ATOM	6564	HD3	PRO	X	436	63.692	33.201	39.147	0.00	0.00
ATOM	6565	CG	PRO	X	436	64.609	32.013	40.706	0.00	0.00
ATOM	6566	HG2	PRO	X	436	64.737	32.630	41.596	0.00	0.00
ATOM	6567	HG3	PRO	X	436	65.499	32.146	40.091	0.00	0.00
ATOM	6568	CB	PRO	X	436	64.369	30.509	41.012	0.00	0.00
ATOM	6569	HB2	PRO	X	436	63.850	30.359	41.958	0.00	0.00
ATOM	6570	HB3	PRO	X	436	65.375	30.093	41.061	0.00	0.00
ATOM	6571	CA	PRO	X	436	63.579	30.097	39.774	0.00	0.00
ATOM	6572	HA	PRO	X	436	64.272	29.983	38.940	0.00	0.00
ATOM	6573	C	PRO	X	436	62.790	28.850	39.828	0.00	0.00
ATOM	6574	O	PRO	X	436	61.774	28.930	40.504	0.00	0.00
ATOM	6575	N	LEU	X	437	63.277	27.752	39.235	0.00	0.00
ATOM	6576	H	LEU	X	437	64.133	27.921	38.726	0.00	0.00
ATOM	6577	CA	LEU	X	437	62.752	26.437	39.183	0.00	0.00
ATOM	6578	HA	LEU	X	437	61.906	26.469	38.496	0.00	0.00
ATOM	6579	CB	LEU	X	437	63.845	25.483	38.587	0.00	0.00
ATOM	6580	HB2	LEU	X	437	64.008	25.823	37.564	0.00	0.00
ATOM	6581	HB3	LEU	X	437	64.751	25.697	39.153	0.00	0.00
ATOM	6582	CG	LEU	X	437	63.406	24.087	38.660	0.00	0.00
ATOM	6583	HG	LEU	X	437	63.273	23.771	39.694	0.00	0.00
ATOM	6584	CD1	LEU	X	437	62.016	23.782	38.100	0.00	0.00
ATOM	6585	HD11	LEU	X	437	61.825	22.713	38.196	0.00	0.00
ATOM	6586	HD12	LEU	X	437	61.866	24.045	37.053	0.00	0.00
ATOM	6587	HD13	LEU	X	437	61.169	24.197	38.646	0.00	0.00
ATOM	6588	CD2	LEU	X	437	64.330	23.183	37.893	0.00	0.00
ATOM	6589	HD21	LEU	X	437	64.159	23.313	36.825	0.00	0.00
ATOM	6590	HD22	LEU	X	437	65.385	23.322	38.129	0.00	0.00
ATOM	6591	HD23	LEU	X	437	64.240	22.154	38.242	0.00	0.00
ATOM	6592	C	LEU	X	437	62.227	26.000	40.577	0.00	0.00
ATOM	6593	O	LEU	X	437	61.054	25.611	40.712	0.00	0.00
ATOM	6594	N	TRP	X	438	62.949	26.305	41.640	0.00	0.00
ATOM	6595	H	TRP	X	438	63.795	26.850	41.554	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.542	25.801	42.949	0.00	0.00
ATOM	6597	HA	TRP	X	438	62.256	24.753	42.858	0.00	0.00
ATOM	6598	CB	TRP	X	438	63.740	25.821	43.995	0.00	0.00
ATOM	6599	HB2	TRP	X	438	63.431	25.629	45.023	0.00	0.00
ATOM	6600	HB3	TRP	X	438	64.501	25.084	43.738	0.00	0.00
ATOM	6601	CG	TRP	X	438	64.508	27.145	43.918	0.00	0.00
ATOM	6602	CD1	TRP	X	438	65.651	27.393	43.266	0.00	0.00
ATOM	6603	HD1	TRP	X	438	66.233	26.696	42.681	0.00	0.00
ATOM	6604	NE1	TRP	X	438	65.968	28.680	43.412	0.00	0.00

ATOM	6605	HE1	TRP	X	438	66.689	29.132	42.867	0.00	0.00
ATOM	6606	CE2	TRP	X	438	65.144	29.401	44.264	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	65.112	30.711	44.744	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	65.907	31.412	44.537	0.00	0.00
ATOM	6609	CH2	TRP	X	438	64.010	31.172	45.407	0.00	0.00
ATOM	6610	HH2	TRP	X	438	63.913	32.225	45.627	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	62.960	30.326	45.737	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	62.124	30.670	46.328	0.00	0.00
ATOM	6613	CE3	TRP	X	438	63.037	28.961	45.303	0.00	0.00
ATOM	6614	HE3	TRP	X	438	62.352	28.198	45.641	0.00	0.00
ATOM	6615	CD2	TRP	X	438	64.107	28.428	44.531	0.00	0.00
ATOM	6616	C	TRP	X	438	61.222	26.459	43.539	0.00	0.00
ATOM	6617	O	TRP	X	438	60.557	25.905	44.454	0.00	0.00
ATOM	6618	N	MET	X	439	60.866	27.661	43.050	0.00	0.00
ATOM	6619	H	MET	X	439	61.395	28.040	42.278	0.00	0.00
ATOM	6620	CA	MET	X	439	59.603	28.354	43.400	0.00	0.00
ATOM	6621	HA	MET	X	439	59.434	28.504	44.466	0.00	0.00
ATOM	6622	CB	MET	X	439	59.545	29.791	42.837	0.00	0.00
ATOM	6623	HB2	MET	X	439	59.844	29.739	41.790	0.00	0.00
ATOM	6624	HB3	MET	X	439	58.520	30.162	42.844	0.00	0.00
ATOM	6625	CG	MET	X	439	60.569	30.706	43.522	0.00	0.00
ATOM	6626	HG2	MET	X	439	60.401	30.781	44.596	0.00	0.00
ATOM	6627	HG3	MET	X	439	61.563	30.273	43.407	0.00	0.00
ATOM	6628	SD	MET	X	439	60.512	32.417	42.860	0.00	0.00
ATOM	6629	CE	MET	X	439	61.887	33.142	43.816	0.00	0.00
ATOM	6630	HE1	MET	X	439	61.793	34.206	43.601	0.00	0.00
ATOM	6631	HE2	MET	X	439	61.702	33.067	44.887	0.00	0.00
ATOM	6632	HE3	MET	X	439	62.767	32.577	43.510	0.00	0.00
ATOM	6633	C	MET	X	439	58.298	27.626	43.002	0.00	0.00
ATOM	6634	O	MET	X	439	57.255	27.906	43.589	0.00	0.00
ATOM	6635	N	GLY	X	440	58.343	26.691	42.064	0.00	0.00
ATOM	6636	H	GLY	X	440	59.240	26.551	41.621	0.00	0.00
ATOM	6637	CA	GLY	X	440	57.220	25.859	41.696	0.00	0.00
ATOM	6638	HA2	GLY	X	440	57.485	25.101	40.959	0.00	0.00
ATOM	6639	HA3	GLY	X	440	56.831	25.253	42.514	0.00	0.00
ATOM	6640	C	GLY	X	440	56.201	26.740	40.927	0.00	0.00
ATOM	6641	O	GLY	X	440	56.614	27.274	39.917	0.00	0.00
ATOM	6642	N	VAL	X	441	55.040	27.032	41.527	0.00	0.00
ATOM	6643	H	VAL	X	441	54.878	26.441	42.330	0.00	0.00
ATOM	6644	CA	VAL	X	441	53.927	27.755	40.982	0.00	0.00
ATOM	6645	HA	VAL	X	441	54.181	28.131	39.991	0.00	0.00
ATOM	6646	CB	VAL	X	441	52.578	26.982	40.769	0.00	0.00
ATOM	6647	HB	VAL	X	441	52.064	26.758	41.703	0.00	0.00
ATOM	6648	CG1	VAL	X	441	51.560	27.739	39.906	0.00	0.00
ATOM	6649	HG11	VAL	X	441	51.896	27.876	38.879	0.00	0.00
ATOM	6650	HG12	VAL	X	441	50.652	27.199	40.176	0.00	0.00
ATOM	6651	HG13	VAL	X	441	51.409	28.763	40.249	0.00	0.00
ATOM	6652	CG2	VAL	X	441	52.652	25.622	40.019	0.00	0.00
ATOM	6653	HG21	VAL	X	441	51.739	25.335	39.496	0.00	0.00
ATOM	6654	HG22	VAL	X	441	53.040	24.814	40.639	0.00	0.00
ATOM	6655	HG23	VAL	X	441	53.418	25.586	39.244	0.00	0.00
ATOM	6656	C	VAL	X	441	53.672	29.024	41.775	0.00	0.00
ATOM	6657	O	VAL	X	441	52.956	28.967	42.784	0.00	0.00
ATOM	6658	N	PRO	X	442	54.258	30.197	41.394	0.00	0.00
ATOM	6659	CD	PRO	X	442	55.074	30.446	40.235	0.00	0.00
ATOM	6660	HD2	PRO	X	442	54.417	30.744	39.418	0.00	0.00
ATOM	6661	HD3	PRO	X	442	55.664	29.565	39.985	0.00	0.00
ATOM	6662	CG	PRO	X	442	55.978	31.609	40.631	0.00	0.00
ATOM	6663	HG2	PRO	X	442	56.176	32.194	39.732	0.00	0.00
ATOM	6664	HG3	PRO	X	442	56.887	31.234	41.102	0.00	0.00
ATOM	6665	CB	PRO	X	442	55.166	32.380	41.641	0.00	0.00
ATOM	6666	HB2	PRO	X	442	54.609	33.192	41.174	0.00	0.00
ATOM	6667	HB3	PRO	X	442	55.838	32.717	42.430	0.00	0.00
ATOM	6668	CA	PRO	X	442	54.095	31.448	42.155	0.00	0.00
ATOM	6669	HA	PRO	X	442	54.234	31.127	43.187	0.00	0.00
ATOM	6670	C	PRO	X	442	52.703	32.037	42.090	0.00	0.00
ATOM	6671	O	PRO	X	442	52.015	31.879	41.079	0.00	0.00

ATOM	6672	N	HIP	X	443	52.343	32.775	43.123	0.00	0.00
ATOM	6673	H	HIP	X	443	53.057	32.876	43.830	0.00	0.00
ATOM	6674	CA	HIP	X	443	51.060	33.577	43.270	0.00	0.00
ATOM	6675	HA	HIP	X	443	50.212	33.022	43.672	0.00	0.00
ATOM	6676	CB	HIP	X	443	51.438	34.601	44.342	0.00	0.00
ATOM	6677	HB2	HIP	X	443	51.446	33.975	45.234	0.00	0.00
ATOM	6678	HB3	HIP	X	443	52.411	35.008	44.067	0.00	0.00
ATOM	6679	CG	HIP	X	443	50.438	35.609	44.490	0.00	0.00
ATOM	6680	ND1	HIP	X	443	49.216	35.554	45.216	0.00	0.00
ATOM	6681	HD1	HIP	X	443	48.880	34.730	45.695	0.00	0.00
ATOM	6682	CE1	HIP	X	443	48.579	36.755	45.039	0.00	0.00
ATOM	6683	HE1	HIP	X	443	47.642	36.998	45.520	0.00	0.00
ATOM	6684	NE2	HIP	X	443	49.443	37.583	44.387	0.00	0.00
ATOM	6685	HE2	HIP	X	443	49.252	38.566	44.253	0.00	0.00
ATOM	6686	CD2	HIP	X	443	50.563	36.871	43.997	0.00	0.00
ATOM	6687	HD2	HIP	X	443	51.311	37.182	43.282	0.00	0.00
ATOM	6688	C	HIP	X	443	50.643	34.200	41.956	0.00	0.00
ATOM	6689	O	HIP	X	443	51.379	35.049	41.458	0.00	0.00
ATOM	6690	N	GLY	X	444	49.415	33.874	41.513	0.00	0.00
ATOM	6691	H	GLY	X	444	48.918	33.257	42.140	0.00	0.00
ATOM	6692	CA	GLY	X	444	48.732	34.498	40.345	0.00	0.00
ATOM	6693	HA2	GLY	X	444	47.738	34.097	40.543	0.00	0.00
ATOM	6694	HA3	GLY	X	444	49.036	35.543	40.276	0.00	0.00
ATOM	6695	C	GLY	X	444	48.969	33.940	38.912	0.00	0.00
ATOM	6696	O	GLY	X	444	48.473	34.477	37.936	0.00	0.00
ATOM	6697	N	TYR	X	445	49.598	32.788	38.810	0.00	0.00
ATOM	6698	H	TYR	X	445	49.931	32.504	39.720	0.00	0.00
ATOM	6699	CA	TYR	X	445	50.088	32.265	37.522	0.00	0.00
ATOM	6700	HA	TYR	X	445	50.091	33.066	36.783	0.00	0.00
ATOM	6701	CB	TYR	X	445	51.486	31.600	37.560	0.00	0.00
ATOM	6702	HB2	TYR	X	445	51.738	31.166	38.527	0.00	0.00
ATOM	6703	HB3	TYR	X	445	51.454	30.755	36.873	0.00	0.00
ATOM	6704	CG	TYR	X	445	52.566	32.543	37.197	0.00	0.00
ATOM	6705	CD1	TYR	X	445	52.877	32.689	35.854	0.00	0.00
ATOM	6706	HD1	TYR	X	445	52.384	32.044	35.142	0.00	0.00
ATOM	6707	CE1	TYR	X	445	53.763	33.742	35.438	0.00	0.00
ATOM	6708	HE1	TYR	X	445	53.721	34.037	34.400	0.00	0.00
ATOM	6709	CZ	TYR	X	445	54.504	34.475	36.402	0.00	0.00
ATOM	6710	OH	TYR	X	445	55.572	35.226	36.047	0.00	0.00
ATOM	6711	HH	TYR	X	445	55.599	35.330	35.093	0.00	0.00
ATOM	6712	CE2	TYR	X	445	54.181	34.366	37.712	0.00	0.00
ATOM	6713	HE2	TYR	X	445	54.619	35.086	38.388	0.00	0.00
ATOM	6714	CD2	TYR	X	445	53.214	33.412	38.155	0.00	0.00
ATOM	6715	HD2	TYR	X	445	53.053	33.282	39.214	0.00	0.00
ATOM	6716	C	TYR	X	445	49.076	31.309	36.889	0.00	0.00
ATOM	6717	O	TYR	X	445	49.338	30.722	35.814	0.00	0.00
ATOM	6718	N	GLU	X	446	47.970	30.944	37.512	0.00	0.00
ATOM	6719	H	GLU	X	446	47.744	31.248	38.449	0.00	0.00
ATOM	6720	CA	GLU	X	446	46.895	30.103	36.908	0.00	0.00
ATOM	6721	HA	GLU	X	446	47.441	29.476	36.203	0.00	0.00
ATOM	6722	CB	GLU	X	446	46.200	29.107	37.872	0.00	0.00
ATOM	6723	HB2	GLU	X	446	45.828	28.248	37.314	0.00	0.00
ATOM	6724	HB3	GLU	X	446	46.911	28.940	38.681	0.00	0.00
ATOM	6725	CG	GLU	X	446	44.979	29.550	38.662	0.00	0.00
ATOM	6726	HG2	GLU	X	446	44.168	29.849	37.997	0.00	0.00
ATOM	6727	HG3	GLU	X	446	44.665	28.675	39.232	0.00	0.00
ATOM	6728	CD	GLU	X	446	45.250	30.739	39.601	0.00	0.00
ATOM	6729	OE1	GLU	X	446	45.515	31.795	39.084	0.00	0.00
ATOM	6730	OE2	GLU	X	446	45.107	30.558	40.820	0.00	0.00
ATOM	6731	C	GLU	X	446	45.826	30.857	36.121	0.00	0.00
ATOM	6732	O	GLU	X	446	45.133	30.248	35.345	0.00	0.00
ATOM	6733	N	ILE	X	447	45.700	32.229	36.277	0.00	0.00
ATOM	6734	H	ILE	X	447	46.196	32.692	37.026	0.00	0.00
ATOM	6735	CA	ILE	X	447	45.215	33.162	35.222	0.00	0.00
ATOM	6736	HA	ILE	X	447	44.129	33.076	35.268	0.00	0.00
ATOM	6737	CB	ILE	X	447	45.535	34.660	35.413	0.00	0.00
ATOM	6738	HB	ILE	X	447	44.854	35.127	34.702	0.00	0.00

ATOM	6739	CG2	ILE	X	447	44.982	35.035	36.795	0.00	0.00
ATOM	6740	HG21	ILE	X	447	43.959	34.663	36.841	0.00	0.00
ATOM	6741	HG22	ILE	X	447	44.990	36.125	36.774	0.00	0.00
ATOM	6742	HG23	ILE	X	447	45.656	34.647	37.559	0.00	0.00
ATOM	6743	CG1	ILE	X	447	46.974	35.033	34.960	0.00	0.00
ATOM	6744	HG12	ILE	X	447	47.630	34.405	35.561	0.00	0.00
ATOM	6745	HG13	ILE	X	447	47.203	34.762	33.929	0.00	0.00
ATOM	6746	CD1	ILE	X	447	47.376	36.484	35.155	0.00	0.00
ATOM	6747	HD11	ILE	X	447	46.692	36.932	34.435	0.00	0.00
ATOM	6748	HD12	ILE	X	447	48.433	36.590	34.911	0.00	0.00
ATOM	6749	HD13	ILE	X	447	47.287	36.914	36.152	0.00	0.00
ATOM	6750	C	ILE	X	447	45.588	32.691	33.742	0.00	0.00
ATOM	6751	O	ILE	X	447	44.757	32.872	32.843	0.00	0.00
ATOM	6752	N	GLU	X	448	46.782	32.138	33.598	0.00	0.00
ATOM	6753	H	GLU	X	448	47.284	31.873	34.434	0.00	0.00
ATOM	6754	CA	GLU	X	448	47.362	31.792	32.301	0.00	0.00
ATOM	6755	HA	GLU	X	448	47.304	32.749	31.781	0.00	0.00
ATOM	6756	CB	GLU	X	448	48.908	31.385	32.385	0.00	0.00
ATOM	6757	HB2	GLU	X	448	49.095	30.592	33.108	0.00	0.00
ATOM	6758	HB3	GLU	X	448	49.289	31.048	31.421	0.00	0.00
ATOM	6759	CG	GLU	X	448	49.754	32.622	32.799	0.00	0.00
ATOM	6760	HG2	GLU	X	448	49.315	33.509	32.341	0.00	0.00
ATOM	6761	HG3	GLU	X	448	49.651	32.840	33.862	0.00	0.00
ATOM	6762	CD	GLU	X	448	51.252	32.399	32.351	0.00	0.00
ATOM	6763	OE1	GLU	X	448	51.796	33.226	31.572	0.00	0.00
ATOM	6764	OE2	GLU	X	448	51.896	31.457	32.808	0.00	0.00
ATOM	6765	C	GLU	X	448	46.554	30.736	31.538	0.00	0.00
ATOM	6766	O	GLU	X	448	46.489	30.789	30.291	0.00	0.00
ATOM	6767	N	PHE	X	449	45.855	29.872	32.237	0.00	0.00
ATOM	6768	H	PHE	X	449	45.839	30.034	33.234	0.00	0.00
ATOM	6769	CA	PHE	X	449	45.109	28.768	31.702	0.00	0.00
ATOM	6770	HA	PHE	X	449	45.369	28.456	30.691	0.00	0.00
ATOM	6771	CB	PHE	X	449	45.430	27.582	32.630	0.00	0.00
ATOM	6772	HB2	PHE	X	449	45.364	27.949	33.654	0.00	0.00
ATOM	6773	HB3	PHE	X	449	44.628	26.845	32.593	0.00	0.00
ATOM	6774	CG	PHE	X	449	46.813	26.953	32.302	0.00	0.00
ATOM	6775	CD1	PHE	X	449	47.987	27.351	32.991	0.00	0.00
ATOM	6776	HD1	PHE	X	449	47.950	28.124	33.745	0.00	0.00
ATOM	6777	CE1	PHE	X	449	49.213	26.855	32.622	0.00	0.00
ATOM	6778	HE1	PHE	X	449	50.083	27.254	33.123	0.00	0.00
ATOM	6779	CZ	PHE	X	449	49.391	25.882	31.624	0.00	0.00
ATOM	6780	HZ	PHE	X	449	50.382	25.532	31.375	0.00	0.00
ATOM	6781	CE2	PHE	X	449	48.184	25.424	30.953	0.00	0.00
ATOM	6782	HE2	PHE	X	449	48.170	24.549	30.319	0.00	0.00
ATOM	6783	CD2	PHE	X	449	46.924	25.867	31.386	0.00	0.00
ATOM	6784	HD2	PHE	X	449	46.003	25.387	31.090	0.00	0.00
ATOM	6785	C	PHE	X	449	43.646	29.157	31.598	0.00	0.00
ATOM	6786	O	PHE	X	449	42.951	28.454	30.871	0.00	0.00
ATOM	6787	N	ILE	X	450	43.161	30.153	32.289	0.00	0.00
ATOM	6788	H	ILE	X	450	43.791	30.736	32.822	0.00	0.00
ATOM	6789	CA	ILE	X	450	41.814	30.759	32.159	0.00	0.00
ATOM	6790	HA	ILE	X	450	41.125	29.921	32.056	0.00	0.00
ATOM	6791	CB	ILE	X	450	41.340	31.590	33.343	0.00	0.00
ATOM	6792	HB	ILE	X	450	41.595	32.645	33.243	0.00	0.00
ATOM	6793	CG2	ILE	X	450	39.824	31.445	33.407	0.00	0.00
ATOM	6794	HG21	ILE	X	450	39.472	32.079	34.221	0.00	0.00
ATOM	6795	HG22	ILE	X	450	39.483	30.421	33.559	0.00	0.00
ATOM	6796	HG23	ILE	X	450	39.372	31.846	32.500	0.00	0.00
ATOM	6797	CG1	ILE	X	450	41.964	31.102	34.670	0.00	0.00
ATOM	6798	HG12	ILE	X	450	43.041	31.256	34.601	0.00	0.00
ATOM	6799	HG13	ILE	X	450	41.568	31.695	35.494	0.00	0.00
ATOM	6800	CD1	ILE	X	450	41.633	29.595	34.966	0.00	0.00
ATOM	6801	HD11	ILE	X	450	42.219	29.250	35.818	0.00	0.00
ATOM	6802	HD12	ILE	X	450	41.781	28.960	34.093	0.00	0.00
ATOM	6803	HD13	ILE	X	450	40.574	29.516	35.211	0.00	0.00
ATOM	6804	C	ILE	X	450	41.731	31.566	30.839	0.00	0.00
ATOM	6805	O	ILE	X	450	40.834	31.386	29.992	0.00	0.00

ATOM	6806	N	PHE	X	451	42.620	32.529	30.711	0.00	0.00
ATOM	6807	H	PHE	X	451	43.076	32.840	31.556	0.00	0.00
ATOM	6808	CA	PHE	X	451	42.873	33.292	29.480	0.00	0.00
ATOM	6809	HA	PHE	X	451	41.893	33.661	29.178	0.00	0.00
ATOM	6810	CB	PHE	X	451	43.797	34.497	29.771	0.00	0.00
ATOM	6811	HB2	PHE	X	451	44.657	34.121	30.325	0.00	0.00
ATOM	6812	HB3	PHE	X	451	44.220	35.024	28.916	0.00	0.00
ATOM	6813	CG	PHE	X	451	43.096	35.582	30.570	0.00	0.00
ATOM	6814	CD1	PHE	X	451	43.316	35.656	31.951	0.00	0.00
ATOM	6815	HD1	PHE	X	451	43.835	34.912	32.537	0.00	0.00
ATOM	6816	CE1	PHE	X	451	42.691	36.715	32.706	0.00	0.00
ATOM	6817	HE1	PHE	X	451	42.794	36.750	33.780	0.00	0.00
ATOM	6818	CZ	PHE	X	451	41.768	37.589	32.095	0.00	0.00
ATOM	6819	HZ	PHE	X	451	41.254	38.274	32.753	0.00	0.00
ATOM	6820	CE2	PHE	X	451	41.549	37.430	30.678	0.00	0.00
ATOM	6821	HE2	PHE	X	451	40.792	38.054	30.224	0.00	0.00
ATOM	6822	CD2	PHE	X	451	42.191	36.443	29.963	0.00	0.00
ATOM	6823	HD2	PHE	X	451	42.041	36.352	28.897	0.00	0.00
ATOM	6824	C	PHE	X	451	43.329	32.439	28.270	0.00	0.00
ATOM	6825	O	PHE	X	451	43.762	33.042	27.257	0.00	0.00
ATOM	6826	N	GLY	X	452	43.383	31.072	28.357	0.00	0.00
ATOM	6827	H	GLY	X	452	42.958	30.585	29.133	0.00	0.00
ATOM	6828	CA	GLY	X	452	43.910	30.273	27.255	0.00	0.00
ATOM	6829	HA2	GLY	X	452	43.810	29.221	27.524	0.00	0.00
ATOM	6830	HA3	GLY	X	452	43.371	30.440	26.322	0.00	0.00
ATOM	6831	C	GLY	X	452	45.344	30.501	26.782	0.00	0.00
ATOM	6832	O	GLY	X	452	45.628	30.177	25.656	0.00	0.00
ATOM	6833	N	ILE	X	453	46.235	31.101	27.565	0.00	0.00
ATOM	6834	H	ILE	X	453	46.021	31.394	28.507	0.00	0.00
ATOM	6835	CA	ILE	X	453	47.572	31.508	26.993	0.00	0.00
ATOM	6836	HA	ILE	X	453	47.318	32.206	26.196	0.00	0.00
ATOM	6837	CB	ILE	X	453	48.427	32.216	28.105	0.00	0.00
ATOM	6838	HB	ILE	X	453	48.660	31.412	28.803	0.00	0.00
ATOM	6839	CG2	ILE	X	453	49.807	32.568	27.570	0.00	0.00
ATOM	6840	HG21	ILE	X	453	49.674	33.306	26.778	0.00	0.00
ATOM	6841	HG22	ILE	X	453	50.329	31.675	27.225	0.00	0.00
ATOM	6842	HG23	ILE	X	453	50.325	33.048	28.400	0.00	0.00
ATOM	6843	CG1	ILE	X	453	47.754	33.387	28.856	0.00	0.00
ATOM	6844	HG12	ILE	X	453	46.740	33.168	29.191	0.00	0.00
ATOM	6845	HG13	ILE	X	453	48.461	33.656	29.641	0.00	0.00
ATOM	6846	CD1	ILE	X	453	47.633	34.655	28.071	0.00	0.00
ATOM	6847	HD11	ILE	X	453	48.601	35.156	28.059	0.00	0.00
ATOM	6848	HD12	ILE	X	453	46.938	35.323	28.581	0.00	0.00
ATOM	6849	HD13	ILE	X	453	47.325	34.336	27.075	0.00	0.00
ATOM	6850	C	ILE	X	453	48.296	30.434	26.233	0.00	0.00
ATOM	6851	O	ILE	X	453	48.932	30.799	25.252	0.00	0.00
ATOM	6852	N	PRO	X	454	48.343	29.163	26.640	0.00	0.00
ATOM	6853	CD	PRO	X	454	47.910	28.684	27.980	0.00	0.00
ATOM	6854	HD2	PRO	X	454	46.836	28.796	28.131	0.00	0.00
ATOM	6855	HD3	PRO	X	454	48.363	29.274	28.777	0.00	0.00
ATOM	6856	CG	PRO	X	454	48.327	27.231	28.067	0.00	0.00
ATOM	6857	HG2	PRO	X	454	47.537	26.781	28.669	0.00	0.00
ATOM	6858	HG3	PRO	X	454	49.225	27.044	28.655	0.00	0.00
ATOM	6859	CB	PRO	X	454	48.442	26.794	26.644	0.00	0.00
ATOM	6860	HB2	PRO	X	454	47.490	26.434	26.253	0.00	0.00
ATOM	6861	HB3	PRO	X	454	49.164	26.007	26.429	0.00	0.00
ATOM	6862	CA	PRO	X	454	48.971	28.059	25.971	0.00	0.00
ATOM	6863	HA	PRO	X	454	50.045	28.223	26.057	0.00	0.00
ATOM	6864	C	PRO	X	454	48.744	27.991	24.447	0.00	0.00
ATOM	6865	O	PRO	X	454	49.560	27.511	23.672	0.00	0.00
ATOM	6866	N	LEU	X	455	47.595	28.590	23.937	0.00	0.00
ATOM	6867	H	LEU	X	455	46.960	29.095	24.538	0.00	0.00
ATOM	6868	CA	LEU	X	455	47.199	28.505	22.572	0.00	0.00
ATOM	6869	HA	LEU	X	455	47.474	27.520	22.195	0.00	0.00
ATOM	6870	CB	LEU	X	455	45.688	28.718	22.467	0.00	0.00
ATOM	6871	HB2	LEU	X	455	45.474	29.642	23.004	0.00	0.00
ATOM	6872	HB3	LEU	X	455	45.453	28.901	21.418	0.00	0.00

ATOM	6873	CG	LEU	X	455	44.930	27.519	22.953	0.00	0.00
ATOM	6874	HG	LEU	X	455	45.243	27.219	23.953	0.00	0.00
ATOM	6875	CD1	LEU	X	455	43.458	27.916	23.096	0.00	0.00
ATOM	6876	HD11	LEU	X	455	43.002	28.272	22.172	0.00	0.00
ATOM	6877	HD12	LEU	X	455	43.416	28.745	23.803	0.00	0.00
ATOM	6878	HD13	LEU	X	455	42.897	27.170	23.660	0.00	0.00
ATOM	6879	CD2	LEU	X	455	44.899	26.350	22.019	0.00	0.00
ATOM	6880	HD21	LEU	X	455	44.698	25.402	22.519	0.00	0.00
ATOM	6881	HD22	LEU	X	455	44.063	26.375	21.320	0.00	0.00
ATOM	6882	HD23	LEU	X	455	45.889	26.144	21.613	0.00	0.00
ATOM	6883	C	LEU	X	455	47.855	29.621	21.728	0.00	0.00
ATOM	6884	O	LEU	X	455	47.857	29.563	20.513	0.00	0.00
ATOM	6885	N	ASP	X	456	48.501	30.620	22.359	0.00	0.00
ATOM	6886	H	ASP	X	456	48.554	30.592	23.368	0.00	0.00
ATOM	6887	CA	ASP	X	456	49.272	31.628	21.623	0.00	0.00
ATOM	6888	HA	ASP	X	456	48.611	31.919	20.807	0.00	0.00
ATOM	6889	CB	ASP	X	456	49.374	32.945	22.367	0.00	0.00
ATOM	6890	HB2	ASP	X	456	48.369	33.309	22.582	0.00	0.00
ATOM	6891	HB3	ASP	X	456	49.902	32.780	23.307	0.00	0.00
ATOM	6892	CG	ASP	X	456	50.128	33.980	21.448	0.00	0.00
ATOM	6893	OD1	ASP	X	456	51.385	33.935	21.409	0.00	0.00
ATOM	6894	OD2	ASP	X	456	49.424	34.559	20.652	0.00	0.00
ATOM	6895	C	ASP	X	456	50.563	31.026	21.084	0.00	0.00
ATOM	6896	O	ASP	X	456	51.321	30.298	21.742	0.00	0.00
ATOM	6897	N	PRO	X	457	50.839	31.189	19.735	0.00	0.00
ATOM	6898	CD	PRO	X	457	49.911	31.769	18.712	0.00	0.00
ATOM	6899	HD2	PRO	X	457	49.647	32.813	18.881	0.00	0.00
ATOM	6900	HD3	PRO	X	457	49.015	31.149	18.672	0.00	0.00
ATOM	6901	CG	PRO	X	457	50.597	31.679	17.355	0.00	0.00
ATOM	6902	HG2	PRO	X	457	51.073	32.626	17.101	0.00	0.00
ATOM	6903	HG3	PRO	X	457	49.847	31.393	16.618	0.00	0.00
ATOM	6904	CB	PRO	X	457	51.622	30.617	17.667	0.00	0.00
ATOM	6905	HB2	PRO	X	457	52.501	30.812	17.052	0.00	0.00
ATOM	6906	HB3	PRO	X	457	51.162	29.654	17.445	0.00	0.00
ATOM	6907	CA	PRO	X	457	51.957	30.516	19.111	0.00	0.00
ATOM	6908	HA	PRO	X	457	51.963	29.434	19.247	0.00	0.00
ATOM	6909	C	PRO	X	457	53.386	31.106	19.410	0.00	0.00
ATOM	6910	O	PRO	X	457	54.410	30.518	19.097	0.00	0.00
ATOM	6911	N	SER	X	458	53.434	32.401	19.859	0.00	0.00
ATOM	6912	H	SER	X	458	52.581	32.914	20.028	0.00	0.00
ATOM	6913	CA	SER	X	458	54.655	33.265	19.977	0.00	0.00
ATOM	6914	HA	SER	X	458	55.137	33.244	19.000	0.00	0.00
ATOM	6915	CB	SER	X	458	54.262	34.649	20.474	0.00	0.00
ATOM	6916	HB2	SER	X	458	55.174	35.247	20.461	0.00	0.00
ATOM	6917	HB3	SER	X	458	53.464	35.028	19.836	0.00	0.00
ATOM	6918	OG	SER	X	458	53.814	34.622	21.818	0.00	0.00
ATOM	6919	HG	SER	X	458	52.860	34.544	21.744	0.00	0.00
ATOM	6920	C	SER	X	458	55.819	32.677	20.845	0.00	0.00
ATOM	6921	O	SER	X	458	57.051	32.992	20.610	0.00	0.00
ATOM	6922	N	ARG	X	459	55.514	31.611	21.663	0.00	0.00
ATOM	6923	H	ARG	X	459	54.591	31.262	21.448	0.00	0.00
ATOM	6924	CA	ARG	X	459	56.393	30.951	22.656	0.00	0.00
ATOM	6925	HA	ARG	X	459	57.390	30.888	22.220	0.00	0.00
ATOM	6926	CB	ARG	X	459	56.429	31.790	24.019	0.00	0.00
ATOM	6927	HB2	ARG	X	459	57.149	31.258	24.641	0.00	0.00
ATOM	6928	HB3	ARG	X	459	56.907	32.744	23.800	0.00	0.00
ATOM	6929	CG	ARG	X	459	55.087	32.006	24.842	0.00	0.00
ATOM	6930	HG2	ARG	X	459	54.426	32.718	24.348	0.00	0.00
ATOM	6931	HG3	ARG	X	459	54.563	31.060	24.981	0.00	0.00
ATOM	6932	CD	ARG	X	459	55.318	32.562	26.225	0.00	0.00
ATOM	6933	HD2	ARG	X	459	56.073	31.995	26.769	0.00	0.00
ATOM	6934	HD3	ARG	X	459	55.685	33.574	26.053	0.00	0.00
ATOM	6935	NE	ARG	X	459	54.092	32.761	27.051	0.00	0.00
ATOM	6936	HE	ARG	X	459	53.271	32.903	26.480	0.00	0.00
ATOM	6937	CZ	ARG	X	459	54.021	32.816	28.376	0.00	0.00
ATOM	6938	NH1	ARG	X	459	54.998	32.419	29.161	0.00	0.00
ATOM	6939	HH11	ARG	X	459	55.939	32.527	28.810	0.00	0.00

ATOM	6940	HH12	ARG	X	459	54.763	32.408	30.143	0.00	0.00
ATOM	6941	NH2	ARG	X	459	52.856	33.128	28.944	0.00	0.00
ATOM	6942	HH21	ARG	X	459	52.092	33.623	28.505	0.00	0.00
ATOM	6943	HH22	ARG	X	459	52.729	32.934	29.927	0.00	0.00
ATOM	6944	C	ARG	X	459	55.783	29.555	22.824	0.00	0.00
ATOM	6945	O	ARG	X	459	54.579	29.326	22.610	0.00	0.00
ATOM	6946	N	ASN	X	460	56.644	28.506	23.129	0.00	0.00
ATOM	6947	H	ASN	X	460	57.509	28.779	23.573	0.00	0.00
ATOM	6948	CA	ASN	X	460	56.224	27.114	23.068	0.00	0.00
ATOM	6949	HA	ASN	X	460	55.334	27.058	22.442	0.00	0.00
ATOM	6950	CB	ASN	X	460	57.283	26.271	22.369	0.00	0.00
ATOM	6951	HB2	ASN	X	460	57.588	26.869	21.511	0.00	0.00
ATOM	6952	HB3	ASN	X	460	58.105	26.201	23.081	0.00	0.00
ATOM	6953	CG	ASN	X	460	56.767	24.901	21.946	0.00	0.00
ATOM	6954	OD1	ASN	X	460	56.452	24.082	22.812	0.00	0.00
ATOM	6955	ND2	ASN	X	460	56.419	24.755	20.692	0.00	0.00
ATOM	6956	HD21	ASN	X	460	55.834	23.960	20.479	0.00	0.00
ATOM	6957	HD22	ASN	X	460	56.791	25.366	19.979	0.00	0.00
ATOM	6958	C	ASN	X	460	55.850	26.646	24.495	0.00	0.00
ATOM	6959	O	ASN	X	460	56.679	26.211	25.232	0.00	0.00
ATOM	6960	N	TYR	X	461	54.591	26.754	24.944	0.00	0.00
ATOM	6961	H	TYR	X	461	53.892	27.156	24.335	0.00	0.00
ATOM	6962	CA	TYR	X	461	53.967	25.723	25.808	0.00	0.00
ATOM	6963	HA	TYR	X	461	54.670	25.578	26.629	0.00	0.00
ATOM	6964	CB	TYR	X	461	52.623	26.185	26.286	0.00	0.00
ATOM	6965	HB2	TYR	X	461	51.963	26.290	25.424	0.00	0.00
ATOM	6966	HB3	TYR	X	461	52.115	25.412	26.862	0.00	0.00
ATOM	6967	CG	TYR	X	461	52.544	27.321	27.277	0.00	0.00
ATOM	6968	CD1	TYR	X	461	52.728	28.608	26.851	0.00	0.00
ATOM	6969	HD1	TYR	X	461	52.811	28.781	25.788	0.00	0.00
ATOM	6970	CE1	TYR	X	461	52.523	29.692	27.771	0.00	0.00
ATOM	6971	HE1	TYR	X	461	52.554	30.715	27.424	0.00	0.00
ATOM	6972	CZ	TYR	X	461	52.175	29.437	29.099	0.00	0.00
ATOM	6973	OH	TYR	X	461	51.880	30.522	29.848	0.00	0.00
ATOM	6974	HH	TYR	X	461	51.649	30.341	30.762	0.00	0.00
ATOM	6975	CE2	TYR	X	461	52.066	28.100	29.553	0.00	0.00
ATOM	6976	HE2	TYR	X	461	51.803	27.888	30.579	0.00	0.00
ATOM	6977	CD2	TYR	X	461	52.282	27.093	28.643	0.00	0.00
ATOM	6978	HD2	TYR	X	461	52.271	26.049	28.919	0.00	0.00
ATOM	6979	C	TYR	X	461	53.863	24.446	24.996	0.00	0.00
ATOM	6980	O	TYR	X	461	53.742	24.419	23.749	0.00	0.00
ATOM	6981	N	THR	X	462	53.832	23.288	25.669	0.00	0.00
ATOM	6982	H	THR	X	462	53.695	23.403	26.663	0.00	0.00
ATOM	6983	CA	THR	X	462	53.672	22.003	25.028	0.00	0.00
ATOM	6984	HA	THR	X	462	54.311	21.881	24.154	0.00	0.00
ATOM	6985	CB	THR	X	462	53.934	20.835	25.975	0.00	0.00
ATOM	6986	HB	THR	X	462	53.679	19.912	25.455	0.00	0.00
ATOM	6987	CG2	THR	X	462	55.412	20.726	26.332	0.00	0.00
ATOM	6988	HG21	THR	X	462	55.780	21.344	27.150	0.00	0.00
ATOM	6989	HG22	THR	X	462	56.009	21.031	25.473	0.00	0.00
ATOM	6990	HG23	THR	X	462	55.640	19.662	26.394	0.00	0.00
ATOM	6991	OG1	THR	X	462	53.214	20.955	27.200	0.00	0.00
ATOM	6992	HG1	THR	X	462	53.478	21.801	27.570	0.00	0.00
ATOM	6993	C	THR	X	462	52.196	21.840	24.519	0.00	0.00
ATOM	6994	O	THR	X	462	51.319	22.701	24.731	0.00	0.00
ATOM	6995	N	ALA	X	463	51.897	20.779	23.835	0.00	0.00
ATOM	6996	H	ALA	X	463	52.681	20.232	23.511	0.00	0.00
ATOM	6997	CA	ALA	X	463	50.537	20.345	23.534	0.00	0.00
ATOM	6998	HA	ALA	X	463	50.050	21.169	23.012	0.00	0.00
ATOM	6999	CB	ALA	X	463	50.716	19.170	22.569	0.00	0.00
ATOM	7000	HB1	ALA	X	463	51.389	19.360	21.734	0.00	0.00
ATOM	7001	HB2	ALA	X	463	49.771	19.034	22.043	0.00	0.00
ATOM	7002	HB3	ALA	X	463	51.049	18.242	23.034	0.00	0.00
ATOM	7003	C	ALA	X	463	49.699	19.907	24.664	0.00	0.00
ATOM	7004	O	ALA	X	463	48.456	19.984	24.699	0.00	0.00
ATOM	7005	N	GLU	X	464	50.380	19.335	25.707	0.00	0.00
ATOM	7006	H	GLU	X	464	51.380	19.224	25.620	0.00	0.00

ATOM	7007	CA	GLU	X	464	49.775	18.838	26.926	0.00	0.00
ATOM	7008	HA	GLU	X	464	48.939	18.188	26.667	0.00	0.00
ATOM	7009	CB	GLU	X	464	50.888	18.054	27.696	0.00	0.00
ATOM	7010	HB2	GLU	X	464	51.411	17.365	27.033	0.00	0.00
ATOM	7011	HB3	GLU	X	464	51.579	18.744	28.181	0.00	0.00
ATOM	7012	CG	GLU	X	464	50.359	17.097	28.676	0.00	0.00
ATOM	7013	HG2	GLU	X	464	51.181	16.458	28.997	0.00	0.00
ATOM	7014	HG3	GLU	X	464	49.891	17.661	29.483	0.00	0.00
ATOM	7015	CD	GLU	X	464	49.321	16.156	28.088	0.00	0.00
ATOM	7016	OE1	GLU	X	464	48.164	16.118	28.581	0.00	0.00
ATOM	7017	OE2	GLU	X	464	49.704	15.428	27.163	0.00	0.00
ATOM	7018	C	GLU	X	464	49.128	20.068	27.682	0.00	0.00
ATOM	7019	O	GLU	X	464	47.966	19.916	28.156	0.00	0.00
ATOM	7020	N	GLU	X	465	49.727	21.200	27.630	0.00	0.00
ATOM	7021	H	GLU	X	465	50.565	21.261	27.069	0.00	0.00
ATOM	7022	CA	GLU	X	465	49.264	22.489	28.180	0.00	0.00
ATOM	7023	HA	GLU	X	465	48.893	22.103	29.129	0.00	0.00
ATOM	7024	CB	GLU	X	465	50.493	23.364	28.387	0.00	0.00
ATOM	7025	HB2	GLU	X	465	50.967	23.443	27.409	0.00	0.00
ATOM	7026	HB3	GLU	X	465	50.264	24.369	28.743	0.00	0.00
ATOM	7027	CG	GLU	X	465	51.349	22.731	29.569	0.00	0.00
ATOM	7028	HG2	GLU	X	465	50.872	22.850	30.541	0.00	0.00
ATOM	7029	HG3	GLU	X	465	51.629	21.690	29.403	0.00	0.00
ATOM	7030	CD	GLU	X	465	52.809	23.285	29.534	0.00	0.00
ATOM	7031	OE1	GLU	X	465	53.388	23.243	28.438	0.00	0.00
ATOM	7032	OE2	GLU	X	465	53.399	23.714	30.571	0.00	0.00
ATOM	7033	C	GLU	X	465	48.214	23.186	27.317	0.00	0.00
ATOM	7034	O	GLU	X	465	47.175	23.671	27.794	0.00	0.00
ATOM	7035	N	LYS	X	466	48.293	23.097	25.959	0.00	0.00
ATOM	7036	H	LYS	X	466	49.117	22.641	25.595	0.00	0.00
ATOM	7037	CA	LYS	X	466	47.096	23.542	25.196	0.00	0.00
ATOM	7038	HA	LYS	X	466	46.802	24.575	25.382	0.00	0.00
ATOM	7039	CB	LYS	X	466	47.427	23.499	23.720	0.00	0.00
ATOM	7040	HB2	LYS	X	466	47.986	22.595	23.481	0.00	0.00
ATOM	7041	HB3	LYS	X	466	46.527	23.570	23.109	0.00	0.00
ATOM	7042	CG	LYS	X	466	48.287	24.656	23.281	0.00	0.00
ATOM	7043	HG2	LYS	X	466	47.786	25.585	23.555	0.00	0.00
ATOM	7044	HG3	LYS	X	466	49.126	24.800	23.962	0.00	0.00
ATOM	7045	CD	LYS	X	466	48.661	24.530	21.784	0.00	0.00
ATOM	7046	HD2	LYS	X	466	48.935	23.523	21.471	0.00	0.00
ATOM	7047	HD3	LYS	X	466	47.829	24.739	21.113	0.00	0.00
ATOM	7048	CE	LYS	X	466	49.743	25.565	21.430	0.00	0.00
ATOM	7049	HE2	LYS	X	466	49.954	25.645	20.364	0.00	0.00
ATOM	7050	HE3	LYS	X	466	49.290	26.506	21.741	0.00	0.00
ATOM	7051	NZ	LYS	X	466	51.011	25.299	22.079	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	50.912	25.394	23.080	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	51.283	24.398	21.712	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	51.676	26.003	21.792	0.00	0.00
ATOM	7055	C	LYS	X	466	45.833	22.801	25.530	0.00	0.00
ATOM	7056	O	LYS	X	466	44.871	23.496	25.830	0.00	0.00
ATOM	7057	N	ILE	X	467	45.768	21.466	25.618	0.00	0.00
ATOM	7058	H	ILE	X	467	46.636	20.950	25.591	0.00	0.00
ATOM	7059	CA	ILE	X	467	44.433	20.729	25.929	0.00	0.00
ATOM	7060	HA	ILE	X	467	43.707	21.209	25.273	0.00	0.00
ATOM	7061	CB	ILE	X	467	44.455	19.209	25.527	0.00	0.00
ATOM	7062	HB	ILE	X	467	44.861	19.064	24.526	0.00	0.00
ATOM	7063	CG2	ILE	X	467	45.467	18.383	26.360	0.00	0.00
ATOM	7064	HG21	ILE	X	467	46.352	18.997	26.531	0.00	0.00
ATOM	7065	HG22	ILE	X	467	45.777	17.459	25.873	0.00	0.00
ATOM	7066	HG23	ILE	X	467	44.966	18.097	27.285	0.00	0.00
ATOM	7067	CG1	ILE	X	467	43.008	18.596	25.520	0.00	0.00
ATOM	7068	HG12	ILE	X	467	43.039	17.514	25.393	0.00	0.00
ATOM	7069	HG13	ILE	X	467	42.622	18.705	26.534	0.00	0.00
ATOM	7070	CD1	ILE	X	467	41.980	19.227	24.532	0.00	0.00
ATOM	7071	HD11	ILE	X	467	41.637	20.154	24.993	0.00	0.00
ATOM	7072	HD12	ILE	X	467	41.141	18.571	24.304	0.00	0.00
ATOM	7073	HD13	ILE	X	467	42.590	19.410	23.647	0.00	0.00

ATOM	7074	C	ILE	X	467	44.000	20.978	27.374	0.00	0.00
ATOM	7075	O	ILE	X	467	42.801	21.100	27.569	0.00	0.00
ATOM	7076	N	PHE	X	468	44.929	21.161	28.327	0.00	0.00
ATOM	7077	H	PHE	X	468	45.863	20.858	28.092	0.00	0.00
ATOM	7078	CA	PHE	X	468	44.682	21.633	29.689	0.00	0.00
ATOM	7079	HA	PHE	X	468	43.941	20.972	30.140	0.00	0.00
ATOM	7080	CB	PHE	X	468	45.997	21.549	30.570	0.00	0.00
ATOM	7081	HB2	PHE	X	468	46.339	20.516	30.629	0.00	0.00
ATOM	7082	HB3	PHE	X	468	46.804	22.013	30.004	0.00	0.00
ATOM	7083	CG	PHE	X	468	46.004	22.038	31.966	0.00	0.00
ATOM	7084	CD1	PHE	X	468	44.921	21.673	32.892	0.00	0.00
ATOM	7085	HD1	PHE	X	468	44.064	21.228	32.407	0.00	0.00
ATOM	7086	CE1	PHE	X	468	44.980	22.053	34.222	0.00	0.00
ATOM	7087	HE1	PHE	X	468	44.274	21.805	35.001	0.00	0.00
ATOM	7088	CZ	PHE	X	468	46.089	22.695	34.682	0.00	0.00
ATOM	7089	HZ	PHE	X	468	46.056	22.936	35.734	0.00	0.00
ATOM	7090	CE2	PHE	X	468	47.236	23.005	33.870	0.00	0.00
ATOM	7091	HE2	PHE	X	468	48.191	23.327	34.259	0.00	0.00
ATOM	7092	CD2	PHE	X	468	47.184	22.717	32.472	0.00	0.00
ATOM	7093	HD2	PHE	X	468	48.047	22.913	31.853	0.00	0.00
ATOM	7094	C	PHE	X	468	44.086	23.076	29.583	0.00	0.00
ATOM	7095	O	PHE	X	468	43.101	23.355	30.299	0.00	0.00
ATOM	7096	N	ALA	X	469	44.574	24.027	28.774	0.00	0.00
ATOM	7097	H	ALA	X	469	45.455	23.892	28.299	0.00	0.00
ATOM	7098	CA	ALA	X	469	43.889	25.344	28.634	0.00	0.00
ATOM	7099	HA	ALA	X	469	43.790	25.915	29.557	0.00	0.00
ATOM	7100	CB	ALA	X	469	44.641	26.252	27.621	0.00	0.00
ATOM	7101	HB1	ALA	X	469	44.140	27.220	27.631	0.00	0.00
ATOM	7102	HB2	ALA	X	469	44.675	25.795	26.632	0.00	0.00
ATOM	7103	HB3	ALA	X	469	45.693	26.274	27.905	0.00	0.00
ATOM	7104	C	ALA	X	469	42.480	25.151	28.133	0.00	0.00
ATOM	7105	O	ALA	X	469	41.578	25.840	28.700	0.00	0.00
ATOM	7106	N	GLN	X	470	42.126	24.138	27.315	0.00	0.00
ATOM	7107	H	GLN	X	470	42.850	23.604	26.857	0.00	0.00
ATOM	7108	CA	GLN	X	470	40.744	23.907	26.946	0.00	0.00
ATOM	7109	HA	GLN	X	470	40.329	24.909	26.836	0.00	0.00
ATOM	7110	CB	GLN	X	470	40.606	23.090	25.700	0.00	0.00
ATOM	7111	HB2	GLN	X	470	41.001	22.089	25.877	0.00	0.00
ATOM	7112	HB3	GLN	X	470	39.550	22.834	25.614	0.00	0.00
ATOM	7113	CG	GLN	X	470	41.252	23.690	24.503	0.00	0.00
ATOM	7114	HG2	GLN	X	470	40.912	24.705	24.295	0.00	0.00
ATOM	7115	HG3	GLN	X	470	42.325	23.578	24.657	0.00	0.00
ATOM	7116	CD	GLN	X	470	40.731	22.880	23.256	0.00	0.00
ATOM	7117	OE1	GLN	X	470	41.371	22.033	22.687	0.00	0.00
ATOM	7118	NE2	GLN	X	470	39.575	23.326	22.773	0.00	0.00
ATOM	7119	HE21	GLN	X	470	39.236	22.885	21.930	0.00	0.00
ATOM	7120	HE22	GLN	X	470	39.168	24.159	23.174	0.00	0.00
ATOM	7121	C	GLN	X	470	39.896	23.378	28.073	0.00	0.00
ATOM	7122	O	GLN	X	470	38.724	23.784	28.067	0.00	0.00
ATOM	7123	N	ARG	X	471	40.412	22.695	29.036	0.00	0.00
ATOM	7124	H	ARG	X	471	41.371	22.420	28.878	0.00	0.00
ATOM	7125	CA	ARG	X	471	39.710	22.328	30.242	0.00	0.00
ATOM	7126	HA	ARG	X	471	38.722	21.922	30.025	0.00	0.00
ATOM	7127	CB	ARG	X	471	40.481	21.245	31.035	0.00	0.00
ATOM	7128	HB2	ARG	X	471	41.502	21.559	31.252	0.00	0.00
ATOM	7129	HB3	ARG	X	471	39.899	20.962	31.912	0.00	0.00
ATOM	7130	CG	ARG	X	471	40.761	20.007	30.214	0.00	0.00
ATOM	7131	HG2	ARG	X	471	39.786	19.532	30.100	0.00	0.00
ATOM	7132	HG3	ARG	X	471	41.170	20.295	29.246	0.00	0.00
ATOM	7133	CD	ARG	X	471	41.677	18.989	30.922	0.00	0.00
ATOM	7134	HD2	ARG	X	471	41.720	18.060	30.354	0.00	0.00
ATOM	7135	HD3	ARG	X	471	42.686	19.394	31.008	0.00	0.00
ATOM	7136	NE	ARG	X	471	41.120	18.694	32.294	0.00	0.00
ATOM	7137	HE	ARG	X	471	40.120	18.764	32.416	0.00	0.00
ATOM	7138	CZ	ARG	X	471	41.814	18.451	33.435	0.00	0.00
ATOM	7139	NH1	ARG	X	471	43.119	18.268	33.471	0.00	0.00
ATOM	7140	HH11	ARG	X	471	43.683	18.346	32.638	0.00	0.00

ATOM	7141	HH12	ARG	X	471	43.542	17.792	34.255	0.00	0.00
ATOM	7142	NH2	ARG	X	471	41.236	18.172	34.559	0.00	0.00
ATOM	7143	HH21	ARG	X	471	40.230	18.128	34.638	0.00	0.00
ATOM	7144	HH22	ARG	X	471	41.822	17.985	35.360	0.00	0.00
ATOM	7145	C	ARG	X	471	39.433	23.459	31.177	0.00	0.00
ATOM	7146	O	ARG	X	471	38.239	23.586	31.501	0.00	0.00
ATOM	7147	N	LEU	X	472	40.387	24.354	31.401	0.00	0.00
ATOM	7148	H	LEU	X	472	41.292	24.248	30.964	0.00	0.00
ATOM	7149	CA	LEU	X	472	40.257	25.419	32.430	0.00	0.00
ATOM	7150	HA	LEU	X	472	39.656	24.933	33.199	0.00	0.00
ATOM	7151	CB	LEU	X	472	41.567	25.959	32.992	0.00	0.00
ATOM	7152	HB2	LEU	X	472	42.369	25.710	32.297	0.00	0.00
ATOM	7153	HB3	LEU	X	472	41.545	27.041	33.123	0.00	0.00
ATOM	7154	CG	LEU	X	472	41.883	25.308	34.383	0.00	0.00
ATOM	7155	HG	LEU	X	472	41.137	25.577	35.132	0.00	0.00
ATOM	7156	CD1	LEU	X	472	41.979	23.791	34.225	0.00	0.00
ATOM	7157	HD11	LEU	X	472	42.660	23.610	33.394	0.00	0.00
ATOM	7158	HD12	LEU	X	472	41.046	23.248	34.078	0.00	0.00
ATOM	7159	HD13	LEU	X	472	42.402	23.361	35.133	0.00	0.00
ATOM	7160	CD2	LEU	X	472	43.300	25.734	34.927	0.00	0.00
ATOM	7161	HD21	LEU	X	472	44.075	25.604	34.172	0.00	0.00
ATOM	7162	HD22	LEU	X	472	43.405	26.815	35.009	0.00	0.00
ATOM	7163	HD23	LEU	X	472	43.622	25.187	35.812	0.00	0.00
ATOM	7164	C	LEU	X	472	39.385	26.500	31.865	0.00	0.00
ATOM	7165	O	LEU	X	472	38.535	27.012	32.654	0.00	0.00
ATOM	7166	N	MET	X	473	39.554	26.895	30.590	0.00	0.00
ATOM	7167	H	MET	X	473	40.209	26.471	29.949	0.00	0.00
ATOM	7168	CA	MET	X	473	38.520	27.752	29.953	0.00	0.00
ATOM	7169	HA	MET	X	473	38.503	28.726	30.442	0.00	0.00
ATOM	7170	CB	MET	X	473	38.872	27.901	28.429	0.00	0.00
ATOM	7171	HB2	MET	X	473	38.892	26.962	27.876	0.00	0.00
ATOM	7172	HB3	MET	X	473	38.019	28.458	28.041	0.00	0.00
ATOM	7173	CG	MET	X	473	40.229	28.721	28.289	0.00	0.00
ATOM	7174	HG2	MET	X	473	40.357	29.296	29.206	0.00	0.00
ATOM	7175	HG3	MET	X	473	41.066	28.034	28.415	0.00	0.00
ATOM	7176	SD	MET	X	473	40.601	29.721	26.888	0.00	0.00
ATOM	7177	CE	MET	X	473	40.150	28.699	25.412	0.00	0.00
ATOM	7178	HE1	MET	X	473	40.056	27.654	25.709	0.00	0.00
ATOM	7179	HE2	MET	X	473	39.131	28.919	25.094	0.00	0.00
ATOM	7180	HE3	MET	X	473	40.880	28.786	24.607	0.00	0.00
ATOM	7181	C	MET	X	473	37.080	27.215	30.119	0.00	0.00
ATOM	7182	O	MET	X	473	36.134	27.925	30.325	0.00	0.00
ATOM	7183	N	ARG	X	474	36.938	25.897	29.841	0.00	0.00
ATOM	7184	H	ARG	X	474	37.739	25.347	29.562	0.00	0.00
ATOM	7185	CA	ARG	X	474	35.649	25.239	29.841	0.00	0.00
ATOM	7186	HA	ARG	X	474	35.022	25.823	29.167	0.00	0.00
ATOM	7187	CB	ARG	X	474	35.855	23.930	29.177	0.00	0.00
ATOM	7188	HB2	ARG	X	474	36.142	24.164	28.152	0.00	0.00
ATOM	7189	HB3	ARG	X	474	36.654	23.377	29.671	0.00	0.00
ATOM	7190	CG	ARG	X	474	34.604	23.059	29.061	0.00	0.00
ATOM	7191	HG2	ARG	X	474	34.936	22.125	28.609	0.00	0.00
ATOM	7192	HG3	ARG	X	474	34.171	22.853	30.040	0.00	0.00
ATOM	7193	CD	ARG	X	474	33.577	23.654	28.125	0.00	0.00
ATOM	7194	HD2	ARG	X	474	33.101	24.516	28.593	0.00	0.00
ATOM	7195	HD3	ARG	X	474	34.097	23.895	27.197	0.00	0.00
ATOM	7196	NE	ARG	X	474	32.495	22.791	27.861	0.00	0.00
ATOM	7197	HE	ARG	X	474	32.394	21.911	28.347	0.00	0.00
ATOM	7198	CZ	ARG	X	474	31.424	23.100	27.192	0.00	0.00
ATOM	7199	NH1	ARG	X	474	31.381	24.212	26.395	0.00	0.00
ATOM	7200	HH11	ARG	X	474	32.255	24.703	26.274	0.00	0.00
ATOM	7201	HH12	ARG	X	474	30.541	24.506	25.917	0.00	0.00
ATOM	7202	NH2	ARG	X	474	30.388	22.280	27.316	0.00	0.00
ATOM	7203	HH21	ARG	X	474	30.532	21.450	27.874	0.00	0.00
ATOM	7204	HH22	ARG	X	474	29.537	22.390	26.784	0.00	0.00
ATOM	7205	C	ARG	X	474	35.098	25.293	31.244	0.00	0.00
ATOM	7206	O	ARG	X	474	33.945	25.608	31.367	0.00	0.00
ATOM	7207	N	TYR	X	475	35.836	24.800	32.264	0.00	0.00

ATOM	7208	H	TYR	X	475	36.809	24.567	32.125	0.00	0.00
ATOM	7209	CA	TYR	X	475	35.468	24.866	33.654	0.00	0.00
ATOM	7210	HA	TYR	X	475	34.627	24.180	33.750	0.00	0.00
ATOM	7211	CB	TYR	X	475	36.690	24.283	34.343	0.00	0.00
ATOM	7212	HB2	TYR	X	475	37.574	24.868	34.090	0.00	0.00
ATOM	7213	HB3	TYR	X	475	36.513	24.302	35.419	0.00	0.00
ATOM	7214	CG	TYR	X	475	37.122	22.831	34.036	0.00	0.00
ATOM	7215	CD1	TYR	X	475	36.329	21.815	33.373	0.00	0.00
ATOM	7216	HD1	TYR	X	475	35.430	22.090	32.841	0.00	0.00
ATOM	7217	CE1	TYR	X	475	36.696	20.492	33.244	0.00	0.00
ATOM	7218	HE1	TYR	X	475	35.988	19.881	32.703	0.00	0.00
ATOM	7219	CZ	TYR	X	475	37.873	20.055	33.960	0.00	0.00
ATOM	7220	OH	TYR	X	475	38.192	18.696	34.083	0.00	0.00
ATOM	7221	HH	TYR	X	475	37.534	18.123	33.684	0.00	0.00
ATOM	7222	CE2	TYR	X	475	38.640	20.976	34.622	0.00	0.00
ATOM	7223	HE2	TYR	X	475	39.461	20.606	35.218	0.00	0.00
ATOM	7224	CD2	TYR	X	475	38.331	22.364	34.605	0.00	0.00
ATOM	7225	HD2	TYR	X	475	38.978	23.091	35.074	0.00	0.00
ATOM	7226	C	TYR	X	475	35.037	26.307	34.127	0.00	0.00
ATOM	7227	O	TYR	X	475	33.947	26.568	34.668	0.00	0.00
ATOM	7228	N	TRP	X	476	35.824	27.316	33.747	0.00	0.00
ATOM	7229	H	TRP	X	476	36.647	27.157	33.184	0.00	0.00
ATOM	7230	CA	TRP	X	476	35.453	28.709	34.081	0.00	0.00
ATOM	7231	HA	TRP	X	476	35.207	28.725	35.143	0.00	0.00
ATOM	7232	CB	TRP	X	476	36.603	29.650	33.968	0.00	0.00
ATOM	7233	HB2	TRP	X	476	37.310	29.368	33.188	0.00	0.00
ATOM	7234	HB3	TRP	X	476	36.330	30.605	33.519	0.00	0.00
ATOM	7235	CG	TRP	X	476	37.344	29.884	35.225	0.00	0.00
ATOM	7236	CD1	TRP	X	476	37.383	31.056	35.865	0.00	0.00
ATOM	7237	HD1	TRP	X	476	36.961	31.931	35.394	0.00	0.00
ATOM	7238	NE1	TRP	X	476	38.315	31.009	36.963	0.00	0.00
ATOM	7239	HE1	TRP	X	476	38.696	31.763	37.517	0.00	0.00
ATOM	7240	CE2	TRP	X	476	38.789	29.741	37.086	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	39.667	29.190	38.056	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	40.048	29.770	38.883	0.00	0.00
ATOM	7243	CH2	TRP	X	476	39.971	27.857	37.971	0.00	0.00
ATOM	7244	HH2	TRP	X	476	40.612	27.425	38.725	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	39.434	27.052	36.929	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	39.598	25.985	36.949	0.00	0.00
ATOM	7247	CE3	TRP	X	476	38.482	27.615	36.065	0.00	0.00
ATOM	7248	HE3	TRP	X	476	38.027	27.023	35.284	0.00	0.00
ATOM	7249	CD2	TRP	X	476	38.190	28.967	36.033	0.00	0.00
ATOM	7250	C	TRP	X	476	34.276	29.319	33.347	0.00	0.00
ATOM	7251	O	TRP	X	476	33.447	29.941	33.951	0.00	0.00
ATOM	7252	N	ALA	X	477	34.210	28.997	32.028	0.00	0.00
ATOM	7253	H	ALA	X	477	34.964	28.581	31.502	0.00	0.00
ATOM	7254	CA	ALA	X	477	32.975	29.330	31.322	0.00	0.00
ATOM	7255	HA	ALA	X	477	32.705	30.355	31.578	0.00	0.00
ATOM	7256	CB	ALA	X	477	33.174	29.021	29.800	0.00	0.00
ATOM	7257	HB1	ALA	X	477	32.267	28.937	29.201	0.00	0.00
ATOM	7258	HB2	ALA	X	477	33.595	28.016	29.770	0.00	0.00
ATOM	7259	HB3	ALA	X	477	33.893	29.679	29.311	0.00	0.00
ATOM	7260	C	ALA	X	477	31.794	28.500	31.783	0.00	0.00
ATOM	7261	O	ALA	X	477	30.756	29.058	32.111	0.00	0.00
ATOM	7262	N	ASN	X	478	31.820	27.183	32.080	0.00	0.00
ATOM	7263	H	ASN	X	478	32.665	26.655	31.919	0.00	0.00
ATOM	7264	CA	ASN	X	478	30.710	26.364	32.636	0.00	0.00
ATOM	7265	HA	ASN	X	478	29.910	26.344	31.896	0.00	0.00
ATOM	7266	CB	ASN	X	478	31.233	24.960	32.757	0.00	0.00
ATOM	7267	HB2	ASN	X	478	32.275	25.041	33.067	0.00	0.00
ATOM	7268	HB3	ASN	X	478	30.630	24.393	33.467	0.00	0.00
ATOM	7269	CG	ASN	X	478	31.216	24.115	31.526	0.00	0.00
ATOM	7270	OD1	ASN	X	478	30.785	24.476	30.475	0.00	0.00
ATOM	7271	ND2	ASN	X	478	31.625	22.882	31.641	0.00	0.00
ATOM	7272	HD21	ASN	X	478	31.659	22.153	30.944	0.00	0.00
ATOM	7273	HD22	ASN	X	478	32.011	22.589	32.527	0.00	0.00
ATOM	7274	C	ASN	X	478	30.177	26.970	33.975	0.00	0.00

ATOM	7275	O	ASN	X	478	28.988	26.942	34.141	0.00	0.00
ATOM	7276	N	PHE	X	479	31.078	27.378	34.861	0.00	0.00
ATOM	7277	H	PHE	X	479	32.033	27.338	34.534	0.00	0.00
ATOM	7278	CA	PHE	X	479	30.686	28.126	36.101	0.00	0.00
ATOM	7279	HA	PHE	X	479	29.979	27.429	36.551	0.00	0.00
ATOM	7280	CB	PHE	X	479	31.954	28.234	37.051	0.00	0.00
ATOM	7281	HB2	PHE	X	479	31.968	27.235	37.485	0.00	0.00
ATOM	7282	HB3	PHE	X	479	32.838	28.584	36.517	0.00	0.00
ATOM	7283	CG	PHE	X	479	31.685	29.201	38.199	0.00	0.00
ATOM	7284	CD1	PHE	X	479	31.203	28.624	39.392	0.00	0.00
ATOM	7285	HD1	PHE	X	479	30.930	27.579	39.389	0.00	0.00
ATOM	7286	CE1	PHE	X	479	30.966	29.571	40.398	0.00	0.00
ATOM	7287	HE1	PHE	X	479	30.516	29.048	41.228	0.00	0.00
ATOM	7288	CZ	PHE	X	479	31.140	30.950	40.335	0.00	0.00
ATOM	7289	HZ	PHE	X	479	30.933	31.566	41.197	0.00	0.00
ATOM	7290	CE2	PHE	X	479	31.423	31.463	39.070	0.00	0.00
ATOM	7291	HE2	PHE	X	479	31.473	32.529	38.902	0.00	0.00
ATOM	7292	CD2	PHE	X	479	31.715	30.590	38.029	0.00	0.00
ATOM	7293	HD2	PHE	X	479	32.068	30.904	37.058	0.00	0.00
ATOM	7294	C	PHE	X	479	29.994	29.396	35.777	0.00	0.00
ATOM	7295	O	PHE	X	479	29.003	29.769	36.430	0.00	0.00
ATOM	7296	N	ALA	X	480	30.457	30.174	34.730	0.00	0.00
ATOM	7297	H	ALA	X	480	31.154	29.741	34.142	0.00	0.00
ATOM	7298	CA	ALA	X	480	29.774	31.388	34.354	0.00	0.00
ATOM	7299	HA	ALA	X	480	29.704	31.986	35.263	0.00	0.00
ATOM	7300	CB	ALA	X	480	30.622	32.134	33.335	0.00	0.00
ATOM	7301	HB1	ALA	X	480	31.683	32.114	33.583	0.00	0.00
ATOM	7302	HB2	ALA	X	480	30.305	33.177	33.329	0.00	0.00
ATOM	7303	HB3	ALA	X	480	30.558	31.698	32.337	0.00	0.00
ATOM	7304	C	ALA	X	480	28.386	31.093	33.777	0.00	0.00
ATOM	7305	O	ALA	X	480	27.365	31.744	34.127	0.00	0.00
ATOM	7306	N	ARG	X	481	28.256	30.067	32.975	0.00	0.00
ATOM	7307	H	ARG	X	481	29.080	29.618	32.603	0.00	0.00
ATOM	7308	CA	ARG	X	481	27.015	29.590	32.396	0.00	0.00
ATOM	7309	HA	ARG	X	481	26.467	30.314	31.793	0.00	0.00
ATOM	7310	CB	ARG	X	481	27.302	28.364	31.410	0.00	0.00
ATOM	7311	HB2	ARG	X	481	27.804	27.576	31.971	0.00	0.00
ATOM	7312	HB3	ARG	X	481	26.305	28.004	31.155	0.00	0.00
ATOM	7313	CG	ARG	X	481	28.029	28.789	30.091	0.00	0.00
ATOM	7314	HG2	ARG	X	481	27.356	29.379	29.470	0.00	0.00
ATOM	7315	HG3	ARG	X	481	28.963	29.342	30.184	0.00	0.00
ATOM	7316	CD	ARG	X	481	28.361	27.509	29.329	0.00	0.00
ATOM	7317	HD2	ARG	X	481	28.817	26.724	29.933	0.00	0.00
ATOM	7318	HD3	ARG	X	481	27.394	27.137	28.992	0.00	0.00
ATOM	7319	NE	ARG	X	481	29.071	27.711	28.087	0.00	0.00
ATOM	7320	HE	ARG	X	481	28.530	28.183	27.377	0.00	0.00
ATOM	7321	CZ	ARG	X	481	30.368	27.386	27.850	0.00	0.00
ATOM	7322	NH1	ARG	X	481	31.044	26.589	28.640	0.00	0.00
ATOM	7323	HH11	ARG	X	481	30.602	25.917	29.252	0.00	0.00
ATOM	7324	HH12	ARG	X	481	32.030	26.405	28.523	0.00	0.00
ATOM	7325	NH2	ARG	X	481	30.954	27.779	26.727	0.00	0.00
ATOM	7326	HH21	ARG	X	481	30.586	28.556	26.197	0.00	0.00
ATOM	7327	HH22	ARG	X	481	31.923	27.511	26.635	0.00	0.00
ATOM	7328	C	ARG	X	481	25.981	29.041	33.428	0.00	0.00
ATOM	7329	O	ARG	X	481	24.791	29.332	33.270	0.00	0.00
ATOM	7330	N	THR	X	482	26.376	28.284	34.436	0.00	0.00
ATOM	7331	H	THR	X	482	27.367	28.296	34.627	0.00	0.00
ATOM	7332	CA	THR	X	482	25.463	27.455	35.319	0.00	0.00
ATOM	7333	HA	THR	X	482	24.438	27.752	35.095	0.00	0.00
ATOM	7334	CB	THR	X	482	25.703	26.042	35.042	0.00	0.00
ATOM	7335	HB	THR	X	482	26.617	25.801	35.586	0.00	0.00
ATOM	7336	CG2	THR	X	482	24.570	25.099	35.489	0.00	0.00
ATOM	7337	HG21	THR	X	482	24.892	24.077	35.287	0.00	0.00
ATOM	7338	HG22	THR	X	482	23.643	25.349	34.973	0.00	0.00
ATOM	7339	HG23	THR	X	482	24.274	25.176	36.535	0.00	0.00
ATOM	7340	OG1	THR	X	482	25.877	25.838	33.643	0.00	0.00
ATOM	7341	HG1	THR	X	482	26.494	25.106	33.561	0.00	0.00

ATOM	7342	C	THR	X	482	25.694	27.690	36.795	0.00	0.00
ATOM	7343	O	THR	X	482	24.891	27.270	37.596	0.00	0.00
ATOM	7344	N	GLY	X	483	26.829	28.331	37.182	0.00	0.00
ATOM	7345	H	GLY	X	483	27.493	28.715	36.524	0.00	0.00
ATOM	7346	CA	GLY	X	483	27.225	28.378	38.558	0.00	0.00
ATOM	7347	HA2	GLY	X	483	27.887	29.243	38.519	0.00	0.00
ATOM	7348	HA3	GLY	X	483	26.369	28.566	39.206	0.00	0.00
ATOM	7349	C	GLY	X	483	27.834	27.050	39.110	0.00	0.00
ATOM	7350	O	GLY	X	483	27.813	26.811	40.271	0.00	0.00
ATOM	7351	N	ASP	X	484	28.428	26.276	38.200	0.00	0.00
ATOM	7352	H	ASP	X	484	28.201	26.559	37.258	0.00	0.00
ATOM	7353	CA	ASP	X	484	28.916	24.931	38.383	0.00	0.00
ATOM	7354	HA	ASP	X	484	29.505	25.055	39.292	0.00	0.00
ATOM	7355	CB	ASP	X	484	27.731	23.978	38.513	0.00	0.00
ATOM	7356	HB2	ASP	X	484	27.308	24.356	39.444	0.00	0.00
ATOM	7357	HB3	ASP	X	484	26.972	24.175	37.756	0.00	0.00
ATOM	7358	CG	ASP	X	484	28.084	22.476	38.483	0.00	0.00
ATOM	7359	OD1	ASP	X	484	27.147	21.631	38.280	0.00	0.00
ATOM	7360	OD2	ASP	X	484	29.281	22.123	38.637	0.00	0.00
ATOM	7361	C	ASP	X	484	29.884	24.561	37.188	0.00	0.00
ATOM	7362	O	ASP	X	484	29.351	24.532	36.092	0.00	0.00
ATOM	7363	N	PRO	X	485	31.198	24.319	37.403	0.00	0.00
ATOM	7364	CD	PRO	X	485	31.865	24.192	38.670	0.00	0.00
ATOM	7365	HD2	PRO	X	485	31.661	23.170	38.989	0.00	0.00
ATOM	7366	HD3	PRO	X	485	31.580	24.951	39.398	0.00	0.00
ATOM	7367	CG	PRO	X	485	33.302	24.351	38.386	0.00	0.00
ATOM	7368	HG2	PRO	X	485	33.919	23.901	39.164	0.00	0.00
ATOM	7369	HG3	PRO	X	485	33.483	25.423	38.300	0.00	0.00
ATOM	7370	CB	PRO	X	485	33.519	23.818	36.966	0.00	0.00
ATOM	7371	HB2	PRO	X	485	33.786	22.778	37.156	0.00	0.00
ATOM	7372	HB3	PRO	X	485	34.297	24.344	36.413	0.00	0.00
ATOM	7373	CA	PRO	X	485	32.136	23.923	36.342	0.00	0.00
ATOM	7374	HA	PRO	X	485	32.204	24.753	35.639	0.00	0.00
ATOM	7375	C	PRO	X	485	31.830	22.687	35.479	0.00	0.00
ATOM	7376	O	PRO	X	485	32.500	22.400	34.508	0.00	0.00
ATOM	7377	N	ASN	X	486	30.762	21.931	35.849	0.00	0.00
ATOM	7378	H	ASN	X	486	30.271	22.296	36.653	0.00	0.00
ATOM	7379	CA	ASN	X	486	30.428	20.616	35.379	0.00	0.00
ATOM	7380	HA	ASN	X	486	31.195	19.896	35.664	0.00	0.00
ATOM	7381	CB	ASN	X	486	29.233	20.084	36.242	0.00	0.00
ATOM	7382	HB2	ASN	X	486	29.499	20.092	37.299	0.00	0.00
ATOM	7383	HB3	ASN	X	486	28.387	20.702	35.944	0.00	0.00
ATOM	7384	CG	ASN	X	486	28.847	18.743	35.886	0.00	0.00
ATOM	7385	OD1	ASN	X	486	29.528	17.738	36.219	0.00	0.00
ATOM	7386	ND2	ASN	X	486	27.720	18.562	35.178	0.00	0.00
ATOM	7387	HD21	ASN	X	486	27.367	17.616	35.155	0.00	0.00
ATOM	7388	HD22	ASN	X	486	27.152	19.376	34.988	0.00	0.00
ATOM	7389	C	ASN	X	486	30.046	20.551	33.902	0.00	0.00
ATOM	7390	O	ASN	X	486	29.331	21.418	33.402	0.00	0.00
ATOM	7391	N	GLU	X	487	30.393	19.428	33.283	0.00	0.00
ATOM	7392	H	GLU	X	487	30.905	18.746	33.825	0.00	0.00
ATOM	7393	CA	GLU	X	487	29.875	19.003	31.987	0.00	0.00
ATOM	7394	HA	GLU	X	487	29.752	19.896	31.375	0.00	0.00
ATOM	7395	CB	GLU	X	487	30.970	18.112	31.264	0.00	0.00
ATOM	7396	HB2	GLU	X	487	31.188	17.260	31.908	0.00	0.00
ATOM	7397	HB3	GLU	X	487	30.558	17.853	30.289	0.00	0.00
ATOM	7398	CG	GLU	X	487	32.283	18.921	31.043	0.00	0.00
ATOM	7399	HG2	GLU	X	487	32.605	19.500	31.909	0.00	0.00
ATOM	7400	HG3	GLU	X	487	33.132	18.294	30.772	0.00	0.00
ATOM	7401	CD	GLU	X	487	32.210	19.896	29.843	0.00	0.00
ATOM	7402	OE1	GLU	X	487	33.189	19.975	29.054	0.00	0.00
ATOM	7403	OE2	GLU	X	487	31.142	20.607	29.690	0.00	0.00
ATOM	7404	C	GLU	X	487	28.539	18.280	31.997	0.00	0.00
ATOM	7405	O	GLU	X	487	28.366	17.087	32.270	0.00	0.00
ATOM	7406	N	PRO	X	488	27.389	18.895	31.602	0.00	0.00
ATOM	7407	CD	PRO	X	488	27.289	20.223	31.030	0.00	0.00
ATOM	7408	HD2	PRO	X	488	27.993	20.481	30.239	0.00	0.00

ATOM	7409	HD3	PRO	X	488	27.357	20.928	31.859	0.00	0.00
ATOM	7410	CG	PRO	X	488	25.947	20.284	30.322	0.00	0.00
ATOM	7411	HG2	PRO	X	488	25.846	19.681	29.419	0.00	0.00
ATOM	7412	HG3	PRO	X	488	25.539	21.284	30.176	0.00	0.00
ATOM	7413	CB	PRO	X	488	25.117	19.528	31.383	0.00	0.00
ATOM	7414	HB2	PRO	X	488	24.093	19.259	31.122	0.00	0.00
ATOM	7415	HB3	PRO	X	488	25.050	20.241	32.204	0.00	0.00
ATOM	7416	CA	PRO	X	488	26.022	18.354	31.806	0.00	0.00
ATOM	7417	HA	PRO	X	488	25.888	18.149	32.868	0.00	0.00
ATOM	7418	C	PRO	X	488	25.708	17.025	30.949	0.00	0.00
ATOM	7419	O	PRO	X	488	24.872	16.222	31.333	0.00	0.00
ATOM	7420	N	ARG	X	489	26.488	16.761	29.892	0.00	0.00
ATOM	7421	H	ARG	X	489	27.182	17.474	29.718	0.00	0.00
ATOM	7422	CA	ARG	X	489	26.385	15.590	29.044	0.00	0.00
ATOM	7423	HA	ARG	X	489	25.333	15.315	28.964	0.00	0.00
ATOM	7424	CB	ARG	X	489	26.862	15.956	27.611	0.00	0.00
ATOM	7425	HB2	ARG	X	489	26.602	15.090	27.001	0.00	0.00
ATOM	7426	HB3	ARG	X	489	26.400	16.887	27.282	0.00	0.00
ATOM	7427	CG	ARG	X	489	28.372	16.115	27.525	0.00	0.00
ATOM	7428	HG2	ARG	X	489	28.612	17.080	27.971	0.00	0.00
ATOM	7429	HG3	ARG	X	489	28.891	15.262	27.963	0.00	0.00
ATOM	7430	CD	ARG	X	489	29.008	16.202	26.101	0.00	0.00
ATOM	7431	HD2	ARG	X	489	28.674	15.286	25.612	0.00	0.00
ATOM	7432	HD3	ARG	X	489	28.512	16.904	25.430	0.00	0.00
ATOM	7433	NE	ARG	X	489	30.445	16.297	26.028	0.00	0.00
ATOM	7434	HE	ARG	X	489	30.846	17.222	25.967	0.00	0.00
ATOM	7435	CZ	ARG	X	489	31.262	15.274	25.917	0.00	0.00
ATOM	7436	NH1	ARG	X	489	32.565	15.415	25.790	0.00	0.00
ATOM	7437	HH11	ARG	X	489	32.853	16.369	25.953	0.00	0.00
ATOM	7438	HH12	ARG	X	489	33.134	14.635	25.492	0.00	0.00
ATOM	7439	NH2	ARG	X	489	30.798	14.033	25.895	0.00	0.00
ATOM	7440	HH21	ARG	X	489	29.884	13.718	26.187	0.00	0.00
ATOM	7441	HH22	ARG	X	489	31.474	13.286	25.971	0.00	0.00
ATOM	7442	C	ARG	X	489	26.967	14.318	29.678	0.00	0.00
ATOM	7443	O	ARG	X	489	26.912	13.254	29.043	0.00	0.00
ATOM	7444	N	ASP	X	490	27.622	14.410	30.868	0.00	0.00
ATOM	7445	H	ASP	X	490	27.590	15.330	31.286	0.00	0.00
ATOM	7446	CA	ASP	X	490	28.323	13.304	31.590	0.00	0.00
ATOM	7447	HA	ASP	X	490	28.867	13.813	32.386	0.00	0.00
ATOM	7448	CB	ASP	X	490	27.275	12.324	32.286	0.00	0.00
ATOM	7449	HB2	ASP	X	490	26.666	12.928	32.959	0.00	0.00
ATOM	7450	HB3	ASP	X	490	26.677	11.844	31.511	0.00	0.00
ATOM	7451	CG	ASP	X	490	27.875	11.208	33.239	0.00	0.00
ATOM	7452	OD1	ASP	X	490	28.103	11.451	34.468	0.00	0.00
ATOM	7453	OD2	ASP	X	490	28.127	10.113	32.680	0.00	0.00
ATOM	7454	C	ASP	X	490	29.375	12.640	30.678	0.00	0.00
ATOM	7455	O	ASP	X	490	29.019	11.575	30.166	0.00	0.00
ATOM	7456	N	PRO	X	491	30.616	13.144	30.482	0.00	0.00
ATOM	7457	CD	PRO	X	491	30.997	14.489	30.936	0.00	0.00
ATOM	7458	HD2	PRO	X	491	30.839	14.662	32.001	0.00	0.00
ATOM	7459	HD3	PRO	X	491	30.281	15.174	30.483	0.00	0.00
ATOM	7460	CG	PRO	X	491	32.416	14.715	30.383	0.00	0.00
ATOM	7461	HG2	PRO	X	491	33.020	14.520	31.269	0.00	0.00
ATOM	7462	HG3	PRO	X	491	32.513	15.765	30.107	0.00	0.00
ATOM	7463	CB	PRO	X	491	32.535	13.619	29.289	0.00	0.00
ATOM	7464	HB2	PRO	X	491	33.607	13.463	29.173	0.00	0.00
ATOM	7465	HB3	PRO	X	491	32.082	13.930	28.347	0.00	0.00
ATOM	7466	CA	PRO	X	491	31.693	12.428	29.760	0.00	0.00
ATOM	7467	HA	PRO	X	491	31.247	11.906	28.913	0.00	0.00
ATOM	7468	C	PRO	X	491	32.545	11.566	30.704	0.00	0.00
ATOM	7469	O	PRO	X	491	32.598	11.762	31.934	0.00	0.00
ATOM	7470	N	LYS	X	492	33.492	10.857	30.065	0.00	0.00
ATOM	7471	H	LYS	X	492	33.604	10.831	29.062	0.00	0.00
ATOM	7472	CA	LYS	X	492	34.426	9.876	30.730	0.00	0.00
ATOM	7473	HA	LYS	X	492	33.914	9.190	31.404	0.00	0.00
ATOM	7474	CB	LYS	X	492	35.113	9.088	29.651	0.00	0.00
ATOM	7475	HB2	LYS	X	492	35.785	9.728	29.080	0.00	0.00

ATOM	7476	HB3	LYS	X	492	35.751	8.352	30.140	0.00	0.00
ATOM	7477	CG	LYS	X	492	34.139	8.385	28.675	0.00	0.00
ATOM	7478	HG2	LYS	X	492	33.503	9.123	28.186	0.00	0.00
ATOM	7479	HG3	LYS	X	492	34.725	7.786	27.977	0.00	0.00
ATOM	7480	CD	LYS	X	492	33.173	7.424	29.361	0.00	0.00
ATOM	7481	HD2	LYS	X	492	33.744	6.657	29.884	0.00	0.00
ATOM	7482	HD3	LYS	X	492	32.606	7.926	30.145	0.00	0.00
ATOM	7483	CE	LYS	X	492	32.298	6.722	28.354	0.00	0.00
ATOM	7484	HE2	LYS	X	492	31.577	7.402	27.900	0.00	0.00
ATOM	7485	HE3	LYS	X	492	32.805	6.269	27.502	0.00	0.00
ATOM	7486	NZ	LYS	X	492	31.502	5.717	29.051	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	30.969	6.076	29.831	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	30.906	5.284	28.361	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	32.083	4.970	29.405	0.00	0.00
ATOM	7490	C	LYS	X	492	35.590	10.534	31.506	0.00	0.00
ATOM	7491	O	LYS	X	492	36.419	9.879	32.169	0.00	0.00
ATOM	7492	N	ALA	X	493	35.638	11.888	31.356	0.00	0.00
ATOM	7493	H	ALA	X	493	34.823	12.156	30.822	0.00	0.00
ATOM	7494	CA	ALA	X	493	36.486	12.763	32.192	0.00	0.00
ATOM	7495	HA	ALA	X	493	37.420	12.237	32.387	0.00	0.00
ATOM	7496	CB	ALA	X	493	36.848	14.089	31.335	0.00	0.00
ATOM	7497	HB1	ALA	X	493	37.748	13.825	30.781	0.00	0.00
ATOM	7498	HB2	ALA	X	493	37.246	14.745	32.109	0.00	0.00
ATOM	7499	HB3	ALA	X	493	35.959	14.445	30.813	0.00	0.00
ATOM	7500	C	ALA	X	493	35.898	13.190	33.519	0.00	0.00
ATOM	7501	O	ALA	X	493	34.818	13.696	33.688	0.00	0.00
ATOM	7502	N	PRO	X	494	36.712	12.998	34.583	0.00	0.00
ATOM	7503	CD	PRO	X	494	38.014	12.315	34.691	0.00	0.00
ATOM	7504	HD2	PRO	X	494	38.748	12.611	33.942	0.00	0.00
ATOM	7505	HD3	PRO	X	494	37.896	11.231	34.686	0.00	0.00
ATOM	7506	CG	PRO	X	494	38.646	12.636	36.101	0.00	0.00
ATOM	7507	HG2	PRO	X	494	39.171	13.591	36.127	0.00	0.00
ATOM	7508	HG3	PRO	X	494	39.345	11.839	36.355	0.00	0.00
ATOM	7509	CB	PRO	X	494	37.366	12.746	36.939	0.00	0.00
ATOM	7510	HB2	PRO	X	494	37.472	13.490	37.728	0.00	0.00
ATOM	7511	HB3	PRO	X	494	37.081	11.774	37.343	0.00	0.00
ATOM	7512	CA	PRO	X	494	36.304	13.242	35.906	0.00	0.00
ATOM	7513	HA	PRO	X	494	35.455	12.587	36.101	0.00	0.00
ATOM	7514	C	PRO	X	494	35.883	14.742	36.052	0.00	0.00
ATOM	7515	O	PRO	X	494	36.451	15.589	35.308	0.00	0.00
ATOM	7516	N	GLN	X	495	34.987	15.082	37.014	0.00	0.00
ATOM	7517	H	GLN	X	495	34.489	14.327	37.463	0.00	0.00
ATOM	7518	CA	GLN	X	495	34.378	16.325	37.207	0.00	0.00
ATOM	7519	HA	GLN	X	495	34.889	17.001	36.522	0.00	0.00
ATOM	7520	CB	GLN	X	495	32.840	16.231	36.927	0.00	0.00
ATOM	7521	HB2	GLN	X	495	32.471	15.440	37.579	0.00	0.00
ATOM	7522	HB3	GLN	X	495	32.318	17.165	37.140	0.00	0.00
ATOM	7523	CG	GLN	X	495	32.460	15.812	35.510	0.00	0.00
ATOM	7524	HG2	GLN	X	495	32.837	14.799	35.366	0.00	0.00
ATOM	7525	HG3	GLN	X	495	31.375	15.841	35.412	0.00	0.00
ATOM	7526	CD	GLN	X	495	32.957	16.720	34.384	0.00	0.00
ATOM	7527	OE1	GLN	X	495	32.513	17.852	34.220	0.00	0.00
ATOM	7528	NE2	GLN	X	495	33.829	16.372	33.471	0.00	0.00
ATOM	7529	HE21	GLN	X	495	34.119	17.059	32.789	0.00	0.00
ATOM	7530	HE22	GLN	X	495	34.238	15.450	33.425	0.00	0.00
ATOM	7531	C	GLN	X	495	34.625	16.902	38.630	0.00	0.00
ATOM	7532	O	GLN	X	495	34.687	16.109	39.580	0.00	0.00
ATOM	7533	N	TRP	X	496	34.600	18.240	38.746	0.00	0.00
ATOM	7534	H	TRP	X	496	34.587	18.804	37.909	0.00	0.00
ATOM	7535	CA	TRP	X	496	34.772	19.096	40.021	0.00	0.00
ATOM	7536	HA	TRP	X	496	35.649	18.685	40.520	0.00	0.00
ATOM	7537	CB	TRP	X	496	35.150	20.466	39.520	0.00	0.00
ATOM	7538	HB2	TRP	X	496	35.931	20.359	38.767	0.00	0.00
ATOM	7539	HB3	TRP	X	496	34.241	20.776	39.005	0.00	0.00
ATOM	7540	CG	TRP	X	496	35.624	21.568	40.430	0.00	0.00
ATOM	7541	CD1	TRP	X	496	35.499	21.596	41.752	0.00	0.00
ATOM	7542	HD1	TRP	X	496	35.034	20.836	42.362	0.00	0.00

ATOM	7543	NE1	TRP	X	496	36.100	22.771	42.205	0.00	0.00
ATOM	7544	HE1	TRP	X	496	36.069	23.083	43.165	0.00	0.00
ATOM	7545	CE2	TRP	X	496	36.414	23.626	41.141	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	36.837	24.977	41.151	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	36.921	25.577	42.045	0.00	0.00
ATOM	7548	CH2	TRP	X	496	37.298	25.448	39.951	0.00	0.00
ATOM	7549	HH2	TRP	X	496	37.737	26.435	39.963	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	37.280	24.615	38.868	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	37.886	24.891	38.018	0.00	0.00
ATOM	7552	CE3	TRP	X	496	36.569	23.419	38.840	0.00	0.00
ATOM	7553	HE3	TRP	X	496	36.505	22.799	37.958	0.00	0.00
ATOM	7554	CD2	TRP	X	496	36.197	22.814	40.040	0.00	0.00
ATOM	7555	C	TRP	X	496	33.444	19.077	40.842	0.00	0.00
ATOM	7556	O	TRP	X	496	32.526	19.773	40.442	0.00	0.00
ATOM	7557	N	PRO	X	497	33.437	18.351	41.966	0.00	0.00
ATOM	7558	CD	PRO	X	497	34.494	17.600	42.584	0.00	0.00
ATOM	7559	HD2	PRO	X	497	35.464	18.097	42.608	0.00	0.00
ATOM	7560	HD3	PRO	X	497	34.607	16.620	42.121	0.00	0.00
ATOM	7561	CG	PRO	X	497	34.030	17.129	43.925	0.00	0.00
ATOM	7562	HG2	PRO	X	497	34.268	17.798	44.752	0.00	0.00
ATOM	7563	HG3	PRO	X	497	34.350	16.121	44.192	0.00	0.00
ATOM	7564	CB	PRO	X	497	32.506	17.264	43.857	0.00	0.00
ATOM	7565	HB2	PRO	X	497	32.030	17.560	44.791	0.00	0.00
ATOM	7566	HB3	PRO	X	497	31.988	16.452	43.345	0.00	0.00
ATOM	7567	CA	PRO	X	497	32.352	18.446	42.905	0.00	0.00
ATOM	7568	HA	PRO	X	497	31.377	18.352	42.427	0.00	0.00
ATOM	7569	C	PRO	X	497	32.386	19.754	43.644	0.00	0.00
ATOM	7570	O	PRO	X	497	33.481	20.346	43.693	0.00	0.00
ATOM	7571	N	PRO	X	498	31.251	20.210	44.218	0.00	0.00
ATOM	7572	CD	PRO	X	498	29.982	19.544	43.996	0.00	0.00
ATOM	7573	HD2	PRO	X	498	29.987	18.482	44.244	0.00	0.00
ATOM	7574	HD3	PRO	X	498	29.682	19.654	42.954	0.00	0.00
ATOM	7575	CG	PRO	X	498	29.071	20.301	44.970	0.00	0.00
ATOM	7576	HG2	PRO	X	498	29.137	19.739	45.902	0.00	0.00
ATOM	7577	HG3	PRO	X	498	28.034	20.328	44.636	0.00	0.00
ATOM	7578	CB	PRO	X	498	29.633	21.685	45.124	0.00	0.00
ATOM	7579	HB2	PRO	X	498	29.310	22.105	46.077	0.00	0.00
ATOM	7580	HB3	PRO	X	498	29.329	22.161	44.192	0.00	0.00
ATOM	7581	CA	PRO	X	498	31.134	21.373	45.113	0.00	0.00
ATOM	7582	HA	PRO	X	498	31.642	22.273	44.769	0.00	0.00
ATOM	7583	C	PRO	X	498	31.753	21.251	46.528	0.00	0.00
ATOM	7584	O	PRO	X	498	31.701	20.149	47.081	0.00	0.00
ATOM	7585	N	TYR	X	499	32.098	22.456	47.053	0.00	0.00
ATOM	7586	H	TYR	X	499	31.813	23.275	46.535	0.00	0.00
ATOM	7587	CA	TYR	X	499	32.609	22.624	48.386	0.00	0.00
ATOM	7588	HA	TYR	X	499	33.142	21.707	48.635	0.00	0.00
ATOM	7589	CB	TYR	X	499	33.578	23.850	48.534	0.00	0.00
ATOM	7590	HB2	TYR	X	499	34.394	23.844	47.812	0.00	0.00
ATOM	7591	HB3	TYR	X	499	33.037	24.779	48.356	0.00	0.00
ATOM	7592	CG	TYR	X	499	34.309	23.795	49.903	0.00	0.00
ATOM	7593	CD1	TYR	X	499	33.715	24.407	51.039	0.00	0.00
ATOM	7594	HD1	TYR	X	499	32.708	24.797	51.020	0.00	0.00
ATOM	7595	CE1	TYR	X	499	34.370	24.438	52.293	0.00	0.00
ATOM	7596	HE1	TYR	X	499	33.839	24.692	53.199	0.00	0.00
ATOM	7597	CZ	TYR	X	499	35.712	24.016	52.392	0.00	0.00
ATOM	7598	OH	TYR	X	499	36.392	24.132	53.584	0.00	0.00
ATOM	7599	HH	TYR	X	499	35.974	24.527	54.352	0.00	0.00
ATOM	7600	CE2	TYR	X	499	36.220	23.401	51.263	0.00	0.00
ATOM	7601	HE2	TYR	X	499	37.198	22.946	51.302	0.00	0.00
ATOM	7602	CD2	TYR	X	499	35.567	23.298	50.052	0.00	0.00
ATOM	7603	HD2	TYR	X	499	35.994	22.721	49.246	0.00	0.00
ATOM	7604	C	TYR	X	499	31.382	22.700	49.359	0.00	0.00
ATOM	7605	O	TYR	X	499	30.686	23.707	49.384	0.00	0.00
ATOM	7606	N	THR	X	500	31.138	21.720	50.148	0.00	0.00
ATOM	7607	H	THR	X	500	31.845	21.010	50.280	0.00	0.00
ATOM	7608	CA	THR	X	500	30.010	21.627	51.160	0.00	0.00
ATOM	7609	HA	THR	X	500	29.399	22.520	51.035	0.00	0.00

ATOM	7610	CB	THR	X	500	29.023	20.486	50.901	0.00	0.00
ATOM	7611	HB	THR	X	500	28.418	20.288	51.786	0.00	0.00
ATOM	7612	CG2	THR	X	500	28.068	20.793	49.674	0.00	0.00
ATOM	7613	HG21	THR	X	500	28.455	21.469	48.911	0.00	0.00
ATOM	7614	HG22	THR	X	500	27.132	21.129	50.119	0.00	0.00
ATOM	7615	HG23	THR	X	500	27.954	19.915	49.038	0.00	0.00
ATOM	7616	OG1	THR	X	500	29.800	19.397	50.562	0.00	0.00
ATOM	7617	HG1	THR	X	500	29.293	18.583	50.615	0.00	0.00
ATOM	7618	C	THR	X	500	30.589	21.528	52.551	0.00	0.00
ATOM	7619	O	THR	X	500	31.559	20.804	52.766	0.00	0.00
ATOM	7620	N	ALA	X	501	30.012	22.333	53.441	0.00	0.00
ATOM	7621	H	ALA	X	501	29.268	22.930	53.111	0.00	0.00
ATOM	7622	CA	ALA	X	501	30.463	22.599	54.774	0.00	0.00
ATOM	7623	HA	ALA	X	501	31.279	23.321	54.780	0.00	0.00
ATOM	7624	CB	ALA	X	501	29.273	23.161	55.573	0.00	0.00
ATOM	7625	HB1	ALA	X	501	29.424	23.261	56.647	0.00	0.00
ATOM	7626	HB2	ALA	X	501	28.366	22.570	55.446	0.00	0.00
ATOM	7627	HB3	ALA	X	501	29.140	24.189	55.235	0.00	0.00
ATOM	7628	C	ALA	X	501	31.066	21.451	55.532	0.00	0.00
ATOM	7629	O	ALA	X	501	32.128	21.580	56.139	0.00	0.00
ATOM	7630	N	GLY	X	502	30.520	20.190	55.401	0.00	0.00
ATOM	7631	H	GLY	X	502	29.702	20.078	54.819	0.00	0.00
ATOM	7632	CA	GLY	X	502	30.972	19.083	56.224	0.00	0.00
ATOM	7633	HA2	GLY	X	502	31.390	19.475	57.152	0.00	0.00
ATOM	7634	HA3	GLY	X	502	30.118	18.425	56.380	0.00	0.00
ATOM	7635	C	GLY	X	502	31.914	18.216	55.397	0.00	0.00
ATOM	7636	O	GLY	X	502	32.525	17.342	56.050	0.00	0.00
ATOM	7637	N	ALA	X	503	32.086	18.381	54.092	0.00	0.00
ATOM	7638	H	ALA	X	503	31.652	19.158	53.614	0.00	0.00
ATOM	7639	CA	ALA	X	503	32.856	17.486	53.215	0.00	0.00
ATOM	7640	HA	ALA	X	503	33.265	16.602	53.704	0.00	0.00
ATOM	7641	CB	ALA	X	503	32.031	17.182	51.967	0.00	0.00
ATOM	7642	HB1	ALA	X	503	31.663	18.089	51.486	0.00	0.00
ATOM	7643	HB2	ALA	X	503	31.340	16.378	52.219	0.00	0.00
ATOM	7644	HB3	ALA	X	503	32.682	16.678	51.253	0.00	0.00
ATOM	7645	C	ALA	X	503	34.144	18.160	52.822	0.00	0.00
ATOM	7646	O	ALA	X	503	35.170	17.458	52.694	0.00	0.00
ATOM	7647	N	GLN	X	504	34.100	19.521	52.494	0.00	0.00
ATOM	7648	H	GLN	X	504	33.205	19.974	52.376	0.00	0.00
ATOM	7649	CA	GLN	X	504	35.269	20.312	52.345	0.00	0.00
ATOM	7650	HA	GLN	X	504	34.836	21.281	52.095	0.00	0.00
ATOM	7651	CB	GLN	X	504	36.013	20.461	53.702	0.00	0.00
ATOM	7652	HB2	GLN	X	504	36.438	19.482	53.923	0.00	0.00
ATOM	7653	HB3	GLN	X	504	36.820	21.175	53.534	0.00	0.00
ATOM	7654	CG	GLN	X	504	35.128	20.955	54.925	0.00	0.00
ATOM	7655	HG2	GLN	X	504	34.787	21.977	54.759	0.00	0.00
ATOM	7656	HG3	GLN	X	504	34.236	20.337	55.024	0.00	0.00
ATOM	7657	CD	GLN	X	504	35.860	20.934	56.256	0.00	0.00
ATOM	7658	OE1	GLN	X	504	36.145	21.900	56.980	0.00	0.00
ATOM	7659	NE2	GLN	X	504	36.425	19.788	56.664	0.00	0.00
ATOM	7660	HE21	GLN	X	504	37.031	19.831	57.470	0.00	0.00
ATOM	7661	HE22	GLN	X	504	36.114	18.864	56.399	0.00	0.00
ATOM	7662	C	GLN	X	504	36.179	20.064	51.159	0.00	0.00
ATOM	7663	O	GLN	X	504	37.393	20.332	51.203	0.00	0.00
ATOM	7664	N	GLN	X	505	35.601	19.490	50.088	0.00	0.00
ATOM	7665	H	GLN	X	505	34.609	19.553	49.905	0.00	0.00
ATOM	7666	CA	GLN	X	505	36.353	19.036	48.925	0.00	0.00
ATOM	7667	HA	GLN	X	505	37.156	18.379	49.259	0.00	0.00
ATOM	7668	CB	GLN	X	505	35.483	18.265	47.879	0.00	0.00
ATOM	7669	HB2	GLN	X	505	34.555	18.760	47.593	0.00	0.00
ATOM	7670	HB3	GLN	X	505	36.028	18.047	46.960	0.00	0.00
ATOM	7671	CG	GLN	X	505	35.095	16.943	48.596	0.00	0.00
ATOM	7672	HG2	GLN	X	505	35.992	16.357	48.797	0.00	0.00
ATOM	7673	HG3	GLN	X	505	34.620	17.171	49.550	0.00	0.00
ATOM	7674	CD	GLN	X	505	34.080	16.103	47.808	0.00	0.00
ATOM	7675	OE1	GLN	X	505	32.960	16.525	47.538	0.00	0.00
ATOM	7676	NE2	GLN	X	505	34.398	14.890	47.355	0.00	0.00

ATOM	7677	HE21	GLN	X	505	33.840	14.553	46.583	0.00	0.00
ATOM	7678	HE22	GLN	X	505	35.336	14.602	47.597	0.00	0.00
ATOM	7679	C	GLN	X	505	36.891	20.201	48.093	0.00	0.00
ATOM	7680	O	GLN	X	505	36.099	20.876	47.421	0.00	0.00
ATOM	7681	N	TYR	X	506	38.221	20.366	48.093	0.00	0.00
ATOM	7682	H	TYR	X	506	38.786	19.792	48.702	0.00	0.00
ATOM	7683	CA	TYR	X	506	38.931	21.181	47.153	0.00	0.00
ATOM	7684	HA	TYR	X	506	38.194	21.744	46.580	0.00	0.00
ATOM	7685	CB	TYR	X	506	39.824	22.261	47.973	0.00	0.00
ATOM	7686	HB2	TYR	X	506	40.216	23.041	47.320	0.00	0.00
ATOM	7687	HB3	TYR	X	506	39.352	22.675	48.864	0.00	0.00
ATOM	7688	CG	TYR	X	506	41.049	21.607	48.584	0.00	0.00
ATOM	7689	CD1	TYR	X	506	41.020	20.701	49.688	0.00	0.00
ATOM	7690	HD1	TYR	X	506	40.027	20.444	50.026	0.00	0.00
ATOM	7691	CE1	TYR	X	506	42.140	20.072	50.249	0.00	0.00
ATOM	7692	HE1	TYR	X	506	42.042	19.378	51.071	0.00	0.00
ATOM	7693	CZ	TYR	X	506	43.378	20.479	49.697	0.00	0.00
ATOM	7694	OH	TYR	X	506	44.555	19.882	50.068	0.00	0.00
ATOM	7695	HH	TYR	X	506	44.424	19.160	50.687	0.00	0.00
ATOM	7696	CE2	TYR	X	506	43.450	21.421	48.640	0.00	0.00
ATOM	7697	HE2	TYR	X	506	44.395	21.674	48.182	0.00	0.00
ATOM	7698	CD2	TYR	X	506	42.284	21.935	48.035	0.00	0.00
ATOM	7699	HD2	TYR	X	506	42.353	22.501	47.118	0.00	0.00
ATOM	7700	C	TYR	X	506	39.698	20.355	46.068	0.00	0.00
ATOM	7701	O	TYR	X	506	40.336	19.415	46.385	0.00	0.00
ATOM	7702	N	VAL	X	507	39.595	20.778	44.797	0.00	0.00
ATOM	7703	H	VAL	X	507	38.963	21.564	44.741	0.00	0.00
ATOM	7704	CA	VAL	X	507	40.098	19.933	43.651	0.00	0.00
ATOM	7705	HA	VAL	X	507	40.207	18.928	44.058	0.00	0.00
ATOM	7706	CB	VAL	X	507	39.237	20.097	42.456	0.00	0.00
ATOM	7707	HB	VAL	X	507	39.482	19.434	41.627	0.00	0.00
ATOM	7708	CG1	VAL	X	507	37.820	19.687	42.892	0.00	0.00
ATOM	7709	HG11	VAL	X	507	37.120	19.543	42.069	0.00	0.00
ATOM	7710	HG12	VAL	X	507	37.961	18.800	43.510	0.00	0.00
ATOM	7711	HG13	VAL	X	507	37.440	20.475	43.541	0.00	0.00
ATOM	7712	CG2	VAL	X	507	39.287	21.474	41.715	0.00	0.00
ATOM	7713	HG21	VAL	X	507	38.696	21.389	40.803	0.00	0.00
ATOM	7714	HG22	VAL	X	507	40.341	21.611	41.475	0.00	0.00
ATOM	7715	HG23	VAL	X	507	38.819	22.261	42.306	0.00	0.00
ATOM	7716	C	VAL	X	507	41.620	20.302	43.400	0.00	0.00
ATOM	7717	O	VAL	X	507	42.059	21.341	43.749	0.00	0.00
ATOM	7718	N	SER	X	508	42.345	19.376	42.795	0.00	0.00
ATOM	7719	H	SER	X	508	41.925	18.473	42.624	0.00	0.00
ATOM	7720	CA	SER	X	508	43.661	19.615	42.170	0.00	0.00
ATOM	7721	HA	SER	X	508	44.254	20.418	42.609	0.00	0.00
ATOM	7722	CB	SER	X	508	44.466	18.277	42.389	0.00	0.00
ATOM	7723	HB2	SER	X	508	44.754	18.126	43.430	0.00	0.00
ATOM	7724	HB3	SER	X	508	43.964	17.358	42.086	0.00	0.00
ATOM	7725	OG	SER	X	508	45.704	18.315	41.703	0.00	0.00
ATOM	7726	HG	SER	X	508	46.458	18.620	42.213	0.00	0.00
ATOM	7727	C	SER	X	508	43.378	19.880	40.632	0.00	0.00
ATOM	7728	O	SER	X	508	42.443	19.197	40.077	0.00	0.00
ATOM	7729	N	LEU	X	509	44.110	20.858	40.041	0.00	0.00
ATOM	7730	H	LEU	X	509	44.745	21.391	40.618	0.00	0.00
ATOM	7731	CA	LEU	X	509	44.007	21.130	38.627	0.00	0.00
ATOM	7732	HA	LEU	X	509	43.441	20.344	38.127	0.00	0.00
ATOM	7733	CB	LEU	X	509	43.490	22.535	38.305	0.00	0.00
ATOM	7734	HB2	LEU	X	509	43.893	23.290	38.981	0.00	0.00
ATOM	7735	HB3	LEU	X	509	43.751	22.840	37.292	0.00	0.00
ATOM	7736	CG	LEU	X	509	41.972	22.581	38.501	0.00	0.00
ATOM	7737	HG	LEU	X	509	41.702	22.098	39.440	0.00	0.00
ATOM	7738	CD1	LEU	X	509	41.375	24.006	38.594	0.00	0.00
ATOM	7739	HD11	LEU	X	509	41.751	24.422	39.529	0.00	0.00
ATOM	7740	HD12	LEU	X	509	40.318	24.005	38.860	0.00	0.00
ATOM	7741	HD13	LEU	X	509	41.454	24.627	37.702	0.00	0.00
ATOM	7742	CD2	LEU	X	509	41.195	21.816	37.396	0.00	0.00
ATOM	7743	HD21	LEU	X	509	41.059	20.745	37.544	0.00	0.00

ATOM	7744	HD22	LEU	X	509	40.213	22.283	37.329	0.00	0.00
ATOM	7745	HD23	LEU	X	509	41.719	21.825	36.440	0.00	0.00
ATOM	7746	C	LEU	X	509	45.469	20.997	38.093	0.00	0.00
ATOM	7747	O	LEU	X	509	46.392	21.629	38.646	0.00	0.00
ATOM	7748	N	ASP	X	510	45.638	20.148	37.106	0.00	0.00
ATOM	7749	H	ASP	X	510	44.837	19.700	36.684	0.00	0.00
ATOM	7750	CA	ASP	X	510	46.910	19.664	36.605	0.00	0.00
ATOM	7751	HA	ASP	X	510	47.657	20.457	36.632	0.00	0.00
ATOM	7752	CB	ASP	X	510	47.298	18.539	37.595	0.00	0.00
ATOM	7753	HB2	ASP	X	510	47.388	19.004	38.576	0.00	0.00
ATOM	7754	HB3	ASP	X	510	46.553	17.746	37.653	0.00	0.00
ATOM	7755	CG	ASP	X	510	48.669	17.850	37.334	0.00	0.00
ATOM	7756	OD1	ASP	X	510	49.590	18.466	36.809	0.00	0.00
ATOM	7757	OD2	ASP	X	510	48.821	16.677	37.698	0.00	0.00
ATOM	7758	C	ASP	X	510	46.816	19.163	35.141	0.00	0.00
ATOM	7759	O	ASP	X	510	45.705	19.203	34.621	0.00	0.00
ATOM	7760	N	LEU	X	511	47.976	18.589	34.567	0.00	0.00
ATOM	7761	H	LEU	X	511	48.852	18.556	35.068	0.00	0.00
ATOM	7762	CA	LEU	X	511	47.955	17.840	33.283	0.00	0.00
ATOM	7763	HA	LEU	X	511	47.335	18.338	32.537	0.00	0.00
ATOM	7764	CB	LEU	X	511	49.414	17.605	32.920	0.00	0.00
ATOM	7765	HB2	LEU	X	511	50.007	17.042	33.640	0.00	0.00
ATOM	7766	HB3	LEU	X	511	49.352	16.950	32.051	0.00	0.00
ATOM	7767	CG	LEU	X	511	50.100	18.883	32.544	0.00	0.00
ATOM	7768	HG	LEU	X	511	50.202	19.415	33.490	0.00	0.00
ATOM	7769	CD1	LEU	X	511	51.508	18.500	32.131	0.00	0.00
ATOM	7770	HD11	LEU	X	511	52.033	19.323	31.646	0.00	0.00
ATOM	7771	HD12	LEU	X	511	51.614	17.592	31.535	0.00	0.00
ATOM	7772	HD13	LEU	X	511	51.979	18.283	33.090	0.00	0.00
ATOM	7773	CD2	LEU	X	511	49.421	19.803	31.481	0.00	0.00
ATOM	7774	HD21	LEU	X	511	49.156	19.359	30.522	0.00	0.00
ATOM	7775	HD22	LEU	X	511	48.498	20.219	31.885	0.00	0.00
ATOM	7776	HD23	LEU	X	511	50.024	20.696	31.321	0.00	0.00
ATOM	7777	C	LEU	X	511	47.046	16.566	33.337	0.00	0.00
ATOM	7778	O	LEU	X	511	46.195	16.398	32.472	0.00	0.00
ATOM	7779	N	ARG	X	512	47.157	15.851	34.513	0.00	0.00
ATOM	7780	H	ARG	X	512	47.825	16.097	35.230	0.00	0.00
ATOM	7781	CA	ARG	X	512	46.259	14.820	34.945	0.00	0.00
ATOM	7782	HA	ARG	X	512	46.460	13.978	34.283	0.00	0.00
ATOM	7783	CB	ARG	X	512	46.634	14.335	36.363	0.00	0.00
ATOM	7784	HB2	ARG	X	512	46.867	15.289	36.838	0.00	0.00
ATOM	7785	HB3	ARG	X	512	45.828	13.714	36.752	0.00	0.00
ATOM	7786	CG	ARG	X	512	47.891	13.495	36.188	0.00	0.00
ATOM	7787	HG2	ARG	X	512	47.645	12.658	35.535	0.00	0.00
ATOM	7788	HG3	ARG	X	512	48.610	14.089	35.624	0.00	0.00
ATOM	7789	CD	ARG	X	512	48.444	12.938	37.574	0.00	0.00
ATOM	7790	HD2	ARG	X	512	47.662	12.376	38.084	0.00	0.00
ATOM	7791	HD3	ARG	X	512	49.278	12.291	37.303	0.00	0.00
ATOM	7792	NE	ARG	X	512	49.016	14.080	38.371	0.00	0.00
ATOM	7793	HE	ARG	X	512	48.937	15.015	37.997	0.00	0.00
ATOM	7794	CZ	ARG	X	512	49.688	14.031	39.529	0.00	0.00
ATOM	7795	NH1	ARG	X	512	50.023	12.946	40.174	0.00	0.00
ATOM	7796	HH11	ARG	X	512	49.614	12.032	40.039	0.00	0.00
ATOM	7797	HH12	ARG	X	512	50.547	13.180	41.004	0.00	0.00
ATOM	7798	NH2	ARG	X	512	50.088	15.165	40.031	0.00	0.00
ATOM	7799	HH21	ARG	X	512	49.738	16.022	39.628	0.00	0.00
ATOM	7800	HH22	ARG	X	512	50.501	15.229	40.950	0.00	0.00
ATOM	7801	C	ARG	X	512	44.786	15.219	34.963	0.00	0.00
ATOM	7802	O	ARG	X	512	44.385	16.396	35.219	0.00	0.00
ATOM	7803	N	PRO	X	513	44.008	14.206	34.777	0.00	0.00
ATOM	7804	CD	PRO	X	513	44.212	12.886	34.120	0.00	0.00
ATOM	7805	HD2	PRO	X	513	44.728	12.200	34.791	0.00	0.00
ATOM	7806	HD3	PRO	X	513	44.826	13.093	33.244	0.00	0.00
ATOM	7807	CG	PRO	X	513	42.811	12.379	33.671	0.00	0.00
ATOM	7808	HG2	PRO	X	513	42.769	11.319	33.416	0.00	0.00
ATOM	7809	HG3	PRO	X	513	42.546	12.944	32.777	0.00	0.00
ATOM	7810	CB	PRO	X	513	41.926	12.901	34.810	0.00	0.00

ATOM	7811	HB2	PRO	X	513	41.955	12.198	35.642	0.00	0.00
ATOM	7812	HB3	PRO	X	513	40.903	13.123	34.507	0.00	0.00
ATOM	7813	CA	PRO	X	513	42.570	14.197	35.224	0.00	0.00
ATOM	7814	HA	PRO	X	513	42.037	14.963	34.661	0.00	0.00
ATOM	7815	C	PRO	X	513	42.347	14.492	36.705	0.00	0.00
ATOM	7816	O	PRO	X	513	43.201	14.222	37.495	0.00	0.00
ATOM	7817	N	LEU	X	514	41.201	15.083	36.937	0.00	0.00
ATOM	7818	H	LEU	X	514	40.555	15.225	36.174	0.00	0.00
ATOM	7819	CA	LEU	X	514	40.832	15.773	38.201	0.00	0.00
ATOM	7820	HA	LEU	X	514	41.750	16.348	38.330	0.00	0.00
ATOM	7821	CB	LEU	X	514	39.626	16.737	37.972	0.00	0.00
ATOM	7822	HB2	LEU	X	514	39.816	17.297	37.057	0.00	0.00
ATOM	7823	HB3	LEU	X	514	38.722	16.137	37.868	0.00	0.00
ATOM	7824	CG	LEU	X	514	39.322	17.727	39.192	0.00	0.00
ATOM	7825	HG	LEU	X	514	40.278	18.095	39.566	0.00	0.00
ATOM	7826	CD1	LEU	X	514	38.435	18.849	38.549	0.00	0.00
ATOM	7827	HD11	LEU	X	514	37.601	18.350	38.056	0.00	0.00
ATOM	7828	HD12	LEU	X	514	38.879	19.459	37.762	0.00	0.00
ATOM	7829	HD13	LEU	X	514	38.042	19.468	39.356	0.00	0.00
ATOM	7830	CD2	LEU	X	514	38.491	17.043	40.322	0.00	0.00
ATOM	7831	HD21	LEU	X	514	39.123	16.323	40.842	0.00	0.00
ATOM	7832	HD22	LEU	X	514	38.115	17.779	41.031	0.00	0.00
ATOM	7833	HD23	LEU	X	514	37.633	16.526	39.892	0.00	0.00
ATOM	7834	C	LEU	X	514	40.955	14.836	39.421	0.00	0.00
ATOM	7835	O	LEU	X	514	40.186	13.881	39.579	0.00	0.00
ATOM	7836	N	GLU	X	515	41.905	15.127	40.324	0.00	0.00
ATOM	7837	H	GLU	X	515	42.688	15.697	40.038	0.00	0.00
ATOM	7838	CA	GLU	X	515	41.928	14.581	41.684	0.00	0.00
ATOM	7839	HA	GLU	X	515	41.454	13.600	41.709	0.00	0.00
ATOM	7840	CB	GLU	X	515	43.341	14.321	42.096	0.00	0.00
ATOM	7841	HB2	GLU	X	515	43.771	13.532	41.478	0.00	0.00
ATOM	7842	HB3	GLU	X	515	43.900	15.239	41.915	0.00	0.00
ATOM	7843	CG	GLU	X	515	43.454	13.906	43.604	0.00	0.00
ATOM	7844	HG2	GLU	X	515	43.013	14.683	44.229	0.00	0.00
ATOM	7845	HG3	GLU	X	515	42.888	12.995	43.797	0.00	0.00
ATOM	7846	CD	GLU	X	515	44.952	13.693	44.043	0.00	0.00
ATOM	7847	OE1	GLU	X	515	45.634	12.682	43.796	0.00	0.00
ATOM	7848	OE2	GLU	X	515	45.421	14.594	44.715	0.00	0.00
ATOM	7849	C	GLU	X	515	41.135	15.512	42.674	0.00	0.00
ATOM	7850	O	GLU	X	515	41.378	16.693	42.803	0.00	0.00
ATOM	7851	N	VAL	X	516	40.262	14.918	43.549	0.00	0.00
ATOM	7852	H	VAL	X	516	40.096	13.933	43.395	0.00	0.00
ATOM	7853	CA	VAL	X	516	39.634	15.532	44.682	0.00	0.00
ATOM	7854	HA	VAL	X	516	39.631	16.616	44.571	0.00	0.00
ATOM	7855	CB	VAL	X	516	38.184	15.076	44.790	0.00	0.00
ATOM	7856	HB	VAL	X	516	38.067	14.044	45.120	0.00	0.00
ATOM	7857	CG1	VAL	X	516	37.477	16.070	45.807	0.00	0.00
ATOM	7858	HG11	VAL	X	516	36.451	15.757	45.996	0.00	0.00
ATOM	7859	HG12	VAL	X	516	37.937	16.102	46.795	0.00	0.00
ATOM	7860	HG13	VAL	X	516	37.419	17.076	45.390	0.00	0.00
ATOM	7861	CG2	VAL	X	516	37.424	15.221	43.436	0.00	0.00
ATOM	7862	HG21	VAL	X	516	36.374	15.058	43.679	0.00	0.00
ATOM	7863	HG22	VAL	X	516	37.797	14.469	42.741	0.00	0.00
ATOM	7864	HG23	VAL	X	516	37.533	16.263	43.134	0.00	0.00
ATOM	7865	C	VAL	X	516	40.428	15.294	45.992	0.00	0.00
ATOM	7866	O	VAL	X	516	40.638	14.178	46.405	0.00	0.00
ATOM	7867	N	ARG	X	517	40.694	16.394	46.728	0.00	0.00
ATOM	7868	H	ARG	X	517	40.553	17.275	46.253	0.00	0.00
ATOM	7869	CA	ARG	X	517	41.289	16.423	48.102	0.00	0.00
ATOM	7870	HA	ARG	X	517	41.531	15.421	48.456	0.00	0.00
ATOM	7871	CB	ARG	X	517	42.545	17.280	48.116	0.00	0.00
ATOM	7872	HB2	ARG	X	517	42.345	18.307	47.811	0.00	0.00
ATOM	7873	HB3	ARG	X	517	43.025	17.397	49.087	0.00	0.00
ATOM	7874	CG	ARG	X	517	43.607	16.676	47.240	0.00	0.00
ATOM	7875	HG2	ARG	X	517	43.743	15.617	47.463	0.00	0.00
ATOM	7876	HG3	ARG	X	517	43.367	16.594	46.180	0.00	0.00
ATOM	7877	CD	ARG	X	517	44.961	17.413	47.338	0.00	0.00

ATOM	7878	HD2	ARG	X	517	44.900	18.487	47.162	0.00	0.00
ATOM	7879	HD3	ARG	X	517	45.334	17.337	48.359	0.00	0.00
ATOM	7880	NE	ARG	X	517	45.916	16.738	46.395	0.00	0.00
ATOM	7881	HE	ARG	X	517	45.606	15.867	45.988	0.00	0.00
ATOM	7882	CZ	ARG	X	517	46.836	17.377	45.675	0.00	0.00
ATOM	7883	NH1	ARG	X	517	47.241	18.616	46.043	0.00	0.00
ATOM	7884	HH11	ARG	X	517	46.916	19.111	46.860	0.00	0.00
ATOM	7885	HH12	ARG	X	517	47.864	19.134	45.440	0.00	0.00
ATOM	7886	NH2	ARG	X	517	47.168	16.904	44.530	0.00	0.00
ATOM	7887	HH21	ARG	X	517	46.603	16.150	44.166	0.00	0.00
ATOM	7888	HH22	ARG	X	517	47.765	17.507	43.983	0.00	0.00
ATOM	7889	C	ARG	X	517	40.302	17.032	49.086	0.00	0.00
ATOM	7890	O	ARG	X	517	39.450	17.892	48.775	0.00	0.00
ATOM	7891	N	ARG	X	518	40.420	16.656	50.370	0.00	0.00
ATOM	7892	H	ARG	X	518	41.320	16.282	50.637	0.00	0.00
ATOM	7893	CA	ARG	X	518	39.483	16.901	51.487	0.00	0.00
ATOM	7894	HA	ARG	X	518	38.701	17.477	50.992	0.00	0.00
ATOM	7895	CB	ARG	X	518	38.823	15.607	51.968	0.00	0.00
ATOM	7896	HB2	ARG	X	518	38.230	15.818	52.857	0.00	0.00
ATOM	7897	HB3	ARG	X	518	38.173	15.434	51.110	0.00	0.00
ATOM	7898	CG	ARG	X	518	39.776	14.477	52.255	0.00	0.00
ATOM	7899	HG2	ARG	X	518	40.359	14.233	51.367	0.00	0.00
ATOM	7900	HG3	ARG	X	518	40.478	14.828	53.012	0.00	0.00
ATOM	7901	CD	ARG	X	518	38.942	13.212	52.642	0.00	0.00
ATOM	7902	HD2	ARG	X	518	38.293	13.497	53.470	0.00	0.00
ATOM	7903	HD3	ARG	X	518	38.455	12.856	51.735	0.00	0.00
ATOM	7904	NE	ARG	X	518	39.793	12.140	53.127	0.00	0.00
ATOM	7905	HE	ARG	X	518	40.791	12.280	53.057	0.00	0.00
ATOM	7906	CZ	ARG	X	518	39.502	10.909	53.456	0.00	0.00
ATOM	7907	NH1	ARG	X	518	38.253	10.510	53.465	0.00	0.00
ATOM	7908	HH11	ARG	X	518	37.582	11.189	53.135	0.00	0.00
ATOM	7909	HH12	ARG	X	518	38.003	9.598	53.818	0.00	0.00
ATOM	7910	NH2	ARG	X	518	40.452	10.150	53.887	0.00	0.00
ATOM	7911	HH21	ARG	X	518	41.442	10.347	53.900	0.00	0.00
ATOM	7912	HH22	ARG	X	518	40.115	9.198	53.861	0.00	0.00
ATOM	7913	C	ARG	X	518	40.080	17.774	52.586	0.00	0.00
ATOM	7914	O	ARG	X	518	41.311	17.842	52.850	0.00	0.00
ATOM	7915	N	GLY	X	519	39.229	18.455	53.318	0.00	0.00
ATOM	7916	H	GLY	X	519	38.258	18.266	53.115	0.00	0.00
ATOM	7917	CA	GLY	X	519	39.549	19.136	54.523	0.00	0.00
ATOM	7918	HA2	GLY	X	519	38.702	19.577	55.048	0.00	0.00
ATOM	7919	HA3	GLY	X	519	40.058	18.356	55.090	0.00	0.00
ATOM	7920	C	GLY	X	519	40.488	20.324	54.296	0.00	0.00
ATOM	7921	O	GLY	X	519	41.547	20.477	54.960	0.00	0.00
ATOM	7922	N	LEU	X	520	40.327	21.122	53.283	0.00	0.00
ATOM	7923	H	LEU	X	520	39.443	21.054	52.798	0.00	0.00
ATOM	7924	CA	LEU	X	520	41.151	22.257	52.873	0.00	0.00
ATOM	7925	HA	LEU	X	520	42.002	21.954	52.262	0.00	0.00
ATOM	7926	CB	LEU	X	520	40.208	23.185	51.983	0.00	0.00
ATOM	7927	HB2	LEU	X	520	39.918	22.736	51.033	0.00	0.00
ATOM	7928	HB3	LEU	X	520	39.286	23.405	52.521	0.00	0.00
ATOM	7929	CG	LEU	X	520	40.751	24.569	51.538	0.00	0.00
ATOM	7930	HG	LEU	X	520	41.217	25.068	52.388	0.00	0.00
ATOM	7931	CD1	LEU	X	520	41.826	24.539	50.389	0.00	0.00
ATOM	7932	HD11	LEU	X	520	42.617	23.874	50.734	0.00	0.00
ATOM	7933	HD12	LEU	X	520	42.209	25.529	50.142	0.00	0.00
ATOM	7934	HD13	LEU	X	520	41.430	24.194	49.433	0.00	0.00
ATOM	7935	CD2	LEU	X	520	39.590	25.453	50.902	0.00	0.00
ATOM	7936	HD21	LEU	X	520	38.710	25.349	51.537	0.00	0.00
ATOM	7937	HD22	LEU	X	520	39.894	26.497	50.821	0.00	0.00
ATOM	7938	HD23	LEU	X	520	39.358	24.975	49.951	0.00	0.00
ATOM	7939	C	LEU	X	520	41.699	23.076	54.052	0.00	0.00
ATOM	7940	O	LEU	X	520	40.949	23.793	54.766	0.00	0.00
ATOM	7941	N	ARG	X	521	43.034	22.914	54.243	0.00	0.00
ATOM	7942	H	ARG	X	521	43.462	22.149	53.742	0.00	0.00
ATOM	7943	CA	ARG	X	521	43.911	23.569	55.201	0.00	0.00
ATOM	7944	HA	ARG	X	521	44.889	23.108	55.064	0.00	0.00

ATOM	7945	CB	ARG	X	521	44.094	25.033	54.783	0.00	0.00
ATOM	7946	HB2	ARG	X	521	44.145	25.000	53.695	0.00	0.00
ATOM	7947	HB3	ARG	X	521	43.269	25.683	55.075	0.00	0.00
ATOM	7948	CG	ARG	X	521	45.483	25.625	55.197	0.00	0.00
ATOM	7949	HG2	ARG	X	521	45.470	26.689	54.958	0.00	0.00
ATOM	7950	HG3	ARG	X	521	45.570	25.480	56.274	0.00	0.00
ATOM	7951	CD	ARG	X	521	46.640	25.073	54.355	0.00	0.00
ATOM	7952	HD2	ARG	X	521	46.816	24.037	54.647	0.00	0.00
ATOM	7953	HD3	ARG	X	521	46.413	25.135	53.291	0.00	0.00
ATOM	7954	NE	ARG	X	521	47.871	25.862	54.441	0.00	0.00
ATOM	7955	HE	ARG	X	521	48.010	26.561	55.155	0.00	0.00
ATOM	7956	CZ	ARG	X	521	48.910	25.734	53.597	0.00	0.00
ATOM	7957	NH1	ARG	X	521	48.753	24.873	52.624	0.00	0.00
ATOM	7958	HH11	ARG	X	521	47.955	24.253	52.639	0.00	0.00
ATOM	7959	HH12	ARG	X	521	49.319	24.842	51.788	0.00	0.00
ATOM	7960	NH2	ARG	X	521	49.936	26.502	53.723	0.00	0.00
ATOM	7961	HH21	ARG	X	521	50.009	27.164	54.482	0.00	0.00
ATOM	7962	HH22	ARG	X	521	50.793	26.284	53.235	0.00	0.00
ATOM	7963	C	ARG	X	521	43.426	23.376	56.638	0.00	0.00
ATOM	7964	O	ARG	X	521	43.335	24.363	57.324	0.00	0.00
ATOM	7965	N	ALA	X	522	42.846	22.204	56.926	0.00	0.00
ATOM	7966	H	ALA	X	522	42.988	21.435	56.288	0.00	0.00
ATOM	7967	CA	ALA	X	522	41.959	22.065	58.093	0.00	0.00
ATOM	7968	HA	ALA	X	522	41.120	22.749	57.966	0.00	0.00
ATOM	7969	CB	ALA	X	522	41.549	20.580	58.358	0.00	0.00
ATOM	7970	HB1	ALA	X	522	40.834	20.558	59.181	0.00	0.00
ATOM	7971	HB2	ALA	X	522	42.407	19.912	58.419	0.00	0.00
ATOM	7972	HB3	ALA	X	522	40.996	20.296	57.462	0.00	0.00
ATOM	7973	C	ALA	X	522	42.625	22.554	59.421	0.00	0.00
ATOM	7974	O	ALA	X	522	41.949	23.058	60.311	0.00	0.00
ATOM	7975	N	GLN	X	523	43.963	22.275	59.541	0.00	0.00
ATOM	7976	H	GLN	X	523	44.417	22.013	58.677	0.00	0.00
ATOM	7977	CA	GLN	X	523	44.516	22.274	60.884	0.00	0.00
ATOM	7978	HA	GLN	X	523	43.743	22.196	61.649	0.00	0.00
ATOM	7979	CB	GLN	X	523	45.419	21.026	61.132	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.060	20.898	60.260	0.00	0.00
ATOM	7981	HB3	GLN	X	523	45.959	21.227	62.058	0.00	0.00
ATOM	7982	CG	GLN	X	523	44.698	19.725	61.347	0.00	0.00
ATOM	7983	HG2	GLN	X	523	44.294	19.733	62.359	0.00	0.00
ATOM	7984	HG3	GLN	X	523	43.788	19.657	60.750	0.00	0.00
ATOM	7985	CD	GLN	X	523	45.483	18.404	61.194	0.00	0.00
ATOM	7986	OE1	GLN	X	523	45.163	17.484	60.414	0.00	0.00
ATOM	7987	NE2	GLN	X	523	46.567	18.226	61.912	0.00	0.00
ATOM	7988	HE21	GLN	X	523	47.061	17.358	61.760	0.00	0.00
ATOM	7989	HE22	GLN	X	523	46.723	18.962	62.585	0.00	0.00
ATOM	7990	C	GLN	X	523	45.391	23.533	61.152	0.00	0.00
ATOM	7991	O	GLN	X	523	45.337	24.026	62.315	0.00	0.00
ATOM	7992	N	ALA	X	524	46.081	24.028	60.123	0.00	0.00
ATOM	7993	H	ALA	X	524	46.006	23.597	59.212	0.00	0.00
ATOM	7994	CA	ALA	X	524	47.108	25.087	60.256	0.00	0.00
ATOM	7995	HA	ALA	X	524	47.996	24.719	60.769	0.00	0.00
ATOM	7996	CB	ALA	X	524	47.521	25.394	58.807	0.00	0.00
ATOM	7997	HB1	ALA	X	524	47.917	24.562	58.225	0.00	0.00
ATOM	7998	HB2	ALA	X	524	48.253	26.201	58.806	0.00	0.00
ATOM	7999	HB3	ALA	X	524	46.759	25.955	58.266	0.00	0.00
ATOM	8000	C	ALA	X	524	46.565	26.327	61.005	0.00	0.00
ATOM	8001	O	ALA	X	524	47.350	26.996	61.769	0.00	0.00
ATOM	8002	N	CYX	X	525	45.356	26.683	60.609	0.00	0.00
ATOM	8003	H	CYX	X	525	44.925	25.997	60.006	0.00	0.00
ATOM	8004	CA	CYX	X	525	44.842	27.976	60.840	0.00	0.00
ATOM	8005	HA	CYX	X	525	45.702	28.595	60.586	0.00	0.00
ATOM	8006	CB	CYX	X	525	43.732	28.319	59.809	0.00	0.00
ATOM	8007	HB2	CYX	X	525	42.803	27.813	60.071	0.00	0.00
ATOM	8008	HB3	CYX	X	525	43.668	29.407	59.852	0.00	0.00
ATOM	8009	SG	CYX	X	525	44.083	27.683	58.111	0.00	0.00
ATOM	8010	C	CYX	X	525	44.431	28.295	62.267	0.00	0.00
ATOM	8011	O	CYX	X	525	44.308	29.446	62.630	0.00	0.00

ATOM	8012	N	ALA	X	526	44.276	27.281	63.128	0.00	0.00
ATOM	8013	H	ALA	X	526	44.358	26.323	62.817	0.00	0.00
ATOM	8014	CA	ALA	X	526	44.064	27.502	64.578	0.00	0.00
ATOM	8015	HA	ALA	X	526	43.205	28.139	64.786	0.00	0.00
ATOM	8016	CB	ALA	X	526	43.766	26.185	65.283	0.00	0.00
ATOM	8017	HB1	ALA	X	526	43.506	26.398	66.320	0.00	0.00
ATOM	8018	HB2	ALA	X	526	44.659	25.565	65.356	0.00	0.00
ATOM	8019	HB3	ALA	X	526	43.000	25.533	64.863	0.00	0.00
ATOM	8020	C	ALA	X	526	45.185	28.302	65.172	0.00	0.00
ATOM	8021	O	ALA	X	526	44.966	29.106	66.032	0.00	0.00
ATOM	8022	N	PHE	X	527	46.386	28.178	64.669	0.00	0.00
ATOM	8023	H	PHE	X	527	46.444	27.598	63.844	0.00	0.00
ATOM	8024	CA	PHE	X	527	47.645	28.728	65.234	0.00	0.00
ATOM	8025	HA	PHE	X	527	47.827	28.338	66.235	0.00	0.00
ATOM	8026	CB	PHE	X	527	48.791	28.290	64.305	0.00	0.00
ATOM	8027	HB2	PHE	X	527	48.830	27.224	64.084	0.00	0.00
ATOM	8028	HB3	PHE	X	527	48.620	28.723	63.319	0.00	0.00
ATOM	8029	CG	PHE	X	527	50.222	28.788	64.697	0.00	0.00
ATOM	8030	CD1	PHE	X	527	50.909	28.178	65.748	0.00	0.00
ATOM	8031	HD1	PHE	X	527	50.502	27.331	66.281	0.00	0.00
ATOM	8032	CE1	PHE	X	527	52.228	28.616	66.041	0.00	0.00
ATOM	8033	HE1	PHE	X	527	52.817	28.137	66.809	0.00	0.00
ATOM	8034	CZ	PHE	X	527	52.779	29.724	65.395	0.00	0.00
ATOM	8035	HZ	PHE	X	527	53.714	30.106	65.778	0.00	0.00
ATOM	8036	CE2	PHE	X	527	52.067	30.388	64.377	0.00	0.00
ATOM	8037	HE2	PHE	X	527	52.572	31.217	63.902	0.00	0.00
ATOM	8038	CD2	PHE	X	527	50.885	29.820	63.912	0.00	0.00
ATOM	8039	HD2	PHE	X	527	50.468	30.208	62.994	0.00	0.00
ATOM	8040	C	PHE	X	527	47.499	30.278	65.379	0.00	0.00
ATOM	8041	O	PHE	X	527	47.702	30.791	66.467	0.00	0.00
ATOM	8042	N	TRP	X	528	47.159	30.880	64.171	0.00	0.00
ATOM	8043	H	TRP	X	528	46.855	30.368	63.355	0.00	0.00
ATOM	8044	CA	TRP	X	528	47.011	32.337	64.045	0.00	0.00
ATOM	8045	HA	TRP	X	528	47.992	32.750	64.277	0.00	0.00
ATOM	8046	CB	TRP	X	528	46.598	32.619	62.612	0.00	0.00
ATOM	8047	HB2	TRP	X	528	45.540	32.385	62.490	0.00	0.00
ATOM	8048	HB3	TRP	X	528	46.732	33.698	62.545	0.00	0.00
ATOM	8049	CG	TRP	X	528	47.382	31.969	61.522	0.00	0.00
ATOM	8050	CD1	TRP	X	528	46.944	31.118	60.576	0.00	0.00
ATOM	8051	HD1	TRP	X	528	45.923	30.765	60.565	0.00	0.00
ATOM	8052	NE1	TRP	X	528	48.100	30.695	59.900	0.00	0.00
ATOM	8053	HE1	TRP	X	528	48.064	30.113	59.076	0.00	0.00
ATOM	8054	CE2	TRP	X	528	49.240	31.357	60.224	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	50.563	31.382	59.770	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	50.875	30.767	58.939	0.00	0.00
ATOM	8057	CH2	TRP	X	528	51.452	32.276	60.376	0.00	0.00
ATOM	8058	HH2	TRP	X	528	52.463	32.342	60.002	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	51.090	33.066	61.507	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	51.705	33.867	61.890	0.00	0.00
ATOM	8061	CE3	TRP	X	528	49.745	33.100	61.861	0.00	0.00
ATOM	8062	HE3	TRP	X	528	49.439	33.738	62.677	0.00	0.00
ATOM	8063	CD2	TRP	X	528	48.791	32.177	61.325	0.00	0.00
ATOM	8064	C	TRP	X	528	45.892	32.864	64.972	0.00	0.00
ATOM	8065	O	TRP	X	528	45.946	34.025	65.403	0.00	0.00
ATOM	8066	N	ASN	X	529	44.866	32.071	65.280	0.00	0.00
ATOM	8067	H	ASN	X	529	44.863	31.148	64.869	0.00	0.00
ATOM	8068	CA	ASN	X	529	43.791	32.475	66.157	0.00	0.00
ATOM	8069	HA	ASN	X	529	43.648	33.536	65.952	0.00	0.00
ATOM	8070	CB	ASN	X	529	42.539	31.707	65.725	0.00	0.00
ATOM	8071	HB2	ASN	X	529	42.212	32.105	64.764	0.00	0.00
ATOM	8072	HB3	ASN	X	529	42.706	30.630	65.720	0.00	0.00
ATOM	8073	CG	ASN	X	529	41.412	31.919	66.742	0.00	0.00
ATOM	8074	OD1	ASN	X	529	41.474	31.285	67.773	0.00	0.00
ATOM	8075	ND2	ASN	X	529	40.484	32.862	66.512	0.00	0.00
ATOM	8076	HD21	ASN	X	529	39.807	33.036	67.241	0.00	0.00
ATOM	8077	HD22	ASN	X	529	40.700	33.506	65.765	0.00	0.00
ATOM	8078	C	ASN	X	529	44.095	32.206	67.634	0.00	0.00

ATOM	8079	O	ASN	X	529	43.946	33.032	68.482	0.00	0.00
ATOM	8080	N	ARG	X	530	44.520	30.997	67.976	0.00	0.00
ATOM	8081	H	ARG	X	530	44.722	30.297	67.276	0.00	0.00
ATOM	8082	CA	ARG	X	530	44.630	30.478	69.347	0.00	0.00
ATOM	8083	HA	ARG	X	530	43.761	30.689	69.969	0.00	0.00
ATOM	8084	CB	ARG	X	530	44.713	28.940	69.457	0.00	0.00
ATOM	8085	HB2	ARG	X	530	45.486	28.572	68.782	0.00	0.00
ATOM	8086	HB3	ARG	X	530	44.825	28.705	70.515	0.00	0.00
ATOM	8087	CG	ARG	X	530	43.494	28.280	68.831	0.00	0.00
ATOM	8088	HG2	ARG	X	530	43.401	28.558	67.781	0.00	0.00
ATOM	8089	HG3	ARG	X	530	43.760	27.232	68.698	0.00	0.00
ATOM	8090	CD	ARG	X	530	42.122	28.308	69.437	0.00	0.00
ATOM	8091	HD2	ARG	X	530	42.127	27.796	70.399	0.00	0.00
ATOM	8092	HD3	ARG	X	530	41.817	29.354	69.485	0.00	0.00
ATOM	8093	NE	ARG	X	530	41.112	27.727	68.440	0.00	0.00
ATOM	8094	HE	ARG	X	530	40.426	28.370	68.071	0.00	0.00
ATOM	8095	CZ	ARG	X	530	40.877	26.464	68.043	0.00	0.00
ATOM	8096	NH1	ARG	X	530	41.620	25.441	68.336	0.00	0.00
ATOM	8097	HH11	ARG	X	530	42.232	25.423	69.139	0.00	0.00
ATOM	8098	HH12	ARG	X	530	41.594	24.596	67.783	0.00	0.00
ATOM	8099	NH2	ARG	X	530	39.869	26.239	67.257	0.00	0.00
ATOM	8100	HH21	ARG	X	530	39.274	27.009	66.989	0.00	0.00
ATOM	8101	HH22	ARG	X	530	39.690	25.273	67.022	0.00	0.00
ATOM	8102	C	ARG	X	530	45.906	30.984	69.995	0.00	0.00
ATOM	8103	O	ARG	X	530	45.860	31.501	71.117	0.00	0.00
ATOM	8104	N	PHE	X	531	47.029	30.834	69.238	0.00	0.00
ATOM	8105	H	PHE	X	531	46.874	30.407	68.336	0.00	0.00
ATOM	8106	CA	PHE	X	531	48.352	30.867	69.818	0.00	0.00
ATOM	8107	HA	PHE	X	531	48.332	30.625	70.881	0.00	0.00
ATOM	8108	CB	PHE	X	531	49.233	29.789	69.167	0.00	0.00
ATOM	8109	HB2	PHE	X	531	48.770	28.812	69.305	0.00	0.00
ATOM	8110	HB3	PHE	X	531	49.281	29.887	68.082	0.00	0.00
ATOM	8111	CG	PHE	X	531	50.685	29.789	69.532	0.00	0.00
ATOM	8112	CD1	PHE	X	531	51.611	30.450	68.693	0.00	0.00
ATOM	8113	HD1	PHE	X	531	51.255	31.044	67.865	0.00	0.00
ATOM	8114	CE1	PHE	X	531	52.997	30.289	68.943	0.00	0.00
ATOM	8115	HE1	PHE	X	531	53.709	30.831	68.338	0.00	0.00
ATOM	8116	CZ	PHE	X	531	53.482	29.556	70.045	0.00	0.00
ATOM	8117	HZ	PHE	X	531	54.545	29.662	70.203	0.00	0.00
ATOM	8118	CE2	PHE	X	531	52.544	28.951	70.883	0.00	0.00
ATOM	8119	HE2	PHE	X	531	52.787	28.327	71.730	0.00	0.00
ATOM	8120	CD2	PHE	X	531	51.212	28.975	70.549	0.00	0.00
ATOM	8121	HD2	PHE	X	531	50.546	28.354	71.130	0.00	0.00
ATOM	8122	C	PHE	X	531	48.981	32.249	69.636	0.00	0.00
ATOM	8123	O	PHE	X	531	49.248	32.920	70.619	0.00	0.00
ATOM	8124	N	LEU	X	532	49.157	32.592	68.336	0.00	0.00
ATOM	8125	H	LEU	X	532	48.787	31.939	67.661	0.00	0.00
ATOM	8126	CA	LEU	X	532	49.935	33.788	67.819	0.00	0.00
ATOM	8127	HA	LEU	X	532	50.980	33.675	68.107	0.00	0.00
ATOM	8128	CB	LEU	X	532	49.795	33.893	66.286	0.00	0.00
ATOM	8129	HB2	LEU	X	532	49.934	32.851	65.998	0.00	0.00
ATOM	8130	HB3	LEU	X	532	48.763	34.088	65.995	0.00	0.00
ATOM	8131	CG	LEU	X	532	50.921	34.679	65.570	0.00	0.00
ATOM	8132	HG	LEU	X	532	50.978	34.306	64.547	0.00	0.00
ATOM	8133	CD1	LEU	X	532	50.629	36.245	65.626	0.00	0.00
ATOM	8134	HD11	LEU	X	532	51.205	36.827	64.907	0.00	0.00
ATOM	8135	HD12	LEU	X	532	50.776	36.576	66.654	0.00	0.00
ATOM	8136	HD13	LEU	X	532	49.587	36.405	65.349	0.00	0.00
ATOM	8137	CD2	LEU	X	532	52.349	34.532	66.073	0.00	0.00
ATOM	8138	HD21	LEU	X	532	52.990	35.108	65.405	0.00	0.00
ATOM	8139	HD22	LEU	X	532	52.396	34.957	67.076	0.00	0.00
ATOM	8140	HD23	LEU	X	532	52.673	33.492	66.086	0.00	0.00
ATOM	8141	C	LEU	X	532	49.651	35.137	68.621	0.00	0.00
ATOM	8142	O	LEU	X	532	50.625	35.714	69.108	0.00	0.00
ATOM	8143	N	PRO	X	533	48.399	35.508	68.871	0.00	0.00
ATOM	8144	CD	PRO	X	533	47.209	35.156	68.147	0.00	0.00
ATOM	8145	HD2	PRO	X	533	47.162	34.137	67.763	0.00	0.00

ATOM	8146	HD3	PRO	X	533	47.015	35.804	67.293	0.00	0.00
ATOM	8147	CG	PRO	X	533	46.054	35.273	69.237	0.00	0.00
ATOM	8148	HG2	PRO	X	533	46.070	34.378	69.859	0.00	0.00
ATOM	8149	HG3	PRO	X	533	45.085	35.427	68.763	0.00	0.00
ATOM	8150	CB	PRO	X	533	46.612	36.494	69.973	0.00	0.00
ATOM	8151	HB2	PRO	X	533	46.285	36.452	71.012	0.00	0.00
ATOM	8152	HB3	PRO	X	533	46.149	37.398	69.577	0.00	0.00
ATOM	8153	CA	PRO	X	533	48.099	36.554	69.820	0.00	0.00
ATOM	8154	HA	PRO	X	533	48.413	37.513	69.407	0.00	0.00
ATOM	8155	C	PRO	X	533	48.672	36.338	71.218	0.00	0.00
ATOM	8156	O	PRO	X	533	49.327	37.251	71.629	0.00	0.00
ATOM	8157	N	LYS	X	534	48.488	35.192	71.946	0.00	0.00
ATOM	8158	H	LYS	X	534	48.001	34.435	71.487	0.00	0.00
ATOM	8159	CA	LYS	X	534	49.099	34.987	73.262	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.602	35.719	73.899	0.00	0.00
ATOM	8161	CB	LYS	X	534	48.886	33.541	73.779	0.00	0.00
ATOM	8162	HB2	LYS	X	534	49.340	32.813	73.106	0.00	0.00
ATOM	8163	HB3	LYS	X	534	49.208	33.309	74.795	0.00	0.00
ATOM	8164	CG	LYS	X	534	47.418	32.995	73.867	0.00	0.00
ATOM	8165	HG2	LYS	X	534	46.911	33.424	74.731	0.00	0.00
ATOM	8166	HG3	LYS	X	534	46.867	33.485	73.064	0.00	0.00
ATOM	8167	CD	LYS	X	534	47.281	31.520	73.844	0.00	0.00
ATOM	8168	HD2	LYS	X	534	47.602	31.051	72.914	0.00	0.00
ATOM	8169	HD3	LYS	X	534	47.949	31.150	74.622	0.00	0.00
ATOM	8170	CE	LYS	X	534	45.967	30.837	74.151	0.00	0.00
ATOM	8171	HE2	LYS	X	534	45.621	31.140	75.139	0.00	0.00
ATOM	8172	HE3	LYS	X	534	45.305	31.249	73.389	0.00	0.00
ATOM	8173	NZ	LYS	X	534	46.170	29.363	74.241	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	45.233	28.992	74.310	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	46.666	28.953	73.462	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	46.771	29.040	74.985	0.00	0.00
ATOM	8177	C	LYS	X	534	50.612	35.270	73.223	0.00	0.00
ATOM	8178	O	LYS	X	534	51.156	35.949	74.164	0.00	0.00
ATOM	8179	N	LEU	X	535	51.238	34.971	72.118	0.00	0.00
ATOM	8180	H	LEU	X	535	50.651	34.737	71.330	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.696	35.035	71.942	0.00	0.00
ATOM	8182	HA	LEU	X	535	53.134	34.525	72.800	0.00	0.00
ATOM	8183	CB	LEU	X	535	53.188	34.328	70.655	0.00	0.00
ATOM	8184	HB2	LEU	X	535	52.984	33.258	70.683	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.571	34.762	69.868	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.615	34.557	70.122	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.755	35.583	69.781	0.00	0.00
ATOM	8188	CD1	LEU	X	535	55.622	34.308	71.294	0.00	0.00
ATOM	8189	HD11	LEU	X	535	56.625	34.273	70.870	0.00	0.00
ATOM	8190	HD12	LEU	X	535	55.403	33.296	71.633	0.00	0.00
ATOM	8191	HD13	LEU	X	535	55.523	35.116	72.019	0.00	0.00
ATOM	8192	CD2	LEU	X	535	54.934	33.694	68.908	0.00	0.00
ATOM	8193	HD21	LEU	X	535	54.080	33.709	68.230	0.00	0.00
ATOM	8194	HD22	LEU	X	535	55.777	34.114	68.359	0.00	0.00
ATOM	8195	HD23	LEU	X	535	55.199	32.655	69.101	0.00	0.00
ATOM	8196	C	LEU	X	535	53.123	36.472	71.906	0.00	0.00
ATOM	8197	O	LEU	X	535	53.961	36.938	72.755	0.00	0.00
ATOM	8198	N	LEU	X	536	52.446	37.238	71.032	0.00	0.00
ATOM	8199	H	LEU	X	536	51.668	36.930	70.466	0.00	0.00
ATOM	8200	CA	LEU	X	536	52.842	38.684	70.846	0.00	0.00
ATOM	8201	HA	LEU	X	536	53.930	38.746	70.856	0.00	0.00
ATOM	8202	CB	LEU	X	536	52.323	39.217	69.474	0.00	0.00
ATOM	8203	HB2	LEU	X	536	51.238	39.230	69.377	0.00	0.00
ATOM	8204	HB3	LEU	X	536	52.766	40.182	69.225	0.00	0.00
ATOM	8205	CG	LEU	X	536	52.838	38.327	68.373	0.00	0.00
ATOM	8206	HG	LEU	X	536	52.196	37.448	68.434	0.00	0.00
ATOM	8207	CD1	LEU	X	536	52.471	39.102	67.050	0.00	0.00
ATOM	8208	HD11	LEU	X	536	52.837	38.568	66.172	0.00	0.00
ATOM	8209	HD12	LEU	X	536	52.978	40.057	67.186	0.00	0.00
ATOM	8210	HD13	LEU	X	536	51.387	39.213	67.017	0.00	0.00
ATOM	8211	CD2	LEU	X	536	54.360	37.993	68.404	0.00	0.00
ATOM	8212	HD21	LEU	X	536	54.695	37.741	69.410	0.00	0.00

ATOM	8213	HD22	LEU	X	536	54.534	37.191	67.686	0.00	0.00
ATOM	8214	HD23	LEU	X	536	54.914	38.893	68.139	0.00	0.00
ATOM	8215	C	LEU	X	536	52.279	39.471	72.094	0.00	0.00
ATOM	8216	O	LEU	X	536	52.953	40.403	72.558	0.00	0.00
ATOM	8217	N	SER	X	537	51.137	39.022	72.768	0.00	0.00
ATOM	8218	H	SER	X	537	50.597	38.395	72.189	0.00	0.00
ATOM	8219	CA	SER	X	537	50.498	39.663	73.939	0.00	0.00
ATOM	8220	HA	SER	X	537	50.363	40.738	73.821	0.00	0.00
ATOM	8221	CB	SER	X	537	49.118	39.125	74.211	0.00	0.00
ATOM	8222	HB2	SER	X	537	49.242	38.050	74.346	0.00	0.00
ATOM	8223	HB3	SER	X	537	48.674	39.533	75.119	0.00	0.00
ATOM	8224	OG	SER	X	537	48.158	39.427	73.198	0.00	0.00
ATOM	8225	HG	SER	X	537	47.343	38.939	73.337	0.00	0.00
ATOM	8226	C	SER	X	537	51.392	39.479	75.192	0.00	0.00
ATOM	8227	O	SER	X	537	51.303	40.141	76.215	0.00	0.00
ATOM	8228	N	ALA	X	538	52.384	38.635	75.191	0.00	0.00
ATOM	8229	H	ALA	X	538	52.458	38.160	74.302	0.00	0.00
ATOM	8230	CA	ALA	X	538	53.370	38.281	76.235	0.00	0.00
ATOM	8231	HA	ALA	X	538	53.074	38.764	77.166	0.00	0.00
ATOM	8232	CB	ALA	X	538	53.254	36.781	76.444	0.00	0.00
ATOM	8233	HB1	ALA	X	538	53.337	36.146	75.562	0.00	0.00
ATOM	8234	HB2	ALA	X	538	52.251	36.719	76.865	0.00	0.00
ATOM	8235	HB3	ALA	X	538	54.028	36.403	77.113	0.00	0.00
ATOM	8236	C	ALA	X	538	54.778	38.750	75.880	0.00	0.00
ATOM	8237	O	ALA	X	538	55.686	38.492	76.740	0.00	0.00
ATOM	8238	N	THR	X	539	54.958	39.374	74.764	0.00	0.00
ATOM	8239	H	THR	X	539	54.228	39.425	74.067	0.00	0.00
ATOM	8240	CA	THR	X	539	56.267	39.708	74.224	0.00	0.00
ATOM	8241	HA	THR	X	539	56.942	39.252	74.949	0.00	0.00
ATOM	8242	CB	THR	X	539	56.447	39.128	72.810	0.00	0.00
ATOM	8243	HB	THR	X	539	55.590	39.414	72.200	0.00	0.00
ATOM	8244	CG2	THR	X	539	57.699	39.575	72.083	0.00	0.00
ATOM	8245	HG21	THR	X	539	57.672	40.664	72.041	0.00	0.00
ATOM	8246	HG22	THR	X	539	57.750	39.128	71.091	0.00	0.00
ATOM	8247	HG23	THR	X	539	58.627	39.378	72.620	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.552	37.706	72.914	0.00	0.00
ATOM	8249	HG1	THR	X	539	55.679	37.306	72.940	0.00	0.00
ATOM	8250	C	THR	X	539	56.504	41.237	74.395	0.00	0.00
ATOM	8251	O	THR	X	539	56.101	42.087	73.519	0.00	0.00
ATOM	8252	OXT	THR	X	539	56.977	41.694	75.431	0.00	0.00

END

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1B41 Production MD Frame 1800
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CRYST1	82.067	82.067	82.067	90.00	90.00	90.00	P 1			1
ATOM	1	N	ASP	X	1	30.173	46.999	6.712	0.00	0.00
ATOM	2	H1	ASP	X	1	30.750	46.316	6.241	0.00	0.00
ATOM	3	H2	ASP	X	1	29.648	47.608	6.101	0.00	0.00
ATOM	4	H3	ASP	X	1	29.457	46.420	7.126	0.00	0.00
ATOM	5	CA	ASP	X	1	31.046	47.768	7.680	0.00	0.00
ATOM	6	HA	ASP	X	1	31.923	47.223	8.029	0.00	0.00
ATOM	7	CB	ASP	X	1	31.550	49.026	6.962	0.00	0.00
ATOM	8	HB2	ASP	X	1	32.113	48.697	6.089	0.00	0.00
ATOM	9	HB3	ASP	X	1	30.658	49.566	6.646	0.00	0.00
ATOM	10	CG	ASP	X	1	32.486	49.779	7.879	0.00	0.00
ATOM	11	OD1	ASP	X	1	33.561	49.192	8.150	0.00	0.00
ATOM	12	OD2	ASP	X	1	32.119	50.899	8.359	0.00	0.00
ATOM	13	C	ASP	X	1	30.215	48.189	8.864	0.00	0.00
ATOM	14	O	ASP	X	1	30.613	47.978	10.045	0.00	0.00
ATOM	15	N	ALA	X	2	28.992	48.752	8.683	0.00	0.00
ATOM	16	H	ALA	X	2	28.686	48.829	7.724	0.00	0.00
ATOM	17	CA	ALA	X	2	28.133	49.227	9.761	0.00	0.00
ATOM	18	HA	ALA	X	2	28.668	49.991	10.326	0.00	0.00

ATOM	19	CB	ALA	X	2	26.919	49.788	8.971	0.00	0.00
ATOM	20	HB1	ALA	X	2	26.136	50.165	9.630	0.00	0.00
ATOM	21	HB2	ALA	X	2	26.453	49.093	8.272	0.00	0.00
ATOM	22	HB3	ALA	X	2	27.218	50.691	8.439	0.00	0.00
ATOM	23	C	ALA	X	2	27.704	48.130	10.757	0.00	0.00
ATOM	24	O	ALA	X	2	27.217	48.538	11.797	0.00	0.00
ATOM	25	N	GLU	X	3	27.856	46.876	10.518	0.00	0.00
ATOM	26	H	GLU	X	3	28.201	46.719	9.582	0.00	0.00
ATOM	27	CA	GLU	X	3	27.696	45.811	11.495	0.00	0.00
ATOM	28	HA	GLU	X	3	26.670	45.703	11.846	0.00	0.00
ATOM	29	CB	GLU	X	3	28.090	44.460	10.778	0.00	0.00
ATOM	30	HB2	GLU	X	3	29.078	44.610	10.343	0.00	0.00
ATOM	31	HB3	GLU	X	3	28.058	43.610	11.460	0.00	0.00
ATOM	32	CG	GLU	X	3	27.119	44.007	9.621	0.00	0.00
ATOM	33	HG2	GLU	X	3	27.366	42.987	9.325	0.00	0.00
ATOM	34	HG3	GLU	X	3	26.111	43.996	10.037	0.00	0.00
ATOM	35	CD	GLU	X	3	27.225	44.866	8.350	0.00	0.00
ATOM	36	OE1	GLU	X	3	28.317	45.398	8.083	0.00	0.00
ATOM	37	OE2	GLU	X	3	26.200	45.202	7.756	0.00	0.00
ATOM	38	C	GLU	X	3	28.534	45.786	12.750	0.00	0.00
ATOM	39	O	GLU	X	3	28.183	45.158	13.767	0.00	0.00
ATOM	40	N	LEU	X	4	29.655	46.504	12.797	0.00	0.00
ATOM	41	H	LEU	X	4	29.874	46.982	11.934	0.00	0.00
ATOM	42	CA	LEU	X	4	30.478	46.914	13.940	0.00	0.00
ATOM	43	HA	LEU	X	4	30.301	46.286	14.813	0.00	0.00
ATOM	44	CB	LEU	X	4	31.963	46.706	13.645	0.00	0.00
ATOM	45	HB2	LEU	X	4	32.166	47.204	12.698	0.00	0.00
ATOM	46	HB3	LEU	X	4	32.601	47.249	14.342	0.00	0.00
ATOM	47	CG	LEU	X	4	32.423	45.218	13.521	0.00	0.00
ATOM	48	HG	LEU	X	4	31.846	44.642	12.798	0.00	0.00
ATOM	49	CD1	LEU	X	4	33.800	45.179	12.886	0.00	0.00
ATOM	50	HD11	LEU	X	4	34.093	44.149	12.683	0.00	0.00
ATOM	51	HD12	LEU	X	4	34.471	45.814	13.464	0.00	0.00
ATOM	52	HD13	LEU	X	4	33.685	45.755	11.968	0.00	0.00
ATOM	53	CD2	LEU	X	4	32.397	44.561	14.897	0.00	0.00
ATOM	54	HD21	LEU	X	4	31.361	44.567	15.237	0.00	0.00
ATOM	55	HD22	LEU	X	4	32.735	43.525	14.903	0.00	0.00
ATOM	56	HD23	LEU	X	4	32.966	45.074	15.672	0.00	0.00
ATOM	57	C	LEU	X	4	30.143	48.233	14.535	0.00	0.00
ATOM	58	O	LEU	X	4	30.907	48.739	15.390	0.00	0.00
ATOM	59	N	LEU	X	5	29.080	48.899	14.122	0.00	0.00
ATOM	60	H	LEU	X	5	28.572	48.515	13.338	0.00	0.00
ATOM	61	CA	LEU	X	5	28.525	50.026	14.854	0.00	0.00
ATOM	62	HA	LEU	X	5	29.238	50.653	15.389	0.00	0.00
ATOM	63	CB	LEU	X	5	27.740	50.909	13.773	0.00	0.00
ATOM	64	HB2	LEU	X	5	28.469	51.141	12.996	0.00	0.00
ATOM	65	HB3	LEU	X	5	26.952	50.267	13.378	0.00	0.00
ATOM	66	CG	LEU	X	5	27.122	52.262	14.294	0.00	0.00
ATOM	67	HG	LEU	X	5	26.367	52.069	15.056	0.00	0.00
ATOM	68	CD1	LEU	X	5	28.267	53.252	14.729	0.00	0.00
ATOM	69	HD11	LEU	X	5	27.895	54.182	15.160	0.00	0.00
ATOM	70	HD12	LEU	X	5	28.751	53.535	13.794	0.00	0.00
ATOM	71	HD13	LEU	X	5	28.995	52.781	15.389	0.00	0.00
ATOM	72	CD2	LEU	X	5	26.328	52.844	13.107	0.00	0.00
ATOM	73	HD21	LEU	X	5	25.560	53.478	13.550	0.00	0.00
ATOM	74	HD22	LEU	X	5	27.008	53.207	12.336	0.00	0.00
ATOM	75	HD23	LEU	X	5	25.739	52.005	12.737	0.00	0.00
ATOM	76	C	LEU	X	5	27.600	49.483	15.964	0.00	0.00
ATOM	77	O	LEU	X	5	26.562	48.822	15.674	0.00	0.00
ATOM	78	N	VAL	X	6	27.795	49.864	17.222	0.00	0.00
ATOM	79	H	VAL	X	6	28.659	50.362	17.381	0.00	0.00
ATOM	80	CA	VAL	X	6	27.104	49.384	18.389	0.00	0.00
ATOM	81	HA	VAL	X	6	26.230	48.793	18.115	0.00	0.00
ATOM	82	CB	VAL	X	6	28.075	48.567	19.211	0.00	0.00
ATOM	83	HB	VAL	X	6	28.969	49.186	19.283	0.00	0.00
ATOM	84	CG1	VAL	X	6	27.477	48.127	20.593	0.00	0.00
ATOM	85	HG11	VAL	X	6	27.627	48.890	21.357	0.00	0.00

ATOM	86	HG12	VAL	X	6	26.438	47.857	20.406	0.00	0.00
ATOM	87	HG13	VAL	X	6	27.903	47.150	20.821	0.00	0.00
ATOM	88	CG2	VAL	X	6	28.483	47.299	18.383	0.00	0.00
ATOM	89	HG21	VAL	X	6	29.041	46.679	19.085	0.00	0.00
ATOM	90	HG22	VAL	X	6	28.926	47.368	17.390	0.00	0.00
ATOM	91	HG23	VAL	X	6	27.588	46.677	18.411	0.00	0.00
ATOM	92	C	VAL	X	6	26.646	50.568	19.222	0.00	0.00
ATOM	93	O	VAL	X	6	27.482	51.314	19.766	0.00	0.00
ATOM	94	N	THR	X	7	25.301	50.539	19.387	0.00	0.00
ATOM	95	H	THR	X	7	24.787	49.730	19.069	0.00	0.00
ATOM	96	CA	THR	X	7	24.595	51.651	20.099	0.00	0.00
ATOM	97	HA	THR	X	7	25.255	52.518	20.078	0.00	0.00
ATOM	98	CB	THR	X	7	23.259	52.229	19.445	0.00	0.00
ATOM	99	HB	THR	X	7	22.446	51.503	19.432	0.00	0.00
ATOM	100	CG2	THR	X	7	22.832	53.493	20.077	0.00	0.00
ATOM	101	HG21	THR	X	7	22.407	53.198	21.037	0.00	0.00
ATOM	102	HG22	THR	X	7	22.076	53.988	19.467	0.00	0.00
ATOM	103	HG23	THR	X	7	23.651	54.180	20.292	0.00	0.00
ATOM	104	OG1	THR	X	7	23.548	52.420	18.123	0.00	0.00
ATOM	105	HG1	THR	X	7	23.605	51.549	17.723	0.00	0.00
ATOM	106	C	THR	X	7	24.344	51.296	21.580	0.00	0.00
ATOM	107	O	THR	X	7	23.836	50.185	21.902	0.00	0.00
ATOM	108	N	VAL	X	8	24.819	52.252	22.452	0.00	0.00
ATOM	109	H	VAL	X	8	25.300	53.077	22.123	0.00	0.00
ATOM	110	CA	VAL	X	8	24.544	52.229	23.870	0.00	0.00
ATOM	111	HA	VAL	X	8	23.971	51.319	24.050	0.00	0.00
ATOM	112	CB	VAL	X	8	25.945	52.034	24.511	0.00	0.00
ATOM	113	HB	VAL	X	8	25.817	52.250	25.572	0.00	0.00
ATOM	114	CG1	VAL	X	8	26.469	50.558	24.306	0.00	0.00
ATOM	115	HG11	VAL	X	8	27.484	50.537	24.703	0.00	0.00
ATOM	116	HG12	VAL	X	8	25.914	49.749	24.782	0.00	0.00
ATOM	117	HG13	VAL	X	8	26.515	50.286	23.252	0.00	0.00
ATOM	118	CG2	VAL	X	8	26.999	53.137	24.146	0.00	0.00
ATOM	119	HG21	VAL	X	8	27.362	53.097	23.118	0.00	0.00
ATOM	120	HG22	VAL	X	8	27.850	53.059	24.823	0.00	0.00
ATOM	121	HG23	VAL	X	8	26.433	54.022	24.436	0.00	0.00
ATOM	122	C	VAL	X	8	23.794	53.419	24.388	0.00	0.00
ATOM	123	O	VAL	X	8	23.464	54.269	23.603	0.00	0.00
ATOM	124	N	ARG	X	9	23.590	53.601	25.681	0.00	0.00
ATOM	125	H	ARG	X	9	23.884	52.839	26.274	0.00	0.00
ATOM	126	CA	ARG	X	9	22.711	54.615	26.271	0.00	0.00
ATOM	127	HA	ARG	X	9	21.672	54.643	25.940	0.00	0.00
ATOM	128	CB	ARG	X	9	22.609	54.302	27.767	0.00	0.00
ATOM	129	HB2	ARG	X	9	22.363	53.255	27.942	0.00	0.00
ATOM	130	HB3	ARG	X	9	23.603	54.462	28.185	0.00	0.00
ATOM	131	CG	ARG	X	9	21.662	55.263	28.500	0.00	0.00
ATOM	132	HG2	ARG	X	9	22.106	56.256	28.574	0.00	0.00
ATOM	133	HG3	ARG	X	9	20.748	55.450	27.937	0.00	0.00
ATOM	134	CD	ARG	X	9	21.489	54.723	29.873	0.00	0.00
ATOM	135	HD2	ARG	X	9	21.364	53.640	29.879	0.00	0.00
ATOM	136	HD3	ARG	X	9	22.280	55.025	30.559	0.00	0.00
ATOM	137	NE	ARG	X	9	20.253	55.359	30.408	0.00	0.00
ATOM	138	HE	ARG	X	9	19.755	55.965	29.771	0.00	0.00
ATOM	139	CZ	ARG	X	9	19.671	55.421	31.571	0.00	0.00
ATOM	140	NH1	ARG	X	9	20.206	54.840	32.619	0.00	0.00
ATOM	141	HH11	ARG	X	9	21.019	54.250	32.516	0.00	0.00
ATOM	142	HH12	ARG	X	9	19.872	55.025	33.554	0.00	0.00
ATOM	143	NH2	ARG	X	9	18.579	56.073	31.680	0.00	0.00
ATOM	144	HH21	ARG	X	9	18.069	56.539	30.943	0.00	0.00
ATOM	145	HH22	ARG	X	9	18.004	56.039	32.510	0.00	0.00
ATOM	146	C	ARG	X	9	23.315	56.005	26.020	0.00	0.00
ATOM	147	O	ARG	X	9	22.580	56.950	25.686	0.00	0.00
ATOM	148	N	GLY	X	10	24.597	56.124	26.180	0.00	0.00
ATOM	149	H	GLY	X	10	25.062	55.318	26.573	0.00	0.00
ATOM	150	CA	GLY	X	10	25.356	57.377	26.082	0.00	0.00
ATOM	151	HA2	GLY	X	10	24.964	58.223	26.646	0.00	0.00
ATOM	152	HA3	GLY	X	10	26.331	57.126	26.498	0.00	0.00

ATOM	153	C	GLY	X	10	25.564	57.786	24.571	0.00	0.00
ATOM	154	O	GLY	X	10	25.792	58.983	24.330	0.00	0.00
ATOM	155	N	GLY	X	11	25.475	56.864	23.595	0.00	0.00
ATOM	156	H	GLY	X	11	25.178	55.911	23.754	0.00	0.00
ATOM	157	CA	GLY	X	11	25.702	57.160	22.218	0.00	0.00
ATOM	158	HA2	GLY	X	11	24.785	57.645	21.880	0.00	0.00
ATOM	159	HA3	GLY	X	11	26.422	57.974	22.131	0.00	0.00
ATOM	160	C	GLY	X	11	26.108	55.906	21.384	0.00	0.00
ATOM	161	O	GLY	X	11	25.940	54.793	21.849	0.00	0.00
ATOM	162	N	ARG	X	12	26.691	56.183	20.243	0.00	0.00
ATOM	163	H	ARG	X	12	26.940	57.106	19.917	0.00	0.00
ATOM	164	CA	ARG	X	12	27.133	55.103	19.337	0.00	0.00
ATOM	165	HA	ARG	X	12	26.612	54.180	19.591	0.00	0.00
ATOM	166	CB	ARG	X	12	26.745	55.461	17.930	0.00	0.00
ATOM	167	HB2	ARG	X	12	27.136	56.451	17.696	0.00	0.00
ATOM	168	HB3	ARG	X	12	27.167	54.743	17.227	0.00	0.00
ATOM	169	CG	ARG	X	12	25.210	55.428	17.715	0.00	0.00
ATOM	170	HG2	ARG	X	12	24.993	54.404	18.019	0.00	0.00
ATOM	171	HG3	ARG	X	12	24.646	56.129	18.330	0.00	0.00
ATOM	172	CD	ARG	X	12	24.902	55.668	16.190	0.00	0.00
ATOM	173	HD2	ARG	X	12	24.834	56.750	16.082	0.00	0.00
ATOM	174	HD3	ARG	X	12	25.733	55.253	15.619	0.00	0.00
ATOM	175	NE	ARG	X	12	23.686	54.869	15.849	0.00	0.00
ATOM	176	HE	ARG	X	12	23.363	54.202	16.535	0.00	0.00
ATOM	177	CZ	ARG	X	12	23.043	54.760	14.671	0.00	0.00
ATOM	178	NH1	ARG	X	12	23.321	55.586	13.686	0.00	0.00
ATOM	179	HH11	ARG	X	12	24.001	56.331	13.726	0.00	0.00
ATOM	180	HH12	ARG	X	12	22.779	55.595	12.834	0.00	0.00
ATOM	181	NH2	ARG	X	12	22.032	53.881	14.547	0.00	0.00
ATOM	182	HH21	ARG	X	12	21.863	53.242	15.310	0.00	0.00
ATOM	183	HH22	ARG	X	12	21.596	53.845	13.636	0.00	0.00
ATOM	184	C	ARG	X	12	28.615	54.794	19.502	0.00	0.00
ATOM	185	O	ARG	X	12	29.403	55.707	19.862	0.00	0.00
ATOM	186	N	LEU	X	13	29.075	53.537	19.245	0.00	0.00
ATOM	187	H	LEU	X	13	28.332	52.884	19.043	0.00	0.00
ATOM	188	CA	LEU	X	13	30.470	53.015	19.309	0.00	0.00
ATOM	189	HA	LEU	X	13	31.158	53.858	19.369	0.00	0.00
ATOM	190	CB	LEU	X	13	30.618	52.188	20.628	0.00	0.00
ATOM	191	HB2	LEU	X	13	29.876	51.389	20.628	0.00	0.00
ATOM	192	HB3	LEU	X	13	31.523	51.594	20.504	0.00	0.00
ATOM	193	CG	LEU	X	13	30.544	52.969	21.958	0.00	0.00
ATOM	194	HG	LEU	X	13	29.787	53.753	21.930	0.00	0.00
ATOM	195	CD1	LEU	X	13	30.254	51.983	23.085	0.00	0.00
ATOM	196	HD11	LEU	X	13	31.189	51.427	23.158	0.00	0.00
ATOM	197	HD12	LEU	X	13	29.396	51.322	22.966	0.00	0.00
ATOM	198	HD13	LEU	X	13	30.190	52.622	23.965	0.00	0.00
ATOM	199	CD2	LEU	X	13	31.809	53.814	22.230	0.00	0.00
ATOM	200	HD21	LEU	X	13	31.685	54.305	23.196	0.00	0.00
ATOM	201	HD22	LEU	X	13	32.628	53.099	22.312	0.00	0.00
ATOM	202	HD23	LEU	X	13	31.974	54.508	21.406	0.00	0.00
ATOM	203	C	LEU	X	13	30.876	52.145	18.148	0.00	0.00
ATOM	204	O	LEU	X	13	29.992	51.375	17.727	0.00	0.00
ATOM	205	N	ARG	X	14	32.114	52.204	17.655	0.00	0.00
ATOM	206	H	ARG	X	14	32.777	52.873	18.020	0.00	0.00
ATOM	207	CA	ARG	X	14	32.550	51.311	16.518	0.00	0.00
ATOM	208	HA	ARG	X	14	31.702	50.797	16.064	0.00	0.00
ATOM	209	CB	ARG	X	14	33.131	52.306	15.479	0.00	0.00
ATOM	210	HB2	ARG	X	14	32.386	53.100	15.452	0.00	0.00
ATOM	211	HB3	ARG	X	14	34.109	52.665	15.799	0.00	0.00
ATOM	212	CG	ARG	X	14	33.277	51.689	14.065	0.00	0.00
ATOM	213	HG2	ARG	X	14	33.707	50.690	14.129	0.00	0.00
ATOM	214	HG3	ARG	X	14	32.255	51.532	13.720	0.00	0.00
ATOM	215	CD	ARG	X	14	34.165	52.563	13.084	0.00	0.00
ATOM	216	HD2	ARG	X	14	33.915	53.612	13.242	0.00	0.00
ATOM	217	HD3	ARG	X	14	35.132	52.441	13.571	0.00	0.00
ATOM	218	NE	ARG	X	14	34.029	52.072	11.683	0.00	0.00
ATOM	219	HE	ARG	X	14	33.418	51.306	11.437	0.00	0.00

ATOM	220	CZ	ARG	X	14	34.538	52.680	10.646	0.00	0.00
ATOM	221	NH1	ARG	X	14	35.243	53.793	10.726	0.00	0.00
ATOM	222	HH11	ARG	X	14	35.558	54.245	11.572	0.00	0.00
ATOM	223	HH12	ARG	X	14	35.493	54.211	9.841	0.00	0.00
ATOM	224	NH2	ARG	X	14	34.489	52.102	9.467	0.00	0.00
ATOM	225	HH21	ARG	X	14	33.823	51.363	9.296	0.00	0.00
ATOM	226	HH22	ARG	X	14	34.736	52.688	8.683	0.00	0.00
ATOM	227	C	ARG	X	14	33.645	50.398	17.116	0.00	0.00
ATOM	228	O	ARG	X	14	34.533	50.904	17.807	0.00	0.00
ATOM	229	N	GLY	X	15	33.536	49.102	16.815	0.00	0.00
ATOM	230	H	GLY	X	15	32.715	48.784	16.319	0.00	0.00
ATOM	231	CA	GLY	X	15	34.465	47.958	17.155	0.00	0.00
ATOM	232	HA2	GLY	X	15	34.942	48.114	18.123	0.00	0.00
ATOM	233	HA3	GLY	X	15	33.947	47.016	17.339	0.00	0.00
ATOM	234	C	GLY	X	15	35.515	47.646	16.103	0.00	0.00
ATOM	235	O	GLY	X	15	35.657	48.225	14.991	0.00	0.00
ATOM	236	N	ILE	X	16	36.116	46.460	16.309	0.00	0.00
ATOM	237	H	ILE	X	16	36.081	45.965	17.189	0.00	0.00
ATOM	238	CA	ILE	X	16	37.121	45.781	15.338	0.00	0.00
ATOM	239	HA	ILE	X	16	36.979	46.282	14.380	0.00	0.00
ATOM	240	CB	ILE	X	16	38.588	46.014	15.795	0.00	0.00
ATOM	241	HB	ILE	X	16	39.090	45.414	15.036	0.00	0.00
ATOM	242	CG2	ILE	X	16	38.931	47.487	15.537	0.00	0.00
ATOM	243	HG21	ILE	X	16	40.011	47.634	15.574	0.00	0.00
ATOM	244	HG22	ILE	X	16	38.541	48.187	16.276	0.00	0.00
ATOM	245	HG23	ILE	X	16	38.574	47.862	14.578	0.00	0.00
ATOM	246	CG1	ILE	X	16	39.024	45.503	17.130	0.00	0.00
ATOM	247	HG12	ILE	X	16	38.350	45.910	17.884	0.00	0.00
ATOM	248	HG13	ILE	X	16	38.814	44.433	17.135	0.00	0.00
ATOM	249	CD1	ILE	X	16	40.454	45.851	17.445	0.00	0.00
ATOM	250	HD11	ILE	X	16	40.526	46.914	17.673	0.00	0.00
ATOM	251	HD12	ILE	X	16	41.115	45.582	16.621	0.00	0.00
ATOM	252	HD13	ILE	X	16	40.860	45.321	18.307	0.00	0.00
ATOM	253	C	ILE	X	16	36.828	44.311	15.262	0.00	0.00
ATOM	254	O	ILE	X	16	36.346	43.670	16.211	0.00	0.00
ATOM	255	N	ARG	X	17	37.170	43.676	14.162	0.00	0.00
ATOM	256	H	ARG	X	17	37.593	44.222	13.425	0.00	0.00
ATOM	257	CA	ARG	X	17	37.138	42.221	13.949	0.00	0.00
ATOM	258	HA	ARG	X	17	36.352	41.813	14.584	0.00	0.00
ATOM	259	CB	ARG	X	17	36.914	41.906	12.434	0.00	0.00
ATOM	260	HB2	ARG	X	17	36.180	42.546	11.943	0.00	0.00
ATOM	261	HB3	ARG	X	17	37.860	42.029	11.907	0.00	0.00
ATOM	262	CG	ARG	X	17	36.523	40.456	12.168	0.00	0.00
ATOM	263	HG2	ARG	X	17	37.158	39.697	12.625	0.00	0.00
ATOM	264	HG3	ARG	X	17	35.536	40.296	12.601	0.00	0.00
ATOM	265	CD	ARG	X	17	36.350	40.151	10.677	0.00	0.00
ATOM	266	HD2	ARG	X	17	35.578	40.826	10.307	0.00	0.00
ATOM	267	HD3	ARG	X	17	37.186	40.298	9.992	0.00	0.00
ATOM	268	NE	ARG	X	17	35.908	38.796	10.418	0.00	0.00
ATOM	269	HE	ARG	X	17	34.969	38.602	10.102	0.00	0.00
ATOM	270	CZ	ARG	X	17	36.733	37.807	10.129	0.00	0.00
ATOM	271	NH1	ARG	X	17	38.071	37.802	10.341	0.00	0.00
ATOM	272	HH11	ARG	X	17	38.447	38.636	10.769	0.00	0.00
ATOM	273	HH12	ARG	X	17	38.666	37.070	9.980	0.00	0.00
ATOM	274	NH2	ARG	X	17	36.225	36.716	9.594	0.00	0.00
ATOM	275	HH21	ARG	X	17	35.226	36.600	9.501	0.00	0.00
ATOM	276	HH22	ARG	X	17	36.876	35.954	9.469	0.00	0.00
ATOM	277	C	ARG	X	17	38.512	41.602	14.439	0.00	0.00
ATOM	278	O	ARG	X	17	39.575	42.164	14.192	0.00	0.00
ATOM	279	N	LEU	X	18	38.517	40.424	15.106	0.00	0.00
ATOM	280	H	LEU	X	18	37.649	39.943	15.292	0.00	0.00
ATOM	281	CA	LEU	X	18	39.687	39.681	15.600	0.00	0.00
ATOM	282	HA	LEU	X	18	40.568	40.182	15.199	0.00	0.00
ATOM	283	CB	LEU	X	18	39.788	39.627	17.123	0.00	0.00
ATOM	284	HB2	LEU	X	18	38.892	39.068	17.390	0.00	0.00
ATOM	285	HB3	LEU	X	18	40.625	38.942	17.261	0.00	0.00
ATOM	286	CG	LEU	X	18	39.857	40.904	17.955	0.00	0.00

ATOM	287	HG	LEU	X	18	38.946	41.473	17.768	0.00	0.00
ATOM	288	CD1	LEU	X	18	40.023	40.696	19.443	0.00	0.00
ATOM	289	HD11	LEU	X	18	40.156	41.592	20.049	0.00	0.00
ATOM	290	HD12	LEU	X	18	40.876	40.044	19.633	0.00	0.00
ATOM	291	HD13	LEU	X	18	39.162	40.151	19.830	0.00	0.00
ATOM	292	CD2	LEU	X	18	41.082	41.805	17.444	0.00	0.00
ATOM	293	HD21	LEU	X	18	41.205	42.699	18.056	0.00	0.00
ATOM	294	HD22	LEU	X	18	42.058	41.319	17.453	0.00	0.00
ATOM	295	HD23	LEU	X	18	40.814	42.048	16.416	0.00	0.00
ATOM	296	C	LEU	X	18	39.590	38.286	14.978	0.00	0.00
ATOM	297	O	LEU	X	18	38.518	37.644	14.931	0.00	0.00
ATOM	298	N	LYS	X	19	40.761	37.769	14.604	0.00	0.00
ATOM	299	H	LYS	X	19	41.565	38.326	14.856	0.00	0.00
ATOM	300	CA	LYS	X	19	41.060	36.435	14.131	0.00	0.00
ATOM	301	HA	LYS	X	19	40.172	36.108	13.590	0.00	0.00
ATOM	302	CB	LYS	X	19	42.187	36.565	13.102	0.00	0.00
ATOM	303	HB2	LYS	X	19	43.080	36.894	13.632	0.00	0.00
ATOM	304	HB3	LYS	X	19	42.468	35.561	12.784	0.00	0.00
ATOM	305	CG	LYS	X	19	41.752	37.312	11.828	0.00	0.00
ATOM	306	HG2	LYS	X	19	40.797	36.943	11.452	0.00	0.00
ATOM	307	HG3	LYS	X	19	41.602	38.373	12.029	0.00	0.00
ATOM	308	CD	LYS	X	19	42.884	37.190	10.742	0.00	0.00
ATOM	309	HD2	LYS	X	19	43.820	37.362	11.273	0.00	0.00
ATOM	310	HD3	LYS	X	19	42.779	36.148	10.439	0.00	0.00
ATOM	311	CE	LYS	X	19	42.789	38.181	9.571	0.00	0.00
ATOM	312	HE2	LYS	X	19	43.540	37.921	8.824	0.00	0.00
ATOM	313	HE3	LYS	X	19	41.876	38.090	8.982	0.00	0.00
ATOM	314	NZ	LYS	X	19	43.008	39.555	10.022	0.00	0.00
ATOM	315	HZ1	LYS	X	19	42.581	39.826	10.896	0.00	0.00
ATOM	316	HZ2	LYS	X	19	44.004	39.720	10.010	0.00	0.00
ATOM	317	HZ3	LYS	X	19	42.591	40.195	9.361	0.00	0.00
ATOM	318	C	LYS	X	19	41.453	35.565	15.364	0.00	0.00
ATOM	319	O	LYS	X	19	41.788	36.127	16.454	0.00	0.00
ATOM	320	N	THR	X	20	41.613	34.203	15.099	0.00	0.00
ATOM	321	H	THR	X	20	41.287	33.862	14.206	0.00	0.00
ATOM	322	CA	THR	X	20	41.823	33.250	16.097	0.00	0.00
ATOM	323	HA	THR	X	20	42.824	33.290	16.527	0.00	0.00
ATOM	324	CB	THR	X	20	40.856	33.274	17.287	0.00	0.00
ATOM	325	HB	THR	X	20	40.591	32.225	17.425	0.00	0.00
ATOM	326	CG2	THR	X	20	41.562	33.663	18.554	0.00	0.00
ATOM	327	HG21	THR	X	20	42.352	32.941	18.759	0.00	0.00
ATOM	328	HG22	THR	X	20	40.848	33.537	19.368	0.00	0.00
ATOM	329	HG23	THR	X	20	41.893	34.702	18.532	0.00	0.00
ATOM	330	OG1	THR	X	20	39.749	34.008	17.063	0.00	0.00
ATOM	331	HG1	THR	X	20	39.197	33.437	16.524	0.00	0.00
ATOM	332	C	THR	X	20	41.860	31.841	15.458	0.00	0.00
ATOM	333	O	THR	X	20	41.392	31.750	14.368	0.00	0.00
ATOM	334	N	PRO	X	21	42.415	30.734	16.003	0.00	0.00
ATOM	335	CD	PRO	X	21	43.171	30.716	17.245	0.00	0.00
ATOM	336	HD2	PRO	X	21	42.477	30.461	18.045	0.00	0.00
ATOM	337	HD3	PRO	X	21	43.746	31.628	17.405	0.00	0.00
ATOM	338	CG	PRO	X	21	44.109	29.526	17.203	0.00	0.00
ATOM	339	HG2	PRO	X	21	44.264	28.989	18.139	0.00	0.00
ATOM	340	HG3	PRO	X	21	44.991	29.717	16.592	0.00	0.00
ATOM	341	CB	PRO	X	21	43.231	28.584	16.293	0.00	0.00
ATOM	342	HB2	PRO	X	21	42.552	28.046	16.956	0.00	0.00
ATOM	343	HB3	PRO	X	21	43.911	27.862	15.841	0.00	0.00
ATOM	344	CA	PRO	X	21	42.511	29.486	15.358	0.00	0.00
ATOM	345	HA	PRO	X	21	43.160	29.578	14.487	0.00	0.00
ATOM	346	C	PRO	X	21	41.213	28.872	14.942	0.00	0.00
ATOM	347	O	PRO	X	21	41.112	28.461	13.765	0.00	0.00
ATOM	348	N	GLY	X	22	40.282	28.832	15.810	0.00	0.00
ATOM	349	H	GLY	X	22	40.447	29.316	16.681	0.00	0.00
ATOM	350	CA	GLY	X	22	38.956	28.124	15.680	0.00	0.00
ATOM	351	HA2	GLY	X	22	39.156	27.281	15.018	0.00	0.00
ATOM	352	HA3	GLY	X	22	38.594	27.915	16.687	0.00	0.00
ATOM	353	C	GLY	X	22	37.869	28.979	14.940	0.00	0.00

ATOM	354	O	GLY	X	22	36.690	28.679	14.878	0.00	0.00
ATOM	355	N	GLY	X	23	38.327	30.095	14.371	0.00	0.00
ATOM	356	H	GLY	X	23	39.298	30.307	14.554	0.00	0.00
ATOM	357	CA	GLY	X	23	37.486	31.098	13.667	0.00	0.00
ATOM	358	HA2	GLY	X	23	37.968	31.334	12.718	0.00	0.00
ATOM	359	HA3	GLY	X	23	36.471	30.755	13.467	0.00	0.00
ATOM	360	C	GLY	X	23	37.475	32.472	14.410	0.00	0.00
ATOM	361	O	GLY	X	23	38.188	32.647	15.459	0.00	0.00
ATOM	362	N	PRO	X	24	36.657	33.467	13.936	0.00	0.00
ATOM	363	CD	PRO	X	24	35.795	33.389	12.777	0.00	0.00
ATOM	364	HD2	PRO	X	24	34.959	32.696	12.871	0.00	0.00
ATOM	365	HD3	PRO	X	24	36.387	32.964	11.967	0.00	0.00
ATOM	366	CG	PRO	X	24	35.325	34.747	12.413	0.00	0.00
ATOM	367	HG2	PRO	X	24	34.314	34.922	12.781	0.00	0.00
ATOM	368	HG3	PRO	X	24	35.261	34.833	11.328	0.00	0.00
ATOM	369	CB	PRO	X	24	36.433	35.622	13.066	0.00	0.00
ATOM	370	HB2	PRO	X	24	36.074	36.637	13.241	0.00	0.00
ATOM	371	HB3	PRO	X	24	37.313	35.681	12.427	0.00	0.00
ATOM	372	CA	PRO	X	24	36.781	34.893	14.342	0.00	0.00
ATOM	373	HA	PRO	X	24	37.788	35.067	14.722	0.00	0.00
ATOM	374	C	PRO	X	24	35.880	35.308	15.521	0.00	0.00
ATOM	375	O	PRO	X	24	34.916	34.610	15.856	0.00	0.00
ATOM	376	N	VAL	X	25	36.231	36.452	16.149	0.00	0.00
ATOM	377	H	VAL	X	25	37.028	36.951	15.783	0.00	0.00
ATOM	378	CA	VAL	X	25	35.462	37.124	17.215	0.00	0.00
ATOM	379	HA	VAL	X	25	34.399	36.891	17.150	0.00	0.00
ATOM	380	CB	VAL	X	25	36.017	36.739	18.558	0.00	0.00
ATOM	381	HB	VAL	X	25	35.442	37.322	19.278	0.00	0.00
ATOM	382	CG1	VAL	X	25	35.654	35.275	18.843	0.00	0.00
ATOM	383	HG11	VAL	X	25	35.684	35.093	19.917	0.00	0.00
ATOM	384	HG12	VAL	X	25	34.631	34.997	18.588	0.00	0.00
ATOM	385	HG13	VAL	X	25	36.362	34.592	18.374	0.00	0.00
ATOM	386	CG2	VAL	X	25	37.574	36.843	18.695	0.00	0.00
ATOM	387	HG21	VAL	X	25	37.861	37.892	18.769	0.00	0.00
ATOM	388	HG22	VAL	X	25	37.980	36.359	17.806	0.00	0.00
ATOM	389	HG23	VAL	X	25	37.974	36.360	19.587	0.00	0.00
ATOM	390	C	VAL	X	25	35.609	38.668	16.963	0.00	0.00
ATOM	391	O	VAL	X	25	36.205	39.085	16.006	0.00	0.00
ATOM	392	N	SER	X	26	35.141	39.480	17.867	0.00	0.00
ATOM	393	H	SER	X	26	34.810	39.044	18.716	0.00	0.00
ATOM	394	CA	SER	X	26	35.055	40.968	17.642	0.00	0.00
ATOM	395	HA	SER	X	26	35.926	41.312	17.084	0.00	0.00
ATOM	396	CB	SER	X	26	33.762	41.418	16.997	0.00	0.00
ATOM	397	HB2	SER	X	26	33.841	42.488	16.806	0.00	0.00
ATOM	398	HB3	SER	X	26	33.757	40.861	16.060	0.00	0.00
ATOM	399	OG	SER	X	26	32.643	41.169	17.826	0.00	0.00
ATOM	400	HG	SER	X	26	32.742	40.416	18.414	0.00	0.00
ATOM	401	C	SER	X	26	35.211	41.610	19.064	0.00	0.00
ATOM	402	O	SER	X	26	34.974	41.006	20.092	0.00	0.00
ATOM	403	N	ALA	X	27	35.677	42.881	19.071	0.00	0.00
ATOM	404	H	ALA	X	27	35.930	43.280	18.178	0.00	0.00
ATOM	405	CA	ALA	X	27	36.358	43.575	20.239	0.00	0.00
ATOM	406	HA	ALA	X	27	35.830	43.264	21.141	0.00	0.00
ATOM	407	CB	ALA	X	27	37.774	43.046	20.271	0.00	0.00
ATOM	408	HB1	ALA	X	27	38.324	43.478	21.107	0.00	0.00
ATOM	409	HB2	ALA	X	27	38.331	43.083	19.334	0.00	0.00
ATOM	410	HB3	ALA	X	27	37.743	41.993	20.548	0.00	0.00
ATOM	411	C	ALA	X	27	36.208	45.094	20.168	0.00	0.00
ATOM	412	O	ALA	X	27	36.251	45.833	19.218	0.00	0.00
ATOM	413	N	PHE	X	28	35.850	45.496	21.390	0.00	0.00
ATOM	414	H	PHE	X	28	35.742	44.871	22.176	0.00	0.00
ATOM	415	CA	PHE	X	28	35.545	46.933	21.672	0.00	0.00
ATOM	416	HA	PHE	X	28	35.808	47.541	20.807	0.00	0.00
ATOM	417	CB	PHE	X	28	34.045	47.242	21.853	0.00	0.00
ATOM	418	HB2	PHE	X	28	33.812	46.767	22.807	0.00	0.00
ATOM	419	HB3	PHE	X	28	33.981	48.315	22.033	0.00	0.00
ATOM	420	CG	PHE	X	28	33.222	46.868	20.728	0.00	0.00

ATOM	421	CD1	PHE	X	28	33.036	45.519	20.468	0.00	0.00
ATOM	422	HD1	PHE	X	28	33.311	44.760	21.185	0.00	0.00
ATOM	423	CE1	PHE	X	28	32.303	45.038	19.334	0.00	0.00
ATOM	424	HE1	PHE	X	28	32.218	43.969	19.206	0.00	0.00
ATOM	425	CZ	PHE	X	28	31.732	45.982	18.469	0.00	0.00
ATOM	426	HZ	PHE	X	28	31.166	45.587	17.639	0.00	0.00
ATOM	427	CE2	PHE	X	28	31.748	47.374	18.802	0.00	0.00
ATOM	428	HE2	PHE	X	28	31.234	48.072	18.157	0.00	0.00
ATOM	429	CD2	PHE	X	28	32.576	47.833	19.877	0.00	0.00
ATOM	430	HD2	PHE	X	28	32.680	48.891	20.073	0.00	0.00
ATOM	431	C	PHE	X	28	36.358	47.473	22.863	0.00	0.00
ATOM	432	O	PHE	X	28	36.318	46.862	23.923	0.00	0.00
ATOM	433	N	LEU	X	29	37.113	48.582	22.714	0.00	0.00
ATOM	434	H	LEU	X	29	37.020	49.218	21.935	0.00	0.00
ATOM	435	CA	LEU	X	29	38.096	49.033	23.696	0.00	0.00
ATOM	436	HA	LEU	X	29	37.761	48.515	24.594	0.00	0.00
ATOM	437	CB	LEU	X	29	39.541	48.605	23.171	0.00	0.00
ATOM	438	HB2	LEU	X	29	39.813	49.200	22.300	0.00	0.00
ATOM	439	HB3	LEU	X	29	40.305	48.910	23.887	0.00	0.00
ATOM	440	CG	LEU	X	29	39.712	47.165	22.658	0.00	0.00
ATOM	441	HG	LEU	X	29	38.911	46.845	21.992	0.00	0.00
ATOM	442	CD1	LEU	X	29	41.019	47.058	21.851	0.00	0.00
ATOM	443	HD11	LEU	X	29	40.806	47.331	20.817	0.00	0.00
ATOM	444	HD12	LEU	X	29	41.371	46.027	21.867	0.00	0.00
ATOM	445	HD13	LEU	X	29	41.748	47.599	22.454	0.00	0.00
ATOM	446	CD2	LEU	X	29	39.698	46.093	23.877	0.00	0.00
ATOM	447	HD21	LEU	X	29	39.461	45.094	23.514	0.00	0.00
ATOM	448	HD22	LEU	X	29	40.739	46.071	24.202	0.00	0.00
ATOM	449	HD23	LEU	X	29	38.916	46.492	24.523	0.00	0.00
ATOM	450	C	LEU	X	29	37.997	50.520	23.917	0.00	0.00
ATOM	451	O	LEU	X	29	37.772	51.284	22.999	0.00	0.00
ATOM	452	N	GLY	X	30	38.209	51.045	25.121	0.00	0.00
ATOM	453	H	GLY	X	30	38.388	50.401	25.878	0.00	0.00
ATOM	454	CA	GLY	X	30	38.310	52.457	25.412	0.00	0.00
ATOM	455	HA2	GLY	X	30	38.841	52.651	26.344	0.00	0.00
ATOM	456	HA3	GLY	X	30	38.998	52.948	24.724	0.00	0.00
ATOM	457	C	GLY	X	30	36.966	53.110	25.470	0.00	0.00
ATOM	458	O	GLY	X	30	36.830	54.290	25.225	0.00	0.00
ATOM	459	N	ILE	X	31	35.938	52.338	25.924	0.00	0.00
ATOM	460	H	ILE	X	31	36.155	51.441	26.336	0.00	0.00
ATOM	461	CA	ILE	X	31	34.537	52.786	26.022	0.00	0.00
ATOM	462	HA	ILE	X	31	34.190	53.339	25.150	0.00	0.00
ATOM	463	CB	ILE	X	31	33.571	51.576	26.121	0.00	0.00
ATOM	464	HB	ILE	X	31	33.928	51.130	27.049	0.00	0.00
ATOM	465	CG2	ILE	X	31	32.154	52.181	26.279	0.00	0.00
ATOM	466	HG21	ILE	X	31	32.032	52.747	27.203	0.00	0.00
ATOM	467	HG22	ILE	X	31	31.449	51.350	26.288	0.00	0.00
ATOM	468	HG23	ILE	X	31	31.950	52.852	25.445	0.00	0.00
ATOM	469	CG1	ILE	X	31	33.517	50.716	24.849	0.00	0.00
ATOM	470	HG12	ILE	X	31	32.978	51.223	24.049	0.00	0.00
ATOM	471	HG13	ILE	X	31	34.528	50.484	24.512	0.00	0.00
ATOM	472	CD1	ILE	X	31	33.002	49.293	25.082	0.00	0.00
ATOM	473	HD11	ILE	X	31	32.842	48.729	24.163	0.00	0.00
ATOM	474	HD12	ILE	X	31	32.057	49.219	25.619	0.00	0.00
ATOM	475	HD13	ILE	X	31	33.811	48.796	25.618	0.00	0.00
ATOM	476	C	ILE	X	31	34.575	53.713	27.215	0.00	0.00
ATOM	477	O	ILE	X	31	34.772	53.308	28.349	0.00	0.00
ATOM	478	N	PRO	X	32	34.246	55.010	27.062	0.00	0.00
ATOM	479	CD	PRO	X	32	33.765	55.630	25.877	0.00	0.00
ATOM	480	HD2	PRO	X	32	32.971	55.068	25.385	0.00	0.00
ATOM	481	HD3	PRO	X	32	34.636	55.748	25.232	0.00	0.00
ATOM	482	CG	PRO	X	32	33.290	56.987	26.260	0.00	0.00
ATOM	483	HG2	PRO	X	32	32.217	56.862	26.406	0.00	0.00
ATOM	484	HG3	PRO	X	32	33.386	57.671	25.417	0.00	0.00
ATOM	485	CB	PRO	X	32	33.996	57.301	27.561	0.00	0.00
ATOM	486	HB2	PRO	X	32	33.574	58.090	28.182	0.00	0.00
ATOM	487	HB3	PRO	X	32	35.066	57.476	27.453	0.00	0.00

ATOM	488	CA	PRO	X	32	33.991	55.912	28.219	0.00	0.00
ATOM	489	HA	PRO	X	32	34.922	56.030	28.773	0.00	0.00
ATOM	490	C	PRO	X	32	32.739	55.597	29.036	0.00	0.00
ATOM	491	O	PRO	X	32	31.663	55.414	28.529	0.00	0.00
ATOM	492	N	PHE	X	33	32.784	55.538	30.408	0.00	0.00
ATOM	493	H	PHE	X	33	33.669	55.594	30.892	0.00	0.00
ATOM	494	CA	PHE	X	33	31.678	55.254	31.335	0.00	0.00
ATOM	495	HA	PHE	X	33	30.762	55.232	30.745	0.00	0.00
ATOM	496	CB	PHE	X	33	31.845	53.854	32.018	0.00	0.00
ATOM	497	HB2	PHE	X	33	30.910	53.766	32.571	0.00	0.00
ATOM	498	HB3	PHE	X	33	31.826	52.989	31.354	0.00	0.00
ATOM	499	CG	PHE	X	33	33.072	53.577	32.975	0.00	0.00
ATOM	500	CD1	PHE	X	33	32.868	53.513	34.353	0.00	0.00
ATOM	501	HD1	PHE	X	33	31.841	53.598	34.676	0.00	0.00
ATOM	502	CE1	PHE	X	33	34.006	53.367	35.157	0.00	0.00
ATOM	503	HE1	PHE	X	33	33.890	53.379	36.231	0.00	0.00
ATOM	504	CZ	PHE	X	33	35.227	53.061	34.534	0.00	0.00
ATOM	505	HZ	PHE	X	33	36.118	52.775	35.072	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.445	52.955	33.188	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.361	52.588	32.749	0.00	0.00
ATOM	508	CD2	PHE	X	33	34.336	53.254	32.410	0.00	0.00
ATOM	509	HD2	PHE	X	33	34.427	53.298	31.334	0.00	0.00
ATOM	510	C	PHE	X	33	31.594	56.261	32.438	0.00	0.00
ATOM	511	O	PHE	X	33	30.508	56.406	32.949	0.00	0.00
ATOM	512	N	ALA	X	34	32.691	56.911	32.785	0.00	0.00
ATOM	513	H	ALA	X	34	33.461	56.911	32.132	0.00	0.00
ATOM	514	CA	ALA	X	34	32.705	57.956	33.867	0.00	0.00
ATOM	515	HA	ALA	X	34	31.732	58.126	34.327	0.00	0.00
ATOM	516	CB	ALA	X	34	33.564	57.280	34.996	0.00	0.00
ATOM	517	HB1	ALA	X	34	32.997	56.504	35.511	0.00	0.00
ATOM	518	HB2	ALA	X	34	33.826	58.081	35.686	0.00	0.00
ATOM	519	HB3	ALA	X	34	34.513	56.924	34.595	0.00	0.00
ATOM	520	C	ALA	X	34	33.309	59.319	33.431	0.00	0.00
ATOM	521	O	ALA	X	34	34.158	59.264	32.542	0.00	0.00
ATOM	522	N	GLU	X	35	32.961	60.355	34.170	0.00	0.00
ATOM	523	H	GLU	X	35	32.222	60.081	34.803	0.00	0.00
ATOM	524	CA	GLU	X	35	33.485	61.729	34.172	0.00	0.00
ATOM	525	HA	GLU	X	35	33.475	62.043	33.129	0.00	0.00
ATOM	526	CB	GLU	X	35	32.528	62.607	35.035	0.00	0.00
ATOM	527	HB2	GLU	X	35	32.378	62.217	36.042	0.00	0.00
ATOM	528	HB3	GLU	X	35	32.969	63.598	35.141	0.00	0.00
ATOM	529	CG	GLU	X	35	31.185	62.788	34.414	0.00	0.00
ATOM	530	HG2	GLU	X	35	30.743	61.811	34.224	0.00	0.00
ATOM	531	HG3	GLU	X	35	30.554	63.279	35.154	0.00	0.00
ATOM	532	CD	GLU	X	35	31.209	63.640	33.161	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.952	63.169	32.039	0.00	0.00
ATOM	534	OE2	GLU	X	35	31.309	64.902	33.250	0.00	0.00
ATOM	535	C	GLU	X	35	34.961	61.910	34.566	0.00	0.00
ATOM	536	O	GLU	X	35	35.586	61.042	35.239	0.00	0.00
ATOM	537	N	PRO	X	36	35.616	63.031	34.182	0.00	0.00
ATOM	538	CD	PRO	X	36	35.066	64.206	33.419	0.00	0.00
ATOM	539	HD2	PRO	X	36	34.506	64.854	34.093	0.00	0.00
ATOM	540	HD3	PRO	X	36	34.412	63.806	32.644	0.00	0.00
ATOM	541	CG	PRO	X	36	36.305	64.935	32.903	0.00	0.00
ATOM	542	HG2	PRO	X	36	36.194	66.019	32.881	0.00	0.00
ATOM	543	HG3	PRO	X	36	36.659	64.542	31.949	0.00	0.00
ATOM	544	CB	PRO	X	36	37.317	64.683	33.957	0.00	0.00
ATOM	545	HB2	PRO	X	36	37.165	65.465	34.701	0.00	0.00
ATOM	546	HB3	PRO	X	36	38.336	64.846	33.607	0.00	0.00
ATOM	547	CA	PRO	X	36	36.981	63.275	34.495	0.00	0.00
ATOM	548	HA	PRO	X	36	37.477	62.595	33.803	0.00	0.00
ATOM	549	C	PRO	X	36	37.401	63.006	35.905	0.00	0.00
ATOM	550	O	PRO	X	36	36.934	63.679	36.832	0.00	0.00
ATOM	551	N	PRO	X	37	38.356	62.042	36.122	0.00	0.00
ATOM	552	CD	PRO	X	37	38.916	61.142	35.172	0.00	0.00
ATOM	553	HD2	PRO	X	37	39.333	61.754	34.372	0.00	0.00
ATOM	554	HD3	PRO	X	37	38.188	60.500	34.676	0.00	0.00

ATOM	555	CG	PRO	X	37	39.897	60.213	35.898	0.00	0.00
ATOM	556	HG2	PRO	X	37	40.897	60.643	35.849	0.00	0.00
ATOM	557	HG3	PRO	X	37	39.903	59.208	35.476	0.00	0.00
ATOM	558	CB	PRO	X	37	39.442	60.240	37.353	0.00	0.00
ATOM	559	HB2	PRO	X	37	40.319	60.211	37.999	0.00	0.00
ATOM	560	HB3	PRO	X	37	38.683	59.467	37.472	0.00	0.00
ATOM	561	CA	PRO	X	37	38.823	61.664	37.440	0.00	0.00
ATOM	562	HA	PRO	X	37	38.023	61.653	38.180	0.00	0.00
ATOM	563	C	PRO	X	37	39.952	62.521	37.890	0.00	0.00
ATOM	564	O	PRO	X	37	40.175	62.604	39.101	0.00	0.00
ATOM	565	N	MET	X	38	40.643	63.187	36.938	0.00	0.00
ATOM	566	H	MET	X	38	40.353	63.021	35.985	0.00	0.00
ATOM	567	CA	MET	X	38	41.630	64.292	37.151	0.00	0.00
ATOM	568	HA	MET	X	38	42.528	63.822	37.553	0.00	0.00
ATOM	569	CB	MET	X	38	41.948	64.922	35.735	0.00	0.00
ATOM	570	HB2	MET	X	38	42.902	65.448	35.725	0.00	0.00
ATOM	571	HB3	MET	X	38	42.132	64.104	35.038	0.00	0.00
ATOM	572	CG	MET	X	38	40.771	65.892	35.289	0.00	0.00
ATOM	573	HG2	MET	X	38	40.756	65.851	34.200	0.00	0.00
ATOM	574	HG3	MET	X	38	39.883	65.415	35.706	0.00	0.00
ATOM	575	SD	MET	X	38	40.785	67.660	35.643	0.00	0.00
ATOM	576	CE	MET	X	38	39.089	68.092	35.161	0.00	0.00
ATOM	577	HE1	MET	X	38	38.358	67.849	35.932	0.00	0.00
ATOM	578	HE2	MET	X	38	39.012	69.126	34.824	0.00	0.00
ATOM	579	HE3	MET	X	38	38.830	67.525	34.267	0.00	0.00
ATOM	580	C	MET	X	38	41.236	65.361	38.161	0.00	0.00
ATOM	581	O	MET	X	38	40.082	65.580	38.539	0.00	0.00
ATOM	582	N	GLY	X	39	42.326	66.077	38.498	0.00	0.00
ATOM	583	H	GLY	X	39	43.235	65.730	38.226	0.00	0.00
ATOM	584	CA	GLY	X	39	42.443	67.398	39.089	0.00	0.00
ATOM	585	HA2	GLY	X	39	43.449	67.743	39.327	0.00	0.00
ATOM	586	HA3	GLY	X	39	42.133	68.088	38.305	0.00	0.00
ATOM	587	C	GLY	X	39	41.437	67.519	40.264	0.00	0.00
ATOM	588	O	GLY	X	39	41.637	66.889	41.304	0.00	0.00
ATOM	589	N	PRO	X	40	40.375	68.294	40.098	0.00	0.00
ATOM	590	CD	PRO	X	40	39.882	68.955	38.965	0.00	0.00
ATOM	591	HD2	PRO	X	40	39.344	68.222	38.363	0.00	0.00
ATOM	592	HD3	PRO	X	40	40.639	69.440	38.349	0.00	0.00
ATOM	593	CG	PRO	X	40	38.824	69.939	39.491	0.00	0.00
ATOM	594	HG2	PRO	X	40	38.071	70.068	38.713	0.00	0.00
ATOM	595	HG3	PRO	X	40	39.327	70.888	39.676	0.00	0.00
ATOM	596	CB	PRO	X	40	38.305	69.324	40.805	0.00	0.00
ATOM	597	HB2	PRO	X	40	37.381	68.790	40.583	0.00	0.00
ATOM	598	HB3	PRO	X	40	38.156	70.216	41.413	0.00	0.00
ATOM	599	CA	PRO	X	40	39.451	68.488	41.287	0.00	0.00
ATOM	600	HA	PRO	X	40	40.006	69.053	42.036	0.00	0.00
ATOM	601	C	PRO	X	40	38.788	67.213	41.867	0.00	0.00
ATOM	602	O	PRO	X	40	38.600	67.140	43.098	0.00	0.00
ATOM	603	N	ARG	X	41	38.572	66.153	41.021	0.00	0.00
ATOM	604	H	ARG	X	41	39.111	66.190	40.167	0.00	0.00
ATOM	605	CA	ARG	X	41	38.074	64.849	41.381	0.00	0.00
ATOM	606	HA	ARG	X	41	37.431	64.933	42.257	0.00	0.00
ATOM	607	CB	ARG	X	41	37.116	64.347	40.316	0.00	0.00
ATOM	608	HB2	ARG	X	41	36.422	65.145	40.053	0.00	0.00
ATOM	609	HB3	ARG	X	41	37.619	63.975	39.424	0.00	0.00
ATOM	610	CG	ARG	X	41	36.125	63.260	40.801	0.00	0.00
ATOM	611	HG2	ARG	X	41	36.695	62.415	41.187	0.00	0.00
ATOM	612	HG3	ARG	X	41	35.601	63.663	41.667	0.00	0.00
ATOM	613	CD	ARG	X	41	35.317	62.715	39.632	0.00	0.00
ATOM	614	HD2	ARG	X	41	36.008	62.495	38.818	0.00	0.00
ATOM	615	HD3	ARG	X	41	34.888	61.780	39.990	0.00	0.00
ATOM	616	NE	ARG	X	41	34.244	63.607	39.238	0.00	0.00
ATOM	617	HE	ARG	X	41	34.243	63.918	38.277	0.00	0.00
ATOM	618	CZ	ARG	X	41	33.220	64.044	39.974	0.00	0.00
ATOM	619	NH1	ARG	X	41	32.851	63.526	41.090	0.00	0.00
ATOM	620	HH11	ARG	X	41	33.568	63.063	41.631	0.00	0.00
ATOM	621	HH12	ARG	X	41	32.077	64.035	41.493	0.00	0.00

ATOM	622	NH2	ARG	X	41	32.563	65.040	39.502	0.00	0.00
ATOM	623	HH21	ARG	X	41	33.020	65.541	38.753	0.00	0.00
ATOM	624	HH22	ARG	X	41	31.719	65.444	39.883	0.00	0.00
ATOM	625	C	ARG	X	41	39.106	63.839	41.816	0.00	0.00
ATOM	626	O	ARG	X	41	38.795	62.739	42.213	0.00	0.00
ATOM	627	N	ARG	X	42	40.376	64.142	41.799	0.00	0.00
ATOM	628	H	ARG	X	42	40.557	65.099	41.534	0.00	0.00
ATOM	629	CA	ARG	X	42	41.519	63.311	42.197	0.00	0.00
ATOM	630	HA	ARG	X	42	41.516	62.435	41.549	0.00	0.00
ATOM	631	CB	ARG	X	42	42.841	64.070	41.998	0.00	0.00
ATOM	632	HB2	ARG	X	42	42.900	64.432	40.972	0.00	0.00
ATOM	633	HB3	ARG	X	42	42.960	64.919	42.671	0.00	0.00
ATOM	634	CG	ARG	X	42	44.078	63.166	42.258	0.00	0.00
ATOM	635	HG2	ARG	X	42	43.990	62.572	43.168	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.056	62.462	41.426	0.00	0.00
ATOM	637	CD	ARG	X	42	45.428	63.920	42.294	0.00	0.00
ATOM	638	HD2	ARG	X	42	45.473	64.649	43.104	0.00	0.00
ATOM	639	HD3	ARG	X	42	46.227	63.185	42.393	0.00	0.00
ATOM	640	NE	ARG	X	42	45.640	64.591	40.996	0.00	0.00
ATOM	641	HE	ARG	X	42	44.932	64.503	40.281	0.00	0.00
ATOM	642	CZ	ARG	X	42	46.664	65.424	40.781	0.00	0.00
ATOM	643	NH1	ARG	X	42	47.599	65.600	41.648	0.00	0.00
ATOM	644	HH11	ARG	X	42	47.411	65.384	42.617	0.00	0.00
ATOM	645	HH12	ARG	X	42	48.467	66.060	41.414	0.00	0.00
ATOM	646	NH2	ARG	X	42	46.701	66.020	39.637	0.00	0.00
ATOM	647	HH21	ARG	X	42	46.049	65.654	38.958	0.00	0.00
ATOM	648	HH22	ARG	X	42	47.535	66.515	39.356	0.00	0.00
ATOM	649	C	ARG	X	42	41.336	62.969	43.728	0.00	0.00
ATOM	650	O	ARG	X	42	41.215	63.935	44.515	0.00	0.00
ATOM	651	N	PHE	X	43	41.267	61.720	44.070	0.00	0.00
ATOM	652	H	PHE	X	43	41.435	61.045	43.337	0.00	0.00
ATOM	653	CA	PHE	X	43	40.946	61.222	45.466	0.00	0.00
ATOM	654	HA	PHE	X	43	41.276	60.185	45.419	0.00	0.00
ATOM	655	CB	PHE	X	43	41.819	61.942	46.537	0.00	0.00
ATOM	656	HB2	PHE	X	43	41.272	62.849	46.799	0.00	0.00
ATOM	657	HB3	PHE	X	43	41.890	61.324	47.432	0.00	0.00
ATOM	658	CG	PHE	X	43	43.316	62.397	46.269	0.00	0.00
ATOM	659	CD1	PHE	X	43	44.302	61.485	45.870	0.00	0.00
ATOM	660	HD1	PHE	X	43	43.945	60.495	45.626	0.00	0.00
ATOM	661	CE1	PHE	X	43	45.618	61.905	45.589	0.00	0.00
ATOM	662	HE1	PHE	X	43	46.418	61.258	45.262	0.00	0.00
ATOM	663	CZ	PHE	X	43	45.932	63.273	45.798	0.00	0.00
ATOM	664	HZ	PHE	X	43	46.935	63.580	45.542	0.00	0.00
ATOM	665	CE2	PHE	X	43	44.961	64.188	46.195	0.00	0.00
ATOM	666	HE2	PHE	X	43	45.174	65.215	46.453	0.00	0.00
ATOM	667	CD2	PHE	X	43	43.670	63.772	46.378	0.00	0.00
ATOM	668	HD2	PHE	X	43	42.965	64.476	46.796	0.00	0.00
ATOM	669	C	PHE	X	43	39.499	61.051	45.865	0.00	0.00
ATOM	670	O	PHE	X	43	39.135	60.688	46.969	0.00	0.00
ATOM	671	N	LEU	X	44	38.576	61.419	44.963	0.00	0.00
ATOM	672	H	LEU	X	44	38.957	61.720	44.077	0.00	0.00
ATOM	673	CA	LEU	X	44	37.105	61.692	45.091	0.00	0.00
ATOM	674	HA	LEU	X	44	36.819	61.387	46.098	0.00	0.00
ATOM	675	CB	LEU	X	44	36.873	63.174	44.912	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.715	63.504	44.303	0.00	0.00
ATOM	677	HB3	LEU	X	44	35.919	63.336	44.412	0.00	0.00
ATOM	678	CG	LEU	X	44	36.906	64.038	46.173	0.00	0.00
ATOM	679	HG	LEU	X	44	37.838	63.783	46.678	0.00	0.00
ATOM	680	CD1	LEU	X	44	36.921	65.481	45.795	0.00	0.00
ATOM	681	HD11	LEU	X	44	37.164	66.080	46.673	0.00	0.00
ATOM	682	HD12	LEU	X	44	35.914	65.630	45.405	0.00	0.00
ATOM	683	HD13	LEU	X	44	37.656	65.591	44.997	0.00	0.00
ATOM	684	CD2	LEU	X	44	35.718	63.803	47.133	0.00	0.00
ATOM	685	HD21	LEU	X	44	35.852	64.345	48.069	0.00	0.00
ATOM	686	HD22	LEU	X	44	34.770	64.007	46.636	0.00	0.00
ATOM	687	HD23	LEU	X	44	35.733	62.734	47.347	0.00	0.00
ATOM	688	C	LEU	X	44	36.334	60.890	44.106	0.00	0.00

ATOM	689	O	LEU	X	44	36.827	60.445	43.088	0.00	0.00
ATOM	690	N	PRO	X	45	35.125	60.478	44.446	0.00	0.00
ATOM	691	CD	PRO	X	45	34.280	60.796	45.593	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.451	61.852	45.800	0.00	0.00
ATOM	693	HD3	PRO	X	45	34.580	60.183	46.443	0.00	0.00
ATOM	694	CG	PRO	X	45	32.891	60.427	45.243	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.536	61.215	44.579	0.00	0.00
ATOM	696	HG3	PRO	X	45	32.233	60.279	46.099	0.00	0.00
ATOM	697	CB	PRO	X	45	33.062	59.187	44.474	0.00	0.00
ATOM	698	HB2	PRO	X	45	32.173	59.001	43.872	0.00	0.00
ATOM	699	HB3	PRO	X	45	33.291	58.377	45.167	0.00	0.00
ATOM	700	CA	PRO	X	45	34.354	59.448	43.658	0.00	0.00
ATOM	701	HA	PRO	X	45	34.938	58.530	43.733	0.00	0.00
ATOM	702	C	PRO	X	45	33.952	59.751	42.209	0.00	0.00
ATOM	703	O	PRO	X	45	33.985	60.955	41.997	0.00	0.00
ATOM	704	N	PRO	X	46	33.583	58.751	41.356	0.00	0.00
ATOM	705	CD	PRO	X	46	33.662	57.372	41.580	0.00	0.00
ATOM	706	HD2	PRO	X	46	33.131	56.995	42.455	0.00	0.00
ATOM	707	HD3	PRO	X	46	34.705	57.077	41.691	0.00	0.00
ATOM	708	CG	PRO	X	46	33.086	56.698	40.333	0.00	0.00
ATOM	709	HG2	PRO	X	46	32.004	56.757	40.216	0.00	0.00
ATOM	710	HG3	PRO	X	46	33.479	55.685	40.252	0.00	0.00
ATOM	711	CB	PRO	X	46	33.556	57.645	39.239	0.00	0.00
ATOM	712	HB2	PRO	X	46	32.987	57.634	38.309	0.00	0.00
ATOM	713	HB3	PRO	X	46	34.624	57.533	39.051	0.00	0.00
ATOM	714	CA	PRO	X	46	33.323	59.010	39.950	0.00	0.00
ATOM	715	HA	PRO	X	46	34.065	59.681	39.517	0.00	0.00
ATOM	716	C	PRO	X	46	31.941	59.534	39.820	0.00	0.00
ATOM	717	O	PRO	X	46	31.064	59.169	40.676	0.00	0.00
ATOM	718	N	GLU	X	47	31.667	60.266	38.741	0.00	0.00
ATOM	719	H	GLU	X	47	32.444	60.501	38.140	0.00	0.00
ATOM	720	CA	GLU	X	47	30.346	60.647	38.244	0.00	0.00
ATOM	721	HA	GLU	X	47	29.576	60.146	38.832	0.00	0.00
ATOM	722	CB	GLU	X	47	30.192	62.218	38.309	0.00	0.00
ATOM	723	HB2	GLU	X	47	31.196	62.643	38.317	0.00	0.00
ATOM	724	HB3	GLU	X	47	29.755	62.515	37.356	0.00	0.00
ATOM	725	CG	GLU	X	47	29.396	62.635	39.623	0.00	0.00
ATOM	726	HG2	GLU	X	47	28.340	62.365	39.592	0.00	0.00
ATOM	727	HG3	GLU	X	47	29.827	62.093	40.465	0.00	0.00
ATOM	728	CD	GLU	X	47	29.369	64.163	39.825	0.00	0.00
ATOM	729	OE1	GLU	X	47	29.919	64.640	40.880	0.00	0.00
ATOM	730	OE2	GLU	X	47	28.754	64.896	39.020	0.00	0.00
ATOM	731	C	GLU	X	47	30.029	60.040	36.879	0.00	0.00
ATOM	732	O	GLU	X	47	30.969	59.631	36.162	0.00	0.00
ATOM	733	N	PRO	X	48	28.774	59.781	36.487	0.00	0.00
ATOM	734	CD	PRO	X	48	27.562	60.075	37.283	0.00	0.00
ATOM	735	HD2	PRO	X	48	27.641	61.117	37.590	0.00	0.00
ATOM	736	HD3	PRO	X	48	27.439	59.382	38.115	0.00	0.00
ATOM	737	CG	PRO	X	48	26.444	59.875	36.307	0.00	0.00
ATOM	738	HG2	PRO	X	48	26.249	60.738	35.669	0.00	0.00
ATOM	739	HG3	PRO	X	48	25.454	59.618	36.685	0.00	0.00
ATOM	740	CB	PRO	X	48	26.853	58.733	35.390	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.204	58.708	34.515	0.00	0.00
ATOM	742	HB3	PRO	X	48	26.773	57.838	36.007	0.00	0.00
ATOM	743	CA	PRO	X	48	28.324	59.162	35.237	0.00	0.00
ATOM	744	HA	PRO	X	48	28.798	58.182	35.187	0.00	0.00
ATOM	745	C	PRO	X	48	28.671	59.886	33.984	0.00	0.00
ATOM	746	O	PRO	X	48	28.366	61.129	33.897	0.00	0.00
ATOM	747	N	LYS	X	49	29.316	59.219	32.974	0.00	0.00
ATOM	748	H	LYS	X	49	29.638	58.277	33.143	0.00	0.00
ATOM	749	CA	LYS	X	49	29.815	59.959	31.757	0.00	0.00
ATOM	750	HA	LYS	X	49	30.594	60.664	32.046	0.00	0.00
ATOM	751	CB	LYS	X	49	30.521	59.005	30.742	0.00	0.00
ATOM	752	HB2	LYS	X	49	31.310	58.475	31.276	0.00	0.00
ATOM	753	HB3	LYS	X	49	29.837	58.203	30.464	0.00	0.00
ATOM	754	CG	LYS	X	49	31.084	59.548	29.472	0.00	0.00
ATOM	755	HG2	LYS	X	49	31.339	58.679	28.865	0.00	0.00

ATOM	756	HG3	LYS	X	49	30.313	60.010	28.856	0.00	0.00
ATOM	757	CD	LYS	X	49	32.278	60.476	29.583	0.00	0.00
ATOM	758	HD2	LYS	X	49	31.837	61.324	30.107	0.00	0.00
ATOM	759	HD3	LYS	X	49	33.155	60.211	30.174	0.00	0.00
ATOM	760	CE	LYS	X	49	32.566	60.891	28.096	0.00	0.00
ATOM	761	HE2	LYS	X	49	32.969	60.072	27.500	0.00	0.00
ATOM	762	HE3	LYS	X	49	31.688	61.254	27.561	0.00	0.00
ATOM	763	NZ	LYS	X	49	33.494	62.051	28.164	0.00	0.00
ATOM	764	HZ1	LYS	X	49	34.485	61.852	28.173	0.00	0.00
ATOM	765	HZ2	LYS	X	49	33.374	62.553	27.296	0.00	0.00
ATOM	766	HZ3	LYS	X	49	33.344	62.700	28.923	0.00	0.00
ATOM	767	C	LYS	X	49	28.671	60.587	31.010	0.00	0.00
ATOM	768	O	LYS	X	49	27.692	59.896	30.819	0.00	0.00
ATOM	769	N	GLN	X	50	28.823	61.821	30.619	0.00	0.00
ATOM	770	H	GLN	X	50	29.467	62.480	31.033	0.00	0.00
ATOM	771	CA	GLN	X	50	27.936	62.650	29.769	0.00	0.00
ATOM	772	HA	GLN	X	50	26.932	62.414	30.122	0.00	0.00
ATOM	773	CB	GLN	X	50	28.197	64.193	29.981	0.00	0.00
ATOM	774	HB2	GLN	X	50	27.217	64.657	29.865	0.00	0.00
ATOM	775	HB3	GLN	X	50	28.577	64.242	31.001	0.00	0.00
ATOM	776	CG	GLN	X	50	29.203	64.854	29.016	0.00	0.00
ATOM	777	HG2	GLN	X	50	30.137	64.333	29.225	0.00	0.00
ATOM	778	HG3	GLN	X	50	28.843	64.682	28.002	0.00	0.00
ATOM	779	CD	GLN	X	50	29.350	66.415	29.265	0.00	0.00
ATOM	780	OE1	GLN	X	50	28.812	66.967	30.221	0.00	0.00
ATOM	781	NE2	GLN	X	50	30.094	67.163	28.565	0.00	0.00
ATOM	782	HE21	GLN	X	50	30.296	68.130	28.776	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.652	66.736	27.839	0.00	0.00
ATOM	784	C	GLN	X	50	27.733	62.125	28.299	0.00	0.00
ATOM	785	O	GLN	X	50	28.652	61.520	27.851	0.00	0.00
ATOM	786	N	PRO	X	51	26.563	62.228	27.619	0.00	0.00
ATOM	787	CD	PRO	X	51	25.478	63.144	27.923	0.00	0.00
ATOM	788	HD2	PRO	X	51	25.809	64.125	27.582	0.00	0.00
ATOM	789	HD3	PRO	X	51	25.197	63.227	28.973	0.00	0.00
ATOM	790	CG	PRO	X	51	24.325	62.794	26.969	0.00	0.00
ATOM	791	HG2	PRO	X	51	23.948	63.614	26.358	0.00	0.00
ATOM	792	HG3	PRO	X	51	23.412	62.523	27.499	0.00	0.00
ATOM	793	CB	PRO	X	51	24.844	61.605	26.137	0.00	0.00
ATOM	794	HB2	PRO	X	51	24.615	61.738	25.079	0.00	0.00
ATOM	795	HB3	PRO	X	51	24.469	60.654	26.515	0.00	0.00
ATOM	796	CA	PRO	X	51	26.375	61.545	26.399	0.00	0.00
ATOM	797	HA	PRO	X	51	26.670	60.508	26.564	0.00	0.00
ATOM	798	C	PRO	X	51	27.277	62.108	25.343	0.00	0.00
ATOM	799	O	PRO	X	51	27.659	63.312	25.428	0.00	0.00
ATOM	800	N	TRP	X	52	27.511	61.419	24.195	0.00	0.00
ATOM	801	H	TRP	X	52	27.084	60.508	24.111	0.00	0.00
ATOM	802	CA	TRP	X	52	28.321	61.827	23.063	0.00	0.00
ATOM	803	HA	TRP	X	52	28.557	62.887	23.160	0.00	0.00
ATOM	804	CB	TRP	X	52	29.623	61.050	22.971	0.00	0.00
ATOM	805	HB2	TRP	X	52	30.209	61.322	22.093	0.00	0.00
ATOM	806	HB3	TRP	X	52	30.261	61.328	23.810	0.00	0.00
ATOM	807	CG	TRP	X	52	29.485	59.565	22.896	0.00	0.00
ATOM	808	CD1	TRP	X	52	29.444	58.742	21.820	0.00	0.00
ATOM	809	HD1	TRP	X	52	29.512	59.087	20.799	0.00	0.00
ATOM	810	NE1	TRP	X	52	29.362	57.376	22.120	0.00	0.00
ATOM	811	HE1	TRP	X	52	29.444	56.623	21.451	0.00	0.00
ATOM	812	CE2	TRP	X	52	29.221	57.314	23.440	0.00	0.00
ATOM	813	CZ2	TRP	X	52	29.041	56.177	24.263	0.00	0.00
ATOM	814	HZ2	TRP	X	52	29.055	55.194	23.814	0.00	0.00
ATOM	815	CH2	TRP	X	52	29.030	56.312	25.619	0.00	0.00
ATOM	816	HH2	TRP	X	52	28.910	55.426	26.225	0.00	0.00
ATOM	817	CZ3	TRP	X	52	28.933	57.618	26.152	0.00	0.00
ATOM	818	HZ3	TRP	X	52	28.746	57.754	27.207	0.00	0.00
ATOM	819	CE3	TRP	X	52	29.091	58.717	25.348	0.00	0.00
ATOM	820	HE3	TRP	X	52	29.156	59.722	25.740	0.00	0.00
ATOM	821	CD2	TRP	X	52	29.257	58.620	23.960	0.00	0.00
ATOM	822	C	TRP	X	52	27.448	61.782	21.792	0.00	0.00

ATOM	823	O	TRP	X	52	26.885	60.764	21.427	0.00	0.00
ATOM	824	N	SER	X	53	27.428	62.811	20.919	0.00	0.00
ATOM	825	H	SER	X	53	28.108	63.537	21.096	0.00	0.00
ATOM	826	CA	SER	X	53	26.695	63.098	19.679	0.00	0.00
ATOM	827	HA	SER	X	53	25.614	63.022	19.797	0.00	0.00
ATOM	828	CB	SER	X	53	26.980	64.584	19.391	0.00	0.00
ATOM	829	HB2	SER	X	53	27.984	64.897	19.105	0.00	0.00
ATOM	830	HB3	SER	X	53	26.269	64.953	18.651	0.00	0.00
ATOM	831	OG	SER	X	53	26.740	65.346	20.575	0.00	0.00
ATOM	832	HG	SER	X	53	26.288	64.801	21.223	0.00	0.00
ATOM	833	C	SER	X	53	27.089	62.163	18.555	0.00	0.00
ATOM	834	O	SER	X	53	28.271	62.116	18.077	0.00	0.00
ATOM	835	N	GLY	X	54	26.116	61.372	18.040	0.00	0.00
ATOM	836	H	GLY	X	54	25.142	61.541	18.243	0.00	0.00
ATOM	837	CA	GLY	X	54	26.518	60.314	17.110	0.00	0.00
ATOM	838	HA2	GLY	X	54	25.688	59.679	16.803	0.00	0.00
ATOM	839	HA3	GLY	X	54	26.955	60.753	16.214	0.00	0.00
ATOM	840	C	GLY	X	54	27.434	59.306	17.692	0.00	0.00
ATOM	841	O	GLY	X	54	27.153	58.694	18.717	0.00	0.00
ATOM	842	N	VAL	X	55	28.542	59.058	17.051	0.00	0.00
ATOM	843	H	VAL	X	55	28.847	59.711	16.344	0.00	0.00
ATOM	844	CA	VAL	X	55	29.525	57.969	17.360	0.00	0.00
ATOM	845	HA	VAL	X	55	28.926	57.336	18.014	0.00	0.00
ATOM	846	CB	VAL	X	55	29.877	57.278	16.034	0.00	0.00
ATOM	847	HB	VAL	X	55	30.654	57.893	15.580	0.00	0.00
ATOM	848	CG1	VAL	X	55	30.440	55.880	16.299	0.00	0.00
ATOM	849	HG11	VAL	X	55	31.369	55.996	16.856	0.00	0.00
ATOM	850	HG12	VAL	X	55	29.814	55.269	16.950	0.00	0.00
ATOM	851	HG13	VAL	X	55	30.591	55.315	15.379	0.00	0.00
ATOM	852	CG2	VAL	X	55	28.732	57.148	15.011	0.00	0.00
ATOM	853	HG21	VAL	X	55	28.285	58.136	14.900	0.00	0.00
ATOM	854	HG22	VAL	X	55	27.916	56.470	15.262	0.00	0.00
ATOM	855	HG23	VAL	X	55	29.085	56.751	14.059	0.00	0.00
ATOM	856	C	VAL	X	55	30.856	58.479	17.964	0.00	0.00
ATOM	857	O	VAL	X	55	31.365	59.490	17.477	0.00	0.00
ATOM	858	N	VAL	X	56	31.489	57.654	18.780	0.00	0.00
ATOM	859	H	VAL	X	56	30.944	56.828	18.982	0.00	0.00
ATOM	860	CA	VAL	X	56	32.884	57.712	19.145	0.00	0.00
ATOM	861	HA	VAL	X	56	33.444	58.371	18.482	0.00	0.00
ATOM	862	CB	VAL	X	56	33.015	58.102	20.632	0.00	0.00
ATOM	863	HB	VAL	X	56	32.256	57.574	21.210	0.00	0.00
ATOM	864	CG1	VAL	X	56	34.361	57.707	21.277	0.00	0.00
ATOM	865	HG11	VAL	X	56	34.481	56.624	21.291	0.00	0.00
ATOM	866	HG12	VAL	X	56	35.198	58.238	20.823	0.00	0.00
ATOM	867	HG13	VAL	X	56	34.378	57.991	22.329	0.00	0.00
ATOM	868	CG2	VAL	X	56	32.782	59.613	20.895	0.00	0.00
ATOM	869	HG21	VAL	X	56	33.512	60.276	20.430	0.00	0.00
ATOM	870	HG22	VAL	X	56	32.884	59.785	21.966	0.00	0.00
ATOM	871	HG23	VAL	X	56	31.786	59.992	20.671	0.00	0.00
ATOM	872	C	VAL	X	56	33.485	56.327	18.788	0.00	0.00
ATOM	873	O	VAL	X	56	32.806	55.291	18.878	0.00	0.00
ATOM	874	N	ASP	X	57	34.793	56.322	18.347	0.00	0.00
ATOM	875	H	ASP	X	57	35.162	57.260	18.293	0.00	0.00
ATOM	876	CA	ASP	X	57	35.543	55.070	18.028	0.00	0.00
ATOM	877	HA	ASP	X	57	34.862	54.400	17.504	0.00	0.00
ATOM	878	CB	ASP	X	57	36.651	55.492	17.038	0.00	0.00
ATOM	879	HB2	ASP	X	57	36.093	55.912	16.201	0.00	0.00
ATOM	880	HB3	ASP	X	57	37.244	56.310	17.448	0.00	0.00
ATOM	881	CG	ASP	X	57	37.650	54.408	16.608	0.00	0.00
ATOM	882	OD1	ASP	X	57	37.603	54.094	15.393	0.00	0.00
ATOM	883	OD2	ASP	X	57	38.396	53.822	17.428	0.00	0.00
ATOM	884	C	ASP	X	57	36.034	54.306	19.288	0.00	0.00
ATOM	885	O	ASP	X	57	36.551	54.879	20.239	0.00	0.00
ATOM	886	N	ALA	X	58	35.785	53.065	19.334	0.00	0.00
ATOM	887	H	ALA	X	58	35.290	52.675	18.545	0.00	0.00
ATOM	888	CA	ALA	X	58	36.216	52.176	20.447	0.00	0.00
ATOM	889	HA	ALA	X	58	36.778	52.715	21.210	0.00	0.00

ATOM	890	CB	ALA	X	58	34.908	51.610	21.167	0.00	0.00
ATOM	891	HB1	ALA	X	58	34.402	50.813	20.622	0.00	0.00
ATOM	892	HB2	ALA	X	58	34.155	52.395	21.227	0.00	0.00
ATOM	893	HB3	ALA	X	58	35.050	51.192	22.163	0.00	0.00
ATOM	894	C	ALA	X	58	37.079	50.990	19.993	0.00	0.00
ATOM	895	O	ALA	X	58	36.827	49.780	20.230	0.00	0.00
ATOM	896	N	THR	X	59	38.220	51.242	19.278	0.00	0.00
ATOM	897	H	THR	X	59	38.431	52.219	19.132	0.00	0.00
ATOM	898	CA	THR	X	59	38.956	50.226	18.467	0.00	0.00
ATOM	899	HA	THR	X	59	38.452	49.260	18.487	0.00	0.00
ATOM	900	CB	THR	X	59	39.140	50.665	17.033	0.00	0.00
ATOM	901	HB	THR	X	59	39.714	49.932	16.465	0.00	0.00
ATOM	902	CG2	THR	X	59	37.749	50.815	16.364	0.00	0.00
ATOM	903	HG21	THR	X	59	37.094	51.600	16.740	0.00	0.00
ATOM	904	HG22	THR	X	59	37.101	49.939	16.348	0.00	0.00
ATOM	905	HG23	THR	X	59	37.961	51.080	15.328	0.00	0.00
ATOM	906	OG1	THR	X	59	39.971	51.843	17.101	0.00	0.00
ATOM	907	HG1	THR	X	59	39.381	52.597	17.171	0.00	0.00
ATOM	908	C	THR	X	59	40.341	49.929	19.066	0.00	0.00
ATOM	909	O	THR	X	59	41.053	49.026	18.617	0.00	0.00
ATOM	910	N	THR	X	60	40.840	50.635	20.093	0.00	0.00
ATOM	911	H	THR	X	60	40.303	51.375	20.523	0.00	0.00
ATOM	912	CA	THR	X	60	42.223	50.565	20.667	0.00	0.00
ATOM	913	HA	THR	X	60	42.253	49.498	20.889	0.00	0.00
ATOM	914	CB	THR	X	60	43.312	50.986	19.653	0.00	0.00
ATOM	915	HB	THR	X	60	43.047	50.524	18.702	0.00	0.00
ATOM	916	CG2	THR	X	60	43.286	52.493	19.433	0.00	0.00
ATOM	917	HG21	THR	X	60	42.249	52.821	19.358	0.00	0.00
ATOM	918	HG22	THR	X	60	43.843	52.817	18.553	0.00	0.00
ATOM	919	HG23	THR	X	60	43.786	52.902	20.310	0.00	0.00
ATOM	920	OG1	THR	X	60	44.543	50.535	20.130	0.00	0.00
ATOM	921	HG1	THR	X	60	45.228	50.818	19.519	0.00	0.00
ATOM	922	C	THR	X	60	42.266	51.407	22.029	0.00	0.00
ATOM	923	O	THR	X	60	41.505	52.370	22.121	0.00	0.00
ATOM	924	N	PHE	X	61	43.082	50.965	22.987	0.00	0.00
ATOM	925	H	PHE	X	61	43.594	50.126	22.754	0.00	0.00
ATOM	926	CA	PHE	X	61	43.375	51.733	24.170	0.00	0.00
ATOM	927	HA	PHE	X	61	42.412	51.872	24.661	0.00	0.00
ATOM	928	CB	PHE	X	61	44.185	50.757	25.069	0.00	0.00
ATOM	929	HB2	PHE	X	61	45.200	50.891	24.696	0.00	0.00
ATOM	930	HB3	PHE	X	61	44.156	51.205	26.062	0.00	0.00
ATOM	931	CG	PHE	X	61	43.664	49.394	25.202	0.00	0.00
ATOM	932	CD1	PHE	X	61	42.716	49.185	26.258	0.00	0.00
ATOM	933	HD1	PHE	X	61	42.291	50.004	26.819	0.00	0.00
ATOM	934	CE1	PHE	X	61	42.170	47.890	26.406	0.00	0.00
ATOM	935	HE1	PHE	X	61	41.452	47.753	27.202	0.00	0.00
ATOM	936	CZ	PHE	X	61	42.727	46.823	25.661	0.00	0.00
ATOM	937	HZ	PHE	X	61	42.519	45.785	25.877	0.00	0.00
ATOM	938	CE2	PHE	X	61	43.701	47.047	24.606	0.00	0.00
ATOM	939	HE2	PHE	X	61	44.094	46.128	24.196	0.00	0.00
ATOM	940	CD2	PHE	X	61	44.197	48.298	24.468	0.00	0.00
ATOM	941	HD2	PHE	X	61	45.072	48.406	23.843	0.00	0.00
ATOM	942	C	PHE	X	61	44.084	53.055	23.931	0.00	0.00
ATOM	943	O	PHE	X	61	44.989	53.147	23.121	0.00	0.00
ATOM	944	N	GLN	X	62	43.746	54.124	24.659	0.00	0.00
ATOM	945	H	GLN	X	62	42.945	53.916	25.238	0.00	0.00
ATOM	946	CA	GLN	X	62	44.213	55.538	24.467	0.00	0.00
ATOM	947	HA	GLN	X	62	44.730	55.682	23.518	0.00	0.00
ATOM	948	CB	GLN	X	62	43.003	56.485	24.387	0.00	0.00
ATOM	949	HB2	GLN	X	62	42.426	56.376	25.305	0.00	0.00
ATOM	950	HB3	GLN	X	62	43.350	57.519	24.383	0.00	0.00
ATOM	951	CG	GLN	X	62	42.217	56.230	23.103	0.00	0.00
ATOM	952	HG2	GLN	X	62	42.791	56.550	22.234	0.00	0.00
ATOM	953	HG3	GLN	X	62	41.970	55.176	22.977	0.00	0.00
ATOM	954	CD	GLN	X	62	40.898	56.932	23.108	0.00	0.00
ATOM	955	OE1	GLN	X	62	40.855	58.153	23.026	0.00	0.00
ATOM	956	NE2	GLN	X	62	39.764	56.210	23.286	0.00	0.00

ATOM	957	HE21	GLN	X	62	38.820	56.569	23.302	0.00	0.00
ATOM	958	HE22	GLN	X	62	39.834	55.229	23.056	0.00	0.00
ATOM	959	C	GLN	X	62	45.281	55.890	25.582	0.00	0.00
ATOM	960	O	GLN	X	62	46.268	56.614	25.432	0.00	0.00
ATOM	961	N	SER	X	63	45.024	55.361	26.796	0.00	0.00
ATOM	962	H	SER	X	63	44.429	54.547	26.851	0.00	0.00
ATOM	963	CA	SER	X	63	45.731	55.697	28.046	0.00	0.00
ATOM	964	HA	SER	X	63	46.789	55.748	27.788	0.00	0.00
ATOM	965	CB	SER	X	63	45.382	57.094	28.505	0.00	0.00
ATOM	966	HB2	SER	X	63	46.004	57.337	29.366	0.00	0.00
ATOM	967	HB3	SER	X	63	45.599	57.779	27.685	0.00	0.00
ATOM	968	OG	SER	X	63	44.077	57.434	28.960	0.00	0.00
ATOM	969	HG	SER	X	63	43.904	58.375	29.040	0.00	0.00
ATOM	970	C	SER	X	63	45.593	54.732	29.266	0.00	0.00
ATOM	971	O	SER	X	63	44.640	53.868	29.171	0.00	0.00
ATOM	972	N	VAL	X	64	46.510	54.721	30.215	0.00	0.00
ATOM	973	H	VAL	X	64	47.223	55.433	30.151	0.00	0.00
ATOM	974	CA	VAL	X	64	46.606	53.857	31.475	0.00	0.00
ATOM	975	HA	VAL	X	64	45.618	53.420	31.622	0.00	0.00
ATOM	976	CB	VAL	X	64	47.590	52.612	31.406	0.00	0.00
ATOM	977	HB	VAL	X	64	48.578	53.001	31.158	0.00	0.00
ATOM	978	CG1	VAL	X	64	47.723	51.845	32.736	0.00	0.00
ATOM	979	HG11	VAL	X	64	48.388	51.012	32.508	0.00	0.00
ATOM	980	HG12	VAL	X	64	48.187	52.437	33.525	0.00	0.00
ATOM	981	HG13	VAL	X	64	46.736	51.450	32.976	0.00	0.00
ATOM	982	CG2	VAL	X	64	47.104	51.504	30.375	0.00	0.00
ATOM	983	HG21	VAL	X	64	46.163	51.107	30.756	0.00	0.00
ATOM	984	HG22	VAL	X	64	47.695	50.608	30.185	0.00	0.00
ATOM	985	HG23	VAL	X	64	46.795	51.997	29.453	0.00	0.00
ATOM	986	C	VAL	X	64	46.645	54.720	32.753	0.00	0.00
ATOM	987	O	VAL	X	64	47.074	55.881	32.656	0.00	0.00
ATOM	988	N	CYX	X	65	46.062	54.253	33.828	0.00	0.00
ATOM	989	H	CYX	X	65	45.765	53.291	33.900	0.00	0.00
ATOM	990	CA	CYX	X	65	45.912	54.969	35.077	0.00	0.00
ATOM	991	HA	CYX	X	65	45.558	55.972	34.842	0.00	0.00
ATOM	992	CB	CYX	X	65	44.993	54.208	35.988	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.411	53.202	36.032	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.968	54.715	36.952	0.00	0.00
ATOM	995	SG	CYX	X	65	43.249	54.259	35.264	0.00	0.00
ATOM	996	C	CYX	X	65	47.228	55.093	35.807	0.00	0.00
ATOM	997	O	CYX	X	65	47.968	54.104	35.984	0.00	0.00
ATOM	998	N	TYR	X	66	47.550	56.307	36.238	0.00	0.00
ATOM	999	H	TYR	X	66	46.876	57.031	36.037	0.00	0.00
ATOM	1000	CA	TYR	X	66	48.811	56.619	36.891	0.00	0.00
ATOM	1001	HA	TYR	X	66	49.608	56.755	36.161	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.750	58.023	37.512	0.00	0.00
ATOM	1003	HB2	TYR	X	66	47.742	58.408	37.666	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.395	57.883	38.380	0.00	0.00
ATOM	1005	CG	TYR	X	66	49.446	59.090	36.773	0.00	0.00
ATOM	1006	CD1	TYR	X	66	48.814	60.197	36.143	0.00	0.00
ATOM	1007	HD1	TYR	X	66	47.756	60.380	36.265	0.00	0.00
ATOM	1008	CE1	TYR	X	66	49.520	60.955	35.202	0.00	0.00
ATOM	1009	HE1	TYR	X	66	48.990	61.707	34.636	0.00	0.00
ATOM	1010	CZ	TYR	X	66	50.877	60.757	34.999	0.00	0.00
ATOM	1011	OH	TYR	X	66	51.486	61.470	34.098	0.00	0.00
ATOM	1012	HH	TYR	X	66	51.012	62.281	33.898	0.00	0.00
ATOM	1013	CE2	TYR	X	66	51.546	59.619	35.594	0.00	0.00
ATOM	1014	HE2	TYR	X	66	52.574	59.397	35.349	0.00	0.00
ATOM	1015	CD2	TYR	X	66	50.815	58.797	36.439	0.00	0.00
ATOM	1016	HD2	TYR	X	66	51.326	57.910	36.781	0.00	0.00
ATOM	1017	C	TYR	X	66	49.273	55.605	37.977	0.00	0.00
ATOM	1018	O	TYR	X	66	48.434	55.268	38.813	0.00	0.00
ATOM	1019	N	GLN	X	67	50.478	55.195	37.928	0.00	0.00
ATOM	1020	H	GLN	X	67	51.159	55.598	37.301	0.00	0.00
ATOM	1021	CA	GLN	X	67	50.977	54.052	38.812	0.00	0.00
ATOM	1022	HA	GLN	X	67	50.535	54.226	39.793	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.329	52.704	38.312	0.00	0.00

ATOM	1024	HB2	GLN	X	67	50.540	51.865	38.976	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.240	52.716	38.270	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.708	52.359	36.853	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.468	53.203	36.207	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.768	52.173	36.680	0.00	0.00
ATOM	1029	CD	GLN	X	67	49.922	51.149	36.456	0.00	0.00
ATOM	1030	OE1	GLN	X	67	50.309	49.963	36.616	0.00	0.00
ATOM	1031	NE2	GLN	X	67	48.797	51.371	35.868	0.00	0.00
ATOM	1032	HE21	GLN	X	67	48.217	50.582	35.622	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.484	52.301	35.627	0.00	0.00
ATOM	1034	C	GLN	X	67	52.436	53.950	38.924	0.00	0.00
ATOM	1035	O	GLN	X	67	53.184	54.775	38.307	0.00	0.00
ATOM	1036	N	TYR	X	68	52.916	52.894	39.639	0.00	0.00
ATOM	1037	H	TYR	X	68	52.279	52.339	40.192	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.333	52.517	39.586	0.00	0.00
ATOM	1039	HA	TYR	X	68	54.942	53.415	39.475	0.00	0.00
ATOM	1040	CB	TYR	X	68	54.725	51.815	40.909	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.804	52.491	41.760	0.00	0.00
ATOM	1042	HB3	TYR	X	68	54.027	51.050	41.249	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.093	51.042	40.851	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.262	51.739	41.184	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.165	52.749	41.554	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.488	51.072	41.069	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.432	51.597	41.092	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.536	49.727	40.694	0.00	0.00
ATOM	1049	OH	TYR	X	68	59.732	49.076	40.567	0.00	0.00
ATOM	1050	HH	TYR	X	68	60.437	49.726	40.527	0.00	0.00
ATOM	1051	CE2	TYR	X	68	57.384	49.013	40.393	0.00	0.00
ATOM	1052	HE2	TYR	X	68	57.344	47.949	40.213	0.00	0.00
ATOM	1053	CD2	TYR	X	68	56.102	49.683	40.516	0.00	0.00
ATOM	1054	HD2	TYR	X	68	55.174	49.274	40.145	0.00	0.00
ATOM	1055	C	TYR	X	68	54.586	51.637	38.333	0.00	0.00
ATOM	1056	O	TYR	X	68	54.084	50.509	38.249	0.00	0.00
ATOM	1057	N	VAL	X	69	55.411	52.129	37.401	0.00	0.00
ATOM	1058	H	VAL	X	69	55.854	53.021	37.569	0.00	0.00
ATOM	1059	CA	VAL	X	69	56.010	51.310	36.305	0.00	0.00
ATOM	1060	HA	VAL	X	69	55.394	50.510	35.894	0.00	0.00
ATOM	1061	CB	VAL	X	69	56.351	52.150	35.034	0.00	0.00
ATOM	1062	HB	VAL	X	69	56.883	51.559	34.289	0.00	0.00
ATOM	1063	CG1	VAL	X	69	55.030	52.464	34.329	0.00	0.00
ATOM	1064	HG11	VAL	X	69	54.635	51.536	33.916	0.00	0.00
ATOM	1065	HG12	VAL	X	69	54.345	53.062	34.930	0.00	0.00
ATOM	1066	HG13	VAL	X	69	55.279	53.102	33.481	0.00	0.00
ATOM	1067	CG2	VAL	X	69	57.247	53.400	35.228	0.00	0.00
ATOM	1068	HG21	VAL	X	69	56.813	54.291	35.683	0.00	0.00
ATOM	1069	HG22	VAL	X	69	57.486	53.638	34.192	0.00	0.00
ATOM	1070	HG23	VAL	X	69	58.179	53.067	35.686	0.00	0.00
ATOM	1071	C	VAL	X	69	57.197	50.527	36.877	0.00	0.00
ATOM	1072	O	VAL	X	69	57.732	51.010	37.820	0.00	0.00
ATOM	1073	N	ASP	X	70	57.527	49.433	36.239	0.00	0.00
ATOM	1074	H	ASP	X	70	57.029	49.146	35.408	0.00	0.00
ATOM	1075	CA	ASP	X	70	58.475	48.543	36.831	0.00	0.00
ATOM	1076	HA	ASP	X	70	58.323	48.371	37.897	0.00	0.00
ATOM	1077	CB	ASP	X	70	58.249	47.237	36.059	0.00	0.00
ATOM	1078	HB2	ASP	X	70	57.206	46.935	36.158	0.00	0.00
ATOM	1079	HB3	ASP	X	70	58.479	47.478	35.021	0.00	0.00
ATOM	1080	CG	ASP	X	70	59.093	46.133	36.553	0.00	0.00
ATOM	1081	OD1	ASP	X	70	60.034	46.361	37.355	0.00	0.00
ATOM	1082	OD2	ASP	X	70	58.756	44.950	36.313	0.00	0.00
ATOM	1083	C	ASP	X	70	59.953	49.082	36.600	0.00	0.00
ATOM	1084	O	ASP	X	70	60.489	49.198	35.508	0.00	0.00
ATOM	1085	N	THR	X	71	60.549	49.466	37.726	0.00	0.00
ATOM	1086	H	THR	X	71	60.032	49.232	38.562	0.00	0.00
ATOM	1087	CA	THR	X	71	62.017	49.869	37.825	0.00	0.00
ATOM	1088	HA	THR	X	71	62.382	49.995	36.806	0.00	0.00
ATOM	1089	CB	THR	X	71	61.978	51.218	38.522	0.00	0.00
ATOM	1090	HB	THR	X	71	62.983	51.622	38.641	0.00	0.00

ATOM	1091	CG2	THR	X	71	61.046	52.180	37.844	0.00	0.00
ATOM	1092	HG21	THR	X	71	61.404	53.206	37.933	0.00	0.00
ATOM	1093	HG22	THR	X	71	60.049	52.263	38.277	0.00	0.00
ATOM	1094	HG23	THR	X	71	60.890	51.991	36.782	0.00	0.00
ATOM	1095	OG1	THR	X	71	61.413	51.120	39.858	0.00	0.00
ATOM	1096	HG1	THR	X	71	61.711	51.912	40.311	0.00	0.00
ATOM	1097	C	THR	X	71	62.834	48.788	38.573	0.00	0.00
ATOM	1098	O	THR	X	71	64.009	48.967	38.850	0.00	0.00
ATOM	1099	N	LEU	X	72	62.110	47.746	39.052	0.00	0.00
ATOM	1100	H	LEU	X	72	61.216	47.540	38.631	0.00	0.00
ATOM	1101	CA	LEU	X	72	62.861	46.743	39.887	0.00	0.00
ATOM	1102	HA	LEU	X	72	63.688	47.248	40.386	0.00	0.00
ATOM	1103	CB	LEU	X	72	61.875	46.138	40.938	0.00	0.00
ATOM	1104	HB2	LEU	X	72	61.253	46.974	41.259	0.00	0.00
ATOM	1105	HB3	LEU	X	72	61.267	45.310	40.572	0.00	0.00
ATOM	1106	CG	LEU	X	72	62.565	45.732	42.299	0.00	0.00
ATOM	1107	HG	LEU	X	72	63.431	45.116	42.057	0.00	0.00
ATOM	1108	CD1	LEU	X	72	63.126	46.966	43.135	0.00	0.00
ATOM	1109	HD11	LEU	X	72	62.420	47.743	43.430	0.00	0.00
ATOM	1110	HD12	LEU	X	72	64.085	47.323	42.761	0.00	0.00
ATOM	1111	HD13	LEU	X	72	63.436	46.502	44.071	0.00	0.00
ATOM	1112	CD2	LEU	X	72	61.643	44.867	43.170	0.00	0.00
ATOM	1113	HD21	LEU	X	72	61.334	44.174	42.387	0.00	0.00
ATOM	1114	HD22	LEU	X	72	62.306	44.497	43.952	0.00	0.00
ATOM	1115	HD23	LEU	X	72	60.847	45.486	43.584	0.00	0.00
ATOM	1116	C	LEU	X	72	63.477	45.627	39.069	0.00	0.00
ATOM	1117	O	LEU	X	72	64.661	45.282	39.206	0.00	0.00
ATOM	1118	N	TYR	X	73	62.582	44.997	38.197	0.00	0.00
ATOM	1119	H	TYR	X	73	61.615	45.285	38.147	0.00	0.00
ATOM	1120	CA	TYR	X	73	63.037	44.075	37.162	0.00	0.00
ATOM	1121	HA	TYR	X	73	64.124	44.019	37.224	0.00	0.00
ATOM	1122	CB	TYR	X	73	62.647	42.615	37.561	0.00	0.00
ATOM	1123	HB2	TYR	X	73	61.575	42.536	37.742	0.00	0.00
ATOM	1124	HB3	TYR	X	73	62.854	41.885	36.778	0.00	0.00
ATOM	1125	CG	TYR	X	73	63.233	42.151	38.891	0.00	0.00
ATOM	1126	CD1	TYR	X	73	64.646	42.102	38.983	0.00	0.00
ATOM	1127	HD1	TYR	X	73	65.175	42.520	38.139	0.00	0.00
ATOM	1128	CE1	TYR	X	73	65.287	41.867	40.198	0.00	0.00
ATOM	1129	HE1	TYR	X	73	66.357	41.931	40.326	0.00	0.00
ATOM	1130	CZ	TYR	X	73	64.414	41.751	41.363	0.00	0.00
ATOM	1131	OH	TYR	X	73	65.002	41.839	42.631	0.00	0.00
ATOM	1132	HH	TYR	X	73	64.292	41.715	43.265	0.00	0.00
ATOM	1133	CE2	TYR	X	73	63.008	41.643	41.244	0.00	0.00
ATOM	1134	HE2	TYR	X	73	62.414	41.508	42.137	0.00	0.00
ATOM	1135	CD2	TYR	X	73	62.451	41.813	40.020	0.00	0.00
ATOM	1136	HD2	TYR	X	73	61.376	41.724	39.972	0.00	0.00
ATOM	1137	C	TYR	X	73	62.568	44.566	35.743	0.00	0.00
ATOM	1138	O	TYR	X	73	61.778	43.797	35.155	0.00	0.00
ATOM	1139	N	PRO	X	74	62.977	45.788	35.248	0.00	0.00
ATOM	1140	CD	PRO	X	74	64.057	46.611	35.914	0.00	0.00
ATOM	1141	HD2	PRO	X	74	64.919	46.093	36.334	0.00	0.00
ATOM	1142	HD3	PRO	X	74	63.734	47.200	36.772	0.00	0.00
ATOM	1143	CG	PRO	X	74	64.603	47.579	34.872	0.00	0.00
ATOM	1144	HG2	PRO	X	74	65.449	47.177	34.314	0.00	0.00
ATOM	1145	HG3	PRO	X	74	64.764	48.591	35.244	0.00	0.00
ATOM	1146	CB	PRO	X	74	63.413	47.707	33.902	0.00	0.00
ATOM	1147	HB2	PRO	X	74	63.759	47.827	32.875	0.00	0.00
ATOM	1148	HB3	PRO	X	74	62.762	48.532	34.191	0.00	0.00
ATOM	1149	CA	PRO	X	74	62.654	46.383	34.027	0.00	0.00
ATOM	1150	HA	PRO	X	74	61.573	46.482	34.125	0.00	0.00
ATOM	1151	C	PRO	X	74	62.920	45.390	32.858	0.00	0.00
ATOM	1152	O	PRO	X	74	63.985	44.901	32.864	0.00	0.00
ATOM	1153	N	GLY	X	75	62.032	45.192	31.916	0.00	0.00
ATOM	1154	H	GLY	X	75	61.114	45.604	32.005	0.00	0.00
ATOM	1155	CA	GLY	X	75	62.087	44.407	30.657	0.00	0.00
ATOM	1156	HA2	GLY	X	75	61.228	44.687	30.047	0.00	0.00
ATOM	1157	HA3	GLY	X	75	62.972	44.777	30.140	0.00	0.00

ATOM	1158	C	GLY	X	75	62.225	42.926	30.745	0.00	0.00
ATOM	1159	O	GLY	X	75	62.418	42.251	29.750	0.00	0.00
ATOM	1160	N	PHE	X	76	62.385	42.349	31.959	0.00	0.00
ATOM	1161	H	PHE	X	76	62.453	42.935	32.779	0.00	0.00
ATOM	1162	CA	PHE	X	76	62.774	40.924	32.102	0.00	0.00
ATOM	1163	HA	PHE	X	76	63.687	40.704	31.548	0.00	0.00
ATOM	1164	CB	PHE	X	76	63.167	40.681	33.568	0.00	0.00
ATOM	1165	HB2	PHE	X	76	64.116	41.179	33.765	0.00	0.00
ATOM	1166	HB3	PHE	X	76	62.481	41.242	34.204	0.00	0.00
ATOM	1167	CG	PHE	X	76	63.128	39.250	34.075	0.00	0.00
ATOM	1168	CD1	PHE	X	76	64.232	38.396	33.773	0.00	0.00
ATOM	1169	HD1	PHE	X	76	65.009	38.822	33.155	0.00	0.00
ATOM	1170	CE1	PHE	X	76	64.289	37.154	34.381	0.00	0.00
ATOM	1171	HE1	PHE	X	76	65.159	36.520	34.297	0.00	0.00
ATOM	1172	CZ	PHE	X	76	63.407	36.800	35.381	0.00	0.00
ATOM	1173	HZ	PHE	X	76	63.620	35.893	35.927	0.00	0.00
ATOM	1174	CE2	PHE	X	76	62.273	37.599	35.619	0.00	0.00
ATOM	1175	HE2	PHE	X	76	61.529	37.331	36.354	0.00	0.00
ATOM	1176	CD2	PHE	X	76	62.157	38.877	34.980	0.00	0.00
ATOM	1177	HD2	PHE	X	76	61.218	39.400	35.088	0.00	0.00
ATOM	1178	C	PHE	X	76	61.684	40.001	31.627	0.00	0.00
ATOM	1179	O	PHE	X	76	60.475	40.337	31.807	0.00	0.00
ATOM	1180	N	GLU	X	77	62.087	38.874	31.019	0.00	0.00
ATOM	1181	H	GLU	X	77	63.068	38.655	30.922	0.00	0.00
ATOM	1182	CA	GLU	X	77	61.128	38.023	30.332	0.00	0.00
ATOM	1183	HA	GLU	X	77	60.583	38.606	29.589	0.00	0.00
ATOM	1184	CB	GLU	X	77	61.812	36.932	29.511	0.00	0.00
ATOM	1185	HB2	GLU	X	77	62.746	36.631	29.987	0.00	0.00
ATOM	1186	HB3	GLU	X	77	61.140	36.080	29.416	0.00	0.00
ATOM	1187	CG	GLU	X	77	62.170	37.302	28.052	0.00	0.00
ATOM	1188	HG2	GLU	X	77	62.304	36.326	27.586	0.00	0.00
ATOM	1189	HG3	GLU	X	77	61.323	37.775	27.556	0.00	0.00
ATOM	1190	CD	GLU	X	77	63.351	38.170	27.928	0.00	0.00
ATOM	1191	OE1	GLU	X	77	64.477	37.615	27.786	0.00	0.00
ATOM	1192	OE2	GLU	X	77	63.139	39.352	27.785	0.00	0.00
ATOM	1193	C	GLU	X	77	60.131	37.471	31.353	0.00	0.00
ATOM	1194	O	GLU	X	77	59.082	37.044	30.953	0.00	0.00
ATOM	1195	N	GLY	X	78	60.463	37.376	32.647	0.00	0.00
ATOM	1196	H	GLY	X	78	61.424	37.535	32.914	0.00	0.00
ATOM	1197	CA	GLY	X	78	59.461	37.065	33.713	0.00	0.00
ATOM	1198	HA2	GLY	X	78	58.794	36.281	33.354	0.00	0.00
ATOM	1199	HA3	GLY	X	78	60.068	36.756	34.564	0.00	0.00
ATOM	1200	C	GLY	X	78	58.490	38.137	34.202	0.00	0.00
ATOM	1201	O	GLY	X	78	57.699	37.828	35.036	0.00	0.00
ATOM	1202	N	THR	X	79	58.584	39.366	33.775	0.00	0.00
ATOM	1203	H	THR	X	79	59.331	39.543	33.118	0.00	0.00
ATOM	1204	CA	THR	X	79	57.851	40.469	34.418	0.00	0.00
ATOM	1205	HA	THR	X	79	57.004	40.118	35.007	0.00	0.00
ATOM	1206	CB	THR	X	79	58.684	41.362	35.361	0.00	0.00
ATOM	1207	HB	THR	X	79	58.130	42.215	35.753	0.00	0.00
ATOM	1208	CG2	THR	X	79	59.125	40.548	36.563	0.00	0.00
ATOM	1209	HG21	THR	X	79	58.331	40.271	37.257	0.00	0.00
ATOM	1210	HG22	THR	X	79	59.909	41.059	37.122	0.00	0.00
ATOM	1211	HG23	THR	X	79	59.584	39.596	36.294	0.00	0.00
ATOM	1212	OG1	THR	X	79	59.781	41.737	34.573	0.00	0.00
ATOM	1213	HG1	THR	X	79	60.314	42.323	35.115	0.00	0.00
ATOM	1214	C	THR	X	79	57.223	41.428	33.470	0.00	0.00
ATOM	1215	O	THR	X	79	56.419	42.266	33.920	0.00	0.00
ATOM	1216	N	GLU	X	80	57.581	41.418	32.177	0.00	0.00
ATOM	1217	H	GLU	X	80	58.285	40.788	31.818	0.00	0.00
ATOM	1218	CA	GLU	X	80	57.160	42.467	31.245	0.00	0.00
ATOM	1219	HA	GLU	X	80	57.397	43.463	31.618	0.00	0.00
ATOM	1220	CB	GLU	X	80	58.021	42.429	29.979	0.00	0.00
ATOM	1221	HB2	GLU	X	80	57.800	43.267	29.317	0.00	0.00
ATOM	1222	HB3	GLU	X	80	59.013	42.650	30.373	0.00	0.00
ATOM	1223	CG	GLU	X	80	58.079	41.068	29.227	0.00	0.00
ATOM	1224	HG2	GLU	X	80	58.441	40.389	29.999	0.00	0.00

ATOM	1225	HG3	GLU	X	80	57.112	40.768	28.824	0.00	0.00
ATOM	1226	CD	GLU	X	80	59.161	41.133	28.128	0.00	0.00
ATOM	1227	OE1	GLU	X	80	59.814	40.119	27.908	0.00	0.00
ATOM	1228	OE2	GLU	X	80	59.477	42.194	27.568	0.00	0.00
ATOM	1229	C	GLU	X	80	55.664	42.437	30.821	0.00	0.00
ATOM	1230	O	GLU	X	80	55.203	43.309	30.069	0.00	0.00
ATOM	1231	N	MET	X	81	54.753	41.452	31.095	0.00	0.00
ATOM	1232	H	MET	X	81	55.071	40.670	31.650	0.00	0.00
ATOM	1233	CA	MET	X	81	53.289	41.415	30.871	0.00	0.00
ATOM	1234	HA	MET	X	81	53.115	41.829	29.878	0.00	0.00
ATOM	1235	CB	MET	X	81	52.891	39.919	31.079	0.00	0.00
ATOM	1236	HB2	MET	X	81	51.811	39.789	31.012	0.00	0.00
ATOM	1237	HB3	MET	X	81	53.414	39.318	30.335	0.00	0.00
ATOM	1238	CG	MET	X	81	53.215	39.400	32.455	0.00	0.00
ATOM	1239	HG2	MET	X	81	52.688	40.057	33.146	0.00	0.00
ATOM	1240	HG3	MET	X	81	52.643	38.472	32.492	0.00	0.00
ATOM	1241	SD	MET	X	81	54.954	39.078	33.015	0.00	0.00
ATOM	1242	CE	MET	X	81	55.585	37.999	31.619	0.00	0.00
ATOM	1243	HE1	MET	X	81	56.570	37.577	31.816	0.00	0.00
ATOM	1244	HE2	MET	X	81	54.756	37.341	31.359	0.00	0.00
ATOM	1245	HE3	MET	X	81	55.741	38.701	30.800	0.00	0.00
ATOM	1246	C	MET	X	81	52.491	42.160	31.880	0.00	0.00
ATOM	1247	O	MET	X	81	51.346	42.502	31.636	0.00	0.00
ATOM	1248	N	TRP	X	82	53.000	42.427	33.058	0.00	0.00
ATOM	1249	H	TRP	X	82	53.980	42.216	33.179	0.00	0.00
ATOM	1250	CA	TRP	X	82	52.345	43.363	34.030	0.00	0.00
ATOM	1251	HA	TRP	X	82	51.303	43.133	34.253	0.00	0.00
ATOM	1252	CB	TRP	X	82	52.914	43.083	35.411	0.00	0.00
ATOM	1253	HB2	TRP	X	82	53.958	43.396	35.393	0.00	0.00
ATOM	1254	HB3	TRP	X	82	52.547	43.780	36.163	0.00	0.00
ATOM	1255	CG	TRP	X	82	52.829	41.671	35.828	0.00	0.00
ATOM	1256	CD1	TRP	X	82	53.857	40.933	36.328	0.00	0.00
ATOM	1257	HD1	TRP	X	82	54.850	41.276	36.576	0.00	0.00
ATOM	1258	NE1	TRP	X	82	53.499	39.614	36.511	0.00	0.00
ATOM	1259	HE1	TRP	X	82	54.087	38.974	37.026	0.00	0.00
ATOM	1260	CE2	TRP	X	82	52.282	39.321	36.018	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	51.486	38.115	35.952	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	51.823	37.169	36.350	0.00	0.00
ATOM	1263	CH2	TRP	X	82	50.195	38.224	35.456	0.00	0.00
ATOM	1264	HH2	TRP	X	82	49.572	37.373	35.226	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	49.666	39.490	35.074	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	48.627	39.481	34.779	0.00	0.00
ATOM	1267	CE3	TRP	X	82	50.483	40.662	35.216	0.00	0.00
ATOM	1268	HE3	TRP	X	82	49.965	41.588	35.018	0.00	0.00
ATOM	1269	CD2	TRP	X	82	51.783	40.654	35.669	0.00	0.00
ATOM	1270	C	TRP	X	82	52.468	44.855	33.596	0.00	0.00
ATOM	1271	O	TRP	X	82	51.661	45.727	33.945	0.00	0.00
ATOM	1272	N	ASN	X	83	53.452	45.070	32.757	0.00	0.00
ATOM	1273	H	ASN	X	83	53.904	44.232	32.421	0.00	0.00
ATOM	1274	CA	ASN	X	83	53.771	46.409	32.297	0.00	0.00
ATOM	1275	HA	ASN	X	83	53.689	47.011	33.202	0.00	0.00
ATOM	1276	CB	ASN	X	83	55.248	46.506	31.835	0.00	0.00
ATOM	1277	HB2	ASN	X	83	55.861	46.292	32.710	0.00	0.00
ATOM	1278	HB3	ASN	X	83	55.498	45.790	31.053	0.00	0.00
ATOM	1279	CG	ASN	X	83	55.498	47.994	31.422	0.00	0.00
ATOM	1280	OD1	ASN	X	83	55.726	48.198	30.242	0.00	0.00
ATOM	1281	ND2	ASN	X	83	55.456	48.878	32.401	0.00	0.00
ATOM	1282	HD21	ASN	X	83	55.551	49.847	32.133	0.00	0.00
ATOM	1283	HD22	ASN	X	83	55.038	48.538	33.255	0.00	0.00
ATOM	1284	C	ASN	X	83	52.772	46.912	31.222	0.00	0.00
ATOM	1285	O	ASN	X	83	52.668	46.311	30.143	0.00	0.00
ATOM	1286	N	PRO	X	84	52.053	48.080	31.487	0.00	0.00
ATOM	1287	CD	PRO	X	84	51.765	48.667	32.783	0.00	0.00
ATOM	1288	HD2	PRO	X	84	52.695	48.604	33.348	0.00	0.00
ATOM	1289	HD3	PRO	X	84	50.884	48.203	33.226	0.00	0.00
ATOM	1290	CG	PRO	X	84	51.311	50.106	32.571	0.00	0.00
ATOM	1291	HG2	PRO	X	84	52.162	50.778	32.462	0.00	0.00

ATOM	1292	HG3	PRO	X	84	50.694	50.491	33.383	0.00	0.00
ATOM	1293	CB	PRO	X	84	50.406	49.805	31.309	0.00	0.00
ATOM	1294	HB2	PRO	X	84	50.267	50.703	30.707	0.00	0.00
ATOM	1295	HB3	PRO	X	84	49.433	49.441	31.638	0.00	0.00
ATOM	1296	CA	PRO	X	84	51.194	48.762	30.532	0.00	0.00
ATOM	1297	HA	PRO	X	84	50.446	48.172	30.003	0.00	0.00
ATOM	1298	C	PRO	X	84	52.129	49.435	29.453	0.00	0.00
ATOM	1299	O	PRO	X	84	53.010	50.176	29.814	0.00	0.00
ATOM	1300	N	ASN	X	85	51.923	49.118	28.175	0.00	0.00
ATOM	1301	H	ASN	X	85	51.179	48.507	27.871	0.00	0.00
ATOM	1302	CA	ASN	X	85	52.676	49.743	27.050	0.00	0.00
ATOM	1303	HA	ASN	X	85	53.739	49.829	27.274	0.00	0.00
ATOM	1304	CB	ASN	X	85	52.748	48.740	25.875	0.00	0.00
ATOM	1305	HB2	ASN	X	85	53.393	49.178	25.114	0.00	0.00
ATOM	1306	HB3	ASN	X	85	53.235	47.864	26.304	0.00	0.00
ATOM	1307	CG	ASN	X	85	51.398	48.344	25.231	0.00	0.00
ATOM	1308	OD1	ASN	X	85	50.376	49.015	25.461	0.00	0.00
ATOM	1309	ND2	ASN	X	85	51.471	47.488	24.209	0.00	0.00
ATOM	1310	HD21	ASN	X	85	50.663	47.317	23.628	0.00	0.00
ATOM	1311	HD22	ASN	X	85	52.380	47.083	24.040	0.00	0.00
ATOM	1312	C	ASN	X	85	52.219	51.148	26.665	0.00	0.00
ATOM	1313	O	ASN	X	85	52.907	51.896	26.005	0.00	0.00
ATOM	1314	N	ARG	X	86	51.013	51.520	27.054	0.00	0.00
ATOM	1315	H	ARG	X	86	50.482	50.779	27.490	0.00	0.00
ATOM	1316	CA	ARG	X	86	50.390	52.765	26.785	0.00	0.00
ATOM	1317	HA	ARG	X	86	50.651	53.046	25.765	0.00	0.00
ATOM	1318	CB	ARG	X	86	48.829	52.579	26.882	0.00	0.00
ATOM	1319	HB2	ARG	X	86	48.532	52.532	27.930	0.00	0.00
ATOM	1320	HB3	ARG	X	86	48.320	53.492	26.572	0.00	0.00
ATOM	1321	CG	ARG	X	86	48.162	51.365	26.112	0.00	0.00
ATOM	1322	HG2	ARG	X	86	48.601	50.405	26.385	0.00	0.00
ATOM	1323	HG3	ARG	X	86	47.085	51.303	26.273	0.00	0.00
ATOM	1324	CD	ARG	X	86	48.314	51.543	24.613	0.00	0.00
ATOM	1325	HD2	ARG	X	86	47.813	52.435	24.238	0.00	0.00
ATOM	1326	HD3	ARG	X	86	49.380	51.634	24.405	0.00	0.00
ATOM	1327	NE	ARG	X	86	47.839	50.323	23.909	0.00	0.00
ATOM	1328	HE	ARG	X	86	47.736	49.490	24.471	0.00	0.00
ATOM	1329	CZ	ARG	X	86	47.906	50.075	22.643	0.00	0.00
ATOM	1330	NH1	ARG	X	86	48.337	51.005	21.862	0.00	0.00
ATOM	1331	HH11	ARG	X	86	48.741	51.895	22.116	0.00	0.00
ATOM	1332	HH12	ARG	X	86	48.122	50.845	20.888	0.00	0.00
ATOM	1333	NH2	ARG	X	86	47.422	48.957	22.209	0.00	0.00
ATOM	1334	HH21	ARG	X	86	47.178	48.211	22.846	0.00	0.00
ATOM	1335	HH22	ARG	X	86	47.553	48.678	21.247	0.00	0.00
ATOM	1336	C	ARG	X	86	50.846	53.934	27.677	0.00	0.00
ATOM	1337	O	ARG	X	86	51.448	53.757	28.775	0.00	0.00
ATOM	1338	N	GLU	X	87	50.398	55.155	27.414	0.00	0.00
ATOM	1339	H	GLU	X	87	49.777	55.250	26.623	0.00	0.00
ATOM	1340	CA	GLU	X	87	50.765	56.408	28.112	0.00	0.00
ATOM	1341	HA	GLU	X	87	51.838	56.414	28.305	0.00	0.00
ATOM	1342	CB	GLU	X	87	50.489	57.559	27.040	0.00	0.00
ATOM	1343	HB2	GLU	X	87	50.945	57.261	26.096	0.00	0.00
ATOM	1344	HB3	GLU	X	87	49.409	57.683	26.964	0.00	0.00
ATOM	1345	CG	GLU	X	87	51.109	58.858	27.572	0.00	0.00
ATOM	1346	HG2	GLU	X	87	50.486	59.244	28.378	0.00	0.00
ATOM	1347	HG3	GLU	X	87	52.152	58.684	27.837	0.00	0.00
ATOM	1348	CD	GLU	X	87	51.076	59.962	26.508	0.00	0.00
ATOM	1349	OE1	GLU	X	87	50.052	60.248	25.923	0.00	0.00
ATOM	1350	OE2	GLU	X	87	52.123	60.506	26.189	0.00	0.00
ATOM	1351	C	GLU	X	87	50.001	56.493	29.470	0.00	0.00
ATOM	1352	O	GLU	X	87	48.787	56.170	29.611	0.00	0.00
ATOM	1353	N	LEU	X	88	50.741	56.898	30.538	0.00	0.00
ATOM	1354	H	LEU	X	88	51.740	57.030	30.591	0.00	0.00
ATOM	1355	CA	LEU	X	88	50.111	57.182	31.864	0.00	0.00
ATOM	1356	HA	LEU	X	88	49.355	56.423	32.065	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.256	57.085	32.914	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.042	57.839	32.875	0.00	0.00

ATOM	1359	HB3	LEU	X	88	50.853	57.379	33.884	0.00	0.00
ATOM	1360	CG	LEU	X	88	52.023	55.703	33.054	0.00	0.00
ATOM	1361	HG	LEU	X	88	52.453	55.423	32.092	0.00	0.00
ATOM	1362	CD1	LEU	X	88	53.115	55.934	34.095	0.00	0.00
ATOM	1363	HD11	LEU	X	88	52.671	56.185	35.058	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.744	56.773	33.796	0.00	0.00
ATOM	1365	HD13	LEU	X	88	53.808	55.095	34.040	0.00	0.00
ATOM	1366	CD2	LEU	X	88	51.016	54.688	33.558	0.00	0.00
ATOM	1367	HD21	LEU	X	88	50.077	54.585	33.014	0.00	0.00
ATOM	1368	HD22	LEU	X	88	51.401	53.669	33.577	0.00	0.00
ATOM	1369	HD23	LEU	X	88	50.791	54.973	34.586	0.00	0.00
ATOM	1370	C	LEU	X	88	49.345	58.477	31.844	0.00	0.00
ATOM	1371	O	LEU	X	88	49.740	59.456	31.221	0.00	0.00
ATOM	1372	N	SER	X	89	48.297	58.599	32.616	0.00	0.00
ATOM	1373	H	SER	X	89	48.033	57.708	33.011	0.00	0.00
ATOM	1374	CA	SER	X	89	47.272	59.629	32.620	0.00	0.00
ATOM	1375	HA	SER	X	89	47.809	60.577	32.584	0.00	0.00
ATOM	1376	CB	SER	X	89	46.305	59.496	31.427	0.00	0.00
ATOM	1377	HB2	SER	X	89	47.003	59.416	30.594	0.00	0.00
ATOM	1378	HB3	SER	X	89	45.812	58.527	31.498	0.00	0.00
ATOM	1379	OG	SER	X	89	45.534	60.641	31.363	0.00	0.00
ATOM	1380	HG	SER	X	89	45.064	60.638	30.526	0.00	0.00
ATOM	1381	C	SER	X	89	46.428	59.612	33.899	0.00	0.00
ATOM	1382	O	SER	X	89	46.299	58.571	34.550	0.00	0.00
ATOM	1383	N	GLU	X	90	45.850	60.779	34.248	0.00	0.00
ATOM	1384	H	GLU	X	90	46.013	61.592	33.671	0.00	0.00
ATOM	1385	CA	GLU	X	90	44.779	60.897	35.213	0.00	0.00
ATOM	1386	HA	GLU	X	90	45.113	60.291	36.055	0.00	0.00
ATOM	1387	CB	GLU	X	90	44.508	62.304	35.784	0.00	0.00
ATOM	1388	HB2	GLU	X	90	44.534	62.927	34.890	0.00	0.00
ATOM	1389	HB3	GLU	X	90	43.560	62.242	36.319	0.00	0.00
ATOM	1390	CG	GLU	X	90	45.662	62.985	36.532	0.00	0.00
ATOM	1391	HG2	GLU	X	90	45.859	62.317	37.371	0.00	0.00
ATOM	1392	HG3	GLU	X	90	46.587	62.916	35.960	0.00	0.00
ATOM	1393	CD	GLU	X	90	45.283	64.405	37.020	0.00	0.00
ATOM	1394	OE1	GLU	X	90	44.741	64.487	38.139	0.00	0.00
ATOM	1395	OE2	GLU	X	90	45.654	65.391	36.345	0.00	0.00
ATOM	1396	C	GLU	X	90	43.419	60.458	34.616	0.00	0.00
ATOM	1397	O	GLU	X	90	42.809	59.502	35.116	0.00	0.00
ATOM	1398	N	ASP	X	91	42.959	61.143	33.591	0.00	0.00
ATOM	1399	H	ASP	X	91	43.554	61.900	33.285	0.00	0.00
ATOM	1400	CA	ASP	X	91	41.825	60.803	32.589	0.00	0.00
ATOM	1401	HA	ASP	X	91	40.925	60.694	33.195	0.00	0.00
ATOM	1402	CB	ASP	X	91	41.453	62.014	31.775	0.00	0.00
ATOM	1403	HB2	ASP	X	91	40.773	61.679	30.992	0.00	0.00
ATOM	1404	HB3	ASP	X	91	40.997	62.840	32.321	0.00	0.00
ATOM	1405	CG	ASP	X	91	42.660	62.621	31.070	0.00	0.00
ATOM	1406	OD1	ASP	X	91	43.492	63.227	31.779	0.00	0.00
ATOM	1407	OD2	ASP	X	91	42.688	62.546	29.813	0.00	0.00
ATOM	1408	C	ASP	X	91	41.906	59.436	31.867	0.00	0.00
ATOM	1409	O	ASP	X	91	41.982	59.349	30.676	0.00	0.00
ATOM	1410	N	CYX	X	92	41.954	58.462	32.714	0.00	0.00
ATOM	1411	H	CYX	X	92	42.171	58.774	33.650	0.00	0.00
ATOM	1412	CA	CYX	X	92	42.385	57.138	32.270	0.00	0.00
ATOM	1413	HA	CYX	X	92	42.840	57.144	31.280	0.00	0.00
ATOM	1414	CB	CYX	X	92	43.426	56.614	33.242	0.00	0.00
ATOM	1415	HB2	CYX	X	92	43.884	55.679	32.921	0.00	0.00
ATOM	1416	HB3	CYX	X	92	44.199	57.377	33.333	0.00	0.00
ATOM	1417	SG	CYX	X	92	42.857	56.225	34.960	0.00	0.00
ATOM	1418	C	CYX	X	92	41.251	56.088	32.177	0.00	0.00
ATOM	1419	O	CYX	X	92	41.453	54.958	31.692	0.00	0.00
ATOM	1420	N	LEU	X	93	40.055	56.350	32.705	0.00	0.00
ATOM	1421	H	LEU	X	93	39.791	57.244	33.094	0.00	0.00
ATOM	1422	CA	LEU	X	93	39.044	55.276	32.916	0.00	0.00
ATOM	1423	HA	LEU	X	93	39.603	54.436	33.329	0.00	0.00
ATOM	1424	CB	LEU	X	93	37.976	55.719	34.015	0.00	0.00
ATOM	1425	HB2	LEU	X	93	37.547	56.662	33.673	0.00	0.00

ATOM	1426	HB3	LEU	X	93	37.173	54.988	34.114	0.00	0.00
ATOM	1427	CG	LEU	X	93	38.476	56.149	35.401	0.00	0.00
ATOM	1428	HG	LEU	X	93	39.276	56.889	35.375	0.00	0.00
ATOM	1429	CD1	LEU	X	93	37.248	56.718	36.128	0.00	0.00
ATOM	1430	HD11	LEU	X	93	36.505	55.922	36.077	0.00	0.00
ATOM	1431	HD12	LEU	X	93	36.906	57.573	35.544	0.00	0.00
ATOM	1432	HD13	LEU	X	93	37.456	57.042	37.147	0.00	0.00
ATOM	1433	CD2	LEU	X	93	38.941	54.907	36.194	0.00	0.00
ATOM	1434	HD21	LEU	X	93	39.762	54.422	35.667	0.00	0.00
ATOM	1435	HD22	LEU	X	93	39.352	55.325	37.113	0.00	0.00
ATOM	1436	HD23	LEU	X	93	38.057	54.272	36.254	0.00	0.00
ATOM	1437	C	LEU	X	93	38.340	54.958	31.640	0.00	0.00
ATOM	1438	O	LEU	X	93	37.735	55.866	31.036	0.00	0.00
ATOM	1439	N	TYR	X	94	38.311	53.682	31.262	0.00	0.00
ATOM	1440	H	TYR	X	94	38.940	53.053	31.741	0.00	0.00
ATOM	1441	CA	TYR	X	94	37.526	53.139	30.136	0.00	0.00
ATOM	1442	HA	TYR	X	94	36.572	53.667	30.143	0.00	0.00
ATOM	1443	CB	TYR	X	94	38.335	53.199	28.789	0.00	0.00
ATOM	1444	HB2	TYR	X	94	38.972	52.318	28.870	0.00	0.00
ATOM	1445	HB3	TYR	X	94	37.623	53.121	27.968	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.263	54.380	28.560	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.738	55.486	27.819	0.00	0.00
ATOM	1448	HD1	TYR	X	94	37.691	55.395	27.572	0.00	0.00
ATOM	1449	CE1	TYR	X	94	39.533	56.549	27.266	0.00	0.00
ATOM	1450	HE1	TYR	X	94	39.159	57.323	26.613	0.00	0.00
ATOM	1451	CZ	TYR	X	94	40.869	56.584	27.768	0.00	0.00
ATOM	1452	OH	TYR	X	94	41.674	57.555	27.396	0.00	0.00
ATOM	1453	HH	TYR	X	94	42.599	57.338	27.532	0.00	0.00
ATOM	1454	CE2	TYR	X	94	41.365	55.545	28.644	0.00	0.00
ATOM	1455	HE2	TYR	X	94	42.314	55.731	29.126	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.599	54.415	29.003	0.00	0.00
ATOM	1457	HD2	TYR	X	94	40.903	53.690	29.743	0.00	0.00
ATOM	1458	C	TYR	X	94	37.083	51.657	30.375	0.00	0.00
ATOM	1459	O	TYR	X	94	37.733	50.968	31.204	0.00	0.00
ATOM	1460	N	LEU	X	95	35.987	51.284	29.751	0.00	0.00
ATOM	1461	H	LEU	X	95	35.646	52.054	29.193	0.00	0.00
ATOM	1462	CA	LEU	X	95	35.378	50.017	29.672	0.00	0.00
ATOM	1463	HA	LEU	X	95	35.667	49.313	30.452	0.00	0.00
ATOM	1464	CB	LEU	X	95	33.801	50.132	29.891	0.00	0.00
ATOM	1465	HB2	LEU	X	95	33.641	50.985	30.552	0.00	0.00
ATOM	1466	HB3	LEU	X	95	33.348	50.384	28.932	0.00	0.00
ATOM	1467	CG	LEU	X	95	33.053	48.939	30.590	0.00	0.00
ATOM	1468	HG	LEU	X	95	33.809	48.355	31.116	0.00	0.00
ATOM	1469	CD1	LEU	X	95	31.828	49.450	31.494	0.00	0.00
ATOM	1470	HD11	LEU	X	95	32.306	50.132	32.197	0.00	0.00
ATOM	1471	HD12	LEU	X	95	31.364	48.673	32.102	0.00	0.00
ATOM	1472	HD13	LEU	X	95	31.141	50.095	30.945	0.00	0.00
ATOM	1473	CD2	LEU	X	95	32.447	48.070	29.565	0.00	0.00
ATOM	1474	HD21	LEU	X	95	32.040	48.780	28.844	0.00	0.00
ATOM	1475	HD22	LEU	X	95	33.200	47.544	28.978	0.00	0.00
ATOM	1476	HD23	LEU	X	95	31.749	47.351	29.993	0.00	0.00
ATOM	1477	C	LEU	X	95	35.684	49.279	28.281	0.00	0.00
ATOM	1478	O	LEU	X	95	36.115	49.987	27.327	0.00	0.00
ATOM	1479	N	ASN	X	96	35.626	47.964	28.254	0.00	0.00
ATOM	1480	H	ASN	X	96	35.398	47.387	29.050	0.00	0.00
ATOM	1481	CA	ASN	X	96	36.018	47.076	27.099	0.00	0.00
ATOM	1482	HA	ASN	X	96	35.929	47.644	26.173	0.00	0.00
ATOM	1483	CB	ASN	X	96	37.541	46.694	27.301	0.00	0.00
ATOM	1484	HB2	ASN	X	96	37.602	46.049	28.177	0.00	0.00
ATOM	1485	HB3	ASN	X	96	38.008	46.150	26.479	0.00	0.00
ATOM	1486	CG	ASN	X	96	38.447	47.883	27.656	0.00	0.00
ATOM	1487	OD1	ASN	X	96	38.900	48.727	26.832	0.00	0.00
ATOM	1488	ND2	ASN	X	96	38.785	47.937	28.928	0.00	0.00
ATOM	1489	HD21	ASN	X	96	39.256	48.748	29.302	0.00	0.00
ATOM	1490	HD22	ASN	X	96	38.428	47.316	29.641	0.00	0.00
ATOM	1491	C	ASN	X	96	35.221	45.789	27.068	0.00	0.00
ATOM	1492	O	ASN	X	96	34.740	45.324	28.145	0.00	0.00

ATOM	1493	N	VAL	X	97	34.918	45.230	25.874	0.00	0.00
ATOM	1494	H	VAL	X	97	35.389	45.626	25.073	0.00	0.00
ATOM	1495	CA	VAL	X	97	33.980	44.111	25.578	0.00	0.00
ATOM	1496	HA	VAL	X	97	33.913	43.477	26.462	0.00	0.00
ATOM	1497	CB	VAL	X	97	32.596	44.624	25.189	0.00	0.00
ATOM	1498	HB	VAL	X	97	32.681	45.055	24.192	0.00	0.00
ATOM	1499	CG1	VAL	X	97	31.581	43.474	25.202	0.00	0.00
ATOM	1500	HG11	VAL	X	97	31.382	43.041	26.183	0.00	0.00
ATOM	1501	HG12	VAL	X	97	30.613	43.936	25.008	0.00	0.00
ATOM	1502	HG13	VAL	X	97	31.874	42.673	24.523	0.00	0.00
ATOM	1503	CG2	VAL	X	97	31.989	45.813	25.945	0.00	0.00
ATOM	1504	HG21	VAL	X	97	32.087	45.668	27.021	0.00	0.00
ATOM	1505	HG22	VAL	X	97	30.906	45.923	25.883	0.00	0.00
ATOM	1506	HG23	VAL	X	97	32.473	46.755	25.690	0.00	0.00
ATOM	1507	C	VAL	X	97	34.672	43.336	24.485	0.00	0.00
ATOM	1508	O	VAL	X	97	35.109	43.884	23.448	0.00	0.00
ATOM	1509	N	TRP	X	98	34.612	41.989	24.649	0.00	0.00
ATOM	1510	H	TRP	X	98	34.433	41.713	25.604	0.00	0.00
ATOM	1511	CA	TRP	X	98	35.005	40.922	23.657	0.00	0.00
ATOM	1512	HA	TRP	X	98	35.329	41.303	22.689	0.00	0.00
ATOM	1513	CB	TRP	X	98	36.268	40.202	24.218	0.00	0.00
ATOM	1514	HB2	TRP	X	98	36.036	39.923	25.245	0.00	0.00
ATOM	1515	HB3	TRP	X	98	36.356	39.310	23.598	0.00	0.00
ATOM	1516	CG	TRP	X	98	37.577	40.890	24.266	0.00	0.00
ATOM	1517	CD1	TRP	X	98	38.634	40.736	23.383	0.00	0.00
ATOM	1518	HD1	TRP	X	98	38.568	40.084	22.524	0.00	0.00
ATOM	1519	NE1	TRP	X	98	39.688	41.532	23.809	0.00	0.00
ATOM	1520	HE1	TRP	X	98	40.610	41.508	23.397	0.00	0.00
ATOM	1521	CE2	TRP	X	98	39.391	42.117	24.982	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	40.138	42.987	25.763	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	41.109	43.351	25.462	0.00	0.00
ATOM	1524	CH2	TRP	X	98	39.627	43.485	26.960	0.00	0.00
ATOM	1525	HH2	TRP	X	98	40.202	44.197	27.533	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	38.360	43.093	27.419	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	38.006	43.538	28.337	0.00	0.00
ATOM	1528	CE3	TRP	X	98	37.559	42.277	26.585	0.00	0.00
ATOM	1529	HE3	TRP	X	98	36.555	41.947	26.809	0.00	0.00
ATOM	1530	CD2	TRP	X	98	38.039	41.772	25.342	0.00	0.00
ATOM	1531	C	TRP	X	98	33.805	39.944	23.423	0.00	0.00
ATOM	1532	O	TRP	X	98	33.228	39.461	24.412	0.00	0.00
ATOM	1533	N	THR	X	99	33.389	39.720	22.201	0.00	0.00
ATOM	1534	H	THR	X	99	33.923	40.022	21.399	0.00	0.00
ATOM	1535	CA	THR	X	99	32.146	39.075	21.836	0.00	0.00
ATOM	1536	HA	THR	X	99	31.915	38.397	22.658	0.00	0.00
ATOM	1537	CB	THR	X	99	31.025	40.078	21.892	0.00	0.00
ATOM	1538	HB	THR	X	99	30.802	40.442	22.895	0.00	0.00
ATOM	1539	CG2	THR	X	99	31.390	41.382	21.227	0.00	0.00
ATOM	1540	HG21	THR	X	99	32.049	41.968	21.867	0.00	0.00
ATOM	1541	HG22	THR	X	99	30.448	41.895	21.035	0.00	0.00
ATOM	1542	HG23	THR	X	99	31.751	41.122	20.232	0.00	0.00
ATOM	1543	OG1	THR	X	99	29.800	39.546	21.427	0.00	0.00
ATOM	1544	HG1	THR	X	99	29.055	40.044	21.771	0.00	0.00
ATOM	1545	C	THR	X	99	32.248	38.325	20.397	0.00	0.00
ATOM	1546	O	THR	X	99	32.929	38.786	19.486	0.00	0.00
ATOM	1547	N	PRO	X	100	31.572	37.124	20.262	0.00	0.00
ATOM	1548	CD	PRO	X	100	30.752	36.497	21.374	0.00	0.00
ATOM	1549	HD2	PRO	X	100	29.881	37.063	21.705	0.00	0.00
ATOM	1550	HD3	PRO	X	100	31.389	36.191	22.204	0.00	0.00
ATOM	1551	CG	PRO	X	100	30.069	35.337	20.785	0.00	0.00
ATOM	1552	HG2	PRO	X	100	29.122	35.502	20.271	0.00	0.00
ATOM	1553	HB3	PRO	X	100	30.013	34.692	21.662	0.00	0.00
ATOM	1554	CB	PRO	X	100	31.064	34.815	19.727	0.00	0.00
ATOM	1555	HB2	PRO	X	100	30.482	34.343	18.935	0.00	0.00
ATOM	1556	HB3	PRO	X	100	31.848	34.249	20.229	0.00	0.00
ATOM	1557	CA	PRO	X	100	31.680	36.149	19.209	0.00	0.00
ATOM	1558	HA	PRO	X	100	32.726	35.925	19.000	0.00	0.00
ATOM	1559	C	PRO	X	100	31.056	36.702	17.933	0.00	0.00

ATOM	1560	O	PRO	X	100	29.959	37.271	17.986	0.00	0.00
ATOM	1561	N	TYR	X	101	31.720	36.537	16.780	0.00	0.00
ATOM	1562	H	TYR	X	101	32.665	36.188	16.848	0.00	0.00
ATOM	1563	CA	TYR	X	101	31.368	37.185	15.445	0.00	0.00
ATOM	1564	HA	TYR	X	101	30.527	37.860	15.603	0.00	0.00
ATOM	1565	CB	TYR	X	101	32.503	38.026	14.964	0.00	0.00
ATOM	1566	HB2	TYR	X	101	33.029	38.480	15.804	0.00	0.00
ATOM	1567	HB3	TYR	X	101	33.231	37.367	14.490	0.00	0.00
ATOM	1568	CG	TYR	X	101	32.165	39.216	14.144	0.00	0.00
ATOM	1569	CD1	TYR	X	101	32.679	39.287	12.846	0.00	0.00
ATOM	1570	HD1	TYR	X	101	33.393	38.539	12.534	0.00	0.00
ATOM	1571	CE1	TYR	X	101	32.259	40.260	11.876	0.00	0.00
ATOM	1572	HE1	TYR	X	101	32.675	40.341	10.883	0.00	0.00
ATOM	1573	CZ	TYR	X	101	31.360	41.271	12.391	0.00	0.00
ATOM	1574	OH	TYR	X	101	31.164	42.471	11.820	0.00	0.00
ATOM	1575	HH	TYR	X	101	31.405	42.477	10.891	0.00	0.00
ATOM	1576	CE2	TYR	X	101	30.895	41.243	13.742	0.00	0.00
ATOM	1577	HE2	TYR	X	101	30.270	42.007	14.180	0.00	0.00
ATOM	1578	CD2	TYR	X	101	31.282	40.177	14.561	0.00	0.00
ATOM	1579	HD2	TYR	X	101	30.851	40.181	15.552	0.00	0.00
ATOM	1580	C	TYR	X	101	30.981	36.233	14.269	0.00	0.00
ATOM	1581	O	TYR	X	101	31.605	35.121	14.280	0.00	0.00
ATOM	1582	N	PRO	X	102	30.027	36.560	13.310	0.00	0.00
ATOM	1583	CD	PRO	X	102	29.809	35.797	12.059	0.00	0.00
ATOM	1584	HD2	PRO	X	102	29.325	34.842	12.263	0.00	0.00
ATOM	1585	HD3	PRO	X	102	30.734	35.696	11.491	0.00	0.00
ATOM	1586	CG	PRO	X	102	28.929	36.747	11.267	0.00	0.00
ATOM	1587	HG2	PRO	X	102	28.402	36.299	10.425	0.00	0.00
ATOM	1588	HG3	PRO	X	102	29.497	37.525	10.757	0.00	0.00
ATOM	1589	CB	PRO	X	102	27.999	37.420	12.283	0.00	0.00
ATOM	1590	HB2	PRO	X	102	27.158	36.758	12.494	0.00	0.00
ATOM	1591	HB3	PRO	X	102	27.507	38.342	11.976	0.00	0.00
ATOM	1592	CA	PRO	X	102	28.921	37.580	13.506	0.00	0.00
ATOM	1593	HA	PRO	X	102	29.424	38.545	13.442	0.00	0.00
ATOM	1594	C	PRO	X	102	28.153	37.242	14.795	0.00	0.00
ATOM	1595	O	PRO	X	102	28.497	36.339	15.582	0.00	0.00
ATOM	1596	N	ARG	X	103	27.201	38.126	15.256	0.00	0.00
ATOM	1597	H	ARG	X	103	26.889	38.774	14.546	0.00	0.00
ATOM	1598	CA	ARG	X	103	26.516	38.138	16.593	0.00	0.00
ATOM	1599	HA	ARG	X	103	27.371	38.373	17.227	0.00	0.00
ATOM	1600	CB	ARG	X	103	25.452	39.285	16.667	0.00	0.00
ATOM	1601	HB2	ARG	X	103	24.664	39.047	15.953	0.00	0.00
ATOM	1602	HB3	ARG	X	103	24.920	39.354	17.616	0.00	0.00
ATOM	1603	CG	ARG	X	103	26.061	40.712	16.473	0.00	0.00
ATOM	1604	HG2	ARG	X	103	26.485	40.889	17.462	0.00	0.00
ATOM	1605	HG3	ARG	X	103	26.942	40.727	15.831	0.00	0.00
ATOM	1606	CD	ARG	X	103	25.034	41.774	16.149	0.00	0.00
ATOM	1607	HD2	ARG	X	103	25.592	42.708	16.073	0.00	0.00
ATOM	1608	HD3	ARG	X	103	24.621	41.462	15.190	0.00	0.00
ATOM	1609	NE	ARG	X	103	24.047	41.993	17.144	0.00	0.00
ATOM	1610	HE	ARG	X	103	23.308	41.320	16.999	0.00	0.00
ATOM	1611	CZ	ARG	X	103	24.129	42.792	18.158	0.00	0.00
ATOM	1612	NH1	ARG	X	103	25.153	43.572	18.412	0.00	0.00
ATOM	1613	HH11	ARG	X	103	25.915	43.524	17.752	0.00	0.00
ATOM	1614	HH12	ARG	X	103	25.097	44.173	19.222	0.00	0.00
ATOM	1615	NH2	ARG	X	103	23.041	42.963	18.879	0.00	0.00
ATOM	1616	HH21	ARG	X	103	22.190	42.462	18.668	0.00	0.00
ATOM	1617	HH22	ARG	X	103	23.079	43.493	19.737	0.00	0.00
ATOM	1618	C	ARG	X	103	25.891	36.724	17.034	0.00	0.00
ATOM	1619	O	ARG	X	103	25.306	36.036	16.136	0.00	0.00
ATOM	1620	N	PRO	X	104	26.020	36.323	18.283	0.00	0.00
ATOM	1621	CD	PRO	X	104	26.539	37.176	19.330	0.00	0.00
ATOM	1622	HD2	PRO	X	104	25.993	38.117	19.266	0.00	0.00
ATOM	1623	HD3	PRO	X	104	27.620	37.311	19.349	0.00	0.00
ATOM	1624	CG	PRO	X	104	26.182	36.559	20.685	0.00	0.00
ATOM	1625	HG2	PRO	X	104	25.275	36.868	21.203	0.00	0.00
ATOM	1626	HG3	PRO	X	104	26.989	36.597	21.417	0.00	0.00

ATOM	1627	CB	PRO	X	104	26.000	35.054	20.368	0.00	0.00
ATOM	1628	HB2	PRO	X	104	25.246	34.570	20.988	0.00	0.00
ATOM	1629	HB3	PRO	X	104	26.970	34.556	20.391	0.00	0.00
ATOM	1630	CA	PRO	X	104	25.434	35.089	18.904	0.00	0.00
ATOM	1631	HA	PRO	X	104	25.785	34.168	18.438	0.00	0.00
ATOM	1632	C	PRO	X	104	23.916	35.109	18.737	0.00	0.00
ATOM	1633	O	PRO	X	104	23.293	36.198	18.905	0.00	0.00
ATOM	1634	N	THR	X	105	23.355	33.931	18.399	0.00	0.00
ATOM	1635	H	THR	X	105	23.932	33.138	18.159	0.00	0.00
ATOM	1636	CA	THR	X	105	22.000	33.801	17.950	0.00	0.00
ATOM	1637	HA	THR	X	105	21.690	34.574	17.247	0.00	0.00
ATOM	1638	CB	THR	X	105	21.848	32.577	16.996	0.00	0.00
ATOM	1639	HB	THR	X	105	20.810	32.428	16.701	0.00	0.00
ATOM	1640	CG2	THR	X	105	22.579	32.925	15.710	0.00	0.00
ATOM	1641	HG21	THR	X	105	22.529	31.993	15.147	0.00	0.00
ATOM	1642	HG22	THR	X	105	23.611	33.193	15.936	0.00	0.00
ATOM	1643	HG23	THR	X	105	22.002	33.652	15.139	0.00	0.00
ATOM	1644	OG1	THR	X	105	22.373	31.500	17.712	0.00	0.00
ATOM	1645	HG1	THR	X	105	22.383	30.766	17.093	0.00	0.00
ATOM	1646	C	THR	X	105	20.886	33.718	19.054	0.00	0.00
ATOM	1647	O	THR	X	105	19.723	33.723	18.675	0.00	0.00
ATOM	1648	N	SER	X	106	21.351	33.589	20.313	0.00	0.00
ATOM	1649	H	SER	X	106	22.340	33.711	20.480	0.00	0.00
ATOM	1650	CA	SER	X	106	20.598	33.686	21.537	0.00	0.00
ATOM	1651	HA	SER	X	106	19.643	34.142	21.276	0.00	0.00
ATOM	1652	CB	SER	X	106	20.144	32.340	22.026	0.00	0.00
ATOM	1653	HB2	SER	X	106	20.965	31.627	21.952	0.00	0.00
ATOM	1654	HB3	SER	X	106	19.837	32.277	23.070	0.00	0.00
ATOM	1655	OG	SER	X	106	18.998	31.872	21.270	0.00	0.00
ATOM	1656	HG	SER	X	106	19.217	31.662	20.359	0.00	0.00
ATOM	1657	C	SER	X	106	21.439	34.439	22.657	0.00	0.00
ATOM	1658	O	SER	X	106	22.650	34.354	22.540	0.00	0.00
ATOM	1659	N	PRO	X	107	20.796	35.004	23.632	0.00	0.00
ATOM	1660	CD	PRO	X	107	19.350	34.985	23.854	0.00	0.00
ATOM	1661	HD2	PRO	X	107	19.072	33.961	24.104	0.00	0.00
ATOM	1662	HD3	PRO	X	107	18.855	35.296	22.934	0.00	0.00
ATOM	1663	CG	PRO	X	107	19.183	36.005	24.989	0.00	0.00
ATOM	1664	HG2	PRO	X	107	18.280	35.813	25.570	0.00	0.00
ATOM	1665	HG3	PRO	X	107	18.970	36.952	24.492	0.00	0.00
ATOM	1666	CB	PRO	X	107	20.486	36.107	25.875	0.00	0.00
ATOM	1667	HB2	PRO	X	107	20.416	35.350	26.656	0.00	0.00
ATOM	1668	HB3	PRO	X	107	20.716	37.100	26.262	0.00	0.00
ATOM	1669	CA	PRO	X	107	21.546	35.641	24.790	0.00	0.00
ATOM	1670	HA	PRO	X	107	22.046	36.495	24.333	0.00	0.00
ATOM	1671	C	PRO	X	107	22.524	34.653	25.425	0.00	0.00
ATOM	1672	O	PRO	X	107	22.186	33.517	25.804	0.00	0.00
ATOM	1673	N	THR	X	108	23.752	35.151	25.616	0.00	0.00
ATOM	1674	H	THR	X	108	23.905	36.110	25.337	0.00	0.00
ATOM	1675	CA	THR	X	108	24.936	34.369	26.020	0.00	0.00
ATOM	1676	HA	THR	X	108	24.670	33.352	26.307	0.00	0.00
ATOM	1677	CB	THR	X	108	25.856	34.233	24.809	0.00	0.00
ATOM	1678	HB	THR	X	108	25.273	33.782	24.005	0.00	0.00
ATOM	1679	CG2	THR	X	108	26.383	35.501	24.209	0.00	0.00
ATOM	1680	HG21	THR	X	108	26.965	35.260	23.320	0.00	0.00
ATOM	1681	HG22	THR	X	108	27.134	35.913	24.884	0.00	0.00
ATOM	1682	HG23	THR	X	108	25.595	36.218	23.981	0.00	0.00
ATOM	1683	OG1	THR	X	108	26.920	33.300	25.113	0.00	0.00
ATOM	1684	HG1	THR	X	108	27.642	33.496	24.511	0.00	0.00
ATOM	1685	C	THR	X	108	25.631	35.116	27.216	0.00	0.00
ATOM	1686	O	THR	X	108	25.671	36.383	27.172	0.00	0.00
ATOM	1687	N	PRO	X	109	26.205	34.335	28.138	0.00	0.00
ATOM	1688	CD	PRO	X	109	26.253	32.902	28.235	0.00	0.00
ATOM	1689	HD2	PRO	X	109	27.198	32.643	27.758	0.00	0.00
ATOM	1690	HD3	PRO	X	109	25.370	32.398	27.840	0.00	0.00
ATOM	1691	CG	PRO	X	109	26.324	32.577	29.663	0.00	0.00
ATOM	1692	HG2	PRO	X	109	26.826	31.633	29.877	0.00	0.00
ATOM	1693	HG3	PRO	X	109	25.300	32.674	30.024	0.00	0.00

ATOM	1694	CB	PRO	X	109	27.118	33.666	30.301	0.00	0.00
ATOM	1695	HB2	PRO	X	109	28.198	33.535	30.235	0.00	0.00
ATOM	1696	HB3	PRO	X	109	27.011	33.724	31.384	0.00	0.00
ATOM	1697	CA	PRO	X	109	26.702	34.881	29.483	0.00	0.00
ATOM	1698	HA	PRO	X	109	25.940	35.432	30.034	0.00	0.00
ATOM	1699	C	PRO	X	109	27.821	35.888	29.318	0.00	0.00
ATOM	1700	O	PRO	X	109	28.577	35.668	28.396	0.00	0.00
ATOM	1701	N	VAL	X	110	28.084	36.773	30.268	0.00	0.00
ATOM	1702	H	VAL	X	110	27.399	36.688	31.005	0.00	0.00
ATOM	1703	CA	VAL	X	110	29.076	37.850	30.384	0.00	0.00
ATOM	1704	HA	VAL	X	110	29.560	37.943	29.412	0.00	0.00
ATOM	1705	CB	VAL	X	110	28.294	39.174	30.538	0.00	0.00
ATOM	1706	HB	VAL	X	110	27.690	39.201	31.445	0.00	0.00
ATOM	1707	CG1	VAL	X	110	29.254	40.372	30.637	0.00	0.00
ATOM	1708	HG11	VAL	X	110	28.828	41.199	31.206	0.00	0.00
ATOM	1709	HG12	VAL	X	110	30.202	40.174	31.137	0.00	0.00
ATOM	1710	HG13	VAL	X	110	29.325	40.735	29.612	0.00	0.00
ATOM	1711	CG2	VAL	X	110	27.370	39.388	29.360	0.00	0.00
ATOM	1712	HG21	VAL	X	110	27.124	40.445	29.255	0.00	0.00
ATOM	1713	HG22	VAL	X	110	26.489	38.754	29.460	0.00	0.00
ATOM	1714	HG23	VAL	X	110	27.841	38.995	28.459	0.00	0.00
ATOM	1715	C	VAL	X	110	30.066	37.595	31.516	0.00	0.00
ATOM	1716	O	VAL	X	110	29.739	37.475	32.690	0.00	0.00
ATOM	1717	N	LEU	X	111	31.411	37.542	31.303	0.00	0.00
ATOM	1718	H	LEU	X	111	31.691	37.785	30.364	0.00	0.00
ATOM	1719	CA	LEU	X	111	32.512	37.596	32.298	0.00	0.00
ATOM	1720	HA	LEU	X	111	32.258	37.251	33.300	0.00	0.00
ATOM	1721	CB	LEU	X	111	33.722	36.819	31.872	0.00	0.00
ATOM	1722	HB2	LEU	X	111	33.967	37.261	30.906	0.00	0.00
ATOM	1723	HB3	LEU	X	111	34.585	36.904	32.533	0.00	0.00
ATOM	1724	CG	LEU	X	111	33.515	35.367	31.628	0.00	0.00
ATOM	1725	HG	LEU	X	111	32.593	35.193	31.074	0.00	0.00
ATOM	1726	CD1	LEU	X	111	34.699	34.887	30.835	0.00	0.00
ATOM	1727	HD11	LEU	X	111	34.894	35.505	29.958	0.00	0.00
ATOM	1728	HD12	LEU	X	111	34.656	33.864	30.460	0.00	0.00
ATOM	1729	HD13	LEU	X	111	35.583	34.794	31.466	0.00	0.00
ATOM	1730	CD2	LEU	X	111	33.389	34.596	32.942	0.00	0.00
ATOM	1731	HD21	LEU	X	111	33.261	33.520	32.830	0.00	0.00
ATOM	1732	HD22	LEU	X	111	34.239	34.774	33.601	0.00	0.00
ATOM	1733	HD23	LEU	X	111	32.512	34.962	33.477	0.00	0.00
ATOM	1734	C	LEU	X	111	32.922	39.051	32.515	0.00	0.00
ATOM	1735	O	LEU	X	111	33.118	39.765	31.533	0.00	0.00
ATOM	1736	N	VAL	X	112	33.145	39.470	33.752	0.00	0.00
ATOM	1737	H	VAL	X	112	32.976	38.774	34.465	0.00	0.00
ATOM	1738	CA	VAL	X	112	33.721	40.823	34.054	0.00	0.00
ATOM	1739	HA	VAL	X	112	33.869	41.328	33.099	0.00	0.00
ATOM	1740	CB	VAL	X	112	32.759	41.711	34.864	0.00	0.00
ATOM	1741	HB	VAL	X	112	32.603	41.213	35.821	0.00	0.00
ATOM	1742	CG1	VAL	X	112	33.330	43.173	35.013	0.00	0.00
ATOM	1743	HG11	VAL	X	112	34.378	43.130	35.310	0.00	0.00
ATOM	1744	HG12	VAL	X	112	33.295	43.611	34.015	0.00	0.00
ATOM	1745	HG13	VAL	X	112	32.710	43.784	35.669	0.00	0.00
ATOM	1746	CG2	VAL	X	112	31.365	41.852	34.313	0.00	0.00
ATOM	1747	HG21	VAL	X	112	30.826	40.907	34.371	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.284	42.149	33.268	0.00	0.00
ATOM	1749	HG23	VAL	X	112	30.848	42.662	34.828	0.00	0.00
ATOM	1750	C	VAL	X	112	35.103	40.672	34.760	0.00	0.00
ATOM	1751	O	VAL	X	112	35.079	40.239	35.889	0.00	0.00
ATOM	1752	N	TRP	X	113	36.213	41.019	34.094	0.00	0.00
ATOM	1753	H	TRP	X	113	36.175	41.345	33.138	0.00	0.00
ATOM	1754	CA	TRP	X	113	37.588	41.001	34.617	0.00	0.00
ATOM	1755	HA	TRP	X	113	37.748	40.095	35.200	0.00	0.00
ATOM	1756	CB	TRP	X	113	38.507	40.848	33.439	0.00	0.00
ATOM	1757	HB2	TRP	X	113	38.180	40.039	32.786	0.00	0.00
ATOM	1758	HB3	TRP	X	113	38.392	41.741	32.826	0.00	0.00
ATOM	1759	CG	TRP	X	113	39.948	40.678	33.868	0.00	0.00
ATOM	1760	CD1	TRP	X	113	40.742	41.758	33.938	0.00	0.00

ATOM	1761	HD1	TRP	X	113	40.530	42.735	33.529	0.00	0.00
ATOM	1762	NE1	TRP	X	113	41.918	41.418	34.589	0.00	0.00
ATOM	1763	HE1	TRP	X	113	42.723	42.010	34.732	0.00	0.00
ATOM	1764	CE2	TRP	X	113	41.906	40.142	35.061	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	42.762	39.270	35.753	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	43.797	39.532	35.914	0.00	0.00
ATOM	1767	CH2	TRP	X	113	42.413	37.898	36.008	0.00	0.00
ATOM	1768	HH2	TRP	X	113	43.037	37.173	36.508	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	41.117	37.478	35.679	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	40.937	36.439	35.909	0.00	0.00
ATOM	1771	CE3	TRP	X	113	40.227	38.357	35.068	0.00	0.00
ATOM	1772	HE3	TRP	X	113	39.237	37.995	34.833	0.00	0.00
ATOM	1773	CD2	TRP	X	113	40.624	39.621	34.688	0.00	0.00
ATOM	1774	C	TRP	X	113	38.017	42.202	35.433	0.00	0.00
ATOM	1775	O	TRP	X	113	37.855	43.394	35.122	0.00	0.00
ATOM	1776	N	ILE	X	114	38.554	41.875	36.652	0.00	0.00
ATOM	1777	H	ILE	X	114	38.727	40.896	36.831	0.00	0.00
ATOM	1778	CA	ILE	X	114	39.119	42.768	37.652	0.00	0.00
ATOM	1779	HA	ILE	X	114	39.142	43.738	37.157	0.00	0.00
ATOM	1780	CB	ILE	X	114	38.086	42.803	38.779	0.00	0.00
ATOM	1781	HB	ILE	X	114	38.042	41.844	39.295	0.00	0.00
ATOM	1782	CG2	ILE	X	114	38.592	43.932	39.755	0.00	0.00
ATOM	1783	HG21	ILE	X	114	37.946	43.797	40.623	0.00	0.00
ATOM	1784	HG22	ILE	X	114	38.442	44.895	39.266	0.00	0.00
ATOM	1785	HG23	ILE	X	114	39.657	43.822	39.955	0.00	0.00
ATOM	1786	CG1	ILE	X	114	36.684	43.283	38.214	0.00	0.00
ATOM	1787	HG12	ILE	X	114	36.840	44.283	37.809	0.00	0.00
ATOM	1788	HG13	ILE	X	114	36.430	42.543	37.456	0.00	0.00
ATOM	1789	CD1	ILE	X	114	35.493	43.385	39.202	0.00	0.00
ATOM	1790	HD11	ILE	X	114	35.632	44.199	39.914	0.00	0.00
ATOM	1791	HD12	ILE	X	114	35.379	42.470	39.785	0.00	0.00
ATOM	1792	HD13	ILE	X	114	34.607	43.555	38.590	0.00	0.00
ATOM	1793	C	ILE	X	114	40.558	42.455	38.041	0.00	0.00
ATOM	1794	O	ILE	X	114	40.818	41.333	38.529	0.00	0.00
ATOM	1795	N	TYR	X	115	41.542	43.394	37.843	0.00	0.00
ATOM	1796	H	TYR	X	115	41.164	44.286	37.559	0.00	0.00
ATOM	1797	CA	TYR	X	115	43.008	43.084	37.814	0.00	0.00
ATOM	1798	HA	TYR	X	115	43.096	42.024	37.575	0.00	0.00
ATOM	1799	CB	TYR	X	115	43.685	43.868	36.663	0.00	0.00
ATOM	1800	HB2	TYR	X	115	44.731	43.590	36.793	0.00	0.00
ATOM	1801	HB3	TYR	X	115	43.389	43.575	35.656	0.00	0.00
ATOM	1802	CG	TYR	X	115	43.460	45.359	36.639	0.00	0.00
ATOM	1803	CD1	TYR	X	115	44.132	46.173	37.538	0.00	0.00
ATOM	1804	HD1	TYR	X	115	44.738	45.698	38.296	0.00	0.00
ATOM	1805	CE1	TYR	X	115	43.861	47.577	37.497	0.00	0.00
ATOM	1806	HE1	TYR	X	115	44.275	48.089	38.354	0.00	0.00
ATOM	1807	CZ	TYR	X	115	43.075	48.122	36.556	0.00	0.00
ATOM	1808	OH	TYR	X	115	42.985	49.497	36.466	0.00	0.00
ATOM	1809	HH	TYR	X	115	43.430	49.933	37.196	0.00	0.00
ATOM	1810	CE2	TYR	X	115	42.465	47.354	35.601	0.00	0.00
ATOM	1811	HE2	TYR	X	115	41.830	47.936	34.950	0.00	0.00
ATOM	1812	CD2	TYR	X	115	42.621	45.933	35.618	0.00	0.00
ATOM	1813	HD2	TYR	X	115	42.064	45.287	34.955	0.00	0.00
ATOM	1814	C	TYR	X	115	43.852	43.182	39.167	0.00	0.00
ATOM	1815	O	TYR	X	115	43.511	43.895	40.100	0.00	0.00
ATOM	1816	N	GLY	X	116	44.987	42.523	39.145	0.00	0.00
ATOM	1817	H	GLY	X	116	45.282	41.969	38.354	0.00	0.00
ATOM	1818	CA	GLY	X	116	45.937	42.527	40.270	0.00	0.00
ATOM	1819	HA2	GLY	X	116	45.512	42.618	41.270	0.00	0.00
ATOM	1820	HA3	GLY	X	116	46.581	41.648	40.276	0.00	0.00
ATOM	1821	C	GLY	X	116	46.880	43.702	40.125	0.00	0.00
ATOM	1822	O	GLY	X	116	46.749	44.538	39.239	0.00	0.00
ATOM	1823	N	GLY	X	117	47.779	43.712	41.035	0.00	0.00
ATOM	1824	H	GLY	X	117	47.594	43.102	41.818	0.00	0.00
ATOM	1825	CA	GLY	X	117	48.883	44.675	41.148	0.00	0.00
ATOM	1826	HA2	GLY	X	117	49.784	44.185	40.781	0.00	0.00
ATOM	1827	HA3	GLY	X	117	48.778	45.502	40.446	0.00	0.00

ATOM	1828	C	GLY	X	117	48.985	45.273	42.536	0.00	0.00
ATOM	1829	O	GLY	X	117	49.560	46.417	42.580	0.00	0.00
ATOM	1830	N	GLY	X	118	48.428	44.695	43.605	0.00	0.00
ATOM	1831	H	GLY	X	118	48.111	43.757	43.406	0.00	0.00
ATOM	1832	CA	GLY	X	118	48.698	45.225	44.925	0.00	0.00
ATOM	1833	HA2	GLY	X	118	48.469	44.458	45.665	0.00	0.00
ATOM	1834	HA3	GLY	X	118	49.758	45.478	44.926	0.00	0.00
ATOM	1835	C	GLY	X	118	47.950	46.482	45.255	0.00	0.00
ATOM	1836	O	GLY	X	118	48.390	47.303	46.096	0.00	0.00
ATOM	1837	N	PHE	X	119	46.918	46.781	44.465	0.00	0.00
ATOM	1838	H	PHE	X	119	46.745	46.101	43.739	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.169	48.019	44.362	0.00	0.00
ATOM	1840	HA	PHE	X	119	45.418	48.069	43.574	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.470	48.226	45.718	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.204	48.278	46.522	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.030	49.222	45.773	0.00	0.00
ATOM	1844	CG	PHE	X	119	44.382	47.260	45.978	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.118	47.370	45.389	0.00	0.00
ATOM	1846	HD1	PHE	X	119	42.882	48.204	44.745	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.077	46.469	45.765	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.110	46.642	45.316	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.348	45.406	46.655	0.00	0.00
ATOM	1850	HZ	PHE	X	119	41.557	44.708	46.887	0.00	0.00
ATOM	1851	CE2	PHE	X	119	43.626	45.222	47.136	0.00	0.00
ATOM	1852	HE2	PHE	X	119	43.886	44.414	47.805	0.00	0.00
ATOM	1853	CD2	PHE	X	119	44.609	46.183	46.858	0.00	0.00
ATOM	1854	HD2	PHE	X	119	45.628	46.066	47.195	0.00	0.00
ATOM	1855	C	PHE	X	119	47.049	49.274	44.103	0.00	0.00
ATOM	1856	O	PHE	X	119	46.549	50.385	43.898	0.00	0.00
ATOM	1857	N	TYR	X	120	48.323	49.179	43.819	0.00	0.00
ATOM	1858	H	TYR	X	120	48.802	48.290	43.810	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.143	50.402	43.476	0.00	0.00
ATOM	1860	HA	TYR	X	120	48.553	51.315	43.559	0.00	0.00
ATOM	1861	CB	TYR	X	120	50.308	50.538	44.338	0.00	0.00
ATOM	1862	HB2	TYR	X	120	50.776	51.508	44.169	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.083	50.378	45.393	0.00	0.00
ATOM	1864	CG	TYR	X	120	51.461	49.556	44.085	0.00	0.00
ATOM	1865	CD1	TYR	X	120	52.711	50.093	43.571	0.00	0.00
ATOM	1866	HD1	TYR	X	120	52.836	51.165	43.530	0.00	0.00
ATOM	1867	CE1	TYR	X	120	53.822	49.257	43.446	0.00	0.00
ATOM	1868	HE1	TYR	X	120	54.756	49.678	43.103	0.00	0.00
ATOM	1869	CZ	TYR	X	120	53.723	47.867	43.584	0.00	0.00
ATOM	1870	OH	TYR	X	120	54.766	46.985	43.295	0.00	0.00
ATOM	1871	HH	TYR	X	120	54.498	46.063	43.310	0.00	0.00
ATOM	1872	CE2	TYR	X	120	52.538	47.346	44.044	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.526	46.287	44.254	0.00	0.00
ATOM	1874	CD2	TYR	X	120	51.418	48.171	44.352	0.00	0.00
ATOM	1875	HD2	TYR	X	120	50.526	47.711	44.752	0.00	0.00
ATOM	1876	C	TYR	X	120	49.543	50.392	41.959	0.00	0.00
ATOM	1877	O	TYR	X	120	50.321	51.334	41.576	0.00	0.00
ATOM	1878	N	SER	X	121	49.126	49.411	41.189	0.00	0.00
ATOM	1879	H	SER	X	121	48.467	48.716	41.509	0.00	0.00
ATOM	1880	CA	SER	X	121	49.500	49.243	39.759	0.00	0.00
ATOM	1881	HA	SER	X	121	49.490	50.172	39.190	0.00	0.00
ATOM	1882	CB	SER	X	121	51.001	48.718	39.839	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.374	48.582	38.824	0.00	0.00
ATOM	1884	HB3	SER	X	121	51.567	49.457	40.406	0.00	0.00
ATOM	1885	OG	SER	X	121	51.051	47.513	40.506	0.00	0.00
ATOM	1886	HG	SER	X	121	50.384	47.472	41.196	0.00	0.00
ATOM	1887	C	SER	X	121	48.381	48.427	39.070	0.00	0.00
ATOM	1888	O	SER	X	121	47.451	48.168	39.765	0.00	0.00
ATOM	1889	N	GLY	X	122	48.576	48.072	37.761	0.00	0.00
ATOM	1890	H	GLY	X	122	49.209	48.628	37.204	0.00	0.00
ATOM	1891	CA	GLY	X	122	47.563	47.297	37.019	0.00	0.00
ATOM	1892	HA2	GLY	X	122	48.029	46.462	36.494	0.00	0.00
ATOM	1893	HA3	GLY	X	122	46.844	46.950	37.761	0.00	0.00
ATOM	1894	C	GLY	X	122	46.735	48.046	35.916	0.00	0.00

ATOM	1895	O	GLY	X	122	46.729	49.245	35.839	0.00	0.00
ATOM	1896	N	ALA	X	123	46.180	47.321	34.918	0.00	0.00
ATOM	1897	H	ALA	X	123	46.283	46.317	34.886	0.00	0.00
ATOM	1898	CA	ALA	X	123	45.544	47.937	33.757	0.00	0.00
ATOM	1899	HA	ALA	X	123	44.862	48.732	34.059	0.00	0.00
ATOM	1900	CB	ALA	X	123	46.621	48.537	32.820	0.00	0.00
ATOM	1901	HB1	ALA	X	123	46.242	48.989	31.903	0.00	0.00
ATOM	1902	HB2	ALA	X	123	47.169	47.656	32.486	0.00	0.00
ATOM	1903	HB3	ALA	X	123	47.341	49.069	33.442	0.00	0.00
ATOM	1904	C	ALA	X	123	44.749	46.970	32.944	0.00	0.00
ATOM	1905	O	ALA	X	123	45.257	45.856	32.665	0.00	0.00
ATOM	1906	N	SER	X	124	43.516	47.270	32.630	0.00	0.00
ATOM	1907	H	SER	X	124	43.242	48.213	32.867	0.00	0.00
ATOM	1908	CA	SER	X	124	42.699	46.418	31.732	0.00	0.00
ATOM	1909	HA	SER	X	124	42.524	45.488	32.273	0.00	0.00
ATOM	1910	CB	SER	X	124	41.354	46.999	31.587	0.00	0.00
ATOM	1911	HB2	SER	X	124	40.866	46.418	30.804	0.00	0.00
ATOM	1912	HB3	SER	X	124	40.710	46.975	32.467	0.00	0.00
ATOM	1913	OG	SER	X	124	41.307	48.349	31.232	0.00	0.00
ATOM	1914	HG	SER	X	124	41.894	48.876	31.780	0.00	0.00
ATOM	1915	C	SER	X	124	43.238	46.117	30.325	0.00	0.00
ATOM	1916	O	SER	X	124	42.935	45.051	29.830	0.00	0.00
ATOM	1917	N	SER	X	125	44.189	46.906	29.849	0.00	0.00
ATOM	1918	H	SER	X	125	44.516	47.671	30.421	0.00	0.00
ATOM	1919	CA	SER	X	125	44.736	46.842	28.459	0.00	0.00
ATOM	1920	HA	SER	X	125	43.932	46.761	27.727	0.00	0.00
ATOM	1921	CB	SER	X	125	45.454	48.202	28.232	0.00	0.00
ATOM	1922	HB2	SER	X	125	45.926	48.173	27.250	0.00	0.00
ATOM	1923	HB3	SER	X	125	44.735	49.022	28.228	0.00	0.00
ATOM	1924	OG	SER	X	125	46.395	48.362	29.322	0.00	0.00
ATOM	1925	HG	SER	X	125	47.275	48.088	29.053	0.00	0.00
ATOM	1926	C	SER	X	125	45.844	45.801	28.194	0.00	0.00
ATOM	1927	O	SER	X	125	46.399	45.779	27.131	0.00	0.00
ATOM	1928	N	LEU	X	126	46.233	45.058	29.210	0.00	0.00
ATOM	1929	H	LEU	X	126	45.534	44.925	29.926	0.00	0.00
ATOM	1930	CA	LEU	X	126	47.377	44.181	29.239	0.00	0.00
ATOM	1931	HA	LEU	X	126	48.184	44.695	28.717	0.00	0.00
ATOM	1932	CB	LEU	X	126	47.835	43.892	30.711	0.00	0.00
ATOM	1933	HB2	LEU	X	126	46.965	43.448	31.196	0.00	0.00
ATOM	1934	HB3	LEU	X	126	48.645	43.165	30.665	0.00	0.00
ATOM	1935	CG	LEU	X	126	48.389	45.029	31.581	0.00	0.00
ATOM	1936	HG	LEU	X	126	47.659	45.838	31.607	0.00	0.00
ATOM	1937	CD1	LEU	X	126	48.634	44.442	32.960	0.00	0.00
ATOM	1938	HD11	LEU	X	126	49.018	45.253	33.579	0.00	0.00
ATOM	1939	HD12	LEU	X	126	49.282	43.566	32.943	0.00	0.00
ATOM	1940	HD13	LEU	X	126	47.650	44.165	33.338	0.00	0.00
ATOM	1941	CD2	LEU	X	126	49.712	45.495	31.116	0.00	0.00
ATOM	1942	HD21	LEU	X	126	49.992	46.380	31.687	0.00	0.00
ATOM	1943	HD22	LEU	X	126	50.487	44.745	31.270	0.00	0.00
ATOM	1944	HD23	LEU	X	126	49.872	45.800	30.082	0.00	0.00
ATOM	1945	C	LEU	X	126	46.983	42.936	28.375	0.00	0.00
ATOM	1946	O	LEU	X	126	45.845	42.424	28.514	0.00	0.00
ATOM	1947	N	ASP	X	127	47.909	42.436	27.543	0.00	0.00
ATOM	1948	H	ASP	X	127	48.794	42.918	27.608	0.00	0.00
ATOM	1949	CA	ASP	X	127	47.734	41.281	26.653	0.00	0.00
ATOM	1950	HA	ASP	X	127	46.855	41.629	26.112	0.00	0.00
ATOM	1951	CB	ASP	X	127	48.947	41.237	25.746	0.00	0.00
ATOM	1952	HB2	ASP	X	127	48.699	40.485	24.997	0.00	0.00
ATOM	1953	HB3	ASP	X	127	48.984	42.152	25.154	0.00	0.00
ATOM	1954	CG	ASP	X	127	50.279	40.943	26.324	0.00	0.00
ATOM	1955	OD1	ASP	X	127	50.941	41.859	26.914	0.00	0.00
ATOM	1956	OD2	ASP	X	127	50.630	39.744	26.420	0.00	0.00
ATOM	1957	C	ASP	X	127	47.402	39.917	27.355	0.00	0.00
ATOM	1958	O	ASP	X	127	46.708	39.042	26.714	0.00	0.00
ATOM	1959	N	VAL	X	128	47.789	39.701	28.582	0.00	0.00
ATOM	1960	H	VAL	X	128	48.331	40.388	29.087	0.00	0.00
ATOM	1961	CA	VAL	X	128	47.299	38.572	29.428	0.00	0.00

ATOM	1962	HA	VAL	X	128	47.402	37.738	28.734	0.00	0.00
ATOM	1963	CB	VAL	X	128	48.155	38.361	30.667	0.00	0.00
ATOM	1964	HB	VAL	X	128	49.170	38.464	30.283	0.00	0.00
ATOM	1965	CG1	VAL	X	128	47.866	39.463	31.773	0.00	0.00
ATOM	1966	HG11	VAL	X	128	48.757	39.517	32.399	0.00	0.00
ATOM	1967	HG12	VAL	X	128	47.494	40.433	31.446	0.00	0.00
ATOM	1968	HG13	VAL	X	128	47.086	39.048	32.412	0.00	0.00
ATOM	1969	CG2	VAL	X	128	48.065	37.001	31.333	0.00	0.00
ATOM	1970	HG21	VAL	X	128	47.068	36.625	31.562	0.00	0.00
ATOM	1971	HG22	VAL	X	128	48.757	36.792	32.149	0.00	0.00
ATOM	1972	HG23	VAL	X	128	48.467	36.283	30.618	0.00	0.00
ATOM	1973	C	VAL	X	128	45.837	38.635	29.740	0.00	0.00
ATOM	1974	O	VAL	X	128	45.291	37.550	29.881	0.00	0.00
ATOM	1975	N	TYR	X	129	45.193	39.849	29.766	0.00	0.00
ATOM	1976	H	TYR	X	129	45.744	40.637	29.457	0.00	0.00
ATOM	1977	CA	TYR	X	129	43.851	40.024	30.166	0.00	0.00
ATOM	1978	HA	TYR	X	129	43.382	39.146	30.609	0.00	0.00
ATOM	1979	CB	TYR	X	129	43.652	41.250	31.092	0.00	0.00
ATOM	1980	HB2	TYR	X	129	43.653	42.140	30.464	0.00	0.00
ATOM	1981	HB3	TYR	X	129	42.623	41.150	31.436	0.00	0.00
ATOM	1982	CG	TYR	X	129	44.477	41.379	32.436	0.00	0.00
ATOM	1983	CD1	TYR	X	129	44.857	40.228	33.106	0.00	0.00
ATOM	1984	HD1	TYR	X	129	44.631	39.286	32.628	0.00	0.00
ATOM	1985	CE1	TYR	X	129	45.459	40.321	34.356	0.00	0.00
ATOM	1986	HE1	TYR	X	129	45.710	39.489	34.997	0.00	0.00
ATOM	1987	CZ	TYR	X	129	45.824	41.636	34.849	0.00	0.00
ATOM	1988	OH	TYR	X	129	46.280	41.805	36.128	0.00	0.00
ATOM	1989	HH	TYR	X	129	46.265	40.938	36.541	0.00	0.00
ATOM	1990	CE2	TYR	X	129	45.457	42.780	34.080	0.00	0.00
ATOM	1991	HE2	TYR	X	129	45.672	43.757	34.486	0.00	0.00
ATOM	1992	CD2	TYR	X	129	44.756	42.690	32.888	0.00	0.00
ATOM	1993	HD2	TYR	X	129	44.544	43.550	32.270	0.00	0.00
ATOM	1994	C	TYR	X	129	42.974	40.290	28.880	0.00	0.00
ATOM	1995	O	TYR	X	129	41.788	40.526	28.974	0.00	0.00
ATOM	1996	N	ASP	X	130	43.525	40.224	27.662	0.00	0.00
ATOM	1997	H	ASP	X	130	44.502	39.968	27.634	0.00	0.00
ATOM	1998	CA	ASP	X	130	42.705	40.185	26.418	0.00	0.00
ATOM	1999	HA	ASP	X	130	42.016	41.029	26.439	0.00	0.00
ATOM	2000	CB	ASP	X	130	43.631	40.463	25.208	0.00	0.00
ATOM	2001	HB2	ASP	X	130	44.176	41.395	25.359	0.00	0.00
ATOM	2002	HB3	ASP	X	130	44.414	39.722	25.048	0.00	0.00
ATOM	2003	CG	ASP	X	130	42.714	40.570	24.014	0.00	0.00
ATOM	2004	OD1	ASP	X	130	42.170	39.508	23.570	0.00	0.00
ATOM	2005	OD2	ASP	X	130	42.629	41.703	23.449	0.00	0.00
ATOM	2006	C	ASP	X	130	41.856	38.895	26.332	0.00	0.00
ATOM	2007	O	ASP	X	130	42.360	37.776	26.458	0.00	0.00
ATOM	2008	N	GLY	X	131	40.486	38.992	26.231	0.00	0.00
ATOM	2009	H	GLY	X	131	40.156	39.932	26.063	0.00	0.00
ATOM	2010	CA	GLY	X	131	39.614	37.800	26.320	0.00	0.00
ATOM	2011	HA2	GLY	X	131	39.937	37.064	27.057	0.00	0.00
ATOM	2012	HA3	GLY	X	131	38.657	38.192	26.664	0.00	0.00
ATOM	2013	C	GLY	X	131	39.335	37.002	25.032	0.00	0.00
ATOM	2014	O	GLY	X	131	38.641	35.949	25.096	0.00	0.00
ATOM	2015	N	ARG	X	132	39.856	37.415	23.879	0.00	0.00
ATOM	2016	H	ARG	X	132	40.392	38.270	23.915	0.00	0.00
ATOM	2017	CA	ARG	X	132	39.677	36.763	22.555	0.00	0.00
ATOM	2018	HA	ARG	X	132	38.655	37.032	22.289	0.00	0.00
ATOM	2019	CB	ARG	X	132	40.600	37.317	21.432	0.00	0.00
ATOM	2020	HB2	ARG	X	132	40.405	36.813	20.486	0.00	0.00
ATOM	2021	HB3	ARG	X	132	40.426	38.373	21.227	0.00	0.00
ATOM	2022	CG	ARG	X	132	42.116	37.072	21.656	0.00	0.00
ATOM	2023	HG2	ARG	X	132	42.522	37.296	22.643	0.00	0.00
ATOM	2024	HG3	ARG	X	132	42.310	36.006	21.542	0.00	0.00
ATOM	2025	CD	ARG	X	132	42.924	37.809	20.597	0.00	0.00
ATOM	2026	HD2	ARG	X	132	43.848	37.248	20.458	0.00	0.00
ATOM	2027	HD3	ARG	X	132	42.346	37.835	19.673	0.00	0.00
ATOM	2028	NE	ARG	X	132	43.147	39.161	21.036	0.00	0.00

ATOM	2029	HE	ARG	X	132	43.142	39.362	22.026	0.00	0.00
ATOM	2030	CZ	ARG	X	132	43.552	40.129	20.301	0.00	0.00
ATOM	2031	NH1	ARG	X	132	44.077	40.003	19.141	0.00	0.00
ATOM	2032	HH11	ARG	X	132	43.935	39.143	18.631	0.00	0.00
ATOM	2033	HH12	ARG	X	132	44.331	40.872	18.692	0.00	0.00
ATOM	2034	NH2	ARG	X	132	43.455	41.316	20.784	0.00	0.00
ATOM	2035	HH21	ARG	X	132	43.176	41.480	21.741	0.00	0.00
ATOM	2036	HH22	ARG	X	132	43.812	42.093	20.247	0.00	0.00
ATOM	2037	C	ARG	X	132	39.711	35.251	22.473	0.00	0.00
ATOM	2038	O	ARG	X	132	38.858	34.715	21.838	0.00	0.00
ATOM	2039	N	PHE	X	133	40.697	34.556	23.058	0.00	0.00
ATOM	2040	H	PHE	X	133	41.461	35.113	23.413	0.00	0.00
ATOM	2041	CA	PHE	X	133	40.731	33.151	23.055	0.00	0.00
ATOM	2042	HA	PHE	X	133	40.699	32.745	22.044	0.00	0.00
ATOM	2043	CB	PHE	X	133	42.096	32.612	23.443	0.00	0.00
ATOM	2044	HB2	PHE	X	133	42.193	32.841	24.504	0.00	0.00
ATOM	2045	HB3	PHE	X	133	42.095	31.538	23.259	0.00	0.00
ATOM	2046	CG	PHE	X	133	43.312	33.177	22.713	0.00	0.00
ATOM	2047	CD1	PHE	X	133	44.137	34.195	23.231	0.00	0.00
ATOM	2048	HD1	PHE	X	133	43.881	34.688	24.158	0.00	0.00
ATOM	2049	CE1	PHE	X	133	45.298	34.578	22.539	0.00	0.00
ATOM	2050	HE1	PHE	X	133	46.022	35.173	23.076	0.00	0.00
ATOM	2051	CZ	PHE	X	133	45.519	34.064	21.245	0.00	0.00
ATOM	2052	HZ	PHE	X	133	46.269	34.577	20.662	0.00	0.00
ATOM	2053	CE2	PHE	X	133	44.632	33.108	20.673	0.00	0.00
ATOM	2054	HE2	PHE	X	133	44.841	32.578	19.755	0.00	0.00
ATOM	2055	CD2	PHE	X	133	43.576	32.675	21.452	0.00	0.00
ATOM	2056	HD2	PHE	X	133	42.925	31.873	21.138	0.00	0.00
ATOM	2057	C	PHE	X	133	39.654	32.444	23.879	0.00	0.00
ATOM	2058	O	PHE	X	133	38.953	31.551	23.386	0.00	0.00
ATOM	2059	N	LEU	X	134	39.520	32.953	25.104	0.00	0.00
ATOM	2060	H	LEU	X	134	40.081	33.767	25.310	0.00	0.00
ATOM	2061	CA	LEU	X	134	38.421	32.604	26.037	0.00	0.00
ATOM	2062	HA	LEU	X	134	38.322	31.542	26.262	0.00	0.00
ATOM	2063	CB	LEU	X	134	38.682	33.348	27.435	0.00	0.00
ATOM	2064	HB2	LEU	X	134	39.706	33.063	27.673	0.00	0.00
ATOM	2065	HB3	LEU	X	134	38.723	34.398	27.146	0.00	0.00
ATOM	2066	CG	LEU	X	134	37.688	33.024	28.504	0.00	0.00
ATOM	2067	HG	LEU	X	134	36.742	33.431	28.148	0.00	0.00
ATOM	2068	CD1	LEU	X	134	37.423	31.498	28.777	0.00	0.00
ATOM	2069	HD11	LEU	X	134	36.795	31.378	29.659	0.00	0.00
ATOM	2070	HD12	LEU	X	134	38.407	31.057	28.936	0.00	0.00
ATOM	2071	HD13	LEU	X	134	37.042	30.956	27.911	0.00	0.00
ATOM	2072	CD2	LEU	X	134	38.009	33.724	29.895	0.00	0.00
ATOM	2073	HD21	LEU	X	134	39.029	34.049	30.101	0.00	0.00
ATOM	2074	HD22	LEU	X	134	37.315	34.556	30.020	0.00	0.00
ATOM	2075	HD23	LEU	X	134	37.700	33.103	30.736	0.00	0.00
ATOM	2076	C	LEU	X	134	37.035	32.866	25.420	0.00	0.00
ATOM	2077	O	LEU	X	134	36.087	32.026	25.577	0.00	0.00
ATOM	2078	N	VAL	X	135	36.906	33.986	24.709	0.00	0.00
ATOM	2079	H	VAL	X	135	37.594	34.722	24.781	0.00	0.00
ATOM	2080	CA	VAL	X	135	35.587	34.346	24.085	0.00	0.00
ATOM	2081	HA	VAL	X	135	34.786	34.172	24.804	0.00	0.00
ATOM	2082	CB	VAL	X	135	35.547	35.864	23.772	0.00	0.00
ATOM	2083	HB	VAL	X	135	36.471	36.225	23.320	0.00	0.00
ATOM	2084	CG1	VAL	X	135	34.368	36.321	22.842	0.00	0.00
ATOM	2085	HG11	VAL	X	135	33.378	36.177	23.276	0.00	0.00
ATOM	2086	HG12	VAL	X	135	34.412	37.407	22.769	0.00	0.00
ATOM	2087	HG13	VAL	X	135	34.454	35.951	21.821	0.00	0.00
ATOM	2088	CG2	VAL	X	135	35.430	36.643	25.111	0.00	0.00
ATOM	2089	HG21	VAL	X	135	35.837	36.153	25.995	0.00	0.00
ATOM	2090	HG22	VAL	X	135	34.409	36.996	25.255	0.00	0.00
ATOM	2091	HG23	VAL	X	135	35.974	37.570	24.929	0.00	0.00
ATOM	2092	C	VAL	X	135	35.280	33.470	22.859	0.00	0.00
ATOM	2093	O	VAL	X	135	34.137	32.889	22.711	0.00	0.00
ATOM	2094	N	GLN	X	136	36.221	33.335	21.938	0.00	0.00
ATOM	2095	H	GLN	X	136	37.127	33.765	22.058	0.00	0.00

ATOM	2096	CA	GLN	X	136	36.116	32.474	20.739	0.00	0.00
ATOM	2097	HA	GLN	X	136	35.338	32.841	20.070	0.00	0.00
ATOM	2098	CB	GLN	X	136	37.481	32.406	19.961	0.00	0.00
ATOM	2099	HB2	GLN	X	136	37.813	33.390	19.628	0.00	0.00
ATOM	2100	HB3	GLN	X	136	38.320	32.087	20.579	0.00	0.00
ATOM	2101	CG	GLN	X	136	37.467	31.507	18.700	0.00	0.00
ATOM	2102	HG2	GLN	X	136	36.433	31.395	18.374	0.00	0.00
ATOM	2103	HG3	GLN	X	136	37.957	32.032	17.880	0.00	0.00
ATOM	2104	CD	GLN	X	136	38.119	30.148	18.803	0.00	0.00
ATOM	2105	OE1	GLN	X	136	39.301	29.879	18.560	0.00	0.00
ATOM	2106	NE2	GLN	X	136	37.406	29.150	19.179	0.00	0.00
ATOM	2107	HE21	GLN	X	136	37.841	28.242	19.259	0.00	0.00
ATOM	2108	HE22	GLN	X	136	36.422	29.296	19.355	0.00	0.00
ATOM	2109	C	GLN	X	136	35.792	31.018	21.082	0.00	0.00
ATOM	2110	O	GLN	X	136	34.938	30.372	20.464	0.00	0.00
ATOM	2111	N	ALA	X	137	36.395	30.505	22.170	0.00	0.00
ATOM	2112	H	ALA	X	137	37.241	30.953	22.493	0.00	0.00
ATOM	2113	CA	ALA	X	137	36.133	29.105	22.597	0.00	0.00
ATOM	2114	HA	ALA	X	137	36.014	28.431	21.748	0.00	0.00
ATOM	2115	CB	ALA	X	137	37.243	28.589	23.444	0.00	0.00
ATOM	2116	HB1	ALA	X	137	37.555	29.384	24.122	0.00	0.00
ATOM	2117	HB2	ALA	X	137	38.081	28.343	22.793	0.00	0.00
ATOM	2118	HB3	ALA	X	137	37.146	27.596	23.884	0.00	0.00
ATOM	2119	C	ALA	X	137	34.832	28.821	23.380	0.00	0.00
ATOM	2120	O	ALA	X	137	34.202	27.795	23.247	0.00	0.00
ATOM	2121	N	GLU	X	138	34.368	29.801	24.164	0.00	0.00
ATOM	2122	H	GLU	X	138	34.964	30.589	24.373	0.00	0.00
ATOM	2123	CA	GLU	X	138	33.253	29.518	25.042	0.00	0.00
ATOM	2124	HA	GLU	X	138	32.882	28.498	24.941	0.00	0.00
ATOM	2125	CB	GLU	X	138	33.791	29.650	26.483	0.00	0.00
ATOM	2126	HB2	GLU	X	138	34.030	30.705	26.621	0.00	0.00
ATOM	2127	HB3	GLU	X	138	32.957	29.508	27.171	0.00	0.00
ATOM	2128	CG	GLU	X	138	34.945	28.685	26.781	0.00	0.00
ATOM	2129	HG2	GLU	X	138	35.828	29.040	26.249	0.00	0.00
ATOM	2130	HG3	GLU	X	138	35.092	28.994	27.816	0.00	0.00
ATOM	2131	CD	GLU	X	138	34.577	27.165	26.731	0.00	0.00
ATOM	2132	OE1	GLU	X	138	33.420	26.750	26.656	0.00	0.00
ATOM	2133	OE2	GLU	X	138	35.474	26.354	26.607	0.00	0.00
ATOM	2134	C	GLU	X	138	32.048	30.387	24.787	0.00	0.00
ATOM	2135	O	GLU	X	138	31.085	30.338	25.549	0.00	0.00
ATOM	2136	N	ARG	X	139	32.074	31.274	23.722	0.00	0.00
ATOM	2137	H	ARG	X	139	32.983	31.279	23.282	0.00	0.00
ATOM	2138	CA	ARG	X	139	30.945	32.071	23.246	0.00	0.00
ATOM	2139	HA	ARG	X	139	31.370	32.703	22.466	0.00	0.00
ATOM	2140	CB	ARG	X	139	29.921	31.140	22.650	0.00	0.00
ATOM	2141	HB2	ARG	X	139	29.563	30.351	23.310	0.00	0.00
ATOM	2142	HB3	ARG	X	139	29.056	31.726	22.338	0.00	0.00
ATOM	2143	CG	ARG	X	139	30.450	30.467	21.455	0.00	0.00
ATOM	2144	HG2	ARG	X	139	31.053	31.193	20.909	0.00	0.00
ATOM	2145	HG3	ARG	X	139	31.153	29.669	21.693	0.00	0.00
ATOM	2146	CD	ARG	X	139	29.275	29.793	20.596	0.00	0.00
ATOM	2147	HD2	ARG	X	139	29.583	29.011	19.902	0.00	0.00
ATOM	2148	HD3	ARG	X	139	28.666	29.391	21.406	0.00	0.00
ATOM	2149	NE	ARG	X	139	28.518	30.794	19.911	0.00	0.00
ATOM	2150	HE	ARG	X	139	27.540	30.818	20.161	0.00	0.00
ATOM	2151	CZ	ARG	X	139	28.875	31.478	18.854	0.00	0.00
ATOM	2152	NH1	ARG	X	139	30.090	31.529	18.317	0.00	0.00
ATOM	2153	HH11	ARG	X	139	30.850	31.063	18.792	0.00	0.00
ATOM	2154	HH12	ARG	X	139	30.489	32.169	17.645	0.00	0.00
ATOM	2155	NH2	ARG	X	139	28.000	32.182	18.288	0.00	0.00
ATOM	2156	HH21	ARG	X	139	27.027	32.206	18.558	0.00	0.00
ATOM	2157	HH22	ARG	X	139	28.213	32.612	17.399	0.00	0.00
ATOM	2158	C	ARG	X	139	30.317	33.001	24.292	0.00	0.00
ATOM	2159	O	ARG	X	139	29.429	33.803	23.917	0.00	0.00
ATOM	2160	N	THR	X	140	30.729	32.997	25.562	0.00	0.00
ATOM	2161	H	THR	X	140	31.427	32.292	25.753	0.00	0.00
ATOM	2162	CA	THR	X	140	30.490	33.987	26.601	0.00	0.00

ATOM	2163	HA	THR	X	140	29.415	34.123	26.477	0.00	0.00
ATOM	2164	CB	THR	X	140	30.913	33.643	28.009	0.00	0.00
ATOM	2165	HB	THR	X	140	30.488	34.430	28.630	0.00	0.00
ATOM	2166	CG2	THR	X	140	30.302	32.270	28.385	0.00	0.00
ATOM	2167	HG21	THR	X	140	30.688	31.406	27.843	0.00	0.00
ATOM	2168	HG22	THR	X	140	29.233	32.346	28.187	0.00	0.00
ATOM	2169	HG23	THR	X	140	30.453	32.243	29.464	0.00	0.00
ATOM	2170	OG1	THR	X	140	32.304	33.507	28.146	0.00	0.00
ATOM	2171	HG1	THR	X	140	32.605	34.393	27.934	0.00	0.00
ATOM	2172	C	THR	X	140	31.219	35.235	26.210	0.00	0.00
ATOM	2173	O	THR	X	140	32.373	35.115	25.753	0.00	0.00
ATOM	2174	N	VAL	X	141	30.538	36.352	26.470	0.00	0.00
ATOM	2175	H	VAL	X	141	29.631	36.235	26.898	0.00	0.00
ATOM	2176	CA	VAL	X	141	31.048	37.721	26.320	0.00	0.00
ATOM	2177	HA	VAL	X	141	31.561	37.734	25.359	0.00	0.00
ATOM	2178	CB	VAL	X	141	29.928	38.768	26.274	0.00	0.00
ATOM	2179	HB	VAL	X	141	29.353	38.692	27.197	0.00	0.00
ATOM	2180	CG1	VAL	X	141	30.409	40.167	26.137	0.00	0.00
ATOM	2181	HG11	VAL	X	141	31.074	40.310	25.285	0.00	0.00
ATOM	2182	HG12	VAL	X	141	29.606	40.866	25.905	0.00	0.00
ATOM	2183	HG13	VAL	X	141	30.994	40.400	27.027	0.00	0.00
ATOM	2184	CG2	VAL	X	141	28.958	38.455	25.059	0.00	0.00
ATOM	2185	HG21	VAL	X	141	29.452	38.274	24.105	0.00	0.00
ATOM	2186	HG22	VAL	X	141	28.330	39.317	24.833	0.00	0.00
ATOM	2187	HG23	VAL	X	141	28.297	37.664	25.413	0.00	0.00
ATOM	2188	C	VAL	X	141	32.067	37.981	27.470	0.00	0.00
ATOM	2189	O	VAL	X	141	31.777	37.512	28.588	0.00	0.00
ATOM	2190	N	LEU	X	142	33.168	38.714	27.295	0.00	0.00
ATOM	2191	H	LEU	X	142	33.382	38.987	26.346	0.00	0.00
ATOM	2192	CA	LEU	X	142	34.058	39.074	28.341	0.00	0.00
ATOM	2193	HA	LEU	X	142	33.629	38.757	29.292	0.00	0.00
ATOM	2194	CB	LEU	X	142	35.356	38.320	28.302	0.00	0.00
ATOM	2195	HB2	LEU	X	142	35.066	37.271	28.368	0.00	0.00
ATOM	2196	HB3	LEU	X	142	35.741	38.332	27.282	0.00	0.00
ATOM	2197	CG	LEU	X	142	36.416	38.725	29.444	0.00	0.00
ATOM	2198	HG	LEU	X	142	35.937	39.021	30.377	0.00	0.00
ATOM	2199	CD1	LEU	X	142	37.196	37.416	29.707	0.00	0.00
ATOM	2200	HD11	LEU	X	142	38.144	37.702	30.163	0.00	0.00
ATOM	2201	HD12	LEU	X	142	37.583	36.938	28.807	0.00	0.00
ATOM	2202	HD13	LEU	X	142	36.661	36.790	30.420	0.00	0.00
ATOM	2203	CD2	LEU	X	142	37.388	39.859	29.006	0.00	0.00
ATOM	2204	HD21	LEU	X	142	36.922	40.837	29.123	0.00	0.00
ATOM	2205	HD22	LEU	X	142	38.209	39.922	29.721	0.00	0.00
ATOM	2206	HD23	LEU	X	142	37.593	39.901	27.936	0.00	0.00
ATOM	2207	C	LEU	X	142	34.244	40.583	28.372	0.00	0.00
ATOM	2208	O	LEU	X	142	34.363	41.133	27.288	0.00	0.00
ATOM	2209	N	VAL	X	143	34.152	41.261	29.476	0.00	0.00
ATOM	2210	H	VAL	X	143	34.038	40.771	30.352	0.00	0.00
ATOM	2211	CA	VAL	X	143	34.203	42.683	29.709	0.00	0.00
ATOM	2212	HA	VAL	X	143	34.525	43.122	28.765	0.00	0.00
ATOM	2213	CB	VAL	X	143	32.828	43.160	30.136	0.00	0.00
ATOM	2214	HB	VAL	X	143	32.714	42.524	31.013	0.00	0.00
ATOM	2215	CG1	VAL	X	143	32.768	44.592	30.651	0.00	0.00
ATOM	2216	HG11	VAL	X	143	31.786	44.854	31.044	0.00	0.00
ATOM	2217	HG12	VAL	X	143	33.545	44.757	31.397	0.00	0.00
ATOM	2218	HG13	VAL	X	143	32.876	45.293	29.823	0.00	0.00
ATOM	2219	CG2	VAL	X	143	31.687	42.904	29.154	0.00	0.00
ATOM	2220	HG21	VAL	X	143	30.809	43.310	29.657	0.00	0.00
ATOM	2221	HG22	VAL	X	143	31.649	41.826	28.998	0.00	0.00
ATOM	2222	HG23	VAL	X	143	32.027	43.371	28.229	0.00	0.00
ATOM	2223	C	VAL	X	143	35.332	42.858	30.731	0.00	0.00
ATOM	2224	O	VAL	X	143	35.657	41.962	31.442	0.00	0.00
ATOM	2225	N	SER	X	144	35.914	44.055	30.673	0.00	0.00
ATOM	2226	H	SER	X	144	35.640	44.767	30.011	0.00	0.00
ATOM	2227	CA	SER	X	144	36.784	44.656	31.777	0.00	0.00
ATOM	2228	HA	SER	X	144	36.409	44.393	32.766	0.00	0.00
ATOM	2229	CB	SER	X	144	38.192	44.128	31.639	0.00	0.00

ATOM	2230	HB2	SER	X	144	38.592	44.219	32.649	0.00	0.00
ATOM	2231	HB3	SER	X	144	38.050	43.080	31.376	0.00	0.00
ATOM	2232	OG	SER	X	144	38.952	44.756	30.652	0.00	0.00
ATOM	2233	HG	SER	X	144	39.544	44.097	30.282	0.00	0.00
ATOM	2234	C	SER	X	144	36.757	46.200	31.678	0.00	0.00
ATOM	2235	O	SER	X	144	36.049	46.830	30.835	0.00	0.00
ATOM	2236	N	MET	X	145	37.533	46.869	32.593	0.00	0.00
ATOM	2237	H	MET	X	145	38.100	46.290	33.196	0.00	0.00
ATOM	2238	CA	MET	X	145	37.731	48.303	32.708	0.00	0.00
ATOM	2239	HA	MET	X	145	37.811	48.679	31.688	0.00	0.00
ATOM	2240	CB	MET	X	145	36.411	48.893	33.372	0.00	0.00
ATOM	2241	HB2	MET	X	145	36.415	49.959	33.600	0.00	0.00
ATOM	2242	HB3	MET	X	145	35.598	48.895	32.646	0.00	0.00
ATOM	2243	CG	MET	X	145	35.992	48.233	34.652	0.00	0.00
ATOM	2244	HG2	MET	X	145	36.891	47.894	35.167	0.00	0.00
ATOM	2245	HG3	MET	X	145	35.745	49.069	35.307	0.00	0.00
ATOM	2246	SD	MET	X	145	34.783	46.855	34.734	0.00	0.00
ATOM	2247	CE	MET	X	145	34.615	46.592	36.467	0.00	0.00
ATOM	2248	HE1	MET	X	145	35.600	46.665	36.927	0.00	0.00
ATOM	2249	HE2	MET	X	145	33.888	47.328	36.809	0.00	0.00
ATOM	2250	HE3	MET	X	145	34.189	45.597	36.593	0.00	0.00
ATOM	2251	C	MET	X	145	38.943	48.762	33.646	0.00	0.00
ATOM	2252	O	MET	X	145	39.405	47.932	34.504	0.00	0.00
ATOM	2253	N	ASN	X	146	39.376	50.056	33.488	0.00	0.00
ATOM	2254	H	ASN	X	146	38.972	50.684	32.809	0.00	0.00
ATOM	2255	CA	ASN	X	146	40.409	50.693	34.313	0.00	0.00
ATOM	2256	HA	ASN	X	146	40.967	49.834	34.685	0.00	0.00
ATOM	2257	CB	ASN	X	146	41.218	51.585	33.464	0.00	0.00
ATOM	2258	HB2	ASN	X	146	40.535	52.170	32.847	0.00	0.00
ATOM	2259	HB3	ASN	X	146	41.791	52.306	34.047	0.00	0.00
ATOM	2260	CG	ASN	X	146	42.230	50.980	32.442	0.00	0.00
ATOM	2261	OD1	ASN	X	146	42.814	49.929	32.590	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.561	51.643	31.382	0.00	0.00
ATOM	2263	HD21	ASN	X	146	43.419	51.337	30.944	0.00	0.00
ATOM	2264	HD22	ASN	X	146	42.323	52.622	31.308	0.00	0.00
ATOM	2265	C	ASN	X	146	39.746	51.366	35.477	0.00	0.00
ATOM	2266	O	ASN	X	146	38.674	51.926	35.374	0.00	0.00
ATOM	2267	N	TYR	X	147	40.561	51.554	36.534	0.00	0.00
ATOM	2268	H	TYR	X	147	41.410	51.007	36.546	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.113	52.133	37.793	0.00	0.00
ATOM	2270	HA	TYR	X	147	39.471	52.986	37.574	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.268	51.132	38.596	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.076	51.560	39.579	0.00	0.00
ATOM	2273	HB3	TYR	X	147	38.300	51.101	38.096	0.00	0.00
ATOM	2274	CG	TYR	X	147	39.867	49.700	38.854	0.00	0.00
ATOM	2275	CD1	TYR	X	147	39.502	48.670	37.972	0.00	0.00
ATOM	2276	HD1	TYR	X	147	38.920	48.844	37.080	0.00	0.00
ATOM	2277	CE1	TYR	X	147	40.049	47.425	38.193	0.00	0.00
ATOM	2278	HE1	TYR	X	147	39.752	46.698	37.452	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.001	47.191	39.142	0.00	0.00
ATOM	2280	OH	TYR	X	147	41.506	45.934	39.214	0.00	0.00
ATOM	2281	HH	TYR	X	147	42.178	45.849	39.894	0.00	0.00
ATOM	2282	CE2	TYR	X	147	41.407	48.272	39.983	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.175	48.044	40.707	0.00	0.00
ATOM	2284	CD2	TYR	X	147	40.827	49.549	39.853	0.00	0.00
ATOM	2285	HD2	TYR	X	147	41.055	50.367	40.520	0.00	0.00
ATOM	2286	C	TYR	X	147	41.366	52.577	38.512	0.00	0.00
ATOM	2287	O	TYR	X	147	42.450	52.051	38.270	0.00	0.00
ATOM	2288	N	ARG	X	148	41.248	53.582	39.390	0.00	0.00
ATOM	2289	H	ARG	X	148	40.366	54.073	39.429	0.00	0.00
ATOM	2290	CA	ARG	X	148	42.482	54.169	40.019	0.00	0.00
ATOM	2291	HA	ARG	X	148	43.253	54.342	39.267	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.142	55.541	40.648	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.355	55.433	41.395	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.019	56.023	41.079	0.00	0.00
ATOM	2295	CG	ARG	X	148	41.591	56.407	39.516	0.00	0.00
ATOM	2296	HG2	ARG	X	148	42.443	56.667	38.887	0.00	0.00

ATOM	2297	HG3	ARG	X	148	40.858	55.943	38.857	0.00	0.00
ATOM	2298	CD	ARG	X	148	40.962	57.736	40.051	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.544	58.184	40.856	0.00	0.00
ATOM	2300	HD3	ARG	X	148	41.091	58.384	39.184	0.00	0.00
ATOM	2301	NE	ARG	X	148	39.652	57.539	40.489	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.222	56.668	40.214	0.00	0.00
ATOM	2303	CZ	ARG	X	148	38.815	58.513	40.826	0.00	0.00
ATOM	2304	NH1	ARG	X	148	39.276	59.717	41.045	0.00	0.00
ATOM	2305	HH11	ARG	X	148	40.244	59.848	40.786	0.00	0.00
ATOM	2306	HH12	ARG	X	148	38.634	60.386	41.444	0.00	0.00
ATOM	2307	NH2	ARG	X	148	37.578	58.233	41.116	0.00	0.00
ATOM	2308	HH21	ARG	X	148	37.224	57.330	40.833	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.020	58.944	41.567	0.00	0.00
ATOM	2310	C	ARG	X	148	43.123	53.317	41.144	0.00	0.00
ATOM	2311	O	ARG	X	148	42.430	52.714	41.946	0.00	0.00
ATOM	2312	N	VAL	X	149	44.424	53.275	40.961	0.00	0.00
ATOM	2313	H	VAL	X	149	44.799	53.758	40.157	0.00	0.00
ATOM	2314	CA	VAL	X	149	45.393	52.515	41.713	0.00	0.00
ATOM	2315	HA	VAL	X	149	44.815	52.059	42.517	0.00	0.00
ATOM	2316	CB	VAL	X	149	45.951	51.335	40.860	0.00	0.00
ATOM	2317	HB	VAL	X	149	46.754	50.869	41.432	0.00	0.00
ATOM	2318	CG1	VAL	X	149	44.867	50.232	40.742	0.00	0.00
ATOM	2319	HG11	VAL	X	149	45.335	49.311	40.396	0.00	0.00
ATOM	2320	HG12	VAL	X	149	44.530	49.782	41.675	0.00	0.00
ATOM	2321	HG13	VAL	X	149	44.114	50.670	40.086	0.00	0.00
ATOM	2322	CG2	VAL	X	149	46.342	51.766	39.419	0.00	0.00
ATOM	2323	HG21	VAL	X	149	46.937	52.679	39.444	0.00	0.00
ATOM	2324	HG22	VAL	X	149	45.378	51.998	38.966	0.00	0.00
ATOM	2325	HG23	VAL	X	149	46.996	50.994	39.012	0.00	0.00
ATOM	2326	C	VAL	X	149	46.548	53.389	42.286	0.00	0.00
ATOM	2327	O	VAL	X	149	47.134	54.227	41.601	0.00	0.00
ATOM	2328	N	GLY	X	150	46.875	53.229	43.552	0.00	0.00
ATOM	2329	H	GLY	X	150	46.433	52.537	44.140	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.854	54.043	44.255	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.593	53.500	44.843	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.366	54.733	43.584	0.00	0.00
ATOM	2333	C	GLY	X	150	47.176	55.003	45.230	0.00	0.00
ATOM	2334	O	GLY	X	150	45.987	54.876	45.520	0.00	0.00
ATOM	2335	N	ALA	X	151	47.835	56.144	45.604	0.00	0.00
ATOM	2336	H	ALA	X	151	48.806	56.275	45.357	0.00	0.00
ATOM	2337	CA	ALA	X	151	47.204	57.297	46.254	0.00	0.00
ATOM	2338	HA	ALA	X	151	46.985	57.032	47.289	0.00	0.00
ATOM	2339	CB	ALA	X	151	48.201	58.450	46.412	0.00	0.00
ATOM	2340	HB1	ALA	X	151	47.686	59.210	46.999	0.00	0.00
ATOM	2341	HB2	ALA	X	151	48.391	58.973	45.476	0.00	0.00
ATOM	2342	HB3	ALA	X	151	49.128	58.081	46.851	0.00	0.00
ATOM	2343	C	ALA	X	151	45.891	57.817	45.538	0.00	0.00
ATOM	2344	O	ALA	X	151	44.860	57.943	46.198	0.00	0.00
ATOM	2345	N	PHE	X	152	45.992	58.033	44.243	0.00	0.00
ATOM	2346	H	PHE	X	152	46.895	58.016	43.791	0.00	0.00
ATOM	2347	CA	PHE	X	152	44.900	58.528	43.381	0.00	0.00
ATOM	2348	HA	PHE	X	152	44.710	59.568	43.645	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.560	58.499	41.977	0.00	0.00
ATOM	2350	HB2	PHE	X	152	46.429	59.150	42.072	0.00	0.00
ATOM	2351	HB3	PHE	X	152	45.942	57.506	41.742	0.00	0.00
ATOM	2352	CG	PHE	X	152	44.708	58.875	40.819	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.143	58.475	39.525	0.00	0.00
ATOM	2354	HD1	PHE	X	152	45.999	57.830	39.388	0.00	0.00
ATOM	2355	CE1	PHE	X	152	44.382	58.827	38.388	0.00	0.00
ATOM	2356	HE1	PHE	X	152	44.652	58.333	37.466	0.00	0.00
ATOM	2357	CZ	PHE	X	152	43.389	59.751	38.492	0.00	0.00
ATOM	2358	HZ	PHE	X	152	42.801	60.065	37.642	0.00	0.00
ATOM	2359	CE2	PHE	X	152	43.019	60.260	39.740	0.00	0.00
ATOM	2360	HE2	PHE	X	152	42.168	60.915	39.855	0.00	0.00
ATOM	2361	CD2	PHE	X	152	43.721	59.834	40.876	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.536	60.187	41.879	0.00	0.00
ATOM	2363	C	PHE	X	152	43.546	57.783	43.583	0.00	0.00

ATOM	2364	O	PHE	X	152	42.520	58.401	43.478	0.00	0.00
ATOM	2365	N	GLY	X	153	43.622	56.516	43.895	0.00	0.00
ATOM	2366	H	GLY	X	153	44.552	56.151	44.042	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.500	55.634	44.080	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.631	56.107	43.623	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.817	54.670	43.682	0.00	0.00
ATOM	2370	C	GLY	X	153	42.225	55.294	45.542	0.00	0.00
ATOM	2371	O	GLY	X	153	41.166	54.671	45.620	0.00	0.00
ATOM	2372	N	PHE	X	154	43.079	55.628	46.530	0.00	0.00
ATOM	2373	H	PHE	X	154	43.857	56.254	46.377	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.040	55.055	47.840	0.00	0.00
ATOM	2375	HA	PHE	X	154	41.985	54.835	48.004	0.00	0.00
ATOM	2376	CB	PHE	X	154	43.782	53.705	47.957	0.00	0.00
ATOM	2377	HB2	PHE	X	154	44.802	53.876	47.613	0.00	0.00
ATOM	2378	HB3	PHE	X	154	43.887	53.377	48.991	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.075	52.662	47.078	0.00	0.00
ATOM	2380	CD1	PHE	X	154	43.697	52.287	45.915	0.00	0.00
ATOM	2381	HD1	PHE	X	154	44.667	52.671	45.635	0.00	0.00
ATOM	2382	CE1	PHE	X	154	43.022	51.346	45.084	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.408	51.188	44.088	0.00	0.00
ATOM	2384	CZ	PHE	X	154	41.805	50.733	45.518	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.319	50.137	44.759	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.300	51.084	46.743	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.334	50.746	47.089	0.00	0.00
ATOM	2388	CD2	PHE	X	154	41.850	52.077	47.537	0.00	0.00
ATOM	2389	HD2	PHE	X	154	41.334	52.462	48.405	0.00	0.00
ATOM	2390	C	PHE	X	154	43.488	55.963	48.986	0.00	0.00
ATOM	2391	O	PHE	X	154	43.458	55.529	50.160	0.00	0.00
ATOM	2392	N	LEU	X	155	44.018	57.187	48.816	0.00	0.00
ATOM	2393	H	LEU	X	155	44.034	57.530	47.866	0.00	0.00
ATOM	2394	CA	LEU	X	155	44.633	57.991	49.886	0.00	0.00
ATOM	2395	HA	LEU	X	155	45.216	57.423	50.612	0.00	0.00
ATOM	2396	CB	LEU	X	155	45.625	59.043	49.263	0.00	0.00
ATOM	2397	HB2	LEU	X	155	46.502	58.508	48.898	0.00	0.00
ATOM	2398	HB3	LEU	X	155	45.194	59.466	48.356	0.00	0.00
ATOM	2399	CG	LEU	X	155	45.987	60.300	50.090	0.00	0.00
ATOM	2400	HG	LEU	X	155	46.033	59.887	51.098	0.00	0.00
ATOM	2401	CD1	LEU	X	155	47.163	60.915	49.432	0.00	0.00
ATOM	2402	HD11	LEU	X	155	47.925	60.198	49.126	0.00	0.00
ATOM	2403	HD12	LEU	X	155	47.641	61.591	50.141	0.00	0.00
ATOM	2404	HD13	LEU	X	155	47.010	61.330	48.436	0.00	0.00
ATOM	2405	CD2	LEU	X	155	44.957	61.473	50.028	0.00	0.00
ATOM	2406	HD21	LEU	X	155	44.116	61.391	50.717	0.00	0.00
ATOM	2407	HD22	LEU	X	155	45.450	62.396	50.335	0.00	0.00
ATOM	2408	HD23	LEU	X	155	44.611	61.537	48.996	0.00	0.00
ATOM	2409	C	LEU	X	155	43.458	58.723	50.649	0.00	0.00
ATOM	2410	O	LEU	X	155	42.577	59.275	49.988	0.00	0.00
ATOM	2411	N	ALA	X	156	43.349	58.614	51.965	0.00	0.00
ATOM	2412	H	ALA	X	156	44.038	58.135	52.528	0.00	0.00
ATOM	2413	CA	ALA	X	156	42.243	59.073	52.841	0.00	0.00
ATOM	2414	HA	ALA	X	156	41.572	59.706	52.260	0.00	0.00
ATOM	2415	CB	ALA	X	156	41.323	57.935	53.363	0.00	0.00
ATOM	2416	HB1	ALA	X	156	40.390	58.278	53.811	0.00	0.00
ATOM	2417	HB2	ALA	X	156	41.930	57.267	53.974	0.00	0.00
ATOM	2418	HB3	ALA	X	156	41.050	57.281	52.534	0.00	0.00
ATOM	2419	C	ALA	X	156	42.862	59.949	53.934	0.00	0.00
ATOM	2420	O	ALA	X	156	43.965	59.824	54.432	0.00	0.00
ATOM	2421	N	LEU	X	157	41.997	60.903	54.353	0.00	0.00
ATOM	2422	H	LEU	X	157	41.138	61.050	53.842	0.00	0.00
ATOM	2423	CA	LEU	X	157	42.189	61.864	55.456	0.00	0.00
ATOM	2424	HA	LEU	X	157	43.009	61.471	56.057	0.00	0.00
ATOM	2425	CB	LEU	X	157	42.567	63.260	54.950	0.00	0.00
ATOM	2426	HB2	LEU	X	157	41.666	63.732	54.557	0.00	0.00
ATOM	2427	HB3	LEU	X	157	42.920	63.846	55.799	0.00	0.00
ATOM	2428	CG	LEU	X	157	43.671	63.276	53.882	0.00	0.00
ATOM	2429	HG	LEU	X	157	43.482	62.429	53.222	0.00	0.00
ATOM	2430	CD1	LEU	X	157	43.489	64.499	53.023	0.00	0.00

ATOM	2431	HD11	LEU	X	157	43.602	65.394	53.633	0.00	0.00
ATOM	2432	HD12	LEU	X	157	42.456	64.477	52.676	0.00	0.00
ATOM	2433	HD13	LEU	X	157	44.207	64.436	52.205	0.00	0.00
ATOM	2434	CD2	LEU	X	157	45.128	63.175	54.424	0.00	0.00
ATOM	2435	HD21	LEU	X	157	45.442	64.008	55.054	0.00	0.00
ATOM	2436	HD22	LEU	X	157	45.199	62.219	54.944	0.00	0.00
ATOM	2437	HD23	LEU	X	157	45.753	63.152	53.531	0.00	0.00
ATOM	2438	C	LEU	X	157	40.865	61.957	56.327	0.00	0.00
ATOM	2439	O	LEU	X	157	39.789	62.236	55.724	0.00	0.00
ATOM	2440	N	PRO	X	158	40.986	61.685	57.612	0.00	0.00
ATOM	2441	CD	PRO	X	158	42.224	61.511	58.388	0.00	0.00
ATOM	2442	HD2	PRO	X	158	42.983	62.269	58.197	0.00	0.00
ATOM	2443	HD3	PRO	X	158	42.674	60.567	58.080	0.00	0.00
ATOM	2444	CG	PRO	X	158	41.787	61.512	59.801	0.00	0.00
ATOM	2445	HG2	PRO	X	158	42.039	62.489	60.214	0.00	0.00
ATOM	2446	HG3	PRO	X	158	42.235	60.676	60.339	0.00	0.00
ATOM	2447	CB	PRO	X	158	40.277	61.431	59.871	0.00	0.00
ATOM	2448	HB2	PRO	X	158	39.849	61.880	60.767	0.00	0.00
ATOM	2449	HB3	PRO	X	158	39.910	60.412	59.994	0.00	0.00
ATOM	2450	CA	PRO	X	158	39.877	62.000	58.536	0.00	0.00
ATOM	2451	HA	PRO	X	158	38.949	61.492	58.272	0.00	0.00
ATOM	2452	C	PRO	X	158	39.611	63.496	58.638	0.00	0.00
ATOM	2453	O	PRO	X	158	40.474	64.281	58.229	0.00	0.00
ATOM	2454	N	GLY	X	159	38.509	63.831	59.351	0.00	0.00
ATOM	2455	H	GLY	X	159	37.898	63.099	59.684	0.00	0.00
ATOM	2456	CA	GLY	X	159	38.165	65.221	59.666	0.00	0.00
ATOM	2457	HA2	GLY	X	159	37.681	65.261	60.641	0.00	0.00
ATOM	2458	HA3	GLY	X	159	39.093	65.793	59.681	0.00	0.00
ATOM	2459	C	GLY	X	159	37.298	65.891	58.647	0.00	0.00
ATOM	2460	O	GLY	X	159	36.935	67.057	58.970	0.00	0.00
ATOM	2461	N	SER	X	160	36.991	65.265	57.527	0.00	0.00
ATOM	2462	H	SER	X	160	37.278	64.298	57.467	0.00	0.00
ATOM	2463	CA	SER	X	160	36.308	65.696	56.292	0.00	0.00
ATOM	2464	HA	SER	X	160	35.299	65.990	56.579	0.00	0.00
ATOM	2465	CB	SER	X	160	36.955	66.882	55.677	0.00	0.00
ATOM	2466	HB2	SER	X	160	36.343	67.145	54.814	0.00	0.00
ATOM	2467	HB3	SER	X	160	37.055	67.743	56.338	0.00	0.00
ATOM	2468	OG	SER	X	160	38.299	66.586	55.229	0.00	0.00
ATOM	2469	HG	SER	X	160	38.813	66.771	56.019	0.00	0.00
ATOM	2470	C	SER	X	160	36.178	64.518	55.263	0.00	0.00
ATOM	2471	O	SER	X	160	36.778	63.467	55.484	0.00	0.00
ATOM	2472	N	ARG	X	161	35.515	64.799	54.139	0.00	0.00
ATOM	2473	H	ARG	X	161	35.153	65.742	54.115	0.00	0.00
ATOM	2474	CA	ARG	X	161	35.295	63.915	53.024	0.00	0.00
ATOM	2475	HA	ARG	X	161	35.798	62.989	53.300	0.00	0.00
ATOM	2476	CB	ARG	X	161	33.785	63.740	52.810	0.00	0.00
ATOM	2477	HB2	ARG	X	161	33.278	64.151	53.683	0.00	0.00
ATOM	2478	HB3	ARG	X	161	33.439	64.347	51.973	0.00	0.00
ATOM	2479	CG	ARG	X	161	33.333	62.266	52.686	0.00	0.00
ATOM	2480	HG2	ARG	X	161	32.280	62.336	52.414	0.00	0.00
ATOM	2481	HG3	ARG	X	161	33.981	61.769	51.965	0.00	0.00
ATOM	2482	CD	ARG	X	161	33.416	61.368	53.997	0.00	0.00
ATOM	2483	HD2	ARG	X	161	33.290	62.018	54.863	0.00	0.00
ATOM	2484	HD3	ARG	X	161	32.590	60.658	53.955	0.00	0.00
ATOM	2485	NE	ARG	X	161	34.655	60.603	54.098	0.00	0.00
ATOM	2486	HE	ARG	X	161	35.590	60.982	54.145	0.00	0.00
ATOM	2487	CZ	ARG	X	161	34.711	59.256	54.204	0.00	0.00
ATOM	2488	NH1	ARG	X	161	33.694	58.472	54.309	0.00	0.00
ATOM	2489	HH11	ARG	X	161	32.857	58.980	54.555	0.00	0.00
ATOM	2490	HH12	ARG	X	161	33.922	57.491	54.392	0.00	0.00
ATOM	2491	NH2	ARG	X	161	35.875	58.620	54.221	0.00	0.00
ATOM	2492	HH21	ARG	X	161	36.729	59.158	54.247	0.00	0.00
ATOM	2493	HH22	ARG	X	161	35.829	57.611	54.208	0.00	0.00
ATOM	2494	C	ARG	X	161	36.016	64.541	51.783	0.00	0.00
ATOM	2495	O	ARG	X	161	35.591	64.358	50.629	0.00	0.00
ATOM	2496	N	GLU	X	162	37.015	65.364	51.999	0.00	0.00
ATOM	2497	H	GLU	X	162	37.467	65.317	52.901	0.00	0.00

ATOM	2498	CA	GLU	X	162	37.886	65.976	50.980	0.00	0.00
ATOM	2499	HA	GLU	X	162	37.233	66.372	50.202	0.00	0.00
ATOM	2500	CB	GLU	X	162	38.791	66.946	51.758	0.00	0.00
ATOM	2501	HB2	GLU	X	162	39.214	66.521	52.669	0.00	0.00
ATOM	2502	HB3	GLU	X	162	39.571	67.164	51.029	0.00	0.00
ATOM	2503	CG	GLU	X	162	38.089	68.237	52.097	0.00	0.00
ATOM	2504	HG2	GLU	X	162	37.320	68.148	52.864	0.00	0.00
ATOM	2505	HG3	GLU	X	162	38.880	68.916	52.416	0.00	0.00
ATOM	2506	CD	GLU	X	162	37.461	68.674	50.800	0.00	0.00
ATOM	2507	OE1	GLU	X	162	38.141	69.284	49.941	0.00	0.00
ATOM	2508	OE2	GLU	X	162	36.282	68.498	50.609	0.00	0.00
ATOM	2509	C	GLU	X	162	38.699	64.953	50.261	0.00	0.00
ATOM	2510	O	GLU	X	162	39.107	65.083	49.137	0.00	0.00
ATOM	2511	N	ALA	X	163	38.987	63.880	50.992	0.00	0.00
ATOM	2512	H	ALA	X	163	39.070	64.028	51.988	0.00	0.00
ATOM	2513	CA	ALA	X	163	39.624	62.636	50.536	0.00	0.00
ATOM	2514	HA	ALA	X	163	39.486	62.453	49.471	0.00	0.00
ATOM	2515	CB	ALA	X	163	41.112	62.714	50.674	0.00	0.00
ATOM	2516	HB1	ALA	X	163	41.272	62.792	51.749	0.00	0.00
ATOM	2517	HB2	ALA	X	163	41.411	63.627	50.158	0.00	0.00
ATOM	2518	HB3	ALA	X	163	41.556	61.788	50.307	0.00	0.00
ATOM	2519	C	ALA	X	163	39.027	61.360	51.277	0.00	0.00
ATOM	2520	O	ALA	X	163	39.510	60.958	52.324	0.00	0.00
ATOM	2521	N	PRO	X	164	38.043	60.718	50.643	0.00	0.00
ATOM	2522	CD	PRO	X	164	37.123	61.421	49.644	0.00	0.00
ATOM	2523	HD2	PRO	X	164	37.689	61.624	48.735	0.00	0.00
ATOM	2524	HD3	PRO	X	164	36.617	62.268	50.107	0.00	0.00
ATOM	2525	CG	PRO	X	164	36.067	60.400	49.340	0.00	0.00
ATOM	2526	HG2	PRO	X	164	36.358	59.824	48.462	0.00	0.00
ATOM	2527	HG3	PRO	X	164	35.071	60.813	49.181	0.00	0.00
ATOM	2528	CB	PRO	X	164	35.999	59.408	50.515	0.00	0.00
ATOM	2529	HB2	PRO	X	164	35.844	58.389	50.160	0.00	0.00
ATOM	2530	HB3	PRO	X	164	35.239	59.800	51.190	0.00	0.00
ATOM	2531	CA	PRO	X	164	37.383	59.527	51.150	0.00	0.00
ATOM	2532	HA	PRO	X	164	37.394	59.600	52.238	0.00	0.00
ATOM	2533	C	PRO	X	164	38.157	58.243	50.924	0.00	0.00
ATOM	2534	O	PRO	X	164	37.747	57.229	51.437	0.00	0.00
ATOM	2535	N	GLY	X	165	39.084	58.165	49.998	0.00	0.00
ATOM	2536	H	GLY	X	165	39.386	59.009	49.532	0.00	0.00
ATOM	2537	CA	GLY	X	165	39.967	57.002	49.882	0.00	0.00
ATOM	2538	HA2	GLY	X	165	40.899	57.396	49.477	0.00	0.00
ATOM	2539	HA3	GLY	X	165	40.120	56.429	50.797	0.00	0.00
ATOM	2540	C	GLY	X	165	39.434	56.014	48.797	0.00	0.00
ATOM	2541	O	GLY	X	165	39.793	56.189	47.655	0.00	0.00
ATOM	2542	N	ASN	X	166	38.622	55.032	49.147	0.00	0.00
ATOM	2543	H	ASN	X	166	38.304	55.007	50.105	0.00	0.00
ATOM	2544	CA	ASN	X	166	38.125	53.833	48.300	0.00	0.00
ATOM	2545	HA	ASN	X	166	38.959	53.152	48.128	0.00	0.00
ATOM	2546	CB	ASN	X	166	37.048	53.127	49.165	0.00	0.00
ATOM	2547	HB2	ASN	X	166	36.311	53.871	49.469	0.00	0.00
ATOM	2548	HB3	ASN	X	166	36.462	52.346	48.681	0.00	0.00
ATOM	2549	CG	ASN	X	166	37.694	52.645	50.440	0.00	0.00
ATOM	2550	OD1	ASN	X	166	38.396	51.629	50.425	0.00	0.00
ATOM	2551	ND2	ASN	X	166	37.349	53.193	51.610	0.00	0.00
ATOM	2552	HD21	ASN	X	166	37.629	52.568	52.353	0.00	0.00
ATOM	2553	HD22	ASN	X	166	36.629	53.896	51.692	0.00	0.00
ATOM	2554	C	ASN	X	166	37.679	54.117	46.877	0.00	0.00
ATOM	2555	O	ASN	X	166	37.205	53.155	46.239	0.00	0.00
ATOM	2556	N	VAL	X	167	37.792	55.364	46.360	0.00	0.00
ATOM	2557	H	VAL	X	167	38.132	56.111	46.949	0.00	0.00
ATOM	2558	CA	VAL	X	167	37.403	55.690	45.019	0.00	0.00
ATOM	2559	HA	VAL	X	167	36.316	55.615	45.062	0.00	0.00
ATOM	2560	CB	VAL	X	167	37.671	57.172	44.607	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.039	57.502	43.782	0.00	0.00
ATOM	2562	CG1	VAL	X	167	37.382	58.097	45.795	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.118	57.851	46.560	0.00	0.00
ATOM	2564	HG12	VAL	X	167	37.317	59.146	45.508	0.00	0.00

ATOM	2565	HG13	VAL	X	167	36.359	58.012	46.162	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.142	57.410	44.362	0.00	0.00
ATOM	2567	HG21	VAL	X	167	39.643	57.288	45.322	0.00	0.00
ATOM	2568	HG22	VAL	X	167	39.418	58.416	44.044	0.00	0.00
ATOM	2569	HG23	VAL	X	167	39.490	56.725	43.589	0.00	0.00
ATOM	2570	C	VAL	X	167	37.786	54.679	43.876	0.00	0.00
ATOM	2571	O	VAL	X	167	37.102	54.610	42.867	0.00	0.00
ATOM	2572	N	GLY	X	168	38.848	53.872	44.119	0.00	0.00
ATOM	2573	H	GLY	X	168	39.346	53.914	44.997	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.350	52.794	43.190	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.409	53.157	42.164	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.363	52.460	43.413	0.00	0.00
ATOM	2577	C	GLY	X	168	38.527	51.528	43.117	0.00	0.00
ATOM	2578	O	GLY	X	168	38.504	50.892	42.067	0.00	0.00
ATOM	2579	N	LEU	X	169	37.625	51.296	44.088	0.00	0.00
ATOM	2580	H	LEU	X	169	37.587	51.898	44.898	0.00	0.00
ATOM	2581	CA	LEU	X	169	36.463	50.333	44.079	0.00	0.00
ATOM	2582	HA	LEU	X	169	36.644	49.540	43.354	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.279	49.683	45.486	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.445	50.442	46.250	0.00	0.00
ATOM	2585	HB3	LEU	X	169	35.252	49.346	45.627	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.276	48.523	45.612	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.148	48.768	45.006	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.676	48.306	47.086	0.00	0.00
ATOM	2589	HD11	LEU	X	169	38.426	47.516	47.122	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.783	47.971	47.613	0.00	0.00
ATOM	2591	HD13	LEU	X	169	38.066	49.172	47.621	0.00	0.00
ATOM	2592	CD2	LEU	X	169	36.634	47.252	44.995	0.00	0.00
ATOM	2593	HD21	LEU	X	169	36.376	47.383	43.944	0.00	0.00
ATOM	2594	HD22	LEU	X	169	37.331	46.414	44.989	0.00	0.00
ATOM	2595	HD23	LEU	X	169	35.700	46.963	45.476	0.00	0.00
ATOM	2596	C	LEU	X	169	35.083	50.980	43.728	0.00	0.00
ATOM	2597	O	LEU	X	169	34.126	50.250	43.430	0.00	0.00
ATOM	2598	N	LEU	X	170	34.938	52.299	43.797	0.00	0.00
ATOM	2599	H	LEU	X	170	35.729	52.825	44.142	0.00	0.00
ATOM	2600	CA	LEU	X	170	33.708	52.980	43.418	0.00	0.00
ATOM	2601	HA	LEU	X	170	32.825	52.349	43.528	0.00	0.00
ATOM	2602	CB	LEU	X	170	33.534	54.261	44.324	0.00	0.00
ATOM	2603	HB2	LEU	X	170	34.182	55.075	44.000	0.00	0.00
ATOM	2604	HB3	LEU	X	170	32.507	54.601	44.188	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.710	54.050	45.860	0.00	0.00
ATOM	2606	HG	LEU	X	170	34.718	53.795	46.184	0.00	0.00
ATOM	2607	CD1	LEU	X	170	33.515	55.524	46.322	0.00	0.00
ATOM	2608	HD11	LEU	X	170	34.294	56.220	46.010	0.00	0.00
ATOM	2609	HD12	LEU	X	170	33.475	55.597	47.409	0.00	0.00
ATOM	2610	HD13	LEU	X	170	32.475	55.790	46.137	0.00	0.00
ATOM	2611	CD2	LEU	X	170	32.759	53.033	46.580	0.00	0.00
ATOM	2612	HD21	LEU	X	170	31.882	52.953	45.937	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.251	52.087	46.809	0.00	0.00
ATOM	2614	HD23	LEU	X	170	32.485	53.506	47.523	0.00	0.00
ATOM	2615	C	LEU	X	170	33.811	53.336	41.930	0.00	0.00
ATOM	2616	O	LEU	X	170	32.761	53.384	41.268	0.00	0.00
ATOM	2617	N	ASP	X	171	35.005	53.488	41.386	0.00	0.00
ATOM	2618	H	ASP	X	171	35.804	53.852	41.886	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.338	53.346	39.976	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.817	54.159	39.470	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.824	53.354	39.645	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.274	52.679	40.374	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.027	52.980	38.642	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.466	54.713	39.805	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.800	55.795	39.973	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.699	54.842	39.482	0.00	0.00
ATOM	2627	C	ASP	X	171	34.774	52.051	39.356	0.00	0.00
ATOM	2628	O	ASP	X	171	34.052	51.975	38.402	0.00	0.00
ATOM	2629	N	GLN	X	172	35.144	50.934	39.986	0.00	0.00
ATOM	2630	H	GLN	X	172	35.580	51.073	40.887	0.00	0.00
ATOM	2631	CA	GLN	X	172	34.675	49.632	39.515	0.00	0.00

ATOM	2632	HA	GLN	X	172	35.009	49.461	38.491	0.00	0.00
ATOM	2633	CB	GLN	X	172	35.392	48.480	40.312	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.320	48.526	41.398	0.00	0.00
ATOM	2635	HB3	GLN	X	172	34.919	47.546	40.009	0.00	0.00
ATOM	2636	CG	GLN	X	172	36.869	48.291	40.052	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.081	47.913	39.052	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.452	49.203	40.183	0.00	0.00
ATOM	2639	CD	GLN	X	172	37.590	47.275	40.989	0.00	0.00
ATOM	2640	OE1	GLN	X	172	36.988	46.261	41.407	0.00	0.00
ATOM	2641	NE2	GLN	X	172	38.866	47.343	41.355	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.305	46.644	41.937	0.00	0.00
ATOM	2643	HE22	GLN	X	172	39.558	47.846	40.820	0.00	0.00
ATOM	2644	C	GLN	X	172	33.177	49.382	39.663	0.00	0.00
ATOM	2645	O	GLN	X	172	32.631	48.962	38.704	0.00	0.00
ATOM	2646	N	ARG	X	173	32.540	49.861	40.763	0.00	0.00
ATOM	2647	H	ARG	X	173	33.002	50.377	41.497	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.079	49.742	40.942	0.00	0.00
ATOM	2649	HA	ARG	X	173	30.774	48.696	40.900	0.00	0.00
ATOM	2650	CB	ARG	X	173	30.727	50.182	42.333	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.282	49.633	43.093	0.00	0.00
ATOM	2652	HB3	ARG	X	173	30.779	51.238	42.596	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.288	49.751	42.611	0.00	0.00
ATOM	2654	HG2	ARG	X	173	28.676	49.995	41.742	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.160	48.669	42.608	0.00	0.00
ATOM	2656	CD	ARG	X	173	28.540	50.292	43.918	0.00	0.00
ATOM	2657	HD2	ARG	X	173	28.745	51.351	44.069	0.00	0.00
ATOM	2658	HD3	ARG	X	173	27.474	50.244	43.694	0.00	0.00
ATOM	2659	NE	ARG	X	173	28.850	49.461	45.083	0.00	0.00
ATOM	2660	HE	ARG	X	173	28.884	48.455	44.998	0.00	0.00
ATOM	2661	CZ	ARG	X	173	29.261	49.951	46.273	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.187	51.229	46.668	0.00	0.00
ATOM	2663	HH11	ARG	X	173	28.734	51.950	46.125	0.00	0.00
ATOM	2664	HH12	ARG	X	173	29.560	51.486	47.571	0.00	0.00
ATOM	2665	NH2	ARG	X	173	29.623	49.178	47.259	0.00	0.00
ATOM	2666	HH21	ARG	X	173	29.630	48.192	47.043	0.00	0.00
ATOM	2667	HH22	ARG	X	173	29.718	49.538	48.198	0.00	0.00
ATOM	2668	C	ARG	X	173	30.312	50.525	39.779	0.00	0.00
ATOM	2669	O	ARG	X	173	29.256	49.960	39.419	0.00	0.00
ATOM	2670	N	LEU	X	174	30.726	51.737	39.326	0.00	0.00
ATOM	2671	H	LEU	X	174	31.629	52.112	39.579	0.00	0.00
ATOM	2672	CA	LEU	X	174	29.994	52.364	38.287	0.00	0.00
ATOM	2673	HA	LEU	X	174	28.959	52.280	38.618	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.513	53.829	38.253	0.00	0.00
ATOM	2675	HB2	LEU	X	174	30.723	54.210	39.253	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.467	53.812	37.725	0.00	0.00
ATOM	2677	CG	LEU	X	174	29.624	54.786	37.505	0.00	0.00
ATOM	2678	HG	LEU	X	174	29.389	54.321	36.548	0.00	0.00
ATOM	2679	CD1	LEU	X	174	28.352	54.996	38.252	0.00	0.00
ATOM	2680	HD11	LEU	X	174	27.745	55.833	37.906	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.533	55.139	39.317	0.00	0.00
ATOM	2682	HD13	LEU	X	174	27.661	54.153	38.234	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.262	56.144	37.177	0.00	0.00
ATOM	2684	HD21	LEU	X	174	30.870	55.925	36.300	0.00	0.00
ATOM	2685	HD22	LEU	X	174	29.526	56.941	37.069	0.00	0.00
ATOM	2686	HD23	LEU	X	174	30.804	56.382	38.092	0.00	0.00
ATOM	2687	C	LEU	X	174	30.101	51.648	36.939	0.00	0.00
ATOM	2688	O	LEU	X	174	29.122	51.765	36.241	0.00	0.00
ATOM	2689	N	ALA	X	175	31.172	50.918	36.613	0.00	0.00
ATOM	2690	H	ALA	X	175	31.960	50.983	37.241	0.00	0.00
ATOM	2691	CA	ALA	X	175	31.250	50.026	35.440	0.00	0.00
ATOM	2692	HA	ALA	X	175	30.963	50.580	34.546	0.00	0.00
ATOM	2693	CB	ALA	X	175	32.677	49.598	35.301	0.00	0.00
ATOM	2694	HB1	ALA	X	175	32.985	49.061	36.197	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.386	50.381	35.029	0.00	0.00
ATOM	2696	HB3	ALA	X	175	32.643	48.903	34.462	0.00	0.00
ATOM	2697	C	ALA	X	175	30.238	48.866	35.518	0.00	0.00
ATOM	2698	O	ALA	X	175	29.571	48.606	34.516	0.00	0.00

ATOM	2699	N	LEU	X	176	30.159	48.158	36.623	0.00	0.00
ATOM	2700	H	LEU	X	176	30.723	48.443	37.411	0.00	0.00
ATOM	2701	CA	LEU	X	176	29.327	46.965	36.763	0.00	0.00
ATOM	2702	HA	LEU	X	176	29.636	46.105	36.170	0.00	0.00
ATOM	2703	CB	LEU	X	176	29.235	46.375	38.206	0.00	0.00
ATOM	2704	HB2	LEU	X	176	28.714	47.048	38.887	0.00	0.00
ATOM	2705	HB3	LEU	X	176	28.605	45.485	38.185	0.00	0.00
ATOM	2706	CG	LEU	X	176	30.536	45.882	38.848	0.00	0.00
ATOM	2707	HG	LEU	X	176	31.191	46.667	39.224	0.00	0.00
ATOM	2708	CD1	LEU	X	176	30.116	45.065	40.059	0.00	0.00
ATOM	2709	HD11	LEU	X	176	29.677	45.748	40.787	0.00	0.00
ATOM	2710	HD12	LEU	X	176	30.950	44.586	40.572	0.00	0.00
ATOM	2711	HD13	LEU	X	176	29.387	44.308	39.774	0.00	0.00
ATOM	2712	CD2	LEU	X	176	31.402	45.116	37.883	0.00	0.00
ATOM	2713	HD21	LEU	X	176	32.203	44.742	38.520	0.00	0.00
ATOM	2714	HD22	LEU	X	176	30.774	44.343	37.441	0.00	0.00
ATOM	2715	HD23	LEU	X	176	31.783	45.843	37.166	0.00	0.00
ATOM	2716	C	LEU	X	176	27.864	47.357	36.381	0.00	0.00
ATOM	2717	O	LEU	X	176	27.114	46.631	35.773	0.00	0.00
ATOM	2718	N	GLN	X	177	27.421	48.525	36.891	0.00	0.00
ATOM	2719	H	GLN	X	177	28.018	49.066	37.500	0.00	0.00
ATOM	2720	CA	GLN	X	177	26.175	49.183	36.708	0.00	0.00
ATOM	2721	HA	GLN	X	177	25.348	48.535	36.998	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.145	50.422	37.507	0.00	0.00
ATOM	2723	HB2	GLN	X	177	27.049	50.958	37.217	0.00	0.00
ATOM	2724	HB3	GLN	X	177	25.308	51.021	37.148	0.00	0.00
ATOM	2725	CG	GLN	X	177	25.977	50.258	39.073	0.00	0.00
ATOM	2726	HG2	GLN	X	177	25.094	49.732	39.437	0.00	0.00
ATOM	2727	HG3	GLN	X	177	26.809	49.648	39.425	0.00	0.00
ATOM	2728	CD	GLN	X	177	25.939	51.656	39.785	0.00	0.00
ATOM	2729	OE1	GLN	X	177	26.860	52.475	39.808	0.00	0.00
ATOM	2730	NE2	GLN	X	177	24.866	52.060	40.383	0.00	0.00
ATOM	2731	HE21	GLN	X	177	24.986	52.785	41.076	0.00	0.00
ATOM	2732	HE22	GLN	X	177	24.099	51.405	40.444	0.00	0.00
ATOM	2733	C	GLN	X	177	26.009	49.556	35.216	0.00	0.00
ATOM	2734	O	GLN	X	177	25.029	49.170	34.661	0.00	0.00
ATOM	2735	N	TRP	X	178	27.057	50.063	34.522	0.00	0.00
ATOM	2736	H	TRP	X	178	27.889	50.230	35.069	0.00	0.00
ATOM	2737	CA	TRP	X	178	27.050	50.373	33.144	0.00	0.00
ATOM	2738	HA	TRP	X	178	26.224	51.055	32.943	0.00	0.00
ATOM	2739	CB	TRP	X	178	28.346	51.040	32.704	0.00	0.00
ATOM	2740	HB2	TRP	X	178	28.659	51.834	33.382	0.00	0.00
ATOM	2741	HB3	TRP	X	178	29.123	50.277	32.761	0.00	0.00
ATOM	2742	CG	TRP	X	178	28.460	51.650	31.375	0.00	0.00
ATOM	2743	CD1	TRP	X	178	28.463	52.959	31.078	0.00	0.00
ATOM	2744	HD1	TRP	X	178	28.389	53.719	31.841	0.00	0.00
ATOM	2745	NE1	TRP	X	178	28.625	53.276	29.771	0.00	0.00
ATOM	2746	HE1	TRP	X	178	28.725	54.221	29.429	0.00	0.00
ATOM	2747	CE2	TRP	X	178	28.796	52.163	29.011	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	29.038	51.851	27.660	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	29.174	52.629	26.924	0.00	0.00
ATOM	2750	CH2	TRP	X	178	28.946	50.568	27.165	0.00	0.00
ATOM	2751	HH2	TRP	X	178	29.104	50.410	26.109	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	28.860	49.571	28.102	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	28.913	48.553	27.746	0.00	0.00
ATOM	2754	CE3	TRP	X	178	28.756	49.834	29.484	0.00	0.00
ATOM	2755	HE3	TRP	X	178	28.715	48.986	30.152	0.00	0.00
ATOM	2756	CD2	TRP	X	178	28.677	51.120	30.008	0.00	0.00
ATOM	2757	C	TRP	X	178	26.823	49.014	32.435	0.00	0.00
ATOM	2758	O	TRP	X	178	26.143	49.040	31.359	0.00	0.00
ATOM	2759	N	VAL	X	179	27.371	47.836	32.863	0.00	0.00
ATOM	2760	H	VAL	X	179	27.877	47.956	33.728	0.00	0.00
ATOM	2761	CA	VAL	X	179	27.212	46.499	32.199	0.00	0.00
ATOM	2762	HA	VAL	X	179	27.376	46.591	31.125	0.00	0.00
ATOM	2763	CB	VAL	X	179	28.111	45.450	32.795	0.00	0.00
ATOM	2764	HB	VAL	X	179	28.052	45.612	33.871	0.00	0.00
ATOM	2765	CG1	VAL	X	179	27.612	44.009	32.490	0.00	0.00

ATOM	2766	HG11	VAL	X	179	28.043	43.309	33.206	0.00	0.00
ATOM	2767	HG12	VAL	X	179	26.549	43.860	32.682	0.00	0.00
ATOM	2768	HG13	VAL	X	179	27.825	43.691	31.469	0.00	0.00
ATOM	2769	CG2	VAL	X	179	29.559	45.572	32.322	0.00	0.00
ATOM	2770	HG21	VAL	X	179	29.819	46.618	32.483	0.00	0.00
ATOM	2771	HG22	VAL	X	179	29.506	45.500	31.236	0.00	0.00
ATOM	2772	HG23	VAL	X	179	30.235	44.925	32.881	0.00	0.00
ATOM	2773	C	VAL	X	179	25.732	46.153	32.249	0.00	0.00
ATOM	2774	O	VAL	X	179	25.137	45.742	31.247	0.00	0.00
ATOM	2775	N	GLN	X	180	25.158	46.302	33.432	0.00	0.00
ATOM	2776	H	GLN	X	180	25.634	46.823	34.154	0.00	0.00
ATOM	2777	CA	GLN	X	180	23.772	46.027	33.673	0.00	0.00
ATOM	2778	HA	GLN	X	180	23.756	44.938	33.702	0.00	0.00
ATOM	2779	CB	GLN	X	180	23.426	46.378	35.133	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.163	45.806	35.697	0.00	0.00
ATOM	2781	HB3	GLN	X	180	23.682	47.398	35.419	0.00	0.00
ATOM	2782	CG	GLN	X	180	21.999	45.973	35.635	0.00	0.00
ATOM	2783	HG2	GLN	X	180	21.231	46.528	35.096	0.00	0.00
ATOM	2784	HG3	GLN	X	180	21.720	44.936	35.447	0.00	0.00
ATOM	2785	CD	GLN	X	180	21.823	46.266	37.099	0.00	0.00
ATOM	2786	OE1	GLN	X	180	21.986	47.402	37.558	0.00	0.00
ATOM	2787	NE2	GLN	X	180	21.464	45.273	37.923	0.00	0.00
ATOM	2788	HE21	GLN	X	180	21.429	45.367	38.928	0.00	0.00
ATOM	2789	HE22	GLN	X	180	20.986	44.441	37.607	0.00	0.00
ATOM	2790	C	GLN	X	180	22.845	46.837	32.691	0.00	0.00
ATOM	2791	O	GLN	X	180	21.997	46.144	32.104	0.00	0.00
ATOM	2792	N	GLU	X	181	23.076	48.127	32.503	0.00	0.00
ATOM	2793	H	GLU	X	181	23.936	48.553	32.820	0.00	0.00
ATOM	2794	CA	GLU	X	181	22.255	48.898	31.520	0.00	0.00
ATOM	2795	HA	GLU	X	181	21.196	48.741	31.726	0.00	0.00
ATOM	2796	CB	GLU	X	181	22.396	50.439	31.731	0.00	0.00
ATOM	2797	HB2	GLU	X	181	23.298	50.843	31.272	0.00	0.00
ATOM	2798	HB3	GLU	X	181	21.550	50.997	31.330	0.00	0.00
ATOM	2799	CG	GLU	X	181	22.358	50.952	33.180	0.00	0.00
ATOM	2800	HG2	GLU	X	181	21.598	50.395	33.727	0.00	0.00
ATOM	2801	HG3	GLU	X	181	23.294	50.706	33.681	0.00	0.00
ATOM	2802	CD	GLU	X	181	22.136	52.433	33.410	0.00	0.00
ATOM	2803	OE1	GLU	X	181	21.454	52.771	34.410	0.00	0.00
ATOM	2804	OE2	GLU	X	181	22.572	53.235	32.576	0.00	0.00
ATOM	2805	C	GLU	X	181	22.614	48.515	30.064	0.00	0.00
ATOM	2806	O	GLU	X	181	21.692	48.344	29.290	0.00	0.00
ATOM	2807	N	ASN	X	182	23.910	48.417	29.676	0.00	0.00
ATOM	2808	H	ASN	X	182	24.563	48.522	30.439	0.00	0.00
ATOM	2809	CA	ASN	X	182	24.277	48.467	28.277	0.00	0.00
ATOM	2810	HA	ASN	X	182	23.371	48.790	27.764	0.00	0.00
ATOM	2811	CB	ASN	X	182	25.491	49.529	28.125	0.00	0.00
ATOM	2812	HB2	ASN	X	182	26.397	49.344	28.702	0.00	0.00
ATOM	2813	HB3	ASN	X	182	25.820	49.587	27.087	0.00	0.00
ATOM	2814	CG	ASN	X	182	25.024	50.943	28.466	0.00	0.00
ATOM	2815	OD1	ASN	X	182	24.229	51.553	27.678	0.00	0.00
ATOM	2816	ND2	ASN	X	182	25.419	51.579	29.526	0.00	0.00
ATOM	2817	HD21	ASN	X	182	25.008	52.480	29.725	0.00	0.00
ATOM	2818	HD22	ASN	X	182	26.117	51.149	30.116	0.00	0.00
ATOM	2819	C	ASN	X	182	24.606	47.124	27.515	0.00	0.00
ATOM	2820	O	ASN	X	182	24.380	47.059	26.289	0.00	0.00
ATOM	2821	N	VAL	X	183	25.085	46.116	28.223	0.00	0.00
ATOM	2822	H	VAL	X	183	25.177	46.244	29.221	0.00	0.00
ATOM	2823	CA	VAL	X	183	25.866	45.015	27.608	0.00	0.00
ATOM	2824	HA	VAL	X	183	26.737	45.573	27.264	0.00	0.00
ATOM	2825	CB	VAL	X	183	26.333	43.922	28.617	0.00	0.00
ATOM	2826	HB	VAL	X	183	26.681	44.386	29.540	0.00	0.00
ATOM	2827	CG1	VAL	X	183	25.183	42.914	29.100	0.00	0.00
ATOM	2828	HG11	VAL	X	183	25.120	42.151	28.323	0.00	0.00
ATOM	2829	HG12	VAL	X	183	25.400	42.390	30.030	0.00	0.00
ATOM	2830	HG13	VAL	X	183	24.275	43.517	29.117	0.00	0.00
ATOM	2831	CG2	VAL	X	183	27.509	43.089	28.191	0.00	0.00
ATOM	2832	HG21	VAL	X	183	27.903	42.571	29.066	0.00	0.00

ATOM	2833	HG22	VAL	X	183	28.361	43.704	27.900	0.00	0.00
ATOM	2834	HG23	VAL	X	183	27.200	42.408	27.399	0.00	0.00
ATOM	2835	C	VAL	X	183	25.206	44.329	26.357	0.00	0.00
ATOM	2836	O	VAL	X	183	25.865	43.843	25.443	0.00	0.00
ATOM	2837	N	ALA	X	184	23.854	44.118	26.390	0.00	0.00
ATOM	2838	H	ALA	X	184	23.322	44.379	27.208	0.00	0.00
ATOM	2839	CA	ALA	X	184	23.129	43.543	25.274	0.00	0.00
ATOM	2840	HA	ALA	X	184	23.470	42.511	25.193	0.00	0.00
ATOM	2841	CB	ALA	X	184	21.670	43.459	25.662	0.00	0.00
ATOM	2842	HB1	ALA	X	184	21.560	43.003	26.647	0.00	0.00
ATOM	2843	HB2	ALA	X	184	21.078	42.795	25.032	0.00	0.00
ATOM	2844	HB3	ALA	X	184	21.223	44.447	25.775	0.00	0.00
ATOM	2845	C	ALA	X	184	23.351	44.185	23.897	0.00	0.00
ATOM	2846	O	ALA	X	184	23.260	43.440	22.930	0.00	0.00
ATOM	2847	N	ALA	X	185	23.705	45.444	23.746	0.00	0.00
ATOM	2848	H	ALA	X	185	23.778	45.950	24.617	0.00	0.00
ATOM	2849	CA	ALA	X	185	24.154	46.068	22.523	0.00	0.00
ATOM	2850	HA	ALA	X	185	23.272	46.148	21.888	0.00	0.00
ATOM	2851	CB	ALA	X	185	24.587	47.498	22.935	0.00	0.00
ATOM	2852	HB1	ALA	X	185	24.793	48.002	21.991	0.00	0.00
ATOM	2853	HB2	ALA	X	185	25.518	47.568	23.498	0.00	0.00
ATOM	2854	HB3	ALA	X	185	23.777	48.096	23.351	0.00	0.00
ATOM	2855	C	ALA	X	185	25.251	45.335	21.727	0.00	0.00
ATOM	2856	O	ALA	X	185	25.086	45.316	20.505	0.00	0.00
ATOM	2857	N	PHE	X	186	26.220	44.690	22.395	0.00	0.00
ATOM	2858	H	PHE	X	186	26.236	44.843	23.394	0.00	0.00
ATOM	2859	CA	PHE	X	186	27.263	43.906	21.889	0.00	0.00
ATOM	2860	HA	PHE	X	186	27.569	44.209	20.888	0.00	0.00
ATOM	2861	CB	PHE	X	186	28.533	44.169	22.810	0.00	0.00
ATOM	2862	HB2	PHE	X	186	28.417	43.575	23.717	0.00	0.00
ATOM	2863	HB3	PHE	X	186	29.473	43.714	22.500	0.00	0.00
ATOM	2864	CG	PHE	X	186	28.900	45.612	23.218	0.00	0.00
ATOM	2865	CD1	PHE	X	186	28.339	46.222	24.347	0.00	0.00
ATOM	2866	HD1	PHE	X	186	27.579	45.691	24.901	0.00	0.00
ATOM	2867	CE1	PHE	X	186	28.648	47.490	24.777	0.00	0.00
ATOM	2868	HE1	PHE	X	186	28.110	48.004	25.560	0.00	0.00
ATOM	2869	CZ	PHE	X	186	29.647	48.214	24.071	0.00	0.00
ATOM	2870	HZ	PHE	X	186	30.011	49.168	24.424	0.00	0.00
ATOM	2871	CE2	PHE	X	186	30.388	47.617	23.007	0.00	0.00
ATOM	2872	HE2	PHE	X	186	31.112	48.212	22.470	0.00	0.00
ATOM	2873	CD2	PHE	X	186	29.935	46.302	22.528	0.00	0.00
ATOM	2874	HD2	PHE	X	186	30.527	45.772	21.797	0.00	0.00
ATOM	2875	C	PHE	X	186	26.949	42.423	21.850	0.00	0.00
ATOM	2876	O	PHE	X	186	27.703	41.553	21.371	0.00	0.00
ATOM	2877	N	GLY	X	187	25.750	41.997	22.276	0.00	0.00
ATOM	2878	H	GLY	X	187	25.070	42.684	22.571	0.00	0.00
ATOM	2879	CA	GLY	X	187	25.157	40.666	22.135	0.00	0.00
ATOM	2880	HA2	GLY	X	187	24.169	40.829	21.703	0.00	0.00
ATOM	2881	HA3	GLY	X	187	25.879	40.162	21.492	0.00	0.00
ATOM	2882	C	GLY	X	187	24.983	39.838	23.441	0.00	0.00
ATOM	2883	O	GLY	X	187	24.737	38.655	23.391	0.00	0.00
ATOM	2884	N	GLY	X	188	25.121	40.440	24.639	0.00	0.00
ATOM	2885	H	GLY	X	188	25.361	41.417	24.555	0.00	0.00
ATOM	2886	CA	GLY	X	188	25.343	39.840	25.939	0.00	0.00
ATOM	2887	HA2	GLY	X	188	25.787	38.846	25.882	0.00	0.00
ATOM	2888	HA3	GLY	X	188	26.088	40.340	26.557	0.00	0.00
ATOM	2889	C	GLY	X	188	24.083	39.643	26.775	0.00	0.00
ATOM	2890	O	GLY	X	188	23.125	40.358	26.527	0.00	0.00
ATOM	2891	N	ASP	X	189	24.136	38.774	27.780	0.00	0.00
ATOM	2892	H	ASP	X	189	24.951	38.177	27.802	0.00	0.00
ATOM	2893	CA	ASP	X	189	23.055	38.330	28.625	0.00	0.00
ATOM	2894	HA	ASP	X	189	22.149	38.746	28.185	0.00	0.00
ATOM	2895	CB	ASP	X	189	22.898	36.828	28.707	0.00	0.00
ATOM	2896	HB2	ASP	X	189	22.920	36.535	27.657	0.00	0.00
ATOM	2897	HB3	ASP	X	189	23.750	36.315	29.153	0.00	0.00
ATOM	2898	CG	ASP	X	189	21.600	36.324	29.371	0.00	0.00
ATOM	2899	OD1	ASP	X	189	21.591	35.131	29.703	0.00	0.00

ATOM	2900	OD2	ASP	X	189	20.650	37.145	29.402	0.00	0.00
ATOM	2901	C	ASP	X	189	23.240	38.967	30.076	0.00	0.00
ATOM	2902	O	ASP	X	189	24.035	38.374	30.900	0.00	0.00
ATOM	2903	N	PRO	X	190	22.546	40.065	30.380	0.00	0.00
ATOM	2904	CD	PRO	X	190	21.577	40.760	29.576	0.00	0.00
ATOM	2905	HD2	PRO	X	190	20.880	40.048	29.135	0.00	0.00
ATOM	2906	HD3	PRO	X	190	22.162	41.352	28.871	0.00	0.00
ATOM	2907	CG	PRO	X	190	20.773	41.676	30.505	0.00	0.00
ATOM	2908	HG2	PRO	X	190	19.864	41.169	30.829	0.00	0.00
ATOM	2909	HG3	PRO	X	190	20.418	42.549	29.956	0.00	0.00
ATOM	2910	CB	PRO	X	190	21.694	41.975	31.651	0.00	0.00
ATOM	2911	HB2	PRO	X	190	21.209	42.311	32.568	0.00	0.00
ATOM	2912	HB3	PRO	X	190	22.360	42.817	31.460	0.00	0.00
ATOM	2913	CA	PRO	X	190	22.509	40.675	31.740	0.00	0.00
ATOM	2914	HA	PRO	X	190	23.523	40.948	32.036	0.00	0.00
ATOM	2915	C	PRO	X	190	21.942	39.776	32.837	0.00	0.00
ATOM	2916	O	PRO	X	190	22.365	40.010	34.004	0.00	0.00
ATOM	2917	N	THR	X	191	21.207	38.757	32.436	0.00	0.00
ATOM	2918	H	THR	X	191	20.872	38.720	31.484	0.00	0.00
ATOM	2919	CA	THR	X	191	20.672	37.590	33.136	0.00	0.00
ATOM	2920	HA	THR	X	191	20.304	38.050	34.054	0.00	0.00
ATOM	2921	CB	THR	X	191	19.511	36.912	32.337	0.00	0.00
ATOM	2922	HB	THR	X	191	19.964	36.248	31.601	0.00	0.00
ATOM	2923	CG2	THR	X	191	18.494	36.287	33.270	0.00	0.00
ATOM	2924	HG21	THR	X	191	18.990	36.020	34.203	0.00	0.00
ATOM	2925	HG22	THR	X	191	18.016	35.371	32.923	0.00	0.00
ATOM	2926	HG23	THR	X	191	17.801	37.111	33.442	0.00	0.00
ATOM	2927	OG1	THR	X	191	18.873	37.897	31.563	0.00	0.00
ATOM	2928	HG1	THR	X	191	18.776	37.525	30.683	0.00	0.00
ATOM	2929	C	THR	X	191	21.738	36.508	33.614	0.00	0.00
ATOM	2930	O	THR	X	191	21.371	35.591	34.344	0.00	0.00
ATOM	2931	N	SER	X	192	22.988	36.687	33.212	0.00	0.00
ATOM	2932	H	SER	X	192	23.220	37.550	32.742	0.00	0.00
ATOM	2933	CA	SER	X	192	24.065	35.641	33.225	0.00	0.00
ATOM	2934	HA	SER	X	192	23.885	34.919	34.021	0.00	0.00
ATOM	2935	CB	SER	X	192	24.035	34.816	31.862	0.00	0.00
ATOM	2936	HB2	SER	X	192	24.171	35.610	31.128	0.00	0.00
ATOM	2937	HB3	SER	X	192	24.911	34.168	31.864	0.00	0.00
ATOM	2938	OG	SER	X	192	22.768	34.092	31.770	0.00	0.00
ATOM	2939	HG	SER	X	192	22.360	34.537	31.024	0.00	0.00
ATOM	2940	C	SER	X	192	25.441	36.360	33.401	0.00	0.00
ATOM	2941	O	SER	X	192	26.343	36.331	32.512	0.00	0.00
ATOM	2942	N	VAL	X	193	25.708	37.119	34.467	0.00	0.00
ATOM	2943	H	VAL	X	193	25.029	37.016	35.207	0.00	0.00
ATOM	2944	CA	VAL	X	193	26.935	37.980	34.660	0.00	0.00
ATOM	2945	HA	VAL	X	193	27.442	38.099	33.703	0.00	0.00
ATOM	2946	CB	VAL	X	193	26.452	39.431	35.027	0.00	0.00
ATOM	2947	HB	VAL	X	193	25.741	39.352	35.849	0.00	0.00
ATOM	2948	CG1	VAL	X	193	27.637	40.264	35.575	0.00	0.00
ATOM	2949	HG11	VAL	X	193	27.913	39.947	36.581	0.00	0.00
ATOM	2950	HG12	VAL	X	193	28.445	40.052	34.876	0.00	0.00
ATOM	2951	HG13	VAL	X	193	27.269	41.286	35.663	0.00	0.00
ATOM	2952	CG2	VAL	X	193	25.773	40.139	33.846	0.00	0.00
ATOM	2953	HG21	VAL	X	193	26.560	40.297	33.108	0.00	0.00
ATOM	2954	HG22	VAL	X	193	25.303	41.090	34.094	0.00	0.00
ATOM	2955	HG23	VAL	X	193	24.991	39.489	33.454	0.00	0.00
ATOM	2956	C	VAL	X	193	27.840	37.309	35.718	0.00	0.00
ATOM	2957	O	VAL	X	193	27.288	37.042	36.835	0.00	0.00
ATOM	2958	N	THR	X	194	29.163	37.099	35.489	0.00	0.00
ATOM	2959	H	THR	X	194	29.600	37.459	34.652	0.00	0.00
ATOM	2960	CA	THR	X	194	30.154	36.581	36.475	0.00	0.00
ATOM	2961	HA	THR	X	194	29.598	36.493	37.409	0.00	0.00
ATOM	2962	CB	THR	X	194	30.624	35.158	36.065	0.00	0.00
ATOM	2963	HB	THR	X	194	31.078	35.120	35.075	0.00	0.00
ATOM	2964	CG2	THR	X	194	31.676	34.591	37.016	0.00	0.00
ATOM	2965	HG21	THR	X	194	32.588	35.185	36.960	0.00	0.00
ATOM	2966	HG22	THR	X	194	32.044	33.608	36.721	0.00	0.00

ATOM	2967	HG23	THR	X	194	31.322	34.401	38.029	0.00	0.00
ATOM	2968	OG1	THR	X	194	29.553	34.234	35.974	0.00	0.00
ATOM	2969	HG1	THR	X	194	29.185	34.322	35.092	0.00	0.00
ATOM	2970	C	THR	X	194	31.387	37.523	36.684	0.00	0.00
ATOM	2971	O	THR	X	194	32.101	37.825	35.747	0.00	0.00
ATOM	2972	N	LEU	X	195	31.677	37.901	37.944	0.00	0.00
ATOM	2973	H	LEU	X	195	31.092	37.473	38.647	0.00	0.00
ATOM	2974	CA	LEU	X	195	32.950	38.623	38.359	0.00	0.00
ATOM	2975	HA	LEU	X	195	33.160	39.347	37.572	0.00	0.00
ATOM	2976	CB	LEU	X	195	32.785	39.283	39.697	0.00	0.00
ATOM	2977	HB2	LEU	X	195	32.337	38.599	40.417	0.00	0.00
ATOM	2978	HB3	LEU	X	195	33.803	39.622	39.891	0.00	0.00
ATOM	2979	CG	LEU	X	195	31.840	40.501	39.796	0.00	0.00
ATOM	2980	HG	LEU	X	195	30.835	40.084	39.860	0.00	0.00
ATOM	2981	CD1	LEU	X	195	32.258	41.418	41.040	0.00	0.00
ATOM	2982	HD11	LEU	X	195	32.247	40.714	41.872	0.00	0.00
ATOM	2983	HD12	LEU	X	195	31.539	42.228	41.165	0.00	0.00
ATOM	2984	HD13	LEU	X	195	33.268	41.788	40.866	0.00	0.00
ATOM	2985	CD2	LEU	X	195	31.605	41.285	38.487	0.00	0.00
ATOM	2986	HD21	LEU	X	195	31.027	40.700	37.772	0.00	0.00
ATOM	2987	HD22	LEU	X	195	30.947	42.139	38.648	0.00	0.00
ATOM	2988	HD23	LEU	X	195	32.524	41.620	38.006	0.00	0.00
ATOM	2989	C	LEU	X	195	34.087	37.597	38.374	0.00	0.00
ATOM	2990	O	LEU	X	195	33.947	36.426	38.874	0.00	0.00
ATOM	2991	N	PHE	X	196	35.258	38.078	37.919	0.00	0.00
ATOM	2992	H	PHE	X	196	35.337	39.032	37.599	0.00	0.00
ATOM	2993	CA	PHE	X	196	36.475	37.261	37.670	0.00	0.00
ATOM	2994	HA	PHE	X	196	36.598	36.397	38.324	0.00	0.00
ATOM	2995	CB	PHE	X	196	36.512	37.013	36.140	0.00	0.00
ATOM	2996	HB2	PHE	X	196	35.548	36.614	35.824	0.00	0.00
ATOM	2997	HB3	PHE	X	196	36.571	38.018	35.722	0.00	0.00
ATOM	2998	CG	PHE	X	196	37.569	36.094	35.508	0.00	0.00
ATOM	2999	CD1	PHE	X	196	37.792	36.115	34.101	0.00	0.00
ATOM	3000	HD1	PHE	X	196	37.238	36.923	33.647	0.00	0.00
ATOM	3001	CE1	PHE	X	196	38.839	35.402	33.605	0.00	0.00
ATOM	3002	HE1	PHE	X	196	39.190	35.577	32.599	0.00	0.00
ATOM	3003	CZ	PHE	X	196	39.502	34.408	34.332	0.00	0.00
ATOM	3004	HZ	PHE	X	196	40.244	33.733	33.931	0.00	0.00
ATOM	3005	CE2	PHE	X	196	39.205	34.259	35.703	0.00	0.00
ATOM	3006	HE2	PHE	X	196	39.591	33.463	36.321	0.00	0.00
ATOM	3007	CD2	PHE	X	196	38.206	35.144	36.304	0.00	0.00
ATOM	3008	HD2	PHE	X	196	37.972	35.078	37.356	0.00	0.00
ATOM	3009	C	PHE	X	196	37.761	38.123	37.995	0.00	0.00
ATOM	3010	O	PHE	X	196	37.908	39.252	37.605	0.00	0.00
ATOM	3011	N	GLY	X	197	38.708	37.582	38.734	0.00	0.00
ATOM	3012	H	GLY	X	197	38.507	36.720	39.221	0.00	0.00
ATOM	3013	CA	GLY	X	197	39.932	38.289	38.960	0.00	0.00
ATOM	3014	HA2	GLY	X	197	40.356	38.521	37.983	0.00	0.00
ATOM	3015	HA3	GLY	X	197	39.780	39.251	39.449	0.00	0.00
ATOM	3016	C	GLY	X	197	41.036	37.584	39.731	0.00	0.00
ATOM	3017	O	GLY	X	197	40.833	36.521	40.370	0.00	0.00
ATOM	3018	N	GLU	X	198	42.237	38.161	39.638	0.00	0.00
ATOM	3019	H	GLU	X	198	42.291	39.023	39.113	0.00	0.00
ATOM	3020	CA	GLU	X	198	43.466	37.705	40.344	0.00	0.00
ATOM	3021	HA	GLU	X	198	43.214	36.832	40.946	0.00	0.00
ATOM	3022	CB	GLU	X	198	44.560	37.300	39.334	0.00	0.00
ATOM	3023	HB2	GLU	X	198	45.414	36.785	39.772	0.00	0.00
ATOM	3024	HB3	GLU	X	198	44.114	36.575	38.653	0.00	0.00
ATOM	3025	CG	GLU	X	198	45.046	38.435	38.430	0.00	0.00
ATOM	3026	HG2	GLU	X	198	45.291	37.995	37.463	0.00	0.00
ATOM	3027	HG3	GLU	X	198	44.248	39.178	38.426	0.00	0.00
ATOM	3028	CD	GLU	X	198	46.335	39.120	38.933	0.00	0.00
ATOM	3029	OE1	GLU	X	198	46.716	40.196	38.426	0.00	0.00
ATOM	3030	OE2	GLU	X	198	46.970	38.634	39.924	0.00	0.00
ATOM	3031	C	GLU	X	198	43.937	38.679	41.431	0.00	0.00
ATOM	3032	O	GLU	X	198	43.973	39.886	41.269	0.00	0.00
ATOM	3033	N	XA1	X	199	44.618	38.222	42.478	0.00	0.00

ATOM	3034	CA	XA1	X	199	45.315	38.941	43.534	0.00	0.00
ATOM	3035	C	XA1	X	199	44.489	40.165	44.014	0.00	0.00
ATOM	3036	O	XA1	X	199	43.413	40.014	44.527	0.00	0.00
ATOM	3037	CB	XA1	X	199	46.750	39.327	43.117	0.00	0.00
ATOM	3038	OG	XA1	X	199	47.419	39.881	44.306	0.00	0.00
ATOM	3039	P1	XA1	X	199	48.352	41.052	44.064	0.00	0.00
ATOM	3040	O1	XA1	X	199	47.678	42.162	43.298	0.00	0.00
ATOM	3041	O2	XA1	X	199	49.744	40.694	43.616	0.00	0.00
ATOM	3042	C1	XA1	X	199	48.504	41.714	45.713	0.00	0.00
ATOM	3043	H	XA1	X	199	44.700	37.216	42.507	0.00	0.00
ATOM	3044	HA	XA1	X	199	45.513	38.325	44.411	0.00	0.00
ATOM	3045	HB2	XA1	X	199	47.296	38.430	42.816	0.00	0.00
ATOM	3046	HB3	XA1	X	199	46.785	40.024	42.276	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.631	40.882	46.409	0.00	0.00
ATOM	3048	H12	XA1	X	199	49.338	42.414	45.793	0.00	0.00
ATOM	3049	H13	XA1	X	199	47.564	42.263	45.785	0.00	0.00
ATOM	3050	N	ALA	X	200	44.927	41.437	43.877	0.00	0.00
ATOM	3051	H	ALA	X	200	45.884	41.539	43.571	0.00	0.00
ATOM	3052	CA	ALA	X	200	44.138	42.635	44.242	0.00	0.00
ATOM	3053	HA	ALA	X	200	43.805	42.582	45.278	0.00	0.00
ATOM	3054	CB	ALA	X	200	44.992	43.958	43.916	0.00	0.00
ATOM	3055	HB1	ALA	X	200	44.369	44.850	43.997	0.00	0.00
ATOM	3056	HB2	ALA	X	200	45.412	43.962	42.911	0.00	0.00
ATOM	3057	HB3	ALA	X	200	45.848	43.944	44.591	0.00	0.00
ATOM	3058	C	ALA	X	200	42.799	42.747	43.420	0.00	0.00
ATOM	3059	O	ALA	X	200	41.831	43.349	43.885	0.00	0.00
ATOM	3060	N	GLY	X	201	42.762	42.026	42.352	0.00	0.00
ATOM	3061	H	GLY	X	201	43.614	41.600	42.017	0.00	0.00
ATOM	3062	CA	GLY	X	201	41.606	41.712	41.589	0.00	0.00
ATOM	3063	HA2	GLY	X	201	41.070	42.594	41.236	0.00	0.00
ATOM	3064	HA3	GLY	X	201	41.861	41.095	40.727	0.00	0.00
ATOM	3065	C	GLY	X	201	40.608	40.733	42.245	0.00	0.00
ATOM	3066	O	GLY	X	201	39.403	40.945	42.367	0.00	0.00
ATOM	3067	N	ALA	X	202	41.228	39.598	42.650	0.00	0.00
ATOM	3068	H	ALA	X	202	42.235	39.553	42.586	0.00	0.00
ATOM	3069	CA	ALA	X	202	40.459	38.564	43.404	0.00	0.00
ATOM	3070	HA	ALA	X	202	39.605	38.144	42.873	0.00	0.00
ATOM	3071	CB	ALA	X	202	41.403	37.443	43.648	0.00	0.00
ATOM	3072	HB1	ALA	X	202	41.814	37.055	42.716	0.00	0.00
ATOM	3073	HB2	ALA	X	202	40.878	36.656	44.190	0.00	0.00
ATOM	3074	HB3	ALA	X	202	42.196	37.894	44.244	0.00	0.00
ATOM	3075	C	ALA	X	202	39.939	39.179	44.696	0.00	0.00
ATOM	3076	O	ALA	X	202	38.745	38.978	45.013	0.00	0.00
ATOM	3077	N	ALA	X	203	40.695	40.022	45.391	0.00	0.00
ATOM	3078	H	ALA	X	203	41.634	40.200	45.063	0.00	0.00
ATOM	3079	CA	ALA	X	203	40.270	40.639	46.593	0.00	0.00
ATOM	3080	HA	ALA	X	203	39.667	39.908	47.131	0.00	0.00
ATOM	3081	CB	ALA	X	203	41.459	41.022	47.318	0.00	0.00
ATOM	3082	HB1	ALA	X	203	42.031	41.782	46.786	0.00	0.00
ATOM	3083	HB2	ALA	X	203	42.037	40.100	47.386	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.233	41.397	48.316	0.00	0.00
ATOM	3085	C	ALA	X	203	39.402	41.840	46.412	0.00	0.00
ATOM	3086	O	ALA	X	203	38.664	42.147	47.312	0.00	0.00
ATOM	3087	N	SER	X	204	39.397	42.392	45.216	0.00	0.00
ATOM	3088	H	SER	X	204	40.075	42.070	44.540	0.00	0.00
ATOM	3089	CA	SER	X	204	38.348	43.368	44.807	0.00	0.00
ATOM	3090	HA	SER	X	204	38.058	44.202	45.445	0.00	0.00
ATOM	3091	CB	SER	X	204	38.742	44.061	43.450	0.00	0.00
ATOM	3092	HB2	SER	X	204	39.233	43.394	42.740	0.00	0.00
ATOM	3093	HB3	SER	X	204	37.832	44.354	42.927	0.00	0.00
ATOM	3094	OG	SER	X	204	39.683	45.090	43.584	0.00	0.00
ATOM	3095	HG	SER	X	204	40.532	44.649	43.664	0.00	0.00
ATOM	3096	C	SER	X	204	37.011	42.665	44.510	0.00	0.00
ATOM	3097	O	SER	X	204	36.009	43.048	45.079	0.00	0.00
ATOM	3098	N	VAL	X	205	37.069	41.584	43.694	0.00	0.00
ATOM	3099	H	VAL	X	205	37.902	41.441	43.140	0.00	0.00
ATOM	3100	CA	VAL	X	205	35.985	40.661	43.529	0.00	0.00

ATOM	3101	HA	VAL	X	205	35.205	41.168	42.959	0.00	0.00
ATOM	3102	CB	VAL	X	205	36.316	39.458	42.621	0.00	0.00
ATOM	3103	HB	VAL	X	205	37.101	38.907	43.138	0.00	0.00
ATOM	3104	CG1	VAL	X	205	35.126	38.544	42.415	0.00	0.00
ATOM	3105	HG11	VAL	X	205	34.297	39.191	42.128	0.00	0.00
ATOM	3106	HG12	VAL	X	205	35.374	37.848	41.614	0.00	0.00
ATOM	3107	HG13	VAL	X	205	34.816	37.994	43.304	0.00	0.00
ATOM	3108	CG2	VAL	X	205	36.762	39.918	41.201	0.00	0.00
ATOM	3109	HG21	VAL	X	205	37.313	39.032	40.887	0.00	0.00
ATOM	3110	HG22	VAL	X	205	37.459	40.751	41.112	0.00	0.00
ATOM	3111	HG23	VAL	X	205	35.946	40.093	40.500	0.00	0.00
ATOM	3112	C	VAL	X	205	35.312	40.189	44.881	0.00	0.00
ATOM	3113	O	VAL	X	205	34.103	40.208	44.971	0.00	0.00
ATOM	3114	N	GLY	X	206	36.095	39.972	45.955	0.00	0.00
ATOM	3115	H	GLY	X	206	37.090	39.895	45.800	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.678	39.697	47.287	0.00	0.00
ATOM	3117	HA2	GLY	X	206	34.826	39.020	47.351	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.491	39.354	47.926	0.00	0.00
ATOM	3119	C	GLY	X	206	35.011	40.867	48.029	0.00	0.00
ATOM	3120	O	GLY	X	206	34.128	40.707	48.880	0.00	0.00
ATOM	3121	N	MET	X	207	35.519	42.117	47.803	0.00	0.00
ATOM	3122	H	MET	X	207	36.205	42.209	47.068	0.00	0.00
ATOM	3123	CA	MET	X	207	34.891	43.351	48.421	0.00	0.00
ATOM	3124	HA	MET	X	207	34.689	43.359	49.492	0.00	0.00
ATOM	3125	CB	MET	X	207	35.942	44.546	48.252	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.959	44.156	48.266	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.784	45.132	47.347	0.00	0.00
ATOM	3128	CG	MET	X	207	35.995	45.531	49.388	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.738	46.288	49.135	0.00	0.00
ATOM	3130	HG3	MET	X	207	35.057	46.042	49.605	0.00	0.00
ATOM	3131	SD	MET	X	207	36.565	44.831	50.913	0.00	0.00
ATOM	3132	CE	MET	X	207	38.371	44.873	50.630	0.00	0.00
ATOM	3133	HE1	MET	X	207	38.883	44.616	51.557	0.00	0.00
ATOM	3134	HE2	MET	X	207	38.716	44.184	49.860	0.00	0.00
ATOM	3135	HE3	MET	X	207	38.681	45.853	50.266	0.00	0.00
ATOM	3136	C	MET	X	207	33.505	43.616	47.751	0.00	0.00
ATOM	3137	O	MET	X	207	32.653	44.053	48.501	0.00	0.00
ATOM	3138	N	HIE	X	208	33.314	43.318	46.475	0.00	0.00
ATOM	3139	H	HIE	X	208	34.072	42.954	45.915	0.00	0.00
ATOM	3140	CA	HIE	X	208	32.048	43.550	45.866	0.00	0.00
ATOM	3141	HA	HIE	X	208	31.715	44.540	46.178	0.00	0.00
ATOM	3142	CB	HIE	X	208	32.239	43.507	44.402	0.00	0.00
ATOM	3143	HB2	HIE	X	208	32.541	42.482	44.185	0.00	0.00
ATOM	3144	HB3	HIE	X	208	31.285	43.521	43.875	0.00	0.00
ATOM	3145	CG	HIE	X	208	32.982	44.657	43.818	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.703	46.044	43.951	0.00	0.00
ATOM	3147	CE1	HIE	X	208	33.655	46.676	43.273	0.00	0.00
ATOM	3148	HE1	HIE	X	208	33.771	47.740	43.418	0.00	0.00
ATOM	3149	NE2	HIE	X	208	34.491	45.797	42.787	0.00	0.00
ATOM	3150	HE2	HIE	X	208	35.361	46.063	42.347	0.00	0.00
ATOM	3151	CD2	HIE	X	208	34.111	44.537	43.072	0.00	0.00
ATOM	3152	HD2	HIE	X	208	34.644	43.631	42.822	0.00	0.00
ATOM	3153	C	HIE	X	208	31.035	42.403	46.307	0.00	0.00
ATOM	3154	O	HIE	X	208	29.873	42.637	46.142	0.00	0.00
ATOM	3155	N	LEU	X	209	31.457	41.271	46.863	0.00	0.00
ATOM	3156	H	LEU	X	209	32.387	40.983	46.597	0.00	0.00
ATOM	3157	CA	LEU	X	209	30.663	40.240	47.503	0.00	0.00
ATOM	3158	HA	LEU	X	209	29.726	40.322	46.952	0.00	0.00
ATOM	3159	CB	LEU	X	209	31.504	38.945	47.369	0.00	0.00
ATOM	3160	HB2	LEU	X	209	31.991	38.945	46.394	0.00	0.00
ATOM	3161	HB3	LEU	X	209	32.325	38.786	48.068	0.00	0.00
ATOM	3162	CG	LEU	X	209	30.548	37.705	47.539	0.00	0.00
ATOM	3163	HG	LEU	X	209	29.990	37.878	48.459	0.00	0.00
ATOM	3164	CD1	LEU	X	209	29.595	37.480	46.424	0.00	0.00
ATOM	3165	HD11	LEU	X	209	29.227	36.465	46.571	0.00	0.00
ATOM	3166	HD12	LEU	X	209	30.143	37.554	45.484	0.00	0.00
ATOM	3167	HD13	LEU	X	209	28.885	38.306	46.393	0.00	0.00

ATOM	3168	CD2	LEU	X	209	31.390	36.449	47.711	0.00	0.00
ATOM	3169	HD21	LEU	X	209	30.837	35.522	47.861	0.00	0.00
ATOM	3170	HD22	LEU	X	209	31.977	36.221	46.821	0.00	0.00
ATOM	3171	HD23	LEU	X	209	32.095	36.566	48.534	0.00	0.00
ATOM	3172	C	LEU	X	209	30.322	40.524	48.971	0.00	0.00
ATOM	3173	O	LEU	X	209	29.278	40.111	49.443	0.00	0.00
ATOM	3174	N	LEU	X	210	31.232	41.327	49.631	0.00	0.00
ATOM	3175	H	LEU	X	210	32.071	41.613	49.146	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.109	41.674	51.074	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.656	40.878	51.665	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.467	41.945	51.622	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.106	41.073	51.480	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.923	42.731	51.020	0.00	0.00
ATOM	3181	CG	LEU	X	210	32.707	42.226	53.091	0.00	0.00
ATOM	3182	HG	LEU	X	210	32.300	43.183	53.420	0.00	0.00
ATOM	3183	CD1	LEU	X	210	31.870	41.257	54.003	0.00	0.00
ATOM	3184	HD11	LEU	X	210	32.175	41.380	55.043	0.00	0.00
ATOM	3185	HD12	LEU	X	210	32.113	40.219	53.775	0.00	0.00
ATOM	3186	HD13	LEU	X	210	30.803	41.444	53.885	0.00	0.00
ATOM	3187	CD2	LEU	X	210	34.184	42.048	53.422	0.00	0.00
ATOM	3188	HD21	LEU	X	210	34.346	41.956	54.496	0.00	0.00
ATOM	3189	HD22	LEU	X	210	34.562	41.054	53.184	0.00	0.00
ATOM	3190	HD23	LEU	X	210	34.940	42.659	52.929	0.00	0.00
ATOM	3191	C	LEU	X	210	30.205	42.914	51.216	0.00	0.00
ATOM	3192	O	LEU	X	210	29.640	43.139	52.247	0.00	0.00
ATOM	3193	N	SER	X	211	30.127	43.819	50.230	0.00	0.00
ATOM	3194	H	SER	X	211	30.565	43.527	49.369	0.00	0.00
ATOM	3195	CA	SER	X	211	29.342	45.097	50.168	0.00	0.00
ATOM	3196	HA	SER	X	211	29.198	45.442	51.192	0.00	0.00
ATOM	3197	CB	SER	X	211	30.248	46.124	49.553	0.00	0.00
ATOM	3198	HB2	SER	X	211	29.762	47.097	49.488	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.041	46.356	50.263	0.00	0.00
ATOM	3200	OG	SER	X	211	30.772	45.849	48.303	0.00	0.00
ATOM	3201	HG	SER	X	211	31.485	45.249	48.536	0.00	0.00
ATOM	3202	C	SER	X	211	27.944	45.062	49.473	0.00	0.00
ATOM	3203	O	SER	X	211	27.864	45.083	48.212	0.00	0.00
ATOM	3204	N	PRO	X	212	26.763	45.086	50.199	0.00	0.00
ATOM	3205	CD	PRO	X	212	26.726	45.238	51.690	0.00	0.00
ATOM	3206	HD2	PRO	X	212	27.009	46.247	51.988	0.00	0.00
ATOM	3207	HD3	PRO	X	212	27.462	44.557	52.117	0.00	0.00
ATOM	3208	CG	PRO	X	212	25.311	44.825	52.057	0.00	0.00
ATOM	3209	HG2	PRO	X	212	24.974	45.333	52.961	0.00	0.00
ATOM	3210	HG3	PRO	X	212	25.192	43.757	52.241	0.00	0.00
ATOM	3211	CB	PRO	X	212	24.434	45.162	50.806	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.125	46.206	50.753	0.00	0.00
ATOM	3213	HB3	PRO	X	212	23.556	44.550	50.599	0.00	0.00
ATOM	3214	CA	PRO	X	212	25.427	44.854	49.691	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.364	43.796	49.436	0.00	0.00
ATOM	3216	C	PRO	X	212	25.068	45.711	48.432	0.00	0.00
ATOM	3217	O	PRO	X	212	24.403	45.175	47.522	0.00	0.00
ATOM	3218	N	PRO	X	213	25.547	46.976	48.329	0.00	0.00
ATOM	3219	CD	PRO	X	213	26.263	47.848	49.288	0.00	0.00
ATOM	3220	HD2	PRO	X	213	27.338	47.769	49.123	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.009	47.527	50.298	0.00	0.00
ATOM	3222	CG	PRO	X	213	25.828	49.316	49.081	0.00	0.00
ATOM	3223	HG2	PRO	X	213	26.586	49.962	49.523	0.00	0.00
ATOM	3224	HG3	PRO	X	213	24.889	49.269	49.632	0.00	0.00
ATOM	3225	CB	PRO	X	213	25.717	49.317	47.529	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.678	49.553	47.074	0.00	0.00
ATOM	3227	HB3	PRO	X	213	24.920	49.933	47.113	0.00	0.00
ATOM	3228	CA	PRO	X	213	25.365	47.846	47.118	0.00	0.00
ATOM	3229	HA	PRO	X	213	24.297	47.844	46.899	0.00	0.00
ATOM	3230	C	PRO	X	213	26.167	47.482	45.875	0.00	0.00
ATOM	3231	O	PRO	X	213	25.844	47.993	44.804	0.00	0.00
ATOM	3232	N	SER	X	214	27.082	46.478	46.002	0.00	0.00
ATOM	3233	H	SER	X	214	27.300	46.000	46.865	0.00	0.00
ATOM	3234	CA	SER	X	214	27.814	45.776	44.949	0.00	0.00

ATOM	3235	HA	SER	X	214	27.575	46.259	44.001	0.00	0.00
ATOM	3236	CB	SER	X	214	29.335	45.656	45.253	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.466	45.267	46.263	0.00	0.00
ATOM	3238	HB3	SER	X	214	29.829	45.008	44.529	0.00	0.00
ATOM	3239	OG	SER	X	214	30.033	46.892	45.108	0.00	0.00
ATOM	3240	HG	SER	X	214	30.985	46.796	45.034	0.00	0.00
ATOM	3241	C	SER	X	214	27.259	44.411	44.740	0.00	0.00
ATOM	3242	O	SER	X	214	27.265	43.928	43.559	0.00	0.00
ATOM	3243	N	ARG	X	215	26.860	43.658	45.767	0.00	0.00
ATOM	3244	H	ARG	X	215	26.830	44.075	46.686	0.00	0.00
ATOM	3245	CA	ARG	X	215	26.430	42.231	45.638	0.00	0.00
ATOM	3246	HA	ARG	X	215	27.342	41.722	45.330	0.00	0.00
ATOM	3247	CB	ARG	X	215	25.940	41.780	46.990	0.00	0.00
ATOM	3248	HB2	ARG	X	215	26.561	42.123	47.818	0.00	0.00
ATOM	3249	HB3	ARG	X	215	24.960	42.236	47.130	0.00	0.00
ATOM	3250	CG	ARG	X	215	25.739	40.249	47.138	0.00	0.00
ATOM	3251	HG2	ARG	X	215	24.945	39.960	46.450	0.00	0.00
ATOM	3252	HG3	ARG	X	215	26.685	39.758	46.907	0.00	0.00
ATOM	3253	CD	ARG	X	215	25.264	39.871	48.572	0.00	0.00
ATOM	3254	HD2	ARG	X	215	25.148	38.789	48.636	0.00	0.00
ATOM	3255	HD3	ARG	X	215	26.028	40.093	49.317	0.00	0.00
ATOM	3256	NE	ARG	X	215	23.880	40.357	48.940	0.00	0.00
ATOM	3257	HE	ARG	X	215	23.121	40.343	48.275	0.00	0.00
ATOM	3258	CZ	ARG	X	215	23.602	40.587	50.225	0.00	0.00
ATOM	3259	NH1	ARG	X	215	24.437	40.649	51.216	0.00	0.00
ATOM	3260	HH11	ARG	X	215	25.413	40.699	50.961	0.00	0.00
ATOM	3261	HH12	ARG	X	215	24.118	40.760	52.168	0.00	0.00
ATOM	3262	NH2	ARG	X	215	22.337	40.822	50.526	0.00	0.00
ATOM	3263	HH21	ARG	X	215	21.579	40.723	49.865	0.00	0.00
ATOM	3264	HH22	ARG	X	215	22.117	41.168	51.449	0.00	0.00
ATOM	3265	C	ARG	X	215	25.371	41.991	44.571	0.00	0.00
ATOM	3266	O	ARG	X	215	25.433	40.937	43.964	0.00	0.00
ATOM	3267	N	GLY	X	216	24.465	42.923	44.290	0.00	0.00
ATOM	3268	H	GLY	X	216	24.525	43.763	44.847	0.00	0.00
ATOM	3269	CA	GLY	X	216	23.347	42.611	43.435	0.00	0.00
ATOM	3270	HA2	GLY	X	216	23.071	41.564	43.557	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.533	43.284	43.707	0.00	0.00
ATOM	3272	C	GLY	X	216	23.596	42.862	41.945	0.00	0.00
ATOM	3273	O	GLY	X	216	22.744	42.706	41.078	0.00	0.00
ATOM	3274	N	LEU	X	217	24.867	43.201	41.626	0.00	0.00
ATOM	3275	H	LEU	X	217	25.506	43.360	42.392	0.00	0.00
ATOM	3276	CA	LEU	X	217	25.249	43.590	40.255	0.00	0.00
ATOM	3277	HA	LEU	X	217	24.405	44.001	39.701	0.00	0.00
ATOM	3278	CB	LEU	X	217	26.213	44.791	40.276	0.00	0.00
ATOM	3279	HB2	LEU	X	217	27.033	44.485	40.925	0.00	0.00
ATOM	3280	HB3	LEU	X	217	26.635	45.023	39.299	0.00	0.00
ATOM	3281	CG	LEU	X	217	25.569	46.102	40.890	0.00	0.00
ATOM	3282	HG	LEU	X	217	25.063	45.865	41.826	0.00	0.00
ATOM	3283	CD1	LEU	X	217	26.644	47.103	41.171	0.00	0.00
ATOM	3284	HD11	LEU	X	217	27.375	46.658	41.847	0.00	0.00
ATOM	3285	HD12	LEU	X	217	26.333	48.040	41.633	0.00	0.00
ATOM	3286	HD13	LEU	X	217	27.167	47.365	40.251	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.569	46.645	39.844	0.00	0.00
ATOM	3288	HD21	LEU	X	217	24.066	47.540	40.210	0.00	0.00
ATOM	3289	HD22	LEU	X	217	25.174	46.929	38.983	0.00	0.00
ATOM	3290	HD23	LEU	X	217	23.903	45.852	39.503	0.00	0.00
ATOM	3291	C	LEU	X	217	25.764	42.433	39.401	0.00	0.00
ATOM	3292	O	LEU	X	217	26.088	42.528	38.194	0.00	0.00
ATOM	3293	N	PHE	X	218	25.737	41.237	39.952	0.00	0.00
ATOM	3294	H	PHE	X	218	25.353	41.163	40.884	0.00	0.00
ATOM	3295	CA	PHE	X	218	26.301	40.044	39.246	0.00	0.00
ATOM	3296	HA	PHE	X	218	25.830	39.966	38.266	0.00	0.00
ATOM	3297	CB	PHE	X	218	27.833	40.163	39.515	0.00	0.00
ATOM	3298	HB2	PHE	X	218	28.312	39.328	39.003	0.00	0.00
ATOM	3299	HB3	PHE	X	218	28.273	41.051	39.060	0.00	0.00
ATOM	3300	CG	PHE	X	218	28.336	40.159	40.880	0.00	0.00
ATOM	3301	CD1	PHE	X	218	28.386	41.265	41.715	0.00	0.00

ATOM	3302	HD1	PHE	X	218	27.759	42.115	41.488	0.00	0.00
ATOM	3303	CE1	PHE	X	218	28.987	41.164	42.983	0.00	0.00
ATOM	3304	HE1	PHE	X	218	28.941	41.974	43.697	0.00	0.00
ATOM	3305	CZ	PHE	X	218	29.610	39.993	43.384	0.00	0.00
ATOM	3306	HZ	PHE	X	218	30.088	39.995	44.353	0.00	0.00
ATOM	3307	CE2	PHE	X	218	29.581	38.826	42.546	0.00	0.00
ATOM	3308	HE2	PHE	X	218	29.958	37.885	42.917	0.00	0.00
ATOM	3309	CD2	PHE	X	218	28.924	38.908	41.325	0.00	0.00
ATOM	3310	HD2	PHE	X	218	28.843	38.034	40.695	0.00	0.00
ATOM	3311	C	PHE	X	218	25.809	38.785	39.883	0.00	0.00
ATOM	3312	O	PHE	X	218	25.339	38.863	40.981	0.00	0.00
ATOM	3313	N	HIE	X	219	26.042	37.616	39.235	0.00	0.00
ATOM	3314	H	HIE	X	219	26.259	37.707	38.253	0.00	0.00
ATOM	3315	CA	HIE	X	219	25.466	36.377	39.736	0.00	0.00
ATOM	3316	HA	HIE	X	219	24.649	36.611	40.418	0.00	0.00
ATOM	3317	CB	HIE	X	219	24.922	35.684	38.504	0.00	0.00
ATOM	3318	HB2	HIE	X	219	25.668	35.507	37.729	0.00	0.00
ATOM	3319	HB3	HIE	X	219	24.579	34.669	38.708	0.00	0.00
ATOM	3320	CG	HIE	X	219	23.816	36.410	37.809	0.00	0.00
ATOM	3321	ND1	HIE	X	219	23.886	37.269	36.711	0.00	0.00
ATOM	3322	CE1	HIE	X	219	22.619	37.755	36.552	0.00	0.00
ATOM	3323	HE1	HIE	X	219	22.265	38.384	35.749	0.00	0.00
ATOM	3324	NE2	HIE	X	219	21.811	37.185	37.401	0.00	0.00
ATOM	3325	HE2	HIE	X	219	20.812	37.325	37.339	0.00	0.00
ATOM	3326	CD2	HIE	X	219	22.471	36.259	38.192	0.00	0.00
ATOM	3327	HD2	HIE	X	219	22.124	35.831	39.121	0.00	0.00
ATOM	3328	C	HIE	X	219	26.471	35.552	40.544	0.00	0.00
ATOM	3329	O	HIE	X	219	26.056	34.936	41.562	0.00	0.00
ATOM	3330	N	ARG	X	220	27.738	35.519	40.115	0.00	0.00
ATOM	3331	H	ARG	X	220	27.962	36.071	39.299	0.00	0.00
ATOM	3332	CA	ARG	X	220	28.807	34.588	40.594	0.00	0.00
ATOM	3333	HA	ARG	X	220	28.587	34.161	41.573	0.00	0.00
ATOM	3334	CB	ARG	X	220	28.929	33.531	39.476	0.00	0.00
ATOM	3335	HB2	ARG	X	220	28.897	33.954	38.472	0.00	0.00
ATOM	3336	HB3	ARG	X	220	29.888	33.021	39.392	0.00	0.00
ATOM	3337	CG	ARG	X	220	27.819	32.479	39.570	0.00	0.00
ATOM	3338	HG2	ARG	X	220	27.990	31.783	40.391	0.00	0.00
ATOM	3339	HG3	ARG	X	220	26.908	33.001	39.865	0.00	0.00
ATOM	3340	CD	ARG	X	220	27.499	31.729	38.295	0.00	0.00
ATOM	3341	HD2	ARG	X	220	27.469	32.522	37.547	0.00	0.00
ATOM	3342	HD3	ARG	X	220	28.307	31.033	38.070	0.00	0.00
ATOM	3343	NE	ARG	X	220	26.290	30.912	38.415	0.00	0.00
ATOM	3344	HE	ARG	X	220	26.246	30.161	39.090	0.00	0.00
ATOM	3345	CZ	ARG	X	220	25.215	30.922	37.631	0.00	0.00
ATOM	3346	NH1	ARG	X	220	25.157	31.607	36.521	0.00	0.00
ATOM	3347	HH11	ARG	X	220	26.008	32.064	36.224	0.00	0.00
ATOM	3348	HH12	ARG	X	220	24.311	31.666	35.972	0.00	0.00
ATOM	3349	NH2	ARG	X	220	24.152	30.281	38.022	0.00	0.00
ATOM	3350	HH21	ARG	X	220	24.051	29.927	38.962	0.00	0.00
ATOM	3351	HH22	ARG	X	220	23.289	30.279	37.496	0.00	0.00
ATOM	3352	C	ARG	X	220	30.214	35.292	40.720	0.00	0.00
ATOM	3353	O	ARG	X	220	30.440	36.217	39.949	0.00	0.00
ATOM	3354	N	ALA	X	221	31.101	34.720	41.525	0.00	0.00
ATOM	3355	H	ALA	X	221	30.810	33.930	42.083	0.00	0.00
ATOM	3356	CA	ALA	X	221	32.419	35.235	41.734	0.00	0.00
ATOM	3357	HA	ALA	X	221	32.567	36.060	41.037	0.00	0.00
ATOM	3358	CB	ALA	X	221	32.480	35.735	43.242	0.00	0.00
ATOM	3359	HB1	ALA	X	221	32.535	34.896	43.936	0.00	0.00
ATOM	3360	HB2	ALA	X	221	31.586	36.272	43.561	0.00	0.00
ATOM	3361	HB3	ALA	X	221	33.301	36.445	43.350	0.00	0.00
ATOM	3362	C	ALA	X	221	33.495	34.203	41.486	0.00	0.00
ATOM	3363	O	ALA	X	221	33.402	33.082	41.888	0.00	0.00
ATOM	3364	N	VAL	X	222	34.559	34.630	40.845	0.00	0.00
ATOM	3365	H	VAL	X	222	34.646	35.495	40.331	0.00	0.00
ATOM	3366	CA	VAL	X	222	35.811	33.814	40.644	0.00	0.00
ATOM	3367	HA	VAL	X	222	35.758	32.906	41.246	0.00	0.00
ATOM	3368	CB	VAL	X	222	36.076	33.483	39.172	0.00	0.00

ATOM	3369	HB	VAL	X	222	36.031	34.472	38.716	0.00	0.00
ATOM	3370	CG1	VAL	X	222	37.456	32.910	38.937	0.00	0.00
ATOM	3371	HG11	VAL	X	222	38.226	33.680	38.896	0.00	0.00
ATOM	3372	HG12	VAL	X	222	37.617	32.181	39.731	0.00	0.00
ATOM	3373	HG13	VAL	X	222	37.633	32.402	37.989	0.00	0.00
ATOM	3374	CG2	VAL	X	222	34.923	32.620	38.554	0.00	0.00
ATOM	3375	HG21	VAL	X	222	34.009	33.132	38.855	0.00	0.00
ATOM	3376	HG22	VAL	X	222	34.977	31.670	39.085	0.00	0.00
ATOM	3377	HG23	VAL	X	222	34.945	32.457	37.477	0.00	0.00
ATOM	3378	C	VAL	X	222	37.030	34.721	41.190	0.00	0.00
ATOM	3379	O	VAL	X	222	37.263	35.774	40.680	0.00	0.00
ATOM	3380	N	LEU	X	223	37.716	34.218	42.213	0.00	0.00
ATOM	3381	H	LEU	X	223	37.528	33.312	42.617	0.00	0.00
ATOM	3382	CA	LEU	X	223	38.786	34.732	42.970	0.00	0.00
ATOM	3383	HA	LEU	X	223	39.057	35.707	42.565	0.00	0.00
ATOM	3384	CB	LEU	X	223	38.536	34.846	44.436	0.00	0.00
ATOM	3385	HB2	LEU	X	223	38.125	33.873	44.705	0.00	0.00
ATOM	3386	HB3	LEU	X	223	39.443	34.836	45.041	0.00	0.00
ATOM	3387	CG	LEU	X	223	37.489	35.871	45.012	0.00	0.00
ATOM	3388	HG	LEU	X	223	37.747	36.829	44.560	0.00	0.00
ATOM	3389	CD1	LEU	X	223	36.061	35.614	44.711	0.00	0.00
ATOM	3390	HD11	LEU	X	223	35.970	35.727	43.631	0.00	0.00
ATOM	3391	HD12	LEU	X	223	35.408	36.398	45.095	0.00	0.00
ATOM	3392	HD13	LEU	X	223	35.761	34.649	45.120	0.00	0.00
ATOM	3393	CD2	LEU	X	223	37.718	36.123	46.545	0.00	0.00
ATOM	3394	HD21	LEU	X	223	36.892	36.710	46.946	0.00	0.00
ATOM	3395	HD22	LEU	X	223	37.606	35.190	47.096	0.00	0.00
ATOM	3396	HD23	LEU	X	223	38.647	36.612	46.838	0.00	0.00
ATOM	3397	C	LEU	X	223	40.090	33.850	42.864	0.00	0.00
ATOM	3398	O	LEU	X	223	39.954	32.613	42.977	0.00	0.00
ATOM	3399	N	GLN	X	224	41.300	34.392	42.618	0.00	0.00
ATOM	3400	H	GLN	X	224	41.342	35.372	42.379	0.00	0.00
ATOM	3401	CA	GLN	X	224	42.456	33.533	42.354	0.00	0.00
ATOM	3402	HA	GLN	X	224	42.418	32.600	42.915	0.00	0.00
ATOM	3403	CB	GLN	X	224	42.593	33.278	40.848	0.00	0.00
ATOM	3404	HB2	GLN	X	224	42.550	34.243	40.343	0.00	0.00
ATOM	3405	HB3	GLN	X	224	43.604	32.931	40.635	0.00	0.00
ATOM	3406	CG	GLN	X	224	41.483	32.464	40.280	0.00	0.00
ATOM	3407	HG2	GLN	X	224	41.467	31.497	40.782	0.00	0.00
ATOM	3408	HG3	GLN	X	224	40.500	32.931	40.337	0.00	0.00
ATOM	3409	CD	GLN	X	224	41.748	32.170	38.791	0.00	0.00
ATOM	3410	OE1	GLN	X	224	40.872	32.235	37.918	0.00	0.00
ATOM	3411	NE2	GLN	X	224	42.882	31.670	38.457	0.00	0.00
ATOM	3412	HE21	GLN	X	224	42.912	31.371	37.492	0.00	0.00
ATOM	3413	HE22	GLN	X	224	43.629	31.533	39.123	0.00	0.00
ATOM	3414	C	GLN	X	224	43.669	34.286	42.921	0.00	0.00
ATOM	3415	O	GLN	X	224	43.991	35.404	42.434	0.00	0.00
ATOM	3416	N	SER	X	225	44.320	33.677	43.915	0.00	0.00
ATOM	3417	H	SER	X	225	44.138	32.698	44.087	0.00	0.00
ATOM	3418	CA	SER	X	225	45.577	34.251	44.492	0.00	0.00
ATOM	3419	HA	SER	X	225	45.915	33.539	45.245	0.00	0.00
ATOM	3420	CB	SER	X	225	46.662	34.431	43.400	0.00	0.00
ATOM	3421	HB2	SER	X	225	46.374	33.795	42.563	0.00	0.00
ATOM	3422	HB3	SER	X	225	46.628	35.420	42.942	0.00	0.00
ATOM	3423	OG	SER	X	225	47.934	34.133	43.779	0.00	0.00
ATOM	3424	HG	SER	X	225	48.010	33.305	44.258	0.00	0.00
ATOM	3425	C	SER	X	225	45.282	35.507	45.307	0.00	0.00
ATOM	3426	O	SER	X	225	46.154	36.256	45.712	0.00	0.00
ATOM	3427	N	GLY	X	226	44.004	35.862	45.476	0.00	0.00
ATOM	3428	H	GLY	X	226	43.245	35.387	45.008	0.00	0.00
ATOM	3429	CA	GLY	X	226	43.730	36.777	46.551	0.00	0.00
ATOM	3430	HA2	GLY	X	226	44.430	36.600	47.368	0.00	0.00
ATOM	3431	HA3	GLY	X	226	43.897	37.776	46.149	0.00	0.00
ATOM	3432	C	GLY	X	226	42.329	36.822	47.231	0.00	0.00
ATOM	3433	O	GLY	X	226	41.413	36.247	46.686	0.00	0.00
ATOM	3434	N	ALA	X	227	42.123	37.547	48.290	0.00	0.00
ATOM	3435	H	ALA	X	227	42.879	38.176	48.519	0.00	0.00

ATOM	3436	CA	ALA	X	227	40.936	37.492	49.138	0.00	0.00
ATOM	3437	HA	ALA	X	227	40.011	37.535	48.564	0.00	0.00
ATOM	3438	CB	ALA	X	227	41.006	36.140	49.855	0.00	0.00
ATOM	3439	HB1	ALA	X	227	41.943	36.145	50.411	0.00	0.00
ATOM	3440	HB2	ALA	X	227	40.925	35.278	49.192	0.00	0.00
ATOM	3441	HB3	ALA	X	227	40.241	36.022	50.623	0.00	0.00
ATOM	3442	C	ALA	X	227	40.826	38.657	50.104	0.00	0.00
ATOM	3443	O	ALA	X	227	41.911	39.091	50.515	0.00	0.00
ATOM	3444	N	PRO	X	228	39.599	39.176	50.380	0.00	0.00
ATOM	3445	CD	PRO	X	228	38.308	38.412	50.315	0.00	0.00
ATOM	3446	HD2	PRO	X	228	38.419	37.546	50.967	0.00	0.00
ATOM	3447	HD3	PRO	X	228	38.065	38.149	49.286	0.00	0.00
ATOM	3448	CG	PRO	X	228	37.178	39.305	50.849	0.00	0.00
ATOM	3449	HG2	PRO	X	228	36.691	38.957	51.760	0.00	0.00
ATOM	3450	HG3	PRO	X	228	36.421	39.482	50.085	0.00	0.00
ATOM	3451	CB	PRO	X	228	37.896	40.664	51.022	0.00	0.00
ATOM	3452	HB2	PRO	X	228	37.469	41.196	51.872	0.00	0.00
ATOM	3453	HB3	PRO	X	228	37.687	41.325	50.181	0.00	0.00
ATOM	3454	CA	PRO	X	228	39.413	40.404	51.208	0.00	0.00
ATOM	3455	HA	PRO	X	228	40.023	41.151	50.700	0.00	0.00
ATOM	3456	C	PRO	X	228	39.951	40.263	52.612	0.00	0.00
ATOM	3457	O	PRO	X	228	40.420	41.198	53.263	0.00	0.00
ATOM	3458	N	ASN	X	229	39.814	39.086	53.226	0.00	0.00
ATOM	3459	H	ASN	X	229	39.608	38.396	52.519	0.00	0.00
ATOM	3460	CA	ASN	X	229	40.111	38.707	54.588	0.00	0.00
ATOM	3461	HA	ASN	X	229	39.765	39.485	55.269	0.00	0.00
ATOM	3462	CB	ASN	X	229	39.222	37.518	54.900	0.00	0.00
ATOM	3463	HB2	ASN	X	229	39.381	37.198	55.930	0.00	0.00
ATOM	3464	HB3	ASN	X	229	38.165	37.754	54.774	0.00	0.00
ATOM	3465	CG	ASN	X	229	39.617	36.285	54.027	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.572	36.348	52.811	0.00	0.00
ATOM	3467	ND2	ASN	X	229	39.972	35.129	54.694	0.00	0.00
ATOM	3468	HD21	ASN	X	229	39.926	34.276	54.155	0.00	0.00
ATOM	3469	HD22	ASN	X	229	40.137	35.075	55.689	0.00	0.00
ATOM	3470	C	ASN	X	229	41.611	38.428	54.851	0.00	0.00
ATOM	3471	O	ASN	X	229	41.971	38.079	56.005	0.00	0.00
ATOM	3472	N	GLY	X	230	42.452	38.638	53.798	0.00	0.00
ATOM	3473	H	GLY	X	230	42.030	38.955	52.937	0.00	0.00
ATOM	3474	CA	GLY	X	230	43.904	38.487	53.952	0.00	0.00
ATOM	3475	HA2	GLY	X	230	44.188	37.729	54.682	0.00	0.00
ATOM	3476	HA3	GLY	X	230	44.393	38.121	53.049	0.00	0.00
ATOM	3477	C	GLY	X	230	44.581	39.846	54.337	0.00	0.00
ATOM	3478	O	GLY	X	230	44.032	40.869	54.017	0.00	0.00
ATOM	3479	N	PRO	X	231	45.699	39.726	55.053	0.00	0.00
ATOM	3480	CD	PRO	X	231	46.653	38.561	55.055	0.00	0.00
ATOM	3481	HD2	PRO	X	231	46.793	38.274	54.013	0.00	0.00
ATOM	3482	HD3	PRO	X	231	46.324	37.736	55.688	0.00	0.00
ATOM	3483	CG	PRO	X	231	47.926	39.094	55.726	0.00	0.00
ATOM	3484	HG2	PRO	X	231	48.530	39.614	54.982	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.504	38.316	56.224	0.00	0.00
ATOM	3486	CB	PRO	X	231	47.390	40.173	56.723	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.119	40.940	56.983	0.00	0.00
ATOM	3488	HB3	PRO	X	231	46.894	39.684	57.561	0.00	0.00
ATOM	3489	CA	PRO	X	231	46.265	40.869	55.858	0.00	0.00
ATOM	3490	HA	PRO	X	231	45.556	41.352	56.530	0.00	0.00
ATOM	3491	C	PRO	X	231	46.857	41.985	54.971	0.00	0.00
ATOM	3492	O	PRO	X	231	47.208	42.995	55.483	0.00	0.00
ATOM	3493	N	TRP	X	232	46.828	41.925	53.685	0.00	0.00
ATOM	3494	H	TRP	X	232	46.370	41.178	53.184	0.00	0.00
ATOM	3495	CA	TRP	X	232	47.287	43.065	52.749	0.00	0.00
ATOM	3496	HA	TRP	X	232	47.994	43.755	53.209	0.00	0.00
ATOM	3497	CB	TRP	X	232	48.081	42.387	51.584	0.00	0.00
ATOM	3498	HB2	TRP	X	232	48.280	43.077	50.764	0.00	0.00
ATOM	3499	HB3	TRP	X	232	49.027	42.099	52.043	0.00	0.00
ATOM	3500	CG	TRP	X	232	47.599	41.142	50.893	0.00	0.00
ATOM	3501	CD1	TRP	X	232	47.773	39.884	51.361	0.00	0.00
ATOM	3502	HD1	TRP	X	232	48.223	39.583	52.295	0.00	0.00

ATOM	3503	NE1	TRP	X	232	47.060	39.022	50.554	0.00	0.00
ATOM	3504	HE1	TRP	X	232	47.024	38.017	50.645	0.00	0.00
ATOM	3505	CE2	TRP	X	232	46.365	39.702	49.577	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	45.452	39.257	48.580	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	45.239	38.204	48.474	0.00	0.00
ATOM	3508	CH2	TRP	X	232	45.047	40.172	47.680	0.00	0.00
ATOM	3509	HH2	TRP	X	232	44.470	39.868	46.819	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	45.324	41.535	47.852	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	44.900	42.216	47.129	0.00	0.00
ATOM	3512	CE3	TRP	X	232	46.190	42.030	48.823	0.00	0.00
ATOM	3513	HE3	TRP	X	232	46.625	43.018	48.840	0.00	0.00
ATOM	3514	CD2	TRP	X	232	46.749	41.054	49.690	0.00	0.00
ATOM	3515	C	TRP	X	232	46.032	43.779	52.165	0.00	0.00
ATOM	3516	O	TRP	X	232	46.064	44.985	51.744	0.00	0.00
ATOM	3517	N	ALA	X	233	44.843	43.226	52.214	0.00	0.00
ATOM	3518	H	ALA	X	233	44.790	42.320	52.658	0.00	0.00
ATOM	3519	CA	ALA	X	233	43.685	43.714	51.456	0.00	0.00
ATOM	3520	HA	ALA	X	233	44.061	43.933	50.457	0.00	0.00
ATOM	3521	CB	ALA	X	233	42.742	42.492	51.245	0.00	0.00
ATOM	3522	HB1	ALA	X	233	42.417	42.218	52.248	0.00	0.00
ATOM	3523	HB2	ALA	X	233	43.316	41.733	50.713	0.00	0.00
ATOM	3524	HB3	ALA	X	233	41.887	42.717	50.608	0.00	0.00
ATOM	3525	C	ALA	X	233	43.016	44.935	52.106	0.00	0.00
ATOM	3526	O	ALA	X	233	42.270	45.566	51.426	0.00	0.00
ATOM	3527	N	THR	X	234	43.396	45.475	53.339	0.00	0.00
ATOM	3528	H	THR	X	234	44.260	45.180	53.772	0.00	0.00
ATOM	3529	CA	THR	X	234	42.842	46.641	53.964	0.00	0.00
ATOM	3530	HA	THR	X	234	42.589	47.297	53.131	0.00	0.00
ATOM	3531	CB	THR	X	234	41.530	46.438	54.853	0.00	0.00
ATOM	3532	HB	THR	X	234	41.320	47.431	55.252	0.00	0.00
ATOM	3533	CG2	THR	X	234	40.379	46.002	53.957	0.00	0.00
ATOM	3534	HG21	THR	X	234	39.429	46.145	54.472	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.472	45.006	53.525	0.00	0.00
ATOM	3536	HG23	THR	X	234	40.408	46.697	53.118	0.00	0.00
ATOM	3537	OG1	THR	X	234	41.719	45.528	55.884	0.00	0.00
ATOM	3538	HG1	THR	X	234	41.716	44.654	55.486	0.00	0.00
ATOM	3539	C	THR	X	234	43.847	47.352	54.779	0.00	0.00
ATOM	3540	O	THR	X	234	44.902	46.766	55.144	0.00	0.00
ATOM	3541	N	VAL	X	235	43.638	48.637	55.027	0.00	0.00
ATOM	3542	H	VAL	X	235	42.836	49.049	54.572	0.00	0.00
ATOM	3543	CA	VAL	X	235	44.426	49.348	55.968	0.00	0.00
ATOM	3544	HA	VAL	X	235	44.858	48.687	56.719	0.00	0.00
ATOM	3545	CB	VAL	X	235	45.685	49.974	55.311	0.00	0.00
ATOM	3546	HB	VAL	X	235	46.065	49.168	54.683	0.00	0.00
ATOM	3547	CG1	VAL	X	235	45.239	51.147	54.388	0.00	0.00
ATOM	3548	HG11	VAL	X	235	46.070	51.493	53.774	0.00	0.00
ATOM	3549	HG12	VAL	X	235	44.283	50.994	53.887	0.00	0.00
ATOM	3550	HG13	VAL	X	235	45.043	52.034	54.991	0.00	0.00
ATOM	3551	CG2	VAL	X	235	46.783	50.513	56.217	0.00	0.00
ATOM	3552	HG21	VAL	X	235	47.713	50.491	55.650	0.00	0.00
ATOM	3553	HG22	VAL	X	235	46.955	49.863	57.074	0.00	0.00
ATOM	3554	HG23	VAL	X	235	46.637	51.538	56.557	0.00	0.00
ATOM	3555	C	VAL	X	235	43.520	50.398	56.669	0.00	0.00
ATOM	3556	O	VAL	X	235	42.416	50.748	56.227	0.00	0.00
ATOM	3557	N	GLY	X	236	44.086	50.904	57.766	0.00	0.00
ATOM	3558	H	GLY	X	236	44.963	50.542	58.110	0.00	0.00
ATOM	3559	CA	GLY	X	236	43.446	51.931	58.689	0.00	0.00
ATOM	3560	HA2	GLY	X	236	42.386	51.694	58.790	0.00	0.00
ATOM	3561	HA3	GLY	X	236	43.880	51.828	59.683	0.00	0.00
ATOM	3562	C	GLY	X	236	43.581	53.373	58.259	0.00	0.00
ATOM	3563	O	GLY	X	236	44.559	53.810	57.720	0.00	0.00
ATOM	3564	N	MET	X	237	42.632	54.241	58.640	0.00	0.00
ATOM	3565	H	MET	X	237	42.056	53.869	59.382	0.00	0.00
ATOM	3566	CA	MET	X	237	42.521	55.646	58.360	0.00	0.00
ATOM	3567	HA	MET	X	237	42.453	55.841	57.290	0.00	0.00
ATOM	3568	CB	MET	X	237	41.192	56.143	58.938	0.00	0.00
ATOM	3569	HB2	MET	X	237	40.378	55.591	58.470	0.00	0.00

ATOM	3570	HB3	MET	X	237	41.168	55.931	60.007	0.00	0.00
ATOM	3571	CG	MET	X	237	40.847	57.628	58.884	0.00	0.00
ATOM	3572	HG2	MET	X	237	39.958	57.848	59.474	0.00	0.00
ATOM	3573	HG3	MET	X	237	41.698	58.108	59.368	0.00	0.00
ATOM	3574	SD	MET	X	237	40.608	58.090	57.122	0.00	0.00
ATOM	3575	CE	MET	X	237	38.866	57.686	56.855	0.00	0.00
ATOM	3576	HE1	MET	X	237	38.813	57.262	55.852	0.00	0.00
ATOM	3577	HE2	MET	X	237	38.625	56.920	57.591	0.00	0.00
ATOM	3578	HE3	MET	X	237	38.181	58.530	56.933	0.00	0.00
ATOM	3579	C	MET	X	237	43.714	56.450	58.804	0.00	0.00
ATOM	3580	O	MET	X	237	44.221	57.276	58.005	0.00	0.00
ATOM	3581	N	GLY	X	238	44.174	56.277	60.071	0.00	0.00
ATOM	3582	H	GLY	X	238	43.811	55.572	60.696	0.00	0.00
ATOM	3583	CA	GLY	X	238	45.314	57.030	60.576	0.00	0.00
ATOM	3584	HA2	GLY	X	238	45.124	58.100	60.495	0.00	0.00
ATOM	3585	HA3	GLY	X	238	45.348	56.709	61.617	0.00	0.00
ATOM	3586	C	GLY	X	238	46.624	56.713	59.856	0.00	0.00
ATOM	3587	O	GLY	X	238	47.428	57.630	59.598	0.00	0.00
ATOM	3588	N	GLU	X	239	46.770	55.492	59.359	0.00	0.00
ATOM	3589	H	GLU	X	239	46.067	54.767	59.367	0.00	0.00
ATOM	3590	CA	GLU	X	239	47.899	55.157	58.548	0.00	0.00
ATOM	3591	HA	GLU	X	239	48.808	55.458	59.069	0.00	0.00
ATOM	3592	CB	GLU	X	239	47.991	53.620	58.461	0.00	0.00
ATOM	3593	HB2	GLU	X	239	47.053	53.222	58.073	0.00	0.00
ATOM	3594	HB3	GLU	X	239	48.625	53.348	57.617	0.00	0.00
ATOM	3595	CG	GLU	X	239	48.436	52.808	59.724	0.00	0.00
ATOM	3596	HG2	GLU	X	239	47.687	52.966	60.500	0.00	0.00
ATOM	3597	HG3	GLU	X	239	48.387	51.742	59.503	0.00	0.00
ATOM	3598	CD	GLU	X	239	49.872	53.239	60.153	0.00	0.00
ATOM	3599	OE1	GLU	X	239	50.028	54.098	61.019	0.00	0.00
ATOM	3600	OE2	GLU	X	239	50.848	52.724	59.594	0.00	0.00
ATOM	3601	C	GLU	X	239	47.769	55.727	57.150	0.00	0.00
ATOM	3602	O	GLU	X	239	48.751	56.094	56.607	0.00	0.00
ATOM	3603	N	ALA	X	240	46.589	55.631	56.485	0.00	0.00
ATOM	3604	H	ALA	X	240	45.748	55.315	56.947	0.00	0.00
ATOM	3605	CA	ALA	X	240	46.375	56.337	55.206	0.00	0.00
ATOM	3606	HA	ALA	X	240	47.047	55.892	54.471	0.00	0.00
ATOM	3607	CB	ALA	X	240	44.982	56.134	54.751	0.00	0.00
ATOM	3608	HB1	ALA	X	240	44.855	56.657	53.803	0.00	0.00
ATOM	3609	HB2	ALA	X	240	44.181	56.445	55.421	0.00	0.00
ATOM	3610	HB3	ALA	X	240	44.871	55.067	54.558	0.00	0.00
ATOM	3611	C	ALA	X	240	46.768	57.837	55.402	0.00	0.00
ATOM	3612	O	ALA	X	240	47.644	58.271	54.593	0.00	0.00
ATOM	3613	N	ARG	X	241	46.138	58.591	56.292	0.00	0.00
ATOM	3614	H	ARG	X	241	45.209	58.315	56.576	0.00	0.00
ATOM	3615	CA	ARG	X	241	46.536	59.932	56.667	0.00	0.00
ATOM	3616	HA	ARG	X	241	46.202	60.554	55.837	0.00	0.00
ATOM	3617	CB	ARG	X	241	45.887	60.438	57.980	0.00	0.00
ATOM	3618	HB2	ARG	X	241	44.922	59.988	58.210	0.00	0.00
ATOM	3619	HB3	ARG	X	241	46.581	60.189	58.783	0.00	0.00
ATOM	3620	CG	ARG	X	241	45.911	61.958	57.967	0.00	0.00
ATOM	3621	HG2	ARG	X	241	46.836	62.436	57.645	0.00	0.00
ATOM	3622	HG3	ARG	X	241	45.082	62.305	57.350	0.00	0.00
ATOM	3623	CD	ARG	X	241	45.493	62.315	59.500	0.00	0.00
ATOM	3624	HD2	ARG	X	241	44.724	61.675	59.932	0.00	0.00
ATOM	3625	HD3	ARG	X	241	46.338	62.122	60.161	0.00	0.00
ATOM	3626	NE	ARG	X	241	44.923	63.668	59.572	0.00	0.00
ATOM	3627	HE	ARG	X	241	44.703	64.261	58.785	0.00	0.00
ATOM	3628	CZ	ARG	X	241	44.623	64.165	60.756	0.00	0.00
ATOM	3629	NH1	ARG	X	241	44.732	63.454	61.876	0.00	0.00
ATOM	3630	HH11	ARG	X	241	45.117	62.521	61.919	0.00	0.00
ATOM	3631	HH12	ARG	X	241	44.400	63.914	62.711	0.00	0.00
ATOM	3632	NH2	ARG	X	241	44.206	65.361	60.916	0.00	0.00
ATOM	3633	HH21	ARG	X	241	44.068	65.967	60.120	0.00	0.00
ATOM	3634	HH22	ARG	X	241	43.854	65.615	61.827	0.00	0.00
ATOM	3635	C	ARG	X	241	48.114	59.992	56.812	0.00	0.00
ATOM	3636	O	ARG	X	241	48.636	60.923	56.260	0.00	0.00

ATOM	3637	N	ARG	X	242	48.816	58.972	57.485	0.00	0.00
ATOM	3638	H	ARG	X	242	48.239	58.348	58.030	0.00	0.00
ATOM	3639	CA	ARG	X	242	50.292	59.067	57.687	0.00	0.00
ATOM	3640	HA	ARG	X	242	50.511	60.113	57.903	0.00	0.00
ATOM	3641	CB	ARG	X	242	50.610	58.121	58.861	0.00	0.00
ATOM	3642	HB2	ARG	X	242	50.121	58.625	59.695	0.00	0.00
ATOM	3643	HB3	ARG	X	242	50.308	57.085	58.709	0.00	0.00
ATOM	3644	CG	ARG	X	242	52.037	58.060	59.246	0.00	0.00
ATOM	3645	HG2	ARG	X	242	52.514	57.479	58.456	0.00	0.00
ATOM	3646	HG3	ARG	X	242	52.408	59.082	59.170	0.00	0.00
ATOM	3647	CD	ARG	X	242	52.227	57.512	60.670	0.00	0.00
ATOM	3648	HD2	ARG	X	242	53.167	57.889	61.074	0.00	0.00
ATOM	3649	HD3	ARG	X	242	51.395	57.935	61.233	0.00	0.00
ATOM	3650	NE	ARG	X	242	52.224	56.068	60.800	0.00	0.00
ATOM	3651	HE	ARG	X	242	51.343	55.612	60.993	0.00	0.00
ATOM	3652	CZ	ARG	X	242	53.301	55.256	60.590	0.00	0.00
ATOM	3653	NH1	ARG	X	242	54.528	55.674	60.279	0.00	0.00
ATOM	3654	HH11	ARG	X	242	54.779	56.643	60.144	0.00	0.00
ATOM	3655	HH12	ARG	X	242	55.256	55.010	60.060	0.00	0.00
ATOM	3656	NH2	ARG	X	242	53.220	53.976	60.670	0.00	0.00
ATOM	3657	HH21	ARG	X	242	52.283	53.602	60.615	0.00	0.00
ATOM	3658	HH22	ARG	X	242	53.985	53.396	60.358	0.00	0.00
ATOM	3659	C	ARG	X	242	51.033	58.727	56.485	0.00	0.00
ATOM	3660	O	ARG	X	242	52.061	59.399	56.211	0.00	0.00
ATOM	3661	N	ARG	X	243	50.623	57.912	55.514	0.00	0.00
ATOM	3662	H	ARG	X	243	49.919	57.268	55.845	0.00	0.00
ATOM	3663	CA	ARG	X	243	51.335	57.737	54.239	0.00	0.00
ATOM	3664	HA	ARG	X	243	52.387	57.768	54.522	0.00	0.00
ATOM	3665	CB	ARG	X	243	51.008	56.442	53.606	0.00	0.00
ATOM	3666	HB2	ARG	X	243	49.924	56.426	53.497	0.00	0.00
ATOM	3667	HB3	ARG	X	243	51.569	56.464	52.672	0.00	0.00
ATOM	3668	CG	ARG	X	243	51.555	55.283	54.462	0.00	0.00
ATOM	3669	HG2	ARG	X	243	52.600	55.551	54.618	0.00	0.00
ATOM	3670	HG3	ARG	X	243	51.048	55.216	55.425	0.00	0.00
ATOM	3671	CD	ARG	X	243	51.521	53.957	53.680	0.00	0.00
ATOM	3672	HD2	ARG	X	243	50.774	53.985	52.887	0.00	0.00
ATOM	3673	HD3	ARG	X	243	52.415	53.705	53.110	0.00	0.00
ATOM	3674	NE	ARG	X	243	51.365	52.884	54.637	0.00	0.00
ATOM	3675	HE	ARG	X	243	51.310	53.055	55.631	0.00	0.00
ATOM	3676	CZ	ARG	X	243	50.926	51.642	54.295	0.00	0.00
ATOM	3677	NH1	ARG	X	243	50.766	51.294	53.067	0.00	0.00
ATOM	3678	HH11	ARG	X	243	50.893	51.909	52.276	0.00	0.00
ATOM	3679	HH12	ARG	X	243	50.577	50.335	52.816	0.00	0.00
ATOM	3680	NH2	ARG	X	243	50.808	50.734	55.282	0.00	0.00
ATOM	3681	HH21	ARG	X	243	51.222	51.000	56.165	0.00	0.00
ATOM	3682	HH22	ARG	X	243	50.614	49.758	55.108	0.00	0.00
ATOM	3683	C	ARG	X	243	50.974	58.833	53.299	0.00	0.00
ATOM	3684	O	ARG	X	243	51.839	59.237	52.532	0.00	0.00
ATOM	3685	N	ALA	X	244	49.803	59.468	53.434	0.00	0.00
ATOM	3686	H	ALA	X	244	49.040	59.147	54.013	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.671	60.800	52.776	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.721	60.665	51.695	0.00	0.00
ATOM	3689	CB	ALA	X	244	48.233	61.389	53.003	0.00	0.00
ATOM	3690	HB1	ALA	X	244	47.371	60.840	52.624	0.00	0.00
ATOM	3691	HB2	ALA	X	244	48.234	62.415	52.635	0.00	0.00
ATOM	3692	HB3	ALA	X	244	48.041	61.538	54.065	0.00	0.00
ATOM	3693	C	ALA	X	244	50.726	61.821	53.257	0.00	0.00
ATOM	3694	O	ALA	X	244	51.427	62.440	52.436	0.00	0.00
ATOM	3695	N	THR	X	245	50.943	61.879	54.554	0.00	0.00
ATOM	3696	H	THR	X	245	50.397	61.330	55.203	0.00	0.00
ATOM	3697	CA	THR	X	245	52.053	62.708	55.056	0.00	0.00
ATOM	3698	HA	THR	X	245	51.863	63.699	54.644	0.00	0.00
ATOM	3699	CB	THR	X	245	52.004	62.725	56.616	0.00	0.00
ATOM	3700	HB	THR	X	245	52.165	61.748	57.072	0.00	0.00
ATOM	3701	CG2	THR	X	245	53.111	63.654	57.092	0.00	0.00
ATOM	3702	HG21	THR	X	245	54.145	63.460	56.805	0.00	0.00
ATOM	3703	HG22	THR	X	245	53.038	63.673	58.179	0.00	0.00

ATOM	3704	HG23	THR	X	245	52.903	64.669	56.753	0.00	0.00
ATOM	3705	OG1	THR	X	245	50.839	63.336	57.090	0.00	0.00
ATOM	3706	HG1	THR	X	245	50.269	62.652	57.449	0.00	0.00
ATOM	3707	C	THR	X	245	53.411	62.319	54.528	0.00	0.00
ATOM	3708	O	THR	X	245	54.031	63.199	53.993	0.00	0.00
ATOM	3709	N	GLN	X	246	53.743	61.051	54.546	0.00	0.00
ATOM	3710	H	GLN	X	246	53.154	60.414	55.063	0.00	0.00
ATOM	3711	CA	GLN	X	246	54.992	60.574	54.018	0.00	0.00
ATOM	3712	HA	GLN	X	246	55.803	60.864	54.686	0.00	0.00
ATOM	3713	CB	GLN	X	246	55.005	59.050	54.098	0.00	0.00
ATOM	3714	HB2	GLN	X	246	54.092	58.615	53.688	0.00	0.00
ATOM	3715	HB3	GLN	X	246	55.816	58.677	53.473	0.00	0.00
ATOM	3716	CG	GLN	X	246	55.293	58.655	55.564	0.00	0.00
ATOM	3717	HG2	GLN	X	246	56.362	58.823	55.694	0.00	0.00
ATOM	3718	HG3	GLN	X	246	54.735	59.199	56.326	0.00	0.00
ATOM	3719	CD	GLN	X	246	55.014	57.151	55.738	0.00	0.00
ATOM	3720	OE1	GLN	X	246	55.012	56.409	54.770	0.00	0.00
ATOM	3721	NE2	GLN	X	246	54.749	56.584	56.908	0.00	0.00
ATOM	3722	HE21	GLN	X	246	54.843	55.587	57.045	0.00	0.00
ATOM	3723	HE22	GLN	X	246	54.680	57.225	57.686	0.00	0.00
ATOM	3724	C	GLN	X	246	55.333	61.062	52.588	0.00	0.00
ATOM	3725	O	GLN	X	246	56.398	61.594	52.366	0.00	0.00
ATOM	3726	N	LEU	X	247	54.291	61.151	51.734	0.00	0.00
ATOM	3727	H	LEU	X	247	53.412	60.840	52.123	0.00	0.00
ATOM	3728	CA	LEU	X	247	54.281	61.664	50.367	0.00	0.00
ATOM	3729	HA	LEU	X	247	55.139	61.185	49.896	0.00	0.00
ATOM	3730	CB	LEU	X	247	52.977	61.200	49.603	0.00	0.00
ATOM	3731	HB2	LEU	X	247	52.524	60.340	50.097	0.00	0.00
ATOM	3732	HB3	LEU	X	247	52.249	62.008	49.674	0.00	0.00
ATOM	3733	CG	LEU	X	247	53.114	60.639	48.197	0.00	0.00
ATOM	3734	HG	LEU	X	247	53.837	59.828	48.288	0.00	0.00
ATOM	3735	CD1	LEU	X	247	51.836	60.042	47.613	0.00	0.00
ATOM	3736	HD11	LEU	X	247	51.028	60.768	47.532	0.00	0.00
ATOM	3737	HD12	LEU	X	247	51.502	59.176	48.184	0.00	0.00
ATOM	3738	HD13	LEU	X	247	52.123	59.711	46.615	0.00	0.00
ATOM	3739	CD2	LEU	X	247	53.577	61.710	47.193	0.00	0.00
ATOM	3740	HD21	LEU	X	247	54.564	62.047	47.511	0.00	0.00
ATOM	3741	HD22	LEU	X	247	53.540	61.325	46.174	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.862	62.532	47.201	0.00	0.00
ATOM	3743	C	LEU	X	247	54.469	63.215	50.405	0.00	0.00
ATOM	3744	O	LEU	X	247	55.348	63.783	49.816	0.00	0.00
ATOM	3745	N	ALA	X	248	53.698	63.857	51.259	0.00	0.00
ATOM	3746	H	ALA	X	248	53.111	63.380	51.928	0.00	0.00
ATOM	3747	CA	ALA	X	248	53.637	65.365	51.363	0.00	0.00
ATOM	3748	HA	ALA	X	248	53.527	65.901	50.420	0.00	0.00
ATOM	3749	CB	ALA	X	248	52.333	65.776	52.004	0.00	0.00
ATOM	3750	HB1	ALA	X	248	52.138	65.152	52.876	0.00	0.00
ATOM	3751	HB2	ALA	X	248	51.546	65.554	51.283	0.00	0.00
ATOM	3752	HB3	ALA	X	248	52.235	66.836	52.238	0.00	0.00
ATOM	3753	C	ALA	X	248	54.876	66.033	51.999	0.00	0.00
ATOM	3754	O	ALA	X	248	55.246	67.109	51.553	0.00	0.00
ATOM	3755	N	HIE	X	249	55.480	65.447	53.020	0.00	0.00
ATOM	3756	H	HIE	X	249	55.115	64.580	53.386	0.00	0.00
ATOM	3757	CA	HIE	X	249	56.891	65.806	53.509	0.00	0.00
ATOM	3758	HA	HIE	X	249	56.819	66.802	53.945	0.00	0.00
ATOM	3759	CB	HIE	X	249	57.305	64.788	54.541	0.00	0.00
ATOM	3760	HB2	HIE	X	249	56.554	64.713	55.327	0.00	0.00
ATOM	3761	HB3	HIE	X	249	57.226	63.819	54.049	0.00	0.00
ATOM	3762	CG	HIE	X	249	58.667	64.911	55.192	0.00	0.00
ATOM	3763	ND1	HIE	X	249	59.907	65.030	54.511	0.00	0.00
ATOM	3764	CE1	HIE	X	249	60.835	65.038	55.513	0.00	0.00
ATOM	3765	HE1	HIE	X	249	61.889	65.010	55.280	0.00	0.00
ATOM	3766	NE2	HIE	X	249	60.232	65.166	56.730	0.00	0.00
ATOM	3767	HE2	HIE	X	249	60.742	65.490	57.539	0.00	0.00
ATOM	3768	CD2	HIE	X	249	58.832	65.018	56.554	0.00	0.00
ATOM	3769	HD2	HIE	X	249	57.993	64.930	57.228	0.00	0.00
ATOM	3770	C	HIE	X	249	57.871	66.027	52.352	0.00	0.00

ATOM	3771	O	HIE	X	249	58.539	67.072	52.253	0.00	0.00
ATOM	3772	N	LEU	X	250	57.960	65.010	51.431	0.00	0.00
ATOM	3773	H	LEU	X	250	57.339	64.247	51.662	0.00	0.00
ATOM	3774	CA	LEU	X	250	59.121	64.955	50.483	0.00	0.00
ATOM	3775	HA	LEU	X	250	59.995	65.359	50.996	0.00	0.00
ATOM	3776	CB	LEU	X	250	59.295	63.454	50.205	0.00	0.00
ATOM	3777	HB2	LEU	X	250	59.358	62.986	51.187	0.00	0.00
ATOM	3778	HB3	LEU	X	250	58.370	63.073	49.771	0.00	0.00
ATOM	3779	CG	LEU	X	250	60.482	63.018	49.347	0.00	0.00
ATOM	3780	HG	LEU	X	250	60.624	63.709	48.515	0.00	0.00
ATOM	3781	CD1	LEU	X	250	61.726	63.171	50.256	0.00	0.00
ATOM	3782	HD11	LEU	X	250	62.064	64.207	50.206	0.00	0.00
ATOM	3783	HD12	LEU	X	250	62.552	62.565	49.884	0.00	0.00
ATOM	3784	HD13	LEU	X	250	61.424	63.091	51.300	0.00	0.00
ATOM	3785	CD2	LEU	X	250	60.415	61.552	48.847	0.00	0.00
ATOM	3786	HD21	LEU	X	250	61.405	61.202	48.552	0.00	0.00
ATOM	3787	HD22	LEU	X	250	60.220	60.850	49.657	0.00	0.00
ATOM	3788	HD23	LEU	X	250	59.566	61.509	48.164	0.00	0.00
ATOM	3789	C	LEU	X	250	58.811	65.779	49.232	0.00	0.00
ATOM	3790	O	LEU	X	250	59.752	66.381	48.759	0.00	0.00
ATOM	3791	N	VAL	X	251	57.564	65.899	48.785	0.00	0.00
ATOM	3792	H	VAL	X	251	56.834	65.352	49.217	0.00	0.00
ATOM	3793	CA	VAL	X	251	57.039	66.830	47.851	0.00	0.00
ATOM	3794	HA	VAL	X	251	57.559	66.803	46.893	0.00	0.00
ATOM	3795	CB	VAL	X	251	55.518	66.596	47.757	0.00	0.00
ATOM	3796	HB	VAL	X	251	55.117	66.646	48.769	0.00	0.00
ATOM	3797	CG1	VAL	X	251	54.778	67.730	47.007	0.00	0.00
ATOM	3798	HG11	VAL	X	251	55.308	67.854	46.062	0.00	0.00
ATOM	3799	HG12	VAL	X	251	53.719	67.520	46.859	0.00	0.00
ATOM	3800	HG13	VAL	X	251	54.842	68.674	47.548	0.00	0.00
ATOM	3801	CG2	VAL	X	251	55.199	65.311	46.971	0.00	0.00
ATOM	3802	HG21	VAL	X	251	54.138	65.063	47.011	0.00	0.00
ATOM	3803	HG22	VAL	X	251	55.711	64.469	47.438	0.00	0.00
ATOM	3804	HG23	VAL	X	251	55.531	65.397	45.937	0.00	0.00
ATOM	3805	C	VAL	X	251	57.217	68.271	48.397	0.00	0.00
ATOM	3806	O	VAL	X	251	57.622	69.143	47.658	0.00	0.00
ATOM	3807	N	GLY	X	252	56.852	68.476	49.671	0.00	0.00
ATOM	3808	H	GLY	X	252	56.619	67.756	50.340	0.00	0.00
ATOM	3809	CA	GLY	X	252	56.839	69.824	50.263	0.00	0.00
ATOM	3810	HA2	GLY	X	252	57.100	69.772	51.320	0.00	0.00
ATOM	3811	HA3	GLY	X	252	57.539	70.502	49.775	0.00	0.00
ATOM	3812	C	GLY	X	252	55.465	70.447	50.274	0.00	0.00
ATOM	3813	O	GLY	X	252	55.230	71.382	49.535	0.00	0.00
ATOM	3814	N	CYX	X	253	54.494	69.954	51.103	0.00	0.00
ATOM	3815	H	CYX	X	253	54.819	69.250	51.750	0.00	0.00
ATOM	3816	CA	CYX	X	253	53.030	70.308	51.190	0.00	0.00
ATOM	3817	HA	CYX	X	253	52.822	71.324	50.857	0.00	0.00
ATOM	3818	CB	CYX	X	253	52.327	69.267	50.312	0.00	0.00
ATOM	3819	HB2	CYX	X	253	52.911	68.349	50.379	0.00	0.00
ATOM	3820	HB3	CYX	X	253	51.322	69.124	50.710	0.00	0.00
ATOM	3821	SG	CYX	X	253	52.041	69.585	48.615	0.00	0.00
ATOM	3822	C	CYX	X	253	52.619	70.207	52.626	0.00	0.00
ATOM	3823	O	CYX	X	253	52.934	69.196	53.254	0.00	0.00
ATOM	3824	N	PRO	X	254	51.678	71.053	53.011	0.00	0.00
ATOM	3825	CD	PRO	X	254	51.079	70.912	54.345	0.00	0.00
ATOM	3826	HD2	PRO	X	254	51.839	71.248	55.050	0.00	0.00
ATOM	3827	HD3	PRO	X	254	50.689	69.911	54.528	0.00	0.00
ATOM	3828	CG	PRO	X	254	49.910	71.913	54.367	0.00	0.00
ATOM	3829	HG2	PRO	X	254	49.670	72.305	55.355	0.00	0.00
ATOM	3830	HG3	PRO	X	254	49.034	71.515	53.854	0.00	0.00
ATOM	3831	CB	PRO	X	254	50.568	73.071	53.521	0.00	0.00
ATOM	3832	HB2	PRO	X	254	51.242	73.582	54.208	0.00	0.00
ATOM	3833	HB3	PRO	X	254	49.815	73.778	53.172	0.00	0.00
ATOM	3834	CA	PRO	X	254	51.345	72.440	52.462	0.00	0.00
ATOM	3835	HA	PRO	X	254	50.721	72.286	51.582	0.00	0.00
ATOM	3836	C	PRO	X	254	52.548	73.314	52.196	0.00	0.00
ATOM	3837	O	PRO	X	254	53.583	73.006	52.850	0.00	0.00

ATOM	3838	N	PRO	X	255	52.567	74.264	51.257	0.00	0.00
ATOM	3839	CD	PRO	X	255	51.409	74.612	50.412	0.00	0.00
ATOM	3840	HD2	PRO	X	255	50.534	74.755	51.047	0.00	0.00
ATOM	3841	HD3	PRO	X	255	51.187	73.791	49.731	0.00	0.00
ATOM	3842	CG	PRO	X	255	51.720	75.917	49.726	0.00	0.00
ATOM	3843	HG2	PRO	X	255	51.545	76.728	50.433	0.00	0.00
ATOM	3844	HG3	PRO	X	255	51.160	76.056	48.801	0.00	0.00
ATOM	3845	CB	PRO	X	255	53.339	75.881	49.619	0.00	0.00
ATOM	3846	HB2	PRO	X	255	53.781	76.876	49.673	0.00	0.00
ATOM	3847	HB3	PRO	X	255	53.655	75.345	48.724	0.00	0.00
ATOM	3848	CA	PRO	X	255	53.789	74.949	50.768	0.00	0.00
ATOM	3849	HA	PRO	X	255	54.483	74.213	50.360	0.00	0.00
ATOM	3850	C	PRO	X	255	54.408	75.660	52.009	0.00	0.00
ATOM	3851	O	PRO	X	255	53.732	76.136	52.951	0.00	0.00
ATOM	3852	N	GLY	X	256	55.756	75.785	51.909	0.00	0.00
ATOM	3853	H	GLY	X	256	56.120	75.277	51.115	0.00	0.00
ATOM	3854	CA	GLY	X	256	56.664	76.335	52.907	0.00	0.00
ATOM	3855	HA2	GLY	X	256	57.619	76.590	52.447	0.00	0.00
ATOM	3856	HA3	GLY	X	256	56.178	77.181	53.393	0.00	0.00
ATOM	3857	C	GLY	X	256	57.003	75.341	54.030	0.00	0.00
ATOM	3858	O	GLY	X	256	57.603	75.739	55.034	0.00	0.00
ATOM	3859	N	GLY	X	257	56.488	74.081	53.921	0.00	0.00
ATOM	3860	H	GLY	X	257	55.974	73.874	53.077	0.00	0.00
ATOM	3861	CA	GLY	X	257	56.317	73.145	55.058	0.00	0.00
ATOM	3862	HA2	GLY	X	257	57.062	73.303	55.838	0.00	0.00
ATOM	3863	HA3	GLY	X	257	55.376	73.502	55.478	0.00	0.00
ATOM	3864	C	GLY	X	257	56.098	71.690	54.702	0.00	0.00
ATOM	3865	O	GLY	X	257	56.207	71.308	53.514	0.00	0.00
ATOM	3866	N	THR	X	258	55.840	70.924	55.689	0.00	0.00
ATOM	3867	H	THR	X	258	55.741	71.324	56.611	0.00	0.00
ATOM	3868	CA	THR	X	258	55.981	69.426	55.643	0.00	0.00
ATOM	3869	HA	THR	X	258	55.778	69.174	54.602	0.00	0.00
ATOM	3870	CB	THR	X	258	57.410	68.945	56.025	0.00	0.00
ATOM	3871	HB	THR	X	258	57.349	67.871	56.196	0.00	0.00
ATOM	3872	CG2	THR	X	258	58.504	69.053	54.939	0.00	0.00
ATOM	3873	HG21	THR	X	258	58.654	70.084	54.618	0.00	0.00
ATOM	3874	HG22	THR	X	258	58.104	68.583	54.040	0.00	0.00
ATOM	3875	HG23	THR	X	258	59.436	68.635	55.322	0.00	0.00
ATOM	3876	OG1	THR	X	258	57.996	69.567	57.170	0.00	0.00
ATOM	3877	HG1	THR	X	258	58.218	68.946	57.868	0.00	0.00
ATOM	3878	C	THR	X	258	54.948	68.804	56.550	0.00	0.00
ATOM	3879	O	THR	X	258	55.196	68.497	57.714	0.00	0.00
ATOM	3880	N	GLY	X	259	53.774	68.595	55.957	0.00	0.00
ATOM	3881	H	GLY	X	259	53.675	68.921	55.007	0.00	0.00
ATOM	3882	CA	GLY	X	259	52.619	68.105	56.679	0.00	0.00
ATOM	3883	HA2	GLY	X	259	51.946	67.629	55.966	0.00	0.00
ATOM	3884	HA3	GLY	X	259	52.868	67.354	57.429	0.00	0.00
ATOM	3885	C	GLY	X	259	51.876	69.252	57.305	0.00	0.00
ATOM	3886	O	GLY	X	259	52.456	70.323	57.450	0.00	0.00
ATOM	3887	N	GLY	X	260	50.569	69.014	57.566	0.00	0.00
ATOM	3888	H	GLY	X	260	50.184	68.096	57.398	0.00	0.00
ATOM	3889	CA	GLY	X	260	49.652	70.019	58.210	0.00	0.00
ATOM	3890	HA2	GLY	X	260	49.798	70.065	59.289	0.00	0.00
ATOM	3891	HA3	GLY	X	260	49.959	71.022	57.914	0.00	0.00
ATOM	3892	C	GLY	X	260	48.138	69.805	58.001	0.00	0.00
ATOM	3893	O	GLY	X	260	47.695	68.664	58.050	0.00	0.00
ATOM	3894	N	ASN	X	261	47.422	70.935	57.830	0.00	0.00
ATOM	3895	H	ASN	X	261	48.005	71.759	57.807	0.00	0.00
ATOM	3896	CA	ASN	X	261	45.990	70.995	57.724	0.00	0.00
ATOM	3897	HA	ASN	X	261	45.570	70.561	58.632	0.00	0.00
ATOM	3898	CB	ASN	X	261	45.498	72.501	57.758	0.00	0.00
ATOM	3899	HB2	ASN	X	261	45.901	73.010	58.634	0.00	0.00
ATOM	3900	HB3	ASN	X	261	45.715	72.926	56.778	0.00	0.00
ATOM	3901	CG	ASN	X	261	43.936	72.561	57.837	0.00	0.00
ATOM	3902	OD1	ASN	X	261	43.265	72.531	56.789	0.00	0.00
ATOM	3903	ND2	ASN	X	261	43.386	72.507	59.066	0.00	0.00
ATOM	3904	HD21	ASN	X	261	42.383	72.569	58.966	0.00	0.00

ATOM	3905	HD22	ASN	X	261	43.878	72.462	59.947	0.00	0.00
ATOM	3906	C	ASN	X	261	45.489	70.222	56.448	0.00	0.00
ATOM	3907	O	ASN	X	261	45.936	70.523	55.362	0.00	0.00
ATOM	3908	N	ASP	X	262	44.682	69.177	56.677	0.00	0.00
ATOM	3909	H	ASP	X	262	44.496	68.987	57.651	0.00	0.00
ATOM	3910	CA	ASP	X	262	44.325	68.121	55.691	0.00	0.00
ATOM	3911	HA	ASP	X	262	45.276	67.626	55.493	0.00	0.00
ATOM	3912	CB	ASP	X	262	43.410	67.018	56.325	0.00	0.00
ATOM	3913	HB2	ASP	X	262	42.396	67.341	56.563	0.00	0.00
ATOM	3914	HB3	ASP	X	262	43.312	66.136	55.692	0.00	0.00
ATOM	3915	CG	ASP	X	262	44.065	66.449	57.543	0.00	0.00
ATOM	3916	OD1	ASP	X	262	44.661	65.331	57.550	0.00	0.00
ATOM	3917	OD2	ASP	X	262	44.019	67.077	58.619	0.00	0.00
ATOM	3918	C	ASP	X	262	43.729	68.659	54.391	0.00	0.00
ATOM	3919	O	ASP	X	262	44.083	68.139	53.312	0.00	0.00
ATOM	3920	N	THR	X	263	42.874	69.642	54.460	0.00	0.00
ATOM	3921	H	THR	X	263	42.610	70.001	55.367	0.00	0.00
ATOM	3922	CA	THR	X	263	42.230	70.391	53.418	0.00	0.00
ATOM	3923	HA	THR	X	263	41.859	69.658	52.702	0.00	0.00
ATOM	3924	CB	THR	X	263	41.017	71.265	53.912	0.00	0.00
ATOM	3925	HB	THR	X	263	40.460	71.472	52.998	0.00	0.00
ATOM	3926	CG2	THR	X	263	40.132	70.481	54.796	0.00	0.00
ATOM	3927	HG21	THR	X	263	40.595	70.537	55.781	0.00	0.00
ATOM	3928	HG22	THR	X	263	40.156	69.405	54.621	0.00	0.00
ATOM	3929	HG23	THR	X	263	39.150	70.941	54.685	0.00	0.00
ATOM	3930	OG1	THR	X	263	41.368	72.464	54.570	0.00	0.00
ATOM	3931	HG1	THR	X	263	41.636	73.181	53.991	0.00	0.00
ATOM	3932	C	THR	X	263	43.087	71.264	52.622	0.00	0.00
ATOM	3933	O	THR	X	263	42.727	71.559	51.506	0.00	0.00
ATOM	3934	N	GLU	X	264	44.312	71.609	53.037	0.00	0.00
ATOM	3935	H	GLU	X	264	44.542	71.294	53.969	0.00	0.00
ATOM	3936	CA	GLU	X	264	45.459	72.293	52.466	0.00	0.00
ATOM	3937	HA	GLU	X	264	45.088	72.960	51.687	0.00	0.00
ATOM	3938	CB	GLU	X	264	46.278	73.125	53.464	0.00	0.00
ATOM	3939	HB2	GLU	X	264	46.587	72.529	54.323	0.00	0.00
ATOM	3940	HB3	GLU	X	264	47.225	73.429	53.019	0.00	0.00
ATOM	3941	CG	GLU	X	264	45.565	74.412	53.897	0.00	0.00
ATOM	3942	HG2	GLU	X	264	44.613	74.089	54.319	0.00	0.00
ATOM	3943	HG3	GLU	X	264	46.097	75.014	54.633	0.00	0.00
ATOM	3944	CD	GLU	X	264	45.264	75.463	52.845	0.00	0.00
ATOM	3945	OE1	GLU	X	264	44.073	75.915	52.673	0.00	0.00
ATOM	3946	OE2	GLU	X	264	46.099	75.767	52.035	0.00	0.00
ATOM	3947	C	GLU	X	264	46.385	71.316	51.837	0.00	0.00
ATOM	3948	O	GLU	X	264	46.828	71.475	50.696	0.00	0.00
ATOM	3949	N	LEU	X	265	46.716	70.300	52.613	0.00	0.00
ATOM	3950	H	LEU	X	265	46.236	70.239	53.500	0.00	0.00
ATOM	3951	CA	LEU	X	265	47.587	69.167	52.185	0.00	0.00
ATOM	3952	HA	LEU	X	265	48.569	69.551	51.908	0.00	0.00
ATOM	3953	CB	LEU	X	265	47.824	68.183	53.338	0.00	0.00
ATOM	3954	HB2	LEU	X	265	48.033	68.698	54.275	0.00	0.00
ATOM	3955	HB3	LEU	X	265	46.883	67.659	53.506	0.00	0.00
ATOM	3956	CG	LEU	X	265	48.945	67.099	53.131	0.00	0.00
ATOM	3957	HG	LEU	X	265	49.651	67.510	52.409	0.00	0.00
ATOM	3958	CD1	LEU	X	265	49.600	66.933	54.562	0.00	0.00
ATOM	3959	HD11	LEU	X	265	48.871	66.642	55.318	0.00	0.00
ATOM	3960	HD12	LEU	X	265	50.029	67.907	54.795	0.00	0.00
ATOM	3961	HD13	LEU	X	265	50.426	66.226	54.489	0.00	0.00
ATOM	3962	CD2	LEU	X	265	48.399	65.743	52.627	0.00	0.00
ATOM	3963	HD21	LEU	X	265	48.098	65.834	51.584	0.00	0.00
ATOM	3964	HD22	LEU	X	265	48.970	64.837	52.827	0.00	0.00
ATOM	3965	HD23	LEU	X	265	47.467	65.647	53.184	0.00	0.00
ATOM	3966	C	LEU	X	265	46.984	68.422	50.973	0.00	0.00
ATOM	3967	O	LEU	X	265	47.711	68.124	50.047	0.00	0.00
ATOM	3968	N	VAL	X	266	45.717	68.126	50.922	0.00	0.00
ATOM	3969	H	VAL	X	266	45.116	68.325	51.709	0.00	0.00
ATOM	3970	CA	VAL	X	266	45.065	67.721	49.718	0.00	0.00
ATOM	3971	HA	VAL	X	266	45.751	66.974	49.319	0.00	0.00

ATOM	3972	CB	VAL	X	266	43.724	67.066	50.116	0.00	0.00
ATOM	3973	HB	VAL	X	266	43.793	66.631	51.113	0.00	0.00
ATOM	3974	CG1	VAL	X	266	42.579	68.096	50.297	0.00	0.00
ATOM	3975	HG11	VAL	X	266	42.287	68.554	49.352	0.00	0.00
ATOM	3976	HG12	VAL	X	266	41.653	67.597	50.582	0.00	0.00
ATOM	3977	HG13	VAL	X	266	42.923	68.785	51.068	0.00	0.00
ATOM	3978	CG2	VAL	X	266	43.309	65.943	49.162	0.00	0.00
ATOM	3979	HG21	VAL	X	266	43.314	66.269	48.122	0.00	0.00
ATOM	3980	HG22	VAL	X	266	42.292	65.579	49.307	0.00	0.00
ATOM	3981	HG23	VAL	X	266	43.856	65.019	49.352	0.00	0.00
ATOM	3982	C	VAL	X	266	44.788	68.803	48.620	0.00	0.00
ATOM	3983	O	VAL	X	266	44.722	68.436	47.458	0.00	0.00
ATOM	3984	N	ALA	X	267	44.703	70.105	48.938	0.00	0.00
ATOM	3985	H	ALA	X	267	44.700	70.480	49.876	0.00	0.00
ATOM	3986	CA	ALA	X	267	44.805	71.132	47.916	0.00	0.00
ATOM	3987	HA	ALA	X	267	44.059	71.025	47.129	0.00	0.00
ATOM	3988	CB	ALA	X	267	44.307	72.408	48.492	0.00	0.00
ATOM	3989	HB1	ALA	X	267	44.451	73.187	47.743	0.00	0.00
ATOM	3990	HB2	ALA	X	267	44.917	72.616	49.371	0.00	0.00
ATOM	3991	HB3	ALA	X	267	43.240	72.365	48.708	0.00	0.00
ATOM	3992	C	ALA	X	267	46.191	71.147	47.192	0.00	0.00
ATOM	3993	O	ALA	X	267	46.330	71.162	45.980	0.00	0.00
ATOM	3994	N	CYX	X	268	47.240	70.875	47.993	0.00	0.00
ATOM	3995	H	CYX	X	268	47.081	70.787	48.987	0.00	0.00
ATOM	3996	CA	CYX	X	268	48.651	70.821	47.506	0.00	0.00
ATOM	3997	HA	CYX	X	268	48.791	71.717	46.901	0.00	0.00
ATOM	3998	CB	CYX	X	268	49.500	71.013	48.736	0.00	0.00
ATOM	3999	HB2	CYX	X	268	48.966	71.742	49.346	0.00	0.00
ATOM	4000	HB3	CYX	X	268	49.427	70.109	49.340	0.00	0.00
ATOM	4001	SG	CYX	X	268	51.194	71.494	48.504	0.00	0.00
ATOM	4002	C	CYX	X	268	48.795	69.531	46.682	0.00	0.00
ATOM	4003	O	CYX	X	268	49.075	69.530	45.483	0.00	0.00
ATOM	4004	N	LEU	X	269	48.432	68.379	47.274	0.00	0.00
ATOM	4005	H	LEU	X	269	48.347	68.385	48.280	0.00	0.00
ATOM	4006	CA	LEU	X	269	48.451	67.059	46.567	0.00	0.00
ATOM	4007	HA	LEU	X	269	49.435	66.928	46.117	0.00	0.00
ATOM	4008	CB	LEU	X	269	48.102	65.902	47.576	0.00	0.00
ATOM	4009	HB2	LEU	X	269	47.925	66.268	48.587	0.00	0.00
ATOM	4010	HB3	LEU	X	269	47.204	65.427	47.183	0.00	0.00
ATOM	4011	CG	LEU	X	269	49.288	64.845	47.667	0.00	0.00
ATOM	4012	HG	LEU	X	269	49.402	64.303	46.728	0.00	0.00
ATOM	4013	CD1	LEU	X	269	50.593	65.468	48.133	0.00	0.00
ATOM	4014	HD11	LEU	X	269	50.574	65.494	49.222	0.00	0.00
ATOM	4015	HD12	LEU	X	269	50.838	66.374	47.579	0.00	0.00
ATOM	4016	HD13	LEU	X	269	51.362	64.737	47.884	0.00	0.00
ATOM	4017	CD2	LEU	X	269	48.790	63.744	48.650	0.00	0.00
ATOM	4018	HD21	LEU	X	269	49.468	62.892	48.694	0.00	0.00
ATOM	4019	HD22	LEU	X	269	48.667	64.178	49.642	0.00	0.00
ATOM	4020	HD23	LEU	X	269	47.868	63.273	48.306	0.00	0.00
ATOM	4021	C	LEU	X	269	47.551	67.002	45.304	0.00	0.00
ATOM	4022	O	LEU	X	269	47.664	66.113	44.477	0.00	0.00
ATOM	4023	N	ARG	X	270	46.532	67.903	45.040	0.00	0.00
ATOM	4024	H	ARG	X	270	46.244	68.599	45.713	0.00	0.00
ATOM	4025	CA	ARG	X	270	45.659	68.042	43.869	0.00	0.00
ATOM	4026	HA	ARG	X	270	45.605	67.119	43.292	0.00	0.00
ATOM	4027	CB	ARG	X	270	44.191	68.465	44.273	0.00	0.00
ATOM	4028	HB2	ARG	X	270	44.132	69.210	45.067	0.00	0.00
ATOM	4029	HB3	ARG	X	270	43.715	68.867	43.379	0.00	0.00
ATOM	4030	CG	ARG	X	270	43.373	67.206	44.696	0.00	0.00
ATOM	4031	HG2	ARG	X	270	43.512	66.428	43.945	0.00	0.00
ATOM	4032	HG3	ARG	X	270	43.761	66.783	45.622	0.00	0.00
ATOM	4033	CD	ARG	X	270	41.836	67.427	44.739	0.00	0.00
ATOM	4034	HD2	ARG	X	270	41.585	68.219	44.033	0.00	0.00
ATOM	4035	HD3	ARG	X	270	41.282	66.552	44.400	0.00	0.00
ATOM	4036	NE	ARG	X	270	41.273	67.839	46.019	0.00	0.00
ATOM	4037	HE	ARG	X	270	41.527	68.750	46.372	0.00	0.00
ATOM	4038	CZ	ARG	X	270	40.487	67.132	46.833	0.00	0.00

ATOM	4039	NH1	ARG	X	270	40.309	65.811	46.754	0.00	0.00
ATOM	4040	HH11	ARG	X	270	40.576	65.215	45.983	0.00	0.00
ATOM	4041	HH12	ARG	X	270	39.808	65.446	47.552	0.00	0.00
ATOM	4042	NH2	ARG	X	270	39.839	67.733	47.818	0.00	0.00
ATOM	4043	HH21	ARG	X	270	39.998	68.713	48.006	0.00	0.00
ATOM	4044	HH22	ARG	X	270	39.344	67.193	48.513	0.00	0.00
ATOM	4045	C	ARG	X	270	46.271	69.013	42.827	0.00	0.00
ATOM	4046	O	ARG	X	270	46.227	68.773	41.643	0.00	0.00
ATOM	4047	N	THR	X	271	46.852	70.146	43.223	0.00	0.00
ATOM	4048	H	THR	X	271	46.791	70.381	44.203	0.00	0.00
ATOM	4049	CA	THR	X	271	47.618	71.135	42.489	0.00	0.00
ATOM	4050	HA	THR	X	271	47.074	71.696	41.729	0.00	0.00
ATOM	4051	CB	THR	X	271	48.171	72.168	43.471	0.00	0.00
ATOM	4052	HB	THR	X	271	48.793	71.752	44.264	0.00	0.00
ATOM	4053	CG2	THR	X	271	48.884	73.371	42.715	0.00	0.00
ATOM	4054	HG21	THR	X	271	48.122	73.926	42.167	0.00	0.00
ATOM	4055	HG22	THR	X	271	49.588	73.036	41.954	0.00	0.00
ATOM	4056	HG23	THR	X	271	49.336	73.971	43.505	0.00	0.00
ATOM	4057	OG1	THR	X	271	47.015	72.753	44.049	0.00	0.00
ATOM	4058	HG1	THR	X	271	46.611	72.159	44.687	0.00	0.00
ATOM	4059	C	THR	X	271	48.829	70.453	41.823	0.00	0.00
ATOM	4060	O	THR	X	271	48.829	70.479	40.611	0.00	0.00
ATOM	4061	N	ARG	X	272	49.739	69.822	42.587	0.00	0.00
ATOM	4062	H	ARG	X	272	49.600	69.825	43.588	0.00	0.00
ATOM	4063	CA	ARG	X	272	50.992	69.293	42.115	0.00	0.00
ATOM	4064	HA	ARG	X	272	51.632	70.104	41.768	0.00	0.00
ATOM	4065	CB	ARG	X	272	51.816	68.672	43.360	0.00	0.00
ATOM	4066	HB2	ARG	X	272	51.130	68.152	44.028	0.00	0.00
ATOM	4067	HB3	ARG	X	272	52.487	67.922	42.942	0.00	0.00
ATOM	4068	CG	ARG	X	272	52.397	69.698	44.275	0.00	0.00
ATOM	4069	HG2	ARG	X	272	51.488	70.138	44.686	0.00	0.00
ATOM	4070	HG3	ARG	X	272	52.923	69.254	45.120	0.00	0.00
ATOM	4071	CD	ARG	X	272	53.380	70.709	43.681	0.00	0.00
ATOM	4072	HD2	ARG	X	272	54.286	70.191	43.366	0.00	0.00
ATOM	4073	HD3	ARG	X	272	52.949	71.260	42.845	0.00	0.00
ATOM	4074	NE	ARG	X	272	53.655	71.700	44.737	0.00	0.00
ATOM	4075	HE	ARG	X	272	52.905	72.331	44.982	0.00	0.00
ATOM	4076	CZ	ARG	X	272	54.733	71.686	45.435	0.00	0.00
ATOM	4077	NH1	ARG	X	272	55.708	70.909	45.162	0.00	0.00
ATOM	4078	HH11	ARG	X	272	55.543	70.103	44.577	0.00	0.00
ATOM	4079	HH12	ARG	X	272	56.508	70.797	45.769	0.00	0.00
ATOM	4080	NH2	ARG	X	272	54.920	72.516	46.429	0.00	0.00
ATOM	4081	HH21	ARG	X	272	54.213	73.233	46.506	0.00	0.00
ATOM	4082	HH22	ARG	X	272	55.665	72.315	47.080	0.00	0.00
ATOM	4083	C	ARG	X	272	50.642	68.175	40.989	0.00	0.00
ATOM	4084	O	ARG	X	272	49.691	67.440	41.230	0.00	0.00
ATOM	4085	N	PRO	X	273	51.400	68.112	39.873	0.00	0.00
ATOM	4086	CD	PRO	X	273	52.316	69.196	39.468	0.00	0.00
ATOM	4087	HD2	PRO	X	273	53.321	69.016	39.850	0.00	0.00
ATOM	4088	HD3	PRO	X	273	51.892	70.172	39.704	0.00	0.00
ATOM	4089	CG	PRO	X	273	52.440	69.112	37.988	0.00	0.00
ATOM	4090	HG2	PRO	X	273	53.460	69.179	37.610	0.00	0.00
ATOM	4091	HG3	PRO	X	273	51.769	69.861	37.568	0.00	0.00
ATOM	4092	CB	PRO	X	273	51.870	67.791	37.549	0.00	0.00
ATOM	4093	HB2	PRO	X	273	52.660	67.106	37.241	0.00	0.00
ATOM	4094	HB3	PRO	X	273	51.175	67.821	36.709	0.00	0.00
ATOM	4095	CA	PRO	X	273	50.968	67.323	38.761	0.00	0.00
ATOM	4096	HA	PRO	X	273	49.929	67.599	38.582	0.00	0.00
ATOM	4097	C	PRO	X	273	51.197	65.846	39.083	0.00	0.00
ATOM	4098	O	PRO	X	273	52.235	65.537	39.570	0.00	0.00
ATOM	4099	N	ALA	X	274	50.247	64.959	38.702	0.00	0.00
ATOM	4100	H	ALA	X	274	49.487	65.290	38.124	0.00	0.00
ATOM	4101	CA	ALA	X	274	50.221	63.538	39.120	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.093	63.475	40.201	0.00	0.00
ATOM	4103	CB	ALA	X	274	49.020	62.944	38.445	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.067	61.855	38.447	0.00	0.00
ATOM	4105	HB2	ALA	X	274	48.916	63.257	37.407	0.00	0.00

ATOM	4106	HB3	ALA	X	274	48.096	63.204	38.962	0.00	0.00
ATOM	4107	C	ALA	X	274	51.510	62.810	38.722	0.00	0.00
ATOM	4108	O	ALA	X	274	52.068	62.008	39.420	0.00	0.00
ATOM	4109	N	GLN	X	275	51.964	63.164	37.504	0.00	0.00
ATOM	4110	H	GLN	X	275	51.343	63.756	36.972	0.00	0.00
ATOM	4111	CA	GLN	X	275	53.294	62.799	36.888	0.00	0.00
ATOM	4112	HA	GLN	X	275	53.228	61.777	36.517	0.00	0.00
ATOM	4113	CB	GLN	X	275	53.503	63.751	35.654	0.00	0.00
ATOM	4114	HB2	GLN	X	275	52.539	63.816	35.149	0.00	0.00
ATOM	4115	HB3	GLN	X	275	53.677	64.769	36.001	0.00	0.00
ATOM	4116	CG	GLN	X	275	54.544	63.288	34.600	0.00	0.00
ATOM	4117	HG2	GLN	X	275	55.543	63.165	35.017	0.00	0.00
ATOM	4118	HG3	GLN	X	275	54.231	62.305	34.247	0.00	0.00
ATOM	4119	CD	GLN	X	275	54.723	64.174	33.347	0.00	0.00
ATOM	4120	OE1	GLN	X	275	54.649	65.362	33.413	0.00	0.00
ATOM	4121	NE2	GLN	X	275	54.969	63.536	32.209	0.00	0.00
ATOM	4122	HE21	GLN	X	275	55.041	64.097	31.372	0.00	0.00
ATOM	4123	HE22	GLN	X	275	54.920	62.546	32.014	0.00	0.00
ATOM	4124	C	GLN	X	275	54.490	62.916	37.833	0.00	0.00
ATOM	4125	O	GLN	X	275	55.475	62.237	37.677	0.00	0.00
ATOM	4126	N	VAL	X	276	54.407	63.888	38.746	0.00	0.00
ATOM	4127	H	VAL	X	276	53.510	64.351	38.778	0.00	0.00
ATOM	4128	CA	VAL	X	276	55.454	64.159	39.758	0.00	0.00
ATOM	4129	HA	VAL	X	276	56.465	63.873	39.470	0.00	0.00
ATOM	4130	CB	VAL	X	276	55.521	65.761	40.014	0.00	0.00
ATOM	4131	HB	VAL	X	276	54.593	66.084	40.485	0.00	0.00
ATOM	4132	CG1	VAL	X	276	56.682	66.038	41.020	0.00	0.00
ATOM	4133	HG11	VAL	X	276	56.845	67.114	41.083	0.00	0.00
ATOM	4134	HG12	VAL	X	276	56.430	65.771	42.046	0.00	0.00
ATOM	4135	HG13	VAL	X	276	57.580	65.523	40.681	0.00	0.00
ATOM	4136	CG2	VAL	X	276	55.625	66.618	38.700	0.00	0.00
ATOM	4137	HG21	VAL	X	276	54.852	66.369	37.973	0.00	0.00
ATOM	4138	HG22	VAL	X	276	56.559	66.273	38.255	0.00	0.00
ATOM	4139	HG23	VAL	X	276	55.621	67.700	38.829	0.00	0.00
ATOM	4140	C	VAL	X	276	55.050	63.389	41.054	0.00	0.00
ATOM	4141	O	VAL	X	276	55.948	62.738	41.553	0.00	0.00
ATOM	4142	N	LEU	X	277	53.744	63.402	41.410	0.00	0.00
ATOM	4143	H	LEU	X	277	53.058	63.973	40.937	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.317	62.721	42.560	0.00	0.00
ATOM	4145	HA	LEU	X	277	53.852	63.161	43.401	0.00	0.00
ATOM	4146	CB	LEU	X	277	51.811	62.903	42.775	0.00	0.00
ATOM	4147	HB2	LEU	X	277	51.298	62.434	41.935	0.00	0.00
ATOM	4148	HB3	LEU	X	277	51.577	62.425	43.726	0.00	0.00
ATOM	4149	CG	LEU	X	277	51.501	64.402	43.060	0.00	0.00
ATOM	4150	HG	LEU	X	277	51.825	65.141	42.328	0.00	0.00
ATOM	4151	CD1	LEU	X	277	50.063	64.566	43.044	0.00	0.00
ATOM	4152	HD11	LEU	X	277	49.639	64.137	42.136	0.00	0.00
ATOM	4153	HD12	LEU	X	277	49.769	65.614	43.103	0.00	0.00
ATOM	4154	HD13	LEU	X	277	49.652	63.948	43.842	0.00	0.00
ATOM	4155	CD2	LEU	X	277	52.022	64.824	44.428	0.00	0.00
ATOM	4156	HD21	LEU	X	277	53.109	64.819	44.347	0.00	0.00
ATOM	4157	HD22	LEU	X	277	51.805	65.786	44.893	0.00	0.00
ATOM	4158	HD23	LEU	X	277	51.880	64.053	45.186	0.00	0.00
ATOM	4159	C	LEU	X	277	53.694	61.239	42.517	0.00	0.00
ATOM	4160	O	LEU	X	277	54.108	60.743	43.563	0.00	0.00
ATOM	4161	N	VAL	X	278	53.524	60.543	41.370	0.00	0.00
ATOM	4162	H	VAL	X	278	52.965	60.941	40.629	0.00	0.00
ATOM	4163	CA	VAL	X	278	53.712	59.106	41.395	0.00	0.00
ATOM	4164	HA	VAL	X	278	53.155	58.796	42.279	0.00	0.00
ATOM	4165	CB	VAL	X	278	53.011	58.360	40.147	0.00	0.00
ATOM	4166	HB	VAL	X	278	53.196	57.286	40.129	0.00	0.00
ATOM	4167	CG1	VAL	X	278	51.529	58.542	40.289	0.00	0.00
ATOM	4168	HG11	VAL	X	278	51.050	57.857	39.590	0.00	0.00
ATOM	4169	HG12	VAL	X	278	51.157	58.257	41.274	0.00	0.00
ATOM	4170	HG13	VAL	X	278	51.326	59.560	39.957	0.00	0.00
ATOM	4171	CG2	VAL	X	278	53.600	59.011	38.851	0.00	0.00
ATOM	4172	HG21	VAL	X	278	54.688	58.938	38.868	0.00	0.00

ATOM	4173	HG22	VAL	X	278	53.445	60.089	38.808	0.00	0.00
ATOM	4174	HG23	VAL	X	278	53.289	58.514	37.932	0.00	0.00
ATOM	4175	C	VAL	X	278	55.203	58.598	41.604	0.00	0.00
ATOM	4176	O	VAL	X	278	55.378	57.458	41.976	0.00	0.00
ATOM	4177	N	ASN	X	279	56.179	59.474	41.299	0.00	0.00
ATOM	4178	H	ASN	X	279	55.865	60.251	40.735	0.00	0.00
ATOM	4179	CA	ASN	X	279	57.649	59.330	41.688	0.00	0.00
ATOM	4180	HA	ASN	X	279	58.027	58.366	41.345	0.00	0.00
ATOM	4181	CB	ASN	X	279	58.437	60.363	40.875	0.00	0.00
ATOM	4182	HB2	ASN	X	279	58.205	60.162	39.829	0.00	0.00
ATOM	4183	HB3	ASN	X	279	58.054	61.348	41.142	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.936	60.272	41.046	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.601	61.155	41.531	0.00	0.00
ATOM	4186	ND2	ASN	X	279	60.481	59.114	40.776	0.00	0.00
ATOM	4187	HD21	ASN	X	279	61.442	59.023	41.072	0.00	0.00
ATOM	4188	HD22	ASN	X	279	60.092	58.379	40.203	0.00	0.00
ATOM	4189	C	ASN	X	279	57.954	59.416	43.137	0.00	0.00
ATOM	4190	O	ASN	X	279	58.817	58.739	43.676	0.00	0.00
ATOM	4191	N	HIE	X	280	57.259	60.292	43.872	0.00	0.00
ATOM	4192	H	HIE	X	280	56.446	60.717	43.449	0.00	0.00
ATOM	4193	CA	HIE	X	280	57.358	60.540	45.307	0.00	0.00
ATOM	4194	HA	HIE	X	280	58.361	60.331	45.679	0.00	0.00
ATOM	4195	CB	HIE	X	280	56.996	61.989	45.616	0.00	0.00
ATOM	4196	HB2	HIE	X	280	56.198	62.293	44.939	0.00	0.00
ATOM	4197	HB3	HIE	X	280	56.571	62.242	46.588	0.00	0.00
ATOM	4198	CG	HIE	X	280	58.141	63.031	45.442	0.00	0.00
ATOM	4199	ND1	HIE	X	280	58.770	63.614	46.501	0.00	0.00
ATOM	4200	CE1	HIE	X	280	59.556	64.574	45.935	0.00	0.00
ATOM	4201	HE1	HIE	X	280	60.132	65.278	46.516	0.00	0.00
ATOM	4202	NE2	HIE	X	280	59.429	64.577	44.610	0.00	0.00
ATOM	4203	HE2	HIE	X	280	59.962	65.217	44.039	0.00	0.00
ATOM	4204	CD2	HIE	X	280	58.553	63.594	44.283	0.00	0.00
ATOM	4205	HD2	HIE	X	280	58.223	63.385	43.276	0.00	0.00
ATOM	4206	C	HIE	X	280	56.433	59.576	46.065	0.00	0.00
ATOM	4207	O	HIE	X	280	56.704	59.353	47.283	0.00	0.00
ATOM	4208	N	GLU	X	281	55.400	58.896	45.421	0.00	0.00
ATOM	4209	H	GLU	X	281	55.158	59.132	44.470	0.00	0.00
ATOM	4210	CA	GLU	X	281	54.546	57.894	46.090	0.00	0.00
ATOM	4211	HA	GLU	X	281	54.327	58.261	47.093	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.306	57.613	45.210	0.00	0.00
ATOM	4213	HB2	GLU	X	281	52.836	58.576	45.008	0.00	0.00
ATOM	4214	HB3	GLU	X	281	53.501	57.239	44.205	0.00	0.00
ATOM	4215	CG	GLU	X	281	52.306	56.689	45.839	0.00	0.00
ATOM	4216	HG2	GLU	X	281	52.882	55.841	46.211	0.00	0.00
ATOM	4217	HG3	GLU	X	281	51.832	57.196	46.679	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.227	56.198	44.891	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.559	57.119	44.403	0.00	0.00
ATOM	4220	OE2	GLU	X	281	51.037	54.982	44.706	0.00	0.00
ATOM	4221	C	GLU	X	281	55.224	56.502	46.273	0.00	0.00
ATOM	4222	O	GLU	X	281	54.944	55.944	47.310	0.00	0.00
ATOM	4223	N	TRP	X	282	56.059	56.028	45.440	0.00	0.00
ATOM	4224	H	TRP	X	282	56.065	56.429	44.513	0.00	0.00
ATOM	4225	CA	TRP	X	282	56.634	54.694	45.541	0.00	0.00
ATOM	4226	HA	TRP	X	282	55.905	53.884	45.543	0.00	0.00
ATOM	4227	CB	TRP	X	282	57.658	54.490	44.411	0.00	0.00
ATOM	4228	HB2	TRP	X	282	57.140	54.636	43.463	0.00	0.00
ATOM	4229	HB3	TRP	X	282	58.545	55.117	44.497	0.00	0.00
ATOM	4230	CG	TRP	X	282	58.160	53.062	44.446	0.00	0.00
ATOM	4231	CD1	TRP	X	282	57.370	51.937	44.390	0.00	0.00
ATOM	4232	HD1	TRP	X	282	56.290	51.906	44.360	0.00	0.00
ATOM	4233	NE1	TRP	X	282	58.229	50.893	44.195	0.00	0.00
ATOM	4234	HE1	TRP	X	282	57.930	49.930	44.152	0.00	0.00
ATOM	4235	CE2	TRP	X	282	59.519	51.250	44.292	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	60.675	50.537	44.287	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	60.669	49.458	44.251	0.00	0.00
ATOM	4238	CH2	TRP	X	282	61.936	51.131	44.297	0.00	0.00
ATOM	4239	HH2	TRP	X	282	62.845	50.576	44.115	0.00	0.00

ATOM	4240	CZ3	TRP	X	282	62.033	52.553	44.410	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	62.984	53.047	44.543	0.00	0.00
ATOM	4242	CE3	TRP	X	282	60.828	53.318	44.389	0.00	0.00
ATOM	4243	HE3	TRP	X	282	60.914	54.380	44.564	0.00	0.00
ATOM	4244	CD2	TRP	X	282	59.544	52.718	44.397	0.00	0.00
ATOM	4245	C	TRP	X	282	57.381	54.570	46.900	0.00	0.00
ATOM	4246	O	TRP	X	282	57.553	53.490	47.535	0.00	0.00
ATOM	4247	N	HIE	X	283	57.963	55.698	47.338	0.00	0.00
ATOM	4248	H	HIE	X	283	58.130	56.406	46.637	0.00	0.00
ATOM	4249	CA	HIE	X	283	58.623	55.773	48.635	0.00	0.00
ATOM	4250	HA	HIE	X	283	59.461	55.076	48.648	0.00	0.00
ATOM	4251	CB	HIE	X	283	59.159	57.199	48.801	0.00	0.00
ATOM	4252	HB2	HIE	X	283	58.324	57.895	48.884	0.00	0.00
ATOM	4253	HB3	HIE	X	283	59.683	57.234	49.756	0.00	0.00
ATOM	4254	CG	HIE	X	283	60.198	57.590	47.760	0.00	0.00
ATOM	4255	ND1	HIE	X	283	59.890	58.323	46.640	0.00	0.00
ATOM	4256	CE1	HIE	X	283	61.142	58.552	46.177	0.00	0.00
ATOM	4257	HE1	HIE	X	283	61.272	59.076	45.241	0.00	0.00
ATOM	4258	NE2	HIE	X	283	62.089	57.997	46.869	0.00	0.00
ATOM	4259	HE2	HIE	X	283	63.070	58.152	46.682	0.00	0.00
ATOM	4260	CD2	HIE	X	283	61.503	57.424	47.903	0.00	0.00
ATOM	4261	HD2	HIE	X	283	62.017	57.026	48.765	0.00	0.00
ATOM	4262	C	HIE	X	283	57.679	55.347	49.789	0.00	0.00
ATOM	4263	O	HIE	X	283	58.189	54.865	50.809	0.00	0.00
ATOM	4264	N	VAL	X	284	56.337	55.567	49.616	0.00	0.00
ATOM	4265	H	VAL	X	284	55.978	55.865	48.720	0.00	0.00
ATOM	4266	CA	VAL	X	284	55.322	55.330	50.686	0.00	0.00
ATOM	4267	HA	VAL	X	284	55.872	55.528	51.606	0.00	0.00
ATOM	4268	CB	VAL	X	284	54.133	56.290	50.664	0.00	0.00
ATOM	4269	HB	VAL	X	284	53.793	56.258	51.699	0.00	0.00
ATOM	4270	CG1	VAL	X	284	54.495	57.751	50.455	0.00	0.00
ATOM	4271	HG11	VAL	X	284	54.639	57.907	49.386	0.00	0.00
ATOM	4272	HG12	VAL	X	284	53.784	58.465	50.869	0.00	0.00
ATOM	4273	HG13	VAL	X	284	55.378	57.999	51.044	0.00	0.00
ATOM	4274	CG2	VAL	X	284	52.891	55.873	49.762	0.00	0.00
ATOM	4275	HG21	VAL	X	284	52.182	56.695	49.860	0.00	0.00
ATOM	4276	HG22	VAL	X	284	52.534	54.939	50.197	0.00	0.00
ATOM	4277	HG23	VAL	X	284	53.140	55.698	48.715	0.00	0.00
ATOM	4278	C	VAL	X	284	54.894	53.808	50.815	0.00	0.00
ATOM	4279	O	VAL	X	284	54.313	53.396	51.824	0.00	0.00
ATOM	4280	N	LEU	X	285	55.278	52.998	49.880	0.00	0.00
ATOM	4281	H	LEU	X	285	55.697	53.316	49.018	0.00	0.00
ATOM	4282	CA	LEU	X	285	55.319	51.525	50.155	0.00	0.00
ATOM	4283	HA	LEU	X	285	54.304	51.127	50.162	0.00	0.00
ATOM	4284	CB	LEU	X	285	55.996	50.793	49.019	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.559	51.134	48.081	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.032	51.105	48.889	0.00	0.00
ATOM	4287	CG	LEU	X	285	55.839	49.286	49.021	0.00	0.00
ATOM	4288	HG	LEU	X	285	54.955	48.991	49.586	0.00	0.00
ATOM	4289	CD1	LEU	X	285	55.778	48.669	47.680	0.00	0.00
ATOM	4290	HD11	LEU	X	285	55.046	49.125	47.014	0.00	0.00
ATOM	4291	HD12	LEU	X	285	55.385	47.656	47.771	0.00	0.00
ATOM	4292	HD13	LEU	X	285	56.712	48.690	47.118	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.964	48.586	49.744	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.955	48.977	49.512	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.832	48.685	50.821	0.00	0.00
ATOM	4296	HD23	LEU	X	285	57.084	47.561	49.393	0.00	0.00
ATOM	4297	C	LEU	X	285	56.060	51.273	51.436	0.00	0.00
ATOM	4298	O	LEU	X	285	57.171	51.745	51.612	0.00	0.00
ATOM	4299	N	PRO	X	286	55.466	50.560	52.437	0.00	0.00
ATOM	4300	CD	PRO	X	286	54.129	49.970	52.248	0.00	0.00
ATOM	4301	HD2	PRO	X	286	54.063	49.289	51.400	0.00	0.00
ATOM	4302	HD3	PRO	X	286	53.329	50.710	52.258	0.00	0.00
ATOM	4303	CG	PRO	X	286	53.949	49.236	53.539	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.275	48.206	53.396	0.00	0.00
ATOM	4305	HG3	PRO	X	286	52.894	49.375	53.777	0.00	0.00
ATOM	4306	CB	PRO	X	286	54.843	49.945	54.681	0.00	0.00

ATOM	4307	HB2	PRO	X	286	55.170	49.236	55.441	0.00	0.00
ATOM	4308	HB3	PRO	X	286	54.238	50.771	55.056	0.00	0.00
ATOM	4309	CA	PRO	X	286	55.917	50.512	53.790	0.00	0.00
ATOM	4310	HA	PRO	X	286	56.196	51.432	54.303	0.00	0.00
ATOM	4311	C	PRO	X	286	57.162	49.565	53.883	0.00	0.00
ATOM	4312	O	PRO	X	286	57.128	48.488	53.248	0.00	0.00
ATOM	4313	N	GLN	X	287	58.240	49.991	54.529	0.00	0.00
ATOM	4314	H	GLN	X	287	58.282	50.889	54.989	0.00	0.00
ATOM	4315	CA	GLN	X	287	59.519	49.280	54.566	0.00	0.00
ATOM	4316	HA	GLN	X	287	59.912	49.035	53.579	0.00	0.00
ATOM	4317	CB	GLN	X	287	60.722	50.131	55.168	0.00	0.00
ATOM	4318	HB2	GLN	X	287	60.552	50.523	56.171	0.00	0.00
ATOM	4319	HB3	GLN	X	287	61.621	49.516	55.175	0.00	0.00
ATOM	4320	CG	GLN	X	287	61.119	51.430	54.403	0.00	0.00
ATOM	4321	HG2	GLN	X	287	61.576	51.145	53.455	0.00	0.00
ATOM	4322	HG3	GLN	X	287	60.238	52.018	54.145	0.00	0.00
ATOM	4323	CD	GLN	X	287	62.053	52.278	55.239	0.00	0.00
ATOM	4324	OE1	GLN	X	287	63.251	52.184	55.289	0.00	0.00
ATOM	4325	NE2	GLN	X	287	61.527	53.195	56.022	0.00	0.00
ATOM	4326	HE21	GLN	X	287	62.260	53.653	56.544	0.00	0.00
ATOM	4327	HE22	GLN	X	287	60.527	53.233	56.156	0.00	0.00
ATOM	4328	C	GLN	X	287	59.372	47.958	55.439	0.00	0.00
ATOM	4329	O	GLN	X	287	58.327	47.822	56.123	0.00	0.00
ATOM	4330	N	GLU	X	288	60.354	47.032	55.381	0.00	0.00
ATOM	4331	H	GLU	X	288	61.175	47.286	54.851	0.00	0.00
ATOM	4332	CA	GLU	X	288	60.483	45.854	56.228	0.00	0.00
ATOM	4333	HA	GLU	X	288	61.413	45.403	55.882	0.00	0.00
ATOM	4334	CB	GLU	X	288	60.538	46.365	57.711	0.00	0.00
ATOM	4335	HB2	GLU	X	288	59.585	46.848	57.926	0.00	0.00
ATOM	4336	HB3	GLU	X	288	60.523	45.499	58.373	0.00	0.00
ATOM	4337	CG	GLU	X	288	61.739	47.308	57.960	0.00	0.00
ATOM	4338	HG2	GLU	X	288	61.840	47.950	57.085	0.00	0.00
ATOM	4339	HG3	GLU	X	288	61.656	47.981	58.813	0.00	0.00
ATOM	4340	CD	GLU	X	288	63.026	46.533	58.174	0.00	0.00
ATOM	4341	OE1	GLU	X	288	63.351	46.215	59.348	0.00	0.00
ATOM	4342	OE2	GLU	X	288	63.711	46.145	57.185	0.00	0.00
ATOM	4343	C	GLU	X	288	59.228	44.929	55.956	0.00	0.00
ATOM	4344	O	GLU	X	288	58.470	44.660	56.894	0.00	0.00
ATOM	4345	N	SER	X	289	58.920	44.598	54.690	0.00	0.00
ATOM	4346	H	SER	X	289	59.628	44.772	53.991	0.00	0.00
ATOM	4347	CA	SER	X	289	57.563	44.093	54.251	0.00	0.00
ATOM	4348	HA	SER	X	289	57.340	43.328	54.995	0.00	0.00
ATOM	4349	CB	SER	X	289	56.512	45.194	54.143	0.00	0.00
ATOM	4350	HB2	SER	X	289	56.784	45.895	53.354	0.00	0.00
ATOM	4351	HB3	SER	X	289	55.557	44.725	53.908	0.00	0.00
ATOM	4352	OG	SER	X	289	56.260	45.944	55.311	0.00	0.00
ATOM	4353	HG	SER	X	289	57.020	46.512	55.456	0.00	0.00
ATOM	4354	C	SER	X	289	57.679	43.377	52.905	0.00	0.00
ATOM	4355	O	SER	X	289	58.464	43.831	52.070	0.00	0.00
ATOM	4356	N	VAL	X	290	56.881	42.296	52.644	0.00	0.00
ATOM	4357	H	VAL	X	290	56.182	42.028	53.322	0.00	0.00
ATOM	4358	CA	VAL	X	290	56.539	41.817	51.294	0.00	0.00
ATOM	4359	HA	VAL	X	290	56.783	42.610	50.587	0.00	0.00
ATOM	4360	CB	VAL	X	290	57.326	40.519	50.937	0.00	0.00
ATOM	4361	HB	VAL	X	290	56.840	40.083	50.065	0.00	0.00
ATOM	4362	CG1	VAL	X	290	58.801	40.809	50.561	0.00	0.00
ATOM	4363	HG11	VAL	X	290	59.292	40.915	51.528	0.00	0.00
ATOM	4364	HG12	VAL	X	290	59.217	39.934	50.061	0.00	0.00
ATOM	4365	HG13	VAL	X	290	58.916	41.680	49.916	0.00	0.00
ATOM	4366	CG2	VAL	X	290	57.242	39.432	52.081	0.00	0.00
ATOM	4367	HG21	VAL	X	290	57.628	38.456	51.787	0.00	0.00
ATOM	4368	HG22	VAL	X	290	56.240	39.328	52.495	0.00	0.00
ATOM	4369	HG23	VAL	X	290	57.911	39.589	52.927	0.00	0.00
ATOM	4370	C	VAL	X	290	55.071	41.581	51.251	0.00	0.00
ATOM	4371	O	VAL	X	290	54.523	41.168	52.250	0.00	0.00
ATOM	4372	N	PHE	X	291	54.347	41.673	50.062	0.00	0.00
ATOM	4373	H	PHE	X	291	54.817	41.886	49.194	0.00	0.00

ATOM	4374	CA	PHE	X	291	52.908	41.418	49.835	0.00	0.00
ATOM	4375	HA	PHE	X	291	52.677	41.477	48.771	0.00	0.00
ATOM	4376	CB	PHE	X	291	52.637	39.902	50.172	0.00	0.00
ATOM	4377	HB2	PHE	X	291	53.549	39.407	49.840	0.00	0.00
ATOM	4378	HB3	PHE	X	291	52.602	39.810	51.257	0.00	0.00
ATOM	4379	CG	PHE	X	291	51.516	39.064	49.584	0.00	0.00
ATOM	4380	CD1	PHE	X	291	50.372	39.701	48.995	0.00	0.00
ATOM	4381	HD1	PHE	X	291	50.379	40.781	49.010	0.00	0.00
ATOM	4382	CE1	PHE	X	291	49.387	38.945	48.352	0.00	0.00
ATOM	4383	HE1	PHE	X	291	48.530	39.483	47.975	0.00	0.00
ATOM	4384	CZ	PHE	X	291	49.579	37.525	48.258	0.00	0.00
ATOM	4385	HZ	PHE	X	291	48.831	36.885	47.814	0.00	0.00
ATOM	4386	CE2	PHE	X	291	50.635	36.847	48.903	0.00	0.00
ATOM	4387	HE2	PHE	X	291	50.764	35.775	48.920	0.00	0.00
ATOM	4388	CD2	PHE	X	291	51.632	37.648	49.528	0.00	0.00
ATOM	4389	HD2	PHE	X	291	52.508	37.129	49.888	0.00	0.00
ATOM	4390	C	PHE	X	291	52.126	42.508	50.558	0.00	0.00
ATOM	4391	O	PHE	X	291	51.010	42.302	50.955	0.00	0.00
ATOM	4392	N	ARG	X	292	52.713	43.687	50.655	0.00	0.00
ATOM	4393	H	ARG	X	292	53.650	43.635	50.282	0.00	0.00
ATOM	4394	CA	ARG	X	292	52.194	44.956	51.158	0.00	0.00
ATOM	4395	HA	ARG	X	292	51.148	45.156	50.928	0.00	0.00
ATOM	4396	CB	ARG	X	292	52.576	45.124	52.675	0.00	0.00
ATOM	4397	HB2	ARG	X	292	53.623	44.927	52.903	0.00	0.00
ATOM	4398	HB3	ARG	X	292	52.551	46.179	52.948	0.00	0.00
ATOM	4399	CG	ARG	X	292	51.593	44.321	53.552	0.00	0.00
ATOM	4400	HG2	ARG	X	292	50.674	44.813	53.232	0.00	0.00
ATOM	4401	HG3	ARG	X	292	51.489	43.254	53.356	0.00	0.00
ATOM	4402	CD	ARG	X	292	51.736	44.527	55.079	0.00	0.00
ATOM	4403	HD2	ARG	X	292	52.516	43.915	55.530	0.00	0.00
ATOM	4404	HD3	ARG	X	292	51.995	45.578	55.205	0.00	0.00
ATOM	4405	NE	ARG	X	292	50.498	44.213	55.737	0.00	0.00
ATOM	4406	HE	ARG	X	292	49.798	43.802	55.136	0.00	0.00
ATOM	4407	CZ	ARG	X	292	50.124	44.729	56.923	0.00	0.00
ATOM	4408	NH1	ARG	X	292	50.996	45.403	57.661	0.00	0.00
ATOM	4409	HH11	ARG	X	292	51.977	45.450	57.425	0.00	0.00
ATOM	4410	HH12	ARG	X	292	50.753	45.823	58.547	0.00	0.00
ATOM	4411	NH2	ARG	X	292	48.923	44.646	57.365	0.00	0.00
ATOM	4412	HH21	ARG	X	292	48.193	44.179	56.846	0.00	0.00
ATOM	4413	HH22	ARG	X	292	48.653	44.911	58.302	0.00	0.00
ATOM	4414	C	ARG	X	292	52.777	46.140	50.286	0.00	0.00
ATOM	4415	O	ARG	X	292	53.897	46.101	49.717	0.00	0.00
ATOM	4416	N	PHE	X	293	51.954	47.166	50.125	0.00	0.00
ATOM	4417	H	PHE	X	293	51.152	47.194	50.738	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.001	48.186	49.102	0.00	0.00
ATOM	4419	HA	PHE	X	293	52.974	48.146	48.612	0.00	0.00
ATOM	4420	CB	PHE	X	293	50.940	47.629	48.048	0.00	0.00
ATOM	4421	HB2	PHE	X	293	49.968	47.926	48.442	0.00	0.00
ATOM	4422	HB3	PHE	X	293	51.068	48.202	47.130	0.00	0.00
ATOM	4423	CG	PHE	X	293	50.967	46.135	47.757	0.00	0.00
ATOM	4424	CD1	PHE	X	293	52.147	45.577	47.203	0.00	0.00
ATOM	4425	HD1	PHE	X	293	52.844	46.244	46.716	0.00	0.00
ATOM	4426	CE1	PHE	X	293	52.213	44.190	46.886	0.00	0.00
ATOM	4427	HE1	PHE	X	293	53.106	43.783	46.436	0.00	0.00
ATOM	4428	CZ	PHE	X	293	51.106	43.369	47.289	0.00	0.00
ATOM	4429	HZ	PHE	X	293	51.319	42.312	47.239	0.00	0.00
ATOM	4430	CE2	PHE	X	293	50.081	43.905	48.005	0.00	0.00
ATOM	4431	HE2	PHE	X	293	49.296	43.247	48.348	0.00	0.00
ATOM	4432	CD2	PHE	X	293	49.963	45.288	48.256	0.00	0.00
ATOM	4433	HD2	PHE	X	293	49.128	45.590	48.871	0.00	0.00
ATOM	4434	C	PHE	X	293	51.705	49.591	49.589	0.00	0.00
ATOM	4435	O	PHE	X	293	51.464	49.760	50.755	0.00	0.00
ATOM	4436	N	SER	X	294	51.753	50.563	48.726	0.00	0.00
ATOM	4437	H	SER	X	294	52.012	50.345	47.774	0.00	0.00
ATOM	4438	CA	SER	X	294	51.748	52.011	48.940	0.00	0.00
ATOM	4439	HA	SER	X	294	52.524	52.361	49.620	0.00	0.00
ATOM	4440	CB	SER	X	294	52.029	52.671	47.597	0.00	0.00

ATOM	4441	HB2	SER	X	294	51.174	52.607	46.925	0.00	0.00
ATOM	4442	HB3	SER	X	294	52.070	53.747	47.770	0.00	0.00
ATOM	4443	OG	SER	X	294	53.299	52.338	47.092	0.00	0.00
ATOM	4444	HG	SER	X	294	53.350	52.661	46.189	0.00	0.00
ATOM	4445	C	SER	X	294	50.468	52.477	49.641	0.00	0.00
ATOM	4446	O	SER	X	294	50.458	52.974	50.788	0.00	0.00
ATOM	4447	N	PHE	X	295	49.328	52.341	48.916	0.00	0.00
ATOM	4448	H	PHE	X	295	49.309	51.768	48.085	0.00	0.00
ATOM	4449	CA	PHE	X	295	47.946	52.560	49.402	0.00	0.00
ATOM	4450	HA	PHE	X	295	47.957	52.473	50.488	0.00	0.00
ATOM	4451	CB	PHE	X	295	47.320	53.867	49.021	0.00	0.00
ATOM	4452	HB2	PHE	X	295	47.294	53.799	47.934	0.00	0.00
ATOM	4453	HB3	PHE	X	295	46.263	53.993	49.255	0.00	0.00
ATOM	4454	CG	PHE	X	295	48.050	55.169	49.448	0.00	0.00
ATOM	4455	CD1	PHE	X	295	47.644	55.857	50.612	0.00	0.00
ATOM	4456	HD1	PHE	X	295	46.854	55.491	51.251	0.00	0.00
ATOM	4457	CE1	PHE	X	295	48.241	57.092	50.987	0.00	0.00
ATOM	4458	HE1	PHE	X	295	47.867	57.693	51.802	0.00	0.00
ATOM	4459	CZ	PHE	X	295	49.329	57.615	50.242	0.00	0.00
ATOM	4460	HZ	PHE	X	295	49.814	58.574	50.348	0.00	0.00
ATOM	4461	CE2	PHE	X	295	49.705	56.841	49.076	0.00	0.00
ATOM	4462	HE2	PHE	X	295	50.510	57.160	48.430	0.00	0.00
ATOM	4463	CD2	PHE	X	295	49.072	55.705	48.617	0.00	0.00
ATOM	4464	HD2	PHE	X	295	49.485	55.258	47.725	0.00	0.00
ATOM	4465	C	PHE	X	295	47.020	51.486	48.841	0.00	0.00
ATOM	4466	O	PHE	X	295	47.431	50.925	47.786	0.00	0.00
ATOM	4467	N	VAL	X	296	45.913	51.193	49.482	0.00	0.00
ATOM	4468	H	VAL	X	296	45.640	51.767	50.267	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.101	49.982	49.339	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.004	49.817	48.265	0.00	0.00
ATOM	4471	CB	VAL	X	296	45.738	48.737	49.997	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.146	47.839	49.820	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.250	48.462	49.514	0.00	0.00
ATOM	4474	HG11	VAL	X	296	47.315	48.497	48.427	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.966	49.187	49.900	0.00	0.00
ATOM	4476	HG13	VAL	X	296	47.523	47.419	49.679	0.00	0.00
ATOM	4477	CG2	VAL	X	296	45.813	48.997	51.488	0.00	0.00
ATOM	4478	HG21	VAL	X	296	46.382	49.868	51.814	0.00	0.00
ATOM	4479	HG22	VAL	X	296	46.259	48.159	52.024	0.00	0.00
ATOM	4480	HG23	VAL	X	296	44.794	49.169	51.834	0.00	0.00
ATOM	4481	C	VAL	X	296	43.638	50.324	49.915	0.00	0.00
ATOM	4482	O	VAL	X	296	43.414	51.398	50.397	0.00	0.00
ATOM	4483	N	PRO	X	297	42.657	49.374	49.861	0.00	0.00
ATOM	4484	CD	PRO	X	297	42.709	48.169	49.022	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.257	47.413	49.586	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.170	48.334	48.048	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.285	47.767	48.885	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.277	46.677	48.907	0.00	0.00
ATOM	4489	HG3	PRO	X	297	40.859	48.223	47.991	0.00	0.00
ATOM	4490	CB	PRO	X	297	40.541	48.379	50.083	0.00	0.00
ATOM	4491	HB2	PRO	X	297	40.471	47.750	50.970	0.00	0.00
ATOM	4492	HB3	PRO	X	297	39.539	48.724	49.828	0.00	0.00
ATOM	4493	CA	PRO	X	297	41.348	49.555	50.449	0.00	0.00
ATOM	4494	HA	PRO	X	297	40.804	50.389	50.005	0.00	0.00
ATOM	4495	C	PRO	X	297	41.300	50.021	51.924	0.00	0.00
ATOM	4496	O	PRO	X	297	41.910	49.423	52.825	0.00	0.00
ATOM	4497	N	VAL	X	298	40.585	51.143	52.161	0.00	0.00
ATOM	4498	H	VAL	X	298	40.119	51.476	51.329	0.00	0.00
ATOM	4499	CA	VAL	X	298	40.771	51.892	53.431	0.00	0.00
ATOM	4500	HA	VAL	X	298	41.689	51.558	53.915	0.00	0.00
ATOM	4501	CB	VAL	X	298	40.914	53.404	53.190	0.00	0.00
ATOM	4502	HB	VAL	X	298	39.953	53.618	52.722	0.00	0.00
ATOM	4503	CG1	VAL	X	298	41.136	54.100	54.502	0.00	0.00
ATOM	4504	HG11	VAL	X	298	41.750	53.497	55.172	0.00	0.00
ATOM	4505	HG12	VAL	X	298	41.524	55.105	54.340	0.00	0.00
ATOM	4506	HG13	VAL	X	298	40.157	54.130	54.980	0.00	0.00
ATOM	4507	CG2	VAL	X	298	42.043	53.670	52.236	0.00	0.00

ATOM	4508	HG21	VAL	X	298	41.968	54.720	51.954	0.00	0.00
ATOM	4509	HG22	VAL	X	298	42.070	53.095	51.310	0.00	0.00
ATOM	4510	HG23	VAL	X	298	43.041	53.610	52.670	0.00	0.00
ATOM	4511	C	VAL	X	298	39.577	51.539	54.308	0.00	0.00
ATOM	4512	O	VAL	X	298	38.445	51.730	53.866	0.00	0.00
ATOM	4513	N	VAL	X	299	39.761	50.965	55.513	0.00	0.00
ATOM	4514	H	VAL	X	299	40.708	50.763	55.801	0.00	0.00
ATOM	4515	CA	VAL	X	299	38.702	50.996	56.550	0.00	0.00
ATOM	4516	HA	VAL	X	299	37.854	50.459	56.125	0.00	0.00
ATOM	4517	CB	VAL	X	299	39.127	50.142	57.810	0.00	0.00
ATOM	4518	HB	VAL	X	299	40.056	50.424	58.306	0.00	0.00
ATOM	4519	CG1	VAL	X	299	37.985	50.110	58.768	0.00	0.00
ATOM	4520	HG11	VAL	X	299	37.127	49.601	58.329	0.00	0.00
ATOM	4521	HG12	VAL	X	299	38.135	49.363	59.547	0.00	0.00
ATOM	4522	HG13	VAL	X	299	37.806	51.144	59.062	0.00	0.00
ATOM	4523	CG2	VAL	X	299	39.269	48.661	57.308	0.00	0.00
ATOM	4524	HG21	VAL	X	299	38.407	48.300	56.747	0.00	0.00
ATOM	4525	HG22	VAL	X	299	39.348	48.070	58.221	0.00	0.00
ATOM	4526	HG23	VAL	X	299	40.228	48.603	56.792	0.00	0.00
ATOM	4527	C	VAL	X	299	38.396	52.445	56.958	0.00	0.00
ATOM	4528	O	VAL	X	299	39.076	52.982	57.858	0.00	0.00
ATOM	4529	N	ASP	X	300	37.488	53.093	56.279	0.00	0.00
ATOM	4530	H	ASP	X	300	36.917	52.612	55.599	0.00	0.00
ATOM	4531	CA	ASP	X	300	37.210	54.495	56.323	0.00	0.00
ATOM	4532	HA	ASP	X	300	38.032	55.002	56.828	0.00	0.00
ATOM	4533	CB	ASP	X	300	37.218	54.997	54.856	0.00	0.00
ATOM	4534	HB2	ASP	X	300	37.472	56.055	54.801	0.00	0.00
ATOM	4535	HB3	ASP	X	300	37.925	54.421	54.259	0.00	0.00
ATOM	4536	CG	ASP	X	300	35.825	54.785	54.219	0.00	0.00
ATOM	4537	OD1	ASP	X	300	35.224	55.812	53.783	0.00	0.00
ATOM	4538	OD2	ASP	X	300	35.300	53.656	54.142	0.00	0.00
ATOM	4539	C	ASP	X	300	36.004	54.985	57.082	0.00	0.00
ATOM	4540	O	ASP	X	300	35.904	56.213	57.362	0.00	0.00
ATOM	4541	N	GLY	X	301	34.990	54.146	57.439	0.00	0.00
ATOM	4542	H	GLY	X	301	35.093	53.175	57.180	0.00	0.00
ATOM	4543	CA	GLY	X	301	33.733	54.503	58.039	0.00	0.00
ATOM	4544	HA2	GLY	X	301	33.496	53.639	58.660	0.00	0.00
ATOM	4545	HA3	GLY	X	301	33.914	55.360	58.688	0.00	0.00
ATOM	4546	C	GLY	X	301	32.528	54.728	57.155	0.00	0.00
ATOM	4547	O	GLY	X	301	31.487	55.204	57.648	0.00	0.00
ATOM	4548	N	ASP	X	302	32.566	54.311	55.919	0.00	0.00
ATOM	4549	H	ASP	X	302	33.402	53.859	55.578	0.00	0.00
ATOM	4550	CA	ASP	X	302	31.456	54.403	54.921	0.00	0.00
ATOM	4551	HA	ASP	X	302	30.472	54.371	55.390	0.00	0.00
ATOM	4552	CB	ASP	X	302	31.562	55.779	54.226	0.00	0.00
ATOM	4553	HB2	ASP	X	302	31.489	56.569	54.973	0.00	0.00
ATOM	4554	HB3	ASP	X	302	32.503	55.948	53.703	0.00	0.00
ATOM	4555	CG	ASP	X	302	30.432	56.133	53.248	0.00	0.00
ATOM	4556	OD1	ASP	X	302	30.658	56.635	52.133	0.00	0.00
ATOM	4557	OD2	ASP	X	302	29.245	55.917	53.696	0.00	0.00
ATOM	4558	C	ASP	X	302	31.516	53.304	53.869	0.00	0.00
ATOM	4559	O	ASP	X	302	30.473	52.714	53.532	0.00	0.00
ATOM	4560	N	PHE	X	303	32.677	53.012	53.252	0.00	0.00
ATOM	4561	H	PHE	X	303	33.530	53.515	53.450	0.00	0.00
ATOM	4562	CA	PHE	X	303	32.804	51.946	52.276	0.00	0.00
ATOM	4563	HA	PHE	X	303	31.884	51.759	51.722	0.00	0.00
ATOM	4564	CB	PHE	X	303	33.731	52.473	51.166	0.00	0.00
ATOM	4565	HB2	PHE	X	303	33.299	53.290	50.589	0.00	0.00
ATOM	4566	HB3	PHE	X	303	34.654	52.772	51.662	0.00	0.00
ATOM	4567	CG	PHE	X	303	34.089	51.248	50.315	0.00	0.00
ATOM	4568	CD1	PHE	X	303	35.259	50.496	50.631	0.00	0.00
ATOM	4569	HD1	PHE	X	303	35.953	50.866	51.371	0.00	0.00
ATOM	4570	CE1	PHE	X	303	35.504	49.314	49.836	0.00	0.00
ATOM	4571	HE1	PHE	X	303	36.463	48.825	49.925	0.00	0.00
ATOM	4572	CZ	PHE	X	303	34.581	48.833	48.960	0.00	0.00
ATOM	4573	HZ	PHE	X	303	34.734	47.930	48.388	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.499	49.575	48.641	0.00	0.00

ATOM	4575	HE2	PHE	X	303	32.780	49.157	47.952	0.00	0.00
ATOM	4576	CD2	PHE	X	303	33.217	50.843	49.299	0.00	0.00
ATOM	4577	HD2	PHE	X	303	32.313	51.367	49.026	0.00	0.00
ATOM	4578	C	PHE	X	303	33.343	50.625	52.897	0.00	0.00
ATOM	4579	O	PHE	X	303	33.085	49.493	52.431	0.00	0.00
ATOM	4580	N	LEU	X	304	34.066	50.775	54.015	0.00	0.00
ATOM	4581	H	LEU	X	304	34.276	51.718	54.311	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.433	49.732	55.031	0.00	0.00
ATOM	4583	HA	LEU	X	304	33.762	48.896	54.835	0.00	0.00
ATOM	4584	CB	LEU	X	304	35.939	49.415	54.819	0.00	0.00
ATOM	4585	HB2	LEU	X	304	36.436	50.363	54.615	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.363	49.099	55.773	0.00	0.00
ATOM	4587	CG	LEU	X	304	36.338	48.351	53.818	0.00	0.00
ATOM	4588	HG	LEU	X	304	35.735	48.504	52.923	0.00	0.00
ATOM	4589	CD1	LEU	X	304	37.818	48.416	53.496	0.00	0.00
ATOM	4590	HD11	LEU	X	304	38.539	48.322	54.308	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.033	49.341	52.960	0.00	0.00
ATOM	4592	HD13	LEU	X	304	37.986	47.586	52.810	0.00	0.00
ATOM	4593	CD2	LEU	X	304	35.916	46.905	54.286	0.00	0.00
ATOM	4594	HD21	LEU	X	304	36.001	46.184	53.474	0.00	0.00
ATOM	4595	HD22	LEU	X	304	36.640	46.853	55.099	0.00	0.00
ATOM	4596	HD23	LEU	X	304	34.926	46.976	54.737	0.00	0.00
ATOM	4597	C	LEU	X	304	34.116	50.232	56.479	0.00	0.00
ATOM	4598	O	LEU	X	304	34.423	51.317	56.861	0.00	0.00
ATOM	4599	N	SER	X	305	33.543	49.303	57.184	0.00	0.00
ATOM	4600	H	SER	X	305	33.145	48.521	56.684	0.00	0.00
ATOM	4601	CA	SER	X	305	33.112	49.465	58.585	0.00	0.00
ATOM	4602	HA	SER	X	305	33.142	50.524	58.841	0.00	0.00
ATOM	4603	CB	SER	X	305	31.614	49.071	58.791	0.00	0.00
ATOM	4604	HB2	SER	X	305	31.563	48.027	59.100	0.00	0.00
ATOM	4605	HB3	SER	X	305	31.259	49.643	59.649	0.00	0.00
ATOM	4606	OG	SER	X	305	30.773	49.322	57.689	0.00	0.00
ATOM	4607	HG	SER	X	305	31.057	48.755	56.968	0.00	0.00
ATOM	4608	C	SER	X	305	33.943	48.625	59.583	0.00	0.00
ATOM	4609	O	SER	X	305	33.808	48.899	60.774	0.00	0.00
ATOM	4610	N	ASP	X	306	34.837	47.701	59.221	0.00	0.00
ATOM	4611	H	ASP	X	306	34.954	47.674	58.218	0.00	0.00
ATOM	4612	CA	ASP	X	306	35.798	46.971	60.027	0.00	0.00
ATOM	4613	HA	ASP	X	306	36.311	47.601	60.753	0.00	0.00
ATOM	4614	CB	ASP	X	306	35.083	45.892	60.920	0.00	0.00
ATOM	4615	HB2	ASP	X	306	34.013	46.090	60.974	0.00	0.00
ATOM	4616	HB3	ASP	X	306	35.157	44.893	60.489	0.00	0.00
ATOM	4617	CG	ASP	X	306	35.674	45.788	62.279	0.00	0.00
ATOM	4618	OD1	ASP	X	306	34.980	45.299	63.232	0.00	0.00
ATOM	4619	OD2	ASP	X	306	36.925	45.871	62.422	0.00	0.00
ATOM	4620	C	ASP	X	306	36.872	46.376	59.079	0.00	0.00
ATOM	4621	O	ASP	X	306	36.815	46.536	57.837	0.00	0.00
ATOM	4622	N	THR	X	307	37.909	45.652	59.536	0.00	0.00
ATOM	4623	H	THR	X	307	38.069	45.382	60.496	0.00	0.00
ATOM	4624	CA	THR	X	307	38.650	44.777	58.613	0.00	0.00
ATOM	4625	HA	THR	X	307	38.945	45.349	57.734	0.00	0.00
ATOM	4626	CB	THR	X	307	39.860	44.222	59.342	0.00	0.00
ATOM	4627	HB	THR	X	307	40.263	43.492	58.640	0.00	0.00
ATOM	4628	CG2	THR	X	307	40.908	45.239	59.869	0.00	0.00
ATOM	4629	HG21	THR	X	307	41.228	45.858	59.031	0.00	0.00
ATOM	4630	HG22	THR	X	307	41.854	44.790	60.171	0.00	0.00
ATOM	4631	HG23	THR	X	307	40.401	45.774	60.672	0.00	0.00
ATOM	4632	OG1	THR	X	307	39.463	43.689	60.573	0.00	0.00
ATOM	4633	HG1	THR	X	307	40.119	43.017	60.771	0.00	0.00
ATOM	4634	C	THR	X	307	37.726	43.648	58.119	0.00	0.00
ATOM	4635	O	THR	X	307	37.008	43.057	58.914	0.00	0.00
ATOM	4636	N	PRO	X	308	37.775	43.233	56.826	0.00	0.00
ATOM	4637	CD	PRO	X	308	38.219	44.091	55.650	0.00	0.00
ATOM	4638	HD2	PRO	X	308	39.284	44.265	55.804	0.00	0.00
ATOM	4639	HD3	PRO	X	308	37.559	44.955	55.725	0.00	0.00
ATOM	4640	CG	PRO	X	308	37.795	43.222	54.401	0.00	0.00
ATOM	4641	HG2	PRO	X	308	38.590	43.133	53.661	0.00	0.00

ATOM	4642	HG3	PRO	X	308	36.914	43.589	53.875	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.614	41.826	54.891	0.00	0.00
ATOM	4644	HB2	PRO	X	308	38.604	41.379	54.982	0.00	0.00
ATOM	4645	HB3	PRO	X	308	36.967	41.269	54.214	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.036	42.122	56.301	0.00	0.00
ATOM	4647	HA	PRO	X	308	35.998	42.447	56.228	0.00	0.00
ATOM	4648	C	PRO	X	308	37.105	40.864	57.165	0.00	0.00
ATOM	4649	O	PRO	X	308	36.080	40.109	57.281	0.00	0.00
ATOM	4650	N	GLU	X	309	38.290	40.616	57.810	0.00	0.00
ATOM	4651	H	GLU	X	309	39.086	41.230	57.722	0.00	0.00
ATOM	4652	CA	GLU	X	309	38.384	39.327	58.615	0.00	0.00
ATOM	4653	HA	GLU	X	309	37.915	38.537	58.027	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.898	39.054	58.826	0.00	0.00
ATOM	4655	HB2	GLU	X	309	40.038	38.028	59.167	0.00	0.00
ATOM	4656	HB3	GLU	X	309	40.342	39.172	57.838	0.00	0.00
ATOM	4657	CG	GLU	X	309	40.619	39.963	59.781	0.00	0.00
ATOM	4658	HG2	GLU	X	309	40.547	40.954	59.334	0.00	0.00
ATOM	4659	HG3	GLU	X	309	40.083	39.977	60.730	0.00	0.00
ATOM	4660	CD	GLU	X	309	42.058	39.483	59.916	0.00	0.00
ATOM	4661	OE1	GLU	X	309	42.913	39.985	59.186	0.00	0.00
ATOM	4662	OE2	GLU	X	309	42.346	38.500	60.644	0.00	0.00
ATOM	4663	C	GLU	X	309	37.478	39.366	59.851	0.00	0.00
ATOM	4664	O	GLU	X	309	37.313	38.303	60.477	0.00	0.00
ATOM	4665	N	ALA	X	310	36.979	40.517	60.245	0.00	0.00
ATOM	4666	H	ALA	X	310	37.405	41.386	59.956	0.00	0.00
ATOM	4667	CA	ALA	X	310	35.812	40.621	61.205	0.00	0.00
ATOM	4668	HA	ALA	X	310	35.773	39.634	61.666	0.00	0.00
ATOM	4669	CB	ALA	X	310	36.334	41.633	62.192	0.00	0.00
ATOM	4670	HB1	ALA	X	310	36.504	42.568	61.658	0.00	0.00
ATOM	4671	HB2	ALA	X	310	37.293	41.387	62.647	0.00	0.00
ATOM	4672	HB3	ALA	X	310	35.532	41.754	62.920	0.00	0.00
ATOM	4673	C	ALA	X	310	34.449	40.820	60.565	0.00	0.00
ATOM	4674	O	ALA	X	310	33.470	40.319	61.085	0.00	0.00
ATOM	4675	N	LEU	X	311	34.324	41.550	59.456	0.00	0.00
ATOM	4676	H	LEU	X	311	35.108	42.127	59.188	0.00	0.00
ATOM	4677	CA	LEU	X	311	33.027	41.786	58.775	0.00	0.00
ATOM	4678	HA	LEU	X	311	32.402	42.320	59.491	0.00	0.00
ATOM	4679	CB	LEU	X	311	33.147	42.782	57.606	0.00	0.00
ATOM	4680	HB2	LEU	X	311	33.839	42.304	56.912	0.00	0.00
ATOM	4681	HB3	LEU	X	311	32.143	42.838	57.184	0.00	0.00
ATOM	4682	CG	LEU	X	311	33.430	44.293	57.875	0.00	0.00
ATOM	4683	HG	LEU	X	311	34.178	44.380	58.664	0.00	0.00
ATOM	4684	CD1	LEU	X	311	33.969	44.951	56.679	0.00	0.00
ATOM	4685	HD11	LEU	X	311	34.906	44.532	56.313	0.00	0.00
ATOM	4686	HD12	LEU	X	311	34.073	46.028	56.810	0.00	0.00
ATOM	4687	HD13	LEU	X	311	33.318	44.932	55.805	0.00	0.00
ATOM	4688	CD2	LEU	X	311	32.190	44.979	58.420	0.00	0.00
ATOM	4689	HD21	LEU	X	311	31.736	44.526	59.301	0.00	0.00
ATOM	4690	HD22	LEU	X	311	32.583	45.956	58.701	0.00	0.00
ATOM	4691	HD23	LEU	X	311	31.421	45.158	57.668	0.00	0.00
ATOM	4692	C	LEU	X	311	32.371	40.523	58.324	0.00	0.00
ATOM	4693	O	LEU	X	311	31.180	40.417	58.390	0.00	0.00
ATOM	4694	N	ILE	X	312	33.194	39.565	57.916	0.00	0.00
ATOM	4695	H	ILE	X	312	34.187	39.744	57.873	0.00	0.00
ATOM	4696	CA	ILE	X	312	32.716	38.291	57.353	0.00	0.00
ATOM	4697	HA	ILE	X	312	31.954	38.399	56.581	0.00	0.00
ATOM	4698	CB	ILE	X	312	33.893	37.647	56.664	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.480	38.443	56.205	0.00	0.00
ATOM	4700	CG2	ILE	X	312	34.967	37.041	57.603	0.00	0.00
ATOM	4701	HG21	ILE	X	312	34.564	36.202	58.170	0.00	0.00
ATOM	4702	HG22	ILE	X	312	35.311	37.742	58.363	0.00	0.00
ATOM	4703	HG23	ILE	X	312	35.785	36.829	56.914	0.00	0.00
ATOM	4704	CG1	ILE	X	312	33.563	36.572	55.552	0.00	0.00
ATOM	4705	HG12	ILE	X	312	34.316	35.789	55.464	0.00	0.00
ATOM	4706	HG13	ILE	X	312	32.574	36.127	55.659	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.484	37.339	54.232	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.228	36.473	53.622	0.00	0.00

ATOM	4709	HD12	ILE	X	312	34.471	37.664	53.903	0.00	0.00
ATOM	4710	HD13	ILE	X	312	32.671	38.061	54.154	0.00	0.00
ATOM	4711	C	ILE	X	312	32.128	37.290	58.395	0.00	0.00
ATOM	4712	O	ILE	X	312	31.293	36.445	58.074	0.00	0.00
ATOM	4713	N	ASN	X	313	32.419	37.524	59.701	0.00	0.00
ATOM	4714	H	ASN	X	313	32.960	38.321	60.004	0.00	0.00
ATOM	4715	CA	ASN	X	313	31.828	36.805	60.819	0.00	0.00
ATOM	4716	HA	ASN	X	313	31.473	35.817	60.528	0.00	0.00
ATOM	4717	CB	ASN	X	313	32.907	36.534	61.874	0.00	0.00
ATOM	4718	HB2	ASN	X	313	33.722	36.006	61.379	0.00	0.00
ATOM	4719	HB3	ASN	X	313	33.217	37.422	62.426	0.00	0.00
ATOM	4720	CG	ASN	X	313	32.484	35.549	62.932	0.00	0.00
ATOM	4721	OD1	ASN	X	313	32.236	34.389	62.724	0.00	0.00
ATOM	4722	ND2	ASN	X	313	32.339	35.985	64.198	0.00	0.00
ATOM	4723	HD21	ASN	X	313	32.180	35.428	65.026	0.00	0.00
ATOM	4724	HD22	ASN	X	313	32.780	36.879	64.358	0.00	0.00
ATOM	4725	C	ASN	X	313	30.484	37.419	61.220	0.00	0.00
ATOM	4726	O	ASN	X	313	29.637	36.761	61.865	0.00	0.00
ATOM	4727	N	ALA	X	314	30.278	38.653	60.739	0.00	0.00
ATOM	4728	H	ALA	X	314	30.927	39.100	60.108	0.00	0.00
ATOM	4729	CA	ALA	X	314	29.060	39.298	61.152	0.00	0.00
ATOM	4730	HA	ALA	X	314	29.000	39.219	62.237	0.00	0.00
ATOM	4731	CB	ALA	X	314	29.257	40.802	60.976	0.00	0.00
ATOM	4732	HB1	ALA	X	314	28.366	41.365	61.253	0.00	0.00
ATOM	4733	HB2	ALA	X	314	29.618	41.081	59.986	0.00	0.00
ATOM	4734	HB3	ALA	X	314	30.069	41.107	61.635	0.00	0.00
ATOM	4735	C	ALA	X	314	27.748	38.924	60.385	0.00	0.00
ATOM	4736	O	ALA	X	314	26.739	38.779	61.055	0.00	0.00
ATOM	4737	N	GLY	X	315	27.904	38.793	59.063	0.00	0.00
ATOM	4738	H	GLY	X	315	28.841	38.800	58.687	0.00	0.00
ATOM	4739	CA	GLY	X	315	26.771	38.602	58.163	0.00	0.00
ATOM	4740	HA2	GLY	X	315	25.852	38.954	58.633	0.00	0.00
ATOM	4741	HA3	GLY	X	315	26.974	39.290	57.342	0.00	0.00
ATOM	4742	C	GLY	X	315	26.618	37.167	57.648	0.00	0.00
ATOM	4743	O	GLY	X	315	27.315	36.186	57.980	0.00	0.00
ATOM	4744	N	ASP	X	316	25.658	36.990	56.777	0.00	0.00
ATOM	4745	H	ASP	X	316	25.079	37.786	56.551	0.00	0.00
ATOM	4746	CA	ASP	X	316	25.444	35.793	56.018	0.00	0.00
ATOM	4747	HA	ASP	X	316	25.933	34.953	56.510	0.00	0.00
ATOM	4748	CB	ASP	X	316	23.886	35.544	56.052	0.00	0.00
ATOM	4749	HB2	ASP	X	316	23.532	35.381	57.070	0.00	0.00
ATOM	4750	HB3	ASP	X	316	23.286	36.388	55.712	0.00	0.00
ATOM	4751	CG	ASP	X	316	23.525	34.259	55.379	0.00	0.00
ATOM	4752	OD1	ASP	X	316	24.304	33.289	55.520	0.00	0.00
ATOM	4753	OD2	ASP	X	316	22.519	34.234	54.601	0.00	0.00
ATOM	4754	C	ASP	X	316	26.038	35.903	54.529	0.00	0.00
ATOM	4755	O	ASP	X	316	26.286	36.975	54.002	0.00	0.00
ATOM	4756	N	PHE	X	317	26.226	34.697	53.935	0.00	0.00
ATOM	4757	H	PHE	X	317	25.986	33.862	54.450	0.00	0.00
ATOM	4758	CA	PHE	X	317	26.669	34.480	52.573	0.00	0.00
ATOM	4759	HA	PHE	X	317	26.232	35.225	51.908	0.00	0.00
ATOM	4760	CB	PHE	X	317	28.213	34.435	52.428	0.00	0.00
ATOM	4761	HB2	PHE	X	317	28.636	33.539	52.882	0.00	0.00
ATOM	4762	HB3	PHE	X	317	28.423	34.341	51.363	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.916	35.698	52.896	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.903	36.927	52.155	0.00	0.00
ATOM	4765	HD1	PHE	X	317	28.408	36.965	51.196	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.513	38.081	52.730	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.741	38.993	52.199	0.00	0.00
ATOM	4768	CZ	PHE	X	317	29.942	38.027	54.061	0.00	0.00
ATOM	4769	HZ	PHE	X	317	30.379	38.930	54.460	0.00	0.00
ATOM	4770	CE2	PHE	X	317	29.867	36.842	54.879	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.074	36.910	55.937	0.00	0.00
ATOM	4772	CD2	PHE	X	317	29.358	35.708	54.223	0.00	0.00
ATOM	4773	HD2	PHE	X	317	29.207	34.812	54.807	0.00	0.00
ATOM	4774	C	PHE	X	317	25.960	33.172	52.097	0.00	0.00
ATOM	4775	O	PHE	X	317	26.387	32.651	51.092	0.00	0.00

ATOM	4776	N	HIE	X	318	24.938	32.614	52.780	0.00	0.00
ATOM	4777	H	HIE	X	318	24.696	32.921	53.711	0.00	0.00
ATOM	4778	CA	HIE	X	318	24.103	31.473	52.252	0.00	0.00
ATOM	4779	HA	HIE	X	318	24.717	30.572	52.267	0.00	0.00
ATOM	4780	CB	HIE	X	318	22.871	31.264	53.148	0.00	0.00
ATOM	4781	HB2	HIE	X	318	23.107	31.158	54.206	0.00	0.00
ATOM	4782	HB3	HIE	X	318	22.258	32.162	53.077	0.00	0.00
ATOM	4783	CG	HIE	X	318	22.195	30.017	52.732	0.00	0.00
ATOM	4784	ND1	HIE	X	318	22.822	28.910	52.277	0.00	0.00
ATOM	4785	CE1	HIE	X	318	21.820	28.141	51.892	0.00	0.00
ATOM	4786	HE1	HIE	X	318	21.962	27.187	51.406	0.00	0.00
ATOM	4787	NE2	HIE	X	318	20.564	28.709	52.059	0.00	0.00
ATOM	4788	HE2	HIE	X	318	19.677	28.277	51.841	0.00	0.00
ATOM	4789	CD2	HIE	X	318	20.846	29.852	52.730	0.00	0.00
ATOM	4790	HD2	HIE	X	318	20.109	30.586	53.020	0.00	0.00
ATOM	4791	C	HIE	X	318	23.672	31.700	50.810	0.00	0.00
ATOM	4792	O	HIE	X	318	23.357	32.823	50.354	0.00	0.00
ATOM	4793	N	GLY	X	319	23.617	30.607	50.044	0.00	0.00
ATOM	4794	H	GLY	X	319	23.726	29.788	50.624	0.00	0.00
ATOM	4795	CA	GLY	X	319	23.189	30.453	48.679	0.00	0.00
ATOM	4796	HA2	GLY	X	319	23.356	29.394	48.482	0.00	0.00
ATOM	4797	HA3	GLY	X	319	22.111	30.606	48.621	0.00	0.00
ATOM	4798	C	GLY	X	319	23.841	31.308	47.634	0.00	0.00
ATOM	4799	O	GLY	X	319	23.300	31.493	46.542	0.00	0.00
ATOM	4800	N	LEU	X	320	25.069	31.824	47.854	0.00	0.00
ATOM	4801	H	LEU	X	320	25.487	31.628	48.753	0.00	0.00
ATOM	4802	CA	LEU	X	320	25.952	32.410	46.826	0.00	0.00
ATOM	4803	HA	LEU	X	320	25.297	32.876	46.089	0.00	0.00
ATOM	4804	CB	LEU	X	320	26.787	33.544	47.438	0.00	0.00
ATOM	4805	HB2	LEU	X	320	27.246	33.143	48.342	0.00	0.00
ATOM	4806	HB3	LEU	X	320	27.524	33.974	46.760	0.00	0.00
ATOM	4807	CG	LEU	X	320	25.923	34.735	47.869	0.00	0.00
ATOM	4808	HG	LEU	X	320	25.159	34.392	48.567	0.00	0.00
ATOM	4809	CD1	LEU	X	320	26.660	35.825	48.639	0.00	0.00
ATOM	4810	HD11	LEU	X	320	27.349	36.388	48.009	0.00	0.00
ATOM	4811	HD12	LEU	X	320	27.197	35.553	49.548	0.00	0.00
ATOM	4812	HD13	LEU	X	320	25.880	36.524	48.941	0.00	0.00
ATOM	4813	CD2	LEU	X	320	25.027	35.190	46.692	0.00	0.00
ATOM	4814	HD21	LEU	X	320	25.394	34.898	45.708	0.00	0.00
ATOM	4815	HD22	LEU	X	320	24.115	34.632	46.907	0.00	0.00
ATOM	4816	HD23	LEU	X	320	24.822	36.260	46.714	0.00	0.00
ATOM	4817	C	LEU	X	320	26.770	31.345	46.085	0.00	0.00
ATOM	4818	O	LEU	X	320	26.945	30.188	46.606	0.00	0.00
ATOM	4819	N	GLN	X	321	27.266	31.666	44.880	0.00	0.00
ATOM	4820	H	GLN	X	321	27.180	32.608	44.526	0.00	0.00
ATOM	4821	CA	GLN	X	321	28.053	30.784	44.050	0.00	0.00
ATOM	4822	HA	GLN	X	321	28.225	29.826	44.541	0.00	0.00
ATOM	4823	CB	GLN	X	321	27.276	30.766	42.854	0.00	0.00
ATOM	4824	HB2	GLN	X	321	26.973	31.788	42.627	0.00	0.00
ATOM	4825	HB3	GLN	X	321	27.892	30.452	42.012	0.00	0.00
ATOM	4826	CG	GLN	X	321	26.011	29.850	42.896	0.00	0.00
ATOM	4827	HG2	GLN	X	321	26.238	28.784	42.881	0.00	0.00
ATOM	4828	HG3	GLN	X	321	25.358	29.900	43.767	0.00	0.00
ATOM	4829	CD	GLN	X	321	24.998	30.137	41.732	0.00	0.00
ATOM	4830	OE1	GLN	X	321	24.743	29.344	40.841	0.00	0.00
ATOM	4831	NE2	GLN	X	321	24.199	31.149	41.787	0.00	0.00
ATOM	4832	HE21	GLN	X	321	23.482	31.227	41.080	0.00	0.00
ATOM	4833	HE22	GLN	X	321	24.343	31.921	42.422	0.00	0.00
ATOM	4834	C	GLN	X	321	29.510	31.339	43.825	0.00	0.00
ATOM	4835	O	GLN	X	321	29.666	32.443	43.204	0.00	0.00
ATOM	4836	N	VAL	X	322	30.535	30.613	44.308	0.00	0.00
ATOM	4837	H	VAL	X	322	30.348	29.718	44.738	0.00	0.00
ATOM	4838	CA	VAL	X	322	31.892	31.241	44.358	0.00	0.00
ATOM	4839	HA	VAL	X	322	31.998	32.153	43.771	0.00	0.00
ATOM	4840	CB	VAL	X	322	32.238	31.750	45.790	0.00	0.00
ATOM	4841	HB	VAL	X	322	32.513	30.956	46.484	0.00	0.00
ATOM	4842	CG1	VAL	X	322	33.519	32.531	45.881	0.00	0.00

ATOM	4843	HG11	VAL	X	322	33.906	32.598	46.898	0.00	0.00
ATOM	4844	HG12	VAL	X	322	34.237	32.295	45.096	0.00	0.00
ATOM	4845	HG13	VAL	X	322	33.355	33.607	45.820	0.00	0.00
ATOM	4846	CG2	VAL	X	322	31.141	32.605	46.394	0.00	0.00
ATOM	4847	HG21	VAL	X	322	30.290	31.952	46.589	0.00	0.00
ATOM	4848	HG22	VAL	X	322	30.840	33.392	45.703	0.00	0.00
ATOM	4849	HG23	VAL	X	322	31.406	32.981	47.382	0.00	0.00
ATOM	4850	C	VAL	X	322	32.982	30.208	43.979	0.00	0.00
ATOM	4851	O	VAL	X	322	32.897	29.065	44.488	0.00	0.00
ATOM	4852	N	LEU	X	323	33.856	30.478	43.087	0.00	0.00
ATOM	4853	H	LEU	X	323	33.823	31.410	42.698	0.00	0.00
ATOM	4854	CA	LEU	X	323	35.071	29.727	42.912	0.00	0.00
ATOM	4855	HA	LEU	X	323	34.865	28.729	43.298	0.00	0.00
ATOM	4856	CB	LEU	X	323	35.285	29.638	41.429	0.00	0.00
ATOM	4857	HB2	LEU	X	323	34.363	29.324	40.940	0.00	0.00
ATOM	4858	HB3	LEU	X	323	35.556	30.623	41.050	0.00	0.00
ATOM	4859	CG	LEU	X	323	36.446	28.665	41.095	0.00	0.00
ATOM	4860	HG	LEU	X	323	36.522	27.921	41.888	0.00	0.00
ATOM	4861	CD1	LEU	X	323	36.032	27.948	39.850	0.00	0.00
ATOM	4862	HD11	LEU	X	323	35.117	27.382	40.022	0.00	0.00
ATOM	4863	HD12	LEU	X	323	36.783	27.273	39.441	0.00	0.00
ATOM	4864	HD13	LEU	X	323	35.593	28.582	39.080	0.00	0.00
ATOM	4865	CD2	LEU	X	323	37.913	29.196	40.904	0.00	0.00
ATOM	4866	HD21	LEU	X	323	38.638	28.451	41.233	0.00	0.00
ATOM	4867	HD22	LEU	X	323	38.042	29.474	39.858	0.00	0.00
ATOM	4868	HD23	LEU	X	323	38.049	30.070	41.541	0.00	0.00
ATOM	4869	C	LEU	X	323	36.258	30.407	43.618	0.00	0.00
ATOM	4870	O	LEU	X	323	36.341	31.626	43.537	0.00	0.00
ATOM	4871	N	VAL	X	324	37.151	29.652	44.338	0.00	0.00
ATOM	4872	H	VAL	X	324	37.008	28.653	44.319	0.00	0.00
ATOM	4873	CA	VAL	X	324	38.292	30.157	45.097	0.00	0.00
ATOM	4874	HA	VAL	X	324	38.561	31.144	44.720	0.00	0.00
ATOM	4875	CB	VAL	X	324	38.015	30.134	46.637	0.00	0.00
ATOM	4876	HB	VAL	X	324	38.875	30.536	47.172	0.00	0.00
ATOM	4877	CG1	VAL	X	324	36.836	31.094	47.032	0.00	0.00
ATOM	4878	HG11	VAL	X	324	35.894	30.830	46.550	0.00	0.00
ATOM	4879	HG12	VAL	X	324	36.756	31.047	48.118	0.00	0.00
ATOM	4880	HG13	VAL	X	324	37.092	32.106	46.719	0.00	0.00
ATOM	4881	CG2	VAL	X	324	37.676	28.734	47.202	0.00	0.00
ATOM	4882	HG21	VAL	X	324	36.866	28.313	46.607	0.00	0.00
ATOM	4883	HG22	VAL	X	324	37.434	28.798	48.263	0.00	0.00
ATOM	4884	HG23	VAL	X	324	38.628	28.217	47.082	0.00	0.00
ATOM	4885	C	VAL	X	324	39.561	29.356	44.791	0.00	0.00
ATOM	4886	O	VAL	X	324	39.370	28.199	44.423	0.00	0.00
ATOM	4887	N	GLY	X	325	40.789	29.823	45.122	0.00	0.00
ATOM	4888	H	GLY	X	325	40.892	30.750	45.509	0.00	0.00
ATOM	4889	CA	GLY	X	325	42.038	29.046	44.932	0.00	0.00
ATOM	4890	HA2	GLY	X	325	42.094	28.352	45.771	0.00	0.00
ATOM	4891	HA3	GLY	X	325	42.036	28.486	43.997	0.00	0.00
ATOM	4892	C	GLY	X	325	43.273	29.909	44.864	0.00	0.00
ATOM	4893	O	GLY	X	325	43.277	31.151	45.016	0.00	0.00
ATOM	4894	N	VAL	X	326	44.371	29.237	44.615	0.00	0.00
ATOM	4895	H	VAL	X	326	44.300	28.236	44.495	0.00	0.00
ATOM	4896	CA	VAL	X	326	45.733	29.718	44.736	0.00	0.00
ATOM	4897	HA	VAL	X	326	45.793	30.738	44.356	0.00	0.00
ATOM	4898	CB	VAL	X	326	46.235	29.680	46.192	0.00	0.00
ATOM	4899	HB	VAL	X	326	47.299	29.443	46.184	0.00	0.00
ATOM	4900	CG1	VAL	X	326	46.028	30.994	46.982	0.00	0.00
ATOM	4901	HG11	VAL	X	326	46.567	31.821	46.520	0.00	0.00
ATOM	4902	HG12	VAL	X	326	44.962	31.223	46.969	0.00	0.00
ATOM	4903	HG13	VAL	X	326	46.348	30.857	48.015	0.00	0.00
ATOM	4904	CG2	VAL	X	326	45.616	28.586	47.001	0.00	0.00
ATOM	4905	HG21	VAL	X	326	46.018	28.512	48.011	0.00	0.00
ATOM	4906	HG22	VAL	X	326	45.865	27.679	46.450	0.00	0.00
ATOM	4907	HG23	VAL	X	326	44.553	28.788	47.131	0.00	0.00
ATOM	4908	C	VAL	X	326	46.672	28.827	43.898	0.00	0.00
ATOM	4909	O	VAL	X	326	46.213	27.745	43.490	0.00	0.00

ATOM	4910	N	VAL	X	327	47.883	29.248	43.652	0.00	0.00
ATOM	4911	H	VAL	X	327	48.177	30.173	43.929	0.00	0.00
ATOM	4912	CA	VAL	X	327	48.894	28.321	43.068	0.00	0.00
ATOM	4913	HA	VAL	X	327	48.321	27.741	42.344	0.00	0.00
ATOM	4914	CB	VAL	X	327	49.935	29.049	42.212	0.00	0.00
ATOM	4915	HB	VAL	X	327	50.761	28.355	42.059	0.00	0.00
ATOM	4916	CG1	VAL	X	327	49.413	29.505	40.820	0.00	0.00
ATOM	4917	HG11	VAL	X	327	48.946	28.637	40.355	0.00	0.00
ATOM	4918	HG12	VAL	X	327	48.741	30.360	40.889	0.00	0.00
ATOM	4919	HG13	VAL	X	327	50.226	29.698	40.120	0.00	0.00
ATOM	4920	CG2	VAL	X	327	50.550	30.300	42.848	0.00	0.00
ATOM	4921	HG21	VAL	X	327	49.847	31.128	42.758	0.00	0.00
ATOM	4922	HG22	VAL	X	327	51.409	30.616	42.257	0.00	0.00
ATOM	4923	HG23	VAL	X	327	50.797	30.115	43.894	0.00	0.00
ATOM	4924	C	VAL	X	327	49.622	27.565	44.144	0.00	0.00
ATOM	4925	O	VAL	X	327	49.622	27.997	45.267	0.00	0.00
ATOM	4926	N	LYS	X	328	50.335	26.462	43.798	0.00	0.00
ATOM	4927	H	LYS	X	328	50.242	26.157	42.839	0.00	0.00
ATOM	4928	CA	LYS	X	328	51.103	25.628	44.716	0.00	0.00
ATOM	4929	HA	LYS	X	328	50.350	25.222	45.391	0.00	0.00
ATOM	4930	CB	LYS	X	328	51.833	24.539	43.892	0.00	0.00
ATOM	4931	HB2	LYS	X	328	51.083	23.981	43.331	0.00	0.00
ATOM	4932	HB3	LYS	X	328	52.426	25.058	43.139	0.00	0.00
ATOM	4933	CG	LYS	X	328	52.557	23.516	44.695	0.00	0.00
ATOM	4934	HG2	LYS	X	328	53.386	23.967	45.239	0.00	0.00
ATOM	4935	HG3	LYS	X	328	51.768	23.231	45.390	0.00	0.00
ATOM	4936	CD	LYS	X	328	53.118	22.329	43.889	0.00	0.00
ATOM	4937	HD2	LYS	X	328	53.359	21.528	44.588	0.00	0.00
ATOM	4938	HD3	LYS	X	328	52.452	21.741	43.257	0.00	0.00
ATOM	4939	CE	LYS	X	328	54.421	22.610	43.142	0.00	0.00
ATOM	4940	HE2	LYS	X	328	54.801	21.653	42.783	0.00	0.00
ATOM	4941	HE3	LYS	X	328	53.993	23.090	42.262	0.00	0.00
ATOM	4942	NZ	LYS	X	328	55.468	23.393	43.757	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	55.940	22.988	44.553	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	56.232	23.539	43.113	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	55.117	24.297	44.040	0.00	0.00
ATOM	4946	C	LYS	X	328	52.038	26.457	45.677	0.00	0.00
ATOM	4947	O	LYS	X	328	51.807	26.287	46.862	0.00	0.00
ATOM	4948	N	ASP	X	329	53.015	27.262	45.218	0.00	0.00
ATOM	4949	H	ASP	X	329	53.088	27.407	44.221	0.00	0.00
ATOM	4950	CA	ASP	X	329	54.050	27.900	45.999	0.00	0.00
ATOM	4951	HA	ASP	X	329	54.132	27.214	46.842	0.00	0.00
ATOM	4952	CB	ASP	X	329	55.356	28.000	45.226	0.00	0.00
ATOM	4953	HB2	ASP	X	329	55.320	28.747	44.434	0.00	0.00
ATOM	4954	HB3	ASP	X	329	56.226	28.263	45.827	0.00	0.00
ATOM	4955	CG	ASP	X	329	55.781	26.510	44.716	0.00	0.00
ATOM	4956	OD1	ASP	X	329	56.214	25.767	45.630	0.00	0.00
ATOM	4957	OD2	ASP	X	329	55.528	26.197	43.519	0.00	0.00
ATOM	4958	C	ASP	X	329	53.681	29.321	46.519	0.00	0.00
ATOM	4959	O	ASP	X	329	54.089	29.685	47.618	0.00	0.00
ATOM	4960	N	GLU	X	330	52.829	30.035	45.838	0.00	0.00
ATOM	4961	H	GLU	X	330	52.560	29.576	44.979	0.00	0.00
ATOM	4962	CA	GLU	X	330	52.357	31.364	46.093	0.00	0.00
ATOM	4963	HA	GLU	X	330	51.998	31.647	45.103	0.00	0.00
ATOM	4964	CB	GLU	X	330	51.248	31.388	47.188	0.00	0.00
ATOM	4965	HB2	GLU	X	330	51.467	30.661	47.970	0.00	0.00
ATOM	4966	HB3	GLU	X	330	51.343	32.409	47.558	0.00	0.00
ATOM	4967	CG	GLU	X	330	49.814	31.074	46.711	0.00	0.00
ATOM	4968	HG2	GLU	X	330	49.753	30.091	46.245	0.00	0.00
ATOM	4969	HG3	GLU	X	330	49.092	31.043	47.527	0.00	0.00
ATOM	4970	CD	GLU	X	330	49.189	32.053	45.684	0.00	0.00
ATOM	4971	OE1	GLU	X	330	49.321	33.260	45.803	0.00	0.00
ATOM	4972	OE2	GLU	X	330	48.423	31.659	44.745	0.00	0.00
ATOM	4973	C	GLU	X	330	53.503	32.308	46.420	0.00	0.00
ATOM	4974	O	GLU	X	330	54.076	32.906	45.498	0.00	0.00
ATOM	4975	N	GLY	X	331	53.869	32.554	47.699	0.00	0.00
ATOM	4976	H	GLY	X	331	53.502	31.833	48.304	0.00	0.00

ATOM	4977	CA	GLY	X	331	54.708	33.619	48.264	0.00	0.00
ATOM	4978	HA2	GLY	X	331	54.468	34.599	47.851	0.00	0.00
ATOM	4979	HA3	GLY	X	331	54.666	33.536	49.350	0.00	0.00
ATOM	4980	C	GLY	X	331	56.211	33.399	47.957	0.00	0.00
ATOM	4981	O	GLY	X	331	57.004	34.281	48.262	0.00	0.00
ATOM	4982	N	SER	X	332	56.540	32.347	47.197	0.00	0.00
ATOM	4983	H	SER	X	332	55.767	31.796	46.852	0.00	0.00
ATOM	4984	CA	SER	X	332	57.853	32.112	46.614	0.00	0.00
ATOM	4985	HA	SER	X	332	58.665	32.028	47.336	0.00	0.00
ATOM	4986	CB	SER	X	332	57.811	30.824	45.843	0.00	0.00
ATOM	4987	HB2	SER	X	332	58.820	30.457	45.660	0.00	0.00
ATOM	4988	HB3	SER	X	332	57.268	30.092	46.441	0.00	0.00
ATOM	4989	OG	SER	X	332	57.060	30.986	44.645	0.00	0.00
ATOM	4990	HG	SER	X	332	57.128	30.236	44.050	0.00	0.00
ATOM	4991	C	SER	X	332	58.173	33.292	45.751	0.00	0.00
ATOM	4992	O	SER	X	332	59.260	33.699	45.762	0.00	0.00
ATOM	4993	N	TYR	X	333	57.158	33.931	45.107	0.00	0.00
ATOM	4994	H	TYR	X	333	56.260	33.469	45.098	0.00	0.00
ATOM	4995	CA	TYR	X	333	57.276	35.078	44.175	0.00	0.00
ATOM	4996	HA	TYR	X	333	57.968	34.925	43.347	0.00	0.00
ATOM	4997	CB	TYR	X	333	55.840	35.282	43.651	0.00	0.00
ATOM	4998	HB2	TYR	X	333	55.600	34.297	43.251	0.00	0.00
ATOM	4999	HB3	TYR	X	333	55.120	35.522	44.434	0.00	0.00
ATOM	5000	CG	TYR	X	333	55.687	36.378	42.621	0.00	0.00
ATOM	5001	CD1	TYR	X	333	56.419	36.353	41.473	0.00	0.00
ATOM	5002	HD1	TYR	X	333	57.033	35.533	41.132	0.00	0.00
ATOM	5003	CE1	TYR	X	333	56.400	37.406	40.515	0.00	0.00
ATOM	5004	HE1	TYR	X	333	56.910	37.327	39.567	0.00	0.00
ATOM	5005	CZ	TYR	X	333	55.541	38.504	40.737	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.390	39.536	39.842	0.00	0.00
ATOM	5007	HH	TYR	X	333	55.953	39.574	39.066	0.00	0.00
ATOM	5008	CE2	TYR	X	333	54.716	38.511	41.882	0.00	0.00
ATOM	5009	HE2	TYR	X	333	54.028	39.308	42.125	0.00	0.00
ATOM	5010	CD2	TYR	X	333	54.794	37.442	42.820	0.00	0.00
ATOM	5011	HD2	TYR	X	333	54.295	37.589	43.766	0.00	0.00
ATOM	5012	C	TYR	X	333	57.680	36.363	44.810	0.00	0.00
ATOM	5013	O	TYR	X	333	58.474	37.118	44.215	0.00	0.00
ATOM	5014	N	PHE	X	334	57.240	36.656	46.040	0.00	0.00
ATOM	5015	H	PHE	X	334	56.667	35.964	46.502	0.00	0.00
ATOM	5016	CA	PHE	X	334	57.407	37.968	46.725	0.00	0.00
ATOM	5017	HA	PHE	X	334	57.294	38.666	45.896	0.00	0.00
ATOM	5018	CB	PHE	X	334	56.217	38.007	47.732	0.00	0.00
ATOM	5019	HB2	PHE	X	334	55.990	37.016	48.124	0.00	0.00
ATOM	5020	HB3	PHE	X	334	56.514	38.680	48.536	0.00	0.00
ATOM	5021	CG	PHE	X	334	54.983	38.581	47.101	0.00	0.00
ATOM	5022	CD1	PHE	X	334	53.788	37.826	46.892	0.00	0.00
ATOM	5023	HD1	PHE	X	334	53.766	36.810	47.258	0.00	0.00
ATOM	5024	CE1	PHE	X	334	52.578	38.424	46.408	0.00	0.00
ATOM	5025	HE1	PHE	X	334	51.654	37.879	46.283	0.00	0.00
ATOM	5026	CZ	PHE	X	334	52.542	39.801	46.081	0.00	0.00
ATOM	5027	HZ	PHE	X	334	51.664	40.259	45.652	0.00	0.00
ATOM	5028	CE2	PHE	X	334	53.739	40.509	46.177	0.00	0.00
ATOM	5029	HE2	PHE	X	334	53.705	41.548	45.884	0.00	0.00
ATOM	5030	CD2	PHE	X	334	54.924	39.945	46.785	0.00	0.00
ATOM	5031	HD2	PHE	X	334	55.697	40.661	47.023	0.00	0.00
ATOM	5032	C	PHE	X	334	58.794	38.217	47.342	0.00	0.00
ATOM	5033	O	PHE	X	334	59.195	39.378	47.555	0.00	0.00
ATOM	5034	N	LEU	X	335	59.648	37.179	47.576	0.00	0.00
ATOM	5035	H	LEU	X	335	59.190	36.287	47.454	0.00	0.00
ATOM	5036	CA	LEU	X	335	60.876	37.329	48.312	0.00	0.00
ATOM	5037	HA	LEU	X	335	60.758	37.666	49.342	0.00	0.00
ATOM	5038	CB	LEU	X	335	61.548	35.926	48.374	0.00	0.00
ATOM	5039	HB2	LEU	X	335	61.794	35.720	47.332	0.00	0.00
ATOM	5040	HB3	LEU	X	335	62.526	36.004	48.849	0.00	0.00
ATOM	5041	CG	LEU	X	335	60.615	34.800	48.907	0.00	0.00
ATOM	5042	HG	LEU	X	335	59.911	34.564	48.109	0.00	0.00
ATOM	5043	CD1	LEU	X	335	61.282	33.453	49.105	0.00	0.00

ATOM	5044	HD11	LEU	X	335	62.003	33.572	49.914	0.00	0.00
ATOM	5045	HD12	LEU	X	335	61.707	33.067	48.179	0.00	0.00
ATOM	5046	HD13	LEU	X	335	60.532	32.710	49.376	0.00	0.00
ATOM	5047	CD2	LEU	X	335	59.836	35.298	50.135	0.00	0.00
ATOM	5048	HD21	LEU	X	335	60.534	35.901	50.716	0.00	0.00
ATOM	5049	HD22	LEU	X	335	59.099	36.077	49.943	0.00	0.00
ATOM	5050	HD23	LEU	X	335	59.356	34.437	50.601	0.00	0.00
ATOM	5051	C	LEU	X	335	61.834	38.344	47.624	0.00	0.00
ATOM	5052	O	LEU	X	335	62.412	39.184	48.295	0.00	0.00
ATOM	5053	N	VAL	X	336	62.114	38.159	46.302	0.00	0.00
ATOM	5054	H	VAL	X	336	61.726	37.311	45.916	0.00	0.00
ATOM	5055	CA	VAL	X	336	62.845	39.098	45.472	0.00	0.00
ATOM	5056	HA	VAL	X	336	63.830	39.092	45.937	0.00	0.00
ATOM	5057	CB	VAL	X	336	63.046	38.559	44.059	0.00	0.00
ATOM	5058	HB	VAL	X	336	63.808	39.141	43.539	0.00	0.00
ATOM	5059	CG1	VAL	X	336	63.719	37.255	43.875	0.00	0.00
ATOM	5060	HG11	VAL	X	336	64.753	37.328	44.213	0.00	0.00
ATOM	5061	HG12	VAL	X	336	63.207	36.510	44.484	0.00	0.00
ATOM	5062	HG13	VAL	X	336	63.708	36.934	42.834	0.00	0.00
ATOM	5063	CG2	VAL	X	336	61.713	38.661	43.235	0.00	0.00
ATOM	5064	HG21	VAL	X	336	60.881	38.113	43.678	0.00	0.00
ATOM	5065	HG22	VAL	X	336	61.842	38.271	42.226	0.00	0.00
ATOM	5066	HG23	VAL	X	336	61.326	39.678	43.179	0.00	0.00
ATOM	5067	C	VAL	X	336	62.350	40.566	45.557	0.00	0.00
ATOM	5068	O	VAL	X	336	63.082	41.409	44.949	0.00	0.00
ATOM	5069	N	TYR	X	337	61.212	40.906	46.184	0.00	0.00
ATOM	5070	H	TYR	X	337	60.650	40.139	46.523	0.00	0.00
ATOM	5071	CA	TYR	X	337	60.638	42.332	46.296	0.00	0.00
ATOM	5072	HA	TYR	X	337	61.073	43.068	45.620	0.00	0.00
ATOM	5073	CB	TYR	X	337	59.090	42.313	45.942	0.00	0.00
ATOM	5074	HB2	TYR	X	337	58.499	41.546	46.442	0.00	0.00
ATOM	5075	HB3	TYR	X	337	58.618	43.260	46.202	0.00	0.00
ATOM	5076	CG	TYR	X	337	58.714	41.971	44.506	0.00	0.00
ATOM	5077	CD1	TYR	X	337	58.625	43.045	43.581	0.00	0.00
ATOM	5078	HD1	TYR	X	337	58.592	44.074	43.906	0.00	0.00
ATOM	5079	CE1	TYR	X	337	58.558	42.741	42.191	0.00	0.00
ATOM	5080	HE1	TYR	X	337	58.534	43.592	41.528	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.513	41.394	41.739	0.00	0.00
ATOM	5082	OH	TYR	X	337	58.697	41.083	40.395	0.00	0.00
ATOM	5083	HH	TYR	X	337	58.779	41.927	39.946	0.00	0.00
ATOM	5084	CE2	TYR	X	337	58.615	40.360	42.714	0.00	0.00
ATOM	5085	HE2	TYR	X	337	58.814	39.403	42.255	0.00	0.00
ATOM	5086	CD2	TYR	X	337	58.751	40.624	44.055	0.00	0.00
ATOM	5087	HD2	TYR	X	337	59.149	39.924	44.775	0.00	0.00
ATOM	5088	C	TYR	X	337	60.894	42.886	47.770	0.00	0.00
ATOM	5089	O	TYR	X	337	60.377	43.887	48.172	0.00	0.00
ATOM	5090	N	GLY	X	338	61.668	42.183	48.606	0.00	0.00
ATOM	5091	H	GLY	X	338	62.130	41.397	48.172	0.00	0.00
ATOM	5092	CA	GLY	X	338	62.174	42.616	49.946	0.00	0.00
ATOM	5093	HA2	GLY	X	338	62.749	43.524	49.763	0.00	0.00
ATOM	5094	HA3	GLY	X	338	61.326	43.016	50.503	0.00	0.00
ATOM	5095	C	GLY	X	338	62.973	41.682	50.853	0.00	0.00
ATOM	5096	O	GLY	X	338	63.462	42.197	51.896	0.00	0.00
ATOM	5097	N	ALA	X	339	63.212	40.443	50.567	0.00	0.00
ATOM	5098	H	ALA	X	339	63.029	40.202	49.603	0.00	0.00
ATOM	5099	CA	ALA	X	339	64.071	39.551	51.337	0.00	0.00
ATOM	5100	HA	ALA	X	339	63.818	39.817	52.364	0.00	0.00
ATOM	5101	CB	ALA	X	339	63.600	38.126	51.109	0.00	0.00
ATOM	5102	HB1	ALA	X	339	64.058	37.904	50.146	0.00	0.00
ATOM	5103	HB2	ALA	X	339	62.526	37.937	51.104	0.00	0.00
ATOM	5104	HB3	ALA	X	339	64.024	37.444	51.846	0.00	0.00
ATOM	5105	C	ALA	X	339	65.620	39.709	51.172	0.00	0.00
ATOM	5106	O	ALA	X	339	66.022	40.052	50.036	0.00	0.00
ATOM	5107	N	PRO	X	340	66.491	39.544	52.210	0.00	0.00
ATOM	5108	CD	PRO	X	340	66.171	39.131	53.579	0.00	0.00
ATOM	5109	HD2	PRO	X	340	65.617	38.201	53.699	0.00	0.00
ATOM	5110	HD3	PRO	X	340	65.686	40.009	54.006	0.00	0.00

ATOM	5111	CG	PRO	X	340	67.545	38.914	54.248	0.00	0.00
ATOM	5112	HG2	PRO	X	340	67.865	37.872	54.267	0.00	0.00
ATOM	5113	HG3	PRO	X	340	67.508	39.274	55.276	0.00	0.00
ATOM	5114	CB	PRO	X	340	68.540	39.737	53.514	0.00	0.00
ATOM	5115	HB2	PRO	X	340	69.498	39.241	53.672	0.00	0.00
ATOM	5116	HB3	PRO	X	340	68.683	40.757	53.871	0.00	0.00
ATOM	5117	CA	PRO	X	340	67.947	39.705	52.093	0.00	0.00
ATOM	5118	HA	PRO	X	340	68.221	40.582	51.507	0.00	0.00
ATOM	5119	C	PRO	X	340	68.592	38.475	51.396	0.00	0.00
ATOM	5120	O	PRO	X	340	68.180	37.375	51.703	0.00	0.00
ATOM	5121	N	GLY	X	341	69.469	38.725	50.385	0.00	0.00
ATOM	5122	H	GLY	X	341	69.736	39.681	50.202	0.00	0.00
ATOM	5123	CA	GLY	X	341	70.158	37.678	49.622	0.00	0.00
ATOM	5124	HA2	GLY	X	341	71.036	38.123	49.154	0.00	0.00
ATOM	5125	HA3	GLY	X	341	70.534	36.940	50.330	0.00	0.00
ATOM	5126	C	GLY	X	341	69.273	37.064	48.516	0.00	0.00
ATOM	5127	O	GLY	X	341	69.446	35.908	48.121	0.00	0.00
ATOM	5128	N	PHE	X	342	68.250	37.822	48.023	0.00	0.00
ATOM	5129	H	PHE	X	342	68.180	38.761	48.390	0.00	0.00
ATOM	5130	CA	PHE	X	342	67.247	37.341	46.994	0.00	0.00
ATOM	5131	HA	PHE	X	342	67.602	36.395	46.585	0.00	0.00
ATOM	5132	CB	PHE	X	342	65.866	37.137	47.581	0.00	0.00
ATOM	5133	HB2	PHE	X	342	65.591	38.036	48.132	0.00	0.00
ATOM	5134	HB3	PHE	X	342	65.121	37.093	46.787	0.00	0.00
ATOM	5135	CG	PHE	X	342	65.535	35.951	48.406	0.00	0.00
ATOM	5136	CD1	PHE	X	342	64.898	34.826	47.889	0.00	0.00
ATOM	5137	HD1	PHE	X	342	64.588	34.664	46.867	0.00	0.00
ATOM	5138	CE1	PHE	X	342	64.511	33.772	48.702	0.00	0.00
ATOM	5139	HE1	PHE	X	342	63.983	32.887	48.379	0.00	0.00
ATOM	5140	CZ	PHE	X	342	64.729	33.913	50.080	0.00	0.00
ATOM	5141	HZ	PHE	X	342	64.391	33.108	50.716	0.00	0.00
ATOM	5142	CE2	PHE	X	342	65.507	34.973	50.639	0.00	0.00
ATOM	5143	HE2	PHE	X	342	65.628	35.041	51.711	0.00	0.00
ATOM	5144	CD2	PHE	X	342	65.930	35.998	49.760	0.00	0.00
ATOM	5145	HD2	PHE	X	342	66.434	36.858	50.173	0.00	0.00
ATOM	5146	C	PHE	X	342	67.263	38.244	45.788	0.00	0.00
ATOM	5147	O	PHE	X	342	67.228	39.475	46.006	0.00	0.00
ATOM	5148	N	SER	X	343	67.140	37.683	44.586	0.00	0.00
ATOM	5149	H	SER	X	343	67.046	36.679	44.529	0.00	0.00
ATOM	5150	CA	SER	X	343	67.235	38.454	43.333	0.00	0.00
ATOM	5151	HA	SER	X	343	66.541	39.287	43.444	0.00	0.00
ATOM	5152	CB	SER	X	343	68.659	39.034	43.234	0.00	0.00
ATOM	5153	HB2	SER	X	343	68.894	39.586	44.145	0.00	0.00
ATOM	5154	HB3	SER	X	343	69.425	38.284	43.038	0.00	0.00
ATOM	5155	OG	SER	X	343	68.664	39.944	42.151	0.00	0.00
ATOM	5156	HG	SER	X	343	69.323	39.584	41.552	0.00	0.00
ATOM	5157	C	SER	X	343	66.884	37.539	42.172	0.00	0.00
ATOM	5158	O	SER	X	343	67.083	36.330	42.309	0.00	0.00
ATOM	5159	N	LYS	X	344	66.430	38.044	41.058	0.00	0.00
ATOM	5160	H	LYS	X	344	66.444	39.040	40.893	0.00	0.00
ATOM	5161	CA	LYS	X	344	65.720	37.161	40.071	0.00	0.00
ATOM	5162	HA	LYS	X	344	64.875	36.627	40.505	0.00	0.00
ATOM	5163	CB	LYS	X	344	65.125	38.071	38.979	0.00	0.00
ATOM	5164	HB2	LYS	X	344	64.687	37.425	38.219	0.00	0.00
ATOM	5165	HB3	LYS	X	344	64.277	38.556	39.463	0.00	0.00
ATOM	5166	CG	LYS	X	344	66.129	39.021	38.236	0.00	0.00
ATOM	5167	HG2	LYS	X	344	66.245	39.937	38.815	0.00	0.00
ATOM	5168	HG3	LYS	X	344	67.086	38.542	38.032	0.00	0.00
ATOM	5169	CD	LYS	X	344	65.510	39.316	36.816	0.00	0.00
ATOM	5170	HD2	LYS	X	344	65.271	38.387	36.299	0.00	0.00
ATOM	5171	HD3	LYS	X	344	64.589	39.881	36.954	0.00	0.00
ATOM	5172	CE	LYS	X	344	66.508	40.085	35.912	0.00	0.00
ATOM	5173	HE2	LYS	X	344	66.050	40.420	34.981	0.00	0.00
ATOM	5174	HE3	LYS	X	344	66.832	41.029	36.350	0.00	0.00
ATOM	5175	NZ	LYS	X	344	67.838	39.381	35.662	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	68.348	39.892	34.956	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	68.447	39.468	36.463	0.00	0.00

ATOM	5178	HZ3	LYS	X	344	67.797	38.384	35.505	0.00	0.00
ATOM	5179	C	LYS	X	344	66.663	36.067	39.449	0.00	0.00
ATOM	5180	O	LYS	X	344	66.134	35.063	38.973	0.00	0.00
ATOM	5181	N	ASP	X	345	67.982	36.304	39.433	0.00	0.00
ATOM	5182	H	ASP	X	345	68.313	37.162	39.849	0.00	0.00
ATOM	5183	CA	ASP	X	345	69.122	35.640	38.962	0.00	0.00
ATOM	5184	HA	ASP	X	345	68.917	34.966	38.131	0.00	0.00
ATOM	5185	CB	ASP	X	345	70.160	36.638	38.445	0.00	0.00
ATOM	5186	HB2	ASP	X	345	70.995	36.104	37.991	0.00	0.00
ATOM	5187	HB3	ASP	X	345	69.709	37.404	37.813	0.00	0.00
ATOM	5188	CG	ASP	X	345	70.682	37.431	39.575	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.880	37.300	39.811	0.00	0.00
ATOM	5190	OD2	ASP	X	345	69.911	38.232	40.160	0.00	0.00
ATOM	5191	C	ASP	X	345	69.763	34.644	39.998	0.00	0.00
ATOM	5192	O	ASP	X	345	70.561	33.783	39.622	0.00	0.00
ATOM	5193	N	ASN	X	346	69.384	34.901	41.280	0.00	0.00
ATOM	5194	H	ASN	X	346	68.631	35.543	41.483	0.00	0.00
ATOM	5195	CA	ASN	X	346	70.028	34.257	42.441	0.00	0.00
ATOM	5196	HA	ASN	X	346	71.093	34.176	42.226	0.00	0.00
ATOM	5197	CB	ASN	X	346	70.011	35.290	43.637	0.00	0.00
ATOM	5198	HB2	ASN	X	346	70.341	36.289	43.352	0.00	0.00
ATOM	5199	HB3	ASN	X	346	69.042	35.303	44.136	0.00	0.00
ATOM	5200	CG	ASN	X	346	71.028	34.916	44.641	0.00	0.00
ATOM	5201	OD1	ASN	X	346	71.614	33.907	44.618	0.00	0.00
ATOM	5202	ND2	ASN	X	346	71.248	35.778	45.632	0.00	0.00
ATOM	5203	HD21	ASN	X	346	71.846	35.365	46.334	0.00	0.00
ATOM	5204	HD22	ASN	X	346	70.866	36.710	45.563	0.00	0.00
ATOM	5205	C	ASN	X	346	69.415	32.870	42.771	0.00	0.00
ATOM	5206	O	ASN	X	346	68.193	32.831	43.032	0.00	0.00
ATOM	5207	N	GLU	X	347	70.204	31.818	42.954	0.00	0.00
ATOM	5208	H	GLU	X	347	71.143	31.751	42.587	0.00	0.00
ATOM	5209	CA	GLU	X	347	69.679	30.559	43.581	0.00	0.00
ATOM	5210	HA	GLU	X	347	68.915	30.141	42.926	0.00	0.00
ATOM	5211	CB	GLU	X	347	70.781	29.504	43.513	0.00	0.00
ATOM	5212	HB2	GLU	X	347	71.428	29.786	42.683	0.00	0.00
ATOM	5213	HB3	GLU	X	347	71.385	29.580	44.417	0.00	0.00
ATOM	5214	CG	GLU	X	347	70.288	28.098	43.402	0.00	0.00
ATOM	5215	HG2	GLU	X	347	69.842	27.801	44.351	0.00	0.00
ATOM	5216	HG3	GLU	X	347	69.551	28.089	42.599	0.00	0.00
ATOM	5217	CD	GLU	X	347	71.381	27.105	43.048	0.00	0.00
ATOM	5218	OE1	GLU	X	347	71.665	26.286	43.968	0.00	0.00
ATOM	5219	OE2	GLU	X	347	72.096	27.190	42.014	0.00	0.00
ATOM	5220	C	GLU	X	347	69.069	30.811	45.002	0.00	0.00
ATOM	5221	O	GLU	X	347	68.371	29.981	45.550	0.00	0.00
ATOM	5222	N	SER	X	348	69.390	31.956	45.628	0.00	0.00
ATOM	5223	H	SER	X	348	70.202	32.412	45.236	0.00	0.00
ATOM	5224	CA	SER	X	348	68.706	32.580	46.733	0.00	0.00
ATOM	5225	HA	SER	X	348	69.173	33.534	46.978	0.00	0.00
ATOM	5226	CB	SER	X	348	67.246	32.784	46.340	0.00	0.00
ATOM	5227	HB2	SER	X	348	66.743	31.938	45.872	0.00	0.00
ATOM	5228	HB3	SER	X	348	66.660	33.075	47.213	0.00	0.00
ATOM	5229	OG	SER	X	348	67.076	33.915	45.477	0.00	0.00
ATOM	5230	HG	SER	X	348	67.437	33.762	44.600	0.00	0.00
ATOM	5231	C	SER	X	348	68.897	31.724	48.012	0.00	0.00
ATOM	5232	O	SER	X	348	67.958	31.220	48.618	0.00	0.00
ATOM	5233	N	LEU	X	349	70.185	31.348	48.309	0.00	0.00
ATOM	5234	H	LEU	X	349	70.842	31.790	47.682	0.00	0.00
ATOM	5235	CA	LEU	X	349	70.613	30.368	49.392	0.00	0.00
ATOM	5236	HA	LEU	X	349	69.780	29.729	49.684	0.00	0.00
ATOM	5237	CB	LEU	X	349	71.803	29.513	48.815	0.00	0.00
ATOM	5238	HB2	LEU	X	349	72.574	30.163	48.402	0.00	0.00
ATOM	5239	HB3	LEU	X	349	72.286	29.025	49.662	0.00	0.00
ATOM	5240	CG	LEU	X	349	71.420	28.469	47.740	0.00	0.00
ATOM	5241	HG	LEU	X	349	70.934	28.952	46.893	0.00	0.00
ATOM	5242	CD1	LEU	X	349	72.608	27.841	47.149	0.00	0.00
ATOM	5243	HD11	LEU	X	349	73.202	27.259	47.854	0.00	0.00
ATOM	5244	HD12	LEU	X	349	73.217	28.616	46.684	0.00	0.00

ATOM	5245	HD13	LEU	X	349	72.244	27.196	46.349	0.00	0.00
ATOM	5246	CD2	LEU	X	349	70.411	27.437	48.339	0.00	0.00
ATOM	5247	HD21	LEU	X	349	70.885	26.836	49.115	0.00	0.00
ATOM	5248	HD22	LEU	X	349	69.523	27.891	48.779	0.00	0.00
ATOM	5249	HD23	LEU	X	349	70.007	26.791	47.559	0.00	0.00
ATOM	5250	C	LEU	X	349	71.203	31.210	50.539	0.00	0.00
ATOM	5251	O	LEU	X	349	72.040	32.070	50.354	0.00	0.00
ATOM	5252	N	ILE	X	350	70.731	30.891	51.769	0.00	0.00
ATOM	5253	H	ILE	X	350	70.149	30.066	51.815	0.00	0.00
ATOM	5254	CA	ILE	X	350	70.672	31.873	52.873	0.00	0.00
ATOM	5255	HA	ILE	X	350	71.409	32.660	52.715	0.00	0.00
ATOM	5256	CB	ILE	X	350	69.312	32.693	52.810	0.00	0.00
ATOM	5257	HB	ILE	X	350	69.228	33.214	53.763	0.00	0.00
ATOM	5258	CG2	ILE	X	350	69.300	33.690	51.630	0.00	0.00
ATOM	5259	HG21	ILE	X	350	69.367	33.182	50.667	0.00	0.00
ATOM	5260	HG22	ILE	X	350	70.235	34.236	51.760	0.00	0.00
ATOM	5261	HG23	ILE	X	350	68.412	34.322	51.619	0.00	0.00
ATOM	5262	CG1	ILE	X	350	67.933	32.064	52.540	0.00	0.00
ATOM	5263	HG12	ILE	X	350	67.180	32.850	52.610	0.00	0.00
ATOM	5264	HG13	ILE	X	350	67.787	31.644	51.545	0.00	0.00
ATOM	5265	CD1	ILE	X	350	67.597	30.832	53.440	0.00	0.00
ATOM	5266	HD11	ILE	X	350	67.902	30.971	54.477	0.00	0.00
ATOM	5267	HD12	ILE	X	350	68.193	29.997	53.071	0.00	0.00
ATOM	5268	HD13	ILE	X	350	66.573	30.464	53.386	0.00	0.00
ATOM	5269	C	ILE	X	350	70.934	31.315	54.239	0.00	0.00
ATOM	5270	O	ILE	X	350	70.810	30.120	54.549	0.00	0.00
ATOM	5271	N	SER	X	351	71.482	32.235	55.080	0.00	0.00
ATOM	5272	H	SER	X	351	71.737	33.178	54.821	0.00	0.00
ATOM	5273	CA	SER	X	351	71.850	31.830	56.508	0.00	0.00
ATOM	5274	HA	SER	X	351	72.078	30.767	56.430	0.00	0.00
ATOM	5275	CB	SER	X	351	73.015	32.711	56.923	0.00	0.00
ATOM	5276	HB2	SER	X	351	73.312	32.271	57.875	0.00	0.00
ATOM	5277	HB3	SER	X	351	73.769	32.680	56.136	0.00	0.00
ATOM	5278	OG	SER	X	351	72.575	34.102	57.191	0.00	0.00
ATOM	5279	HG	SER	X	351	73.393	34.562	57.389	0.00	0.00
ATOM	5280	C	SER	X	351	70.631	31.805	57.422	0.00	0.00
ATOM	5281	O	SER	X	351	69.588	32.258	56.899	0.00	0.00
ATOM	5282	N	ARG	X	352	70.848	31.502	58.696	0.00	0.00
ATOM	5283	H	ARG	X	352	71.780	31.370	59.063	0.00	0.00
ATOM	5284	CA	ARG	X	352	69.769	31.568	59.672	0.00	0.00
ATOM	5285	HA	ARG	X	352	68.930	31.140	59.123	0.00	0.00
ATOM	5286	CB	ARG	X	352	70.029	30.759	60.974	0.00	0.00
ATOM	5287	HB2	ARG	X	352	71.010	30.779	61.449	0.00	0.00
ATOM	5288	HB3	ARG	X	352	69.373	31.112	61.770	0.00	0.00
ATOM	5289	CG	ARG	X	352	69.962	29.265	60.655	0.00	0.00
ATOM	5290	HG2	ARG	X	352	68.962	29.096	60.256	0.00	0.00
ATOM	5291	HG3	ARG	X	352	70.702	29.086	59.874	0.00	0.00
ATOM	5292	CD	ARG	X	352	70.145	28.339	61.847	0.00	0.00
ATOM	5293	HD2	ARG	X	352	70.205	27.309	61.495	0.00	0.00
ATOM	5294	HD3	ARG	X	352	71.131	28.526	62.273	0.00	0.00
ATOM	5295	NE	ARG	X	352	69.136	28.571	62.903	0.00	0.00
ATOM	5296	HE	ARG	X	352	69.484	29.216	63.599	0.00	0.00
ATOM	5297	CZ	ARG	X	352	67.907	28.077	63.000	0.00	0.00
ATOM	5298	NH1	ARG	X	352	67.299	27.380	62.071	0.00	0.00
ATOM	5299	HH11	ARG	X	352	67.864	26.804	61.464	0.00	0.00
ATOM	5300	HH12	ARG	X	352	66.291	27.330	62.029	0.00	0.00
ATOM	5301	NH2	ARG	X	352	67.147	28.573	63.896	0.00	0.00
ATOM	5302	HH21	ARG	X	352	67.671	29.128	64.559	0.00	0.00
ATOM	5303	HH22	ARG	X	352	66.266	28.105	64.050	0.00	0.00
ATOM	5304	C	ARG	X	352	69.533	33.050	59.923	0.00	0.00
ATOM	5305	O	ARG	X	352	68.351	33.374	60.076	0.00	0.00
ATOM	5306	N	ALA	X	353	70.502	33.928	59.950	0.00	0.00
ATOM	5307	H	ALA	X	353	71.451	33.607	60.082	0.00	0.00
ATOM	5308	CA	ALA	X	353	70.313	35.346	60.093	0.00	0.00
ATOM	5309	HA	ALA	X	353	69.727	35.456	61.006	0.00	0.00
ATOM	5310	CB	ALA	X	353	71.618	36.034	60.298	0.00	0.00
ATOM	5311	HB1	ALA	X	353	72.170	35.724	61.185	0.00	0.00

ATOM	5312	HB2	ALA	X	353	71.323	37.067	60.486	0.00	0.00
ATOM	5313	HB3	ALA	X	353	72.265	35.890	59.433	0.00	0.00
ATOM	5314	C	ALA	X	353	69.508	36.026	58.952	0.00	0.00
ATOM	5315	O	ALA	X	353	68.600	36.816	59.163	0.00	0.00
ATOM	5316	N	GLU	X	354	69.864	35.648	57.715	0.00	0.00
ATOM	5317	H	GLU	X	354	70.608	34.974	57.606	0.00	0.00
ATOM	5318	CA	GLU	X	354	69.060	36.029	56.578	0.00	0.00
ATOM	5319	HA	GLU	X	354	68.956	37.104	56.432	0.00	0.00
ATOM	5320	CB	GLU	X	354	69.874	35.549	55.370	0.00	0.00
ATOM	5321	HB2	GLU	X	354	70.079	34.484	55.484	0.00	0.00
ATOM	5322	HB3	GLU	X	354	69.201	35.535	54.513	0.00	0.00
ATOM	5323	CG	GLU	X	354	71.229	36.354	55.282	0.00	0.00
ATOM	5324	HG2	GLU	X	354	70.935	37.395	55.150	0.00	0.00
ATOM	5325	HG3	GLU	X	354	71.803	36.339	56.208	0.00	0.00
ATOM	5326	CD	GLU	X	354	72.028	35.920	54.073	0.00	0.00
ATOM	5327	OE1	GLU	X	354	72.163	34.723	53.825	0.00	0.00
ATOM	5328	OE2	GLU	X	354	72.670	36.715	53.478	0.00	0.00
ATOM	5329	C	GLU	X	354	67.642	35.456	56.573	0.00	0.00
ATOM	5330	O	GLU	X	354	66.697	36.165	56.309	0.00	0.00
ATOM	5331	N	PHE	X	355	67.469	34.158	56.857	0.00	0.00
ATOM	5332	H	PHE	X	355	68.233	33.507	56.969	0.00	0.00
ATOM	5333	CA	PHE	X	355	66.036	33.683	56.974	0.00	0.00
ATOM	5334	HA	PHE	X	355	65.562	34.000	56.044	0.00	0.00
ATOM	5335	CB	PHE	X	355	65.866	32.156	57.115	0.00	0.00
ATOM	5336	HB2	PHE	X	355	66.179	31.615	56.222	0.00	0.00
ATOM	5337	HB3	PHE	X	355	66.597	31.728	57.801	0.00	0.00
ATOM	5338	CG	PHE	X	355	64.454	31.644	57.504	0.00	0.00
ATOM	5339	CD1	PHE	X	355	63.371	31.782	56.588	0.00	0.00
ATOM	5340	HD1	PHE	X	355	63.579	32.256	55.640	0.00	0.00
ATOM	5341	CE1	PHE	X	355	62.130	31.185	56.887	0.00	0.00
ATOM	5342	HE1	PHE	X	355	61.393	31.159	56.098	0.00	0.00
ATOM	5343	CZ	PHE	X	355	61.919	30.468	58.098	0.00	0.00
ATOM	5344	HZ	PHE	X	355	60.961	30.029	58.334	0.00	0.00
ATOM	5345	CE2	PHE	X	355	62.936	30.385	59.034	0.00	0.00
ATOM	5346	HE2	PHE	X	355	62.838	29.838	59.960	0.00	0.00
ATOM	5347	CD2	PHE	X	355	64.149	30.984	58.732	0.00	0.00
ATOM	5348	HD2	PHE	X	355	64.941	30.986	59.466	0.00	0.00
ATOM	5349	C	PHE	X	355	65.241	34.344	58.085	0.00	0.00
ATOM	5350	O	PHE	X	355	64.091	34.694	57.873	0.00	0.00
ATOM	5351	N	LEU	X	356	65.901	34.671	59.254	0.00	0.00
ATOM	5352	H	LEU	X	356	66.869	34.419	59.392	0.00	0.00
ATOM	5353	CA	LEU	X	356	65.256	35.464	60.277	0.00	0.00
ATOM	5354	HA	LEU	X	356	64.356	35.004	60.687	0.00	0.00
ATOM	5355	CB	LEU	X	356	66.231	35.408	61.478	0.00	0.00
ATOM	5356	HB2	LEU	X	356	66.282	34.354	61.752	0.00	0.00
ATOM	5357	HB3	LEU	X	356	67.176	35.840	61.148	0.00	0.00
ATOM	5358	CG	LEU	X	356	65.668	36.208	62.657	0.00	0.00
ATOM	5359	HG	LEU	X	356	65.468	37.247	62.397	0.00	0.00
ATOM	5360	CD1	LEU	X	356	64.447	35.565	63.238	0.00	0.00
ATOM	5361	HD11	LEU	X	356	64.712	34.605	63.681	0.00	0.00
ATOM	5362	HD12	LEU	X	356	63.645	35.403	62.518	0.00	0.00
ATOM	5363	HD13	LEU	X	356	64.137	36.168	64.092	0.00	0.00
ATOM	5364	CD2	LEU	X	356	66.641	36.350	63.868	0.00	0.00
ATOM	5365	HD21	LEU	X	356	67.536	36.946	63.689	0.00	0.00
ATOM	5366	HD22	LEU	X	356	66.263	36.785	64.794	0.00	0.00
ATOM	5367	HD23	LEU	X	356	67.005	35.333	64.013	0.00	0.00
ATOM	5368	C	LEU	X	356	64.863	36.902	59.912	0.00	0.00
ATOM	5369	O	LEU	X	356	63.780	37.407	60.225	0.00	0.00
ATOM	5370	N	ALA	X	357	65.763	37.641	59.190	0.00	0.00
ATOM	5371	H	ALA	X	357	66.727	37.378	59.039	0.00	0.00
ATOM	5372	CA	ALA	X	357	65.472	38.878	58.613	0.00	0.00
ATOM	5373	HA	ALA	X	357	65.036	39.521	59.377	0.00	0.00
ATOM	5374	CB	ALA	X	357	66.770	39.398	58.091	0.00	0.00
ATOM	5375	HB1	ALA	X	357	66.646	40.162	57.324	0.00	0.00
ATOM	5376	HB2	ALA	X	357	67.386	38.645	57.599	0.00	0.00
ATOM	5377	HB3	ALA	X	357	67.430	39.708	58.901	0.00	0.00
ATOM	5378	C	ALA	X	357	64.343	38.738	57.587	0.00	0.00

ATOM	5379	O	ALA	X	357	63.402	39.571	57.615	0.00	0.00
ATOM	5380	N	GLY	X	358	64.386	37.686	56.724	0.00	0.00
ATOM	5381	H	GLY	X	358	65.176	37.070	56.855	0.00	0.00
ATOM	5382	CA	GLY	X	358	63.365	37.457	55.763	0.00	0.00
ATOM	5383	HA2	GLY	X	358	63.326	38.323	55.102	0.00	0.00
ATOM	5384	HA3	GLY	X	358	63.691	36.608	55.162	0.00	0.00
ATOM	5385	C	GLY	X	358	62.049	37.140	56.427	0.00	0.00
ATOM	5386	O	GLY	X	358	61.125	37.914	56.068	0.00	0.00
ATOM	5387	N	VAL	X	359	62.038	36.343	57.502	0.00	0.00
ATOM	5388	H	VAL	X	359	62.723	35.603	57.566	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.776	36.118	58.244	0.00	0.00
ATOM	5390	HA	VAL	X	359	60.050	35.826	57.485	0.00	0.00
ATOM	5391	CB	VAL	X	359	61.032	35.038	59.386	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.949	35.269	59.929	0.00	0.00
ATOM	5393	CG1	VAL	X	359	59.889	34.926	60.502	0.00	0.00
ATOM	5394	HG11	VAL	X	359	59.933	35.817	61.129	0.00	0.00
ATOM	5395	HG12	VAL	X	359	58.874	34.840	60.114	0.00	0.00
ATOM	5396	HG13	VAL	X	359	60.044	34.107	61.203	0.00	0.00
ATOM	5397	CG2	VAL	X	359	61.104	33.637	58.762	0.00	0.00
ATOM	5398	HG21	VAL	X	359	61.837	33.571	57.957	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.152	33.450	58.266	0.00	0.00
ATOM	5400	HG23	VAL	X	359	61.351	32.862	59.488	0.00	0.00
ATOM	5401	C	VAL	X	359	60.221	37.468	58.930	0.00	0.00
ATOM	5402	O	VAL	X	359	58.998	37.628	58.902	0.00	0.00
ATOM	5403	N	ARG	X	360	61.065	38.474	59.335	0.00	0.00
ATOM	5404	H	ARG	X	360	62.058	38.324	59.230	0.00	0.00
ATOM	5405	CA	ARG	X	360	60.575	39.738	59.831	0.00	0.00
ATOM	5406	HA	ARG	X	360	59.882	39.610	60.663	0.00	0.00
ATOM	5407	CB	ARG	X	360	61.805	40.590	60.232	0.00	0.00
ATOM	5408	HB2	ARG	X	360	62.606	39.955	60.610	0.00	0.00
ATOM	5409	HB3	ARG	X	360	62.122	41.063	59.303	0.00	0.00
ATOM	5410	CG	ARG	X	360	61.444	41.743	61.255	0.00	0.00
ATOM	5411	HG2	ARG	X	360	60.508	42.157	60.882	0.00	0.00
ATOM	5412	HG3	ARG	X	360	61.247	41.242	62.203	0.00	0.00
ATOM	5413	CD	ARG	X	360	62.402	42.848	61.586	0.00	0.00
ATOM	5414	HD2	ARG	X	360	61.956	43.711	62.081	0.00	0.00
ATOM	5415	HD3	ARG	X	360	63.150	42.542	62.317	0.00	0.00
ATOM	5416	NE	ARG	X	360	63.087	43.341	60.389	0.00	0.00
ATOM	5417	HE	ARG	X	360	62.548	44.018	59.868	0.00	0.00
ATOM	5418	CZ	ARG	X	360	64.217	42.923	59.801	0.00	0.00
ATOM	5419	NH1	ARG	X	360	64.963	41.986	60.403	0.00	0.00
ATOM	5420	HH11	ARG	X	360	64.587	41.438	61.163	0.00	0.00
ATOM	5421	HH12	ARG	X	360	65.950	41.855	60.236	0.00	0.00
ATOM	5422	NH2	ARG	X	360	64.593	43.545	58.709	0.00	0.00
ATOM	5423	HH21	ARG	X	360	64.188	44.402	58.360	0.00	0.00
ATOM	5424	HH22	ARG	X	360	65.454	43.320	58.232	0.00	0.00
ATOM	5425	C	ARG	X	360	59.746	40.402	58.827	0.00	0.00
ATOM	5426	O	ARG	X	360	58.553	40.700	59.059	0.00	0.00
ATOM	5427	N	VAL	X	361	60.323	40.475	57.599	0.00	0.00
ATOM	5428	H	VAL	X	361	61.295	40.201	57.577	0.00	0.00
ATOM	5429	CA	VAL	X	361	59.648	41.161	56.494	0.00	0.00
ATOM	5430	HA	VAL	X	361	59.297	42.137	56.829	0.00	0.00
ATOM	5431	CB	VAL	X	361	60.704	41.618	55.412	0.00	0.00
ATOM	5432	HB	VAL	X	361	60.281	42.310	54.683	0.00	0.00
ATOM	5433	CG1	VAL	X	361	61.774	42.533	56.145	0.00	0.00
ATOM	5434	HG11	VAL	X	361	61.249	43.310	56.703	0.00	0.00
ATOM	5435	HG12	VAL	X	361	62.304	41.974	56.916	0.00	0.00
ATOM	5436	HG13	VAL	X	361	62.415	43.051	55.432	0.00	0.00
ATOM	5437	CG2	VAL	X	361	61.383	40.555	54.601	0.00	0.00
ATOM	5438	HG21	VAL	X	361	60.699	39.751	54.330	0.00	0.00
ATOM	5439	HG22	VAL	X	361	62.171	40.172	55.250	0.00	0.00
ATOM	5440	HG23	VAL	X	361	61.800	41.103	53.756	0.00	0.00
ATOM	5441	C	VAL	X	361	58.529	40.446	55.838	0.00	0.00
ATOM	5442	O	VAL	X	361	57.659	40.981	55.122	0.00	0.00
ATOM	5443	N	GLY	X	362	58.424	39.159	56.064	0.00	0.00
ATOM	5444	H	GLY	X	362	59.217	38.741	56.530	0.00	0.00
ATOM	5445	CA	GLY	X	362	57.441	38.164	55.636	0.00	0.00

ATOM	5446	HA2	GLY	X	362	57.142	38.314	54.598	0.00	0.00
ATOM	5447	HA3	GLY	X	362	57.899	37.178	55.715	0.00	0.00
ATOM	5448	C	GLY	X	362	56.160	38.062	56.485	0.00	0.00
ATOM	5449	O	GLY	X	362	55.125	37.414	55.991	0.00	0.00
ATOM	5450	N	VAL	X	363	56.207	38.641	57.715	0.00	0.00
ATOM	5451	H	VAL	X	363	57.104	38.959	58.052	0.00	0.00
ATOM	5452	CA	VAL	X	363	55.011	38.817	58.524	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.172	38.484	57.914	0.00	0.00
ATOM	5454	CB	VAL	X	363	55.151	37.848	59.719	0.00	0.00
ATOM	5455	HB	VAL	X	363	55.900	38.222	60.417	0.00	0.00
ATOM	5456	CG1	VAL	X	363	53.749	37.760	60.502	0.00	0.00
ATOM	5457	HG11	VAL	X	363	53.745	37.167	61.416	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.431	38.787	60.687	0.00	0.00
ATOM	5459	HG13	VAL	X	363	53.068	37.365	59.748	0.00	0.00
ATOM	5460	CG2	VAL	X	363	55.594	36.416	59.318	0.00	0.00
ATOM	5461	HG21	VAL	X	363	54.985	36.038	58.497	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.489	35.746	60.172	0.00	0.00
ATOM	5463	HG23	VAL	X	363	56.552	36.321	58.806	0.00	0.00
ATOM	5464	C	VAL	X	363	54.754	40.264	58.949	0.00	0.00
ATOM	5465	O	VAL	X	363	55.674	40.990	59.322	0.00	0.00
ATOM	5466	N	PRO	X	364	53.506	40.800	58.822	0.00	0.00
ATOM	5467	CD	PRO	X	364	52.331	40.065	58.308	0.00	0.00
ATOM	5468	HD2	PRO	X	364	52.147	39.182	58.920	0.00	0.00
ATOM	5469	HD3	PRO	X	364	52.416	39.745	57.270	0.00	0.00
ATOM	5470	CG	PRO	X	364	51.148	41.025	58.447	0.00	0.00
ATOM	5471	HG2	PRO	X	364	50.503	40.848	59.308	0.00	0.00
ATOM	5472	HG3	PRO	X	364	50.556	40.882	57.544	0.00	0.00
ATOM	5473	CB	PRO	X	364	51.821	42.399	58.610	0.00	0.00
ATOM	5474	HB2	PRO	X	364	51.175	43.024	59.227	0.00	0.00
ATOM	5475	HB3	PRO	X	364	52.044	42.854	57.645	0.00	0.00
ATOM	5476	CA	PRO	X	364	53.118	42.076	59.375	0.00	0.00
ATOM	5477	HA	PRO	X	364	53.886	42.816	59.148	0.00	0.00
ATOM	5478	C	PRO	X	364	52.951	41.972	60.921	0.00	0.00
ATOM	5479	O	PRO	X	364	52.501	40.911	61.427	0.00	0.00
ATOM	5480	N	GLN	X	365	53.347	43.010	61.607	0.00	0.00
ATOM	5481	H	GLN	X	365	53.793	43.787	61.140	0.00	0.00
ATOM	5482	CA	GLN	X	365	53.314	43.253	63.081	0.00	0.00
ATOM	5483	HA	GLN	X	365	53.404	44.333	63.201	0.00	0.00
ATOM	5484	CB	GLN	X	365	51.882	43.006	63.601	0.00	0.00
ATOM	5485	HB2	GLN	X	365	51.614	41.951	63.552	0.00	0.00
ATOM	5486	HB3	GLN	X	365	51.946	43.157	64.678	0.00	0.00
ATOM	5487	CG	GLN	X	365	50.702	43.779	62.911	0.00	0.00
ATOM	5488	HG2	GLN	X	365	51.093	44.782	62.740	0.00	0.00
ATOM	5489	HG3	GLN	X	365	50.474	43.312	61.952	0.00	0.00
ATOM	5490	CD	GLN	X	365	49.528	43.880	63.885	0.00	0.00
ATOM	5491	OE1	GLN	X	365	48.861	42.938	64.206	0.00	0.00
ATOM	5492	NE2	GLN	X	365	49.264	45.074	64.379	0.00	0.00
ATOM	5493	HE21	GLN	X	365	48.366	45.298	64.782	0.00	0.00
ATOM	5494	HE22	GLN	X	365	49.911	45.832	64.213	0.00	0.00
ATOM	5495	C	GLN	X	365	54.456	42.576	63.847	0.00	0.00
ATOM	5496	O	GLN	X	365	54.790	43.002	64.887	0.00	0.00
ATOM	5497	N	VAL	X	366	55.159	41.584	63.226	0.00	0.00
ATOM	5498	H	VAL	X	366	54.779	41.239	62.356	0.00	0.00
ATOM	5499	CA	VAL	X	366	56.197	40.801	63.871	0.00	0.00
ATOM	5500	HA	VAL	X	366	55.948	40.652	64.922	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.246	39.390	63.234	0.00	0.00
ATOM	5502	HB	VAL	X	366	56.123	39.571	62.166	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.590	38.719	63.370	0.00	0.00
ATOM	5504	HG11	VAL	X	366	57.551	37.674	63.062	0.00	0.00
ATOM	5505	HG12	VAL	X	366	58.273	39.265	62.719	0.00	0.00
ATOM	5506	HG13	VAL	X	366	57.907	38.699	64.413	0.00	0.00
ATOM	5507	CG2	VAL	X	366	55.118	38.490	63.661	0.00	0.00
ATOM	5508	HG21	VAL	X	366	55.210	38.293	64.729	0.00	0.00
ATOM	5509	HG22	VAL	X	366	55.231	37.535	63.148	0.00	0.00
ATOM	5510	HG23	VAL	X	366	54.177	38.972	63.397	0.00	0.00
ATOM	5511	C	VAL	X	366	57.556	41.567	63.809	0.00	0.00
ATOM	5512	O	VAL	X	366	58.101	41.971	62.844	0.00	0.00

ATOM	5513	N	SER	X	367	57.990	41.849	65.010	0.00	0.00
ATOM	5514	H	SER	X	367	57.385	41.524	65.751	0.00	0.00
ATOM	5515	CA	SER	X	367	59.315	42.288	65.301	0.00	0.00
ATOM	5516	HA	SER	X	367	59.692	42.779	64.404	0.00	0.00
ATOM	5517	CB	SER	X	367	59.212	43.340	66.419	0.00	0.00
ATOM	5518	HB2	SER	X	367	60.107	43.950	66.540	0.00	0.00
ATOM	5519	HB3	SER	X	367	58.568	44.143	66.059	0.00	0.00
ATOM	5520	OG	SER	X	367	58.770	42.883	67.685	0.00	0.00
ATOM	5521	HG	SER	X	367	57.847	42.628	67.750	0.00	0.00
ATOM	5522	C	SER	X	367	60.251	41.154	65.667	0.00	0.00
ATOM	5523	O	SER	X	367	59.834	40.015	65.883	0.00	0.00
ATOM	5524	N	ASP	X	368	61.535	41.417	65.860	0.00	0.00
ATOM	5525	H	ASP	X	368	61.821	42.380	65.751	0.00	0.00
ATOM	5526	CA	ASP	X	368	62.652	40.410	65.816	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.677	39.977	64.816	0.00	0.00
ATOM	5528	CB	ASP	X	368	63.935	41.201	66.091	0.00	0.00
ATOM	5529	HB2	ASP	X	368	64.200	41.971	65.366	0.00	0.00
ATOM	5530	HB3	ASP	X	368	63.765	41.716	67.036	0.00	0.00
ATOM	5531	CG	ASP	X	368	65.237	40.346	66.091	0.00	0.00
ATOM	5532	OD1	ASP	X	368	65.640	39.779	67.134	0.00	0.00
ATOM	5533	OD2	ASP	X	368	65.901	40.294	65.072	0.00	0.00
ATOM	5534	C	ASP	X	368	62.535	39.223	66.846	0.00	0.00
ATOM	5535	O	ASP	X	368	62.663	38.032	66.579	0.00	0.00
ATOM	5536	N	LEU	X	369	62.220	39.652	68.065	0.00	0.00
ATOM	5537	H	LEU	X	369	61.974	40.613	68.255	0.00	0.00
ATOM	5538	CA	LEU	X	369	62.017	38.762	69.189	0.00	0.00
ATOM	5539	HA	LEU	X	369	62.866	38.128	69.446	0.00	0.00
ATOM	5540	CB	LEU	X	369	61.788	39.508	70.508	0.00	0.00
ATOM	5541	HB2	LEU	X	369	62.605	40.203	70.698	0.00	0.00
ATOM	5542	HB3	LEU	X	369	61.030	40.245	70.242	0.00	0.00
ATOM	5543	CG	LEU	X	369	61.540	38.745	71.862	0.00	0.00
ATOM	5544	HG	LEU	X	369	60.629	38.157	71.750	0.00	0.00
ATOM	5545	CD1	LEU	X	369	62.625	37.732	72.245	0.00	0.00
ATOM	5546	HD11	LEU	X	369	63.586	38.137	72.564	0.00	0.00
ATOM	5547	HD12	LEU	X	369	62.788	37.021	71.436	0.00	0.00
ATOM	5548	HD13	LEU	X	369	62.280	37.159	73.106	0.00	0.00
ATOM	5549	CD2	LEU	X	369	61.401	39.741	73.000	0.00	0.00
ATOM	5550	HD21	LEU	X	369	60.854	40.571	72.553	0.00	0.00
ATOM	5551	HD22	LEU	X	369	60.876	39.294	73.844	0.00	0.00
ATOM	5552	HD23	LEU	X	369	62.409	40.111	73.186	0.00	0.00
ATOM	5553	C	LEU	X	369	60.767	37.847	69.002	0.00	0.00
ATOM	5554	O	LEU	X	369	60.719	36.789	69.600	0.00	0.00
ATOM	5555	N	ALA	X	370	59.854	38.187	68.083	0.00	0.00
ATOM	5556	H	ALA	X	370	59.915	39.131	67.729	0.00	0.00
ATOM	5557	CA	ALA	X	370	58.769	37.296	67.646	0.00	0.00
ATOM	5558	HA	ALA	X	370	58.575	36.497	68.362	0.00	0.00
ATOM	5559	CB	ALA	X	370	57.494	38.088	67.495	0.00	0.00
ATOM	5560	HB1	ALA	X	370	56.706	37.479	67.052	0.00	0.00
ATOM	5561	HB2	ALA	X	370	57.598	38.941	66.824	0.00	0.00
ATOM	5562	HB3	ALA	X	370	57.198	38.466	68.474	0.00	0.00
ATOM	5563	C	ALA	X	370	59.140	36.607	66.386	0.00	0.00
ATOM	5564	O	ALA	X	370	58.862	35.402	66.208	0.00	0.00
ATOM	5565	N	ALA	X	371	59.927	37.214	65.493	0.00	0.00
ATOM	5566	H	ALA	X	371	59.926	38.222	65.560	0.00	0.00
ATOM	5567	CA	ALA	X	371	60.437	36.591	64.237	0.00	0.00
ATOM	5568	HA	ALA	X	371	59.600	36.165	63.684	0.00	0.00
ATOM	5569	CB	ALA	X	371	61.206	37.763	63.530	0.00	0.00
ATOM	5570	HB1	ALA	X	371	60.503	38.596	63.525	0.00	0.00
ATOM	5571	HB2	ALA	X	371	61.439	37.497	62.499	0.00	0.00
ATOM	5572	HB3	ALA	X	371	62.200	37.928	63.945	0.00	0.00
ATOM	5573	C	ALA	X	371	61.280	35.346	64.625	0.00	0.00
ATOM	5574	O	ALA	X	371	61.169	34.305	63.914	0.00	0.00
ATOM	5575	N	GLU	X	372	62.208	35.349	65.585	0.00	0.00
ATOM	5576	H	GLU	X	372	62.423	36.266	65.948	0.00	0.00
ATOM	5577	CA	GLU	X	372	62.990	34.207	66.004	0.00	0.00
ATOM	5578	HA	GLU	X	372	63.405	33.775	65.093	0.00	0.00
ATOM	5579	CB	GLU	X	372	64.133	34.547	66.933	0.00	0.00

ATOM	5580	HB2	GLU	X	372	64.759	33.715	67.256	0.00	0.00
ATOM	5581	HB3	GLU	X	372	64.792	35.253	66.426	0.00	0.00
ATOM	5582	CG	GLU	X	372	63.802	35.194	68.264	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.542	36.225	68.021	0.00	0.00
ATOM	5584	HG3	GLU	X	372	63.046	34.694	68.870	0.00	0.00
ATOM	5585	CD	GLU	X	372	65.063	35.227	69.215	0.00	0.00
ATOM	5586	OE1	GLU	X	372	65.489	34.176	69.736	0.00	0.00
ATOM	5587	OE2	GLU	X	372	65.790	36.264	69.216	0.00	0.00
ATOM	5588	C	GLU	X	372	62.077	33.132	66.598	0.00	0.00
ATOM	5589	O	GLU	X	372	62.428	31.929	66.479	0.00	0.00
ATOM	5590	N	ALA	X	373	60.870	33.458	67.098	0.00	0.00
ATOM	5591	H	ALA	X	373	60.552	34.417	67.112	0.00	0.00
ATOM	5592	CA	ALA	X	373	59.917	32.422	67.534	0.00	0.00
ATOM	5593	HA	ALA	X	373	60.538	31.631	67.954	0.00	0.00
ATOM	5594	CB	ALA	X	373	59.200	33.023	68.741	0.00	0.00
ATOM	5595	HB1	ALA	X	373	58.345	32.408	69.023	0.00	0.00
ATOM	5596	HB2	ALA	X	373	58.796	34.021	68.567	0.00	0.00
ATOM	5597	HB3	ALA	X	373	59.870	32.981	69.600	0.00	0.00
ATOM	5598	C	ALA	X	373	59.189	31.798	66.311	0.00	0.00
ATOM	5599	O	ALA	X	373	58.935	30.612	66.273	0.00	0.00
ATOM	5600	N	VAL	X	374	58.880	32.596	65.256	0.00	0.00
ATOM	5601	H	VAL	X	374	58.999	33.593	65.368	0.00	0.00
ATOM	5602	CA	VAL	X	374	58.344	32.128	63.934	0.00	0.00
ATOM	5603	HA	VAL	X	374	57.524	31.450	64.171	0.00	0.00
ATOM	5604	CB	VAL	X	374	57.808	33.279	63.078	0.00	0.00
ATOM	5605	HB	VAL	X	374	58.635	33.978	62.949	0.00	0.00
ATOM	5606	CG1	VAL	X	374	57.508	32.821	61.619	0.00	0.00
ATOM	5607	HG11	VAL	X	374	56.950	33.632	61.151	0.00	0.00
ATOM	5608	HG12	VAL	X	374	58.421	32.507	61.113	0.00	0.00
ATOM	5609	HG13	VAL	X	374	56.760	32.047	61.789	0.00	0.00
ATOM	5610	CG2	VAL	X	374	56.621	34.013	63.705	0.00	0.00
ATOM	5611	HG21	VAL	X	374	56.786	34.460	64.685	0.00	0.00
ATOM	5612	HG22	VAL	X	374	55.724	33.414	63.857	0.00	0.00
ATOM	5613	HG23	VAL	X	374	56.288	34.830	63.065	0.00	0.00
ATOM	5614	C	VAL	X	374	59.429	31.315	63.227	0.00	0.00
ATOM	5615	O	VAL	X	374	59.087	30.338	62.595	0.00	0.00
ATOM	5616	N	VAL	X	375	60.697	31.689	63.258	0.00	0.00
ATOM	5617	H	VAL	X	375	60.927	32.597	63.635	0.00	0.00
ATOM	5618	CA	VAL	X	375	61.804	30.782	62.801	0.00	0.00
ATOM	5619	HA	VAL	X	375	61.537	30.499	61.782	0.00	0.00
ATOM	5620	CB	VAL	X	375	63.075	31.519	62.822	0.00	0.00
ATOM	5621	HB	VAL	X	375	63.163	31.978	63.807	0.00	0.00
ATOM	5622	CG1	VAL	X	375	64.436	30.692	62.728	0.00	0.00
ATOM	5623	HG11	VAL	X	375	64.454	30.192	61.760	0.00	0.00
ATOM	5624	HG12	VAL	X	375	65.267	31.395	62.799	0.00	0.00
ATOM	5625	HG13	VAL	X	375	64.443	29.995	63.566	0.00	0.00
ATOM	5626	CG2	VAL	X	375	63.119	32.670	61.818	0.00	0.00
ATOM	5627	HG21	VAL	X	375	62.943	32.239	60.833	0.00	0.00
ATOM	5628	HG22	VAL	X	375	64.100	33.144	61.784	0.00	0.00
ATOM	5629	HG23	VAL	X	375	62.329	33.420	61.823	0.00	0.00
ATOM	5630	C	VAL	X	375	61.966	29.466	63.557	0.00	0.00
ATOM	5631	O	VAL	X	375	62.147	28.453	62.923	0.00	0.00
ATOM	5632	N	LEU	X	376	61.831	29.530	64.915	0.00	0.00
ATOM	5633	H	LEU	X	376	61.853	30.430	65.373	0.00	0.00
ATOM	5634	CA	LEU	X	376	61.794	28.315	65.661	0.00	0.00
ATOM	5635	HA	LEU	X	376	62.708	27.775	65.413	0.00	0.00
ATOM	5636	CB	LEU	X	376	61.675	28.597	67.203	0.00	0.00
ATOM	5637	HB2	LEU	X	376	62.172	29.563	67.293	0.00	0.00
ATOM	5638	HB3	LEU	X	376	60.615	28.660	67.448	0.00	0.00
ATOM	5639	CG	LEU	X	376	62.253	27.558	68.205	0.00	0.00
ATOM	5640	HG	LEU	X	376	62.307	27.965	69.214	0.00	0.00
ATOM	5641	CD1	LEU	X	376	61.401	26.294	68.291	0.00	0.00
ATOM	5642	HD11	LEU	X	376	60.407	26.558	68.651	0.00	0.00
ATOM	5643	HD12	LEU	X	376	61.735	25.680	69.127	0.00	0.00
ATOM	5644	HD13	LEU	X	376	61.352	25.746	67.350	0.00	0.00
ATOM	5645	CD2	LEU	X	376	63.727	27.057	68.045	0.00	0.00
ATOM	5646	HD21	LEU	X	376	63.968	26.579	68.994	0.00	0.00

ATOM	5647	HD22	LEU	X	376	63.816	26.188	67.394	0.00	0.00
ATOM	5648	HD23	LEU	X	376	64.521	27.769	67.819	0.00	0.00
ATOM	5649	C	LEU	X	376	60.648	27.340	65.184	0.00	0.00
ATOM	5650	O	LEU	X	376	60.874	26.168	64.871	0.00	0.00
ATOM	5651	N	HIE	X	377	59.400	27.807	65.083	0.00	0.00
ATOM	5652	H	HIE	X	377	59.279	28.783	65.313	0.00	0.00
ATOM	5653	CA	HIE	X	377	58.280	27.058	64.409	0.00	0.00
ATOM	5654	HA	HIE	X	377	57.934	26.353	65.165	0.00	0.00
ATOM	5655	CB	HIE	X	377	57.127	28.031	64.239	0.00	0.00
ATOM	5656	HB2	HIE	X	377	56.826	28.439	65.204	0.00	0.00
ATOM	5657	HB3	HIE	X	377	57.417	28.869	63.605	0.00	0.00
ATOM	5658	CG	HIE	X	377	55.944	27.409	63.674	0.00	0.00
ATOM	5659	ND1	HIE	X	377	55.222	26.340	64.291	0.00	0.00
ATOM	5660	CE1	HIE	X	377	54.288	25.992	63.451	0.00	0.00
ATOM	5661	HE1	HIE	X	377	53.644	25.176	63.744	0.00	0.00
ATOM	5662	NE2	HIE	X	377	54.443	26.584	62.200	0.00	0.00
ATOM	5663	HE2	HIE	X	377	53.913	26.342	61.375	0.00	0.00
ATOM	5664	CD2	HIE	X	377	55.437	27.558	62.383	0.00	0.00
ATOM	5665	HD2	HIE	X	377	55.828	28.245	61.647	0.00	0.00
ATOM	5666	C	HIE	X	377	58.624	26.432	62.977	0.00	0.00
ATOM	5667	O	HIE	X	377	58.141	25.388	62.583	0.00	0.00
ATOM	5668	N	TYR	X	378	59.453	27.081	62.240	0.00	0.00
ATOM	5669	H	TYR	X	378	59.926	27.881	62.636	0.00	0.00
ATOM	5670	CA	TYR	X	378	59.953	26.553	60.995	0.00	0.00
ATOM	5671	HA	TYR	X	378	59.334	25.794	60.517	0.00	0.00
ATOM	5672	CB	TYR	X	378	59.889	27.652	59.973	0.00	0.00
ATOM	5673	HB2	TYR	X	378	60.307	28.619	60.255	0.00	0.00
ATOM	5674	HB3	TYR	X	378	60.468	27.349	59.100	0.00	0.00
ATOM	5675	CG	TYR	X	378	58.505	27.905	59.351	0.00	0.00
ATOM	5676	CD1	TYR	X	378	58.094	26.888	58.478	0.00	0.00
ATOM	5677	HD1	TYR	X	378	58.825	26.177	58.122	0.00	0.00
ATOM	5678	CE1	TYR	X	378	56.832	27.066	57.810	0.00	0.00
ATOM	5679	HE1	TYR	X	378	56.440	26.379	57.074	0.00	0.00
ATOM	5680	CZ	TYR	X	378	56.013	28.121	58.172	0.00	0.00
ATOM	5681	OH	TYR	X	378	54.797	28.273	57.575	0.00	0.00
ATOM	5682	HH	TYR	X	378	54.531	27.550	57.002	0.00	0.00
ATOM	5683	CE2	TYR	X	378	56.463	29.141	59.089	0.00	0.00
ATOM	5684	HE2	TYR	X	378	55.820	30.005	59.164	0.00	0.00
ATOM	5685	CD2	TYR	X	378	57.703	29.021	59.699	0.00	0.00
ATOM	5686	HD2	TYR	X	378	58.120	29.756	60.373	0.00	0.00
ATOM	5687	C	TYR	X	378	61.360	25.899	61.024	0.00	0.00
ATOM	5688	O	TYR	X	378	61.974	25.692	60.006	0.00	0.00
ATOM	5689	N	THR	X	379	61.906	25.598	62.252	0.00	0.00
ATOM	5690	H	THR	X	379	61.444	25.917	63.092	0.00	0.00
ATOM	5691	CA	THR	X	379	63.312	25.115	62.316	0.00	0.00
ATOM	5692	HA	THR	X	379	63.865	25.323	61.400	0.00	0.00
ATOM	5693	CB	THR	X	379	64.168	25.643	63.472	0.00	0.00
ATOM	5694	HB	THR	X	379	63.640	25.491	64.413	0.00	0.00
ATOM	5695	CG2	THR	X	379	65.578	25.019	63.607	0.00	0.00
ATOM	5696	HG21	THR	X	379	66.216	25.531	64.327	0.00	0.00
ATOM	5697	HG22	THR	X	379	65.967	25.068	62.590	0.00	0.00
ATOM	5698	HG23	THR	X	379	65.485	23.984	63.936	0.00	0.00
ATOM	5699	OG1	THR	X	379	64.325	26.961	63.063	0.00	0.00
ATOM	5700	HG1	THR	X	379	63.510	27.442	63.222	0.00	0.00
ATOM	5701	C	THR	X	379	63.345	23.636	62.366	0.00	0.00
ATOM	5702	O	THR	X	379	62.855	23.075	63.284	0.00	0.00
ATOM	5703	N	ASP	X	380	63.877	23.014	61.282	0.00	0.00
ATOM	5704	H	ASP	X	380	64.247	23.652	60.593	0.00	0.00
ATOM	5705	CA	ASP	X	380	63.978	21.582	61.129	0.00	0.00
ATOM	5706	HA	ASP	X	380	63.235	21.076	61.746	0.00	0.00
ATOM	5707	CB	ASP	X	380	63.697	21.142	59.664	0.00	0.00
ATOM	5708	HB2	ASP	X	380	62.788	21.638	59.322	0.00	0.00
ATOM	5709	HB3	ASP	X	380	64.555	21.444	59.064	0.00	0.00
ATOM	5710	CG	ASP	X	380	63.690	19.599	59.499	0.00	0.00
ATOM	5711	OD1	ASP	X	380	63.555	19.091	58.377	0.00	0.00
ATOM	5712	OD2	ASP	X	380	63.757	18.875	60.464	0.00	0.00
ATOM	5713	C	ASP	X	380	65.327	21.097	61.767	0.00	0.00

ATOM	5714	O	ASP	X	380	66.384	21.293	61.161	0.00	0.00
ATOM	5715	N	TRP	X	381	65.159	20.288	62.802	0.00	0.00
ATOM	5716	H	TRP	X	381	64.238	20.232	63.213	0.00	0.00
ATOM	5717	CA	TRP	X	381	66.153	19.612	63.466	0.00	0.00
ATOM	5718	HA	TRP	X	381	66.898	20.323	63.824	0.00	0.00
ATOM	5719	CB	TRP	X	381	65.648	19.105	64.839	0.00	0.00
ATOM	5720	HB2	TRP	X	381	65.033	18.205	64.821	0.00	0.00
ATOM	5721	HB3	TRP	X	381	66.538	18.835	65.408	0.00	0.00
ATOM	5722	CG	TRP	X	381	64.983	20.154	65.707	0.00	0.00
ATOM	5723	CD1	TRP	X	381	63.617	20.042	66.012	0.00	0.00
ATOM	5724	HD1	TRP	X	381	62.923	19.294	65.661	0.00	0.00
ATOM	5725	NE1	TRP	X	381	63.205	21.173	66.671	0.00	0.00
ATOM	5726	HE1	TRP	X	381	62.246	21.449	66.821	0.00	0.00
ATOM	5727	CE2	TRP	X	381	64.318	21.980	66.992	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	64.404	23.165	67.775	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	63.471	23.499	68.204	0.00	0.00
ATOM	5730	CH2	TRP	X	381	65.679	23.749	67.998	0.00	0.00
ATOM	5731	HH2	TRP	X	381	65.754	24.634	68.613	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	66.798	23.110	67.460	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	67.797	23.435	67.709	0.00	0.00
ATOM	5734	CE3	TRP	X	381	66.717	21.945	66.666	0.00	0.00
ATOM	5735	HE3	TRP	X	381	67.555	21.550	66.111	0.00	0.00
ATOM	5736	CD2	TRP	X	381	65.487	21.327	66.432	0.00	0.00
ATOM	5737	C	TRP	X	381	66.847	18.499	62.628	0.00	0.00
ATOM	5738	O	TRP	X	381	67.824	17.946	63.085	0.00	0.00
ATOM	5739	N	LEU	X	382	66.385	18.194	61.372	0.00	0.00
ATOM	5740	H	LEU	X	382	65.550	18.716	61.147	0.00	0.00
ATOM	5741	CA	LEU	X	382	67.082	17.448	60.338	0.00	0.00
ATOM	5742	HA	LEU	X	382	67.388	16.526	60.832	0.00	0.00
ATOM	5743	CB	LEU	X	382	66.204	17.357	58.999	0.00	0.00
ATOM	5744	HB2	LEU	X	382	65.318	16.834	59.361	0.00	0.00
ATOM	5745	HB3	LEU	X	382	65.863	18.305	58.585	0.00	0.00
ATOM	5746	CG	LEU	X	382	66.641	16.571	57.756	0.00	0.00
ATOM	5747	HG	LEU	X	382	65.822	16.473	57.043	0.00	0.00
ATOM	5748	CD1	LEU	X	382	67.806	17.237	56.990	0.00	0.00
ATOM	5749	HD11	LEU	X	382	68.686	17.370	57.619	0.00	0.00
ATOM	5750	HD12	LEU	X	382	67.558	18.229	56.612	0.00	0.00
ATOM	5751	HD13	LEU	X	382	68.111	16.745	56.066	0.00	0.00
ATOM	5752	CD2	LEU	X	382	67.013	15.102	58.086	0.00	0.00
ATOM	5753	HD21	LEU	X	382	67.883	15.122	58.743	0.00	0.00
ATOM	5754	HD22	LEU	X	382	66.272	14.550	58.665	0.00	0.00
ATOM	5755	HD23	LEU	X	382	67.493	14.554	57.275	0.00	0.00
ATOM	5756	C	LEU	X	382	68.478	18.062	60.136	0.00	0.00
ATOM	5757	O	LEU	X	382	69.535	17.458	60.383	0.00	0.00
ATOM	5758	N	HIE	X	383	68.490	19.365	59.850	0.00	0.00
ATOM	5759	H	HIE	X	383	67.561	19.747	59.747	0.00	0.00
ATOM	5760	CA	HIE	X	383	69.620	20.192	59.570	0.00	0.00
ATOM	5761	HA	HIE	X	383	70.373	19.883	60.295	0.00	0.00
ATOM	5762	CB	HIE	X	383	70.204	19.816	58.172	0.00	0.00
ATOM	5763	HB2	HIE	X	383	70.430	18.753	58.091	0.00	0.00
ATOM	5764	HB3	HIE	X	383	69.522	20.132	57.382	0.00	0.00
ATOM	5765	CG	HIE	X	383	71.552	20.542	57.824	0.00	0.00
ATOM	5766	ND1	HIE	X	383	72.265	21.464	58.612	0.00	0.00
ATOM	5767	CE1	HIE	X	383	73.455	21.514	58.016	0.00	0.00
ATOM	5768	HE1	HIE	X	383	74.317	22.125	58.240	0.00	0.00
ATOM	5769	NE2	HIE	X	383	73.610	20.673	57.019	0.00	0.00
ATOM	5770	HE2	HIE	X	383	74.432	20.673	56.432	0.00	0.00
ATOM	5771	CD2	HIE	X	383	72.358	20.146	56.808	0.00	0.00
ATOM	5772	HD2	HIE	X	383	72.166	19.522	55.948	0.00	0.00
ATOM	5773	C	HIE	X	383	69.266	21.715	59.713	0.00	0.00
ATOM	5774	O	HIE	X	383	68.645	22.265	58.781	0.00	0.00
ATOM	5775	N	PRO	X	384	69.561	22.356	60.871	0.00	0.00
ATOM	5776	CD	PRO	X	384	70.327	21.864	62.020	0.00	0.00
ATOM	5777	HD2	PRO	X	384	71.348	22.142	61.761	0.00	0.00
ATOM	5778	HD3	PRO	X	384	70.314	20.812	62.306	0.00	0.00
ATOM	5779	CG	PRO	X	384	69.851	22.690	63.176	0.00	0.00
ATOM	5780	HG2	PRO	X	384	70.727	23.045	63.720	0.00	0.00

ATOM	5781	HG3	PRO	X	384	69.187	22.065	63.773	0.00	0.00
ATOM	5782	CB	PRO	X	384	69.151	23.937	62.596	0.00	0.00
ATOM	5783	HB2	PRO	X	384	69.824	24.793	62.653	0.00	0.00
ATOM	5784	HB3	PRO	X	384	68.214	24.216	63.080	0.00	0.00
ATOM	5785	CA	PRO	X	384	68.858	23.518	61.174	0.00	0.00
ATOM	5786	HA	PRO	X	384	67.793	23.325	61.049	0.00	0.00
ATOM	5787	C	PRO	X	384	69.209	24.678	60.245	0.00	0.00
ATOM	5788	O	PRO	X	384	68.488	25.649	60.214	0.00	0.00
ATOM	5789	N	GLU	X	385	70.301	24.499	59.441	0.00	0.00
ATOM	5790	H	GLU	X	385	70.802	23.626	59.532	0.00	0.00
ATOM	5791	CA	GLU	X	385	70.921	25.547	58.655	0.00	0.00
ATOM	5792	HA	GLU	X	385	70.286	26.423	58.790	0.00	0.00
ATOM	5793	CB	GLU	X	385	72.293	25.992	59.105	0.00	0.00
ATOM	5794	HB2	GLU	X	385	72.684	26.776	58.456	0.00	0.00
ATOM	5795	HB3	GLU	X	385	72.251	26.470	60.083	0.00	0.00
ATOM	5796	CG	GLU	X	385	73.394	24.909	59.262	0.00	0.00
ATOM	5797	HG2	GLU	X	385	73.273	24.294	60.154	0.00	0.00
ATOM	5798	HG3	GLU	X	385	73.344	24.249	58.396	0.00	0.00
ATOM	5799	CD	GLU	X	385	74.782	25.506	59.211	0.00	0.00
ATOM	5800	OE1	GLU	X	385	75.193	25.793	58.110	0.00	0.00
ATOM	5801	OE2	GLU	X	385	75.518	25.514	60.242	0.00	0.00
ATOM	5802	C	GLU	X	385	70.886	25.299	57.133	0.00	0.00
ATOM	5803	O	GLU	X	385	71.610	25.920	56.340	0.00	0.00
ATOM	5804	N	ASP	X	386	70.135	24.305	56.693	0.00	0.00
ATOM	5805	H	ASP	X	386	69.561	23.747	57.309	0.00	0.00
ATOM	5806	CA	ASP	X	386	70.137	23.873	55.317	0.00	0.00
ATOM	5807	HA	ASP	X	386	71.164	23.627	55.047	0.00	0.00
ATOM	5808	CB	ASP	X	386	69.405	22.539	55.251	0.00	0.00
ATOM	5809	HB2	ASP	X	386	69.890	21.815	55.905	0.00	0.00
ATOM	5810	HB3	ASP	X	386	68.358	22.598	55.548	0.00	0.00
ATOM	5811	CG	ASP	X	386	69.514	22.106	53.833	0.00	0.00
ATOM	5812	OD1	ASP	X	386	68.449	22.272	53.104	0.00	0.00
ATOM	5813	OD2	ASP	X	386	70.677	21.745	53.376	0.00	0.00
ATOM	5814	C	ASP	X	386	69.617	24.961	54.309	0.00	0.00
ATOM	5815	O	ASP	X	386	68.393	25.184	54.386	0.00	0.00
ATOM	5816	N	PRO	X	387	70.406	25.575	53.413	0.00	0.00
ATOM	5817	CD	PRO	X	387	71.810	25.243	53.169	0.00	0.00
ATOM	5818	HD2	PRO	X	387	72.058	24.223	52.877	0.00	0.00
ATOM	5819	HD3	PRO	X	387	72.421	25.543	54.020	0.00	0.00
ATOM	5820	CG	PRO	X	387	72.151	26.207	51.991	0.00	0.00
ATOM	5821	HG2	PRO	X	387	71.784	25.687	51.106	0.00	0.00
ATOM	5822	HG3	PRO	X	387	73.227	26.362	51.918	0.00	0.00
ATOM	5823	CB	PRO	X	387	71.268	27.441	52.186	0.00	0.00
ATOM	5824	HB2	PRO	X	387	71.189	27.852	51.179	0.00	0.00
ATOM	5825	HB3	PRO	X	387	71.743	28.066	52.942	0.00	0.00
ATOM	5826	CA	PRO	X	387	69.942	26.854	52.788	0.00	0.00
ATOM	5827	HA	PRO	X	387	69.589	27.438	53.638	0.00	0.00
ATOM	5828	C	PRO	X	387	68.846	26.858	51.776	0.00	0.00
ATOM	5829	O	PRO	X	387	68.074	27.850	51.742	0.00	0.00
ATOM	5830	N	ALA	X	388	68.620	25.726	51.079	0.00	0.00
ATOM	5831	H	ALA	X	388	69.269	24.959	51.180	0.00	0.00
ATOM	5832	CA	ALA	X	388	67.493	25.524	50.288	0.00	0.00
ATOM	5833	HA	ALA	X	388	67.246	26.414	49.710	0.00	0.00
ATOM	5834	CB	ALA	X	388	67.654	24.283	49.340	0.00	0.00
ATOM	5835	HB1	ALA	X	388	68.230	24.525	48.446	0.00	0.00
ATOM	5836	HB2	ALA	X	388	66.687	23.794	49.217	0.00	0.00
ATOM	5837	HB3	ALA	X	388	68.184	23.463	49.825	0.00	0.00
ATOM	5838	C	ALA	X	388	66.304	25.233	51.122	0.00	0.00
ATOM	5839	O	ALA	X	388	65.223	25.736	50.753	0.00	0.00
ATOM	5840	N	ARG	X	389	66.335	24.574	52.300	0.00	0.00
ATOM	5841	H	ARG	X	389	67.197	24.076	52.467	0.00	0.00
ATOM	5842	CA	ARG	X	389	65.211	24.251	53.204	0.00	0.00
ATOM	5843	HA	ARG	X	389	64.323	23.914	52.670	0.00	0.00
ATOM	5844	CB	ARG	X	389	65.661	23.122	54.146	0.00	0.00
ATOM	5845	HB2	ARG	X	389	65.968	22.334	53.458	0.00	0.00
ATOM	5846	HB3	ARG	X	389	66.546	23.440	54.696	0.00	0.00
ATOM	5847	CG	ARG	X	389	64.602	22.560	55.085	0.00	0.00

ATOM	5848	HG2	ARG	X	389	64.435	23.341	55.827	0.00	0.00
ATOM	5849	HG3	ARG	X	389	63.703	22.316	54.519	0.00	0.00
ATOM	5850	CD	ARG	X	389	64.838	21.238	55.884	0.00	0.00
ATOM	5851	HD2	ARG	X	389	65.599	21.356	56.656	0.00	0.00
ATOM	5852	HD3	ARG	X	389	63.964	21.026	56.501	0.00	0.00
ATOM	5853	NE	ARG	X	389	65.244	20.069	55.037	0.00	0.00
ATOM	5854	HE	ARG	X	389	65.997	20.142	54.368	0.00	0.00
ATOM	5855	CZ	ARG	X	389	64.611	18.905	54.888	0.00	0.00
ATOM	5856	NH1	ARG	X	389	63.896	18.349	55.811	0.00	0.00
ATOM	5857	HH11	ARG	X	389	63.682	18.793	56.693	0.00	0.00
ATOM	5858	HH12	ARG	X	389	63.264	17.631	55.487	0.00	0.00
ATOM	5859	NH2	ARG	X	389	64.602	18.405	53.687	0.00	0.00
ATOM	5860	HH21	ARG	X	389	65.137	18.945	53.021	0.00	0.00
ATOM	5861	HH22	ARG	X	389	64.108	17.558	53.447	0.00	0.00
ATOM	5862	C	ARG	X	389	64.783	25.472	53.981	0.00	0.00
ATOM	5863	O	ARG	X	389	63.628	25.628	54.351	0.00	0.00
ATOM	5864	N	LEU	X	390	65.707	26.353	54.235	0.00	0.00
ATOM	5865	H	LEU	X	390	66.635	26.138	53.899	0.00	0.00
ATOM	5866	CA	LEU	X	390	65.483	27.640	54.798	0.00	0.00
ATOM	5867	HA	LEU	X	390	64.846	27.602	55.682	0.00	0.00
ATOM	5868	CB	LEU	X	390	66.795	28.283	55.244	0.00	0.00
ATOM	5869	HB2	LEU	X	390	67.562	28.178	54.477	0.00	0.00
ATOM	5870	HB3	LEU	X	390	66.599	29.340	55.426	0.00	0.00
ATOM	5871	CG	LEU	X	390	67.423	27.745	56.484	0.00	0.00
ATOM	5872	HG	LEU	X	390	67.452	26.659	56.393	0.00	0.00
ATOM	5873	CD1	LEU	X	390	68.815	28.236	56.520	0.00	0.00
ATOM	5874	HD11	LEU	X	390	69.430	27.908	57.358	0.00	0.00
ATOM	5875	HD12	LEU	X	390	68.786	29.325	56.552	0.00	0.00
ATOM	5876	HD13	LEU	X	390	69.343	27.951	55.609	0.00	0.00
ATOM	5877	CD2	LEU	X	390	66.570	28.003	57.754	0.00	0.00
ATOM	5878	HD21	LEU	X	390	67.142	28.135	58.672	0.00	0.00
ATOM	5879	HD22	LEU	X	390	65.877	28.833	57.614	0.00	0.00
ATOM	5880	HD23	LEU	X	390	65.996	27.096	57.944	0.00	0.00
ATOM	5881	C	LEU	X	390	64.746	28.555	53.835	0.00	0.00
ATOM	5882	O	LEU	X	390	63.629	29.068	54.113	0.00	0.00
ATOM	5883	N	ARG	X	391	65.130	28.650	52.559	0.00	0.00
ATOM	5884	H	ARG	X	391	66.021	28.269	52.274	0.00	0.00
ATOM	5885	CA	ARG	X	391	64.471	29.382	51.494	0.00	0.00
ATOM	5886	HA	ARG	X	391	64.431	30.424	51.812	0.00	0.00
ATOM	5887	CB	ARG	X	391	65.240	29.283	50.161	0.00	0.00
ATOM	5888	HB2	ARG	X	391	66.315	29.361	50.320	0.00	0.00
ATOM	5889	HB3	ARG	X	391	65.040	28.278	49.789	0.00	0.00
ATOM	5890	CG	ARG	X	391	64.882	30.287	49.068	0.00	0.00
ATOM	5891	HG2	ARG	X	391	63.826	30.558	49.052	0.00	0.00
ATOM	5892	HG3	ARG	X	391	65.521	31.170	49.089	0.00	0.00
ATOM	5893	CD	ARG	X	391	65.078	29.753	47.661	0.00	0.00
ATOM	5894	HD2	ARG	X	391	64.206	29.191	47.326	0.00	0.00
ATOM	5895	HD3	ARG	X	391	64.895	30.625	47.032	0.00	0.00
ATOM	5896	NE	ARG	X	391	66.320	29.117	47.291	0.00	0.00
ATOM	5897	HE	ARG	X	391	67.097	29.741	47.129	0.00	0.00
ATOM	5898	CZ	ARG	X	391	66.433	27.854	46.957	0.00	0.00
ATOM	5899	NH1	ARG	X	391	65.558	26.939	47.356	0.00	0.00
ATOM	5900	HH11	ARG	X	391	64.836	27.131	48.035	0.00	0.00
ATOM	5901	HH12	ARG	X	391	65.441	26.028	46.936	0.00	0.00
ATOM	5902	NH2	ARG	X	391	67.443	27.478	46.209	0.00	0.00
ATOM	5903	HH21	ARG	X	391	67.984	28.230	45.806	0.00	0.00
ATOM	5904	HH22	ARG	X	391	67.662	26.522	45.967	0.00	0.00
ATOM	5905	C	ARG	X	391	62.986	28.871	51.251	0.00	0.00
ATOM	5906	O	ARG	X	391	62.052	29.666	51.123	0.00	0.00
ATOM	5907	N	GLU	X	392	62.845	27.516	51.202	0.00	0.00
ATOM	5908	H	GLU	X	392	63.666	26.928	51.234	0.00	0.00
ATOM	5909	CA	GLU	X	392	61.518	26.894	50.967	0.00	0.00
ATOM	5910	HA	GLU	X	392	61.021	27.171	50.037	0.00	0.00
ATOM	5911	CB	GLU	X	392	61.773	25.393	50.993	0.00	0.00
ATOM	5912	HB2	GLU	X	392	62.442	25.203	50.154	0.00	0.00
ATOM	5913	HB3	GLU	X	392	62.212	25.072	51.938	0.00	0.00
ATOM	5914	CG	GLU	X	392	60.425	24.737	50.728	0.00	0.00

ATOM	5915	HG2	GLU	X	392	59.657	25.158	51.376	0.00	0.00
ATOM	5916	HG3	GLU	X	392	60.007	25.077	49.781	0.00	0.00
ATOM	5917	CD	GLU	X	392	60.377	23.232	50.789	0.00	0.00
ATOM	5918	OE1	GLU	X	392	60.986	22.548	49.906	0.00	0.00
ATOM	5919	OE2	GLU	X	392	59.901	22.628	51.831	0.00	0.00
ATOM	5920	C	GLU	X	392	60.560	27.422	52.096	0.00	0.00
ATOM	5921	O	GLU	X	392	59.428	27.817	51.806	0.00	0.00
ATOM	5922	N	ALA	X	393	61.021	27.398	53.346	0.00	0.00
ATOM	5923	H	ALA	X	393	61.934	26.990	53.487	0.00	0.00
ATOM	5924	CA	ALA	X	393	60.263	27.859	54.544	0.00	0.00
ATOM	5925	HA	ALA	X	393	59.390	27.210	54.614	0.00	0.00
ATOM	5926	CB	ALA	X	393	61.055	27.522	55.823	0.00	0.00
ATOM	5927	HB1	ALA	X	393	61.975	28.071	56.023	0.00	0.00
ATOM	5928	HB2	ALA	X	393	61.313	26.467	55.740	0.00	0.00
ATOM	5929	HB3	ALA	X	393	60.388	27.548	56.684	0.00	0.00
ATOM	5930	C	ALA	X	393	59.848	29.341	54.447	0.00	0.00
ATOM	5931	O	ALA	X	393	58.811	29.765	54.997	0.00	0.00
ATOM	5932	N	LEU	X	394	60.556	30.177	53.659	0.00	0.00
ATOM	5933	H	LEU	X	394	61.524	29.965	53.462	0.00	0.00
ATOM	5934	CA	LEU	X	394	60.127	31.544	53.539	0.00	0.00
ATOM	5935	HA	LEU	X	394	59.645	31.799	54.483	0.00	0.00
ATOM	5936	CB	LEU	X	394	61.299	32.525	53.330	0.00	0.00
ATOM	5937	HB2	LEU	X	394	62.111	32.161	53.958	0.00	0.00
ATOM	5938	HB3	LEU	X	394	61.690	32.495	52.313	0.00	0.00
ATOM	5939	CG	LEU	X	394	60.885	34.024	53.506	0.00	0.00
ATOM	5940	HG	LEU	X	394	60.100	34.183	52.767	0.00	0.00
ATOM	5941	CD1	LEU	X	394	60.513	34.350	54.982	0.00	0.00
ATOM	5942	HD11	LEU	X	394	59.556	33.865	55.178	0.00	0.00
ATOM	5943	HD12	LEU	X	394	60.317	35.410	55.146	0.00	0.00
ATOM	5944	HD13	LEU	X	394	61.343	33.973	55.580	0.00	0.00
ATOM	5945	CD2	LEU	X	394	62.080	34.973	53.327	0.00	0.00
ATOM	5946	HD21	LEU	X	394	62.676	34.908	52.416	0.00	0.00
ATOM	5947	HD22	LEU	X	394	61.797	36.018	53.448	0.00	0.00
ATOM	5948	HD23	LEU	X	394	62.766	34.852	54.165	0.00	0.00
ATOM	5949	C	LEU	X	394	59.034	31.744	52.480	0.00	0.00
ATOM	5950	O	LEU	X	394	58.049	32.502	52.721	0.00	0.00
ATOM	5951	N	SER	X	395	59.076	30.994	51.337	0.00	0.00
ATOM	5952	H	SER	X	395	59.926	30.469	51.187	0.00	0.00
ATOM	5953	CA	SER	X	395	57.958	30.860	50.390	0.00	0.00
ATOM	5954	HA	SER	X	395	57.705	31.866	50.053	0.00	0.00
ATOM	5955	CB	SER	X	395	58.263	29.848	49.264	0.00	0.00
ATOM	5956	HB2	SER	X	395	58.179	28.837	49.662	0.00	0.00
ATOM	5957	HB3	SER	X	395	57.521	29.952	48.473	0.00	0.00
ATOM	5958	OG	SER	X	395	59.539	30.080	48.712	0.00	0.00
ATOM	5959	HG	SER	X	395	59.705	29.353	48.106	0.00	0.00
ATOM	5960	C	SER	X	395	56.715	30.333	51.205	0.00	0.00
ATOM	5961	O	SER	X	395	55.623	30.677	50.885	0.00	0.00
ATOM	5962	N	ASP	X	396	56.938	29.310	52.058	0.00	0.00
ATOM	5963	H	ASP	X	396	57.858	28.905	51.961	0.00	0.00
ATOM	5964	CA	ASP	X	396	55.902	28.691	52.963	0.00	0.00
ATOM	5965	HA	ASP	X	396	55.101	28.245	52.374	0.00	0.00
ATOM	5966	CB	ASP	X	396	56.504	27.542	53.848	0.00	0.00
ATOM	5967	HB2	ASP	X	396	57.396	27.147	53.363	0.00	0.00
ATOM	5968	HB3	ASP	X	396	56.708	27.934	54.844	0.00	0.00
ATOM	5969	CG	ASP	X	396	55.473	26.416	54.083	0.00	0.00
ATOM	5970	OD1	ASP	X	396	54.818	26.332	55.173	0.00	0.00
ATOM	5971	OD2	ASP	X	396	55.285	25.609	53.129	0.00	0.00
ATOM	5972	C	ASP	X	396	55.319	29.771	53.864	0.00	0.00
ATOM	5973	O	ASP	X	396	54.101	29.981	53.733	0.00	0.00
ATOM	5974	N	VAL	X	397	56.176	30.547	54.584	0.00	0.00
ATOM	5975	H	VAL	X	397	57.119	30.187	54.628	0.00	0.00
ATOM	5976	CA	VAL	X	397	55.666	31.718	55.325	0.00	0.00
ATOM	5977	HA	VAL	X	397	55.114	31.358	56.192	0.00	0.00
ATOM	5978	CB	VAL	X	397	56.884	32.533	55.977	0.00	0.00
ATOM	5979	HB	VAL	X	397	57.748	32.730	55.342	0.00	0.00
ATOM	5980	CG1	VAL	X	397	56.445	33.903	56.485	0.00	0.00
ATOM	5981	HG11	VAL	X	397	56.279	34.538	55.614	0.00	0.00

ATOM	5982	HG12	VAL	X	397	55.492	33.925	57.013	0.00	0.00
ATOM	5983	HG13	VAL	X	397	57.263	34.425	56.980	0.00	0.00
ATOM	5984	CG2	VAL	X	397	57.352	31.864	57.303	0.00	0.00
ATOM	5985	HG21	VAL	X	397	58.215	32.399	57.698	0.00	0.00
ATOM	5986	HG22	VAL	X	397	57.586	30.800	57.269	0.00	0.00
ATOM	5987	HG23	VAL	X	397	56.662	31.938	58.143	0.00	0.00
ATOM	5988	C	VAL	X	397	54.729	32.600	54.376	0.00	0.00
ATOM	5989	O	VAL	X	397	53.583	32.825	54.710	0.00	0.00
ATOM	5990	N	VAL	X	398	55.257	33.056	53.237	0.00	0.00
ATOM	5991	H	VAL	X	398	56.238	32.848	53.116	0.00	0.00
ATOM	5992	CA	VAL	X	398	54.669	34.165	52.506	0.00	0.00
ATOM	5993	HA	VAL	X	398	54.370	34.906	53.249	0.00	0.00
ATOM	5994	CB	VAL	X	398	55.754	34.885	51.602	0.00	0.00
ATOM	5995	HB	VAL	X	398	56.124	34.115	50.925	0.00	0.00
ATOM	5996	CG1	VAL	X	398	55.167	35.973	50.742	0.00	0.00
ATOM	5997	HG11	VAL	X	398	54.591	36.624	51.400	0.00	0.00
ATOM	5998	HG12	VAL	X	398	56.013	36.456	50.254	0.00	0.00
ATOM	5999	HG13	VAL	X	398	54.622	35.566	49.890	0.00	0.00
ATOM	6000	CG2	VAL	X	398	56.879	35.519	52.417	0.00	0.00
ATOM	6001	HG21	VAL	X	398	56.608	36.432	52.947	0.00	0.00
ATOM	6002	HG22	VAL	X	398	57.680	35.916	51.793	0.00	0.00
ATOM	6003	HG23	VAL	X	398	57.295	34.820	53.142	0.00	0.00
ATOM	6004	C	VAL	X	398	53.446	33.708	51.678	0.00	0.00
ATOM	6005	O	VAL	X	398	52.636	34.516	51.190	0.00	0.00
ATOM	6006	N	GLY	X	399	53.272	32.366	51.552	0.00	0.00
ATOM	6007	H	GLY	X	399	53.874	31.676	51.978	0.00	0.00
ATOM	6008	CA	GLY	X	399	51.967	31.748	51.106	0.00	0.00
ATOM	6009	HA2	GLY	X	399	51.546	32.268	50.246	0.00	0.00
ATOM	6010	HA3	GLY	X	399	52.123	30.681	50.946	0.00	0.00
ATOM	6011	C	GLY	X	399	50.823	31.799	52.054	0.00	0.00
ATOM	6012	O	GLY	X	399	49.801	32.498	51.828	0.00	0.00
ATOM	6013	N	ASP	X	400	50.988	31.098	53.165	0.00	0.00
ATOM	6014	H	ASP	X	400	51.781	30.474	53.190	0.00	0.00
ATOM	6015	CA	ASP	X	400	50.045	30.711	54.193	0.00	0.00
ATOM	6016	HA	ASP	X	400	49.305	30.003	53.820	0.00	0.00
ATOM	6017	CB	ASP	X	400	50.792	29.969	55.303	0.00	0.00
ATOM	6018	HB2	ASP	X	400	51.655	30.514	55.685	0.00	0.00
ATOM	6019	HB3	ASP	X	400	50.168	29.846	56.189	0.00	0.00
ATOM	6020	CG	ASP	X	400	51.022	28.563	54.917	0.00	0.00
ATOM	6021	OD1	ASP	X	400	51.258	27.740	55.849	0.00	0.00
ATOM	6022	OD2	ASP	X	400	50.913	28.220	53.743	0.00	0.00
ATOM	6023	C	ASP	X	400	49.182	31.845	54.749	0.00	0.00
ATOM	6024	O	ASP	X	400	48.237	32.233	54.031	0.00	0.00
ATOM	6025	N	HIE	X	401	49.522	32.420	55.856	0.00	0.00
ATOM	6026	H	HIE	X	401	50.240	31.957	56.395	0.00	0.00
ATOM	6027	CA	HIE	X	401	48.823	33.560	56.448	0.00	0.00
ATOM	6028	HA	HIE	X	401	47.821	33.294	56.783	0.00	0.00
ATOM	6029	CB	HIE	X	401	49.560	33.961	57.729	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.015	34.588	58.436	0.00	0.00
ATOM	6031	HB3	HIE	X	401	49.925	33.121	58.318	0.00	0.00
ATOM	6032	CG	HIE	X	401	50.725	34.872	57.425	0.00	0.00
ATOM	6033	ND1	HIE	X	401	50.707	36.253	57.502	0.00	0.00
ATOM	6034	CE1	HIE	X	401	51.857	36.576	56.932	0.00	0.00
ATOM	6035	HE1	HIE	X	401	52.072	37.621	56.766	0.00	0.00
ATOM	6036	NE2	HIE	X	401	52.633	35.550	56.764	0.00	0.00
ATOM	6037	HE2	HIE	X	401	53.569	35.555	56.384	0.00	0.00
ATOM	6038	CD2	HIE	X	401	51.875	34.440	56.968	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.169	33.420	56.770	0.00	0.00
ATOM	6040	C	HIE	X	401	48.715	34.826	55.617	0.00	0.00
ATOM	6041	O	HIE	X	401	47.768	35.615	55.884	0.00	0.00
ATOM	6042	N	ASN	X	402	49.482	35.017	54.549	0.00	0.00
ATOM	6043	H	ASN	X	402	50.162	34.285	54.402	0.00	0.00
ATOM	6044	CA	ASN	X	402	49.417	36.060	53.567	0.00	0.00
ATOM	6045	HA	ASN	X	402	49.293	37.016	54.076	0.00	0.00
ATOM	6046	CB	ASN	X	402	50.752	36.274	52.907	0.00	0.00
ATOM	6047	HB2	ASN	X	402	51.390	35.408	53.083	0.00	0.00
ATOM	6048	HB3	ASN	X	402	50.625	36.456	51.840	0.00	0.00

ATOM	6049	CG	ASN	X	402	51.490	37.566	53.242	0.00	0.00
ATOM	6050	OD1	ASN	X	402	50.947	38.623	53.171	0.00	0.00
ATOM	6051	ND2	ASN	X	402	52.722	37.551	53.724	0.00	0.00
ATOM	6052	HD21	ASN	X	402	53.220	38.387	53.995	0.00	0.00
ATOM	6053	HD22	ASN	X	402	53.220	36.673	53.691	0.00	0.00
ATOM	6054	C	ASN	X	402	48.238	35.820	52.573	0.00	0.00
ATOM	6055	O	ASN	X	402	47.585	36.758	52.165	0.00	0.00
ATOM	6056	N	VAL	X	403	47.937	34.563	52.020	0.00	0.00
ATOM	6057	H	VAL	X	403	48.562	33.796	52.226	0.00	0.00
ATOM	6058	CA	VAL	X	403	46.824	34.312	51.090	0.00	0.00
ATOM	6059	HA	VAL	X	403	46.070	35.033	51.405	0.00	0.00
ATOM	6060	CB	VAL	X	403	47.284	34.692	49.658	0.00	0.00
ATOM	6061	HB	VAL	X	403	47.540	35.750	49.705	0.00	0.00
ATOM	6062	CG1	VAL	X	403	48.405	33.861	49.127	0.00	0.00
ATOM	6063	HG11	VAL	X	403	49.350	33.945	49.663	0.00	0.00
ATOM	6064	HG12	VAL	X	403	48.201	32.791	49.098	0.00	0.00
ATOM	6065	HG13	VAL	X	403	48.667	34.151	48.110	0.00	0.00
ATOM	6066	CG2	VAL	X	403	46.007	34.492	48.719	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.248	34.756	47.689	0.00	0.00
ATOM	6068	HG22	VAL	X	403	45.288	35.255	49.015	0.00	0.00
ATOM	6069	HG23	VAL	X	403	45.572	33.505	48.872	0.00	0.00
ATOM	6070	C	VAL	X	403	46.183	32.977	51.177	0.00	0.00
ATOM	6071	O	VAL	X	403	44.920	32.871	51.275	0.00	0.00
ATOM	6072	N	VAL	X	404	46.987	31.921	51.231	0.00	0.00
ATOM	6073	H	VAL	X	404	47.968	32.159	51.214	0.00	0.00
ATOM	6074	CA	VAL	X	404	46.633	30.485	51.375	0.00	0.00
ATOM	6075	HA	VAL	X	404	46.050	30.169	50.509	0.00	0.00
ATOM	6076	CB	VAL	X	404	47.857	29.569	51.395	0.00	0.00
ATOM	6077	HB	VAL	X	404	48.695	29.928	51.992	0.00	0.00
ATOM	6078	CG1	VAL	X	404	47.552	28.092	51.820	0.00	0.00
ATOM	6079	HG11	VAL	X	404	46.927	27.599	51.075	0.00	0.00
ATOM	6080	HG12	VAL	X	404	48.440	27.461	51.826	0.00	0.00
ATOM	6081	HG13	VAL	X	404	47.034	28.056	52.779	0.00	0.00
ATOM	6082	CG2	VAL	X	404	48.452	29.571	49.935	0.00	0.00
ATOM	6083	HG21	VAL	X	404	49.425	29.079	49.948	0.00	0.00
ATOM	6084	HG22	VAL	X	404	48.842	30.553	49.666	0.00	0.00
ATOM	6085	HG23	VAL	X	404	47.695	29.293	49.202	0.00	0.00
ATOM	6086	C	VAL	X	404	45.733	30.210	52.518	0.00	0.00
ATOM	6087	O	VAL	X	404	44.574	29.755	52.321	0.00	0.00
ATOM	6088	N	CYX	X	405	46.185	30.488	53.790	0.00	0.00
ATOM	6089	H	CYX	X	405	47.147	30.742	53.963	0.00	0.00
ATOM	6090	CA	CYX	X	405	45.296	30.293	54.919	0.00	0.00
ATOM	6091	HA	CYX	X	405	45.133	29.216	54.891	0.00	0.00
ATOM	6092	CB	CYX	X	405	46.000	30.504	56.311	0.00	0.00
ATOM	6093	HB2	CYX	X	405	46.268	31.559	56.371	0.00	0.00
ATOM	6094	HB3	CYX	X	405	45.296	30.257	57.106	0.00	0.00
ATOM	6095	SG	CYX	X	405	47.369	29.432	56.602	0.00	0.00
ATOM	6096	C	CYX	X	405	44.048	31.147	54.853	0.00	0.00
ATOM	6097	O	CYX	X	405	43.033	30.536	54.901	0.00	0.00
ATOM	6098	N	PRO	X	406	44.160	32.485	54.611	0.00	0.00
ATOM	6099	CD	PRO	X	406	45.307	33.411	54.506	0.00	0.00
ATOM	6100	HD2	PRO	X	406	45.823	33.253	53.559	0.00	0.00
ATOM	6101	HD3	PRO	X	406	46.048	33.128	55.254	0.00	0.00
ATOM	6102	CG	PRO	X	406	44.867	34.873	54.516	0.00	0.00
ATOM	6103	HG2	PRO	X	406	45.529	35.507	53.927	0.00	0.00
ATOM	6104	HG3	PRO	X	406	44.704	35.153	55.557	0.00	0.00
ATOM	6105	CB	PRO	X	406	43.514	34.642	53.768	0.00	0.00
ATOM	6106	HB2	PRO	X	406	43.791	34.680	52.714	0.00	0.00
ATOM	6107	HB3	PRO	X	406	42.738	35.379	53.977	0.00	0.00
ATOM	6108	CA	PRO	X	406	42.998	33.268	54.250	0.00	0.00
ATOM	6109	HA	PRO	X	406	42.547	33.331	55.241	0.00	0.00
ATOM	6110	C	PRO	X	406	42.022	32.670	53.256	0.00	0.00
ATOM	6111	O	PRO	X	406	40.827	32.622	53.530	0.00	0.00
ATOM	6112	N	VAL	X	407	42.546	32.223	52.121	0.00	0.00
ATOM	6113	H	VAL	X	407	43.542	32.359	52.019	0.00	0.00
ATOM	6114	CA	VAL	X	407	41.612	31.689	51.067	0.00	0.00
ATOM	6115	HA	VAL	X	407	40.838	32.433	50.880	0.00	0.00

ATOM	6116	CB	VAL	X	407	42.398	31.511	49.712	0.00	0.00
ATOM	6117	HB	VAL	X	407	43.300	30.937	49.921	0.00	0.00
ATOM	6118	CG1	VAL	X	407	41.505	30.622	48.776	0.00	0.00
ATOM	6119	HG11	VAL	X	407	40.604	31.131	48.435	0.00	0.00
ATOM	6120	HG12	VAL	X	407	42.078	30.273	47.918	0.00	0.00
ATOM	6121	HG13	VAL	X	407	41.213	29.700	49.280	0.00	0.00
ATOM	6122	CG2	VAL	X	407	42.882	32.798	49.053	0.00	0.00
ATOM	6123	HG21	VAL	X	407	42.090	33.248	48.454	0.00	0.00
ATOM	6124	HG22	VAL	X	407	43.643	32.427	48.367	0.00	0.00
ATOM	6125	HG23	VAL	X	407	43.334	33.490	49.764	0.00	0.00
ATOM	6126	C	VAL	X	407	40.932	30.356	51.617	0.00	0.00
ATOM	6127	O	VAL	X	407	39.820	30.053	51.216	0.00	0.00
ATOM	6128	N	ALA	X	408	41.579	29.560	52.477	0.00	0.00
ATOM	6129	H	ALA	X	408	42.551	29.750	52.674	0.00	0.00
ATOM	6130	CA	ALA	X	408	40.906	28.333	53.021	0.00	0.00
ATOM	6131	HA	ALA	X	408	40.397	27.772	52.237	0.00	0.00
ATOM	6132	CB	ALA	X	408	42.092	27.460	53.449	0.00	0.00
ATOM	6133	HB1	ALA	X	408	42.586	27.416	52.478	0.00	0.00
ATOM	6134	HB2	ALA	X	408	41.834	26.506	53.907	0.00	0.00
ATOM	6135	HB3	ALA	X	408	42.763	27.898	54.188	0.00	0.00
ATOM	6136	C	ALA	X	408	39.885	28.671	54.136	0.00	0.00
ATOM	6137	O	ALA	X	408	38.852	27.991	54.249	0.00	0.00
ATOM	6138	N	GLN	X	409	40.201	29.676	54.952	0.00	0.00
ATOM	6139	H	GLN	X	409	41.094	30.122	54.804	0.00	0.00
ATOM	6140	CA	GLN	X	409	39.382	30.147	56.062	0.00	0.00
ATOM	6141	HA	GLN	X	409	39.105	29.254	56.622	0.00	0.00
ATOM	6142	CB	GLN	X	409	40.194	31.144	57.002	0.00	0.00
ATOM	6143	HB2	GLN	X	409	40.878	31.810	56.475	0.00	0.00
ATOM	6144	HB3	GLN	X	409	39.520	31.816	57.532	0.00	0.00
ATOM	6145	CG	GLN	X	409	41.093	30.490	58.052	0.00	0.00
ATOM	6146	HG2	GLN	X	409	40.470	29.878	58.704	0.00	0.00
ATOM	6147	HG3	GLN	X	409	41.789	29.816	57.553	0.00	0.00
ATOM	6148	CD	GLN	X	409	41.949	31.488	58.805	0.00	0.00
ATOM	6149	OE1	GLN	X	409	43.102	31.774	58.459	0.00	0.00
ATOM	6150	NE2	GLN	X	409	41.488	32.073	59.870	0.00	0.00
ATOM	6151	HE21	GLN	X	409	42.028	32.807	60.305	0.00	0.00
ATOM	6152	HE22	GLN	X	409	40.589	31.761	60.208	0.00	0.00
ATOM	6153	C	GLN	X	409	38.112	30.798	55.598	0.00	0.00
ATOM	6154	O	GLN	X	409	37.023	30.503	56.134	0.00	0.00
ATOM	6155	N	LEU	X	410	38.157	31.534	54.509	0.00	0.00
ATOM	6156	H	LEU	X	410	39.042	31.583	54.024	0.00	0.00
ATOM	6157	CA	LEU	X	410	37.080	32.120	53.781	0.00	0.00
ATOM	6158	HA	LEU	X	410	36.440	32.704	54.443	0.00	0.00
ATOM	6159	CB	LEU	X	410	37.721	33.049	52.735	0.00	0.00
ATOM	6160	HB2	LEU	X	410	38.310	33.824	53.226	0.00	0.00
ATOM	6161	HB3	LEU	X	410	38.438	32.500	52.125	0.00	0.00
ATOM	6162	CG	LEU	X	410	36.751	33.728	51.710	0.00	0.00
ATOM	6163	HG	LEU	X	410	36.086	33.013	51.224	0.00	0.00
ATOM	6164	CD1	LEU	X	410	35.763	34.652	52.400	0.00	0.00
ATOM	6165	HD11	LEU	X	410	35.005	35.115	51.768	0.00	0.00
ATOM	6166	HD12	LEU	X	410	36.424	35.418	52.805	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.175	34.130	53.155	0.00	0.00
ATOM	6168	CD2	LEU	X	410	37.469	34.475	50.585	0.00	0.00
ATOM	6169	HD21	LEU	X	410	38.063	33.753	50.025	0.00	0.00
ATOM	6170	HD22	LEU	X	410	36.700	34.865	49.918	0.00	0.00
ATOM	6171	HD23	LEU	X	410	37.967	35.363	50.974	0.00	0.00
ATOM	6172	C	LEU	X	410	36.238	31.053	53.171	0.00	0.00
ATOM	6173	O	LEU	X	410	35.054	31.057	53.412	0.00	0.00
ATOM	6174	N	ALA	X	411	36.802	30.028	52.518	0.00	0.00
ATOM	6175	H	ALA	X	411	37.734	30.187	52.163	0.00	0.00
ATOM	6176	CA	ALA	X	411	36.119	28.924	51.809	0.00	0.00
ATOM	6177	HA	ALA	X	411	35.426	29.308	51.061	0.00	0.00
ATOM	6178	CB	ALA	X	411	37.198	27.962	51.331	0.00	0.00
ATOM	6179	HB1	ALA	X	411	36.625	27.159	50.868	0.00	0.00
ATOM	6180	HB2	ALA	X	411	37.956	27.644	52.047	0.00	0.00
ATOM	6181	HB3	ALA	X	411	37.726	28.410	50.490	0.00	0.00
ATOM	6182	C	ALA	X	411	35.189	28.223	52.873	0.00	0.00

ATOM	6183	O	ALA	X	411	33.987	27.965	52.660	0.00	0.00
ATOM	6184	N	GLY	X	412	35.747	27.926	54.006	0.00	0.00
ATOM	6185	H	GLY	X	412	36.747	27.999	54.125	0.00	0.00
ATOM	6186	CA	GLY	X	412	35.046	27.352	55.175	0.00	0.00
ATOM	6187	HA2	GLY	X	412	34.496	26.503	54.770	0.00	0.00
ATOM	6188	HA3	GLY	X	412	35.742	27.110	55.978	0.00	0.00
ATOM	6189	C	GLY	X	412	34.060	28.241	55.896	0.00	0.00
ATOM	6190	O	GLY	X	412	33.015	27.710	56.231	0.00	0.00
ATOM	6191	N	ARG	X	413	34.252	29.614	55.896	0.00	0.00
ATOM	6192	H	ARG	X	413	35.123	29.994	55.553	0.00	0.00
ATOM	6193	CA	ARG	X	413	33.220	30.524	56.415	0.00	0.00
ATOM	6194	HA	ARG	X	413	32.729	30.204	57.334	0.00	0.00
ATOM	6195	CB	ARG	X	413	33.878	31.932	56.616	0.00	0.00
ATOM	6196	HB2	ARG	X	413	34.651	31.856	57.381	0.00	0.00
ATOM	6197	HB3	ARG	X	413	34.356	32.180	55.668	0.00	0.00
ATOM	6198	CG	ARG	X	413	32.958	33.067	57.021	0.00	0.00
ATOM	6199	HG2	ARG	X	413	33.544	33.962	57.228	0.00	0.00
ATOM	6200	HG3	ARG	X	413	32.309	33.348	56.192	0.00	0.00
ATOM	6201	CD	ARG	X	413	32.157	32.741	58.256	0.00	0.00
ATOM	6202	HD2	ARG	X	413	31.560	31.855	58.044	0.00	0.00
ATOM	6203	HD3	ARG	X	413	32.818	32.613	59.113	0.00	0.00
ATOM	6204	NE	ARG	X	413	31.110	33.717	58.651	0.00	0.00
ATOM	6205	HE	ARG	X	413	30.993	34.556	58.100	0.00	0.00
ATOM	6206	CZ	ARG	X	413	30.294	33.587	59.659	0.00	0.00
ATOM	6207	NH1	ARG	X	413	30.469	32.648	60.600	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.061	31.863	60.371	0.00	0.00
ATOM	6209	HH12	ARG	X	413	30.082	32.620	61.532	0.00	0.00
ATOM	6210	NH2	ARG	X	413	29.355	34.474	59.744	0.00	0.00
ATOM	6211	HH21	ARG	X	413	29.334	35.152	58.996	0.00	0.00
ATOM	6212	HH22	ARG	X	413	28.497	34.375	60.266	0.00	0.00
ATOM	6213	C	ARG	X	413	32.006	30.557	55.429	0.00	0.00
ATOM	6214	O	ARG	X	413	30.846	30.557	55.843	0.00	0.00
ATOM	6215	N	LEU	X	414	32.302	30.519	54.121	0.00	0.00
ATOM	6216	H	LEU	X	414	33.268	30.488	53.828	0.00	0.00
ATOM	6217	CA	LEU	X	414	31.305	30.411	53.039	0.00	0.00
ATOM	6218	HA	LEU	X	414	30.574	31.204	53.199	0.00	0.00
ATOM	6219	CB	LEU	X	414	31.964	30.646	51.652	0.00	0.00
ATOM	6220	HB2	LEU	X	414	32.739	29.900	51.476	0.00	0.00
ATOM	6221	HB3	LEU	X	414	31.239	30.429	50.868	0.00	0.00
ATOM	6222	CG	LEU	X	414	32.538	32.046	51.330	0.00	0.00
ATOM	6223	HG	LEU	X	414	33.275	32.327	52.082	0.00	0.00
ATOM	6224	CD1	LEU	X	414	33.359	31.982	50.049	0.00	0.00
ATOM	6225	HD11	LEU	X	414	33.618	32.980	49.697	0.00	0.00
ATOM	6226	HD12	LEU	X	414	32.694	31.540	49.307	0.00	0.00
ATOM	6227	HD13	LEU	X	414	34.247	31.365	50.190	0.00	0.00
ATOM	6228	CD2	LEU	X	414	31.585	33.231	51.271	0.00	0.00
ATOM	6229	HD21	LEU	X	414	32.122	34.095	50.879	0.00	0.00
ATOM	6230	HD22	LEU	X	414	30.886	32.992	50.469	0.00	0.00
ATOM	6231	HD23	LEU	X	414	31.151	33.432	52.251	0.00	0.00
ATOM	6232	C	LEU	X	414	30.485	29.088	53.057	0.00	0.00
ATOM	6233	O	LEU	X	414	29.242	29.118	53.186	0.00	0.00
ATOM	6234	N	ALA	X	415	31.199	27.936	53.124	0.00	0.00
ATOM	6235	H	ALA	X	415	32.191	27.920	52.938	0.00	0.00
ATOM	6236	CA	ALA	X	415	30.532	26.578	53.177	0.00	0.00
ATOM	6237	HA	ALA	X	415	29.834	26.480	52.345	0.00	0.00
ATOM	6238	CB	ALA	X	415	31.592	25.525	52.938	0.00	0.00
ATOM	6239	HB1	ALA	X	415	32.232	25.364	53.805	0.00	0.00
ATOM	6240	HB2	ALA	X	415	32.212	25.928	52.137	0.00	0.00
ATOM	6241	HB3	ALA	X	415	31.195	24.521	52.787	0.00	0.00
ATOM	6242	C	ALA	X	415	29.720	26.356	54.415	0.00	0.00
ATOM	6243	O	ALA	X	415	28.747	25.583	54.410	0.00	0.00
ATOM	6244	N	ALA	X	416	30.116	27.060	55.568	0.00	0.00
ATOM	6245	H	ALA	X	416	31.037	27.473	55.597	0.00	0.00
ATOM	6246	CA	ALA	X	416	29.400	27.117	56.885	0.00	0.00
ATOM	6247	HA	ALA	X	416	29.000	26.136	57.141	0.00	0.00
ATOM	6248	CB	ALA	X	416	30.379	27.615	57.995	0.00	0.00
ATOM	6249	HB1	ALA	X	416	29.918	27.646	58.983	0.00	0.00

ATOM	6250	HB2	ALA	X	416	30.632	28.646	57.752	0.00	0.00
ATOM	6251	HB3	ALA	X	416	31.214	26.933	58.155	0.00	0.00
ATOM	6252	C	ALA	X	416	28.119	27.916	56.711	0.00	0.00
ATOM	6253	O	ALA	X	416	27.118	27.428	57.208	0.00	0.00
ATOM	6254	N	GLN	X	417	28.170	29.095	56.061	0.00	0.00
ATOM	6255	H	GLN	X	417	29.039	29.562	55.847	0.00	0.00
ATOM	6256	CA	GLN	X	417	26.967	29.815	55.717	0.00	0.00
ATOM	6257	HA	GLN	X	417	26.319	29.835	56.593	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.196	31.255	55.310	0.00	0.00
ATOM	6259	HB2	GLN	X	417	27.760	31.368	54.385	0.00	0.00
ATOM	6260	HB3	GLN	X	417	26.235	31.688	55.033	0.00	0.00
ATOM	6261	CG	GLN	X	417	27.862	32.102	56.401	0.00	0.00
ATOM	6262	HG2	GLN	X	417	28.881	31.752	56.566	0.00	0.00
ATOM	6263	HG3	GLN	X	417	27.785	33.155	56.131	0.00	0.00
ATOM	6264	CD	GLN	X	417	27.075	32.141	57.730	0.00	0.00
ATOM	6265	OE1	GLN	X	417	27.558	31.775	58.819	0.00	0.00
ATOM	6266	NE2	GLN	X	417	25.808	32.444	57.726	0.00	0.00
ATOM	6267	HE21	GLN	X	417	25.203	32.348	58.528	0.00	0.00
ATOM	6268	HE22	GLN	X	417	25.356	32.706	56.861	0.00	0.00
ATOM	6269	C	GLN	X	417	26.154	29.026	54.683	0.00	0.00
ATOM	6270	O	GLN	X	417	24.937	29.161	54.666	0.00	0.00
ATOM	6271	N	GLY	X	418	26.730	28.056	53.913	0.00	0.00
ATOM	6272	H	GLY	X	418	27.728	27.926	53.829	0.00	0.00
ATOM	6273	CA	GLY	X	418	26.007	27.277	52.921	0.00	0.00
ATOM	6274	HA2	GLY	X	418	26.346	26.242	52.887	0.00	0.00
ATOM	6275	HA3	GLY	X	418	24.924	27.280	53.040	0.00	0.00
ATOM	6276	C	GLY	X	418	26.180	27.735	51.508	0.00	0.00
ATOM	6277	O	GLY	X	418	25.410	27.291	50.628	0.00	0.00
ATOM	6278	N	ALA	X	419	27.098	28.679	51.209	0.00	0.00
ATOM	6279	H	ALA	X	419	27.654	28.957	52.005	0.00	0.00
ATOM	6280	CA	ALA	X	419	27.404	29.044	49.894	0.00	0.00
ATOM	6281	HA	ALA	X	419	26.506	29.317	49.340	0.00	0.00
ATOM	6282	CB	ALA	X	419	28.209	30.350	49.890	0.00	0.00
ATOM	6283	HB1	ALA	X	419	28.534	30.508	50.918	0.00	0.00
ATOM	6284	HB2	ALA	X	419	27.551	31.171	49.608	0.00	0.00
ATOM	6285	HB3	ALA	X	419	29.099	30.189	49.280	0.00	0.00
ATOM	6286	C	ALA	X	419	28.097	27.877	49.077	0.00	0.00
ATOM	6287	O	ALA	X	419	28.824	27.077	49.708	0.00	0.00
ATOM	6288	N	ARG	X	420	27.697	27.785	47.756	0.00	0.00
ATOM	6289	H	ARG	X	420	27.151	28.559	47.403	0.00	0.00
ATOM	6290	CA	ARG	X	420	28.065	26.690	46.953	0.00	0.00
ATOM	6291	HA	ARG	X	420	28.150	25.820	47.604	0.00	0.00
ATOM	6292	CB	ARG	X	420	26.931	26.384	45.988	0.00	0.00
ATOM	6293	HB2	ARG	X	420	25.997	26.252	46.533	0.00	0.00
ATOM	6294	HB3	ARG	X	420	26.856	27.270	45.358	0.00	0.00
ATOM	6295	CG	ARG	X	420	27.210	25.152	45.176	0.00	0.00
ATOM	6296	HG2	ARG	X	420	27.734	25.541	44.303	0.00	0.00
ATOM	6297	HG3	ARG	X	420	27.890	24.477	45.695	0.00	0.00
ATOM	6298	CD	ARG	X	420	25.968	24.426	44.725	0.00	0.00
ATOM	6299	HD2	ARG	X	420	25.351	24.289	45.613	0.00	0.00
ATOM	6300	HD3	ARG	X	420	25.386	24.961	43.974	0.00	0.00
ATOM	6301	NE	ARG	X	420	26.313	23.074	44.309	0.00	0.00
ATOM	6302	HE	ARG	X	420	26.623	23.023	43.350	0.00	0.00
ATOM	6303	CZ	ARG	X	420	26.252	21.943	45.058	0.00	0.00
ATOM	6304	NH1	ARG	X	420	26.281	21.905	46.340	0.00	0.00
ATOM	6305	HH11	ARG	X	420	26.352	22.805	46.792	0.00	0.00
ATOM	6306	HH12	ARG	X	420	26.285	21.054	46.885	0.00	0.00
ATOM	6307	NH2	ARG	X	420	26.231	20.816	44.400	0.00	0.00
ATOM	6308	HH21	ARG	X	420	26.533	20.889	43.439	0.00	0.00
ATOM	6309	HH22	ARG	X	420	26.181	19.916	44.855	0.00	0.00
ATOM	6310	C	ARG	X	420	29.396	27.038	46.256	0.00	0.00
ATOM	6311	O	ARG	X	420	29.387	28.044	45.580	0.00	0.00
ATOM	6312	N	VAL	X	421	30.465	26.276	46.407	0.00	0.00
ATOM	6313	H	VAL	X	421	30.422	25.358	46.826	0.00	0.00
ATOM	6314	CA	VAL	X	421	31.866	26.737	46.312	0.00	0.00
ATOM	6315	HA	VAL	X	421	31.813	27.710	45.822	0.00	0.00
ATOM	6316	CB	VAL	X	421	32.387	27.193	47.734	0.00	0.00

ATOM	6317	HB	VAL	X	421	32.259	26.319	48.372	0.00	0.00
ATOM	6318	CG1	VAL	X	421	33.910	27.696	47.843	0.00	0.00
ATOM	6319	HG11	VAL	X	421	34.185	28.442	47.097	0.00	0.00
ATOM	6320	HG12	VAL	X	421	34.273	28.165	48.758	0.00	0.00
ATOM	6321	HG13	VAL	X	421	34.515	26.795	47.743	0.00	0.00
ATOM	6322	CG2	VAL	X	421	31.560	28.376	48.277	0.00	0.00
ATOM	6323	HG21	VAL	X	421	31.798	29.254	47.675	0.00	0.00
ATOM	6324	HG22	VAL	X	421	31.897	28.541	49.300	0.00	0.00
ATOM	6325	HG23	VAL	X	421	30.489	28.188	48.207	0.00	0.00
ATOM	6326	C	VAL	X	421	32.807	25.713	45.700	0.00	0.00
ATOM	6327	O	VAL	X	421	32.419	24.517	45.765	0.00	0.00
ATOM	6328	N	TYR	X	422	33.959	26.111	45.098	0.00	0.00
ATOM	6329	H	TYR	X	422	34.097	27.099	45.256	0.00	0.00
ATOM	6330	CA	TYR	X	422	34.957	25.265	44.369	0.00	0.00
ATOM	6331	HA	TYR	X	422	34.729	24.232	44.633	0.00	0.00
ATOM	6332	CB	TYR	X	422	34.509	25.349	42.938	0.00	0.00
ATOM	6333	HB2	TYR	X	422	34.667	26.345	42.524	0.00	0.00
ATOM	6334	HB3	TYR	X	422	35.027	24.625	42.309	0.00	0.00
ATOM	6335	CG	TYR	X	422	33.024	24.938	42.727	0.00	0.00
ATOM	6336	CD1	TYR	X	422	32.710	23.580	42.804	0.00	0.00
ATOM	6337	HD1	TYR	X	422	33.451	22.830	43.039	0.00	0.00
ATOM	6338	CE1	TYR	X	422	31.377	23.170	42.868	0.00	0.00
ATOM	6339	HE1	TYR	X	422	31.175	22.110	42.914	0.00	0.00
ATOM	6340	CZ	TYR	X	422	30.332	24.186	42.694	0.00	0.00
ATOM	6341	OH	TYR	X	422	28.994	23.844	42.701	0.00	0.00
ATOM	6342	HH	TYR	X	422	28.931	22.891	42.805	0.00	0.00
ATOM	6343	CE2	TYR	X	422	30.662	25.543	42.536	0.00	0.00
ATOM	6344	HE2	TYR	X	422	29.896	26.303	42.500	0.00	0.00
ATOM	6345	CD2	TYR	X	422	31.997	25.877	42.547	0.00	0.00
ATOM	6346	HD2	TYR	X	422	32.239	26.929	42.528	0.00	0.00
ATOM	6347	C	TYR	X	422	36.363	25.742	44.632	0.00	0.00
ATOM	6348	O	TYR	X	422	36.734	26.826	44.246	0.00	0.00
ATOM	6349	N	ALA	X	423	37.157	24.883	45.307	0.00	0.00
ATOM	6350	H	ALA	X	423	36.742	23.985	45.512	0.00	0.00
ATOM	6351	CA	ALA	X	423	38.548	25.226	45.638	0.00	0.00
ATOM	6352	HA	ALA	X	423	38.763	26.260	45.370	0.00	0.00
ATOM	6353	CB	ALA	X	423	38.732	24.973	47.169	0.00	0.00
ATOM	6354	HB1	ALA	X	423	37.961	25.480	47.748	0.00	0.00
ATOM	6355	HB2	ALA	X	423	39.735	25.260	47.485	0.00	0.00
ATOM	6356	HB3	ALA	X	423	38.573	23.906	47.324	0.00	0.00
ATOM	6357	C	ALA	X	423	39.563	24.513	44.775	0.00	0.00
ATOM	6358	O	ALA	X	423	39.606	23.289	44.613	0.00	0.00
ATOM	6359	N	TYR	X	424	40.559	25.265	44.239	0.00	0.00
ATOM	6360	H	TYR	X	424	40.647	26.193	44.629	0.00	0.00
ATOM	6361	CA	TYR	X	424	41.750	24.638	43.615	0.00	0.00
ATOM	6362	HA	TYR	X	424	41.711	23.552	43.700	0.00	0.00
ATOM	6363	CB	TYR	X	424	41.751	24.891	42.103	0.00	0.00
ATOM	6364	HB2	TYR	X	424	42.273	24.064	41.622	0.00	0.00
ATOM	6365	HB3	TYR	X	424	40.727	24.736	41.763	0.00	0.00
ATOM	6366	CG	TYR	X	424	42.190	26.264	41.676	0.00	0.00
ATOM	6367	CD1	TYR	X	424	43.540	26.523	41.348	0.00	0.00
ATOM	6368	HD1	TYR	X	424	44.256	25.715	41.328	0.00	0.00
ATOM	6369	CE1	TYR	X	424	43.913	27.899	41.111	0.00	0.00
ATOM	6370	HE1	TYR	X	424	44.916	28.176	40.820	0.00	0.00
ATOM	6371	CZ	TYR	X	424	42.931	28.964	41.257	0.00	0.00
ATOM	6372	OH	TYR	X	424	43.397	30.237	41.403	0.00	0.00
ATOM	6373	HH	TYR	X	424	44.306	30.350	41.115	0.00	0.00
ATOM	6374	CE2	TYR	X	424	41.594	28.615	41.549	0.00	0.00
ATOM	6375	HE2	TYR	X	424	40.892	29.434	41.594	0.00	0.00
ATOM	6376	CD2	TYR	X	424	41.297	27.314	41.851	0.00	0.00
ATOM	6377	HD2	TYR	X	424	40.340	27.053	42.277	0.00	0.00
ATOM	6378	C	TYR	X	424	43.151	25.036	44.288	0.00	0.00
ATOM	6379	O	TYR	X	424	43.382	26.121	44.920	0.00	0.00
ATOM	6380	N	VAL	X	425	44.069	24.115	44.182	0.00	0.00
ATOM	6381	H	VAL	X	425	43.803	23.188	43.881	0.00	0.00
ATOM	6382	CA	VAL	X	425	45.591	24.304	43.954	0.00	0.00
ATOM	6383	HA	VAL	X	425	45.901	25.347	44.010	0.00	0.00

ATOM	6384	CB	VAL	X	425	46.401	23.655	45.111	0.00	0.00
ATOM	6385	HB	VAL	X	425	45.840	23.666	46.046	0.00	0.00
ATOM	6386	CG1	VAL	X	425	46.789	22.201	44.744	0.00	0.00
ATOM	6387	HG11	VAL	X	425	45.850	21.661	44.624	0.00	0.00
ATOM	6388	HG12	VAL	X	425	47.390	21.997	43.858	0.00	0.00
ATOM	6389	HG13	VAL	X	425	47.144	21.743	45.667	0.00	0.00
ATOM	6390	CG2	VAL	X	425	47.699	24.385	45.467	0.00	0.00
ATOM	6391	HG21	VAL	X	425	48.203	24.692	44.551	0.00	0.00
ATOM	6392	HG22	VAL	X	425	48.366	23.808	46.108	0.00	0.00
ATOM	6393	HG23	VAL	X	425	47.420	25.373	45.835	0.00	0.00
ATOM	6394	C	VAL	X	425	46.115	23.968	42.577	0.00	0.00
ATOM	6395	O	VAL	X	425	45.479	23.063	42.029	0.00	0.00
ATOM	6396	N	PHE	X	426	47.124	24.722	42.124	0.00	0.00
ATOM	6397	H	PHE	X	426	47.551	25.437	42.695	0.00	0.00
ATOM	6398	CA	PHE	X	426	47.559	24.679	40.719	0.00	0.00
ATOM	6399	HA	PHE	X	426	46.868	23.979	40.249	0.00	0.00
ATOM	6400	CB	PHE	X	426	47.329	26.118	40.105	0.00	0.00
ATOM	6401	HB2	PHE	X	426	46.333	26.435	40.413	0.00	0.00
ATOM	6402	HB3	PHE	X	426	48.065	26.837	40.466	0.00	0.00
ATOM	6403	CG	PHE	X	426	47.223	26.142	38.603	0.00	0.00
ATOM	6404	CD1	PHE	X	426	46.006	26.255	37.955	0.00	0.00
ATOM	6405	HD1	PHE	X	426	45.152	26.381	38.604	0.00	0.00
ATOM	6406	CE1	PHE	X	426	45.889	26.215	36.559	0.00	0.00
ATOM	6407	HE1	PHE	X	426	44.917	26.274	36.093	0.00	0.00
ATOM	6408	CZ	PHE	X	426	47.080	26.184	35.809	0.00	0.00
ATOM	6409	HZ	PHE	X	426	46.983	26.315	34.742	0.00	0.00
ATOM	6410	CE2	PHE	X	426	48.358	26.137	36.448	0.00	0.00
ATOM	6411	HE2	PHE	X	426	49.314	26.133	35.947	0.00	0.00
ATOM	6412	CD2	PHE	X	426	48.415	26.125	37.845	0.00	0.00
ATOM	6413	HD2	PHE	X	426	49.385	26.116	38.320	0.00	0.00
ATOM	6414	C	PHE	X	426	49.011	24.176	40.592	0.00	0.00
ATOM	6415	O	PHE	X	426	49.960	24.900	40.924	0.00	0.00
ATOM	6416	N	GLU	X	427	49.229	22.927	40.239	0.00	0.00
ATOM	6417	H	GLU	X	427	48.463	22.335	39.949	0.00	0.00
ATOM	6418	CA	GLU	X	427	50.593	22.343	40.141	0.00	0.00
ATOM	6419	HA	GLU	X	427	51.196	22.823	40.911	0.00	0.00
ATOM	6420	CB	GLU	X	427	50.465	20.956	40.763	0.00	0.00
ATOM	6421	HB2	GLU	X	427	49.929	20.277	40.100	0.00	0.00
ATOM	6422	HB3	GLU	X	427	51.403	20.403	40.810	0.00	0.00
ATOM	6423	CG	GLU	X	427	49.767	20.946	42.177	0.00	0.00
ATOM	6424	HG2	GLU	X	427	50.032	21.845	42.734	0.00	0.00
ATOM	6425	HG3	GLU	X	427	48.688	21.062	42.079	0.00	0.00
ATOM	6426	CD	GLU	X	427	50.184	19.797	42.995	0.00	0.00
ATOM	6427	OE1	GLU	X	427	50.627	19.979	44.131	0.00	0.00
ATOM	6428	OE2	GLU	X	427	50.213	18.667	42.469	0.00	0.00
ATOM	6429	C	GLU	X	427	51.374	22.390	38.779	0.00	0.00
ATOM	6430	O	GLU	X	427	52.487	21.902	38.736	0.00	0.00
ATOM	6431	N	HIE	X	428	50.824	22.874	37.647	0.00	0.00
ATOM	6432	H	HIE	X	428	49.956	23.348	37.850	0.00	0.00
ATOM	6433	CA	HIE	X	428	51.588	23.013	36.412	0.00	0.00
ATOM	6434	HA	HIE	X	428	52.324	22.209	36.418	0.00	0.00
ATOM	6435	CB	HIE	X	428	50.724	22.739	35.146	0.00	0.00
ATOM	6436	HB2	HIE	X	428	50.279	21.749	35.243	0.00	0.00
ATOM	6437	HB3	HIE	X	428	49.837	23.369	35.076	0.00	0.00
ATOM	6438	CG	HIE	X	428	51.534	22.827	33.960	0.00	0.00
ATOM	6439	ND1	HIE	X	428	52.509	21.950	33.618	0.00	0.00
ATOM	6440	CE1	HIE	X	428	53.163	22.391	32.573	0.00	0.00
ATOM	6441	HE1	HIE	X	428	53.953	21.880	32.044	0.00	0.00
ATOM	6442	NE2	HIE	X	428	52.570	23.565	32.158	0.00	0.00
ATOM	6443	HE2	HIE	X	428	52.913	24.022	31.326	0.00	0.00
ATOM	6444	CD2	HIE	X	428	51.583	23.855	33.038	0.00	0.00
ATOM	6445	HD2	HIE	X	428	51.007	24.768	32.996	0.00	0.00
ATOM	6446	C	HIE	X	428	52.419	24.295	36.297	0.00	0.00
ATOM	6447	O	HIE	X	428	52.018	25.426	36.738	0.00	0.00
ATOM	6448	N	ARG	X	429	53.640	24.127	35.670	0.00	0.00
ATOM	6449	H	ARG	X	429	53.891	23.210	35.330	0.00	0.00
ATOM	6450	CA	ARG	X	429	54.695	25.075	35.583	0.00	0.00

ATOM	6451	HA	ARG	X	429	54.346	26.016	36.009	0.00	0.00
ATOM	6452	CB	ARG	X	429	55.990	24.530	36.321	0.00	0.00
ATOM	6453	HB2	ARG	X	429	55.641	24.186	37.294	0.00	0.00
ATOM	6454	HB3	ARG	X	429	56.433	23.739	35.717	0.00	0.00
ATOM	6455	CG	ARG	X	429	56.927	25.756	36.573	0.00	0.00
ATOM	6456	HG2	ARG	X	429	57.277	26.191	35.637	0.00	0.00
ATOM	6457	HG3	ARG	X	429	56.437	26.508	37.193	0.00	0.00
ATOM	6458	CD	ARG	X	429	58.234	25.354	37.347	0.00	0.00
ATOM	6459	HD2	ARG	X	429	57.858	24.875	38.251	0.00	0.00
ATOM	6460	HD3	ARG	X	429	58.872	24.658	36.802	0.00	0.00
ATOM	6461	NE	ARG	X	429	59.017	26.596	37.718	0.00	0.00
ATOM	6462	HE	ARG	X	429	58.521	27.222	38.336	0.00	0.00
ATOM	6463	CZ	ARG	X	429	60.206	26.912	37.370	0.00	0.00
ATOM	6464	NH1	ARG	X	429	60.951	26.083	36.661	0.00	0.00
ATOM	6465	HH11	ARG	X	429	60.658	25.132	36.488	0.00	0.00
ATOM	6466	HH12	ARG	X	429	61.936	26.225	36.486	0.00	0.00
ATOM	6467	NH2	ARG	X	429	60.690	28.055	37.765	0.00	0.00
ATOM	6468	HH21	ARG	X	429	60.046	28.703	38.195	0.00	0.00
ATOM	6469	HH22	ARG	X	429	61.408	28.449	37.173	0.00	0.00
ATOM	6470	C	ARG	X	429	55.045	25.363	34.074	0.00	0.00
ATOM	6471	O	ARG	X	429	55.543	24.481	33.389	0.00	0.00
ATOM	6472	N	ALA	X	430	54.518	26.509	33.643	0.00	0.00
ATOM	6473	H	ALA	X	430	54.182	27.208	34.290	0.00	0.00
ATOM	6474	CA	ALA	X	430	54.555	26.843	32.209	0.00	0.00
ATOM	6475	HA	ALA	X	430	53.981	26.065	31.706	0.00	0.00
ATOM	6476	CB	ALA	X	430	54.104	28.311	31.909	0.00	0.00
ATOM	6477	HB1	ALA	X	430	54.249	28.548	30.855	0.00	0.00
ATOM	6478	HB2	ALA	X	430	54.735	29.000	32.471	0.00	0.00
ATOM	6479	HB3	ALA	X	430	53.094	28.469	32.288	0.00	0.00
ATOM	6480	C	ALA	X	430	55.995	26.672	31.664	0.00	0.00
ATOM	6481	O	ALA	X	430	56.978	26.969	32.306	0.00	0.00
ATOM	6482	N	SER	X	431	56.034	26.202	30.388	0.00	0.00
ATOM	6483	H	SER	X	431	55.186	26.097	29.848	0.00	0.00
ATOM	6484	CA	SER	X	431	57.291	25.908	29.686	0.00	0.00
ATOM	6485	HA	SER	X	431	57.907	25.347	30.389	0.00	0.00
ATOM	6486	CB	SER	X	431	57.026	25.023	28.466	0.00	0.00
ATOM	6487	HB2	SER	X	431	57.977	24.886	27.951	0.00	0.00
ATOM	6488	HB3	SER	X	431	56.564	24.077	28.747	0.00	0.00
ATOM	6489	OG	SER	X	431	56.182	25.666	27.552	0.00	0.00
ATOM	6490	HG	SER	X	431	55.293	25.340	27.710	0.00	0.00
ATOM	6491	C	SER	X	431	58.236	27.089	29.341	0.00	0.00
ATOM	6492	O	SER	X	431	59.501	27.043	29.276	0.00	0.00
ATOM	6493	N	THR	X	432	57.622	28.254	29.098	0.00	0.00
ATOM	6494	H	THR	X	432	56.625	28.123	29.198	0.00	0.00
ATOM	6495	CA	THR	X	432	58.143	29.639	28.819	0.00	0.00
ATOM	6496	HA	THR	X	432	59.024	29.573	28.181	0.00	0.00
ATOM	6497	CB	THR	X	432	57.083	30.593	28.280	0.00	0.00
ATOM	6498	HB	THR	X	432	57.578	31.562	28.215	0.00	0.00
ATOM	6499	CG2	THR	X	432	56.484	30.016	26.985	0.00	0.00
ATOM	6500	HG21	THR	X	432	57.308	29.778	26.313	0.00	0.00
ATOM	6501	HG22	THR	X	432	55.918	30.789	26.465	0.00	0.00
ATOM	6502	HG23	THR	X	432	55.809	29.174	27.140	0.00	0.00
ATOM	6503	OG1	THR	X	432	56.019	30.660	29.165	0.00	0.00
ATOM	6504	HG1	THR	X	432	55.320	31.211	28.806	0.00	0.00
ATOM	6505	C	THR	X	432	58.664	30.376	30.025	0.00	0.00
ATOM	6506	O	THR	X	432	59.509	31.262	29.873	0.00	0.00
ATOM	6507	N	LEU	X	433	58.197	30.047	31.239	0.00	0.00
ATOM	6508	H	LEU	X	433	57.582	29.248	31.294	0.00	0.00
ATOM	6509	CA	LEU	X	433	58.433	30.679	32.514	0.00	0.00
ATOM	6510	HA	LEU	X	433	57.902	31.631	32.503	0.00	0.00
ATOM	6511	CB	LEU	X	433	57.794	29.889	33.677	0.00	0.00
ATOM	6512	HB2	LEU	X	433	56.734	29.661	33.566	0.00	0.00
ATOM	6513	HB3	LEU	X	433	58.431	29.004	33.676	0.00	0.00
ATOM	6514	CG	LEU	X	433	57.915	30.536	35.075	0.00	0.00
ATOM	6515	HG	LEU	X	433	58.871	31.037	35.220	0.00	0.00
ATOM	6516	CD1	LEU	X	433	56.764	31.647	35.133	0.00	0.00
ATOM	6517	HD11	LEU	X	433	56.843	32.403	34.352	0.00	0.00

ATOM	6518	HD12	LEU	X	433	56.805	32.056	36.142	0.00	0.00
ATOM	6519	HD13	LEU	X	433	55.776	31.205	35.004	0.00	0.00
ATOM	6520	CD2	LEU	X	433	57.788	29.531	36.232	0.00	0.00
ATOM	6521	HD21	LEU	X	433	58.261	30.045	37.069	0.00	0.00
ATOM	6522	HD22	LEU	X	433	56.756	29.303	36.498	0.00	0.00
ATOM	6523	HD23	LEU	X	433	58.324	28.596	36.071	0.00	0.00
ATOM	6524	C	LEU	X	433	59.947	30.926	32.718	0.00	0.00
ATOM	6525	O	LEU	X	433	60.779	30.006	32.754	0.00	0.00
ATOM	6526	N	SER	X	434	60.308	32.171	33.081	0.00	0.00
ATOM	6527	H	SER	X	434	59.617	32.886	32.901	0.00	0.00
ATOM	6528	CA	SER	X	434	61.714	32.657	33.193	0.00	0.00
ATOM	6529	HA	SER	X	434	62.310	32.010	32.550	0.00	0.00
ATOM	6530	CB	SER	X	434	61.782	34.213	32.772	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.128	34.760	33.450	0.00	0.00
ATOM	6532	HB3	SER	X	434	62.785	34.634	32.840	0.00	0.00
ATOM	6533	OG	SER	X	434	61.355	34.432	31.456	0.00	0.00
ATOM	6534	HG	SER	X	434	61.615	33.640	30.979	0.00	0.00
ATOM	6535	C	SER	X	434	62.329	32.579	34.656	0.00	0.00
ATOM	6536	O	SER	X	434	63.523	32.648	34.724	0.00	0.00
ATOM	6537	N	TRP	X	435	61.508	32.487	35.726	0.00	0.00
ATOM	6538	H	TRP	X	435	60.526	32.491	35.488	0.00	0.00
ATOM	6539	CA	TRP	X	435	61.770	32.436	37.135	0.00	0.00
ATOM	6540	HA	TRP	X	435	62.436	33.244	37.437	0.00	0.00
ATOM	6541	CB	TRP	X	435	60.476	32.722	37.874	0.00	0.00
ATOM	6542	HB2	TRP	X	435	59.678	32.080	37.501	0.00	0.00
ATOM	6543	HB3	TRP	X	435	60.635	32.463	38.920	0.00	0.00
ATOM	6544	CG	TRP	X	435	59.978	34.126	37.775	0.00	0.00
ATOM	6545	CD1	TRP	X	435	59.009	34.654	36.976	0.00	0.00
ATOM	6546	HD1	TRP	X	435	58.374	34.046	36.349	0.00	0.00
ATOM	6547	NE1	TRP	X	435	58.802	36.006	37.265	0.00	0.00
ATOM	6548	HE1	TRP	X	435	58.209	36.599	36.702	0.00	0.00
ATOM	6549	CE2	TRP	X	435	59.626	36.461	38.250	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	59.954	37.752	38.737	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	59.350	38.586	38.413	0.00	0.00
ATOM	6552	CH2	TRP	X	435	61.141	37.884	39.537	0.00	0.00
ATOM	6553	HH2	TRP	X	435	61.531	38.874	39.719	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	61.908	36.746	39.895	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	62.752	36.910	40.549	0.00	0.00
ATOM	6556	CE3	TRP	X	435	61.586	35.513	39.327	0.00	0.00
ATOM	6557	HE3	TRP	X	435	62.264	34.690	39.497	0.00	0.00
ATOM	6558	CD2	TRP	X	435	60.506	35.330	38.446	0.00	0.00
ATOM	6559	C	TRP	X	435	62.597	31.159	37.534	0.00	0.00
ATOM	6560	O	TRP	X	435	62.630	30.194	36.814	0.00	0.00
ATOM	6561	N	PRO	X	436	63.489	31.283	38.558	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.696	32.308	39.555	0.00	0.00
ATOM	6563	HD2	PRO	X	436	62.762	32.801	39.820	0.00	0.00
ATOM	6564	HD3	PRO	X	436	64.459	33.010	39.220	0.00	0.00
ATOM	6565	CG	PRO	X	436	64.341	31.696	40.853	0.00	0.00
ATOM	6566	HG2	PRO	X	436	63.579	31.087	41.340	0.00	0.00
ATOM	6567	HG3	PRO	X	436	64.870	32.393	41.503	0.00	0.00
ATOM	6568	CB	PRO	X	436	65.215	30.683	40.140	0.00	0.00
ATOM	6569	HB2	PRO	X	436	65.435	29.878	40.842	0.00	0.00
ATOM	6570	HB3	PRO	X	436	66.137	31.082	39.717	0.00	0.00
ATOM	6571	CA	PRO	X	436	64.308	30.146	38.973	0.00	0.00
ATOM	6572	HA	PRO	X	436	65.025	29.857	38.204	0.00	0.00
ATOM	6573	C	PRO	X	436	63.431	28.983	39.366	0.00	0.00
ATOM	6574	O	PRO	X	436	62.300	29.159	39.874	0.00	0.00
ATOM	6575	N	LEU	X	437	64.058	27.820	39.305	0.00	0.00
ATOM	6576	H	LEU	X	437	64.931	27.741	38.802	0.00	0.00
ATOM	6577	CA	LEU	X	437	63.378	26.530	39.541	0.00	0.00
ATOM	6578	HA	LEU	X	437	62.581	26.335	38.822	0.00	0.00
ATOM	6579	CB	LEU	X	437	64.326	25.364	39.282	0.00	0.00
ATOM	6580	HB2	LEU	X	437	64.706	25.463	38.265	0.00	0.00
ATOM	6581	HB3	LEU	X	437	65.227	25.572	39.860	0.00	0.00
ATOM	6582	CG	LEU	X	437	63.804	23.901	39.375	0.00	0.00
ATOM	6583	HG	LEU	X	437	63.235	23.744	40.292	0.00	0.00
ATOM	6584	CD1	LEU	X	437	62.844	23.489	38.234	0.00	0.00

ATOM	6585	HD11	LEU	X	437	63.348	23.463	37.269	0.00	0.00
ATOM	6586	HD12	LEU	X	437	62.063	24.241	38.114	0.00	0.00
ATOM	6587	HD13	LEU	X	437	62.482	22.467	38.340	0.00	0.00
ATOM	6588	CD2	LEU	X	437	64.967	22.898	39.562	0.00	0.00
ATOM	6589	HD21	LEU	X	437	64.614	21.923	39.900	0.00	0.00
ATOM	6590	HD22	LEU	X	437	65.520	22.833	38.625	0.00	0.00
ATOM	6591	HD23	LEU	X	437	65.601	23.328	40.337	0.00	0.00
ATOM	6592	C	LEU	X	437	62.730	26.497	40.925	0.00	0.00
ATOM	6593	O	LEU	X	437	61.598	26.073	41.080	0.00	0.00
ATOM	6594	N	TRP	X	438	63.473	26.941	41.972	0.00	0.00
ATOM	6595	H	TRP	X	438	64.381	27.339	41.780	0.00	0.00
ATOM	6596	CA	TRP	X	438	62.935	26.949	43.329	0.00	0.00
ATOM	6597	HA	TRP	X	438	62.645	25.942	43.631	0.00	0.00
ATOM	6598	CB	TRP	X	438	63.945	27.489	44.320	0.00	0.00
ATOM	6599	HB2	TRP	X	438	63.527	27.382	45.322	0.00	0.00
ATOM	6600	HB3	TRP	X	438	64.825	26.858	44.197	0.00	0.00
ATOM	6601	CG	TRP	X	438	64.290	28.962	44.185	0.00	0.00
ATOM	6602	CD1	TRP	X	438	65.473	29.422	43.727	0.00	0.00
ATOM	6603	HD1	TRP	X	438	66.326	28.855	43.384	0.00	0.00
ATOM	6604	NE1	TRP	X	438	65.631	30.783	43.791	0.00	0.00
ATOM	6605	HE1	TRP	X	438	66.525	31.248	43.731	0.00	0.00
ATOM	6606	CE2	TRP	X	438	64.438	31.352	44.289	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	63.924	32.615	44.531	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	64.613	33.409	44.282	0.00	0.00
ATOM	6609	CH2	TRP	X	438	62.651	32.876	45.031	0.00	0.00
ATOM	6610	HH2	TRP	X	438	62.250	33.874	45.124	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	61.870	31.719	45.372	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	60.965	31.858	45.944	0.00	0.00
ATOM	6613	CE3	TRP	X	438	62.387	30.365	45.265	0.00	0.00
ATOM	6614	HE3	TRP	X	438	61.856	29.515	45.668	0.00	0.00
ATOM	6615	CD2	TRP	X	438	63.618	30.170	44.586	0.00	0.00
ATOM	6616	C	TRP	X	438	61.549	27.657	43.571	0.00	0.00
ATOM	6617	O	TRP	X	438	60.746	27.204	44.405	0.00	0.00
ATOM	6618	N	MET	X	439	61.231	28.715	42.788	0.00	0.00
ATOM	6619	H	MET	X	439	61.918	28.937	42.082	0.00	0.00
ATOM	6620	CA	MET	X	439	59.977	29.477	42.905	0.00	0.00
ATOM	6621	HA	MET	X	439	59.972	29.682	43.976	0.00	0.00
ATOM	6622	CB	MET	X	439	60.138	30.698	42.021	0.00	0.00
ATOM	6623	HB2	MET	X	439	61.172	31.013	42.167	0.00	0.00
ATOM	6624	HB3	MET	X	439	60.131	30.418	40.968	0.00	0.00
ATOM	6625	CG	MET	X	439	59.092	31.830	42.205	0.00	0.00
ATOM	6626	HG2	MET	X	439	58.122	31.390	41.971	0.00	0.00
ATOM	6627	HG3	MET	X	439	59.154	32.081	43.264	0.00	0.00
ATOM	6628	SD	MET	X	439	59.355	33.387	41.284	0.00	0.00
ATOM	6629	CE	MET	X	439	60.816	34.080	42.049	0.00	0.00
ATOM	6630	HE1	MET	X	439	61.766	33.869	41.558	0.00	0.00
ATOM	6631	HE2	MET	X	439	60.641	35.155	42.004	0.00	0.00
ATOM	6632	HE3	MET	X	439	60.927	33.760	43.085	0.00	0.00
ATOM	6633	C	MET	X	439	58.696	28.665	42.534	0.00	0.00
ATOM	6634	O	MET	X	439	57.525	29.038	42.826	0.00	0.00
ATOM	6635	N	GLY	X	440	58.942	27.553	41.913	0.00	0.00
ATOM	6636	H	GLY	X	440	59.906	27.434	41.636	0.00	0.00
ATOM	6637	CA	GLY	X	440	57.941	26.562	41.436	0.00	0.00
ATOM	6638	HA2	GLY	X	440	58.535	25.831	40.888	0.00	0.00
ATOM	6639	HA3	GLY	X	440	57.482	26.156	42.337	0.00	0.00
ATOM	6640	C	GLY	X	440	56.846	27.196	40.495	0.00	0.00
ATOM	6641	O	GLY	X	440	57.111	27.512	39.345	0.00	0.00
ATOM	6642	N	VAL	X	441	55.663	27.321	41.053	0.00	0.00
ATOM	6643	H	VAL	X	441	55.568	26.948	41.987	0.00	0.00
ATOM	6644	CA	VAL	X	441	54.441	27.950	40.541	0.00	0.00
ATOM	6645	HA	VAL	X	441	54.530	28.043	39.458	0.00	0.00
ATOM	6646	CB	VAL	X	441	53.246	26.948	40.713	0.00	0.00
ATOM	6647	HB	VAL	X	441	52.858	26.951	41.732	0.00	0.00
ATOM	6648	CG1	VAL	X	441	52.044	27.395	39.759	0.00	0.00
ATOM	6649	HG11	VAL	X	441	51.194	26.777	40.048	0.00	0.00
ATOM	6650	HG12	VAL	X	441	51.882	28.416	40.103	0.00	0.00
ATOM	6651	HG13	VAL	X	441	52.353	27.332	38.715	0.00	0.00

ATOM	6652	CG2	VAL	X	441	53.572	25.433	40.487	0.00	0.00
ATOM	6653	HG21	VAL	X	441	52.628	24.916	40.657	0.00	0.00
ATOM	6654	HG22	VAL	X	441	54.303	25.062	41.206	0.00	0.00
ATOM	6655	HG23	VAL	X	441	53.994	25.281	39.494	0.00	0.00
ATOM	6656	C	VAL	X	441	54.184	29.242	41.319	0.00	0.00
ATOM	6657	O	VAL	X	441	53.751	29.128	42.442	0.00	0.00
ATOM	6658	N	PRO	X	442	54.312	30.367	40.595	0.00	0.00
ATOM	6659	CD	PRO	X	442	54.927	30.420	39.289	0.00	0.00
ATOM	6660	HD2	PRO	X	442	54.304	30.019	38.490	0.00	0.00
ATOM	6661	HD3	PRO	X	442	55.901	29.932	39.309	0.00	0.00
ATOM	6662	CG	PRO	X	442	55.224	31.861	39.048	0.00	0.00
ATOM	6663	HG2	PRO	X	442	54.394	32.361	38.548	0.00	0.00
ATOM	6664	HG3	PRO	X	442	56.217	31.972	38.613	0.00	0.00
ATOM	6665	CB	PRO	X	442	55.275	32.463	40.470	0.00	0.00
ATOM	6666	HB2	PRO	X	442	55.119	33.539	40.559	0.00	0.00
ATOM	6667	HB3	PRO	X	442	56.270	32.160	40.795	0.00	0.00
ATOM	6668	CA	PRO	X	442	54.263	31.650	41.261	0.00	0.00
ATOM	6669	HA	PRO	X	442	54.652	31.504	42.269	0.00	0.00
ATOM	6670	C	PRO	X	442	52.925	32.298	41.211	0.00	0.00
ATOM	6671	O	PRO	X	442	52.119	32.146	40.290	0.00	0.00
ATOM	6672	N	HIP	X	443	52.674	33.168	42.218	0.00	0.00
ATOM	6673	H	HIP	X	443	53.366	33.198	42.953	0.00	0.00
ATOM	6674	CA	HIP	X	443	51.474	33.932	42.495	0.00	0.00
ATOM	6675	HA	HIP	X	443	50.769	33.113	42.639	0.00	0.00
ATOM	6676	CB	HIP	X	443	51.793	34.773	43.768	0.00	0.00
ATOM	6677	HB2	HIP	X	443	52.064	34.221	44.668	0.00	0.00
ATOM	6678	HB3	HIP	X	443	52.663	35.296	43.369	0.00	0.00
ATOM	6679	CG	HIP	X	443	50.903	35.915	44.132	0.00	0.00
ATOM	6680	ND1	HIP	X	443	49.804	35.924	45.005	0.00	0.00
ATOM	6681	HD1	HIP	X	443	49.365	35.064	45.303	0.00	0.00
ATOM	6682	CE1	HIP	X	443	49.238	37.140	44.952	0.00	0.00
ATOM	6683	HE1	HIP	X	443	48.201	37.262	45.225	0.00	0.00
ATOM	6684	NE2	HIP	X	443	50.030	37.986	44.276	0.00	0.00
ATOM	6685	HE2	HIP	X	443	49.797	38.923	43.982	0.00	0.00
ATOM	6686	CD2	HIP	X	443	51.095	37.227	43.749	0.00	0.00
ATOM	6687	HD2	HIP	X	443	51.969	37.565	43.213	0.00	0.00
ATOM	6688	C	HIP	X	443	51.023	34.806	41.270	0.00	0.00
ATOM	6689	O	HIP	X	443	51.744	35.700	40.761	0.00	0.00
ATOM	6690	N	GLY	X	444	49.795	34.358	40.894	0.00	0.00
ATOM	6691	H	GLY	X	444	49.467	33.494	41.303	0.00	0.00
ATOM	6692	CA	GLY	X	444	49.016	34.948	39.796	0.00	0.00
ATOM	6693	HA2	GLY	X	444	48.008	34.534	39.794	0.00	0.00
ATOM	6694	HA3	GLY	X	444	48.778	36.009	39.866	0.00	0.00
ATOM	6695	C	GLY	X	444	49.465	34.693	38.335	0.00	0.00
ATOM	6696	O	GLY	X	444	49.005	35.400	37.411	0.00	0.00
ATOM	6697	N	TYR	X	445	50.381	33.794	38.107	0.00	0.00
ATOM	6698	H	TYR	X	445	50.791	33.330	38.905	0.00	0.00
ATOM	6699	CA	TYR	X	445	50.765	33.375	36.729	0.00	0.00
ATOM	6700	HA	TYR	X	445	50.584	34.153	35.987	0.00	0.00
ATOM	6701	CB	TYR	X	445	52.325	33.248	36.593	0.00	0.00
ATOM	6702	HB2	TYR	X	445	52.588	32.501	37.343	0.00	0.00
ATOM	6703	HB3	TYR	X	445	52.433	32.967	35.545	0.00	0.00
ATOM	6704	CG	TYR	X	445	53.180	34.516	36.632	0.00	0.00
ATOM	6705	CD1	TYR	X	445	53.850	34.982	35.460	0.00	0.00
ATOM	6706	HD1	TYR	X	445	53.862	34.467	34.511	0.00	0.00
ATOM	6707	CE1	TYR	X	445	54.612	36.150	35.602	0.00	0.00
ATOM	6708	HE1	TYR	X	445	55.116	36.483	34.706	0.00	0.00
ATOM	6709	CZ	TYR	X	445	54.945	36.702	36.853	0.00	0.00
ATOM	6710	OH	TYR	X	445	55.863	37.704	36.997	0.00	0.00
ATOM	6711	HH	TYR	X	445	56.348	37.839	36.179	0.00	0.00
ATOM	6712	CE2	TYR	X	445	54.290	36.218	38.004	0.00	0.00
ATOM	6713	HE2	TYR	X	445	54.514	36.585	38.995	0.00	0.00
ATOM	6714	CD2	TYR	X	445	53.375	35.179	37.874	0.00	0.00
ATOM	6715	HD2	TYR	X	445	52.804	34.824	38.719	0.00	0.00
ATOM	6716	C	TYR	X	445	50.099	32.080	36.224	0.00	0.00
ATOM	6717	O	TYR	X	445	50.540	31.530	35.187	0.00	0.00
ATOM	6718	N	GLU	X	446	49.085	31.483	36.902	0.00	0.00

ATOM	6719	H	GLU	X	446	48.785	31.891	37.776	0.00	0.00
ATOM	6720	CA	GLU	X	446	48.215	30.462	36.315	0.00	0.00
ATOM	6721	HA	GLU	X	446	48.889	29.802	35.769	0.00	0.00
ATOM	6722	CB	GLU	X	446	47.531	29.564	37.378	0.00	0.00
ATOM	6723	HB2	GLU	X	446	47.272	28.684	36.790	0.00	0.00
ATOM	6724	HB3	GLU	X	446	48.235	29.172	38.112	0.00	0.00
ATOM	6725	CG	GLU	X	446	46.223	29.978	37.973	0.00	0.00
ATOM	6726	HG2	GLU	X	446	45.476	30.168	37.202	0.00	0.00
ATOM	6727	HG3	GLU	X	446	45.899	29.123	38.567	0.00	0.00
ATOM	6728	CD	GLU	X	446	46.261	31.187	38.840	0.00	0.00
ATOM	6729	OE1	GLU	X	446	47.277	31.896	38.835	0.00	0.00
ATOM	6730	OE2	GLU	X	446	45.348	31.366	39.605	0.00	0.00
ATOM	6731	C	GLU	X	446	47.097	30.970	35.416	0.00	0.00
ATOM	6732	O	GLU	X	446	46.555	30.240	34.536	0.00	0.00
ATOM	6733	N	ILE	X	447	46.853	32.294	35.468	0.00	0.00
ATOM	6734	H	ILE	X	447	47.346	32.903	36.105	0.00	0.00
ATOM	6735	CA	ILE	X	447	45.760	32.845	34.641	0.00	0.00
ATOM	6736	HA	ILE	X	447	44.814	32.315	34.751	0.00	0.00
ATOM	6737	CB	ILE	X	447	45.415	34.345	35.123	0.00	0.00
ATOM	6738	HB	ILE	X	447	44.580	34.678	34.507	0.00	0.00
ATOM	6739	CG2	ILE	X	447	45.013	34.393	36.640	0.00	0.00
ATOM	6740	HG21	ILE	X	447	45.893	34.355	37.283	0.00	0.00
ATOM	6741	HG22	ILE	X	447	44.226	33.690	36.912	0.00	0.00
ATOM	6742	HG23	ILE	X	447	44.512	35.351	36.777	0.00	0.00
ATOM	6743	CG1	ILE	X	447	46.585	35.267	34.854	0.00	0.00
ATOM	6744	HG12	ILE	X	447	47.458	34.786	35.297	0.00	0.00
ATOM	6745	HG13	ILE	X	447	46.787	35.285	33.783	0.00	0.00
ATOM	6746	CD1	ILE	X	447	46.439	36.717	35.334	0.00	0.00
ATOM	6747	HD11	ILE	X	447	45.492	37.252	35.266	0.00	0.00
ATOM	6748	HD12	ILE	X	447	47.116	37.410	34.834	0.00	0.00
ATOM	6749	HD13	ILE	X	447	46.789	36.770	36.365	0.00	0.00
ATOM	6750	C	ILE	X	447	46.065	32.796	33.180	0.00	0.00
ATOM	6751	O	ILE	X	447	45.075	32.899	32.437	0.00	0.00
ATOM	6752	N	GLU	X	448	47.366	32.507	32.776	0.00	0.00
ATOM	6753	H	GLU	X	448	48.108	32.570	33.459	0.00	0.00
ATOM	6754	CA	GLU	X	448	47.772	32.158	31.455	0.00	0.00
ATOM	6755	HA	GLU	X	448	47.553	32.959	30.749	0.00	0.00
ATOM	6756	CB	GLU	X	448	49.228	31.636	31.446	0.00	0.00
ATOM	6757	HB2	GLU	X	448	49.376	30.771	32.092	0.00	0.00
ATOM	6758	HB3	GLU	X	448	49.449	31.387	30.408	0.00	0.00
ATOM	6759	CG	GLU	X	448	50.287	32.723	31.977	0.00	0.00
ATOM	6760	HG2	GLU	X	448	50.071	33.743	31.660	0.00	0.00
ATOM	6761	HG3	GLU	X	448	50.065	32.847	33.038	0.00	0.00
ATOM	6762	CD	GLU	X	448	51.754	32.269	31.858	0.00	0.00
ATOM	6763	OE1	GLU	X	448	52.567	33.237	31.833	0.00	0.00
ATOM	6764	OE2	GLU	X	448	52.117	31.112	31.809	0.00	0.00
ATOM	6765	C	GLU	X	448	46.803	31.074	30.945	0.00	0.00
ATOM	6766	O	GLU	X	448	46.281	31.123	29.827	0.00	0.00
ATOM	6767	N	PHE	X	449	46.605	30.034	31.736	0.00	0.00
ATOM	6768	H	PHE	X	449	46.903	30.128	32.696	0.00	0.00
ATOM	6769	CA	PHE	X	449	45.950	28.801	31.317	0.00	0.00
ATOM	6770	HA	PHE	X	449	46.287	28.538	30.314	0.00	0.00
ATOM	6771	CB	PHE	X	449	46.418	27.646	32.109	0.00	0.00
ATOM	6772	HB2	PHE	X	449	46.173	27.774	33.163	0.00	0.00
ATOM	6773	HB3	PHE	X	449	45.989	26.708	31.757	0.00	0.00
ATOM	6774	CG	PHE	X	449	47.894	27.371	31.861	0.00	0.00
ATOM	6775	CD1	PHE	X	449	48.803	27.842	32.779	0.00	0.00
ATOM	6776	HD1	PHE	X	449	48.383	28.333	33.644	0.00	0.00
ATOM	6777	CE1	PHE	X	449	50.158	27.613	32.644	0.00	0.00
ATOM	6778	HE1	PHE	X	449	50.810	28.008	33.409	0.00	0.00
ATOM	6779	CZ	PHE	X	449	50.584	26.819	31.550	0.00	0.00
ATOM	6780	HZ	PHE	X	449	51.634	26.657	31.357	0.00	0.00
ATOM	6781	CE2	PHE	X	449	49.702	26.369	30.613	0.00	0.00
ATOM	6782	HE2	PHE	X	449	49.992	25.892	29.688	0.00	0.00
ATOM	6783	CD2	PHE	X	449	48.321	26.509	30.821	0.00	0.00
ATOM	6784	HD2	PHE	X	449	47.646	26.047	30.116	0.00	0.00
ATOM	6785	C	PHE	X	449	44.387	28.898	31.394	0.00	0.00

ATOM	6786	O	PHE	X	449	43.767	28.071	30.776	0.00	0.00
ATOM	6787	N	ILE	X	450	43.872	29.953	32.082	0.00	0.00
ATOM	6788	H	ILE	X	450	44.564	30.546	32.518	0.00	0.00
ATOM	6789	CA	ILE	X	450	42.421	30.272	32.289	0.00	0.00
ATOM	6790	HA	ILE	X	450	41.824	29.360	32.298	0.00	0.00
ATOM	6791	CB	ILE	X	450	42.160	30.846	33.736	0.00	0.00
ATOM	6792	HB	ILE	X	450	42.533	31.870	33.710	0.00	0.00
ATOM	6793	CG2	ILE	X	450	40.653	30.923	34.105	0.00	0.00
ATOM	6794	HG21	ILE	X	450	40.571	31.306	35.122	0.00	0.00
ATOM	6795	HG22	ILE	X	450	40.151	29.959	34.016	0.00	0.00
ATOM	6796	HG23	ILE	X	450	40.236	31.795	33.602	0.00	0.00
ATOM	6797	CG1	ILE	X	450	42.918	30.017	34.833	0.00	0.00
ATOM	6798	HG12	ILE	X	450	43.998	30.040	34.683	0.00	0.00
ATOM	6799	HG13	ILE	X	450	42.759	30.583	35.751	0.00	0.00
ATOM	6800	CD1	ILE	X	450	42.432	28.500	35.041	0.00	0.00
ATOM	6801	HD11	ILE	X	450	42.920	27.980	34.216	0.00	0.00
ATOM	6802	HD12	ILE	X	450	41.348	28.403	34.984	0.00	0.00
ATOM	6803	HD13	ILE	X	450	42.880	28.051	35.928	0.00	0.00
ATOM	6804	C	ILE	X	450	41.781	31.358	31.334	0.00	0.00
ATOM	6805	O	ILE	X	450	40.622	31.207	30.939	0.00	0.00
ATOM	6806	N	PHE	X	451	42.534	32.326	30.790	0.00	0.00
ATOM	6807	H	PHE	X	451	43.402	32.526	31.266	0.00	0.00
ATOM	6808	CA	PHE	X	451	42.279	33.175	29.594	0.00	0.00
ATOM	6809	HA	PHE	X	451	41.225	33.435	29.493	0.00	0.00
ATOM	6810	CB	PHE	X	451	43.089	34.482	29.835	0.00	0.00
ATOM	6811	HB2	PHE	X	451	43.880	34.252	30.550	0.00	0.00
ATOM	6812	HB3	PHE	X	451	43.577	34.901	28.955	0.00	0.00
ATOM	6813	CG	PHE	X	451	42.374	35.636	30.397	0.00	0.00
ATOM	6814	CD1	PHE	X	451	42.713	36.054	31.722	0.00	0.00
ATOM	6815	HD1	PHE	X	451	43.501	35.565	32.275	0.00	0.00
ATOM	6816	CE1	PHE	X	451	42.109	37.230	32.251	0.00	0.00
ATOM	6817	HE1	PHE	X	451	42.258	37.468	33.294	0.00	0.00
ATOM	6818	CZ	PHE	X	451	41.268	37.972	31.381	0.00	0.00
ATOM	6819	HZ	PHE	X	451	40.814	38.916	31.642	0.00	0.00
ATOM	6820	CE2	PHE	X	451	40.948	37.553	30.082	0.00	0.00
ATOM	6821	HE2	PHE	X	451	40.401	38.236	29.450	0.00	0.00
ATOM	6822	CD2	PHE	X	451	41.518	36.430	29.579	0.00	0.00
ATOM	6823	HD2	PHE	X	451	41.399	36.125	28.550	0.00	0.00
ATOM	6824	C	PHE	X	451	42.692	32.476	28.233	0.00	0.00
ATOM	6825	O	PHE	X	451	42.453	32.966	27.125	0.00	0.00
ATOM	6826	N	GLY	X	452	43.424	31.384	28.276	0.00	0.00
ATOM	6827	H	GLY	X	452	43.649	31.085	29.214	0.00	0.00
ATOM	6828	CA	GLY	X	452	43.922	30.616	27.099	0.00	0.00
ATOM	6829	HA2	GLY	X	452	44.153	29.592	27.390	0.00	0.00
ATOM	6830	HA3	GLY	X	452	43.154	30.545	26.329	0.00	0.00
ATOM	6831	C	GLY	X	452	45.238	31.236	26.460	0.00	0.00
ATOM	6832	O	GLY	X	452	45.355	31.111	25.263	0.00	0.00
ATOM	6833	N	ILE	X	453	46.142	31.868	27.217	0.00	0.00
ATOM	6834	H	ILE	X	453	46.113	31.692	28.211	0.00	0.00
ATOM	6835	CA	ILE	X	453	47.349	32.539	26.705	0.00	0.00
ATOM	6836	HA	ILE	X	453	46.968	33.134	25.875	0.00	0.00
ATOM	6837	CB	ILE	X	453	47.876	33.548	27.753	0.00	0.00
ATOM	6838	HB	ILE	X	453	48.107	32.919	28.612	0.00	0.00
ATOM	6839	CG2	ILE	X	453	49.247	34.200	27.392	0.00	0.00
ATOM	6840	HG21	ILE	X	453	49.661	34.749	28.238	0.00	0.00
ATOM	6841	HG22	ILE	X	453	49.130	34.841	26.518	0.00	0.00
ATOM	6842	HG23	ILE	X	453	50.036	33.490	27.143	0.00	0.00
ATOM	6843	CG1	ILE	X	453	46.775	34.489	28.226	0.00	0.00
ATOM	6844	HG12	ILE	X	453	46.075	33.931	28.848	0.00	0.00
ATOM	6845	HG13	ILE	X	453	47.217	35.207	28.916	0.00	0.00
ATOM	6846	CD1	ILE	X	453	46.017	35.358	27.175	0.00	0.00
ATOM	6847	HD11	ILE	X	453	45.516	34.680	26.483	0.00	0.00
ATOM	6848	HD12	ILE	X	453	46.677	36.092	26.714	0.00	0.00
ATOM	6849	HD13	ILE	X	453	45.265	36.068	27.518	0.00	0.00
ATOM	6850	C	ILE	X	453	48.444	31.688	26.024	0.00	0.00
ATOM	6851	O	ILE	X	453	49.118	32.165	25.080	0.00	0.00
ATOM	6852	N	PRO	X	454	48.577	30.426	26.389	0.00	0.00

ATOM	6853	CD	PRO	X	454	48.170	29.829	27.663	0.00	0.00
ATOM	6854	HD2	PRO	X	454	47.102	29.709	27.480	0.00	0.00
ATOM	6855	HD3	PRO	X	454	48.310	30.582	28.438	0.00	0.00
ATOM	6856	CG	PRO	X	454	48.973	28.495	27.751	0.00	0.00
ATOM	6857	HG2	PRO	X	454	48.392	27.718	28.248	0.00	0.00
ATOM	6858	HG3	PRO	X	454	49.846	28.637	28.389	0.00	0.00
ATOM	6859	CB	PRO	X	454	49.290	28.093	26.294	0.00	0.00
ATOM	6860	HB2	PRO	X	454	48.395	27.656	25.850	0.00	0.00
ATOM	6861	HB3	PRO	X	454	50.205	27.502	26.253	0.00	0.00
ATOM	6862	CA	PRO	X	454	49.415	29.482	25.601	0.00	0.00
ATOM	6863	HA	PRO	X	454	50.427	29.851	25.766	0.00	0.00
ATOM	6864	C	PRO	X	454	49.131	29.436	24.124	0.00	0.00
ATOM	6865	O	PRO	X	454	50.116	29.300	23.465	0.00	0.00
ATOM	6866	N	LEU	X	455	47.956	29.829	23.577	0.00	0.00
ATOM	6867	H	LEU	X	455	47.187	30.014	24.206	0.00	0.00
ATOM	6868	CA	LEU	X	455	47.607	29.869	22.176	0.00	0.00
ATOM	6869	HA	LEU	X	455	48.067	28.962	21.784	0.00	0.00
ATOM	6870	CB	LEU	X	455	46.118	29.870	21.910	0.00	0.00
ATOM	6871	HB2	LEU	X	455	45.667	30.639	22.537	0.00	0.00
ATOM	6872	HB3	LEU	X	455	45.875	30.230	20.911	0.00	0.00
ATOM	6873	CG	LEU	X	455	45.459	28.482	22.058	0.00	0.00
ATOM	6874	HG	LEU	X	455	45.936	27.824	21.332	0.00	0.00
ATOM	6875	CD1	LEU	X	455	45.437	27.857	23.503	0.00	0.00
ATOM	6876	HD11	LEU	X	455	44.897	28.535	24.165	0.00	0.00
ATOM	6877	HD12	LEU	X	455	46.422	27.649	23.920	0.00	0.00
ATOM	6878	HD13	LEU	X	455	44.814	26.963	23.516	0.00	0.00
ATOM	6879	CD2	LEU	X	455	44.031	28.665	21.605	0.00	0.00
ATOM	6880	HD21	LEU	X	455	44.050	29.022	20.576	0.00	0.00
ATOM	6881	HD22	LEU	X	455	43.461	27.737	21.562	0.00	0.00
ATOM	6882	HD23	LEU	X	455	43.584	29.429	22.241	0.00	0.00
ATOM	6883	C	LEU	X	455	48.347	30.853	21.355	0.00	0.00
ATOM	6884	O	LEU	X	455	48.346	30.838	20.133	0.00	0.00
ATOM	6885	N	ASP	X	456	48.855	31.910	22.016	0.00	0.00
ATOM	6886	H	ASP	X	456	48.832	31.829	23.022	0.00	0.00
ATOM	6887	CA	ASP	X	456	49.330	33.159	21.447	0.00	0.00
ATOM	6888	HA	ASP	X	456	48.728	33.503	20.606	0.00	0.00
ATOM	6889	CB	ASP	X	456	49.166	34.295	22.474	0.00	0.00
ATOM	6890	HB2	ASP	X	456	48.207	34.344	22.989	0.00	0.00
ATOM	6891	HB3	ASP	X	456	49.818	34.187	23.341	0.00	0.00
ATOM	6892	CG	ASP	X	456	49.324	35.626	21.834	0.00	0.00
ATOM	6893	OD1	ASP	X	456	48.343	36.205	21.327	0.00	0.00
ATOM	6894	OD2	ASP	X	456	50.454	36.119	21.716	0.00	0.00
ATOM	6895	C	ASP	X	456	50.777	33.103	21.007	0.00	0.00
ATOM	6896	O	ASP	X	456	51.642	32.842	21.827	0.00	0.00
ATOM	6897	N	PRO	X	457	51.131	33.447	19.746	0.00	0.00
ATOM	6898	CD	PRO	X	457	50.185	33.596	18.639	0.00	0.00
ATOM	6899	HD2	PRO	X	457	49.660	34.549	18.706	0.00	0.00
ATOM	6900	HD3	PRO	X	457	49.502	32.754	18.750	0.00	0.00
ATOM	6901	CG	PRO	X	457	50.918	33.444	17.289	0.00	0.00
ATOM	6902	HG2	PRO	X	457	50.602	34.135	16.508	0.00	0.00
ATOM	6903	HG3	PRO	X	457	50.809	32.381	17.072	0.00	0.00
ATOM	6904	CB	PRO	X	457	52.322	33.579	17.641	0.00	0.00
ATOM	6905	HB2	PRO	X	457	52.770	34.539	17.383	0.00	0.00
ATOM	6906	HB3	PRO	X	457	52.975	32.886	17.112	0.00	0.00
ATOM	6907	CA	PRO	X	457	52.545	33.382	19.183	0.00	0.00
ATOM	6908	HA	PRO	X	457	52.977	32.410	19.423	0.00	0.00
ATOM	6909	C	PRO	X	457	53.611	34.440	19.641	0.00	0.00
ATOM	6910	O	PRO	X	457	54.718	34.507	19.100	0.00	0.00
ATOM	6911	N	SER	X	458	53.352	35.275	20.726	0.00	0.00
ATOM	6912	H	SER	X	458	52.391	35.216	21.030	0.00	0.00
ATOM	6913	CA	SER	X	458	54.379	36.076	21.530	0.00	0.00
ATOM	6914	HA	SER	X	458	54.986	36.673	20.848	0.00	0.00
ATOM	6915	CB	SER	X	458	53.726	37.181	22.299	0.00	0.00
ATOM	6916	HB2	SER	X	458	54.553	37.755	22.718	0.00	0.00
ATOM	6917	HB3	SER	X	458	53.149	37.835	21.646	0.00	0.00
ATOM	6918	OG	SER	X	458	52.867	36.804	23.306	0.00	0.00
ATOM	6919	HG	SER	X	458	52.076	36.436	22.906	0.00	0.00

ATOM	6920	C	SER	X	458	55.345	35.271	22.369	0.00	0.00
ATOM	6921	O	SER	X	458	56.562	35.615	22.607	0.00	0.00
ATOM	6922	N	ARG	X	459	54.940	34.065	22.780	0.00	0.00
ATOM	6923	H	ARG	X	459	54.058	33.682	22.474	0.00	0.00
ATOM	6924	CA	ARG	X	459	55.792	33.079	23.396	0.00	0.00
ATOM	6925	HA	ARG	X	459	56.827	33.354	23.190	0.00	0.00
ATOM	6926	CB	ARG	X	459	55.596	33.209	24.869	0.00	0.00
ATOM	6927	HB2	ARG	X	459	54.602	32.889	25.184	0.00	0.00
ATOM	6928	HB3	ARG	X	459	56.178	32.426	25.355	0.00	0.00
ATOM	6929	CG	ARG	X	459	55.925	34.593	25.513	0.00	0.00
ATOM	6930	HG2	ARG	X	459	56.848	34.910	25.027	0.00	0.00
ATOM	6931	HG3	ARG	X	459	55.241	35.374	25.182	0.00	0.00
ATOM	6932	CD	ARG	X	459	56.168	34.641	26.960	0.00	0.00
ATOM	6933	HD2	ARG	X	459	56.857	33.847	27.247	0.00	0.00
ATOM	6934	HD3	ARG	X	459	56.737	35.513	27.279	0.00	0.00
ATOM	6935	NE	ARG	X	459	54.864	34.666	27.697	0.00	0.00
ATOM	6936	HE	ARG	X	459	54.004	34.978	27.269	0.00	0.00
ATOM	6937	CZ	ARG	X	459	54.527	34.129	28.891	0.00	0.00
ATOM	6938	NH1	ARG	X	459	55.506	33.833	29.734	0.00	0.00
ATOM	6939	HH11	ARG	X	459	56.445	34.139	29.521	0.00	0.00
ATOM	6940	HH12	ARG	X	459	55.391	33.377	30.628	0.00	0.00
ATOM	6941	NH2	ARG	X	459	53.280	33.986	29.218	0.00	0.00
ATOM	6942	HH21	ARG	X	459	52.630	34.489	28.630	0.00	0.00
ATOM	6943	HH22	ARG	X	459	53.056	33.710	30.164	0.00	0.00
ATOM	6944	C	ARG	X	459	55.392	31.645	23.037	0.00	0.00
ATOM	6945	O	ARG	X	459	54.235	31.382	22.594	0.00	0.00
ATOM	6946	N	ASN	X	460	56.406	30.787	23.118	0.00	0.00
ATOM	6947	H	ASN	X	460	57.269	31.029	23.584	0.00	0.00
ATOM	6948	CA	ASN	X	460	56.333	29.412	22.696	0.00	0.00
ATOM	6949	HA	ASN	X	460	55.715	29.462	21.800	0.00	0.00
ATOM	6950	CB	ASN	X	460	57.740	29.009	22.128	0.00	0.00
ATOM	6951	HB2	ASN	X	460	58.093	29.638	21.311	0.00	0.00
ATOM	6952	HB3	ASN	X	460	58.489	29.130	22.911	0.00	0.00
ATOM	6953	CG	ASN	X	460	57.732	27.567	21.516	0.00	0.00
ATOM	6954	OD1	ASN	X	460	56.811	27.118	20.920	0.00	0.00
ATOM	6955	ND2	ASN	X	460	58.812	26.909	21.555	0.00	0.00
ATOM	6956	HD21	ASN	X	460	58.947	26.048	21.045	0.00	0.00
ATOM	6957	HD22	ASN	X	460	59.636	27.340	21.949	0.00	0.00
ATOM	6958	C	ASN	X	460	55.803	28.371	23.733	0.00	0.00
ATOM	6959	O	ASN	X	460	56.570	27.965	24.603	0.00	0.00
ATOM	6960	N	TYR	X	461	54.523	27.964	23.647	0.00	0.00
ATOM	6961	H	TYR	X	461	53.954	28.269	22.870	0.00	0.00
ATOM	6962	CA	TYR	X	461	53.948	26.862	24.473	0.00	0.00
ATOM	6963	HA	TYR	X	461	54.537	26.660	25.367	0.00	0.00
ATOM	6964	CB	TYR	X	461	52.577	27.360	24.981	0.00	0.00
ATOM	6965	HB2	TYR	X	461	52.123	27.941	24.178	0.00	0.00
ATOM	6966	HB3	TYR	X	461	51.960	26.527	25.316	0.00	0.00
ATOM	6967	CG	TYR	X	461	52.760	28.251	26.188	0.00	0.00
ATOM	6968	CD1	TYR	X	461	52.985	29.639	25.954	0.00	0.00
ATOM	6969	HD1	TYR	X	461	53.072	30.027	24.950	0.00	0.00
ATOM	6970	CE1	TYR	X	461	53.029	30.571	27.026	0.00	0.00
ATOM	6971	HE1	TYR	X	461	53.316	31.601	26.872	0.00	0.00
ATOM	6972	CZ	TYR	X	461	52.915	30.100	28.350	0.00	0.00
ATOM	6973	OH	TYR	X	461	52.931	31.092	29.231	0.00	0.00
ATOM	6974	HH	TYR	X	461	52.746	30.920	30.157	0.00	0.00
ATOM	6975	CE2	TYR	X	461	52.709	28.734	28.623	0.00	0.00
ATOM	6976	HE2	TYR	X	461	52.461	28.436	29.631	0.00	0.00
ATOM	6977	CD2	TYR	X	461	52.615	27.805	27.513	0.00	0.00
ATOM	6978	HD2	TYR	X	461	52.527	26.753	27.745	0.00	0.00
ATOM	6979	C	TYR	X	461	53.804	25.534	23.800	0.00	0.00
ATOM	6980	O	TYR	X	461	53.604	25.502	22.603	0.00	0.00
ATOM	6981	N	THR	X	462	53.890	24.445	24.577	0.00	0.00
ATOM	6982	H	THR	X	462	53.823	24.583	25.575	0.00	0.00
ATOM	6983	CA	THR	X	462	53.759	23.093	24.045	0.00	0.00
ATOM	6984	HA	THR	X	462	54.356	22.945	23.145	0.00	0.00
ATOM	6985	CB	THR	X	462	54.338	22.049	25.053	0.00	0.00
ATOM	6986	HB	THR	X	462	54.309	21.049	24.620	0.00	0.00

ATOM	6987	CG2	THR	X	462	55.770	22.240	25.467	0.00	0.00
ATOM	6988	HG21	THR	X	462	56.383	22.415	24.583	0.00	0.00
ATOM	6989	HG22	THR	X	462	56.033	21.334	26.012	0.00	0.00
ATOM	6990	HG23	THR	X	462	55.974	23.098	26.106	0.00	0.00
ATOM	6991	OG1	THR	X	462	53.522	22.069	26.229	0.00	0.00
ATOM	6992	HG1	THR	X	462	53.468	22.992	26.490	0.00	0.00
ATOM	6993	C	THR	X	462	52.285	22.752	23.730	0.00	0.00
ATOM	6994	O	THR	X	462	51.366	23.433	24.304	0.00	0.00
ATOM	6995	N	ALA	X	463	52.001	21.820	22.839	0.00	0.00
ATOM	6996	H	ALA	X	463	52.813	21.452	22.365	0.00	0.00
ATOM	6997	CA	ALA	X	463	50.676	21.519	22.392	0.00	0.00
ATOM	6998	HA	ALA	X	463	50.062	22.392	22.170	0.00	0.00
ATOM	6999	CB	ALA	X	463	50.705	20.779	21.050	0.00	0.00
ATOM	7000	HB1	ALA	X	463	51.169	19.823	21.291	0.00	0.00
ATOM	7001	HB2	ALA	X	463	51.112	21.441	20.286	0.00	0.00
ATOM	7002	HB3	ALA	X	463	49.665	20.595	20.781	0.00	0.00
ATOM	7003	C	ALA	X	463	49.908	20.887	23.544	0.00	0.00
ATOM	7004	O	ALA	X	463	48.634	20.911	23.616	0.00	0.00
ATOM	7005	N	GLU	X	464	50.629	20.300	24.498	0.00	0.00
ATOM	7006	H	GLU	X	464	51.634	20.276	24.403	0.00	0.00
ATOM	7007	CA	GLU	X	464	50.156	19.656	25.682	0.00	0.00
ATOM	7008	HA	GLU	X	464	49.447	18.929	25.287	0.00	0.00
ATOM	7009	CB	GLU	X	464	51.197	18.839	26.435	0.00	0.00
ATOM	7010	HB2	GLU	X	464	51.437	18.018	25.759	0.00	0.00
ATOM	7011	HB3	GLU	X	464	52.086	19.448	26.600	0.00	0.00
ATOM	7012	CG	GLU	X	464	50.792	18.177	27.764	0.00	0.00
ATOM	7013	HG2	GLU	X	464	51.729	17.909	28.253	0.00	0.00
ATOM	7014	HG3	GLU	X	464	50.255	18.874	28.407	0.00	0.00
ATOM	7015	CD	GLU	X	464	49.967	16.951	27.490	0.00	0.00
ATOM	7016	OE1	GLU	X	464	48.739	16.834	27.653	0.00	0.00
ATOM	7017	OE2	GLU	X	464	50.537	15.995	26.969	0.00	0.00
ATOM	7018	C	GLU	X	464	49.432	20.735	26.583	0.00	0.00
ATOM	7019	O	GLU	X	464	48.263	20.626	26.992	0.00	0.00
ATOM	7020	N	GLU	X	465	50.130	21.838	26.862	0.00	0.00
ATOM	7021	H	GLU	X	465	51.014	21.880	26.375	0.00	0.00
ATOM	7022	CA	GLU	X	465	49.635	23.083	27.553	0.00	0.00
ATOM	7023	HA	GLU	X	465	49.291	22.897	28.570	0.00	0.00
ATOM	7024	CB	GLU	X	465	50.872	24.029	27.628	0.00	0.00
ATOM	7025	HB2	GLU	X	465	51.502	24.129	26.744	0.00	0.00
ATOM	7026	HB3	GLU	X	465	50.530	25.060	27.721	0.00	0.00
ATOM	7027	CG	GLU	X	465	51.788	23.579	28.775	0.00	0.00
ATOM	7028	HG2	GLU	X	465	51.428	23.728	29.793	0.00	0.00
ATOM	7029	HG3	GLU	X	465	52.002	22.536	28.545	0.00	0.00
ATOM	7030	CD	GLU	X	465	53.185	24.334	28.753	0.00	0.00
ATOM	7031	OE1	GLU	X	465	53.891	24.335	27.723	0.00	0.00
ATOM	7032	OE2	GLU	X	465	53.647	24.900	29.750	0.00	0.00
ATOM	7033	C	GLU	X	465	48.500	23.760	26.750	0.00	0.00
ATOM	7034	O	GLU	X	465	47.586	24.337	27.392	0.00	0.00
ATOM	7035	N	LYS	X	466	48.456	23.677	25.413	0.00	0.00
ATOM	7036	H	LYS	X	466	49.172	23.328	24.791	0.00	0.00
ATOM	7037	CA	LYS	X	466	47.262	24.302	24.746	0.00	0.00
ATOM	7038	HA	LYS	X	466	47.113	25.250	25.263	0.00	0.00
ATOM	7039	CB	LYS	X	466	47.643	24.547	23.265	0.00	0.00
ATOM	7040	HB2	LYS	X	466	47.790	23.614	22.722	0.00	0.00
ATOM	7041	HB3	LYS	X	466	46.803	24.986	22.728	0.00	0.00
ATOM	7042	CG	LYS	X	466	48.841	25.503	23.175	0.00	0.00
ATOM	7043	HG2	LYS	X	466	48.601	26.519	23.490	0.00	0.00
ATOM	7044	HG3	LYS	X	466	49.701	25.079	23.692	0.00	0.00
ATOM	7045	CD	LYS	X	466	49.418	25.583	21.792	0.00	0.00
ATOM	7046	HD2	LYS	X	466	49.484	24.621	21.282	0.00	0.00
ATOM	7047	HD3	LYS	X	466	48.699	26.204	21.257	0.00	0.00
ATOM	7048	CE	LYS	X	466	50.757	26.182	21.830	0.00	0.00
ATOM	7049	HE2	LYS	X	466	50.752	27.167	22.297	0.00	0.00
ATOM	7050	HE3	LYS	X	466	51.490	25.566	22.350	0.00	0.00
ATOM	7051	NZ	LYS	X	466	51.312	26.372	20.474	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	51.122	25.660	19.784	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	51.043	27.269	20.097	0.00	0.00

ATOM	7054	HZ3	LYS	X	466	52.320	26.415	20.521	0.00	0.00
ATOM	7055	C	LYS	X	466	45.979	23.489	24.984	0.00	0.00
ATOM	7056	O	LYS	X	466	44.930	24.145	25.023	0.00	0.00
ATOM	7057	N	ILE	X	467	46.079	22.173	25.210	0.00	0.00
ATOM	7058	H	ILE	X	467	47.026	21.828	25.150	0.00	0.00
ATOM	7059	CA	ILE	X	467	45.007	21.263	25.486	0.00	0.00
ATOM	7060	HA	ILE	X	467	44.071	21.366	24.937	0.00	0.00
ATOM	7061	CB	ILE	X	467	45.539	19.824	25.348	0.00	0.00
ATOM	7062	HB	ILE	X	467	46.466	19.762	25.918	0.00	0.00
ATOM	7063	CG2	ILE	X	467	44.629	18.733	25.951	0.00	0.00
ATOM	7064	HG21	ILE	X	467	44.605	18.686	27.040	0.00	0.00
ATOM	7065	HG22	ILE	X	467	45.124	17.780	25.766	0.00	0.00
ATOM	7066	HG23	ILE	X	467	43.593	18.842	25.628	0.00	0.00
ATOM	7067	CG1	ILE	X	467	45.775	19.479	23.803	0.00	0.00
ATOM	7068	HG12	ILE	X	467	44.847	19.071	23.401	0.00	0.00
ATOM	7069	HG13	ILE	X	467	45.938	20.429	23.294	0.00	0.00
ATOM	7070	CD1	ILE	X	467	46.698	18.272	23.553	0.00	0.00
ATOM	7071	HD11	ILE	X	467	47.033	18.273	22.515	0.00	0.00
ATOM	7072	HD12	ILE	X	467	46.204	17.315	23.721	0.00	0.00
ATOM	7073	HD13	ILE	X	467	47.662	18.257	24.062	0.00	0.00
ATOM	7074	C	ILE	X	467	44.584	21.429	26.999	0.00	0.00
ATOM	7075	O	ILE	X	467	43.379	21.571	27.331	0.00	0.00
ATOM	7076	N	PHE	X	468	45.576	21.517	27.910	0.00	0.00
ATOM	7077	H	PHE	X	468	46.513	21.506	27.533	0.00	0.00
ATOM	7078	CA	PHE	X	468	45.360	21.829	29.270	0.00	0.00
ATOM	7079	HA	PHE	X	468	44.763	21.070	29.774	0.00	0.00
ATOM	7080	CB	PHE	X	468	46.711	21.939	29.967	0.00	0.00
ATOM	7081	HB2	PHE	X	468	47.159	20.953	29.848	0.00	0.00
ATOM	7082	HB3	PHE	X	468	47.197	22.771	29.458	0.00	0.00
ATOM	7083	CG	PHE	X	468	46.656	22.386	31.401	0.00	0.00
ATOM	7084	CD1	PHE	X	468	45.844	21.757	32.374	0.00	0.00
ATOM	7085	HD1	PHE	X	468	45.170	21.023	31.957	0.00	0.00
ATOM	7086	CE1	PHE	X	468	46.053	22.061	33.744	0.00	0.00
ATOM	7087	HE1	PHE	X	468	45.521	21.499	34.497	0.00	0.00
ATOM	7088	CZ	PHE	X	468	46.907	23.123	34.125	0.00	0.00
ATOM	7089	HZ	PHE	X	468	47.057	23.292	35.181	0.00	0.00
ATOM	7090	CE2	PHE	X	468	47.710	23.735	33.197	0.00	0.00
ATOM	7091	HE2	PHE	X	468	48.390	24.553	33.384	0.00	0.00
ATOM	7092	CD2	PHE	X	468	47.713	23.286	31.872	0.00	0.00
ATOM	7093	HD2	PHE	X	468	48.434	23.779	31.237	0.00	0.00
ATOM	7094	C	PHE	X	468	44.529	23.113	29.447	0.00	0.00
ATOM	7095	O	PHE	X	468	43.508	23.165	30.167	0.00	0.00
ATOM	7096	N	ALA	X	469	44.989	24.156	28.724	0.00	0.00
ATOM	7097	H	ALA	X	469	45.847	24.117	28.193	0.00	0.00
ATOM	7098	CA	ALA	X	469	44.335	25.420	28.701	0.00	0.00
ATOM	7099	HA	ALA	X	469	44.316	25.820	29.715	0.00	0.00
ATOM	7100	CB	ALA	X	469	45.182	26.388	27.830	0.00	0.00
ATOM	7101	HB1	ALA	X	469	44.596	27.207	27.413	0.00	0.00
ATOM	7102	HB2	ALA	X	469	45.573	25.909	26.932	0.00	0.00
ATOM	7103	HB3	ALA	X	469	46.008	26.765	28.433	0.00	0.00
ATOM	7104	C	ALA	X	469	42.849	25.382	28.347	0.00	0.00
ATOM	7105	O	ALA	X	469	41.993	25.892	29.099	0.00	0.00
ATOM	7106	N	GLN	X	470	42.505	24.737	27.215	0.00	0.00
ATOM	7107	H	GLN	X	470	43.285	24.443	26.644	0.00	0.00
ATOM	7108	CA	GLN	X	470	41.165	24.518	26.727	0.00	0.00
ATOM	7109	HA	GLN	X	470	40.749	25.522	26.631	0.00	0.00
ATOM	7110	CB	GLN	X	470	41.378	23.851	25.329	0.00	0.00
ATOM	7111	HB2	GLN	X	470	42.097	23.032	25.342	0.00	0.00
ATOM	7112	HB3	GLN	X	470	40.414	23.447	25.018	0.00	0.00
ATOM	7113	CG	GLN	X	470	41.870	24.812	24.210	0.00	0.00
ATOM	7114	HG2	GLN	X	470	41.216	25.678	24.111	0.00	0.00
ATOM	7115	HG3	GLN	X	470	42.798	25.315	24.482	0.00	0.00
ATOM	7116	CD	GLN	X	470	42.061	24.138	22.891	0.00	0.00
ATOM	7117	OE1	GLN	X	470	41.142	24.165	22.061	0.00	0.00
ATOM	7118	NE2	GLN	X	470	43.238	23.710	22.512	0.00	0.00
ATOM	7119	HE21	GLN	X	470	43.346	23.341	21.578	0.00	0.00
ATOM	7120	HE22	GLN	X	470	44.008	23.920	23.131	0.00	0.00

ATOM	7121	C	GLN	X	470	40.314	23.712	27.707	0.00	0.00
ATOM	7122	O	GLN	X	470	39.086	23.853	27.635	0.00	0.00
ATOM	7123	N	ARG	X	471	40.882	22.900	28.559	0.00	0.00
ATOM	7124	H	ARG	X	471	41.889	22.871	28.485	0.00	0.00
ATOM	7125	CA	ARG	X	471	40.186	22.055	29.568	0.00	0.00
ATOM	7126	HA	ARG	X	471	39.358	21.541	29.079	0.00	0.00
ATOM	7127	CB	ARG	X	471	41.121	20.887	30.010	0.00	0.00
ATOM	7128	HB2	ARG	X	471	41.165	20.298	29.094	0.00	0.00
ATOM	7129	HB3	ARG	X	471	42.096	21.359	30.126	0.00	0.00
ATOM	7130	CG	ARG	X	471	40.810	19.977	31.253	0.00	0.00
ATOM	7131	HG2	ARG	X	471	40.813	20.569	32.168	0.00	0.00
ATOM	7132	HG3	ARG	X	471	39.843	19.508	31.071	0.00	0.00
ATOM	7133	CD	ARG	X	471	41.949	18.910	31.314	0.00	0.00
ATOM	7134	HD2	ARG	X	471	41.853	18.158	30.530	0.00	0.00
ATOM	7135	HD3	ARG	X	471	42.864	19.492	31.205	0.00	0.00
ATOM	7136	NE	ARG	X	471	41.897	18.183	32.542	0.00	0.00
ATOM	7137	HE	ARG	X	471	41.036	17.735	32.821	0.00	0.00
ATOM	7138	CZ	ARG	X	471	42.839	18.162	33.532	0.00	0.00
ATOM	7139	NH1	ARG	X	471	44.094	18.328	33.228	0.00	0.00
ATOM	7140	HH11	ARG	X	471	44.380	18.255	32.262	0.00	0.00
ATOM	7141	HH12	ARG	X	471	44.855	18.191	33.877	0.00	0.00
ATOM	7142	NH2	ARG	X	471	42.611	17.915	34.801	0.00	0.00
ATOM	7143	HH21	ARG	X	471	41.663	17.728	35.095	0.00	0.00
ATOM	7144	HH22	ARG	X	471	43.407	17.790	35.410	0.00	0.00
ATOM	7145	C	ARG	X	471	39.725	22.968	30.718	0.00	0.00
ATOM	7146	O	ARG	X	471	38.643	22.842	31.324	0.00	0.00
ATOM	7147	N	LEU	X	472	40.675	23.879	31.028	0.00	0.00
ATOM	7148	H	LEU	X	472	41.590	23.699	30.641	0.00	0.00
ATOM	7149	CA	LEU	X	472	40.583	24.828	32.171	0.00	0.00
ATOM	7150	HA	LEU	X	472	40.249	24.354	33.094	0.00	0.00
ATOM	7151	CB	LEU	X	472	41.980	25.378	32.528	0.00	0.00
ATOM	7152	HB2	LEU	X	472	42.594	25.308	31.630	0.00	0.00
ATOM	7153	HB3	LEU	X	472	41.986	26.429	32.817	0.00	0.00
ATOM	7154	CG	LEU	X	472	42.682	24.707	33.729	0.00	0.00
ATOM	7155	HG	LEU	X	472	42.230	25.114	34.634	0.00	0.00
ATOM	7156	CD1	LEU	X	472	42.572	23.185	33.727	0.00	0.00
ATOM	7157	HD11	LEU	X	472	42.966	22.846	34.685	0.00	0.00
ATOM	7158	HD12	LEU	X	472	43.118	22.720	32.906	0.00	0.00
ATOM	7159	HD13	LEU	X	472	41.518	22.908	33.710	0.00	0.00
ATOM	7160	CD2	LEU	X	472	44.124	25.228	33.658	0.00	0.00
ATOM	7161	HD21	LEU	X	472	44.477	24.780	32.729	0.00	0.00
ATOM	7162	HD22	LEU	X	472	44.165	26.310	33.536	0.00	0.00
ATOM	7163	HD23	LEU	X	472	44.638	24.892	34.558	0.00	0.00
ATOM	7164	C	LEU	X	472	39.652	26.005	31.881	0.00	0.00
ATOM	7165	O	LEU	X	472	38.823	26.264	32.726	0.00	0.00
ATOM	7166	N	MET	X	473	39.819	26.668	30.688	0.00	0.00
ATOM	7167	H	MET	X	473	40.622	26.457	30.114	0.00	0.00
ATOM	7168	CA	MET	X	473	38.908	27.704	30.183	0.00	0.00
ATOM	7169	HA	MET	X	473	38.938	28.571	30.844	0.00	0.00
ATOM	7170	CB	MET	X	473	39.263	28.182	28.741	0.00	0.00
ATOM	7171	HB2	MET	X	473	39.131	27.304	28.110	0.00	0.00
ATOM	7172	HB3	MET	X	473	38.567	28.900	28.306	0.00	0.00
ATOM	7173	CG	MET	X	473	40.698	28.770	28.709	0.00	0.00
ATOM	7174	HG2	MET	X	473	40.499	29.834	28.839	0.00	0.00
ATOM	7175	HG3	MET	X	473	41.331	28.255	29.431	0.00	0.00
ATOM	7176	SD	MET	X	473	41.445	28.504	27.111	0.00	0.00
ATOM	7177	CE	MET	X	473	40.401	29.684	26.182	0.00	0.00
ATOM	7178	HE1	MET	X	473	40.721	30.702	26.402	0.00	0.00
ATOM	7179	HE2	MET	X	473	40.534	29.525	25.112	0.00	0.00
ATOM	7180	HE3	MET	X	473	39.350	29.602	26.460	0.00	0.00
ATOM	7181	C	MET	X	473	37.545	27.127	30.237	0.00	0.00
ATOM	7182	O	MET	X	473	36.537	27.781	30.454	0.00	0.00
ATOM	7183	N	ARG	X	474	37.405	25.819	29.938	0.00	0.00
ATOM	7184	H	ARG	X	474	38.163	25.265	29.567	0.00	0.00
ATOM	7185	CA	ARG	X	474	36.056	25.117	29.842	0.00	0.00
ATOM	7186	HA	ARG	X	474	35.464	25.855	29.301	0.00	0.00
ATOM	7187	CB	ARG	X	474	36.103	23.859	28.919	0.00	0.00

ATOM	7188	HB2	ARG	X	474	36.499	24.268	27.989	0.00	0.00
ATOM	7189	HB3	ARG	X	474	36.830	23.153	29.320	0.00	0.00
ATOM	7190	CG	ARG	X	474	34.798	23.031	28.680	0.00	0.00
ATOM	7191	HG2	ARG	X	474	35.062	22.225	27.996	0.00	0.00
ATOM	7192	HG3	ARG	X	474	34.411	22.653	29.626	0.00	0.00
ATOM	7193	CD	ARG	X	474	33.666	23.810	28.100	0.00	0.00
ATOM	7194	HD2	ARG	X	474	33.497	24.801	28.522	0.00	0.00
ATOM	7195	HD3	ARG	X	474	33.823	23.823	27.021	0.00	0.00
ATOM	7196	NE	ARG	X	474	32.508	23.003	28.433	0.00	0.00
ATOM	7197	HE	ARG	X	474	32.672	22.191	29.012	0.00	0.00
ATOM	7198	CZ	ARG	X	474	31.373	23.044	27.845	0.00	0.00
ATOM	7199	NH1	ARG	X	474	31.077	23.979	27.036	0.00	0.00
ATOM	7200	HH11	ARG	X	474	31.766	24.577	26.603	0.00	0.00
ATOM	7201	HH12	ARG	X	474	30.091	24.064	26.836	0.00	0.00
ATOM	7202	NH2	ARG	X	474	30.483	22.174	28.054	0.00	0.00
ATOM	7203	HH21	ARG	X	474	30.630	21.461	28.755	0.00	0.00
ATOM	7204	HH22	ARG	X	474	29.625	22.299	27.535	0.00	0.00
ATOM	7205	C	ARG	X	474	35.474	24.820	31.225	0.00	0.00
ATOM	7206	O	ARG	X	474	34.249	24.693	31.250	0.00	0.00
ATOM	7207	N	TYR	X	475	36.196	24.713	32.356	0.00	0.00
ATOM	7208	H	TYR	X	475	37.189	24.589	32.223	0.00	0.00
ATOM	7209	CA	TYR	X	475	35.581	24.570	33.685	0.00	0.00
ATOM	7210	HA	TYR	X	475	34.653	23.999	33.658	0.00	0.00
ATOM	7211	CB	TYR	X	475	36.562	23.966	34.727	0.00	0.00
ATOM	7212	HB2	TYR	X	475	37.441	24.605	34.808	0.00	0.00
ATOM	7213	HB3	TYR	X	475	36.031	23.736	35.651	0.00	0.00
ATOM	7214	CG	TYR	X	475	37.185	22.636	34.423	0.00	0.00
ATOM	7215	CD1	TYR	X	475	36.422	21.589	33.884	0.00	0.00
ATOM	7216	HD1	TYR	X	475	35.374	21.670	33.636	0.00	0.00
ATOM	7217	CE1	TYR	X	475	36.969	20.351	33.583	0.00	0.00
ATOM	7218	HE1	TYR	X	475	36.238	19.651	33.206	0.00	0.00
ATOM	7219	CZ	TYR	X	475	38.326	20.124	33.743	0.00	0.00
ATOM	7220	OH	TYR	X	475	38.878	18.997	33.253	0.00	0.00
ATOM	7221	HH	TYR	X	475	38.227	18.404	32.870	0.00	0.00
ATOM	7222	CE2	TYR	X	475	39.132	21.187	34.201	0.00	0.00
ATOM	7223	HE2	TYR	X	475	40.205	21.071	34.223	0.00	0.00
ATOM	7224	CD2	TYR	X	475	38.539	22.461	34.542	0.00	0.00
ATOM	7225	HD2	TYR	X	475	39.206	23.263	34.823	0.00	0.00
ATOM	7226	C	TYR	X	475	35.193	25.959	34.097	0.00	0.00
ATOM	7227	O	TYR	X	475	34.068	26.127	34.615	0.00	0.00
ATOM	7228	N	TRP	X	476	36.081	26.996	33.965	0.00	0.00
ATOM	7229	H	TRP	X	476	37.070	26.885	33.790	0.00	0.00
ATOM	7230	CA	TRP	X	476	35.732	28.358	34.446	0.00	0.00
ATOM	7231	HA	TRP	X	476	35.497	28.363	35.511	0.00	0.00
ATOM	7232	CB	TRP	X	476	36.976	29.311	34.219	0.00	0.00
ATOM	7233	HB2	TRP	X	476	37.569	29.195	33.312	0.00	0.00
ATOM	7234	HB3	TRP	X	476	36.574	30.297	33.985	0.00	0.00
ATOM	7235	CG	TRP	X	476	37.860	29.497	35.391	0.00	0.00
ATOM	7236	CD1	TRP	X	476	38.035	30.554	36.131	0.00	0.00
ATOM	7237	HD1	TRP	X	476	37.502	31.491	36.066	0.00	0.00
ATOM	7238	NE1	TRP	X	476	39.019	30.377	37.116	0.00	0.00
ATOM	7239	HE1	TRP	X	476	39.414	31.146	37.638	0.00	0.00
ATOM	7240	CE2	TRP	X	476	39.398	29.095	37.105	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	40.329	28.470	37.978	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	40.760	29.043	38.785	0.00	0.00
ATOM	7243	CH2	TRP	X	476	40.677	27.150	37.822	0.00	0.00
ATOM	7244	HH2	TRP	X	476	41.342	26.660	38.518	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	39.959	26.483	36.783	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	40.139	25.439	36.572	0.00	0.00
ATOM	7247	CE3	TRP	X	476	39.085	27.147	35.892	0.00	0.00
ATOM	7248	HE3	TRP	X	476	38.811	26.586	35.011	0.00	0.00
ATOM	7249	CD2	TRP	X	476	38.739	28.507	36.005	0.00	0.00
ATOM	7250	C	TRP	X	476	34.592	29.002	33.696	0.00	0.00
ATOM	7251	O	TRP	X	476	33.823	29.636	34.374	0.00	0.00
ATOM	7252	N	ALA	X	477	34.408	28.701	32.421	0.00	0.00
ATOM	7253	H	ALA	X	477	35.029	28.175	31.824	0.00	0.00
ATOM	7254	CA	ALA	X	477	33.203	29.150	31.778	0.00	0.00

ATOM	7255	HA	ALA	X	477	33.128	30.199	32.066	0.00	0.00
ATOM	7256	CB	ALA	X	477	33.334	29.219	30.271	0.00	0.00
ATOM	7257	HB1	ALA	X	477	32.586	29.945	29.953	0.00	0.00
ATOM	7258	HB2	ALA	X	477	33.309	28.222	29.830	0.00	0.00
ATOM	7259	HB3	ALA	X	477	34.308	29.634	30.009	0.00	0.00
ATOM	7260	C	ALA	X	477	32.009	28.229	32.164	0.00	0.00
ATOM	7261	O	ALA	X	477	30.906	28.724	32.334	0.00	0.00
ATOM	7262	N	ASN	X	478	32.205	26.990	32.497	0.00	0.00
ATOM	7263	H	ASN	X	478	33.115	26.588	32.320	0.00	0.00
ATOM	7264	CA	ASN	X	478	31.128	26.129	33.094	0.00	0.00
ATOM	7265	HA	ASN	X	478	30.296	26.171	32.391	0.00	0.00
ATOM	7266	CB	ASN	X	478	31.542	24.662	33.297	0.00	0.00
ATOM	7267	HB2	ASN	X	478	32.579	24.694	33.633	0.00	0.00
ATOM	7268	HB3	ASN	X	478	30.852	24.231	34.022	0.00	0.00
ATOM	7269	CG	ASN	X	478	31.396	23.826	31.997	0.00	0.00
ATOM	7270	OD1	ASN	X	478	30.771	24.146	30.994	0.00	0.00
ATOM	7271	ND2	ASN	X	478	32.076	22.697	31.985	0.00	0.00
ATOM	7272	HD21	ASN	X	478	32.039	22.117	31.159	0.00	0.00
ATOM	7273	HD22	ASN	X	478	32.470	22.380	32.860	0.00	0.00
ATOM	7274	C	ASN	X	478	30.578	26.649	34.452	0.00	0.00
ATOM	7275	O	ASN	X	478	29.355	26.676	34.623	0.00	0.00
ATOM	7276	N	PHE	X	479	31.443	27.117	35.301	0.00	0.00
ATOM	7277	H	PHE	X	479	32.428	27.042	35.093	0.00	0.00
ATOM	7278	CA	PHE	X	479	31.055	27.829	36.495	0.00	0.00
ATOM	7279	HA	PHE	X	479	30.423	27.151	37.069	0.00	0.00
ATOM	7280	CB	PHE	X	479	32.397	28.158	37.282	0.00	0.00
ATOM	7281	HB2	PHE	X	479	32.623	27.188	37.724	0.00	0.00
ATOM	7282	HB3	PHE	X	479	33.176	28.595	36.657	0.00	0.00
ATOM	7283	CG	PHE	X	479	32.078	29.030	38.469	0.00	0.00
ATOM	7284	CD1	PHE	X	479	31.380	28.459	39.594	0.00	0.00
ATOM	7285	HD1	PHE	X	479	31.189	27.404	39.715	0.00	0.00
ATOM	7286	CE1	PHE	X	479	30.906	29.292	40.625	0.00	0.00
ATOM	7287	HE1	PHE	X	479	30.318	28.788	41.378	0.00	0.00
ATOM	7288	CZ	PHE	X	479	31.152	30.652	40.515	0.00	0.00
ATOM	7289	HZ	PHE	X	479	30.885	31.277	41.355	0.00	0.00
ATOM	7290	CE2	PHE	X	479	31.880	31.208	39.523	0.00	0.00
ATOM	7291	HE2	PHE	X	479	32.066	32.272	39.508	0.00	0.00
ATOM	7292	CD2	PHE	X	479	32.196	30.388	38.426	0.00	0.00
ATOM	7293	HD2	PHE	X	479	32.702	30.841	37.586	0.00	0.00
ATOM	7294	C	PHE	X	479	30.204	29.066	36.101	0.00	0.00
ATOM	7295	O	PHE	X	479	29.074	29.110	36.523	0.00	0.00
ATOM	7296	N	ALA	X	480	30.702	29.964	35.303	0.00	0.00
ATOM	7297	H	ALA	X	480	31.634	29.847	34.932	0.00	0.00
ATOM	7298	CA	ALA	X	480	30.051	31.168	34.760	0.00	0.00
ATOM	7299	HA	ALA	X	480	29.912	31.861	35.589	0.00	0.00
ATOM	7300	CB	ALA	X	480	30.986	31.802	33.762	0.00	0.00
ATOM	7301	HB1	ALA	X	480	30.546	32.781	33.571	0.00	0.00
ATOM	7302	HB2	ALA	X	480	30.967	31.264	32.814	0.00	0.00
ATOM	7303	HB3	ALA	X	480	31.964	31.846	34.240	0.00	0.00
ATOM	7304	C	ALA	X	480	28.611	30.991	34.207	0.00	0.00
ATOM	7305	O	ALA	X	480	27.658	31.839	34.370	0.00	0.00
ATOM	7306	N	ARG	X	481	28.384	29.864	33.611	0.00	0.00
ATOM	7307	H	ARG	X	481	29.121	29.175	33.571	0.00	0.00
ATOM	7308	CA	ARG	X	481	27.134	29.470	32.952	0.00	0.00
ATOM	7309	HA	ARG	X	481	26.773	30.354	32.426	0.00	0.00
ATOM	7310	CB	ARG	X	481	27.287	28.287	31.938	0.00	0.00
ATOM	7311	HB2	ARG	X	481	27.900	27.507	32.390	0.00	0.00
ATOM	7312	HB3	ARG	X	481	26.306	27.893	31.671	0.00	0.00
ATOM	7313	CG	ARG	X	481	28.014	28.620	30.654	0.00	0.00
ATOM	7314	HG2	ARG	X	481	27.387	29.259	30.031	0.00	0.00
ATOM	7315	HG3	ARG	X	481	28.887	29.207	30.937	0.00	0.00
ATOM	7316	CD	ARG	X	481	28.507	27.362	29.837	0.00	0.00
ATOM	7317	HD2	ARG	X	481	29.233	26.770	30.394	0.00	0.00
ATOM	7318	HD3	ARG	X	481	27.627	26.805	29.514	0.00	0.00
ATOM	7319	NE	ARG	X	481	29.227	27.700	28.551	0.00	0.00
ATOM	7320	HE	ARG	X	481	28.750	28.351	27.943	0.00	0.00
ATOM	7321	CZ	ARG	X	481	30.384	27.255	28.093	0.00	0.00

ATOM	7322	NH1	ARG	X	481	31.119	26.486	28.823	0.00	0.00
ATOM	7323	HH11	ARG	X	481	30.941	26.292	29.798	0.00	0.00
ATOM	7324	HH12	ARG	X	481	31.940	26.055	28.423	0.00	0.00
ATOM	7325	NH2	ARG	X	481	30.933	27.718	26.986	0.00	0.00
ATOM	7326	HH21	ARG	X	481	30.610	28.483	26.411	0.00	0.00
ATOM	7327	HH22	ARG	X	481	31.796	27.277	26.704	0.00	0.00
ATOM	7328	C	ARG	X	481	26.019	29.125	34.009	0.00	0.00
ATOM	7329	O	ARG	X	481	24.947	29.739	33.998	0.00	0.00
ATOM	7330	N	THR	X	482	26.228	28.089	34.833	0.00	0.00
ATOM	7331	H	THR	X	482	27.055	27.622	34.489	0.00	0.00
ATOM	7332	CA	THR	X	482	25.199	27.323	35.636	0.00	0.00
ATOM	7333	HA	THR	X	482	24.263	27.866	35.499	0.00	0.00
ATOM	7334	CB	THR	X	482	24.988	25.891	35.081	0.00	0.00
ATOM	7335	HB	THR	X	482	25.816	25.225	35.324	0.00	0.00
ATOM	7336	CG2	THR	X	482	23.636	25.165	35.517	0.00	0.00
ATOM	7337	HG21	THR	X	482	23.553	25.053	36.598	0.00	0.00
ATOM	7338	HG22	THR	X	482	23.786	24.115	35.266	0.00	0.00
ATOM	7339	HG23	THR	X	482	22.740	25.687	35.179	0.00	0.00
ATOM	7340	OG1	THR	X	482	24.958	26.003	33.666	0.00	0.00
ATOM	7341	HG1	THR	X	482	25.450	25.223	33.398	0.00	0.00
ATOM	7342	C	THR	X	482	25.578	27.334	37.111	0.00	0.00
ATOM	7343	O	THR	X	482	24.794	26.849	37.963	0.00	0.00
ATOM	7344	N	GLY	X	483	26.719	27.938	37.522	0.00	0.00
ATOM	7345	H	GLY	X	483	27.340	28.456	36.916	0.00	0.00
ATOM	7346	CA	GLY	X	483	27.156	27.757	38.893	0.00	0.00
ATOM	7347	HA2	GLY	X	483	27.750	28.662	39.020	0.00	0.00
ATOM	7348	HA3	GLY	X	483	26.253	27.803	39.501	0.00	0.00
ATOM	7349	C	GLY	X	483	28.039	26.636	39.250	0.00	0.00
ATOM	7350	O	GLY	X	483	28.132	26.335	40.435	0.00	0.00
ATOM	7351	N	ASP	X	484	28.677	25.820	38.347	0.00	0.00
ATOM	7352	H	ASP	X	484	28.495	26.055	37.382	0.00	0.00
ATOM	7353	CA	ASP	X	484	29.250	24.508	38.515	0.00	0.00
ATOM	7354	HA	ASP	X	484	29.737	24.469	39.489	0.00	0.00
ATOM	7355	CB	ASP	X	484	28.113	23.479	38.480	0.00	0.00
ATOM	7356	HB2	ASP	X	484	27.362	23.687	39.242	0.00	0.00
ATOM	7357	HB3	ASP	X	484	27.655	23.553	37.494	0.00	0.00
ATOM	7358	CG	ASP	X	484	28.554	22.007	38.685	0.00	0.00
ATOM	7359	OD1	ASP	X	484	27.637	21.164	38.831	0.00	0.00
ATOM	7360	OD2	ASP	X	484	29.776	21.710	38.891	0.00	0.00
ATOM	7361	C	ASP	X	484	30.324	24.295	37.405	0.00	0.00
ATOM	7362	O	ASP	X	484	29.936	24.333	36.267	0.00	0.00
ATOM	7363	N	PRO	X	485	31.557	24.117	37.830	0.00	0.00
ATOM	7364	CD	PRO	X	485	32.107	24.212	39.250	0.00	0.00
ATOM	7365	HD2	PRO	X	485	31.584	23.682	40.046	0.00	0.00
ATOM	7366	HD3	PRO	X	485	32.196	25.263	39.524	0.00	0.00
ATOM	7367	CG	PRO	X	485	33.515	23.687	39.155	0.00	0.00
ATOM	7368	HG2	PRO	X	485	33.498	22.605	39.292	0.00	0.00
ATOM	7369	HG3	PRO	X	485	34.180	24.025	39.950	0.00	0.00
ATOM	7370	CB	PRO	X	485	33.967	23.969	37.756	0.00	0.00
ATOM	7371	HB2	PRO	X	485	34.681	23.220	37.415	0.00	0.00
ATOM	7372	HB3	PRO	X	485	34.279	25.007	37.640	0.00	0.00
ATOM	7373	CA	PRO	X	485	32.660	23.860	36.914	0.00	0.00
ATOM	7374	HA	PRO	X	485	32.671	24.636	36.148	0.00	0.00
ATOM	7375	C	PRO	X	485	32.476	22.428	36.285	0.00	0.00
ATOM	7376	O	PRO	X	485	33.020	22.249	35.177	0.00	0.00
ATOM	7377	N	ASN	X	486	31.789	21.481	36.918	0.00	0.00
ATOM	7378	H	ASN	X	486	31.327	21.749	37.775	0.00	0.00
ATOM	7379	CA	ASN	X	486	31.635	20.130	36.418	0.00	0.00
ATOM	7380	HA	ASN	X	486	32.617	19.656	36.423	0.00	0.00
ATOM	7381	CB	ASN	X	486	30.794	19.243	37.383	0.00	0.00
ATOM	7382	HB2	ASN	X	486	30.910	19.607	38.404	0.00	0.00
ATOM	7383	HB3	ASN	X	486	29.753	19.442	37.130	0.00	0.00
ATOM	7384	CG	ASN	X	486	30.941	17.750	37.334	0.00	0.00
ATOM	7385	OD1	ASN	X	486	31.371	17.089	38.217	0.00	0.00
ATOM	7386	ND2	ASN	X	486	30.656	17.201	36.197	0.00	0.00
ATOM	7387	HD21	ASN	X	486	30.802	16.202	36.185	0.00	0.00
ATOM	7388	HD22	ASN	X	486	30.157	17.637	35.434	0.00	0.00

ATOM	7389	C	ASN	X	486	31.143	20.194	34.979	0.00	0.00
ATOM	7390	O	ASN	X	486	30.287	21.005	34.682	0.00	0.00
ATOM	7391	N	GLU	X	487	31.625	19.281	34.097	0.00	0.00
ATOM	7392	H	GLU	X	487	32.181	18.507	34.432	0.00	0.00
ATOM	7393	CA	GLU	X	487	31.310	19.231	32.651	0.00	0.00
ATOM	7394	HA	GLU	X	487	31.310	20.233	32.221	0.00	0.00
ATOM	7395	CB	GLU	X	487	32.378	18.450	31.880	0.00	0.00
ATOM	7396	HB2	GLU	X	487	32.751	17.592	32.439	0.00	0.00
ATOM	7397	HB3	GLU	X	487	31.901	17.940	31.043	0.00	0.00
ATOM	7398	CG	GLU	X	487	33.464	19.377	31.420	0.00	0.00
ATOM	7399	HG2	GLU	X	487	33.618	20.160	32.162	0.00	0.00
ATOM	7400	HG3	GLU	X	487	34.344	18.757	31.246	0.00	0.00
ATOM	7401	CD	GLU	X	487	33.160	20.074	30.137	0.00	0.00
ATOM	7402	OE1	GLU	X	487	34.079	20.164	29.278	0.00	0.00
ATOM	7403	OE2	GLU	X	487	32.051	20.599	30.000	0.00	0.00
ATOM	7404	C	GLU	X	487	29.955	18.620	32.429	0.00	0.00
ATOM	7405	O	GLU	X	487	29.768	17.381	32.572	0.00	0.00
ATOM	7406	N	PRO	X	488	28.891	19.375	32.100	0.00	0.00
ATOM	7407	CD	PRO	X	488	28.877	20.738	31.415	0.00	0.00
ATOM	7408	HD2	PRO	X	488	29.651	20.777	30.649	0.00	0.00
ATOM	7409	HD3	PRO	X	488	29.159	21.550	32.085	0.00	0.00
ATOM	7410	CG	PRO	X	488	27.486	20.932	30.899	0.00	0.00
ATOM	7411	HG2	PRO	X	488	27.422	20.510	29.896	0.00	0.00
ATOM	7412	HG3	PRO	X	488	27.165	21.972	30.837	0.00	0.00
ATOM	7413	CB	PRO	X	488	26.554	20.098	31.899	0.00	0.00
ATOM	7414	HB2	PRO	X	488	25.612	19.762	31.464	0.00	0.00
ATOM	7415	HB3	PRO	X	488	26.442	20.510	32.901	0.00	0.00
ATOM	7416	CA	PRO	X	488	27.512	18.892	32.104	0.00	0.00
ATOM	7417	HA	PRO	X	488	27.325	18.319	33.012	0.00	0.00
ATOM	7418	C	PRO	X	488	27.238	17.888	31.011	0.00	0.00
ATOM	7419	O	PRO	X	488	26.291	17.109	31.105	0.00	0.00
ATOM	7420	N	ARG	X	489	28.080	17.818	29.974	0.00	0.00
ATOM	7421	H	ARG	X	489	28.847	18.470	30.055	0.00	0.00
ATOM	7422	CA	ARG	X	489	27.940	16.857	28.863	0.00	0.00
ATOM	7423	HA	ARG	X	489	26.920	16.887	28.480	0.00	0.00
ATOM	7424	CB	ARG	X	489	28.963	17.234	27.675	0.00	0.00
ATOM	7425	HB2	ARG	X	489	28.951	16.498	26.871	0.00	0.00
ATOM	7426	HB3	ARG	X	489	28.543	18.173	27.315	0.00	0.00
ATOM	7427	CG	ARG	X	489	30.420	17.519	28.097	0.00	0.00
ATOM	7428	HG2	ARG	X	489	30.379	18.020	29.064	0.00	0.00
ATOM	7429	HG3	ARG	X	489	30.889	16.541	28.211	0.00	0.00
ATOM	7430	CD	ARG	X	489	31.173	18.305	27.019	0.00	0.00
ATOM	7431	HD2	ARG	X	489	31.001	17.807	26.065	0.00	0.00
ATOM	7432	HD3	ARG	X	489	30.709	19.271	26.820	0.00	0.00
ATOM	7433	NE	ARG	X	489	32.605	18.543	27.397	0.00	0.00
ATOM	7434	HE	ARG	X	489	32.711	19.390	27.937	0.00	0.00
ATOM	7435	CZ	ARG	X	489	33.666	17.855	27.058	0.00	0.00
ATOM	7436	NH1	ARG	X	489	34.815	18.354	27.356	0.00	0.00
ATOM	7437	HH11	ARG	X	489	34.901	19.201	27.900	0.00	0.00
ATOM	7438	HH12	ARG	X	489	35.636	17.834	27.081	0.00	0.00
ATOM	7439	NH2	ARG	X	489	33.566	16.656	26.545	0.00	0.00
ATOM	7440	HH21	ARG	X	489	32.631	16.419	26.246	0.00	0.00
ATOM	7441	HH22	ARG	X	489	34.412	16.105	26.528	0.00	0.00
ATOM	7442	C	ARG	X	489	28.342	15.465	29.311	0.00	0.00
ATOM	7443	O	ARG	X	489	28.277	14.537	28.485	0.00	0.00
ATOM	7444	N	ASP	X	490	28.841	15.347	30.587	0.00	0.00
ATOM	7445	H	ASP	X	490	28.821	16.200	31.127	0.00	0.00
ATOM	7446	CA	ASP	X	490	29.187	14.169	31.295	0.00	0.00
ATOM	7447	HA	ASP	X	490	29.594	14.481	32.257	0.00	0.00
ATOM	7448	CB	ASP	X	490	27.811	13.534	31.549	0.00	0.00
ATOM	7449	HB2	ASP	X	490	27.090	14.186	32.044	0.00	0.00
ATOM	7450	HB3	ASP	X	490	27.377	13.190	30.611	0.00	0.00
ATOM	7451	CG	ASP	X	490	27.869	12.226	32.358	0.00	0.00
ATOM	7452	OD1	ASP	X	490	27.187	11.229	31.992	0.00	0.00
ATOM	7453	OD2	ASP	X	490	28.514	12.280	33.452	0.00	0.00
ATOM	7454	C	ASP	X	490	30.266	13.271	30.649	0.00	0.00
ATOM	7455	O	ASP	X	490	29.980	12.139	30.314	0.00	0.00

ATOM	7456	N	PRO	X	491	31.475	13.742	30.413	0.00	0.00
ATOM	7457	CD	PRO	X	491	32.090	15.012	30.802	0.00	0.00
ATOM	7458	HD2	PRO	X	491	32.036	15.256	31.864	0.00	0.00
ATOM	7459	HD3	PRO	X	491	31.578	15.800	30.249	0.00	0.00
ATOM	7460	CG	PRO	X	491	33.542	14.922	30.347	0.00	0.00
ATOM	7461	HG2	PRO	X	491	34.175	14.610	31.177	0.00	0.00
ATOM	7462	HG3	PRO	X	491	33.945	15.851	29.944	0.00	0.00
ATOM	7463	CB	PRO	X	491	33.555	13.857	29.228	0.00	0.00
ATOM	7464	HB2	PRO	X	491	34.533	13.384	29.132	0.00	0.00
ATOM	7465	HB3	PRO	X	491	33.214	14.183	28.246	0.00	0.00
ATOM	7466	CA	PRO	X	491	32.523	12.914	29.852	0.00	0.00
ATOM	7467	HA	PRO	X	491	32.053	12.409	29.008	0.00	0.00
ATOM	7468	C	PRO	X	491	33.104	11.910	30.836	0.00	0.00
ATOM	7469	O	PRO	X	491	33.018	12.116	32.015	0.00	0.00
ATOM	7470	N	LYS	X	492	33.803	10.897	30.404	0.00	0.00
ATOM	7471	H	LYS	X	492	33.844	10.697	29.415	0.00	0.00
ATOM	7472	CA	LYS	X	492	34.418	9.940	31.352	0.00	0.00
ATOM	7473	HA	LYS	X	492	33.693	9.859	32.162	0.00	0.00
ATOM	7474	CB	LYS	X	492	34.606	8.509	30.718	0.00	0.00
ATOM	7475	HB2	LYS	X	492	35.149	8.518	29.773	0.00	0.00
ATOM	7476	HB3	LYS	X	492	35.157	7.975	31.492	0.00	0.00
ATOM	7477	CG	LYS	X	492	33.282	7.759	30.484	0.00	0.00
ATOM	7478	HG2	LYS	X	492	32.974	7.228	31.385	0.00	0.00
ATOM	7479	HG3	LYS	X	492	32.507	8.418	30.094	0.00	0.00
ATOM	7480	CD	LYS	X	492	33.539	6.575	29.442	0.00	0.00
ATOM	7481	HD2	LYS	X	492	33.785	7.007	28.472	0.00	0.00
ATOM	7482	HD3	LYS	X	492	34.411	6.033	29.809	0.00	0.00
ATOM	7483	CE	LYS	X	492	32.239	5.708	29.349	0.00	0.00
ATOM	7484	HE2	LYS	X	492	32.093	5.342	30.365	0.00	0.00
ATOM	7485	HE3	LYS	X	492	31.340	6.278	29.113	0.00	0.00
ATOM	7486	NZ	LYS	X	492	32.480	4.521	28.407	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	31.699	3.880	28.402	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	32.501	4.689	27.412	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	33.283	3.977	28.690	0.00	0.00
ATOM	7490	C	LYS	X	492	35.593	10.418	32.163	0.00	0.00
ATOM	7491	O	LYS	X	492	35.936	9.886	33.234	0.00	0.00
ATOM	7492	N	ALA	X	493	36.239	11.527	31.746	0.00	0.00
ATOM	7493	H	ALA	X	493	35.864	12.064	30.977	0.00	0.00
ATOM	7494	CA	ALA	X	493	37.325	12.114	32.506	0.00	0.00
ATOM	7495	HA	ALA	X	493	37.917	11.215	32.676	0.00	0.00
ATOM	7496	CB	ALA	X	493	37.925	13.196	31.558	0.00	0.00
ATOM	7497	HB1	ALA	X	493	38.085	12.729	30.586	0.00	0.00
ATOM	7498	HB2	ALA	X	493	38.913	13.442	31.945	0.00	0.00
ATOM	7499	HB3	ALA	X	493	37.334	14.094	31.380	0.00	0.00
ATOM	7500	C	ALA	X	493	36.851	12.665	33.855	0.00	0.00
ATOM	7501	O	ALA	X	493	35.727	13.103	33.935	0.00	0.00
ATOM	7502	N	PRO	X	494	37.701	12.808	34.902	0.00	0.00
ATOM	7503	CD	PRO	X	494	39.073	12.475	34.862	0.00	0.00
ATOM	7504	HD2	PRO	X	494	39.509	12.999	34.011	0.00	0.00
ATOM	7505	HD3	PRO	X	494	39.006	11.389	34.796	0.00	0.00
ATOM	7506	CG	PRO	X	494	39.611	12.848	36.231	0.00	0.00
ATOM	7507	HG2	PRO	X	494	39.897	13.889	36.073	0.00	0.00
ATOM	7508	HG3	PRO	X	494	40.396	12.176	36.577	0.00	0.00
ATOM	7509	CB	PRO	X	494	38.438	12.943	37.212	0.00	0.00
ATOM	7510	HB2	PRO	X	494	38.671	13.721	37.939	0.00	0.00
ATOM	7511	HB3	PRO	X	494	38.358	11.971	37.698	0.00	0.00
ATOM	7512	CA	PRO	X	494	37.299	13.322	36.230	0.00	0.00
ATOM	7513	HA	PRO	X	494	36.352	12.905	36.571	0.00	0.00
ATOM	7514	C	PRO	X	494	37.156	14.809	36.346	0.00	0.00
ATOM	7515	O	PRO	X	494	37.860	15.588	35.690	0.00	0.00
ATOM	7516	N	GLN	X	495	36.173	15.136	37.203	0.00	0.00
ATOM	7517	H	GLN	X	495	35.701	14.430	37.750	0.00	0.00
ATOM	7518	CA	GLN	X	495	35.677	16.504	37.405	0.00	0.00
ATOM	7519	HA	GLN	X	495	36.292	17.165	36.795	0.00	0.00
ATOM	7520	CB	GLN	X	495	34.215	16.621	36.887	0.00	0.00
ATOM	7521	HB2	GLN	X	495	33.571	16.212	37.666	0.00	0.00
ATOM	7522	HB3	GLN	X	495	33.993	17.687	36.827	0.00	0.00

ATOM	7523	CG	GLN	X	495	33.863	15.957	35.508	0.00	0.00
ATOM	7524	HG2	GLN	X	495	34.169	14.913	35.590	0.00	0.00
ATOM	7525	HG3	GLN	X	495	32.804	16.163	35.353	0.00	0.00
ATOM	7526	CD	GLN	X	495	34.535	16.618	34.355	0.00	0.00
ATOM	7527	OE1	GLN	X	495	34.587	17.847	34.310	0.00	0.00
ATOM	7528	NE2	GLN	X	495	35.186	15.944	33.398	0.00	0.00
ATOM	7529	HE21	GLN	X	495	35.614	16.495	32.668	0.00	0.00
ATOM	7530	HE22	GLN	X	495	35.164	14.934	33.402	0.00	0.00
ATOM	7531	C	GLN	X	495	35.733	17.040	38.892	0.00	0.00
ATOM	7532	O	GLN	X	495	35.975	16.265	39.827	0.00	0.00
ATOM	7533	N	TRP	X	496	35.471	18.346	39.112	0.00	0.00
ATOM	7534	H	TRP	X	496	35.524	18.936	38.294	0.00	0.00
ATOM	7535	CA	TRP	X	496	35.616	19.065	40.405	0.00	0.00
ATOM	7536	HA	TRP	X	496	36.504	18.683	40.910	0.00	0.00
ATOM	7537	CB	TRP	X	496	35.881	20.480	40.015	0.00	0.00
ATOM	7538	HB2	TRP	X	496	36.691	20.443	39.287	0.00	0.00
ATOM	7539	HB3	TRP	X	496	35.030	20.884	39.466	0.00	0.00
ATOM	7540	CG	TRP	X	496	36.309	21.578	40.956	0.00	0.00
ATOM	7541	CD1	TRP	X	496	36.318	21.540	42.309	0.00	0.00
ATOM	7542	HD1	TRP	X	496	36.163	20.690	42.957	0.00	0.00
ATOM	7543	NE1	TRP	X	496	36.955	22.663	42.781	0.00	0.00
ATOM	7544	HE1	TRP	X	496	37.138	22.826	43.761	0.00	0.00
ATOM	7545	CE2	TRP	X	496	37.316	23.484	41.729	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	37.918	24.779	41.591	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	38.211	25.276	42.505	0.00	0.00
ATOM	7548	CH2	TRP	X	496	38.307	25.194	40.315	0.00	0.00
ATOM	7549	HH2	TRP	X	496	39.003	26.019	40.295	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	37.877	24.544	39.121	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	38.184	24.875	38.140	0.00	0.00
ATOM	7552	CE3	TRP	X	496	37.129	23.406	39.266	0.00	0.00
ATOM	7553	HE3	TRP	X	496	36.753	22.854	38.417	0.00	0.00
ATOM	7554	CD2	TRP	X	496	36.896	22.839	40.530	0.00	0.00
ATOM	7555	C	TRP	X	496	34.390	19.022	41.344	0.00	0.00
ATOM	7556	O	TRP	X	496	33.295	19.492	40.941	0.00	0.00
ATOM	7557	N	PRO	X	497	34.489	18.495	42.625	0.00	0.00
ATOM	7558	CD	PRO	X	497	35.668	17.851	43.222	0.00	0.00
ATOM	7559	HD2	PRO	X	497	36.545	18.484	43.358	0.00	0.00
ATOM	7560	HD3	PRO	X	497	36.038	17.003	42.647	0.00	0.00
ATOM	7561	CG	PRO	X	497	35.183	17.328	44.604	0.00	0.00
ATOM	7562	HG2	PRO	X	497	35.546	18.047	45.339	0.00	0.00
ATOM	7563	HG3	PRO	X	497	35.536	16.303	44.726	0.00	0.00
ATOM	7564	CB	PRO	X	497	33.680	17.376	44.521	0.00	0.00
ATOM	7565	HB2	PRO	X	497	33.165	17.537	45.468	0.00	0.00
ATOM	7566	HB3	PRO	X	497	33.255	16.440	44.159	0.00	0.00
ATOM	7567	CA	PRO	X	497	33.413	18.563	43.614	0.00	0.00
ATOM	7568	HA	PRO	X	497	32.443	18.433	43.134	0.00	0.00
ATOM	7569	C	PRO	X	497	33.345	19.856	44.412	0.00	0.00
ATOM	7570	O	PRO	X	497	34.323	20.581	44.580	0.00	0.00
ATOM	7571	N	PRO	X	498	32.124	20.166	44.962	0.00	0.00
ATOM	7572	CD	PRO	X	498	30.824	19.518	44.768	0.00	0.00
ATOM	7573	HD2	PRO	X	498	30.959	18.449	44.933	0.00	0.00
ATOM	7574	HD3	PRO	X	498	30.668	19.656	43.698	0.00	0.00
ATOM	7575	CG	PRO	X	498	29.858	20.192	45.694	0.00	0.00
ATOM	7576	HG2	PRO	X	498	29.914	19.623	46.622	0.00	0.00
ATOM	7577	HG3	PRO	X	498	28.829	20.083	45.351	0.00	0.00
ATOM	7578	CB	PRO	X	498	30.389	21.592	46.011	0.00	0.00
ATOM	7579	HB2	PRO	X	498	30.277	21.926	47.043	0.00	0.00
ATOM	7580	HB3	PRO	X	498	30.086	22.234	45.183	0.00	0.00
ATOM	7581	CA	PRO	X	498	31.915	21.349	45.818	0.00	0.00
ATOM	7582	HA	PRO	X	498	32.418	22.198	45.356	0.00	0.00
ATOM	7583	C	PRO	X	498	32.745	21.178	47.076	0.00	0.00
ATOM	7584	O	PRO	X	498	32.665	20.128	47.714	0.00	0.00
ATOM	7585	N	TYR	X	499	33.517	22.204	47.479	0.00	0.00
ATOM	7586	H	TYR	X	499	33.471	23.055	46.939	0.00	0.00
ATOM	7587	CA	TYR	X	499	34.088	22.358	48.807	0.00	0.00
ATOM	7588	HA	TYR	X	499	34.699	21.468	48.956	0.00	0.00
ATOM	7589	CB	TYR	X	499	34.905	23.705	48.851	0.00	0.00

ATOM	7590	HB2	TYR	X	499	35.559	23.800	47.984	0.00	0.00
ATOM	7591	HB3	TYR	X	499	34.243	24.551	48.664	0.00	0.00
ATOM	7592	CG	TYR	X	499	35.625	23.920	50.127	0.00	0.00
ATOM	7593	CD1	TYR	X	499	35.090	24.417	51.271	0.00	0.00
ATOM	7594	HD1	TYR	X	499	34.011	24.455	51.241	0.00	0.00
ATOM	7595	CE1	TYR	X	499	35.872	24.506	52.445	0.00	0.00
ATOM	7596	HE1	TYR	X	499	35.443	24.902	53.354	0.00	0.00
ATOM	7597	CZ	TYR	X	499	37.259	24.310	52.409	0.00	0.00
ATOM	7598	OH	TYR	X	499	38.089	24.469	53.454	0.00	0.00
ATOM	7599	HH	TYR	X	499	37.669	24.818	54.243	0.00	0.00
ATOM	7600	CE2	TYR	X	499	37.784	23.789	51.189	0.00	0.00
ATOM	7601	HE2	TYR	X	499	38.822	23.497	51.122	0.00	0.00
ATOM	7602	CD2	TYR	X	499	36.986	23.627	50.081	0.00	0.00
ATOM	7603	HD2	TYR	X	499	37.414	23.263	49.158	0.00	0.00
ATOM	7604	C	TYR	X	499	32.983	22.290	49.859	0.00	0.00
ATOM	7605	O	TYR	X	499	32.015	23.031	49.781	0.00	0.00
ATOM	7606	N	THR	X	500	33.152	21.449	50.885	0.00	0.00
ATOM	7607	H	THR	X	500	33.922	20.811	50.738	0.00	0.00
ATOM	7608	CA	THR	X	500	32.393	21.463	52.173	0.00	0.00
ATOM	7609	HA	THR	X	500	31.766	22.351	52.087	0.00	0.00
ATOM	7610	CB	THR	X	500	31.536	20.157	52.194	0.00	0.00
ATOM	7611	HB	THR	X	500	31.038	20.175	53.163	0.00	0.00
ATOM	7612	CG2	THR	X	500	30.484	20.362	51.151	0.00	0.00
ATOM	7613	HG21	THR	X	500	29.870	21.243	51.343	0.00	0.00
ATOM	7614	HG22	THR	X	500	29.719	19.586	51.176	0.00	0.00
ATOM	7615	HG23	THR	X	500	30.938	20.310	50.162	0.00	0.00
ATOM	7616	OG1	THR	X	500	32.268	18.976	52.074	0.00	0.00
ATOM	7617	HG1	THR	X	500	31.730	18.183	52.005	0.00	0.00
ATOM	7618	C	THR	X	500	33.193	21.570	53.411	0.00	0.00
ATOM	7619	O	THR	X	500	34.250	20.964	53.432	0.00	0.00
ATOM	7620	N	ALA	X	501	32.652	22.182	54.451	0.00	0.00
ATOM	7621	H	ALA	X	501	31.716	22.526	54.289	0.00	0.00
ATOM	7622	CA	ALA	X	501	33.361	22.561	55.734	0.00	0.00
ATOM	7623	HA	ALA	X	501	34.250	23.157	55.526	0.00	0.00
ATOM	7624	CB	ALA	X	501	32.389	23.567	56.488	0.00	0.00
ATOM	7625	HB1	ALA	X	501	31.547	23.028	56.922	0.00	0.00
ATOM	7626	HB2	ALA	X	501	31.880	24.215	55.775	0.00	0.00
ATOM	7627	HB3	ALA	X	501	33.021	24.196	57.114	0.00	0.00
ATOM	7628	C	ALA	X	501	33.903	21.346	56.534	0.00	0.00
ATOM	7629	O	ALA	X	501	34.904	21.491	57.227	0.00	0.00
ATOM	7630	N	GLY	X	502	33.255	20.141	56.446	0.00	0.00
ATOM	7631	H	GLY	X	502	32.539	20.121	55.734	0.00	0.00
ATOM	7632	CA	GLY	X	502	33.664	18.854	57.024	0.00	0.00
ATOM	7633	HA2	GLY	X	502	33.930	19.108	58.050	0.00	0.00
ATOM	7634	HA3	GLY	X	502	32.859	18.120	56.980	0.00	0.00
ATOM	7635	C	GLY	X	502	34.927	18.366	56.261	0.00	0.00
ATOM	7636	O	GLY	X	502	36.023	18.508	56.804	0.00	0.00
ATOM	7637	N	ALA	X	503	34.821	17.858	55.008	0.00	0.00
ATOM	7638	H	ALA	X	503	33.902	17.869	54.588	0.00	0.00
ATOM	7639	CA	ALA	X	503	35.911	17.225	54.286	0.00	0.00
ATOM	7640	HA	ALA	X	503	36.366	16.560	55.020	0.00	0.00
ATOM	7641	CB	ALA	X	503	35.279	16.303	53.243	0.00	0.00
ATOM	7642	HB1	ALA	X	503	35.043	16.867	52.341	0.00	0.00
ATOM	7643	HB2	ALA	X	503	34.323	15.941	53.621	0.00	0.00
ATOM	7644	HB3	ALA	X	503	35.961	15.483	53.020	0.00	0.00
ATOM	7645	C	ALA	X	503	36.927	18.177	53.697	0.00	0.00
ATOM	7646	O	ALA	X	503	38.058	17.770	53.584	0.00	0.00
ATOM	7647	N	GLN	X	504	36.475	19.410	53.336	0.00	0.00
ATOM	7648	H	GLN	X	504	35.474	19.540	53.366	0.00	0.00
ATOM	7649	CA	GLN	X	504	37.295	20.512	52.790	0.00	0.00
ATOM	7650	HA	GLN	X	504	36.654	21.347	52.506	0.00	0.00
ATOM	7651	CB	GLN	X	504	38.176	21.020	53.936	0.00	0.00
ATOM	7652	HB2	GLN	X	504	38.937	20.249	54.054	0.00	0.00
ATOM	7653	HB3	GLN	X	504	38.671	21.896	53.516	0.00	0.00
ATOM	7654	CG	GLN	X	504	37.375	21.362	55.266	0.00	0.00
ATOM	7655	HG2	GLN	X	504	36.572	22.058	55.021	0.00	0.00
ATOM	7656	HG3	GLN	X	504	36.844	20.465	55.586	0.00	0.00

ATOM	7657	CD	GLN	X	504	38.344	21.858	56.383	0.00	0.00
ATOM	7658	OE1	GLN	X	504	39.388	22.412	56.082	0.00	0.00
ATOM	7659	NE2	GLN	X	504	37.893	22.040	57.599	0.00	0.00
ATOM	7660	HE21	GLN	X	504	38.618	22.283	58.259	0.00	0.00
ATOM	7661	HE22	GLN	X	504	36.943	21.793	57.835	0.00	0.00
ATOM	7662	C	GLN	X	504	38.094	20.088	51.548	0.00	0.00
ATOM	7663	O	GLN	X	504	39.311	20.160	51.493	0.00	0.00
ATOM	7664	N	GLN	X	505	37.404	19.602	50.537	0.00	0.00
ATOM	7665	H	GLN	X	505	36.417	19.499	50.724	0.00	0.00
ATOM	7666	CA	GLN	X	505	37.921	19.138	49.260	0.00	0.00
ATOM	7667	HA	GLN	X	505	38.892	18.704	49.499	0.00	0.00
ATOM	7668	CB	GLN	X	505	37.061	18.133	48.550	0.00	0.00
ATOM	7669	HB2	GLN	X	505	36.007	18.409	48.536	0.00	0.00
ATOM	7670	HB3	GLN	X	505	37.325	18.113	47.492	0.00	0.00
ATOM	7671	CG	GLN	X	505	37.189	16.770	49.228	0.00	0.00
ATOM	7672	HG2	GLN	X	505	38.237	16.473	49.176	0.00	0.00
ATOM	7673	HG3	GLN	X	505	36.807	16.776	50.248	0.00	0.00
ATOM	7674	CD	GLN	X	505	36.480	15.604	48.579	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.986	14.512	48.430	0.00	0.00
ATOM	7676	NE2	GLN	X	505	35.241	15.725	48.308	0.00	0.00
ATOM	7677	HE21	GLN	X	505	34.636	14.922	48.213	0.00	0.00
ATOM	7678	HE22	GLN	X	505	34.777	16.606	48.480	0.00	0.00
ATOM	7679	C	GLN	X	505	38.295	20.317	48.343	0.00	0.00
ATOM	7680	O	GLN	X	505	37.491	21.121	47.945	0.00	0.00
ATOM	7681	N	TYR	X	506	39.536	20.209	47.839	0.00	0.00
ATOM	7682	H	TYR	X	506	39.958	19.321	48.070	0.00	0.00
ATOM	7683	CA	TYR	X	506	40.278	21.083	46.945	0.00	0.00
ATOM	7684	HA	TYR	X	506	39.536	21.646	46.378	0.00	0.00
ATOM	7685	CB	TYR	X	506	41.158	21.950	47.821	0.00	0.00
ATOM	7686	HB2	TYR	X	506	41.409	22.785	47.168	0.00	0.00
ATOM	7687	HB3	TYR	X	506	40.551	22.328	48.644	0.00	0.00
ATOM	7688	CG	TYR	X	506	42.421	21.340	48.363	0.00	0.00
ATOM	7689	CD1	TYR	X	506	42.335	20.509	49.472	0.00	0.00
ATOM	7690	HD1	TYR	X	506	41.422	20.334	50.022	0.00	0.00
ATOM	7691	CE1	TYR	X	506	43.457	19.905	49.963	0.00	0.00
ATOM	7692	HE1	TYR	X	506	43.455	19.243	50.817	0.00	0.00
ATOM	7693	CZ	TYR	X	506	44.720	20.030	49.271	0.00	0.00
ATOM	7694	OH	TYR	X	506	45.833	19.443	49.819	0.00	0.00
ATOM	7695	HH	TYR	X	506	45.663	18.901	50.593	0.00	0.00
ATOM	7696	CE2	TYR	X	506	44.828	21.012	48.254	0.00	0.00
ATOM	7697	HE2	TYR	X	506	45.796	21.128	47.788	0.00	0.00
ATOM	7698	CD2	TYR	X	506	43.669	21.639	47.755	0.00	0.00
ATOM	7699	HD2	TYR	X	506	43.703	22.359	46.951	0.00	0.00
ATOM	7700	C	TYR	X	506	41.074	20.338	45.817	0.00	0.00
ATOM	7701	O	TYR	X	506	41.889	19.413	46.004	0.00	0.00
ATOM	7702	N	VAL	X	507	40.749	20.721	44.599	0.00	0.00
ATOM	7703	H	VAL	X	507	40.231	21.579	44.470	0.00	0.00
ATOM	7704	CA	VAL	X	507	41.314	19.953	43.468	0.00	0.00
ATOM	7705	HA	VAL	X	507	41.314	18.922	43.822	0.00	0.00
ATOM	7706	CB	VAL	X	507	40.481	20.038	42.174	0.00	0.00
ATOM	7707	HB	VAL	X	507	40.929	19.338	41.468	0.00	0.00
ATOM	7708	CG1	VAL	X	507	39.229	19.312	42.416	0.00	0.00
ATOM	7709	HG11	VAL	X	507	39.573	18.365	42.833	0.00	0.00
ATOM	7710	HG12	VAL	X	507	38.666	19.687	43.271	0.00	0.00
ATOM	7711	HG13	VAL	X	507	38.587	19.296	41.536	0.00	0.00
ATOM	7712	CG2	VAL	X	507	40.210	21.371	41.384	0.00	0.00
ATOM	7713	HG21	VAL	X	507	39.190	21.451	41.008	0.00	0.00
ATOM	7714	HG22	VAL	X	507	40.957	21.317	40.592	0.00	0.00
ATOM	7715	HG23	VAL	X	507	40.398	22.209	42.054	0.00	0.00
ATOM	7716	C	VAL	X	507	42.813	20.344	43.220	0.00	0.00
ATOM	7717	O	VAL	X	507	43.214	21.513	43.405	0.00	0.00
ATOM	7718	N	SER	X	508	43.649	19.369	42.764	0.00	0.00
ATOM	7719	H	SER	X	508	43.260	18.437	42.728	0.00	0.00
ATOM	7720	CA	SER	X	508	44.946	19.705	42.088	0.00	0.00
ATOM	7721	HA	SER	X	508	45.363	20.565	42.610	0.00	0.00
ATOM	7722	CB	SER	X	508	45.959	18.605	42.424	0.00	0.00
ATOM	7723	HB2	SER	X	508	46.380	18.873	43.393	0.00	0.00

ATOM	7724	HB3	SER	X	508	45.433	17.651	42.379	0.00	0.00
ATOM	7725	OG	SER	X	508	47.023	18.568	41.497	0.00	0.00
ATOM	7726	HG	SER	X	508	46.720	18.043	40.753	0.00	0.00
ATOM	7727	C	SER	X	508	44.654	19.956	40.558	0.00	0.00
ATOM	7728	O	SER	X	508	43.849	19.192	39.998	0.00	0.00
ATOM	7729	N	LEU	X	509	45.190	21.031	39.917	0.00	0.00
ATOM	7730	H	LEU	X	509	45.634	21.744	40.478	0.00	0.00
ATOM	7731	CA	LEU	X	509	45.164	21.269	38.484	0.00	0.00
ATOM	7732	HA	LEU	X	509	44.494	20.520	38.061	0.00	0.00
ATOM	7733	CB	LEU	X	509	44.493	22.558	38.165	0.00	0.00
ATOM	7734	HB2	LEU	X	509	44.999	23.173	38.909	0.00	0.00
ATOM	7735	HB3	LEU	X	509	44.682	22.932	37.159	0.00	0.00
ATOM	7736	CG	LEU	X	509	42.952	22.585	38.495	0.00	0.00
ATOM	7737	HG	LEU	X	509	42.792	22.235	39.515	0.00	0.00
ATOM	7738	CD1	LEU	X	509	42.490	24.128	38.398	0.00	0.00
ATOM	7739	HD11	LEU	X	509	43.089	24.788	39.026	0.00	0.00
ATOM	7740	HD12	LEU	X	509	41.454	24.246	38.713	0.00	0.00
ATOM	7741	HD13	LEU	X	509	42.632	24.436	37.362	0.00	0.00
ATOM	7742	CD2	LEU	X	509	42.010	21.772	37.563	0.00	0.00
ATOM	7743	HD21	LEU	X	509	42.054	20.693	37.715	0.00	0.00
ATOM	7744	HD22	LEU	X	509	40.979	22.033	37.800	0.00	0.00
ATOM	7745	HD23	LEU	X	509	42.208	22.104	36.544	0.00	0.00
ATOM	7746	C	LEU	X	509	46.544	21.075	37.923	0.00	0.00
ATOM	7747	O	LEU	X	509	47.463	21.574	38.521	0.00	0.00
ATOM	7748	N	ASP	X	510	46.682	20.566	36.734	0.00	0.00
ATOM	7749	H	ASP	X	510	45.917	20.243	36.158	0.00	0.00
ATOM	7750	CA	ASP	X	510	47.960	20.048	36.182	0.00	0.00
ATOM	7751	HA	ASP	X	510	48.509	20.963	35.960	0.00	0.00
ATOM	7752	CB	ASP	X	510	48.877	19.230	37.185	0.00	0.00
ATOM	7753	HB2	ASP	X	510	49.353	19.910	37.893	0.00	0.00
ATOM	7754	HB3	ASP	X	510	48.292	18.512	37.759	0.00	0.00
ATOM	7755	CG	ASP	X	510	50.082	18.618	36.558	0.00	0.00
ATOM	7756	OD1	ASP	X	510	50.088	17.374	36.437	0.00	0.00
ATOM	7757	OD2	ASP	X	510	50.854	19.417	35.940	0.00	0.00
ATOM	7758	C	ASP	X	510	47.690	19.303	34.793	0.00	0.00
ATOM	7759	O	ASP	X	510	46.497	18.896	34.579	0.00	0.00
ATOM	7760	N	LEU	X	511	48.769	19.104	33.968	0.00	0.00
ATOM	7761	H	LEU	X	511	49.655	19.120	34.454	0.00	0.00
ATOM	7762	CA	LEU	X	511	48.681	18.394	32.740	0.00	0.00
ATOM	7763	HA	LEU	X	511	48.179	18.957	31.954	0.00	0.00
ATOM	7764	CB	LEU	X	511	50.022	18.275	32.089	0.00	0.00
ATOM	7765	HB2	LEU	X	511	50.599	17.545	32.657	0.00	0.00
ATOM	7766	HB3	LEU	X	511	49.912	17.881	31.079	0.00	0.00
ATOM	7767	CG	LEU	X	511	50.821	19.547	31.932	0.00	0.00
ATOM	7768	HG	LEU	X	511	51.072	19.927	32.922	0.00	0.00
ATOM	7769	CD1	LEU	X	511	52.180	19.310	31.271	0.00	0.00
ATOM	7770	HD11	LEU	X	511	52.179	18.622	30.426	0.00	0.00
ATOM	7771	HD12	LEU	X	511	52.862	18.813	31.961	0.00	0.00
ATOM	7772	HD13	LEU	X	511	52.648	20.205	30.863	0.00	0.00
ATOM	7773	CD2	LEU	X	511	50.222	20.641	31.079	0.00	0.00
ATOM	7774	HD21	LEU	X	511	49.934	20.259	30.099	0.00	0.00
ATOM	7775	HD22	LEU	X	511	49.281	20.955	31.531	0.00	0.00
ATOM	7776	HD23	LEU	X	511	50.907	21.489	31.094	0.00	0.00
ATOM	7777	C	LEU	X	511	47.930	17.105	32.904	0.00	0.00
ATOM	7778	O	LEU	X	511	47.152	16.793	31.992	0.00	0.00
ATOM	7779	N	ARG	X	512	48.124	16.332	33.957	0.00	0.00
ATOM	7780	H	ARG	X	512	48.898	16.471	34.590	0.00	0.00
ATOM	7781	CA	ARG	X	512	47.419	15.087	34.207	0.00	0.00
ATOM	7782	HA	ARG	X	512	47.610	14.382	33.397	0.00	0.00
ATOM	7783	CB	ARG	X	512	48.085	14.417	35.376	0.00	0.00
ATOM	7784	HB2	ARG	X	512	47.792	13.377	35.516	0.00	0.00
ATOM	7785	HB3	ARG	X	512	49.139	14.498	35.109	0.00	0.00
ATOM	7786	CG	ARG	X	512	47.817	15.218	36.639	0.00	0.00
ATOM	7787	HG2	ARG	X	512	47.818	16.294	36.465	0.00	0.00
ATOM	7788	HG3	ARG	X	512	46.863	14.982	37.111	0.00	0.00
ATOM	7789	CD	ARG	X	512	48.868	14.820	37.703	0.00	0.00
ATOM	7790	HD2	ARG	X	512	48.977	13.762	37.942	0.00	0.00

ATOM	7791	HD3	ARG	X	512	49.799	15.162	37.252	0.00	0.00
ATOM	7792	NE	ARG	X	512	48.615	15.561	39.017	0.00	0.00
ATOM	7793	HE	ARG	X	512	47.715	15.371	39.434	0.00	0.00
ATOM	7794	CZ	ARG	X	512	49.430	16.389	39.684	0.00	0.00
ATOM	7795	NH1	ARG	X	512	50.495	16.892	39.207	0.00	0.00
ATOM	7796	HH11	ARG	X	512	50.584	17.003	38.207	0.00	0.00
ATOM	7797	HH12	ARG	X	512	51.052	17.435	39.851	0.00	0.00
ATOM	7798	NH2	ARG	X	512	49.047	16.682	40.869	0.00	0.00
ATOM	7799	HH21	ARG	X	512	48.212	16.244	41.229	0.00	0.00
ATOM	7800	HH22	ARG	X	512	49.557	17.351	41.429	0.00	0.00
ATOM	7801	C	ARG	X	512	45.917	15.224	34.498	0.00	0.00
ATOM	7802	O	ARG	X	512	45.496	16.293	34.973	0.00	0.00
ATOM	7803	N	PRO	X	513	45.007	14.247	34.282	0.00	0.00
ATOM	7804	CD	PRO	X	513	45.310	12.921	33.816	0.00	0.00
ATOM	7805	HD2	PRO	X	513	45.700	12.355	34.662	0.00	0.00
ATOM	7806	HD3	PRO	X	513	45.997	12.813	32.977	0.00	0.00
ATOM	7807	CG	PRO	X	513	43.891	12.383	33.463	0.00	0.00
ATOM	7808	HG2	PRO	X	513	43.795	11.300	33.532	0.00	0.00
ATOM	7809	HG3	PRO	X	513	43.581	12.687	32.464	0.00	0.00
ATOM	7810	CB	PRO	X	513	42.944	13.001	34.476	0.00	0.00
ATOM	7811	HB2	PRO	X	513	43.008	12.461	35.421	0.00	0.00
ATOM	7812	HB3	PRO	X	513	41.962	13.146	34.025	0.00	0.00
ATOM	7813	CA	PRO	X	513	43.572	14.366	34.699	0.00	0.00
ATOM	7814	HA	PRO	X	513	43.081	14.973	33.938	0.00	0.00
ATOM	7815	C	PRO	X	513	43.353	14.858	36.197	0.00	0.00
ATOM	7816	O	PRO	X	513	44.204	14.801	37.021	0.00	0.00
ATOM	7817	N	LEU	X	514	42.077	15.194	36.501	0.00	0.00
ATOM	7818	H	LEU	X	514	41.384	15.248	35.769	0.00	0.00
ATOM	7819	CA	LEU	X	514	41.913	15.992	37.747	0.00	0.00
ATOM	7820	HA	LEU	X	514	42.693	16.752	37.684	0.00	0.00
ATOM	7821	CB	LEU	X	514	40.474	16.654	37.734	0.00	0.00
ATOM	7822	HB2	LEU	X	514	40.330	17.322	36.885	0.00	0.00
ATOM	7823	HB3	LEU	X	514	39.721	15.871	37.652	0.00	0.00
ATOM	7824	CG	LEU	X	514	40.256	17.463	38.948	0.00	0.00
ATOM	7825	HG	LEU	X	514	41.204	17.804	39.364	0.00	0.00
ATOM	7826	CD1	LEU	X	514	39.498	18.796	38.628	0.00	0.00
ATOM	7827	HD11	LEU	X	514	39.634	19.545	39.409	0.00	0.00
ATOM	7828	HD12	LEU	X	514	38.422	18.629	38.578	0.00	0.00
ATOM	7829	HD13	LEU	X	514	39.734	19.287	37.683	0.00	0.00
ATOM	7830	CD2	LEU	X	514	39.542	16.632	40.021	0.00	0.00
ATOM	7831	HD21	LEU	X	514	39.704	17.068	41.007	0.00	0.00
ATOM	7832	HD22	LEU	X	514	38.496	16.545	39.726	0.00	0.00
ATOM	7833	HD23	LEU	X	514	39.875	15.594	40.036	0.00	0.00
ATOM	7834	C	LEU	X	514	42.142	15.027	38.978	0.00	0.00
ATOM	7835	O	LEU	X	514	41.860	13.810	38.882	0.00	0.00
ATOM	7836	N	GLU	X	515	42.723	15.583	40.055	0.00	0.00
ATOM	7837	H	GLU	X	515	43.018	16.549	40.050	0.00	0.00
ATOM	7838	CA	GLU	X	515	42.848	14.815	41.318	0.00	0.00
ATOM	7839	HA	GLU	X	515	42.384	13.829	41.299	0.00	0.00
ATOM	7840	CB	GLU	X	515	44.362	14.586	41.606	0.00	0.00
ATOM	7841	HB2	GLU	X	515	44.898	15.527	41.727	0.00	0.00
ATOM	7842	HB3	GLU	X	515	44.370	14.030	42.543	0.00	0.00
ATOM	7843	CG	GLU	X	515	45.146	13.734	40.601	0.00	0.00
ATOM	7844	HG2	GLU	X	515	44.583	12.822	40.403	0.00	0.00
ATOM	7845	HG3	GLU	X	515	45.286	14.277	39.666	0.00	0.00
ATOM	7846	CD	GLU	X	515	46.419	13.215	41.304	0.00	0.00
ATOM	7847	OE1	GLU	X	515	47.451	13.925	41.310	0.00	0.00
ATOM	7848	OE2	GLU	X	515	46.350	12.025	41.652	0.00	0.00
ATOM	7849	C	GLU	X	515	42.217	15.667	42.404	0.00	0.00
ATOM	7850	O	GLU	X	515	42.354	16.899	42.389	0.00	0.00
ATOM	7851	N	VAL	X	516	41.472	15.038	43.246	0.00	0.00
ATOM	7852	H	VAL	X	516	41.283	14.068	43.036	0.00	0.00
ATOM	7853	CA	VAL	X	516	40.897	15.632	44.544	0.00	0.00
ATOM	7854	HA	VAL	X	516	40.745	16.692	44.338	0.00	0.00
ATOM	7855	CB	VAL	X	516	39.448	15.152	44.926	0.00	0.00
ATOM	7856	HB	VAL	X	516	39.566	14.259	45.540	0.00	0.00
ATOM	7857	CG1	VAL	X	516	38.661	16.123	45.853	0.00	0.00

ATOM	7858	HG11	VAL	X	516	37.790	15.569	46.203	0.00	0.00
ATOM	7859	HG12	VAL	X	516	39.188	16.437	46.754	0.00	0.00
ATOM	7860	HG13	VAL	X	516	38.584	17.106	45.389	0.00	0.00
ATOM	7861	CG2	VAL	X	516	38.581	14.907	43.639	0.00	0.00
ATOM	7862	HG21	VAL	X	516	38.578	15.788	42.997	0.00	0.00
ATOM	7863	HG22	VAL	X	516	37.522	14.716	43.813	0.00	0.00
ATOM	7864	HG23	VAL	X	516	38.974	14.119	42.996	0.00	0.00
ATOM	7865	C	VAL	X	516	41.867	15.441	45.744	0.00	0.00
ATOM	7866	O	VAL	X	516	42.247	14.308	46.046	0.00	0.00
ATOM	7867	N	ARG	X	517	42.061	16.467	46.554	0.00	0.00
ATOM	7868	H	ARG	X	517	41.674	17.328	46.197	0.00	0.00
ATOM	7869	CA	ARG	X	517	42.729	16.522	47.878	0.00	0.00
ATOM	7870	HA	ARG	X	517	43.042	15.568	48.303	0.00	0.00
ATOM	7871	CB	ARG	X	517	44.050	17.385	47.765	0.00	0.00
ATOM	7872	HB2	ARG	X	517	43.819	18.392	47.417	0.00	0.00
ATOM	7873	HB3	ARG	X	517	44.495	17.482	48.755	0.00	0.00
ATOM	7874	CG	ARG	X	517	45.123	16.738	46.826	0.00	0.00
ATOM	7875	HG2	ARG	X	517	45.286	15.714	47.161	0.00	0.00
ATOM	7876	HG3	ARG	X	517	44.625	16.697	45.858	0.00	0.00
ATOM	7877	CD	ARG	X	517	46.437	17.579	46.847	0.00	0.00
ATOM	7878	HD2	ARG	X	517	46.032	18.575	46.667	0.00	0.00
ATOM	7879	HD3	ARG	X	517	46.890	17.516	47.836	0.00	0.00
ATOM	7880	NE	ARG	X	517	47.293	17.013	45.762	0.00	0.00
ATOM	7881	HE	ARG	X	517	47.141	16.034	45.565	0.00	0.00
ATOM	7882	CZ	ARG	X	517	48.367	17.649	45.305	0.00	0.00
ATOM	7883	NH1	ARG	X	517	48.603	18.976	45.575	0.00	0.00
ATOM	7884	HH11	ARG	X	517	48.098	19.522	46.258	0.00	0.00
ATOM	7885	HH12	ARG	X	517	49.442	19.379	45.183	0.00	0.00
ATOM	7886	NH2	ARG	X	517	49.185	17.041	44.517	0.00	0.00
ATOM	7887	HH21	ARG	X	517	49.066	16.098	44.173	0.00	0.00
ATOM	7888	HH22	ARG	X	517	49.713	17.657	43.915	0.00	0.00
ATOM	7889	C	ARG	X	517	41.746	17.018	48.908	0.00	0.00
ATOM	7890	O	ARG	X	517	40.683	17.545	48.511	0.00	0.00
ATOM	7891	N	ARG	X	518	42.019	16.872	50.195	0.00	0.00
ATOM	7892	H	ARG	X	518	42.947	16.545	50.421	0.00	0.00
ATOM	7893	CA	ARG	X	518	41.106	17.233	51.279	0.00	0.00
ATOM	7894	HA	ARG	X	518	40.418	17.989	50.901	0.00	0.00
ATOM	7895	CB	ARG	X	518	40.220	15.986	51.603	0.00	0.00
ATOM	7896	HB2	ARG	X	518	39.515	16.223	52.401	0.00	0.00
ATOM	7897	HB3	ARG	X	518	39.787	15.853	50.612	0.00	0.00
ATOM	7898	CG	ARG	X	518	40.971	14.725	52.033	0.00	0.00
ATOM	7899	HG2	ARG	X	518	41.607	14.594	51.158	0.00	0.00
ATOM	7900	HG3	ARG	X	518	41.543	14.898	52.945	0.00	0.00
ATOM	7901	CD	ARG	X	518	40.182	13.493	52.263	0.00	0.00
ATOM	7902	HD2	ARG	X	518	39.562	13.460	53.158	0.00	0.00
ATOM	7903	HD3	ARG	X	518	39.480	13.241	51.467	0.00	0.00
ATOM	7904	NE	ARG	X	518	41.082	12.363	52.486	0.00	0.00
ATOM	7905	HE	ARG	X	518	41.503	12.284	53.401	0.00	0.00
ATOM	7906	CZ	ARG	X	518	41.565	11.564	51.567	0.00	0.00
ATOM	7907	NH1	ARG	X	518	41.388	11.670	50.269	0.00	0.00
ATOM	7908	HH11	ARG	X	518	40.647	12.264	49.925	0.00	0.00
ATOM	7909	HH12	ARG	X	518	41.649	11.014	49.547	0.00	0.00
ATOM	7910	NH2	ARG	X	518	42.348	10.555	51.897	0.00	0.00
ATOM	7911	HH21	ARG	X	518	42.554	10.328	52.860	0.00	0.00
ATOM	7912	HH22	ARG	X	518	42.807	10.083	51.131	0.00	0.00
ATOM	7913	C	ARG	X	518	41.814	17.778	52.522	0.00	0.00
ATOM	7914	O	ARG	X	518	42.962	17.457	52.699	0.00	0.00
ATOM	7915	N	GLY	X	519	41.156	18.765	53.207	0.00	0.00
ATOM	7916	H	GLY	X	519	40.201	19.009	52.990	0.00	0.00
ATOM	7917	CA	GLY	X	519	41.771	19.407	54.435	0.00	0.00
ATOM	7918	HA2	GLY	X	519	40.957	19.741	55.079	0.00	0.00
ATOM	7919	HA3	GLY	X	519	42.523	18.750	54.872	0.00	0.00
ATOM	7920	C	GLY	X	519	42.698	20.621	54.069	0.00	0.00
ATOM	7921	O	GLY	X	519	43.759	20.759	54.679	0.00	0.00
ATOM	7922	N	LEU	X	520	42.233	21.423	53.124	0.00	0.00
ATOM	7923	H	LEU	X	520	41.262	21.369	52.850	0.00	0.00
ATOM	7924	CA	LEU	X	520	42.891	22.621	52.665	0.00	0.00

ATOM	7925	HA	LEU	X	520	43.611	22.262	51.929	0.00	0.00
ATOM	7926	CB	LEU	X	520	41.920	23.404	51.735	0.00	0.00
ATOM	7927	HB2	LEU	X	520	41.571	22.747	50.939	0.00	0.00
ATOM	7928	HB3	LEU	X	520	41.011	23.394	52.337	0.00	0.00
ATOM	7929	CG	LEU	X	520	42.386	24.728	51.132	0.00	0.00
ATOM	7930	HG	LEU	X	520	42.778	25.381	51.912	0.00	0.00
ATOM	7931	CD1	LEU	X	520	43.480	24.633	50.073	0.00	0.00
ATOM	7932	HD11	LEU	X	520	44.442	24.312	50.473	0.00	0.00
ATOM	7933	HD12	LEU	X	520	43.655	25.643	49.704	0.00	0.00
ATOM	7934	HD13	LEU	X	520	43.131	23.977	49.275	0.00	0.00
ATOM	7935	CD2	LEU	X	520	41.187	25.431	50.537	0.00	0.00
ATOM	7936	HD21	LEU	X	520	40.453	25.488	51.342	0.00	0.00
ATOM	7937	HD22	LEU	X	520	41.547	26.441	50.343	0.00	0.00
ATOM	7938	HD23	LEU	X	520	40.923	24.880	49.635	0.00	0.00
ATOM	7939	C	LEU	X	520	43.620	23.438	53.732	0.00	0.00
ATOM	7940	O	LEU	X	520	43.040	24.227	54.437	0.00	0.00
ATOM	7941	N	ARG	X	521	44.945	23.233	53.733	0.00	0.00
ATOM	7942	H	ARG	X	521	45.328	22.775	52.918	0.00	0.00
ATOM	7943	CA	ARG	X	521	45.987	23.790	54.571	0.00	0.00
ATOM	7944	HA	ARG	X	521	46.923	23.242	54.462	0.00	0.00
ATOM	7945	CB	ARG	X	521	46.395	25.190	54.042	0.00	0.00
ATOM	7946	HB2	ARG	X	521	46.395	25.131	52.954	0.00	0.00
ATOM	7947	HB3	ARG	X	521	45.710	25.961	54.396	0.00	0.00
ATOM	7948	CG	ARG	X	521	47.853	25.609	54.296	0.00	0.00
ATOM	7949	HG2	ARG	X	521	47.909	26.687	54.145	0.00	0.00
ATOM	7950	HG3	ARG	X	521	48.111	25.536	55.353	0.00	0.00
ATOM	7951	CD	ARG	X	521	48.857	24.816	53.525	0.00	0.00
ATOM	7952	HD2	ARG	X	521	48.966	23.831	53.979	0.00	0.00
ATOM	7953	HD3	ARG	X	521	48.555	24.687	52.485	0.00	0.00
ATOM	7954	NE	ARG	X	521	50.180	25.370	53.659	0.00	0.00
ATOM	7955	HE	ARG	X	521	50.330	26.207	54.202	0.00	0.00
ATOM	7956	CZ	ARG	X	521	51.302	24.728	53.550	0.00	0.00
ATOM	7957	NH1	ARG	X	521	51.367	23.619	52.874	0.00	0.00
ATOM	7958	HH11	ARG	X	521	50.536	23.231	52.451	0.00	0.00
ATOM	7959	HH12	ARG	X	521	52.208	23.088	52.700	0.00	0.00
ATOM	7960	NH2	ARG	X	521	52.365	25.299	54.112	0.00	0.00
ATOM	7961	HH21	ARG	X	521	52.405	26.237	54.485	0.00	0.00
ATOM	7962	HH22	ARG	X	521	53.232	24.796	54.232	0.00	0.00
ATOM	7963	C	ARG	X	521	45.704	23.738	56.085	0.00	0.00
ATOM	7964	O	ARG	X	521	46.291	24.383	56.909	0.00	0.00
ATOM	7965	N	ALA	X	522	44.749	22.887	56.457	0.00	0.00
ATOM	7966	H	ALA	X	522	44.566	22.243	55.701	0.00	0.00
ATOM	7967	CA	ALA	X	522	44.043	22.878	57.753	0.00	0.00
ATOM	7968	HA	ALA	X	522	43.645	23.848	58.051	0.00	0.00
ATOM	7969	CB	ALA	X	522	42.811	21.944	57.457	0.00	0.00
ATOM	7970	HB1	ALA	X	522	42.226	22.160	56.563	0.00	0.00
ATOM	7971	HB2	ALA	X	522	42.120	21.867	58.297	0.00	0.00
ATOM	7972	HB3	ALA	X	522	43.285	20.974	57.312	0.00	0.00
ATOM	7973	C	ALA	X	522	44.979	22.512	58.951	0.00	0.00
ATOM	7974	O	ALA	X	522	44.735	23.157	59.975	0.00	0.00
ATOM	7975	N	GLN	X	523	45.951	21.619	58.853	0.00	0.00
ATOM	7976	H	GLN	X	523	46.020	21.105	57.987	0.00	0.00
ATOM	7977	CA	GLN	X	523	46.930	21.406	59.881	0.00	0.00
ATOM	7978	HA	GLN	X	523	46.453	21.509	60.856	0.00	0.00
ATOM	7979	CB	GLN	X	523	47.755	20.160	59.565	0.00	0.00
ATOM	7980	HB2	GLN	X	523	48.122	20.210	58.540	0.00	0.00
ATOM	7981	HB3	GLN	X	523	48.620	20.268	60.220	0.00	0.00
ATOM	7982	CG	GLN	X	523	47.044	18.808	59.687	0.00	0.00
ATOM	7983	HG2	GLN	X	523	46.367	18.937	60.532	0.00	0.00
ATOM	7984	HG3	GLN	X	523	46.374	18.532	58.872	0.00	0.00
ATOM	7985	CD	GLN	X	523	48.040	17.688	59.960	0.00	0.00
ATOM	7986	OE1	GLN	X	523	49.253	17.746	59.576	0.00	0.00
ATOM	7987	NE2	GLN	X	523	47.678	16.696	60.729	0.00	0.00
ATOM	7988	HE21	GLN	X	523	48.239	15.874	60.904	0.00	0.00
ATOM	7989	HE22	GLN	X	523	46.714	16.632	61.024	0.00	0.00
ATOM	7990	C	GLN	X	523	47.873	22.596	59.967	0.00	0.00
ATOM	7991	O	GLN	X	523	48.000	23.061	61.100	0.00	0.00

ATOM	7992	N	ALA	X	524	48.482	23.133	58.898	0.00	0.00
ATOM	7993	H	ALA	X	524	48.223	22.806	57.978	0.00	0.00
ATOM	7994	CA	ALA	X	524	49.614	24.056	58.915	0.00	0.00
ATOM	7995	HA	ALA	X	524	50.177	23.859	59.826	0.00	0.00
ATOM	7996	CB	ALA	X	524	50.386	24.125	57.549	0.00	0.00
ATOM	7997	HB1	ALA	X	524	49.561	24.556	56.982	0.00	0.00
ATOM	7998	HB2	ALA	X	524	50.697	23.142	57.195	0.00	0.00
ATOM	7999	HB3	ALA	X	524	51.295	24.718	57.653	0.00	0.00
ATOM	8000	C	ALA	X	524	48.934	25.475	59.238	0.00	0.00
ATOM	8001	O	ALA	X	524	49.562	26.296	59.944	0.00	0.00
ATOM	8002	N	CYX	X	525	47.749	25.857	58.749	0.00	0.00
ATOM	8003	H	CYX	X	525	47.369	25.246	58.041	0.00	0.00
ATOM	8004	CA	CYX	X	525	47.085	27.120	59.081	0.00	0.00
ATOM	8005	HA	CYX	X	525	47.769	27.958	58.948	0.00	0.00
ATOM	8006	CB	CYX	X	525	45.922	27.358	58.113	0.00	0.00
ATOM	8007	HB2	CYX	X	525	45.211	26.533	58.080	0.00	0.00
ATOM	8008	HB3	CYX	X	525	45.572	28.317	58.495	0.00	0.00
ATOM	8009	SG	CYX	X	525	46.437	27.575	56.491	0.00	0.00
ATOM	8010	C	CYX	X	525	46.644	27.187	60.511	0.00	0.00
ATOM	8011	O	CYX	X	525	46.472	28.328	60.967	0.00	0.00
ATOM	8012	N	ALA	X	526	46.538	26.054	61.318	0.00	0.00
ATOM	8013	H	ALA	X	526	46.814	25.128	61.024	0.00	0.00
ATOM	8014	CA	ALA	X	526	46.252	26.161	62.748	0.00	0.00
ATOM	8015	HA	ALA	X	526	45.405	26.844	62.811	0.00	0.00
ATOM	8016	CB	ALA	X	526	45.905	24.780	63.325	0.00	0.00
ATOM	8017	HB1	ALA	X	526	45.069	24.292	62.824	0.00	0.00
ATOM	8018	HB2	ALA	X	526	45.598	24.887	64.366	0.00	0.00
ATOM	8019	HB3	ALA	X	526	46.759	24.111	63.218	0.00	0.00
ATOM	8020	C	ALA	X	526	47.388	26.694	63.714	0.00	0.00
ATOM	8021	O	ALA	X	526	47.229	26.993	64.927	0.00	0.00
ATOM	8022	N	PHE	X	527	48.557	27.002	63.107	0.00	0.00
ATOM	8023	H	PHE	X	527	48.669	26.795	62.125	0.00	0.00
ATOM	8024	CA	PHE	X	527	49.606	27.760	63.780	0.00	0.00
ATOM	8025	HA	PHE	X	527	49.745	27.460	64.819	0.00	0.00
ATOM	8026	CB	PHE	X	527	50.908	27.670	62.996	0.00	0.00
ATOM	8027	HB2	PHE	X	527	51.312	26.664	62.886	0.00	0.00
ATOM	8028	HB3	PHE	X	527	50.729	27.937	61.955	0.00	0.00
ATOM	8029	CG	PHE	X	527	52.005	28.483	63.590	0.00	0.00
ATOM	8030	CD1	PHE	X	527	52.394	28.295	64.933	0.00	0.00
ATOM	8031	HD1	PHE	X	527	52.003	27.545	65.606	0.00	0.00
ATOM	8032	CE1	PHE	X	527	53.379	29.108	65.454	0.00	0.00
ATOM	8033	HE1	PHE	X	527	53.638	28.983	66.496	0.00	0.00
ATOM	8034	CZ	PHE	X	527	54.053	30.096	64.672	0.00	0.00
ATOM	8035	HZ	PHE	X	527	54.813	30.704	65.140	0.00	0.00
ATOM	8036	CE2	PHE	X	527	53.659	30.189	63.305	0.00	0.00
ATOM	8037	HE2	PHE	X	527	54.235	30.805	62.631	0.00	0.00
ATOM	8038	CD2	PHE	X	527	52.670	29.390	62.777	0.00	0.00
ATOM	8039	HD2	PHE	X	527	52.339	29.412	61.750	0.00	0.00
ATOM	8040	C	PHE	X	527	49.170	29.219	63.854	0.00	0.00
ATOM	8041	O	PHE	X	527	49.058	29.762	64.928	0.00	0.00
ATOM	8042	N	TRP	X	528	48.916	29.810	62.669	0.00	0.00
ATOM	8043	H	TRP	X	528	48.940	29.378	61.757	0.00	0.00
ATOM	8044	CA	TRP	X	528	48.906	31.256	62.542	0.00	0.00
ATOM	8045	HA	TRP	X	528	49.876	31.574	62.925	0.00	0.00
ATOM	8046	CB	TRP	X	528	48.945	31.556	61.050	0.00	0.00
ATOM	8047	HB2	TRP	X	528	48.034	31.212	60.559	0.00	0.00
ATOM	8048	HB3	TRP	X	528	49.013	32.615	60.804	0.00	0.00
ATOM	8049	CG	TRP	X	528	50.170	31.146	60.246	0.00	0.00
ATOM	8050	CD1	TRP	X	528	50.304	30.119	59.391	0.00	0.00
ATOM	8051	HD1	TRP	X	528	49.536	29.365	59.312	0.00	0.00
ATOM	8052	NE1	TRP	X	528	51.506	30.100	58.809	0.00	0.00
ATOM	8053	HE1	TRP	X	528	51.701	29.403	58.105	0.00	0.00
ATOM	8054	CE2	TRP	X	528	52.307	31.147	59.200	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	53.630	31.538	58.979	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	54.315	31.015	58.328	0.00	0.00
ATOM	8057	CH2	TRP	X	528	54.208	32.655	59.713	0.00	0.00
ATOM	8058	HH2	TRP	X	528	55.170	33.066	59.445	0.00	0.00

ATOM	8059	CZ3	TRP	X	528	53.413	33.368	60.636	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	53.694	34.206	61.256	0.00	0.00
ATOM	8061	CE3	TRP	X	528	52.113	32.882	60.882	0.00	0.00
ATOM	8062	HE3	TRP	X	528	51.550	33.317	61.695	0.00	0.00
ATOM	8063	CD2	TRP	X	528	51.487	31.813	60.182	0.00	0.00
ATOM	8064	C	TRP	X	528	47.751	31.874	63.357	0.00	0.00
ATOM	8065	O	TRP	X	528	47.966	32.747	64.207	0.00	0.00
ATOM	8066	N	ASN	X	529	46.502	31.446	63.180	0.00	0.00
ATOM	8067	H	ASN	X	529	46.360	30.690	62.526	0.00	0.00
ATOM	8068	CA	ASN	X	529	45.385	32.099	63.838	0.00	0.00
ATOM	8069	HA	ASN	X	529	45.512	33.181	63.785	0.00	0.00
ATOM	8070	CB	ASN	X	529	44.146	31.915	63.063	0.00	0.00
ATOM	8071	HB2	ASN	X	529	43.367	32.557	63.473	0.00	0.00
ATOM	8072	HB3	ASN	X	529	44.319	32.270	62.047	0.00	0.00
ATOM	8073	CG	ASN	X	529	43.628	30.509	63.137	0.00	0.00
ATOM	8074	OD1	ASN	X	529	44.282	29.583	62.701	0.00	0.00
ATOM	8075	ND2	ASN	X	529	42.458	30.183	63.672	0.00	0.00
ATOM	8076	HD21	ASN	X	529	42.334	29.214	63.929	0.00	0.00
ATOM	8077	HD22	ASN	X	529	41.904	30.968	63.984	0.00	0.00
ATOM	8078	C	ASN	X	529	45.263	31.597	65.313	0.00	0.00
ATOM	8079	O	ASN	X	529	44.270	31.907	65.949	0.00	0.00
ATOM	8080	N	ARG	X	530	46.286	30.991	65.868	0.00	0.00
ATOM	8081	H	ARG	X	530	47.033	30.739	65.236	0.00	0.00
ATOM	8082	CA	ARG	X	530	46.335	30.530	67.214	0.00	0.00
ATOM	8083	HA	ARG	X	530	45.496	30.953	67.767	0.00	0.00
ATOM	8084	CB	ARG	X	530	46.231	28.992	67.179	0.00	0.00
ATOM	8085	HB2	ARG	X	530	47.145	28.518	66.819	0.00	0.00
ATOM	8086	HB3	ARG	X	530	46.198	28.686	68.224	0.00	0.00
ATOM	8087	CG	ARG	X	530	44.875	28.561	66.515	0.00	0.00
ATOM	8088	HG2	ARG	X	530	44.056	29.119	66.969	0.00	0.00
ATOM	8089	HG3	ARG	X	530	44.826	28.608	65.428	0.00	0.00
ATOM	8090	CD	ARG	X	530	44.547	27.018	66.765	0.00	0.00
ATOM	8091	HD2	ARG	X	530	45.074	26.459	65.992	0.00	0.00
ATOM	8092	HD3	ARG	X	530	44.810	26.712	67.778	0.00	0.00
ATOM	8093	NE	ARG	X	530	43.093	26.782	66.606	0.00	0.00
ATOM	8094	HE	ARG	X	530	42.491	27.573	66.785	0.00	0.00
ATOM	8095	CZ	ARG	X	530	42.537	25.570	66.558	0.00	0.00
ATOM	8096	NH1	ARG	X	530	43.229	24.485	66.599	0.00	0.00
ATOM	8097	HH11	ARG	X	530	44.231	24.552	66.701	0.00	0.00
ATOM	8098	HH12	ARG	X	530	42.752	23.595	66.573	0.00	0.00
ATOM	8099	NH2	ARG	X	530	41.264	25.315	66.460	0.00	0.00
ATOM	8100	HH21	ARG	X	530	40.535	25.956	66.739	0.00	0.00
ATOM	8101	HH22	ARG	X	530	40.995	24.343	66.408	0.00	0.00
ATOM	8102	C	ARG	X	530	47.554	31.049	67.877	0.00	0.00
ATOM	8103	O	ARG	X	530	47.458	31.818	68.818	0.00	0.00
ATOM	8104	N	PHE	X	531	48.739	30.601	67.489	0.00	0.00
ATOM	8105	H	PHE	X	531	48.763	29.958	66.710	0.00	0.00
ATOM	8106	CA	PHE	X	531	50.017	30.990	68.128	0.00	0.00
ATOM	8107	HA	PHE	X	531	49.901	30.904	69.209	0.00	0.00
ATOM	8108	CB	PHE	X	531	51.138	30.106	67.661	0.00	0.00
ATOM	8109	HB2	PHE	X	531	50.746	29.090	67.609	0.00	0.00
ATOM	8110	HB3	PHE	X	531	51.340	30.377	66.625	0.00	0.00
ATOM	8111	CG	PHE	X	531	52.389	30.114	68.523	0.00	0.00
ATOM	8112	CD1	PHE	X	531	53.304	31.193	68.394	0.00	0.00
ATOM	8113	HD1	PHE	X	531	53.203	31.982	67.665	0.00	0.00
ATOM	8114	CE1	PHE	X	531	54.495	31.218	69.200	0.00	0.00
ATOM	8115	HE1	PHE	X	531	55.200	32.032	69.128	0.00	0.00
ATOM	8116	CZ	PHE	X	531	54.759	30.196	70.074	0.00	0.00
ATOM	8117	HZ	PHE	X	531	55.610	30.207	70.738	0.00	0.00
ATOM	8118	CE2	PHE	X	531	53.846	29.164	70.149	0.00	0.00
ATOM	8119	HE2	PHE	X	531	54.101	28.340	70.800	0.00	0.00
ATOM	8120	CD2	PHE	X	531	52.675	29.083	69.401	0.00	0.00
ATOM	8121	HD2	PHE	X	531	52.034	28.217	69.477	0.00	0.00
ATOM	8122	C	PHE	X	531	50.436	32.444	67.785	0.00	0.00
ATOM	8123	O	PHE	X	531	51.002	33.128	68.629	0.00	0.00
ATOM	8124	N	LEU	X	532	50.144	32.926	66.522	0.00	0.00
ATOM	8125	H	LEU	X	532	49.460	32.405	65.992	0.00	0.00

ATOM	8126	CA	LEU	X	532	50.481	34.202	66.051	0.00	0.00
ATOM	8127	HA	LEU	X	532	51.533	34.299	66.321	0.00	0.00
ATOM	8128	CB	LEU	X	532	50.581	34.230	64.514	0.00	0.00
ATOM	8129	HB2	LEU	X	532	50.855	33.226	64.191	0.00	0.00
ATOM	8130	HB3	LEU	X	532	49.617	34.476	64.070	0.00	0.00
ATOM	8131	CG	LEU	X	532	51.585	35.293	64.049	0.00	0.00
ATOM	8132	HG	LEU	X	532	51.854	34.997	63.035	0.00	0.00
ATOM	8133	CD1	LEU	X	532	50.856	36.645	63.949	0.00	0.00
ATOM	8134	HD11	LEU	X	532	50.496	36.802	64.966	0.00	0.00
ATOM	8135	HD12	LEU	X	532	50.059	36.667	63.206	0.00	0.00
ATOM	8136	HD13	LEU	X	532	51.533	37.417	63.583	0.00	0.00
ATOM	8137	CD2	LEU	X	532	52.917	35.421	64.748	0.00	0.00
ATOM	8138	HD21	LEU	X	532	52.774	35.893	65.720	0.00	0.00
ATOM	8139	HD22	LEU	X	532	53.451	34.471	64.748	0.00	0.00
ATOM	8140	HD23	LEU	X	532	53.450	36.176	64.171	0.00	0.00
ATOM	8141	C	LEU	X	532	49.860	35.390	66.781	0.00	0.00
ATOM	8142	O	LEU	X	532	50.625	36.245	67.214	0.00	0.00
ATOM	8143	N	PRO	X	533	48.484	35.494	66.865	0.00	0.00
ATOM	8144	CD	PRO	X	533	47.437	34.519	66.531	0.00	0.00
ATOM	8145	HD2	PRO	X	533	47.635	33.470	66.752	0.00	0.00
ATOM	8146	HD3	PRO	X	533	47.169	34.552	65.475	0.00	0.00
ATOM	8147	CG	PRO	X	533	46.266	34.926	67.347	0.00	0.00
ATOM	8148	HG2	PRO	X	533	46.331	34.526	68.359	0.00	0.00
ATOM	8149	HG3	PRO	X	533	45.338	34.580	66.891	0.00	0.00
ATOM	8150	CB	PRO	X	533	46.382	36.466	67.413	0.00	0.00
ATOM	8151	HB2	PRO	X	533	45.758	36.942	68.169	0.00	0.00
ATOM	8152	HB3	PRO	X	533	46.138	36.883	66.436	0.00	0.00
ATOM	8153	CA	PRO	X	533	47.874	36.653	67.575	0.00	0.00
ATOM	8154	HA	PRO	X	533	48.101	37.635	67.160	0.00	0.00
ATOM	8155	C	PRO	X	533	48.320	36.595	69.078	0.00	0.00
ATOM	8156	O	PRO	X	533	48.516	37.656	69.680	0.00	0.00
ATOM	8157	N	LYS	X	534	48.524	35.439	69.716	0.00	0.00
ATOM	8158	H	LYS	X	534	48.441	34.562	69.222	0.00	0.00
ATOM	8159	CA	LYS	X	534	48.993	35.329	71.082	0.00	0.00
ATOM	8160	HA	LYS	X	534	48.410	35.990	71.723	0.00	0.00
ATOM	8161	CB	LYS	X	534	48.746	33.909	71.595	0.00	0.00
ATOM	8162	HB2	LYS	X	534	47.684	33.734	71.424	0.00	0.00
ATOM	8163	HB3	LYS	X	534	49.356	33.257	70.971	0.00	0.00
ATOM	8164	CG	LYS	X	534	49.085	33.884	73.073	0.00	0.00
ATOM	8165	HG2	LYS	X	534	50.149	33.864	73.309	0.00	0.00
ATOM	8166	HG3	LYS	X	534	48.740	34.826	73.500	0.00	0.00
ATOM	8167	CD	LYS	X	534	48.361	32.720	73.703	0.00	0.00
ATOM	8168	HD2	LYS	X	534	47.338	32.599	73.347	0.00	0.00
ATOM	8169	HD3	LYS	X	534	48.942	31.826	73.475	0.00	0.00
ATOM	8170	CE	LYS	X	534	48.432	32.953	75.248	0.00	0.00
ATOM	8171	HE2	LYS	X	534	49.464	33.153	75.538	0.00	0.00
ATOM	8172	HE3	LYS	X	534	47.853	33.850	75.469	0.00	0.00
ATOM	8173	NZ	LYS	X	534	47.949	31.689	75.886	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	47.173	31.254	75.408	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	48.736	31.056	75.904	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	47.616	31.876	76.821	0.00	0.00
ATOM	8177	C	LYS	X	534	50.476	35.736	71.223	0.00	0.00
ATOM	8178	O	LYS	X	534	50.841	36.308	72.263	0.00	0.00
ATOM	8179	N	LEU	X	535	51.282	35.490	70.237	0.00	0.00
ATOM	8180	H	LEU	X	535	50.941	34.838	69.545	0.00	0.00
ATOM	8181	CA	LEU	X	535	52.713	35.952	70.238	0.00	0.00
ATOM	8182	HA	LEU	X	535	53.145	35.759	71.220	0.00	0.00
ATOM	8183	CB	LEU	X	535	53.482	35.175	69.200	0.00	0.00
ATOM	8184	HB2	LEU	X	535	53.529	34.130	69.503	0.00	0.00
ATOM	8185	HB3	LEU	X	535	53.043	35.306	68.210	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.960	35.512	68.961	0.00	0.00
ATOM	8187	HG	LEU	X	535	55.173	36.563	68.767	0.00	0.00
ATOM	8188	CD1	LEU	X	535	55.845	35.077	70.196	0.00	0.00
ATOM	8189	HD11	LEU	X	535	55.703	34.013	70.383	0.00	0.00
ATOM	8190	HD12	LEU	X	535	55.352	35.513	71.066	0.00	0.00
ATOM	8191	HD13	LEU	X	535	56.850	35.498	70.230	0.00	0.00
ATOM	8192	CD2	LEU	X	535	55.657	34.892	67.749	0.00	0.00

ATOM	8193	HD21	LEU	X	535	56.675	35.266	67.647	0.00	0.00
ATOM	8194	HD22	LEU	X	535	55.687	33.815	67.917	0.00	0.00
ATOM	8195	HD23	LEU	X	535	55.144	35.226	66.848	0.00	0.00
ATOM	8196	C	LEU	X	535	52.831	37.474	70.070	0.00	0.00
ATOM	8197	O	LEU	X	535	53.681	38.041	70.775	0.00	0.00
ATOM	8198	N	LEU	X	536	52.023	38.049	69.150	0.00	0.00
ATOM	8199	H	LEU	X	536	51.403	37.475	68.597	0.00	0.00
ATOM	8200	CA	LEU	X	536	52.102	39.494	68.835	0.00	0.00
ATOM	8201	HA	LEU	X	536	53.123	39.851	68.697	0.00	0.00
ATOM	8202	CB	LEU	X	536	51.154	39.805	67.726	0.00	0.00
ATOM	8203	HB2	LEU	X	536	50.289	39.147	67.809	0.00	0.00
ATOM	8204	HB3	LEU	X	536	50.810	40.837	67.803	0.00	0.00
ATOM	8205	CG	LEU	X	536	51.826	39.600	66.315	0.00	0.00
ATOM	8206	HG	LEU	X	536	52.161	38.563	66.352	0.00	0.00
ATOM	8207	CD1	LEU	X	536	50.763	39.967	65.318	0.00	0.00
ATOM	8208	HD11	LEU	X	536	50.172	40.844	65.581	0.00	0.00
ATOM	8209	HD12	LEU	X	536	50.025	39.191	65.522	0.00	0.00
ATOM	8210	HD13	LEU	X	536	51.030	39.920	64.263	0.00	0.00
ATOM	8211	CD2	LEU	X	536	53.077	40.469	66.118	0.00	0.00
ATOM	8212	HD21	LEU	X	536	52.742	41.502	66.212	0.00	0.00
ATOM	8213	HD22	LEU	X	536	53.839	40.126	66.817	0.00	0.00
ATOM	8214	HD23	LEU	X	536	53.461	40.177	65.140	0.00	0.00
ATOM	8215	C	LEU	X	536	51.646	40.274	70.088	0.00	0.00
ATOM	8216	O	LEU	X	536	52.257	41.283	70.389	0.00	0.00
ATOM	8217	N	SER	X	537	50.721	39.845	70.923	0.00	0.00
ATOM	8218	H	SER	X	537	50.160	39.059	70.625	0.00	0.00
ATOM	8219	CA	SER	X	537	50.325	40.479	72.205	0.00	0.00
ATOM	8220	HA	SER	X	537	50.338	41.547	71.988	0.00	0.00
ATOM	8221	CB	SER	X	537	48.912	40.022	72.601	0.00	0.00
ATOM	8222	HB2	SER	X	537	48.539	40.555	73.476	0.00	0.00
ATOM	8223	HB3	SER	X	537	48.201	40.261	71.810	0.00	0.00
ATOM	8224	OG	SER	X	537	49.018	38.686	72.815	0.00	0.00
ATOM	8225	HG	SER	X	537	48.197	38.388	73.213	0.00	0.00
ATOM	8226	C	SER	X	537	51.320	40.178	73.355	0.00	0.00
ATOM	8227	O	SER	X	537	51.542	41.148	74.142	0.00	0.00
ATOM	8228	N	ALA	X	538	52.058	39.059	73.331	0.00	0.00
ATOM	8229	H	ALA	X	538	51.697	38.365	72.693	0.00	0.00
ATOM	8230	CA	ALA	X	538	53.064	38.651	74.292	0.00	0.00
ATOM	8231	HA	ALA	X	538	52.561	38.832	75.242	0.00	0.00
ATOM	8232	CB	ALA	X	538	53.336	37.136	74.178	0.00	0.00
ATOM	8233	HB1	ALA	X	538	54.069	36.740	74.882	0.00	0.00
ATOM	8234	HB2	ALA	X	538	53.846	36.843	73.261	0.00	0.00
ATOM	8235	HB3	ALA	X	538	52.444	36.535	74.350	0.00	0.00
ATOM	8236	C	ALA	X	538	54.384	39.410	74.052	0.00	0.00
ATOM	8237	O	ALA	X	538	55.050	39.588	75.096	0.00	0.00
ATOM	8238	N	THR	X	539	54.740	39.832	72.825	0.00	0.00
ATOM	8239	H	THR	X	539	54.066	39.680	72.089	0.00	0.00
ATOM	8240	CA	THR	X	539	56.098	40.361	72.526	0.00	0.00
ATOM	8241	HA	THR	X	539	56.810	39.912	73.218	0.00	0.00
ATOM	8242	CB	THR	X	539	56.484	39.995	71.126	0.00	0.00
ATOM	8243	HB	THR	X	539	55.809	40.431	70.390	0.00	0.00
ATOM	8244	CG2	THR	X	539	57.924	40.495	70.741	0.00	0.00
ATOM	8245	HG21	THR	X	539	58.045	40.368	69.665	0.00	0.00
ATOM	8246	HG22	THR	X	539	58.702	39.938	71.263	0.00	0.00
ATOM	8247	HG23	THR	X	539	58.139	41.524	71.031	0.00	0.00
ATOM	8248	OG1	THR	X	539	56.499	38.615	70.866	0.00	0.00
ATOM	8249	HG1	THR	X	539	55.561	38.415	70.811	0.00	0.00
ATOM	8250	C	THR	X	539	56.153	41.893	72.601	0.00	0.00
ATOM	8251	O	THR	X	539	55.119	42.520	72.270	0.00	0.00
ATOM	8252	OXT	THR	X	539	57.181	42.393	73.174	0.00	0.00

END

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1B41 Production MD Frame 2000
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CRYST1	82.120	82.120	82.120	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	29.248	47.269	5.409	0.00	0.00
ATOM	2	H1	ASP	X	1	28.245	47.243	5.291	0.00	0.00
ATOM	3	H2	ASP	X	1	29.322	46.464	6.014	0.00	0.00
ATOM	4	H3	ASP	X	1	29.760	47.141	4.548	0.00	0.00
ATOM	5	CA	ASP	X	1	29.695	48.493	6.194	0.00	0.00
ATOM	6	HA	ASP	X	1	30.756	48.473	6.445	0.00	0.00
ATOM	7	CB	ASP	X	1	29.502	49.843	5.431	0.00	0.00
ATOM	8	HB2	ASP	X	1	30.090	49.865	4.514	0.00	0.00
ATOM	9	HB3	ASP	X	1	28.424	49.950	5.311	0.00	0.00
ATOM	10	CG	ASP	X	1	29.903	51.119	6.227	0.00	0.00
ATOM	11	OD1	ASP	X	1	29.026	51.886	6.681	0.00	0.00
ATOM	12	OD2	ASP	X	1	31.127	51.154	6.505	0.00	0.00
ATOM	13	C	ASP	X	1	29.010	48.571	7.597	0.00	0.00
ATOM	14	O	ASP	X	1	29.770	48.711	8.567	0.00	0.00
ATOM	15	N	ALA	X	2	27.693	48.404	7.606	0.00	0.00
ATOM	16	H	ALA	X	2	27.187	48.318	6.737	0.00	0.00
ATOM	17	CA	ALA	X	2	27.030	48.456	8.906	0.00	0.00
ATOM	18	HA	ALA	X	2	27.285	49.329	9.507	0.00	0.00
ATOM	19	CB	ALA	X	2	25.509	48.436	8.663	0.00	0.00
ATOM	20	HB1	ALA	X	2	25.282	47.578	8.031	0.00	0.00
ATOM	21	HB2	ALA	X	2	25.104	49.275	8.097	0.00	0.00
ATOM	22	HB3	ALA	X	2	24.892	48.454	9.562	0.00	0.00
ATOM	23	C	ALA	X	2	27.290	47.336	9.856	0.00	0.00
ATOM	24	O	ALA	X	2	27.021	47.430	11.049	0.00	0.00
ATOM	25	N	GLU	X	3	27.870	46.179	9.479	0.00	0.00
ATOM	26	H	GLU	X	3	27.881	46.060	8.476	0.00	0.00
ATOM	27	CA	GLU	X	3	28.172	45.054	10.362	0.00	0.00
ATOM	28	HA	GLU	X	3	27.214	44.635	10.669	0.00	0.00
ATOM	29	CB	GLU	X	3	28.901	44.009	9.581	0.00	0.00
ATOM	30	HB2	GLU	X	3	29.816	44.366	9.107	0.00	0.00
ATOM	31	HB3	GLU	X	3	29.210	43.215	10.260	0.00	0.00
ATOM	32	CG	GLU	X	3	28.140	43.314	8.461	0.00	0.00
ATOM	33	HG2	GLU	X	3	28.664	42.455	8.042	0.00	0.00
ATOM	34	HG3	GLU	X	3	27.210	42.963	8.909	0.00	0.00
ATOM	35	CD	GLU	X	3	27.790	44.158	7.286	0.00	0.00
ATOM	36	OE1	GLU	X	3	26.786	44.001	6.614	0.00	0.00
ATOM	37	OE2	GLU	X	3	28.571	45.104	7.027	0.00	0.00
ATOM	38	C	GLU	X	3	29.095	45.458	11.556	0.00	0.00
ATOM	39	O	GLU	X	3	29.132	44.725	12.544	0.00	0.00
ATOM	40	N	LEU	X	4	29.806	46.622	11.379	0.00	0.00
ATOM	41	H	LEU	X	4	29.663	47.159	10.535	0.00	0.00
ATOM	42	CA	LEU	X	4	30.796	47.224	12.220	0.00	0.00
ATOM	43	HA	LEU	X	4	31.179	46.441	12.875	0.00	0.00
ATOM	44	CB	LEU	X	4	31.918	47.731	11.320	0.00	0.00
ATOM	45	HB2	LEU	X	4	31.453	48.465	10.663	0.00	0.00
ATOM	46	HB3	LEU	X	4	32.577	48.299	11.976	0.00	0.00
ATOM	47	CG	LEU	X	4	32.788	46.636	10.757	0.00	0.00
ATOM	48	HG	LEU	X	4	32.193	46.073	10.038	0.00	0.00
ATOM	49	CD1	LEU	X	4	33.891	47.414	9.962	0.00	0.00
ATOM	50	HD11	LEU	X	4	33.425	48.041	9.202	0.00	0.00
ATOM	51	HD12	LEU	X	4	34.455	46.729	9.329	0.00	0.00
ATOM	52	HD13	LEU	X	4	34.521	47.962	10.662	0.00	0.00
ATOM	53	CD2	LEU	X	4	33.507	45.740	11.678	0.00	0.00
ATOM	54	HD21	LEU	X	4	32.820	45.115	12.249	0.00	0.00
ATOM	55	HD22	LEU	X	4	34.255	45.167	11.130	0.00	0.00
ATOM	56	HD23	LEU	X	4	33.923	46.297	12.518	0.00	0.00
ATOM	57	C	LEU	X	4	30.237	48.311	13.187	0.00	0.00
ATOM	58	O	LEU	X	4	30.785	48.607	14.262	0.00	0.00
ATOM	59	N	LEU	X	5	29.087	48.870	12.779	0.00	0.00
ATOM	60	H	LEU	X	5	28.615	48.389	12.026	0.00	0.00
ATOM	61	CA	LEU	X	5	28.244	49.769	13.631	0.00	0.00
ATOM	62	HA	LEU	X	5	28.854	50.483	14.185	0.00	0.00
ATOM	63	CB	LEU	X	5	27.237	50.511	12.700	0.00	0.00
ATOM	64	HB2	LEU	X	5	27.848	51.048	11.974	0.00	0.00
ATOM	65	HB3	LEU	X	5	26.630	49.745	12.219	0.00	0.00

ATOM	66	CG	LEU	X	5	26.223	51.442	13.538	0.00	0.00
ATOM	67	HG	LEU	X	5	26.027	51.118	14.560	0.00	0.00
ATOM	68	CD1	LEU	X	5	26.806	52.850	13.544	0.00	0.00
ATOM	69	HD11	LEU	X	5	27.628	52.786	14.257	0.00	0.00
ATOM	70	HD12	LEU	X	5	26.107	53.558	13.989	0.00	0.00
ATOM	71	HD13	LEU	X	5	27.030	53.293	12.574	0.00	0.00
ATOM	72	CD2	LEU	X	5	24.842	51.342	12.805	0.00	0.00
ATOM	73	HD21	LEU	X	5	24.546	52.142	12.127	0.00	0.00
ATOM	74	HD22	LEU	X	5	24.624	50.383	12.336	0.00	0.00
ATOM	75	HD23	LEU	X	5	24.062	51.302	13.565	0.00	0.00
ATOM	76	C	LEU	X	5	27.510	48.942	14.659	0.00	0.00
ATOM	77	O	LEU	X	5	27.041	47.833	14.299	0.00	0.00
ATOM	78	N	VAL	X	6	27.429	49.339	15.949	0.00	0.00
ATOM	79	H	VAL	X	6	27.981	50.174	16.083	0.00	0.00
ATOM	80	CA	VAL	X	6	26.686	48.684	17.076	0.00	0.00
ATOM	81	HA	VAL	X	6	25.915	48.033	16.664	0.00	0.00
ATOM	82	CB	VAL	X	6	27.610	47.829	17.934	0.00	0.00
ATOM	83	HB	VAL	X	6	28.103	47.079	17.315	0.00	0.00
ATOM	84	CG1	VAL	X	6	28.612	48.608	18.801	0.00	0.00
ATOM	85	HG11	VAL	X	6	28.135	49.206	19.577	0.00	0.00
ATOM	86	HG12	VAL	X	6	29.306	47.917	19.282	0.00	0.00
ATOM	87	HG13	VAL	X	6	29.262	49.160	18.123	0.00	0.00
ATOM	88	CG2	VAL	X	6	26.685	46.994	18.951	0.00	0.00
ATOM	89	HG21	VAL	X	6	25.897	46.433	18.449	0.00	0.00
ATOM	90	HG22	VAL	X	6	26.228	47.745	19.596	0.00	0.00
ATOM	91	HG23	VAL	X	6	27.273	46.256	19.497	0.00	0.00
ATOM	92	C	VAL	X	6	26.045	49.855	17.836	0.00	0.00
ATOM	93	O	VAL	X	6	26.649	50.930	17.976	0.00	0.00
ATOM	94	N	THR	X	7	24.853	49.653	18.421	0.00	0.00
ATOM	95	H	THR	X	7	24.440	48.742	18.284	0.00	0.00
ATOM	96	CA	THR	X	7	24.066	50.674	19.173	0.00	0.00
ATOM	97	HA	THR	X	7	24.618	51.608	19.064	0.00	0.00
ATOM	98	CB	THR	X	7	22.581	50.944	18.710	0.00	0.00
ATOM	99	HB	THR	X	7	22.031	50.004	18.738	0.00	0.00
ATOM	100	CG2	THR	X	7	21.812	51.956	19.500	0.00	0.00
ATOM	101	HG21	THR	X	7	21.679	51.459	20.461	0.00	0.00
ATOM	102	HG22	THR	X	7	20.785	52.089	19.158	0.00	0.00
ATOM	103	HG23	THR	X	7	22.327	52.917	19.505	0.00	0.00
ATOM	104	OG1	THR	X	7	22.772	51.503	17.440	0.00	0.00
ATOM	105	HG1	THR	X	7	21.913	51.624	17.029	0.00	0.00
ATOM	106	C	THR	X	7	24.130	50.303	20.679	0.00	0.00
ATOM	107	O	THR	X	7	24.080	49.126	20.944	0.00	0.00
ATOM	108	N	VAL	X	8	24.227	51.299	21.605	0.00	0.00
ATOM	109	H	VAL	X	8	24.115	52.241	21.257	0.00	0.00
ATOM	110	CA	VAL	X	8	24.182	51.136	23.046	0.00	0.00
ATOM	111	HA	VAL	X	8	23.805	50.141	23.282	0.00	0.00
ATOM	112	CB	VAL	X	8	25.627	51.249	23.645	0.00	0.00
ATOM	113	HB	VAL	X	8	25.567	51.280	24.733	0.00	0.00
ATOM	114	CG1	VAL	X	8	26.446	50.006	23.205	0.00	0.00
ATOM	115	HG11	VAL	X	8	27.492	49.969	23.510	0.00	0.00
ATOM	116	HG12	VAL	X	8	26.003	49.066	23.531	0.00	0.00
ATOM	117	HG13	VAL	X	8	26.399	49.927	22.119	0.00	0.00
ATOM	118	CG2	VAL	X	8	26.527	52.399	23.276	0.00	0.00
ATOM	119	HG21	VAL	X	8	26.400	52.689	22.233	0.00	0.00
ATOM	120	HG22	VAL	X	8	27.554	52.198	23.582	0.00	0.00
ATOM	121	HG23	VAL	X	8	26.218	53.265	23.862	0.00	0.00
ATOM	122	C	VAL	X	8	23.234	52.128	23.670	0.00	0.00
ATOM	123	O	VAL	X	8	22.839	53.083	23.030	0.00	0.00
ATOM	124	N	ARG	X	9	22.992	52.022	24.932	0.00	0.00
ATOM	125	H	ARG	X	9	23.516	51.391	25.521	0.00	0.00
ATOM	126	CA	ARG	X	9	21.945	52.857	25.607	0.00	0.00
ATOM	127	HA	ARG	X	9	21.041	52.828	25.000	0.00	0.00
ATOM	128	CB	ARG	X	9	21.606	52.393	27.045	0.00	0.00
ATOM	129	HB2	ARG	X	9	21.626	51.303	27.024	0.00	0.00
ATOM	130	HB3	ARG	X	9	22.247	52.781	27.836	0.00	0.00
ATOM	131	CG	ARG	X	9	20.226	52.756	27.497	0.00	0.00
ATOM	132	HG2	ARG	X	9	20.041	53.756	27.889	0.00	0.00

ATOM	133	HG3	ARG	X	9	19.594	52.633	26.618	0.00	0.00
ATOM	134	CD	ARG	X	9	19.823	51.883	28.674	0.00	0.00
ATOM	135	HD2	ARG	X	9	20.216	50.868	28.624	0.00	0.00
ATOM	136	HD3	ARG	X	9	20.233	52.303	29.593	0.00	0.00
ATOM	137	NE	ARG	X	9	18.316	51.887	28.825	0.00	0.00
ATOM	138	HE	ARG	X	9	17.715	52.190	28.072	0.00	0.00
ATOM	139	CZ	ARG	X	9	17.688	51.812	30.032	0.00	0.00
ATOM	140	NH1	ARG	X	9	18.337	51.397	31.139	0.00	0.00
ATOM	141	HH11	ARG	X	9	19.310	51.135	31.205	0.00	0.00
ATOM	142	HH12	ARG	X	9	17.921	51.398	32.059	0.00	0.00
ATOM	143	NH2	ARG	X	9	16.459	52.240	30.127	0.00	0.00
ATOM	144	HH21	ARG	X	9	15.890	52.545	29.350	0.00	0.00
ATOM	145	HH22	ARG	X	9	15.931	52.174	30.986	0.00	0.00
ATOM	146	C	ARG	X	9	22.261	54.393	25.619	0.00	0.00
ATOM	147	O	ARG	X	9	21.260	55.139	25.564	0.00	0.00
ATOM	148	N	GLY	X	10	23.493	54.817	25.447	0.00	0.00
ATOM	149	H	GLY	X	10	24.249	54.165	25.599	0.00	0.00
ATOM	150	CA	GLY	X	10	23.853	56.274	25.260	0.00	0.00
ATOM	151	HA2	GLY	X	10	23.122	56.937	25.723	0.00	0.00
ATOM	152	HA3	GLY	X	10	24.823	56.425	25.733	0.00	0.00
ATOM	153	C	GLY	X	10	24.039	56.786	23.841	0.00	0.00
ATOM	154	O	GLY	X	10	24.361	57.910	23.635	0.00	0.00
ATOM	155	N	GLY	X	11	23.928	55.916	22.794	0.00	0.00
ATOM	156	H	GLY	X	11	23.622	55.016	23.135	0.00	0.00
ATOM	157	CA	GLY	X	11	24.149	56.218	21.330	0.00	0.00
ATOM	158	HA2	GLY	X	11	23.194	56.420	20.845	0.00	0.00
ATOM	159	HA3	GLY	X	11	24.735	57.136	21.293	0.00	0.00
ATOM	160	C	GLY	X	11	24.902	55.094	20.476	0.00	0.00
ATOM	161	O	GLY	X	11	24.784	53.858	20.723	0.00	0.00
ATOM	162	N	ARG	X	12	25.625	55.540	19.392	0.00	0.00
ATOM	163	H	ARG	X	12	25.651	56.514	19.125	0.00	0.00
ATOM	164	CA	ARG	X	12	26.231	54.662	18.420	0.00	0.00
ATOM	165	HA	ARG	X	12	25.894	53.629	18.505	0.00	0.00
ATOM	166	CB	ARG	X	12	25.839	55.183	17.060	0.00	0.00
ATOM	167	HB2	ARG	X	12	25.737	56.268	17.092	0.00	0.00
ATOM	168	HB3	ARG	X	12	26.527	54.898	16.264	0.00	0.00
ATOM	169	CG	ARG	X	12	24.488	54.541	16.626	0.00	0.00
ATOM	170	HG2	ARG	X	12	24.462	53.454	16.561	0.00	0.00
ATOM	171	HG3	ARG	X	12	23.798	54.740	17.446	0.00	0.00
ATOM	172	CD	ARG	X	12	24.005	55.150	15.286	0.00	0.00
ATOM	173	HD2	ARG	X	12	24.076	56.234	15.376	0.00	0.00
ATOM	174	HD3	ARG	X	12	24.615	54.796	14.454	0.00	0.00
ATOM	175	NE	ARG	X	12	22.539	54.853	15.066	0.00	0.00
ATOM	176	HE	ARG	X	12	22.307	53.872	15.133	0.00	0.00
ATOM	177	CZ	ARG	X	12	21.530	55.738	15.007	0.00	0.00
ATOM	178	NH1	ARG	X	12	21.893	57.025	14.987	0.00	0.00
ATOM	179	HH11	ARG	X	12	22.848	57.352	14.972	0.00	0.00
ATOM	180	HH12	ARG	X	12	21.146	57.672	14.775	0.00	0.00
ATOM	181	NH2	ARG	X	12	20.285	55.454	15.073	0.00	0.00
ATOM	182	HH21	ARG	X	12	20.163	54.458	15.188	0.00	0.00
ATOM	183	HH22	ARG	X	12	19.510	56.077	15.250	0.00	0.00
ATOM	184	C	ARG	X	12	27.770	54.572	18.550	0.00	0.00
ATOM	185	O	ARG	X	12	28.498	55.573	18.632	0.00	0.00
ATOM	186	N	LEU	X	13	28.306	53.350	18.457	0.00	0.00
ATOM	187	H	LEU	X	13	27.619	52.610	18.427	0.00	0.00
ATOM	188	CA	LEU	X	13	29.742	53.111	18.310	0.00	0.00
ATOM	189	HA	LEU	X	13	30.395	53.982	18.349	0.00	0.00
ATOM	190	CB	LEU	X	13	30.203	52.262	19.510	0.00	0.00
ATOM	191	HB2	LEU	X	13	29.986	51.255	19.152	0.00	0.00
ATOM	192	HB3	LEU	X	13	31.292	52.225	19.537	0.00	0.00
ATOM	193	CG	LEU	X	13	29.768	52.451	21.019	0.00	0.00
ATOM	194	HG	LEU	X	13	28.678	52.497	21.015	0.00	0.00
ATOM	195	CD1	LEU	X	13	30.200	51.255	21.848	0.00	0.00
ATOM	196	HD11	LEU	X	13	31.289	51.202	21.858	0.00	0.00
ATOM	197	HD12	LEU	X	13	29.790	50.414	21.289	0.00	0.00
ATOM	198	HD13	LEU	X	13	29.838	51.240	22.876	0.00	0.00
ATOM	199	CD2	LEU	X	13	30.294	53.788	21.636	0.00	0.00

ATOM	200	HD21	LEU	X	13	30.023	54.663	21.046	0.00	0.00
ATOM	201	HD22	LEU	X	13	30.056	53.894	22.694	0.00	0.00
ATOM	202	HD23	LEU	X	13	31.383	53.767	21.695	0.00	0.00
ATOM	203	C	LEU	X	13	30.016	52.334	17.032	0.00	0.00
ATOM	204	O	LEU	X	13	29.101	51.711	16.452	0.00	0.00
ATOM	205	N	ARG	X	14	31.290	52.329	16.565	0.00	0.00
ATOM	206	H	ARG	X	14	31.942	52.830	17.151	0.00	0.00
ATOM	207	CA	ARG	X	14	31.794	51.532	15.488	0.00	0.00
ATOM	208	HA	ARG	X	14	31.048	50.763	15.288	0.00	0.00
ATOM	209	CB	ARG	X	14	32.108	52.350	14.197	0.00	0.00
ATOM	210	HB2	ARG	X	14	31.306	53.038	13.928	0.00	0.00
ATOM	211	HB3	ARG	X	14	32.976	52.975	14.406	0.00	0.00
ATOM	212	CG	ARG	X	14	32.580	51.510	13.001	0.00	0.00
ATOM	213	HG2	ARG	X	14	33.454	50.981	13.379	0.00	0.00
ATOM	214	HG3	ARG	X	14	31.741	50.877	12.712	0.00	0.00
ATOM	215	CD	ARG	X	14	33.028	52.354	11.759	0.00	0.00
ATOM	216	HD2	ARG	X	14	33.958	52.901	11.914	0.00	0.00
ATOM	217	HD3	ARG	X	14	33.331	51.598	11.034	0.00	0.00
ATOM	218	NE	ARG	X	14	31.963	53.221	11.182	0.00	0.00
ATOM	219	HE	ARG	X	14	31.516	52.833	10.364	0.00	0.00
ATOM	220	CZ	ARG	X	14	31.812	54.516	11.417	0.00	0.00
ATOM	221	NH1	ARG	X	14	32.443	55.081	12.357	0.00	0.00
ATOM	222	HH11	ARG	X	14	33.303	54.702	12.727	0.00	0.00
ATOM	223	HH12	ARG	X	14	32.370	56.079	12.493	0.00	0.00
ATOM	224	NH2	ARG	X	14	30.841	55.218	10.762	0.00	0.00
ATOM	225	HH21	ARG	X	14	30.415	54.773	9.961	0.00	0.00
ATOM	226	HH22	ARG	X	14	30.635	56.173	11.018	0.00	0.00
ATOM	227	C	ARG	X	14	33.108	50.833	15.955	0.00	0.00
ATOM	228	O	ARG	X	14	34.023	51.468	16.423	0.00	0.00
ATOM	229	N	GLY	X	15	33.103	49.504	15.730	0.00	0.00
ATOM	230	H	GLY	X	15	32.217	49.208	15.346	0.00	0.00
ATOM	231	CA	GLY	X	15	34.135	48.418	15.961	0.00	0.00
ATOM	232	HA2	GLY	X	15	34.836	48.674	16.755	0.00	0.00
ATOM	233	HA3	GLY	X	15	33.552	47.558	16.288	0.00	0.00
ATOM	234	C	GLY	X	15	34.941	48.037	14.806	0.00	0.00
ATOM	235	O	GLY	X	15	34.973	48.706	13.787	0.00	0.00
ATOM	236	N	ILE	X	16	35.662	46.907	14.893	0.00	0.00
ATOM	237	H	ILE	X	16	35.749	46.550	15.834	0.00	0.00
ATOM	238	CA	ILE	X	16	36.484	46.303	13.843	0.00	0.00
ATOM	239	HA	ILE	X	16	36.173	46.659	12.861	0.00	0.00
ATOM	240	CB	ILE	X	16	37.925	46.684	14.013	0.00	0.00
ATOM	241	HB	ILE	X	16	38.480	45.924	13.463	0.00	0.00
ATOM	242	CG2	ILE	X	16	38.256	47.968	13.207	0.00	0.00
ATOM	243	HG21	ILE	X	16	39.320	48.198	13.144	0.00	0.00
ATOM	244	HG22	ILE	X	16	37.678	48.806	13.597	0.00	0.00
ATOM	245	HG23	ILE	X	16	37.974	47.781	12.171	0.00	0.00
ATOM	246	CG1	ILE	X	16	38.419	46.688	15.447	0.00	0.00
ATOM	247	HG12	ILE	X	16	37.932	47.546	15.912	0.00	0.00
ATOM	248	HG13	ILE	X	16	38.071	45.738	15.852	0.00	0.00
ATOM	249	CD1	ILE	X	16	40.016	46.936	15.642	0.00	0.00
ATOM	250	HD11	ILE	X	16	40.549	46.241	14.993	0.00	0.00
ATOM	251	HD12	ILE	X	16	40.288	46.733	16.678	0.00	0.00
ATOM	252	HD13	ILE	X	16	40.271	47.967	15.400	0.00	0.00
ATOM	253	C	ILE	X	16	36.146	44.791	13.791	0.00	0.00
ATOM	254	O	ILE	X	16	35.860	44.129	14.802	0.00	0.00
ATOM	255	N	ARG	X	17	36.250	44.207	12.633	0.00	0.00
ATOM	256	H	ARG	X	17	36.584	44.828	11.910	0.00	0.00
ATOM	257	CA	ARG	X	17	36.409	42.703	12.478	0.00	0.00
ATOM	258	HA	ARG	X	17	35.715	42.148	13.109	0.00	0.00
ATOM	259	CB	ARG	X	17	36.050	42.472	10.978	0.00	0.00
ATOM	260	HB2	ARG	X	17	35.039	42.836	10.797	0.00	0.00
ATOM	261	HB3	ARG	X	17	36.739	43.046	10.358	0.00	0.00
ATOM	262	CG	ARG	X	17	36.245	40.985	10.499	0.00	0.00
ATOM	263	HG2	ARG	X	17	37.292	40.758	10.695	0.00	0.00
ATOM	264	HG3	ARG	X	17	35.515	40.300	10.932	0.00	0.00
ATOM	265	CD	ARG	X	17	35.947	40.917	8.959	0.00	0.00
ATOM	266	HD2	ARG	X	17	35.126	41.548	8.617	0.00	0.00

ATOM	267	HD3	ARG	X	17	36.858	41.232	8.451	0.00	0.00
ATOM	268	NE	ARG	X	17	35.779	39.510	8.533	0.00	0.00
ATOM	269	HE	ARG	X	17	34.847	39.305	8.203	0.00	0.00
ATOM	270	CZ	ARG	X	17	36.751	38.605	8.409	0.00	0.00
ATOM	271	NH1	ARG	X	17	37.981	38.859	8.834	0.00	0.00
ATOM	272	HH11	ARG	X	17	38.230	39.745	9.248	0.00	0.00
ATOM	273	HH12	ARG	X	17	38.733	38.218	8.622	0.00	0.00
ATOM	274	NH2	ARG	X	17	36.586	37.456	7.863	0.00	0.00
ATOM	275	HH21	ARG	X	17	35.671	37.177	7.540	0.00	0.00
ATOM	276	HH22	ARG	X	17	37.293	36.735	7.894	0.00	0.00
ATOM	277	C	ARG	X	17	37.926	42.429	12.734	0.00	0.00
ATOM	278	O	ARG	X	17	38.794	43.193	12.358	0.00	0.00
ATOM	279	N	LEU	X	18	38.243	41.303	13.415	0.00	0.00
ATOM	280	H	LEU	X	18	37.504	40.741	13.811	0.00	0.00
ATOM	281	CA	LEU	X	18	39.536	40.701	13.490	0.00	0.00
ATOM	282	HA	LEU	X	18	40.306	41.365	13.095	0.00	0.00
ATOM	283	CB	LEU	X	18	39.900	40.527	15.038	0.00	0.00
ATOM	284	HB2	LEU	X	18	39.270	39.735	15.441	0.00	0.00
ATOM	285	HB3	LEU	X	18	40.878	40.069	15.186	0.00	0.00
ATOM	286	CG	LEU	X	18	39.925	41.863	15.849	0.00	0.00
ATOM	287	HG	LEU	X	18	38.997	42.415	15.697	0.00	0.00
ATOM	288	CD1	LEU	X	18	40.186	41.597	17.363	0.00	0.00
ATOM	289	HD11	LEU	X	18	40.141	42.579	17.833	0.00	0.00
ATOM	290	HD12	LEU	X	18	41.096	41.054	17.617	0.00	0.00
ATOM	291	HD13	LEU	X	18	39.280	41.124	17.743	0.00	0.00
ATOM	292	CD2	LEU	X	18	41.035	42.734	15.310	0.00	0.00
ATOM	293	HD21	LEU	X	18	41.061	43.730	15.750	0.00	0.00
ATOM	294	HD22	LEU	X	18	41.996	42.271	15.534	0.00	0.00
ATOM	295	HD23	LEU	X	18	41.025	42.977	14.247	0.00	0.00
ATOM	296	C	LEU	X	18	39.650	39.359	12.822	0.00	0.00
ATOM	297	O	LEU	X	18	38.652	38.651	12.664	0.00	0.00
ATOM	298	N	LYS	X	19	40.851	38.953	12.399	0.00	0.00
ATOM	299	H	LYS	X	19	41.636	39.571	12.545	0.00	0.00
ATOM	300	CA	LYS	X	19	41.195	37.638	11.926	0.00	0.00
ATOM	301	HA	LYS	X	19	40.324	37.135	11.505	0.00	0.00
ATOM	302	CB	LYS	X	19	42.349	37.633	10.857	0.00	0.00
ATOM	303	HB2	LYS	X	19	43.266	37.844	11.408	0.00	0.00
ATOM	304	HB3	LYS	X	19	42.374	36.716	10.270	0.00	0.00
ATOM	305	CG	LYS	X	19	42.208	38.787	9.878	0.00	0.00
ATOM	306	HG2	LYS	X	19	41.290	38.819	9.291	0.00	0.00
ATOM	307	HG3	LYS	X	19	42.459	39.664	10.474	0.00	0.00
ATOM	308	CD	LYS	X	19	43.251	38.777	8.776	0.00	0.00
ATOM	309	HD2	LYS	X	19	44.237	38.582	9.199	0.00	0.00
ATOM	310	HD3	LYS	X	19	42.975	37.949	8.123	0.00	0.00
ATOM	311	CE	LYS	X	19	43.438	40.091	8.028	0.00	0.00
ATOM	312	HE2	LYS	X	19	42.549	40.391	7.473	0.00	0.00
ATOM	313	HE3	LYS	X	19	43.662	40.825	8.803	0.00	0.00
ATOM	314	NZ	LYS	X	19	44.578	39.989	7.060	0.00	0.00
ATOM	315	HZ1	LYS	X	19	45.431	39.607	7.445	0.00	0.00
ATOM	316	HZ2	LYS	X	19	44.211	39.368	6.353	0.00	0.00
ATOM	317	HZ3	LYS	X	19	44.859	40.882	6.681	0.00	0.00
ATOM	318	C	LYS	X	19	41.707	36.779	13.086	0.00	0.00
ATOM	319	O	LYS	X	19	42.401	37.205	14.004	0.00	0.00
ATOM	320	N	THR	X	20	41.642	35.448	12.920	0.00	0.00
ATOM	321	H	THR	X	20	40.960	35.138	12.243	0.00	0.00
ATOM	322	CA	THR	X	20	42.015	34.414	13.884	0.00	0.00
ATOM	323	HA	THR	X	20	42.958	34.648	14.378	0.00	0.00
ATOM	324	CB	THR	X	20	41.013	34.291	15.079	0.00	0.00
ATOM	325	HB	THR	X	20	40.733	33.240	15.155	0.00	0.00
ATOM	326	CG2	THR	X	20	41.558	34.715	16.416	0.00	0.00
ATOM	327	HG21	THR	X	20	42.583	34.345	16.454	0.00	0.00
ATOM	328	HG22	THR	X	20	40.949	34.295	17.216	0.00	0.00
ATOM	329	HG23	THR	X	20	41.598	35.795	16.556	0.00	0.00
ATOM	330	OG1	THR	X	20	39.811	34.955	14.771	0.00	0.00
ATOM	331	HG1	THR	X	20	39.280	34.408	14.188	0.00	0.00
ATOM	332	C	THR	X	20	42.246	33.061	13.179	0.00	0.00
ATOM	333	O	THR	X	20	41.623	32.823	12.088	0.00	0.00

ATOM	334	N	PRO	X	21	43.114	32.175	13.669	0.00	0.00
ATOM	335	CD	PRO	X	21	43.929	32.304	14.906	0.00	0.00
ATOM	336	HD2	PRO	X	21	43.294	32.487	15.772	0.00	0.00
ATOM	337	HD3	PRO	X	21	44.642	33.120	14.783	0.00	0.00
ATOM	338	CG	PRO	X	21	44.637	30.916	15.076	0.00	0.00
ATOM	339	HG2	PRO	X	21	43.926	30.308	15.635	0.00	0.00
ATOM	340	HG3	PRO	X	21	45.608	31.025	15.559	0.00	0.00
ATOM	341	CB	PRO	X	21	44.754	30.354	13.640	0.00	0.00
ATOM	342	HB2	PRO	X	21	44.787	29.268	13.552	0.00	0.00
ATOM	343	HB3	PRO	X	21	45.618	30.782	13.130	0.00	0.00
ATOM	344	CA	PRO	X	21	43.553	30.954	12.921	0.00	0.00
ATOM	345	HA	PRO	X	21	43.793	31.126	11.872	0.00	0.00
ATOM	346	C	PRO	X	21	42.401	29.876	12.870	0.00	0.00
ATOM	347	O	PRO	X	21	42.415	29.037	11.966	0.00	0.00
ATOM	348	N	GLY	X	22	41.336	29.931	13.698	0.00	0.00
ATOM	349	H	GLY	X	22	41.348	30.610	14.445	0.00	0.00
ATOM	350	CA	GLY	X	22	40.060	29.157	13.603	0.00	0.00
ATOM	351	HA2	GLY	X	22	40.286	28.172	13.195	0.00	0.00
ATOM	352	HA3	GLY	X	22	39.674	29.049	14.617	0.00	0.00
ATOM	353	C	GLY	X	22	38.969	29.846	12.800	0.00	0.00
ATOM	354	O	GLY	X	22	37.838	29.320	12.851	0.00	0.00
ATOM	355	N	GLY	X	23	39.189	30.967	12.131	0.00	0.00
ATOM	356	H	GLY	X	23	40.171	31.191	12.057	0.00	0.00
ATOM	357	CA	GLY	X	23	38.123	31.831	11.503	0.00	0.00
ATOM	358	HA2	GLY	X	23	38.448	32.221	10.539	0.00	0.00
ATOM	359	HA3	GLY	X	23	37.240	31.241	11.257	0.00	0.00
ATOM	360	C	GLY	X	23	37.798	33.117	12.329	0.00	0.00
ATOM	361	O	GLY	X	23	38.413	33.197	13.424	0.00	0.00
ATOM	362	N	PRO	X	24	36.938	34.061	11.884	0.00	0.00
ATOM	363	CD	PRO	X	24	36.187	33.987	10.673	0.00	0.00
ATOM	364	HD2	PRO	X	24	35.399	33.335	11.049	0.00	0.00
ATOM	365	HD3	PRO	X	24	36.786	33.533	9.884	0.00	0.00
ATOM	366	CG	PRO	X	24	35.662	35.363	10.362	0.00	0.00
ATOM	367	HG2	PRO	X	24	34.634	35.504	10.696	0.00	0.00
ATOM	368	HG3	PRO	X	24	35.602	35.483	9.280	0.00	0.00
ATOM	369	CB	PRO	X	24	36.714	36.249	11.116	0.00	0.00
ATOM	370	HB2	PRO	X	24	36.232	37.181	11.411	0.00	0.00
ATOM	371	HB3	PRO	X	24	37.575	36.480	10.489	0.00	0.00
ATOM	372	CA	PRO	X	24	37.203	35.419	12.303	0.00	0.00
ATOM	373	HA	PRO	X	24	38.263	35.461	12.555	0.00	0.00
ATOM	374	C	PRO	X	24	36.375	35.801	13.524	0.00	0.00
ATOM	375	O	PRO	X	24	35.474	35.009	13.853	0.00	0.00
ATOM	376	N	VAL	X	25	36.726	36.900	14.223	0.00	0.00
ATOM	377	H	VAL	X	25	37.291	37.452	13.595	0.00	0.00
ATOM	378	CA	VAL	X	25	35.987	37.512	15.335	0.00	0.00
ATOM	379	HA	VAL	X	25	34.942	37.204	15.298	0.00	0.00
ATOM	380	CB	VAL	X	25	36.495	37.052	16.772	0.00	0.00
ATOM	381	HB	VAL	X	25	35.875	37.430	17.585	0.00	0.00
ATOM	382	CG1	VAL	X	25	36.424	35.538	16.909	0.00	0.00
ATOM	383	HG11	VAL	X	25	36.709	35.297	17.933	0.00	0.00
ATOM	384	HG12	VAL	X	25	35.395	35.283	16.654	0.00	0.00
ATOM	385	HG13	VAL	X	25	37.175	35.123	16.236	0.00	0.00
ATOM	386	CG2	VAL	X	25	37.962	37.537	16.906	0.00	0.00
ATOM	387	HG21	VAL	X	25	38.039	38.622	16.962	0.00	0.00
ATOM	388	HG22	VAL	X	25	38.568	37.264	16.041	0.00	0.00
ATOM	389	HG23	VAL	X	25	38.364	37.278	17.886	0.00	0.00
ATOM	390	C	VAL	X	25	35.928	39.056	15.103	0.00	0.00
ATOM	391	O	VAL	X	25	36.182	39.501	13.987	0.00	0.00
ATOM	392	N	SER	X	26	35.733	39.849	16.176	0.00	0.00
ATOM	393	H	SER	X	26	35.552	39.468	17.094	0.00	0.00
ATOM	394	CA	SER	X	26	35.533	41.359	16.124	0.00	0.00
ATOM	395	HA	SER	X	26	36.222	41.716	15.358	0.00	0.00
ATOM	396	CB	SER	X	26	34.126	41.544	15.674	0.00	0.00
ATOM	397	HB2	SER	X	26	34.065	42.632	15.672	0.00	0.00
ATOM	398	HB3	SER	X	26	34.016	41.172	14.655	0.00	0.00
ATOM	399	OG	SER	X	26	33.088	41.174	16.583	0.00	0.00
ATOM	400	HG	SER	X	26	33.513	40.629	17.250	0.00	0.00

ATOM	401	C	SER	X	26	35.824	41.997	17.514	0.00	0.00
ATOM	402	O	SER	X	26	36.128	41.288	18.464	0.00	0.00
ATOM	403	N	ALA	X	27	35.726	43.281	17.613	0.00	0.00
ATOM	404	H	ALA	X	27	35.517	43.817	16.783	0.00	0.00
ATOM	405	CA	ALA	X	27	36.154	44.059	18.711	0.00	0.00
ATOM	406	HA	ALA	X	27	35.814	43.535	19.604	0.00	0.00
ATOM	407	CB	ALA	X	27	37.637	44.041	18.822	0.00	0.00
ATOM	408	HB1	ALA	X	27	38.148	44.347	17.910	0.00	0.00
ATOM	409	HB2	ALA	X	27	37.965	43.035	19.083	0.00	0.00
ATOM	410	HB3	ALA	X	27	37.988	44.738	19.582	0.00	0.00
ATOM	411	C	ALA	X	27	35.635	45.519	18.737	0.00	0.00
ATOM	412	O	ALA	X	27	35.706	46.228	17.719	0.00	0.00
ATOM	413	N	PHE	X	28	35.173	45.905	19.974	0.00	0.00
ATOM	414	H	PHE	X	28	35.089	45.135	20.623	0.00	0.00
ATOM	415	CA	PHE	X	28	34.745	47.231	20.316	0.00	0.00
ATOM	416	HA	PHE	X	28	34.890	47.910	19.475	0.00	0.00
ATOM	417	CB	PHE	X	28	33.291	47.206	20.676	0.00	0.00
ATOM	418	HB2	PHE	X	28	33.300	46.572	21.562	0.00	0.00
ATOM	419	HB3	PHE	X	28	33.015	48.156	21.133	0.00	0.00
ATOM	420	CG	PHE	X	28	32.397	46.819	19.539	0.00	0.00
ATOM	421	CD1	PHE	X	28	31.994	45.513	19.302	0.00	0.00
ATOM	422	HD1	PHE	X	28	32.245	44.792	20.067	0.00	0.00
ATOM	423	CE1	PHE	X	28	31.260	45.108	18.206	0.00	0.00
ATOM	424	HE1	PHE	X	28	31.036	44.073	17.990	0.00	0.00
ATOM	425	CZ	PHE	X	28	30.915	46.054	17.267	0.00	0.00
ATOM	426	HZ	PHE	X	28	30.319	45.791	16.405	0.00	0.00
ATOM	427	CE2	PHE	X	28	31.254	47.362	17.504	0.00	0.00
ATOM	428	HE2	PHE	X	28	30.777	48.101	16.878	0.00	0.00
ATOM	429	CD2	PHE	X	28	32.058	47.740	18.580	0.00	0.00
ATOM	430	HD2	PHE	X	28	32.346	48.775	18.688	0.00	0.00
ATOM	431	C	PHE	X	28	35.617	47.627	21.527	0.00	0.00
ATOM	432	O	PHE	X	28	35.688	46.889	22.482	0.00	0.00
ATOM	433	N	LEU	X	29	36.407	48.675	21.360	0.00	0.00
ATOM	434	H	LEU	X	29	36.245	49.344	20.621	0.00	0.00
ATOM	435	CA	LEU	X	29	37.592	48.942	22.210	0.00	0.00
ATOM	436	HA	LEU	X	29	37.478	48.389	23.142	0.00	0.00
ATOM	437	CB	LEU	X	29	38.869	48.503	21.408	0.00	0.00
ATOM	438	HB2	LEU	X	29	38.852	49.170	20.547	0.00	0.00
ATOM	439	HB3	LEU	X	29	39.835	48.699	21.874	0.00	0.00
ATOM	440	CG	LEU	X	29	38.876	47.081	20.944	0.00	0.00
ATOM	441	HG	LEU	X	29	37.935	46.836	20.450	0.00	0.00
ATOM	442	CD1	LEU	X	29	40.018	46.983	19.925	0.00	0.00
ATOM	443	HD11	LEU	X	29	40.273	45.971	19.611	0.00	0.00
ATOM	444	HD12	LEU	X	29	40.946	47.303	20.397	0.00	0.00
ATOM	445	HD13	LEU	X	29	39.805	47.642	19.083	0.00	0.00
ATOM	446	CD2	LEU	X	29	39.014	46.017	22.054	0.00	0.00
ATOM	447	HD21	LEU	X	29	39.006	45.011	21.635	0.00	0.00
ATOM	448	HD22	LEU	X	29	39.986	46.178	22.522	0.00	0.00
ATOM	449	HD23	LEU	X	29	38.210	46.150	22.778	0.00	0.00
ATOM	450	C	LEU	X	29	37.693	50.391	22.697	0.00	0.00
ATOM	451	O	LEU	X	29	37.406	51.348	21.970	0.00	0.00
ATOM	452	N	GLY	X	30	38.151	50.530	23.951	0.00	0.00
ATOM	453	H	GLY	X	30	38.302	49.630	24.384	0.00	0.00
ATOM	454	CA	GLY	X	30	38.460	51.742	24.726	0.00	0.00
ATOM	455	HA2	GLY	X	30	38.667	51.350	25.722	0.00	0.00
ATOM	456	HA3	GLY	X	30	39.263	52.244	24.187	0.00	0.00
ATOM	457	C	GLY	X	30	37.280	52.691	24.853	0.00	0.00
ATOM	458	O	GLY	X	30	37.344	53.898	24.745	0.00	0.00
ATOM	459	N	ILE	X	31	36.116	52.075	25.246	0.00	0.00
ATOM	460	H	ILE	X	31	36.259	51.117	25.533	0.00	0.00
ATOM	461	CA	ILE	X	31	34.796	52.599	25.355	0.00	0.00
ATOM	462	HA	ILE	X	31	34.722	53.303	24.526	0.00	0.00
ATOM	463	CB	ILE	X	31	33.743	51.457	25.119	0.00	0.00
ATOM	464	HB	ILE	X	31	33.793	50.769	25.963	0.00	0.00
ATOM	465	CG2	ILE	X	31	32.349	52.196	25.150	0.00	0.00
ATOM	466	HG21	ILE	X	31	32.111	52.853	25.987	0.00	0.00
ATOM	467	HG22	ILE	X	31	31.674	51.342	25.105	0.00	0.00

ATOM	468	HG23	ILE	X	31	32.179	52.731	24.216	0.00	0.00
ATOM	469	CG1	ILE	X	31	33.935	50.578	23.841	0.00	0.00
ATOM	470	HG12	ILE	X	31	33.821	51.234	22.978	0.00	0.00
ATOM	471	HG13	ILE	X	31	34.967	50.250	23.712	0.00	0.00
ATOM	472	CD1	ILE	X	31	33.038	49.353	23.969	0.00	0.00
ATOM	473	HD11	ILE	X	31	31.975	49.591	23.927	0.00	0.00
ATOM	474	HD12	ILE	X	31	33.232	48.867	24.926	0.00	0.00
ATOM	475	HD13	ILE	X	31	33.241	48.676	23.140	0.00	0.00
ATOM	476	C	ILE	X	31	34.597	53.292	26.733	0.00	0.00
ATOM	477	O	ILE	X	31	34.769	52.567	27.777	0.00	0.00
ATOM	478	N	PRO	X	32	34.270	54.558	26.802	0.00	0.00
ATOM	479	CD	PRO	X	32	34.292	55.414	25.609	0.00	0.00
ATOM	480	HD2	PRO	X	32	33.618	54.969	24.877	0.00	0.00
ATOM	481	HD3	PRO	X	32	35.307	55.440	25.212	0.00	0.00
ATOM	482	CG	PRO	X	32	33.782	56.769	26.158	0.00	0.00
ATOM	483	HG2	PRO	X	32	32.694	56.748	26.220	0.00	0.00
ATOM	484	HG3	PRO	X	32	34.208	57.635	25.651	0.00	0.00
ATOM	485	CB	PRO	X	32	34.325	56.747	27.567	0.00	0.00
ATOM	486	HB2	PRO	X	32	33.855	57.519	28.176	0.00	0.00
ATOM	487	HB3	PRO	X	32	35.384	57.002	27.607	0.00	0.00
ATOM	488	CA	PRO	X	32	34.253	55.289	28.029	0.00	0.00
ATOM	489	HA	PRO	X	32	35.152	55.074	28.607	0.00	0.00
ATOM	490	C	PRO	X	32	32.986	54.892	28.791	0.00	0.00
ATOM	491	O	PRO	X	32	31.892	55.104	28.380	0.00	0.00
ATOM	492	N	PHE	X	33	33.066	54.154	29.964	0.00	0.00
ATOM	493	H	PHE	X	33	33.996	53.885	30.251	0.00	0.00
ATOM	494	CA	PHE	X	33	31.976	53.809	30.879	0.00	0.00
ATOM	495	HA	PHE	X	33	31.121	53.556	30.253	0.00	0.00
ATOM	496	CB	PHE	X	33	32.252	52.494	31.641	0.00	0.00
ATOM	497	HB2	PHE	X	33	31.366	52.125	32.159	0.00	0.00
ATOM	498	HB3	PHE	X	33	32.472	51.702	30.924	0.00	0.00
ATOM	499	CG	PHE	X	33	33.463	52.446	32.611	0.00	0.00
ATOM	500	CD1	PHE	X	33	33.305	53.078	33.873	0.00	0.00
ATOM	501	HD1	PHE	X	33	32.393	53.631	34.042	0.00	0.00
ATOM	502	CE1	PHE	X	33	34.376	53.052	34.786	0.00	0.00
ATOM	503	HE1	PHE	X	33	34.224	53.514	35.751	0.00	0.00
ATOM	504	CZ	PHE	X	33	35.491	52.201	34.554	0.00	0.00
ATOM	505	HZ	PHE	X	33	36.309	52.144	35.257	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.640	51.605	33.311	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.460	50.937	33.094	0.00	0.00
ATOM	508	CD2	PHE	X	33	34.586	51.605	32.335	0.00	0.00
ATOM	509	HD2	PHE	X	33	34.666	51.125	31.371	0.00	0.00
ATOM	510	C	PHE	X	33	31.555	54.966	31.843	0.00	0.00
ATOM	511	O	PHE	X	33	30.615	54.861	32.580	0.00	0.00
ATOM	512	N	ALA	X	34	32.348	56.062	31.811	0.00	0.00
ATOM	513	H	ALA	X	34	33.004	56.023	31.044	0.00	0.00
ATOM	514	CA	ALA	X	34	32.391	57.242	32.692	0.00	0.00
ATOM	515	HA	ALA	X	34	31.382	57.321	33.098	0.00	0.00
ATOM	516	CB	ALA	X	34	33.353	57.061	33.935	0.00	0.00
ATOM	517	HB1	ALA	X	34	33.449	57.989	34.497	0.00	0.00
ATOM	518	HB2	ALA	X	34	34.310	56.588	33.712	0.00	0.00
ATOM	519	HB3	ALA	X	34	32.888	56.235	34.473	0.00	0.00
ATOM	520	C	ALA	X	34	32.683	58.489	31.924	0.00	0.00
ATOM	521	O	ALA	X	34	33.238	58.386	30.789	0.00	0.00
ATOM	522	N	GLU	X	35	32.339	59.621	32.491	0.00	0.00
ATOM	523	H	GLU	X	35	31.862	59.504	33.374	0.00	0.00
ATOM	524	CA	GLU	X	35	33.041	60.860	32.353	0.00	0.00
ATOM	525	HA	GLU	X	35	33.036	61.155	31.303	0.00	0.00
ATOM	526	CB	GLU	X	35	32.333	61.932	33.183	0.00	0.00
ATOM	527	HB2	GLU	X	35	32.244	61.707	34.246	0.00	0.00
ATOM	528	HB3	GLU	X	35	32.904	62.859	33.237	0.00	0.00
ATOM	529	CG	GLU	X	35	30.880	62.227	32.638	0.00	0.00
ATOM	530	HG2	GLU	X	35	30.418	61.241	32.598	0.00	0.00
ATOM	531	HG3	GLU	X	35	30.302	62.808	33.357	0.00	0.00
ATOM	532	CD	GLU	X	35	30.837	62.785	31.203	0.00	0.00
ATOM	533	OE1	GLU	X	35	30.413	62.045	30.307	0.00	0.00
ATOM	534	OE2	GLU	X	35	31.306	63.940	31.129	0.00	0.00

ATOM	535	C	GLU	X	35	34.535	60.815	32.808	0.00	0.00
ATOM	536	O	GLU	X	35	34.915	59.922	33.620	0.00	0.00
ATOM	537	N	PRO	X	36	35.468	61.626	32.300	0.00	0.00
ATOM	538	CD	PRO	X	36	35.270	62.645	31.267	0.00	0.00
ATOM	539	HD2	PRO	X	36	34.426	63.255	31.590	0.00	0.00
ATOM	540	HD3	PRO	X	36	35.028	62.122	30.342	0.00	0.00
ATOM	541	CG	PRO	X	36	36.551	63.472	31.270	0.00	0.00
ATOM	542	HG2	PRO	X	36	36.597	64.134	32.135	0.00	0.00
ATOM	543	HG3	PRO	X	36	36.755	63.936	30.305	0.00	0.00
ATOM	544	CB	PRO	X	36	37.615	62.386	31.527	0.00	0.00
ATOM	545	HB2	PRO	X	36	38.564	62.890	31.712	0.00	0.00
ATOM	546	HB3	PRO	X	36	37.665	61.796	30.612	0.00	0.00
ATOM	547	CA	PRO	X	36	36.883	61.556	32.607	0.00	0.00
ATOM	548	HA	PRO	X	36	37.245	60.535	32.480	0.00	0.00
ATOM	549	C	PRO	X	36	37.168	62.102	34.029	0.00	0.00
ATOM	550	O	PRO	X	36	36.833	63.212	34.344	0.00	0.00
ATOM	551	N	PRO	X	37	37.775	61.290	34.932	0.00	0.00
ATOM	552	CD	PRO	X	37	38.127	59.890	34.718	0.00	0.00
ATOM	553	HD2	PRO	X	37	38.905	59.815	33.959	0.00	0.00
ATOM	554	HD3	PRO	X	37	37.237	59.339	34.411	0.00	0.00
ATOM	555	CG	PRO	X	37	38.559	59.448	36.122	0.00	0.00
ATOM	556	HG2	PRO	X	37	39.625	59.610	36.279	0.00	0.00
ATOM	557	HG3	PRO	X	37	38.443	58.388	36.349	0.00	0.00
ATOM	558	CB	PRO	X	37	37.704	60.294	37.054	0.00	0.00
ATOM	559	HB2	PRO	X	37	38.254	60.398	37.989	0.00	0.00
ATOM	560	HB3	PRO	X	37	36.673	59.969	37.192	0.00	0.00
ATOM	561	CA	PRO	X	37	37.780	61.674	36.354	0.00	0.00
ATOM	562	HA	PRO	X	37	36.909	62.260	36.646	0.00	0.00
ATOM	563	C	PRO	X	37	39.033	62.540	36.758	0.00	0.00
ATOM	564	O	PRO	X	37	39.725	62.381	37.741	0.00	0.00
ATOM	565	N	MET	X	38	39.351	63.457	35.830	0.00	0.00
ATOM	566	H	MET	X	38	38.882	63.471	34.936	0.00	0.00
ATOM	567	CA	MET	X	38	40.438	64.471	35.991	0.00	0.00
ATOM	568	HA	MET	X	38	41.286	63.917	36.393	0.00	0.00
ATOM	569	CB	MET	X	38	40.814	65.065	34.625	0.00	0.00
ATOM	570	HB2	MET	X	38	41.705	65.671	34.789	0.00	0.00
ATOM	571	HB3	MET	X	38	41.012	64.196	33.997	0.00	0.00
ATOM	572	CG	MET	X	38	39.736	65.847	34.009	0.00	0.00
ATOM	573	HG2	MET	X	38	38.794	65.303	34.080	0.00	0.00
ATOM	574	HG3	MET	X	38	39.601	66.752	34.601	0.00	0.00
ATOM	575	SD	MET	X	38	40.076	66.352	32.289	0.00	0.00
ATOM	576	CE	MET	X	38	38.518	67.218	31.954	0.00	0.00
ATOM	577	HE1	MET	X	38	37.646	66.632	32.245	0.00	0.00
ATOM	578	HE2	MET	X	38	38.571	68.195	32.433	0.00	0.00
ATOM	579	HE3	MET	X	38	38.436	67.528	30.912	0.00	0.00
ATOM	580	C	MET	X	38	40.148	65.674	36.980	0.00	0.00
ATOM	581	O	MET	X	38	39.023	66.088	37.146	0.00	0.00
ATOM	582	N	GLY	X	39	41.208	66.085	37.690	0.00	0.00
ATOM	583	H	GLY	X	39	42.093	65.642	37.491	0.00	0.00
ATOM	584	CA	GLY	X	39	41.208	67.281	38.509	0.00	0.00
ATOM	585	HA2	GLY	X	39	42.265	67.374	38.759	0.00	0.00
ATOM	586	HA3	GLY	X	39	40.945	68.026	37.758	0.00	0.00
ATOM	587	C	GLY	X	39	40.279	67.164	39.700	0.00	0.00
ATOM	588	O	GLY	X	39	40.556	66.354	40.573	0.00	0.00
ATOM	589	N	PRO	X	40	39.130	67.874	39.823	0.00	0.00
ATOM	590	CD	PRO	X	40	38.814	69.017	39.038	0.00	0.00
ATOM	591	HD2	PRO	X	40	38.440	68.672	38.074	0.00	0.00
ATOM	592	HD3	PRO	X	40	39.653	69.708	38.953	0.00	0.00
ATOM	593	CG	PRO	X	40	37.753	69.859	39.849	0.00	0.00
ATOM	594	HG2	PRO	X	40	36.903	70.258	39.297	0.00	0.00
ATOM	595	HG3	PRO	X	40	38.261	70.459	40.605	0.00	0.00
ATOM	596	CB	PRO	X	40	37.136	68.755	40.747	0.00	0.00
ATOM	597	HB2	PRO	X	40	36.362	68.273	40.149	0.00	0.00
ATOM	598	HB3	PRO	X	40	36.695	69.352	41.545	0.00	0.00
ATOM	599	CA	PRO	X	40	38.308	67.819	41.065	0.00	0.00
ATOM	600	HA	PRO	X	40	38.870	68.239	41.899	0.00	0.00
ATOM	601	C	PRO	X	40	37.751	66.453	41.371	0.00	0.00

ATOM	602	O	PRO	X	40	37.567	66.115	42.511	0.00	0.00
ATOM	603	N	ARG	X	41	37.487	65.607	40.359	0.00	0.00
ATOM	604	H	ARG	X	41	37.887	65.956	39.500	0.00	0.00
ATOM	605	CA	ARG	X	41	37.123	64.164	40.446	0.00	0.00
ATOM	606	HA	ARG	X	41	36.303	64.114	41.163	0.00	0.00
ATOM	607	CB	ARG	X	41	36.624	63.647	39.106	0.00	0.00
ATOM	608	HB2	ARG	X	41	37.164	64.088	38.269	0.00	0.00
ATOM	609	HB3	ARG	X	41	36.700	62.560	39.078	0.00	0.00
ATOM	610	CG	ARG	X	41	35.080	63.917	38.803	0.00	0.00
ATOM	611	HG2	ARG	X	41	35.014	65.003	38.751	0.00	0.00
ATOM	612	HG3	ARG	X	41	34.810	63.554	37.811	0.00	0.00
ATOM	613	CD	ARG	X	41	34.183	63.216	39.795	0.00	0.00
ATOM	614	HD2	ARG	X	41	33.397	62.777	39.181	0.00	0.00
ATOM	615	HD3	ARG	X	41	34.671	62.349	40.240	0.00	0.00
ATOM	616	NE	ARG	X	41	33.414	64.127	40.677	0.00	0.00
ATOM	617	HE	ARG	X	41	33.534	65.118	40.522	0.00	0.00
ATOM	618	CZ	ARG	X	41	32.852	63.735	41.839	0.00	0.00
ATOM	619	NH1	ARG	X	41	32.767	62.504	42.228	0.00	0.00
ATOM	620	HH11	ARG	X	41	33.100	61.700	41.715	0.00	0.00
ATOM	621	HH12	ARG	X	41	32.131	62.385	43.004	0.00	0.00
ATOM	622	NH2	ARG	X	41	32.328	64.609	42.664	0.00	0.00
ATOM	623	HH21	ARG	X	41	32.411	65.601	42.492	0.00	0.00
ATOM	624	HH22	ARG	X	41	32.170	64.375	43.634	0.00	0.00
ATOM	625	C	ARG	X	41	38.202	63.102	40.871	0.00	0.00
ATOM	626	O	ARG	X	41	37.873	62.014	41.171	0.00	0.00
ATOM	627	N	ARG	X	42	39.499	63.587	40.925	0.00	0.00
ATOM	628	H	ARG	X	42	39.553	64.564	40.671	0.00	0.00
ATOM	629	CA	ARG	X	42	40.640	62.854	41.489	0.00	0.00
ATOM	630	HA	ARG	X	42	40.860	61.984	40.870	0.00	0.00
ATOM	631	CB	ARG	X	42	41.828	63.782	41.237	0.00	0.00
ATOM	632	HB2	ARG	X	42	41.991	63.970	40.176	0.00	0.00
ATOM	633	HB3	ARG	X	42	41.570	64.690	41.783	0.00	0.00
ATOM	634	CG	ARG	X	42	43.232	63.206	41.721	0.00	0.00
ATOM	635	HG2	ARG	X	42	43.168	62.907	42.768	0.00	0.00
ATOM	636	HG3	ARG	X	42	43.451	62.287	41.178	0.00	0.00
ATOM	637	CD	ARG	X	42	44.383	64.269	41.586	0.00	0.00
ATOM	638	HD2	ARG	X	42	44.190	65.034	42.339	0.00	0.00
ATOM	639	HD3	ARG	X	42	45.310	63.755	41.839	0.00	0.00
ATOM	640	NE	ARG	X	42	44.502	64.810	40.252	0.00	0.00
ATOM	641	HE	ARG	X	42	43.917	64.495	39.492	0.00	0.00
ATOM	642	CZ	ARG	X	42	45.247	65.863	39.956	0.00	0.00
ATOM	643	NH1	ARG	X	42	45.955	66.438	40.902	0.00	0.00
ATOM	644	HH11	ARG	X	42	45.978	66.170	41.875	0.00	0.00
ATOM	645	HH12	ARG	X	42	46.592	67.203	40.730	0.00	0.00
ATOM	646	NH2	ARG	X	42	45.221	66.324	38.773	0.00	0.00
ATOM	647	HH21	ARG	X	42	44.644	65.833	38.104	0.00	0.00
ATOM	648	HH22	ARG	X	42	45.653	67.191	38.487	0.00	0.00
ATOM	649	C	ARG	X	42	40.438	62.563	42.975	0.00	0.00
ATOM	650	O	ARG	X	42	40.106	63.406	43.767	0.00	0.00
ATOM	651	N	PHE	X	43	40.532	61.275	43.300	0.00	0.00
ATOM	652	H	PHE	X	43	40.908	60.624	42.625	0.00	0.00
ATOM	653	CA	PHE	X	43	40.364	60.774	44.646	0.00	0.00
ATOM	654	HA	PHE	X	43	40.596	59.709	44.651	0.00	0.00
ATOM	655	CB	PHE	X	43	41.247	61.440	45.764	0.00	0.00
ATOM	656	HB2	PHE	X	43	40.858	62.316	46.284	0.00	0.00
ATOM	657	HB3	PHE	X	43	41.421	60.766	46.603	0.00	0.00
ATOM	658	CG	PHE	X	43	42.655	61.858	45.405	0.00	0.00
ATOM	659	CD1	PHE	X	43	43.589	60.853	45.016	0.00	0.00
ATOM	660	HD1	PHE	X	43	43.213	59.844	44.932	0.00	0.00
ATOM	661	CE1	PHE	X	43	44.953	61.161	44.750	0.00	0.00
ATOM	662	HE1	PHE	X	43	45.637	60.352	44.536	0.00	0.00
ATOM	663	CZ	PHE	X	43	45.329	62.544	44.916	0.00	0.00
ATOM	664	HZ	PHE	X	43	46.354	62.817	44.712	0.00	0.00
ATOM	665	CE2	PHE	X	43	44.387	63.538	45.316	0.00	0.00
ATOM	666	HE2	PHE	X	43	44.730	64.547	45.489	0.00	0.00
ATOM	667	CD2	PHE	X	43	43.022	63.242	45.585	0.00	0.00
ATOM	668	HD2	PHE	X	43	42.297	63.963	45.933	0.00	0.00

ATOM	669	C	PHE	X	43	38.872	60.691	45.008	0.00	0.00
ATOM	670	O	PHE	X	43	38.594	60.242	46.108	0.00	0.00
ATOM	671	N	LEU	X	44	37.894	61.127	44.254	0.00	0.00
ATOM	672	H	LEU	X	44	38.068	61.425	43.305	0.00	0.00
ATOM	673	CA	LEU	X	44	36.471	60.906	44.484	0.00	0.00
ATOM	674	HA	LEU	X	44	36.331	60.523	45.495	0.00	0.00
ATOM	675	CB	LEU	X	44	35.707	62.254	44.322	0.00	0.00
ATOM	676	HB2	LEU	X	44	36.102	62.715	43.417	0.00	0.00
ATOM	677	HB3	LEU	X	44	34.639	62.072	44.204	0.00	0.00
ATOM	678	CG	LEU	X	44	35.834	63.216	45.519	0.00	0.00
ATOM	679	HG	LEU	X	44	36.800	63.243	46.024	0.00	0.00
ATOM	680	CD1	LEU	X	44	35.423	64.569	44.898	0.00	0.00
ATOM	681	HD11	LEU	X	44	35.362	65.383	45.621	0.00	0.00
ATOM	682	HD12	LEU	X	44	34.479	64.461	44.365	0.00	0.00
ATOM	683	HD13	LEU	X	44	36.195	64.863	44.187	0.00	0.00
ATOM	684	CD2	LEU	X	44	34.940	62.885	46.768	0.00	0.00
ATOM	685	HD21	LEU	X	44	33.878	63.006	46.557	0.00	0.00
ATOM	686	HD22	LEU	X	44	35.058	61.851	47.093	0.00	0.00
ATOM	687	HD23	LEU	X	44	35.251	63.406	47.673	0.00	0.00
ATOM	688	C	LEU	X	44	35.985	59.840	43.505	0.00	0.00
ATOM	689	O	LEU	X	44	36.756	59.440	42.614	0.00	0.00
ATOM	690	N	PRO	X	45	34.752	59.290	43.685	0.00	0.00
ATOM	691	CD	PRO	X	45	33.909	59.622	44.749	0.00	0.00
ATOM	692	HD2	PRO	X	45	33.340	60.527	44.538	0.00	0.00
ATOM	693	HD3	PRO	X	45	34.325	59.777	45.744	0.00	0.00
ATOM	694	CG	PRO	X	45	32.987	58.407	44.892	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.049	58.693	45.368	0.00	0.00
ATOM	696	HG3	PRO	X	45	33.431	57.584	45.452	0.00	0.00
ATOM	697	CB	PRO	X	45	32.727	57.980	43.482	0.00	0.00
ATOM	698	HB2	PRO	X	45	31.876	58.499	43.041	0.00	0.00
ATOM	699	HB3	PRO	X	45	32.426	56.938	43.372	0.00	0.00
ATOM	700	CA	PRO	X	45	34.097	58.365	42.787	0.00	0.00
ATOM	701	HA	PRO	X	45	34.659	57.431	42.771	0.00	0.00
ATOM	702	C	PRO	X	45	33.852	58.935	41.356	0.00	0.00
ATOM	703	O	PRO	X	45	33.904	60.168	41.177	0.00	0.00
ATOM	704	N	PRO	X	46	33.673	58.132	40.251	0.00	0.00
ATOM	705	CD	PRO	X	46	33.793	56.676	40.324	0.00	0.00
ATOM	706	HD2	PRO	X	46	33.044	56.273	41.006	0.00	0.00
ATOM	707	HD3	PRO	X	46	34.810	56.518	40.683	0.00	0.00
ATOM	708	CG	PRO	X	46	33.538	56.152	38.993	0.00	0.00
ATOM	709	HG2	PRO	X	46	32.474	55.921	38.959	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.078	55.236	38.752	0.00	0.00
ATOM	711	CB	PRO	X	46	33.910	57.344	38.038	0.00	0.00
ATOM	712	HB2	PRO	X	46	33.553	57.259	37.012	0.00	0.00
ATOM	713	HB3	PRO	X	46	34.996	57.253	38.035	0.00	0.00
ATOM	714	CA	PRO	X	46	33.465	58.509	38.848	0.00	0.00
ATOM	715	HA	PRO	X	46	34.170	59.299	38.587	0.00	0.00
ATOM	716	C	PRO	X	46	32.044	58.934	38.622	0.00	0.00
ATOM	717	O	PRO	X	46	31.193	58.797	39.533	0.00	0.00
ATOM	718	N	GLU	X	47	31.712	59.395	37.426	0.00	0.00
ATOM	719	H	GLU	X	47	32.502	59.711	36.881	0.00	0.00
ATOM	720	CA	GLU	X	47	30.383	59.758	37.040	0.00	0.00
ATOM	721	HA	GLU	X	47	29.654	59.453	37.791	0.00	0.00
ATOM	722	CB	GLU	X	47	30.315	61.254	36.742	0.00	0.00
ATOM	723	HB2	GLU	X	47	30.980	61.410	35.893	0.00	0.00
ATOM	724	HB3	GLU	X	47	29.320	61.315	36.300	0.00	0.00
ATOM	725	CG	GLU	X	47	30.504	62.103	37.965	0.00	0.00
ATOM	726	HG2	GLU	X	47	30.091	61.490	38.766	0.00	0.00
ATOM	727	HG3	GLU	X	47	31.530	62.407	38.173	0.00	0.00
ATOM	728	CD	GLU	X	47	29.740	63.335	37.958	0.00	0.00
ATOM	729	OE1	GLU	X	47	29.809	64.037	36.880	0.00	0.00
ATOM	730	OE2	GLU	X	47	29.087	63.722	38.951	0.00	0.00
ATOM	731	C	GLU	X	47	30.087	59.015	35.758	0.00	0.00
ATOM	732	O	GLU	X	47	30.990	58.855	34.889	0.00	0.00
ATOM	733	N	PRO	X	48	28.793	58.567	35.569	0.00	0.00
ATOM	734	CD	PRO	X	48	27.670	58.660	36.411	0.00	0.00
ATOM	735	HD2	PRO	X	48	27.553	59.664	36.818	0.00	0.00

ATOM	736	HD3	PRO	X	48	27.574	57.868	37.153	0.00	0.00
ATOM	737	CG	PRO	X	48	26.427	58.457	35.529	0.00	0.00
ATOM	738	HG2	PRO	X	48	26.122	59.373	35.023	0.00	0.00
ATOM	739	HG3	PRO	X	48	25.561	58.120	36.098	0.00	0.00
ATOM	740	CB	PRO	X	48	26.940	57.397	34.516	0.00	0.00
ATOM	741	HB2	PRO	X	48	26.303	57.395	33.632	0.00	0.00
ATOM	742	HB3	PRO	X	48	26.939	56.466	35.083	0.00	0.00
ATOM	743	CA	PRO	X	48	28.383	57.785	34.373	0.00	0.00
ATOM	744	HA	PRO	X	48	29.103	56.967	34.370	0.00	0.00
ATOM	745	C	PRO	X	48	28.622	58.680	33.125	0.00	0.00
ATOM	746	O	PRO	X	48	28.159	59.803	33.029	0.00	0.00
ATOM	747	N	LYS	X	49	29.163	58.059	32.034	0.00	0.00
ATOM	748	H	LYS	X	49	29.437	57.089	31.970	0.00	0.00
ATOM	749	CA	LYS	X	49	29.277	58.820	30.711	0.00	0.00
ATOM	750	HA	LYS	X	49	29.982	59.649	30.768	0.00	0.00
ATOM	751	CB	LYS	X	49	29.878	57.715	29.773	0.00	0.00
ATOM	752	HB2	LYS	X	49	30.899	57.535	30.109	0.00	0.00
ATOM	753	HB3	LYS	X	49	29.233	56.841	29.860	0.00	0.00
ATOM	754	CG	LYS	X	49	29.851	58.074	28.303	0.00	0.00
ATOM	755	HG2	LYS	X	49	30.193	57.240	27.690	0.00	0.00
ATOM	756	HG3	LYS	X	49	28.809	58.239	28.026	0.00	0.00
ATOM	757	CD	LYS	X	49	30.696	59.167	27.804	0.00	0.00
ATOM	758	HD2	LYS	X	49	30.473	60.080	28.355	0.00	0.00
ATOM	759	HD3	LYS	X	49	31.750	59.034	28.052	0.00	0.00
ATOM	760	CE	LYS	X	49	30.431	59.420	26.278	0.00	0.00
ATOM	761	HE2	LYS	X	49	30.754	58.529	25.739	0.00	0.00
ATOM	762	HE3	LYS	X	49	29.382	59.526	26.000	0.00	0.00
ATOM	763	NZ	LYS	X	49	31.263	60.495	25.780	0.00	0.00
ATOM	764	HZ1	LYS	X	49	31.087	61.404	26.183	0.00	0.00
ATOM	765	HZ2	LYS	X	49	32.252	60.354	25.925	0.00	0.00
ATOM	766	HZ3	LYS	X	49	31.175	60.622	24.782	0.00	0.00
ATOM	767	C	LYS	X	49	27.869	59.353	30.164	0.00	0.00
ATOM	768	O	LYS	X	49	26.864	58.639	30.082	0.00	0.00
ATOM	769	N	GLN	X	50	27.899	60.591	29.722	0.00	0.00
ATOM	770	H	GLN	X	50	28.742	61.136	29.827	0.00	0.00
ATOM	771	CA	GLN	X	50	26.749	61.287	29.070	0.00	0.00
ATOM	772	HA	GLN	X	50	25.880	60.863	29.574	0.00	0.00
ATOM	773	CB	GLN	X	50	26.865	62.802	29.225	0.00	0.00
ATOM	774	HB2	GLN	X	50	25.934	63.312	28.975	0.00	0.00
ATOM	775	HB3	GLN	X	50	27.000	62.990	30.290	0.00	0.00
ATOM	776	CG	GLN	X	50	27.998	63.497	28.392	0.00	0.00
ATOM	777	HG2	GLN	X	50	28.938	62.945	28.376	0.00	0.00
ATOM	778	HG3	GLN	X	50	27.806	63.616	27.325	0.00	0.00
ATOM	779	CD	GLN	X	50	28.149	64.891	28.957	0.00	0.00
ATOM	780	OE1	GLN	X	50	27.273	65.690	29.003	0.00	0.00
ATOM	781	NE2	GLN	X	50	29.312	65.154	29.520	0.00	0.00
ATOM	782	HE21	GLN	X	50	29.381	65.944	30.145	0.00	0.00
ATOM	783	HE22	GLN	X	50	30.059	64.476	29.546	0.00	0.00
ATOM	784	C	GLN	X	50	26.586	60.938	27.563	0.00	0.00
ATOM	785	O	GLN	X	50	27.626	60.856	26.859	0.00	0.00
ATOM	786	N	PRO	X	51	25.329	60.888	27.041	0.00	0.00
ATOM	787	CD	PRO	X	51	24.134	61.193	27.813	0.00	0.00
ATOM	788	HD2	PRO	X	51	24.122	62.276	27.933	0.00	0.00
ATOM	789	HD3	PRO	X	51	24.054	60.678	28.771	0.00	0.00
ATOM	790	CG	PRO	X	51	22.945	60.710	26.923	0.00	0.00
ATOM	791	HG2	PRO	X	51	22.020	61.287	26.904	0.00	0.00
ATOM	792	HG3	PRO	X	51	22.665	59.756	27.369	0.00	0.00
ATOM	793	CB	PRO	X	51	23.479	60.502	25.516	0.00	0.00
ATOM	794	HB2	PRO	X	51	23.103	61.245	24.813	0.00	0.00
ATOM	795	HB3	PRO	X	51	23.074	59.532	25.227	0.00	0.00
ATOM	796	CA	PRO	X	51	25.026	60.492	25.647	0.00	0.00
ATOM	797	HA	PRO	X	51	25.340	59.470	25.437	0.00	0.00
ATOM	798	C	PRO	X	51	25.534	61.511	24.584	0.00	0.00
ATOM	799	O	PRO	X	51	26.038	62.578	25.032	0.00	0.00
ATOM	800	N	TRP	X	52	25.503	61.153	23.252	0.00	0.00
ATOM	801	H	TRP	X	52	25.149	60.254	22.956	0.00	0.00
ATOM	802	CA	TRP	X	52	26.255	61.792	22.164	0.00	0.00

ATOM	803	HA	TRP	X	52	26.376	62.864	22.318	0.00	0.00
ATOM	804	CB	TRP	X	52	27.612	61.142	21.938	0.00	0.00
ATOM	805	HB2	TRP	X	52	28.258	61.688	21.250	0.00	0.00
ATOM	806	HB3	TRP	X	52	28.154	61.172	22.884	0.00	0.00
ATOM	807	CG	TRP	X	52	27.523	59.727	21.531	0.00	0.00
ATOM	808	CD1	TRP	X	52	27.624	59.256	20.254	0.00	0.00
ATOM	809	HD1	TRP	X	52	27.775	59.879	19.384	0.00	0.00
ATOM	810	NE1	TRP	X	52	27.679	57.888	20.231	0.00	0.00
ATOM	811	HE1	TRP	X	52	27.904	57.320	19.427	0.00	0.00
ATOM	812	CE2	TRP	X	52	27.631	57.398	21.536	0.00	0.00
ATOM	813	CZ2	TRP	X	52	27.519	56.088	22.122	0.00	0.00
ATOM	814	HZ2	TRP	X	52	27.581	55.253	21.440	0.00	0.00
ATOM	815	CH2	TRP	X	52	27.422	55.927	23.469	0.00	0.00
ATOM	816	HH2	TRP	X	52	27.398	54.931	23.886	0.00	0.00
ATOM	817	CZ3	TRP	X	52	27.363	57.041	24.321	0.00	0.00
ATOM	818	HZ3	TRP	X	52	27.251	56.938	25.390	0.00	0.00
ATOM	819	CE3	TRP	X	52	27.348	58.306	23.769	0.00	0.00
ATOM	820	HE3	TRP	X	52	27.331	59.124	24.475	0.00	0.00
ATOM	821	CD2	TRP	X	52	27.516	58.506	22.380	0.00	0.00
ATOM	822	C	TRP	X	52	25.512	61.772	20.772	0.00	0.00
ATOM	823	O	TRP	X	52	24.880	60.809	20.398	0.00	0.00
ATOM	824	N	SER	X	53	25.768	62.794	19.971	0.00	0.00
ATOM	825	H	SER	X	53	26.528	63.395	20.255	0.00	0.00
ATOM	826	CA	SER	X	53	25.343	62.877	18.583	0.00	0.00
ATOM	827	HA	SER	X	53	24.338	62.458	18.525	0.00	0.00
ATOM	828	CB	SER	X	53	25.125	64.350	18.170	0.00	0.00
ATOM	829	HB2	SER	X	53	25.931	65.045	18.405	0.00	0.00
ATOM	830	HB3	SER	X	53	24.927	64.194	17.110	0.00	0.00
ATOM	831	OG	SER	X	53	23.970	64.972	18.648	0.00	0.00
ATOM	832	HG	SER	X	53	23.816	65.777	18.148	0.00	0.00
ATOM	833	C	SER	X	53	26.436	62.304	17.644	0.00	0.00
ATOM	834	O	SER	X	53	27.612	62.515	17.847	0.00	0.00
ATOM	835	N	GLY	X	54	26.031	61.570	16.600	0.00	0.00
ATOM	836	H	GLY	X	54	25.046	61.355	16.532	0.00	0.00
ATOM	837	CA	GLY	X	54	27.031	60.924	15.604	0.00	0.00
ATOM	838	HA2	GLY	X	54	26.553	60.803	14.632	0.00	0.00
ATOM	839	HA3	GLY	X	54	27.928	61.529	15.471	0.00	0.00
ATOM	840	C	GLY	X	54	27.435	59.516	16.068	0.00	0.00
ATOM	841	O	GLY	X	54	27.004	59.114	17.175	0.00	0.00
ATOM	842	N	VAL	X	55	28.269	58.846	15.260	0.00	0.00
ATOM	843	H	VAL	X	55	28.311	59.323	14.370	0.00	0.00
ATOM	844	CA	VAL	X	55	28.950	57.595	15.489	0.00	0.00
ATOM	845	HA	VAL	X	55	28.440	57.057	16.287	0.00	0.00
ATOM	846	CB	VAL	X	55	28.878	56.724	14.203	0.00	0.00
ATOM	847	HB	VAL	X	55	29.503	57.232	13.469	0.00	0.00
ATOM	848	CG1	VAL	X	55	29.368	55.318	14.511	0.00	0.00
ATOM	849	HG11	VAL	X	55	30.458	55.296	14.523	0.00	0.00
ATOM	850	HG12	VAL	X	55	28.794	54.832	15.300	0.00	0.00
ATOM	851	HG13	VAL	X	55	29.164	54.654	13.671	0.00	0.00
ATOM	852	CG2	VAL	X	55	27.356	56.640	13.804	0.00	0.00
ATOM	853	HG21	VAL	X	55	27.059	57.619	13.427	0.00	0.00
ATOM	854	HG22	VAL	X	55	26.705	56.354	14.631	0.00	0.00
ATOM	855	HG23	VAL	X	55	27.215	56.008	12.928	0.00	0.00
ATOM	856	C	VAL	X	55	30.367	57.693	15.972	0.00	0.00
ATOM	857	O	VAL	X	55	31.194	58.210	15.249	0.00	0.00
ATOM	858	N	VAL	X	56	30.676	57.172	17.215	0.00	0.00
ATOM	859	H	VAL	X	56	29.891	56.772	17.709	0.00	0.00
ATOM	860	CA	VAL	X	56	32.054	57.081	17.836	0.00	0.00
ATOM	861	HA	VAL	X	56	32.522	58.028	17.566	0.00	0.00
ATOM	862	CB	VAL	X	56	31.835	57.007	19.349	0.00	0.00
ATOM	863	HB	VAL	X	56	31.079	56.240	19.522	0.00	0.00
ATOM	864	CG1	VAL	X	56	33.132	56.637	20.193	0.00	0.00
ATOM	865	HG11	VAL	X	56	33.917	57.385	20.086	0.00	0.00
ATOM	866	HG12	VAL	X	56	32.967	56.463	21.257	0.00	0.00
ATOM	867	HG13	VAL	X	56	33.525	55.701	19.796	0.00	0.00
ATOM	868	CG2	VAL	X	56	31.196	58.342	19.938	0.00	0.00
ATOM	869	HG21	VAL	X	56	30.906	58.240	20.983	0.00	0.00

ATOM	870	HG22	VAL	X	56	30.270	58.636	19.444	0.00	0.00
ATOM	871	HG23	VAL	X	56	31.887	59.166	19.761	0.00	0.00
ATOM	872	C	VAL	X	56	32.948	55.988	17.381	0.00	0.00
ATOM	873	O	VAL	X	56	32.656	54.819	17.611	0.00	0.00
ATOM	874	N	ASP	X	57	34.207	56.305	16.955	0.00	0.00
ATOM	875	H	ASP	X	57	34.391	57.270	16.719	0.00	0.00
ATOM	876	CA	ASP	X	57	35.352	55.381	16.797	0.00	0.00
ATOM	877	HA	ASP	X	57	34.924	54.655	16.105	0.00	0.00
ATOM	878	CB	ASP	X	57	36.569	56.060	16.202	0.00	0.00
ATOM	879	HB2	ASP	X	57	36.249	56.691	15.372	0.00	0.00
ATOM	880	HB3	ASP	X	57	36.961	56.693	16.998	0.00	0.00
ATOM	881	CG	ASP	X	57	37.720	55.090	15.789	0.00	0.00
ATOM	882	OD1	ASP	X	57	37.804	54.844	14.620	0.00	0.00
ATOM	883	OD2	ASP	X	57	38.491	54.605	16.653	0.00	0.00
ATOM	884	C	ASP	X	57	35.752	54.686	18.066	0.00	0.00
ATOM	885	O	ASP	X	57	36.185	55.311	18.993	0.00	0.00
ATOM	886	N	ALA	X	58	35.487	53.401	18.171	0.00	0.00
ATOM	887	H	ALA	X	58	35.034	52.982	17.372	0.00	0.00
ATOM	888	CA	ALA	X	58	35.753	52.498	19.319	0.00	0.00
ATOM	889	HA	ALA	X	58	36.414	53.030	20.003	0.00	0.00
ATOM	890	CB	ALA	X	58	34.464	52.101	20.066	0.00	0.00
ATOM	891	HB1	ALA	X	58	33.824	51.541	19.384	0.00	0.00
ATOM	892	HB2	ALA	X	58	33.962	52.933	20.559	0.00	0.00
ATOM	893	HB3	ALA	X	58	34.696	51.388	20.857	0.00	0.00
ATOM	894	C	ALA	X	58	36.629	51.317	18.854	0.00	0.00
ATOM	895	O	ALA	X	58	36.169	50.184	19.024	0.00	0.00
ATOM	896	N	THR	X	59	37.822	51.671	18.302	0.00	0.00
ATOM	897	H	THR	X	59	38.120	52.636	18.311	0.00	0.00
ATOM	898	CA	THR	X	59	38.678	50.631	17.590	0.00	0.00
ATOM	899	HA	THR	X	59	38.221	49.642	17.617	0.00	0.00
ATOM	900	CB	THR	X	59	38.900	51.011	16.147	0.00	0.00
ATOM	901	HB	THR	X	59	39.411	50.216	15.604	0.00	0.00
ATOM	902	CG2	THR	X	59	37.618	51.392	15.329	0.00	0.00
ATOM	903	HG21	THR	X	59	38.005	51.839	14.413	0.00	0.00
ATOM	904	HG22	THR	X	59	36.973	52.125	15.813	0.00	0.00
ATOM	905	HG23	THR	X	59	37.014	50.520	15.080	0.00	0.00
ATOM	906	OG1	THR	X	59	39.824	52.064	16.076	0.00	0.00
ATOM	907	HG1	THR	X	59	39.346	52.832	16.398	0.00	0.00
ATOM	908	C	THR	X	59	40.061	50.369	18.185	0.00	0.00
ATOM	909	O	THR	X	59	40.750	49.452	17.687	0.00	0.00
ATOM	910	N	THR	X	60	40.471	51.083	19.206	0.00	0.00
ATOM	911	H	THR	X	60	39.806	51.575	19.785	0.00	0.00
ATOM	912	CA	THR	X	60	41.786	50.975	19.770	0.00	0.00
ATOM	913	HA	THR	X	60	42.056	49.920	19.757	0.00	0.00
ATOM	914	CB	THR	X	60	42.729	51.785	18.856	0.00	0.00
ATOM	915	HB	THR	X	60	42.497	51.446	17.847	0.00	0.00
ATOM	916	CG2	THR	X	60	42.697	53.358	18.978	0.00	0.00
ATOM	917	HG21	THR	X	60	41.669	53.705	18.876	0.00	0.00
ATOM	918	HG22	THR	X	60	43.248	53.690	18.099	0.00	0.00
ATOM	919	HG23	THR	X	60	43.098	53.719	19.926	0.00	0.00
ATOM	920	OG1	THR	X	60	44.007	51.223	19.174	0.00	0.00
ATOM	921	HG1	THR	X	60	44.689	51.417	18.526	0.00	0.00
ATOM	922	C	THR	X	60	41.797	51.444	21.247	0.00	0.00
ATOM	923	O	THR	X	60	40.864	52.125	21.700	0.00	0.00
ATOM	924	N	PHE	X	61	42.715	50.911	22.108	0.00	0.00
ATOM	925	H	PHE	X	61	43.345	50.224	21.719	0.00	0.00
ATOM	926	CA	PHE	X	61	43.002	51.495	23.415	0.00	0.00
ATOM	927	HA	PHE	X	61	42.224	51.337	24.162	0.00	0.00
ATOM	928	CB	PHE	X	61	44.321	50.949	23.920	0.00	0.00
ATOM	929	HB2	PHE	X	61	45.071	51.196	23.168	0.00	0.00
ATOM	930	HB3	PHE	X	61	44.590	51.488	24.828	0.00	0.00
ATOM	931	CG	PHE	X	61	44.337	49.463	24.352	0.00	0.00
ATOM	932	CD1	PHE	X	61	43.721	48.985	25.535	0.00	0.00
ATOM	933	HD1	PHE	X	61	43.156	49.587	26.231	0.00	0.00
ATOM	934	CE1	PHE	X	61	43.837	47.653	25.924	0.00	0.00
ATOM	935	HE1	PHE	X	61	43.391	47.363	26.864	0.00	0.00
ATOM	936	CZ	PHE	X	61	44.421	46.686	25.067	0.00	0.00

ATOM	937	HZ	PHE	X	61	44.534	45.641	25.312	0.00	0.00
ATOM	938	CE2	PHE	X	61	45.094	47.199	23.967	0.00	0.00
ATOM	939	HE2	PHE	X	61	45.716	46.536	23.383	0.00	0.00
ATOM	940	CD2	PHE	X	61	45.017	48.536	23.579	0.00	0.00
ATOM	941	HD2	PHE	X	61	45.463	48.796	22.630	0.00	0.00
ATOM	942	C	PHE	X	61	43.135	53.034	23.257	0.00	0.00
ATOM	943	O	PHE	X	61	43.878	53.541	22.359	0.00	0.00
ATOM	944	N	GLN	X	62	42.520	53.815	24.156	0.00	0.00
ATOM	945	H	GLN	X	62	42.016	53.375	24.912	0.00	0.00
ATOM	946	CA	GLN	X	62	42.671	55.269	24.125	0.00	0.00
ATOM	947	HA	GLN	X	62	42.882	55.602	23.109	0.00	0.00
ATOM	948	CB	GLN	X	62	41.427	56.023	24.580	0.00	0.00
ATOM	949	HB2	GLN	X	62	41.270	55.809	25.638	0.00	0.00
ATOM	950	HB3	GLN	X	62	41.446	57.109	24.497	0.00	0.00
ATOM	951	CG	GLN	X	62	40.199	55.465	23.869	0.00	0.00
ATOM	952	HG2	GLN	X	62	40.499	54.909	22.981	0.00	0.00
ATOM	953	HG3	GLN	X	62	39.557	54.886	24.533	0.00	0.00
ATOM	954	CD	GLN	X	62	39.220	56.515	23.438	0.00	0.00
ATOM	955	OE1	GLN	X	62	39.608	57.540	22.960	0.00	0.00
ATOM	956	NE2	GLN	X	62	37.986	56.243	23.585	0.00	0.00
ATOM	957	HE21	GLN	X	62	37.314	56.935	23.286	0.00	0.00
ATOM	958	HE22	GLN	X	62	37.675	55.387	24.022	0.00	0.00
ATOM	959	C	GLN	X	62	43.842	55.779	24.998	0.00	0.00
ATOM	960	O	GLN	X	62	44.680	56.547	24.556	0.00	0.00
ATOM	961	N	SER	X	63	43.935	55.280	26.282	0.00	0.00
ATOM	962	H	SER	X	63	43.274	54.574	26.573	0.00	0.00
ATOM	963	CA	SER	X	63	44.657	56.008	27.393	0.00	0.00
ATOM	964	HA	SER	X	63	45.706	56.099	27.114	0.00	0.00
ATOM	965	CB	SER	X	63	44.132	57.466	27.698	0.00	0.00
ATOM	966	HB2	SER	X	63	44.901	58.202	27.461	0.00	0.00
ATOM	967	HB3	SER	X	63	43.284	57.512	27.015	0.00	0.00
ATOM	968	OG	SER	X	63	43.625	57.704	28.991	0.00	0.00
ATOM	969	HG	SER	X	63	43.092	58.501	28.937	0.00	0.00
ATOM	970	C	SER	X	63	44.705	55.151	28.630	0.00	0.00
ATOM	971	O	SER	X	63	43.883	54.258	28.789	0.00	0.00
ATOM	972	N	VAL	X	64	45.704	55.315	29.544	0.00	0.00
ATOM	973	H	VAL	X	64	46.388	56.029	29.336	0.00	0.00
ATOM	974	CA	VAL	X	64	45.958	54.506	30.760	0.00	0.00
ATOM	975	HA	VAL	X	64	45.157	53.782	30.913	0.00	0.00
ATOM	976	CB	VAL	X	64	47.264	53.747	30.632	0.00	0.00
ATOM	977	HB	VAL	X	64	47.991	54.416	30.171	0.00	0.00
ATOM	978	CG1	VAL	X	64	47.781	53.057	31.921	0.00	0.00
ATOM	979	HG11	VAL	X	64	48.544	52.328	31.649	0.00	0.00
ATOM	980	HG12	VAL	X	64	48.208	53.797	32.599	0.00	0.00
ATOM	981	HG13	VAL	X	64	46.927	52.548	32.369	0.00	0.00
ATOM	982	CG2	VAL	X	64	46.991	52.675	29.622	0.00	0.00
ATOM	983	HG21	VAL	X	64	46.739	52.975	28.605	0.00	0.00
ATOM	984	HG22	VAL	X	64	46.197	51.963	29.851	0.00	0.00
ATOM	985	HG23	VAL	X	64	47.871	52.039	29.529	0.00	0.00
ATOM	986	C	VAL	X	64	46.031	55.448	31.971	0.00	0.00
ATOM	987	O	VAL	X	64	46.515	56.557	31.767	0.00	0.00
ATOM	988	N	CYX	X	65	45.688	55.030	33.178	0.00	0.00
ATOM	989	H	CYX	X	65	45.189	54.154	33.215	0.00	0.00
ATOM	990	CA	CYX	X	65	45.766	55.994	34.348	0.00	0.00
ATOM	991	HA	CYX	X	65	45.149	56.855	34.090	0.00	0.00
ATOM	992	CB	CYX	X	65	44.970	55.297	35.475	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.572	54.543	35.981	0.00	0.00
ATOM	994	HB3	CYX	X	65	44.785	56.128	36.156	0.00	0.00
ATOM	995	SG	CYX	X	65	43.306	54.683	35.097	0.00	0.00
ATOM	996	C	CYX	X	65	47.193	56.385	34.713	0.00	0.00
ATOM	997	O	CYX	X	65	48.042	55.418	34.742	0.00	0.00
ATOM	998	N	TYR	X	66	47.501	57.676	34.954	0.00	0.00
ATOM	999	H	TYR	X	66	46.830	58.352	34.617	0.00	0.00
ATOM	1000	CA	TYR	X	66	48.744	58.103	35.538	0.00	0.00
ATOM	1001	HA	TYR	X	66	49.548	57.956	34.817	0.00	0.00
ATOM	1002	CB	TYR	X	66	48.777	59.516	36.014	0.00	0.00
ATOM	1003	HB2	TYR	X	66	47.896	59.661	36.638	0.00	0.00

ATOM	1004	HB3	TYR	X	66	49.675	59.609	36.626	0.00	0.00
ATOM	1005	CG	TYR	X	66	48.886	60.566	34.968	0.00	0.00
ATOM	1006	CD1	TYR	X	66	47.820	61.560	34.818	0.00	0.00
ATOM	1007	HD1	TYR	X	66	46.864	61.433	35.303	0.00	0.00
ATOM	1008	CE1	TYR	X	66	47.995	62.673	33.994	0.00	0.00
ATOM	1009	HE1	TYR	X	66	47.236	63.440	33.953	0.00	0.00
ATOM	1010	CZ	TYR	X	66	49.166	62.900	33.340	0.00	0.00
ATOM	1011	OH	TYR	X	66	49.274	64.075	32.581	0.00	0.00
ATOM	1012	HH	TYR	X	66	48.482	64.611	32.670	0.00	0.00
ATOM	1013	CE2	TYR	X	66	50.203	61.909	33.363	0.00	0.00
ATOM	1014	HE2	TYR	X	66	50.997	62.071	32.649	0.00	0.00
ATOM	1015	CD2	TYR	X	66	50.082	60.781	34.216	0.00	0.00
ATOM	1016	HD2	TYR	X	66	50.914	60.093	34.257	0.00	0.00
ATOM	1017	C	TYR	X	66	49.095	57.189	36.733	0.00	0.00
ATOM	1018	O	TYR	X	66	48.212	56.832	37.492	0.00	0.00
ATOM	1019	N	GLN	X	67	50.322	56.651	36.690	0.00	0.00
ATOM	1020	H	GLN	X	67	50.997	56.900	35.981	0.00	0.00
ATOM	1021	CA	GLN	X	67	50.786	55.595	37.576	0.00	0.00
ATOM	1022	HA	GLN	X	67	50.423	55.738	38.594	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.277	54.213	37.112	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.615	53.457	37.821	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.187	54.184	37.115	0.00	0.00
ATOM	1026	CG	GLN	X	67	50.718	53.718	35.746	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.508	54.445	34.962	0.00	0.00
ATOM	1028	HG3	GLN	X	67	51.796	53.556	35.747	0.00	0.00
ATOM	1029	CD	GLN	X	67	50.015	52.418	35.351	0.00	0.00
ATOM	1030	OE1	GLN	X	67	50.457	51.295	35.554	0.00	0.00
ATOM	1031	NE2	GLN	X	67	48.750	52.507	35.001	0.00	0.00
ATOM	1032	HE21	GLN	X	67	48.225	51.649	34.912	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.302	53.388	34.794	0.00	0.00
ATOM	1034	C	GLN	X	67	52.310	55.600	37.617	0.00	0.00
ATOM	1035	O	GLN	X	67	52.966	56.192	36.770	0.00	0.00
ATOM	1036	N	TYR	X	68	52.837	54.945	38.648	0.00	0.00
ATOM	1037	H	TYR	X	68	52.245	54.618	39.397	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.284	54.725	38.767	0.00	0.00
ATOM	1039	HA	TYR	X	68	54.818	55.675	38.781	0.00	0.00
ATOM	1040	CB	TYR	X	68	54.662	54.121	40.097	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.449	54.888	40.842	0.00	0.00
ATOM	1042	HB3	TYR	X	68	53.977	53.312	40.349	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.106	53.661	40.102	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.150	54.618	40.215	0.00	0.00
ATOM	1045	HD1	TYR	X	68	56.917	55.642	40.469	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.478	54.220	39.974	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.273	54.931	40.145	0.00	0.00
ATOM	1048	CZ	TYR	X	68	58.824	52.831	39.739	0.00	0.00
ATOM	1049	OH	TYR	X	68	60.061	52.324	39.603	0.00	0.00
ATOM	1050	HH	TYR	X	68	60.767	52.975	39.591	0.00	0.00
ATOM	1051	CE2	TYR	X	68	57.751	51.877	39.871	0.00	0.00
ATOM	1052	HE2	TYR	X	68	58.009	50.841	39.708	0.00	0.00
ATOM	1053	CD2	TYR	X	68	56.452	52.270	39.979	0.00	0.00
ATOM	1054	HD2	TYR	X	68	55.737	51.461	39.955	0.00	0.00
ATOM	1055	C	TYR	X	68	54.703	53.869	37.536	0.00	0.00
ATOM	1056	O	TYR	X	68	53.984	52.933	37.215	0.00	0.00
ATOM	1057	N	VAL	X	69	55.788	54.176	36.926	0.00	0.00
ATOM	1058	H	VAL	X	69	56.287	54.978	37.284	0.00	0.00
ATOM	1059	CA	VAL	X	69	56.328	53.346	35.880	0.00	0.00
ATOM	1060	HA	VAL	X	69	55.797	52.406	35.732	0.00	0.00
ATOM	1061	CB	VAL	X	69	56.281	54.043	34.475	0.00	0.00
ATOM	1062	HB	VAL	X	69	56.828	53.409	33.776	0.00	0.00
ATOM	1063	CG1	VAL	X	69	54.788	54.231	34.075	0.00	0.00
ATOM	1064	HG11	VAL	X	69	54.326	53.245	34.135	0.00	0.00
ATOM	1065	HG12	VAL	X	69	54.240	54.959	34.672	0.00	0.00
ATOM	1066	HG13	VAL	X	69	54.665	54.637	33.071	0.00	0.00
ATOM	1067	CG2	VAL	X	69	56.983	55.358	34.400	0.00	0.00
ATOM	1068	HG21	VAL	X	69	58.008	55.266	34.759	0.00	0.00
ATOM	1069	HG22	VAL	X	69	56.413	56.090	34.972	0.00	0.00
ATOM	1070	HG23	VAL	X	69	57.021	55.805	33.406	0.00	0.00

ATOM	1071	C	VAL	X	69	57.768	53.013	36.254	0.00	0.00
ATOM	1072	O	VAL	X	69	58.566	53.896	36.635	0.00	0.00
ATOM	1073	N	ASP	X	70	58.187	51.785	35.988	0.00	0.00
ATOM	1074	H	ASP	X	70	57.596	51.224	35.391	0.00	0.00
ATOM	1075	CA	ASP	X	70	59.361	51.112	36.592	0.00	0.00
ATOM	1076	HA	ASP	X	70	59.245	51.262	37.665	0.00	0.00
ATOM	1077	CB	ASP	X	70	59.195	49.603	36.389	0.00	0.00
ATOM	1078	HB2	ASP	X	70	58.499	49.254	37.152	0.00	0.00
ATOM	1079	HB3	ASP	X	70	58.786	49.471	35.387	0.00	0.00
ATOM	1080	CG	ASP	X	70	60.487	48.814	36.439	0.00	0.00
ATOM	1081	OD1	ASP	X	70	61.002	48.650	37.521	0.00	0.00
ATOM	1082	OD2	ASP	X	70	61.137	48.550	35.393	0.00	0.00
ATOM	1083	C	ASP	X	70	60.766	51.719	36.189	0.00	0.00
ATOM	1084	O	ASP	X	70	61.087	52.153	35.104	0.00	0.00
ATOM	1085	N	THR	X	71	61.610	51.784	37.195	0.00	0.00
ATOM	1086	H	THR	X	71	61.322	51.472	38.112	0.00	0.00
ATOM	1087	CA	THR	X	71	63.067	52.172	37.133	0.00	0.00
ATOM	1088	HA	THR	X	71	63.281	52.284	36.070	0.00	0.00
ATOM	1089	CB	THR	X	71	63.334	53.526	37.873	0.00	0.00
ATOM	1090	HB	THR	X	71	64.378	53.831	37.943	0.00	0.00
ATOM	1091	CG2	THR	X	71	62.584	54.540	37.046	0.00	0.00
ATOM	1092	HG21	THR	X	71	63.043	54.524	36.057	0.00	0.00
ATOM	1093	HG22	THR	X	71	62.745	55.528	37.477	0.00	0.00
ATOM	1094	HG23	THR	X	71	61.508	54.369	37.090	0.00	0.00
ATOM	1095	OG1	THR	X	71	62.705	53.436	39.145	0.00	0.00
ATOM	1096	HG1	THR	X	71	63.107	54.084	39.728	0.00	0.00
ATOM	1097	C	THR	X	71	64.070	51.235	37.714	0.00	0.00
ATOM	1098	O	THR	X	71	65.275	51.401	37.523	0.00	0.00
ATOM	1099	N	LEU	X	72	63.551	50.163	38.192	0.00	0.00
ATOM	1100	H	LEU	X	72	62.563	49.985	38.302	0.00	0.00
ATOM	1101	CA	LEU	X	72	64.330	49.097	38.899	0.00	0.00
ATOM	1102	HA	LEU	X	72	65.166	49.584	39.401	0.00	0.00
ATOM	1103	CB	LEU	X	72	63.423	48.438	40.065	0.00	0.00
ATOM	1104	HB2	LEU	X	72	63.020	49.138	40.797	0.00	0.00
ATOM	1105	HB3	LEU	X	72	62.555	47.923	39.656	0.00	0.00
ATOM	1106	CG	LEU	X	72	64.225	47.437	40.975	0.00	0.00
ATOM	1107	HG	LEU	X	72	64.685	46.678	40.343	0.00	0.00
ATOM	1108	CD1	LEU	X	72	65.293	47.959	41.823	0.00	0.00
ATOM	1109	HD11	LEU	X	72	64.818	48.525	42.624	0.00	0.00
ATOM	1110	HD12	LEU	X	72	65.948	48.600	41.233	0.00	0.00
ATOM	1111	HD13	LEU	X	72	65.809	47.117	42.284	0.00	0.00
ATOM	1112	CD2	LEU	X	72	63.147	46.765	41.895	0.00	0.00
ATOM	1113	HD21	LEU	X	72	62.346	46.346	41.287	0.00	0.00
ATOM	1114	HD22	LEU	X	72	63.684	45.945	42.372	0.00	0.00
ATOM	1115	HD23	LEU	X	72	62.711	47.390	42.674	0.00	0.00
ATOM	1116	C	LEU	X	72	64.811	47.927	38.044	0.00	0.00
ATOM	1117	O	LEU	X	72	65.922	47.441	38.149	0.00	0.00
ATOM	1118	N	TYR	X	73	64.025	47.651	37.011	0.00	0.00
ATOM	1119	H	TYR	X	73	63.103	48.046	36.892	0.00	0.00
ATOM	1120	CA	TYR	X	73	64.369	46.740	35.868	0.00	0.00
ATOM	1121	HA	TYR	X	73	65.456	46.674	35.816	0.00	0.00
ATOM	1122	CB	TYR	X	73	63.974	45.290	36.320	0.00	0.00
ATOM	1123	HB2	TYR	X	73	62.907	45.118	36.179	0.00	0.00
ATOM	1124	HB3	TYR	X	73	64.444	44.577	35.643	0.00	0.00
ATOM	1125	CG	TYR	X	73	64.487	44.775	37.602	0.00	0.00
ATOM	1126	CD1	TYR	X	73	65.906	44.572	37.735	0.00	0.00
ATOM	1127	HD1	TYR	X	73	66.508	44.943	36.918	0.00	0.00
ATOM	1128	CE1	TYR	X	73	66.514	44.136	38.912	0.00	0.00
ATOM	1129	HE1	TYR	X	73	67.578	44.181	39.090	0.00	0.00
ATOM	1130	CZ	TYR	X	73	65.628	43.954	40.053	0.00	0.00
ATOM	1131	OH	TYR	X	73	66.208	43.524	41.229	0.00	0.00
ATOM	1132	HH	TYR	X	73	65.500	43.334	41.849	0.00	0.00
ATOM	1133	CE2	TYR	X	73	64.237	44.030	39.894	0.00	0.00
ATOM	1134	HE2	TYR	X	73	63.658	43.827	40.783	0.00	0.00
ATOM	1135	CD2	TYR	X	73	63.628	44.411	38.707	0.00	0.00
ATOM	1136	HD2	TYR	X	73	62.561	44.512	38.576	0.00	0.00
ATOM	1137	C	TYR	X	73	63.762	47.133	34.495	0.00	0.00

ATOM	1138	O	TYR	X	73	63.005	46.355	33.862	0.00	0.00
ATOM	1139	N	PRO	X	74	64.041	48.360	33.956	0.00	0.00
ATOM	1140	CD	PRO	X	74	64.813	49.388	34.597	0.00	0.00
ATOM	1141	HD2	PRO	X	74	65.877	49.275	34.392	0.00	0.00
ATOM	1142	HD3	PRO	X	74	64.654	49.437	35.675	0.00	0.00
ATOM	1143	CG	PRO	X	74	64.361	50.683	33.862	0.00	0.00
ATOM	1144	HG2	PRO	X	74	65.130	51.452	33.942	0.00	0.00
ATOM	1145	HG3	PRO	X	74	63.435	51.049	34.305	0.00	0.00
ATOM	1146	CB	PRO	X	74	64.177	50.269	32.452	0.00	0.00
ATOM	1147	HB2	PRO	X	74	65.170	50.241	32.005	0.00	0.00
ATOM	1148	HB3	PRO	X	74	63.407	50.749	31.847	0.00	0.00
ATOM	1149	CA	PRO	X	74	63.678	48.829	32.630	0.00	0.00
ATOM	1150	HA	PRO	X	74	62.594	48.762	32.539	0.00	0.00
ATOM	1151	C	PRO	X	74	64.302	47.918	31.621	0.00	0.00
ATOM	1152	O	PRO	X	74	65.458	47.508	31.726	0.00	0.00
ATOM	1153	N	GLY	X	75	63.501	47.639	30.600	0.00	0.00
ATOM	1154	H	GLY	X	75	62.648	48.161	30.458	0.00	0.00
ATOM	1155	CA	GLY	X	75	63.840	46.689	29.485	0.00	0.00
ATOM	1156	HA2	GLY	X	75	63.199	46.810	28.611	0.00	0.00
ATOM	1157	HA3	GLY	X	75	64.847	46.835	29.095	0.00	0.00
ATOM	1158	C	GLY	X	75	63.875	45.180	29.834	0.00	0.00
ATOM	1159	O	GLY	X	75	64.048	44.393	28.909	0.00	0.00
ATOM	1160	N	PHE	X	76	63.732	44.737	31.151	0.00	0.00
ATOM	1161	H	PHE	X	76	63.367	45.369	31.850	0.00	0.00
ATOM	1162	CA	PHE	X	76	63.953	43.345	31.508	0.00	0.00
ATOM	1163	HA	PHE	X	76	64.998	43.168	31.255	0.00	0.00
ATOM	1164	CB	PHE	X	76	63.921	43.166	33.096	0.00	0.00
ATOM	1165	HB2	PHE	X	76	64.589	43.891	33.562	0.00	0.00
ATOM	1166	HB3	PHE	X	76	62.965	43.617	33.360	0.00	0.00
ATOM	1167	CG	PHE	X	76	64.095	41.807	33.768	0.00	0.00
ATOM	1168	CD1	PHE	X	76	64.885	40.830	33.113	0.00	0.00
ATOM	1169	HD1	PHE	X	76	65.379	41.098	32.191	0.00	0.00
ATOM	1170	CE1	PHE	X	76	64.920	39.485	33.627	0.00	0.00
ATOM	1171	HE1	PHE	X	76	65.391	38.706	33.046	0.00	0.00
ATOM	1172	CZ	PHE	X	76	64.227	39.216	34.824	0.00	0.00
ATOM	1173	HZ	PHE	X	76	64.249	38.199	35.189	0.00	0.00
ATOM	1174	CE2	PHE	X	76	63.539	40.219	35.500	0.00	0.00
ATOM	1175	HE2	PHE	X	76	62.896	39.922	36.315	0.00	0.00
ATOM	1176	CD2	PHE	X	76	63.500	41.507	35.017	0.00	0.00
ATOM	1177	HD2	PHE	X	76	62.866	42.214	35.530	0.00	0.00
ATOM	1178	C	PHE	X	76	62.901	42.416	30.892	0.00	0.00
ATOM	1179	O	PHE	X	76	61.716	42.599	31.074	0.00	0.00
ATOM	1180	N	GLU	X	77	63.408	41.382	30.261	0.00	0.00
ATOM	1181	H	GLU	X	77	64.402	41.352	30.080	0.00	0.00
ATOM	1182	CA	GLU	X	77	62.674	40.429	29.487	0.00	0.00
ATOM	1183	HA	GLU	X	77	62.271	40.959	28.624	0.00	0.00
ATOM	1184	CB	GLU	X	77	63.538	39.283	28.913	0.00	0.00
ATOM	1185	HB2	GLU	X	77	64.180	38.950	29.729	0.00	0.00
ATOM	1186	HB3	GLU	X	77	62.910	38.442	28.619	0.00	0.00
ATOM	1187	CG	GLU	X	77	64.468	39.846	27.765	0.00	0.00
ATOM	1188	HG2	GLU	X	77	65.151	39.053	27.459	0.00	0.00
ATOM	1189	HG3	GLU	X	77	63.859	39.956	26.868	0.00	0.00
ATOM	1190	CD	GLU	X	77	65.281	41.066	28.103	0.00	0.00
ATOM	1191	OE1	GLU	X	77	65.037	42.095	27.400	0.00	0.00
ATOM	1192	OE2	GLU	X	77	65.997	41.097	29.140	0.00	0.00
ATOM	1193	C	GLU	X	77	61.479	39.736	30.218	0.00	0.00
ATOM	1194	O	GLU	X	77	60.447	39.543	29.616	0.00	0.00
ATOM	1195	N	GLY	X	78	61.692	39.610	31.548	0.00	0.00
ATOM	1196	H	GLY	X	78	62.545	39.999	31.925	0.00	0.00
ATOM	1197	CA	GLY	X	78	60.666	39.022	32.487	0.00	0.00
ATOM	1198	HA2	GLY	X	78	60.264	38.161	31.952	0.00	0.00
ATOM	1199	HA3	GLY	X	78	61.241	38.756	33.373	0.00	0.00
ATOM	1200	C	GLY	X	78	59.539	39.933	32.918	0.00	0.00
ATOM	1201	O	GLY	X	78	58.511	39.412	33.331	0.00	0.00
ATOM	1202	N	THR	X	79	59.752	41.258	32.738	0.00	0.00
ATOM	1203	H	THR	X	79	60.612	41.603	32.336	0.00	0.00
ATOM	1204	CA	THR	X	79	58.756	42.356	33.175	0.00	0.00

ATOM	1205	HA	THR	X	79	57.773	41.942	33.400	0.00	0.00
ATOM	1206	CB	THR	X	79	59.207	43.120	34.401	0.00	0.00
ATOM	1207	HB	THR	X	79	58.352	43.748	34.652	0.00	0.00
ATOM	1208	CG2	THR	X	79	59.537	42.206	35.605	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.518	41.740	35.508	0.00	0.00
ATOM	1210	HG22	THR	X	79	58.731	41.487	35.753	0.00	0.00
ATOM	1211	HG23	THR	X	79	59.718	42.897	36.429	0.00	0.00
ATOM	1212	OG1	THR	X	79	60.345	43.816	33.946	0.00	0.00
ATOM	1213	HG1	THR	X	79	60.292	44.632	34.448	0.00	0.00
ATOM	1214	C	THR	X	79	58.246	43.357	32.084	0.00	0.00
ATOM	1215	O	THR	X	79	57.234	44.030	32.336	0.00	0.00
ATOM	1216	N	GLU	X	80	58.923	43.375	30.916	0.00	0.00
ATOM	1217	H	GLU	X	80	59.806	42.888	30.962	0.00	0.00
ATOM	1218	CA	GLU	X	80	58.623	44.290	29.807	0.00	0.00
ATOM	1219	HA	GLU	X	80	58.917	45.307	30.065	0.00	0.00
ATOM	1220	CB	GLU	X	80	59.558	43.928	28.615	0.00	0.00
ATOM	1221	HB2	GLU	X	80	59.058	44.398	27.768	0.00	0.00
ATOM	1222	HB3	GLU	X	80	60.457	44.527	28.757	0.00	0.00
ATOM	1223	CG	GLU	X	80	59.792	42.449	28.342	0.00	0.00
ATOM	1224	HG2	GLU	X	80	60.636	42.169	28.972	0.00	0.00
ATOM	1225	HG3	GLU	X	80	58.871	41.899	28.538	0.00	0.00
ATOM	1226	CD	GLU	X	80	60.261	42.301	26.828	0.00	0.00
ATOM	1227	OE1	GLU	X	80	61.485	42.212	26.635	0.00	0.00
ATOM	1228	OE2	GLU	X	80	59.412	42.125	25.960	0.00	0.00
ATOM	1229	C	GLU	X	80	57.217	44.294	29.279	0.00	0.00
ATOM	1230	O	GLU	X	80	56.850	45.161	28.535	0.00	0.00
ATOM	1231	N	MET	X	81	56.382	43.316	29.654	0.00	0.00
ATOM	1232	H	MET	X	81	56.702	42.547	30.225	0.00	0.00
ATOM	1233	CA	MET	X	81	54.923	43.204	29.330	0.00	0.00
ATOM	1234	HA	MET	X	81	54.855	43.520	28.289	0.00	0.00
ATOM	1235	CB	MET	X	81	54.496	41.779	29.287	0.00	0.00
ATOM	1236	HB2	MET	X	81	53.480	41.721	28.894	0.00	0.00
ATOM	1237	HB3	MET	X	81	55.107	41.269	28.542	0.00	0.00
ATOM	1238	CG	MET	X	81	54.533	41.010	30.618	0.00	0.00
ATOM	1239	HG2	MET	X	81	53.786	41.434	31.289	0.00	0.00
ATOM	1240	HG3	MET	X	81	54.140	40.019	30.390	0.00	0.00
ATOM	1241	SD	MET	X	81	56.025	40.783	31.464	0.00	0.00
ATOM	1242	CE	MET	X	81	56.858	39.689	30.372	0.00	0.00
ATOM	1243	HE1	MET	X	81	56.195	38.902	30.014	0.00	0.00
ATOM	1244	HE2	MET	X	81	57.204	40.249	29.504	0.00	0.00
ATOM	1245	HE3	MET	X	81	57.660	39.131	30.856	0.00	0.00
ATOM	1246	C	MET	X	81	53.982	44.086	30.203	0.00	0.00
ATOM	1247	O	MET	X	81	52.973	44.668	29.712	0.00	0.00
ATOM	1248	N	TRP	X	82	54.353	44.194	31.459	0.00	0.00
ATOM	1249	H	TRP	X	82	55.289	43.901	31.701	0.00	0.00
ATOM	1250	CA	TRP	X	82	53.765	45.031	32.475	0.00	0.00
ATOM	1251	HA	TRP	X	82	52.698	44.907	32.659	0.00	0.00
ATOM	1252	CB	TRP	X	82	54.303	44.637	33.865	0.00	0.00
ATOM	1253	HB2	TRP	X	82	55.336	44.981	33.927	0.00	0.00
ATOM	1254	HB3	TRP	X	82	53.713	45.171	34.610	0.00	0.00
ATOM	1255	CG	TRP	X	82	54.144	43.145	34.172	0.00	0.00
ATOM	1256	CD1	TRP	X	82	54.996	42.420	34.917	0.00	0.00
ATOM	1257	HD1	TRP	X	82	55.803	42.821	35.512	0.00	0.00
ATOM	1258	NE1	TRP	X	82	54.583	41.070	35.013	0.00	0.00
ATOM	1259	HE1	TRP	X	82	55.088	40.384	35.554	0.00	0.00
ATOM	1260	CE2	TRP	X	82	53.494	40.878	34.190	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	52.781	39.745	33.751	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	53.003	38.813	34.248	0.00	0.00
ATOM	1263	CH2	TRP	X	82	51.660	39.927	32.960	0.00	0.00
ATOM	1264	HH2	TRP	X	82	51.000	39.107	32.718	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	51.294	41.227	32.472	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	50.359	41.384	31.955	0.00	0.00
ATOM	1267	CE3	TRP	X	82	51.945	42.346	32.967	0.00	0.00
ATOM	1268	HE3	TRP	X	82	51.587	43.340	32.742	0.00	0.00
ATOM	1269	CD2	TRP	X	82	53.126	42.179	33.763	0.00	0.00
ATOM	1270	C	TRP	X	82	54.095	46.536	32.325	0.00	0.00
ATOM	1271	O	TRP	X	82	53.765	47.384	33.190	0.00	0.00

ATOM	1272	N	ASN	X	83	54.769	46.996	31.269	0.00	0.00
ATOM	1273	H	ASN	X	83	55.045	46.375	30.522	0.00	0.00
ATOM	1274	CA	ASN	X	83	54.950	48.417	30.882	0.00	0.00
ATOM	1275	HA	ASN	X	83	55.140	48.889	31.846	0.00	0.00
ATOM	1276	CB	ASN	X	83	56.168	48.535	30.071	0.00	0.00
ATOM	1277	HB2	ASN	X	83	57.108	48.432	30.612	0.00	0.00
ATOM	1278	HB3	ASN	X	83	56.227	47.711	29.361	0.00	0.00
ATOM	1279	CG	ASN	X	83	56.241	49.864	29.336	0.00	0.00
ATOM	1280	OD1	ASN	X	83	55.750	50.868	29.858	0.00	0.00
ATOM	1281	ND2	ASN	X	83	56.855	49.906	28.143	0.00	0.00
ATOM	1282	HD21	ASN	X	83	56.969	50.756	27.610	0.00	0.00
ATOM	1283	HD22	ASN	X	83	57.506	49.159	27.948	0.00	0.00
ATOM	1284	C	ASN	X	83	53.683	49.074	30.208	0.00	0.00
ATOM	1285	O	ASN	X	83	53.320	48.687	29.091	0.00	0.00
ATOM	1286	N	PRO	X	84	53.062	50.091	30.719	0.00	0.00
ATOM	1287	CD	PRO	X	84	53.373	50.601	32.067	0.00	0.00
ATOM	1288	HD2	PRO	X	84	54.438	50.781	32.213	0.00	0.00
ATOM	1289	HD3	PRO	X	84	53.165	49.857	32.837	0.00	0.00
ATOM	1290	CG	PRO	X	84	52.480	51.842	32.326	0.00	0.00
ATOM	1291	HG2	PRO	X	84	53.018	52.784	32.223	0.00	0.00
ATOM	1292	HG3	PRO	X	84	51.946	51.758	33.273	0.00	0.00
ATOM	1293	CB	PRO	X	84	51.460	51.718	31.149	0.00	0.00
ATOM	1294	HB2	PRO	X	84	51.306	52.714	30.734	0.00	0.00
ATOM	1295	HB3	PRO	X	84	50.490	51.315	31.442	0.00	0.00
ATOM	1296	CA	PRO	X	84	51.997	50.878	30.088	0.00	0.00
ATOM	1297	HA	PRO	X	84	51.143	50.253	29.829	0.00	0.00
ATOM	1298	C	PRO	X	84	52.621	51.632	28.894	0.00	0.00
ATOM	1299	O	PRO	X	84	53.324	52.672	29.040	0.00	0.00
ATOM	1300	N	ASN	X	85	52.435	51.154	27.688	0.00	0.00
ATOM	1301	H	ASN	X	85	51.956	50.305	27.422	0.00	0.00
ATOM	1302	CA	ASN	X	85	52.940	51.807	26.498	0.00	0.00
ATOM	1303	HA	ASN	X	85	53.736	52.498	26.779	0.00	0.00
ATOM	1304	CB	ASN	X	85	53.716	50.714	25.685	0.00	0.00
ATOM	1305	HB2	ASN	X	85	54.168	51.162	24.800	0.00	0.00
ATOM	1306	HB3	ASN	X	85	54.521	50.255	26.259	0.00	0.00
ATOM	1307	CG	ASN	X	85	52.821	49.565	25.256	0.00	0.00
ATOM	1308	OD1	ASN	X	85	51.640	49.769	24.979	0.00	0.00
ATOM	1309	ND2	ASN	X	85	53.346	48.358	25.111	0.00	0.00
ATOM	1310	HD21	ASN	X	85	52.686	47.598	25.030	0.00	0.00
ATOM	1311	HD22	ASN	X	85	54.326	48.169	25.267	0.00	0.00
ATOM	1312	C	ASN	X	85	51.867	52.628	25.719	0.00	0.00
ATOM	1313	O	ASN	X	85	52.172	53.220	24.668	0.00	0.00
ATOM	1314	N	ARG	X	86	50.621	52.664	26.181	0.00	0.00
ATOM	1315	H	ARG	X	86	50.581	52.464	27.171	0.00	0.00
ATOM	1316	CA	ARG	X	86	49.578	53.690	25.693	0.00	0.00
ATOM	1317	HA	ARG	X	86	49.834	54.018	24.685	0.00	0.00
ATOM	1318	CB	ARG	X	86	48.178	53.056	25.695	0.00	0.00
ATOM	1319	HB2	ARG	X	86	48.007	52.588	26.665	0.00	0.00
ATOM	1320	HB3	ARG	X	86	47.423	53.821	25.512	0.00	0.00
ATOM	1321	CG	ARG	X	86	47.879	51.837	24.790	0.00	0.00
ATOM	1322	HG2	ARG	X	86	48.403	50.922	25.066	0.00	0.00
ATOM	1323	HG3	ARG	X	86	46.836	51.535	24.879	0.00	0.00
ATOM	1324	CD	ARG	X	86	48.232	52.108	23.341	0.00	0.00
ATOM	1325	HD2	ARG	X	86	47.483	52.810	22.975	0.00	0.00
ATOM	1326	HD3	ARG	X	86	49.243	52.506	23.424	0.00	0.00
ATOM	1327	NE	ARG	X	86	48.222	50.948	22.451	0.00	0.00
ATOM	1328	HE	ARG	X	86	48.848	50.190	22.681	0.00	0.00
ATOM	1329	CZ	ARG	X	86	47.455	50.777	21.364	0.00	0.00
ATOM	1330	NH1	ARG	X	86	46.573	51.594	20.833	0.00	0.00
ATOM	1331	HH11	ARG	X	86	46.641	52.540	21.179	0.00	0.00
ATOM	1332	HH12	ARG	X	86	46.041	51.345	20.011	0.00	0.00
ATOM	1333	NH2	ARG	X	86	47.653	49.652	20.705	0.00	0.00
ATOM	1334	HH21	ARG	X	86	48.164	48.851	21.050	0.00	0.00
ATOM	1335	HH22	ARG	X	86	47.009	49.431	19.960	0.00	0.00
ATOM	1336	C	ARG	X	86	49.628	54.970	26.613	0.00	0.00
ATOM	1337	O	ARG	X	86	50.159	54.897	27.701	0.00	0.00
ATOM	1338	N	GLU	X	87	49.125	56.037	26.064	0.00	0.00

ATOM	1339	H	GLU	X	87	48.662	55.960	25.170	0.00	0.00
ATOM	1340	CA	GLU	X	87	49.113	57.387	26.613	0.00	0.00
ATOM	1341	HA	GLU	X	87	50.184	57.565	26.714	0.00	0.00
ATOM	1342	CB	GLU	X	87	48.496	58.447	25.696	0.00	0.00
ATOM	1343	HB2	GLU	X	87	48.962	58.368	24.714	0.00	0.00
ATOM	1344	HB3	GLU	X	87	47.434	58.284	25.514	0.00	0.00
ATOM	1345	CG	GLU	X	87	48.642	59.867	26.157	0.00	0.00
ATOM	1346	HG2	GLU	X	87	48.013	60.461	25.494	0.00	0.00
ATOM	1347	HG3	GLU	X	87	48.295	60.013	27.180	0.00	0.00
ATOM	1348	CD	GLU	X	87	50.073	60.362	25.948	0.00	0.00
ATOM	1349	OE1	GLU	X	87	50.254	61.353	25.194	0.00	0.00
ATOM	1350	OE2	GLU	X	87	51.014	59.853	26.652	0.00	0.00
ATOM	1351	C	GLU	X	87	48.634	57.318	28.093	0.00	0.00
ATOM	1352	O	GLU	X	87	47.452	57.049	28.301	0.00	0.00
ATOM	1353	N	LEU	X	88	49.450	57.697	29.039	0.00	0.00
ATOM	1354	H	LEU	X	88	50.393	57.888	28.731	0.00	0.00
ATOM	1355	CA	LEU	X	88	49.075	57.924	30.458	0.00	0.00
ATOM	1356	HA	LEU	X	88	48.567	57.071	30.909	0.00	0.00
ATOM	1357	CB	LEU	X	88	50.366	58.094	31.221	0.00	0.00
ATOM	1358	HB2	LEU	X	88	50.851	58.862	30.620	0.00	0.00
ATOM	1359	HB3	LEU	X	88	50.162	58.440	32.235	0.00	0.00
ATOM	1360	CG	LEU	X	88	51.141	56.771	31.213	0.00	0.00
ATOM	1361	HG	LEU	X	88	51.083	56.198	30.288	0.00	0.00
ATOM	1362	CD1	LEU	X	88	52.613	57.139	31.356	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.101	57.337	30.401	0.00	0.00
ATOM	1364	HD12	LEU	X	88	52.969	56.310	31.966	0.00	0.00
ATOM	1365	HD13	LEU	X	88	52.700	58.071	31.914	0.00	0.00
ATOM	1366	CD2	LEU	X	88	50.723	55.757	32.231	0.00	0.00
ATOM	1367	HD21	LEU	X	88	51.353	54.876	32.110	0.00	0.00
ATOM	1368	HD22	LEU	X	88	50.840	56.191	33.224	0.00	0.00
ATOM	1369	HD23	LEU	X	88	49.695	55.468	32.013	0.00	0.00
ATOM	1370	C	LEU	X	88	48.292	59.298	30.525	0.00	0.00
ATOM	1371	O	LEU	X	88	48.459	60.216	29.759	0.00	0.00
ATOM	1372	N	SER	X	89	47.426	59.434	31.509	0.00	0.00
ATOM	1373	H	SER	X	89	47.119	58.616	32.016	0.00	0.00
ATOM	1374	CA	SER	X	89	46.383	60.422	31.590	0.00	0.00
ATOM	1375	HA	SER	X	89	46.860	61.397	31.689	0.00	0.00
ATOM	1376	CB	SER	X	89	45.498	60.401	30.326	0.00	0.00
ATOM	1377	HB2	SER	X	89	46.044	60.193	29.405	0.00	0.00
ATOM	1378	HB3	SER	X	89	44.776	59.586	30.389	0.00	0.00
ATOM	1379	OG	SER	X	89	44.759	61.546	30.261	0.00	0.00
ATOM	1380	HG	SER	X	89	44.283	61.600	29.429	0.00	0.00
ATOM	1381	C	SER	X	89	45.419	60.280	32.736	0.00	0.00
ATOM	1382	O	SER	X	89	45.185	59.166	33.248	0.00	0.00
ATOM	1383	N	GLU	X	90	44.636	61.328	33.090	0.00	0.00
ATOM	1384	H	GLU	X	90	44.733	62.251	32.692	0.00	0.00
ATOM	1385	CA	GLU	X	90	43.583	61.294	34.059	0.00	0.00
ATOM	1386	HA	GLU	X	90	43.984	60.681	34.866	0.00	0.00
ATOM	1387	CB	GLU	X	90	43.242	62.654	34.705	0.00	0.00
ATOM	1388	HB2	GLU	X	90	43.117	63.494	34.022	0.00	0.00
ATOM	1389	HB3	GLU	X	90	42.352	62.402	35.282	0.00	0.00
ATOM	1390	CG	GLU	X	90	44.339	62.937	35.766	0.00	0.00
ATOM	1391	HG2	GLU	X	90	44.352	62.186	36.556	0.00	0.00
ATOM	1392	HG3	GLU	X	90	45.311	62.918	35.274	0.00	0.00
ATOM	1393	CD	GLU	X	90	44.108	64.372	36.453	0.00	0.00
ATOM	1394	OE1	GLU	X	90	43.485	64.498	37.521	0.00	0.00
ATOM	1395	OE2	GLU	X	90	44.449	65.369	35.796	0.00	0.00
ATOM	1396	C	GLU	X	90	42.234	60.698	33.548	0.00	0.00
ATOM	1397	O	GLU	X	90	41.496	60.111	34.257	0.00	0.00
ATOM	1398	N	ASP	X	91	41.976	60.811	32.238	0.00	0.00
ATOM	1399	H	ASP	X	91	42.750	61.151	31.685	0.00	0.00
ATOM	1400	CA	ASP	X	91	40.762	60.386	31.511	0.00	0.00
ATOM	1401	HA	ASP	X	91	39.920	60.861	32.014	0.00	0.00
ATOM	1402	CB	ASP	X	91	40.590	61.077	30.139	0.00	0.00
ATOM	1403	HB2	ASP	X	91	39.636	60.831	29.673	0.00	0.00
ATOM	1404	HB3	ASP	X	91	40.644	62.153	30.305	0.00	0.00
ATOM	1405	CG	ASP	X	91	41.711	60.871	29.119	0.00	0.00

ATOM	1406	OD1	ASP	X	91	41.941	59.762	28.589	0.00	0.00
ATOM	1407	OD2	ASP	X	91	42.429	61.910	28.916	0.00	0.00
ATOM	1408	C	ASP	X	91	40.516	58.832	31.421	0.00	0.00
ATOM	1409	O	ASP	X	91	39.765	58.360	30.645	0.00	0.00
ATOM	1410	N	CYX	X	92	41.363	58.046	32.133	0.00	0.00
ATOM	1411	H	CYX	X	92	41.818	58.437	32.944	0.00	0.00
ATOM	1412	CA	CYX	X	92	41.643	56.621	31.791	0.00	0.00
ATOM	1413	HA	CYX	X	92	41.915	56.491	30.744	0.00	0.00
ATOM	1414	CB	CYX	X	92	42.807	56.232	32.573	0.00	0.00
ATOM	1415	HB2	CYX	X	92	43.182	55.256	32.264	0.00	0.00
ATOM	1416	HB3	CYX	X	92	43.672	56.873	32.403	0.00	0.00
ATOM	1417	SG	CYX	X	92	42.393	56.361	34.391	0.00	0.00
ATOM	1418	C	CYX	X	92	40.624	55.486	32.008	0.00	0.00
ATOM	1419	O	CYX	X	92	40.960	54.305	31.837	0.00	0.00
ATOM	1420	N	LEU	X	93	39.392	55.839	32.322	0.00	0.00
ATOM	1421	H	LEU	X	93	39.153	56.800	32.519	0.00	0.00
ATOM	1422	CA	LEU	X	93	38.300	54.865	32.436	0.00	0.00
ATOM	1423	HA	LEU	X	93	38.695	53.923	32.815	0.00	0.00
ATOM	1424	CB	LEU	X	93	37.231	55.439	33.440	0.00	0.00
ATOM	1425	HB2	LEU	X	93	36.716	56.274	32.965	0.00	0.00
ATOM	1426	HB3	LEU	X	93	36.459	54.674	33.519	0.00	0.00
ATOM	1427	CG	LEU	X	93	37.776	55.913	34.794	0.00	0.00
ATOM	1428	HG	LEU	X	93	38.311	56.851	34.643	0.00	0.00
ATOM	1429	CD1	LEU	X	93	36.598	56.217	35.764	0.00	0.00
ATOM	1430	HD11	LEU	X	93	35.947	55.343	35.775	0.00	0.00
ATOM	1431	HD12	LEU	X	93	36.138	57.177	35.533	0.00	0.00
ATOM	1432	HD13	LEU	X	93	36.878	56.233	36.818	0.00	0.00
ATOM	1433	CD2	LEU	X	93	38.683	54.834	35.365	0.00	0.00
ATOM	1434	HD21	LEU	X	93	38.970	55.144	36.370	0.00	0.00
ATOM	1435	HD22	LEU	X	93	38.119	53.901	35.384	0.00	0.00
ATOM	1436	HD23	LEU	X	93	39.615	54.754	34.805	0.00	0.00
ATOM	1437	C	LEU	X	93	37.681	54.494	31.031	0.00	0.00
ATOM	1438	O	LEU	X	93	36.893	55.250	30.486	0.00	0.00
ATOM	1439	N	TYR	X	94	38.027	53.318	30.563	0.00	0.00
ATOM	1440	H	TYR	X	94	38.574	52.648	31.085	0.00	0.00
ATOM	1441	CA	TYR	X	94	37.599	52.745	29.284	0.00	0.00
ATOM	1442	HA	TYR	X	94	36.642	53.144	28.946	0.00	0.00
ATOM	1443	CB	TYR	X	94	38.684	53.068	28.299	0.00	0.00
ATOM	1444	HB2	TYR	X	94	39.535	52.492	28.661	0.00	0.00
ATOM	1445	HB3	TYR	X	94	38.415	52.548	27.379	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.010	54.529	28.149	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.001	55.308	27.502	0.00	0.00
ATOM	1448	HD1	TYR	X	94	37.054	54.861	27.243	0.00	0.00
ATOM	1449	CE1	TYR	X	94	38.220	56.679	27.318	0.00	0.00
ATOM	1450	HE1	TYR	X	94	37.448	57.263	26.840	0.00	0.00
ATOM	1451	CZ	TYR	X	94	39.506	57.217	27.732	0.00	0.00
ATOM	1452	OH	TYR	X	94	39.786	58.492	27.418	0.00	0.00
ATOM	1453	HH	TYR	X	94	40.654	58.751	27.737	0.00	0.00
ATOM	1454	CE2	TYR	X	94	40.485	56.417	28.222	0.00	0.00
ATOM	1455	HE2	TYR	X	94	41.313	56.903	28.717	0.00	0.00
ATOM	1456	CD2	TYR	X	94	40.235	55.101	28.530	0.00	0.00
ATOM	1457	HD2	TYR	X	94	40.972	54.518	29.062	0.00	0.00
ATOM	1458	C	TYR	X	94	37.384	51.234	29.351	0.00	0.00
ATOM	1459	O	TYR	X	94	37.921	50.481	30.183	0.00	0.00
ATOM	1460	N	LEU	X	95	36.585	50.746	28.416	0.00	0.00
ATOM	1461	H	LEU	X	95	36.134	51.381	27.773	0.00	0.00
ATOM	1462	CA	LEU	X	95	36.152	49.310	28.448	0.00	0.00
ATOM	1463	HA	LEU	X	95	36.650	48.764	29.250	0.00	0.00
ATOM	1464	CB	LEU	X	95	34.580	49.387	28.697	0.00	0.00
ATOM	1465	HB2	LEU	X	95	34.358	50.090	29.500	0.00	0.00
ATOM	1466	HB3	LEU	X	95	34.119	49.774	27.788	0.00	0.00
ATOM	1467	CG	LEU	X	95	34.102	47.961	28.977	0.00	0.00
ATOM	1468	HG	LEU	X	95	34.645	47.246	28.359	0.00	0.00
ATOM	1469	CD1	LEU	X	95	34.191	47.562	30.486	0.00	0.00
ATOM	1470	HD11	LEU	X	95	33.848	48.358	31.147	0.00	0.00
ATOM	1471	HD12	LEU	X	95	35.228	47.419	30.790	0.00	0.00
ATOM	1472	HD13	LEU	X	95	33.600	46.680	30.731	0.00	0.00

ATOM	1473	CD2	LEU	X	95	32.659	47.830	28.554	0.00	0.00
ATOM	1474	HD21	LEU	X	95	32.069	48.439	29.239	0.00	0.00
ATOM	1475	HD22	LEU	X	95	32.576	48.292	27.570	0.00	0.00
ATOM	1476	HD23	LEU	X	95	32.342	46.789	28.496	0.00	0.00
ATOM	1477	C	LEU	X	95	36.524	48.691	27.090	0.00	0.00
ATOM	1478	O	LEU	X	95	36.371	49.339	26.046	0.00	0.00
ATOM	1479	N	ASN	X	96	36.929	47.484	27.003	0.00	0.00
ATOM	1480	H	ASN	X	96	36.829	46.930	27.841	0.00	0.00
ATOM	1481	CA	ASN	X	96	37.300	46.699	25.782	0.00	0.00
ATOM	1482	HA	ASN	X	96	37.090	47.347	24.931	0.00	0.00
ATOM	1483	CB	ASN	X	96	38.822	46.374	25.694	0.00	0.00
ATOM	1484	HB2	ASN	X	96	38.905	45.537	26.387	0.00	0.00
ATOM	1485	HB3	ASN	X	96	39.109	45.915	24.748	0.00	0.00
ATOM	1486	CG	ASN	X	96	39.837	47.519	25.963	0.00	0.00
ATOM	1487	OD1	ASN	X	96	39.942	48.387	25.103	0.00	0.00
ATOM	1488	ND2	ASN	X	96	40.502	47.461	27.158	0.00	0.00
ATOM	1489	HD21	ASN	X	96	41.124	48.236	27.334	0.00	0.00
ATOM	1490	HD22	ASN	X	96	40.265	46.766	27.852	0.00	0.00
ATOM	1491	C	ASN	X	96	36.411	45.436	25.764	0.00	0.00
ATOM	1492	O	ASN	X	96	36.212	44.866	26.821	0.00	0.00
ATOM	1493	N	VAL	X	97	35.720	45.143	24.605	0.00	0.00
ATOM	1494	H	VAL	X	97	35.875	45.801	23.856	0.00	0.00
ATOM	1495	CA	VAL	X	97	34.844	44.035	24.271	0.00	0.00
ATOM	1496	HA	VAL	X	97	34.700	43.368	25.121	0.00	0.00
ATOM	1497	CB	VAL	X	97	33.377	44.522	24.016	0.00	0.00
ATOM	1498	HB	VAL	X	97	33.486	45.184	23.157	0.00	0.00
ATOM	1499	CG1	VAL	X	97	32.335	43.377	23.795	0.00	0.00
ATOM	1500	HG11	VAL	X	97	32.608	42.916	22.846	0.00	0.00
ATOM	1501	HG12	VAL	X	97	32.280	42.586	24.543	0.00	0.00
ATOM	1502	HG13	VAL	X	97	31.367	43.872	23.714	0.00	0.00
ATOM	1503	CG2	VAL	X	97	32.862	45.556	25.028	0.00	0.00
ATOM	1504	HG21	VAL	X	97	33.504	46.425	25.172	0.00	0.00
ATOM	1505	HG22	VAL	X	97	32.811	44.955	25.936	0.00	0.00
ATOM	1506	HG23	VAL	X	97	31.832	45.834	24.802	0.00	0.00
ATOM	1507	C	VAL	X	97	35.295	43.213	23.100	0.00	0.00
ATOM	1508	O	VAL	X	97	35.626	43.813	22.073	0.00	0.00
ATOM	1509	N	TRP	X	98	35.443	41.903	23.316	0.00	0.00
ATOM	1510	H	TRP	X	98	35.431	41.654	24.295	0.00	0.00
ATOM	1511	CA	TRP	X	98	35.778	40.962	22.248	0.00	0.00
ATOM	1512	HA	TRP	X	98	36.012	41.569	21.374	0.00	0.00
ATOM	1513	CB	TRP	X	98	37.045	40.239	22.654	0.00	0.00
ATOM	1514	HB2	TRP	X	98	36.785	39.743	23.589	0.00	0.00
ATOM	1515	HB3	TRP	X	98	37.205	39.450	21.919	0.00	0.00
ATOM	1516	CG	TRP	X	98	38.322	41.035	22.711	0.00	0.00
ATOM	1517	CD1	TRP	X	98	39.148	41.371	21.699	0.00	0.00
ATOM	1518	HD1	TRP	X	98	38.994	40.923	20.728	0.00	0.00
ATOM	1519	NE1	TRP	X	98	40.123	42.211	22.170	0.00	0.00
ATOM	1520	HE1	TRP	X	98	40.772	42.788	21.653	0.00	0.00
ATOM	1521	CE2	TRP	X	98	40.042	42.375	23.483	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	40.862	43.075	24.320	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	41.774	43.522	23.952	0.00	0.00
ATOM	1524	CH2	TRP	X	98	40.382	43.208	25.614	0.00	0.00
ATOM	1525	HH2	TRP	X	98	40.896	43.887	26.277	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	39.160	42.705	26.046	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	38.934	42.822	27.096	0.00	0.00
ATOM	1528	CE3	TRP	X	98	38.315	41.970	25.166	0.00	0.00
ATOM	1529	HE3	TRP	X	98	37.416	41.482	25.515	0.00	0.00
ATOM	1530	CD2	TRP	X	98	38.807	41.703	23.869	0.00	0.00
ATOM	1531	C	TRP	X	98	34.560	40.085	22.033	0.00	0.00
ATOM	1532	O	TRP	X	98	33.900	39.572	22.938	0.00	0.00
ATOM	1533	N	THR	X	99	34.223	39.830	20.744	0.00	0.00
ATOM	1534	H	THR	X	99	34.755	40.347	20.058	0.00	0.00
ATOM	1535	CA	THR	X	99	32.916	39.184	20.358	0.00	0.00
ATOM	1536	HA	THR	X	99	32.678	38.313	20.968	0.00	0.00
ATOM	1537	CB	THR	X	99	31.702	40.126	20.573	0.00	0.00
ATOM	1538	HB	THR	X	99	31.756	40.519	21.589	0.00	0.00
ATOM	1539	CG2	THR	X	99	31.494	41.325	19.643	0.00	0.00

ATOM	1540	HG21	THR	X	99	30.973	42.064	20.251	0.00	0.00
ATOM	1541	HG22	THR	X	99	30.980	41.051	18.722	0.00	0.00
ATOM	1542	HG23	THR	X	99	32.406	41.846	19.350	0.00	0.00
ATOM	1543	OG1	THR	X	99	30.599	39.307	20.448	0.00	0.00
ATOM	1544	HG1	THR	X	99	29.844	39.698	20.894	0.00	0.00
ATOM	1545	C	THR	X	99	33.080	38.599	18.939	0.00	0.00
ATOM	1546	O	THR	X	99	33.767	39.232	18.182	0.00	0.00
ATOM	1547	N	PRO	X	100	32.574	37.453	18.514	0.00	0.00
ATOM	1548	CD	PRO	X	100	31.823	36.541	19.314	0.00	0.00
ATOM	1549	HD2	PRO	X	100	30.780	36.828	19.177	0.00	0.00
ATOM	1550	HD3	PRO	X	100	31.986	36.614	20.389	0.00	0.00
ATOM	1551	CG	PRO	X	100	31.939	35.122	18.764	0.00	0.00
ATOM	1552	HG2	PRO	X	100	31.087	34.455	18.898	0.00	0.00
ATOM	1553	HG3	PRO	X	100	32.755	34.557	19.215	0.00	0.00
ATOM	1554	CB	PRO	X	100	32.298	35.406	17.331	0.00	0.00
ATOM	1555	HB2	PRO	X	100	31.343	35.222	16.840	0.00	0.00
ATOM	1556	HB3	PRO	X	100	33.027	34.684	16.963	0.00	0.00
ATOM	1557	CA	PRO	X	100	32.724	36.848	17.195	0.00	0.00
ATOM	1558	HA	PRO	X	100	33.777	36.820	16.913	0.00	0.00
ATOM	1559	C	PRO	X	100	32.047	37.588	16.062	0.00	0.00
ATOM	1560	O	PRO	X	100	31.221	38.442	16.265	0.00	0.00
ATOM	1561	N	TYR	X	101	32.375	37.194	14.849	0.00	0.00
ATOM	1562	H	TYR	X	101	32.899	36.359	14.633	0.00	0.00
ATOM	1563	CA	TYR	X	101	31.842	37.874	13.675	0.00	0.00
ATOM	1564	HA	TYR	X	101	31.131	38.630	14.007	0.00	0.00
ATOM	1565	CB	TYR	X	101	33.005	38.568	12.944	0.00	0.00
ATOM	1566	HB2	TYR	X	101	33.482	39.301	13.594	0.00	0.00
ATOM	1567	HB3	TYR	X	101	33.786	37.857	12.675	0.00	0.00
ATOM	1568	CG	TYR	X	101	32.589	39.355	11.635	0.00	0.00
ATOM	1569	CD1	TYR	X	101	32.570	38.677	10.408	0.00	0.00
ATOM	1570	HD1	TYR	X	101	32.657	37.601	10.405	0.00	0.00
ATOM	1571	CE1	TYR	X	101	32.437	39.410	9.238	0.00	0.00
ATOM	1572	HE1	TYR	X	101	32.296	38.965	8.264	0.00	0.00
ATOM	1573	CZ	TYR	X	101	32.171	40.807	9.373	0.00	0.00
ATOM	1574	OH	TYR	X	101	32.075	41.584	8.271	0.00	0.00
ATOM	1575	HH	TYR	X	101	31.947	41.065	7.474	0.00	0.00
ATOM	1576	CE2	TYR	X	101	32.011	41.412	10.652	0.00	0.00
ATOM	1577	HE2	TYR	X	101	31.763	42.457	10.762	0.00	0.00
ATOM	1578	CD2	TYR	X	101	32.291	40.692	11.797	0.00	0.00
ATOM	1579	HD2	TYR	X	101	32.209	41.154	12.770	0.00	0.00
ATOM	1580	C	TYR	X	101	31.169	36.815	12.794	0.00	0.00
ATOM	1581	O	TYR	X	101	31.898	35.854	12.530	0.00	0.00
ATOM	1582	N	PRO	X	102	29.926	36.967	12.322	0.00	0.00
ATOM	1583	CD	PRO	X	102	29.441	36.007	11.310	0.00	0.00
ATOM	1584	HD2	PRO	X	102	29.625	34.960	11.554	0.00	0.00
ATOM	1585	HD3	PRO	X	102	29.906	36.242	10.353	0.00	0.00
ATOM	1586	CG	PRO	X	102	27.935	36.350	11.161	0.00	0.00
ATOM	1587	HG2	PRO	X	102	27.409	35.695	11.855	0.00	0.00
ATOM	1588	HG3	PRO	X	102	27.609	36.210	10.130	0.00	0.00
ATOM	1589	CB	PRO	X	102	27.867	37.837	11.643	0.00	0.00
ATOM	1590	HB2	PRO	X	102	26.928	38.103	12.129	0.00	0.00
ATOM	1591	HB3	PRO	X	102	27.878	38.550	10.820	0.00	0.00
ATOM	1592	CA	PRO	X	102	28.982	38.050	12.573	0.00	0.00
ATOM	1593	HA	PRO	X	102	29.469	39.004	12.368	0.00	0.00
ATOM	1594	C	PRO	X	102	28.641	38.159	14.017	0.00	0.00
ATOM	1595	O	PRO	X	102	28.815	37.174	14.784	0.00	0.00
ATOM	1596	N	ARG	X	103	28.159	39.367	14.424	0.00	0.00
ATOM	1597	H	ARG	X	103	28.257	40.115	13.752	0.00	0.00
ATOM	1598	CA	ARG	X	103	27.801	39.598	15.818	0.00	0.00
ATOM	1599	HA	ARG	X	103	28.721	39.558	16.401	0.00	0.00
ATOM	1600	CB	ARG	X	103	27.380	41.106	15.993	0.00	0.00
ATOM	1601	HB2	ARG	X	103	28.088	41.732	15.450	0.00	0.00
ATOM	1602	HB3	ARG	X	103	26.429	41.215	15.472	0.00	0.00
ATOM	1603	CG	ARG	X	103	27.289	41.590	17.446	0.00	0.00
ATOM	1604	HG2	ARG	X	103	26.490	41.004	17.900	0.00	0.00
ATOM	1605	HG3	ARG	X	103	28.165	41.275	18.012	0.00	0.00
ATOM	1606	CD	ARG	X	103	27.177	43.051	17.646	0.00	0.00

ATOM	1607	HD2	ARG	X	103	26.959	43.293	18.686	0.00	0.00
ATOM	1608	HD3	ARG	X	103	28.157	43.507	17.505	0.00	0.00
ATOM	1609	NE	ARG	X	103	26.162	43.688	16.811	0.00	0.00
ATOM	1610	HE	ARG	X	103	25.213	43.634	17.153	0.00	0.00
ATOM	1611	CZ	ARG	X	103	26.346	44.552	15.819	0.00	0.00
ATOM	1612	NH1	ARG	X	103	27.505	44.940	15.370	0.00	0.00
ATOM	1613	HH11	ARG	X	103	28.411	44.522	15.526	0.00	0.00
ATOM	1614	HH12	ARG	X	103	27.546	45.840	14.914	0.00	0.00
ATOM	1615	NH2	ARG	X	103	25.342	45.025	15.179	0.00	0.00
ATOM	1616	HH21	ARG	X	103	24.436	44.645	15.412	0.00	0.00
ATOM	1617	HH22	ARG	X	103	25.407	45.732	14.460	0.00	0.00
ATOM	1618	C	ARG	X	103	26.767	38.595	16.422	0.00	0.00
ATOM	1619	O	ARG	X	103	25.816	38.243	15.735	0.00	0.00
ATOM	1620	N	PRO	X	104	26.875	38.080	17.673	0.00	0.00
ATOM	1621	CD	PRO	X	104	28.121	38.132	18.439	0.00	0.00
ATOM	1622	HD2	PRO	X	104	28.392	39.142	18.748	0.00	0.00
ATOM	1623	HD3	PRO	X	104	28.891	37.766	17.759	0.00	0.00
ATOM	1624	CG	PRO	X	104	27.981	37.327	19.680	0.00	0.00
ATOM	1625	HG2	PRO	X	104	27.520	38.055	20.347	0.00	0.00
ATOM	1626	HG3	PRO	X	104	28.919	36.842	19.949	0.00	0.00
ATOM	1627	CB	PRO	X	104	26.889	36.335	19.269	0.00	0.00
ATOM	1628	HB2	PRO	X	104	26.233	36.191	20.128	0.00	0.00
ATOM	1629	HB3	PRO	X	104	27.325	35.374	18.994	0.00	0.00
ATOM	1630	CA	PRO	X	104	26.139	36.918	18.045	0.00	0.00
ATOM	1631	HA	PRO	X	104	26.237	36.234	17.203	0.00	0.00
ATOM	1632	C	PRO	X	104	24.612	37.124	18.270	0.00	0.00
ATOM	1633	O	PRO	X	104	24.205	38.108	18.965	0.00	0.00
ATOM	1634	N	THR	X	105	23.738	36.288	17.665	0.00	0.00
ATOM	1635	H	THR	X	105	24.185	35.691	16.985	0.00	0.00
ATOM	1636	CA	THR	X	105	22.274	36.318	17.518	0.00	0.00
ATOM	1637	HA	THR	X	105	21.936	37.354	17.471	0.00	0.00
ATOM	1638	CB	THR	X	105	22.056	35.736	16.102	0.00	0.00
ATOM	1639	HB	THR	X	105	21.004	35.715	15.816	0.00	0.00
ATOM	1640	CG2	THR	X	105	22.721	36.515	15.022	0.00	0.00
ATOM	1641	HG21	THR	X	105	22.569	36.119	14.018	0.00	0.00
ATOM	1642	HG22	THR	X	105	23.793	36.570	15.214	0.00	0.00
ATOM	1643	HG23	THR	X	105	22.341	37.536	15.029	0.00	0.00
ATOM	1644	OG1	THR	X	105	22.569	34.422	16.064	0.00	0.00
ATOM	1645	HG1	THR	X	105	21.810	33.833	16.061	0.00	0.00
ATOM	1646	C	THR	X	105	21.501	35.635	18.727	0.00	0.00
ATOM	1647	O	THR	X	105	20.236	35.485	18.536	0.00	0.00
ATOM	1648	N	SER	X	106	22.124	35.223	19.799	0.00	0.00
ATOM	1649	H	SER	X	106	23.088	35.522	19.804	0.00	0.00
ATOM	1650	CA	SER	X	106	21.622	34.250	20.780	0.00	0.00
ATOM	1651	HA	SER	X	106	20.709	34.702	21.168	0.00	0.00
ATOM	1652	CB	SER	X	106	21.256	32.894	20.132	0.00	0.00
ATOM	1653	HB2	SER	X	106	21.167	32.183	20.953	0.00	0.00
ATOM	1654	HB3	SER	X	106	20.361	32.983	19.515	0.00	0.00
ATOM	1655	OG	SER	X	106	22.320	32.447	19.190	0.00	0.00
ATOM	1656	HG	SER	X	106	22.093	31.533	19.004	0.00	0.00
ATOM	1657	C	SER	X	106	22.568	34.086	21.903	0.00	0.00
ATOM	1658	O	SER	X	106	23.783	34.172	21.710	0.00	0.00
ATOM	1659	N	PRO	X	107	22.041	33.835	23.135	0.00	0.00
ATOM	1660	CD	PRO	X	107	20.628	33.681	23.500	0.00	0.00
ATOM	1661	HD2	PRO	X	107	20.115	33.008	22.813	0.00	0.00
ATOM	1662	HD3	PRO	X	107	20.204	34.654	23.253	0.00	0.00
ATOM	1663	CG	PRO	X	107	20.563	33.386	24.982	0.00	0.00
ATOM	1664	HG2	PRO	X	107	19.911	32.531	25.164	0.00	0.00
ATOM	1665	HG3	PRO	X	107	20.258	34.329	25.435	0.00	0.00
ATOM	1666	CB	PRO	X	107	21.972	33.024	25.373	0.00	0.00
ATOM	1667	HB2	PRO	X	107	22.060	31.979	25.078	0.00	0.00
ATOM	1668	HB3	PRO	X	107	22.246	33.344	26.379	0.00	0.00
ATOM	1669	CA	PRO	X	107	22.833	33.796	24.386	0.00	0.00
ATOM	1670	HA	PRO	X	107	22.957	34.820	24.737	0.00	0.00
ATOM	1671	C	PRO	X	107	24.224	33.261	24.380	0.00	0.00
ATOM	1672	O	PRO	X	107	24.518	32.202	23.820	0.00	0.00
ATOM	1673	N	THR	X	108	25.045	33.937	25.177	0.00	0.00

ATOM	1674	H	THR	X	108	24.714	34.805	25.575	0.00	0.00
ATOM	1675	CA	THR	X	108	26.434	33.483	25.363	0.00	0.00
ATOM	1676	HA	THR	X	108	26.318	32.450	25.689	0.00	0.00
ATOM	1677	CB	THR	X	108	27.170	33.510	24.018	0.00	0.00
ATOM	1678	HB	THR	X	108	26.620	33.221	23.123	0.00	0.00
ATOM	1679	CG2	THR	X	108	27.793	34.821	23.718	0.00	0.00
ATOM	1680	HG21	THR	X	108	28.380	35.196	24.556	0.00	0.00
ATOM	1681	HG22	THR	X	108	27.026	35.564	23.496	0.00	0.00
ATOM	1682	HG23	THR	X	108	28.376	34.749	22.800	0.00	0.00
ATOM	1683	OG1	THR	X	108	28.188	32.609	24.164	0.00	0.00
ATOM	1684	HG1	THR	X	108	28.722	32.720	23.374	0.00	0.00
ATOM	1685	C	THR	X	108	27.088	34.195	26.549	0.00	0.00
ATOM	1686	O	THR	X	108	26.807	35.389	26.714	0.00	0.00
ATOM	1687	N	PRO	X	109	27.820	33.503	27.479	0.00	0.00
ATOM	1688	CD	PRO	X	109	28.142	32.080	27.457	0.00	0.00
ATOM	1689	HD2	PRO	X	109	28.579	31.794	26.501	0.00	0.00
ATOM	1690	HD3	PRO	X	109	27.250	31.500	27.690	0.00	0.00
ATOM	1691	CG	PRO	X	109	29.133	31.959	28.581	0.00	0.00
ATOM	1692	HG2	PRO	X	109	30.171	31.958	28.247	0.00	0.00
ATOM	1693	HG3	PRO	X	109	29.024	30.924	28.905	0.00	0.00
ATOM	1694	CB	PRO	X	109	28.700	32.995	29.663	0.00	0.00
ATOM	1695	HB2	PRO	X	109	29.532	33.194	30.339	0.00	0.00
ATOM	1696	HB3	PRO	X	109	27.874	32.513	30.187	0.00	0.00
ATOM	1697	CA	PRO	X	109	28.124	34.153	28.761	0.00	0.00
ATOM	1698	HA	PRO	X	109	27.170	34.599	29.043	0.00	0.00
ATOM	1699	C	PRO	X	109	29.277	35.118	28.504	0.00	0.00
ATOM	1700	O	PRO	X	109	29.989	35.013	27.498	0.00	0.00
ATOM	1701	N	VAL	X	110	29.318	36.068	29.418	0.00	0.00
ATOM	1702	H	VAL	X	110	28.774	35.865	30.245	0.00	0.00
ATOM	1703	CA	VAL	X	110	30.264	37.164	29.520	0.00	0.00
ATOM	1704	HA	VAL	X	110	30.691	37.200	28.517	0.00	0.00
ATOM	1705	CB	VAL	X	110	29.586	38.513	29.775	0.00	0.00
ATOM	1706	HB	VAL	X	110	29.204	38.478	30.795	0.00	0.00
ATOM	1707	CG1	VAL	X	110	30.619	39.664	29.667	0.00	0.00
ATOM	1708	HG11	VAL	X	110	31.279	39.697	30.534	0.00	0.00
ATOM	1709	HG12	VAL	X	110	31.286	39.525	28.816	0.00	0.00
ATOM	1710	HG13	VAL	X	110	30.130	40.636	29.614	0.00	0.00
ATOM	1711	CG2	VAL	X	110	28.355	38.762	28.891	0.00	0.00
ATOM	1712	HG21	VAL	X	110	27.572	38.007	28.967	0.00	0.00
ATOM	1713	HG22	VAL	X	110	28.747	38.943	27.890	0.00	0.00
ATOM	1714	HG23	VAL	X	110	27.870	39.688	29.198	0.00	0.00
ATOM	1715	C	VAL	X	110	31.343	36.852	30.551	0.00	0.00
ATOM	1716	O	VAL	X	110	31.061	36.569	31.728	0.00	0.00
ATOM	1717	N	LEU	X	111	32.623	36.924	30.107	0.00	0.00
ATOM	1718	H	LEU	X	111	32.688	37.015	29.103	0.00	0.00
ATOM	1719	CA	LEU	X	111	33.831	36.811	30.856	0.00	0.00
ATOM	1720	HA	LEU	X	111	33.606	36.484	31.871	0.00	0.00
ATOM	1721	CB	LEU	X	111	34.873	35.771	30.218	0.00	0.00
ATOM	1722	HB2	LEU	X	111	35.257	36.146	29.269	0.00	0.00
ATOM	1723	HB3	LEU	X	111	35.819	35.798	30.758	0.00	0.00
ATOM	1724	CG	LEU	X	111	34.511	34.284	29.920	0.00	0.00
ATOM	1725	HG	LEU	X	111	33.483	34.288	29.559	0.00	0.00
ATOM	1726	CD1	LEU	X	111	35.390	33.795	28.802	0.00	0.00
ATOM	1727	HD11	LEU	X	111	35.016	32.797	28.574	0.00	0.00
ATOM	1728	HD12	LEU	X	111	36.431	33.767	29.124	0.00	0.00
ATOM	1729	HD13	LEU	X	111	35.277	34.349	27.870	0.00	0.00
ATOM	1730	CD2	LEU	X	111	34.646	33.369	31.163	0.00	0.00
ATOM	1731	HD21	LEU	X	111	35.617	33.525	31.633	0.00	0.00
ATOM	1732	HD22	LEU	X	111	33.787	33.595	31.795	0.00	0.00
ATOM	1733	HD23	LEU	X	111	34.620	32.331	30.832	0.00	0.00
ATOM	1734	C	LEU	X	111	34.400	38.250	31.088	0.00	0.00
ATOM	1735	O	LEU	X	111	34.792	38.875	30.120	0.00	0.00
ATOM	1736	N	VAL	X	112	34.371	38.793	32.379	0.00	0.00
ATOM	1737	H	VAL	X	112	33.850	38.288	33.082	0.00	0.00
ATOM	1738	CA	VAL	X	112	34.837	40.166	32.583	0.00	0.00
ATOM	1739	HA	VAL	X	112	34.981	40.641	31.612	0.00	0.00
ATOM	1740	CB	VAL	X	112	33.909	41.077	33.359	0.00	0.00

ATOM	1741	HB	VAL	X	112	33.723	40.624	34.333	0.00	0.00
ATOM	1742	CG1	VAL	X	112	34.514	42.492	33.532	0.00	0.00
ATOM	1743	HG11	VAL	X	112	33.857	43.027	34.218	0.00	0.00
ATOM	1744	HG12	VAL	X	112	35.475	42.542	34.045	0.00	0.00
ATOM	1745	HG13	VAL	X	112	34.478	43.045	32.594	0.00	0.00
ATOM	1746	CG2	VAL	X	112	32.481	41.265	32.796	0.00	0.00
ATOM	1747	HG21	VAL	X	112	31.914	41.939	33.439	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.957	40.310	32.854	0.00	0.00
ATOM	1749	HG23	VAL	X	112	32.450	41.580	31.753	0.00	0.00
ATOM	1750	C	VAL	X	112	36.182	40.166	33.342	0.00	0.00
ATOM	1751	O	VAL	X	112	36.178	39.822	34.522	0.00	0.00
ATOM	1752	N	TRP	X	113	37.290	40.539	32.624	0.00	0.00
ATOM	1753	H	TRP	X	113	37.274	40.858	31.666	0.00	0.00
ATOM	1754	CA	TRP	X	113	38.568	40.662	33.216	0.00	0.00
ATOM	1755	HA	TRP	X	113	38.621	39.790	33.869	0.00	0.00
ATOM	1756	CB	TRP	X	113	39.635	40.476	32.175	0.00	0.00
ATOM	1757	HB2	TRP	X	113	39.369	39.550	31.667	0.00	0.00
ATOM	1758	HB3	TRP	X	113	39.699	41.298	31.462	0.00	0.00
ATOM	1759	CG	TRP	X	113	40.994	40.338	32.715	0.00	0.00
ATOM	1760	CD1	TRP	X	113	42.037	41.193	32.560	0.00	0.00
ATOM	1761	HD1	TRP	X	113	41.966	41.970	31.813	0.00	0.00
ATOM	1762	NE1	TRP	X	113	43.182	40.835	33.239	0.00	0.00
ATOM	1763	HE1	TRP	X	113	44.093	41.271	33.229	0.00	0.00
ATOM	1764	CE2	TRP	X	113	42.998	39.502	33.715	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	43.791	38.626	34.345	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	44.828	38.842	34.556	0.00	0.00
ATOM	1767	CH2	TRP	X	113	43.243	37.339	34.728	0.00	0.00
ATOM	1768	HH2	TRP	X	113	43.936	36.635	35.165	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	41.814	37.081	34.640	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	41.502	36.090	34.937	0.00	0.00
ATOM	1771	CE3	TRP	X	113	41.028	38.086	34.031	0.00	0.00
ATOM	1772	HE3	TRP	X	113	39.965	37.927	33.931	0.00	0.00
ATOM	1773	CD2	TRP	X	113	41.528	39.274	33.542	0.00	0.00
ATOM	1774	C	TRP	X	113	38.771	41.962	34.062	0.00	0.00
ATOM	1775	O	TRP	X	113	38.596	43.077	33.613	0.00	0.00
ATOM	1776	N	ILE	X	114	39.302	41.704	35.308	0.00	0.00
ATOM	1777	H	ILE	X	114	39.394	40.750	35.624	0.00	0.00
ATOM	1778	CA	ILE	X	114	39.862	42.766	36.183	0.00	0.00
ATOM	1779	HA	ILE	X	114	39.915	43.671	35.576	0.00	0.00
ATOM	1780	CB	ILE	X	114	38.929	42.888	37.464	0.00	0.00
ATOM	1781	HB	ILE	X	114	38.936	41.883	37.887	0.00	0.00
ATOM	1782	CG2	ILE	X	114	39.516	43.956	38.383	0.00	0.00
ATOM	1783	HG21	ILE	X	114	38.754	44.242	39.108	0.00	0.00
ATOM	1784	HG22	ILE	X	114	39.888	44.797	37.799	0.00	0.00
ATOM	1785	HG23	ILE	X	114	40.401	43.572	38.891	0.00	0.00
ATOM	1786	CG1	ILE	X	114	37.537	43.355	37.005	0.00	0.00
ATOM	1787	HG12	ILE	X	114	37.528	44.394	36.674	0.00	0.00
ATOM	1788	HG13	ILE	X	114	37.184	42.759	36.164	0.00	0.00
ATOM	1789	CD1	ILE	X	114	36.459	43.171	38.109	0.00	0.00
ATOM	1790	HD11	ILE	X	114	36.639	42.186	38.542	0.00	0.00
ATOM	1791	HD12	ILE	X	114	35.458	43.279	37.693	0.00	0.00
ATOM	1792	HD13	ILE	X	114	36.607	43.898	38.907	0.00	0.00
ATOM	1793	C	ILE	X	114	41.278	42.405	36.635	0.00	0.00
ATOM	1794	O	ILE	X	114	41.520	41.249	36.935	0.00	0.00
ATOM	1795	N	TYR	X	115	42.272	43.276	36.533	0.00	0.00
ATOM	1796	H	TYR	X	115	42.026	44.248	36.413	0.00	0.00
ATOM	1797	CA	TYR	X	115	43.665	42.925	36.495	0.00	0.00
ATOM	1798	HA	TYR	X	115	43.730	41.841	36.400	0.00	0.00
ATOM	1799	CB	TYR	X	115	44.220	43.712	35.306	0.00	0.00
ATOM	1800	HB2	TYR	X	115	45.295	43.540	35.246	0.00	0.00
ATOM	1801	HB3	TYR	X	115	43.893	43.370	34.324	0.00	0.00
ATOM	1802	CG	TYR	X	115	44.065	45.242	35.292	0.00	0.00
ATOM	1803	CD1	TYR	X	115	44.717	46.146	36.182	0.00	0.00
ATOM	1804	HD1	TYR	X	115	45.253	45.634	36.967	0.00	0.00
ATOM	1805	CE1	TYR	X	115	44.379	47.485	36.255	0.00	0.00
ATOM	1806	HE1	TYR	X	115	44.702	48.114	37.071	0.00	0.00
ATOM	1807	CZ	TYR	X	115	43.689	48.034	35.157	0.00	0.00

ATOM	1808	OH	TYR	X	115	43.436	49.375	35.123	0.00	0.00
ATOM	1809	HH	TYR	X	115	43.837	49.989	35.742	0.00	0.00
ATOM	1810	CE2	TYR	X	115	43.314	47.189	34.072	0.00	0.00
ATOM	1811	HE2	TYR	X	115	42.842	47.726	33.263	0.00	0.00
ATOM	1812	CD2	TYR	X	115	43.411	45.784	34.162	0.00	0.00
ATOM	1813	HD2	TYR	X	115	42.988	45.139	33.406	0.00	0.00
ATOM	1814	C	TYR	X	115	44.595	43.155	37.764	0.00	0.00
ATOM	1815	O	TYR	X	115	44.157	43.788	38.735	0.00	0.00
ATOM	1816	N	GLY	X	116	45.872	42.642	37.659	0.00	0.00
ATOM	1817	H	GLY	X	116	46.046	41.881	37.018	0.00	0.00
ATOM	1818	CA	GLY	X	116	46.719	42.626	38.849	0.00	0.00
ATOM	1819	HA2	GLY	X	116	46.068	42.603	39.723	0.00	0.00
ATOM	1820	HA3	GLY	X	116	47.345	41.735	38.903	0.00	0.00
ATOM	1821	C	GLY	X	116	47.629	43.881	39.018	0.00	0.00
ATOM	1822	O	GLY	X	116	47.385	44.876	38.311	0.00	0.00
ATOM	1823	N	GLY	X	117	48.739	43.748	39.734	0.00	0.00
ATOM	1824	H	GLY	X	117	48.946	42.847	40.140	0.00	0.00
ATOM	1825	CA	GLY	X	117	49.803	44.772	39.769	0.00	0.00
ATOM	1826	HA2	GLY	X	117	50.796	44.341	39.643	0.00	0.00
ATOM	1827	HA3	GLY	X	117	49.726	45.546	39.005	0.00	0.00
ATOM	1828	C	GLY	X	117	49.846	45.542	41.087	0.00	0.00
ATOM	1829	O	GLY	X	117	50.222	46.714	41.179	0.00	0.00
ATOM	1830	N	GLY	X	118	49.446	44.866	42.177	0.00	0.00
ATOM	1831	H	GLY	X	118	49.090	43.935	42.012	0.00	0.00
ATOM	1832	CA	GLY	X	118	49.727	45.253	43.586	0.00	0.00
ATOM	1833	HA2	GLY	X	118	49.653	44.380	44.235	0.00	0.00
ATOM	1834	HA3	GLY	X	118	50.718	45.701	43.663	0.00	0.00
ATOM	1835	C	GLY	X	118	48.817	46.386	44.100	0.00	0.00
ATOM	1836	O	GLY	X	118	48.946	46.920	45.252	0.00	0.00
ATOM	1837	N	PHE	X	119	47.920	46.896	43.226	0.00	0.00
ATOM	1838	H	PHE	X	119	47.915	46.475	42.308	0.00	0.00
ATOM	1839	CA	PHE	X	119	47.062	48.036	43.341	0.00	0.00
ATOM	1840	HA	PHE	X	119	46.241	47.946	42.629	0.00	0.00
ATOM	1841	CB	PHE	X	119	46.325	48.111	44.642	0.00	0.00
ATOM	1842	HB2	PHE	X	119	47.057	47.996	45.441	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.800	49.061	44.747	0.00	0.00
ATOM	1844	CG	PHE	X	119	45.318	46.932	44.825	0.00	0.00
ATOM	1845	CD1	PHE	X	119	44.023	47.047	44.285	0.00	0.00
ATOM	1846	HD1	PHE	X	119	43.706	47.954	43.790	0.00	0.00
ATOM	1847	CE1	PHE	X	119	43.023	46.076	44.470	0.00	0.00
ATOM	1848	HE1	PHE	X	119	42.055	46.276	44.036	0.00	0.00
ATOM	1849	CZ	PHE	X	119	43.394	44.908	45.175	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.547	44.247	45.287	0.00	0.00
ATOM	1851	CE2	PHE	X	119	44.676	44.751	45.761	0.00	0.00
ATOM	1852	HE2	PHE	X	119	44.913	43.942	46.435	0.00	0.00
ATOM	1853	CD2	PHE	X	119	45.576	45.793	45.597	0.00	0.00
ATOM	1854	HD2	PHE	X	119	46.512	45.688	46.125	0.00	0.00
ATOM	1855	C	PHE	X	119	47.734	49.377	43.026	0.00	0.00
ATOM	1856	O	PHE	X	119	47.033	50.382	42.761	0.00	0.00
ATOM	1857	N	TYR	X	120	49.054	49.382	42.837	0.00	0.00
ATOM	1858	H	TYR	X	120	49.555	48.636	43.299	0.00	0.00
ATOM	1859	CA	TYR	X	120	49.855	50.615	42.590	0.00	0.00
ATOM	1860	HA	TYR	X	120	49.198	51.458	42.801	0.00	0.00
ATOM	1861	CB	TYR	X	120	51.055	50.577	43.530	0.00	0.00
ATOM	1862	HB2	TYR	X	120	51.322	51.633	43.506	0.00	0.00
ATOM	1863	HB3	TYR	X	120	50.769	50.310	44.548	0.00	0.00
ATOM	1864	CG	TYR	X	120	52.233	49.683	43.123	0.00	0.00
ATOM	1865	CD1	TYR	X	120	53.401	50.201	42.521	0.00	0.00
ATOM	1866	HD1	TYR	X	120	53.489	51.275	42.446	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.383	49.357	42.045	0.00	0.00
ATOM	1868	HE1	TYR	X	120	55.255	49.680	41.495	0.00	0.00
ATOM	1869	CZ	TYR	X	120	54.234	47.981	42.091	0.00	0.00
ATOM	1870	OH	TYR	X	120	55.154	47.179	41.602	0.00	0.00
ATOM	1871	HH	TYR	X	120	54.844	46.270	41.631	0.00	0.00
ATOM	1872	CE2	TYR	X	120	53.046	47.432	42.640	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.749	46.401	42.517	0.00	0.00
ATOM	1874	CD2	TYR	X	120	52.032	48.287	43.155	0.00	0.00

ATOM	1875	HD2	TYR	X	120	51.080	47.849	43.420	0.00	0.00
ATOM	1876	C	TYR	X	120	50.196	50.858	41.072	0.00	0.00
ATOM	1877	O	TYR	X	120	50.546	51.968	40.648	0.00	0.00
ATOM	1878	N	SER	X	121	50.009	49.840	40.197	0.00	0.00
ATOM	1879	H	SER	X	121	49.551	49.001	40.524	0.00	0.00
ATOM	1880	CA	SER	X	121	50.698	49.716	38.835	0.00	0.00
ATOM	1881	HA	SER	X	121	50.679	50.682	38.331	0.00	0.00
ATOM	1882	CB	SER	X	121	52.191	49.442	38.950	0.00	0.00
ATOM	1883	HB2	SER	X	121	52.250	48.595	39.634	0.00	0.00
ATOM	1884	HB3	SER	X	121	52.549	49.077	37.987	0.00	0.00
ATOM	1885	OG	SER	X	121	53.055	50.488	39.376	0.00	0.00
ATOM	1886	HG	SER	X	121	52.626	50.916	40.121	0.00	0.00
ATOM	1887	C	SER	X	121	49.925	48.590	37.992	0.00	0.00
ATOM	1888	O	SER	X	121	50.275	47.374	38.027	0.00	0.00
ATOM	1889	N	GLY	X	122	48.842	48.925	37.233	0.00	0.00
ATOM	1890	H	GLY	X	122	48.618	49.908	37.289	0.00	0.00
ATOM	1891	CA	GLY	X	122	47.965	47.993	36.507	0.00	0.00
ATOM	1892	HA2	GLY	X	122	48.616	47.264	36.025	0.00	0.00
ATOM	1893	HA3	GLY	X	122	47.331	47.408	37.174	0.00	0.00
ATOM	1894	C	GLY	X	122	47.110	48.731	35.443	0.00	0.00
ATOM	1895	O	GLY	X	122	46.740	49.881	35.676	0.00	0.00
ATOM	1896	N	ALA	X	123	46.922	48.128	34.291	0.00	0.00
ATOM	1897	H	ALA	X	123	47.163	47.148	34.249	0.00	0.00
ATOM	1898	CA	ALA	X	123	46.221	48.651	33.133	0.00	0.00
ATOM	1899	HA	ALA	X	123	45.314	49.173	33.438	0.00	0.00
ATOM	1900	CB	ALA	X	123	47.112	49.663	32.445	0.00	0.00
ATOM	1901	HB1	ALA	X	123	46.587	50.185	31.644	0.00	0.00
ATOM	1902	HB2	ALA	X	123	47.841	49.019	31.954	0.00	0.00
ATOM	1903	HB3	ALA	X	123	47.460	50.390	33.179	0.00	0.00
ATOM	1904	C	ALA	X	123	45.743	47.625	32.102	0.00	0.00
ATOM	1905	O	ALA	X	123	46.213	46.472	32.170	0.00	0.00
ATOM	1906	N	SER	X	124	44.856	47.983	31.181	0.00	0.00
ATOM	1907	H	SER	X	124	44.540	48.940	31.249	0.00	0.00
ATOM	1908	CA	SER	X	124	44.154	47.099	30.168	0.00	0.00
ATOM	1909	HA	SER	X	124	43.989	46.191	30.748	0.00	0.00
ATOM	1910	CB	SER	X	124	42.779	47.703	29.774	0.00	0.00
ATOM	1911	HB2	SER	X	124	42.315	46.914	29.182	0.00	0.00
ATOM	1912	HB3	SER	X	124	42.071	47.910	30.577	0.00	0.00
ATOM	1913	OG	SER	X	124	43.008	48.902	29.156	0.00	0.00
ATOM	1914	HG	SER	X	124	43.407	49.496	29.795	0.00	0.00
ATOM	1915	C	SER	X	124	45.023	46.688	28.933	0.00	0.00
ATOM	1916	O	SER	X	124	44.880	45.646	28.368	0.00	0.00
ATOM	1917	N	SER	X	125	45.967	47.639	28.525	0.00	0.00
ATOM	1918	H	SER	X	125	46.075	48.473	29.083	0.00	0.00
ATOM	1919	CA	SER	X	125	46.834	47.551	27.385	0.00	0.00
ATOM	1920	HA	SER	X	125	46.368	46.948	26.605	0.00	0.00
ATOM	1921	CB	SER	X	125	47.098	48.992	26.841	0.00	0.00
ATOM	1922	HB2	SER	X	125	47.646	48.992	25.899	0.00	0.00
ATOM	1923	HB3	SER	X	125	46.175	49.571	26.789	0.00	0.00
ATOM	1924	OG	SER	X	125	47.801	49.783	27.801	0.00	0.00
ATOM	1925	HG	SER	X	125	48.749	49.644	27.739	0.00	0.00
ATOM	1926	C	SER	X	125	48.105	46.759	27.612	0.00	0.00
ATOM	1927	O	SER	X	125	48.854	46.641	26.655	0.00	0.00
ATOM	1928	N	LEU	X	126	48.221	46.059	28.723	0.00	0.00
ATOM	1929	H	LEU	X	126	47.398	45.921	29.291	0.00	0.00
ATOM	1930	CA	LEU	X	126	49.403	45.193	29.133	0.00	0.00
ATOM	1931	HA	LEU	X	126	50.310	45.794	29.067	0.00	0.00
ATOM	1932	CB	LEU	X	126	49.400	44.878	30.677	0.00	0.00
ATOM	1933	HB2	LEU	X	126	48.514	44.306	30.953	0.00	0.00
ATOM	1934	HB3	LEU	X	126	50.271	44.244	30.843	0.00	0.00
ATOM	1935	CG	LEU	X	126	49.478	46.242	31.447	0.00	0.00
ATOM	1936	HG	LEU	X	126	48.516	46.716	31.253	0.00	0.00
ATOM	1937	CD1	LEU	X	126	49.304	46.040	32.975	0.00	0.00
ATOM	1938	HD11	LEU	X	126	49.323	47.042	33.402	0.00	0.00
ATOM	1939	HD12	LEU	X	126	50.176	45.482	33.316	0.00	0.00
ATOM	1940	HD13	LEU	X	126	48.363	45.565	33.252	0.00	0.00
ATOM	1941	CD2	LEU	X	126	50.781	47.082	31.174	0.00	0.00

ATOM	1942	HD21	LEU	X	126	50.521	47.754	30.356	0.00	0.00
ATOM	1943	HD22	LEU	X	126	50.951	47.776	31.997	0.00	0.00
ATOM	1944	HD23	LEU	X	126	51.584	46.375	30.969	0.00	0.00
ATOM	1945	C	LEU	X	126	49.538	43.982	28.198	0.00	0.00
ATOM	1946	O	LEU	X	126	48.550	43.242	27.906	0.00	0.00
ATOM	1947	N	ASP	X	127	50.741	43.598	27.782	0.00	0.00
ATOM	1948	H	ASP	X	127	51.548	44.130	28.076	0.00	0.00
ATOM	1949	CA	ASP	X	127	50.933	42.710	26.545	0.00	0.00
ATOM	1950	HA	ASP	X	127	50.238	43.053	25.780	0.00	0.00
ATOM	1951	CB	ASP	X	127	52.413	42.949	26.032	0.00	0.00
ATOM	1952	HB2	ASP	X	127	52.655	44.011	25.983	0.00	0.00
ATOM	1953	HB3	ASP	X	127	53.137	42.454	26.680	0.00	0.00
ATOM	1954	CG	ASP	X	127	52.625	42.213	24.632	0.00	0.00
ATOM	1955	OD1	ASP	X	127	51.813	42.331	23.697	0.00	0.00
ATOM	1956	OD2	ASP	X	127	53.725	41.575	24.471	0.00	0.00
ATOM	1957	C	ASP	X	127	50.659	41.174	26.824	0.00	0.00
ATOM	1958	O	ASP	X	127	51.494	40.331	26.593	0.00	0.00
ATOM	1959	N	VAL	X	128	49.446	40.841	27.167	0.00	0.00
ATOM	1960	H	VAL	X	128	48.828	41.632	27.279	0.00	0.00
ATOM	1961	CA	VAL	X	128	48.795	39.553	27.433	0.00	0.00
ATOM	1962	HA	VAL	X	128	49.067	38.907	26.598	0.00	0.00
ATOM	1963	CB	VAL	X	128	49.307	38.883	28.734	0.00	0.00
ATOM	1964	HB	VAL	X	128	50.379	38.704	28.648	0.00	0.00
ATOM	1965	CG1	VAL	X	128	49.066	39.732	29.979	0.00	0.00
ATOM	1966	HG11	VAL	X	128	48.012	39.580	30.210	0.00	0.00
ATOM	1967	HG12	VAL	X	128	49.659	39.261	30.763	0.00	0.00
ATOM	1968	HG13	VAL	X	128	49.278	40.784	29.787	0.00	0.00
ATOM	1969	CG2	VAL	X	128	48.765	37.479	28.951	0.00	0.00
ATOM	1970	HG21	VAL	X	128	47.677	37.475	29.008	0.00	0.00
ATOM	1971	HG22	VAL	X	128	49.118	36.969	29.847	0.00	0.00
ATOM	1972	HG23	VAL	X	128	49.210	36.914	28.132	0.00	0.00
ATOM	1973	C	VAL	X	128	47.277	39.698	27.492	0.00	0.00
ATOM	1974	O	VAL	X	128	46.663	38.767	26.978	0.00	0.00
ATOM	1975	N	TYR	X	129	46.680	40.790	28.066	0.00	0.00
ATOM	1976	H	TYR	X	129	47.237	41.390	28.658	0.00	0.00
ATOM	1977	CA	TYR	X	129	45.205	40.961	28.264	0.00	0.00
ATOM	1978	HA	TYR	X	129	44.774	40.047	28.673	0.00	0.00
ATOM	1979	CB	TYR	X	129	45.008	42.001	29.345	0.00	0.00
ATOM	1980	HB2	TYR	X	129	45.278	42.944	28.869	0.00	0.00
ATOM	1981	HB3	TYR	X	129	43.951	42.048	29.608	0.00	0.00
ATOM	1982	CG	TYR	X	129	45.674	41.884	30.678	0.00	0.00
ATOM	1983	CD1	TYR	X	129	45.727	40.673	31.369	0.00	0.00
ATOM	1984	HD1	TYR	X	129	45.334	39.759	30.949	0.00	0.00
ATOM	1985	CE1	TYR	X	129	46.395	40.645	32.600	0.00	0.00
ATOM	1986	HE1	TYR	X	129	46.448	39.732	33.176	0.00	0.00
ATOM	1987	CZ	TYR	X	129	47.005	41.809	33.174	0.00	0.00
ATOM	1988	OH	TYR	X	129	47.566	41.793	34.411	0.00	0.00
ATOM	1989	HH	TYR	X	129	47.253	41.046	34.927	0.00	0.00
ATOM	1990	CE2	TYR	X	129	46.846	42.987	32.494	0.00	0.00
ATOM	1991	HE2	TYR	X	129	47.190	43.943	32.860	0.00	0.00
ATOM	1992	CD2	TYR	X	129	46.224	42.996	31.243	0.00	0.00
ATOM	1993	HD2	TYR	X	129	46.068	43.889	30.657	0.00	0.00
ATOM	1994	C	TYR	X	129	44.345	41.190	27.015	0.00	0.00
ATOM	1995	O	TYR	X	129	43.800	42.282	26.884	0.00	0.00
ATOM	1996	N	ASP	X	130	44.260	40.192	26.153	0.00	0.00
ATOM	1997	H	ASP	X	130	44.593	39.297	26.482	0.00	0.00
ATOM	1998	CA	ASP	X	130	43.451	40.288	24.889	0.00	0.00
ATOM	1999	HA	ASP	X	130	42.734	41.091	25.062	0.00	0.00
ATOM	2000	CB	ASP	X	130	44.402	40.649	23.716	0.00	0.00
ATOM	2001	HB2	ASP	X	130	45.009	41.529	23.926	0.00	0.00
ATOM	2002	HB3	ASP	X	130	45.105	39.826	23.587	0.00	0.00
ATOM	2003	CG	ASP	X	130	43.719	40.917	22.389	0.00	0.00
ATOM	2004	OD1	ASP	X	130	43.218	39.994	21.751	0.00	0.00
ATOM	2005	OD2	ASP	X	130	43.604	42.123	22.092	0.00	0.00
ATOM	2006	C	ASP	X	130	42.636	39.026	24.637	0.00	0.00
ATOM	2007	O	ASP	X	130	43.157	37.926	24.622	0.00	0.00
ATOM	2008	N	GLY	X	131	41.316	39.279	24.361	0.00	0.00

ATOM	2009	H	GLY	X	131	41.109	40.260	24.237	0.00	0.00
ATOM	2010	CA	GLY	X	131	40.351	38.221	24.327	0.00	0.00
ATOM	2011	HA2	GLY	X	131	40.620	37.489	25.088	0.00	0.00
ATOM	2012	HA3	GLY	X	131	39.319	38.554	24.432	0.00	0.00
ATOM	2013	C	GLY	X	131	40.254	37.446	23.042	0.00	0.00
ATOM	2014	O	GLY	X	131	39.571	36.433	23.017	0.00	0.00
ATOM	2015	N	ARG	X	132	40.812	37.928	21.890	0.00	0.00
ATOM	2016	H	ARG	X	132	41.293	38.811	21.984	0.00	0.00
ATOM	2017	CA	ARG	X	132	40.557	37.481	20.549	0.00	0.00
ATOM	2018	HA	ARG	X	132	39.519	37.808	20.489	0.00	0.00
ATOM	2019	CB	ARG	X	132	41.244	38.382	19.456	0.00	0.00
ATOM	2020	HB2	ARG	X	132	40.737	38.197	18.509	0.00	0.00
ATOM	2021	HB3	ARG	X	132	41.156	39.433	19.731	0.00	0.00
ATOM	2022	CG	ARG	X	132	42.656	37.911	19.190	0.00	0.00
ATOM	2023	HG2	ARG	X	132	43.192	37.822	20.135	0.00	0.00
ATOM	2024	HG3	ARG	X	132	42.775	36.928	18.733	0.00	0.00
ATOM	2025	CD	ARG	X	132	43.392	38.805	18.222	0.00	0.00
ATOM	2026	HD2	ARG	X	132	44.339	38.280	18.104	0.00	0.00
ATOM	2027	HD3	ARG	X	132	42.850	38.795	17.276	0.00	0.00
ATOM	2028	NE	ARG	X	132	43.675	40.075	18.847	0.00	0.00
ATOM	2029	HE	ARG	X	132	43.568	40.197	19.844	0.00	0.00
ATOM	2030	CZ	ARG	X	132	44.405	40.987	18.389	0.00	0.00
ATOM	2031	NH1	ARG	X	132	44.945	40.971	17.198	0.00	0.00
ATOM	2032	HH11	ARG	X	132	44.935	40.072	16.739	0.00	0.00
ATOM	2033	HH12	ARG	X	132	45.734	41.559	16.971	0.00	0.00
ATOM	2034	NH2	ARG	X	132	44.639	42.111	19.074	0.00	0.00
ATOM	2035	HH21	ARG	X	132	44.264	42.222	20.005	0.00	0.00
ATOM	2036	HH22	ARG	X	132	45.180	42.894	18.736	0.00	0.00
ATOM	2037	C	ARG	X	132	40.548	36.027	20.283	0.00	0.00
ATOM	2038	O	ARG	X	132	39.569	35.496	19.821	0.00	0.00
ATOM	2039	N	PHE	X	133	41.601	35.332	20.607	0.00	0.00
ATOM	2040	H	PHE	X	133	42.385	35.826	21.009	0.00	0.00
ATOM	2041	CA	PHE	X	133	41.813	33.898	20.371	0.00	0.00
ATOM	2042	HA	PHE	X	133	41.502	33.751	19.337	0.00	0.00
ATOM	2043	CB	PHE	X	133	43.200	33.350	20.566	0.00	0.00
ATOM	2044	HB2	PHE	X	133	43.509	33.294	21.610	0.00	0.00
ATOM	2045	HB3	PHE	X	133	43.267	32.319	20.220	0.00	0.00
ATOM	2046	CG	PHE	X	133	44.284	34.082	19.798	0.00	0.00
ATOM	2047	CD1	PHE	X	133	44.919	35.236	20.310	0.00	0.00
ATOM	2048	HD1	PHE	X	133	44.559	35.545	21.281	0.00	0.00
ATOM	2049	CE1	PHE	X	133	45.868	35.971	19.567	0.00	0.00
ATOM	2050	HE1	PHE	X	133	46.209	36.916	19.963	0.00	0.00
ATOM	2051	CZ	PHE	X	133	46.400	35.388	18.398	0.00	0.00
ATOM	2052	HZ	PHE	X	133	47.110	35.963	17.822	0.00	0.00
ATOM	2053	CE2	PHE	X	133	45.899	34.176	17.964	0.00	0.00
ATOM	2054	HE2	PHE	X	133	46.314	33.794	17.043	0.00	0.00
ATOM	2055	CD2	PHE	X	133	44.865	33.483	18.655	0.00	0.00
ATOM	2056	HD2	PHE	X	133	44.438	32.637	18.137	0.00	0.00
ATOM	2057	C	PHE	X	133	40.803	33.110	21.254	0.00	0.00
ATOM	2058	O	PHE	X	133	40.175	32.238	20.710	0.00	0.00
ATOM	2059	N	LEU	X	134	40.571	33.473	22.517	0.00	0.00
ATOM	2060	H	LEU	X	134	41.051	34.273	22.903	0.00	0.00
ATOM	2061	CA	LEU	X	134	39.615	32.806	23.419	0.00	0.00
ATOM	2062	HA	LEU	X	134	39.860	31.744	23.394	0.00	0.00
ATOM	2063	CB	LEU	X	134	39.685	33.287	24.807	0.00	0.00
ATOM	2064	HB2	LEU	X	134	40.697	33.056	25.138	0.00	0.00
ATOM	2065	HB3	LEU	X	134	39.584	34.371	24.859	0.00	0.00
ATOM	2066	CG	LEU	X	134	38.654	32.671	25.799	0.00	0.00
ATOM	2067	HG	LEU	X	134	37.646	32.900	25.454	0.00	0.00
ATOM	2068	CD1	LEU	X	134	38.574	31.151	25.893	0.00	0.00
ATOM	2069	HD11	LEU	X	134	39.377	30.729	26.498	0.00	0.00
ATOM	2070	HD12	LEU	X	134	38.646	30.615	24.947	0.00	0.00
ATOM	2071	HD13	LEU	X	134	37.586	30.926	26.294	0.00	0.00
ATOM	2072	CD2	LEU	X	134	38.797	33.250	27.189	0.00	0.00
ATOM	2073	HD21	LEU	X	134	37.844	33.179	27.714	0.00	0.00
ATOM	2074	HD22	LEU	X	134	39.374	32.538	27.779	0.00	0.00
ATOM	2075	HD23	LEU	X	134	39.281	34.226	27.240	0.00	0.00

ATOM	2076	C	LEU	X	134	38.157	32.963	22.939	0.00	0.00
ATOM	2077	O	LEU	X	134	37.411	31.938	22.827	0.00	0.00
ATOM	2078	N	VAL	X	135	37.868	34.193	22.507	0.00	0.00
ATOM	2079	H	VAL	X	135	38.468	34.952	22.796	0.00	0.00
ATOM	2080	CA	VAL	X	135	36.576	34.541	21.883	0.00	0.00
ATOM	2081	HA	VAL	X	135	35.849	34.195	22.617	0.00	0.00
ATOM	2082	CB	VAL	X	135	36.426	36.074	21.758	0.00	0.00
ATOM	2083	HB	VAL	X	135	37.400	36.512	21.541	0.00	0.00
ATOM	2084	CG1	VAL	X	135	35.397	36.582	20.718	0.00	0.00
ATOM	2085	HG11	VAL	X	135	34.474	36.004	20.672	0.00	0.00
ATOM	2086	HG12	VAL	X	135	35.284	37.638	20.960	0.00	0.00
ATOM	2087	HG13	VAL	X	135	35.860	36.526	19.732	0.00	0.00
ATOM	2088	CG2	VAL	X	135	36.067	36.557	23.154	0.00	0.00
ATOM	2089	HG21	VAL	X	135	35.005	36.309	23.165	0.00	0.00
ATOM	2090	HG22	VAL	X	135	36.049	37.644	23.232	0.00	0.00
ATOM	2091	HG23	VAL	X	135	36.608	36.089	23.976	0.00	0.00
ATOM	2092	C	VAL	X	135	36.322	33.742	20.640	0.00	0.00
ATOM	2093	O	VAL	X	135	35.145	33.489	20.288	0.00	0.00
ATOM	2094	N	GLN	X	136	37.385	33.227	19.951	0.00	0.00
ATOM	2095	H	GLN	X	136	38.321	33.559	20.135	0.00	0.00
ATOM	2096	CA	GLN	X	136	37.226	32.327	18.814	0.00	0.00
ATOM	2097	HA	GLN	X	136	36.253	32.481	18.347	0.00	0.00
ATOM	2098	CB	GLN	X	136	38.386	32.641	17.905	0.00	0.00
ATOM	2099	HB2	GLN	X	136	38.670	33.688	17.798	0.00	0.00
ATOM	2100	HB3	GLN	X	136	39.193	32.074	18.370	0.00	0.00
ATOM	2101	CG	GLN	X	136	38.036	32.289	16.418	0.00	0.00
ATOM	2102	HG2	GLN	X	136	37.159	32.822	16.052	0.00	0.00
ATOM	2103	HG3	GLN	X	136	38.841	32.623	15.765	0.00	0.00
ATOM	2104	CD	GLN	X	136	37.932	30.779	16.184	0.00	0.00
ATOM	2105	OE1	GLN	X	136	38.721	29.968	16.550	0.00	0.00
ATOM	2106	NE2	GLN	X	136	36.859	30.347	15.514	0.00	0.00
ATOM	2107	HE21	GLN	X	136	36.820	29.381	15.222	0.00	0.00
ATOM	2108	HE22	GLN	X	136	36.178	31.007	15.166	0.00	0.00
ATOM	2109	C	GLN	X	136	37.166	30.808	19.280	0.00	0.00
ATOM	2110	O	GLN	X	136	36.501	30.057	18.637	0.00	0.00
ATOM	2111	N	ALA	X	137	37.930	30.439	20.274	0.00	0.00
ATOM	2112	H	ALA	X	137	38.429	31.173	20.755	0.00	0.00
ATOM	2113	CA	ALA	X	137	38.027	29.044	20.674	0.00	0.00
ATOM	2114	HA	ALA	X	137	38.107	28.394	19.802	0.00	0.00
ATOM	2115	CB	ALA	X	137	39.273	28.868	21.534	0.00	0.00
ATOM	2116	HB1	ALA	X	137	40.150	28.906	20.887	0.00	0.00
ATOM	2117	HB2	ALA	X	137	39.354	27.885	21.997	0.00	0.00
ATOM	2118	HB3	ALA	X	137	39.170	29.676	22.259	0.00	0.00
ATOM	2119	C	ALA	X	137	36.835	28.517	21.452	0.00	0.00
ATOM	2120	O	ALA	X	137	36.258	27.443	21.148	0.00	0.00
ATOM	2121	N	GLU	X	138	36.219	29.350	22.304	0.00	0.00
ATOM	2122	H	GLU	X	138	36.694	30.231	22.443	0.00	0.00
ATOM	2123	CA	GLU	X	138	35.134	28.980	23.151	0.00	0.00
ATOM	2124	HA	GLU	X	138	34.872	27.926	23.053	0.00	0.00
ATOM	2125	CB	GLU	X	138	35.557	29.180	24.640	0.00	0.00
ATOM	2126	HB2	GLU	X	138	35.966	30.188	24.691	0.00	0.00
ATOM	2127	HB3	GLU	X	138	34.711	29.187	25.327	0.00	0.00
ATOM	2128	CG	GLU	X	138	36.586	28.097	25.017	0.00	0.00
ATOM	2129	HG2	GLU	X	138	37.532	28.079	24.475	0.00	0.00
ATOM	2130	HG3	GLU	X	138	36.994	28.275	26.012	0.00	0.00
ATOM	2131	CD	GLU	X	138	35.960	26.768	25.061	0.00	0.00
ATOM	2132	OE1	GLU	X	138	34.844	26.501	25.567	0.00	0.00
ATOM	2133	OE2	GLU	X	138	36.547	25.807	24.496	0.00	0.00
ATOM	2134	C	GLU	X	138	33.799	29.797	22.885	0.00	0.00
ATOM	2135	O	GLU	X	138	32.826	29.434	23.518	0.00	0.00
ATOM	2136	N	ARG	X	139	33.821	30.830	22.070	0.00	0.00
ATOM	2137	H	ARG	X	139	34.715	31.184	21.762	0.00	0.00
ATOM	2138	CA	ARG	X	139	32.640	31.382	21.486	0.00	0.00
ATOM	2139	HA	ARG	X	139	33.053	32.169	20.855	0.00	0.00
ATOM	2140	CB	ARG	X	139	31.878	30.329	20.676	0.00	0.00
ATOM	2141	HB2	ARG	X	139	31.430	29.551	21.293	0.00	0.00
ATOM	2142	HB3	ARG	X	139	31.055	30.835	20.171	0.00	0.00

ATOM	2143	CG	ARG	X	139	32.744	29.600	19.671	0.00	0.00
ATOM	2144	HG2	ARG	X	139	33.599	30.209	19.376	0.00	0.00
ATOM	2145	HG3	ARG	X	139	33.088	28.756	20.268	0.00	0.00
ATOM	2146	CD	ARG	X	139	31.860	29.175	18.424	0.00	0.00
ATOM	2147	HD2	ARG	X	139	32.356	28.526	17.702	0.00	0.00
ATOM	2148	HD3	ARG	X	139	31.010	28.591	18.778	0.00	0.00
ATOM	2149	NE	ARG	X	139	31.445	30.410	17.726	0.00	0.00
ATOM	2150	HE	ARG	X	139	30.464	30.603	17.867	0.00	0.00
ATOM	2151	CZ	ARG	X	139	32.164	31.147	16.859	0.00	0.00
ATOM	2152	NH1	ARG	X	139	33.421	30.807	16.466	0.00	0.00
ATOM	2153	HH11	ARG	X	139	33.991	30.021	16.746	0.00	0.00
ATOM	2154	HH12	ARG	X	139	33.725	31.339	15.663	0.00	0.00
ATOM	2155	NH2	ARG	X	139	31.553	32.120	16.270	0.00	0.00
ATOM	2156	HH21	ARG	X	139	30.702	32.426	16.721	0.00	0.00
ATOM	2157	HH22	ARG	X	139	31.863	32.591	15.432	0.00	0.00
ATOM	2158	C	ARG	X	139	31.705	32.104	22.463	0.00	0.00
ATOM	2159	O	ARG	X	139	30.553	32.331	22.207	0.00	0.00
ATOM	2160	N	THR	X	140	32.278	32.577	23.512	0.00	0.00
ATOM	2161	H	THR	X	140	33.287	32.524	23.506	0.00	0.00
ATOM	2162	CA	THR	X	140	31.717	33.410	24.556	0.00	0.00
ATOM	2163	HA	THR	X	140	30.691	33.087	24.730	0.00	0.00
ATOM	2164	CB	THR	X	140	32.540	33.306	25.847	0.00	0.00
ATOM	2165	HB	THR	X	140	32.118	34.017	26.557	0.00	0.00
ATOM	2166	CG2	THR	X	140	32.425	31.902	26.313	0.00	0.00
ATOM	2167	HG21	THR	X	140	31.458	31.469	26.059	0.00	0.00
ATOM	2168	HG22	THR	X	140	32.585	31.981	27.389	0.00	0.00
ATOM	2169	HG23	THR	X	140	33.291	31.346	25.953	0.00	0.00
ATOM	2170	OG1	THR	X	140	33.860	33.744	25.711	0.00	0.00
ATOM	2171	HG1	THR	X	140	33.735	34.689	25.605	0.00	0.00
ATOM	2172	C	THR	X	140	31.595	34.871	24.099	0.00	0.00
ATOM	2173	O	THR	X	140	32.053	35.213	23.009	0.00	0.00
ATOM	2174	N	VAL	X	141	31.273	35.779	24.965	0.00	0.00
ATOM	2175	H	VAL	X	141	30.812	35.419	25.788	0.00	0.00
ATOM	2176	CA	VAL	X	141	31.597	37.195	24.870	0.00	0.00
ATOM	2177	HA	VAL	X	141	31.950	37.447	23.870	0.00	0.00
ATOM	2178	CB	VAL	X	141	30.317	38.137	25.076	0.00	0.00
ATOM	2179	HB	VAL	X	141	29.712	37.844	25.935	0.00	0.00
ATOM	2180	CG1	VAL	X	141	30.692	39.546	25.375	0.00	0.00
ATOM	2181	HG11	VAL	X	141	31.290	39.966	24.566	0.00	0.00
ATOM	2182	HG12	VAL	X	141	29.799	40.169	25.428	0.00	0.00
ATOM	2183	HG13	VAL	X	141	31.323	39.578	26.264	0.00	0.00
ATOM	2184	CG2	VAL	X	141	29.480	38.134	23.765	0.00	0.00
ATOM	2185	HG21	VAL	X	141	28.621	38.802	23.812	0.00	0.00
ATOM	2186	HG22	VAL	X	141	29.286	37.093	23.504	0.00	0.00
ATOM	2187	HG23	VAL	X	141	30.100	38.546	22.969	0.00	0.00
ATOM	2188	C	VAL	X	141	32.706	37.454	25.922	0.00	0.00
ATOM	2189	O	VAL	X	141	32.877	36.661	26.829	0.00	0.00
ATOM	2190	N	LEU	X	142	33.632	38.375	25.681	0.00	0.00
ATOM	2191	H	LEU	X	142	33.564	38.894	24.817	0.00	0.00
ATOM	2192	CA	LEU	X	142	34.719	38.622	26.660	0.00	0.00
ATOM	2193	HA	LEU	X	142	34.392	38.220	27.619	0.00	0.00
ATOM	2194	CB	LEU	X	142	36.035	37.878	26.350	0.00	0.00
ATOM	2195	HB2	LEU	X	142	35.772	36.820	26.364	0.00	0.00
ATOM	2196	HB3	LEU	X	142	36.531	38.072	25.399	0.00	0.00
ATOM	2197	CG	LEU	X	142	37.167	37.902	27.358	0.00	0.00
ATOM	2198	HG	LEU	X	142	36.709	37.777	28.339	0.00	0.00
ATOM	2199	CD1	LEU	X	142	38.187	36.741	27.181	0.00	0.00
ATOM	2200	HD11	LEU	X	142	38.907	36.757	27.998	0.00	0.00
ATOM	2201	HD12	LEU	X	142	38.759	36.893	26.265	0.00	0.00
ATOM	2202	HD13	LEU	X	142	37.756	35.741	27.143	0.00	0.00
ATOM	2203	CD2	LEU	X	142	37.968	39.201	27.408	0.00	0.00
ATOM	2204	HD21	LEU	X	142	37.429	39.971	27.961	0.00	0.00
ATOM	2205	HD22	LEU	X	142	38.860	39.095	28.024	0.00	0.00
ATOM	2206	HD23	LEU	X	142	38.200	39.481	26.380	0.00	0.00
ATOM	2207	C	LEU	X	142	34.970	40.080	26.809	0.00	0.00
ATOM	2208	O	LEU	X	142	35.109	40.760	25.831	0.00	0.00
ATOM	2209	N	VAL	X	143	34.877	40.640	27.996	0.00	0.00

ATOM	2210	H	VAL	X	143	34.855	39.994	28.773	0.00	0.00
ATOM	2211	CA	VAL	X	143	35.171	42.082	28.271	0.00	0.00
ATOM	2212	HA	VAL	X	143	35.278	42.509	27.273	0.00	0.00
ATOM	2213	CB	VAL	X	143	33.772	42.530	28.773	0.00	0.00
ATOM	2214	HB	VAL	X	143	33.525	42.015	29.702	0.00	0.00
ATOM	2215	CG1	VAL	X	143	33.693	44.029	29.076	0.00	0.00
ATOM	2216	HG11	VAL	X	143	34.459	44.159	29.841	0.00	0.00
ATOM	2217	HG12	VAL	X	143	33.982	44.491	28.132	0.00	0.00
ATOM	2218	HG13	VAL	X	143	32.684	44.172	29.463	0.00	0.00
ATOM	2219	CG2	VAL	X	143	32.523	42.142	27.927	0.00	0.00
ATOM	2220	HG21	VAL	X	143	31.659	42.632	28.377	0.00	0.00
ATOM	2221	HG22	VAL	X	143	32.359	41.065	27.939	0.00	0.00
ATOM	2222	HG23	VAL	X	143	32.686	42.512	26.915	0.00	0.00
ATOM	2223	C	VAL	X	143	36.342	42.292	29.231	0.00	0.00
ATOM	2224	O	VAL	X	143	36.695	41.328	29.908	0.00	0.00
ATOM	2225	N	SER	X	144	36.793	43.563	29.292	0.00	0.00
ATOM	2226	H	SER	X	144	36.482	44.199	28.572	0.00	0.00
ATOM	2227	CA	SER	X	144	37.784	44.055	30.211	0.00	0.00
ATOM	2228	HA	SER	X	144	37.581	43.643	31.200	0.00	0.00
ATOM	2229	CB	SER	X	144	39.253	43.697	29.844	0.00	0.00
ATOM	2230	HB2	SER	X	144	39.867	43.613	30.740	0.00	0.00
ATOM	2231	HB3	SER	X	144	39.260	42.661	29.506	0.00	0.00
ATOM	2232	OG	SER	X	144	39.838	44.559	28.935	0.00	0.00
ATOM	2233	HG	SER	X	144	40.686	44.235	28.621	0.00	0.00
ATOM	2234	C	SER	X	144	37.737	45.579	30.455	0.00	0.00
ATOM	2235	O	SER	X	144	37.408	46.388	29.595	0.00	0.00
ATOM	2236	N	MET	X	145	38.114	46.006	31.661	0.00	0.00
ATOM	2237	H	MET	X	145	38.483	45.378	32.362	0.00	0.00
ATOM	2238	CA	MET	X	145	37.905	47.369	32.172	0.00	0.00
ATOM	2239	HA	MET	X	145	37.545	48.012	31.369	0.00	0.00
ATOM	2240	CB	MET	X	145	36.806	47.317	33.215	0.00	0.00
ATOM	2241	HB2	MET	X	145	36.508	48.272	33.647	0.00	0.00
ATOM	2242	HB3	MET	X	145	35.916	46.854	32.789	0.00	0.00
ATOM	2243	CG	MET	X	145	37.232	46.539	34.406	0.00	0.00
ATOM	2244	HG2	MET	X	145	37.409	45.503	34.115	0.00	0.00
ATOM	2245	HG3	MET	X	145	38.135	47.006	34.799	0.00	0.00
ATOM	2246	SD	MET	X	145	35.992	46.627	35.733	0.00	0.00
ATOM	2247	CE	MET	X	145	34.546	45.962	34.942	0.00	0.00
ATOM	2248	HE1	MET	X	145	34.198	46.557	34.097	0.00	0.00
ATOM	2249	HE2	MET	X	145	34.634	44.881	34.831	0.00	0.00
ATOM	2250	HE3	MET	X	145	33.687	46.104	35.598	0.00	0.00
ATOM	2251	C	MET	X	145	39.230	47.918	32.584	0.00	0.00
ATOM	2252	O	MET	X	145	40.122	47.264	33.183	0.00	0.00
ATOM	2253	N	ASN	X	146	39.368	49.211	32.361	0.00	0.00
ATOM	2254	H	ASN	X	146	38.682	49.779	31.885	0.00	0.00
ATOM	2255	CA	ASN	X	146	40.475	50.054	32.828	0.00	0.00
ATOM	2256	HA	ASN	X	146	41.320	49.437	33.134	0.00	0.00
ATOM	2257	CB	ASN	X	146	41.024	50.898	31.633	0.00	0.00
ATOM	2258	HB2	ASN	X	146	40.986	50.320	30.710	0.00	0.00
ATOM	2259	HB3	ASN	X	146	40.281	51.664	31.413	0.00	0.00
ATOM	2260	CG	ASN	X	146	42.529	51.320	31.771	0.00	0.00
ATOM	2261	OD1	ASN	X	146	43.497	50.583	31.452	0.00	0.00
ATOM	2262	ND2	ASN	X	146	42.818	52.448	32.436	0.00	0.00
ATOM	2263	HD21	ASN	X	146	43.790	52.688	32.571	0.00	0.00
ATOM	2264	HD22	ASN	X	146	42.072	53.118	32.552	0.00	0.00
ATOM	2265	C	ASN	X	146	39.943	50.921	33.968	0.00	0.00
ATOM	2266	O	ASN	X	146	38.835	51.462	33.816	0.00	0.00
ATOM	2267	N	TYR	X	147	40.804	51.026	35.003	0.00	0.00
ATOM	2268	H	TYR	X	147	41.703	50.578	34.897	0.00	0.00
ATOM	2269	CA	TYR	X	147	40.499	51.741	36.223	0.00	0.00
ATOM	2270	HA	TYR	X	147	39.827	52.558	35.958	0.00	0.00
ATOM	2271	CB	TYR	X	147	39.683	50.787	37.102	0.00	0.00
ATOM	2272	HB2	TYR	X	147	39.504	51.230	38.082	0.00	0.00
ATOM	2273	HB3	TYR	X	147	38.786	50.408	36.613	0.00	0.00
ATOM	2274	CG	TYR	X	147	40.373	49.419	37.399	0.00	0.00
ATOM	2275	CD1	TYR	X	147	40.063	48.321	36.640	0.00	0.00
ATOM	2276	HD1	TYR	X	147	39.454	48.373	35.749	0.00	0.00

ATOM	2277	CE1	TYR	X	147	40.806	47.146	36.785	0.00	0.00
ATOM	2278	HE1	TYR	X	147	40.815	46.407	35.998	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.734	46.936	37.820	0.00	0.00
ATOM	2280	OH	TYR	X	147	42.332	45.695	37.852	0.00	0.00
ATOM	2281	HH	TYR	X	147	43.051	45.652	38.487	0.00	0.00
ATOM	2282	CE2	TYR	X	147	41.954	48.087	38.631	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.668	48.004	39.438	0.00	0.00
ATOM	2284	CD2	TYR	X	147	41.387	49.325	38.398	0.00	0.00
ATOM	2285	HD2	TYR	X	147	41.605	50.107	39.110	0.00	0.00
ATOM	2286	C	TYR	X	147	41.755	52.221	37.017	0.00	0.00
ATOM	2287	O	TYR	X	147	42.892	51.999	36.636	0.00	0.00
ATOM	2288	N	ARG	X	148	41.451	53.048	38.094	0.00	0.00
ATOM	2289	H	ARG	X	148	40.482	53.300	38.224	0.00	0.00
ATOM	2290	CA	ARG	X	148	42.558	53.822	38.705	0.00	0.00
ATOM	2291	HA	ARG	X	148	43.124	54.216	37.860	0.00	0.00
ATOM	2292	CB	ARG	X	148	41.941	55.076	39.402	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.076	54.727	39.967	0.00	0.00
ATOM	2294	HB3	ARG	X	148	42.738	55.577	39.953	0.00	0.00
ATOM	2295	CG	ARG	X	148	41.374	56.041	38.302	0.00	0.00
ATOM	2296	HG2	ARG	X	148	42.186	56.337	37.638	0.00	0.00
ATOM	2297	HG3	ARG	X	148	40.631	55.557	37.668	0.00	0.00
ATOM	2298	CD	ARG	X	148	40.698	57.295	38.844	0.00	0.00
ATOM	2299	HD2	ARG	X	148	41.403	57.682	39.581	0.00	0.00
ATOM	2300	HD3	ARG	X	148	40.616	58.030	38.044	0.00	0.00
ATOM	2301	NE	ARG	X	148	39.353	57.023	39.305	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.039	56.105	39.024	0.00	0.00
ATOM	2303	CZ	ARG	X	148	38.506	57.769	39.950	0.00	0.00
ATOM	2304	NH1	ARG	X	148	38.933	58.991	40.382	0.00	0.00
ATOM	2305	HH11	ARG	X	148	39.907	59.255	40.353	0.00	0.00
ATOM	2306	HH12	ARG	X	148	38.238	59.491	40.920	0.00	0.00
ATOM	2307	NH2	ARG	X	148	37.304	57.418	40.308	0.00	0.00
ATOM	2308	HH21	ARG	X	148	36.994	56.534	39.932	0.00	0.00
ATOM	2309	HH22	ARG	X	148	36.638	58.026	40.762	0.00	0.00
ATOM	2310	C	ARG	X	148	43.383	52.945	39.621	0.00	0.00
ATOM	2311	O	ARG	X	148	42.931	52.035	40.347	0.00	0.00
ATOM	2312	N	VAL	X	149	44.662	53.263	39.620	0.00	0.00
ATOM	2313	H	VAL	X	149	44.959	54.010	39.009	0.00	0.00
ATOM	2314	CA	VAL	X	149	45.641	52.640	40.493	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.134	52.112	41.301	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.487	51.538	39.735	0.00	0.00
ATOM	2317	HB	VAL	X	149	47.277	51.279	40.441	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.584	50.354	39.362	0.00	0.00
ATOM	2319	HG11	VAL	X	149	44.783	50.802	38.774	0.00	0.00
ATOM	2320	HG12	VAL	X	149	46.181	49.572	38.891	0.00	0.00
ATOM	2321	HG13	VAL	X	149	45.214	49.996	40.323	0.00	0.00
ATOM	2322	CG2	VAL	X	149	47.274	52.158	38.583	0.00	0.00
ATOM	2323	HG21	VAL	X	149	48.012	52.784	39.084	0.00	0.00
ATOM	2324	HG22	VAL	X	149	46.572	52.587	37.869	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.831	51.367	38.082	0.00	0.00
ATOM	2326	C	VAL	X	149	46.617	53.587	41.171	0.00	0.00
ATOM	2327	O	VAL	X	149	46.992	54.652	40.628	0.00	0.00
ATOM	2328	N	GLY	X	150	47.107	53.162	42.319	0.00	0.00
ATOM	2329	H	GLY	X	150	46.814	52.221	42.542	0.00	0.00
ATOM	2330	CA	GLY	X	150	47.994	53.859	43.215	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.654	53.289	43.870	0.00	0.00
ATOM	2332	HA3	GLY	X	150	48.667	54.483	42.627	0.00	0.00
ATOM	2333	C	GLY	X	150	47.123	54.877	44.063	0.00	0.00
ATOM	2334	O	GLY	X	150	45.973	54.535	44.430	0.00	0.00
ATOM	2335	N	ALA	X	151	47.662	56.057	44.411	0.00	0.00
ATOM	2336	H	ALA	X	151	48.485	56.383	43.927	0.00	0.00
ATOM	2337	CA	ALA	X	151	46.888	57.070	45.144	0.00	0.00
ATOM	2338	HA	ALA	X	151	46.455	56.600	46.027	0.00	0.00
ATOM	2339	CB	ALA	X	151	47.707	58.255	45.639	0.00	0.00
ATOM	2340	HB1	ALA	X	151	46.949	59.038	45.675	0.00	0.00
ATOM	2341	HB2	ALA	X	151	48.552	58.434	44.973	0.00	0.00
ATOM	2342	HB3	ALA	X	151	47.973	58.041	46.674	0.00	0.00
ATOM	2343	C	ALA	X	151	45.676	57.582	44.308	0.00	0.00

ATOM	2344	O	ALA	X	151	44.620	57.825	44.876	0.00	0.00
ATOM	2345	N	PHE	X	152	45.738	57.742	42.991	0.00	0.00
ATOM	2346	H	PHE	X	152	46.616	57.446	42.588	0.00	0.00
ATOM	2347	CA	PHE	X	152	44.547	58.068	42.129	0.00	0.00
ATOM	2348	HA	PHE	X	152	44.267	59.058	42.490	0.00	0.00
ATOM	2349	CB	PHE	X	152	45.010	58.205	40.618	0.00	0.00
ATOM	2350	HB2	PHE	X	152	45.982	58.697	40.578	0.00	0.00
ATOM	2351	HB3	PHE	X	152	45.169	57.209	40.205	0.00	0.00
ATOM	2352	CG	PHE	X	152	44.131	58.843	39.607	0.00	0.00
ATOM	2353	CD1	PHE	X	152	44.253	58.387	38.264	0.00	0.00
ATOM	2354	HD1	PHE	X	152	45.149	57.847	37.998	0.00	0.00
ATOM	2355	CE1	PHE	X	152	43.441	58.965	37.288	0.00	0.00
ATOM	2356	HE1	PHE	X	152	43.571	58.758	36.236	0.00	0.00
ATOM	2357	CZ	PHE	X	152	42.423	59.921	37.603	0.00	0.00
ATOM	2358	HZ	PHE	X	152	41.807	60.444	36.886	0.00	0.00
ATOM	2359	CE2	PHE	X	152	42.312	60.355	38.961	0.00	0.00
ATOM	2360	HE2	PHE	X	152	41.639	61.174	39.168	0.00	0.00
ATOM	2361	CD2	PHE	X	152	43.123	59.760	39.943	0.00	0.00
ATOM	2362	HD2	PHE	X	152	43.011	60.034	40.982	0.00	0.00
ATOM	2363	C	PHE	X	152	43.340	57.095	42.389	0.00	0.00
ATOM	2364	O	PHE	X	152	42.148	57.532	42.479	0.00	0.00
ATOM	2365	N	GLY	X	153	43.579	55.747	42.512	0.00	0.00
ATOM	2366	H	GLY	X	153	44.518	55.382	42.443	0.00	0.00
ATOM	2367	CA	GLY	X	153	42.539	54.747	42.784	0.00	0.00
ATOM	2368	HA2	GLY	X	153	41.570	54.893	42.307	0.00	0.00
ATOM	2369	HA3	GLY	X	153	42.885	53.764	42.464	0.00	0.00
ATOM	2370	C	GLY	X	153	42.232	54.639	44.243	0.00	0.00
ATOM	2371	O	GLY	X	153	41.090	54.262	44.543	0.00	0.00
ATOM	2372	N	PHE	X	154	43.150	54.764	45.181	0.00	0.00
ATOM	2373	H	PHE	X	154	44.086	54.964	44.856	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.125	54.117	46.561	0.00	0.00
ATOM	2375	HA	PHE	X	154	42.092	53.953	46.867	0.00	0.00
ATOM	2376	CB	PHE	X	154	43.830	52.715	46.551	0.00	0.00
ATOM	2377	HB2	PHE	X	154	44.913	52.822	46.504	0.00	0.00
ATOM	2378	HB3	PHE	X	154	43.642	52.164	47.473	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.354	51.757	45.499	0.00	0.00
ATOM	2380	CD1	PHE	X	154	44.166	51.466	44.391	0.00	0.00
ATOM	2381	HD1	PHE	X	154	45.182	51.817	44.286	0.00	0.00
ATOM	2382	CE1	PHE	X	154	43.534	50.735	43.360	0.00	0.00
ATOM	2383	HE1	PHE	X	154	44.081	50.514	42.455	0.00	0.00
ATOM	2384	CZ	PHE	X	154	42.165	50.411	43.323	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.747	49.857	42.495	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.410	50.713	44.436	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.349	50.561	44.565	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.009	51.410	45.543	0.00	0.00
ATOM	2389	HD2	PHE	X	154	41.373	51.861	46.291	0.00	0.00
ATOM	2390	C	PHE	X	154	43.572	55.066	47.695	0.00	0.00
ATOM	2391	O	PHE	X	154	43.943	54.520	48.751	0.00	0.00
ATOM	2392	N	LEU	X	155	43.566	56.413	47.473	0.00	0.00
ATOM	2393	H	LEU	X	155	43.259	56.788	46.587	0.00	0.00
ATOM	2394	CA	LEU	X	155	43.783	57.329	48.543	0.00	0.00
ATOM	2395	HA	LEU	X	155	44.643	57.130	49.183	0.00	0.00
ATOM	2396	CB	LEU	X	155	44.112	58.636	47.975	0.00	0.00
ATOM	2397	HB2	LEU	X	155	45.069	58.437	47.493	0.00	0.00
ATOM	2398	HB3	LEU	X	155	43.319	58.881	47.269	0.00	0.00
ATOM	2399	CG	LEU	X	155	44.419	59.844	48.878	0.00	0.00
ATOM	2400	HG	LEU	X	155	43.488	60.248	49.276	0.00	0.00
ATOM	2401	CD1	LEU	X	155	45.395	59.562	49.970	0.00	0.00
ATOM	2402	HD11	LEU	X	155	46.373	59.273	49.585	0.00	0.00
ATOM	2403	HD12	LEU	X	155	45.080	58.867	50.748	0.00	0.00
ATOM	2404	HD13	LEU	X	155	45.493	60.462	50.577	0.00	0.00
ATOM	2405	CD2	LEU	X	155	44.952	61.063	48.201	0.00	0.00
ATOM	2406	HD21	LEU	X	155	44.192	61.603	47.636	0.00	0.00
ATOM	2407	HD22	LEU	X	155	45.387	61.714	48.959	0.00	0.00
ATOM	2408	HD23	LEU	X	155	45.776	60.777	47.546	0.00	0.00
ATOM	2409	C	LEU	X	155	42.614	57.449	49.501	0.00	0.00
ATOM	2410	O	LEU	X	155	41.568	57.810	49.054	0.00	0.00

ATOM	2411	N	ALA	X	156	42.725	57.124	50.769	0.00	0.00
ATOM	2412	H	ALA	X	156	43.637	56.945	51.164	0.00	0.00
ATOM	2413	CA	ALA	X	156	41.771	57.283	51.843	0.00	0.00
ATOM	2414	HA	ALA	X	156	40.798	57.678	51.553	0.00	0.00
ATOM	2415	CB	ALA	X	156	41.696	55.838	52.417	0.00	0.00
ATOM	2416	HB1	ALA	X	156	42.635	55.551	52.889	0.00	0.00
ATOM	2417	HB2	ALA	X	156	41.448	55.058	51.697	0.00	0.00
ATOM	2418	HB3	ALA	X	156	40.824	55.795	53.070	0.00	0.00
ATOM	2419	C	ALA	X	156	42.214	58.172	53.036	0.00	0.00
ATOM	2420	O	ALA	X	156	43.359	58.092	53.455	0.00	0.00
ATOM	2421	N	LEU	X	157	41.395	59.146	53.537	0.00	0.00
ATOM	2422	H	LEU	X	157	40.450	59.244	53.193	0.00	0.00
ATOM	2423	CA	LEU	X	157	41.805	60.117	54.528	0.00	0.00
ATOM	2424	HA	LEU	X	157	42.714	59.789	55.033	0.00	0.00
ATOM	2425	CB	LEU	X	157	42.100	61.449	53.869	0.00	0.00
ATOM	2426	HB2	LEU	X	157	41.252	61.584	53.197	0.00	0.00
ATOM	2427	HB3	LEU	X	157	42.156	62.259	54.596	0.00	0.00
ATOM	2428	CG	LEU	X	157	43.372	61.599	53.019	0.00	0.00
ATOM	2429	HG	LEU	X	157	43.288	60.881	52.203	0.00	0.00
ATOM	2430	CD1	LEU	X	157	43.201	62.911	52.297	0.00	0.00
ATOM	2431	HD11	LEU	X	157	43.834	63.018	51.416	0.00	0.00
ATOM	2432	HD12	LEU	X	157	43.558	63.686	52.975	0.00	0.00
ATOM	2433	HD13	LEU	X	157	42.192	63.168	51.971	0.00	0.00
ATOM	2434	CD2	LEU	X	157	44.671	61.397	53.759	0.00	0.00
ATOM	2435	HD21	LEU	X	157	44.850	60.372	54.084	0.00	0.00
ATOM	2436	HD22	LEU	X	157	45.540	61.630	53.143	0.00	0.00
ATOM	2437	HD23	LEU	X	157	44.756	62.098	54.589	0.00	0.00
ATOM	2438	C	LEU	X	157	40.622	60.227	55.501	0.00	0.00
ATOM	2439	O	LEU	X	157	39.492	60.190	55.047	0.00	0.00
ATOM	2440	N	PRO	X	158	40.933	60.475	56.786	0.00	0.00
ATOM	2441	CD	PRO	X	158	42.214	60.412	57.477	0.00	0.00
ATOM	2442	HD2	PRO	X	158	42.989	61.073	57.089	0.00	0.00
ATOM	2443	HD3	PRO	X	158	42.589	59.409	57.273	0.00	0.00
ATOM	2444	CG	PRO	X	158	41.982	60.779	58.969	0.00	0.00
ATOM	2445	HG2	PRO	X	158	42.090	61.862	58.927	0.00	0.00
ATOM	2446	HG3	PRO	X	158	42.565	60.211	59.694	0.00	0.00
ATOM	2447	CB	PRO	X	158	40.516	60.397	59.147	0.00	0.00
ATOM	2448	HB2	PRO	X	158	40.053	61.085	59.855	0.00	0.00
ATOM	2449	HB3	PRO	X	158	40.542	59.358	59.476	0.00	0.00
ATOM	2450	CA	PRO	X	158	39.886	60.569	57.794	0.00	0.00
ATOM	2451	HA	PRO	X	158	39.111	59.813	57.668	0.00	0.00
ATOM	2452	C	PRO	X	158	39.166	61.905	57.607	0.00	0.00
ATOM	2453	O	PRO	X	158	39.603	62.756	56.914	0.00	0.00
ATOM	2454	N	GLY	X	159	38.142	62.224	58.501	0.00	0.00
ATOM	2455	H	GLY	X	159	37.859	61.550	59.199	0.00	0.00
ATOM	2456	CA	GLY	X	159	37.671	63.576	58.727	0.00	0.00
ATOM	2457	HA2	GLY	X	159	37.094	63.552	59.651	0.00	0.00
ATOM	2458	HA3	GLY	X	159	38.575	64.183	58.783	0.00	0.00
ATOM	2459	C	GLY	X	159	36.704	64.176	57.651	0.00	0.00
ATOM	2460	O	GLY	X	159	36.296	65.300	57.861	0.00	0.00
ATOM	2461	N	SER	X	160	36.195	63.364	56.744	0.00	0.00
ATOM	2462	H	SER	X	160	36.474	62.394	56.782	0.00	0.00
ATOM	2463	CA	SER	X	160	35.324	63.801	55.656	0.00	0.00
ATOM	2464	HA	SER	X	160	34.434	64.251	56.095	0.00	0.00
ATOM	2465	CB	SER	X	160	35.999	64.940	54.860	0.00	0.00
ATOM	2466	HB2	SER	X	160	35.259	65.276	54.134	0.00	0.00
ATOM	2467	HB3	SER	X	160	36.181	65.837	55.453	0.00	0.00
ATOM	2468	OG	SER	X	160	37.271	64.449	54.212	0.00	0.00
ATOM	2469	HG	SER	X	160	37.982	64.988	54.566	0.00	0.00
ATOM	2470	C	SER	X	160	34.897	62.570	54.789	0.00	0.00
ATOM	2471	O	SER	X	160	35.216	61.417	55.169	0.00	0.00
ATOM	2472	N	ARG	X	161	34.406	62.725	53.549	0.00	0.00
ATOM	2473	H	ARG	X	161	34.156	63.661	53.265	0.00	0.00
ATOM	2474	CA	ARG	X	161	34.513	61.742	52.387	0.00	0.00
ATOM	2475	HA	ARG	X	161	35.104	60.891	52.723	0.00	0.00
ATOM	2476	CB	ARG	X	161	33.150	61.107	52.039	0.00	0.00
ATOM	2477	HB2	ARG	X	161	32.581	61.865	51.501	0.00	0.00

ATOM	2478	HB3	ARG	X	161	33.347	60.287	51.349	0.00	0.00
ATOM	2479	CG	ARG	X	161	32.287	60.619	53.274	0.00	0.00
ATOM	2480	HG2	ARG	X	161	32.630	61.037	54.221	0.00	0.00
ATOM	2481	HG3	ARG	X	161	31.262	60.965	53.145	0.00	0.00
ATOM	2482	CD	ARG	X	161	32.292	59.107	53.435	0.00	0.00
ATOM	2483	HD2	ARG	X	161	31.675	58.754	54.262	0.00	0.00
ATOM	2484	HD3	ARG	X	161	31.765	58.680	52.582	0.00	0.00
ATOM	2485	NE	ARG	X	161	33.613	58.615	53.713	0.00	0.00
ATOM	2486	HE	ARG	X	161	34.301	59.247	54.096	0.00	0.00
ATOM	2487	CZ	ARG	X	161	33.880	57.342	53.992	0.00	0.00
ATOM	2488	NH1	ARG	X	161	33.113	56.347	53.742	0.00	0.00
ATOM	2489	HH11	ARG	X	161	32.176	56.483	53.390	0.00	0.00
ATOM	2490	HH12	ARG	X	161	33.583	55.486	53.499	0.00	0.00
ATOM	2491	NH2	ARG	X	161	35.029	57.039	54.573	0.00	0.00
ATOM	2492	HH21	ARG	X	161	35.686	57.773	54.798	0.00	0.00
ATOM	2493	HH22	ARG	X	161	35.150	56.097	54.915	0.00	0.00
ATOM	2494	C	ARG	X	161	35.231	62.433	51.192	0.00	0.00
ATOM	2495	O	ARG	X	161	34.922	62.075	50.052	0.00	0.00
ATOM	2496	N	GLU	X	162	36.140	63.354	51.427	0.00	0.00
ATOM	2497	H	GLU	X	162	36.402	63.448	52.398	0.00	0.00
ATOM	2498	CA	GLU	X	162	36.819	64.169	50.427	0.00	0.00
ATOM	2499	HA	GLU	X	162	36.040	64.600	49.798	0.00	0.00
ATOM	2500	CB	GLU	X	162	37.560	65.424	50.949	0.00	0.00
ATOM	2501	HB2	GLU	X	162	37.943	65.081	51.910	0.00	0.00
ATOM	2502	HB3	GLU	X	162	38.342	65.766	50.271	0.00	0.00
ATOM	2503	CG	GLU	X	162	36.640	66.647	51.141	0.00	0.00
ATOM	2504	HG2	GLU	X	162	35.715	66.363	51.642	0.00	0.00
ATOM	2505	HG3	GLU	X	162	37.037	67.370	51.854	0.00	0.00
ATOM	2506	CD	GLU	X	162	36.293	67.364	49.827	0.00	0.00
ATOM	2507	OE1	GLU	X	162	35.476	66.789	49.120	0.00	0.00
ATOM	2508	OE2	GLU	X	162	36.906	68.392	49.557	0.00	0.00
ATOM	2509	C	GLU	X	162	37.788	63.357	49.555	0.00	0.00
ATOM	2510	O	GLU	X	162	37.860	63.696	48.395	0.00	0.00
ATOM	2511	N	ALA	X	163	38.435	62.292	50.042	0.00	0.00
ATOM	2512	H	ALA	X	163	38.357	62.281	51.049	0.00	0.00
ATOM	2513	CA	ALA	X	163	39.061	61.133	49.383	0.00	0.00
ATOM	2514	HA	ALA	X	163	38.797	61.146	48.326	0.00	0.00
ATOM	2515	CB	ALA	X	163	40.541	61.322	49.533	0.00	0.00
ATOM	2516	HB1	ALA	X	163	40.788	62.231	48.985	0.00	0.00
ATOM	2517	HB2	ALA	X	163	41.101	60.476	49.133	0.00	0.00
ATOM	2518	HB3	ALA	X	163	40.709	61.422	50.605	0.00	0.00
ATOM	2519	C	ALA	X	163	38.579	59.827	50.070	0.00	0.00
ATOM	2520	O	ALA	X	163	38.966	59.572	51.239	0.00	0.00
ATOM	2521	N	PRO	X	164	37.530	59.148	49.535	0.00	0.00
ATOM	2522	CD	PRO	X	164	36.613	59.544	48.417	0.00	0.00
ATOM	2523	HD2	PRO	X	164	36.981	59.165	47.464	0.00	0.00
ATOM	2524	HD3	PRO	X	164	36.554	60.621	48.259	0.00	0.00
ATOM	2525	CG	PRO	X	164	35.216	58.905	48.790	0.00	0.00
ATOM	2526	HG2	PRO	X	164	34.466	58.698	48.027	0.00	0.00
ATOM	2527	HG3	PRO	X	164	34.626	59.499	49.489	0.00	0.00
ATOM	2528	CB	PRO	X	164	35.608	57.608	49.485	0.00	0.00
ATOM	2529	HB2	PRO	X	164	35.814	56.896	48.686	0.00	0.00
ATOM	2530	HB3	PRO	X	164	34.822	57.155	50.089	0.00	0.00
ATOM	2531	CA	PRO	X	164	36.913	58.001	50.214	0.00	0.00
ATOM	2532	HA	PRO	X	164	36.665	58.201	51.256	0.00	0.00
ATOM	2533	C	PRO	X	164	37.797	56.808	50.396	0.00	0.00
ATOM	2534	O	PRO	X	164	37.499	56.008	51.295	0.00	0.00
ATOM	2535	N	GLY	X	165	38.840	56.592	49.609	0.00	0.00
ATOM	2536	H	GLY	X	165	39.199	57.298	48.982	0.00	0.00
ATOM	2537	CA	GLY	X	165	39.589	55.292	49.593	0.00	0.00
ATOM	2538	HA2	GLY	X	165	40.628	55.600	49.485	0.00	0.00
ATOM	2539	HA3	GLY	X	165	39.382	54.642	50.444	0.00	0.00
ATOM	2540	C	GLY	X	165	39.325	54.474	48.431	0.00	0.00
ATOM	2541	O	GLY	X	165	39.975	54.492	47.393	0.00	0.00
ATOM	2542	N	ASN	X	166	38.251	53.740	48.451	0.00	0.00
ATOM	2543	H	ASN	X	166	37.711	53.739	49.304	0.00	0.00
ATOM	2544	CA	ASN	X	166	37.907	52.647	47.616	0.00	0.00

ATOM	2545	HA	ASN	X	166	38.825	52.112	47.373	0.00	0.00
ATOM	2546	CB	ASN	X	166	37.008	51.625	48.363	0.00	0.00
ATOM	2547	HB2	ASN	X	166	36.049	52.043	48.667	0.00	0.00
ATOM	2548	HB3	ASN	X	166	36.778	50.731	47.783	0.00	0.00
ATOM	2549	CG	ASN	X	166	37.656	51.272	49.722	0.00	0.00
ATOM	2550	OD1	ASN	X	166	38.844	51.109	49.813	0.00	0.00
ATOM	2551	ND2	ASN	X	166	36.975	51.171	50.888	0.00	0.00
ATOM	2552	HD21	ASN	X	166	37.553	51.049	51.707	0.00	0.00
ATOM	2553	HD22	ASN	X	166	35.975	51.266	50.989	0.00	0.00
ATOM	2554	C	ASN	X	166	37.379	52.979	46.112	0.00	0.00
ATOM	2555	O	ASN	X	166	36.586	52.323	45.416	0.00	0.00
ATOM	2556	N	VAL	X	167	37.849	54.096	45.560	0.00	0.00
ATOM	2557	H	VAL	X	167	38.555	54.584	46.092	0.00	0.00
ATOM	2558	CA	VAL	X	167	37.338	54.724	44.287	0.00	0.00
ATOM	2559	HA	VAL	X	167	36.251	54.635	44.288	0.00	0.00
ATOM	2560	CB	VAL	X	167	37.608	56.200	44.173	0.00	0.00
ATOM	2561	HB	VAL	X	167	36.984	56.569	43.359	0.00	0.00
ATOM	2562	CG1	VAL	X	167	37.133	56.996	45.351	0.00	0.00
ATOM	2563	HG11	VAL	X	167	36.138	56.696	45.679	0.00	0.00
ATOM	2564	HG12	VAL	X	167	37.785	56.963	46.224	0.00	0.00
ATOM	2565	HG13	VAL	X	167	36.988	58.001	44.955	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.008	56.633	43.794	0.00	0.00
ATOM	2567	HG21	VAL	X	167	39.658	56.551	44.666	0.00	0.00
ATOM	2568	HG22	VAL	X	167	39.011	57.688	43.522	0.00	0.00
ATOM	2569	HG23	VAL	X	167	39.418	55.974	43.029	0.00	0.00
ATOM	2570	C	VAL	X	167	37.730	53.924	43.000	0.00	0.00
ATOM	2571	O	VAL	X	167	36.992	53.913	42.035	0.00	0.00
ATOM	2572	N	GLY	X	168	38.887	53.181	43.040	0.00	0.00
ATOM	2573	H	GLY	X	168	39.430	53.233	43.891	0.00	0.00
ATOM	2574	CA	GLY	X	168	39.360	52.314	41.950	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.173	52.808	40.997	0.00	0.00
ATOM	2576	HA3	GLY	X	168	40.414	52.087	42.108	0.00	0.00
ATOM	2577	C	GLY	X	168	38.610	50.946	41.952	0.00	0.00
ATOM	2578	O	GLY	X	168	38.521	50.292	40.924	0.00	0.00
ATOM	2579	N	LEU	X	169	37.975	50.557	43.063	0.00	0.00
ATOM	2580	H	LEU	X	169	37.934	51.180	43.856	0.00	0.00
ATOM	2581	CA	LEU	X	169	36.909	49.578	43.002	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.129	48.821	42.250	0.00	0.00
ATOM	2583	CB	LEU	X	169	36.669	48.841	44.387	0.00	0.00
ATOM	2584	HB2	LEU	X	169	35.991	49.531	44.889	0.00	0.00
ATOM	2585	HB3	LEU	X	169	36.093	47.919	44.312	0.00	0.00
ATOM	2586	CG	LEU	X	169	37.960	48.523	45.158	0.00	0.00
ATOM	2587	HG	LEU	X	169	38.625	49.370	45.328	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.670	47.939	46.580	0.00	0.00
ATOM	2589	HD11	LEU	X	169	38.526	47.585	47.154	0.00	0.00
ATOM	2590	HD12	LEU	X	169	36.980	47.098	46.500	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.206	48.795	47.070	0.00	0.00
ATOM	2592	CD2	LEU	X	169	38.876	47.541	44.473	0.00	0.00
ATOM	2593	HD21	LEU	X	169	39.075	47.873	43.454	0.00	0.00
ATOM	2594	HD22	LEU	X	169	39.794	47.464	45.056	0.00	0.00
ATOM	2595	HD23	LEU	X	169	38.396	46.564	44.423	0.00	0.00
ATOM	2596	C	LEU	X	169	35.528	50.164	42.484	0.00	0.00
ATOM	2597	O	LEU	X	169	34.845	49.478	41.782	0.00	0.00
ATOM	2598	N	LEU	X	170	35.189	51.411	42.854	0.00	0.00
ATOM	2599	H	LEU	X	170	35.818	51.937	43.443	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.016	52.116	42.273	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.167	51.440	42.376	0.00	0.00
ATOM	2602	CB	LEU	X	170	33.704	53.407	43.038	0.00	0.00
ATOM	2603	HB2	LEU	X	170	34.600	54.025	43.093	0.00	0.00
ATOM	2604	HB3	LEU	X	170	32.883	53.947	42.569	0.00	0.00
ATOM	2605	CG	LEU	X	170	33.241	53.225	44.515	0.00	0.00
ATOM	2606	HG	LEU	X	170	33.903	52.593	45.107	0.00	0.00
ATOM	2607	CD1	LEU	X	170	33.270	54.612	45.103	0.00	0.00
ATOM	2608	HD11	LEU	X	170	34.284	55.001	45.197	0.00	0.00
ATOM	2609	HD12	LEU	X	170	32.942	54.669	46.141	0.00	0.00
ATOM	2610	HD13	LEU	X	170	32.537	55.198	44.548	0.00	0.00
ATOM	2611	CD2	LEU	X	170	31.792	52.762	44.533	0.00	0.00

ATOM	2612	HD21	LEU	X	170	31.196	53.356	43.841	0.00	0.00
ATOM	2613	HD22	LEU	X	170	31.791	51.708	44.252	0.00	0.00
ATOM	2614	HD23	LEU	X	170	31.448	52.829	45.565	0.00	0.00
ATOM	2615	C	LEU	X	170	34.069	52.369	40.754	0.00	0.00
ATOM	2616	O	LEU	X	170	33.011	52.427	40.128	0.00	0.00
ATOM	2617	N	ASP	X	171	35.219	52.667	40.177	0.00	0.00
ATOM	2618	H	ASP	X	171	36.077	52.762	40.700	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.449	52.586	38.721	0.00	0.00
ATOM	2620	HA	ASP	X	171	34.969	53.415	38.201	0.00	0.00
ATOM	2621	CB	ASP	X	171	36.911	52.693	38.372	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.475	51.882	38.832	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.039	52.421	37.325	0.00	0.00
ATOM	2624	CG	ASP	X	171	37.564	54.044	38.786	0.00	0.00
ATOM	2625	OD1	ASP	X	171	36.898	55.048	39.154	0.00	0.00
ATOM	2626	OD2	ASP	X	171	38.791	54.165	38.495	0.00	0.00
ATOM	2627	C	ASP	X	171	34.856	51.264	38.194	0.00	0.00
ATOM	2628	O	ASP	X	171	33.859	51.268	37.431	0.00	0.00
ATOM	2629	N	GLN	X	172	35.357	50.079	38.648	0.00	0.00
ATOM	2630	H	GLN	X	172	36.083	50.152	39.346	0.00	0.00
ATOM	2631	CA	GLN	X	172	35.005	48.711	38.190	0.00	0.00
ATOM	2632	HA	GLN	X	172	35.052	48.645	37.103	0.00	0.00
ATOM	2633	CB	GLN	X	172	35.832	47.556	38.948	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.624	47.600	40.017	0.00	0.00
ATOM	2635	HB3	GLN	X	172	35.561	46.531	38.694	0.00	0.00
ATOM	2636	CG	GLN	X	172	37.320	47.746	38.853	0.00	0.00
ATOM	2637	HG2	GLN	X	172	37.716	47.301	37.940	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.555	48.808	38.910	0.00	0.00
ATOM	2639	CD	GLN	X	172	38.139	47.137	40.037	0.00	0.00
ATOM	2640	OE1	GLN	X	172	37.591	46.608	40.992	0.00	0.00
ATOM	2641	NE2	GLN	X	172	39.460	47.055	40.070	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.759	46.706	40.969	0.00	0.00
ATOM	2643	HE22	GLN	X	172	40.071	47.283	39.298	0.00	0.00
ATOM	2644	C	GLN	X	172	33.529	48.430	38.486	0.00	0.00
ATOM	2645	O	GLN	X	172	32.845	47.907	37.609	0.00	0.00
ATOM	2646	N	ARG	X	173	32.946	48.918	39.570	0.00	0.00
ATOM	2647	H	ARG	X	173	33.573	49.328	40.247	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.502	48.813	39.851	0.00	0.00
ATOM	2649	HA	ARG	X	173	31.171	47.774	39.831	0.00	0.00
ATOM	2650	CB	ARG	X	173	31.181	49.485	41.265	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.927	49.201	42.007	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.313	50.563	41.178	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.806	49.042	41.662	0.00	0.00
ATOM	2654	HG2	ARG	X	173	29.125	49.256	40.839	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.690	47.963	41.769	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.174	49.772	42.886	0.00	0.00
ATOM	2657	HD2	ARG	X	173	29.668	50.742	42.949	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.088	49.824	42.813	0.00	0.00
ATOM	2659	NE	ARG	X	173	29.492	48.886	44.024	0.00	0.00
ATOM	2660	HE	ARG	X	173	29.517	47.906	43.782	0.00	0.00
ATOM	2661	CZ	ARG	X	173	29.742	49.207	45.274	0.00	0.00
ATOM	2662	NH1	ARG	X	173	29.803	50.483	45.628	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.317	51.248	45.184	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.101	50.590	46.588	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.088	48.261	46.137	0.00	0.00
ATOM	2666	HH21	ARG	X	173	30.348	47.352	45.780	0.00	0.00
ATOM	2667	HH22	ARG	X	173	30.141	48.353	47.141	0.00	0.00
ATOM	2668	C	ARG	X	173	30.673	49.499	38.743	0.00	0.00
ATOM	2669	O	ARG	X	173	29.598	49.050	38.295	0.00	0.00
ATOM	2670	N	LEU	X	174	31.125	50.641	38.256	0.00	0.00
ATOM	2671	H	LEU	X	174	32.020	50.937	38.619	0.00	0.00
ATOM	2672	CA	LEU	X	174	30.399	51.567	37.394	0.00	0.00
ATOM	2673	HA	LEU	X	174	29.390	51.538	37.805	0.00	0.00
ATOM	2674	CB	LEU	X	174	30.851	53.071	37.491	0.00	0.00
ATOM	2675	HB2	LEU	X	174	30.815	53.397	38.531	0.00	0.00
ATOM	2676	HB3	LEU	X	174	31.891	53.054	37.165	0.00	0.00
ATOM	2677	CG	LEU	X	174	30.102	54.089	36.619	0.00	0.00
ATOM	2678	HG	LEU	X	174	29.897	53.774	35.596	0.00	0.00

ATOM	2679	CD1	LEU	X	174	28.685	54.119	37.188	0.00	0.00
ATOM	2680	HD11	LEU	X	174	28.710	54.148	38.277	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.004	53.333	36.861	0.00	0.00
ATOM	2682	HD13	LEU	X	174	28.237	55.085	36.957	0.00	0.00
ATOM	2683	CD2	LEU	X	174	30.837	55.390	36.542	0.00	0.00
ATOM	2684	HD21	LEU	X	174	30.756	55.852	37.526	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.879	55.302	36.233	0.00	0.00
ATOM	2686	HD23	LEU	X	174	30.397	56.026	35.773	0.00	0.00
ATOM	2687	C	LEU	X	174	30.418	50.919	35.963	0.00	0.00
ATOM	2688	O	LEU	X	174	29.354	50.869	35.363	0.00	0.00
ATOM	2689	N	ALA	X	175	31.539	50.305	35.601	0.00	0.00
ATOM	2690	H	ALA	X	175	32.352	50.388	36.195	0.00	0.00
ATOM	2691	CA	ALA	X	175	31.702	49.515	34.379	0.00	0.00
ATOM	2692	HA	ALA	X	175	31.421	50.096	33.501	0.00	0.00
ATOM	2693	CB	ALA	X	175	33.214	49.252	34.163	0.00	0.00
ATOM	2694	HB1	ALA	X	175	33.777	50.167	34.345	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.326	48.860	33.153	0.00	0.00
ATOM	2696	HB3	ALA	X	175	33.574	48.457	34.816	0.00	0.00
ATOM	2697	C	ALA	X	175	30.814	48.198	34.396	0.00	0.00
ATOM	2698	O	ALA	X	175	30.189	47.877	33.391	0.00	0.00
ATOM	2699	N	LEU	X	176	30.841	47.533	35.556	0.00	0.00
ATOM	2700	H	LEU	X	176	31.396	47.810	36.353	0.00	0.00
ATOM	2701	CA	LEU	X	176	29.872	46.385	35.758	0.00	0.00
ATOM	2702	HA	LEU	X	176	30.071	45.632	34.996	0.00	0.00
ATOM	2703	CB	LEU	X	176	30.008	45.704	37.151	0.00	0.00
ATOM	2704	HB2	LEU	X	176	29.757	46.450	37.905	0.00	0.00
ATOM	2705	HB3	LEU	X	176	29.180	44.998	37.201	0.00	0.00
ATOM	2706	CG	LEU	X	176	31.292	44.937	37.422	0.00	0.00
ATOM	2707	HG	LEU	X	176	32.170	45.571	37.298	0.00	0.00
ATOM	2708	CD1	LEU	X	176	31.275	44.465	38.886	0.00	0.00
ATOM	2709	HD11	LEU	X	176	31.988	43.672	39.113	0.00	0.00
ATOM	2710	HD12	LEU	X	176	30.286	44.178	39.243	0.00	0.00
ATOM	2711	HD13	LEU	X	176	31.486	45.355	39.478	0.00	0.00
ATOM	2712	CD2	LEU	X	176	31.497	43.881	36.392	0.00	0.00
ATOM	2713	HD21	LEU	X	176	30.596	43.279	36.276	0.00	0.00
ATOM	2714	HD22	LEU	X	176	31.735	44.349	35.436	0.00	0.00
ATOM	2715	HD23	LEU	X	176	32.297	43.195	36.670	0.00	0.00
ATOM	2716	C	LEU	X	176	28.470	46.864	35.524	0.00	0.00
ATOM	2717	O	LEU	X	176	27.746	46.258	34.782	0.00	0.00
ATOM	2718	N	GLN	X	177	28.023	47.983	36.017	0.00	0.00
ATOM	2719	H	GLN	X	177	28.643	48.491	36.632	0.00	0.00
ATOM	2720	CA	GLN	X	177	26.668	48.463	35.751	0.00	0.00
ATOM	2721	HA	GLN	X	177	26.016	47.595	35.848	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.243	49.552	36.717	0.00	0.00
ATOM	2723	HB2	GLN	X	177	26.579	49.116	37.658	0.00	0.00
ATOM	2724	HB3	GLN	X	177	26.771	50.496	36.585	0.00	0.00
ATOM	2725	CG	GLN	X	177	24.773	49.633	36.739	0.00	0.00
ATOM	2726	HG2	GLN	X	177	24.400	49.818	35.731	0.00	0.00
ATOM	2727	HG3	GLN	X	177	24.296	48.726	37.111	0.00	0.00
ATOM	2728	CD	GLN	X	177	24.419	50.803	37.618	0.00	0.00
ATOM	2729	OE1	GLN	X	177	24.893	51.928	37.598	0.00	0.00
ATOM	2730	NE2	GLN	X	177	23.409	50.667	38.457	0.00	0.00
ATOM	2731	HE21	GLN	X	177	23.165	51.435	39.065	0.00	0.00
ATOM	2732	HE22	GLN	X	177	22.910	49.810	38.648	0.00	0.00
ATOM	2733	C	GLN	X	177	26.453	48.794	34.293	0.00	0.00
ATOM	2734	O	GLN	X	177	25.394	48.547	33.752	0.00	0.00
ATOM	2735	N	TRP	X	178	27.456	49.401	33.655	0.00	0.00
ATOM	2736	H	TRP	X	178	28.231	49.724	34.216	0.00	0.00
ATOM	2737	CA	TRP	X	178	27.534	49.585	32.202	0.00	0.00
ATOM	2738	HA	TRP	X	178	26.746	50.274	31.900	0.00	0.00
ATOM	2739	CB	TRP	X	178	28.806	50.351	31.773	0.00	0.00
ATOM	2740	HB2	TRP	X	178	29.020	51.106	32.530	0.00	0.00
ATOM	2741	HB3	TRP	X	178	29.599	49.611	31.664	0.00	0.00
ATOM	2742	CG	TRP	X	178	28.771	50.983	30.431	0.00	0.00
ATOM	2743	CD1	TRP	X	178	28.519	52.294	30.166	0.00	0.00
ATOM	2744	HD1	TRP	X	178	28.567	53.058	30.928	0.00	0.00
ATOM	2745	NE1	TRP	X	178	28.686	52.619	28.807	0.00	0.00

ATOM	2746	HE1	TRP	X	178	28.427	53.538	28.479	0.00	0.00
ATOM	2747	CE2	TRP	X	178	28.794	51.474	28.087	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	28.841	51.269	26.700	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	28.724	52.016	25.928	0.00	0.00
ATOM	2750	CH2	TRP	X	178	29.086	49.978	26.288	0.00	0.00
ATOM	2751	HH2	TRP	X	178	29.203	49.896	25.217	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	29.214	48.910	27.193	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	29.432	47.913	26.839	0.00	0.00
ATOM	2754	CE3	TRP	X	178	29.127	49.117	28.544	0.00	0.00
ATOM	2755	HE3	TRP	X	178	29.308	48.290	29.215	0.00	0.00
ATOM	2756	CD2	TRP	X	178	28.953	50.408	29.083	0.00	0.00
ATOM	2757	C	TRP	X	178	27.337	48.247	31.442	0.00	0.00
ATOM	2758	O	TRP	X	178	26.623	48.272	30.478	0.00	0.00
ATOM	2759	N	VAL	X	179	28.043	47.207	31.790	0.00	0.00
ATOM	2760	H	VAL	X	179	28.628	47.355	32.599	0.00	0.00
ATOM	2761	CA	VAL	X	179	27.962	45.903	31.183	0.00	0.00
ATOM	2762	HA	VAL	X	179	28.208	45.904	30.121	0.00	0.00
ATOM	2763	CB	VAL	X	179	29.106	44.938	31.720	0.00	0.00
ATOM	2764	HB	VAL	X	179	29.142	45.204	32.777	0.00	0.00
ATOM	2765	CG1	VAL	X	179	28.910	43.433	31.580	0.00	0.00
ATOM	2766	HG11	VAL	X	179	27.915	43.197	31.958	0.00	0.00
ATOM	2767	HG12	VAL	X	179	28.939	43.138	30.532	0.00	0.00
ATOM	2768	HG13	VAL	X	179	29.684	42.895	32.127	0.00	0.00
ATOM	2769	CG2	VAL	X	179	30.409	45.499	31.221	0.00	0.00
ATOM	2770	HG21	VAL	X	179	31.217	45.283	31.920	0.00	0.00
ATOM	2771	HG22	VAL	X	179	30.263	46.578	31.174	0.00	0.00
ATOM	2772	HG23	VAL	X	179	30.580	45.245	30.175	0.00	0.00
ATOM	2773	C	VAL	X	179	26.516	45.380	31.295	0.00	0.00
ATOM	2774	O	VAL	X	179	25.936	44.961	30.292	0.00	0.00
ATOM	2775	N	GLN	X	180	25.958	45.479	32.573	0.00	0.00
ATOM	2776	H	GLN	X	180	26.506	45.855	33.334	0.00	0.00
ATOM	2777	CA	GLN	X	180	24.537	45.153	32.773	0.00	0.00
ATOM	2778	HA	GLN	X	180	24.338	44.103	32.559	0.00	0.00
ATOM	2779	CB	GLN	X	180	24.080	45.178	34.201	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.442	46.125	34.600	0.00	0.00
ATOM	2781	HB3	GLN	X	180	22.994	45.248	34.260	0.00	0.00
ATOM	2782	CG	GLN	X	180	24.597	44.046	35.083	0.00	0.00
ATOM	2783	HG2	GLN	X	180	25.668	44.247	35.051	0.00	0.00
ATOM	2784	HG3	GLN	X	180	24.285	44.172	36.120	0.00	0.00
ATOM	2785	CD	GLN	X	180	24.299	42.612	34.639	0.00	0.00
ATOM	2786	OE1	GLN	X	180	23.210	42.300	34.180	0.00	0.00
ATOM	2787	NE2	GLN	X	180	25.237	41.748	34.828	0.00	0.00
ATOM	2788	HE21	GLN	X	180	25.009	40.836	34.461	0.00	0.00
ATOM	2789	HE22	GLN	X	180	25.986	41.927	35.482	0.00	0.00
ATOM	2790	C	GLN	X	180	23.574	46.102	31.934	0.00	0.00
ATOM	2791	O	GLN	X	180	22.424	45.773	31.705	0.00	0.00
ATOM	2792	N	GLU	X	181	24.036	47.319	31.493	0.00	0.00
ATOM	2793	H	GLU	X	181	24.943	47.642	31.798	0.00	0.00
ATOM	2794	CA	GLU	X	181	23.170	48.108	30.587	0.00	0.00
ATOM	2795	HA	GLU	X	181	22.104	47.978	30.774	0.00	0.00
ATOM	2796	CB	GLU	X	181	23.415	49.545	31.003	0.00	0.00
ATOM	2797	HB2	GLU	X	181	24.466	49.831	30.965	0.00	0.00
ATOM	2798	HB3	GLU	X	181	23.023	50.240	30.261	0.00	0.00
ATOM	2799	CG	GLU	X	181	22.808	49.918	32.342	0.00	0.00
ATOM	2800	HG2	GLU	X	181	22.894	49.022	32.957	0.00	0.00
ATOM	2801	HG3	GLU	X	181	23.254	50.809	32.784	0.00	0.00
ATOM	2802	CD	GLU	X	181	21.379	50.114	32.053	0.00	0.00
ATOM	2803	OE1	GLU	X	181	20.454	49.294	32.362	0.00	0.00
ATOM	2804	OE2	GLU	X	181	21.040	51.232	31.608	0.00	0.00
ATOM	2805	C	GLU	X	181	23.325	47.998	29.045	0.00	0.00
ATOM	2806	O	GLU	X	181	22.465	48.308	28.232	0.00	0.00
ATOM	2807	N	ASN	X	182	24.519	47.500	28.616	0.00	0.00
ATOM	2808	H	ASN	X	182	25.258	47.366	29.291	0.00	0.00
ATOM	2809	CA	ASN	X	182	24.860	47.395	27.187	0.00	0.00
ATOM	2810	HA	ASN	X	182	23.991	47.668	26.588	0.00	0.00
ATOM	2811	CB	ASN	X	182	25.936	48.460	26.998	0.00	0.00
ATOM	2812	HB2	ASN	X	182	26.799	48.288	27.642	0.00	0.00

ATOM	2813	HB3	ASN	X	182	26.280	48.527	25.966	0.00	0.00
ATOM	2814	CG	ASN	X	182	25.444	49.883	27.449	0.00	0.00
ATOM	2815	OD1	ASN	X	182	24.794	50.577	26.747	0.00	0.00
ATOM	2816	ND2	ASN	X	182	25.831	50.338	28.620	0.00	0.00
ATOM	2817	HD21	ASN	X	182	25.335	51.134	28.994	0.00	0.00
ATOM	2818	HD22	ASN	X	182	26.448	49.765	29.178	0.00	0.00
ATOM	2819	C	ASN	X	182	25.380	46.058	26.662	0.00	0.00
ATOM	2820	O	ASN	X	182	25.626	45.959	25.437	0.00	0.00
ATOM	2821	N	VAL	X	183	25.648	45.031	27.492	0.00	0.00
ATOM	2822	H	VAL	X	183	25.310	45.076	28.442	0.00	0.00
ATOM	2823	CA	VAL	X	183	26.186	43.746	27.011	0.00	0.00
ATOM	2824	HA	VAL	X	183	27.058	44.069	26.442	0.00	0.00
ATOM	2825	CB	VAL	X	183	26.781	42.899	28.141	0.00	0.00
ATOM	2826	HB	VAL	X	183	27.284	43.588	28.820	0.00	0.00
ATOM	2827	CG1	VAL	X	183	25.765	41.964	28.914	0.00	0.00
ATOM	2828	HG11	VAL	X	183	26.154	41.855	29.926	0.00	0.00
ATOM	2829	HG12	VAL	X	183	24.798	42.467	28.916	0.00	0.00
ATOM	2830	HG13	VAL	X	183	25.568	40.988	28.470	0.00	0.00
ATOM	2831	CG2	VAL	X	183	27.838	41.939	27.680	0.00	0.00
ATOM	2832	HG21	VAL	X	183	27.484	41.060	27.142	0.00	0.00
ATOM	2833	HG22	VAL	X	183	28.431	41.657	28.549	0.00	0.00
ATOM	2834	HG23	VAL	X	183	28.508	42.514	27.040	0.00	0.00
ATOM	2835	C	VAL	X	183	25.400	42.909	26.044	0.00	0.00
ATOM	2836	O	VAL	X	183	25.958	42.101	25.354	0.00	0.00
ATOM	2837	N	ALA	X	184	24.031	43.060	26.060	0.00	0.00
ATOM	2838	H	ALA	X	184	23.567	43.712	26.676	0.00	0.00
ATOM	2839	CA	ALA	X	184	23.209	42.235	25.144	0.00	0.00
ATOM	2840	HA	ALA	X	184	23.625	41.229	25.090	0.00	0.00
ATOM	2841	CB	ALA	X	184	21.749	42.053	25.558	0.00	0.00
ATOM	2842	HB1	ALA	X	184	21.609	41.266	26.299	0.00	0.00
ATOM	2843	HB2	ALA	X	184	21.225	41.821	24.631	0.00	0.00
ATOM	2844	HB3	ALA	X	184	21.338	42.895	26.116	0.00	0.00
ATOM	2845	C	ALA	X	184	23.392	42.821	23.619	0.00	0.00
ATOM	2846	O	ALA	X	184	23.254	42.133	22.627	0.00	0.00
ATOM	2847	N	ALA	X	185	23.749	44.115	23.479	0.00	0.00
ATOM	2848	H	ALA	X	185	23.838	44.723	24.280	0.00	0.00
ATOM	2849	CA	ALA	X	185	24.030	44.690	22.185	0.00	0.00
ATOM	2850	HA	ALA	X	185	23.177	44.391	21.575	0.00	0.00
ATOM	2851	CB	ALA	X	185	24.287	46.217	22.326	0.00	0.00
ATOM	2852	HB1	ALA	X	185	23.328	46.656	22.600	0.00	0.00
ATOM	2853	HB2	ALA	X	185	24.666	46.691	21.420	0.00	0.00
ATOM	2854	HB3	ALA	X	185	25.005	46.508	23.092	0.00	0.00
ATOM	2855	C	ALA	X	185	25.338	44.077	21.552	0.00	0.00
ATOM	2856	O	ALA	X	185	25.395	44.004	20.307	0.00	0.00
ATOM	2857	N	PHE	X	186	26.367	43.815	22.360	0.00	0.00
ATOM	2858	H	PHE	X	186	26.116	43.853	23.338	0.00	0.00
ATOM	2859	CA	PHE	X	186	27.537	43.022	22.004	0.00	0.00
ATOM	2860	HA	PHE	X	186	27.947	43.402	21.068	0.00	0.00
ATOM	2861	CB	PHE	X	186	28.691	43.339	22.978	0.00	0.00
ATOM	2862	HB2	PHE	X	186	28.386	42.947	23.948	0.00	0.00
ATOM	2863	HB3	PHE	X	186	29.532	42.705	22.699	0.00	0.00
ATOM	2864	CG	PHE	X	186	29.036	44.764	23.013	0.00	0.00
ATOM	2865	CD1	PHE	X	186	28.496	45.553	23.994	0.00	0.00
ATOM	2866	HD1	PHE	X	186	27.979	45.084	24.818	0.00	0.00
ATOM	2867	CE1	PHE	X	186	28.660	46.966	24.011	0.00	0.00
ATOM	2868	HE1	PHE	X	186	28.204	47.719	24.637	0.00	0.00
ATOM	2869	CZ	PHE	X	186	29.398	47.528	22.955	0.00	0.00
ATOM	2870	HZ	PHE	X	186	29.479	48.604	22.898	0.00	0.00
ATOM	2871	CE2	PHE	X	186	30.039	46.746	21.973	0.00	0.00
ATOM	2872	HE2	PHE	X	186	30.573	47.115	21.110	0.00	0.00
ATOM	2873	CD2	PHE	X	186	29.867	45.318	22.002	0.00	0.00
ATOM	2874	HD2	PHE	X	186	30.240	44.737	21.171	0.00	0.00
ATOM	2875	C	PHE	X	186	27.243	41.540	21.702	0.00	0.00
ATOM	2876	O	PHE	X	186	28.259	40.921	21.304	0.00	0.00
ATOM	2877	N	GLY	X	187	26.021	41.086	22.013	0.00	0.00
ATOM	2878	H	GLY	X	187	25.406	41.806	22.365	0.00	0.00
ATOM	2879	CA	GLY	X	187	25.487	39.760	21.729	0.00	0.00

ATOM	2880	HA2	GLY	X	187	24.449	39.868	21.415	0.00	0.00
ATOM	2881	HA3	GLY	X	187	25.922	39.340	20.822	0.00	0.00
ATOM	2882	C	GLY	X	187	25.579	38.770	22.860	0.00	0.00
ATOM	2883	O	GLY	X	187	25.065	37.640	22.664	0.00	0.00
ATOM	2884	N	GLY	X	188	26.097	39.084	24.108	0.00	0.00
ATOM	2885	H	GLY	X	188	26.375	40.037	24.298	0.00	0.00
ATOM	2886	CA	GLY	X	188	26.002	38.279	25.365	0.00	0.00
ATOM	2887	HA2	GLY	X	188	26.314	37.262	25.127	0.00	0.00
ATOM	2888	HA3	GLY	X	188	26.736	38.654	26.079	0.00	0.00
ATOM	2889	C	GLY	X	188	24.576	38.309	26.033	0.00	0.00
ATOM	2890	O	GLY	X	188	23.535	38.516	25.429	0.00	0.00
ATOM	2891	N	ASP	X	189	24.639	37.739	27.262	0.00	0.00
ATOM	2892	H	ASP	X	189	25.574	37.462	27.524	0.00	0.00
ATOM	2893	CA	ASP	X	189	23.542	37.419	28.178	0.00	0.00
ATOM	2894	HA	ASP	X	189	22.631	37.868	27.783	0.00	0.00
ATOM	2895	CB	ASP	X	189	23.406	35.919	28.248	0.00	0.00
ATOM	2896	HB2	ASP	X	189	23.003	35.518	27.318	0.00	0.00
ATOM	2897	HB3	ASP	X	189	24.375	35.472	28.469	0.00	0.00
ATOM	2898	CG	ASP	X	189	22.414	35.458	29.318	0.00	0.00
ATOM	2899	OD1	ASP	X	189	22.428	34.255	29.602	0.00	0.00
ATOM	2900	OD2	ASP	X	189	21.588	36.272	29.731	0.00	0.00
ATOM	2901	C	ASP	X	189	23.854	38.121	29.451	0.00	0.00
ATOM	2902	O	ASP	X	189	24.750	37.639	30.109	0.00	0.00
ATOM	2903	N	PRO	X	190	23.136	39.238	29.800	0.00	0.00
ATOM	2904	CD	PRO	X	190	21.842	39.730	29.312	0.00	0.00
ATOM	2905	HD2	PRO	X	190	20.959	39.338	29.817	0.00	0.00
ATOM	2906	HD3	PRO	X	190	21.723	39.635	28.233	0.00	0.00
ATOM	2907	CG	PRO	X	190	21.891	41.227	29.628	0.00	0.00
ATOM	2908	HG2	PRO	X	190	20.884	41.614	29.784	0.00	0.00
ATOM	2909	HG3	PRO	X	190	22.358	41.853	28.867	0.00	0.00
ATOM	2910	CB	PRO	X	190	22.530	41.173	31.028	0.00	0.00
ATOM	2911	HB2	PRO	X	190	21.659	41.133	31.681	0.00	0.00
ATOM	2912	HB3	PRO	X	190	23.040	42.127	31.161	0.00	0.00
ATOM	2913	CA	PRO	X	190	23.406	39.925	31.042	0.00	0.00
ATOM	2914	HA	PRO	X	190	24.456	40.197	31.146	0.00	0.00
ATOM	2915	C	PRO	X	190	23.077	39.035	32.299	0.00	0.00
ATOM	2916	O	PRO	X	190	23.589	39.369	33.410	0.00	0.00
ATOM	2917	N	THR	X	191	22.367	37.897	32.068	0.00	0.00
ATOM	2918	H	THR	X	191	21.994	37.653	31.161	0.00	0.00
ATOM	2919	CA	THR	X	191	22.167	36.939	33.132	0.00	0.00
ATOM	2920	HA	THR	X	191	22.216	37.476	34.080	0.00	0.00
ATOM	2921	CB	THR	X	191	20.845	36.242	33.037	0.00	0.00
ATOM	2922	HB	THR	X	191	20.703	35.820	34.033	0.00	0.00
ATOM	2923	CG2	THR	X	191	19.648	37.224	32.850	0.00	0.00
ATOM	2924	HG21	THR	X	191	18.694	36.704	32.941	0.00	0.00
ATOM	2925	HG22	THR	X	191	19.736	37.820	31.942	0.00	0.00
ATOM	2926	HG23	THR	X	191	19.582	37.909	33.695	0.00	0.00
ATOM	2927	OG1	THR	X	191	20.732	35.273	32.063	0.00	0.00
ATOM	2928	HG1	THR	X	191	21.049	35.606	31.220	0.00	0.00
ATOM	2929	C	THR	X	191	23.268	35.936	33.310	0.00	0.00
ATOM	2930	O	THR	X	191	23.151	35.040	34.132	0.00	0.00
ATOM	2931	N	SER	X	192	24.409	36.149	32.621	0.00	0.00
ATOM	2932	H	SER	X	192	24.418	36.983	32.051	0.00	0.00
ATOM	2933	CA	SER	X	192	25.394	35.117	32.491	0.00	0.00
ATOM	2934	HA	SER	X	192	25.329	34.441	33.343	0.00	0.00
ATOM	2935	CB	SER	X	192	25.286	34.346	31.168	0.00	0.00
ATOM	2936	HB2	SER	X	192	25.097	35.004	30.319	0.00	0.00
ATOM	2937	HB3	SER	X	192	26.172	33.725	31.040	0.00	0.00
ATOM	2938	OG	SER	X	192	24.224	33.431	31.304	0.00	0.00
ATOM	2939	HG	SER	X	192	23.505	33.584	30.688	0.00	0.00
ATOM	2940	C	SER	X	192	26.790	35.753	32.669	0.00	0.00
ATOM	2941	O	SER	X	192	27.746	35.285	32.045	0.00	0.00
ATOM	2942	N	VAL	X	193	26.994	36.747	33.513	0.00	0.00
ATOM	2943	H	VAL	X	193	26.209	37.078	34.055	0.00	0.00
ATOM	2944	CA	VAL	X	193	28.203	37.511	33.777	0.00	0.00
ATOM	2945	HA	VAL	X	193	28.816	37.363	32.888	0.00	0.00
ATOM	2946	CB	VAL	X	193	27.981	39.018	34.107	0.00	0.00

ATOM	2947	HB	VAL	X	193	27.297	39.159	34.944	0.00	0.00
ATOM	2948	CG1	VAL	X	193	29.287	39.811	34.415	0.00	0.00
ATOM	2949	HG11	VAL	X	193	29.124	40.872	34.604	0.00	0.00
ATOM	2950	HG12	VAL	X	193	29.785	39.411	35.298	0.00	0.00
ATOM	2951	HG13	VAL	X	193	30.043	39.663	33.644	0.00	0.00
ATOM	2952	CG2	VAL	X	193	27.260	39.622	32.943	0.00	0.00
ATOM	2953	HG21	VAL	X	193	26.261	39.198	32.843	0.00	0.00
ATOM	2954	HG22	VAL	X	193	27.821	39.414	32.032	0.00	0.00
ATOM	2955	HG23	VAL	X	193	27.376	40.698	33.076	0.00	0.00
ATOM	2956	C	VAL	X	193	29.047	36.934	34.914	0.00	0.00
ATOM	2957	O	VAL	X	193	28.668	36.980	36.089	0.00	0.00
ATOM	2958	N	THR	X	194	30.261	36.439	34.599	0.00	0.00
ATOM	2959	H	THR	X	194	30.484	36.516	33.617	0.00	0.00
ATOM	2960	CA	THR	X	194	31.370	35.995	35.460	0.00	0.00
ATOM	2961	HA	THR	X	194	31.114	35.733	36.487	0.00	0.00
ATOM	2962	CB	THR	X	194	31.801	34.680	34.837	0.00	0.00
ATOM	2963	HB	THR	X	194	32.268	34.846	33.867	0.00	0.00
ATOM	2964	CG2	THR	X	194	32.780	34.017	35.875	0.00	0.00
ATOM	2965	HG21	THR	X	194	32.292	34.051	36.849	0.00	0.00
ATOM	2966	HG22	THR	X	194	33.698	34.605	35.915	0.00	0.00
ATOM	2967	HG23	THR	X	194	32.982	32.998	35.546	0.00	0.00
ATOM	2968	OG1	THR	X	194	30.737	33.812	34.555	0.00	0.00
ATOM	2969	HG1	THR	X	194	29.886	34.210	34.358	0.00	0.00
ATOM	2970	C	THR	X	194	32.450	36.988	35.329	0.00	0.00
ATOM	2971	O	THR	X	194	32.703	37.495	34.217	0.00	0.00
ATOM	2972	N	LEU	X	195	33.025	37.295	36.509	0.00	0.00
ATOM	2973	H	LEU	X	195	32.748	36.968	37.423	0.00	0.00
ATOM	2974	CA	LEU	X	195	34.267	38.058	36.603	0.00	0.00
ATOM	2975	HA	LEU	X	195	34.412	38.740	35.765	0.00	0.00
ATOM	2976	CB	LEU	X	195	34.359	38.894	37.870	0.00	0.00
ATOM	2977	HB2	LEU	X	195	34.575	38.343	38.785	0.00	0.00
ATOM	2978	HB3	LEU	X	195	35.136	39.629	37.658	0.00	0.00
ATOM	2979	CG	LEU	X	195	33.079	39.659	38.293	0.00	0.00
ATOM	2980	HG	LEU	X	195	32.349	38.955	38.694	0.00	0.00
ATOM	2981	CD1	LEU	X	195	33.300	40.580	39.501	0.00	0.00
ATOM	2982	HD11	LEU	X	195	33.991	40.145	40.223	0.00	0.00
ATOM	2983	HD12	LEU	X	195	32.355	40.734	40.021	0.00	0.00
ATOM	2984	HD13	LEU	X	195	33.772	41.515	39.197	0.00	0.00
ATOM	2985	CD2	LEU	X	195	32.350	40.374	37.119	0.00	0.00
ATOM	2986	HD21	LEU	X	195	31.477	40.881	37.530	0.00	0.00
ATOM	2987	HD22	LEU	X	195	32.945	41.129	36.606	0.00	0.00
ATOM	2988	HD23	LEU	X	195	31.918	39.669	36.408	0.00	0.00
ATOM	2989	C	LEU	X	195	35.447	37.040	36.640	0.00	0.00
ATOM	2990	O	LEU	X	195	35.339	36.057	37.346	0.00	0.00
ATOM	2991	N	PHE	X	196	36.612	37.489	36.111	0.00	0.00
ATOM	2992	H	PHE	X	196	36.684	38.319	35.541	0.00	0.00
ATOM	2993	CA	PHE	X	196	37.849	36.726	36.424	0.00	0.00
ATOM	2994	HA	PHE	X	196	37.622	36.353	37.422	0.00	0.00
ATOM	2995	CB	PHE	X	196	38.108	35.606	35.364	0.00	0.00
ATOM	2996	HB2	PHE	X	196	38.956	35.038	35.748	0.00	0.00
ATOM	2997	HB3	PHE	X	196	37.224	34.970	35.317	0.00	0.00
ATOM	2998	CG	PHE	X	196	38.352	35.973	33.868	0.00	0.00
ATOM	2999	CD1	PHE	X	196	37.564	36.877	33.152	0.00	0.00
ATOM	3000	HD1	PHE	X	196	36.728	37.283	33.702	0.00	0.00
ATOM	3001	CE1	PHE	X	196	37.937	37.192	31.846	0.00	0.00
ATOM	3002	HE1	PHE	X	196	37.368	37.945	31.322	0.00	0.00
ATOM	3003	CZ	PHE	X	196	39.069	36.559	31.220	0.00	0.00
ATOM	3004	HZ	PHE	X	196	39.307	36.799	30.194	0.00	0.00
ATOM	3005	CE2	PHE	X	196	39.864	35.643	31.916	0.00	0.00
ATOM	3006	HE2	PHE	X	196	40.715	35.145	31.477	0.00	0.00
ATOM	3007	CD2	PHE	X	196	39.422	35.319	33.216	0.00	0.00
ATOM	3008	HD2	PHE	X	196	40.032	34.640	33.793	0.00	0.00
ATOM	3009	C	PHE	X	196	38.977	37.763	36.634	0.00	0.00
ATOM	3010	O	PHE	X	196	38.908	38.939	36.173	0.00	0.00
ATOM	3011	N	GLY	X	197	40.070	37.378	37.342	0.00	0.00
ATOM	3012	H	GLY	X	197	39.974	36.480	37.794	0.00	0.00
ATOM	3013	CA	GLY	X	197	41.352	38.116	37.440	0.00	0.00

ATOM	3014	HA2	GLY	X	197	41.747	38.578	36.535	0.00	0.00
ATOM	3015	HA3	GLY	X	197	41.134	38.964	38.088	0.00	0.00
ATOM	3016	C	GLY	X	197	42.403	37.453	38.114	0.00	0.00
ATOM	3017	O	GLY	X	197	42.128	36.359	38.610	0.00	0.00
ATOM	3018	N	GLU	X	198	43.574	38.048	38.170	0.00	0.00
ATOM	3019	H	GLU	X	198	43.681	38.978	37.791	0.00	0.00
ATOM	3020	CA	GLU	X	198	44.678	37.521	38.910	0.00	0.00
ATOM	3021	HA	GLU	X	198	44.375	36.623	39.448	0.00	0.00
ATOM	3022	CB	GLU	X	198	45.770	36.981	38.002	0.00	0.00
ATOM	3023	HB2	GLU	X	198	46.629	36.877	38.666	0.00	0.00
ATOM	3024	HB3	GLU	X	198	45.557	36.018	37.538	0.00	0.00
ATOM	3025	CG	GLU	X	198	46.350	37.894	36.911	0.00	0.00
ATOM	3026	HG2	GLU	X	198	47.241	37.368	36.569	0.00	0.00
ATOM	3027	HG3	GLU	X	198	45.580	37.933	36.140	0.00	0.00
ATOM	3028	CD	GLU	X	198	46.855	39.331	37.114	0.00	0.00
ATOM	3029	OE1	GLU	X	198	46.452	40.206	36.269	0.00	0.00
ATOM	3030	OE2	GLU	X	198	47.699	39.529	38.061	0.00	0.00
ATOM	3031	C	GLU	X	198	45.230	38.551	39.878	0.00	0.00
ATOM	3032	O	GLU	X	198	45.003	39.797	39.776	0.00	0.00
ATOM	3033	N	XA1	X	199	45.846	38.109	40.949	0.00	0.00
ATOM	3034	CA	XA1	X	199	46.452	38.980	41.909	0.00	0.00
ATOM	3035	C	XA1	X	199	45.510	40.059	42.576	0.00	0.00
ATOM	3036	O	XA1	X	199	44.525	39.662	43.222	0.00	0.00
ATOM	3037	CB	XA1	X	199	47.814	39.593	41.362	0.00	0.00
ATOM	3038	OG	XA1	X	199	48.690	39.830	42.449	0.00	0.00
ATOM	3039	P1	XA1	X	199	49.447	41.106	42.348	0.00	0.00
ATOM	3040	O1	XA1	X	199	48.591	42.224	41.957	0.00	0.00
ATOM	3041	O2	XA1	X	199	50.640	40.810	41.528	0.00	0.00
ATOM	3042	C1	XA1	X	199	49.943	41.283	44.040	0.00	0.00
ATOM	3043	H	XA1	X	199	45.929	37.123	41.149	0.00	0.00
ATOM	3044	HA	XA1	X	199	46.645	38.279	42.722	0.00	0.00
ATOM	3045	HB2	XA1	X	199	48.320	38.982	40.610	0.00	0.00
ATOM	3046	HB3	XA1	X	199	47.536	40.488	40.801	0.00	0.00
ATOM	3047	H11	XA1	X	199	49.412	40.496	44.580	0.00	0.00
ATOM	3048	H12	XA1	X	199	51.011	41.101	44.184	0.00	0.00
ATOM	3049	H13	XA1	X	199	49.553	42.194	44.500	0.00	0.00
ATOM	3050	N	ALA	X	200	45.833	41.344	42.423	0.00	0.00
ATOM	3051	H	ALA	X	200	46.599	41.685	41.860	0.00	0.00
ATOM	3052	CA	ALA	X	200	45.008	42.537	42.869	0.00	0.00
ATOM	3053	HA	ALA	X	200	44.701	42.370	43.901	0.00	0.00
ATOM	3054	CB	ALA	X	200	45.876	43.808	42.535	0.00	0.00
ATOM	3055	HB1	ALA	X	200	45.987	44.033	41.474	0.00	0.00
ATOM	3056	HB2	ALA	X	200	46.793	43.559	43.069	0.00	0.00
ATOM	3057	HB3	ALA	X	200	45.473	44.674	43.059	0.00	0.00
ATOM	3058	C	ALA	X	200	43.665	42.575	42.116	0.00	0.00
ATOM	3059	O	ALA	X	200	42.670	42.934	42.750	0.00	0.00
ATOM	3060	N	GLY	X	201	43.545	41.948	40.958	0.00	0.00
ATOM	3061	H	GLY	X	201	44.411	41.611	40.563	0.00	0.00
ATOM	3062	CA	GLY	X	201	42.361	41.642	40.255	0.00	0.00
ATOM	3063	HA2	GLY	X	201	41.773	42.532	40.031	0.00	0.00
ATOM	3064	HA3	GLY	X	201	42.747	41.193	39.341	0.00	0.00
ATOM	3065	C	GLY	X	201	41.459	40.619	41.030	0.00	0.00
ATOM	3066	O	GLY	X	201	40.264	40.831	41.382	0.00	0.00
ATOM	3067	N	ALA	X	202	42.107	39.502	41.326	0.00	0.00
ATOM	3068	H	ALA	X	202	43.008	39.305	40.916	0.00	0.00
ATOM	3069	CA	ALA	X	202	41.488	38.428	42.053	0.00	0.00
ATOM	3070	HA	ALA	X	202	40.618	38.089	41.491	0.00	0.00
ATOM	3071	CB	ALA	X	202	42.519	37.314	42.197	0.00	0.00
ATOM	3072	HB1	ALA	X	202	42.768	36.913	41.215	0.00	0.00
ATOM	3073	HB2	ALA	X	202	42.103	36.436	42.691	0.00	0.00
ATOM	3074	HB3	ALA	X	202	43.437	37.625	42.695	0.00	0.00
ATOM	3075	C	ALA	X	202	41.087	38.892	43.489	0.00	0.00
ATOM	3076	O	ALA	X	202	40.009	38.568	43.932	0.00	0.00
ATOM	3077	N	ALA	X	203	41.944	39.789	44.109	0.00	0.00
ATOM	3078	H	ALA	X	203	42.749	40.153	43.619	0.00	0.00
ATOM	3079	CA	ALA	X	203	41.522	40.466	45.353	0.00	0.00
ATOM	3080	HA	ALA	X	203	41.219	39.733	46.101	0.00	0.00

ATOM	3081	CB	ALA	X	203	42.739	41.098	46.123	0.00	0.00
ATOM	3082	HB1	ALA	X	203	42.958	42.116	45.798	0.00	0.00
ATOM	3083	HB2	ALA	X	203	43.530	40.369	45.947	0.00	0.00
ATOM	3084	HB3	ALA	X	203	42.531	41.092	47.193	0.00	0.00
ATOM	3085	C	ALA	X	203	40.382	41.538	45.134	0.00	0.00
ATOM	3086	O	ALA	X	203	39.496	41.625	45.961	0.00	0.00
ATOM	3087	N	SER	X	204	40.294	42.182	43.936	0.00	0.00
ATOM	3088	H	SER	X	204	41.131	42.140	43.372	0.00	0.00
ATOM	3089	CA	SER	X	204	39.140	43.085	43.581	0.00	0.00
ATOM	3090	HA	SER	X	204	38.956	43.776	44.404	0.00	0.00
ATOM	3091	CB	SER	X	204	39.397	43.902	42.365	0.00	0.00
ATOM	3092	HB2	SER	X	204	39.360	43.262	41.483	0.00	0.00
ATOM	3093	HB3	SER	X	204	38.534	44.562	42.277	0.00	0.00
ATOM	3094	OG	SER	X	204	40.676	44.651	42.475	0.00	0.00
ATOM	3095	HG	SER	X	204	41.408	44.032	42.432	0.00	0.00
ATOM	3096	C	SER	X	204	37.851	42.264	43.427	0.00	0.00
ATOM	3097	O	SER	X	204	36.829	42.579	43.990	0.00	0.00
ATOM	3098	N	VAL	X	205	37.893	41.092	42.790	0.00	0.00
ATOM	3099	H	VAL	X	205	38.820	40.891	42.443	0.00	0.00
ATOM	3100	CA	VAL	X	205	36.732	40.214	42.648	0.00	0.00
ATOM	3101	HA	VAL	X	205	35.954	40.861	42.241	0.00	0.00
ATOM	3102	CB	VAL	X	205	37.076	39.063	41.670	0.00	0.00
ATOM	3103	HB	VAL	X	205	38.026	38.585	41.909	0.00	0.00
ATOM	3104	CG1	VAL	X	205	36.010	37.916	41.659	0.00	0.00
ATOM	3105	HG11	VAL	X	205	35.031	38.337	41.431	0.00	0.00
ATOM	3106	HG12	VAL	X	205	36.305	37.215	40.878	0.00	0.00
ATOM	3107	HG13	VAL	X	205	35.991	37.434	42.636	0.00	0.00
ATOM	3108	CG2	VAL	X	205	37.226	39.564	40.241	0.00	0.00
ATOM	3109	HG21	VAL	X	205	37.261	38.752	39.514	0.00	0.00
ATOM	3110	HG22	VAL	X	205	38.155	40.114	40.093	0.00	0.00
ATOM	3111	HG23	VAL	X	205	36.364	40.202	40.044	0.00	0.00
ATOM	3112	C	VAL	X	205	36.241	39.634	43.943	0.00	0.00
ATOM	3113	O	VAL	X	205	35.063	39.401	44.152	0.00	0.00
ATOM	3114	N	GLY	X	206	37.200	39.301	44.747	0.00	0.00
ATOM	3115	H	GLY	X	206	38.177	39.411	44.519	0.00	0.00
ATOM	3116	CA	GLY	X	206	37.006	38.956	46.135	0.00	0.00
ATOM	3117	HA2	GLY	X	206	36.329	38.103	46.186	0.00	0.00
ATOM	3118	HA3	GLY	X	206	37.970	38.670	46.558	0.00	0.00
ATOM	3119	C	GLY	X	206	36.504	40.036	47.035	0.00	0.00
ATOM	3120	O	GLY	X	206	36.093	39.816	48.152	0.00	0.00
ATOM	3121	N	MET	X	207	36.580	41.333	46.678	0.00	0.00
ATOM	3122	H	MET	X	207	36.992	41.587	45.791	0.00	0.00
ATOM	3123	CA	MET	X	207	35.928	42.450	47.409	0.00	0.00
ATOM	3124	HA	MET	X	207	35.655	42.308	48.455	0.00	0.00
ATOM	3125	CB	MET	X	207	36.776	43.752	47.315	0.00	0.00
ATOM	3126	HB2	MET	X	207	37.164	43.903	46.307	0.00	0.00
ATOM	3127	HB3	MET	X	207	36.223	44.603	47.713	0.00	0.00
ATOM	3128	CG	MET	X	207	37.951	43.523	48.249	0.00	0.00
ATOM	3129	HG2	MET	X	207	37.555	43.056	49.151	0.00	0.00
ATOM	3130	HG3	MET	X	207	38.581	42.745	47.818	0.00	0.00
ATOM	3131	SD	MET	X	207	39.058	44.799	48.910	0.00	0.00
ATOM	3132	CE	MET	X	207	40.521	44.490	47.891	0.00	0.00
ATOM	3133	HE1	MET	X	207	40.903	43.508	48.171	0.00	0.00
ATOM	3134	HE2	MET	X	207	40.319	44.413	46.823	0.00	0.00
ATOM	3135	HE3	MET	X	207	41.304	45.196	48.167	0.00	0.00
ATOM	3136	C	MET	X	207	34.545	42.648	46.815	0.00	0.00
ATOM	3137	O	MET	X	207	33.616	42.855	47.565	0.00	0.00
ATOM	3138	N	HIE	X	208	34.294	42.498	45.468	0.00	0.00
ATOM	3139	H	HIE	X	208	35.030	42.650	44.793	0.00	0.00
ATOM	3140	CA	HIE	X	208	32.903	42.546	44.853	0.00	0.00
ATOM	3141	HA	HIE	X	208	32.306	43.433	45.064	0.00	0.00
ATOM	3142	CB	HIE	X	208	33.059	42.605	43.342	0.00	0.00
ATOM	3143	HB2	HIE	X	208	33.820	41.896	43.015	0.00	0.00
ATOM	3144	HB3	HIE	X	208	32.152	42.229	42.870	0.00	0.00
ATOM	3145	CG	HIE	X	208	33.583	43.917	42.727	0.00	0.00
ATOM	3146	ND1	HIE	X	208	32.922	45.121	42.696	0.00	0.00
ATOM	3147	CE1	HIE	X	208	33.844	45.954	42.165	0.00	0.00

ATOM	3148	HE1	HIE	X	208	33.741	46.983	41.854	0.00	0.00
ATOM	3149	NE2	HIE	X	208	34.983	45.368	41.867	0.00	0.00
ATOM	3150	HE2	HIE	X	208	35.836	45.778	41.517	0.00	0.00
ATOM	3151	CD2	HIE	X	208	34.809	44.052	42.151	0.00	0.00
ATOM	3152	HD2	HIE	X	208	35.483	43.213	42.065	0.00	0.00
ATOM	3153	C	HIE	X	208	31.987	41.396	45.294	0.00	0.00
ATOM	3154	O	HIE	X	208	30.811	41.621	45.398	0.00	0.00
ATOM	3155	N	LEU	X	209	32.581	40.277	45.710	0.00	0.00
ATOM	3156	H	LEU	X	209	33.511	39.974	45.456	0.00	0.00
ATOM	3157	CA	LEU	X	209	31.867	39.238	46.502	0.00	0.00
ATOM	3158	HA	LEU	X	209	31.004	38.891	45.934	0.00	0.00
ATOM	3159	CB	LEU	X	209	32.916	38.096	46.546	0.00	0.00
ATOM	3160	HB2	LEU	X	209	33.485	38.014	45.619	0.00	0.00
ATOM	3161	HB3	LEU	X	209	33.748	38.375	47.193	0.00	0.00
ATOM	3162	CG	LEU	X	209	32.280	36.766	47.036	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.673	36.941	47.924	0.00	0.00
ATOM	3164	CD1	LEU	X	209	31.385	36.123	45.963	0.00	0.00
ATOM	3165	HD11	LEU	X	209	30.410	36.583	45.803	0.00	0.00
ATOM	3166	HD12	LEU	X	209	31.174	35.117	46.325	0.00	0.00
ATOM	3167	HD13	LEU	X	209	31.871	36.038	44.991	0.00	0.00
ATOM	3168	CD2	LEU	X	209	33.352	35.801	47.505	0.00	0.00
ATOM	3169	HD21	LEU	X	209	33.750	36.324	48.375	0.00	0.00
ATOM	3170	HD22	LEU	X	209	32.910	34.817	47.661	0.00	0.00
ATOM	3171	HD23	LEU	X	209	34.112	35.691	46.731	0.00	0.00
ATOM	3172	C	LEU	X	209	31.438	39.573	47.867	0.00	0.00
ATOM	3173	O	LEU	X	209	30.550	38.875	48.393	0.00	0.00
ATOM	3174	N	LEU	X	210	32.130	40.558	48.456	0.00	0.00
ATOM	3175	H	LEU	X	210	32.817	41.075	47.926	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.836	41.048	49.803	0.00	0.00
ATOM	3177	HA	LEU	X	210	31.180	40.301	50.250	0.00	0.00
ATOM	3178	CB	LEU	X	210	33.142	41.270	50.641	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.745	42.018	50.126	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.825	41.767	51.558	0.00	0.00
ATOM	3181	CG	LEU	X	210	33.996	40.053	50.921	0.00	0.00
ATOM	3182	HG	LEU	X	210	34.182	39.529	49.983	0.00	0.00
ATOM	3183	CD1	LEU	X	210	35.387	40.506	51.511	0.00	0.00
ATOM	3184	HD11	LEU	X	210	35.377	41.100	52.425	0.00	0.00
ATOM	3185	HD12	LEU	X	210	35.943	41.150	50.829	0.00	0.00
ATOM	3186	HD13	LEU	X	210	36.021	39.629	51.643	0.00	0.00
ATOM	3187	CD2	LEU	X	210	33.395	39.075	51.923	0.00	0.00
ATOM	3188	HD21	LEU	X	210	32.463	38.651	51.550	0.00	0.00
ATOM	3189	HD22	LEU	X	210	34.110	38.291	52.172	0.00	0.00
ATOM	3190	HD23	LEU	X	210	33.128	39.558	52.863	0.00	0.00
ATOM	3191	C	LEU	X	210	30.964	42.273	49.842	0.00	0.00
ATOM	3192	O	LEU	X	210	30.061	42.321	50.648	0.00	0.00
ATOM	3193	N	SER	X	211	31.079	43.254	48.941	0.00	0.00
ATOM	3194	H	SER	X	211	31.920	43.365	48.392	0.00	0.00
ATOM	3195	CA	SER	X	211	30.277	44.470	49.050	0.00	0.00
ATOM	3196	HA	SER	X	211	30.177	44.665	50.118	0.00	0.00
ATOM	3197	CB	SER	X	211	31.075	45.647	48.363	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.462	46.548	48.371	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.933	45.767	49.024	0.00	0.00
ATOM	3200	OG	SER	X	211	31.360	45.325	47.027	0.00	0.00
ATOM	3201	HG	SER	X	211	30.513	45.046	46.672	0.00	0.00
ATOM	3202	C	SER	X	211	28.890	44.347	48.421	0.00	0.00
ATOM	3203	O	SER	X	211	28.816	44.231	47.191	0.00	0.00
ATOM	3204	N	PRO	X	212	27.785	44.331	49.176	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.718	44.572	50.589	0.00	0.00
ATOM	3206	HD2	PRO	X	212	27.808	45.651	50.711	0.00	0.00
ATOM	3207	HD3	PRO	X	212	28.448	43.999	51.161	0.00	0.00
ATOM	3208	CG	PRO	X	212	26.389	44.072	51.116	0.00	0.00
ATOM	3209	HG2	PRO	X	212	25.986	44.704	51.908	0.00	0.00
ATOM	3210	HG3	PRO	X	212	26.591	43.088	51.539	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.418	44.027	49.896	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.824	44.939	49.831	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.830	43.110	49.843	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.449	43.970	48.703	0.00	0.00

ATOM	3215	HA	PRO	X	212	26.339	42.900	48.525	0.00	0.00
ATOM	3216	C	PRO	X	212	25.942	44.766	47.476	0.00	0.00
ATOM	3217	O	PRO	X	212	25.228	44.141	46.588	0.00	0.00
ATOM	3218	N	PRO	X	213	26.171	46.089	47.320	0.00	0.00
ATOM	3219	CD	PRO	X	213	26.658	47.027	48.378	0.00	0.00
ATOM	3220	HD2	PRO	X	213	27.742	47.040	48.497	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.304	46.626	49.328	0.00	0.00
ATOM	3222	CG	PRO	X	213	26.024	48.339	47.985	0.00	0.00
ATOM	3223	HG2	PRO	X	213	26.502	49.306	48.140	0.00	0.00
ATOM	3224	HG3	PRO	X	213	25.017	48.352	48.403	0.00	0.00
ATOM	3225	CB	PRO	X	213	25.870	48.259	46.513	0.00	0.00
ATOM	3226	HB2	PRO	X	213	26.658	48.707	45.908	0.00	0.00
ATOM	3227	HB3	PRO	X	213	24.944	48.776	46.260	0.00	0.00
ATOM	3228	CA	PRO	X	213	25.790	46.784	46.151	0.00	0.00
ATOM	3229	HA	PRO	X	213	24.724	46.580	46.049	0.00	0.00
ATOM	3230	C	PRO	X	213	26.625	46.342	44.876	0.00	0.00
ATOM	3231	O	PRO	X	213	26.374	46.927	43.805	0.00	0.00
ATOM	3232	N	SER	X	214	27.617	45.473	44.939	0.00	0.00
ATOM	3233	H	SER	X	214	27.838	44.966	45.784	0.00	0.00
ATOM	3234	CA	SER	X	214	28.208	44.888	43.688	0.00	0.00
ATOM	3235	HA	SER	X	214	28.053	45.487	42.791	0.00	0.00
ATOM	3236	CB	SER	X	214	29.760	44.703	43.855	0.00	0.00
ATOM	3237	HB2	SER	X	214	29.915	44.139	44.775	0.00	0.00
ATOM	3238	HB3	SER	X	214	30.173	44.199	42.981	0.00	0.00
ATOM	3239	OG	SER	X	214	30.457	45.907	44.069	0.00	0.00
ATOM	3240	HG	SER	X	214	31.306	45.736	43.655	0.00	0.00
ATOM	3241	C	SER	X	214	27.558	43.515	43.370	0.00	0.00
ATOM	3242	O	SER	X	214	27.566	43.192	42.182	0.00	0.00
ATOM	3243	N	ARG	X	215	27.126	42.698	44.376	0.00	0.00
ATOM	3244	H	ARG	X	215	27.116	43.009	45.336	0.00	0.00
ATOM	3245	CA	ARG	X	215	26.629	41.374	44.147	0.00	0.00
ATOM	3246	HA	ARG	X	215	27.483	40.895	43.668	0.00	0.00
ATOM	3247	CB	ARG	X	215	26.309	40.710	45.551	0.00	0.00
ATOM	3248	HB2	ARG	X	215	25.753	41.389	46.197	0.00	0.00
ATOM	3249	HB3	ARG	X	215	25.649	39.847	45.469	0.00	0.00
ATOM	3250	CG	ARG	X	215	27.587	40.315	46.341	0.00	0.00
ATOM	3251	HG2	ARG	X	215	28.263	39.820	45.644	0.00	0.00
ATOM	3252	HG3	ARG	X	215	28.032	41.241	46.705	0.00	0.00
ATOM	3253	CD	ARG	X	215	27.225	39.273	47.461	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.535	38.493	47.137	0.00	0.00
ATOM	3255	HD3	ARG	X	215	28.133	38.734	47.732	0.00	0.00
ATOM	3256	NE	ARG	X	215	26.650	39.975	48.639	0.00	0.00
ATOM	3257	HE	ARG	X	215	25.670	40.215	48.589	0.00	0.00
ATOM	3258	CZ	ARG	X	215	27.294	40.073	49.826	0.00	0.00
ATOM	3259	NH1	ARG	X	215	28.559	39.851	49.986	0.00	0.00
ATOM	3260	HH11	ARG	X	215	29.106	39.514	49.207	0.00	0.00
ATOM	3261	HH12	ARG	X	215	28.849	39.691	50.941	0.00	0.00
ATOM	3262	NH2	ARG	X	215	26.616	40.433	50.874	0.00	0.00
ATOM	3263	HH21	ARG	X	215	25.614	40.353	50.778	0.00	0.00
ATOM	3264	HH22	ARG	X	215	27.043	40.472	51.789	0.00	0.00
ATOM	3265	C	ARG	X	215	25.431	41.289	43.163	0.00	0.00
ATOM	3266	O	ARG	X	215	25.280	40.332	42.426	0.00	0.00
ATOM	3267	N	GLY	X	216	24.622	42.297	43.100	0.00	0.00
ATOM	3268	H	GLY	X	216	24.730	43.093	43.712	0.00	0.00
ATOM	3269	CA	GLY	X	216	23.467	42.340	42.150	0.00	0.00
ATOM	3270	HA2	GLY	X	216	22.856	41.439	42.198	0.00	0.00
ATOM	3271	HA3	GLY	X	216	22.872	43.203	42.449	0.00	0.00
ATOM	3272	C	GLY	X	216	23.926	42.540	40.680	0.00	0.00
ATOM	3273	O	GLY	X	216	23.109	42.358	39.724	0.00	0.00
ATOM	3274	N	LEU	X	217	25.172	42.910	40.468	0.00	0.00
ATOM	3275	H	LEU	X	217	25.750	43.321	41.187	0.00	0.00
ATOM	3276	CA	LEU	X	217	25.648	43.225	39.075	0.00	0.00
ATOM	3277	HA	LEU	X	217	24.904	43.436	38.307	0.00	0.00
ATOM	3278	CB	LEU	X	217	26.706	44.423	39.140	0.00	0.00
ATOM	3279	HB2	LEU	X	217	27.645	44.170	39.632	0.00	0.00
ATOM	3280	HB3	LEU	X	217	26.991	44.738	38.137	0.00	0.00
ATOM	3281	CG	LEU	X	217	26.136	45.691	39.831	0.00	0.00

ATOM	3282	HG	LEU	X	217	25.872	45.520	40.875	0.00	0.00
ATOM	3283	CD1	LEU	X	217	27.065	46.882	39.652	0.00	0.00
ATOM	3284	HD11	LEU	X	217	26.610	47.667	40.255	0.00	0.00
ATOM	3285	HD12	LEU	X	217	27.072	47.250	38.626	0.00	0.00
ATOM	3286	HD13	LEU	X	217	28.084	46.645	39.961	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.898	46.255	39.175	0.00	0.00
ATOM	3288	HD21	LEU	X	217	24.014	45.620	39.225	0.00	0.00
ATOM	3289	HD22	LEU	X	217	24.584	47.140	39.729	0.00	0.00
ATOM	3290	HD23	LEU	X	217	25.066	46.464	38.118	0.00	0.00
ATOM	3291	C	LEU	X	217	26.335	42.047	38.404	0.00	0.00
ATOM	3292	O	LEU	X	217	26.713	42.218	37.219	0.00	0.00
ATOM	3293	N	PHE	X	218	26.593	40.996	39.148	0.00	0.00
ATOM	3294	H	PHE	X	218	26.303	40.893	40.110	0.00	0.00
ATOM	3295	CA	PHE	X	218	27.328	39.786	38.581	0.00	0.00
ATOM	3296	HA	PHE	X	218	27.009	39.676	37.544	0.00	0.00
ATOM	3297	CB	PHE	X	218	28.817	40.098	38.510	0.00	0.00
ATOM	3298	HB2	PHE	X	218	29.259	39.382	37.816	0.00	0.00
ATOM	3299	HB3	PHE	X	218	29.034	41.139	38.270	0.00	0.00
ATOM	3300	CG	PHE	X	218	29.506	39.944	39.859	0.00	0.00
ATOM	3301	CD1	PHE	X	218	29.375	40.971	40.833	0.00	0.00
ATOM	3302	HD1	PHE	X	218	28.913	41.919	40.600	0.00	0.00
ATOM	3303	CE1	PHE	X	218	29.856	40.798	42.158	0.00	0.00
ATOM	3304	HE1	PHE	X	218	29.779	41.585	42.894	0.00	0.00
ATOM	3305	CZ	PHE	X	218	30.593	39.660	42.502	0.00	0.00
ATOM	3306	HZ	PHE	X	218	30.993	39.647	43.504	0.00	0.00
ATOM	3307	CE2	PHE	X	218	30.726	38.662	41.564	0.00	0.00
ATOM	3308	HE2	PHE	X	218	31.344	37.802	41.778	0.00	0.00
ATOM	3309	CD2	PHE	X	218	30.287	38.809	40.234	0.00	0.00
ATOM	3310	HD2	PHE	X	218	30.441	38.023	39.509	0.00	0.00
ATOM	3311	C	PHE	X	218	27.071	38.418	39.267	0.00	0.00
ATOM	3312	O	PHE	X	218	27.050	38.268	40.503	0.00	0.00
ATOM	3313	N	HIE	X	219	27.209	37.338	38.504	0.00	0.00
ATOM	3314	H	HIE	X	219	27.549	37.542	37.575	0.00	0.00
ATOM	3315	CA	HIE	X	219	26.556	36.051	38.765	0.00	0.00
ATOM	3316	HA	HIE	X	219	25.773	36.178	39.513	0.00	0.00
ATOM	3317	CB	HIE	X	219	25.985	35.515	37.474	0.00	0.00
ATOM	3318	HB2	HIE	X	219	26.771	35.467	36.721	0.00	0.00
ATOM	3319	HB3	HIE	X	219	25.479	34.551	37.521	0.00	0.00
ATOM	3320	CG	HIE	X	219	24.956	36.434	36.881	0.00	0.00
ATOM	3321	ND1	HIE	X	219	25.344	37.450	36.055	0.00	0.00
ATOM	3322	CE1	HIE	X	219	24.275	38.294	36.107	0.00	0.00
ATOM	3323	HE1	HIE	X	219	24.247	39.331	35.806	0.00	0.00
ATOM	3324	NE2	HIE	X	219	23.192	37.755	36.696	0.00	0.00
ATOM	3325	HE2	HIE	X	219	22.329	38.212	36.952	0.00	0.00
ATOM	3326	CD2	HIE	X	219	23.632	36.545	37.262	0.00	0.00
ATOM	3327	HD2	HIE	X	219	23.157	35.875	37.964	0.00	0.00
ATOM	3328	C	HIE	X	219	27.640	35.025	39.295	0.00	0.00
ATOM	3329	O	HIE	X	219	27.294	34.090	39.921	0.00	0.00
ATOM	3330	N	ARG	X	220	28.964	35.194	39.041	0.00	0.00
ATOM	3331	H	ARG	X	220	29.227	36.091	38.659	0.00	0.00
ATOM	3332	CA	ARG	X	220	30.032	34.151	39.133	0.00	0.00
ATOM	3333	HA	ARG	X	220	29.936	33.591	40.064	0.00	0.00
ATOM	3334	CB	ARG	X	220	30.000	33.098	37.986	0.00	0.00
ATOM	3335	HB2	ARG	X	220	29.924	33.709	37.086	0.00	0.00
ATOM	3336	HB3	ARG	X	220	30.925	32.522	37.964	0.00	0.00
ATOM	3337	CG	ARG	X	220	28.789	32.068	37.972	0.00	0.00
ATOM	3338	HG2	ARG	X	220	28.672	31.650	38.972	0.00	0.00
ATOM	3339	HG3	ARG	X	220	27.968	32.699	37.632	0.00	0.00
ATOM	3340	CD	ARG	X	220	28.943	30.884	37.103	0.00	0.00
ATOM	3341	HD2	ARG	X	220	29.217	31.147	36.081	0.00	0.00
ATOM	3342	HD3	ARG	X	220	29.808	30.321	37.452	0.00	0.00
ATOM	3343	NE	ARG	X	220	27.720	30.059	37.138	0.00	0.00
ATOM	3344	HE	ARG	X	220	27.510	29.677	38.050	0.00	0.00
ATOM	3345	CZ	ARG	X	220	26.804	29.812	36.166	0.00	0.00
ATOM	3346	NH1	ARG	X	220	26.982	30.186	34.903	0.00	0.00
ATOM	3347	HH11	ARG	X	220	27.838	30.611	34.576	0.00	0.00
ATOM	3348	HH12	ARG	X	220	26.182	30.026	34.309	0.00	0.00

ATOM	3349	NH2	ARG	X	220	25.662	29.258	36.476	0.00	0.00
ATOM	3350	HH21	ARG	X	220	25.389	29.186	37.445	0.00	0.00
ATOM	3351	HH22	ARG	X	220	25.078	29.067	35.675	0.00	0.00
ATOM	3352	C	ARG	X	220	31.399	34.838	39.238	0.00	0.00
ATOM	3353	O	ARG	X	220	31.679	35.943	38.705	0.00	0.00
ATOM	3354	N	ALA	X	221	32.326	34.158	39.932	0.00	0.00
ATOM	3355	H	ALA	X	221	32.077	33.240	40.272	0.00	0.00
ATOM	3356	CA	ALA	X	221	33.558	34.881	40.234	0.00	0.00
ATOM	3357	HA	ALA	X	221	33.853	35.694	39.571	0.00	0.00
ATOM	3358	CB	ALA	X	221	33.557	35.470	41.629	0.00	0.00
ATOM	3359	HB1	ALA	X	221	33.214	36.505	41.624	0.00	0.00
ATOM	3360	HB2	ALA	X	221	34.591	35.534	41.967	0.00	0.00
ATOM	3361	HB3	ALA	X	221	32.932	34.884	42.303	0.00	0.00
ATOM	3362	C	ALA	X	221	34.753	33.856	40.217	0.00	0.00
ATOM	3363	O	ALA	X	221	34.739	32.910	40.945	0.00	0.00
ATOM	3364	N	VAL	X	222	35.770	34.165	39.441	0.00	0.00
ATOM	3365	H	VAL	X	222	35.790	35.072	38.997	0.00	0.00
ATOM	3366	CA	VAL	X	222	37.060	33.434	39.295	0.00	0.00
ATOM	3367	HA	VAL	X	222	36.895	32.491	39.818	0.00	0.00
ATOM	3368	CB	VAL	X	222	37.329	33.120	37.832	0.00	0.00
ATOM	3369	HB	VAL	X	222	37.376	34.040	37.249	0.00	0.00
ATOM	3370	CG1	VAL	X	222	38.692	32.318	37.609	0.00	0.00
ATOM	3371	HG11	VAL	X	222	38.692	31.380	38.163	0.00	0.00
ATOM	3372	HG12	VAL	X	222	38.782	32.131	36.539	0.00	0.00
ATOM	3373	HG13	VAL	X	222	39.485	32.977	37.964	0.00	0.00
ATOM	3374	CG2	VAL	X	222	36.263	32.212	37.241	0.00	0.00
ATOM	3375	HG21	VAL	X	222	36.567	31.795	36.281	0.00	0.00
ATOM	3376	HG22	VAL	X	222	35.424	32.878	37.041	0.00	0.00
ATOM	3377	HG23	VAL	X	222	36.061	31.342	37.865	0.00	0.00
ATOM	3378	C	VAL	X	222	38.226	34.165	39.863	0.00	0.00
ATOM	3379	O	VAL	X	222	38.369	35.373	39.548	0.00	0.00
ATOM	3380	N	LEU	X	223	39.049	33.620	40.740	0.00	0.00
ATOM	3381	H	LEU	X	223	38.875	32.647	40.946	0.00	0.00
ATOM	3382	CA	LEU	X	223	40.160	34.275	41.500	0.00	0.00
ATOM	3383	HA	LEU	X	223	40.380	35.284	41.152	0.00	0.00
ATOM	3384	CB	LEU	X	223	39.813	34.297	42.993	0.00	0.00
ATOM	3385	HB2	LEU	X	223	39.410	33.323	43.270	0.00	0.00
ATOM	3386	HB3	LEU	X	223	40.725	34.366	43.585	0.00	0.00
ATOM	3387	CG	LEU	X	223	38.828	35.379	43.510	0.00	0.00
ATOM	3388	HG	LEU	X	223	38.977	36.288	42.928	0.00	0.00
ATOM	3389	CD1	LEU	X	223	37.365	34.923	43.277	0.00	0.00
ATOM	3390	HD11	LEU	X	223	37.341	34.853	42.190	0.00	0.00
ATOM	3391	HD12	LEU	X	223	36.792	35.815	43.529	0.00	0.00
ATOM	3392	HD13	LEU	X	223	37.060	34.064	43.876	0.00	0.00
ATOM	3393	CD2	LEU	X	223	39.101	35.555	44.986	0.00	0.00
ATOM	3394	HD21	LEU	X	223	38.818	34.618	45.465	0.00	0.00
ATOM	3395	HD22	LEU	X	223	40.160	35.735	45.173	0.00	0.00
ATOM	3396	HD23	LEU	X	223	38.487	36.406	45.279	0.00	0.00
ATOM	3397	C	LEU	X	223	41.520	33.552	41.328	0.00	0.00
ATOM	3398	O	LEU	X	223	41.675	32.410	41.754	0.00	0.00
ATOM	3399	N	GLN	X	224	42.502	34.131	40.656	0.00	0.00
ATOM	3400	H	GLN	X	224	42.209	35.001	40.235	0.00	0.00
ATOM	3401	CA	GLN	X	224	43.788	33.537	40.267	0.00	0.00
ATOM	3402	HA	GLN	X	224	43.766	32.472	40.500	0.00	0.00
ATOM	3403	CB	GLN	X	224	43.969	33.493	38.771	0.00	0.00
ATOM	3404	HB2	GLN	X	224	44.249	34.493	38.441	0.00	0.00
ATOM	3405	HB3	GLN	X	224	44.801	32.790	38.719	0.00	0.00
ATOM	3406	CG	GLN	X	224	42.809	32.927	37.929	0.00	0.00
ATOM	3407	HG2	GLN	X	224	42.683	31.908	38.294	0.00	0.00
ATOM	3408	HG3	GLN	X	224	41.835	33.392	38.086	0.00	0.00
ATOM	3409	CD	GLN	X	224	42.997	32.845	36.467	0.00	0.00
ATOM	3410	OE1	GLN	X	224	42.089	33.056	35.652	0.00	0.00
ATOM	3411	NE2	GLN	X	224	44.162	32.712	35.880	0.00	0.00
ATOM	3412	HE21	GLN	X	224	44.133	32.611	34.876	0.00	0.00
ATOM	3413	HE22	GLN	X	224	44.974	32.467	36.429	0.00	0.00
ATOM	3414	C	GLN	X	224	44.953	34.098	41.034	0.00	0.00
ATOM	3415	O	GLN	X	224	45.304	35.273	40.907	0.00	0.00

ATOM	3416	N	SER	X	225	45.638	33.256	41.823	0.00	0.00
ATOM	3417	H	SER	X	225	45.275	32.332	42.009	0.00	0.00
ATOM	3418	CA	SER	X	225	46.923	33.607	42.315	0.00	0.00
ATOM	3419	HA	SER	X	225	47.337	32.856	42.987	0.00	0.00
ATOM	3420	CB	SER	X	225	47.938	33.717	41.121	0.00	0.00
ATOM	3421	HB2	SER	X	225	47.759	32.852	40.483	0.00	0.00
ATOM	3422	HB3	SER	X	225	47.645	34.618	40.584	0.00	0.00
ATOM	3423	OG	SER	X	225	49.319	33.862	41.427	0.00	0.00
ATOM	3424	HG	SER	X	225	49.444	33.178	42.089	0.00	0.00
ATOM	3425	C	SER	X	225	46.916	34.821	43.318	0.00	0.00
ATOM	3426	O	SER	X	225	47.982	35.347	43.810	0.00	0.00
ATOM	3427	N	GLY	X	226	45.767	35.282	43.757	0.00	0.00
ATOM	3428	H	GLY	X	226	44.948	34.775	43.456	0.00	0.00
ATOM	3429	CA	GLY	X	226	45.495	36.291	44.849	0.00	0.00
ATOM	3430	HA2	GLY	X	226	46.294	36.431	45.577	0.00	0.00
ATOM	3431	HA3	GLY	X	226	45.572	37.297	44.436	0.00	0.00
ATOM	3432	C	GLY	X	226	44.183	36.078	45.586	0.00	0.00
ATOM	3433	O	GLY	X	226	43.292	35.388	45.151	0.00	0.00
ATOM	3434	N	ALA	X	227	44.051	36.725	46.730	0.00	0.00
ATOM	3435	H	ALA	X	227	44.881	37.123	47.145	0.00	0.00
ATOM	3436	CA	ALA	X	227	42.938	36.582	47.683	0.00	0.00
ATOM	3437	HA	ALA	X	227	42.081	36.332	47.058	0.00	0.00
ATOM	3438	CB	ALA	X	227	43.146	35.372	48.690	0.00	0.00
ATOM	3439	HB1	ALA	X	227	43.761	35.681	49.535	0.00	0.00
ATOM	3440	HB2	ALA	X	227	43.634	34.509	48.239	0.00	0.00
ATOM	3441	HB3	ALA	X	227	42.172	35.063	49.070	0.00	0.00
ATOM	3442	C	ALA	X	227	42.500	37.907	48.326	0.00	0.00
ATOM	3443	O	ALA	X	227	43.312	38.775	48.588	0.00	0.00
ATOM	3444	N	PRO	X	228	41.198	38.079	48.740	0.00	0.00
ATOM	3445	CD	PRO	X	228	40.109	37.269	48.334	0.00	0.00
ATOM	3446	HD2	PRO	X	228	40.250	36.192	48.250	0.00	0.00
ATOM	3447	HD3	PRO	X	228	39.930	37.618	47.317	0.00	0.00
ATOM	3448	CG	PRO	X	228	38.882	37.646	49.160	0.00	0.00
ATOM	3449	HG2	PRO	X	228	38.787	37.044	50.064	0.00	0.00
ATOM	3450	HG3	PRO	X	228	37.987	37.595	48.541	0.00	0.00
ATOM	3451	CB	PRO	X	228	39.191	39.143	49.462	0.00	0.00
ATOM	3452	HB2	PRO	X	228	38.908	39.412	50.479	0.00	0.00
ATOM	3453	HB3	PRO	X	228	38.671	39.768	48.736	0.00	0.00
ATOM	3454	CA	PRO	X	228	40.741	39.290	49.364	0.00	0.00
ATOM	3455	HA	PRO	X	228	41.100	40.204	48.893	0.00	0.00
ATOM	3456	C	PRO	X	228	41.237	39.485	50.815	0.00	0.00
ATOM	3457	O	PRO	X	228	41.776	40.563	51.104	0.00	0.00
ATOM	3458	N	ASN	X	229	41.105	38.439	51.599	0.00	0.00
ATOM	3459	H	ASN	X	229	40.658	37.623	51.206	0.00	0.00
ATOM	3460	CA	ASN	X	229	41.556	38.185	52.949	0.00	0.00
ATOM	3461	HA	ASN	X	229	41.140	39.029	53.499	0.00	0.00
ATOM	3462	CB	ASN	X	229	40.998	36.855	53.401	0.00	0.00
ATOM	3463	HB2	ASN	X	229	41.304	36.709	54.437	0.00	0.00
ATOM	3464	HB3	ASN	X	229	39.913	36.959	53.388	0.00	0.00
ATOM	3465	CG	ASN	X	229	41.191	35.592	52.575	0.00	0.00
ATOM	3466	OD1	ASN	X	229	41.148	35.563	51.345	0.00	0.00
ATOM	3467	ND2	ASN	X	229	41.229	34.455	53.261	0.00	0.00
ATOM	3468	HD21	ASN	X	229	41.461	33.623	52.737	0.00	0.00
ATOM	3469	HD22	ASN	X	229	41.450	34.550	54.242	0.00	0.00
ATOM	3470	C	ASN	X	229	43.084	38.155	53.110	0.00	0.00
ATOM	3471	O	ASN	X	229	43.602	37.762	54.171	0.00	0.00
ATOM	3472	N	GLY	X	230	43.809	38.554	52.038	0.00	0.00
ATOM	3473	H	GLY	X	230	43.296	39.035	51.313	0.00	0.00
ATOM	3474	CA	GLY	X	230	45.308	38.618	51.973	0.00	0.00
ATOM	3475	HA2	GLY	X	230	45.631	37.659	52.378	0.00	0.00
ATOM	3476	HA3	GLY	X	230	45.580	38.673	50.919	0.00	0.00
ATOM	3477	C	GLY	X	230	45.906	39.859	52.641	0.00	0.00
ATOM	3478	O	GLY	X	230	45.424	40.980	52.410	0.00	0.00
ATOM	3479	N	PRO	X	231	46.944	39.657	53.537	0.00	0.00
ATOM	3480	CD	PRO	X	231	47.676	38.376	53.693	0.00	0.00
ATOM	3481	HD2	PRO	X	231	48.237	38.180	52.779	0.00	0.00
ATOM	3482	HD3	PRO	X	231	46.997	37.563	53.950	0.00	0.00

ATOM	3483	CG	PRO	X	231	48.619	38.698	54.911	0.00	0.00
ATOM	3484	HG2	PRO	X	231	49.460	38.011	54.999	0.00	0.00
ATOM	3485	HG3	PRO	X	231	48.130	38.677	55.885	0.00	0.00
ATOM	3486	CB	PRO	X	231	49.019	40.124	54.645	0.00	0.00
ATOM	3487	HB2	PRO	X	231	49.698	40.309	53.812	0.00	0.00
ATOM	3488	HB3	PRO	X	231	49.587	40.450	55.517	0.00	0.00
ATOM	3489	CA	PRO	X	231	47.704	40.735	54.247	0.00	0.00
ATOM	3490	HA	PRO	X	231	47.120	41.013	55.124	0.00	0.00
ATOM	3491	C	PRO	X	231	48.098	42.027	53.480	0.00	0.00
ATOM	3492	O	PRO	X	231	48.035	43.091	54.011	0.00	0.00
ATOM	3493	N	TRP	X	232	48.403	41.923	52.184	0.00	0.00
ATOM	3494	H	TRP	X	232	48.444	40.992	51.796	0.00	0.00
ATOM	3495	CA	TRP	X	232	48.774	42.961	51.262	0.00	0.00
ATOM	3496	HA	TRP	X	232	49.312	43.680	51.881	0.00	0.00
ATOM	3497	CB	TRP	X	232	49.721	42.367	50.155	0.00	0.00
ATOM	3498	HB2	TRP	X	232	49.783	43.107	49.357	0.00	0.00
ATOM	3499	HB3	TRP	X	232	50.669	42.183	50.661	0.00	0.00
ATOM	3500	CG	TRP	X	232	49.175	41.122	49.507	0.00	0.00
ATOM	3501	CD1	TRP	X	232	49.370	39.876	49.964	0.00	0.00
ATOM	3502	HD1	TRP	X	232	49.807	39.569	50.903	0.00	0.00
ATOM	3503	NE1	TRP	X	232	48.665	39.058	49.144	0.00	0.00
ATOM	3504	HE1	TRP	X	232	48.538	38.088	49.396	0.00	0.00
ATOM	3505	CE2	TRP	X	232	48.071	39.673	48.100	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	47.285	39.230	46.981	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	46.982	38.195	46.914	0.00	0.00
ATOM	3508	CH2	TRP	X	232	46.771	40.134	46.102	0.00	0.00
ATOM	3509	HH2	TRP	X	232	45.981	39.877	45.411	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	47.204	41.477	46.216	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	46.842	42.199	45.499	0.00	0.00
ATOM	3512	CE3	TRP	X	232	48.078	41.865	47.307	0.00	0.00
ATOM	3513	HE3	TRP	X	232	48.200	42.936	47.381	0.00	0.00
ATOM	3514	CD2	TRP	X	232	48.499	40.962	48.250	0.00	0.00
ATOM	3515	C	TRP	X	232	47.683	43.703	50.592	0.00	0.00
ATOM	3516	O	TRP	X	232	47.810	44.878	50.167	0.00	0.00
ATOM	3517	N	ALA	X	233	46.486	43.035	50.492	0.00	0.00
ATOM	3518	H	ALA	X	233	46.273	42.093	50.788	0.00	0.00
ATOM	3519	CA	ALA	X	233	45.522	43.558	49.423	0.00	0.00
ATOM	3520	HA	ALA	X	233	45.921	43.908	48.471	0.00	0.00
ATOM	3521	CB	ALA	X	233	44.602	42.430	48.992	0.00	0.00
ATOM	3522	HB1	ALA	X	233	45.250	41.693	48.517	0.00	0.00
ATOM	3523	HB2	ALA	X	233	43.780	42.722	48.339	0.00	0.00
ATOM	3524	HB3	ALA	X	233	44.124	42.012	49.878	0.00	0.00
ATOM	3525	C	ALA	X	233	44.690	44.791	49.993	0.00	0.00
ATOM	3526	O	ALA	X	233	43.890	45.249	49.194	0.00	0.00
ATOM	3527	N	THR	X	234	44.805	45.177	51.311	0.00	0.00
ATOM	3528	H	THR	X	234	45.479	44.677	51.872	0.00	0.00
ATOM	3529	CA	THR	X	234	44.122	46.323	51.973	0.00	0.00
ATOM	3530	HA	THR	X	234	43.903	47.045	51.186	0.00	0.00
ATOM	3531	CB	THR	X	234	42.804	45.934	52.592	0.00	0.00
ATOM	3532	HB	THR	X	234	42.408	46.764	53.178	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.758	45.490	51.613	0.00	0.00
ATOM	3534	HG21	THR	X	234	41.604	46.223	50.821	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.793	45.262	52.066	0.00	0.00
ATOM	3536	HG23	THR	X	234	42.172	44.697	50.990	0.00	0.00
ATOM	3537	OG1	THR	X	234	42.917	44.938	53.588	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.919	44.079	53.158	0.00	0.00
ATOM	3539	C	THR	X	234	44.953	47.038	52.998	0.00	0.00
ATOM	3540	O	THR	X	234	46.001	46.474	53.382	0.00	0.00
ATOM	3541	N	VAL	X	235	44.520	48.182	53.516	0.00	0.00
ATOM	3542	H	VAL	X	235	43.649	48.536	53.149	0.00	0.00
ATOM	3543	CA	VAL	X	235	45.141	48.802	54.733	0.00	0.00
ATOM	3544	HA	VAL	X	235	45.497	47.996	55.375	0.00	0.00
ATOM	3545	CB	VAL	X	235	46.466	49.591	54.287	0.00	0.00
ATOM	3546	HB	VAL	X	235	46.918	49.223	53.366	0.00	0.00
ATOM	3547	CG1	VAL	X	235	46.319	51.102	54.030	0.00	0.00
ATOM	3548	HG11	VAL	X	235	45.975	51.601	54.937	0.00	0.00
ATOM	3549	HG12	VAL	X	235	47.162	51.580	53.530	0.00	0.00

ATOM	3550	HG13	VAL	X	235	45.550	51.159	53.260	0.00	0.00
ATOM	3551	CG2	VAL	X	235	47.572	49.415	55.371	0.00	0.00
ATOM	3552	HG21	VAL	X	235	48.370	50.142	55.220	0.00	0.00
ATOM	3553	HG22	VAL	X	235	47.913	48.383	55.297	0.00	0.00
ATOM	3554	HG23	VAL	X	235	47.153	49.573	56.365	0.00	0.00
ATOM	3555	C	VAL	X	235	44.115	49.467	55.559	0.00	0.00
ATOM	3556	O	VAL	X	235	42.913	49.441	55.263	0.00	0.00
ATOM	3557	N	GLY	X	236	44.427	50.173	56.679	0.00	0.00
ATOM	3558	H	GLY	X	236	45.391	50.070	56.961	0.00	0.00
ATOM	3559	CA	GLY	X	236	43.653	50.889	57.713	0.00	0.00
ATOM	3560	HA2	GLY	X	236	42.625	50.527	57.736	0.00	0.00
ATOM	3561	HA3	GLY	X	236	43.997	50.598	58.705	0.00	0.00
ATOM	3562	C	GLY	X	236	43.776	52.412	57.470	0.00	0.00
ATOM	3563	O	GLY	X	236	44.845	52.840	57.068	0.00	0.00
ATOM	3564	N	MET	X	237	42.717	53.186	57.667	0.00	0.00
ATOM	3565	H	MET	X	237	42.020	52.808	58.292	0.00	0.00
ATOM	3566	CA	MET	X	237	42.701	54.626	57.472	0.00	0.00
ATOM	3567	HA	MET	X	237	42.714	54.742	56.388	0.00	0.00
ATOM	3568	CB	MET	X	237	41.423	55.211	58.156	0.00	0.00
ATOM	3569	HB2	MET	X	237	40.610	54.646	57.701	0.00	0.00
ATOM	3570	HB3	MET	X	237	41.550	54.981	59.214	0.00	0.00
ATOM	3571	CG	MET	X	237	41.225	56.717	57.932	0.00	0.00
ATOM	3572	HG2	MET	X	237	40.377	56.990	58.560	0.00	0.00
ATOM	3573	HG3	MET	X	237	42.126	57.210	58.296	0.00	0.00
ATOM	3574	SD	MET	X	237	40.839	57.210	56.205	0.00	0.00
ATOM	3575	CE	MET	X	237	39.035	56.918	56.030	0.00	0.00
ATOM	3576	HE1	MET	X	237	38.529	57.664	56.643	0.00	0.00
ATOM	3577	HE2	MET	X	237	38.816	57.102	54.978	0.00	0.00
ATOM	3578	HE3	MET	X	237	38.737	55.956	56.446	0.00	0.00
ATOM	3579	C	MET	X	237	44.023	55.413	58.046	0.00	0.00
ATOM	3580	O	MET	X	237	44.354	56.372	57.367	0.00	0.00
ATOM	3581	N	GLY	X	238	44.630	55.144	59.200	0.00	0.00
ATOM	3582	H	GLY	X	238	44.289	54.440	59.840	0.00	0.00
ATOM	3583	CA	GLY	X	238	45.834	55.892	59.637	0.00	0.00
ATOM	3584	HA2	GLY	X	238	45.606	56.931	59.400	0.00	0.00
ATOM	3585	HA3	GLY	X	238	46.037	55.767	60.701	0.00	0.00
ATOM	3586	C	GLY	X	238	47.117	55.484	58.950	0.00	0.00
ATOM	3587	O	GLY	X	238	47.931	56.375	58.833	0.00	0.00
ATOM	3588	N	GLU	X	239	47.215	54.309	58.369	0.00	0.00
ATOM	3589	H	GLU	X	239	46.442	53.663	58.296	0.00	0.00
ATOM	3590	CA	GLU	X	239	48.448	54.006	57.545	0.00	0.00
ATOM	3591	HA	GLU	X	239	49.321	54.311	58.123	0.00	0.00
ATOM	3592	CB	GLU	X	239	48.608	52.490	57.364	0.00	0.00
ATOM	3593	HB2	GLU	X	239	47.583	52.120	57.372	0.00	0.00
ATOM	3594	HB3	GLU	X	239	49.116	52.364	56.407	0.00	0.00
ATOM	3595	CG	GLU	X	239	49.311	51.780	58.533	0.00	0.00
ATOM	3596	HG2	GLU	X	239	48.753	51.902	59.461	0.00	0.00
ATOM	3597	HG3	GLU	X	239	49.125	50.724	58.339	0.00	0.00
ATOM	3598	CD	GLU	X	239	50.849	52.015	58.607	0.00	0.00
ATOM	3599	OE1	GLU	X	239	51.274	52.982	59.335	0.00	0.00
ATOM	3600	OE2	GLU	X	239	51.614	51.403	57.848	0.00	0.00
ATOM	3601	C	GLU	X	239	48.415	54.691	56.246	0.00	0.00
ATOM	3602	O	GLU	X	239	49.336	55.373	55.813	0.00	0.00
ATOM	3603	N	ALA	X	240	47.244	54.564	55.556	0.00	0.00
ATOM	3604	H	ALA	X	240	46.437	54.130	55.980	0.00	0.00
ATOM	3605	CA	ALA	X	240	46.847	55.245	54.265	0.00	0.00
ATOM	3606	HA	ALA	X	240	47.375	54.830	53.406	0.00	0.00
ATOM	3607	CB	ALA	X	240	45.380	54.873	54.121	0.00	0.00
ATOM	3608	HB1	ALA	X	240	44.743	55.232	54.929	0.00	0.00
ATOM	3609	HB2	ALA	X	240	45.279	53.792	54.022	0.00	0.00
ATOM	3610	HB3	ALA	X	240	45.066	55.270	53.155	0.00	0.00
ATOM	3611	C	ALA	X	240	47.031	56.796	54.271	0.00	0.00
ATOM	3612	O	ALA	X	240	47.773	57.380	53.490	0.00	0.00
ATOM	3613	N	ARG	X	241	46.569	57.393	55.378	0.00	0.00
ATOM	3614	H	ARG	X	241	45.978	56.832	55.975	0.00	0.00
ATOM	3615	CA	ARG	X	241	46.804	58.765	55.785	0.00	0.00
ATOM	3616	HA	ARG	X	241	46.545	59.452	54.980	0.00	0.00

ATOM	3617	CB	ARG	X	241	46.149	59.117	57.161	0.00	0.00
ATOM	3618	HB2	ARG	X	241	45.065	59.064	57.064	0.00	0.00
ATOM	3619	HB3	ARG	X	241	46.490	58.392	57.899	0.00	0.00
ATOM	3620	CG	ARG	X	241	46.386	60.512	57.712	0.00	0.00
ATOM	3621	HG2	ARG	X	241	47.445	60.761	57.636	0.00	0.00
ATOM	3622	HG3	ARG	X	241	45.952	61.246	57.032	0.00	0.00
ATOM	3623	CD	ARG	X	241	45.875	60.824	59.129	0.00	0.00
ATOM	3624	HD2	ARG	X	241	44.904	60.337	59.210	0.00	0.00
ATOM	3625	HD3	ARG	X	241	46.581	60.417	59.853	0.00	0.00
ATOM	3626	NE	ARG	X	241	45.655	62.296	59.400	0.00	0.00
ATOM	3627	HE	ARG	X	241	45.413	62.848	58.589	0.00	0.00
ATOM	3628	CZ	ARG	X	241	45.498	62.776	60.618	0.00	0.00
ATOM	3629	NH1	ARG	X	241	45.709	62.173	61.735	0.00	0.00
ATOM	3630	HH11	ARG	X	241	46.479	61.522	61.686	0.00	0.00
ATOM	3631	HH12	ARG	X	241	45.630	62.690	62.599	0.00	0.00
ATOM	3632	NH2	ARG	X	241	44.926	63.963	60.675	0.00	0.00
ATOM	3633	HH21	ARG	X	241	44.822	64.498	59.825	0.00	0.00
ATOM	3634	HH22	ARG	X	241	44.475	64.210	61.544	0.00	0.00
ATOM	3635	C	ARG	X	241	48.317	58.999	55.896	0.00	0.00
ATOM	3636	O	ARG	X	241	48.854	59.881	55.196	0.00	0.00
ATOM	3637	N	ARG	X	242	48.986	58.192	56.703	0.00	0.00
ATOM	3638	H	ARG	X	242	48.479	57.417	57.108	0.00	0.00
ATOM	3639	CA	ARG	X	242	50.400	58.367	57.057	0.00	0.00
ATOM	3640	HA	ARG	X	242	50.600	59.280	57.617	0.00	0.00
ATOM	3641	CB	ARG	X	242	50.958	57.243	58.005	0.00	0.00
ATOM	3642	HB2	ARG	X	242	50.341	57.229	58.903	0.00	0.00
ATOM	3643	HB3	ARG	X	242	50.822	56.289	57.496	0.00	0.00
ATOM	3644	CG	ARG	X	242	52.453	57.419	58.408	0.00	0.00
ATOM	3645	HG2	ARG	X	242	53.011	57.564	57.482	0.00	0.00
ATOM	3646	HG3	ARG	X	242	52.583	58.306	59.027	0.00	0.00
ATOM	3647	CD	ARG	X	242	53.047	56.246	59.246	0.00	0.00
ATOM	3648	HD2	ARG	X	242	54.071	56.496	59.523	0.00	0.00
ATOM	3649	HD3	ARG	X	242	52.411	56.198	60.129	0.00	0.00
ATOM	3650	NE	ARG	X	242	53.066	54.921	58.596	0.00	0.00
ATOM	3651	HE	ARG	X	242	52.400	54.227	58.902	0.00	0.00
ATOM	3652	CZ	ARG	X	242	53.691	54.555	57.439	0.00	0.00
ATOM	3653	NH1	ARG	X	242	54.469	55.364	56.746	0.00	0.00
ATOM	3654	HH11	ARG	X	242	54.923	56.129	57.226	0.00	0.00
ATOM	3655	HH12	ARG	X	242	54.860	55.163	55.837	0.00	0.00
ATOM	3656	NH2	ARG	X	242	53.376	53.505	56.837	0.00	0.00
ATOM	3657	HH21	ARG	X	242	52.752	52.864	57.305	0.00	0.00
ATOM	3658	HH22	ARG	X	242	53.942	53.171	56.070	0.00	0.00
ATOM	3659	C	ARG	X	242	51.205	58.422	55.796	0.00	0.00
ATOM	3660	O	ARG	X	242	52.068	59.303	55.663	0.00	0.00
ATOM	3661	N	ARG	X	243	51.058	57.521	54.757	0.00	0.00
ATOM	3662	H	ARG	X	243	50.369	56.789	54.848	0.00	0.00
ATOM	3663	CA	ARG	X	243	51.707	57.547	53.454	0.00	0.00
ATOM	3664	HA	ARG	X	243	52.779	57.639	53.631	0.00	0.00
ATOM	3665	CB	ARG	X	243	51.314	56.235	52.826	0.00	0.00
ATOM	3666	HB2	ARG	X	243	50.238	56.107	52.947	0.00	0.00
ATOM	3667	HB3	ARG	X	243	51.468	56.399	51.759	0.00	0.00
ATOM	3668	CG	ARG	X	243	52.073	54.955	53.332	0.00	0.00
ATOM	3669	HG2	ARG	X	243	53.064	54.979	52.878	0.00	0.00
ATOM	3670	HG3	ARG	X	243	52.047	55.049	54.417	0.00	0.00
ATOM	3671	CD	ARG	X	243	51.389	53.636	52.853	0.00	0.00
ATOM	3672	HD2	ARG	X	243	50.641	53.457	53.626	0.00	0.00
ATOM	3673	HD3	ARG	X	243	50.947	53.751	51.863	0.00	0.00
ATOM	3674	NE	ARG	X	243	52.356	52.526	52.962	0.00	0.00
ATOM	3675	HE	ARG	X	243	53.287	52.750	53.281	0.00	0.00
ATOM	3676	CZ	ARG	X	243	52.132	51.227	52.837	0.00	0.00
ATOM	3677	NH1	ARG	X	243	50.950	50.739	52.488	0.00	0.00
ATOM	3678	HH11	ARG	X	243	50.252	51.386	52.149	0.00	0.00
ATOM	3679	HH12	ARG	X	243	50.710	49.758	52.499	0.00	0.00
ATOM	3680	NH2	ARG	X	243	53.141	50.506	53.204	0.00	0.00
ATOM	3681	HH21	ARG	X	243	54.026	50.911	53.472	0.00	0.00
ATOM	3682	HH22	ARG	X	243	53.040	49.522	53.409	0.00	0.00
ATOM	3683	C	ARG	X	243	51.211	58.717	52.557	0.00	0.00

ATOM	3684	O	ARG	X	243	51.919	59.282	51.766	0.00	0.00
ATOM	3685	N	ALA	X	244	49.917	59.129	52.659	0.00	0.00
ATOM	3686	H	ALA	X	244	49.289	58.707	53.327	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.458	60.352	51.964	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.567	60.265	50.883	0.00	0.00
ATOM	3689	CB	ALA	X	244	47.937	60.483	52.071	0.00	0.00
ATOM	3690	HB1	ALA	X	244	47.727	61.004	53.005	0.00	0.00
ATOM	3691	HB2	ALA	X	244	47.359	59.561	52.012	0.00	0.00
ATOM	3692	HB3	ALA	X	244	47.602	61.121	51.253	0.00	0.00
ATOM	3693	C	ALA	X	244	50.154	61.750	52.411	0.00	0.00
ATOM	3694	O	ALA	X	244	50.420	62.600	51.638	0.00	0.00
ATOM	3695	N	THR	X	245	50.317	61.898	53.779	0.00	0.00
ATOM	3696	H	THR	X	245	49.928	61.177	54.369	0.00	0.00
ATOM	3697	CA	THR	X	245	50.884	63.077	54.458	0.00	0.00
ATOM	3698	HA	THR	X	245	50.456	63.998	54.062	0.00	0.00
ATOM	3699	CB	THR	X	245	50.603	63.073	55.946	0.00	0.00
ATOM	3700	HB	THR	X	245	51.171	62.341	56.520	0.00	0.00
ATOM	3701	CG2	THR	X	245	50.834	64.471	56.520	0.00	0.00
ATOM	3702	HG21	THR	X	245	51.891	64.728	56.590	0.00	0.00
ATOM	3703	HG22	THR	X	245	50.612	64.519	57.586	0.00	0.00
ATOM	3704	HG23	THR	X	245	50.303	65.259	55.985	0.00	0.00
ATOM	3705	OG1	THR	X	245	49.253	62.739	56.132	0.00	0.00
ATOM	3706	HG1	THR	X	245	48.751	63.318	56.711	0.00	0.00
ATOM	3707	C	THR	X	245	52.422	63.170	54.235	0.00	0.00
ATOM	3708	O	THR	X	245	52.988	64.309	54.168	0.00	0.00
ATOM	3709	N	GLN	X	246	53.080	62.031	54.087	0.00	0.00
ATOM	3710	H	GLN	X	246	52.588	61.153	54.175	0.00	0.00
ATOM	3711	CA	GLN	X	246	54.512	61.898	53.721	0.00	0.00
ATOM	3712	HA	GLN	X	246	55.148	62.634	54.214	0.00	0.00
ATOM	3713	CB	GLN	X	246	55.056	60.501	54.073	0.00	0.00
ATOM	3714	HB2	GLN	X	246	54.286	59.759	53.862	0.00	0.00
ATOM	3715	HB3	GLN	X	246	55.990	60.253	53.570	0.00	0.00
ATOM	3716	CG	GLN	X	246	55.332	60.455	55.622	0.00	0.00
ATOM	3717	HG2	GLN	X	246	56.244	61.028	55.788	0.00	0.00
ATOM	3718	HG3	GLN	X	246	54.521	60.988	56.120	0.00	0.00
ATOM	3719	CD	GLN	X	246	55.613	59.089	56.222	0.00	0.00
ATOM	3720	OE1	GLN	X	246	55.979	58.129	55.497	0.00	0.00
ATOM	3721	NE2	GLN	X	246	55.453	58.900	57.493	0.00	0.00
ATOM	3722	HE21	GLN	X	246	55.941	58.073	57.808	0.00	0.00
ATOM	3723	HE22	GLN	X	246	55.104	59.648	58.073	0.00	0.00
ATOM	3724	C	GLN	X	246	54.739	62.076	52.189	0.00	0.00
ATOM	3725	O	GLN	X	246	55.789	62.581	51.907	0.00	0.00
ATOM	3726	N	LEU	X	247	53.868	61.720	51.254	0.00	0.00
ATOM	3727	H	LEU	X	247	53.034	61.200	51.486	0.00	0.00
ATOM	3728	CA	LEU	X	247	53.935	62.172	49.828	0.00	0.00
ATOM	3729	HA	LEU	X	247	54.855	61.810	49.367	0.00	0.00
ATOM	3730	CB	LEU	X	247	52.662	61.506	49.132	0.00	0.00
ATOM	3731	HB2	LEU	X	247	52.642	60.416	49.137	0.00	0.00
ATOM	3732	HB3	LEU	X	247	51.813	61.816	49.741	0.00	0.00
ATOM	3733	CG	LEU	X	247	52.377	61.959	47.721	0.00	0.00
ATOM	3734	HG	LEU	X	247	52.377	63.048	47.685	0.00	0.00
ATOM	3735	CD1	LEU	X	247	53.485	61.574	46.725	0.00	0.00
ATOM	3736	HD11	LEU	X	247	53.220	61.906	45.721	0.00	0.00
ATOM	3737	HD12	LEU	X	247	53.560	60.492	46.620	0.00	0.00
ATOM	3738	HD13	LEU	X	247	54.450	62.005	46.992	0.00	0.00
ATOM	3739	CD2	LEU	X	247	50.979	61.393	47.216	0.00	0.00
ATOM	3740	HD21	LEU	X	247	50.790	61.628	46.168	0.00	0.00
ATOM	3741	HD22	LEU	X	247	50.977	60.335	47.478	0.00	0.00
ATOM	3742	HD23	LEU	X	247	50.203	61.919	47.771	0.00	0.00
ATOM	3743	C	LEU	X	247	53.817	63.692	49.797	0.00	0.00
ATOM	3744	O	LEU	X	247	54.584	64.396	49.214	0.00	0.00
ATOM	3745	N	ALA	X	248	52.813	64.254	50.529	0.00	0.00
ATOM	3746	H	ALA	X	248	52.168	63.696	51.069	0.00	0.00
ATOM	3747	CA	ALA	X	248	52.567	65.675	50.601	0.00	0.00
ATOM	3748	HA	ALA	X	248	52.288	66.052	49.617	0.00	0.00
ATOM	3749	CB	ALA	X	248	51.330	65.891	51.482	0.00	0.00
ATOM	3750	HB1	ALA	X	248	51.481	65.477	52.479	0.00	0.00

ATOM	3751	HB2	ALA	X	248	50.522	65.298	51.054	0.00	0.00
ATOM	3752	HB3	ALA	X	248	51.194	66.972	51.500	0.00	0.00
ATOM	3753	C	ALA	X	248	53.762	66.533	51.191	0.00	0.00
ATOM	3754	O	ALA	X	248	54.027	67.593	50.661	0.00	0.00
ATOM	3755	N	HIE	X	249	54.445	66.125	52.299	0.00	0.00
ATOM	3756	H	HIE	X	249	54.124	65.240	52.665	0.00	0.00
ATOM	3757	CA	HIE	X	249	55.749	66.713	52.788	0.00	0.00
ATOM	3758	HA	HIE	X	249	55.450	67.702	53.133	0.00	0.00
ATOM	3759	CB	HIE	X	249	56.239	65.852	53.953	0.00	0.00
ATOM	3760	HB2	HIE	X	249	55.461	65.923	54.713	0.00	0.00
ATOM	3761	HB3	HIE	X	249	56.384	64.786	53.778	0.00	0.00
ATOM	3762	CG	HIE	X	249	57.561	66.323	54.548	0.00	0.00
ATOM	3763	ND1	HIE	X	249	58.823	66.008	54.010	0.00	0.00
ATOM	3764	CE1	HIE	X	249	59.711	66.637	54.830	0.00	0.00
ATOM	3765	HE1	HIE	X	249	60.765	66.406	54.800	0.00	0.00
ATOM	3766	NE2	HIE	X	249	59.109	67.325	55.778	0.00	0.00
ATOM	3767	HE2	HIE	X	249	59.583	67.649	56.609	0.00	0.00
ATOM	3768	CD2	HIE	X	249	57.745	67.172	55.621	0.00	0.00
ATOM	3769	HD2	HIE	X	249	56.950	67.641	56.181	0.00	0.00
ATOM	3770	C	HIE	X	249	56.851	66.852	51.746	0.00	0.00
ATOM	3771	O	HIE	X	249	57.468	67.890	51.699	0.00	0.00
ATOM	3772	N	LEU	X	250	57.074	65.818	50.930	0.00	0.00
ATOM	3773	H	LEU	X	250	56.572	64.982	51.196	0.00	0.00
ATOM	3774	CA	LEU	X	250	57.944	65.977	49.731	0.00	0.00
ATOM	3775	HA	LEU	X	250	58.885	66.466	49.982	0.00	0.00
ATOM	3776	CB	LEU	X	250	58.116	64.528	49.116	0.00	0.00
ATOM	3777	HB2	LEU	X	250	58.605	63.887	49.849	0.00	0.00
ATOM	3778	HB3	LEU	X	250	57.087	64.200	48.969	0.00	0.00
ATOM	3779	CG	LEU	X	250	58.987	64.331	47.829	0.00	0.00
ATOM	3780	HG	LEU	X	250	58.520	64.882	47.012	0.00	0.00
ATOM	3781	CD1	LEU	X	250	60.432	64.765	48.048	0.00	0.00
ATOM	3782	HD11	LEU	X	250	60.352	65.733	48.543	0.00	0.00
ATOM	3783	HD12	LEU	X	250	60.820	64.851	47.033	0.00	0.00
ATOM	3784	HD13	LEU	X	250	60.989	64.058	48.663	0.00	0.00
ATOM	3785	CD2	LEU	X	250	58.806	62.938	47.199	0.00	0.00
ATOM	3786	HD21	LEU	X	250	57.787	62.555	47.246	0.00	0.00
ATOM	3787	HD22	LEU	X	250	59.121	62.888	46.156	0.00	0.00
ATOM	3788	HD23	LEU	X	250	59.444	62.318	47.829	0.00	0.00
ATOM	3789	C	LEU	X	250	57.351	66.854	48.582	0.00	0.00
ATOM	3790	O	LEU	X	250	58.041	67.735	48.112	0.00	0.00
ATOM	3791	N	VAL	X	251	56.112	66.633	48.226	0.00	0.00
ATOM	3792	H	VAL	X	251	55.637	65.881	48.704	0.00	0.00
ATOM	3793	CA	VAL	X	251	55.390	67.512	47.193	0.00	0.00
ATOM	3794	HA	VAL	X	251	55.937	67.449	46.253	0.00	0.00
ATOM	3795	CB	VAL	X	251	53.935	66.961	46.960	0.00	0.00
ATOM	3796	HB	VAL	X	251	53.495	66.704	47.923	0.00	0.00
ATOM	3797	CG1	VAL	X	251	53.125	67.767	45.969	0.00	0.00
ATOM	3798	HG11	VAL	X	251	53.663	67.819	45.022	0.00	0.00
ATOM	3799	HG12	VAL	X	251	52.171	67.250	45.866	0.00	0.00
ATOM	3800	HG13	VAL	X	251	52.939	68.789	46.299	0.00	0.00
ATOM	3801	CG2	VAL	X	251	54.032	65.645	46.262	0.00	0.00
ATOM	3802	HG21	VAL	X	251	54.616	65.722	45.345	0.00	0.00
ATOM	3803	HG22	VAL	X	251	53.025	65.252	46.121	0.00	0.00
ATOM	3804	HG23	VAL	X	251	54.544	64.878	46.843	0.00	0.00
ATOM	3805	C	VAL	X	251	55.200	68.943	47.613	0.00	0.00
ATOM	3806	O	VAL	X	251	55.379	69.801	46.690	0.00	0.00
ATOM	3807	N	GLY	X	252	55.121	69.320	48.892	0.00	0.00
ATOM	3808	H	GLY	X	252	55.137	68.643	49.641	0.00	0.00
ATOM	3809	CA	GLY	X	252	54.905	70.687	49.406	0.00	0.00
ATOM	3810	HA2	GLY	X	252	55.422	70.866	50.349	0.00	0.00
ATOM	3811	HA3	GLY	X	252	55.426	71.322	48.690	0.00	0.00
ATOM	3812	C	GLY	X	252	53.444	71.097	49.488	0.00	0.00
ATOM	3813	O	GLY	X	252	53.107	72.274	49.229	0.00	0.00
ATOM	3814	N	CYX	X	253	52.599	70.165	49.933	0.00	0.00
ATOM	3815	H	CYX	X	253	52.944	69.241	50.151	0.00	0.00
ATOM	3816	CA	CYX	X	253	51.193	70.497	50.031	0.00	0.00
ATOM	3817	HA	CYX	X	253	50.956	71.468	49.597	0.00	0.00

ATOM	3818	CB	CYX	X	253	50.463	69.387	49.201	0.00	0.00
ATOM	3819	HB2	CYX	X	253	50.908	68.406	49.363	0.00	0.00
ATOM	3820	HB3	CYX	X	253	49.473	69.285	49.646	0.00	0.00
ATOM	3821	SG	CYX	X	253	50.316	69.774	47.388	0.00	0.00
ATOM	3822	C	CYX	X	253	50.761	70.447	51.458	0.00	0.00
ATOM	3823	O	CYX	X	253	51.068	69.437	52.075	0.00	0.00
ATOM	3824	N	PRO	X	254	50.090	71.517	51.980	0.00	0.00
ATOM	3825	CD	PRO	X	254	49.825	71.639	53.410	0.00	0.00
ATOM	3826	HD2	PRO	X	254	50.750	71.562	53.982	0.00	0.00
ATOM	3827	HD3	PRO	X	254	49.086	70.872	53.640	0.00	0.00
ATOM	3828	CG	PRO	X	254	49.240	73.027	53.668	0.00	0.00
ATOM	3829	HG2	PRO	X	254	49.985	73.808	53.821	0.00	0.00
ATOM	3830	HG3	PRO	X	254	48.397	72.949	54.353	0.00	0.00
ATOM	3831	CB	PRO	X	254	48.642	73.307	52.313	0.00	0.00
ATOM	3832	HB2	PRO	X	254	48.633	74.395	52.246	0.00	0.00
ATOM	3833	HB3	PRO	X	254	47.631	72.906	52.250	0.00	0.00
ATOM	3834	CA	PRO	X	254	49.533	72.658	51.237	0.00	0.00
ATOM	3835	HA	PRO	X	254	49.054	72.352	50.307	0.00	0.00
ATOM	3836	C	PRO	X	254	50.599	73.702	50.844	0.00	0.00
ATOM	3837	O	PRO	X	254	51.731	73.581	51.360	0.00	0.00
ATOM	3838	N	PRO	X	255	50.281	74.744	50.071	0.00	0.00
ATOM	3839	CD	PRO	X	255	49.018	75.074	49.495	0.00	0.00
ATOM	3840	HD2	PRO	X	255	48.437	75.539	50.292	0.00	0.00
ATOM	3841	HD3	PRO	X	255	48.431	74.209	49.189	0.00	0.00
ATOM	3842	CG	PRO	X	255	49.269	76.057	48.363	0.00	0.00
ATOM	3843	HG2	PRO	X	255	48.370	76.633	48.139	0.00	0.00
ATOM	3844	HG3	PRO	X	255	49.568	75.591	47.424	0.00	0.00
ATOM	3845	CB	PRO	X	255	50.492	76.810	48.831	0.00	0.00
ATOM	3846	HB2	PRO	X	255	50.148	77.695	49.367	0.00	0.00
ATOM	3847	HB3	PRO	X	255	51.154	77.149	48.034	0.00	0.00
ATOM	3848	CA	PRO	X	255	51.213	75.783	49.731	0.00	0.00
ATOM	3849	HA	PRO	X	255	52.014	75.418	49.088	0.00	0.00
ATOM	3850	C	PRO	X	255	51.666	76.560	50.999	0.00	0.00
ATOM	3851	O	PRO	X	255	50.866	76.945	51.816	0.00	0.00
ATOM	3852	N	GLY	X	256	53.017	76.844	51.118	0.00	0.00
ATOM	3853	H	GLY	X	256	53.602	76.310	50.491	0.00	0.00
ATOM	3854	CA	GLY	X	256	53.742	77.228	52.361	0.00	0.00
ATOM	3855	HA2	GLY	X	256	54.763	77.523	52.120	0.00	0.00
ATOM	3856	HA3	GLY	X	256	53.143	78.073	52.700	0.00	0.00
ATOM	3857	C	GLY	X	256	53.675	76.178	53.450	0.00	0.00
ATOM	3858	O	GLY	X	256	54.150	76.533	54.565	0.00	0.00
ATOM	3859	N	GLY	X	257	53.161	74.980	53.234	0.00	0.00
ATOM	3860	H	GLY	X	257	53.030	74.800	52.249	0.00	0.00
ATOM	3861	CA	GLY	X	257	53.341	73.903	54.211	0.00	0.00
ATOM	3862	HA2	GLY	X	257	53.992	74.051	55.072	0.00	0.00
ATOM	3863	HA3	GLY	X	257	52.362	73.600	54.584	0.00	0.00
ATOM	3864	C	GLY	X	257	53.853	72.630	53.624	0.00	0.00
ATOM	3865	O	GLY	X	257	54.213	72.639	52.417	0.00	0.00
ATOM	3866	N	THR	X	258	53.724	71.539	54.425	0.00	0.00
ATOM	3867	H	THR	X	258	53.419	71.761	55.362	0.00	0.00
ATOM	3868	CA	THR	X	258	54.362	70.200	54.212	0.00	0.00
ATOM	3869	HA	THR	X	258	54.282	69.920	53.161	0.00	0.00
ATOM	3870	CB	THR	X	258	55.863	70.322	54.575	0.00	0.00
ATOM	3871	HB	THR	X	258	56.152	69.327	54.914	0.00	0.00
ATOM	3872	CG2	THR	X	258	56.757	70.875	53.452	0.00	0.00
ATOM	3873	HG21	THR	X	258	57.809	70.687	53.665	0.00	0.00
ATOM	3874	HG22	THR	X	258	56.572	71.944	53.347	0.00	0.00
ATOM	3875	HG23	THR	X	258	56.468	70.396	52.516	0.00	0.00
ATOM	3876	OG1	THR	X	258	56.034	71.164	55.678	0.00	0.00
ATOM	3877	HG1	THR	X	258	56.783	70.703	56.063	0.00	0.00
ATOM	3878	C	THR	X	258	53.601	69.142	55.011	0.00	0.00
ATOM	3879	O	THR	X	258	54.058	68.753	56.018	0.00	0.00
ATOM	3880	N	GLY	X	259	52.428	68.753	54.523	0.00	0.00
ATOM	3881	H	GLY	X	259	52.108	69.156	53.654	0.00	0.00
ATOM	3882	CA	GLY	X	259	51.637	67.904	55.340	0.00	0.00
ATOM	3883	HA2	GLY	X	259	50.923	67.426	54.669	0.00	0.00
ATOM	3884	HA3	GLY	X	259	52.238	67.140	55.833	0.00	0.00

ATOM	3885	C	GLY	X	259	50.760	68.743	56.355	0.00	0.00
ATOM	3886	O	GLY	X	259	50.925	69.962	56.400	0.00	0.00
ATOM	3887	N	GLY	X	260	49.830	68.120	57.105	0.00	0.00
ATOM	3888	H	GLY	X	260	49.711	67.118	57.072	0.00	0.00
ATOM	3889	CA	GLY	X	260	49.148	68.766	58.244	0.00	0.00
ATOM	3890	HA2	GLY	X	260	49.418	68.093	59.058	0.00	0.00
ATOM	3891	HA3	GLY	X	260	49.353	69.828	58.379	0.00	0.00
ATOM	3892	C	GLY	X	260	47.660	68.469	58.026	0.00	0.00
ATOM	3893	O	GLY	X	260	47.275	67.296	57.943	0.00	0.00
ATOM	3894	N	ASN	X	261	46.778	69.536	58.084	0.00	0.00
ATOM	3895	H	ASN	X	261	47.277	70.414	58.067	0.00	0.00
ATOM	3896	CA	ASN	X	261	45.342	69.487	57.726	0.00	0.00
ATOM	3897	HA	ASN	X	261	45.040	68.928	58.612	0.00	0.00
ATOM	3898	CB	ASN	X	261	44.746	70.920	57.760	0.00	0.00
ATOM	3899	HB2	ASN	X	261	44.918	71.340	58.751	0.00	0.00
ATOM	3900	HB3	ASN	X	261	45.071	71.575	56.952	0.00	0.00
ATOM	3901	CG	ASN	X	261	43.233	70.954	57.675	0.00	0.00
ATOM	3902	OD1	ASN	X	261	42.692	69.870	57.507	0.00	0.00
ATOM	3903	ND2	ASN	X	261	42.641	72.111	57.838	0.00	0.00
ATOM	3904	HD21	ASN	X	261	41.651	72.282	57.733	0.00	0.00
ATOM	3905	HD22	ASN	X	261	43.209	72.931	57.998	0.00	0.00
ATOM	3906	C	ASN	X	261	44.993	68.694	56.476	0.00	0.00
ATOM	3907	O	ASN	X	261	45.330	69.059	55.366	0.00	0.00
ATOM	3908	N	ASP	X	262	44.367	67.512	56.644	0.00	0.00
ATOM	3909	H	ASP	X	262	44.116	67.292	57.597	0.00	0.00
ATOM	3910	CA	ASP	X	262	44.031	66.601	55.541	0.00	0.00
ATOM	3911	HA	ASP	X	262	44.955	66.278	55.061	0.00	0.00
ATOM	3912	CB	ASP	X	262	43.231	65.333	56.100	0.00	0.00
ATOM	3913	HB2	ASP	X	262	42.272	65.736	56.427	0.00	0.00
ATOM	3914	HB3	ASP	X	262	43.047	64.717	55.221	0.00	0.00
ATOM	3915	CG	ASP	X	262	43.978	64.702	57.289	0.00	0.00
ATOM	3916	OD1	ASP	X	262	43.817	65.146	58.435	0.00	0.00
ATOM	3917	OD2	ASP	X	262	44.838	63.800	57.065	0.00	0.00
ATOM	3918	C	ASP	X	262	43.258	67.318	54.345	0.00	0.00
ATOM	3919	O	ASP	X	262	43.523	66.980	53.193	0.00	0.00
ATOM	3920	N	THR	X	263	42.308	68.191	54.706	0.00	0.00
ATOM	3921	H	THR	X	263	42.155	68.415	55.679	0.00	0.00
ATOM	3922	CA	THR	X	263	41.434	69.059	53.772	0.00	0.00
ATOM	3923	HA	THR	X	263	40.892	68.353	53.143	0.00	0.00
ATOM	3924	CB	THR	X	263	40.385	69.909	54.539	0.00	0.00
ATOM	3925	HB	THR	X	263	39.885	70.469	53.749	0.00	0.00
ATOM	3926	CG2	THR	X	263	39.315	69.071	55.296	0.00	0.00
ATOM	3927	HG21	THR	X	263	39.729	68.343	55.993	0.00	0.00
ATOM	3928	HG22	THR	X	263	38.852	68.492	54.497	0.00	0.00
ATOM	3929	HG23	THR	X	263	38.684	69.796	55.810	0.00	0.00
ATOM	3930	OG1	THR	X	263	40.946	70.727	55.502	0.00	0.00
ATOM	3931	HG1	THR	X	263	41.537	70.259	56.097	0.00	0.00
ATOM	3932	C	THR	X	263	42.234	69.938	52.820	0.00	0.00
ATOM	3933	O	THR	X	263	42.104	69.874	51.629	0.00	0.00
ATOM	3934	N	GLU	X	264	43.178	70.760	53.372	0.00	0.00
ATOM	3935	H	GLU	X	264	43.391	70.494	54.323	0.00	0.00
ATOM	3936	CA	GLU	X	264	44.093	71.694	52.746	0.00	0.00
ATOM	3937	HA	GLU	X	264	43.540	72.382	52.107	0.00	0.00
ATOM	3938	CB	GLU	X	264	44.718	72.523	53.864	0.00	0.00
ATOM	3939	HB2	GLU	X	264	45.191	71.859	54.587	0.00	0.00
ATOM	3940	HB3	GLU	X	264	45.521	73.118	53.431	0.00	0.00
ATOM	3941	CG	GLU	X	264	43.730	73.489	54.451	0.00	0.00
ATOM	3942	HG2	GLU	X	264	42.781	72.976	54.607	0.00	0.00
ATOM	3943	HG3	GLU	X	264	44.129	73.856	55.397	0.00	0.00
ATOM	3944	CD	GLU	X	264	43.477	74.686	53.541	0.00	0.00
ATOM	3945	OE1	GLU	X	264	42.746	74.659	52.523	0.00	0.00
ATOM	3946	OE2	GLU	X	264	44.072	75.711	53.824	0.00	0.00
ATOM	3947	C	GLU	X	264	45.173	70.941	51.960	0.00	0.00
ATOM	3948	O	GLU	X	264	45.434	71.233	50.746	0.00	0.00
ATOM	3949	N	LEU	X	265	45.680	69.851	52.520	0.00	0.00
ATOM	3950	H	LEU	X	265	45.213	69.547	53.363	0.00	0.00
ATOM	3951	CA	LEU	X	265	46.425	68.790	51.695	0.00	0.00

ATOM	3952	HA	LEU	X	265	47.389	69.280	51.560	0.00	0.00
ATOM	3953	CB	LEU	X	265	46.684	67.596	52.627	0.00	0.00
ATOM	3954	HB2	LEU	X	265	47.191	68.094	53.453	0.00	0.00
ATOM	3955	HB3	LEU	X	265	45.738	67.102	52.851	0.00	0.00
ATOM	3956	CG	LEU	X	265	47.768	66.587	52.156	0.00	0.00
ATOM	3957	HG	LEU	X	265	48.640	67.186	51.893	0.00	0.00
ATOM	3958	CD1	LEU	X	265	48.106	65.663	53.358	0.00	0.00
ATOM	3959	HD11	LEU	X	265	48.676	66.218	54.103	0.00	0.00
ATOM	3960	HD12	LEU	X	265	48.892	65.008	52.983	0.00	0.00
ATOM	3961	HD13	LEU	X	265	47.255	65.124	53.775	0.00	0.00
ATOM	3962	CD2	LEU	X	265	47.275	65.644	51.023	0.00	0.00
ATOM	3963	HD21	LEU	X	265	47.218	66.076	50.024	0.00	0.00
ATOM	3964	HD22	LEU	X	265	48.023	64.854	50.945	0.00	0.00
ATOM	3965	HD23	LEU	X	265	46.352	65.158	51.337	0.00	0.00
ATOM	3966	C	LEU	X	265	45.725	68.373	50.404	0.00	0.00
ATOM	3967	O	LEU	X	265	46.150	68.693	49.350	0.00	0.00
ATOM	3968	N	VAL	X	266	44.642	67.610	50.539	0.00	0.00
ATOM	3969	H	VAL	X	266	44.203	67.412	51.427	0.00	0.00
ATOM	3970	CA	VAL	X	266	43.982	66.931	49.418	0.00	0.00
ATOM	3971	HA	VAL	X	266	44.731	66.229	49.052	0.00	0.00
ATOM	3972	CB	VAL	X	266	42.888	65.885	49.768	0.00	0.00
ATOM	3973	HB	VAL	X	266	43.235	65.399	50.680	0.00	0.00
ATOM	3974	CG1	VAL	X	266	41.496	66.560	50.072	0.00	0.00
ATOM	3975	HG11	VAL	X	266	40.851	65.731	50.362	0.00	0.00
ATOM	3976	HG12	VAL	X	266	41.575	67.287	50.881	0.00	0.00
ATOM	3977	HG13	VAL	X	266	41.084	67.132	49.241	0.00	0.00
ATOM	3978	CG2	VAL	X	266	42.667	64.858	48.698	0.00	0.00
ATOM	3979	HG21	VAL	X	266	43.537	64.231	48.505	0.00	0.00
ATOM	3980	HG22	VAL	X	266	42.339	65.251	47.736	0.00	0.00
ATOM	3981	HG23	VAL	X	266	41.908	64.137	49.000	0.00	0.00
ATOM	3982	C	VAL	X	266	43.477	67.948	48.374	0.00	0.00
ATOM	3983	O	VAL	X	266	43.496	67.690	47.169	0.00	0.00
ATOM	3984	N	ALA	X	267	43.121	69.151	48.767	0.00	0.00
ATOM	3985	H	ALA	X	267	43.135	69.224	49.774	0.00	0.00
ATOM	3986	CA	ALA	X	267	42.794	70.264	47.861	0.00	0.00
ATOM	3987	HA	ALA	X	267	42.134	69.921	47.064	0.00	0.00
ATOM	3988	CB	ALA	X	267	42.013	71.245	48.750	0.00	0.00
ATOM	3989	HB1	ALA	X	267	41.091	70.723	49.008	0.00	0.00
ATOM	3990	HB2	ALA	X	267	41.889	72.185	48.213	0.00	0.00
ATOM	3991	HB3	ALA	X	267	42.535	71.556	49.655	0.00	0.00
ATOM	3992	C	ALA	X	267	44.122	70.720	47.093	0.00	0.00
ATOM	3993	O	ALA	X	267	44.116	70.641	45.880	0.00	0.00
ATOM	3994	N	CYX	X	268	45.245	70.838	47.754	0.00	0.00
ATOM	3995	H	CYX	X	268	45.284	70.809	48.763	0.00	0.00
ATOM	3996	CA	CYX	X	268	46.562	70.928	47.089	0.00	0.00
ATOM	3997	HA	CYX	X	268	46.472	71.736	46.363	0.00	0.00
ATOM	3998	CB	CYX	X	268	47.663	71.213	48.090	0.00	0.00
ATOM	3999	HB2	CYX	X	268	47.501	72.219	48.479	0.00	0.00
ATOM	4000	HB3	CYX	X	268	47.827	70.551	48.940	0.00	0.00
ATOM	4001	SG	CYX	X	268	49.216	71.530	47.263	0.00	0.00
ATOM	4002	C	CYX	X	268	46.941	69.777	46.238	0.00	0.00
ATOM	4003	O	CYX	X	268	47.432	70.060	45.137	0.00	0.00
ATOM	4004	N	LEU	X	269	46.750	68.550	46.630	0.00	0.00
ATOM	4005	H	LEU	X	269	46.247	68.526	47.505	0.00	0.00
ATOM	4006	CA	LEU	X	269	46.810	67.332	45.810	0.00	0.00
ATOM	4007	HA	LEU	X	269	47.742	67.434	45.254	0.00	0.00
ATOM	4008	CB	LEU	X	269	46.843	66.144	46.742	0.00	0.00
ATOM	4009	HB2	LEU	X	269	47.090	66.491	47.745	0.00	0.00
ATOM	4010	HB3	LEU	X	269	45.832	65.744	46.820	0.00	0.00
ATOM	4011	CG	LEU	X	269	47.965	65.186	46.494	0.00	0.00
ATOM	4012	HG	LEU	X	269	48.008	64.919	45.438	0.00	0.00
ATOM	4013	CD1	LEU	X	269	49.343	65.753	46.966	0.00	0.00
ATOM	4014	HD11	LEU	X	269	49.305	65.895	48.046	0.00	0.00
ATOM	4015	HD12	LEU	X	269	49.651	66.735	46.606	0.00	0.00
ATOM	4016	HD13	LEU	X	269	50.184	65.131	46.660	0.00	0.00
ATOM	4017	CD2	LEU	X	269	47.769	63.803	47.162	0.00	0.00
ATOM	4018	HD21	LEU	X	269	46.728	63.498	47.057	0.00	0.00

ATOM	4019	HD22	LEU	X	269	48.419	63.023	46.765	0.00	0.00
ATOM	4020	HD23	LEU	X	269	47.981	63.922	48.224	0.00	0.00
ATOM	4021	C	LEU	X	269	45.835	67.168	44.705	0.00	0.00
ATOM	4022	O	LEU	X	269	46.063	66.354	43.856	0.00	0.00
ATOM	4023	N	ARG	X	270	44.775	68.029	44.665	0.00	0.00
ATOM	4024	H	ARG	X	270	44.564	68.548	45.505	0.00	0.00
ATOM	4025	CA	ARG	X	270	44.027	68.136	43.463	0.00	0.00
ATOM	4026	HA	ARG	X	270	44.206	67.275	42.818	0.00	0.00
ATOM	4027	CB	ARG	X	270	42.525	68.282	43.771	0.00	0.00
ATOM	4028	HB2	ARG	X	270	42.443	68.908	44.660	0.00	0.00
ATOM	4029	HB3	ARG	X	270	42.035	68.519	42.826	0.00	0.00
ATOM	4030	CG	ARG	X	270	41.996	66.820	44.124	0.00	0.00
ATOM	4031	HG2	ARG	X	270	42.469	66.211	43.354	0.00	0.00
ATOM	4032	HG3	ARG	X	270	42.329	66.465	45.099	0.00	0.00
ATOM	4033	CD	ARG	X	270	40.495	66.782	44.091	0.00	0.00
ATOM	4034	HD2	ARG	X	270	40.110	67.648	43.552	0.00	0.00
ATOM	4035	HD3	ARG	X	270	40.098	65.836	43.723	0.00	0.00
ATOM	4036	NE	ARG	X	270	40.063	67.014	45.551	0.00	0.00
ATOM	4037	HE	ARG	X	270	40.218	67.874	46.057	0.00	0.00
ATOM	4038	CZ	ARG	X	270	39.420	66.050	46.260	0.00	0.00
ATOM	4039	NH1	ARG	X	270	39.139	64.784	45.896	0.00	0.00
ATOM	4040	HH11	ARG	X	270	39.368	64.400	44.991	0.00	0.00
ATOM	4041	HH12	ARG	X	270	38.629	64.278	46.606	0.00	0.00
ATOM	4042	NH2	ARG	X	270	39.212	66.367	47.524	0.00	0.00
ATOM	4043	HH21	ARG	X	270	39.522	67.268	47.858	0.00	0.00
ATOM	4044	HH22	ARG	X	270	38.760	65.742	48.177	0.00	0.00
ATOM	4045	C	ARG	X	270	44.562	69.265	42.600	0.00	0.00
ATOM	4046	O	ARG	X	270	44.220	69.230	41.369	0.00	0.00
ATOM	4047	N	THR	X	271	45.173	70.311	43.107	0.00	0.00
ATOM	4048	H	THR	X	271	45.088	70.452	44.103	0.00	0.00
ATOM	4049	CA	THR	X	271	45.829	71.323	42.265	0.00	0.00
ATOM	4050	HA	THR	X	271	45.214	71.719	41.457	0.00	0.00
ATOM	4051	CB	THR	X	271	46.113	72.557	43.142	0.00	0.00
ATOM	4052	HB	THR	X	271	46.831	72.230	43.894	0.00	0.00
ATOM	4053	CG2	THR	X	271	46.562	73.798	42.502	0.00	0.00
ATOM	4054	HG21	THR	X	271	46.682	74.635	43.190	0.00	0.00
ATOM	4055	HG22	THR	X	271	45.839	74.035	41.721	0.00	0.00
ATOM	4056	HG23	THR	X	271	47.553	73.629	42.080	0.00	0.00
ATOM	4057	OG1	THR	X	271	44.896	72.970	43.653	0.00	0.00
ATOM	4058	HG1	THR	X	271	45.113	73.758	44.157	0.00	0.00
ATOM	4059	C	THR	X	271	47.122	70.819	41.619	0.00	0.00
ATOM	4060	O	THR	X	271	47.185	70.808	40.384	0.00	0.00
ATOM	4061	N	ARG	X	272	48.113	70.355	42.371	0.00	0.00
ATOM	4062	H	ARG	X	272	48.134	70.515	43.368	0.00	0.00
ATOM	4063	CA	ARG	X	272	49.374	69.808	41.826	0.00	0.00
ATOM	4064	HA	ARG	X	272	49.806	70.672	41.321	0.00	0.00
ATOM	4065	CB	ARG	X	272	50.329	69.440	42.963	0.00	0.00
ATOM	4066	HB2	ARG	X	272	49.946	68.641	43.599	0.00	0.00
ATOM	4067	HB3	ARG	X	272	51.242	69.034	42.529	0.00	0.00
ATOM	4068	CG	ARG	X	272	50.661	70.655	43.843	0.00	0.00
ATOM	4069	HG2	ARG	X	272	49.754	71.020	44.324	0.00	0.00
ATOM	4070	HG3	ARG	X	272	51.105	70.134	44.692	0.00	0.00
ATOM	4071	CD	ARG	X	272	51.625	71.757	43.340	0.00	0.00
ATOM	4072	HD2	ARG	X	272	52.616	71.360	43.121	0.00	0.00
ATOM	4073	HD3	ARG	X	272	51.266	72.225	42.423	0.00	0.00
ATOM	4074	NE	ARG	X	272	51.648	72.825	44.398	0.00	0.00
ATOM	4075	HE	ARG	X	272	50.971	73.552	44.216	0.00	0.00
ATOM	4076	CZ	ARG	X	272	52.398	73.008	45.489	0.00	0.00
ATOM	4077	NH1	ARG	X	272	53.394	72.204	45.821	0.00	0.00
ATOM	4078	HH11	ARG	X	272	53.549	71.355	45.296	0.00	0.00
ATOM	4079	HH12	ARG	X	272	54.037	72.434	46.566	0.00	0.00
ATOM	4080	NH2	ARG	X	272	52.207	73.987	46.236	0.00	0.00
ATOM	4081	HH21	ARG	X	272	51.659	74.703	45.781	0.00	0.00
ATOM	4082	HH22	ARG	X	272	52.849	74.285	46.956	0.00	0.00
ATOM	4083	C	ARG	X	272	49.164	68.657	40.744	0.00	0.00
ATOM	4084	O	ARG	X	272	48.293	67.773	41.073	0.00	0.00
ATOM	4085	N	PRO	X	273	49.728	68.591	39.586	0.00	0.00

ATOM	4086	CD	PRO	X	273	50.604	69.684	39.131	0.00	0.00
ATOM	4087	HD2	PRO	X	273	51.582	69.372	39.500	0.00	0.00
ATOM	4088	HD3	PRO	X	273	50.400	70.706	39.451	0.00	0.00
ATOM	4089	CG	PRO	X	273	50.562	69.525	37.599	0.00	0.00
ATOM	4090	HG2	PRO	X	273	51.486	69.884	37.147	0.00	0.00
ATOM	4091	HG3	PRO	X	273	49.691	70.052	37.209	0.00	0.00
ATOM	4092	CB	PRO	X	273	50.430	68.014	37.360	0.00	0.00
ATOM	4093	HB2	PRO	X	273	51.398	67.516	37.413	0.00	0.00
ATOM	4094	HB3	PRO	X	273	50.027	67.817	36.367	0.00	0.00
ATOM	4095	CA	PRO	X	273	49.501	67.628	38.548	0.00	0.00
ATOM	4096	HA	PRO	X	273	48.458	67.689	38.235	0.00	0.00
ATOM	4097	C	PRO	X	273	49.777	66.187	38.986	0.00	0.00
ATOM	4098	O	PRO	X	273	50.876	65.865	39.500	0.00	0.00
ATOM	4099	N	ALA	X	274	48.844	65.261	38.601	0.00	0.00
ATOM	4100	H	ALA	X	274	47.988	65.633	38.214	0.00	0.00
ATOM	4101	CA	ALA	X	274	49.016	63.823	38.914	0.00	0.00
ATOM	4102	HA	ALA	X	274	48.953	63.682	39.993	0.00	0.00
ATOM	4103	CB	ALA	X	274	47.765	63.146	38.311	0.00	0.00
ATOM	4104	HB1	ALA	X	274	47.915	62.085	38.511	0.00	0.00
ATOM	4105	HB2	ALA	X	274	47.690	63.404	37.255	0.00	0.00
ATOM	4106	HB3	ALA	X	274	46.807	63.372	38.780	0.00	0.00
ATOM	4107	C	ALA	X	274	50.347	63.138	38.372	0.00	0.00
ATOM	4108	O	ALA	X	274	50.940	62.399	39.137	0.00	0.00
ATOM	4109	N	GLN	X	275	50.876	63.563	37.214	0.00	0.00
ATOM	4110	H	GLN	X	275	50.405	64.271	36.669	0.00	0.00
ATOM	4111	CA	GLN	X	275	52.246	63.215	36.741	0.00	0.00
ATOM	4112	HA	GLN	X	275	52.302	62.136	36.595	0.00	0.00
ATOM	4113	CB	GLN	X	275	52.461	64.051	35.406	0.00	0.00
ATOM	4114	HB2	GLN	X	275	51.568	63.877	34.806	0.00	0.00
ATOM	4115	HB3	GLN	X	275	52.617	65.114	35.588	0.00	0.00
ATOM	4116	CG	GLN	X	275	53.571	63.510	34.573	0.00	0.00
ATOM	4117	HG2	GLN	X	275	54.396	63.225	35.226	0.00	0.00
ATOM	4118	HG3	GLN	X	275	53.261	62.578	34.100	0.00	0.00
ATOM	4119	CD	GLN	X	275	53.967	64.533	33.524	0.00	0.00
ATOM	4120	OE1	GLN	X	275	54.044	65.752	33.744	0.00	0.00
ATOM	4121	NE2	GLN	X	275	54.040	64.140	32.269	0.00	0.00
ATOM	4122	HE21	GLN	X	275	54.246	64.818	31.548	0.00	0.00
ATOM	4123	HE22	GLN	X	275	53.865	63.176	32.024	0.00	0.00
ATOM	4124	C	GLN	X	275	53.356	63.522	37.793	0.00	0.00
ATOM	4125	O	GLN	X	275	54.277	62.719	37.957	0.00	0.00
ATOM	4126	N	VAL	X	276	53.251	64.622	38.613	0.00	0.00
ATOM	4127	H	VAL	X	276	52.502	65.291	38.509	0.00	0.00
ATOM	4128	CA	VAL	X	276	54.149	64.920	39.739	0.00	0.00
ATOM	4129	HA	VAL	X	276	55.156	64.719	39.373	0.00	0.00
ATOM	4130	CB	VAL	X	276	53.949	66.350	40.292	0.00	0.00
ATOM	4131	HB	VAL	X	276	52.924	66.555	40.602	0.00	0.00
ATOM	4132	CG1	VAL	X	276	54.963	66.587	41.450	0.00	0.00
ATOM	4133	HG11	VAL	X	276	55.869	66.070	41.136	0.00	0.00
ATOM	4134	HG12	VAL	X	276	55.134	67.643	41.662	0.00	0.00
ATOM	4135	HG13	VAL	X	276	54.534	66.209	42.377	0.00	0.00
ATOM	4136	CG2	VAL	X	276	54.254	67.346	39.170	0.00	0.00
ATOM	4137	HG21	VAL	X	276	54.040	68.359	39.511	0.00	0.00
ATOM	4138	HG22	VAL	X	276	53.718	67.242	38.227	0.00	0.00
ATOM	4139	HG23	VAL	X	276	55.266	67.363	38.766	0.00	0.00
ATOM	4140	C	VAL	X	276	53.882	63.919	40.900	0.00	0.00
ATOM	4141	O	VAL	X	276	54.788	63.281	41.402	0.00	0.00
ATOM	4142	N	LEU	X	277	52.572	63.667	41.196	0.00	0.00
ATOM	4143	H	LEU	X	277	51.890	64.030	40.547	0.00	0.00
ATOM	4144	CA	LEU	X	277	52.133	62.833	42.303	0.00	0.00
ATOM	4145	HA	LEU	X	277	52.650	63.184	43.196	0.00	0.00
ATOM	4146	CB	LEU	X	277	50.598	62.912	42.491	0.00	0.00
ATOM	4147	HB2	LEU	X	277	50.156	62.403	41.634	0.00	0.00
ATOM	4148	HB3	LEU	X	277	50.312	62.323	43.362	0.00	0.00
ATOM	4149	CG	LEU	X	277	49.919	64.352	42.528	0.00	0.00
ATOM	4150	HG	LEU	X	277	50.203	64.982	41.686	0.00	0.00
ATOM	4151	CD1	LEU	X	277	48.394	64.128	42.689	0.00	0.00
ATOM	4152	HD11	LEU	X	277	47.899	65.098	42.673	0.00	0.00

ATOM	4153	HD12	LEU	X	277	48.250	63.531	43.589	0.00	0.00
ATOM	4154	HD13	LEU	X	277	47.912	63.610	41.859	0.00	0.00
ATOM	4155	CD2	LEU	X	277	50.486	65.031	43.812	0.00	0.00
ATOM	4156	HD21	LEU	X	277	50.341	64.336	44.638	0.00	0.00
ATOM	4157	HD22	LEU	X	277	51.549	65.239	43.682	0.00	0.00
ATOM	4158	HD23	LEU	X	277	49.886	65.921	44.002	0.00	0.00
ATOM	4159	C	LEU	X	277	52.541	61.359	42.083	0.00	0.00
ATOM	4160	O	LEU	X	277	52.959	60.703	43.046	0.00	0.00
ATOM	4161	N	VAL	X	278	52.554	60.789	40.920	0.00	0.00
ATOM	4162	H	VAL	X	278	52.251	61.339	40.128	0.00	0.00
ATOM	4163	CA	VAL	X	278	52.979	59.453	40.574	0.00	0.00
ATOM	4164	HA	VAL	X	278	52.719	58.946	41.503	0.00	0.00
ATOM	4165	CB	VAL	X	278	52.135	58.743	39.400	0.00	0.00
ATOM	4166	HB	VAL	X	278	52.485	57.721	39.252	0.00	0.00
ATOM	4167	CG1	VAL	X	278	50.662	58.553	39.804	0.00	0.00
ATOM	4168	HG11	VAL	X	278	50.081	57.988	39.074	0.00	0.00
ATOM	4169	HG12	VAL	X	278	50.711	58.097	40.793	0.00	0.00
ATOM	4170	HG13	VAL	X	278	50.149	59.500	39.967	0.00	0.00
ATOM	4171	CG2	VAL	X	278	52.371	59.475	38.102	0.00	0.00
ATOM	4172	HG21	VAL	X	278	51.749	59.074	37.302	0.00	0.00
ATOM	4173	HG22	VAL	X	278	53.448	59.471	37.931	0.00	0.00
ATOM	4174	HG23	VAL	X	278	52.102	60.529	38.169	0.00	0.00
ATOM	4175	C	VAL	X	278	54.533	59.271	40.402	0.00	0.00
ATOM	4176	O	VAL	X	278	55.059	58.184	40.595	0.00	0.00
ATOM	4177	N	ASN	X	279	55.207	60.348	39.962	0.00	0.00
ATOM	4178	H	ASN	X	279	54.590	61.145	39.896	0.00	0.00
ATOM	4179	CA	ASN	X	279	56.685	60.493	40.009	0.00	0.00
ATOM	4180	HA	ASN	X	279	57.161	59.676	39.468	0.00	0.00
ATOM	4181	CB	ASN	X	279	57.170	61.832	39.314	0.00	0.00
ATOM	4182	HB2	ASN	X	279	56.557	62.014	38.432	0.00	0.00
ATOM	4183	HB3	ASN	X	279	57.078	62.663	40.013	0.00	0.00
ATOM	4184	CG	ASN	X	279	58.661	61.738	38.858	0.00	0.00
ATOM	4185	OD1	ASN	X	279	59.468	60.957	39.347	0.00	0.00
ATOM	4186	ND2	ASN	X	279	58.997	62.693	38.005	0.00	0.00
ATOM	4187	HD21	ASN	X	279	59.920	62.680	37.597	0.00	0.00
ATOM	4188	HD22	ASN	X	279	58.231	63.302	37.752	0.00	0.00
ATOM	4189	C	ASN	X	279	57.190	60.420	41.475	0.00	0.00
ATOM	4190	O	ASN	X	279	58.210	59.838	41.832	0.00	0.00
ATOM	4191	N	HIE	X	280	56.291	60.878	42.397	0.00	0.00
ATOM	4192	H	HIE	X	280	55.420	61.272	42.069	0.00	0.00
ATOM	4193	CA	HIE	X	280	56.575	61.035	43.819	0.00	0.00
ATOM	4194	HA	HIE	X	280	57.648	60.859	43.903	0.00	0.00
ATOM	4195	CB	HIE	X	280	56.193	62.454	44.149	0.00	0.00
ATOM	4196	HB2	HIE	X	280	55.150	62.571	43.855	0.00	0.00
ATOM	4197	HB3	HIE	X	280	56.153	62.536	45.235	0.00	0.00
ATOM	4198	CG	HIE	X	280	57.075	63.588	43.624	0.00	0.00
ATOM	4199	ND1	HIE	X	280	57.839	63.633	42.454	0.00	0.00
ATOM	4200	CE1	HIE	X	280	58.570	64.724	42.467	0.00	0.00
ATOM	4201	HE1	HIE	X	280	59.351	64.911	41.745	0.00	0.00
ATOM	4202	NE2	HIE	X	280	58.356	65.331	43.643	0.00	0.00
ATOM	4203	HE2	HIE	X	280	58.918	66.117	43.938	0.00	0.00
ATOM	4204	CD2	HIE	X	280	57.347	64.721	44.323	0.00	0.00
ATOM	4205	HD2	HIE	X	280	56.964	64.989	45.297	0.00	0.00
ATOM	4206	C	HIE	X	280	55.894	59.934	44.718	0.00	0.00
ATOM	4207	O	HIE	X	280	56.296	59.833	45.880	0.00	0.00
ATOM	4208	N	GLU	X	281	55.034	59.053	44.198	0.00	0.00
ATOM	4209	H	GLU	X	281	54.603	59.233	43.302	0.00	0.00
ATOM	4210	CA	GLU	X	281	54.463	58.056	45.037	0.00	0.00
ATOM	4211	HA	GLU	X	281	54.033	58.545	45.911	0.00	0.00
ATOM	4212	CB	GLU	X	281	53.427	57.428	44.122	0.00	0.00
ATOM	4213	HB2	GLU	X	281	53.094	58.192	43.419	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.012	56.706	43.553	0.00	0.00
ATOM	4215	CG	GLU	X	281	52.272	56.675	44.885	0.00	0.00
ATOM	4216	HG2	GLU	X	281	52.708	55.899	45.514	0.00	0.00
ATOM	4217	HG3	GLU	X	281	51.743	57.431	45.466	0.00	0.00
ATOM	4218	CD	GLU	X	281	51.212	56.047	43.919	0.00	0.00
ATOM	4219	OE1	GLU	X	281	50.337	56.797	43.502	0.00	0.00

ATOM	4220	OE2	GLU	X	281	51.456	54.906	43.448	0.00	0.00
ATOM	4221	C	GLU	X	281	55.511	56.982	45.528	0.00	0.00
ATOM	4222	O	GLU	X	281	55.485	56.622	46.683	0.00	0.00
ATOM	4223	N	TRP	X	282	56.408	56.571	44.619	0.00	0.00
ATOM	4224	H	TRP	X	282	56.291	56.908	43.674	0.00	0.00
ATOM	4225	CA	TRP	X	282	57.594	55.733	44.884	0.00	0.00
ATOM	4226	HA	TRP	X	282	57.295	54.687	44.948	0.00	0.00
ATOM	4227	CB	TRP	X	282	58.533	55.842	43.742	0.00	0.00
ATOM	4228	HB2	TRP	X	282	57.951	55.654	42.840	0.00	0.00
ATOM	4229	HB3	TRP	X	282	58.892	56.832	43.463	0.00	0.00
ATOM	4230	CG	TRP	X	282	59.704	54.915	43.855	0.00	0.00
ATOM	4231	CD1	TRP	X	282	59.760	53.610	43.617	0.00	0.00
ATOM	4232	HD1	TRP	X	282	58.955	53.044	43.173	0.00	0.00
ATOM	4233	NE1	TRP	X	282	60.992	53.135	43.808	0.00	0.00
ATOM	4234	HE1	TRP	X	282	61.229	52.154	43.768	0.00	0.00
ATOM	4235	CE2	TRP	X	282	61.876	54.091	44.273	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	63.256	54.116	44.602	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	63.780	53.177	44.499	0.00	0.00
ATOM	4238	CH2	TRP	X	282	63.835	55.220	45.114	0.00	0.00
ATOM	4239	HH2	TRP	X	282	64.853	55.079	45.447	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	63.082	56.412	45.165	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	63.458	57.382	45.456	0.00	0.00
ATOM	4242	CE3	TRP	X	282	61.751	56.435	44.622	0.00	0.00
ATOM	4243	HE3	TRP	X	282	61.244	57.387	44.579	0.00	0.00
ATOM	4244	CD2	TRP	X	282	61.069	55.259	44.244	0.00	0.00
ATOM	4245	C	TRP	X	282	58.370	56.030	46.113	0.00	0.00
ATOM	4246	O	TRP	X	282	58.906	55.189	46.815	0.00	0.00
ATOM	4247	N	HIE	X	283	58.250	57.225	46.647	0.00	0.00
ATOM	4248	H	HIE	X	283	57.733	57.949	46.169	0.00	0.00
ATOM	4249	CA	HIE	X	283	58.762	57.568	48.000	0.00	0.00
ATOM	4250	HA	HIE	X	283	59.837	57.390	47.977	0.00	0.00
ATOM	4251	CB	HIE	X	283	58.601	59.101	48.037	0.00	0.00
ATOM	4252	HB2	HIE	X	283	59.286	59.490	47.283	0.00	0.00
ATOM	4253	HB3	HIE	X	283	57.565	59.421	47.926	0.00	0.00
ATOM	4254	CG	HIE	X	283	59.114	59.684	49.280	0.00	0.00
ATOM	4255	ND1	HIE	X	283	60.510	59.835	49.585	0.00	0.00
ATOM	4256	CE1	HIE	X	283	60.535	60.517	50.750	0.00	0.00
ATOM	4257	HE1	HIE	X	283	61.352	60.856	51.370	0.00	0.00
ATOM	4258	NE2	HIE	X	283	59.332	60.789	51.126	0.00	0.00
ATOM	4259	HE2	HIE	X	283	59.220	61.497	51.837	0.00	0.00
ATOM	4260	CD2	HIE	X	283	58.417	60.304	50.244	0.00	0.00
ATOM	4261	HD2	HIE	X	283	57.347	60.385	50.359	0.00	0.00
ATOM	4262	C	HIE	X	283	58.094	56.890	49.136	0.00	0.00
ATOM	4263	O	HIE	X	283	58.741	56.791	50.209	0.00	0.00
ATOM	4264	N	VAL	X	284	56.994	56.189	48.987	0.00	0.00
ATOM	4265	H	VAL	X	284	56.445	56.502	48.199	0.00	0.00
ATOM	4266	CA	VAL	X	284	56.328	55.382	50.031	0.00	0.00
ATOM	4267	HA	VAL	X	284	57.088	55.073	50.748	0.00	0.00
ATOM	4268	CB	VAL	X	284	55.174	56.095	50.841	0.00	0.00
ATOM	4269	HB	VAL	X	284	54.762	55.401	51.573	0.00	0.00
ATOM	4270	CG1	VAL	X	284	55.751	57.415	51.526	0.00	0.00
ATOM	4271	HG11	VAL	X	284	56.666	57.069	52.007	0.00	0.00
ATOM	4272	HG12	VAL	X	284	56.103	58.205	50.863	0.00	0.00
ATOM	4273	HG13	VAL	X	284	55.072	57.739	52.314	0.00	0.00
ATOM	4274	CG2	VAL	X	284	53.992	56.589	49.895	0.00	0.00
ATOM	4275	HG21	VAL	X	284	53.514	55.660	49.588	0.00	0.00
ATOM	4276	HG22	VAL	X	284	54.415	57.151	49.063	0.00	0.00
ATOM	4277	HG23	VAL	X	284	53.316	57.194	50.499	0.00	0.00
ATOM	4278	C	VAL	X	284	55.912	53.968	49.531	0.00	0.00
ATOM	4279	O	VAL	X	284	55.195	53.217	50.207	0.00	0.00
ATOM	4280	N	LEU	X	285	56.460	53.551	48.370	0.00	0.00
ATOM	4281	H	LEU	X	285	57.121	54.200	47.968	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.361	52.218	47.834	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.361	51.837	48.043	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.714	52.235	46.302	0.00	0.00
ATOM	4285	HB2	LEU	X	285	56.066	53.010	45.895	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.709	52.659	46.166	0.00	0.00

ATOM	4287	CG	LEU	X	285	56.521	50.893	45.621	0.00	0.00
ATOM	4288	HG	LEU	X	285	57.164	50.187	46.148	0.00	0.00
ATOM	4289	CD1	LEU	X	285	55.114	50.414	45.570	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.507	51.265	45.263	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.746	50.001	46.510	0.00	0.00
ATOM	4292	HD13	LEU	X	285	55.000	49.583	44.874	0.00	0.00
ATOM	4293	CD2	LEU	X	285	57.041	51.054	44.190	0.00	0.00
ATOM	4294	HD21	LEU	X	285	56.919	50.127	43.630	0.00	0.00
ATOM	4295	HD22	LEU	X	285	56.584	51.942	43.753	0.00	0.00
ATOM	4296	HD23	LEU	X	285	58.107	51.242	44.315	0.00	0.00
ATOM	4297	C	LEU	X	285	57.388	51.392	48.643	0.00	0.00
ATOM	4298	O	LEU	X	285	58.573	51.794	48.591	0.00	0.00
ATOM	4299	N	PRO	X	286	57.024	50.273	49.361	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.676	49.751	49.393	0.00	0.00
ATOM	4301	HD2	PRO	X	286	55.348	49.231	48.493	0.00	0.00
ATOM	4302	HD3	PRO	X	286	55.079	50.653	49.531	0.00	0.00
ATOM	4303	CG	PRO	X	286	55.605	48.868	50.629	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.958	47.996	50.533	0.00	0.00
ATOM	4305	HG3	PRO	X	286	55.156	49.505	51.391	0.00	0.00
ATOM	4306	CB	PRO	X	286	57.005	48.464	50.815	0.00	0.00
ATOM	4307	HB2	PRO	X	286	57.190	47.627	50.142	0.00	0.00
ATOM	4308	HB3	PRO	X	286	57.193	48.211	51.858	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.839	49.679	50.359	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.935	50.455	51.118	0.00	0.00
ATOM	4311	C	PRO	X	286	59.248	49.230	49.840	0.00	0.00
ATOM	4312	O	PRO	X	286	59.374	48.661	48.781	0.00	0.00
ATOM	4313	N	GLN	X	287	60.250	49.362	50.673	0.00	0.00
ATOM	4314	H	GLN	X	287	60.039	49.986	51.439	0.00	0.00
ATOM	4315	CA	GLN	X	287	61.576	48.682	50.643	0.00	0.00
ATOM	4316	HA	GLN	X	287	61.865	48.132	49.748	0.00	0.00
ATOM	4317	CB	GLN	X	287	62.648	49.747	50.811	0.00	0.00
ATOM	4318	HB2	GLN	X	287	62.684	50.079	51.848	0.00	0.00
ATOM	4319	HB3	GLN	X	287	63.607	49.294	50.559	0.00	0.00
ATOM	4320	CG	GLN	X	287	62.418	50.952	49.845	0.00	0.00
ATOM	4321	HG2	GLN	X	287	62.354	50.661	48.797	0.00	0.00
ATOM	4322	HG3	GLN	X	287	61.503	51.496	50.082	0.00	0.00
ATOM	4323	CD	GLN	X	287	63.488	52.030	50.013	0.00	0.00
ATOM	4324	OE1	GLN	X	287	64.560	51.773	50.601	0.00	0.00
ATOM	4325	NE2	GLN	X	287	63.386	53.138	49.354	0.00	0.00
ATOM	4326	HE21	GLN	X	287	64.189	53.749	49.310	0.00	0.00
ATOM	4327	HE22	GLN	X	287	62.670	53.190	48.644	0.00	0.00
ATOM	4328	C	GLN	X	287	61.695	47.638	51.782	0.00	0.00
ATOM	4329	O	GLN	X	287	60.858	47.560	52.645	0.00	0.00
ATOM	4330	N	GLU	X	288	62.731	46.766	51.803	0.00	0.00
ATOM	4331	H	GLU	X	288	63.390	46.818	51.040	0.00	0.00
ATOM	4332	CA	GLU	X	288	62.945	45.795	52.879	0.00	0.00
ATOM	4333	HA	GLU	X	288	63.730	45.114	52.551	0.00	0.00
ATOM	4334	CB	GLU	X	288	63.295	46.481	54.219	0.00	0.00
ATOM	4335	HB2	GLU	X	288	62.380	46.834	54.696	0.00	0.00
ATOM	4336	HB3	GLU	X	288	63.790	45.652	54.723	0.00	0.00
ATOM	4337	CG	GLU	X	288	64.394	47.588	54.185	0.00	0.00
ATOM	4338	HG2	GLU	X	288	65.260	47.188	53.659	0.00	0.00
ATOM	4339	HG3	GLU	X	288	64.061	48.436	53.587	0.00	0.00
ATOM	4340	CD	GLU	X	288	64.715	48.076	55.567	0.00	0.00
ATOM	4341	OE1	GLU	X	288	65.796	47.887	56.208	0.00	0.00
ATOM	4342	OE2	GLU	X	288	63.830	48.813	56.104	0.00	0.00
ATOM	4343	C	GLU	X	288	61.672	44.902	53.007	0.00	0.00
ATOM	4344	O	GLU	X	288	61.287	44.587	54.174	0.00	0.00
ATOM	4345	N	SER	X	289	61.080	44.612	51.876	0.00	0.00
ATOM	4346	H	SER	X	289	61.450	45.009	51.024	0.00	0.00
ATOM	4347	CA	SER	X	289	59.697	44.156	51.856	0.00	0.00
ATOM	4348	HA	SER	X	289	59.577	43.352	52.583	0.00	0.00
ATOM	4349	CB	SER	X	289	58.675	45.280	52.284	0.00	0.00
ATOM	4350	HB2	SER	X	289	58.929	46.171	51.711	0.00	0.00
ATOM	4351	HB3	SER	X	289	57.680	44.840	52.214	0.00	0.00
ATOM	4352	OG	SER	X	289	58.766	45.498	53.640	0.00	0.00
ATOM	4353	HG	SER	X	289	59.699	45.691	53.754	0.00	0.00

ATOM	4354	C	SER	X	289	59.264	43.689	50.417	0.00	0.00
ATOM	4355	O	SER	X	289	59.007	44.527	49.568	0.00	0.00
ATOM	4356	N	VAL	X	290	59.052	42.416	50.229	0.00	0.00
ATOM	4357	H	VAL	X	290	59.114	41.835	51.053	0.00	0.00
ATOM	4358	CA	VAL	X	290	58.609	41.738	48.958	0.00	0.00
ATOM	4359	HA	VAL	X	290	58.716	42.482	48.168	0.00	0.00
ATOM	4360	CB	VAL	X	290	59.552	40.561	48.513	0.00	0.00
ATOM	4361	HB	VAL	X	290	59.152	40.067	47.627	0.00	0.00
ATOM	4362	CG1	VAL	X	290	60.920	41.185	48.115	0.00	0.00
ATOM	4363	HG11	VAL	X	290	61.436	41.684	48.935	0.00	0.00
ATOM	4364	HG12	VAL	X	290	61.599	40.441	47.698	0.00	0.00
ATOM	4365	HG13	VAL	X	290	60.725	41.987	47.403	0.00	0.00
ATOM	4366	CG2	VAL	X	290	59.794	39.392	49.408	0.00	0.00
ATOM	4367	HG21	VAL	X	290	60.054	39.677	50.428	0.00	0.00
ATOM	4368	HG22	VAL	X	290	60.613	38.774	49.039	0.00	0.00
ATOM	4369	HG23	VAL	X	290	58.882	38.813	49.547	0.00	0.00
ATOM	4370	C	VAL	X	290	57.081	41.376	49.125	0.00	0.00
ATOM	4371	O	VAL	X	290	56.660	40.915	50.174	0.00	0.00
ATOM	4372	N	PHE	X	291	56.287	41.496	48.045	0.00	0.00
ATOM	4373	H	PHE	X	291	56.673	41.782	47.156	0.00	0.00
ATOM	4374	CA	PHE	X	291	54.856	41.124	47.933	0.00	0.00
ATOM	4375	HA	PHE	X	291	54.479	41.290	46.923	0.00	0.00
ATOM	4376	CB	PHE	X	291	54.735	39.705	48.335	0.00	0.00
ATOM	4377	HB2	PHE	X	291	55.647	39.188	48.036	0.00	0.00
ATOM	4378	HB3	PHE	X	291	54.533	39.732	49.405	0.00	0.00
ATOM	4379	CG	PHE	X	291	53.532	38.915	47.783	0.00	0.00
ATOM	4380	CD1	PHE	X	291	52.290	39.553	47.415	0.00	0.00
ATOM	4381	HD1	PHE	X	291	52.096	40.569	47.728	0.00	0.00
ATOM	4382	CE1	PHE	X	291	51.346	38.740	46.756	0.00	0.00
ATOM	4383	HE1	PHE	X	291	50.341	39.075	46.545	0.00	0.00
ATOM	4384	CZ	PHE	X	291	51.554	37.330	46.498	0.00	0.00
ATOM	4385	HZ	PHE	X	291	50.798	36.703	46.049	0.00	0.00
ATOM	4386	CE2	PHE	X	291	52.768	36.747	46.867	0.00	0.00
ATOM	4387	HE2	PHE	X	291	53.067	35.732	46.650	0.00	0.00
ATOM	4388	CD2	PHE	X	291	53.745	37.516	47.522	0.00	0.00
ATOM	4389	HD2	PHE	X	291	54.635	36.992	47.840	0.00	0.00
ATOM	4390	C	PHE	X	291	54.109	42.081	48.829	0.00	0.00
ATOM	4391	O	PHE	X	291	53.255	41.720	49.619	0.00	0.00
ATOM	4392	N	ARG	X	292	54.453	43.413	48.823	0.00	0.00
ATOM	4393	H	ARG	X	292	55.066	43.716	48.079	0.00	0.00
ATOM	4394	CA	ARG	X	292	53.958	44.470	49.755	0.00	0.00
ATOM	4395	HA	ARG	X	292	52.960	44.088	49.972	0.00	0.00
ATOM	4396	CB	ARG	X	292	54.891	44.614	50.968	0.00	0.00
ATOM	4397	HB2	ARG	X	292	55.103	43.560	51.147	0.00	0.00
ATOM	4398	HB3	ARG	X	292	55.841	45.104	50.755	0.00	0.00
ATOM	4399	CG	ARG	X	292	54.184	45.168	52.219	0.00	0.00
ATOM	4400	HG2	ARG	X	292	55.011	45.384	52.896	0.00	0.00
ATOM	4401	HG3	ARG	X	292	53.876	46.194	52.016	0.00	0.00
ATOM	4402	CD	ARG	X	292	53.248	44.240	53.025	0.00	0.00
ATOM	4403	HD2	ARG	X	292	52.631	43.718	52.293	0.00	0.00
ATOM	4404	HD3	ARG	X	292	53.703	43.470	53.649	0.00	0.00
ATOM	4405	NE	ARG	X	292	52.319	44.978	53.892	0.00	0.00
ATOM	4406	HE	ARG	X	292	52.411	45.979	53.989	0.00	0.00
ATOM	4407	CZ	ARG	X	292	51.463	44.462	54.780	0.00	0.00
ATOM	4408	NH1	ARG	X	292	51.149	43.197	54.698	0.00	0.00
ATOM	4409	HH11	ARG	X	292	51.482	42.511	54.035	0.00	0.00
ATOM	4410	HH12	ARG	X	292	50.487	42.945	55.418	0.00	0.00
ATOM	4411	NH2	ARG	X	292	50.874	45.200	55.723	0.00	0.00
ATOM	4412	HH21	ARG	X	292	50.969	46.188	55.908	0.00	0.00
ATOM	4413	HH22	ARG	X	292	50.356	44.741	56.459	0.00	0.00
ATOM	4414	C	ARG	X	292	53.865	45.730	48.937	0.00	0.00
ATOM	4415	O	ARG	X	292	54.795	46.096	48.131	0.00	0.00
ATOM	4416	N	PHE	X	293	52.811	46.472	49.081	0.00	0.00
ATOM	4417	H	PHE	X	293	52.082	46.211	49.730	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.584	47.693	48.265	0.00	0.00
ATOM	4419	HA	PHE	X	293	53.508	48.026	47.793	0.00	0.00
ATOM	4420	CB	PHE	X	293	51.651	47.384	47.094	0.00	0.00

ATOM	4421	HB2	PHE	X	293	50.669	47.386	47.567	0.00	0.00
ATOM	4422	HB3	PHE	X	293	51.791	48.237	46.430	0.00	0.00
ATOM	4423	CG	PHE	X	293	51.912	46.041	46.354	0.00	0.00
ATOM	4424	CD1	PHE	X	293	53.129	45.869	45.649	0.00	0.00
ATOM	4425	HD1	PHE	X	293	53.829	46.659	45.421	0.00	0.00
ATOM	4426	CE1	PHE	X	293	53.426	44.563	45.342	0.00	0.00
ATOM	4427	HE1	PHE	X	293	54.377	44.541	44.830	0.00	0.00
ATOM	4428	CZ	PHE	X	293	52.638	43.430	45.701	0.00	0.00
ATOM	4429	HZ	PHE	X	293	52.904	42.384	45.654	0.00	0.00
ATOM	4430	CE2	PHE	X	293	51.432	43.688	46.329	0.00	0.00
ATOM	4431	HE2	PHE	X	293	50.759	42.855	46.470	0.00	0.00
ATOM	4432	CD2	PHE	X	293	51.005	45.006	46.623	0.00	0.00
ATOM	4433	HD2	PHE	X	293	50.112	45.041	47.229	0.00	0.00
ATOM	4434	C	PHE	X	293	52.163	48.919	49.045	0.00	0.00
ATOM	4435	O	PHE	X	293	52.075	48.952	50.283	0.00	0.00
ATOM	4436	N	SER	X	294	51.786	49.932	48.314	0.00	0.00
ATOM	4437	H	SER	X	294	51.678	49.859	47.313	0.00	0.00
ATOM	4438	CA	SER	X	294	51.540	51.320	48.766	0.00	0.00
ATOM	4439	HA	SER	X	294	52.062	51.480	49.709	0.00	0.00
ATOM	4440	CB	SER	X	294	52.211	52.249	47.729	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.008	53.268	48.059	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.283	52.080	47.830	0.00	0.00
ATOM	4443	OG	SER	X	294	51.937	52.111	46.360	0.00	0.00
ATOM	4444	HG	SER	X	294	52.548	52.663	45.866	0.00	0.00
ATOM	4445	C	SER	X	294	50.094	51.689	48.938	0.00	0.00
ATOM	4446	O	SER	X	294	49.583	51.647	50.073	0.00	0.00
ATOM	4447	N	PHE	X	295	49.444	52.171	47.867	0.00	0.00
ATOM	4448	H	PHE	X	295	49.945	52.181	46.990	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.124	52.837	47.992	0.00	0.00
ATOM	4450	HA	PHE	X	295	47.997	53.171	49.022	0.00	0.00
ATOM	4451	CB	PHE	X	295	48.096	54.158	47.185	0.00	0.00
ATOM	4452	HB2	PHE	X	295	48.628	53.983	46.250	0.00	0.00
ATOM	4453	HB3	PHE	X	295	47.076	54.518	47.053	0.00	0.00
ATOM	4454	CG	PHE	X	295	48.686	55.393	47.831	0.00	0.00
ATOM	4455	CD1	PHE	X	295	48.072	55.928	48.958	0.00	0.00
ATOM	4456	HD1	PHE	X	295	47.211	55.436	49.386	0.00	0.00
ATOM	4457	CE1	PHE	X	295	48.511	57.055	49.579	0.00	0.00
ATOM	4458	HE1	PHE	X	295	48.029	57.338	50.503	0.00	0.00
ATOM	4459	CZ	PHE	X	295	49.776	57.526	49.170	0.00	0.00
ATOM	4460	HZ	PHE	X	295	50.327	58.301	49.682	0.00	0.00
ATOM	4461	CE2	PHE	X	295	50.480	57.035	48.027	0.00	0.00
ATOM	4462	HE2	PHE	X	295	51.449	57.409	47.730	0.00	0.00
ATOM	4463	CD2	PHE	X	295	49.828	55.940	47.305	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.318	55.358	46.538	0.00	0.00
ATOM	4465	C	PHE	X	295	47.123	51.720	47.504	0.00	0.00
ATOM	4466	O	PHE	X	295	46.971	51.447	46.340	0.00	0.00
ATOM	4467	N	VAL	X	296	46.453	51.135	48.530	0.00	0.00
ATOM	4468	H	VAL	X	296	46.624	51.521	49.448	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.690	49.905	48.460	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.609	49.555	47.431	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.440	48.651	49.169	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.790	47.787	49.310	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.732	48.299	48.426	0.00	0.00
ATOM	4474	HG11	VAL	X	296	48.491	47.699	48.929	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.504	47.735	47.522	0.00	0.00
ATOM	4476	HG13	VAL	X	296	48.215	49.249	48.196	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.876	48.926	50.627	0.00	0.00
ATOM	4478	HG21	VAL	X	296	47.572	48.127	50.886	0.00	0.00
ATOM	4479	HG22	VAL	X	296	45.986	48.946	51.256	0.00	0.00
ATOM	4480	HG23	VAL	X	296	47.287	49.934	50.679	0.00	0.00
ATOM	4481	C	VAL	X	296	44.313	50.152	49.115	0.00	0.00
ATOM	4482	O	VAL	X	296	44.204	51.061	49.876	0.00	0.00
ATOM	4483	N	PRO	X	297	43.266	49.360	48.828	0.00	0.00
ATOM	4484	CD	PRO	X	297	43.144	48.333	47.772	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.592	47.394	48.095	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.490	48.706	46.808	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.641	48.178	47.577	0.00	0.00

ATOM	4488	HG2	PRO	X	297	41.363	47.141	47.385	0.00	0.00
ATOM	4489	HG3	PRO	X	297	41.317	48.931	46.860	0.00	0.00
ATOM	4490	CB	PRO	X	297	40.976	48.579	48.859	0.00	0.00
ATOM	4491	HB2	PRO	X	297	40.983	47.765	49.584	0.00	0.00
ATOM	4492	HB3	PRO	X	297	39.967	48.935	48.649	0.00	0.00
ATOM	4493	CA	PRO	X	297	41.944	49.649	49.341	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.654	50.658	49.049	0.00	0.00
ATOM	4495	C	PRO	X	297	41.943	49.644	50.845	0.00	0.00
ATOM	4496	O	PRO	X	297	42.878	49.164	51.531	0.00	0.00
ATOM	4497	N	VAL	X	298	40.962	50.311	51.472	0.00	0.00
ATOM	4498	H	VAL	X	298	40.194	50.764	50.997	0.00	0.00
ATOM	4499	CA	VAL	X	298	40.996	50.863	52.873	0.00	0.00
ATOM	4500	HA	VAL	X	298	41.777	50.346	53.431	0.00	0.00
ATOM	4501	CB	VAL	X	298	41.314	52.396	52.912	0.00	0.00
ATOM	4502	HB	VAL	X	298	40.469	52.922	52.468	0.00	0.00
ATOM	4503	CG1	VAL	X	298	41.519	52.850	54.390	0.00	0.00
ATOM	4504	HG11	VAL	X	298	40.528	52.958	54.830	0.00	0.00
ATOM	4505	HG12	VAL	X	298	42.084	52.167	55.024	0.00	0.00
ATOM	4506	HG13	VAL	X	298	41.917	53.861	54.487	0.00	0.00
ATOM	4507	CG2	VAL	X	298	42.667	52.610	52.091	0.00	0.00
ATOM	4508	HG21	VAL	X	298	43.348	51.807	52.372	0.00	0.00
ATOM	4509	HG22	VAL	X	298	43.178	53.571	52.143	0.00	0.00
ATOM	4510	HG23	VAL	X	298	42.302	52.508	51.069	0.00	0.00
ATOM	4511	C	VAL	X	298	39.705	50.615	53.658	0.00	0.00
ATOM	4512	O	VAL	X	298	38.637	50.770	53.055	0.00	0.00
ATOM	4513	N	VAL	X	299	39.830	50.228	54.921	0.00	0.00
ATOM	4514	H	VAL	X	299	40.721	50.195	55.396	0.00	0.00
ATOM	4515	CA	VAL	X	299	38.715	50.119	55.848	0.00	0.00
ATOM	4516	HA	VAL	X	299	37.890	49.679	55.288	0.00	0.00
ATOM	4517	CB	VAL	X	299	39.057	49.318	57.155	0.00	0.00
ATOM	4518	HB	VAL	X	299	39.864	49.831	57.679	0.00	0.00
ATOM	4519	CG1	VAL	X	299	37.871	49.308	58.121	0.00	0.00
ATOM	4520	HG11	VAL	X	299	36.991	48.899	57.625	0.00	0.00
ATOM	4521	HG12	VAL	X	299	38.108	48.778	59.044	0.00	0.00
ATOM	4522	HG13	VAL	X	299	37.698	50.301	58.537	0.00	0.00
ATOM	4523	CG2	VAL	X	299	39.518	47.890	56.955	0.00	0.00
ATOM	4524	HG21	VAL	X	299	40.395	47.883	56.309	0.00	0.00
ATOM	4525	HG22	VAL	X	299	38.742	47.354	56.408	0.00	0.00
ATOM	4526	HG23	VAL	X	299	39.784	47.416	57.900	0.00	0.00
ATOM	4527	C	VAL	X	299	38.267	51.591	56.125	0.00	0.00
ATOM	4528	O	VAL	X	299	38.855	52.263	56.928	0.00	0.00
ATOM	4529	N	ASP	X	300	37.260	52.102	55.420	0.00	0.00
ATOM	4530	H	ASP	X	300	36.700	51.381	54.989	0.00	0.00
ATOM	4531	CA	ASP	X	300	36.832	53.490	55.488	0.00	0.00
ATOM	4532	HA	ASP	X	300	37.576	54.161	55.916	0.00	0.00
ATOM	4533	CB	ASP	X	300	36.519	53.854	54.010	0.00	0.00
ATOM	4534	HB2	ASP	X	300	36.461	54.942	53.986	0.00	0.00
ATOM	4535	HB3	ASP	X	300	37.259	53.592	53.255	0.00	0.00
ATOM	4536	CG	ASP	X	300	35.207	53.237	53.457	0.00	0.00
ATOM	4537	OD1	ASP	X	300	34.349	53.898	52.848	0.00	0.00
ATOM	4538	OD2	ASP	X	300	35.015	52.001	53.614	0.00	0.00
ATOM	4539	C	ASP	X	300	35.572	53.671	56.379	0.00	0.00
ATOM	4540	O	ASP	X	300	35.037	54.727	56.375	0.00	0.00
ATOM	4541	N	GLY	X	301	35.003	52.580	56.931	0.00	0.00
ATOM	4542	H	GLY	X	301	35.454	51.712	56.678	0.00	0.00
ATOM	4543	CA	GLY	X	301	33.746	52.566	57.632	0.00	0.00
ATOM	4544	HA2	GLY	X	301	33.612	51.584	58.086	0.00	0.00
ATOM	4545	HA3	GLY	X	301	33.740	53.346	58.393	0.00	0.00
ATOM	4546	C	GLY	X	301	32.418	52.696	56.958	0.00	0.00
ATOM	4547	O	GLY	X	301	31.371	53.049	57.528	0.00	0.00
ATOM	4548	N	ASP	X	302	32.482	52.456	55.672	0.00	0.00
ATOM	4549	H	ASP	X	302	33.413	52.292	55.316	0.00	0.00
ATOM	4550	CA	ASP	X	302	31.204	52.363	54.886	0.00	0.00
ATOM	4551	HA	ASP	X	302	30.366	52.044	55.506	0.00	0.00
ATOM	4552	CB	ASP	X	302	30.859	53.753	54.418	0.00	0.00
ATOM	4553	HB2	ASP	X	302	30.791	54.534	55.175	0.00	0.00
ATOM	4554	HB3	ASP	X	302	31.651	54.137	53.775	0.00	0.00

ATOM	4555	CG	ASP	X	302	29.502	53.822	53.665	0.00	0.00
ATOM	4556	OD1	ASP	X	302	29.599	54.050	52.440	0.00	0.00
ATOM	4557	OD2	ASP	X	302	28.391	53.727	54.224	0.00	0.00
ATOM	4558	C	ASP	X	302	31.266	51.383	53.671	0.00	0.00
ATOM	4559	O	ASP	X	302	30.292	50.689	53.365	0.00	0.00
ATOM	4560	N	PHE	X	303	32.352	51.329	52.955	0.00	0.00
ATOM	4561	H	PHE	X	303	33.117	51.915	53.261	0.00	0.00
ATOM	4562	CA	PHE	X	303	32.630	50.407	51.803	0.00	0.00
ATOM	4563	HA	PHE	X	303	31.708	50.077	51.323	0.00	0.00
ATOM	4564	CB	PHE	X	303	33.565	51.093	50.713	0.00	0.00
ATOM	4565	HB2	PHE	X	303	33.117	52.065	50.506	0.00	0.00
ATOM	4566	HB3	PHE	X	303	34.551	51.302	51.127	0.00	0.00
ATOM	4567	CG	PHE	X	303	33.740	50.377	49.421	0.00	0.00
ATOM	4568	CD1	PHE	X	303	34.465	49.171	49.294	0.00	0.00
ATOM	4569	HD1	PHE	X	303	34.962	48.718	50.139	0.00	0.00
ATOM	4570	CE1	PHE	X	303	34.383	48.433	48.109	0.00	0.00
ATOM	4571	HE1	PHE	X	303	34.983	47.546	47.968	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.758	48.971	46.958	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.789	48.420	46.029	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.077	50.236	47.012	0.00	0.00
ATOM	4575	HE2	PHE	X	303	32.624	50.513	46.072	0.00	0.00
ATOM	4576	CD2	PHE	X	303	33.061	50.859	48.249	0.00	0.00
ATOM	4577	HD2	PHE	X	303	32.467	51.749	48.387	0.00	0.00
ATOM	4578	C	PHE	X	303	33.263	49.083	52.291	0.00	0.00
ATOM	4579	O	PHE	X	303	32.755	48.000	51.940	0.00	0.00
ATOM	4580	N	LEU	X	304	34.184	49.231	53.281	0.00	0.00
ATOM	4581	H	LEU	X	304	34.387	50.203	53.465	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.856	48.141	54.037	0.00	0.00
ATOM	4583	HA	LEU	X	304	34.395	47.177	53.822	0.00	0.00
ATOM	4584	CB	LEU	X	304	36.346	48.050	53.644	0.00	0.00
ATOM	4585	HB2	LEU	X	304	36.844	49.016	53.564	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.837	47.390	54.359	0.00	0.00
ATOM	4587	CG	LEU	X	304	36.617	47.302	52.310	0.00	0.00
ATOM	4588	HG	LEU	X	304	36.004	47.784	51.548	0.00	0.00
ATOM	4589	CD1	LEU	X	304	38.029	47.560	51.906	0.00	0.00
ATOM	4590	HD11	LEU	X	304	38.356	46.775	51.224	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.743	47.542	52.730	0.00	0.00
ATOM	4592	HD13	LEU	X	304	38.100	48.439	51.266	0.00	0.00
ATOM	4593	CD2	LEU	X	304	36.387	45.752	52.219	0.00	0.00
ATOM	4594	HD21	LEU	X	304	35.378	45.534	52.571	0.00	0.00
ATOM	4595	HD22	LEU	X	304	36.419	45.436	51.177	0.00	0.00
ATOM	4596	HD23	LEU	X	304	37.046	45.269	52.940	0.00	0.00
ATOM	4597	C	LEU	X	304	34.759	48.470	55.578	0.00	0.00
ATOM	4598	O	LEU	X	304	35.326	49.517	56.026	0.00	0.00
ATOM	4599	N	SER	X	305	33.991	47.616	56.374	0.00	0.00
ATOM	4600	H	SER	X	305	33.679	46.778	55.905	0.00	0.00
ATOM	4601	CA	SER	X	305	33.720	47.821	57.762	0.00	0.00
ATOM	4602	HA	SER	X	305	33.643	48.868	58.057	0.00	0.00
ATOM	4603	CB	SER	X	305	32.369	47.165	58.183	0.00	0.00
ATOM	4604	HB2	SER	X	305	32.550	46.090	58.180	0.00	0.00
ATOM	4605	HB3	SER	X	305	32.187	47.482	59.210	0.00	0.00
ATOM	4606	OG	SER	X	305	31.229	47.480	57.335	0.00	0.00
ATOM	4607	HG	SER	X	305	30.472	47.573	57.917	0.00	0.00
ATOM	4608	C	SER	X	305	34.873	47.224	58.631	0.00	0.00
ATOM	4609	O	SER	X	305	34.988	47.603	59.858	0.00	0.00
ATOM	4610	N	ASP	X	306	35.727	46.388	58.068	0.00	0.00
ATOM	4611	H	ASP	X	306	35.669	46.251	57.069	0.00	0.00
ATOM	4612	CA	ASP	X	306	36.889	45.720	58.643	0.00	0.00
ATOM	4613	HA	ASP	X	306	37.631	46.333	59.154	0.00	0.00
ATOM	4614	CB	ASP	X	306	36.366	44.648	59.631	0.00	0.00
ATOM	4615	HB2	ASP	X	306	35.499	45.130	60.085	0.00	0.00
ATOM	4616	HB3	ASP	X	306	35.992	43.829	59.017	0.00	0.00
ATOM	4617	CG	ASP	X	306	37.361	44.206	60.741	0.00	0.00
ATOM	4618	OD1	ASP	X	306	38.457	43.783	60.438	0.00	0.00
ATOM	4619	OD2	ASP	X	306	36.966	44.094	61.880	0.00	0.00
ATOM	4620	C	ASP	X	306	37.688	45.043	57.534	0.00	0.00
ATOM	4621	O	ASP	X	306	37.249	45.134	56.367	0.00	0.00

ATOM	4622	N	THR	X	307	38.858	44.423	57.840	0.00	0.00
ATOM	4623	H	THR	X	307	39.211	44.207	58.761	0.00	0.00
ATOM	4624	CA	THR	X	307	39.685	43.839	56.763	0.00	0.00
ATOM	4625	HA	THR	X	307	39.760	44.564	55.953	0.00	0.00
ATOM	4626	CB	THR	X	307	41.031	43.525	57.216	0.00	0.00
ATOM	4627	HB	THR	X	307	41.646	42.962	56.514	0.00	0.00
ATOM	4628	CG2	THR	X	307	41.831	44.862	57.449	0.00	0.00
ATOM	4629	HG21	THR	X	307	41.262	45.493	58.132	0.00	0.00
ATOM	4630	HG22	THR	X	307	41.827	45.452	56.532	0.00	0.00
ATOM	4631	HG23	THR	X	307	42.836	44.575	57.757	0.00	0.00
ATOM	4632	OG1	THR	X	307	41.065	42.733	58.388	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.970	42.833	58.691	0.00	0.00
ATOM	4634	C	THR	X	307	38.925	42.648	56.125	0.00	0.00
ATOM	4635	O	THR	X	307	38.322	41.915	56.873	0.00	0.00
ATOM	4636	N	PRO	X	308	39.171	42.304	54.818	0.00	0.00
ATOM	4637	CD	PRO	X	308	39.834	43.058	53.862	0.00	0.00
ATOM	4638	HD2	PRO	X	308	40.908	43.103	54.043	0.00	0.00
ATOM	4639	HD3	PRO	X	308	39.607	44.122	53.938	0.00	0.00
ATOM	4640	CG	PRO	X	308	39.374	42.589	52.543	0.00	0.00
ATOM	4641	HG2	PRO	X	308	40.193	42.692	51.831	0.00	0.00
ATOM	4642	HG3	PRO	X	308	38.508	43.188	52.260	0.00	0.00
ATOM	4643	CB	PRO	X	308	38.989	41.186	52.809	0.00	0.00
ATOM	4644	HB2	PRO	X	308	39.946	40.666	52.856	0.00	0.00
ATOM	4645	HB3	PRO	X	308	38.255	40.717	52.154	0.00	0.00
ATOM	4646	CA	PRO	X	308	38.402	41.287	54.186	0.00	0.00
ATOM	4647	HA	PRO	X	308	37.358	41.595	54.132	0.00	0.00
ATOM	4648	C	PRO	X	308	38.388	39.872	54.757	0.00	0.00
ATOM	4649	O	PRO	X	308	37.343	39.192	54.640	0.00	0.00
ATOM	4650	N	GLU	X	309	39.464	39.442	55.509	0.00	0.00
ATOM	4651	H	GLU	X	309	40.327	39.953	55.392	0.00	0.00
ATOM	4652	CA	GLU	X	309	39.452	38.205	56.323	0.00	0.00
ATOM	4653	HA	GLU	X	309	39.219	37.373	55.659	0.00	0.00
ATOM	4654	CB	GLU	X	309	40.873	37.945	56.872	0.00	0.00
ATOM	4655	HB2	GLU	X	309	40.863	36.957	57.332	0.00	0.00
ATOM	4656	HB3	GLU	X	309	41.641	37.904	56.100	0.00	0.00
ATOM	4657	CG	GLU	X	309	41.293	38.939	57.962	0.00	0.00
ATOM	4658	HG2	GLU	X	309	41.521	39.877	57.455	0.00	0.00
ATOM	4659	HG3	GLU	X	309	40.502	39.212	58.661	0.00	0.00
ATOM	4660	CD	GLU	X	309	42.519	38.442	58.677	0.00	0.00
ATOM	4661	OE1	GLU	X	309	43.622	38.635	58.075	0.00	0.00
ATOM	4662	OE2	GLU	X	309	42.462	37.799	59.713	0.00	0.00
ATOM	4663	C	GLU	X	309	38.466	38.182	57.446	0.00	0.00
ATOM	4664	O	GLU	X	309	38.010	37.091	57.814	0.00	0.00
ATOM	4665	N	ALA	X	310	38.181	39.400	58.047	0.00	0.00
ATOM	4666	H	ALA	X	310	38.483	40.229	57.556	0.00	0.00
ATOM	4667	CA	ALA	X	310	37.171	39.556	59.013	0.00	0.00
ATOM	4668	HA	ALA	X	310	37.289	38.807	59.796	0.00	0.00
ATOM	4669	CB	ALA	X	310	37.427	40.950	59.673	0.00	0.00
ATOM	4670	HB1	ALA	X	310	37.285	41.771	58.970	0.00	0.00
ATOM	4671	HB2	ALA	X	310	38.407	41.034	60.141	0.00	0.00
ATOM	4672	HB3	ALA	X	310	36.638	41.046	60.419	0.00	0.00
ATOM	4673	C	ALA	X	310	35.806	39.448	58.336	0.00	0.00
ATOM	4674	O	ALA	X	310	34.898	38.931	58.937	0.00	0.00
ATOM	4675	N	LEU	X	311	35.702	40.008	57.151	0.00	0.00
ATOM	4676	H	LEU	X	311	36.560	40.292	56.701	0.00	0.00
ATOM	4677	CA	LEU	X	311	34.428	40.217	56.435	0.00	0.00
ATOM	4678	HA	LEU	X	311	33.764	40.462	57.264	0.00	0.00
ATOM	4679	CB	LEU	X	311	34.474	41.345	55.373	0.00	0.00
ATOM	4680	HB2	LEU	X	311	35.395	41.149	54.822	0.00	0.00
ATOM	4681	HB3	LEU	X	311	33.641	41.309	54.671	0.00	0.00
ATOM	4682	CG	LEU	X	311	34.747	42.692	55.961	0.00	0.00
ATOM	4683	HG	LEU	X	311	35.716	42.599	56.452	0.00	0.00
ATOM	4684	CD1	LEU	X	311	34.755	43.702	54.761	0.00	0.00
ATOM	4685	HD11	LEU	X	311	35.124	44.679	55.070	0.00	0.00
ATOM	4686	HD12	LEU	X	311	33.843	43.723	54.164	0.00	0.00
ATOM	4687	HD13	LEU	X	311	35.454	43.343	54.005	0.00	0.00
ATOM	4688	CD2	LEU	X	311	33.714	43.203	57.008	0.00	0.00

ATOM	4689	HD21	LEU	X	311	32.853	43.652	56.514	0.00	0.00
ATOM	4690	HD22	LEU	X	311	33.530	42.480	57.802	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.234	44.040	57.475	0.00	0.00
ATOM	4692	C	LEU	X	311	33.872	38.959	55.664	0.00	0.00
ATOM	4693	O	LEU	X	311	32.623	38.815	55.595	0.00	0.00
ATOM	4694	N	ILE	X	312	34.752	38.087	55.200	0.00	0.00
ATOM	4695	H	ILE	X	312	35.721	38.367	55.246	0.00	0.00
ATOM	4696	CA	ILE	X	312	34.374	36.777	54.721	0.00	0.00
ATOM	4697	HA	ILE	X	312	33.537	36.981	54.053	0.00	0.00
ATOM	4698	CB	ILE	X	312	35.704	36.321	54.031	0.00	0.00
ATOM	4699	HB	ILE	X	312	35.969	37.088	53.304	0.00	0.00
ATOM	4700	CG2	ILE	X	312	36.847	36.025	55.000	0.00	0.00
ATOM	4701	HG21	ILE	X	312	37.707	35.681	54.426	0.00	0.00
ATOM	4702	HG22	ILE	X	312	36.684	35.151	55.630	0.00	0.00
ATOM	4703	HG23	ILE	X	312	37.131	36.928	55.540	0.00	0.00
ATOM	4704	CG1	ILE	X	312	35.565	34.999	53.195	0.00	0.00
ATOM	4705	HG12	ILE	X	312	36.534	34.937	52.699	0.00	0.00
ATOM	4706	HG13	ILE	X	312	35.588	34.140	53.865	0.00	0.00
ATOM	4707	CD1	ILE	X	312	34.385	35.008	52.192	0.00	0.00
ATOM	4708	HD11	ILE	X	312	33.391	34.889	52.622	0.00	0.00
ATOM	4709	HD12	ILE	X	312	34.548	34.252	51.423	0.00	0.00
ATOM	4710	HD13	ILE	X	312	34.454	35.913	51.589	0.00	0.00
ATOM	4711	C	ILE	X	312	33.860	35.881	55.883	0.00	0.00
ATOM	4712	O	ILE	X	312	33.080	34.926	55.614	0.00	0.00
ATOM	4713	N	ASN	X	313	34.121	36.170	57.143	0.00	0.00
ATOM	4714	H	ASN	X	313	34.773	36.927	57.294	0.00	0.00
ATOM	4715	CA	ASN	X	313	33.614	35.484	58.373	0.00	0.00
ATOM	4716	HA	ASN	X	313	33.330	34.446	58.202	0.00	0.00
ATOM	4717	CB	ASN	X	313	34.756	35.340	59.340	0.00	0.00
ATOM	4718	HB2	ASN	X	313	35.425	36.195	59.434	0.00	0.00
ATOM	4719	HB3	ASN	X	313	34.319	35.133	60.317	0.00	0.00
ATOM	4720	CG	ASN	X	313	35.646	34.170	59.012	0.00	0.00
ATOM	4721	OD1	ASN	X	313	35.388	33.031	59.320	0.00	0.00
ATOM	4722	ND2	ASN	X	313	36.725	34.380	58.279	0.00	0.00
ATOM	4723	HD21	ASN	X	313	37.293	33.586	58.016	0.00	0.00
ATOM	4724	HD22	ASN	X	313	37.002	35.315	58.016	0.00	0.00
ATOM	4725	C	ASN	X	313	32.456	36.317	58.993	0.00	0.00
ATOM	4726	O	ASN	X	313	31.665	35.783	59.775	0.00	0.00
ATOM	4727	N	ALA	X	314	32.360	37.608	58.589	0.00	0.00
ATOM	4728	H	ALA	X	314	33.056	38.080	58.029	0.00	0.00
ATOM	4729	CA	ALA	X	314	31.193	38.424	59.096	0.00	0.00
ATOM	4730	HA	ALA	X	314	30.928	38.179	60.124	0.00	0.00
ATOM	4731	CB	ALA	X	314	31.557	39.892	59.034	0.00	0.00
ATOM	4732	HB1	ALA	X	314	31.582	40.191	57.986	0.00	0.00
ATOM	4733	HB2	ALA	X	314	32.503	40.061	59.548	0.00	0.00
ATOM	4734	HB3	ALA	X	314	30.847	40.577	59.497	0.00	0.00
ATOM	4735	C	ALA	X	314	29.867	38.298	58.352	0.00	0.00
ATOM	4736	O	ALA	X	314	28.796	38.541	58.939	0.00	0.00
ATOM	4737	N	GLY	X	315	29.946	37.748	57.181	0.00	0.00
ATOM	4738	H	GLY	X	315	30.841	37.664	56.720	0.00	0.00
ATOM	4739	CA	GLY	X	315	28.723	37.575	56.267	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.924	38.247	56.580	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.894	37.964	55.263	0.00	0.00
ATOM	4742	C	GLY	X	315	28.272	36.031	56.149	0.00	0.00
ATOM	4743	O	GLY	X	315	28.645	35.230	56.991	0.00	0.00
ATOM	4744	N	ASP	X	316	27.429	35.736	55.147	0.00	0.00
ATOM	4745	H	ASP	X	316	27.161	36.535	54.591	0.00	0.00
ATOM	4746	CA	ASP	X	316	27.012	34.399	54.716	0.00	0.00
ATOM	4747	HA	ASP	X	316	27.757	33.665	55.022	0.00	0.00
ATOM	4748	CB	ASP	X	316	25.723	34.158	55.502	0.00	0.00
ATOM	4749	HB2	ASP	X	316	25.911	34.204	56.575	0.00	0.00
ATOM	4750	HB3	ASP	X	316	24.937	34.908	55.412	0.00	0.00
ATOM	4751	CG	ASP	X	316	25.153	32.824	55.113	0.00	0.00
ATOM	4752	OD1	ASP	X	316	23.942	32.620	55.200	0.00	0.00
ATOM	4753	OD2	ASP	X	316	25.963	31.893	54.805	0.00	0.00
ATOM	4754	C	ASP	X	316	26.783	34.385	53.191	0.00	0.00
ATOM	4755	O	ASP	X	316	26.351	35.386	52.594	0.00	0.00

ATOM	4756	N	PHE	X	317	27.100	33.239	52.546	0.00	0.00
ATOM	4757	H	PHE	X	317	27.095	32.366	53.055	0.00	0.00
ATOM	4758	CA	PHE	X	317	27.502	33.172	51.140	0.00	0.00
ATOM	4759	HA	PHE	X	317	27.203	34.140	50.738	0.00	0.00
ATOM	4760	CB	PHE	X	317	29.057	33.260	51.109	0.00	0.00
ATOM	4761	HB2	PHE	X	317	29.442	32.340	51.549	0.00	0.00
ATOM	4762	HB3	PHE	X	317	29.200	33.211	50.030	0.00	0.00
ATOM	4763	CG	PHE	X	317	29.694	34.507	51.693	0.00	0.00
ATOM	4764	CD1	PHE	X	317	29.940	35.554	50.823	0.00	0.00
ATOM	4765	HD1	PHE	X	317	29.861	35.471	49.749	0.00	0.00
ATOM	4766	CE1	PHE	X	317	30.434	36.797	51.405	0.00	0.00
ATOM	4767	HE1	PHE	X	317	30.742	37.556	50.702	0.00	0.00
ATOM	4768	CZ	PHE	X	317	30.721	36.948	52.778	0.00	0.00
ATOM	4769	HZ	PHE	X	317	31.091	37.903	53.121	0.00	0.00
ATOM	4770	CE2	PHE	X	317	30.431	35.871	53.674	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.450	35.929	54.752	0.00	0.00
ATOM	4772	CD2	PHE	X	317	30.025	34.646	53.088	0.00	0.00
ATOM	4773	HD2	PHE	X	317	29.827	33.785	53.709	0.00	0.00
ATOM	4774	C	PHE	X	317	26.977	31.937	50.382	0.00	0.00
ATOM	4775	O	PHE	X	317	27.480	31.482	49.347	0.00	0.00
ATOM	4776	N	HIE	X	318	25.963	31.283	50.999	0.00	0.00
ATOM	4777	H	HIE	X	318	25.581	31.602	51.878	0.00	0.00
ATOM	4778	CA	HIE	X	318	25.101	30.319	50.325	0.00	0.00
ATOM	4779	HA	HIE	X	318	25.573	29.337	50.312	0.00	0.00
ATOM	4780	CB	HIE	X	318	23.772	30.227	51.094	0.00	0.00
ATOM	4781	HB2	HIE	X	318	23.891	30.025	52.158	0.00	0.00
ATOM	4782	HB3	HIE	X	318	23.242	31.137	50.811	0.00	0.00
ATOM	4783	CG	HIE	X	318	22.981	29.010	50.651	0.00	0.00
ATOM	4784	ND1	HIE	X	318	23.526	27.872	49.989	0.00	0.00
ATOM	4785	CE1	HIE	X	318	22.439	27.092	49.652	0.00	0.00
ATOM	4786	HE1	HIE	X	318	22.463	26.172	49.087	0.00	0.00
ATOM	4787	NE2	HIE	X	318	21.353	27.701	50.079	0.00	0.00
ATOM	4788	HE2	HIE	X	318	20.441	27.273	50.005	0.00	0.00
ATOM	4789	CD2	HIE	X	318	21.635	28.930	50.693	0.00	0.00
ATOM	4790	HD2	HIE	X	318	20.940	29.713	50.959	0.00	0.00
ATOM	4791	C	HIE	X	318	24.880	30.649	48.841	0.00	0.00
ATOM	4792	O	HIE	X	318	24.697	31.801	48.486	0.00	0.00
ATOM	4793	N	GLY	X	319	24.802	29.642	47.951	0.00	0.00
ATOM	4794	H	GLY	X	319	25.011	28.719	48.304	0.00	0.00
ATOM	4795	CA	GLY	X	319	24.382	29.761	46.574	0.00	0.00
ATOM	4796	HA2	GLY	X	319	24.560	28.766	46.165	0.00	0.00
ATOM	4797	HA3	GLY	X	319	23.326	30.028	46.523	0.00	0.00
ATOM	4798	C	GLY	X	319	25.198	30.702	45.641	0.00	0.00
ATOM	4799	O	GLY	X	319	24.789	30.904	44.532	0.00	0.00
ATOM	4800	N	LEU	X	320	26.320	31.230	46.084	0.00	0.00
ATOM	4801	H	LEU	X	320	26.585	31.075	47.046	0.00	0.00
ATOM	4802	CA	LEU	X	320	27.206	31.842	45.130	0.00	0.00
ATOM	4803	HA	LEU	X	320	26.684	32.368	44.331	0.00	0.00
ATOM	4804	CB	LEU	X	320	28.046	32.884	45.928	0.00	0.00
ATOM	4805	HB2	LEU	X	320	28.704	32.272	46.546	0.00	0.00
ATOM	4806	HB3	LEU	X	320	28.719	33.400	45.243	0.00	0.00
ATOM	4807	CG	LEU	X	320	27.256	33.907	46.761	0.00	0.00
ATOM	4808	HG	LEU	X	320	26.683	33.318	47.477	0.00	0.00
ATOM	4809	CD1	LEU	X	320	28.170	34.780	47.604	0.00	0.00
ATOM	4810	HD11	LEU	X	320	27.504	35.179	48.370	0.00	0.00
ATOM	4811	HD12	LEU	X	320	28.752	35.414	46.936	0.00	0.00
ATOM	4812	HD13	LEU	X	320	28.966	34.185	48.052	0.00	0.00
ATOM	4813	CD2	LEU	X	320	26.249	34.785	45.920	0.00	0.00
ATOM	4814	HD21	LEU	X	320	25.493	34.114	45.511	0.00	0.00
ATOM	4815	HD22	LEU	X	320	25.744	35.502	46.567	0.00	0.00
ATOM	4816	HD23	LEU	X	320	26.688	35.308	45.070	0.00	0.00
ATOM	4817	C	LEU	X	320	28.127	30.772	44.532	0.00	0.00
ATOM	4818	O	LEU	X	320	28.307	29.705	45.103	0.00	0.00
ATOM	4819	N	GLN	X	321	28.522	30.875	43.292	0.00	0.00
ATOM	4820	H	GLN	X	321	28.452	31.797	42.885	0.00	0.00
ATOM	4821	CA	GLN	X	321	29.402	29.902	42.640	0.00	0.00
ATOM	4822	HA	GLN	X	321	29.528	29.029	43.281	0.00	0.00

ATOM	4823	CB	GLN	X	321	28.622	29.508	41.401	0.00	0.00
ATOM	4824	HB2	GLN	X	321	28.283	30.429	40.926	0.00	0.00
ATOM	4825	HB3	GLN	X	321	29.352	29.043	40.738	0.00	0.00
ATOM	4826	CG	GLN	X	321	27.454	28.552	41.642	0.00	0.00
ATOM	4827	HG2	GLN	X	321	27.917	27.586	41.842	0.00	0.00
ATOM	4828	HG3	GLN	X	321	26.869	28.942	42.474	0.00	0.00
ATOM	4829	CD	GLN	X	321	26.413	28.270	40.496	0.00	0.00
ATOM	4830	OE1	GLN	X	321	26.574	28.458	39.314	0.00	0.00
ATOM	4831	NE2	GLN	X	321	25.257	27.701	40.932	0.00	0.00
ATOM	4832	HE21	GLN	X	321	24.595	27.643	40.171	0.00	0.00
ATOM	4833	HE22	GLN	X	321	25.038	27.640	41.916	0.00	0.00
ATOM	4834	C	GLN	X	321	30.691	30.561	42.246	0.00	0.00
ATOM	4835	O	GLN	X	321	30.538	31.606	41.523	0.00	0.00
ATOM	4836	N	VAL	X	322	31.827	30.039	42.657	0.00	0.00
ATOM	4837	H	VAL	X	322	31.757	29.249	43.282	0.00	0.00
ATOM	4838	CA	VAL	X	322	33.141	30.621	42.570	0.00	0.00
ATOM	4839	HA	VAL	X	322	33.160	31.473	41.891	0.00	0.00
ATOM	4840	CB	VAL	X	322	33.622	31.217	43.900	0.00	0.00
ATOM	4841	HB	VAL	X	322	34.567	31.719	43.694	0.00	0.00
ATOM	4842	CG1	VAL	X	322	32.689	32.307	44.520	0.00	0.00
ATOM	4843	HG11	VAL	X	322	33.103	32.817	45.390	0.00	0.00
ATOM	4844	HG12	VAL	X	322	32.413	33.084	43.806	0.00	0.00
ATOM	4845	HG13	VAL	X	322	31.761	31.845	44.857	0.00	0.00
ATOM	4846	CG2	VAL	X	322	33.976	30.301	45.041	0.00	0.00
ATOM	4847	HG21	VAL	X	322	34.639	29.525	44.658	0.00	0.00
ATOM	4848	HG22	VAL	X	322	33.101	29.804	45.459	0.00	0.00
ATOM	4849	HG23	VAL	X	322	34.510	30.878	45.796	0.00	0.00
ATOM	4850	C	VAL	X	322	34.207	29.597	42.147	0.00	0.00
ATOM	4851	O	VAL	X	322	34.018	28.405	42.484	0.00	0.00
ATOM	4852	N	LEU	X	323	35.264	29.965	41.410	0.00	0.00
ATOM	4853	H	LEU	X	323	35.312	30.949	41.183	0.00	0.00
ATOM	4854	CA	LEU	X	323	36.427	29.050	41.142	0.00	0.00
ATOM	4855	HA	LEU	X	323	36.263	28.150	41.734	0.00	0.00
ATOM	4856	CB	LEU	X	323	36.191	28.583	39.710	0.00	0.00
ATOM	4857	HB2	LEU	X	323	35.222	28.083	39.717	0.00	0.00
ATOM	4858	HB3	LEU	X	323	36.206	29.472	39.081	0.00	0.00
ATOM	4859	CG	LEU	X	323	37.085	27.524	39.059	0.00	0.00
ATOM	4860	HG	LEU	X	323	37.432	26.842	39.836	0.00	0.00
ATOM	4861	CD1	LEU	X	323	36.272	26.759	37.943	0.00	0.00
ATOM	4862	HD11	LEU	X	323	35.509	26.247	38.530	0.00	0.00
ATOM	4863	HD12	LEU	X	323	36.916	26.147	37.311	0.00	0.00
ATOM	4864	HD13	LEU	X	323	35.790	27.491	37.294	0.00	0.00
ATOM	4865	CD2	LEU	X	323	38.339	28.199	38.485	0.00	0.00
ATOM	4866	HD21	LEU	X	323	39.020	28.659	39.201	0.00	0.00
ATOM	4867	HD22	LEU	X	323	38.858	27.375	37.994	0.00	0.00
ATOM	4868	HD23	LEU	X	323	38.036	29.077	37.916	0.00	0.00
ATOM	4869	C	LEU	X	323	37.771	29.685	41.541	0.00	0.00
ATOM	4870	O	LEU	X	323	38.076	30.851	41.199	0.00	0.00
ATOM	4871	N	VAL	X	324	38.565	29.089	42.424	0.00	0.00
ATOM	4872	H	VAL	X	324	38.352	28.173	42.791	0.00	0.00
ATOM	4873	CA	VAL	X	324	39.789	29.682	43.139	0.00	0.00
ATOM	4874	HA	VAL	X	324	39.935	30.701	42.779	0.00	0.00
ATOM	4875	CB	VAL	X	324	39.674	29.640	44.691	0.00	0.00
ATOM	4876	HB	VAL	X	324	40.654	29.765	45.152	0.00	0.00
ATOM	4877	CG1	VAL	X	324	38.656	30.687	45.152	0.00	0.00
ATOM	4878	HG11	VAL	X	324	39.017	31.676	44.869	0.00	0.00
ATOM	4879	HG12	VAL	X	324	37.686	30.536	44.680	0.00	0.00
ATOM	4880	HG13	VAL	X	324	38.602	30.601	46.237	0.00	0.00
ATOM	4881	CG2	VAL	X	324	39.224	28.270	45.275	0.00	0.00
ATOM	4882	HG21	VAL	X	324	39.225	28.325	46.363	0.00	0.00
ATOM	4883	HG22	VAL	X	324	39.854	27.511	44.811	0.00	0.00
ATOM	4884	HG23	VAL	X	324	38.194	28.205	44.925	0.00	0.00
ATOM	4885	C	VAL	X	324	41.081	28.984	42.639	0.00	0.00
ATOM	4886	O	VAL	X	324	40.981	27.868	42.201	0.00	0.00
ATOM	4887	N	GLY	X	325	42.333	29.472	42.913	0.00	0.00
ATOM	4888	H	GLY	X	325	42.473	30.415	43.245	0.00	0.00
ATOM	4889	CA	GLY	X	325	43.608	28.703	42.738	0.00	0.00

ATOM	4890	HA2	GLY	X	325	43.762	28.140	43.659	0.00	0.00
ATOM	4891	HA3	GLY	X	325	43.507	27.998	41.913	0.00	0.00
ATOM	4892	C	GLY	X	325	44.783	29.591	42.554	0.00	0.00
ATOM	4893	O	GLY	X	325	44.683	30.749	42.823	0.00	0.00
ATOM	4894	N	VAL	X	326	45.898	28.963	42.280	0.00	0.00
ATOM	4895	H	VAL	X	326	45.923	27.954	42.246	0.00	0.00
ATOM	4896	CA	VAL	X	326	47.224	29.516	42.649	0.00	0.00
ATOM	4897	HA	VAL	X	326	47.142	30.595	42.511	0.00	0.00
ATOM	4898	CB	VAL	X	326	47.774	29.296	44.159	0.00	0.00
ATOM	4899	HB	VAL	X	326	48.772	29.706	44.314	0.00	0.00
ATOM	4900	CG1	VAL	X	326	46.936	30.121	45.107	0.00	0.00
ATOM	4901	HG11	VAL	X	326	45.930	29.772	45.341	0.00	0.00
ATOM	4902	HG12	VAL	X	326	47.499	30.252	46.031	0.00	0.00
ATOM	4903	HG13	VAL	X	326	46.955	31.123	44.678	0.00	0.00
ATOM	4904	CG2	VAL	X	326	47.691	27.808	44.643	0.00	0.00
ATOM	4905	HG21	VAL	X	326	46.648	27.519	44.514	0.00	0.00
ATOM	4906	HG22	VAL	X	326	47.909	27.625	45.695	0.00	0.00
ATOM	4907	HG23	VAL	X	326	48.210	27.167	43.930	0.00	0.00
ATOM	4908	C	VAL	X	326	48.242	28.940	41.720	0.00	0.00
ATOM	4909	O	VAL	X	326	48.009	28.006	41.019	0.00	0.00
ATOM	4910	N	VAL	X	327	49.405	29.580	41.541	0.00	0.00
ATOM	4911	H	VAL	X	327	49.562	30.340	42.187	0.00	0.00
ATOM	4912	CA	VAL	X	327	50.562	28.954	40.829	0.00	0.00
ATOM	4913	HA	VAL	X	327	50.178	28.145	40.206	0.00	0.00
ATOM	4914	CB	VAL	X	327	51.389	29.973	39.932	0.00	0.00
ATOM	4915	HB	VAL	X	327	52.072	29.419	39.288	0.00	0.00
ATOM	4916	CG1	VAL	X	327	50.351	30.576	38.950	0.00	0.00
ATOM	4917	HG11	VAL	X	327	50.864	31.148	38.177	0.00	0.00
ATOM	4918	HG12	VAL	X	327	49.769	29.755	38.531	0.00	0.00
ATOM	4919	HG13	VAL	X	327	49.642	31.206	39.488	0.00	0.00
ATOM	4920	CG2	VAL	X	327	52.160	30.951	40.775	0.00	0.00
ATOM	4921	HG21	VAL	X	327	52.662	30.460	41.609	0.00	0.00
ATOM	4922	HG22	VAL	X	327	51.430	31.608	41.247	0.00	0.00
ATOM	4923	HG23	VAL	X	327	52.811	31.509	40.102	0.00	0.00
ATOM	4924	C	VAL	X	327	51.387	28.146	41.831	0.00	0.00
ATOM	4925	O	VAL	X	327	51.391	28.450	42.984	0.00	0.00
ATOM	4926	N	LYS	X	328	52.276	27.200	41.331	0.00	0.00
ATOM	4927	H	LYS	X	328	52.306	27.156	40.322	0.00	0.00
ATOM	4928	CA	LYS	X	328	53.096	26.445	42.163	0.00	0.00
ATOM	4929	HA	LYS	X	328	52.504	25.880	42.883	0.00	0.00
ATOM	4930	CB	LYS	X	328	53.813	25.494	41.371	0.00	0.00
ATOM	4931	HB2	LYS	X	328	53.140	24.936	40.720	0.00	0.00
ATOM	4932	HB3	LYS	X	328	54.556	26.035	40.785	0.00	0.00
ATOM	4933	CG	LYS	X	328	54.551	24.301	42.180	0.00	0.00
ATOM	4934	HG2	LYS	X	328	55.475	24.720	42.579	0.00	0.00
ATOM	4935	HG3	LYS	X	328	53.838	23.985	42.942	0.00	0.00
ATOM	4936	CD	LYS	X	328	54.956	23.152	41.269	0.00	0.00
ATOM	4937	HD2	LYS	X	328	55.599	22.480	41.838	0.00	0.00
ATOM	4938	HD3	LYS	X	328	54.076	22.700	40.812	0.00	0.00
ATOM	4939	CE	LYS	X	328	55.896	23.641	40.121	0.00	0.00
ATOM	4940	HE2	LYS	X	328	56.020	22.849	39.382	0.00	0.00
ATOM	4941	HE3	LYS	X	328	55.428	24.515	39.668	0.00	0.00
ATOM	4942	NZ	LYS	X	328	57.256	24.074	40.583	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	57.869	23.399	41.018	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	57.776	24.307	39.750	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	57.268	24.979	41.032	0.00	0.00
ATOM	4946	C	LYS	X	328	54.031	27.241	43.052	0.00	0.00
ATOM	4947	O	LYS	X	328	54.090	26.958	44.262	0.00	0.00
ATOM	4948	N	ASP	X	329	54.858	28.171	42.581	0.00	0.00
ATOM	4949	H	ASP	X	329	54.830	28.304	41.580	0.00	0.00
ATOM	4950	CA	ASP	X	329	55.961	28.735	43.376	0.00	0.00
ATOM	4951	HA	ASP	X	329	56.238	28.119	44.231	0.00	0.00
ATOM	4952	CB	ASP	X	329	57.200	28.841	42.400	0.00	0.00
ATOM	4953	HB2	ASP	X	329	57.103	29.534	41.565	0.00	0.00
ATOM	4954	HB3	ASP	X	329	58.072	29.102	42.999	0.00	0.00
ATOM	4955	CG	ASP	X	329	57.548	27.435	41.809	0.00	0.00
ATOM	4956	OD1	ASP	X	329	58.242	26.658	42.515	0.00	0.00

ATOM	4957	OD2	ASP	X	329	57.220	27.153	40.645	0.00	0.00
ATOM	4958	C	ASP	X	329	55.709	30.167	43.984	0.00	0.00
ATOM	4959	O	ASP	X	329	56.638	30.656	44.643	0.00	0.00
ATOM	4960	N	GLU	X	330	54.529	30.731	43.732	0.00	0.00
ATOM	4961	H	GLU	X	330	53.938	30.126	43.180	0.00	0.00
ATOM	4962	CA	GLU	X	330	54.083	32.105	44.022	0.00	0.00
ATOM	4963	HA	GLU	X	330	53.494	32.388	43.149	0.00	0.00
ATOM	4964	CB	GLU	X	330	52.979	32.091	45.094	0.00	0.00
ATOM	4965	HB2	GLU	X	330	53.357	31.721	46.047	0.00	0.00
ATOM	4966	HB3	GLU	X	330	52.694	33.107	45.365	0.00	0.00
ATOM	4967	CG	GLU	X	330	51.681	31.394	44.595	0.00	0.00
ATOM	4968	HG2	GLU	X	330	51.905	30.445	44.106	0.00	0.00
ATOM	4969	HG3	GLU	X	330	51.129	30.970	45.434	0.00	0.00
ATOM	4970	CD	GLU	X	330	50.700	32.268	43.721	0.00	0.00
ATOM	4971	OE1	GLU	X	330	51.269	33.291	43.248	0.00	0.00
ATOM	4972	OE2	GLU	X	330	49.699	31.788	43.197	0.00	0.00
ATOM	4973	C	GLU	X	330	55.051	33.259	44.374	0.00	0.00
ATOM	4974	O	GLU	X	330	55.110	34.266	43.678	0.00	0.00
ATOM	4975	N	GLY	X	331	55.650	33.114	45.508	0.00	0.00
ATOM	4976	H	GLY	X	331	55.546	32.223	45.972	0.00	0.00
ATOM	4977	CA	GLY	X	331	56.529	34.066	46.235	0.00	0.00
ATOM	4978	HA2	GLY	X	331	56.165	35.083	46.087	0.00	0.00
ATOM	4979	HA3	GLY	X	331	56.532	33.757	47.280	0.00	0.00
ATOM	4980	C	GLY	X	331	57.976	34.036	45.695	0.00	0.00
ATOM	4981	O	GLY	X	331	58.836	34.839	46.065	0.00	0.00
ATOM	4982	N	SER	X	332	58.310	33.052	44.819	0.00	0.00
ATOM	4983	H	SER	X	332	57.607	32.349	44.639	0.00	0.00
ATOM	4984	CA	SER	X	332	59.488	33.005	44.013	0.00	0.00
ATOM	4985	HA	SER	X	332	60.354	33.022	44.674	0.00	0.00
ATOM	4986	CB	SER	X	332	59.633	31.688	43.298	0.00	0.00
ATOM	4987	HB2	SER	X	332	60.575	31.763	42.755	0.00	0.00
ATOM	4988	HB3	SER	X	332	59.650	30.812	43.948	0.00	0.00
ATOM	4989	OG	SER	X	332	58.644	31.514	42.310	0.00	0.00
ATOM	4990	HG	SER	X	332	58.715	30.645	41.908	0.00	0.00
ATOM	4991	C	SER	X	332	59.563	34.213	43.115	0.00	0.00
ATOM	4992	O	SER	X	332	60.695	34.714	42.788	0.00	0.00
ATOM	4993	N	TYR	X	333	58.421	34.793	42.723	0.00	0.00
ATOM	4994	H	TYR	X	333	57.542	34.362	42.973	0.00	0.00
ATOM	4995	CA	TYR	X	333	58.358	35.845	41.705	0.00	0.00
ATOM	4996	HA	TYR	X	333	59.029	35.624	40.875	0.00	0.00
ATOM	4997	CB	TYR	X	333	56.941	35.810	41.160	0.00	0.00
ATOM	4998	HB2	TYR	X	333	56.702	34.910	40.592	0.00	0.00
ATOM	4999	HB3	TYR	X	333	56.406	35.857	42.108	0.00	0.00
ATOM	5000	CG	TYR	X	333	56.619	37.039	40.214	0.00	0.00
ATOM	5001	CD1	TYR	X	333	57.152	37.181	38.892	0.00	0.00
ATOM	5002	HD1	TYR	X	333	57.822	36.413	38.534	0.00	0.00
ATOM	5003	CE1	TYR	X	333	56.907	38.392	38.183	0.00	0.00
ATOM	5004	HE1	TYR	X	333	57.245	38.537	37.168	0.00	0.00
ATOM	5005	CZ	TYR	X	333	56.093	39.421	38.797	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.932	40.650	38.245	0.00	0.00
ATOM	5007	HH	TYR	X	333	56.282	40.783	37.360	0.00	0.00
ATOM	5008	CE2	TYR	X	333	55.482	39.179	40.020	0.00	0.00
ATOM	5009	HE2	TYR	X	333	54.780	39.916	40.383	0.00	0.00
ATOM	5010	CD2	TYR	X	333	55.851	38.066	40.813	0.00	0.00
ATOM	5011	HD2	TYR	X	333	55.530	37.950	41.838	0.00	0.00
ATOM	5012	C	TYR	X	333	58.605	37.230	42.257	0.00	0.00
ATOM	5013	O	TYR	X	333	58.962	38.217	41.575	0.00	0.00
ATOM	5014	N	PHE	X	334	58.477	37.397	43.561	0.00	0.00
ATOM	5015	H	PHE	X	334	58.337	36.587	44.149	0.00	0.00
ATOM	5016	CA	PHE	X	334	58.707	38.649	44.159	0.00	0.00
ATOM	5017	HA	PHE	X	334	58.505	39.479	43.482	0.00	0.00
ATOM	5018	CB	PHE	X	334	57.720	38.765	45.307	0.00	0.00
ATOM	5019	HB2	PHE	X	334	57.768	37.953	46.032	0.00	0.00
ATOM	5020	HB3	PHE	X	334	57.919	39.591	45.991	0.00	0.00
ATOM	5021	CG	PHE	X	334	56.308	39.041	44.865	0.00	0.00
ATOM	5022	CD1	PHE	X	334	55.245	38.074	44.910	0.00	0.00
ATOM	5023	HD1	PHE	X	334	55.456	37.129	45.388	0.00	0.00

ATOM	5024	CE1	PHE	X	334	54.020	38.333	44.363	0.00	0.00
ATOM	5025	HE1	PHE	X	334	53.274	37.554	44.416	0.00	0.00
ATOM	5026	CZ	PHE	X	334	53.837	39.590	43.770	0.00	0.00
ATOM	5027	HZ	PHE	X	334	52.881	39.910	43.380	0.00	0.00
ATOM	5028	CE2	PHE	X	334	54.824	40.545	43.723	0.00	0.00
ATOM	5029	HE2	PHE	X	334	54.648	41.466	43.186	0.00	0.00
ATOM	5030	CD2	PHE	X	334	56.087	40.300	44.208	0.00	0.00
ATOM	5031	HD2	PHE	X	334	56.798	41.106	44.105	0.00	0.00
ATOM	5032	C	PHE	X	334	60.163	38.880	44.628	0.00	0.00
ATOM	5033	O	PHE	X	334	60.518	40.048	44.977	0.00	0.00
ATOM	5034	N	LEU	X	335	61.026	37.868	44.667	0.00	0.00
ATOM	5035	H	LEU	X	335	60.701	36.982	44.306	0.00	0.00
ATOM	5036	CA	LEU	X	335	62.275	37.901	45.335	0.00	0.00
ATOM	5037	HA	LEU	X	335	62.059	38.184	46.365	0.00	0.00
ATOM	5038	CB	LEU	X	335	63.007	36.570	45.442	0.00	0.00
ATOM	5039	HB2	LEU	X	335	63.178	36.282	44.404	0.00	0.00
ATOM	5040	HB3	LEU	X	335	63.952	36.764	45.948	0.00	0.00
ATOM	5041	CG	LEU	X	335	62.324	35.467	46.345	0.00	0.00
ATOM	5042	HG	LEU	X	335	61.407	35.323	45.775	0.00	0.00
ATOM	5043	CD1	LEU	X	335	63.208	34.178	46.303	0.00	0.00
ATOM	5044	HD11	LEU	X	335	62.727	33.389	46.881	0.00	0.00
ATOM	5045	HD12	LEU	X	335	64.111	34.383	46.877	0.00	0.00
ATOM	5046	HD13	LEU	X	335	63.306	33.907	45.251	0.00	0.00
ATOM	5047	CD2	LEU	X	335	61.971	35.909	47.787	0.00	0.00
ATOM	5048	HD21	LEU	X	335	61.596	35.072	48.377	0.00	0.00
ATOM	5049	HD22	LEU	X	335	62.901	36.353	48.143	0.00	0.00
ATOM	5050	HD23	LEU	X	335	61.109	36.571	47.717	0.00	0.00
ATOM	5051	C	LEU	X	335	63.235	39.064	44.840	0.00	0.00
ATOM	5052	O	LEU	X	335	63.913	39.753	45.594	0.00	0.00
ATOM	5053	N	VAL	X	336	63.174	39.508	43.600	0.00	0.00
ATOM	5054	H	VAL	X	336	62.473	39.048	43.036	0.00	0.00
ATOM	5055	CA	VAL	X	336	64.008	40.576	43.037	0.00	0.00
ATOM	5056	HA	VAL	X	336	65.020	40.394	43.400	0.00	0.00
ATOM	5057	CB	VAL	X	336	64.134	40.560	41.466	0.00	0.00
ATOM	5058	HB	VAL	X	336	64.711	41.432	41.158	0.00	0.00
ATOM	5059	CG1	VAL	X	336	64.959	39.414	40.916	0.00	0.00
ATOM	5060	HG11	VAL	X	336	65.874	39.180	41.460	0.00	0.00
ATOM	5061	HG12	VAL	X	336	64.388	38.488	40.987	0.00	0.00
ATOM	5062	HG13	VAL	X	336	65.066	39.464	39.833	0.00	0.00
ATOM	5063	CG2	VAL	X	336	62.693	40.523	40.788	0.00	0.00
ATOM	5064	HG21	VAL	X	336	62.205	39.560	40.935	0.00	0.00
ATOM	5065	HG22	VAL	X	336	62.821	40.689	39.719	0.00	0.00
ATOM	5066	HG23	VAL	X	336	62.176	41.340	41.292	0.00	0.00
ATOM	5067	C	VAL	X	336	63.599	41.948	43.506	0.00	0.00
ATOM	5068	O	VAL	X	336	64.413	42.931	43.403	0.00	0.00
ATOM	5069	N	TYR	X	337	62.397	42.041	44.019	0.00	0.00
ATOM	5070	H	TYR	X	337	61.851	41.236	44.292	0.00	0.00
ATOM	5071	CA	TYR	X	337	61.880	43.291	44.537	0.00	0.00
ATOM	5072	HA	TYR	X	337	62.237	44.055	43.846	0.00	0.00
ATOM	5073	CB	TYR	X	337	60.309	43.376	44.451	0.00	0.00
ATOM	5074	HB2	TYR	X	337	59.799	42.506	44.865	0.00	0.00
ATOM	5075	HB3	TYR	X	337	60.027	44.189	45.120	0.00	0.00
ATOM	5076	CG	TYR	X	337	59.787	43.481	42.963	0.00	0.00
ATOM	5077	CD1	TYR	X	337	59.741	44.722	42.303	0.00	0.00
ATOM	5078	HD1	TYR	X	337	59.877	45.686	42.770	0.00	0.00
ATOM	5079	CE1	TYR	X	337	59.426	44.884	40.911	0.00	0.00
ATOM	5080	HE1	TYR	X	337	59.576	45.810	40.376	0.00	0.00
ATOM	5081	CZ	TYR	X	337	58.896	43.708	40.348	0.00	0.00
ATOM	5082	OH	TYR	X	337	58.480	43.938	39.044	0.00	0.00
ATOM	5083	HH	TYR	X	337	58.808	44.744	38.639	0.00	0.00
ATOM	5084	CE2	TYR	X	337	58.993	42.434	40.997	0.00	0.00
ATOM	5085	HE2	TYR	X	337	58.692	41.535	40.479	0.00	0.00
ATOM	5086	CD2	TYR	X	337	59.464	42.289	42.304	0.00	0.00
ATOM	5087	HD2	TYR	X	337	59.538	41.280	42.682	0.00	0.00
ATOM	5088	C	TYR	X	337	62.442	43.680	45.950	0.00	0.00
ATOM	5089	O	TYR	X	337	62.038	44.713	46.503	0.00	0.00
ATOM	5090	N	GLY	X	338	63.430	42.980	46.375	0.00	0.00

ATOM	5091	H	GLY	X	338	63.468	42.091	45.897	0.00	0.00
ATOM	5092	CA	GLY	X	338	64.404	43.433	47.435	0.00	0.00
ATOM	5093	HA2	GLY	X	338	65.243	43.891	46.911	0.00	0.00
ATOM	5094	HA3	GLY	X	338	63.796	44.160	47.974	0.00	0.00
ATOM	5095	C	GLY	X	338	64.972	42.448	48.426	0.00	0.00
ATOM	5096	O	GLY	X	338	65.377	42.839	49.539	0.00	0.00
ATOM	5097	N	ALA	X	339	65.024	41.145	48.099	0.00	0.00
ATOM	5098	H	ALA	X	339	64.770	40.876	47.159	0.00	0.00
ATOM	5099	CA	ALA	X	339	65.753	40.144	48.888	0.00	0.00
ATOM	5100	HA	ALA	X	339	65.758	40.460	49.931	0.00	0.00
ATOM	5101	CB	ALA	X	339	64.969	38.798	48.886	0.00	0.00
ATOM	5102	HB1	ALA	X	339	63.918	39.007	49.085	0.00	0.00
ATOM	5103	HB2	ALA	X	339	65.374	38.114	49.631	0.00	0.00
ATOM	5104	HB3	ALA	X	339	65.057	38.358	47.893	0.00	0.00
ATOM	5105	C	ALA	X	339	67.252	40.003	48.460	0.00	0.00
ATOM	5106	O	ALA	X	339	67.565	40.451	47.376	0.00	0.00
ATOM	5107	N	PRO	X	340	68.198	39.523	49.292	0.00	0.00
ATOM	5108	CD	PRO	X	340	67.955	38.790	50.522	0.00	0.00
ATOM	5109	HD2	PRO	X	340	67.245	38.004	50.262	0.00	0.00
ATOM	5110	HD3	PRO	X	340	67.548	39.433	51.302	0.00	0.00
ATOM	5111	CG	PRO	X	340	69.225	38.354	51.027	0.00	0.00
ATOM	5112	HG2	PRO	X	340	69.533	37.481	50.453	0.00	0.00
ATOM	5113	HG3	PRO	X	340	69.160	38.168	52.100	0.00	0.00
ATOM	5114	CB	PRO	X	340	70.226	39.441	50.593	0.00	0.00
ATOM	5115	HB2	PRO	X	340	71.277	39.156	50.553	0.00	0.00
ATOM	5116	HB3	PRO	X	340	70.149	40.328	51.222	0.00	0.00
ATOM	5117	CA	PRO	X	340	69.629	39.796	49.173	0.00	0.00
ATOM	5118	HA	PRO	X	340	69.750	40.874	49.062	0.00	0.00
ATOM	5119	C	PRO	X	340	70.189	39.035	48.049	0.00	0.00
ATOM	5120	O	PRO	X	340	70.247	37.780	48.029	0.00	0.00
ATOM	5121	N	GLY	X	341	70.742	39.872	47.140	0.00	0.00
ATOM	5122	H	GLY	X	341	70.605	40.867	47.249	0.00	0.00
ATOM	5123	CA	GLY	X	341	71.323	39.457	45.902	0.00	0.00
ATOM	5124	HA2	GLY	X	341	72.083	40.184	45.617	0.00	0.00
ATOM	5125	HA3	GLY	X	341	71.955	38.660	46.293	0.00	0.00
ATOM	5126	C	GLY	X	341	70.504	38.879	44.706	0.00	0.00
ATOM	5127	O	GLY	X	341	71.130	38.454	43.718	0.00	0.00
ATOM	5128	N	PHE	X	342	69.188	38.662	44.844	0.00	0.00
ATOM	5129	H	PHE	X	342	68.753	38.766	45.750	0.00	0.00
ATOM	5130	CA	PHE	X	342	68.363	38.445	43.710	0.00	0.00
ATOM	5131	HA	PHE	X	342	68.514	37.543	43.116	0.00	0.00
ATOM	5132	CB	PHE	X	342	66.963	38.222	44.246	0.00	0.00
ATOM	5133	HB2	PHE	X	342	66.655	39.122	44.778	0.00	0.00
ATOM	5134	HB3	PHE	X	342	66.261	38.040	43.432	0.00	0.00
ATOM	5135	CG	PHE	X	342	66.832	36.977	45.062	0.00	0.00
ATOM	5136	CD1	PHE	X	342	66.289	35.780	44.544	0.00	0.00
ATOM	5137	HD1	PHE	X	342	65.882	35.667	43.550	0.00	0.00
ATOM	5138	CE1	PHE	X	342	66.289	34.547	45.331	0.00	0.00
ATOM	5139	HE1	PHE	X	342	65.840	33.665	44.899	0.00	0.00
ATOM	5140	CZ	PHE	X	342	66.707	34.684	46.734	0.00	0.00
ATOM	5141	HZ	PHE	X	342	66.655	33.761	47.292	0.00	0.00
ATOM	5142	CE2	PHE	X	342	67.292	35.896	47.257	0.00	0.00
ATOM	5143	HE2	PHE	X	342	67.747	35.981	48.233	0.00	0.00
ATOM	5144	CD2	PHE	X	342	67.301	37.058	46.457	0.00	0.00
ATOM	5145	HD2	PHE	X	342	67.717	37.960	46.881	0.00	0.00
ATOM	5146	C	PHE	X	342	68.509	39.587	42.745	0.00	0.00
ATOM	5147	O	PHE	X	342	68.601	40.738	43.203	0.00	0.00
ATOM	5148	N	SER	X	343	68.424	39.346	41.456	0.00	0.00
ATOM	5149	H	SER	X	343	68.231	38.413	41.119	0.00	0.00
ATOM	5150	CA	SER	X	343	68.501	40.318	40.398	0.00	0.00
ATOM	5151	HA	SER	X	343	68.064	41.302	40.571	0.00	0.00
ATOM	5152	CB	SER	X	343	69.978	40.678	40.126	0.00	0.00
ATOM	5153	HB2	SER	X	343	69.981	41.656	39.644	0.00	0.00
ATOM	5154	HB3	SER	X	343	70.564	40.769	41.040	0.00	0.00
ATOM	5155	OG	SER	X	343	70.566	39.678	39.372	0.00	0.00
ATOM	5156	HG	SER	X	343	71.401	40.048	39.077	0.00	0.00
ATOM	5157	C	SER	X	343	67.866	39.694	39.130	0.00	0.00

ATOM	5158	O	SER	X	343	67.445	38.556	39.149	0.00	0.00
ATOM	5159	N	LYS	X	344	67.956	40.458	38.030	0.00	0.00
ATOM	5160	H	LYS	X	344	68.534	41.282	37.946	0.00	0.00
ATOM	5161	CA	LYS	X	344	67.392	39.991	36.747	0.00	0.00
ATOM	5162	HA	LYS	X	344	66.419	39.522	36.895	0.00	0.00
ATOM	5163	CB	LYS	X	344	67.128	41.210	35.853	0.00	0.00
ATOM	5164	HB2	LYS	X	344	66.666	40.836	34.940	0.00	0.00
ATOM	5165	HB3	LYS	X	344	66.487	41.944	36.342	0.00	0.00
ATOM	5166	CG	LYS	X	344	68.396	42.011	35.480	0.00	0.00
ATOM	5167	HG2	LYS	X	344	68.688	42.668	36.299	0.00	0.00
ATOM	5168	HG3	LYS	X	344	69.320	41.442	35.389	0.00	0.00
ATOM	5169	CD	LYS	X	344	68.191	42.799	34.176	0.00	0.00
ATOM	5170	HD2	LYS	X	344	68.333	42.093	33.357	0.00	0.00
ATOM	5171	HD3	LYS	X	344	67.181	43.209	34.179	0.00	0.00
ATOM	5172	CE	LYS	X	344	69.426	43.808	34.127	0.00	0.00
ATOM	5173	HE2	LYS	X	344	69.260	44.534	34.923	0.00	0.00
ATOM	5174	HE3	LYS	X	344	70.355	43.279	34.338	0.00	0.00
ATOM	5175	NZ	LYS	X	344	69.490	44.511	32.862	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	70.253	45.172	32.868	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	69.701	43.853	32.125	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	68.576	44.873	32.629	0.00	0.00
ATOM	5179	C	LYS	X	344	68.197	38.927	36.015	0.00	0.00
ATOM	5180	O	LYS	X	344	67.988	38.499	34.869	0.00	0.00
ATOM	5181	N	ASP	X	345	69.302	38.451	36.634	0.00	0.00
ATOM	5182	H	ASP	X	345	69.490	38.843	37.546	0.00	0.00
ATOM	5183	CA	ASP	X	345	70.258	37.514	36.087	0.00	0.00
ATOM	5184	HA	ASP	X	345	69.706	36.808	35.466	0.00	0.00
ATOM	5185	CB	ASP	X	345	71.324	38.330	35.292	0.00	0.00
ATOM	5186	HB2	ASP	X	345	72.064	37.629	34.907	0.00	0.00
ATOM	5187	HB3	ASP	X	345	70.817	38.770	34.433	0.00	0.00
ATOM	5188	CG	ASP	X	345	72.032	39.309	36.264	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.486	40.373	36.597	0.00	0.00
ATOM	5190	OD2	ASP	X	345	73.150	38.971	36.778	0.00	0.00
ATOM	5191	C	ASP	X	345	70.844	36.533	37.186	0.00	0.00
ATOM	5192	O	ASP	X	345	70.978	35.377	36.925	0.00	0.00
ATOM	5193	N	ASN	X	346	71.241	37.037	38.349	0.00	0.00
ATOM	5194	H	ASN	X	346	70.955	37.964	38.630	0.00	0.00
ATOM	5195	CA	ASN	X	346	72.021	36.267	39.343	0.00	0.00
ATOM	5196	HA	ASN	X	346	72.978	35.999	38.894	0.00	0.00
ATOM	5197	CB	ASN	X	346	72.509	37.189	40.466	0.00	0.00
ATOM	5198	HB2	ASN	X	346	73.222	37.862	39.989	0.00	0.00
ATOM	5199	HB3	ASN	X	346	71.655	37.776	40.802	0.00	0.00
ATOM	5200	CG	ASN	X	346	73.207	36.426	41.560	0.00	0.00
ATOM	5201	OD1	ASN	X	346	74.334	36.039	41.345	0.00	0.00
ATOM	5202	ND2	ASN	X	346	72.605	36.207	42.710	0.00	0.00
ATOM	5203	HD21	ASN	X	346	73.103	35.942	43.547	0.00	0.00
ATOM	5204	HD22	ASN	X	346	71.781	36.772	42.858	0.00	0.00
ATOM	5205	C	ASN	X	346	71.354	34.998	39.785	0.00	0.00
ATOM	5206	O	ASN	X	346	70.213	35.053	40.255	0.00	0.00
ATOM	5207	N	GLU	X	347	72.077	33.873	39.807	0.00	0.00
ATOM	5208	H	GLU	X	347	73.021	33.894	39.448	0.00	0.00
ATOM	5209	CA	GLU	X	347	71.496	32.579	40.292	0.00	0.00
ATOM	5210	HA	GLU	X	347	70.636	32.309	39.679	0.00	0.00
ATOM	5211	CB	GLU	X	347	72.543	31.472	40.011	0.00	0.00
ATOM	5212	HB2	GLU	X	347	73.095	31.819	39.137	0.00	0.00
ATOM	5213	HB3	GLU	X	347	73.339	31.494	40.755	0.00	0.00
ATOM	5214	CG	GLU	X	347	71.830	30.184	39.697	0.00	0.00
ATOM	5215	HG2	GLU	X	347	71.476	29.739	40.626	0.00	0.00
ATOM	5216	HG3	GLU	X	347	71.051	30.310	38.944	0.00	0.00
ATOM	5217	CD	GLU	X	347	72.804	29.178	39.092	0.00	0.00
ATOM	5218	OE1	GLU	X	347	73.096	29.416	37.877	0.00	0.00
ATOM	5219	OE2	GLU	X	347	73.135	28.160	39.699	0.00	0.00
ATOM	5220	C	GLU	X	347	70.974	32.513	41.745	0.00	0.00
ATOM	5221	O	GLU	X	347	70.011	31.807	42.035	0.00	0.00
ATOM	5222	N	SER	X	348	71.310	33.408	42.696	0.00	0.00
ATOM	5223	H	SER	X	348	72.180	33.890	42.523	0.00	0.00
ATOM	5224	CA	SER	X	348	70.594	33.657	43.974	0.00	0.00

ATOM	5225	HA	SER	X	348	71.150	34.452	44.471	0.00	0.00
ATOM	5226	CB	SER	X	348	69.171	34.194	43.756	0.00	0.00
ATOM	5227	HB2	SER	X	348	68.581	33.377	43.342	0.00	0.00
ATOM	5228	HB3	SER	X	348	68.795	34.593	44.698	0.00	0.00
ATOM	5229	OG	SER	X	348	69.069	35.179	42.703	0.00	0.00
ATOM	5230	HG	SER	X	348	69.389	34.798	41.882	0.00	0.00
ATOM	5231	C	SER	X	348	70.656	32.467	44.941	0.00	0.00
ATOM	5232	O	SER	X	348	69.621	32.003	45.455	0.00	0.00
ATOM	5233	N	LEU	X	349	71.867	31.887	45.048	0.00	0.00
ATOM	5234	H	LEU	X	349	72.675	32.311	44.615	0.00	0.00
ATOM	5235	CA	LEU	X	349	72.202	30.710	45.919	0.00	0.00
ATOM	5236	HA	LEU	X	349	71.380	30.005	46.039	0.00	0.00
ATOM	5237	CB	LEU	X	349	73.433	29.976	45.319	0.00	0.00
ATOM	5238	HB2	LEU	X	349	74.174	30.737	45.075	0.00	0.00
ATOM	5239	HB3	LEU	X	349	73.765	29.326	46.129	0.00	0.00
ATOM	5240	CG	LEU	X	349	72.946	29.276	43.984	0.00	0.00
ATOM	5241	HG	LEU	X	349	72.307	29.926	43.388	0.00	0.00
ATOM	5242	CD1	LEU	X	349	74.086	29.027	43.022	0.00	0.00
ATOM	5243	HD11	LEU	X	349	74.579	29.937	42.680	0.00	0.00
ATOM	5244	HD12	LEU	X	349	73.714	28.590	42.096	0.00	0.00
ATOM	5245	HD13	LEU	X	349	74.730	28.268	43.466	0.00	0.00
ATOM	5246	CD2	LEU	X	349	72.269	27.978	44.356	0.00	0.00
ATOM	5247	HD21	LEU	X	349	72.912	27.304	44.922	0.00	0.00
ATOM	5248	HD22	LEU	X	349	71.532	28.147	45.141	0.00	0.00
ATOM	5249	HD23	LEU	X	349	71.811	27.397	43.556	0.00	0.00
ATOM	5250	C	LEU	X	349	72.489	31.248	47.348	0.00	0.00
ATOM	5251	O	LEU	X	349	73.605	31.562	47.809	0.00	0.00
ATOM	5252	N	ILE	X	350	71.443	31.470	48.128	0.00	0.00
ATOM	5253	H	ILE	X	350	70.544	31.328	47.690	0.00	0.00
ATOM	5254	CA	ILE	X	350	71.347	31.979	49.546	0.00	0.00
ATOM	5255	HA	ILE	X	350	71.989	32.848	49.696	0.00	0.00
ATOM	5256	CB	ILE	X	350	69.875	32.434	49.912	0.00	0.00
ATOM	5257	HB	ILE	X	350	69.939	33.040	50.816	0.00	0.00
ATOM	5258	CG2	ILE	X	350	69.519	33.369	48.815	0.00	0.00
ATOM	5259	HG21	ILE	X	350	68.673	33.957	49.171	0.00	0.00
ATOM	5260	HG22	ILE	X	350	69.243	32.934	47.854	0.00	0.00
ATOM	5261	HG23	ILE	X	350	70.273	34.141	48.658	0.00	0.00
ATOM	5262	CG1	ILE	X	350	68.793	31.306	49.988	0.00	0.00
ATOM	5263	HG12	ILE	X	350	68.704	30.951	48.961	0.00	0.00
ATOM	5264	HG13	ILE	X	350	69.006	30.363	50.492	0.00	0.00
ATOM	5265	CD1	ILE	X	350	67.436	31.790	50.398	0.00	0.00
ATOM	5266	HD11	ILE	X	350	66.916	32.246	49.555	0.00	0.00
ATOM	5267	HD12	ILE	X	350	67.595	32.402	51.286	0.00	0.00
ATOM	5268	HD13	ILE	X	350	66.888	31.005	50.919	0.00	0.00
ATOM	5269	C	ILE	X	350	71.918	30.984	50.540	0.00	0.00
ATOM	5270	O	ILE	X	350	71.524	29.832	50.648	0.00	0.00
ATOM	5271	N	SER	X	351	73.003	31.401	51.258	0.00	0.00
ATOM	5272	H	SER	X	351	73.302	32.359	51.141	0.00	0.00
ATOM	5273	CA	SER	X	351	73.356	30.791	52.528	0.00	0.00
ATOM	5274	HA	SER	X	351	73.550	29.733	52.352	0.00	0.00
ATOM	5275	CB	SER	X	351	74.816	31.143	52.887	0.00	0.00
ATOM	5276	HB2	SER	X	351	75.053	30.587	53.794	0.00	0.00
ATOM	5277	HB3	SER	X	351	75.563	30.805	52.168	0.00	0.00
ATOM	5278	OG	SER	X	351	75.054	32.537	53.072	0.00	0.00
ATOM	5279	HG	SER	X	351	75.045	32.962	52.212	0.00	0.00
ATOM	5280	C	SER	X	351	72.340	30.997	53.680	0.00	0.00
ATOM	5281	O	SER	X	351	71.583	31.998	53.644	0.00	0.00
ATOM	5282	N	ARG	X	352	72.468	30.305	54.828	0.00	0.00
ATOM	5283	H	ARG	X	352	73.268	29.690	54.785	0.00	0.00
ATOM	5284	CA	ARG	X	352	71.639	30.437	56.026	0.00	0.00
ATOM	5285	HA	ARG	X	352	70.605	30.288	55.715	0.00	0.00
ATOM	5286	CB	ARG	X	352	72.029	29.554	57.237	0.00	0.00
ATOM	5287	HB2	ARG	X	352	73.118	29.560	57.289	0.00	0.00
ATOM	5288	HB3	ARG	X	352	71.565	29.997	58.118	0.00	0.00
ATOM	5289	CG	ARG	X	352	71.504	28.146	56.830	0.00	0.00
ATOM	5290	HG2	ARG	X	352	70.490	28.184	56.432	0.00	0.00
ATOM	5291	HG3	ARG	X	352	72.066	27.625	56.056	0.00	0.00

ATOM	5292	CD	ARG	X	352	71.622	27.251	58.039	0.00	0.00
ATOM	5293	HD2	ARG	X	352	71.704	26.215	57.709	0.00	0.00
ATOM	5294	HD3	ARG	X	352	72.622	27.384	58.452	0.00	0.00
ATOM	5295	NE	ARG	X	352	70.584	27.482	59.069	0.00	0.00
ATOM	5296	HE	ARG	X	352	70.900	28.092	59.809	0.00	0.00
ATOM	5297	CZ	ARG	X	352	69.424	26.755	59.273	0.00	0.00
ATOM	5298	NH1	ARG	X	352	69.078	25.887	58.362	0.00	0.00
ATOM	5299	HH11	ARG	X	352	69.634	25.639	57.556	0.00	0.00
ATOM	5300	HH12	ARG	X	352	68.232	25.369	58.551	0.00	0.00
ATOM	5301	NH2	ARG	X	352	68.568	27.054	60.213	0.00	0.00
ATOM	5302	HH21	ARG	X	352	68.780	27.723	60.939	0.00	0.00
ATOM	5303	HH22	ARG	X	352	67.695	26.549	60.273	0.00	0.00
ATOM	5304	C	ARG	X	352	71.564	31.841	56.557	0.00	0.00
ATOM	5305	O	ARG	X	352	70.490	32.368	56.947	0.00	0.00
ATOM	5306	N	ALA	X	353	72.621	32.610	56.509	0.00	0.00
ATOM	5307	H	ALA	X	353	73.513	32.196	56.281	0.00	0.00
ATOM	5308	CA	ALA	X	353	72.541	34.016	56.854	0.00	0.00
ATOM	5309	HA	ALA	X	353	72.092	34.146	57.839	0.00	0.00
ATOM	5310	CB	ALA	X	353	73.951	34.636	57.009	0.00	0.00
ATOM	5311	HB1	ALA	X	353	73.902	35.724	57.009	0.00	0.00
ATOM	5312	HB2	ALA	X	353	74.558	34.360	56.147	0.00	0.00
ATOM	5313	HB3	ALA	X	353	74.327	34.386	58.001	0.00	0.00
ATOM	5314	C	ALA	X	353	71.673	34.854	55.947	0.00	0.00
ATOM	5315	O	ALA	X	353	70.926	35.723	56.417	0.00	0.00
ATOM	5316	N	GLU	X	354	71.785	34.622	54.651	0.00	0.00
ATOM	5317	H	GLU	X	354	72.041	33.682	54.386	0.00	0.00
ATOM	5318	CA	GLU	X	354	71.087	35.392	53.555	0.00	0.00
ATOM	5319	HA	GLU	X	354	71.134	36.446	53.828	0.00	0.00
ATOM	5320	CB	GLU	X	354	71.751	35.164	52.161	0.00	0.00
ATOM	5321	HB2	GLU	X	354	71.584	34.096	52.026	0.00	0.00
ATOM	5322	HB3	GLU	X	354	71.143	35.740	51.463	0.00	0.00
ATOM	5323	CG	GLU	X	354	73.233	35.526	51.951	0.00	0.00
ATOM	5324	HG2	GLU	X	354	73.300	36.609	51.840	0.00	0.00
ATOM	5325	HG3	GLU	X	354	73.853	35.215	52.791	0.00	0.00
ATOM	5326	CD	GLU	X	354	73.840	34.959	50.688	0.00	0.00
ATOM	5327	OE1	GLU	X	354	73.721	35.628	49.593	0.00	0.00
ATOM	5328	OE2	GLU	X	354	74.342	33.851	50.750	0.00	0.00
ATOM	5329	C	GLU	X	354	69.541	35.020	53.602	0.00	0.00
ATOM	5330	O	GLU	X	354	68.620	35.817	53.441	0.00	0.00
ATOM	5331	N	PHE	X	355	69.292	33.753	54.020	0.00	0.00
ATOM	5332	H	PHE	X	355	70.110	33.163	53.972	0.00	0.00
ATOM	5333	CA	PHE	X	355	67.909	33.268	54.239	0.00	0.00
ATOM	5334	HA	PHE	X	355	67.294	33.422	53.352	0.00	0.00
ATOM	5335	CB	PHE	X	355	67.885	31.751	54.354	0.00	0.00
ATOM	5336	HB2	PHE	X	355	68.116	31.409	53.345	0.00	0.00
ATOM	5337	HB3	PHE	X	355	68.696	31.443	55.014	0.00	0.00
ATOM	5338	CG	PHE	X	355	66.593	31.117	54.890	0.00	0.00
ATOM	5339	CD1	PHE	X	355	65.441	31.516	54.306	0.00	0.00
ATOM	5340	HD1	PHE	X	355	65.545	32.197	53.474	0.00	0.00
ATOM	5341	CE1	PHE	X	355	64.207	31.145	54.697	0.00	0.00
ATOM	5342	HE1	PHE	X	355	63.357	31.596	54.207	0.00	0.00
ATOM	5343	CZ	PHE	X	355	64.123	30.146	55.769	0.00	0.00
ATOM	5344	HZ	PHE	X	355	63.120	29.805	55.982	0.00	0.00
ATOM	5345	CE2	PHE	X	355	65.301	29.663	56.349	0.00	0.00
ATOM	5346	HE2	PHE	X	355	65.279	28.931	57.142	0.00	0.00
ATOM	5347	CD2	PHE	X	355	66.551	30.158	55.913	0.00	0.00
ATOM	5348	HD2	PHE	X	355	67.429	29.872	56.472	0.00	0.00
ATOM	5349	C	PHE	X	355	67.242	33.912	55.508	0.00	0.00
ATOM	5350	O	PHE	X	355	66.120	34.401	55.425	0.00	0.00
ATOM	5351	N	LEU	X	356	67.981	34.054	56.611	0.00	0.00
ATOM	5352	H	LEU	X	356	68.787	33.454	56.717	0.00	0.00
ATOM	5353	CA	LEU	X	356	67.687	34.900	57.737	0.00	0.00
ATOM	5354	HA	LEU	X	356	66.852	34.402	58.229	0.00	0.00
ATOM	5355	CB	LEU	X	356	68.808	34.897	58.761	0.00	0.00
ATOM	5356	HB2	LEU	X	356	69.346	33.949	58.765	0.00	0.00
ATOM	5357	HB3	LEU	X	356	69.481	35.682	58.416	0.00	0.00
ATOM	5358	CG	LEU	X	356	68.451	35.270	60.188	0.00	0.00

ATOM	5359	HG	LEU	X	356	67.919	36.218	60.108	0.00	0.00
ATOM	5360	CD1	LEU	X	356	67.470	34.257	60.922	0.00	0.00
ATOM	5361	HD11	LEU	X	356	67.906	33.261	61.008	0.00	0.00
ATOM	5362	HD12	LEU	X	356	66.513	34.281	60.401	0.00	0.00
ATOM	5363	HD13	LEU	X	356	67.283	34.759	61.871	0.00	0.00
ATOM	5364	CD2	LEU	X	356	69.807	35.452	60.835	0.00	0.00
ATOM	5365	HD21	LEU	X	356	70.416	36.252	60.412	0.00	0.00
ATOM	5366	HD22	LEU	X	356	69.681	35.648	61.900	0.00	0.00
ATOM	5367	HD23	LEU	X	356	70.311	34.502	60.657	0.00	0.00
ATOM	5368	C	LEU	X	356	67.115	36.296	57.378	0.00	0.00
ATOM	5369	O	LEU	X	356	66.164	36.788	57.977	0.00	0.00
ATOM	5370	N	ALA	X	357	67.901	36.966	56.562	0.00	0.00
ATOM	5371	H	ALA	X	357	68.531	36.444	55.971	0.00	0.00
ATOM	5372	CA	ALA	X	357	67.650	38.316	56.121	0.00	0.00
ATOM	5373	HA	ALA	X	357	67.446	38.950	56.984	0.00	0.00
ATOM	5374	CB	ALA	X	357	68.961	38.722	55.459	0.00	0.00
ATOM	5375	HB1	ALA	X	357	69.255	38.096	54.618	0.00	0.00
ATOM	5376	HB2	ALA	X	357	69.824	38.713	56.124	0.00	0.00
ATOM	5377	HB3	ALA	X	357	68.823	39.697	54.991	0.00	0.00
ATOM	5378	C	ALA	X	357	66.345	38.233	55.155	0.00	0.00
ATOM	5379	O	ALA	X	357	65.486	39.073	55.274	0.00	0.00
ATOM	5380	N	GLY	X	358	66.231	37.142	54.366	0.00	0.00
ATOM	5381	H	GLY	X	358	67.072	36.617	54.171	0.00	0.00
ATOM	5382	CA	GLY	X	358	65.122	36.698	53.558	0.00	0.00
ATOM	5383	HA2	GLY	X	358	65.008	37.223	52.609	0.00	0.00
ATOM	5384	HA3	GLY	X	358	65.299	35.660	53.277	0.00	0.00
ATOM	5385	C	GLY	X	358	63.917	36.766	54.407	0.00	0.00
ATOM	5386	O	GLY	X	358	63.064	37.613	54.051	0.00	0.00
ATOM	5387	N	VAL	X	359	63.792	35.884	55.399	0.00	0.00
ATOM	5388	H	VAL	X	359	64.581	35.300	55.637	0.00	0.00
ATOM	5389	CA	VAL	X	359	62.578	35.930	56.226	0.00	0.00
ATOM	5390	HA	VAL	X	359	61.828	35.558	55.527	0.00	0.00
ATOM	5391	CB	VAL	X	359	62.611	34.994	57.454	0.00	0.00
ATOM	5392	HB	VAL	X	359	63.603	34.982	57.906	0.00	0.00
ATOM	5393	CG1	VAL	X	359	61.681	35.413	58.553	0.00	0.00
ATOM	5394	HG11	VAL	X	359	61.820	36.394	59.006	0.00	0.00
ATOM	5395	HG12	VAL	X	359	60.622	35.433	58.295	0.00	0.00
ATOM	5396	HG13	VAL	X	359	61.827	34.715	59.378	0.00	0.00
ATOM	5397	CG2	VAL	X	359	62.318	33.497	56.986	0.00	0.00
ATOM	5398	HG21	VAL	X	359	61.339	33.390	56.518	0.00	0.00
ATOM	5399	HG22	VAL	X	359	62.182	32.890	57.881	0.00	0.00
ATOM	5400	HG23	VAL	X	359	63.168	33.075	56.449	0.00	0.00
ATOM	5401	C	VAL	X	359	62.188	37.394	56.727	0.00	0.00
ATOM	5402	O	VAL	X	359	61.065	37.790	56.460	0.00	0.00
ATOM	5403	N	ARG	X	360	63.195	38.165	57.283	0.00	0.00
ATOM	5404	H	ARG	X	360	64.065	37.682	57.453	0.00	0.00
ATOM	5405	CA	ARG	X	360	63.051	39.604	57.683	0.00	0.00
ATOM	5406	HA	ARG	X	360	62.390	39.630	58.550	0.00	0.00
ATOM	5407	CB	ARG	X	360	64.426	40.119	58.184	0.00	0.00
ATOM	5408	HB2	ARG	X	360	64.849	39.364	58.846	0.00	0.00
ATOM	5409	HB3	ARG	X	360	65.105	40.392	57.377	0.00	0.00
ATOM	5410	CG	ARG	X	360	64.255	41.445	58.917	0.00	0.00
ATOM	5411	HG2	ARG	X	360	63.727	42.242	58.394	0.00	0.00
ATOM	5412	HG3	ARG	X	360	63.585	41.261	59.756	0.00	0.00
ATOM	5413	CD	ARG	X	360	65.592	41.956	59.441	0.00	0.00
ATOM	5414	HD2	ARG	X	360	65.298	42.683	60.197	0.00	0.00
ATOM	5415	HD3	ARG	X	360	66.161	41.140	59.887	0.00	0.00
ATOM	5416	NE	ARG	X	360	66.341	42.670	58.384	0.00	0.00
ATOM	5417	HE	ARG	X	360	66.155	43.646	58.202	0.00	0.00
ATOM	5418	CZ	ARG	X	360	67.401	42.230	57.725	0.00	0.00
ATOM	5419	NH1	ARG	X	360	68.062	41.109	58.078	0.00	0.00
ATOM	5420	HH11	ARG	X	360	67.772	40.540	58.860	0.00	0.00
ATOM	5421	HH12	ARG	X	360	68.918	40.840	57.614	0.00	0.00
ATOM	5422	NH2	ARG	X	360	67.973	42.981	56.830	0.00	0.00
ATOM	5423	HH21	ARG	X	360	67.594	43.896	56.635	0.00	0.00
ATOM	5424	HH22	ARG	X	360	68.911	42.792	56.507	0.00	0.00
ATOM	5425	C	ARG	X	360	62.455	40.472	56.577	0.00	0.00

ATOM	5426	O	ARG	X	360	61.514	41.238	56.869	0.00	0.00
ATOM	5427	N	VAL	X	361	62.777	40.223	55.287	0.00	0.00
ATOM	5428	H	VAL	X	361	63.597	39.638	55.212	0.00	0.00
ATOM	5429	CA	VAL	X	361	62.140	41.006	54.137	0.00	0.00
ATOM	5430	HA	VAL	X	361	61.769	41.913	54.614	0.00	0.00
ATOM	5431	CB	VAL	X	361	63.266	41.510	53.215	0.00	0.00
ATOM	5432	HB	VAL	X	361	62.853	42.198	52.477	0.00	0.00
ATOM	5433	CG1	VAL	X	361	64.253	42.329	54.030	0.00	0.00
ATOM	5434	HG11	VAL	X	361	63.670	43.122	54.500	0.00	0.00
ATOM	5435	HG12	VAL	X	361	64.852	41.681	54.670	0.00	0.00
ATOM	5436	HG13	VAL	X	361	64.867	42.905	53.338	0.00	0.00
ATOM	5437	CG2	VAL	X	361	64.001	40.491	52.336	0.00	0.00
ATOM	5438	HG21	VAL	X	361	64.777	40.939	51.716	0.00	0.00
ATOM	5439	HG22	VAL	X	361	63.303	39.940	51.705	0.00	0.00
ATOM	5440	HG23	VAL	X	361	64.477	39.764	52.994	0.00	0.00
ATOM	5441	C	VAL	X	361	60.923	40.399	53.456	0.00	0.00
ATOM	5442	O	VAL	X	361	60.109	41.056	52.796	0.00	0.00
ATOM	5443	N	GLY	X	362	60.718	39.072	53.685	0.00	0.00
ATOM	5444	H	GLY	X	362	61.443	38.580	54.186	0.00	0.00
ATOM	5445	CA	GLY	X	362	59.506	38.260	53.292	0.00	0.00
ATOM	5446	HA2	GLY	X	362	59.127	38.864	52.467	0.00	0.00
ATOM	5447	HA3	GLY	X	362	59.622	37.232	52.950	0.00	0.00
ATOM	5448	C	GLY	X	362	58.271	38.220	54.209	0.00	0.00
ATOM	5449	O	GLY	X	362	57.182	38.328	53.763	0.00	0.00
ATOM	5450	N	VAL	X	363	58.493	38.391	55.501	0.00	0.00
ATOM	5451	H	VAL	X	363	59.430	38.339	55.873	0.00	0.00
ATOM	5452	CA	VAL	X	363	57.411	38.532	56.513	0.00	0.00
ATOM	5453	HA	VAL	X	363	56.484	38.329	55.976	0.00	0.00
ATOM	5454	CB	VAL	X	363	57.492	37.442	57.624	0.00	0.00
ATOM	5455	HB	VAL	X	363	58.383	37.668	58.210	0.00	0.00
ATOM	5456	CG1	VAL	X	363	56.266	37.607	58.490	0.00	0.00
ATOM	5457	HG11	VAL	X	363	56.307	36.875	59.297	0.00	0.00
ATOM	5458	HG12	VAL	X	363	56.391	38.546	59.028	0.00	0.00
ATOM	5459	HG13	VAL	X	363	55.317	37.445	57.980	0.00	0.00
ATOM	5460	CG2	VAL	X	363	57.628	35.969	57.072	0.00	0.00
ATOM	5461	HG21	VAL	X	363	56.710	35.659	56.572	0.00	0.00
ATOM	5462	HG22	VAL	X	363	57.734	35.361	57.971	0.00	0.00
ATOM	5463	HG23	VAL	X	363	58.585	35.856	56.564	0.00	0.00
ATOM	5464	C	VAL	X	363	57.453	39.984	57.066	0.00	0.00
ATOM	5465	O	VAL	X	363	58.470	40.376	57.700	0.00	0.00
ATOM	5466	N	PRO	X	364	56.401	40.838	56.873	0.00	0.00
ATOM	5467	CD	PRO	X	364	55.173	40.493	56.053	0.00	0.00
ATOM	5468	HD2	PRO	X	364	54.621	39.623	56.411	0.00	0.00
ATOM	5469	HD3	PRO	X	364	55.433	40.421	54.997	0.00	0.00
ATOM	5470	CG	PRO	X	364	54.299	41.666	56.378	0.00	0.00
ATOM	5471	HG2	PRO	X	364	53.674	41.500	57.256	0.00	0.00
ATOM	5472	HG3	PRO	X	364	53.746	41.972	55.490	0.00	0.00
ATOM	5473	CB	PRO	X	364	55.239	42.825	56.701	0.00	0.00
ATOM	5474	HB2	PRO	X	364	54.714	43.572	57.296	0.00	0.00
ATOM	5475	HB3	PRO	X	364	55.580	43.220	55.744	0.00	0.00
ATOM	5476	CA	PRO	X	364	56.355	42.179	57.454	0.00	0.00
ATOM	5477	HA	PRO	X	364	57.200	42.813	57.183	0.00	0.00
ATOM	5478	C	PRO	X	364	56.164	42.013	58.922	0.00	0.00
ATOM	5479	O	PRO	X	364	55.603	41.041	59.432	0.00	0.00
ATOM	5480	N	GLN	X	365	56.624	43.078	59.573	0.00	0.00
ATOM	5481	H	GLN	X	365	57.020	43.826	59.022	0.00	0.00
ATOM	5482	CA	GLN	X	365	56.725	43.400	61.006	0.00	0.00
ATOM	5483	HA	GLN	X	365	56.922	44.466	61.121	0.00	0.00
ATOM	5484	CB	GLN	X	365	55.379	43.066	61.597	0.00	0.00
ATOM	5485	HB2	GLN	X	365	54.694	43.261	60.772	0.00	0.00
ATOM	5486	HB3	GLN	X	365	55.168	42.021	61.826	0.00	0.00
ATOM	5487	CG	GLN	X	365	55.078	43.986	62.809	0.00	0.00
ATOM	5488	HG2	GLN	X	365	55.917	43.952	63.504	0.00	0.00
ATOM	5489	HG3	GLN	X	365	54.908	44.978	62.391	0.00	0.00
ATOM	5490	CD	GLN	X	365	53.813	43.621	63.633	0.00	0.00
ATOM	5491	OE1	GLN	X	365	53.062	42.660	63.353	0.00	0.00
ATOM	5492	NE2	GLN	X	365	53.428	44.344	64.678	0.00	0.00

ATOM	5493	HE21	GLN	X	365	52.568	44.042	65.113	0.00	0.00
ATOM	5494	HE22	GLN	X	365	54.198	44.894	65.031	0.00	0.00
ATOM	5495	C	GLN	X	365	57.854	42.595	61.695	0.00	0.00
ATOM	5496	O	GLN	X	365	58.370	43.030	62.734	0.00	0.00
ATOM	5497	N	VAL	X	366	58.200	41.395	61.178	0.00	0.00
ATOM	5498	H	VAL	X	366	57.735	41.151	60.316	0.00	0.00
ATOM	5499	CA	VAL	X	366	59.149	40.418	61.759	0.00	0.00
ATOM	5500	HA	VAL	X	366	58.968	40.306	62.828	0.00	0.00
ATOM	5501	CB	VAL	X	366	58.994	39.044	61.006	0.00	0.00
ATOM	5502	HB	VAL	X	366	58.614	39.270	60.009	0.00	0.00
ATOM	5503	CG1	VAL	X	366	60.227	38.193	60.779	0.00	0.00
ATOM	5504	HG11	VAL	X	366	60.636	37.974	61.765	0.00	0.00
ATOM	5505	HG12	VAL	X	366	59.908	37.245	60.347	0.00	0.00
ATOM	5506	HG13	VAL	X	366	60.910	38.649	60.062	0.00	0.00
ATOM	5507	CG2	VAL	X	366	57.957	37.976	61.473	0.00	0.00
ATOM	5508	HG21	VAL	X	366	57.819	37.172	60.750	0.00	0.00
ATOM	5509	HG22	VAL	X	366	57.016	38.453	61.749	0.00	0.00
ATOM	5510	HG23	VAL	X	366	58.315	37.527	62.400	0.00	0.00
ATOM	5511	C	VAL	X	366	60.550	40.866	61.576	0.00	0.00
ATOM	5512	O	VAL	X	366	61.048	41.227	60.476	0.00	0.00
ATOM	5513	N	SER	X	367	61.108	41.031	62.739	0.00	0.00
ATOM	5514	H	SER	X	367	60.461	40.988	63.513	0.00	0.00
ATOM	5515	CA	SER	X	367	62.483	41.366	63.108	0.00	0.00
ATOM	5516	HA	SER	X	367	62.816	42.151	62.429	0.00	0.00
ATOM	5517	CB	SER	X	367	62.503	41.854	64.527	0.00	0.00
ATOM	5518	HB2	SER	X	367	63.548	41.958	64.821	0.00	0.00
ATOM	5519	HB3	SER	X	367	61.982	42.809	64.593	0.00	0.00
ATOM	5520	OG	SER	X	367	61.846	40.959	65.333	0.00	0.00
ATOM	5521	HG	SER	X	367	60.911	41.138	65.207	0.00	0.00
ATOM	5522	C	SER	X	367	63.415	40.187	62.970	0.00	0.00
ATOM	5523	O	SER	X	367	63.047	39.135	62.533	0.00	0.00
ATOM	5524	N	ASP	X	368	64.741	40.453	63.256	0.00	0.00
ATOM	5525	H	ASP	X	368	64.980	41.417	63.441	0.00	0.00
ATOM	5526	CA	ASP	X	368	65.883	39.486	62.989	0.00	0.00
ATOM	5527	HA	ASP	X	368	65.833	39.001	62.014	0.00	0.00
ATOM	5528	CB	ASP	X	368	67.191	40.249	63.003	0.00	0.00
ATOM	5529	HB2	ASP	X	368	67.264	40.910	62.140	0.00	0.00
ATOM	5530	HB3	ASP	X	368	67.251	40.923	63.857	0.00	0.00
ATOM	5531	CG	ASP	X	368	68.469	39.440	62.995	0.00	0.00
ATOM	5532	OD1	ASP	X	368	69.182	39.464	64.028	0.00	0.00
ATOM	5533	OD2	ASP	X	368	68.767	38.813	61.944	0.00	0.00
ATOM	5534	C	ASP	X	368	65.895	38.455	64.133	0.00	0.00
ATOM	5535	O	ASP	X	368	66.341	37.327	63.921	0.00	0.00
ATOM	5536	N	LEU	X	369	65.361	38.727	65.321	0.00	0.00
ATOM	5537	H	LEU	X	369	65.031	39.666	65.496	0.00	0.00
ATOM	5538	CA	LEU	X	369	65.293	37.740	66.468	0.00	0.00
ATOM	5539	HA	LEU	X	369	66.177	37.106	66.402	0.00	0.00
ATOM	5540	CB	LEU	X	369	65.128	38.384	67.944	0.00	0.00
ATOM	5541	HB2	LEU	X	369	65.958	39.030	68.230	0.00	0.00
ATOM	5542	HB3	LEU	X	369	64.233	39.006	67.927	0.00	0.00
ATOM	5543	CG	LEU	X	369	65.013	37.376	69.092	0.00	0.00
ATOM	5544	HG	LEU	X	369	64.089	36.802	69.024	0.00	0.00
ATOM	5545	CD1	LEU	X	369	66.209	36.407	69.193	0.00	0.00
ATOM	5546	HD11	LEU	X	369	66.211	35.783	70.086	0.00	0.00
ATOM	5547	HD12	LEU	X	369	67.121	37.004	69.155	0.00	0.00
ATOM	5548	HD13	LEU	X	369	66.210	35.781	68.301	0.00	0.00
ATOM	5549	CD2	LEU	X	369	64.740	38.028	70.462	0.00	0.00
ATOM	5550	HD21	LEU	X	369	65.608	38.639	70.709	0.00	0.00
ATOM	5551	HD22	LEU	X	369	63.836	38.631	70.378	0.00	0.00
ATOM	5552	HD23	LEU	X	369	64.590	37.211	71.168	0.00	0.00
ATOM	5553	C	LEU	X	369	64.080	36.852	66.249	0.00	0.00
ATOM	5554	O	LEU	X	369	64.230	35.618	66.291	0.00	0.00
ATOM	5555	N	ALA	X	370	63.000	37.428	65.856	0.00	0.00
ATOM	5556	H	ALA	X	370	63.133	38.366	65.508	0.00	0.00
ATOM	5557	CA	ALA	X	370	61.907	36.722	65.236	0.00	0.00
ATOM	5558	HA	ALA	X	370	61.495	35.955	65.892	0.00	0.00
ATOM	5559	CB	ALA	X	370	60.776	37.704	64.869	0.00	0.00

ATOM	5560	HB1	ALA	X	370	59.861	37.243	64.496	0.00	0.00
ATOM	5561	HB2	ALA	X	370	61.213	38.489	64.252	0.00	0.00
ATOM	5562	HB3	ALA	X	370	60.478	38.159	65.814	0.00	0.00
ATOM	5563	C	ALA	X	370	62.279	35.888	63.996	0.00	0.00
ATOM	5564	O	ALA	X	370	61.830	34.773	63.914	0.00	0.00
ATOM	5565	N	ALA	X	371	62.970	36.459	63.045	0.00	0.00
ATOM	5566	H	ALA	X	371	63.091	37.456	63.148	0.00	0.00
ATOM	5567	CA	ALA	X	371	63.559	35.780	61.919	0.00	0.00
ATOM	5568	HA	ALA	X	371	62.722	35.363	61.360	0.00	0.00
ATOM	5569	CB	ALA	X	371	64.377	36.636	60.926	0.00	0.00
ATOM	5570	HB1	ALA	X	371	65.252	36.963	61.489	0.00	0.00
ATOM	5571	HB2	ALA	X	371	63.759	37.487	60.642	0.00	0.00
ATOM	5572	HB3	ALA	X	371	64.651	36.123	60.004	0.00	0.00
ATOM	5573	C	ALA	X	371	64.368	34.579	62.358	0.00	0.00
ATOM	5574	O	ALA	X	371	64.033	33.408	62.069	0.00	0.00
ATOM	5575	N	GLU	X	372	65.241	34.705	63.349	0.00	0.00
ATOM	5576	H	GLU	X	372	65.487	35.634	63.657	0.00	0.00
ATOM	5577	CA	GLU	X	372	65.940	33.547	64.014	0.00	0.00
ATOM	5578	HA	GLU	X	372	66.428	33.005	63.204	0.00	0.00
ATOM	5579	CB	GLU	X	372	67.008	33.765	65.066	0.00	0.00
ATOM	5580	HB2	GLU	X	372	66.438	34.357	65.782	0.00	0.00
ATOM	5581	HB3	GLU	X	372	67.172	32.795	65.534	0.00	0.00
ATOM	5582	CG	GLU	X	372	68.341	34.382	64.642	0.00	0.00
ATOM	5583	HG2	GLU	X	372	68.824	33.680	63.963	0.00	0.00
ATOM	5584	HG3	GLU	X	372	68.167	35.252	64.009	0.00	0.00
ATOM	5585	CD	GLU	X	372	69.204	34.627	65.824	0.00	0.00
ATOM	5586	OE1	GLU	X	372	69.456	35.796	66.181	0.00	0.00
ATOM	5587	OE2	GLU	X	372	69.663	33.720	66.453	0.00	0.00
ATOM	5588	C	GLU	X	372	64.936	32.468	64.506	0.00	0.00
ATOM	5589	O	GLU	X	372	65.189	31.265	64.314	0.00	0.00
ATOM	5590	N	ALA	X	373	63.794	32.837	65.101	0.00	0.00
ATOM	5591	H	ALA	X	373	63.619	33.821	65.241	0.00	0.00
ATOM	5592	CA	ALA	X	373	62.818	31.859	65.425	0.00	0.00
ATOM	5593	HA	ALA	X	373	63.318	31.104	66.033	0.00	0.00
ATOM	5594	CB	ALA	X	373	61.786	32.548	66.392	0.00	0.00
ATOM	5595	HB1	ALA	X	373	62.226	32.762	67.366	0.00	0.00
ATOM	5596	HB2	ALA	X	373	60.905	31.929	66.566	0.00	0.00
ATOM	5597	HB3	ALA	X	373	61.481	33.469	65.895	0.00	0.00
ATOM	5598	C	ALA	X	373	62.034	31.254	64.251	0.00	0.00
ATOM	5599	O	ALA	X	373	61.922	30.016	64.212	0.00	0.00
ATOM	5600	N	VAL	X	374	61.595	32.026	63.264	0.00	0.00
ATOM	5601	H	VAL	X	374	61.779	33.009	63.412	0.00	0.00
ATOM	5602	CA	VAL	X	374	60.939	31.494	62.037	0.00	0.00
ATOM	5603	HA	VAL	X	374	60.083	30.907	62.368	0.00	0.00
ATOM	5604	CB	VAL	X	374	60.398	32.599	61.089	0.00	0.00
ATOM	5605	HB	VAL	X	374	61.114	33.410	60.952	0.00	0.00
ATOM	5606	CG1	VAL	X	374	59.925	32.101	59.704	0.00	0.00
ATOM	5607	HG11	VAL	X	374	60.849	31.850	59.184	0.00	0.00
ATOM	5608	HG12	VAL	X	374	59.217	31.274	59.661	0.00	0.00
ATOM	5609	HG13	VAL	X	374	59.697	32.950	59.059	0.00	0.00
ATOM	5610	CG2	VAL	X	374	59.256	33.357	61.797	0.00	0.00
ATOM	5611	HG21	VAL	X	374	58.792	34.082	61.129	0.00	0.00
ATOM	5612	HG22	VAL	X	374	59.681	33.949	62.608	0.00	0.00
ATOM	5613	HG23	VAL	X	374	58.498	32.682	62.195	0.00	0.00
ATOM	5614	C	VAL	X	374	61.790	30.484	61.260	0.00	0.00
ATOM	5615	O	VAL	X	374	61.246	29.502	60.726	0.00	0.00
ATOM	5616	N	VAL	X	375	63.136	30.677	61.168	0.00	0.00
ATOM	5617	H	VAL	X	375	63.426	31.580	61.514	0.00	0.00
ATOM	5618	CA	VAL	X	375	64.049	29.965	60.340	0.00	0.00
ATOM	5619	HA	VAL	X	375	63.576	29.724	59.389	0.00	0.00
ATOM	5620	CB	VAL	X	375	65.345	30.745	60.157	0.00	0.00
ATOM	5621	HB	VAL	X	375	65.563	31.207	61.120	0.00	0.00
ATOM	5622	CG1	VAL	X	375	66.638	29.977	59.680	0.00	0.00
ATOM	5623	HG11	VAL	X	375	66.797	29.343	60.552	0.00	0.00
ATOM	5624	HG12	VAL	X	375	66.435	29.272	58.875	0.00	0.00
ATOM	5625	HG13	VAL	X	375	67.512	30.606	59.507	0.00	0.00
ATOM	5626	CG2	VAL	X	375	65.126	31.879	59.203	0.00	0.00

ATOM	5627	HG21	VAL	X	375	66.072	32.387	59.017	0.00	0.00
ATOM	5628	HG22	VAL	X	375	64.424	32.611	59.601	0.00	0.00
ATOM	5629	HG23	VAL	X	375	64.683	31.603	58.246	0.00	0.00
ATOM	5630	C	VAL	X	375	64.270	28.541	60.906	0.00	0.00
ATOM	5631	O	VAL	X	375	64.668	27.733	60.135	0.00	0.00
ATOM	5632	N	LEU	X	376	64.008	28.228	62.194	0.00	0.00
ATOM	5633	H	LEU	X	376	63.528	28.862	62.817	0.00	0.00
ATOM	5634	CA	LEU	X	376	64.286	26.935	62.765	0.00	0.00
ATOM	5635	HA	LEU	X	376	65.155	26.423	62.352	0.00	0.00
ATOM	5636	CB	LEU	X	376	64.594	27.160	64.208	0.00	0.00
ATOM	5637	HB2	LEU	X	376	65.397	27.883	64.066	0.00	0.00
ATOM	5638	HB3	LEU	X	376	63.781	27.654	64.739	0.00	0.00
ATOM	5639	CG	LEU	X	376	65.051	25.934	65.014	0.00	0.00
ATOM	5640	HG	LEU	X	376	65.199	26.366	66.004	0.00	0.00
ATOM	5641	CD1	LEU	X	376	64.175	24.638	65.121	0.00	0.00
ATOM	5642	HD11	LEU	X	376	64.692	24.017	65.852	0.00	0.00
ATOM	5643	HD12	LEU	X	376	64.236	24.144	64.151	0.00	0.00
ATOM	5644	HD13	LEU	X	376	63.187	24.675	65.580	0.00	0.00
ATOM	5645	CD2	LEU	X	376	66.497	25.492	64.556	0.00	0.00
ATOM	5646	HD21	LEU	X	376	66.551	25.168	63.516	0.00	0.00
ATOM	5647	HD22	LEU	X	376	67.124	26.373	64.689	0.00	0.00
ATOM	5648	HD23	LEU	X	376	66.730	24.695	65.262	0.00	0.00
ATOM	5649	C	LEU	X	376	63.116	26.084	62.423	0.00	0.00
ATOM	5650	O	LEU	X	376	63.415	25.006	61.928	0.00	0.00
ATOM	5651	N	HIE	X	377	61.843	26.534	62.558	0.00	0.00
ATOM	5652	H	HIE	X	377	61.692	27.305	63.192	0.00	0.00
ATOM	5653	CA	HIE	X	377	60.694	25.959	61.865	0.00	0.00
ATOM	5654	HA	HIE	X	377	60.346	24.989	62.221	0.00	0.00
ATOM	5655	CB	HIE	X	377	59.403	26.903	62.007	0.00	0.00
ATOM	5656	HB2	HIE	X	377	59.306	27.248	63.037	0.00	0.00
ATOM	5657	HB3	HIE	X	377	59.561	27.802	61.412	0.00	0.00
ATOM	5658	CG	HIE	X	377	58.197	26.260	61.522	0.00	0.00
ATOM	5659	ND1	HIE	X	377	57.264	25.590	62.378	0.00	0.00
ATOM	5660	CE1	HIE	X	377	56.197	25.335	61.589	0.00	0.00
ATOM	5661	HE1	HIE	X	377	55.246	24.947	61.922	0.00	0.00
ATOM	5662	NE2	HIE	X	377	56.530	25.647	60.316	0.00	0.00
ATOM	5663	HE2	HIE	X	377	55.875	25.708	59.550	0.00	0.00
ATOM	5664	CD2	HIE	X	377	57.800	26.231	60.294	0.00	0.00
ATOM	5665	HD2	HIE	X	377	58.305	26.716	59.472	0.00	0.00
ATOM	5666	C	HIE	X	377	61.027	25.642	60.359	0.00	0.00
ATOM	5667	O	HIE	X	377	60.642	24.553	59.910	0.00	0.00
ATOM	5668	N	TYR	X	378	61.671	26.521	59.555	0.00	0.00
ATOM	5669	H	TYR	X	378	61.803	27.476	59.858	0.00	0.00
ATOM	5670	CA	TYR	X	378	61.689	26.287	58.076	0.00	0.00
ATOM	5671	HA	TYR	X	378	60.864	25.611	57.853	0.00	0.00
ATOM	5672	CB	TYR	X	378	61.381	27.590	57.327	0.00	0.00
ATOM	5673	HB2	TYR	X	378	61.760	28.484	57.822	0.00	0.00
ATOM	5674	HB3	TYR	X	378	61.808	27.531	56.326	0.00	0.00
ATOM	5675	CG	TYR	X	378	59.879	27.791	57.248	0.00	0.00
ATOM	5676	CD1	TYR	X	378	59.129	26.888	56.433	0.00	0.00
ATOM	5677	HD1	TYR	X	378	59.580	26.014	55.986	0.00	0.00
ATOM	5678	CE1	TYR	X	378	57.680	26.977	56.425	0.00	0.00
ATOM	5679	HE1	TYR	X	378	57.037	26.350	55.826	0.00	0.00
ATOM	5680	CZ	TYR	X	378	57.034	28.016	57.176	0.00	0.00
ATOM	5681	OH	TYR	X	378	55.683	28.174	57.031	0.00	0.00
ATOM	5682	HH	TYR	X	378	55.233	27.905	56.227	0.00	0.00
ATOM	5683	CE2	TYR	X	378	57.853	28.890	57.881	0.00	0.00
ATOM	5684	HE2	TYR	X	378	57.308	29.674	58.387	0.00	0.00
ATOM	5685	CD2	TYR	X	378	59.242	28.799	57.974	0.00	0.00
ATOM	5686	HD2	TYR	X	378	59.804	29.512	58.560	0.00	0.00
ATOM	5687	C	TYR	X	378	63.017	25.556	57.713	0.00	0.00
ATOM	5688	O	TYR	X	378	63.465	25.898	56.591	0.00	0.00
ATOM	5689	N	THR	X	379	63.632	24.837	58.637	0.00	0.00
ATOM	5690	H	THR	X	379	63.235	24.977	59.555	0.00	0.00
ATOM	5691	CA	THR	X	379	64.935	24.124	58.440	0.00	0.00
ATOM	5692	HA	THR	X	379	65.516	24.581	57.639	0.00	0.00
ATOM	5693	CB	THR	X	379	65.789	24.215	59.720	0.00	0.00

ATOM	5694	HB	THR	X	379	65.314	23.914	60.653	0.00	0.00
ATOM	5695	CG2	THR	X	379	67.059	23.411	59.577	0.00	0.00
ATOM	5696	HG21	THR	X	379	66.934	22.334	59.466	0.00	0.00
ATOM	5697	HG22	THR	X	379	67.710	23.648	60.419	0.00	0.00
ATOM	5698	HG23	THR	X	379	67.557	23.676	58.644	0.00	0.00
ATOM	5699	OG1	THR	X	379	66.241	25.542	59.712	0.00	0.00
ATOM	5700	HG1	THR	X	379	65.486	26.134	59.730	0.00	0.00
ATOM	5701	C	THR	X	379	64.803	22.695	58.033	0.00	0.00
ATOM	5702	O	THR	X	379	64.070	22.019	58.750	0.00	0.00
ATOM	5703	N	ASP	X	380	65.387	22.285	56.876	0.00	0.00
ATOM	5704	H	ASP	X	380	65.948	22.902	56.306	0.00	0.00
ATOM	5705	CA	ASP	X	380	65.354	20.884	56.385	0.00	0.00
ATOM	5706	HA	ASP	X	380	64.400	20.403	56.597	0.00	0.00
ATOM	5707	CB	ASP	X	380	65.409	20.914	54.801	0.00	0.00
ATOM	5708	HB2	ASP	X	380	64.654	21.544	54.330	0.00	0.00
ATOM	5709	HB3	ASP	X	380	66.379	21.302	54.488	0.00	0.00
ATOM	5710	CG	ASP	X	380	65.288	19.531	54.175	0.00	0.00
ATOM	5711	OD1	ASP	X	380	64.118	19.114	53.963	0.00	0.00
ATOM	5712	OD2	ASP	X	380	66.351	18.929	53.819	0.00	0.00
ATOM	5713	C	ASP	X	380	66.533	20.115	57.067	0.00	0.00
ATOM	5714	O	ASP	X	380	67.663	20.206	56.647	0.00	0.00
ATOM	5715	N	TRP	X	381	66.368	19.196	58.060	0.00	0.00
ATOM	5716	H	TRP	X	381	65.431	19.242	58.433	0.00	0.00
ATOM	5717	CA	TRP	X	381	67.400	18.540	58.903	0.00	0.00
ATOM	5718	HA	TRP	X	381	68.145	19.273	59.214	0.00	0.00
ATOM	5719	CB	TRP	X	381	66.732	18.130	60.250	0.00	0.00
ATOM	5720	HB2	TRP	X	381	65.842	17.639	59.858	0.00	0.00
ATOM	5721	HB3	TRP	X	381	67.314	17.370	60.772	0.00	0.00
ATOM	5722	CG	TRP	X	381	66.475	19.239	61.226	0.00	0.00
ATOM	5723	CD1	TRP	X	381	65.303	19.993	61.389	0.00	0.00
ATOM	5724	HD1	TRP	X	381	64.412	19.779	60.817	0.00	0.00
ATOM	5725	NE1	TRP	X	381	65.471	20.923	62.335	0.00	0.00
ATOM	5726	HE1	TRP	X	381	64.789	21.631	62.567	0.00	0.00
ATOM	5727	CE2	TRP	X	381	66.844	21.004	62.652	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	67.527	21.911	63.408	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	66.995	22.706	63.910	0.00	0.00
ATOM	5730	CH2	TRP	X	381	68.956	21.851	63.487	0.00	0.00
ATOM	5731	HH2	TRP	X	381	69.604	22.526	64.027	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	69.639	20.804	62.790	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	70.715	20.714	62.764	0.00	0.00
ATOM	5734	CE3	TRP	X	381	68.920	19.886	62.087	0.00	0.00
ATOM	5735	HE3	TRP	X	381	69.330	19.053	61.536	0.00	0.00
ATOM	5736	CD2	TRP	X	381	67.499	19.957	62.001	0.00	0.00
ATOM	5737	C	TRP	X	381	68.183	17.477	58.157	0.00	0.00
ATOM	5738	O	TRP	X	381	69.245	17.027	58.640	0.00	0.00
ATOM	5739	N	LEU	X	382	67.789	17.056	56.978	0.00	0.00
ATOM	5740	H	LEU	X	382	66.984	17.501	56.562	0.00	0.00
ATOM	5741	CA	LEU	X	382	68.516	16.180	56.081	0.00	0.00
ATOM	5742	HA	LEU	X	382	68.945	15.333	56.616	0.00	0.00
ATOM	5743	CB	LEU	X	382	67.669	15.604	54.943	0.00	0.00
ATOM	5744	HB2	LEU	X	382	67.098	16.417	54.495	0.00	0.00
ATOM	5745	HB3	LEU	X	382	68.218	15.093	54.151	0.00	0.00
ATOM	5746	CG	LEU	X	382	66.564	14.731	55.469	0.00	0.00
ATOM	5747	HG	LEU	X	382	66.093	15.226	56.318	0.00	0.00
ATOM	5748	CD1	LEU	X	382	65.606	14.503	54.338	0.00	0.00
ATOM	5749	HD11	LEU	X	382	64.818	13.822	54.661	0.00	0.00
ATOM	5750	HD12	LEU	X	382	66.179	14.044	53.532	0.00	0.00
ATOM	5751	HD13	LEU	X	382	65.143	15.406	53.938	0.00	0.00
ATOM	5752	CD2	LEU	X	382	66.892	13.387	56.087	0.00	0.00
ATOM	5753	HD21	LEU	X	382	67.487	12.753	55.430	0.00	0.00
ATOM	5754	HD22	LEU	X	382	67.218	13.393	57.127	0.00	0.00
ATOM	5755	HD23	LEU	X	382	65.945	12.866	56.222	0.00	0.00
ATOM	5756	C	LEU	X	382	69.771	16.840	55.477	0.00	0.00
ATOM	5757	O	LEU	X	382	70.870	16.235	55.590	0.00	0.00
ATOM	5758	N	HIE	X	383	69.647	18.156	55.240	0.00	0.00
ATOM	5759	H	HIE	X	383	68.746	18.605	55.321	0.00	0.00
ATOM	5760	CA	HIE	X	383	70.776	18.949	54.851	0.00	0.00

ATOM	5761	HA	HIE	X	383	71.545	18.753	55.599	0.00	0.00
ATOM	5762	CB	HIE	X	383	71.323	18.610	53.439	0.00	0.00
ATOM	5763	HB2	HIE	X	383	71.704	17.589	53.475	0.00	0.00
ATOM	5764	HB3	HIE	X	383	70.582	18.627	52.641	0.00	0.00
ATOM	5765	CG	HIE	X	383	72.553	19.472	53.044	0.00	0.00
ATOM	5766	ND1	HIE	X	383	73.270	20.388	53.842	0.00	0.00
ATOM	5767	CE1	HIE	X	383	74.230	20.787	52.994	0.00	0.00
ATOM	5768	HE1	HIE	X	383	74.983	21.537	53.188	0.00	0.00
ATOM	5769	NE2	HIE	X	383	74.029	20.352	51.748	0.00	0.00
ATOM	5770	HE2	HIE	X	383	74.612	20.665	50.985	0.00	0.00
ATOM	5771	CD2	HIE	X	383	73.070	19.430	51.791	0.00	0.00
ATOM	5772	HD2	HIE	X	383	72.552	18.882	51.017	0.00	0.00
ATOM	5773	C	HIE	X	383	70.401	20.417	54.936	0.00	0.00
ATOM	5774	O	HIE	X	383	69.886	20.985	53.971	0.00	0.00
ATOM	5775	N	PRO	X	384	70.810	21.060	56.020	0.00	0.00
ATOM	5776	CD	PRO	X	384	71.413	20.496	57.247	0.00	0.00
ATOM	5777	HD2	PRO	X	384	72.251	19.825	57.056	0.00	0.00
ATOM	5778	HD3	PRO	X	384	70.665	19.919	57.791	0.00	0.00
ATOM	5779	CG	PRO	X	384	71.671	21.663	58.239	0.00	0.00
ATOM	5780	HG2	PRO	X	384	72.602	22.198	58.052	0.00	0.00
ATOM	5781	HG3	PRO	X	384	71.799	21.150	59.192	0.00	0.00
ATOM	5782	CB	PRO	X	384	70.392	22.487	57.952	0.00	0.00
ATOM	5783	HB2	PRO	X	384	70.519	23.509	58.309	0.00	0.00
ATOM	5784	HB3	PRO	X	384	69.527	22.107	58.497	0.00	0.00
ATOM	5785	CA	PRO	X	384	70.311	22.414	56.393	0.00	0.00
ATOM	5786	HA	PRO	X	384	69.281	22.587	56.081	0.00	0.00
ATOM	5787	C	PRO	X	384	71.011	23.607	55.719	0.00	0.00
ATOM	5788	O	PRO	X	384	70.495	24.735	55.892	0.00	0.00
ATOM	5789	N	GLU	X	385	72.052	23.433	54.956	0.00	0.00
ATOM	5790	H	GLU	X	385	72.431	22.498	54.911	0.00	0.00
ATOM	5791	CA	GLU	X	385	72.844	24.491	54.406	0.00	0.00
ATOM	5792	HA	GLU	X	385	72.409	25.415	54.786	0.00	0.00
ATOM	5793	CB	GLU	X	385	74.310	24.386	54.864	0.00	0.00
ATOM	5794	HB2	GLU	X	385	74.612	23.349	54.721	0.00	0.00
ATOM	5795	HB3	GLU	X	385	75.063	24.992	54.359	0.00	0.00
ATOM	5796	CG	GLU	X	385	74.500	24.652	56.366	0.00	0.00
ATOM	5797	HG2	GLU	X	385	74.055	25.630	56.551	0.00	0.00
ATOM	5798	HG3	GLU	X	385	73.975	23.856	56.893	0.00	0.00
ATOM	5799	CD	GLU	X	385	75.909	24.581	56.823	0.00	0.00
ATOM	5800	OE1	GLU	X	385	76.795	25.346	56.338	0.00	0.00
ATOM	5801	OE2	GLU	X	385	76.189	23.596	57.472	0.00	0.00
ATOM	5802	C	GLU	X	385	72.746	24.404	52.820	0.00	0.00
ATOM	5803	O	GLU	X	385	73.474	25.091	52.109	0.00	0.00
ATOM	5804	N	ASP	X	386	71.928	23.529	52.354	0.00	0.00
ATOM	5805	H	ASP	X	386	71.597	22.922	53.090	0.00	0.00
ATOM	5806	CA	ASP	X	386	71.657	23.456	50.906	0.00	0.00
ATOM	5807	HA	ASP	X	386	72.615	23.409	50.386	0.00	0.00
ATOM	5808	CB	ASP	X	386	70.863	22.188	50.579	0.00	0.00
ATOM	5809	HB2	ASP	X	386	71.372	21.303	50.962	0.00	0.00
ATOM	5810	HB3	ASP	X	386	69.860	22.070	50.988	0.00	0.00
ATOM	5811	CG	ASP	X	386	70.774	21.992	49.103	0.00	0.00
ATOM	5812	OD1	ASP	X	386	70.143	22.844	48.426	0.00	0.00
ATOM	5813	OD2	ASP	X	386	70.909	20.874	48.621	0.00	0.00
ATOM	5814	C	ASP	X	386	71.006	24.730	50.352	0.00	0.00
ATOM	5815	O	ASP	X	386	69.908	24.991	50.766	0.00	0.00
ATOM	5816	N	PRO	X	387	71.613	25.471	49.462	0.00	0.00
ATOM	5817	CD	PRO	X	387	72.902	25.251	48.782	0.00	0.00
ATOM	5818	HD2	PRO	X	387	72.909	24.284	48.279	0.00	0.00
ATOM	5819	HD3	PRO	X	387	73.653	25.189	49.569	0.00	0.00
ATOM	5820	CG	PRO	X	387	73.024	26.409	47.818	0.00	0.00
ATOM	5821	HG2	PRO	X	387	72.536	26.223	46.861	0.00	0.00
ATOM	5822	HG3	PRO	X	387	74.080	26.634	47.667	0.00	0.00
ATOM	5823	CB	PRO	X	387	72.240	27.511	48.539	0.00	0.00
ATOM	5824	HB2	PRO	X	387	71.839	28.324	47.934	0.00	0.00
ATOM	5825	HB3	PRO	X	387	72.784	27.915	49.392	0.00	0.00
ATOM	5826	CA	PRO	X	387	71.075	26.766	49.108	0.00	0.00
ATOM	5827	HA	PRO	X	387	70.703	27.192	50.040	0.00	0.00

ATOM	5828	C	PRO	X	387	69.929	26.731	48.132	0.00	0.00
ATOM	5829	O	PRO	X	387	69.039	27.607	48.199	0.00	0.00
ATOM	5830	N	ALA	X	388	69.726	25.718	47.294	0.00	0.00
ATOM	5831	H	ALA	X	388	70.329	24.915	47.406	0.00	0.00
ATOM	5832	CA	ALA	X	388	68.461	25.564	46.588	0.00	0.00
ATOM	5833	HA	ALA	X	388	68.167	26.467	46.053	0.00	0.00
ATOM	5834	CB	ALA	X	388	68.613	24.608	45.365	0.00	0.00
ATOM	5835	HB1	ALA	X	388	67.687	24.445	44.814	0.00	0.00
ATOM	5836	HB2	ALA	X	388	68.929	23.658	45.796	0.00	0.00
ATOM	5837	HB3	ALA	X	388	69.371	24.910	44.642	0.00	0.00
ATOM	5838	C	ALA	X	388	67.229	25.222	47.481	0.00	0.00
ATOM	5839	O	ALA	X	388	66.159	25.781	47.233	0.00	0.00
ATOM	5840	N	ARG	X	389	67.428	24.332	48.485	0.00	0.00
ATOM	5841	H	ARG	X	389	68.348	23.962	48.676	0.00	0.00
ATOM	5842	CA	ARG	X	389	66.404	24.072	49.524	0.00	0.00
ATOM	5843	HA	ARG	X	389	65.532	23.756	48.951	0.00	0.00
ATOM	5844	CB	ARG	X	389	66.786	22.923	50.452	0.00	0.00
ATOM	5845	HB2	ARG	X	389	67.796	23.126	50.808	0.00	0.00
ATOM	5846	HB3	ARG	X	389	66.053	22.938	51.258	0.00	0.00
ATOM	5847	CG	ARG	X	389	66.656	21.561	49.748	0.00	0.00
ATOM	5848	HG2	ARG	X	389	65.603	21.466	49.483	0.00	0.00
ATOM	5849	HG3	ARG	X	389	67.322	21.613	48.888	0.00	0.00
ATOM	5850	CD	ARG	X	389	67.154	20.466	50.764	0.00	0.00
ATOM	5851	HD2	ARG	X	389	67.612	20.834	51.682	0.00	0.00
ATOM	5852	HD3	ARG	X	389	66.348	19.750	50.925	0.00	0.00
ATOM	5853	NE	ARG	X	389	68.205	19.613	50.175	0.00	0.00
ATOM	5854	HE	ARG	X	389	68.463	19.789	49.214	0.00	0.00
ATOM	5855	CZ	ARG	X	389	68.783	18.602	50.793	0.00	0.00
ATOM	5856	NH1	ARG	X	389	68.284	18.249	51.965	0.00	0.00
ATOM	5857	HH11	ARG	X	389	67.504	18.787	52.314	0.00	0.00
ATOM	5858	HH12	ARG	X	389	68.637	17.428	52.436	0.00	0.00
ATOM	5859	NH2	ARG	X	389	69.769	17.906	50.269	0.00	0.00
ATOM	5860	HH21	ARG	X	389	70.006	18.011	49.292	0.00	0.00
ATOM	5861	HH22	ARG	X	389	70.087	17.071	50.740	0.00	0.00
ATOM	5862	C	ARG	X	389	65.979	25.259	50.358	0.00	0.00
ATOM	5863	O	ARG	X	389	64.764	25.485	50.603	0.00	0.00
ATOM	5864	N	LEU	X	390	66.932	26.143	50.688	0.00	0.00
ATOM	5865	H	LEU	X	390	67.897	25.904	50.508	0.00	0.00
ATOM	5866	CA	LEU	X	390	66.698	27.456	51.346	0.00	0.00
ATOM	5867	HA	LEU	X	390	66.169	27.210	52.266	0.00	0.00
ATOM	5868	CB	LEU	X	390	68.023	28.100	51.851	0.00	0.00
ATOM	5869	HB2	LEU	X	390	68.665	28.353	51.007	0.00	0.00
ATOM	5870	HB3	LEU	X	390	67.853	29.070	52.318	0.00	0.00
ATOM	5871	CG	LEU	X	390	68.675	27.165	52.906	0.00	0.00
ATOM	5872	HG	LEU	X	390	68.508	26.122	52.638	0.00	0.00
ATOM	5873	CD1	LEU	X	390	70.149	27.559	53.003	0.00	0.00
ATOM	5874	HD11	LEU	X	390	70.599	27.538	52.011	0.00	0.00
ATOM	5875	HD12	LEU	X	390	70.751	26.983	53.706	0.00	0.00
ATOM	5876	HD13	LEU	X	390	70.206	28.596	53.334	0.00	0.00
ATOM	5877	CD2	LEU	X	390	68.113	27.479	54.323	0.00	0.00
ATOM	5878	HD21	LEU	X	390	68.358	26.654	54.993	0.00	0.00
ATOM	5879	HD22	LEU	X	390	68.403	28.476	54.653	0.00	0.00
ATOM	5880	HD23	LEU	X	390	67.024	27.434	54.319	0.00	0.00
ATOM	5881	C	LEU	X	390	65.990	28.397	50.407	0.00	0.00
ATOM	5882	O	LEU	X	390	64.968	28.863	50.791	0.00	0.00
ATOM	5883	N	ARG	X	391	66.455	28.600	49.226	0.00	0.00
ATOM	5884	H	ARG	X	391	67.370	28.185	49.118	0.00	0.00
ATOM	5885	CA	ARG	X	391	65.785	29.516	48.257	0.00	0.00
ATOM	5886	HA	ARG	X	391	65.639	30.513	48.674	0.00	0.00
ATOM	5887	CB	ARG	X	391	66.621	29.691	47.000	0.00	0.00
ATOM	5888	HB2	ARG	X	391	67.630	30.053	47.203	0.00	0.00
ATOM	5889	HB3	ARG	X	391	66.615	28.691	46.567	0.00	0.00
ATOM	5890	CG	ARG	X	391	66.089	30.769	46.041	0.00	0.00
ATOM	5891	HG2	ARG	X	391	65.013	30.931	46.102	0.00	0.00
ATOM	5892	HG3	ARG	X	391	66.538	31.673	46.452	0.00	0.00
ATOM	5893	CD	ARG	X	391	66.389	30.498	44.591	0.00	0.00
ATOM	5894	HD2	ARG	X	391	65.781	29.668	44.232	0.00	0.00

ATOM	5895	HD3	ARG	X	391	66.135	31.385	44.010	0.00	0.00
ATOM	5896	NE	ARG	X	391	67.763	30.266	44.338	0.00	0.00
ATOM	5897	HE	ARG	X	391	68.341	31.095	44.331	0.00	0.00
ATOM	5898	CZ	ARG	X	391	68.239	29.146	43.793	0.00	0.00
ATOM	5899	NH1	ARG	X	391	67.569	27.970	43.720	0.00	0.00
ATOM	5900	HH11	ARG	X	391	66.650	27.881	44.129	0.00	0.00
ATOM	5901	HH12	ARG	X	391	68.081	27.238	43.249	0.00	0.00
ATOM	5902	NH2	ARG	X	391	69.455	29.127	43.233	0.00	0.00
ATOM	5903	HH21	ARG	X	391	69.807	30.035	42.968	0.00	0.00
ATOM	5904	HH22	ARG	X	391	69.786	28.331	42.707	0.00	0.00
ATOM	5905	C	ARG	X	391	64.374	28.994	47.961	0.00	0.00
ATOM	5906	O	ARG	X	391	63.465	29.771	47.869	0.00	0.00
ATOM	5907	N	GLU	X	392	64.119	27.715	47.820	0.00	0.00
ATOM	5908	H	GLU	X	392	64.865	27.038	47.744	0.00	0.00
ATOM	5909	CA	GLU	X	392	62.779	27.111	47.793	0.00	0.00
ATOM	5910	HA	GLU	X	392	62.312	27.582	46.929	0.00	0.00
ATOM	5911	CB	GLU	X	392	62.853	25.512	47.602	0.00	0.00
ATOM	5912	HB2	GLU	X	392	63.287	25.229	46.643	0.00	0.00
ATOM	5913	HB3	GLU	X	392	63.533	25.042	48.313	0.00	0.00
ATOM	5914	CG	GLU	X	392	61.415	24.898	47.782	0.00	0.00
ATOM	5915	HG2	GLU	X	392	61.139	24.948	48.835	0.00	0.00
ATOM	5916	HG3	GLU	X	392	60.683	25.426	47.170	0.00	0.00
ATOM	5917	CD	GLU	X	392	61.281	23.500	47.294	0.00	0.00
ATOM	5918	OE1	GLU	X	392	61.440	23.119	46.131	0.00	0.00
ATOM	5919	OE2	GLU	X	392	61.123	22.583	48.081	0.00	0.00
ATOM	5920	C	GLU	X	392	61.903	27.447	48.998	0.00	0.00
ATOM	5921	O	GLU	X	392	60.894	28.094	48.916	0.00	0.00
ATOM	5922	N	ALA	X	393	62.344	27.017	50.251	0.00	0.00
ATOM	5923	H	ALA	X	393	63.214	26.509	50.316	0.00	0.00
ATOM	5924	CA	ALA	X	393	61.640	27.467	51.461	0.00	0.00
ATOM	5925	HA	ALA	X	393	60.733	26.866	51.522	0.00	0.00
ATOM	5926	CB	ALA	X	393	62.550	27.104	52.599	0.00	0.00
ATOM	5927	HB1	ALA	X	393	62.531	26.022	52.724	0.00	0.00
ATOM	5928	HB2	ALA	X	393	62.141	27.558	53.501	0.00	0.00
ATOM	5929	HB3	ALA	X	393	63.571	27.466	52.477	0.00	0.00
ATOM	5930	C	ALA	X	393	61.286	29.003	51.476	0.00	0.00
ATOM	5931	O	ALA	X	393	60.148	29.393	51.877	0.00	0.00
ATOM	5932	N	LEU	X	394	62.209	29.883	51.013	0.00	0.00
ATOM	5933	H	LEU	X	394	63.069	29.489	50.656	0.00	0.00
ATOM	5934	CA	LEU	X	394	62.033	31.355	51.078	0.00	0.00
ATOM	5935	HA	LEU	X	394	61.665	31.564	52.082	0.00	0.00
ATOM	5936	CB	LEU	X	394	63.362	31.957	50.836	0.00	0.00
ATOM	5937	HB2	LEU	X	394	64.120	31.681	51.569	0.00	0.00
ATOM	5938	HB3	LEU	X	394	63.738	31.635	49.865	0.00	0.00
ATOM	5939	CG	LEU	X	394	63.196	33.503	50.756	0.00	0.00
ATOM	5940	HG	LEU	X	394	62.349	33.882	50.184	0.00	0.00
ATOM	5941	CD1	LEU	X	394	62.933	34.081	52.140	0.00	0.00
ATOM	5942	HD11	LEU	X	394	61.919	33.870	52.479	0.00	0.00
ATOM	5943	HD12	LEU	X	394	63.051	35.163	52.087	0.00	0.00
ATOM	5944	HD13	LEU	X	394	63.590	33.814	52.968	0.00	0.00
ATOM	5945	CD2	LEU	X	394	64.530	34.112	50.275	0.00	0.00
ATOM	5946	HD21	LEU	X	394	64.560	35.200	50.229	0.00	0.00
ATOM	5947	HD22	LEU	X	394	65.405	33.836	50.863	0.00	0.00
ATOM	5948	HD23	LEU	X	394	64.742	33.692	49.292	0.00	0.00
ATOM	5949	C	LEU	X	394	60.923	31.768	50.099	0.00	0.00
ATOM	5950	O	LEU	X	394	60.161	32.666	50.447	0.00	0.00
ATOM	5951	N	SER	X	395	60.855	31.209	48.882	0.00	0.00
ATOM	5952	H	SER	X	395	61.633	30.581	48.742	0.00	0.00
ATOM	5953	CA	SER	X	395	59.838	31.409	47.868	0.00	0.00
ATOM	5954	HA	SER	X	395	59.735	32.431	47.504	0.00	0.00
ATOM	5955	CB	SER	X	395	60.333	30.556	46.671	0.00	0.00
ATOM	5956	HB2	SER	X	395	60.471	29.519	46.979	0.00	0.00
ATOM	5957	HB3	SER	X	395	59.449	30.499	46.036	0.00	0.00
ATOM	5958	OG	SER	X	395	61.426	31.106	46.046	0.00	0.00
ATOM	5959	HG	SER	X	395	62.021	30.376	45.860	0.00	0.00
ATOM	5960	C	SER	X	395	58.466	30.899	48.490	0.00	0.00
ATOM	5961	O	SER	X	395	57.457	31.484	48.320	0.00	0.00

ATOM	5962	N	ASP	X	396	58.481	29.844	49.306	0.00	0.00
ATOM	5963	H	ASP	X	396	59.358	29.353	49.408	0.00	0.00
ATOM	5964	CA	ASP	X	396	57.376	29.101	49.770	0.00	0.00
ATOM	5965	HA	ASP	X	396	56.644	28.999	48.968	0.00	0.00
ATOM	5966	CB	ASP	X	396	57.746	27.704	50.174	0.00	0.00
ATOM	5967	HB2	ASP	X	396	58.371	27.272	49.393	0.00	0.00
ATOM	5968	HB3	ASP	X	396	58.324	27.759	51.096	0.00	0.00
ATOM	5969	CG	ASP	X	396	56.605	26.753	50.559	0.00	0.00
ATOM	5970	OD1	ASP	X	396	56.034	26.305	49.530	0.00	0.00
ATOM	5971	OD2	ASP	X	396	56.329	26.448	51.747	0.00	0.00
ATOM	5972	C	ASP	X	396	56.801	29.940	50.897	0.00	0.00
ATOM	5973	O	ASP	X	396	55.573	30.115	50.864	0.00	0.00
ATOM	5974	N	VAL	X	397	57.611	30.515	51.799	0.00	0.00
ATOM	5975	H	VAL	X	397	58.586	30.266	51.719	0.00	0.00
ATOM	5976	CA	VAL	X	397	57.300	31.526	52.746	0.00	0.00
ATOM	5977	HA	VAL	X	397	56.545	31.151	53.437	0.00	0.00
ATOM	5978	CB	VAL	X	397	58.584	31.820	53.641	0.00	0.00
ATOM	5979	HB	VAL	X	397	59.539	31.856	53.117	0.00	0.00
ATOM	5980	CG1	VAL	X	397	58.477	33.204	54.331	0.00	0.00
ATOM	5981	HG11	VAL	X	397	58.604	33.975	53.572	0.00	0.00
ATOM	5982	HG12	VAL	X	397	57.507	33.385	54.794	0.00	0.00
ATOM	5983	HG13	VAL	X	397	59.347	33.361	54.970	0.00	0.00
ATOM	5984	CG2	VAL	X	397	58.822	30.739	54.637	0.00	0.00
ATOM	5985	HG21	VAL	X	397	59.837	30.757	55.035	0.00	0.00
ATOM	5986	HG22	VAL	X	397	58.551	29.739	54.298	0.00	0.00
ATOM	5987	HG23	VAL	X	397	58.247	31.004	55.524	0.00	0.00
ATOM	5988	C	VAL	X	397	56.643	32.861	52.160	0.00	0.00
ATOM	5989	O	VAL	X	397	55.675	33.404	52.714	0.00	0.00
ATOM	5990	N	VAL	X	398	57.236	33.342	51.059	0.00	0.00
ATOM	5991	H	VAL	X	398	58.136	32.997	50.759	0.00	0.00
ATOM	5992	CA	VAL	X	398	56.813	34.572	50.346	0.00	0.00
ATOM	5993	HA	VAL	X	398	56.590	35.209	51.202	0.00	0.00
ATOM	5994	CB	VAL	X	398	57.903	35.257	49.522	0.00	0.00
ATOM	5995	HB	VAL	X	398	58.292	34.584	48.757	0.00	0.00
ATOM	5996	CG1	VAL	X	398	57.402	36.606	48.880	0.00	0.00
ATOM	5997	HG11	VAL	X	398	57.021	37.242	49.678	0.00	0.00
ATOM	5998	HG12	VAL	X	398	58.236	36.986	48.290	0.00	0.00
ATOM	5999	HG13	VAL	X	398	56.567	36.404	48.209	0.00	0.00
ATOM	6000	CG2	VAL	X	398	59.125	35.618	50.447	0.00	0.00
ATOM	6001	HG21	VAL	X	398	59.383	34.844	51.170	0.00	0.00
ATOM	6002	HG22	VAL	X	398	58.905	36.497	51.053	0.00	0.00
ATOM	6003	HG23	VAL	X	398	59.979	35.752	49.784	0.00	0.00
ATOM	6004	C	VAL	X	398	55.499	34.315	49.650	0.00	0.00
ATOM	6005	O	VAL	X	398	54.700	35.238	49.647	0.00	0.00
ATOM	6006	N	GLY	X	399	55.105	33.041	49.345	0.00	0.00
ATOM	6007	H	GLY	X	399	55.744	32.272	49.489	0.00	0.00
ATOM	6008	CA	GLY	X	399	53.745	32.748	48.857	0.00	0.00
ATOM	6009	HA2	GLY	X	399	53.407	33.565	48.220	0.00	0.00
ATOM	6010	HA3	GLY	X	399	53.638	31.794	48.340	0.00	0.00
ATOM	6011	C	GLY	X	399	52.737	32.520	50.015	0.00	0.00
ATOM	6012	O	GLY	X	399	51.567	32.797	49.779	0.00	0.00
ATOM	6013	N	ASP	X	400	53.093	31.946	51.163	0.00	0.00
ATOM	6014	H	ASP	X	400	54.062	31.799	51.407	0.00	0.00
ATOM	6015	CA	ASP	X	400	52.191	31.162	52.016	0.00	0.00
ATOM	6016	HA	ASP	X	400	51.624	30.483	51.380	0.00	0.00
ATOM	6017	CB	ASP	X	400	53.070	30.307	52.988	0.00	0.00
ATOM	6018	HB2	ASP	X	400	54.036	30.073	52.540	0.00	0.00
ATOM	6019	HB3	ASP	X	400	53.199	30.880	53.906	0.00	0.00
ATOM	6020	CG	ASP	X	400	52.333	29.009	53.363	0.00	0.00
ATOM	6021	OD1	ASP	X	400	52.410	28.582	54.539	0.00	0.00
ATOM	6022	OD2	ASP	X	400	51.928	28.310	52.385	0.00	0.00
ATOM	6023	C	ASP	X	400	51.082	32.017	52.697	0.00	0.00
ATOM	6024	O	ASP	X	400	49.939	32.103	52.301	0.00	0.00
ATOM	6025	N	HIE	X	401	51.472	32.738	53.729	0.00	0.00
ATOM	6026	H	HIE	X	401	52.418	32.637	54.070	0.00	0.00
ATOM	6027	CA	HIE	X	401	50.724	33.837	54.401	0.00	0.00
ATOM	6028	HA	HIE	X	401	49.855	33.448	54.932	0.00	0.00

ATOM	6029	CB	HIE	X	401	51.662	34.385	55.548	0.00	0.00
ATOM	6030	HB2	HIE	X	401	51.030	34.771	56.348	0.00	0.00
ATOM	6031	HB3	HIE	X	401	52.339	33.633	55.953	0.00	0.00
ATOM	6032	CG	HIE	X	401	52.584	35.508	55.183	0.00	0.00
ATOM	6033	ND1	HIE	X	401	52.276	36.829	55.217	0.00	0.00
ATOM	6034	CE1	HIE	X	401	53.359	37.470	54.766	0.00	0.00
ATOM	6035	HE1	HIE	X	401	53.481	38.529	54.597	0.00	0.00
ATOM	6036	NE2	HIE	X	401	54.308	36.661	54.436	0.00	0.00
ATOM	6037	HE2	HIE	X	401	55.175	36.962	54.016	0.00	0.00
ATOM	6038	CD2	HIE	X	401	53.841	35.401	54.755	0.00	0.00
ATOM	6039	HD2	HIE	X	401	54.433	34.515	54.580	0.00	0.00
ATOM	6040	C	HIE	X	401	50.251	34.931	53.446	0.00	0.00
ATOM	6041	O	HIE	X	401	49.249	35.547	53.745	0.00	0.00
ATOM	6042	N	ASN	X	402	50.857	35.158	52.244	0.00	0.00
ATOM	6043	H	ASN	X	402	51.637	34.581	51.965	0.00	0.00
ATOM	6044	CA	ASN	X	402	50.357	36.162	51.274	0.00	0.00
ATOM	6045	HA	ASN	X	402	49.970	36.997	51.858	0.00	0.00
ATOM	6046	CB	ASN	X	402	51.549	36.770	50.477	0.00	0.00
ATOM	6047	HB2	ASN	X	402	52.128	35.947	50.058	0.00	0.00
ATOM	6048	HB3	ASN	X	402	51.139	37.310	49.623	0.00	0.00
ATOM	6049	CG	ASN	X	402	52.420	37.663	51.330	0.00	0.00
ATOM	6050	OD1	ASN	X	402	51.933	38.379	52.153	0.00	0.00
ATOM	6051	ND2	ASN	X	402	53.750	37.624	51.110	0.00	0.00
ATOM	6052	HD21	ASN	X	402	54.352	37.961	51.847	0.00	0.00
ATOM	6053	HD22	ASN	X	402	54.183	37.069	50.385	0.00	0.00
ATOM	6054	C	ASN	X	402	49.307	35.695	50.308	0.00	0.00
ATOM	6055	O	ASN	X	402	48.450	36.455	49.904	0.00	0.00
ATOM	6056	N	VAL	X	403	49.266	34.459	49.959	0.00	0.00
ATOM	6057	H	VAL	X	403	50.126	33.930	49.948	0.00	0.00
ATOM	6058	CA	VAL	X	403	48.173	33.914	49.164	0.00	0.00
ATOM	6059	HA	VAL	X	403	47.332	34.516	49.507	0.00	0.00
ATOM	6060	CB	VAL	X	403	48.265	34.341	47.652	0.00	0.00
ATOM	6061	HB	VAL	X	403	48.265	35.431	47.664	0.00	0.00
ATOM	6062	CG1	VAL	X	403	49.506	33.901	46.853	0.00	0.00
ATOM	6063	HG11	VAL	X	403	49.454	34.186	45.802	0.00	0.00
ATOM	6064	HG12	VAL	X	403	50.391	34.371	47.281	0.00	0.00
ATOM	6065	HG13	VAL	X	403	49.713	32.834	46.927	0.00	0.00
ATOM	6066	CG2	VAL	X	403	47.022	33.847	46.929	0.00	0.00
ATOM	6067	HG21	VAL	X	403	46.071	34.010	47.436	0.00	0.00
ATOM	6068	HG22	VAL	X	403	47.089	32.774	46.749	0.00	0.00
ATOM	6069	HG23	VAL	X	403	46.756	34.228	45.943	0.00	0.00
ATOM	6070	C	VAL	X	403	47.787	32.449	49.435	0.00	0.00
ATOM	6071	O	VAL	X	403	46.573	32.308	49.519	0.00	0.00
ATOM	6072	N	VAL	X	404	48.703	31.519	49.550	0.00	0.00
ATOM	6073	H	VAL	X	404	49.647	31.758	49.282	0.00	0.00
ATOM	6074	CA	VAL	X	404	48.276	30.064	49.506	0.00	0.00
ATOM	6075	HA	VAL	X	404	47.551	29.959	48.699	0.00	0.00
ATOM	6076	CB	VAL	X	404	49.499	29.027	49.377	0.00	0.00
ATOM	6077	HB	VAL	X	404	50.064	29.110	50.306	0.00	0.00
ATOM	6078	CG1	VAL	X	404	48.933	27.624	49.203	0.00	0.00
ATOM	6079	HG11	VAL	X	404	48.362	27.645	48.275	0.00	0.00
ATOM	6080	HG12	VAL	X	404	49.769	26.925	49.176	0.00	0.00
ATOM	6081	HG13	VAL	X	404	48.192	27.345	49.951	0.00	0.00
ATOM	6082	CG2	VAL	X	404	50.475	29.416	48.222	0.00	0.00
ATOM	6083	HG21	VAL	X	404	50.883	30.419	48.351	0.00	0.00
ATOM	6084	HG22	VAL	X	404	49.913	29.259	47.302	0.00	0.00
ATOM	6085	HG23	VAL	X	404	51.368	28.791	48.251	0.00	0.00
ATOM	6086	C	VAL	X	404	47.493	29.719	50.743	0.00	0.00
ATOM	6087	O	VAL	X	404	46.442	29.129	50.583	0.00	0.00
ATOM	6088	N	CYX	X	405	47.854	30.107	51.932	0.00	0.00
ATOM	6089	H	CYX	X	405	48.699	30.659	51.951	0.00	0.00
ATOM	6090	CA	CYX	X	405	47.043	29.871	53.125	0.00	0.00
ATOM	6091	HA	CYX	X	405	46.756	28.819	53.116	0.00	0.00
ATOM	6092	CB	CYX	X	405	47.830	30.150	54.381	0.00	0.00
ATOM	6093	HB2	CYX	X	405	48.462	31.032	54.276	0.00	0.00
ATOM	6094	HB3	CYX	X	405	47.133	30.201	55.217	0.00	0.00
ATOM	6095	SG	CYX	X	405	48.908	28.817	54.986	0.00	0.00

ATOM	6096	C	CYX	X	405	45.716	30.659	53.136	0.00	0.00
ATOM	6097	O	CYX	X	405	44.690	30.085	53.501	0.00	0.00
ATOM	6098	N	PRO	X	406	45.713	31.979	52.741	0.00	0.00
ATOM	6099	CD	PRO	X	406	46.820	32.869	52.658	0.00	0.00
ATOM	6100	HD2	PRO	X	406	47.469	32.658	51.808	0.00	0.00
ATOM	6101	HD3	PRO	X	406	47.396	32.797	53.581	0.00	0.00
ATOM	6102	CG	PRO	X	406	46.311	34.295	52.553	0.00	0.00
ATOM	6103	HG2	PRO	X	406	46.959	34.996	52.027	0.00	0.00
ATOM	6104	HG3	PRO	X	406	46.210	34.601	53.594	0.00	0.00
ATOM	6105	CB	PRO	X	406	44.979	34.049	51.908	0.00	0.00
ATOM	6106	HB2	PRO	X	406	45.215	33.947	50.849	0.00	0.00
ATOM	6107	HB3	PRO	X	406	44.343	34.910	52.112	0.00	0.00
ATOM	6108	CA	PRO	X	406	44.500	32.727	52.443	0.00	0.00
ATOM	6109	HA	PRO	X	406	43.956	32.904	53.371	0.00	0.00
ATOM	6110	C	PRO	X	406	43.530	32.022	51.500	0.00	0.00
ATOM	6111	O	PRO	X	406	42.286	32.157	51.749	0.00	0.00
ATOM	6112	N	VAL	X	407	43.992	31.309	50.440	0.00	0.00
ATOM	6113	H	VAL	X	407	44.986	31.410	50.293	0.00	0.00
ATOM	6114	CA	VAL	X	407	43.145	30.568	49.554	0.00	0.00
ATOM	6115	HA	VAL	X	407	42.238	31.124	49.315	0.00	0.00
ATOM	6116	CB	VAL	X	407	43.837	30.232	48.223	0.00	0.00
ATOM	6117	HB	VAL	X	407	44.863	29.982	48.496	0.00	0.00
ATOM	6118	CG1	VAL	X	407	43.132	29.190	47.377	0.00	0.00
ATOM	6119	HG11	VAL	X	407	43.101	28.255	47.936	0.00	0.00
ATOM	6120	HG12	VAL	X	407	42.142	29.619	47.225	0.00	0.00
ATOM	6121	HG13	VAL	X	407	43.617	28.957	46.429	0.00	0.00
ATOM	6122	CG2	VAL	X	407	44.077	31.505	47.384	0.00	0.00
ATOM	6123	HG21	VAL	X	407	44.806	31.317	46.596	0.00	0.00
ATOM	6124	HG22	VAL	X	407	44.428	32.321	48.017	0.00	0.00
ATOM	6125	HG23	VAL	X	407	43.201	31.865	46.845	0.00	0.00
ATOM	6126	C	VAL	X	407	42.583	29.323	50.268	0.00	0.00
ATOM	6127	O	VAL	X	407	41.417	29.078	50.139	0.00	0.00
ATOM	6128	N	ALA	X	408	43.328	28.566	51.060	0.00	0.00
ATOM	6129	H	ALA	X	408	44.256	28.888	51.295	0.00	0.00
ATOM	6130	CA	ALA	X	408	42.849	27.362	51.931	0.00	0.00
ATOM	6131	HA	ALA	X	408	42.383	26.636	51.264	0.00	0.00
ATOM	6132	CB	ALA	X	408	43.988	26.698	52.579	0.00	0.00
ATOM	6133	HB1	ALA	X	408	44.450	27.479	53.182	0.00	0.00
ATOM	6134	HB2	ALA	X	408	44.621	26.286	51.792	0.00	0.00
ATOM	6135	HB3	ALA	X	408	43.653	25.955	53.303	0.00	0.00
ATOM	6136	C	ALA	X	408	41.738	27.772	52.963	0.00	0.00
ATOM	6137	O	ALA	X	408	40.795	27.023	53.173	0.00	0.00
ATOM	6138	N	GLN	X	409	41.893	28.961	53.606	0.00	0.00
ATOM	6139	H	GLN	X	409	42.822	29.343	53.507	0.00	0.00
ATOM	6140	CA	GLN	X	409	40.950	29.670	54.416	0.00	0.00
ATOM	6141	HA	GLN	X	409	40.586	29.065	55.246	0.00	0.00
ATOM	6142	CB	GLN	X	409	41.584	30.900	55.068	0.00	0.00
ATOM	6143	HB2	GLN	X	409	42.090	31.401	54.243	0.00	0.00
ATOM	6144	HB3	GLN	X	409	40.746	31.435	55.513	0.00	0.00
ATOM	6145	CG	GLN	X	409	42.514	30.448	56.191	0.00	0.00
ATOM	6146	HG2	GLN	X	409	41.900	30.074	57.010	0.00	0.00
ATOM	6147	HG3	GLN	X	409	43.275	29.729	55.889	0.00	0.00
ATOM	6148	CD	GLN	X	409	43.395	31.617	56.742	0.00	0.00
ATOM	6149	OE1	GLN	X	409	43.866	32.467	55.985	0.00	0.00
ATOM	6150	NE2	GLN	X	409	43.759	31.569	58.007	0.00	0.00
ATOM	6151	HE21	GLN	X	409	44.321	32.306	58.408	0.00	0.00
ATOM	6152	HE22	GLN	X	409	43.436	30.711	58.431	0.00	0.00
ATOM	6153	C	GLN	X	409	39.651	30.063	53.600	0.00	0.00
ATOM	6154	O	GLN	X	409	38.483	29.741	53.919	0.00	0.00
ATOM	6155	N	LEU	X	410	39.782	30.804	52.514	0.00	0.00
ATOM	6156	H	LEU	X	410	40.731	31.103	52.346	0.00	0.00
ATOM	6157	CA	LEU	X	410	38.685	31.355	51.630	0.00	0.00
ATOM	6158	HA	LEU	X	410	38.003	31.984	52.202	0.00	0.00
ATOM	6159	CB	LEU	X	410	39.347	32.252	50.614	0.00	0.00
ATOM	6160	HB2	LEU	X	410	39.784	33.078	51.175	0.00	0.00
ATOM	6161	HB3	LEU	X	410	40.195	31.687	50.228	0.00	0.00
ATOM	6162	CG	LEU	X	410	38.360	32.826	49.607	0.00	0.00

ATOM	6163	HG	LEU	X	410	37.791	32.064	49.074	0.00	0.00
ATOM	6164	CD1	LEU	X	410	37.429	33.804	50.342	0.00	0.00
ATOM	6165	HD11	LEU	X	410	38.128	34.389	50.940	0.00	0.00
ATOM	6166	HD12	LEU	X	410	36.653	33.269	50.889	0.00	0.00
ATOM	6167	HD13	LEU	X	410	36.941	34.478	49.637	0.00	0.00
ATOM	6168	CD2	LEU	X	410	39.213	33.496	48.479	0.00	0.00
ATOM	6169	HD21	LEU	X	410	39.972	32.901	47.970	0.00	0.00
ATOM	6170	HD22	LEU	X	410	38.546	33.802	47.673	0.00	0.00
ATOM	6171	HD23	LEU	X	410	39.742	34.337	48.928	0.00	0.00
ATOM	6172	C	LEU	X	410	37.812	30.313	50.972	0.00	0.00
ATOM	6173	O	LEU	X	410	36.593	30.459	51.090	0.00	0.00
ATOM	6174	N	ALA	X	411	38.487	29.365	50.361	0.00	0.00
ATOM	6175	H	ALA	X	411	39.476	29.487	50.194	0.00	0.00
ATOM	6176	CA	ALA	X	411	37.929	28.088	49.784	0.00	0.00
ATOM	6177	HA	ALA	X	411	37.267	28.565	49.061	0.00	0.00
ATOM	6178	CB	ALA	X	411	39.060	27.235	49.252	0.00	0.00
ATOM	6179	HB1	ALA	X	411	39.682	26.965	50.105	0.00	0.00
ATOM	6180	HB2	ALA	X	411	39.738	27.852	48.662	0.00	0.00
ATOM	6181	HB3	ALA	X	411	38.618	26.378	48.742	0.00	0.00
ATOM	6182	C	ALA	X	411	37.150	27.331	50.860	0.00	0.00
ATOM	6183	O	ALA	X	411	35.969	26.931	50.672	0.00	0.00
ATOM	6184	N	GLY	X	412	37.685	27.230	52.065	0.00	0.00
ATOM	6185	H	GLY	X	412	38.513	27.764	52.286	0.00	0.00
ATOM	6186	CA	GLY	X	412	37.050	26.568	53.175	0.00	0.00
ATOM	6187	HA2	GLY	X	412	36.838	25.509	53.033	0.00	0.00
ATOM	6188	HA3	GLY	X	412	37.819	26.668	53.941	0.00	0.00
ATOM	6189	C	GLY	X	412	35.786	27.240	53.625	0.00	0.00
ATOM	6190	O	GLY	X	412	34.775	26.545	53.793	0.00	0.00
ATOM	6191	N	ARG	X	413	35.867	28.520	53.919	0.00	0.00
ATOM	6192	H	ARG	X	413	36.728	28.931	53.587	0.00	0.00
ATOM	6193	CA	ARG	X	413	34.791	29.348	54.296	0.00	0.00
ATOM	6194	HA	ARG	X	413	34.360	28.840	55.159	0.00	0.00
ATOM	6195	CB	ARG	X	413	35.253	30.782	54.616	0.00	0.00
ATOM	6196	HB2	ARG	X	413	35.840	30.677	55.528	0.00	0.00
ATOM	6197	HB3	ARG	X	413	35.896	31.150	53.816	0.00	0.00
ATOM	6198	CG	ARG	X	413	34.115	31.693	54.928	0.00	0.00
ATOM	6199	HG2	ARG	X	413	34.462	32.702	55.147	0.00	0.00
ATOM	6200	HG3	ARG	X	413	33.480	31.834	54.053	0.00	0.00
ATOM	6201	CD	ARG	X	413	33.263	31.194	56.062	0.00	0.00
ATOM	6202	HD2	ARG	X	413	32.742	30.277	55.785	0.00	0.00
ATOM	6203	HD3	ARG	X	413	33.887	31.017	56.938	0.00	0.00
ATOM	6204	NE	ARG	X	413	32.252	32.216	56.308	0.00	0.00
ATOM	6205	HE	ARG	X	413	32.248	32.911	55.575	0.00	0.00
ATOM	6206	CZ	ARG	X	413	31.619	32.434	57.428	0.00	0.00
ATOM	6207	NH1	ARG	X	413	31.819	31.625	58.426	0.00	0.00
ATOM	6208	HH11	ARG	X	413	32.148	30.681	58.286	0.00	0.00
ATOM	6209	HH12	ARG	X	413	31.708	31.889	59.394	0.00	0.00
ATOM	6210	NH2	ARG	X	413	30.671	33.358	57.527	0.00	0.00
ATOM	6211	HH21	ARG	X	413	30.595	33.981	56.735	0.00	0.00
ATOM	6212	HH22	ARG	X	413	30.242	33.557	58.419	0.00	0.00
ATOM	6213	C	ARG	X	413	33.673	29.297	53.256	0.00	0.00
ATOM	6214	O	ARG	X	413	32.545	28.880	53.546	0.00	0.00
ATOM	6215	N	LEU	X	414	33.948	29.506	51.928	0.00	0.00
ATOM	6216	H	LEU	X	414	34.811	29.938	51.630	0.00	0.00
ATOM	6217	CA	LEU	X	414	32.823	29.545	50.958	0.00	0.00
ATOM	6218	HA	LEU	X	414	32.133	30.216	51.470	0.00	0.00
ATOM	6219	CB	LEU	X	414	33.356	30.147	49.613	0.00	0.00
ATOM	6220	HB2	LEU	X	414	34.303	29.691	49.320	0.00	0.00
ATOM	6221	HB3	LEU	X	414	32.589	30.078	48.842	0.00	0.00
ATOM	6222	CG	LEU	X	414	33.703	31.619	49.766	0.00	0.00
ATOM	6223	HG	LEU	X	414	34.528	31.614	50.479	0.00	0.00
ATOM	6224	CD1	LEU	X	414	34.178	32.122	48.410	0.00	0.00
ATOM	6225	HD11	LEU	X	414	34.514	33.157	48.472	0.00	0.00
ATOM	6226	HD12	LEU	X	414	33.436	31.889	47.646	0.00	0.00
ATOM	6227	HD13	LEU	X	414	34.986	31.426	48.183	0.00	0.00
ATOM	6228	CD2	LEU	X	414	32.550	32.541	50.166	0.00	0.00
ATOM	6229	HD21	LEU	X	414	32.594	33.592	49.883	0.00	0.00

ATOM	6230	HD22	LEU	X	414	31.635	32.224	49.664	0.00	0.00
ATOM	6231	HD23	LEU	X	414	32.345	32.499	51.236	0.00	0.00
ATOM	6232	C	LEU	X	414	32.184	28.178	50.804	0.00	0.00
ATOM	6233	O	LEU	X	414	30.963	28.091	50.714	0.00	0.00
ATOM	6234	N	ALA	X	415	33.058	27.175	50.838	0.00	0.00
ATOM	6235	H	ALA	X	415	34.033	27.373	51.014	0.00	0.00
ATOM	6236	CA	ALA	X	415	32.569	25.772	50.777	0.00	0.00
ATOM	6237	HA	ALA	X	415	32.017	25.730	49.837	0.00	0.00
ATOM	6238	CB	ALA	X	415	33.721	24.845	50.784	0.00	0.00
ATOM	6239	HB1	ALA	X	415	34.285	24.963	49.859	0.00	0.00
ATOM	6240	HB2	ALA	X	415	33.453	23.815	51.020	0.00	0.00
ATOM	6241	HB3	ALA	X	415	34.425	25.138	51.564	0.00	0.00
ATOM	6242	C	ALA	X	415	31.589	25.533	51.974	0.00	0.00
ATOM	6243	O	ALA	X	415	30.467	25.050	51.724	0.00	0.00
ATOM	6244	N	ALA	X	416	32.020	25.787	53.187	0.00	0.00
ATOM	6245	H	ALA	X	416	32.934	26.187	53.345	0.00	0.00
ATOM	6246	CA	ALA	X	416	31.203	25.506	54.443	0.00	0.00
ATOM	6247	HA	ALA	X	416	31.009	24.436	54.372	0.00	0.00
ATOM	6248	CB	ALA	X	416	32.159	25.774	55.579	0.00	0.00
ATOM	6249	HB1	ALA	X	416	32.401	26.836	55.523	0.00	0.00
ATOM	6250	HB2	ALA	X	416	33.065	25.192	55.413	0.00	0.00
ATOM	6251	HB3	ALA	X	416	31.728	25.331	56.476	0.00	0.00
ATOM	6252	C	ALA	X	416	29.836	26.238	54.480	0.00	0.00
ATOM	6253	O	ALA	X	416	28.851	25.629	54.929	0.00	0.00
ATOM	6254	N	GLN	X	417	29.770	27.402	53.879	0.00	0.00
ATOM	6255	H	GLN	X	417	30.642	27.806	53.566	0.00	0.00
ATOM	6256	CA	GLN	X	417	28.691	28.327	53.841	0.00	0.00
ATOM	6257	HA	GLN	X	417	28.196	28.166	54.799	0.00	0.00
ATOM	6258	CB	GLN	X	417	29.136	29.770	53.595	0.00	0.00
ATOM	6259	HB2	GLN	X	417	29.674	29.969	52.668	0.00	0.00
ATOM	6260	HB3	GLN	X	417	28.183	30.264	53.403	0.00	0.00
ATOM	6261	CG	GLN	X	417	29.810	30.510	54.779	0.00	0.00
ATOM	6262	HG2	GLN	X	417	30.853	30.226	54.918	0.00	0.00
ATOM	6263	HG3	GLN	X	417	29.795	31.592	54.651	0.00	0.00
ATOM	6264	CD	GLN	X	417	29.170	30.227	56.140	0.00	0.00
ATOM	6265	OE1	GLN	X	417	29.701	29.473	56.959	0.00	0.00
ATOM	6266	NE2	GLN	X	417	28.063	30.839	56.444	0.00	0.00
ATOM	6267	HE21	GLN	X	417	27.669	30.599	57.342	0.00	0.00
ATOM	6268	HE22	GLN	X	417	27.403	31.222	55.781	0.00	0.00
ATOM	6269	C	GLN	X	417	27.673	27.976	52.749	0.00	0.00
ATOM	6270	O	GLN	X	417	26.547	28.561	52.718	0.00	0.00
ATOM	6271	N	GLY	X	418	27.967	27.041	51.840	0.00	0.00
ATOM	6272	H	GLY	X	418	28.847	26.552	51.917	0.00	0.00
ATOM	6273	CA	GLY	X	418	27.022	26.583	50.775	0.00	0.00
ATOM	6274	HA2	GLY	X	418	27.243	25.594	50.376	0.00	0.00
ATOM	6275	HA3	GLY	X	418	25.996	26.742	51.107	0.00	0.00
ATOM	6276	C	GLY	X	418	27.113	27.337	49.453	0.00	0.00
ATOM	6277	O	GLY	X	418	26.162	27.285	48.620	0.00	0.00
ATOM	6278	N	ALA	X	419	28.262	28.026	49.312	0.00	0.00
ATOM	6279	H	ALA	X	419	29.052	27.977	49.939	0.00	0.00
ATOM	6280	CA	ALA	X	419	28.673	28.376	47.945	0.00	0.00
ATOM	6281	HA	ALA	X	419	27.909	28.861	47.338	0.00	0.00
ATOM	6282	CB	ALA	X	419	29.795	29.415	48.010	0.00	0.00
ATOM	6283	HB1	ALA	X	419	30.807	29.099	48.266	0.00	0.00
ATOM	6284	HB2	ALA	X	419	29.499	30.125	48.782	0.00	0.00
ATOM	6285	HB3	ALA	X	419	29.821	29.928	47.049	0.00	0.00
ATOM	6286	C	ALA	X	419	29.196	27.054	47.194	0.00	0.00
ATOM	6287	O	ALA	X	419	29.573	26.087	47.865	0.00	0.00
ATOM	6288	N	ARG	X	420	29.199	27.142	45.894	0.00	0.00
ATOM	6289	H	ARG	X	420	29.028	28.072	45.540	0.00	0.00
ATOM	6290	CA	ARG	X	420	29.924	26.186	45.079	0.00	0.00
ATOM	6291	HA	ARG	X	420	29.994	25.299	45.708	0.00	0.00
ATOM	6292	CB	ARG	X	420	29.235	25.731	43.811	0.00	0.00
ATOM	6293	HB2	ARG	X	420	28.153	25.779	43.939	0.00	0.00
ATOM	6294	HB3	ARG	X	420	29.515	26.472	43.063	0.00	0.00
ATOM	6295	CG	ARG	X	420	29.623	24.360	43.248	0.00	0.00
ATOM	6296	HG2	ARG	X	420	29.265	24.284	42.221	0.00	0.00

ATOM	6297	HG3	ARG	X	420	30.706	24.250	43.205	0.00	0.00
ATOM	6298	CD	ARG	X	420	29.044	23.130	44.028	0.00	0.00
ATOM	6299	HD2	ARG	X	420	29.333	22.239	43.471	0.00	0.00
ATOM	6300	HD3	ARG	X	420	29.611	23.048	44.955	0.00	0.00
ATOM	6301	NE	ARG	X	420	27.581	23.269	44.107	0.00	0.00
ATOM	6302	HE	ARG	X	420	27.124	23.112	43.220	0.00	0.00
ATOM	6303	CZ	ARG	X	420	26.935	23.737	45.153	0.00	0.00
ATOM	6304	NH1	ARG	X	420	27.619	23.897	46.307	0.00	0.00
ATOM	6305	HH11	ARG	X	420	28.514	23.433	46.375	0.00	0.00
ATOM	6306	HH12	ARG	X	420	27.175	24.311	47.114	0.00	0.00
ATOM	6307	NH2	ARG	X	420	25.717	24.190	45.112	0.00	0.00
ATOM	6308	HH21	ARG	X	420	25.129	24.018	44.309	0.00	0.00
ATOM	6309	HH22	ARG	X	420	25.380	24.735	45.893	0.00	0.00
ATOM	6310	C	ARG	X	420	31.304	26.742	44.757	0.00	0.00
ATOM	6311	O	ARG	X	420	31.389	27.880	44.291	0.00	0.00
ATOM	6312	N	VAL	X	421	32.313	25.984	45.183	0.00	0.00
ATOM	6313	H	VAL	X	421	32.051	25.178	45.733	0.00	0.00
ATOM	6314	CA	VAL	X	421	33.724	26.275	45.103	0.00	0.00
ATOM	6315	HA	VAL	X	421	33.930	27.238	44.636	0.00	0.00
ATOM	6316	CB	VAL	X	421	34.378	26.344	46.503	0.00	0.00
ATOM	6317	HB	VAL	X	421	34.378	25.335	46.914	0.00	0.00
ATOM	6318	CG1	VAL	X	421	35.827	26.913	46.499	0.00	0.00
ATOM	6319	HG11	VAL	X	421	36.166	27.175	47.501	0.00	0.00
ATOM	6320	HG12	VAL	X	421	36.549	26.177	46.144	0.00	0.00
ATOM	6321	HG13	VAL	X	421	35.839	27.743	45.793	0.00	0.00
ATOM	6322	CG2	VAL	X	421	33.568	27.158	47.478	0.00	0.00
ATOM	6323	HG21	VAL	X	421	32.546	26.782	47.522	0.00	0.00
ATOM	6324	HG22	VAL	X	421	33.465	28.187	47.133	0.00	0.00
ATOM	6325	HG23	VAL	X	421	34.086	27.055	48.431	0.00	0.00
ATOM	6326	C	VAL	X	421	34.398	25.178	44.249	0.00	0.00
ATOM	6327	O	VAL	X	421	34.115	24.026	44.387	0.00	0.00
ATOM	6328	N	TYR	X	422	35.520	25.544	43.647	0.00	0.00
ATOM	6329	H	TYR	X	422	35.834	26.503	43.635	0.00	0.00
ATOM	6330	CA	TYR	X	422	36.463	24.646	42.950	0.00	0.00
ATOM	6331	HA	TYR	X	422	36.261	23.627	43.279	0.00	0.00
ATOM	6332	CB	TYR	X	422	35.975	24.681	41.467	0.00	0.00
ATOM	6333	HB2	TYR	X	422	35.965	25.720	41.138	0.00	0.00
ATOM	6334	HB3	TYR	X	422	36.744	24.249	40.826	0.00	0.00
ATOM	6335	CG	TYR	X	422	34.571	24.244	41.187	0.00	0.00
ATOM	6336	CD1	TYR	X	422	34.308	22.897	40.878	0.00	0.00
ATOM	6337	HD1	TYR	X	422	35.071	22.141	40.989	0.00	0.00
ATOM	6338	CE1	TYR	X	422	33.041	22.443	40.457	0.00	0.00
ATOM	6339	HE1	TYR	X	422	32.765	21.408	40.320	0.00	0.00
ATOM	6340	CZ	TYR	X	422	31.996	23.414	40.300	0.00	0.00
ATOM	6341	OH	TYR	X	422	30.750	22.999	40.036	0.00	0.00
ATOM	6342	HH	TYR	X	422	30.699	22.048	39.912	0.00	0.00
ATOM	6343	CE2	TYR	X	422	32.267	24.778	40.436	0.00	0.00
ATOM	6344	HE2	TYR	X	422	31.475	25.501	40.303	0.00	0.00
ATOM	6345	CD2	TYR	X	422	33.574	25.243	40.826	0.00	0.00
ATOM	6346	HD2	TYR	X	422	33.707	26.302	40.995	0.00	0.00
ATOM	6347	C	TYR	X	422	37.971	25.200	42.994	0.00	0.00
ATOM	6348	O	TYR	X	422	38.051	26.440	42.797	0.00	0.00
ATOM	6349	N	ALA	X	423	38.965	24.468	43.408	0.00	0.00
ATOM	6350	H	ALA	X	423	38.771	23.482	43.514	0.00	0.00
ATOM	6351	CA	ALA	X	423	40.343	24.883	43.584	0.00	0.00
ATOM	6352	HA	ALA	X	423	40.428	25.932	43.298	0.00	0.00
ATOM	6353	CB	ALA	X	423	40.841	24.583	45.024	0.00	0.00
ATOM	6354	HB1	ALA	X	423	40.249	25.133	45.755	0.00	0.00
ATOM	6355	HB2	ALA	X	423	41.897	24.781	45.205	0.00	0.00
ATOM	6356	HB3	ALA	X	423	40.639	23.529	45.217	0.00	0.00
ATOM	6357	C	ALA	X	423	41.337	24.211	42.600	0.00	0.00
ATOM	6358	O	ALA	X	423	41.279	23.010	42.307	0.00	0.00
ATOM	6359	N	TYR	X	424	42.339	24.946	42.156	0.00	0.00
ATOM	6360	H	TYR	X	424	42.392	25.914	42.442	0.00	0.00
ATOM	6361	CA	TYR	X	424	43.481	24.452	41.391	0.00	0.00
ATOM	6362	HA	TYR	X	424	43.537	23.365	41.445	0.00	0.00
ATOM	6363	CB	TYR	X	424	43.302	24.791	39.921	0.00	0.00

ATOM	6364	HB2	TYR	X	424	44.015	24.151	39.403	0.00	0.00
ATOM	6365	HB3	TYR	X	424	42.302	24.522	39.579	0.00	0.00
ATOM	6366	CG	TYR	X	424	43.570	26.283	39.575	0.00	0.00
ATOM	6367	CD1	TYR	X	424	44.924	26.675	39.395	0.00	0.00
ATOM	6368	HD1	TYR	X	424	45.675	25.915	39.236	0.00	0.00
ATOM	6369	CE1	TYR	X	424	45.199	28.084	39.212	0.00	0.00
ATOM	6370	HE1	TYR	X	424	46.210	28.428	39.050	0.00	0.00
ATOM	6371	CZ	TYR	X	424	44.126	28.973	39.157	0.00	0.00
ATOM	6372	OH	TYR	X	424	44.362	30.273	38.807	0.00	0.00
ATOM	6373	HH	TYR	X	424	45.237	30.489	38.479	0.00	0.00
ATOM	6374	CE2	TYR	X	424	42.798	28.526	39.307	0.00	0.00
ATOM	6375	HE2	TYR	X	424	41.992	29.243	39.355	0.00	0.00
ATOM	6376	CD2	TYR	X	424	42.513	27.210	39.533	0.00	0.00
ATOM	6377	HD2	TYR	X	424	41.487	26.958	39.760	0.00	0.00
ATOM	6378	C	TYR	X	424	44.890	24.904	41.947	0.00	0.00
ATOM	6379	O	TYR	X	424	45.003	25.884	42.715	0.00	0.00
ATOM	6380	N	VAL	X	425	45.950	24.217	41.546	0.00	0.00
ATOM	6381	H	VAL	X	425	45.883	23.353	41.028	0.00	0.00
ATOM	6382	CA	VAL	X	425	47.316	24.753	41.587	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.285	25.773	41.969	0.00	0.00
ATOM	6384	CB	VAL	X	425	48.369	24.041	42.556	0.00	0.00
ATOM	6385	HB	VAL	X	425	48.031	24.215	43.577	0.00	0.00
ATOM	6386	CG1	VAL	X	425	48.150	22.429	42.335	0.00	0.00
ATOM	6387	HG11	VAL	X	425	48.222	22.141	41.286	0.00	0.00
ATOM	6388	HG12	VAL	X	425	48.831	21.789	42.897	0.00	0.00
ATOM	6389	HG13	VAL	X	425	47.147	22.211	42.700	0.00	0.00
ATOM	6390	CG2	VAL	X	425	49.776	24.678	42.565	0.00	0.00
ATOM	6391	HG21	VAL	X	425	50.185	24.676	41.555	0.00	0.00
ATOM	6392	HG22	VAL	X	425	50.481	24.041	43.100	0.00	0.00
ATOM	6393	HG23	VAL	X	425	49.890	25.718	42.871	0.00	0.00
ATOM	6394	C	VAL	X	425	47.851	24.597	40.100	0.00	0.00
ATOM	6395	O	VAL	X	425	47.561	23.591	39.443	0.00	0.00
ATOM	6396	N	PHE	X	426	48.558	25.529	39.562	0.00	0.00
ATOM	6397	H	PHE	X	426	48.556	26.473	39.921	0.00	0.00
ATOM	6398	CA	PHE	X	426	49.213	25.397	38.262	0.00	0.00
ATOM	6399	HA	PHE	X	426	48.723	24.667	37.619	0.00	0.00
ATOM	6400	CB	PHE	X	426	48.936	26.758	37.617	0.00	0.00
ATOM	6401	HB2	PHE	X	426	47.875	27.002	37.561	0.00	0.00
ATOM	6402	HB3	PHE	X	426	49.493	27.470	38.226	0.00	0.00
ATOM	6403	CG	PHE	X	426	49.383	26.835	36.193	0.00	0.00
ATOM	6404	CD1	PHE	X	426	48.632	26.399	35.122	0.00	0.00
ATOM	6405	HD1	PHE	X	426	47.645	26.039	35.369	0.00	0.00
ATOM	6406	CE1	PHE	X	426	49.097	26.471	33.802	0.00	0.00
ATOM	6407	HE1	PHE	X	426	48.482	26.099	32.996	0.00	0.00
ATOM	6408	CZ	PHE	X	426	50.366	27.022	33.537	0.00	0.00
ATOM	6409	HZ	PHE	X	426	50.760	26.977	32.533	0.00	0.00
ATOM	6410	CE2	PHE	X	426	51.130	27.497	34.597	0.00	0.00
ATOM	6411	HE2	PHE	X	426	52.048	28.041	34.427	0.00	0.00
ATOM	6412	CD2	PHE	X	426	50.673	27.343	35.916	0.00	0.00
ATOM	6413	HD2	PHE	X	426	51.310	27.699	36.712	0.00	0.00
ATOM	6414	C	PHE	X	426	50.733	25.106	38.280	0.00	0.00
ATOM	6415	O	PHE	X	426	51.478	25.789	38.975	0.00	0.00
ATOM	6416	N	GLU	X	427	51.283	24.138	37.461	0.00	0.00
ATOM	6417	H	GLU	X	427	50.659	23.612	36.866	0.00	0.00
ATOM	6418	CA	GLU	X	427	52.622	23.548	37.657	0.00	0.00
ATOM	6419	HA	GLU	X	427	53.103	23.970	38.539	0.00	0.00
ATOM	6420	CB	GLU	X	427	52.342	21.998	37.918	0.00	0.00
ATOM	6421	HB2	GLU	X	427	51.964	21.534	37.007	0.00	0.00
ATOM	6422	HB3	GLU	X	427	53.339	21.592	38.085	0.00	0.00
ATOM	6423	CG	GLU	X	427	51.432	21.703	39.074	0.00	0.00
ATOM	6424	HG2	GLU	X	427	51.641	22.243	39.997	0.00	0.00
ATOM	6425	HG3	GLU	X	427	50.385	21.871	38.824	0.00	0.00
ATOM	6426	CD	GLU	X	427	51.513	20.184	39.421	0.00	0.00
ATOM	6427	OE1	GLU	X	427	52.523	19.790	40.055	0.00	0.00
ATOM	6428	OE2	GLU	X	427	50.569	19.434	39.103	0.00	0.00
ATOM	6429	C	GLU	X	427	53.573	23.671	36.432	0.00	0.00
ATOM	6430	O	GLU	X	427	54.719	23.273	36.605	0.00	0.00

ATOM	6431	N	HIE	X	428	53.095	24.099	35.265	0.00	0.00
ATOM	6432	H	HIE	X	428	52.120	24.354	35.201	0.00	0.00
ATOM	6433	CA	HIE	X	428	53.863	24.238	34.003	0.00	0.00
ATOM	6434	HA	HIE	X	428	54.566	23.407	34.051	0.00	0.00
ATOM	6435	CB	HIE	X	428	52.868	23.986	32.856	0.00	0.00
ATOM	6436	HB2	HIE	X	428	52.340	23.042	32.990	0.00	0.00
ATOM	6437	HB3	HIE	X	428	52.123	24.780	32.804	0.00	0.00
ATOM	6438	CG	HIE	X	428	53.595	23.775	31.560	0.00	0.00
ATOM	6439	ND1	HIE	X	428	54.694	22.948	31.433	0.00	0.00
ATOM	6440	CE1	HIE	X	428	55.249	23.118	30.212	0.00	0.00
ATOM	6441	HE1	HIE	X	428	56.168	22.660	29.876	0.00	0.00
ATOM	6442	NE2	HIE	X	428	54.580	24.066	29.564	0.00	0.00
ATOM	6443	HE2	HIE	X	428	54.874	24.495	28.698	0.00	0.00
ATOM	6444	CD2	HIE	X	428	53.515	24.419	30.386	0.00	0.00
ATOM	6445	HD2	HIE	X	428	52.962	25.319	30.160	0.00	0.00
ATOM	6446	C	HIE	X	428	54.604	25.538	33.854	0.00	0.00
ATOM	6447	O	HIE	X	428	54.084	26.617	33.977	0.00	0.00
ATOM	6448	N	ARG	X	429	55.894	25.433	33.398	0.00	0.00
ATOM	6449	H	ARG	X	429	56.190	24.482	33.229	0.00	0.00
ATOM	6450	CA	ARG	X	429	56.781	26.546	32.978	0.00	0.00
ATOM	6451	HA	ARG	X	429	56.254	27.469	33.219	0.00	0.00
ATOM	6452	CB	ARG	X	429	58.085	26.484	33.734	0.00	0.00
ATOM	6453	HB2	ARG	X	429	57.902	26.501	34.808	0.00	0.00
ATOM	6454	HB3	ARG	X	429	58.426	25.477	33.491	0.00	0.00
ATOM	6455	CG	ARG	X	429	59.122	27.541	33.491	0.00	0.00
ATOM	6456	HG2	ARG	X	429	59.267	27.577	32.411	0.00	0.00
ATOM	6457	HG3	ARG	X	429	58.818	28.527	33.844	0.00	0.00
ATOM	6458	CD	ARG	X	429	60.460	27.143	34.083	0.00	0.00
ATOM	6459	HD2	ARG	X	429	60.370	27.176	35.169	0.00	0.00
ATOM	6460	HD3	ARG	X	429	60.715	26.147	33.720	0.00	0.00
ATOM	6461	NE	ARG	X	429	61.573	28.083	33.686	0.00	0.00
ATOM	6462	HE	ARG	X	429	61.693	28.867	34.312	0.00	0.00
ATOM	6463	CZ	ARG	X	429	62.485	27.865	32.722	0.00	0.00
ATOM	6464	NH1	ARG	X	429	62.487	26.870	31.860	0.00	0.00
ATOM	6465	HH11	ARG	X	429	61.760	26.169	31.846	0.00	0.00
ATOM	6466	HH12	ARG	X	429	63.213	26.885	31.157	0.00	0.00
ATOM	6467	NH2	ARG	X	429	63.440	28.698	32.516	0.00	0.00
ATOM	6468	HH21	ARG	X	429	63.415	29.588	32.992	0.00	0.00
ATOM	6469	HH22	ARG	X	429	64.136	28.427	31.835	0.00	0.00
ATOM	6470	C	ARG	X	429	56.949	26.449	31.457	0.00	0.00
ATOM	6471	O	ARG	X	429	57.295	25.415	30.913	0.00	0.00
ATOM	6472	N	ALA	X	430	56.565	27.537	30.769	0.00	0.00
ATOM	6473	H	ALA	X	430	56.293	28.378	31.258	0.00	0.00
ATOM	6474	CA	ALA	X	430	56.459	27.554	29.325	0.00	0.00
ATOM	6475	HA	ALA	X	430	55.854	26.777	28.858	0.00	0.00
ATOM	6476	CB	ALA	X	430	55.696	28.801	29.061	0.00	0.00
ATOM	6477	HB1	ALA	X	430	54.634	28.597	29.192	0.00	0.00
ATOM	6478	HB2	ALA	X	430	55.737	29.047	28.000	0.00	0.00
ATOM	6479	HB3	ALA	X	430	55.990	29.687	29.624	0.00	0.00
ATOM	6480	C	ALA	X	430	57.803	27.679	28.687	0.00	0.00
ATOM	6481	O	ALA	X	430	58.657	28.372	29.205	0.00	0.00
ATOM	6482	N	SER	X	431	57.948	27.249	27.464	0.00	0.00
ATOM	6483	H	SER	X	431	57.185	26.762	27.016	0.00	0.00
ATOM	6484	CA	SER	X	431	59.167	27.229	26.644	0.00	0.00
ATOM	6485	HA	SER	X	431	59.949	26.702	27.190	0.00	0.00
ATOM	6486	CB	SER	X	431	58.823	26.381	25.410	0.00	0.00
ATOM	6487	HB2	SER	X	431	59.624	26.155	24.706	0.00	0.00
ATOM	6488	HB3	SER	X	431	58.556	25.336	25.570	0.00	0.00
ATOM	6489	OG	SER	X	431	57.767	27.073	24.662	0.00	0.00
ATOM	6490	HG	SER	X	431	56.941	26.625	24.860	0.00	0.00
ATOM	6491	C	SER	X	431	59.699	28.552	26.110	0.00	0.00
ATOM	6492	O	SER	X	431	60.834	28.609	25.687	0.00	0.00
ATOM	6493	N	THR	X	432	58.863	29.587	26.219	0.00	0.00
ATOM	6494	H	THR	X	432	57.993	29.396	26.697	0.00	0.00
ATOM	6495	CA	THR	X	432	59.165	31.031	25.895	0.00	0.00
ATOM	6496	HA	THR	X	432	60.100	31.143	25.347	0.00	0.00
ATOM	6497	CB	THR	X	432	58.033	31.478	25.063	0.00	0.00

ATOM	6498	HB	THR	X	432	58.270	32.489	24.731	0.00	0.00
ATOM	6499	CG2	THR	X	432	57.937	30.647	23.721	0.00	0.00
ATOM	6500	HG21	THR	X	432	58.864	30.741	23.155	0.00	0.00
ATOM	6501	HG22	THR	X	432	57.124	30.956	23.065	0.00	0.00
ATOM	6502	HG23	THR	X	432	57.685	29.604	23.910	0.00	0.00
ATOM	6503	OG1	THR	X	432	56.863	31.319	25.918	0.00	0.00
ATOM	6504	HG1	THR	X	432	56.184	31.791	25.430	0.00	0.00
ATOM	6505	C	THR	X	432	59.390	31.906	27.123	0.00	0.00
ATOM	6506	O	THR	X	432	59.825	33.045	26.972	0.00	0.00
ATOM	6507	N	LEU	X	433	59.194	31.398	28.366	0.00	0.00
ATOM	6508	H	LEU	X	433	58.953	30.426	28.498	0.00	0.00
ATOM	6509	CA	LEU	X	433	59.263	32.202	29.628	0.00	0.00
ATOM	6510	HA	LEU	X	433	58.593	33.041	29.441	0.00	0.00
ATOM	6511	CB	LEU	X	433	58.698	31.471	30.903	0.00	0.00
ATOM	6512	HB2	LEU	X	433	57.829	30.886	30.602	0.00	0.00
ATOM	6513	HB3	LEU	X	433	59.404	30.693	31.192	0.00	0.00
ATOM	6514	CG	LEU	X	433	58.268	32.275	32.172	0.00	0.00
ATOM	6515	HG	LEU	X	433	59.079	32.970	32.390	0.00	0.00
ATOM	6516	CD1	LEU	X	433	57.066	33.106	31.883	0.00	0.00
ATOM	6517	HD11	LEU	X	433	56.908	33.810	32.700	0.00	0.00
ATOM	6518	HD12	LEU	X	433	56.158	32.523	31.730	0.00	0.00
ATOM	6519	HD13	LEU	X	433	57.195	33.858	31.104	0.00	0.00
ATOM	6520	CD2	LEU	X	433	58.105	31.375	33.386	0.00	0.00
ATOM	6521	HD21	LEU	X	433	57.552	31.934	34.141	0.00	0.00
ATOM	6522	HD22	LEU	X	433	57.468	30.558	33.045	0.00	0.00
ATOM	6523	HD23	LEU	X	433	59.063	31.019	33.766	0.00	0.00
ATOM	6524	C	LEU	X	433	60.656	32.680	29.990	0.00	0.00
ATOM	6525	O	LEU	X	433	61.595	31.838	29.935	0.00	0.00
ATOM	6526	N	SER	X	434	60.783	33.916	30.316	0.00	0.00
ATOM	6527	H	SER	X	434	59.925	34.441	30.410	0.00	0.00
ATOM	6528	CA	SER	X	434	62.081	34.549	30.617	0.00	0.00
ATOM	6529	HA	SER	X	434	62.885	34.162	29.991	0.00	0.00
ATOM	6530	CB	SER	X	434	62.024	36.072	30.320	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.177	36.445	30.896	0.00	0.00
ATOM	6532	HB3	SER	X	434	62.896	36.569	30.744	0.00	0.00
ATOM	6533	OG	SER	X	434	61.850	36.242	28.939	0.00	0.00
ATOM	6534	HG	SER	X	434	60.952	36.526	28.751	0.00	0.00
ATOM	6535	C	SER	X	434	62.651	34.274	32.067	0.00	0.00
ATOM	6536	O	SER	X	434	63.836	34.473	32.329	0.00	0.00
ATOM	6537	N	TRP	X	435	61.829	33.811	32.955	0.00	0.00
ATOM	6538	H	TRP	X	435	60.872	33.557	32.751	0.00	0.00
ATOM	6539	CA	TRP	X	435	62.207	33.584	34.435	0.00	0.00
ATOM	6540	HA	TRP	X	435	62.858	34.387	34.779	0.00	0.00
ATOM	6541	CB	TRP	X	435	60.930	33.637	35.404	0.00	0.00
ATOM	6542	HB2	TRP	X	435	60.203	32.840	35.248	0.00	0.00
ATOM	6543	HB3	TRP	X	435	61.127	33.454	36.460	0.00	0.00
ATOM	6544	CG	TRP	X	435	60.244	35.024	35.311	0.00	0.00
ATOM	6545	CD1	TRP	X	435	59.230	35.346	34.458	0.00	0.00
ATOM	6546	HD1	TRP	X	435	58.745	34.642	33.798	0.00	0.00
ATOM	6547	NE1	TRP	X	435	58.834	36.655	34.587	0.00	0.00
ATOM	6548	HE1	TRP	X	435	58.133	37.115	34.023	0.00	0.00
ATOM	6549	CE2	TRP	X	435	59.585	37.277	35.567	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	59.618	38.547	36.190	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	58.859	39.236	35.850	0.00	0.00
ATOM	6552	CH2	TRP	X	435	60.485	38.856	37.274	0.00	0.00
ATOM	6553	HH2	TRP	X	435	60.481	39.742	37.892	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	61.494	37.935	37.526	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	62.199	38.053	38.335	0.00	0.00
ATOM	6556	CE3	TRP	X	435	61.500	36.683	36.887	0.00	0.00
ATOM	6557	HE3	TRP	X	435	62.286	35.994	37.156	0.00	0.00
ATOM	6558	CD2	TRP	X	435	60.496	36.259	36.013	0.00	0.00
ATOM	6559	C	TRP	X	435	62.935	32.269	34.672	0.00	0.00
ATOM	6560	O	TRP	X	435	62.779	31.274	33.922	0.00	0.00
ATOM	6561	N	PRO	X	436	63.833	32.235	35.709	0.00	0.00
ATOM	6562	CD	PRO	X	436	63.941	33.211	36.792	0.00	0.00
ATOM	6563	HD2	PRO	X	436	63.263	32.865	37.572	0.00	0.00
ATOM	6564	HD3	PRO	X	436	63.649	34.217	36.494	0.00	0.00

ATOM	6565	CG	PRO	X	436	65.352	33.025	37.328	0.00	0.00
ATOM	6566	HG2	PRO	X	436	65.503	33.467	38.313	0.00	0.00
ATOM	6567	HG3	PRO	X	436	65.955	33.431	36.517	0.00	0.00
ATOM	6568	CB	PRO	X	436	65.354	31.488	37.350	0.00	0.00
ATOM	6569	HB2	PRO	X	436	64.753	31.204	38.214	0.00	0.00
ATOM	6570	HB3	PRO	X	436	66.384	31.132	37.352	0.00	0.00
ATOM	6571	CA	PRO	X	436	64.704	31.108	36.053	0.00	0.00
ATOM	6572	HA	PRO	X	436	65.427	31.004	35.244	0.00	0.00
ATOM	6573	C	PRO	X	436	63.998	29.780	36.176	0.00	0.00
ATOM	6574	O	PRO	X	436	62.867	29.781	36.520	0.00	0.00
ATOM	6575	N	LEU	X	437	64.759	28.673	35.922	0.00	0.00
ATOM	6576	H	LEU	X	437	65.714	28.784	35.612	0.00	0.00
ATOM	6577	CA	LEU	X	437	64.308	27.270	36.173	0.00	0.00
ATOM	6578	HA	LEU	X	437	63.392	27.244	35.583	0.00	0.00
ATOM	6579	CB	LEU	X	437	65.370	26.391	35.547	0.00	0.00
ATOM	6580	HB2	LEU	X	437	65.652	26.794	34.575	0.00	0.00
ATOM	6581	HB3	LEU	X	437	66.219	26.421	36.229	0.00	0.00
ATOM	6582	CG	LEU	X	437	64.880	24.912	35.453	0.00	0.00
ATOM	6583	HG	LEU	X	437	64.386	24.609	36.376	0.00	0.00
ATOM	6584	CD1	LEU	X	437	63.783	24.742	34.298	0.00	0.00
ATOM	6585	HD11	LEU	X	437	63.499	23.692	34.221	0.00	0.00
ATOM	6586	HD12	LEU	X	437	64.202	25.005	33.327	0.00	0.00
ATOM	6587	HD13	LEU	X	437	62.842	25.252	34.506	0.00	0.00
ATOM	6588	CD2	LEU	X	437	65.939	23.809	35.191	0.00	0.00
ATOM	6589	HD21	LEU	X	437	65.490	22.817	35.165	0.00	0.00
ATOM	6590	HD22	LEU	X	437	66.533	23.949	34.288	0.00	0.00
ATOM	6591	HD23	LEU	X	437	66.630	23.806	36.034	0.00	0.00
ATOM	6592	C	LEU	X	437	63.963	27.055	37.663	0.00	0.00
ATOM	6593	O	LEU	X	437	62.883	26.555	38.001	0.00	0.00
ATOM	6594	N	TRP	X	438	64.832	27.505	38.587	0.00	0.00
ATOM	6595	H	TRP	X	438	65.729	27.874	38.304	0.00	0.00
ATOM	6596	CA	TRP	X	438	64.540	27.485	40.113	0.00	0.00
ATOM	6597	HA	TRP	X	438	64.240	26.451	40.281	0.00	0.00
ATOM	6598	CB	TRP	X	438	65.744	27.739	40.909	0.00	0.00
ATOM	6599	HB2	TRP	X	438	65.627	27.538	41.974	0.00	0.00
ATOM	6600	HB3	TRP	X	438	66.499	26.998	40.646	0.00	0.00
ATOM	6601	CG	TRP	X	438	66.426	29.012	40.554	0.00	0.00
ATOM	6602	CD1	TRP	X	438	67.508	29.086	39.681	0.00	0.00
ATOM	6603	HD1	TRP	X	438	68.078	28.298	39.213	0.00	0.00
ATOM	6604	NE1	TRP	X	438	67.819	30.417	39.535	0.00	0.00
ATOM	6605	HE1	TRP	X	438	68.610	30.800	39.037	0.00	0.00
ATOM	6606	CE2	TRP	X	438	66.971	31.238	40.279	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	66.929	32.609	40.376	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	67.575	33.240	39.784	0.00	0.00
ATOM	6609	CH2	TRP	X	438	65.974	33.167	41.212	0.00	0.00
ATOM	6610	HH2	TRP	X	438	65.845	34.239	41.193	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	64.950	32.346	41.846	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	64.133	32.842	42.349	0.00	0.00
ATOM	6613	CE3	TRP	X	438	64.864	30.983	41.554	0.00	0.00
ATOM	6614	HE3	TRP	X	438	64.011	30.385	41.842	0.00	0.00
ATOM	6615	CD2	TRP	X	438	66.014	30.347	40.906	0.00	0.00
ATOM	6616	C	TRP	X	438	63.264	28.250	40.612	0.00	0.00
ATOM	6617	O	TRP	X	438	62.733	27.927	41.624	0.00	0.00
ATOM	6618	N	MET	X	439	62.835	29.214	39.778	0.00	0.00
ATOM	6619	H	MET	X	439	63.324	29.394	38.913	0.00	0.00
ATOM	6620	CA	MET	X	439	61.592	30.014	39.951	0.00	0.00
ATOM	6621	HA	MET	X	439	61.587	30.323	40.996	0.00	0.00
ATOM	6622	CB	MET	X	439	61.701	31.367	39.138	0.00	0.00
ATOM	6623	HB2	MET	X	439	62.757	31.584	38.978	0.00	0.00
ATOM	6624	HB3	MET	X	439	61.247	31.349	38.147	0.00	0.00
ATOM	6625	CG	MET	X	439	60.977	32.496	39.910	0.00	0.00
ATOM	6626	HG2	MET	X	439	60.003	32.026	40.042	0.00	0.00
ATOM	6627	HG3	MET	X	439	61.372	32.593	40.922	0.00	0.00
ATOM	6628	SD	MET	X	439	60.876	34.168	39.303	0.00	0.00
ATOM	6629	CE	MET	X	439	62.515	34.634	39.817	0.00	0.00
ATOM	6630	HE1	MET	X	439	63.253	34.032	39.287	0.00	0.00
ATOM	6631	HE2	MET	X	439	62.742	35.659	39.526	0.00	0.00

ATOM	6632	HE3	MET	X	439	62.615	34.470	40.890	0.00	0.00
ATOM	6633	C	MET	X	439	60.364	29.204	39.637	0.00	0.00
ATOM	6634	O	MET	X	439	59.239	29.503	40.115	0.00	0.00
ATOM	6635	N	GLY	X	440	60.507	28.234	38.818	0.00	0.00
ATOM	6636	H	GLY	X	440	61.469	28.172	38.518	0.00	0.00
ATOM	6637	CA	GLY	X	440	59.502	27.349	38.292	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.894	26.553	37.659	0.00	0.00
ATOM	6639	HA3	GLY	X	440	58.973	26.994	39.176	0.00	0.00
ATOM	6640	C	GLY	X	440	58.491	28.315	37.538	0.00	0.00
ATOM	6641	O	GLY	X	440	58.733	28.795	36.471	0.00	0.00
ATOM	6642	N	VAL	X	441	57.270	28.374	38.095	0.00	0.00
ATOM	6643	H	VAL	X	441	57.292	27.950	39.011	0.00	0.00
ATOM	6644	CA	VAL	X	441	56.155	29.224	37.653	0.00	0.00
ATOM	6645	HA	VAL	X	441	56.346	29.422	36.598	0.00	0.00
ATOM	6646	CB	VAL	X	441	54.773	28.464	37.712	0.00	0.00
ATOM	6647	HB	VAL	X	441	54.335	28.677	38.687	0.00	0.00
ATOM	6648	CG1	VAL	X	441	53.802	29.185	36.727	0.00	0.00
ATOM	6649	HG11	VAL	X	441	52.809	29.091	37.168	0.00	0.00
ATOM	6650	HG12	VAL	X	441	54.192	30.195	36.598	0.00	0.00
ATOM	6651	HG13	VAL	X	441	53.804	28.670	35.767	0.00	0.00
ATOM	6652	CG2	VAL	X	441	54.932	26.932	37.433	0.00	0.00
ATOM	6653	HG21	VAL	X	441	55.581	26.879	36.559	0.00	0.00
ATOM	6654	HG22	VAL	X	441	53.989	26.386	37.416	0.00	0.00
ATOM	6655	HG23	VAL	X	441	55.452	26.595	38.330	0.00	0.00
ATOM	6656	C	VAL	X	441	56.068	30.520	38.535	0.00	0.00
ATOM	6657	O	VAL	X	441	55.681	30.460	39.710	0.00	0.00
ATOM	6658	N	PRO	X	442	56.248	31.709	37.913	0.00	0.00
ATOM	6659	CD	PRO	X	442	56.914	31.813	36.614	0.00	0.00
ATOM	6660	HD2	PRO	X	442	56.427	31.210	35.847	0.00	0.00
ATOM	6661	HD3	PRO	X	442	57.917	31.440	36.820	0.00	0.00
ATOM	6662	CG	PRO	X	442	56.785	33.364	36.436	0.00	0.00
ATOM	6663	HG2	PRO	X	442	55.847	33.665	35.970	0.00	0.00
ATOM	6664	HG3	PRO	X	442	57.640	33.765	35.890	0.00	0.00
ATOM	6665	CB	PRO	X	442	56.762	33.973	37.828	0.00	0.00
ATOM	6666	HB2	PRO	X	442	56.302	34.961	37.820	0.00	0.00
ATOM	6667	HB3	PRO	X	442	57.774	34.008	38.231	0.00	0.00
ATOM	6668	CA	PRO	X	442	56.056	32.963	38.577	0.00	0.00
ATOM	6669	HA	PRO	X	442	56.444	32.889	39.593	0.00	0.00
ATOM	6670	C	PRO	X	442	54.603	33.307	38.673	0.00	0.00
ATOM	6671	O	PRO	X	442	53.840	33.088	37.794	0.00	0.00
ATOM	6672	N	HIP	X	443	54.203	33.956	39.815	0.00	0.00
ATOM	6673	H	HIP	X	443	54.913	34.121	40.514	0.00	0.00
ATOM	6674	CA	HIP	X	443	52.882	34.434	40.211	0.00	0.00
ATOM	6675	HA	HIP	X	443	52.286	33.603	40.589	0.00	0.00
ATOM	6676	CB	HIP	X	443	53.207	35.385	41.296	0.00	0.00
ATOM	6677	HB2	HIP	X	443	53.619	34.778	42.103	0.00	0.00
ATOM	6678	HB3	HIP	X	443	53.989	36.118	41.098	0.00	0.00
ATOM	6679	CG	HIP	X	443	52.131	36.320	41.731	0.00	0.00
ATOM	6680	ND1	HIP	X	443	51.117	35.976	42.531	0.00	0.00
ATOM	6681	HD1	HIP	X	443	50.881	35.031	42.799	0.00	0.00
ATOM	6682	CE1	HIP	X	443	50.351	37.036	42.772	0.00	0.00
ATOM	6683	HE1	HIP	X	443	49.507	36.963	43.441	0.00	0.00
ATOM	6684	NE2	HIP	X	443	50.944	38.115	42.264	0.00	0.00
ATOM	6685	HE2	HIP	X	443	50.572	39.054	42.256	0.00	0.00
ATOM	6686	CD2	HIP	X	443	52.002	37.669	41.478	0.00	0.00
ATOM	6687	HD2	HIP	X	443	52.642	38.241	40.823	0.00	0.00
ATOM	6688	C	HIP	X	443	51.871	35.082	39.162	0.00	0.00
ATOM	6689	O	HIP	X	443	52.178	36.126	38.624	0.00	0.00
ATOM	6690	N	GLY	X	444	50.759	34.447	38.975	0.00	0.00
ATOM	6691	H	GLY	X	444	50.620	33.642	39.569	0.00	0.00
ATOM	6692	CA	GLY	X	444	49.731	34.855	37.979	0.00	0.00
ATOM	6693	HA2	GLY	X	444	48.867	34.201	38.098	0.00	0.00
ATOM	6694	HA3	GLY	X	444	49.238	35.779	38.282	0.00	0.00
ATOM	6695	C	GLY	X	444	50.169	34.974	36.538	0.00	0.00
ATOM	6696	O	GLY	X	444	49.764	35.927	35.864	0.00	0.00
ATOM	6697	N	TYR	X	445	51.000	34.020	36.021	0.00	0.00
ATOM	6698	H	TYR	X	445	51.391	33.376	36.694	0.00	0.00

ATOM	6699	CA	TYR	X	445	51.420	34.034	34.577	0.00	0.00
ATOM	6700	HA	TYR	X	445	51.248	35.000	34.104	0.00	0.00
ATOM	6701	CB	TYR	X	445	52.902	33.746	34.408	0.00	0.00
ATOM	6702	HB2	TYR	X	445	53.365	33.105	35.158	0.00	0.00
ATOM	6703	HB3	TYR	X	445	53.093	33.224	33.470	0.00	0.00
ATOM	6704	CG	TYR	X	445	53.746	35.005	34.373	0.00	0.00
ATOM	6705	CD1	TYR	X	445	54.335	35.576	33.219	0.00	0.00
ATOM	6706	HD1	TYR	X	445	54.146	35.143	32.248	0.00	0.00
ATOM	6707	CE1	TYR	X	445	55.170	36.679	33.307	0.00	0.00
ATOM	6708	HE1	TYR	X	445	55.700	37.024	32.432	0.00	0.00
ATOM	6709	CZ	TYR	X	445	55.368	37.401	34.535	0.00	0.00
ATOM	6710	OH	TYR	X	445	56.236	38.468	34.609	0.00	0.00
ATOM	6711	HH	TYR	X	445	56.698	38.672	33.792	0.00	0.00
ATOM	6712	CE2	TYR	X	445	54.750	36.848	35.627	0.00	0.00
ATOM	6713	HE2	TYR	X	445	54.945	37.157	36.643	0.00	0.00
ATOM	6714	CD2	TYR	X	445	53.864	35.751	35.534	0.00	0.00
ATOM	6715	HD2	TYR	X	445	53.411	35.429	36.460	0.00	0.00
ATOM	6716	C	TYR	X	445	50.624	33.014	33.732	0.00	0.00
ATOM	6717	O	TYR	X	445	50.715	33.063	32.470	0.00	0.00
ATOM	6718	N	GLU	X	446	49.799	32.176	34.329	0.00	0.00
ATOM	6719	H	GLU	X	446	49.722	32.115	35.334	0.00	0.00
ATOM	6720	CA	GLU	X	446	49.114	31.109	33.621	0.00	0.00
ATOM	6721	HA	GLU	X	446	49.836	30.596	32.985	0.00	0.00
ATOM	6722	CB	GLU	X	446	48.584	30.048	34.664	0.00	0.00
ATOM	6723	HB2	GLU	X	446	48.638	29.047	34.236	0.00	0.00
ATOM	6724	HB3	GLU	X	446	49.280	30.003	35.502	0.00	0.00
ATOM	6725	CG	GLU	X	446	47.168	30.201	35.250	0.00	0.00
ATOM	6726	HG2	GLU	X	446	46.505	30.268	34.386	0.00	0.00
ATOM	6727	HG3	GLU	X	446	47.039	29.289	35.832	0.00	0.00
ATOM	6728	CD	GLU	X	446	47.077	31.360	36.308	0.00	0.00
ATOM	6729	OE1	GLU	X	446	47.787	32.364	36.207	0.00	0.00
ATOM	6730	OE2	GLU	X	446	46.227	31.190	37.202	0.00	0.00
ATOM	6731	C	GLU	X	446	47.984	31.738	32.745	0.00	0.00
ATOM	6732	O	GLU	X	446	47.468	31.129	31.773	0.00	0.00
ATOM	6733	N	ILE	X	447	47.588	33.000	33.004	0.00	0.00
ATOM	6734	H	ILE	X	447	48.003	33.495	33.780	0.00	0.00
ATOM	6735	CA	ILE	X	447	46.662	33.785	32.092	0.00	0.00
ATOM	6736	HA	ILE	X	447	45.622	33.459	32.072	0.00	0.00
ATOM	6737	CB	ILE	X	447	46.696	35.224	32.568	0.00	0.00
ATOM	6738	HB	ILE	X	447	46.193	35.857	31.837	0.00	0.00
ATOM	6739	CG2	ILE	X	447	45.902	35.345	33.840	0.00	0.00
ATOM	6740	HG21	ILE	X	447	44.827	35.174	33.777	0.00	0.00
ATOM	6741	HG22	ILE	X	447	46.002	36.325	34.306	0.00	0.00
ATOM	6742	HG23	ILE	X	447	46.229	34.575	34.539	0.00	0.00
ATOM	6743	CG1	ILE	X	447	48.090	35.769	32.748	0.00	0.00
ATOM	6744	HG12	ILE	X	447	48.536	35.400	33.671	0.00	0.00
ATOM	6745	HG13	ILE	X	447	48.813	35.504	31.976	0.00	0.00
ATOM	6746	CD1	ILE	X	447	48.076	37.267	32.685	0.00	0.00
ATOM	6747	HD11	ILE	X	447	47.478	37.533	31.814	0.00	0.00
ATOM	6748	HD12	ILE	X	447	49.036	37.771	32.572	0.00	0.00
ATOM	6749	HD13	ILE	X	447	47.733	37.585	33.669	0.00	0.00
ATOM	6750	C	ILE	X	447	47.035	33.833	30.588	0.00	0.00
ATOM	6751	O	ILE	X	447	46.162	34.154	29.756	0.00	0.00
ATOM	6752	N	GLU	X	448	48.338	33.582	30.301	0.00	0.00
ATOM	6753	H	GLU	X	448	48.921	33.280	31.069	0.00	0.00
ATOM	6754	CA	GLU	X	448	48.839	33.563	28.910	0.00	0.00
ATOM	6755	HA	GLU	X	448	48.685	34.532	28.436	0.00	0.00
ATOM	6756	CB	GLU	X	448	50.356	33.303	28.731	0.00	0.00
ATOM	6757	HB2	GLU	X	448	50.624	32.383	29.250	0.00	0.00
ATOM	6758	HB3	GLU	X	448	50.633	33.222	27.680	0.00	0.00
ATOM	6759	CG	GLU	X	448	51.224	34.495	29.172	0.00	0.00
ATOM	6760	HG2	GLU	X	448	50.796	35.405	28.752	0.00	0.00
ATOM	6761	HG3	GLU	X	448	51.212	34.601	30.257	0.00	0.00
ATOM	6762	CD	GLU	X	448	52.666	34.215	28.657	0.00	0.00
ATOM	6763	OE1	GLU	X	448	53.198	35.115	27.982	0.00	0.00
ATOM	6764	OE2	GLU	X	448	53.323	33.211	29.027	0.00	0.00
ATOM	6765	C	GLU	X	448	48.212	32.416	28.053	0.00	0.00

ATOM	6766	O	GLU	X	448	48.053	32.517	26.846	0.00	0.00
ATOM	6767	N	PHE	X	449	47.836	31.251	28.726	0.00	0.00
ATOM	6768	H	PHE	X	449	48.223	31.235	29.659	0.00	0.00
ATOM	6769	CA	PHE	X	449	47.134	30.179	28.174	0.00	0.00
ATOM	6770	HA	PHE	X	449	47.484	29.915	27.176	0.00	0.00
ATOM	6771	CB	PHE	X	449	47.617	29.002	29.101	0.00	0.00
ATOM	6772	HB2	PHE	X	449	47.361	29.211	30.139	0.00	0.00
ATOM	6773	HB3	PHE	X	449	46.982	28.150	28.859	0.00	0.00
ATOM	6774	CG	PHE	X	449	49.071	28.573	28.959	0.00	0.00
ATOM	6775	CD1	PHE	X	449	50.098	29.142	29.635	0.00	0.00
ATOM	6776	HD1	PHE	X	449	49.954	30.017	30.252	0.00	0.00
ATOM	6777	CE1	PHE	X	449	51.404	28.726	29.485	0.00	0.00
ATOM	6778	HE1	PHE	X	449	52.217	29.229	29.987	0.00	0.00
ATOM	6779	CZ	PHE	X	449	51.735	27.645	28.637	0.00	0.00
ATOM	6780	HZ	PHE	X	449	52.755	27.291	28.616	0.00	0.00
ATOM	6781	CE2	PHE	X	449	50.724	27.040	27.923	0.00	0.00
ATOM	6782	HE2	PHE	X	449	50.955	26.155	27.347	0.00	0.00
ATOM	6783	CD2	PHE	X	449	49.419	27.496	28.058	0.00	0.00
ATOM	6784	HD2	PHE	X	449	48.593	26.974	27.597	0.00	0.00
ATOM	6785	C	PHE	X	449	45.586	30.354	28.074	0.00	0.00
ATOM	6786	O	PHE	X	449	44.922	29.718	27.302	0.00	0.00
ATOM	6787	N	ILE	X	450	45.057	31.320	28.775	0.00	0.00
ATOM	6788	H	ILE	X	450	45.660	31.736	29.470	0.00	0.00
ATOM	6789	CA	ILE	X	450	43.633	31.798	28.716	0.00	0.00
ATOM	6790	HA	ILE	X	450	43.030	30.955	28.380	0.00	0.00
ATOM	6791	CB	ILE	X	450	43.175	32.288	30.091	0.00	0.00
ATOM	6792	HB	ILE	X	450	43.864	33.099	30.328	0.00	0.00
ATOM	6793	CG2	ILE	X	450	41.744	32.838	30.033	0.00	0.00
ATOM	6794	HG21	ILE	X	450	41.761	33.726	29.400	0.00	0.00
ATOM	6795	HG22	ILE	X	450	41.385	33.201	30.996	0.00	0.00
ATOM	6796	HG23	ILE	X	450	41.148	32.140	29.446	0.00	0.00
ATOM	6797	CG1	ILE	X	450	43.323	31.308	31.330	0.00	0.00
ATOM	6798	HG12	ILE	X	450	44.403	31.198	31.422	0.00	0.00
ATOM	6799	HG13	ILE	X	450	42.844	31.705	32.225	0.00	0.00
ATOM	6800	CD1	ILE	X	450	42.644	29.951	31.132	0.00	0.00
ATOM	6801	HD11	ILE	X	450	41.594	30.025	30.849	0.00	0.00
ATOM	6802	HD12	ILE	X	450	42.722	29.508	32.125	0.00	0.00
ATOM	6803	HD13	ILE	X	450	43.065	29.363	30.316	0.00	0.00
ATOM	6804	C	ILE	X	450	43.475	32.878	27.633	0.00	0.00
ATOM	6805	O	ILE	X	450	42.575	32.736	26.810	0.00	0.00
ATOM	6806	N	PHE	X	451	44.332	33.852	27.549	0.00	0.00
ATOM	6807	H	PHE	X	451	44.921	33.930	28.366	0.00	0.00
ATOM	6808	CA	PHE	X	451	44.396	34.874	26.478	0.00	0.00
ATOM	6809	HA	PHE	X	451	43.347	35.035	26.232	0.00	0.00
ATOM	6810	CB	PHE	X	451	44.971	36.123	27.071	0.00	0.00
ATOM	6811	HB2	PHE	X	451	45.959	35.959	27.502	0.00	0.00
ATOM	6812	HB3	PHE	X	451	45.126	36.769	26.206	0.00	0.00
ATOM	6813	CG	PHE	X	451	44.073	36.794	28.092	0.00	0.00
ATOM	6814	CD1	PHE	X	451	44.586	37.080	29.363	0.00	0.00
ATOM	6815	HD1	PHE	X	451	45.639	36.884	29.497	0.00	0.00
ATOM	6816	CE1	PHE	X	451	43.787	37.694	30.409	0.00	0.00
ATOM	6817	HE1	PHE	X	451	44.138	37.924	31.404	0.00	0.00
ATOM	6818	CZ	PHE	X	451	42.453	38.055	30.079	0.00	0.00
ATOM	6819	HZ	PHE	X	451	41.906	38.529	30.880	0.00	0.00
ATOM	6820	CE2	PHE	X	451	41.940	37.802	28.786	0.00	0.00
ATOM	6821	HE2	PHE	X	451	40.943	38.114	28.512	0.00	0.00
ATOM	6822	CD2	PHE	X	451	42.682	37.110	27.755	0.00	0.00
ATOM	6823	HD2	PHE	X	451	42.227	36.849	26.811	0.00	0.00
ATOM	6824	C	PHE	X	451	45.105	34.421	25.191	0.00	0.00
ATOM	6825	O	PHE	X	451	45.075	35.240	24.238	0.00	0.00
ATOM	6826	N	GLY	X	452	45.594	33.124	25.067	0.00	0.00
ATOM	6827	H	GLY	X	452	45.354	32.475	25.803	0.00	0.00
ATOM	6828	CA	GLY	X	452	45.852	32.442	23.828	0.00	0.00
ATOM	6829	HA2	GLY	X	452	45.907	31.382	24.077	0.00	0.00
ATOM	6830	HA3	GLY	X	452	44.976	32.631	23.207	0.00	0.00
ATOM	6831	C	GLY	X	452	47.163	32.768	23.180	0.00	0.00
ATOM	6832	O	GLY	X	452	47.405	32.443	22.021	0.00	0.00

ATOM	6833	N	ILE	X	453	48.116	33.285	23.933	0.00	0.00
ATOM	6834	H	ILE	X	453	47.986	33.182	24.929	0.00	0.00
ATOM	6835	CA	ILE	X	453	49.428	33.730	23.494	0.00	0.00
ATOM	6836	HA	ILE	X	453	49.233	34.365	22.630	0.00	0.00
ATOM	6837	CB	ILE	X	453	50.051	34.586	24.597	0.00	0.00
ATOM	6838	HB	ILE	X	453	50.228	33.936	25.454	0.00	0.00
ATOM	6839	CG2	ILE	X	453	51.353	35.202	24.078	0.00	0.00
ATOM	6840	HG21	ILE	X	453	51.565	36.084	24.683	0.00	0.00
ATOM	6841	HG22	ILE	X	453	51.259	35.454	23.021	0.00	0.00
ATOM	6842	HG23	ILE	X	453	52.138	34.449	24.148	0.00	0.00
ATOM	6843	CG1	ILE	X	453	49.128	35.758	24.985	0.00	0.00
ATOM	6844	HG12	ILE	X	453	48.201	35.277	25.299	0.00	0.00
ATOM	6845	HG13	ILE	X	453	49.520	36.278	25.859	0.00	0.00
ATOM	6846	CD1	ILE	X	453	48.901	36.768	23.859	0.00	0.00
ATOM	6847	HD11	ILE	X	453	48.294	37.635	24.121	0.00	0.00
ATOM	6848	HD12	ILE	X	453	48.320	36.333	23.046	0.00	0.00
ATOM	6849	HD13	ILE	X	453	49.795	37.121	23.344	0.00	0.00
ATOM	6850	C	ILE	X	453	50.326	32.553	23.018	0.00	0.00
ATOM	6851	O	ILE	X	453	50.990	32.782	22.039	0.00	0.00
ATOM	6852	N	PRO	X	454	50.291	31.266	23.508	0.00	0.00
ATOM	6853	CD	PRO	X	454	49.777	30.953	24.805	0.00	0.00
ATOM	6854	HD2	PRO	X	454	48.689	31.006	24.813	0.00	0.00
ATOM	6855	HD3	PRO	X	454	50.289	31.561	25.551	0.00	0.00
ATOM	6856	CG	PRO	X	454	50.236	29.524	25.129	0.00	0.00
ATOM	6857	HG2	PRO	X	454	49.586	29.042	25.859	0.00	0.00
ATOM	6858	HG3	PRO	X	454	51.236	29.641	25.547	0.00	0.00
ATOM	6859	CB	PRO	X	454	50.279	28.869	23.784	0.00	0.00
ATOM	6860	HB2	PRO	X	454	49.254	28.625	23.508	0.00	0.00
ATOM	6861	HB3	PRO	X	454	50.919	27.989	23.723	0.00	0.00
ATOM	6862	CA	PRO	X	454	50.838	30.075	22.899	0.00	0.00
ATOM	6863	HA	PRO	X	454	51.875	30.076	23.234	0.00	0.00
ATOM	6864	C	PRO	X	454	50.510	29.809	21.394	0.00	0.00
ATOM	6865	O	PRO	X	454	51.204	29.098	20.678	0.00	0.00
ATOM	6866	N	LEU	X	455	49.492	30.495	20.907	0.00	0.00
ATOM	6867	H	LEU	X	455	48.966	31.129	21.492	0.00	0.00
ATOM	6868	CA	LEU	X	455	48.973	30.267	19.553	0.00	0.00
ATOM	6869	HA	LEU	X	455	49.146	29.267	19.156	0.00	0.00
ATOM	6870	CB	LEU	X	455	47.451	30.487	19.424	0.00	0.00
ATOM	6871	HB2	LEU	X	455	47.208	31.525	19.651	0.00	0.00
ATOM	6872	HB3	LEU	X	455	47.254	30.169	18.400	0.00	0.00
ATOM	6873	CG	LEU	X	455	46.628	29.529	20.301	0.00	0.00
ATOM	6874	HG	LEU	X	455	47.060	29.401	21.294	0.00	0.00
ATOM	6875	CD1	LEU	X	455	45.183	29.933	20.490	0.00	0.00
ATOM	6876	HD11	LEU	X	455	44.597	29.808	19.580	0.00	0.00
ATOM	6877	HD12	LEU	X	455	45.133	30.964	20.839	0.00	0.00
ATOM	6878	HD13	LEU	X	455	44.766	29.336	21.301	0.00	0.00
ATOM	6879	CD2	LEU	X	455	46.599	28.097	19.685	0.00	0.00
ATOM	6880	HD21	LEU	X	455	45.988	27.419	20.281	0.00	0.00
ATOM	6881	HD22	LEU	X	455	46.131	28.215	18.708	0.00	0.00
ATOM	6882	HD23	LEU	X	455	47.602	27.675	19.740	0.00	0.00
ATOM	6883	C	LEU	X	455	49.653	31.309	18.566	0.00	0.00
ATOM	6884	O	LEU	X	455	49.786	31.024	17.365	0.00	0.00
ATOM	6885	N	ASP	X	456	50.129	32.449	19.099	0.00	0.00
ATOM	6886	H	ASP	X	456	50.140	32.589	20.100	0.00	0.00
ATOM	6887	CA	ASP	X	456	50.668	33.495	18.286	0.00	0.00
ATOM	6888	HA	ASP	X	456	50.020	33.746	17.446	0.00	0.00
ATOM	6889	CB	ASP	X	456	50.685	34.745	19.241	0.00	0.00
ATOM	6890	HB2	ASP	X	456	49.627	34.924	19.433	0.00	0.00
ATOM	6891	HB3	ASP	X	456	51.178	34.508	20.184	0.00	0.00
ATOM	6892	CG	ASP	X	456	51.129	36.051	18.628	0.00	0.00
ATOM	6893	OD1	ASP	X	456	51.524	36.097	17.452	0.00	0.00
ATOM	6894	OD2	ASP	X	456	51.213	37.029	19.374	0.00	0.00
ATOM	6895	C	ASP	X	456	52.156	33.193	17.873	0.00	0.00
ATOM	6896	O	ASP	X	456	52.948	32.917	18.781	0.00	0.00
ATOM	6897	N	PRO	X	457	52.493	33.361	16.547	0.00	0.00
ATOM	6898	CD	PRO	X	457	51.477	33.367	15.457	0.00	0.00
ATOM	6899	HD2	PRO	X	457	50.935	34.303	15.320	0.00	0.00

ATOM	6900	HD3	PRO	X	457	50.850	32.500	15.661	0.00	0.00
ATOM	6901	CG	PRO	X	457	52.241	33.141	14.129	0.00	0.00
ATOM	6902	HG2	PRO	X	457	51.898	33.706	13.263	0.00	0.00
ATOM	6903	HG3	PRO	X	457	52.355	32.064	14.002	0.00	0.00
ATOM	6904	CB	PRO	X	457	53.609	33.784	14.611	0.00	0.00
ATOM	6905	HB2	PRO	X	457	53.668	34.865	14.487	0.00	0.00
ATOM	6906	HB3	PRO	X	457	54.403	33.319	14.026	0.00	0.00
ATOM	6907	CA	PRO	X	457	53.868	33.296	16.031	0.00	0.00
ATOM	6908	HA	PRO	X	457	54.191	32.260	16.131	0.00	0.00
ATOM	6909	C	PRO	X	457	54.872	34.187	16.743	0.00	0.00
ATOM	6910	O	PRO	X	457	56.056	34.085	16.486	0.00	0.00
ATOM	6911	N	SER	X	458	54.426	35.201	17.558	0.00	0.00
ATOM	6912	H	SER	X	458	53.439	35.387	17.663	0.00	0.00
ATOM	6913	CA	SER	X	458	55.462	36.132	18.160	0.00	0.00
ATOM	6914	HA	SER	X	458	56.091	36.530	17.364	0.00	0.00
ATOM	6915	CB	SER	X	458	54.686	37.382	18.789	0.00	0.00
ATOM	6916	HB2	SER	X	458	55.424	38.085	19.176	0.00	0.00
ATOM	6917	HB3	SER	X	458	54.120	37.948	18.050	0.00	0.00
ATOM	6918	OG	SER	X	458	53.840	36.875	19.818	0.00	0.00
ATOM	6919	HG	SER	X	458	52.933	37.180	19.746	0.00	0.00
ATOM	6920	C	SER	X	458	56.493	35.507	19.161	0.00	0.00
ATOM	6921	O	SER	X	458	57.578	36.010	19.258	0.00	0.00
ATOM	6922	N	ARG	X	459	56.214	34.409	19.798	0.00	0.00
ATOM	6923	H	ARG	X	459	55.383	33.924	19.492	0.00	0.00
ATOM	6924	CA	ARG	X	459	57.129	33.513	20.451	0.00	0.00
ATOM	6925	HA	ARG	X	459	58.160	33.593	20.105	0.00	0.00
ATOM	6926	CB	ARG	X	459	57.156	33.775	21.949	0.00	0.00
ATOM	6927	HB2	ARG	X	459	56.131	33.731	22.317	0.00	0.00
ATOM	6928	HB3	ARG	X	459	57.830	33.049	22.403	0.00	0.00
ATOM	6929	CG	ARG	X	459	57.767	35.124	22.332	0.00	0.00
ATOM	6930	HG2	ARG	X	459	58.764	35.250	21.910	0.00	0.00
ATOM	6931	HG3	ARG	X	459	57.169	35.896	21.848	0.00	0.00
ATOM	6932	CD	ARG	X	459	57.828	35.314	23.862	0.00	0.00
ATOM	6933	HD2	ARG	X	459	58.522	34.602	24.309	0.00	0.00
ATOM	6934	HD3	ARG	X	459	58.161	36.348	23.944	0.00	0.00
ATOM	6935	NE	ARG	X	459	56.536	35.238	24.457	0.00	0.00
ATOM	6936	HE	ARG	X	459	55.791	35.690	23.946	0.00	0.00
ATOM	6937	CZ	ARG	X	459	56.206	34.906	25.718	0.00	0.00
ATOM	6938	NH1	ARG	X	459	57.032	34.656	26.677	0.00	0.00
ATOM	6939	HH11	ARG	X	459	57.988	34.471	26.411	0.00	0.00
ATOM	6940	HH12	ARG	X	459	56.752	34.448	27.625	0.00	0.00
ATOM	6941	NH2	ARG	X	459	54.919	35.104	25.957	0.00	0.00
ATOM	6942	HH21	ARG	X	459	54.333	35.394	25.188	0.00	0.00
ATOM	6943	HH22	ARG	X	459	54.452	34.826	26.809	0.00	0.00
ATOM	6944	C	ARG	X	459	56.683	32.118	20.160	0.00	0.00
ATOM	6945	O	ARG	X	459	55.565	31.736	20.248	0.00	0.00
ATOM	6946	N	ASN	X	460	57.679	31.275	19.804	0.00	0.00
ATOM	6947	H	ASN	X	460	58.638	31.586	19.869	0.00	0.00
ATOM	6948	CA	ASN	X	460	57.375	29.894	19.375	0.00	0.00
ATOM	6949	HA	ASN	X	460	56.411	29.926	18.869	0.00	0.00
ATOM	6950	CB	ASN	X	460	58.474	29.411	18.389	0.00	0.00
ATOM	6951	HB2	ASN	X	460	58.590	30.072	17.530	0.00	0.00
ATOM	6952	HB3	ASN	X	460	59.402	29.392	18.960	0.00	0.00
ATOM	6953	CG	ASN	X	460	58.302	28.096	17.701	0.00	0.00
ATOM	6954	OD1	ASN	X	460	59.270	27.383	17.672	0.00	0.00
ATOM	6955	ND2	ASN	X	460	57.186	27.731	17.068	0.00	0.00
ATOM	6956	HD21	ASN	X	460	57.066	26.823	16.642	0.00	0.00
ATOM	6957	HD22	ASN	X	460	56.418	28.386	17.105	0.00	0.00
ATOM	6958	C	ASN	X	460	57.203	28.992	20.599	0.00	0.00
ATOM	6959	O	ASN	X	460	58.140	28.348	21.135	0.00	0.00
ATOM	6960	N	TYR	X	461	56.028	28.911	21.101	0.00	0.00
ATOM	6961	H	TYR	X	461	55.316	29.408	20.585	0.00	0.00
ATOM	6962	CA	TYR	X	461	55.448	27.867	22.051	0.00	0.00
ATOM	6963	HA	TYR	X	461	56.179	27.766	22.853	0.00	0.00
ATOM	6964	CB	TYR	X	461	54.074	28.289	22.654	0.00	0.00
ATOM	6965	HB2	TYR	X	461	53.364	28.578	21.879	0.00	0.00
ATOM	6966	HB3	TYR	X	461	53.577	27.472	23.178	0.00	0.00

ATOM	6967	CG	TYR	X	461	54.132	29.374	23.679	0.00	0.00
ATOM	6968	CD1	TYR	X	461	54.153	30.705	23.252	0.00	0.00
ATOM	6969	HD1	TYR	X	461	54.219	30.922	22.196	0.00	0.00
ATOM	6970	CE1	TYR	X	461	53.993	31.678	24.228	0.00	0.00
ATOM	6971	HE1	TYR	X	461	53.817	32.693	23.904	0.00	0.00
ATOM	6972	CZ	TYR	X	461	53.904	31.389	25.612	0.00	0.00
ATOM	6973	OH	TYR	X	461	53.733	32.408	26.518	0.00	0.00
ATOM	6974	HH	TYR	X	461	53.549	32.121	27.415	0.00	0.00
ATOM	6975	CE2	TYR	X	461	53.916	30.034	25.940	0.00	0.00
ATOM	6976	HE2	TYR	X	461	53.686	29.791	26.967	0.00	0.00
ATOM	6977	CD2	TYR	X	461	54.145	29.030	25.038	0.00	0.00
ATOM	6978	HD2	TYR	X	461	54.088	28.017	25.409	0.00	0.00
ATOM	6979	C	TYR	X	461	55.320	26.500	21.338	0.00	0.00
ATOM	6980	O	TYR	X	461	54.826	26.497	20.217	0.00	0.00
ATOM	6981	N	THR	X	462	55.701	25.373	21.854	0.00	0.00
ATOM	6982	H	THR	X	462	55.899	25.452	22.842	0.00	0.00
ATOM	6983	CA	THR	X	462	55.619	23.982	21.392	0.00	0.00
ATOM	6984	HA	THR	X	462	56.140	23.906	20.437	0.00	0.00
ATOM	6985	CB	THR	X	462	56.439	23.053	22.232	0.00	0.00
ATOM	6986	HB	THR	X	462	56.407	22.017	21.895	0.00	0.00
ATOM	6987	CG2	THR	X	462	57.910	23.431	22.525	0.00	0.00
ATOM	6988	HG21	THR	X	462	58.392	22.555	22.959	0.00	0.00
ATOM	6989	HG22	THR	X	462	57.997	24.285	23.197	0.00	0.00
ATOM	6990	HG23	THR	X	462	58.348	23.666	21.555	0.00	0.00
ATOM	6991	OG1	THR	X	462	55.839	23.045	23.472	0.00	0.00
ATOM	6992	HG1	THR	X	462	55.681	23.971	23.670	0.00	0.00
ATOM	6993	C	THR	X	462	54.163	23.607	21.162	0.00	0.00
ATOM	6994	O	THR	X	462	53.297	24.056	21.930	0.00	0.00
ATOM	6995	N	ALA	X	463	53.964	22.668	20.265	0.00	0.00
ATOM	6996	H	ALA	X	463	54.811	22.382	19.796	0.00	0.00
ATOM	6997	CA	ALA	X	463	52.645	22.141	19.898	0.00	0.00
ATOM	6998	HA	ALA	X	463	52.150	23.084	19.665	0.00	0.00
ATOM	6999	CB	ALA	X	463	52.716	21.287	18.613	0.00	0.00
ATOM	7000	HB1	ALA	X	463	51.766	21.443	18.102	0.00	0.00
ATOM	7001	HB2	ALA	X	463	52.774	20.218	18.816	0.00	0.00
ATOM	7002	HB3	ALA	X	463	53.467	21.669	17.921	0.00	0.00
ATOM	7003	C	ALA	X	463	51.886	21.507	21.074	0.00	0.00
ATOM	7004	O	ALA	X	463	50.697	21.629	21.143	0.00	0.00
ATOM	7005	N	GLU	X	464	52.604	20.890	22.059	0.00	0.00
ATOM	7006	H	GLU	X	464	53.592	20.755	21.897	0.00	0.00
ATOM	7007	CA	GLU	X	464	52.092	20.431	23.359	0.00	0.00
ATOM	7008	HA	GLU	X	464	51.374	19.656	23.090	0.00	0.00
ATOM	7009	CB	GLU	X	464	53.232	19.783	24.162	0.00	0.00
ATOM	7010	HB2	GLU	X	464	53.632	19.149	23.371	0.00	0.00
ATOM	7011	HB3	GLU	X	464	53.881	20.533	24.614	0.00	0.00
ATOM	7012	CG	GLU	X	464	52.793	18.789	25.253	0.00	0.00
ATOM	7013	HG2	GLU	X	464	53.686	18.501	25.807	0.00	0.00
ATOM	7014	HG3	GLU	X	464	52.151	19.267	25.993	0.00	0.00
ATOM	7015	CD	GLU	X	464	52.023	17.567	24.902	0.00	0.00
ATOM	7016	OE1	GLU	X	464	52.445	16.826	24.016	0.00	0.00
ATOM	7017	OE2	GLU	X	464	51.003	17.317	25.482	0.00	0.00
ATOM	7018	C	GLU	X	464	51.480	21.523	24.307	0.00	0.00
ATOM	7019	O	GLU	X	464	50.552	21.224	25.013	0.00	0.00
ATOM	7020	N	GLU	X	465	52.077	22.749	24.253	0.00	0.00
ATOM	7021	H	GLU	X	465	52.864	22.768	23.622	0.00	0.00
ATOM	7022	CA	GLU	X	465	51.665	23.931	24.971	0.00	0.00
ATOM	7023	HA	GLU	X	465	51.249	23.625	25.931	0.00	0.00
ATOM	7024	CB	GLU	X	465	52.849	24.924	25.148	0.00	0.00
ATOM	7025	HB2	GLU	X	465	53.248	25.110	24.151	0.00	0.00
ATOM	7026	HB3	GLU	X	465	52.552	25.850	25.641	0.00	0.00
ATOM	7027	CG	GLU	X	465	54.001	24.333	25.927	0.00	0.00
ATOM	7028	HG2	GLU	X	465	53.654	24.300	26.960	0.00	0.00
ATOM	7029	HG3	GLU	X	465	54.274	23.350	25.544	0.00	0.00
ATOM	7030	CD	GLU	X	465	55.280	25.255	25.827	0.00	0.00
ATOM	7031	OE1	GLU	X	465	55.707	25.399	24.647	0.00	0.00
ATOM	7032	OE2	GLU	X	465	55.877	25.647	26.875	0.00	0.00
ATOM	7033	C	GLU	X	465	50.518	24.587	24.239	0.00	0.00

ATOM	7034	O	GLU	X	465	49.875	25.476	24.821	0.00	0.00
ATOM	7035	N	LYS	X	466	50.251	24.318	22.939	0.00	0.00
ATOM	7036	H	LYS	X	466	50.807	23.668	22.402	0.00	0.00
ATOM	7037	CA	LYS	X	466	49.110	24.851	22.178	0.00	0.00
ATOM	7038	HA	LYS	X	466	48.990	25.882	22.510	0.00	0.00
ATOM	7039	CB	LYS	X	466	49.502	24.824	20.728	0.00	0.00
ATOM	7040	HB2	LYS	X	466	49.801	23.795	20.529	0.00	0.00
ATOM	7041	HB3	LYS	X	466	48.670	25.091	20.076	0.00	0.00
ATOM	7042	CG	LYS	X	466	50.667	25.776	20.441	0.00	0.00
ATOM	7043	HG2	LYS	X	466	50.420	26.807	20.691	0.00	0.00
ATOM	7044	HG3	LYS	X	466	51.597	25.558	20.965	0.00	0.00
ATOM	7045	CD	LYS	X	466	50.979	25.859	18.959	0.00	0.00
ATOM	7046	HD2	LYS	X	466	51.352	24.877	18.666	0.00	0.00
ATOM	7047	HD3	LYS	X	466	50.081	26.033	18.366	0.00	0.00
ATOM	7048	CE	LYS	X	466	51.992	26.976	18.602	0.00	0.00
ATOM	7049	HE2	LYS	X	466	51.586	27.983	18.694	0.00	0.00
ATOM	7050	HE3	LYS	X	466	52.808	26.861	19.314	0.00	0.00
ATOM	7051	NZ	LYS	X	466	52.458	26.790	17.179	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	53.316	27.315	17.084	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	52.604	25.838	16.878	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	51.738	27.186	16.592	0.00	0.00
ATOM	7055	C	LYS	X	466	47.850	24.126	22.403	0.00	0.00
ATOM	7056	O	LYS	X	466	46.826	24.709	22.690	0.00	0.00
ATOM	7057	N	ILE	X	467	48.026	22.822	22.489	0.00	0.00
ATOM	7058	H	ILE	X	467	48.902	22.357	22.302	0.00	0.00
ATOM	7059	CA	ILE	X	467	46.831	21.928	22.880	0.00	0.00
ATOM	7060	HA	ILE	X	467	45.951	22.308	22.362	0.00	0.00
ATOM	7061	CB	ILE	X	467	46.990	20.403	22.609	0.00	0.00
ATOM	7062	HB	ILE	X	467	46.067	19.869	22.835	0.00	0.00
ATOM	7063	CG2	ILE	X	467	47.219	20.232	21.096	0.00	0.00
ATOM	7064	HG21	ILE	X	467	46.604	20.981	20.597	0.00	0.00
ATOM	7065	HG22	ILE	X	467	46.880	19.260	20.737	0.00	0.00
ATOM	7066	HG23	ILE	X	467	48.262	20.335	20.798	0.00	0.00
ATOM	7067	CG1	ILE	X	467	48.176	19.805	23.269	0.00	0.00
ATOM	7068	HG12	ILE	X	467	49.081	20.319	22.944	0.00	0.00
ATOM	7069	HG13	ILE	X	467	48.056	19.942	24.343	0.00	0.00
ATOM	7070	CD1	ILE	X	467	48.287	18.276	23.103	0.00	0.00
ATOM	7071	HD11	ILE	X	467	48.781	18.031	22.162	0.00	0.00
ATOM	7072	HD12	ILE	X	467	47.250	17.941	23.147	0.00	0.00
ATOM	7073	HD13	ILE	X	467	48.882	17.907	23.938	0.00	0.00
ATOM	7074	C	ILE	X	467	46.411	22.113	24.271	0.00	0.00
ATOM	7075	O	ILE	X	467	45.244	21.966	24.591	0.00	0.00
ATOM	7076	N	PHE	X	468	47.377	22.371	25.197	0.00	0.00
ATOM	7077	H	PHE	X	468	48.325	22.257	24.868	0.00	0.00
ATOM	7078	CA	PHE	X	468	47.179	22.810	26.549	0.00	0.00
ATOM	7079	HA	PHE	X	468	46.360	22.186	26.907	0.00	0.00
ATOM	7080	CB	PHE	X	468	48.384	22.715	27.525	0.00	0.00
ATOM	7081	HB2	PHE	X	468	48.895	21.752	27.522	0.00	0.00
ATOM	7082	HB3	PHE	X	468	49.126	23.386	27.092	0.00	0.00
ATOM	7083	CG	PHE	X	468	48.149	23.176	28.929	0.00	0.00
ATOM	7084	CD1	PHE	X	468	47.136	22.473	29.574	0.00	0.00
ATOM	7085	HD1	PHE	X	468	46.665	21.646	29.063	0.00	0.00
ATOM	7086	CE1	PHE	X	468	46.908	22.726	30.981	0.00	0.00
ATOM	7087	HE1	PHE	X	468	46.276	22.086	31.578	0.00	0.00
ATOM	7088	CZ	PHE	X	468	47.712	23.695	31.674	0.00	0.00
ATOM	7089	HZ	PHE	X	468	47.553	23.990	32.701	0.00	0.00
ATOM	7090	CE2	PHE	X	468	48.709	24.382	30.898	0.00	0.00
ATOM	7091	HE2	PHE	X	468	49.321	25.077	31.454	0.00	0.00
ATOM	7092	CD2	PHE	X	468	48.904	24.151	29.584	0.00	0.00
ATOM	7093	HD2	PHE	X	468	49.732	24.705	29.169	0.00	0.00
ATOM	7094	C	PHE	X	468	46.515	24.181	26.681	0.00	0.00
ATOM	7095	O	PHE	X	468	45.721	24.266	27.596	0.00	0.00
ATOM	7096	N	ALA	X	469	46.821	25.250	25.857	0.00	0.00
ATOM	7097	H	ALA	X	469	47.659	25.104	25.313	0.00	0.00
ATOM	7098	CA	ALA	X	469	46.036	26.484	25.878	0.00	0.00
ATOM	7099	HA	ALA	X	469	46.148	26.950	26.857	0.00	0.00
ATOM	7100	CB	ALA	X	469	46.655	27.502	24.944	0.00	0.00

ATOM	7101	HB1	ALA	X	469	46.224	28.484	25.140	0.00	0.00
ATOM	7102	HB2	ALA	X	469	46.401	27.116	23.957	0.00	0.00
ATOM	7103	HB3	ALA	X	469	47.741	27.517	25.035	0.00	0.00
ATOM	7104	C	ALA	X	469	44.528	26.228	25.751	0.00	0.00
ATOM	7105	O	ALA	X	469	43.730	26.529	26.643	0.00	0.00
ATOM	7106	N	GLN	X	470	44.209	25.570	24.674	0.00	0.00
ATOM	7107	H	GLN	X	470	44.983	25.290	24.089	0.00	0.00
ATOM	7108	CA	GLN	X	470	42.817	25.088	24.516	0.00	0.00
ATOM	7109	HA	GLN	X	470	42.188	25.965	24.661	0.00	0.00
ATOM	7110	CB	GLN	X	470	42.654	24.413	23.110	0.00	0.00
ATOM	7111	HB2	GLN	X	470	43.490	23.720	23.008	0.00	0.00
ATOM	7112	HB3	GLN	X	470	41.694	23.899	23.141	0.00	0.00
ATOM	7113	CG	GLN	X	470	42.698	25.270	21.854	0.00	0.00
ATOM	7114	HG2	GLN	X	470	41.737	25.770	21.729	0.00	0.00
ATOM	7115	HG3	GLN	X	470	43.421	26.069	22.017	0.00	0.00
ATOM	7116	CD	GLN	X	470	43.030	24.516	20.624	0.00	0.00
ATOM	7117	OE1	GLN	X	470	44.039	24.589	19.973	0.00	0.00
ATOM	7118	NE2	GLN	X	470	42.141	23.585	20.361	0.00	0.00
ATOM	7119	HE21	GLN	X	470	42.380	22.847	19.714	0.00	0.00
ATOM	7120	HE22	GLN	X	470	41.212	23.514	20.751	0.00	0.00
ATOM	7121	C	GLN	X	470	42.319	24.114	25.664	0.00	0.00
ATOM	7122	O	GLN	X	470	41.099	24.017	25.845	0.00	0.00
ATOM	7123	N	ARG	X	471	43.204	23.434	26.362	0.00	0.00
ATOM	7124	H	ARG	X	471	44.192	23.602	26.239	0.00	0.00
ATOM	7125	CA	ARG	X	471	42.736	22.604	27.479	0.00	0.00
ATOM	7126	HA	ARG	X	471	41.813	22.152	27.115	0.00	0.00
ATOM	7127	CB	ARG	X	471	43.568	21.354	27.559	0.00	0.00
ATOM	7128	HB2	ARG	X	471	43.499	20.697	26.691	0.00	0.00
ATOM	7129	HB3	ARG	X	471	44.627	21.612	27.568	0.00	0.00
ATOM	7130	CG	ARG	X	471	43.394	20.570	28.882	0.00	0.00
ATOM	7131	HG2	ARG	X	471	43.667	21.128	29.777	0.00	0.00
ATOM	7132	HG3	ARG	X	471	42.331	20.404	29.055	0.00	0.00
ATOM	7133	CD	ARG	X	471	44.150	19.305	28.678	0.00	0.00
ATOM	7134	HD2	ARG	X	471	43.913	18.758	27.765	0.00	0.00
ATOM	7135	HD3	ARG	X	471	45.209	19.550	28.600	0.00	0.00
ATOM	7136	NE	ARG	X	471	43.983	18.503	29.903	0.00	0.00
ATOM	7137	HE	ARG	X	471	43.078	18.057	29.946	0.00	0.00
ATOM	7138	CZ	ARG	X	471	44.755	18.643	30.960	0.00	0.00
ATOM	7139	NH1	ARG	X	471	45.903	19.245	30.872	0.00	0.00
ATOM	7140	HH11	ARG	X	471	46.259	19.566	29.982	0.00	0.00
ATOM	7141	HH12	ARG	X	471	46.533	19.207	31.660	0.00	0.00
ATOM	7142	NH2	ARG	X	471	44.363	18.177	32.085	0.00	0.00
ATOM	7143	HH21	ARG	X	471	43.590	17.527	32.077	0.00	0.00
ATOM	7144	HH22	ARG	X	471	44.854	18.470	32.918	0.00	0.00
ATOM	7145	C	ARG	X	471	42.462	23.341	28.725	0.00	0.00
ATOM	7146	O	ARG	X	471	41.472	22.961	29.304	0.00	0.00
ATOM	7147	N	LEU	X	472	43.179	24.397	29.025	0.00	0.00
ATOM	7148	H	LEU	X	472	44.048	24.550	28.534	0.00	0.00
ATOM	7149	CA	LEU	X	472	42.969	25.375	30.086	0.00	0.00
ATOM	7150	HA	LEU	X	472	42.859	24.807	31.010	0.00	0.00
ATOM	7151	CB	LEU	X	472	44.251	26.188	30.372	0.00	0.00
ATOM	7152	HB2	LEU	X	472	45.065	25.462	30.373	0.00	0.00
ATOM	7153	HB3	LEU	X	472	44.332	26.948	29.595	0.00	0.00
ATOM	7154	CG	LEU	X	472	44.280	26.890	31.726	0.00	0.00
ATOM	7155	HG	LEU	X	472	43.319	27.331	31.994	0.00	0.00
ATOM	7156	CD1	LEU	X	472	44.659	25.854	32.860	0.00	0.00
ATOM	7157	HD11	LEU	X	472	45.518	25.267	32.534	0.00	0.00
ATOM	7158	HD12	LEU	X	472	43.792	25.217	33.035	0.00	0.00
ATOM	7159	HD13	LEU	X	472	44.839	26.436	33.764	0.00	0.00
ATOM	7160	CD2	LEU	X	472	45.267	28.008	31.829	0.00	0.00
ATOM	7161	HD21	LEU	X	472	45.053	28.656	32.679	0.00	0.00
ATOM	7162	HD22	LEU	X	472	46.257	27.566	31.940	0.00	0.00
ATOM	7163	HD23	LEU	X	472	45.086	28.566	30.910	0.00	0.00
ATOM	7164	C	LEU	X	472	41.748	26.311	29.736	0.00	0.00
ATOM	7165	O	LEU	X	472	40.910	26.549	30.541	0.00	0.00
ATOM	7166	N	MET	X	473	41.670	26.907	28.526	0.00	0.00
ATOM	7167	H	MET	X	473	42.349	26.586	27.851	0.00	0.00

ATOM	7168	CA	MET	X	473	40.486	27.697	28.075	0.00	0.00
ATOM	7169	HA	MET	X	473	40.395	28.652	28.593	0.00	0.00
ATOM	7170	CB	MET	X	473	40.545	28.040	26.584	0.00	0.00
ATOM	7171	HB2	MET	X	473	40.669	27.127	26.001	0.00	0.00
ATOM	7172	HB3	MET	X	473	39.602	28.496	26.282	0.00	0.00
ATOM	7173	CG	MET	X	473	41.596	28.960	26.148	0.00	0.00
ATOM	7174	HG2	MET	X	473	41.361	29.997	26.390	0.00	0.00
ATOM	7175	HG3	MET	X	473	42.546	28.711	26.621	0.00	0.00
ATOM	7176	SD	MET	X	473	41.907	28.835	24.360	0.00	0.00
ATOM	7177	CE	MET	X	473	43.244	30.071	24.198	0.00	0.00
ATOM	7178	HE1	MET	X	473	43.123	30.818	24.982	0.00	0.00
ATOM	7179	HE2	MET	X	473	44.179	29.555	24.417	0.00	0.00
ATOM	7180	HE3	MET	X	473	43.172	30.549	23.220	0.00	0.00
ATOM	7181	C	MET	X	473	39.131	26.947	28.360	0.00	0.00
ATOM	7182	O	MET	X	473	38.103	27.605	28.625	0.00	0.00
ATOM	7183	N	ARG	X	474	39.026	25.653	28.115	0.00	0.00
ATOM	7184	H	ARG	X	474	39.867	25.094	28.082	0.00	0.00
ATOM	7185	CA	ARG	X	474	37.765	24.891	28.214	0.00	0.00
ATOM	7186	HA	ARG	X	474	37.049	25.445	27.606	0.00	0.00
ATOM	7187	CB	ARG	X	474	37.941	23.503	27.692	0.00	0.00
ATOM	7188	HB2	ARG	X	474	38.473	23.544	26.742	0.00	0.00
ATOM	7189	HB3	ARG	X	474	38.570	22.933	28.376	0.00	0.00
ATOM	7190	CG	ARG	X	474	36.641	22.635	27.385	0.00	0.00
ATOM	7191	HG2	ARG	X	474	37.016	21.635	27.167	0.00	0.00
ATOM	7192	HG3	ARG	X	474	36.024	22.509	28.275	0.00	0.00
ATOM	7193	CD	ARG	X	474	35.756	23.290	26.270	0.00	0.00
ATOM	7194	HD2	ARG	X	474	35.606	24.336	26.538	0.00	0.00
ATOM	7195	HD3	ARG	X	474	36.190	23.153	25.279	0.00	0.00
ATOM	7196	NE	ARG	X	474	34.439	22.637	26.122	0.00	0.00
ATOM	7197	HE	ARG	X	474	34.428	21.710	26.523	0.00	0.00
ATOM	7198	CZ	ARG	X	474	33.517	23.015	25.203	0.00	0.00
ATOM	7199	NH1	ARG	X	474	33.641	24.172	24.629	0.00	0.00
ATOM	7200	HH11	ARG	X	474	34.353	24.857	24.841	0.00	0.00
ATOM	7201	HH12	ARG	X	474	32.909	24.390	23.969	0.00	0.00
ATOM	7202	NH2	ARG	X	474	32.526	22.247	24.859	0.00	0.00
ATOM	7203	HH21	ARG	X	474	32.430	21.366	25.342	0.00	0.00
ATOM	7204	HH22	ARG	X	474	31.989	22.424	24.021	0.00	0.00
ATOM	7205	C	ARG	X	474	37.141	24.744	29.587	0.00	0.00
ATOM	7206	O	ARG	X	474	35.993	25.021	29.701	0.00	0.00
ATOM	7207	N	TYR	X	475	37.830	24.477	30.741	0.00	0.00
ATOM	7208	H	TYR	X	475	38.823	24.298	30.689	0.00	0.00
ATOM	7209	CA	TYR	X	475	37.297	24.495	32.140	0.00	0.00
ATOM	7210	HA	TYR	X	475	36.473	23.799	32.298	0.00	0.00
ATOM	7211	CB	TYR	X	475	38.398	24.095	33.092	0.00	0.00
ATOM	7212	HB2	TYR	X	475	39.083	24.943	33.111	0.00	0.00
ATOM	7213	HB3	TYR	X	475	38.214	24.099	34.166	0.00	0.00
ATOM	7214	CG	TYR	X	475	39.217	22.858	32.739	0.00	0.00
ATOM	7215	CD1	TYR	X	475	38.713	21.609	32.932	0.00	0.00
ATOM	7216	HD1	TYR	X	475	37.659	21.410	33.063	0.00	0.00
ATOM	7217	CE1	TYR	X	475	39.516	20.465	32.646	0.00	0.00
ATOM	7218	HE1	TYR	X	475	39.093	19.476	32.738	0.00	0.00
ATOM	7219	CZ	TYR	X	475	40.877	20.687	32.242	0.00	0.00
ATOM	7220	OH	TYR	X	475	41.602	19.616	31.862	0.00	0.00
ATOM	7221	HH	TYR	X	475	41.075	18.814	31.839	0.00	0.00
ATOM	7222	CE2	TYR	X	475	41.360	21.968	32.076	0.00	0.00
ATOM	7223	HE2	TYR	X	475	42.375	22.173	31.770	0.00	0.00
ATOM	7224	CD2	TYR	X	475	40.545	23.110	32.276	0.00	0.00
ATOM	7225	HD2	TYR	X	475	40.868	24.135	32.175	0.00	0.00
ATOM	7226	C	TYR	X	475	36.833	26.003	32.514	0.00	0.00
ATOM	7227	O	TYR	X	475	35.740	26.168	33.071	0.00	0.00
ATOM	7228	N	TRP	X	476	37.555	27.007	32.097	0.00	0.00
ATOM	7229	H	TRP	X	476	38.400	26.997	31.544	0.00	0.00
ATOM	7230	CA	TRP	X	476	37.183	28.437	32.368	0.00	0.00
ATOM	7231	HA	TRP	X	476	36.991	28.492	33.439	0.00	0.00
ATOM	7232	CB	TRP	X	476	38.294	29.389	31.900	0.00	0.00
ATOM	7233	HB2	TRP	X	476	38.732	29.024	30.971	0.00	0.00
ATOM	7234	HB3	TRP	X	476	37.736	30.263	31.566	0.00	0.00

ATOM	7235	CG	TRP	X	476	39.377	29.800	32.867	0.00	0.00
ATOM	7236	CD1	TRP	X	476	39.680	31.057	33.234	0.00	0.00
ATOM	7237	HD1	TRP	X	476	39.301	31.979	32.818	0.00	0.00
ATOM	7238	NE1	TRP	X	476	40.653	30.949	34.236	0.00	0.00
ATOM	7239	HE1	TRP	X	476	41.043	31.733	34.740	0.00	0.00
ATOM	7240	CE2	TRP	X	476	40.803	29.644	34.725	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	41.527	29.056	35.778	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	42.070	29.688	36.464	0.00	0.00
ATOM	7243	CH2	TRP	X	476	41.627	27.675	35.826	0.00	0.00
ATOM	7244	HH2	TRP	X	476	42.216	27.224	36.611	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	41.036	26.873	34.902	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	40.909	25.805	34.997	0.00	0.00
ATOM	7247	CE3	TRP	X	476	40.328	27.437	33.795	0.00	0.00
ATOM	7248	HE3	TRP	X	476	39.879	26.798	33.048	0.00	0.00
ATOM	7249	CD2	TRP	X	476	40.137	28.869	33.710	0.00	0.00
ATOM	7250	C	TRP	X	476	35.818	28.726	31.709	0.00	0.00
ATOM	7251	O	TRP	X	476	34.882	29.389	32.193	0.00	0.00
ATOM	7252	N	ALA	X	477	35.740	28.286	30.426	0.00	0.00
ATOM	7253	H	ALA	X	477	36.421	27.781	29.876	0.00	0.00
ATOM	7254	CA	ALA	X	477	34.515	28.645	29.687	0.00	0.00
ATOM	7255	HA	ALA	X	477	34.248	29.695	29.812	0.00	0.00
ATOM	7256	CB	ALA	X	477	34.813	28.391	28.157	0.00	0.00
ATOM	7257	HB1	ALA	X	477	35.671	28.977	27.825	0.00	0.00
ATOM	7258	HB2	ALA	X	477	33.944	28.706	27.581	0.00	0.00
ATOM	7259	HB3	ALA	X	477	34.972	27.324	28.006	0.00	0.00
ATOM	7260	C	ALA	X	477	33.336	27.806	30.043	0.00	0.00
ATOM	7261	O	ALA	X	477	32.156	28.289	30.112	0.00	0.00
ATOM	7262	N	ASN	X	478	33.613	26.565	30.494	0.00	0.00
ATOM	7263	H	ASN	X	478	34.539	26.172	30.590	0.00	0.00
ATOM	7264	CA	ASN	X	478	32.464	25.749	31.040	0.00	0.00
ATOM	7265	HA	ASN	X	478	31.616	25.702	30.356	0.00	0.00
ATOM	7266	CB	ASN	X	478	33.005	24.270	31.227	0.00	0.00
ATOM	7267	HB2	ASN	X	478	34.048	24.268	31.542	0.00	0.00
ATOM	7268	HB3	ASN	X	478	32.461	23.722	31.997	0.00	0.00
ATOM	7269	CG	ASN	X	478	33.008	23.377	29.953	0.00	0.00
ATOM	7270	OD1	ASN	X	478	32.566	23.794	28.911	0.00	0.00
ATOM	7271	ND2	ASN	X	478	33.359	22.079	30.038	0.00	0.00
ATOM	7272	HD21	ASN	X	478	33.325	21.675	29.113	0.00	0.00
ATOM	7273	HD22	ASN	X	478	33.900	21.695	30.799	0.00	0.00
ATOM	7274	C	ASN	X	478	31.833	26.297	32.333	0.00	0.00
ATOM	7275	O	ASN	X	478	30.669	26.242	32.559	0.00	0.00
ATOM	7276	N	PHE	X	479	32.622	26.930	33.187	0.00	0.00
ATOM	7277	H	PHE	X	479	33.598	27.010	32.937	0.00	0.00
ATOM	7278	CA	PHE	X	479	32.171	27.564	34.406	0.00	0.00
ATOM	7279	HA	PHE	X	479	31.482	26.891	34.917	0.00	0.00
ATOM	7280	CB	PHE	X	479	33.352	27.904	35.336	0.00	0.00
ATOM	7281	HB2	PHE	X	479	33.795	26.971	35.682	0.00	0.00
ATOM	7282	HB3	PHE	X	479	34.155	28.230	34.676	0.00	0.00
ATOM	7283	CG	PHE	X	479	33.056	28.760	36.526	0.00	0.00
ATOM	7284	CD1	PHE	X	479	32.327	28.212	37.610	0.00	0.00
ATOM	7285	HD1	PHE	X	479	31.870	27.261	37.380	0.00	0.00
ATOM	7286	CE1	PHE	X	479	31.888	29.017	38.707	0.00	0.00
ATOM	7287	HE1	PHE	X	479	31.042	28.746	39.320	0.00	0.00
ATOM	7288	CZ	PHE	X	479	32.419	30.274	38.893	0.00	0.00
ATOM	7289	HZ	PHE	X	479	32.053	30.903	39.691	0.00	0.00
ATOM	7290	CE2	PHE	X	479	33.238	30.791	37.870	0.00	0.00
ATOM	7291	HE2	PHE	X	479	33.505	31.838	37.877	0.00	0.00
ATOM	7292	CD2	PHE	X	479	33.598	30.077	36.719	0.00	0.00
ATOM	7293	HD2	PHE	X	479	34.226	30.582	36.000	0.00	0.00
ATOM	7294	C	PHE	X	479	31.258	28.793	34.194	0.00	0.00
ATOM	7295	O	PHE	X	479	30.161	28.936	34.713	0.00	0.00
ATOM	7296	N	ALA	X	480	31.655	29.600	33.137	0.00	0.00
ATOM	7297	H	ALA	X	480	32.500	29.441	32.608	0.00	0.00
ATOM	7298	CA	ALA	X	480	30.906	30.745	32.681	0.00	0.00
ATOM	7299	HA	ALA	X	480	30.726	31.312	33.594	0.00	0.00
ATOM	7300	CB	ALA	X	480	31.806	31.611	31.798	0.00	0.00
ATOM	7301	HB1	ALA	X	480	31.361	32.548	31.464	0.00	0.00

ATOM	7302	HB2	ALA	X	480	32.125	31.045	30.923	0.00	0.00
ATOM	7303	HB3	ALA	X	480	32.668	31.911	32.394	0.00	0.00
ATOM	7304	C	ALA	X	480	29.539	30.474	32.102	0.00	0.00
ATOM	7305	O	ALA	X	480	28.578	31.062	32.617	0.00	0.00
ATOM	7306	N	ARG	X	481	29.400	29.399	31.318	0.00	0.00
ATOM	7307	H	ARG	X	481	30.191	29.210	30.719	0.00	0.00
ATOM	7308	CA	ARG	X	481	28.143	28.737	30.854	0.00	0.00
ATOM	7309	HA	ARG	X	481	27.542	29.497	30.356	0.00	0.00
ATOM	7310	CB	ARG	X	481	28.590	27.635	29.879	0.00	0.00
ATOM	7311	HB2	ARG	X	481	29.355	27.005	30.333	0.00	0.00
ATOM	7312	HB3	ARG	X	481	27.733	27.004	29.647	0.00	0.00
ATOM	7313	CG	ARG	X	481	29.257	28.070	28.587	0.00	0.00
ATOM	7314	HG2	ARG	X	481	28.502	28.663	28.070	0.00	0.00
ATOM	7315	HG3	ARG	X	481	30.152	28.675	28.735	0.00	0.00
ATOM	7316	CD	ARG	X	481	29.557	26.913	27.674	0.00	0.00
ATOM	7317	HD2	ARG	X	481	29.980	26.073	28.225	0.00	0.00
ATOM	7318	HD3	ARG	X	481	28.639	26.542	27.219	0.00	0.00
ATOM	7319	NE	ARG	X	481	30.448	27.368	26.678	0.00	0.00
ATOM	7320	HE	ARG	X	481	30.038	28.002	26.007	0.00	0.00
ATOM	7321	CZ	ARG	X	481	31.667	26.984	26.515	0.00	0.00
ATOM	7322	NH1	ARG	X	481	32.319	26.148	27.191	0.00	0.00
ATOM	7323	HH11	ARG	X	481	31.939	25.574	27.931	0.00	0.00
ATOM	7324	HH12	ARG	X	481	33.220	25.959	26.775	0.00	0.00
ATOM	7325	NH2	ARG	X	481	32.341	27.594	25.550	0.00	0.00
ATOM	7326	HH21	ARG	X	481	31.959	28.373	25.032	0.00	0.00
ATOM	7327	HH22	ARG	X	481	33.300	27.309	25.411	0.00	0.00
ATOM	7328	C	ARG	X	481	27.327	28.203	32.054	0.00	0.00
ATOM	7329	O	ARG	X	481	26.155	28.621	32.280	0.00	0.00
ATOM	7330	N	THR	X	482	27.904	27.245	32.826	0.00	0.00
ATOM	7331	H	THR	X	482	28.878	27.067	32.623	0.00	0.00
ATOM	7332	CA	THR	X	482	27.128	26.204	33.579	0.00	0.00
ATOM	7333	HA	THR	X	482	26.060	26.313	33.392	0.00	0.00
ATOM	7334	CB	THR	X	482	27.465	24.766	33.035	0.00	0.00
ATOM	7335	HB	THR	X	482	28.535	24.650	33.206	0.00	0.00
ATOM	7336	CG2	THR	X	482	26.922	23.545	33.740	0.00	0.00
ATOM	7337	HG21	THR	X	482	25.843	23.611	33.880	0.00	0.00
ATOM	7338	HG22	THR	X	482	27.267	23.513	34.774	0.00	0.00
ATOM	7339	HG23	THR	X	482	27.084	22.619	33.189	0.00	0.00
ATOM	7340	OG1	THR	X	482	27.051	24.650	31.734	0.00	0.00
ATOM	7341	HG1	THR	X	482	26.094	24.719	31.727	0.00	0.00
ATOM	7342	C	THR	X	482	27.214	26.223	35.153	0.00	0.00
ATOM	7343	O	THR	X	482	26.508	25.434	35.849	0.00	0.00
ATOM	7344	N	GLY	X	483	28.187	27.022	35.627	0.00	0.00
ATOM	7345	H	GLY	X	483	28.693	27.589	34.961	0.00	0.00
ATOM	7346	CA	GLY	X	483	28.654	27.070	37.062	0.00	0.00
ATOM	7347	HA2	GLY	X	483	29.191	28.011	37.180	0.00	0.00
ATOM	7348	HA3	GLY	X	483	27.809	27.183	37.741	0.00	0.00
ATOM	7349	C	GLY	X	483	29.515	25.928	37.401	0.00	0.00
ATOM	7350	O	GLY	X	483	29.514	25.441	38.544	0.00	0.00
ATOM	7351	N	ASP	X	484	30.140	25.215	36.425	0.00	0.00
ATOM	7352	H	ASP	X	484	29.978	25.491	35.467	0.00	0.00
ATOM	7353	CA	ASP	X	484	30.824	23.937	36.533	0.00	0.00
ATOM	7354	HA	ASP	X	484	31.321	24.032	37.499	0.00	0.00
ATOM	7355	CB	ASP	X	484	29.754	22.869	36.586	0.00	0.00
ATOM	7356	HB2	ASP	X	484	28.941	23.131	37.262	0.00	0.00
ATOM	7357	HB3	ASP	X	484	29.320	22.763	35.592	0.00	0.00
ATOM	7358	CG	ASP	X	484	30.128	21.479	37.110	0.00	0.00
ATOM	7359	OD1	ASP	X	484	29.191	20.611	37.295	0.00	0.00
ATOM	7360	OD2	ASP	X	484	31.362	21.233	37.305	0.00	0.00
ATOM	7361	C	ASP	X	484	31.900	23.781	35.492	0.00	0.00
ATOM	7362	O	ASP	X	484	31.540	23.944	34.310	0.00	0.00
ATOM	7363	N	PRO	X	485	33.151	23.328	35.784	0.00	0.00
ATOM	7364	CD	PRO	X	485	33.796	23.420	37.084	0.00	0.00
ATOM	7365	HD2	PRO	X	485	33.395	22.749	37.843	0.00	0.00
ATOM	7366	HD3	PRO	X	485	33.712	24.456	37.412	0.00	0.00
ATOM	7367	CG	PRO	X	485	35.245	23.018	36.842	0.00	0.00
ATOM	7368	HG2	PRO	X	485	35.304	21.931	36.804	0.00	0.00

ATOM	7369	HG3	PRO	X	485	35.873	23.491	37.597	0.00	0.00
ATOM	7370	CB	PRO	X	485	35.466	23.540	35.436	0.00	0.00
ATOM	7371	HB2	PRO	X	485	36.370	23.233	34.910	0.00	0.00
ATOM	7372	HB3	PRO	X	485	35.532	24.628	35.478	0.00	0.00
ATOM	7373	CA	PRO	X	485	34.133	23.240	34.755	0.00	0.00
ATOM	7374	HA	PRO	X	485	34.012	24.029	34.013	0.00	0.00
ATOM	7375	C	PRO	X	485	34.125	21.793	34.122	0.00	0.00
ATOM	7376	O	PRO	X	485	34.840	21.566	33.155	0.00	0.00
ATOM	7377	N	ASN	X	486	33.277	20.874	34.599	0.00	0.00
ATOM	7378	H	ASN	X	486	32.651	21.205	35.319	0.00	0.00
ATOM	7379	CA	ASN	X	486	33.170	19.407	34.183	0.00	0.00
ATOM	7380	HA	ASN	X	486	34.100	18.847	34.285	0.00	0.00
ATOM	7381	CB	ASN	X	486	32.236	18.671	35.171	0.00	0.00
ATOM	7382	HB2	ASN	X	486	32.434	18.886	36.221	0.00	0.00
ATOM	7383	HB3	ASN	X	486	31.242	19.112	35.095	0.00	0.00
ATOM	7384	CG	ASN	X	486	31.988	17.235	34.870	0.00	0.00
ATOM	7385	OD1	ASN	X	486	32.972	16.488	35.042	0.00	0.00
ATOM	7386	ND2	ASN	X	486	30.877	16.682	34.361	0.00	0.00
ATOM	7387	HD21	ASN	X	486	30.943	15.706	34.109	0.00	0.00
ATOM	7388	HD22	ASN	X	486	30.088	17.217	34.028	0.00	0.00
ATOM	7389	C	ASN	X	486	32.713	19.312	32.756	0.00	0.00
ATOM	7390	O	ASN	X	486	31.562	19.617	32.486	0.00	0.00
ATOM	7391	N	GLU	X	487	33.561	18.851	31.797	0.00	0.00
ATOM	7392	H	GLU	X	487	34.523	18.790	32.098	0.00	0.00
ATOM	7393	CA	GLU	X	487	33.115	18.391	30.490	0.00	0.00
ATOM	7394	HA	GLU	X	487	32.600	19.257	30.075	0.00	0.00
ATOM	7395	CB	GLU	X	487	34.286	18.008	29.519	0.00	0.00
ATOM	7396	HB2	GLU	X	487	34.974	17.415	30.122	0.00	0.00
ATOM	7397	HB3	GLU	X	487	33.936	17.382	28.699	0.00	0.00
ATOM	7398	CG	GLU	X	487	35.106	19.182	29.052	0.00	0.00
ATOM	7399	HG2	GLU	X	487	35.189	19.929	29.841	0.00	0.00
ATOM	7400	HG3	GLU	X	487	36.109	18.862	28.768	0.00	0.00
ATOM	7401	CD	GLU	X	487	34.484	19.821	27.774	0.00	0.00
ATOM	7402	OE1	GLU	X	487	35.041	19.644	26.642	0.00	0.00
ATOM	7403	OE2	GLU	X	487	33.454	20.501	27.824	0.00	0.00
ATOM	7404	C	GLU	X	487	32.193	17.147	30.635	0.00	0.00
ATOM	7405	O	GLU	X	487	32.648	15.984	30.876	0.00	0.00
ATOM	7406	N	PRO	X	488	30.864	17.247	30.340	0.00	0.00
ATOM	7407	CD	PRO	X	488	30.261	18.446	29.723	0.00	0.00
ATOM	7408	HD2	PRO	X	488	30.764	18.663	28.781	0.00	0.00
ATOM	7409	HD3	PRO	X	488	30.371	19.317	30.369	0.00	0.00
ATOM	7410	CG	PRO	X	488	28.750	18.071	29.650	0.00	0.00
ATOM	7411	HG2	PRO	X	488	28.563	17.732	28.631	0.00	0.00
ATOM	7412	HG3	PRO	X	488	28.149	18.963	29.824	0.00	0.00
ATOM	7413	CB	PRO	X	488	28.630	16.934	30.663	0.00	0.00
ATOM	7414	HB2	PRO	X	488	27.751	16.315	30.484	0.00	0.00
ATOM	7415	HB3	PRO	X	488	28.577	17.416	31.639	0.00	0.00
ATOM	7416	CA	PRO	X	488	29.883	16.158	30.549	0.00	0.00
ATOM	7417	HA	PRO	X	488	29.972	15.629	31.498	0.00	0.00
ATOM	7418	C	PRO	X	488	29.749	15.128	29.381	0.00	0.00
ATOM	7419	O	PRO	X	488	28.933	14.178	29.430	0.00	0.00
ATOM	7420	N	ARG	X	489	30.482	15.203	28.307	0.00	0.00
ATOM	7421	H	ARG	X	489	31.281	15.818	28.364	0.00	0.00
ATOM	7422	CA	ARG	X	489	30.276	14.607	27.023	0.00	0.00
ATOM	7423	HA	ARG	X	489	29.213	14.390	26.924	0.00	0.00
ATOM	7424	CB	ARG	X	489	30.623	15.621	25.851	0.00	0.00
ATOM	7425	HB2	ARG	X	489	30.302	15.130	24.933	0.00	0.00
ATOM	7426	HB3	ARG	X	489	29.932	16.449	26.008	0.00	0.00
ATOM	7427	CG	ARG	X	489	32.080	16.087	25.725	0.00	0.00
ATOM	7428	HG2	ARG	X	489	32.537	16.306	26.690	0.00	0.00
ATOM	7429	HG3	ARG	X	489	32.654	15.258	25.309	0.00	0.00
ATOM	7430	CD	ARG	X	489	32.187	17.307	24.761	0.00	0.00
ATOM	7431	HD2	ARG	X	489	31.768	17.065	23.784	0.00	0.00
ATOM	7432	HD3	ARG	X	489	31.540	18.111	25.110	0.00	0.00
ATOM	7433	NE	ARG	X	489	33.480	17.976	24.835	0.00	0.00
ATOM	7434	HE	ARG	X	489	33.766	18.508	25.644	0.00	0.00
ATOM	7435	CZ	ARG	X	489	34.275	18.194	23.777	0.00	0.00

ATOM	7436	NH1	ARG	X	489	35.375	18.901	24.023	0.00	0.00
ATOM	7437	HH11	ARG	X	489	35.536	19.313	24.931	0.00	0.00
ATOM	7438	HH12	ARG	X	489	36.032	19.104	23.283	0.00	0.00
ATOM	7439	NH2	ARG	X	489	34.059	17.710	22.556	0.00	0.00
ATOM	7440	HH21	ARG	X	489	33.203	17.265	22.257	0.00	0.00
ATOM	7441	HH22	ARG	X	489	34.646	17.989	21.783	0.00	0.00
ATOM	7442	C	ARG	X	489	31.011	13.303	26.826	0.00	0.00
ATOM	7443	O	ARG	X	489	31.444	12.906	25.700	0.00	0.00
ATOM	7444	N	ASP	X	490	31.347	12.642	27.941	0.00	0.00
ATOM	7445	H	ASP	X	490	31.091	13.076	28.816	0.00	0.00
ATOM	7446	CA	ASP	X	490	31.728	11.177	28.083	0.00	0.00
ATOM	7447	HA	ASP	X	490	31.414	10.809	29.060	0.00	0.00
ATOM	7448	CB	ASP	X	490	30.940	10.225	27.175	0.00	0.00
ATOM	7449	HB2	ASP	X	490	29.900	10.538	27.086	0.00	0.00
ATOM	7450	HB3	ASP	X	490	31.296	10.259	26.146	0.00	0.00
ATOM	7451	CG	ASP	X	490	30.847	8.828	27.764	0.00	0.00
ATOM	7452	OD1	ASP	X	490	30.821	7.822	27.003	0.00	0.00
ATOM	7453	OD2	ASP	X	490	30.792	8.720	28.977	0.00	0.00
ATOM	7454	C	ASP	X	490	33.239	10.931	27.951	0.00	0.00
ATOM	7455	O	ASP	X	490	33.618	9.834	27.549	0.00	0.00
ATOM	7456	N	PRO	X	491	34.104	11.909	28.265	0.00	0.00
ATOM	7457	CD	PRO	X	491	33.983	13.180	28.960	0.00	0.00
ATOM	7458	HD2	PRO	X	491	33.568	13.018	29.955	0.00	0.00
ATOM	7459	HD3	PRO	X	491	33.420	13.845	28.306	0.00	0.00
ATOM	7460	CG	PRO	X	491	35.362	13.822	29.280	0.00	0.00
ATOM	7461	HG2	PRO	X	491	35.646	13.481	30.275	0.00	0.00
ATOM	7462	HG3	PRO	X	491	35.382	14.910	29.217	0.00	0.00
ATOM	7463	CB	PRO	X	491	36.224	13.145	28.201	0.00	0.00
ATOM	7464	HB2	PRO	X	491	37.262	13.111	28.532	0.00	0.00
ATOM	7465	HB3	PRO	X	491	36.054	13.731	27.298	0.00	0.00
ATOM	7466	CA	PRO	X	491	35.553	11.753	28.001	0.00	0.00
ATOM	7467	HA	PRO	X	491	35.731	11.536	26.948	0.00	0.00
ATOM	7468	C	PRO	X	491	36.239	10.754	28.948	0.00	0.00
ATOM	7469	O	PRO	X	491	35.732	10.440	30.062	0.00	0.00
ATOM	7470	N	LYS	X	492	37.443	10.155	28.532	0.00	0.00
ATOM	7471	H	LYS	X	492	37.694	10.346	27.573	0.00	0.00
ATOM	7472	CA	LYS	X	492	38.217	9.346	29.530	0.00	0.00
ATOM	7473	HA	LYS	X	492	37.606	8.984	30.357	0.00	0.00
ATOM	7474	CB	LYS	X	492	38.983	8.198	28.856	0.00	0.00
ATOM	7475	HB2	LYS	X	492	39.740	8.654	28.217	0.00	0.00
ATOM	7476	HB3	LYS	X	492	39.389	7.574	29.652	0.00	0.00
ATOM	7477	CG	LYS	X	492	37.988	7.248	28.082	0.00	0.00
ATOM	7478	HG2	LYS	X	492	37.919	7.700	27.092	0.00	0.00
ATOM	7479	HG3	LYS	X	492	38.453	6.264	28.026	0.00	0.00
ATOM	7480	CD	LYS	X	492	36.527	6.968	28.679	0.00	0.00
ATOM	7481	HD2	LYS	X	492	35.970	7.902	28.751	0.00	0.00
ATOM	7482	HD3	LYS	X	492	35.935	6.458	27.919	0.00	0.00
ATOM	7483	CE	LYS	X	492	36.557	6.272	30.106	0.00	0.00
ATOM	7484	HE2	LYS	X	492	37.260	5.440	30.071	0.00	0.00
ATOM	7485	HE3	LYS	X	492	37.024	6.994	30.776	0.00	0.00
ATOM	7486	NZ	LYS	X	492	35.179	5.996	30.489	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	35.055	6.025	31.491	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	34.486	6.679	30.219	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	34.839	5.141	30.072	0.00	0.00
ATOM	7490	C	LYS	X	492	39.303	10.176	30.235	0.00	0.00
ATOM	7491	O	LYS	X	492	39.745	9.867	31.338	0.00	0.00
ATOM	7492	N	ALA	X	493	39.651	11.383	29.714	0.00	0.00
ATOM	7493	H	ALA	X	493	39.484	11.561	28.734	0.00	0.00
ATOM	7494	CA	ALA	X	493	40.461	12.428	30.336	0.00	0.00
ATOM	7495	HA	ALA	X	493	41.451	12.020	30.542	0.00	0.00
ATOM	7496	CB	ALA	X	493	40.611	13.631	29.476	0.00	0.00
ATOM	7497	HB1	ALA	X	493	41.205	13.308	28.621	0.00	0.00
ATOM	7498	HB2	ALA	X	493	41.160	14.408	30.008	0.00	0.00
ATOM	7499	HB3	ALA	X	493	39.737	14.157	29.093	0.00	0.00
ATOM	7500	C	ALA	X	493	39.736	12.861	31.557	0.00	0.00
ATOM	7501	O	ALA	X	493	38.566	13.209	31.430	0.00	0.00
ATOM	7502	N	PRO	X	494	40.416	12.796	32.733	0.00	0.00

ATOM	7503	CD	PRO	X	494	41.753	12.317	32.962	0.00	0.00
ATOM	7504	HD2	PRO	X	494	42.420	12.776	32.232	0.00	0.00
ATOM	7505	HD3	PRO	X	494	41.791	11.228	32.931	0.00	0.00
ATOM	7506	CG	PRO	X	494	42.138	12.727	34.360	0.00	0.00
ATOM	7507	HG2	PRO	X	494	42.568	13.708	34.558	0.00	0.00
ATOM	7508	HG3	PRO	X	494	42.821	12.116	34.950	0.00	0.00
ATOM	7509	CB	PRO	X	494	40.772	12.678	35.067	0.00	0.00
ATOM	7510	HB2	PRO	X	494	40.635	13.269	35.973	0.00	0.00
ATOM	7511	HB3	PRO	X	494	40.682	11.630	35.353	0.00	0.00
ATOM	7512	CA	PRO	X	494	39.773	13.037	34.024	0.00	0.00
ATOM	7513	HA	PRO	X	494	38.942	12.395	34.315	0.00	0.00
ATOM	7514	C	PRO	X	494	39.181	14.429	34.127	0.00	0.00
ATOM	7515	O	PRO	X	494	39.327	15.286	33.239	0.00	0.00
ATOM	7516	N	GLN	X	495	38.344	14.653	35.177	0.00	0.00
ATOM	7517	H	GLN	X	495	38.314	13.953	35.905	0.00	0.00
ATOM	7518	CA	GLN	X	495	37.526	15.870	35.371	0.00	0.00
ATOM	7519	HA	GLN	X	495	37.860	16.629	34.664	0.00	0.00
ATOM	7520	CB	GLN	X	495	36.063	15.573	34.939	0.00	0.00
ATOM	7521	HB2	GLN	X	495	35.706	14.685	35.460	0.00	0.00
ATOM	7522	HB3	GLN	X	495	35.457	16.431	35.230	0.00	0.00
ATOM	7523	CG	GLN	X	495	35.958	15.190	33.444	0.00	0.00
ATOM	7524	HG2	GLN	X	495	36.520	14.286	33.209	0.00	0.00
ATOM	7525	HG3	GLN	X	495	34.903	14.934	33.354	0.00	0.00
ATOM	7526	CD	GLN	X	495	36.362	16.337	32.528	0.00	0.00
ATOM	7527	OE1	GLN	X	495	36.033	17.499	32.740	0.00	0.00
ATOM	7528	NE2	GLN	X	495	37.078	16.071	31.460	0.00	0.00
ATOM	7529	HE21	GLN	X	495	37.298	16.870	30.882	0.00	0.00
ATOM	7530	HE22	GLN	X	495	37.351	15.120	31.257	0.00	0.00
ATOM	7531	C	GLN	X	495	37.588	16.338	36.799	0.00	0.00
ATOM	7532	O	GLN	X	495	38.181	15.676	37.662	0.00	0.00
ATOM	7533	N	TRP	X	496	37.143	17.559	37.053	0.00	0.00
ATOM	7534	H	TRP	X	496	36.943	18.114	36.233	0.00	0.00
ATOM	7535	CA	TRP	X	496	37.278	18.390	38.357	0.00	0.00
ATOM	7536	HA	TRP	X	496	38.245	18.171	38.810	0.00	0.00
ATOM	7537	CB	TRP	X	496	37.158	19.860	37.919	0.00	0.00
ATOM	7538	HB2	TRP	X	496	37.742	19.865	36.998	0.00	0.00
ATOM	7539	HB3	TRP	X	496	36.101	20.116	37.837	0.00	0.00
ATOM	7540	CG	TRP	X	496	37.777	21.009	38.708	0.00	0.00
ATOM	7541	CD1	TRP	X	496	37.764	21.132	40.058	0.00	0.00
ATOM	7542	HD1	TRP	X	496	37.191	20.563	40.775	0.00	0.00
ATOM	7543	NE1	TRP	X	496	38.530	22.238	40.343	0.00	0.00
ATOM	7544	HE1	TRP	X	496	38.578	22.486	41.321	0.00	0.00
ATOM	7545	CE2	TRP	X	496	39.033	22.917	39.241	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	39.776	24.136	39.058	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	40.112	24.745	39.884	0.00	0.00
ATOM	7548	CH2	TRP	X	496	40.127	24.437	37.801	0.00	0.00
ATOM	7549	HH2	TRP	X	496	40.828	25.242	37.635	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	39.831	23.548	36.687	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	40.212	23.760	35.699	0.00	0.00
ATOM	7552	CE3	TRP	X	496	38.997	22.455	36.822	0.00	0.00
ATOM	7553	HE3	TRP	X	496	38.746	21.911	35.924	0.00	0.00
ATOM	7554	CD2	TRP	X	496	38.614	22.109	38.138	0.00	0.00
ATOM	7555	C	TRP	X	496	36.122	18.087	39.337	0.00	0.00
ATOM	7556	O	TRP	X	496	34.948	18.275	38.991	0.00	0.00
ATOM	7557	N	PRO	X	497	36.325	17.736	40.651	0.00	0.00
ATOM	7558	CD	PRO	X	497	37.671	17.472	41.237	0.00	0.00
ATOM	7559	HD2	PRO	X	497	38.154	18.447	41.161	0.00	0.00
ATOM	7560	HD3	PRO	X	497	38.308	16.774	40.694	0.00	0.00
ATOM	7561	CG	PRO	X	497	37.358	16.971	42.593	0.00	0.00
ATOM	7562	HG2	PRO	X	497	37.630	17.741	43.315	0.00	0.00
ATOM	7563	HG3	PRO	X	497	37.896	16.035	42.744	0.00	0.00
ATOM	7564	CB	PRO	X	497	35.797	16.648	42.674	0.00	0.00
ATOM	7565	HB2	PRO	X	497	35.400	16.765	43.682	0.00	0.00
ATOM	7566	HB3	PRO	X	497	35.523	15.648	42.335	0.00	0.00
ATOM	7567	CA	PRO	X	497	35.274	17.663	41.655	0.00	0.00
ATOM	7568	HA	PRO	X	497	34.331	17.355	41.202	0.00	0.00
ATOM	7569	C	PRO	X	497	35.148	18.995	42.398	0.00	0.00

ATOM	7570	O	PRO	X	497	36.145	19.750	42.637	0.00	0.00
ATOM	7571	N	PRO	X	498	33.933	19.298	42.940	0.00	0.00
ATOM	7572	CD	PRO	X	498	32.696	18.597	42.881	0.00	0.00
ATOM	7573	HD2	PRO	X	498	32.728	17.507	42.904	0.00	0.00
ATOM	7574	HD3	PRO	X	498	32.245	18.937	41.949	0.00	0.00
ATOM	7575	CG	PRO	X	498	31.851	19.188	43.971	0.00	0.00
ATOM	7576	HG2	PRO	X	498	32.000	18.683	44.925	0.00	0.00
ATOM	7577	HG3	PRO	X	498	30.816	19.015	43.675	0.00	0.00
ATOM	7578	CB	PRO	X	498	32.310	20.623	44.144	0.00	0.00
ATOM	7579	HB2	PRO	X	498	32.248	20.929	45.188	0.00	0.00
ATOM	7580	HB3	PRO	X	498	31.808	21.309	43.462	0.00	0.00
ATOM	7581	CA	PRO	X	498	33.804	20.420	43.823	0.00	0.00
ATOM	7582	HA	PRO	X	498	34.066	21.303	43.239	0.00	0.00
ATOM	7583	C	PRO	X	498	34.588	20.418	45.136	0.00	0.00
ATOM	7584	O	PRO	X	498	34.638	19.487	45.935	0.00	0.00
ATOM	7585	N	TYR	X	499	35.229	21.562	45.481	0.00	0.00
ATOM	7586	H	TYR	X	499	35.240	22.321	44.815	0.00	0.00
ATOM	7587	CA	TYR	X	499	35.907	21.592	46.752	0.00	0.00
ATOM	7588	HA	TYR	X	499	36.449	20.678	46.994	0.00	0.00
ATOM	7589	CB	TYR	X	499	36.852	22.810	46.805	0.00	0.00
ATOM	7590	HB2	TYR	X	499	37.445	22.751	45.893	0.00	0.00
ATOM	7591	HB3	TYR	X	499	36.204	23.686	46.823	0.00	0.00
ATOM	7592	CG	TYR	X	499	37.758	23.030	48.012	0.00	0.00
ATOM	7593	CD1	TYR	X	499	37.229	23.585	49.172	0.00	0.00
ATOM	7594	HD1	TYR	X	499	36.173	23.814	49.160	0.00	0.00
ATOM	7595	CE1	TYR	X	499	37.974	23.933	50.298	0.00	0.00
ATOM	7596	HE1	TYR	X	499	37.467	24.382	51.140	0.00	0.00
ATOM	7597	CZ	TYR	X	499	39.373	23.760	50.267	0.00	0.00
ATOM	7598	OH	TYR	X	499	40.246	24.232	51.200	0.00	0.00
ATOM	7599	HH	TYR	X	499	39.785	24.528	51.989	0.00	0.00
ATOM	7600	CE2	TYR	X	499	39.913	23.220	49.070	0.00	0.00
ATOM	7601	HE2	TYR	X	499	40.982	23.080	49.001	0.00	0.00
ATOM	7602	CD2	TYR	X	499	39.153	22.853	47.945	0.00	0.00
ATOM	7603	HD2	TYR	X	499	39.672	22.435	47.096	0.00	0.00
ATOM	7604	C	TYR	X	499	34.831	21.716	47.859	0.00	0.00
ATOM	7605	O	TYR	X	499	33.837	22.479	47.699	0.00	0.00
ATOM	7606	N	THR	X	500	35.088	21.042	48.987	0.00	0.00
ATOM	7607	H	THR	X	500	35.900	20.442	48.988	0.00	0.00
ATOM	7608	CA	THR	X	500	34.335	20.963	50.282	0.00	0.00
ATOM	7609	HA	THR	X	500	33.459	21.610	50.249	0.00	0.00
ATOM	7610	CB	THR	X	500	33.681	19.556	50.471	0.00	0.00
ATOM	7611	HB	THR	X	500	33.067	19.570	51.372	0.00	0.00
ATOM	7612	CG2	THR	X	500	32.688	19.123	49.442	0.00	0.00
ATOM	7613	HG21	THR	X	500	33.212	18.946	48.503	0.00	0.00
ATOM	7614	HG22	THR	X	500	31.990	19.941	49.264	0.00	0.00
ATOM	7615	HG23	THR	X	500	32.130	18.266	49.821	0.00	0.00
ATOM	7616	OG1	THR	X	500	34.600	18.541	50.525	0.00	0.00
ATOM	7617	HG1	THR	X	500	34.139	17.757	50.832	0.00	0.00
ATOM	7618	C	THR	X	500	35.124	21.297	51.451	0.00	0.00
ATOM	7619	O	THR	X	500	36.377	21.250	51.401	0.00	0.00
ATOM	7620	N	ALA	X	501	34.518	21.719	52.550	0.00	0.00
ATOM	7621	H	ALA	X	501	33.508	21.727	52.532	0.00	0.00
ATOM	7622	CA	ALA	X	501	35.190	21.976	53.808	0.00	0.00
ATOM	7623	HA	ALA	X	501	36.157	22.464	53.691	0.00	0.00
ATOM	7624	CB	ALA	X	501	34.273	22.871	54.626	0.00	0.00
ATOM	7625	HB1	ALA	X	501	34.453	23.889	54.278	0.00	0.00
ATOM	7626	HB2	ALA	X	501	34.643	22.833	55.651	0.00	0.00
ATOM	7627	HB3	ALA	X	501	33.223	22.608	54.498	0.00	0.00
ATOM	7628	C	ALA	X	501	35.742	20.739	54.560	0.00	0.00
ATOM	7629	O	ALA	X	501	36.574	20.776	55.438	0.00	0.00
ATOM	7630	N	GLY	X	502	35.273	19.528	54.104	0.00	0.00
ATOM	7631	H	GLY	X	502	34.417	19.470	53.570	0.00	0.00
ATOM	7632	CA	GLY	X	502	35.682	18.189	54.603	0.00	0.00
ATOM	7633	HA2	GLY	X	502	35.889	18.208	55.673	0.00	0.00
ATOM	7634	HA3	GLY	X	502	34.871	17.496	54.379	0.00	0.00
ATOM	7635	C	GLY	X	502	36.955	17.751	53.825	0.00	0.00
ATOM	7636	O	GLY	X	502	38.063	17.788	54.358	0.00	0.00

ATOM	7637	N	ALA	X	503	36.838	17.432	52.548	0.00	0.00
ATOM	7638	H	ALA	X	503	35.913	17.490	52.147	0.00	0.00
ATOM	7639	CA	ALA	X	503	37.885	16.782	51.763	0.00	0.00
ATOM	7640	HA	ALA	X	503	38.429	16.039	52.346	0.00	0.00
ATOM	7641	CB	ALA	X	503	37.085	16.005	50.719	0.00	0.00
ATOM	7642	HB1	ALA	X	503	37.763	15.229	50.363	0.00	0.00
ATOM	7643	HB2	ALA	X	503	36.916	16.611	49.830	0.00	0.00
ATOM	7644	HB3	ALA	X	503	36.128	15.634	51.085	0.00	0.00
ATOM	7645	C	ALA	X	503	38.899	17.756	51.100	0.00	0.00
ATOM	7646	O	ALA	X	503	39.991	17.285	50.754	0.00	0.00
ATOM	7647	N	GLN	X	504	38.453	19.025	50.893	0.00	0.00
ATOM	7648	H	GLN	X	504	37.578	19.419	51.209	0.00	0.00
ATOM	7649	CA	GLN	X	504	39.333	20.132	50.404	0.00	0.00
ATOM	7650	HA	GLN	X	504	38.730	20.991	50.108	0.00	0.00
ATOM	7651	CB	GLN	X	504	40.216	20.548	51.581	0.00	0.00
ATOM	7652	HB2	GLN	X	504	40.746	19.624	51.814	0.00	0.00
ATOM	7653	HB3	GLN	X	504	40.965	21.311	51.371	0.00	0.00
ATOM	7654	CG	GLN	X	504	39.426	20.947	52.817	0.00	0.00
ATOM	7655	HG2	GLN	X	504	39.120	21.935	52.474	0.00	0.00
ATOM	7656	HG3	GLN	X	504	38.622	20.273	53.111	0.00	0.00
ATOM	7657	CD	GLN	X	504	40.330	21.068	53.980	0.00	0.00
ATOM	7658	OE1	GLN	X	504	41.529	21.159	53.888	0.00	0.00
ATOM	7659	NE2	GLN	X	504	39.803	21.128	55.185	0.00	0.00
ATOM	7660	HE21	GLN	X	504	40.535	21.188	55.878	0.00	0.00
ATOM	7661	HE22	GLN	X	504	38.810	21.026	55.338	0.00	0.00
ATOM	7662	C	GLN	X	504	40.150	19.860	49.098	0.00	0.00
ATOM	7663	O	GLN	X	504	41.331	20.282	49.000	0.00	0.00
ATOM	7664	N	GLN	X	505	39.626	19.244	48.092	0.00	0.00
ATOM	7665	H	GLN	X	505	38.646	19.027	48.201	0.00	0.00
ATOM	7666	CA	GLN	X	505	40.200	18.778	46.902	0.00	0.00
ATOM	7667	HA	GLN	X	505	41.192	18.333	46.976	0.00	0.00
ATOM	7668	CB	GLN	X	505	39.280	17.826	46.163	0.00	0.00
ATOM	7669	HB2	GLN	X	505	38.295	18.254	45.975	0.00	0.00
ATOM	7670	HB3	GLN	X	505	39.619	17.692	45.136	0.00	0.00
ATOM	7671	CG	GLN	X	505	39.089	16.512	46.889	0.00	0.00
ATOM	7672	HG2	GLN	X	505	39.991	15.903	46.827	0.00	0.00
ATOM	7673	HG3	GLN	X	505	38.903	16.664	47.952	0.00	0.00
ATOM	7674	CD	GLN	X	505	38.007	15.750	46.172	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.818	15.982	46.317	0.00	0.00
ATOM	7676	NE2	GLN	X	505	38.357	14.756	45.417	0.00	0.00
ATOM	7677	HE21	GLN	X	505	37.694	14.132	44.980	0.00	0.00
ATOM	7678	HE22	GLN	X	505	39.308	14.415	45.423	0.00	0.00
ATOM	7679	C	GLN	X	505	40.519	19.861	45.931	0.00	0.00
ATOM	7680	O	GLN	X	505	39.636	20.630	45.510	0.00	0.00
ATOM	7681	N	TYR	X	506	41.780	19.906	45.461	0.00	0.00
ATOM	7682	H	TYR	X	506	42.480	19.235	45.743	0.00	0.00
ATOM	7683	CA	TYR	X	506	42.251	20.896	44.488	0.00	0.00
ATOM	7684	HA	TYR	X	506	41.363	21.392	44.097	0.00	0.00
ATOM	7685	CB	TYR	X	506	43.151	21.992	45.126	0.00	0.00
ATOM	7686	HB2	TYR	X	506	43.310	22.680	44.296	0.00	0.00
ATOM	7687	HB3	TYR	X	506	42.539	22.505	45.868	0.00	0.00
ATOM	7688	CG	TYR	X	506	44.422	21.602	45.727	0.00	0.00
ATOM	7689	CD1	TYR	X	506	44.503	20.734	46.903	0.00	0.00
ATOM	7690	HD1	TYR	X	506	43.579	20.344	47.303	0.00	0.00
ATOM	7691	CE1	TYR	X	506	45.785	20.257	47.320	0.00	0.00
ATOM	7692	HE1	TYR	X	506	45.958	19.491	48.061	0.00	0.00
ATOM	7693	CZ	TYR	X	506	46.944	20.705	46.618	0.00	0.00
ATOM	7694	OH	TYR	X	506	48.145	20.355	47.118	0.00	0.00
ATOM	7695	HH	TYR	X	506	48.032	19.716	47.826	0.00	0.00
ATOM	7696	CE2	TYR	X	506	46.845	21.745	45.654	0.00	0.00
ATOM	7697	HE2	TYR	X	506	47.795	22.116	45.300	0.00	0.00
ATOM	7698	CD2	TYR	X	506	45.587	22.138	45.118	0.00	0.00
ATOM	7699	HD2	TYR	X	506	45.517	22.824	44.287	0.00	0.00
ATOM	7700	C	TYR	X	506	42.990	20.125	43.356	0.00	0.00
ATOM	7701	O	TYR	X	506	43.864	19.296	43.600	0.00	0.00
ATOM	7702	N	VAL	X	507	42.721	20.571	42.101	0.00	0.00
ATOM	7703	H	VAL	X	507	42.147	21.400	42.054	0.00	0.00

ATOM	7704	CA	VAL	X	507	43.174	19.978	40.848	0.00	0.00
ATOM	7705	HA	VAL	X	507	43.180	18.898	40.992	0.00	0.00
ATOM	7706	CB	VAL	X	507	42.244	20.249	39.607	0.00	0.00
ATOM	7707	HB	VAL	X	507	42.679	19.626	38.825	0.00	0.00
ATOM	7708	CG1	VAL	X	507	40.857	19.772	39.824	0.00	0.00
ATOM	7709	HG11	VAL	X	507	40.227	19.908	38.944	0.00	0.00
ATOM	7710	HG12	VAL	X	507	40.792	18.719	40.096	0.00	0.00
ATOM	7711	HG13	VAL	X	507	40.402	20.334	40.640	0.00	0.00
ATOM	7712	CG2	VAL	X	507	42.316	21.696	39.160	0.00	0.00
ATOM	7713	HG21	VAL	X	507	41.878	21.818	38.170	0.00	0.00
ATOM	7714	HG22	VAL	X	507	43.347	21.996	38.969	0.00	0.00
ATOM	7715	HG23	VAL	X	507	41.741	22.375	39.789	0.00	0.00
ATOM	7716	C	VAL	X	507	44.620	20.473	40.482	0.00	0.00
ATOM	7717	O	VAL	X	507	45.106	21.510	40.932	0.00	0.00
ATOM	7718	N	SER	X	508	45.407	19.672	39.787	0.00	0.00
ATOM	7719	H	SER	X	508	45.068	18.727	39.673	0.00	0.00
ATOM	7720	CA	SER	X	508	46.763	20.032	39.246	0.00	0.00
ATOM	7721	HA	SER	X	508	47.090	20.927	39.776	0.00	0.00
ATOM	7722	CB	SER	X	508	47.690	18.881	39.433	0.00	0.00
ATOM	7723	HB2	SER	X	508	47.083	18.000	39.644	0.00	0.00
ATOM	7724	HB3	SER	X	508	48.231	18.635	38.520	0.00	0.00
ATOM	7725	OG	SER	X	508	48.453	19.077	40.591	0.00	0.00
ATOM	7726	HG	SER	X	508	49.328	19.225	40.224	0.00	0.00
ATOM	7727	C	SER	X	508	46.708	20.350	37.731	0.00	0.00
ATOM	7728	O	SER	X	508	46.434	19.466	36.882	0.00	0.00
ATOM	7729	N	LEU	X	509	47.059	21.575	37.333	0.00	0.00
ATOM	7730	H	LEU	X	509	47.420	22.117	38.105	0.00	0.00
ATOM	7731	CA	LEU	X	509	47.085	22.074	35.888	0.00	0.00
ATOM	7732	HA	LEU	X	509	46.676	21.309	35.228	0.00	0.00
ATOM	7733	CB	LEU	X	509	46.205	23.347	35.747	0.00	0.00
ATOM	7734	HB2	LEU	X	509	46.550	24.062	36.494	0.00	0.00
ATOM	7735	HB3	LEU	X	509	46.485	23.769	34.782	0.00	0.00
ATOM	7736	CG	LEU	X	509	44.703	23.058	35.880	0.00	0.00
ATOM	7737	HG	LEU	X	509	44.595	22.423	36.759	0.00	0.00
ATOM	7738	CD1	LEU	X	509	43.950	24.347	36.307	0.00	0.00
ATOM	7739	HD11	LEU	X	509	44.329	24.793	37.226	0.00	0.00
ATOM	7740	HD12	LEU	X	509	42.899	24.144	36.514	0.00	0.00
ATOM	7741	HD13	LEU	X	509	44.021	25.036	35.466	0.00	0.00
ATOM	7742	CD2	LEU	X	509	44.033	22.390	34.632	0.00	0.00
ATOM	7743	HD21	LEU	X	509	44.449	21.405	34.421	0.00	0.00
ATOM	7744	HD22	LEU	X	509	42.958	22.330	34.802	0.00	0.00
ATOM	7745	HD23	LEU	X	509	44.269	23.004	33.762	0.00	0.00
ATOM	7746	C	LEU	X	509	48.517	22.156	35.277	0.00	0.00
ATOM	7747	O	LEU	X	509	49.418	22.703	35.912	0.00	0.00
ATOM	7748	N	ASP	X	510	48.729	21.385	34.174	0.00	0.00
ATOM	7749	H	ASP	X	510	47.911	20.915	33.812	0.00	0.00
ATOM	7750	CA	ASP	X	510	50.002	21.043	33.522	0.00	0.00
ATOM	7751	HA	ASP	X	510	50.651	21.914	33.433	0.00	0.00
ATOM	7752	CB	ASP	X	510	50.642	19.980	34.446	0.00	0.00
ATOM	7753	HB2	ASP	X	510	50.499	20.306	35.476	0.00	0.00
ATOM	7754	HB3	ASP	X	510	50.042	19.103	34.204	0.00	0.00
ATOM	7755	CG	ASP	X	510	52.093	19.617	34.090	0.00	0.00
ATOM	7756	OD1	ASP	X	510	52.327	18.389	33.916	0.00	0.00
ATOM	7757	OD2	ASP	X	510	52.837	20.552	33.961	0.00	0.00
ATOM	7758	C	ASP	X	510	49.678	20.544	32.104	0.00	0.00
ATOM	7759	O	ASP	X	510	48.547	20.248	31.784	0.00	0.00
ATOM	7760	N	LEU	X	511	50.712	20.271	31.285	0.00	0.00
ATOM	7761	H	LEU	X	511	51.623	20.404	31.700	0.00	0.00
ATOM	7762	CA	LEU	X	511	50.600	19.440	30.088	0.00	0.00
ATOM	7763	HA	LEU	X	511	49.764	19.861	29.528	0.00	0.00
ATOM	7764	CB	LEU	X	511	51.951	19.493	29.303	0.00	0.00
ATOM	7765	HB2	LEU	X	511	52.650	18.832	29.816	0.00	0.00
ATOM	7766	HB3	LEU	X	511	51.824	19.042	28.318	0.00	0.00
ATOM	7767	CG	LEU	X	511	52.576	20.858	29.112	0.00	0.00
ATOM	7768	HG	LEU	X	511	52.943	21.316	30.030	0.00	0.00
ATOM	7769	CD1	LEU	X	511	53.954	20.672	28.461	0.00	0.00
ATOM	7770	HD11	LEU	X	511	53.812	20.018	27.600	0.00	0.00

ATOM	7771	HD12	LEU	X	511	54.574	20.139	29.182	0.00	0.00
ATOM	7772	HD13	LEU	X	511	54.542	21.545	28.179	0.00	0.00
ATOM	7773	CD2	LEU	X	511	51.665	21.874	28.290	0.00	0.00
ATOM	7774	HD21	LEU	X	511	51.475	21.413	27.321	0.00	0.00
ATOM	7775	HD22	LEU	X	511	50.713	21.905	28.819	0.00	0.00
ATOM	7776	HD23	LEU	X	511	52.083	22.878	28.219	0.00	0.00
ATOM	7777	C	LEU	X	511	50.200	17.951	30.348	0.00	0.00
ATOM	7778	O	LEU	X	511	49.588	17.357	29.456	0.00	0.00
ATOM	7779	N	ARG	X	512	50.434	17.298	31.538	0.00	0.00
ATOM	7780	H	ARG	X	512	50.998	17.854	32.165	0.00	0.00
ATOM	7781	CA	ARG	X	512	49.958	15.891	31.858	0.00	0.00
ATOM	7782	HA	ARG	X	512	50.122	15.213	31.021	0.00	0.00
ATOM	7783	CB	ARG	X	512	50.852	15.288	32.900	0.00	0.00
ATOM	7784	HB2	ARG	X	512	50.848	14.199	32.850	0.00	0.00
ATOM	7785	HB3	ARG	X	512	51.875	15.635	32.755	0.00	0.00
ATOM	7786	CG	ARG	X	512	50.400	15.683	34.324	0.00	0.00
ATOM	7787	HG2	ARG	X	512	50.362	16.772	34.324	0.00	0.00
ATOM	7788	HG3	ARG	X	512	49.468	15.203	34.623	0.00	0.00
ATOM	7789	CD	ARG	X	512	51.519	15.321	35.350	0.00	0.00
ATOM	7790	HD2	ARG	X	512	51.739	14.275	35.135	0.00	0.00
ATOM	7791	HD3	ARG	X	512	52.424	15.861	35.073	0.00	0.00
ATOM	7792	NE	ARG	X	512	51.174	15.565	36.725	0.00	0.00
ATOM	7793	HE	ARG	X	512	50.821	14.814	37.301	0.00	0.00
ATOM	7794	CZ	ARG	X	512	51.046	16.663	37.417	0.00	0.00
ATOM	7795	NH1	ARG	X	512	51.459	17.842	36.892	0.00	0.00
ATOM	7796	HH11	ARG	X	512	51.757	17.721	35.934	0.00	0.00
ATOM	7797	HH12	ARG	X	512	51.373	18.666	37.468	0.00	0.00
ATOM	7798	NH2	ARG	X	512	50.494	16.641	38.589	0.00	0.00
ATOM	7799	HH21	ARG	X	512	50.060	15.773	38.868	0.00	0.00
ATOM	7800	HH22	ARG	X	512	50.485	17.452	39.190	0.00	0.00
ATOM	7801	C	ARG	X	512	48.455	15.940	32.212	0.00	0.00
ATOM	7802	O	ARG	X	512	47.858	17.003	32.184	0.00	0.00
ATOM	7803	N	PRO	X	513	47.769	14.800	32.491	0.00	0.00
ATOM	7804	CD	PRO	X	513	48.147	13.384	32.076	0.00	0.00
ATOM	7805	HD2	PRO	X	513	48.739	12.921	32.865	0.00	0.00
ATOM	7806	HD3	PRO	X	513	48.628	13.268	31.105	0.00	0.00
ATOM	7807	CG	PRO	X	513	46.779	12.659	31.897	0.00	0.00
ATOM	7808	HG2	PRO	X	513	46.926	11.583	31.988	0.00	0.00
ATOM	7809	HG3	PRO	X	513	46.317	12.887	30.936	0.00	0.00
ATOM	7810	CB	PRO	X	513	46.045	13.295	33.043	0.00	0.00
ATOM	7811	HB2	PRO	X	513	46.328	12.807	33.975	0.00	0.00
ATOM	7812	HB3	PRO	X	513	44.963	13.219	32.937	0.00	0.00
ATOM	7813	CA	PRO	X	513	46.347	14.766	32.921	0.00	0.00
ATOM	7814	HA	PRO	X	513	45.851	15.309	32.117	0.00	0.00
ATOM	7815	C	PRO	X	513	45.912	15.446	34.172	0.00	0.00
ATOM	7816	O	PRO	X	513	46.727	15.926	34.945	0.00	0.00
ATOM	7817	N	LEU	X	514	44.589	15.582	34.417	0.00	0.00
ATOM	7818	H	LEU	X	514	43.917	15.193	33.771	0.00	0.00
ATOM	7819	CA	LEU	X	514	44.054	16.376	35.517	0.00	0.00
ATOM	7820	HA	LEU	X	514	44.722	17.213	35.722	0.00	0.00
ATOM	7821	CB	LEU	X	514	42.656	16.919	35.126	0.00	0.00
ATOM	7822	HB2	LEU	X	514	42.678	17.241	34.085	0.00	0.00
ATOM	7823	HB3	LEU	X	514	41.971	16.072	35.102	0.00	0.00
ATOM	7824	CG	LEU	X	514	42.177	18.062	36.013	0.00	0.00
ATOM	7825	HG	LEU	X	514	42.252	17.642	37.017	0.00	0.00
ATOM	7826	CD1	LEU	X	514	42.908	19.390	35.798	0.00	0.00
ATOM	7827	HD11	LEU	X	514	42.875	19.669	34.745	0.00	0.00
ATOM	7828	HD12	LEU	X	514	43.943	19.302	36.130	0.00	0.00
ATOM	7829	HD13	LEU	X	514	42.543	20.253	36.354	0.00	0.00
ATOM	7830	CD2	LEU	X	514	40.677	18.414	35.684	0.00	0.00
ATOM	7831	HD21	LEU	X	514	40.183	19.049	36.420	0.00	0.00
ATOM	7832	HD22	LEU	X	514	40.625	18.854	34.688	0.00	0.00
ATOM	7833	HD23	LEU	X	514	40.153	17.468	35.551	0.00	0.00
ATOM	7834	C	LEU	X	514	44.066	15.486	36.767	0.00	0.00
ATOM	7835	O	LEU	X	514	43.105	14.845	37.153	0.00	0.00
ATOM	7836	N	GLU	X	515	45.197	15.476	37.450	0.00	0.00
ATOM	7837	H	GLU	X	515	46.088	15.800	37.101	0.00	0.00

ATOM	7838	CA	GLU	X	515	45.289	14.964	38.838	0.00	0.00
ATOM	7839	HA	GLU	X	515	44.723	14.046	38.995	0.00	0.00
ATOM	7840	CB	GLU	X	515	46.690	14.737	39.324	0.00	0.00
ATOM	7841	HB2	GLU	X	515	47.227	15.683	39.258	0.00	0.00
ATOM	7842	HB3	GLU	X	515	46.864	14.340	40.324	0.00	0.00
ATOM	7843	CG	GLU	X	515	47.348	13.724	38.395	0.00	0.00
ATOM	7844	HG2	GLU	X	515	46.714	12.838	38.363	0.00	0.00
ATOM	7845	HG3	GLU	X	515	47.501	14.146	37.402	0.00	0.00
ATOM	7846	CD	GLU	X	515	48.752	13.375	38.895	0.00	0.00
ATOM	7847	OE1	GLU	X	515	48.862	12.520	39.766	0.00	0.00
ATOM	7848	OE2	GLU	X	515	49.760	13.906	38.319	0.00	0.00
ATOM	7849	C	GLU	X	515	44.642	15.950	39.874	0.00	0.00
ATOM	7850	O	GLU	X	515	44.357	17.082	39.583	0.00	0.00
ATOM	7851	N	VAL	X	516	44.390	15.393	41.101	0.00	0.00
ATOM	7852	H	VAL	X	516	44.564	14.403	41.201	0.00	0.00
ATOM	7853	CA	VAL	X	516	43.677	16.039	42.230	0.00	0.00
ATOM	7854	HA	VAL	X	516	43.828	17.112	42.113	0.00	0.00
ATOM	7855	CB	VAL	X	516	42.125	15.791	42.229	0.00	0.00
ATOM	7856	HB	VAL	X	516	42.113	14.706	42.334	0.00	0.00
ATOM	7857	CG1	VAL	X	516	41.452	16.368	43.442	0.00	0.00
ATOM	7858	HG11	VAL	X	516	41.800	17.372	43.685	0.00	0.00
ATOM	7859	HG12	VAL	X	516	40.447	16.616	43.104	0.00	0.00
ATOM	7860	HG13	VAL	X	516	41.487	15.687	44.293	0.00	0.00
ATOM	7861	CG2	VAL	X	516	41.403	16.000	40.871	0.00	0.00
ATOM	7862	HG21	VAL	X	516	40.314	16.046	40.832	0.00	0.00
ATOM	7863	HG22	VAL	X	516	41.637	15.161	40.215	0.00	0.00
ATOM	7864	HG23	VAL	X	516	41.815	16.897	40.409	0.00	0.00
ATOM	7865	C	VAL	X	516	44.279	15.548	43.497	0.00	0.00
ATOM	7866	O	VAL	X	516	44.472	14.354	43.710	0.00	0.00
ATOM	7867	N	ARG	X	517	44.582	16.532	44.302	0.00	0.00
ATOM	7868	H	ARG	X	517	44.226	17.444	44.054	0.00	0.00
ATOM	7869	CA	ARG	X	517	45.164	16.282	45.680	0.00	0.00
ATOM	7870	HA	ARG	X	517	45.386	15.215	45.658	0.00	0.00
ATOM	7871	CB	ARG	X	517	46.445	17.155	45.852	0.00	0.00
ATOM	7872	HB2	ARG	X	517	46.285	18.037	45.233	0.00	0.00
ATOM	7873	HB3	ARG	X	517	46.670	17.311	46.907	0.00	0.00
ATOM	7874	CG	ARG	X	517	47.644	16.304	45.326	0.00	0.00
ATOM	7875	HG2	ARG	X	517	48.555	16.821	45.627	0.00	0.00
ATOM	7876	HG3	ARG	X	517	47.668	15.295	45.737	0.00	0.00
ATOM	7877	CD	ARG	X	517	47.639	16.094	43.837	0.00	0.00
ATOM	7878	HD2	ARG	X	517	46.703	15.611	43.558	0.00	0.00
ATOM	7879	HD3	ARG	X	517	47.561	17.038	43.298	0.00	0.00
ATOM	7880	NE	ARG	X	517	48.875	15.412	43.290	0.00	0.00
ATOM	7881	HE	ARG	X	517	48.730	14.531	42.819	0.00	0.00
ATOM	7882	CZ	ARG	X	517	50.049	15.974	42.940	0.00	0.00
ATOM	7883	NH1	ARG	X	517	50.337	17.262	43.107	0.00	0.00
ATOM	7884	HH11	ARG	X	517	49.763	17.901	43.638	0.00	0.00
ATOM	7885	HH12	ARG	X	517	51.270	17.517	42.817	0.00	0.00
ATOM	7886	NH2	ARG	X	517	50.924	15.265	42.270	0.00	0.00
ATOM	7887	HH21	ARG	X	517	50.745	14.337	41.915	0.00	0.00
ATOM	7888	HH22	ARG	X	517	51.732	15.708	41.857	0.00	0.00
ATOM	7889	C	ARG	X	517	44.184	16.746	46.787	0.00	0.00
ATOM	7890	O	ARG	X	517	43.434	17.732	46.627	0.00	0.00
ATOM	7891	N	ARG	X	518	44.199	15.952	47.873	0.00	0.00
ATOM	7892	H	ARG	X	518	44.900	15.229	47.795	0.00	0.00
ATOM	7893	CA	ARG	X	518	43.340	16.148	49.023	0.00	0.00
ATOM	7894	HA	ARG	X	518	42.513	16.665	48.535	0.00	0.00
ATOM	7895	CB	ARG	X	518	42.795	14.827	49.694	0.00	0.00
ATOM	7896	HB2	ARG	X	518	41.978	15.135	50.346	0.00	0.00
ATOM	7897	HB3	ARG	X	518	42.437	14.089	48.977	0.00	0.00
ATOM	7898	CG	ARG	X	518	43.828	14.017	50.556	0.00	0.00
ATOM	7899	HG2	ARG	X	518	44.699	13.778	49.947	0.00	0.00
ATOM	7900	HG3	ARG	X	518	44.122	14.691	51.361	0.00	0.00
ATOM	7901	CD	ARG	X	518	43.263	12.669	51.281	0.00	0.00
ATOM	7902	HD2	ARG	X	518	43.727	12.584	52.264	0.00	0.00
ATOM	7903	HD3	ARG	X	518	42.189	12.771	51.434	0.00	0.00
ATOM	7904	NE	ARG	X	518	43.657	11.521	50.486	0.00	0.00

ATOM	7905	HE	ARG	X	518	44.191	11.715	49.651	0.00	0.00
ATOM	7906	CZ	ARG	X	518	43.255	10.193	50.608	0.00	0.00
ATOM	7907	NH1	ARG	X	518	42.306	9.806	51.425	0.00	0.00
ATOM	7908	HH11	ARG	X	518	41.876	10.553	51.952	0.00	0.00
ATOM	7909	HH12	ARG	X	518	41.986	8.857	51.561	0.00	0.00
ATOM	7910	NH2	ARG	X	518	43.891	9.269	49.964	0.00	0.00
ATOM	7911	HH21	ARG	X	518	44.781	9.426	49.512	0.00	0.00
ATOM	7912	HH22	ARG	X	518	43.505	8.343	50.078	0.00	0.00
ATOM	7913	C	ARG	X	518	44.003	17.171	49.974	0.00	0.00
ATOM	7914	O	ARG	X	518	45.215	17.376	50.047	0.00	0.00
ATOM	7915	N	GLY	X	519	43.134	17.817	50.791	0.00	0.00
ATOM	7916	H	GLY	X	519	42.160	17.766	50.530	0.00	0.00
ATOM	7917	CA	GLY	X	519	43.607	18.702	51.860	0.00	0.00
ATOM	7918	HA2	GLY	X	519	42.773	19.118	52.426	0.00	0.00
ATOM	7919	HA3	GLY	X	519	44.216	18.050	52.486	0.00	0.00
ATOM	7920	C	GLY	X	519	44.597	19.858	51.407	0.00	0.00
ATOM	7921	O	GLY	X	519	45.684	20.029	52.040	0.00	0.00
ATOM	7922	N	LEU	X	520	44.061	20.920	50.698	0.00	0.00
ATOM	7923	H	LEU	X	520	43.158	20.767	50.273	0.00	0.00
ATOM	7924	CA	LEU	X	520	44.847	22.109	50.465	0.00	0.00
ATOM	7925	HA	LEU	X	520	45.755	21.945	49.884	0.00	0.00
ATOM	7926	CB	LEU	X	520	43.974	23.012	49.592	0.00	0.00
ATOM	7927	HB2	LEU	X	520	43.646	22.465	48.708	0.00	0.00
ATOM	7928	HB3	LEU	X	520	43.049	23.199	50.137	0.00	0.00
ATOM	7929	CG	LEU	X	520	44.512	24.324	48.937	0.00	0.00
ATOM	7930	HG	LEU	X	520	44.395	25.157	49.630	0.00	0.00
ATOM	7931	CD1	LEU	X	520	45.901	24.347	48.374	0.00	0.00
ATOM	7932	HD11	LEU	X	520	46.637	24.170	49.159	0.00	0.00
ATOM	7933	HD12	LEU	X	520	46.075	25.352	47.989	0.00	0.00
ATOM	7934	HD13	LEU	X	520	46.068	23.567	47.631	0.00	0.00
ATOM	7935	CD2	LEU	X	520	43.585	24.806	47.849	0.00	0.00
ATOM	7936	HD21	LEU	X	520	42.589	24.887	48.285	0.00	0.00
ATOM	7937	HD22	LEU	X	520	43.815	25.833	47.564	0.00	0.00
ATOM	7938	HD23	LEU	X	520	43.648	24.258	46.909	0.00	0.00
ATOM	7939	C	LEU	X	520	45.361	22.784	51.737	0.00	0.00
ATOM	7940	O	LEU	X	520	44.557	23.439	52.428	0.00	0.00
ATOM	7941	N	ARG	X	521	46.669	22.724	52.002	0.00	0.00
ATOM	7942	H	ARG	X	521	47.390	22.367	51.391	0.00	0.00
ATOM	7943	CA	ARG	X	521	47.269	23.468	53.136	0.00	0.00
ATOM	7944	HA	ARG	X	521	48.248	22.991	53.195	0.00	0.00
ATOM	7945	CB	ARG	X	521	47.466	25.014	52.815	0.00	0.00
ATOM	7946	HB2	ARG	X	521	47.065	25.217	51.823	0.00	0.00
ATOM	7947	HB3	ARG	X	521	46.842	25.654	53.439	0.00	0.00
ATOM	7948	CG	ARG	X	521	48.908	25.551	52.827	0.00	0.00
ATOM	7949	HG2	ARG	X	521	49.002	26.632	52.725	0.00	0.00
ATOM	7950	HG3	ARG	X	521	49.214	25.309	53.845	0.00	0.00
ATOM	7951	CD	ARG	X	521	49.925	24.887	51.948	0.00	0.00
ATOM	7952	HD2	ARG	X	521	50.042	23.845	52.243	0.00	0.00
ATOM	7953	HD3	ARG	X	521	49.569	24.812	50.920	0.00	0.00
ATOM	7954	NE	ARG	X	521	51.181	25.641	51.990	0.00	0.00
ATOM	7955	HE	ARG	X	521	51.122	26.574	52.373	0.00	0.00
ATOM	7956	CZ	ARG	X	521	52.343	25.237	51.579	0.00	0.00
ATOM	7957	NH1	ARG	X	521	52.581	24.117	50.884	0.00	0.00
ATOM	7958	HH11	ARG	X	521	51.792	23.600	50.524	0.00	0.00
ATOM	7959	HH12	ARG	X	521	53.519	23.753	50.795	0.00	0.00
ATOM	7960	NH2	ARG	X	521	53.315	26.071	52.009	0.00	0.00
ATOM	7961	HH21	ARG	X	521	52.982	26.885	52.506	0.00	0.00
ATOM	7962	HH22	ARG	X	521	54.301	25.900	51.868	0.00	0.00
ATOM	7963	C	ARG	X	521	46.495	23.207	54.450	0.00	0.00
ATOM	7964	O	ARG	X	521	46.355	24.044	55.295	0.00	0.00
ATOM	7965	N	ALA	X	522	46.004	21.981	54.600	0.00	0.00
ATOM	7966	H	ALA	X	522	46.224	21.273	53.914	0.00	0.00
ATOM	7967	CA	ALA	X	522	45.120	21.685	55.718	0.00	0.00
ATOM	7968	HA	ALA	X	522	44.221	22.282	55.565	0.00	0.00
ATOM	7969	CB	ALA	X	522	44.750	20.186	55.547	0.00	0.00
ATOM	7970	HB1	ALA	X	522	45.683	19.633	55.430	0.00	0.00
ATOM	7971	HB2	ALA	X	522	44.265	20.044	54.581	0.00	0.00

ATOM	7972	HB3	ALA	X	522	44.160	19.895	56.417	0.00	0.00
ATOM	7973	C	ALA	X	522	45.624	21.944	57.143	0.00	0.00
ATOM	7974	O	ALA	X	522	44.842	21.900	58.145	0.00	0.00
ATOM	7975	N	GLN	X	523	46.886	22.361	57.386	0.00	0.00
ATOM	7976	H	GLN	X	523	47.457	22.419	56.554	0.00	0.00
ATOM	7977	CA	GLN	X	523	47.601	22.063	58.601	0.00	0.00
ATOM	7978	HA	GLN	X	523	46.894	22.306	59.395	0.00	0.00
ATOM	7979	CB	GLN	X	523	47.846	20.597	58.713	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.853	20.193	58.913	0.00	0.00
ATOM	7981	HB3	GLN	X	523	48.229	20.204	57.771	0.00	0.00
ATOM	7982	CG	GLN	X	523	48.718	20.123	59.887	0.00	0.00
ATOM	7983	HG2	GLN	X	523	49.700	20.573	59.743	0.00	0.00
ATOM	7984	HG3	GLN	X	523	48.337	20.358	60.881	0.00	0.00
ATOM	7985	CD	GLN	X	523	48.999	18.615	59.991	0.00	0.00
ATOM	7986	OE1	GLN	X	523	48.050	17.818	60.167	0.00	0.00
ATOM	7987	NE2	GLN	X	523	50.202	18.170	59.920	0.00	0.00
ATOM	7988	HE21	GLN	X	523	50.400	17.182	59.853	0.00	0.00
ATOM	7989	HE22	GLN	X	523	50.901	18.891	59.816	0.00	0.00
ATOM	7990	C	GLN	X	523	48.841	22.935	58.813	0.00	0.00
ATOM	7991	O	GLN	X	523	49.142	23.411	59.872	0.00	0.00
ATOM	7992	N	ALA	X	524	49.593	23.195	57.704	0.00	0.00
ATOM	7993	H	ALA	X	524	49.440	22.667	56.857	0.00	0.00
ATOM	7994	CA	ALA	X	524	50.859	23.943	57.795	0.00	0.00
ATOM	7995	HA	ALA	X	524	51.458	23.492	58.587	0.00	0.00
ATOM	7996	CB	ALA	X	524	51.504	23.780	56.433	0.00	0.00
ATOM	7997	HB1	ALA	X	524	51.800	22.753	56.219	0.00	0.00
ATOM	7998	HB2	ALA	X	524	52.347	24.465	56.342	0.00	0.00
ATOM	7999	HB3	ALA	X	524	50.830	23.921	55.588	0.00	0.00
ATOM	8000	C	ALA	X	524	50.581	25.474	58.025	0.00	0.00
ATOM	8001	O	ALA	X	524	51.392	26.199	58.664	0.00	0.00
ATOM	8002	N	CYX	X	525	49.445	26.070	57.675	0.00	0.00
ATOM	8003	H	CYX	X	525	48.855	25.548	57.043	0.00	0.00
ATOM	8004	CA	CYX	X	525	48.927	27.397	58.053	0.00	0.00
ATOM	8005	HA	CYX	X	525	49.602	28.162	57.672	0.00	0.00
ATOM	8006	CB	CYX	X	525	47.538	27.538	57.412	0.00	0.00
ATOM	8007	HB2	CYX	X	525	46.899	26.752	57.814	0.00	0.00
ATOM	8008	HB3	CYX	X	525	47.137	28.511	57.698	0.00	0.00
ATOM	8009	SG	CYX	X	525	47.540	27.398	55.636	0.00	0.00
ATOM	8010	C	CYX	X	525	48.838	27.607	59.593	0.00	0.00
ATOM	8011	O	CYX	X	525	48.834	28.751	60.008	0.00	0.00
ATOM	8012	N	ALA	X	526	48.639	26.637	60.510	0.00	0.00
ATOM	8013	H	ALA	X	526	48.677	25.669	60.222	0.00	0.00
ATOM	8014	CA	ALA	X	526	48.775	26.819	61.977	0.00	0.00
ATOM	8015	HA	ALA	X	526	47.926	27.421	62.300	0.00	0.00
ATOM	8016	CB	ALA	X	526	48.643	25.444	62.677	0.00	0.00
ATOM	8017	HB1	ALA	X	526	48.383	25.704	63.702	0.00	0.00
ATOM	8018	HB2	ALA	X	526	49.564	24.902	62.459	0.00	0.00
ATOM	8019	HB3	ALA	X	526	47.734	24.951	62.332	0.00	0.00
ATOM	8020	C	ALA	X	526	49.931	27.639	62.462	0.00	0.00
ATOM	8021	O	ALA	X	526	49.758	28.433	63.400	0.00	0.00
ATOM	8022	N	PHE	X	527	51.151	27.518	61.928	0.00	0.00
ATOM	8023	H	PHE	X	527	51.316	26.695	61.367	0.00	0.00
ATOM	8024	CA	PHE	X	527	52.338	28.388	62.203	0.00	0.00
ATOM	8025	HA	PHE	X	527	52.610	28.253	63.250	0.00	0.00
ATOM	8026	CB	PHE	X	527	53.533	27.939	61.365	0.00	0.00
ATOM	8027	HB2	PHE	X	527	53.745	26.892	61.581	0.00	0.00
ATOM	8028	HB3	PHE	X	527	53.188	27.890	60.332	0.00	0.00
ATOM	8029	CG	PHE	X	527	54.895	28.667	61.638	0.00	0.00
ATOM	8030	CD1	PHE	X	527	55.679	28.275	62.693	0.00	0.00
ATOM	8031	HD1	PHE	X	527	55.393	27.439	63.314	0.00	0.00
ATOM	8032	CE1	PHE	X	527	56.931	28.871	63.032	0.00	0.00
ATOM	8033	HE1	PHE	X	527	57.580	28.558	63.836	0.00	0.00
ATOM	8034	CZ	PHE	X	527	57.443	29.710	62.003	0.00	0.00
ATOM	8035	HZ	PHE	X	527	58.466	30.020	62.155	0.00	0.00
ATOM	8036	CE2	PHE	X	527	56.568	30.152	60.994	0.00	0.00
ATOM	8037	HE2	PHE	X	527	56.982	30.937	60.378	0.00	0.00
ATOM	8038	CD2	PHE	X	527	55.272	29.685	60.797	0.00	0.00

ATOM	8039	HD2	PHE	X	527	54.655	29.909	59.940	0.00	0.00
ATOM	8040	C	PHE	X	527	52.104	29.823	61.966	0.00	0.00
ATOM	8041	O	PHE	X	527	52.399	30.634	62.850	0.00	0.00
ATOM	8042	N	TRP	X	528	51.444	30.111	60.853	0.00	0.00
ATOM	8043	H	TRP	X	528	51.231	29.339	60.238	0.00	0.00
ATOM	8044	CA	TRP	X	528	51.059	31.460	60.435	0.00	0.00
ATOM	8045	HA	TRP	X	528	51.920	32.066	60.717	0.00	0.00
ATOM	8046	CB	TRP	X	528	50.713	31.535	58.917	0.00	0.00
ATOM	8047	HB2	TRP	X	528	49.913	30.807	58.785	0.00	0.00
ATOM	8048	HB3	TRP	X	528	50.475	32.560	58.632	0.00	0.00
ATOM	8049	CG	TRP	X	528	51.862	31.303	58.011	0.00	0.00
ATOM	8050	CD1	TRP	X	528	51.908	30.227	57.157	0.00	0.00
ATOM	8051	HD1	TRP	X	528	51.092	29.526	57.064	0.00	0.00
ATOM	8052	NE1	TRP	X	528	53.156	30.274	56.527	0.00	0.00
ATOM	8053	HE1	TRP	X	528	53.463	29.618	55.823	0.00	0.00
ATOM	8054	CE2	TRP	X	528	53.889	31.321	56.926	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	55.253	31.665	56.607	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	55.813	31.094	55.880	0.00	0.00
ATOM	8057	CH2	TRP	X	528	55.809	32.827	57.104	0.00	0.00
ATOM	8058	HH2	TRP	X	528	56.865	33.023	56.994	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	55.089	33.619	57.983	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	55.525	34.479	58.469	0.00	0.00
ATOM	8061	CE3	TRP	X	528	53.704	33.275	58.239	0.00	0.00
ATOM	8062	HE3	TRP	X	528	53.125	33.729	59.030	0.00	0.00
ATOM	8063	CD2	TRP	X	528	53.101	32.066	57.781	0.00	0.00
ATOM	8064	C	TRP	X	528	49.886	32.029	61.243	0.00	0.00
ATOM	8065	O	TRP	X	528	49.907	33.189	61.612	0.00	0.00
ATOM	8066	N	ASN	X	529	48.818	31.257	61.399	0.00	0.00
ATOM	8067	H	ASN	X	529	48.770	30.337	60.985	0.00	0.00
ATOM	8068	CA	ASN	X	529	47.652	31.667	62.071	0.00	0.00
ATOM	8069	HA	ASN	X	529	47.315	32.620	61.664	0.00	0.00
ATOM	8070	CB	ASN	X	529	46.530	30.635	61.692	0.00	0.00
ATOM	8071	HB2	ASN	X	529	46.376	30.327	60.658	0.00	0.00
ATOM	8072	HB3	ASN	X	529	46.784	29.789	62.331	0.00	0.00
ATOM	8073	CG	ASN	X	529	45.222	31.189	62.249	0.00	0.00
ATOM	8074	OD1	ASN	X	529	45.013	32.364	62.297	0.00	0.00
ATOM	8075	ND2	ASN	X	529	44.346	30.250	62.687	0.00	0.00
ATOM	8076	HD21	ASN	X	529	43.502	30.645	63.076	0.00	0.00
ATOM	8077	HD22	ASN	X	529	44.433	29.247	62.607	0.00	0.00
ATOM	8078	C	ASN	X	529	47.858	31.793	63.596	0.00	0.00
ATOM	8079	O	ASN	X	529	47.375	32.717	64.211	0.00	0.00
ATOM	8080	N	ARG	X	530	48.609	30.893	64.173	0.00	0.00
ATOM	8081	H	ARG	X	530	49.017	30.130	63.651	0.00	0.00
ATOM	8082	CA	ARG	X	530	48.720	30.795	65.671	0.00	0.00
ATOM	8083	HA	ARG	X	530	48.291	31.689	66.125	0.00	0.00
ATOM	8084	CB	ARG	X	530	47.759	29.698	66.166	0.00	0.00
ATOM	8085	HB2	ARG	X	530	48.015	28.727	65.742	0.00	0.00
ATOM	8086	HB3	ARG	X	530	47.980	29.514	67.217	0.00	0.00
ATOM	8087	CG	ARG	X	530	46.288	30.104	65.952	0.00	0.00
ATOM	8088	HG2	ARG	X	530	46.138	31.051	66.469	0.00	0.00
ATOM	8089	HG3	ARG	X	530	46.058	30.154	64.887	0.00	0.00
ATOM	8090	CD	ARG	X	530	45.232	29.185	66.561	0.00	0.00
ATOM	8091	HD2	ARG	X	530	45.117	28.276	65.970	0.00	0.00
ATOM	8092	HD3	ARG	X	530	45.391	29.005	67.624	0.00	0.00
ATOM	8093	NE	ARG	X	530	43.958	29.951	66.512	0.00	0.00
ATOM	8094	HE	ARG	X	530	43.936	30.797	65.961	0.00	0.00
ATOM	8095	CZ	ARG	X	530	42.904	29.815	67.314	0.00	0.00
ATOM	8096	NH1	ARG	X	530	42.762	28.814	68.206	0.00	0.00
ATOM	8097	HH11	ARG	X	530	43.453	28.078	68.185	0.00	0.00
ATOM	8098	HH12	ARG	X	530	41.980	28.846	68.844	0.00	0.00
ATOM	8099	NH2	ARG	X	530	41.955	30.664	67.235	0.00	0.00
ATOM	8100	HH21	ARG	X	530	42.060	31.452	66.612	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.017	30.399	67.502	0.00	0.00
ATOM	8102	C	ARG	X	530	50.099	30.646	66.331	0.00	0.00
ATOM	8103	O	ARG	X	530	50.157	30.776	67.496	0.00	0.00
ATOM	8104	N	PHE	X	531	51.263	30.627	65.605	0.00	0.00
ATOM	8105	H	PHE	X	531	51.186	30.696	64.600	0.00	0.00

ATOM	8106	CA	PHE	X	531	52.587	30.864	66.257	0.00	0.00
ATOM	8107	HA	PHE	X	531	52.564	30.801	67.345	0.00	0.00
ATOM	8108	CB	PHE	X	531	53.603	29.842	65.813	0.00	0.00
ATOM	8109	HB2	PHE	X	531	53.429	28.910	66.351	0.00	0.00
ATOM	8110	HB3	PHE	X	531	53.590	29.621	64.746	0.00	0.00
ATOM	8111	CG	PHE	X	531	54.975	30.313	66.281	0.00	0.00
ATOM	8112	CD1	PHE	X	531	56.044	30.802	65.465	0.00	0.00
ATOM	8113	HD1	PHE	X	531	55.799	30.985	64.429	0.00	0.00
ATOM	8114	CE1	PHE	X	531	57.296	31.062	66.008	0.00	0.00
ATOM	8115	HE1	PHE	X	531	58.020	31.520	65.351	0.00	0.00
ATOM	8116	CZ	PHE	X	531	57.623	30.817	67.334	0.00	0.00
ATOM	8117	HZ	PHE	X	531	58.602	30.973	67.762	0.00	0.00
ATOM	8118	CE2	PHE	X	531	56.625	30.307	68.190	0.00	0.00
ATOM	8119	HE2	PHE	X	531	56.834	29.906	69.170	0.00	0.00
ATOM	8120	CD2	PHE	X	531	55.288	30.150	67.658	0.00	0.00
ATOM	8121	HD2	PHE	X	531	54.525	29.786	68.329	0.00	0.00
ATOM	8122	C	PHE	X	531	53.015	32.303	65.919	0.00	0.00
ATOM	8123	O	PHE	X	531	53.429	33.043	66.870	0.00	0.00
ATOM	8124	N	LEU	X	532	53.010	32.732	64.676	0.00	0.00
ATOM	8125	H	LEU	X	532	52.914	32.008	63.979	0.00	0.00
ATOM	8126	CA	LEU	X	532	53.514	34.093	64.314	0.00	0.00
ATOM	8127	HA	LEU	X	532	54.558	34.063	64.624	0.00	0.00
ATOM	8128	CB	LEU	X	532	53.324	34.282	62.770	0.00	0.00
ATOM	8129	HB2	LEU	X	532	52.716	33.440	62.438	0.00	0.00
ATOM	8130	HB3	LEU	X	532	52.855	35.222	62.479	0.00	0.00
ATOM	8131	CG	LEU	X	532	54.632	34.233	62.011	0.00	0.00
ATOM	8132	HG	LEU	X	532	54.385	34.389	60.961	0.00	0.00
ATOM	8133	CD1	LEU	X	532	55.629	35.308	62.541	0.00	0.00
ATOM	8134	HD11	LEU	X	532	56.544	35.274	61.949	0.00	0.00
ATOM	8135	HD12	LEU	X	532	55.889	35.119	63.583	0.00	0.00
ATOM	8136	HD13	LEU	X	532	55.276	36.334	62.438	0.00	0.00
ATOM	8137	CD2	LEU	X	532	55.353	32.846	62.085	0.00	0.00
ATOM	8138	HD21	LEU	X	532	56.146	32.875	61.337	0.00	0.00
ATOM	8139	HD22	LEU	X	532	55.788	32.742	63.078	0.00	0.00
ATOM	8140	HD23	LEU	X	532	54.668	32.021	61.893	0.00	0.00
ATOM	8141	C	LEU	X	532	52.803	35.200	65.091	0.00	0.00
ATOM	8142	O	LEU	X	532	53.632	35.958	65.545	0.00	0.00
ATOM	8143	N	PRO	X	533	51.513	35.403	65.286	0.00	0.00
ATOM	8144	CD	PRO	X	533	50.363	34.634	64.735	0.00	0.00
ATOM	8145	HD2	PRO	X	533	50.427	33.591	65.044	0.00	0.00
ATOM	8146	HD3	PRO	X	533	50.242	34.696	63.653	0.00	0.00
ATOM	8147	CG	PRO	X	533	49.079	35.183	65.481	0.00	0.00
ATOM	8148	HG2	PRO	X	533	48.846	34.447	66.251	0.00	0.00
ATOM	8149	HG3	PRO	X	533	48.294	35.278	64.731	0.00	0.00
ATOM	8150	CB	PRO	X	533	49.573	36.473	66.101	0.00	0.00
ATOM	8151	HB2	PRO	X	533	49.135	36.613	67.089	0.00	0.00
ATOM	8152	HB3	PRO	X	533	49.127	37.174	65.396	0.00	0.00
ATOM	8153	CA	PRO	X	533	51.074	36.440	66.175	0.00	0.00
ATOM	8154	HA	PRO	X	533	51.432	37.390	65.779	0.00	0.00
ATOM	8155	C	PRO	X	533	51.711	36.299	67.557	0.00	0.00
ATOM	8156	O	PRO	X	533	52.029	37.374	68.118	0.00	0.00
ATOM	8157	N	LYS	X	534	51.827	35.077	68.137	0.00	0.00
ATOM	8158	H	LYS	X	534	51.539	34.226	67.676	0.00	0.00
ATOM	8159	CA	LYS	X	534	52.305	34.906	69.518	0.00	0.00
ATOM	8160	HA	LYS	X	534	51.668	35.533	70.143	0.00	0.00
ATOM	8161	CB	LYS	X	534	51.931	33.495	70.052	0.00	0.00
ATOM	8162	HB2	LYS	X	534	50.999	33.048	69.705	0.00	0.00
ATOM	8163	HB3	LYS	X	534	52.770	32.836	69.829	0.00	0.00
ATOM	8164	CG	LYS	X	534	51.779	33.602	71.617	0.00	0.00
ATOM	8165	HG2	LYS	X	534	52.621	34.093	72.104	0.00	0.00
ATOM	8166	HG3	LYS	X	534	50.864	34.154	71.831	0.00	0.00
ATOM	8167	CD	LYS	X	534	51.769	32.215	72.359	0.00	0.00
ATOM	8168	HD2	LYS	X	534	50.805	31.707	72.359	0.00	0.00
ATOM	8169	HD3	LYS	X	534	52.500	31.572	71.870	0.00	0.00
ATOM	8170	CE	LYS	X	534	52.160	32.375	73.850	0.00	0.00
ATOM	8171	HE2	LYS	X	534	53.155	32.805	73.965	0.00	0.00
ATOM	8172	HE3	LYS	X	534	51.437	32.962	74.417	0.00	0.00

ATOM	8173	NZ	LYS	X	534	52.307	31.028	74.541	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	53.231	30.622	74.505	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	52.223	31.088	75.546	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	51.665	30.345	74.165	0.00	0.00
ATOM	8177	C	LYS	X	534	53.819	35.300	69.696	0.00	0.00
ATOM	8178	O	LYS	X	534	54.248	35.951	70.667	0.00	0.00
ATOM	8179	N	LEU	X	535	54.666	34.920	68.738	0.00	0.00
ATOM	8180	H	LEU	X	535	54.382	34.317	67.979	0.00	0.00
ATOM	8181	CA	LEU	X	535	56.072	35.438	68.638	0.00	0.00
ATOM	8182	HA	LEU	X	535	56.532	35.099	69.566	0.00	0.00
ATOM	8183	CB	LEU	X	535	56.748	34.869	67.392	0.00	0.00
ATOM	8184	HB2	LEU	X	535	56.536	33.802	67.331	0.00	0.00
ATOM	8185	HB3	LEU	X	535	56.161	35.346	66.607	0.00	0.00
ATOM	8186	CG	LEU	X	535	58.218	35.224	67.284	0.00	0.00
ATOM	8187	HG	LEU	X	535	58.258	36.312	67.236	0.00	0.00
ATOM	8188	CD1	LEU	X	535	58.996	34.481	68.450	0.00	0.00
ATOM	8189	HD11	LEU	X	535	58.753	34.945	69.406	0.00	0.00
ATOM	8190	HD12	LEU	X	535	60.073	34.473	68.279	0.00	0.00
ATOM	8191	HD13	LEU	X	535	58.585	33.481	68.587	0.00	0.00
ATOM	8192	CD2	LEU	X	535	58.680	34.783	65.877	0.00	0.00
ATOM	8193	HD21	LEU	X	535	58.834	33.706	65.804	0.00	0.00
ATOM	8194	HD22	LEU	X	535	57.948	35.091	65.131	0.00	0.00
ATOM	8195	HD23	LEU	X	535	59.531	35.417	65.630	0.00	0.00
ATOM	8196	C	LEU	X	535	56.220	36.916	68.621	0.00	0.00
ATOM	8197	O	LEU	X	535	57.109	37.418	69.311	0.00	0.00
ATOM	8198	N	LEU	X	536	55.283	37.640	68.002	0.00	0.00
ATOM	8199	H	LEU	X	536	54.637	37.079	67.464	0.00	0.00
ATOM	8200	CA	LEU	X	536	55.315	39.133	67.980	0.00	0.00
ATOM	8201	HA	LEU	X	536	56.275	39.638	67.872	0.00	0.00
ATOM	8202	CB	LEU	X	536	54.518	39.589	66.732	0.00	0.00
ATOM	8203	HB2	LEU	X	536	53.803	38.816	66.452	0.00	0.00
ATOM	8204	HB3	LEU	X	536	54.062	40.553	66.957	0.00	0.00
ATOM	8205	CG	LEU	X	536	55.405	39.802	65.480	0.00	0.00
ATOM	8206	HG	LEU	X	536	54.659	39.743	64.688	0.00	0.00
ATOM	8207	CD1	LEU	X	536	56.024	41.175	65.365	0.00	0.00
ATOM	8208	HD11	LEU	X	536	56.620	41.328	64.466	0.00	0.00
ATOM	8209	HD12	LEU	X	536	56.643	41.332	66.248	0.00	0.00
ATOM	8210	HD13	LEU	X	536	55.236	41.928	65.401	0.00	0.00
ATOM	8211	CD2	LEU	X	536	56.399	38.588	65.189	0.00	0.00
ATOM	8212	HD21	LEU	X	536	56.758	38.680	64.164	0.00	0.00
ATOM	8213	HD22	LEU	X	536	57.318	38.689	65.766	0.00	0.00
ATOM	8214	HD23	LEU	X	536	55.969	37.609	65.399	0.00	0.00
ATOM	8215	C	LEU	X	536	54.781	39.756	69.281	0.00	0.00
ATOM	8216	O	LEU	X	536	55.128	40.825	69.622	0.00	0.00
ATOM	8217	N	SER	X	537	53.854	39.152	70.040	0.00	0.00
ATOM	8218	H	SER	X	537	53.394	38.299	69.757	0.00	0.00
ATOM	8219	CA	SER	X	537	53.505	39.687	71.355	0.00	0.00
ATOM	8220	HA	SER	X	537	53.278	40.751	71.295	0.00	0.00
ATOM	8221	CB	SER	X	537	52.170	39.117	71.780	0.00	0.00
ATOM	8222	HB2	SER	X	537	51.976	39.566	72.754	0.00	0.00
ATOM	8223	HB3	SER	X	537	51.365	39.364	71.087	0.00	0.00
ATOM	8224	OG	SER	X	537	52.264	37.681	71.788	0.00	0.00
ATOM	8225	HG	SER	X	537	51.423	37.335	72.098	0.00	0.00
ATOM	8226	C	SER	X	537	54.563	39.618	72.516	0.00	0.00
ATOM	8227	O	SER	X	537	54.509	40.377	73.442	0.00	0.00
ATOM	8228	N	ALA	X	538	55.542	38.758	72.292	0.00	0.00
ATOM	8229	H	ALA	X	538	55.398	38.202	71.461	0.00	0.00
ATOM	8230	CA	ALA	X	538	56.778	38.558	73.082	0.00	0.00
ATOM	8231	HA	ALA	X	538	56.588	38.885	74.104	0.00	0.00
ATOM	8232	CB	ALA	X	538	56.929	37.068	72.993	0.00	0.00
ATOM	8233	HB1	ALA	X	538	57.006	36.777	71.946	0.00	0.00
ATOM	8234	HB2	ALA	X	538	55.954	36.617	73.180	0.00	0.00
ATOM	8235	HB3	ALA	X	538	57.761	36.686	73.586	0.00	0.00
ATOM	8236	C	ALA	X	538	58.087	39.225	72.648	0.00	0.00
ATOM	8237	O	ALA	X	538	58.923	39.497	73.463	0.00	0.00
ATOM	8238	N	THR	X	539	58.330	39.502	71.368	0.00	0.00
ATOM	8239	H	THR	X	539	57.626	39.215	70.704	0.00	0.00

ATOM	8240	CA	THR	X	539	59.627	39.989	70.806	0.00	0.00
ATOM	8241	HA	THR	X	539	60.495	39.587	71.329	0.00	0.00
ATOM	8242	CB	THR	X	539	59.650	39.667	69.311	0.00	0.00
ATOM	8243	HB	THR	X	539	58.747	40.081	68.863	0.00	0.00
ATOM	8244	CG2	THR	X	539	60.895	40.243	68.569	0.00	0.00
ATOM	8245	HG21	THR	X	539	60.856	40.202	67.480	0.00	0.00
ATOM	8246	HG22	THR	X	539	61.755	39.643	68.867	0.00	0.00
ATOM	8247	HG23	THR	X	539	61.052	41.290	68.832	0.00	0.00
ATOM	8248	OG1	THR	X	539	59.819	38.290	69.296	0.00	0.00
ATOM	8249	HG1	THR	X	539	58.936	37.925	69.206	0.00	0.00
ATOM	8250	C	THR	X	539	59.690	41.477	71.117	0.00	0.00
ATOM	8251	O	THR	X	539	58.889	42.279	70.553	0.00	0.00
ATOM	8252	OXT	THR	X	539	60.507	41.942	71.891	0.00	0.00

END

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1B41 Production MD Frame 2200
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CRYST1	82.037	82.037	82.037	90.00	90.00	90.00	P 1		1	
ATOM	1	N	ASP	X	1	27.343	51.105	7.374	0.00	0.00
ATOM	2	H1	ASP	X	1	28.001	50.397	7.666	0.00	0.00
ATOM	3	H2	ASP	X	1	27.154	51.017	6.385	0.00	0.00
ATOM	4	H3	ASP	X	1	26.507	50.740	7.807	0.00	0.00
ATOM	5	CA	ASP	X	1	27.732	52.489	7.818	0.00	0.00
ATOM	6	HA	ASP	X	1	28.662	52.699	7.291	0.00	0.00
ATOM	7	CB	ASP	X	1	26.590	53.408	7.449	0.00	0.00
ATOM	8	HB2	ASP	X	1	26.154	53.070	6.509	0.00	0.00
ATOM	9	HB3	ASP	X	1	25.839	53.405	8.239	0.00	0.00
ATOM	10	CG	ASP	X	1	27.025	54.897	7.174	0.00	0.00
ATOM	11	OD1	ASP	X	1	27.942	55.079	6.317	0.00	0.00
ATOM	12	OD2	ASP	X	1	26.479	55.877	7.712	0.00	0.00
ATOM	13	C	ASP	X	1	28.110	52.595	9.280	0.00	0.00
ATOM	14	O	ASP	X	1	29.079	53.169	9.640	0.00	0.00
ATOM	15	N	ALA	X	2	27.275	52.082	10.173	0.00	0.00
ATOM	16	H	ALA	X	2	26.389	51.684	9.898	0.00	0.00
ATOM	17	CA	ALA	X	2	27.489	52.173	11.632	0.00	0.00
ATOM	18	HA	ALA	X	2	28.020	53.101	11.847	0.00	0.00
ATOM	19	CB	ALA	X	2	26.193	52.201	12.461	0.00	0.00
ATOM	20	HB1	ALA	X	2	26.319	52.581	13.475	0.00	0.00
ATOM	21	HB2	ALA	X	2	25.770	51.200	12.384	0.00	0.00
ATOM	22	HB3	ALA	X	2	25.460	52.827	11.953	0.00	0.00
ATOM	23	C	ALA	X	2	28.471	51.009	12.103	0.00	0.00
ATOM	24	O	ALA	X	2	28.397	50.418	13.187	0.00	0.00
ATOM	25	N	GLU	X	3	29.504	50.757	11.318	0.00	0.00
ATOM	26	H	GLU	X	3	29.820	51.409	10.614	0.00	0.00
ATOM	27	CA	GLU	X	3	30.416	49.615	11.609	0.00	0.00
ATOM	28	HA	GLU	X	3	29.699	48.839	11.877	0.00	0.00
ATOM	29	CB	GLU	X	3	31.206	49.199	10.319	0.00	0.00
ATOM	30	HB2	GLU	X	3	31.545	50.067	9.753	0.00	0.00
ATOM	31	HB3	GLU	X	3	32.126	48.687	10.603	0.00	0.00
ATOM	32	CG	GLU	X	3	30.318	48.191	9.460	0.00	0.00
ATOM	33	HG2	GLU	X	3	30.925	47.621	8.757	0.00	0.00
ATOM	34	HG3	GLU	X	3	29.716	47.528	10.081	0.00	0.00
ATOM	35	CD	GLU	X	3	29.357	49.053	8.595	0.00	0.00
ATOM	36	OE1	GLU	X	3	29.880	49.906	7.794	0.00	0.00
ATOM	37	OE2	GLU	X	3	28.148	49.017	8.803	0.00	0.00
ATOM	38	C	GLU	X	3	31.345	49.887	12.820	0.00	0.00
ATOM	39	O	GLU	X	3	31.669	49.001	13.592	0.00	0.00
ATOM	40	N	LEU	X	4	31.758	51.148	12.984	0.00	0.00
ATOM	41	H	LEU	X	4	31.506	51.809	12.263	0.00	0.00
ATOM	42	CA	LEU	X	4	32.626	51.682	14.107	0.00	0.00
ATOM	43	HA	LEU	X	4	32.754	50.893	14.848	0.00	0.00
ATOM	44	CB	LEU	X	4	33.930	52.182	13.464	0.00	0.00
ATOM	45	HB2	LEU	X	4	33.624	52.978	12.785	0.00	0.00

ATOM	46	HB3	LEU	X	4	34.531	52.743	14.180	0.00	0.00
ATOM	47	CG	LEU	X	4	34.759	51.101	12.743	0.00	0.00
ATOM	48	HG	LEU	X	4	34.208	50.619	11.935	0.00	0.00
ATOM	49	CD1	LEU	X	4	36.055	51.671	12.040	0.00	0.00
ATOM	50	HD11	LEU	X	4	36.452	50.934	11.342	0.00	0.00
ATOM	51	HD12	LEU	X	4	36.816	51.774	12.814	0.00	0.00
ATOM	52	HD13	LEU	X	4	35.845	52.576	11.470	0.00	0.00
ATOM	53	CD2	LEU	X	4	35.255	50.024	13.757	0.00	0.00
ATOM	54	HD21	LEU	X	4	34.412	49.394	14.040	0.00	0.00
ATOM	55	HD22	LEU	X	4	35.892	49.353	13.181	0.00	0.00
ATOM	56	HD23	LEU	X	4	35.816	50.441	14.593	0.00	0.00
ATOM	57	C	LEU	X	4	31.986	52.858	14.853	0.00	0.00
ATOM	58	O	LEU	X	4	32.559	53.224	15.850	0.00	0.00
ATOM	59	N	LEU	X	5	30.829	53.362	14.388	0.00	0.00
ATOM	60	H	LEU	X	5	30.346	52.985	13.585	0.00	0.00
ATOM	61	CA	LEU	X	5	29.955	54.180	15.252	0.00	0.00
ATOM	62	HA	LEU	X	5	30.674	54.696	15.889	0.00	0.00
ATOM	63	CB	LEU	X	5	29.094	55.194	14.513	0.00	0.00
ATOM	64	HB2	LEU	X	5	28.410	54.595	13.911	0.00	0.00
ATOM	65	HB3	LEU	X	5	28.538	55.805	15.224	0.00	0.00
ATOM	66	CG	LEU	X	5	29.853	56.293	13.663	0.00	0.00
ATOM	67	HG	LEU	X	5	30.504	55.711	13.010	0.00	0.00
ATOM	68	CD1	LEU	X	5	29.063	57.045	12.661	0.00	0.00
ATOM	69	HD11	LEU	X	5	29.783	57.659	12.120	0.00	0.00
ATOM	70	HD12	LEU	X	5	28.340	57.688	13.163	0.00	0.00
ATOM	71	HD13	LEU	X	5	28.454	56.411	12.016	0.00	0.00
ATOM	72	CD2	LEU	X	5	30.728	57.297	14.492	0.00	0.00
ATOM	73	HD21	LEU	X	5	31.240	58.072	13.922	0.00	0.00
ATOM	74	HD22	LEU	X	5	29.992	57.797	15.121	0.00	0.00
ATOM	75	HD23	LEU	X	5	31.319	56.720	15.204	0.00	0.00
ATOM	76	C	LEU	X	5	29.111	53.437	16.270	0.00	0.00
ATOM	77	O	LEU	X	5	28.657	52.301	15.979	0.00	0.00
ATOM	78	N	VAL	X	6	28.879	54.009	17.467	0.00	0.00
ATOM	79	H	VAL	X	6	29.454	54.824	17.624	0.00	0.00
ATOM	80	CA	VAL	X	6	28.042	53.538	18.548	0.00	0.00
ATOM	81	HA	VAL	X	6	27.166	53.084	18.084	0.00	0.00
ATOM	82	CB	VAL	X	6	28.783	52.457	19.284	0.00	0.00
ATOM	83	HB	VAL	X	6	29.387	51.889	18.576	0.00	0.00
ATOM	84	CG1	VAL	X	6	29.761	52.895	20.388	0.00	0.00
ATOM	85	HG11	VAL	X	6	30.226	51.995	20.790	0.00	0.00
ATOM	86	HG12	VAL	X	6	30.464	53.627	19.993	0.00	0.00
ATOM	87	HG13	VAL	X	6	29.117	53.289	21.175	0.00	0.00
ATOM	88	CG2	VAL	X	6	27.848	51.420	19.877	0.00	0.00
ATOM	89	HG21	VAL	X	6	27.428	51.651	20.856	0.00	0.00
ATOM	90	HG22	VAL	X	6	28.431	50.522	20.083	0.00	0.00
ATOM	91	HG23	VAL	X	6	27.083	51.162	19.144	0.00	0.00
ATOM	92	C	VAL	X	6	27.557	54.615	19.501	0.00	0.00
ATOM	93	O	VAL	X	6	28.267	55.589	19.783	0.00	0.00
ATOM	94	N	THR	X	7	26.250	54.581	19.784	0.00	0.00
ATOM	95	H	THR	X	7	25.812	53.694	19.577	0.00	0.00
ATOM	96	CA	THR	X	7	25.501	55.580	20.632	0.00	0.00
ATOM	97	HA	THR	X	7	25.964	56.548	20.444	0.00	0.00
ATOM	98	CB	THR	X	7	24.083	55.690	19.875	0.00	0.00
ATOM	99	HB	THR	X	7	23.588	54.720	19.919	0.00	0.00
ATOM	100	CG2	THR	X	7	23.286	56.741	20.716	0.00	0.00
ATOM	101	HG21	THR	X	7	22.322	56.984	20.269	0.00	0.00
ATOM	102	HG22	THR	X	7	23.768	57.719	20.710	0.00	0.00
ATOM	103	HG23	THR	X	7	23.155	56.323	21.714	0.00	0.00
ATOM	104	OG1	THR	X	7	24.253	56.231	18.583	0.00	0.00
ATOM	105	HG1	THR	X	7	23.480	55.984	18.070	0.00	0.00
ATOM	106	C	THR	X	7	25.388	54.981	22.089	0.00	0.00
ATOM	107	O	THR	X	7	25.309	53.816	22.250	0.00	0.00
ATOM	108	N	VAL	X	8	25.360	55.884	23.090	0.00	0.00
ATOM	109	H	VAL	X	8	25.602	56.838	22.861	0.00	0.00
ATOM	110	CA	VAL	X	8	25.359	55.650	24.556	0.00	0.00
ATOM	111	HA	VAL	X	8	24.792	54.720	24.594	0.00	0.00
ATOM	112	CB	VAL	X	8	26.813	55.454	25.120	0.00	0.00

ATOM	113	HB	VAL	X	8	26.717	55.325	26.198	0.00	0.00
ATOM	114	CG1	VAL	X	8	27.603	54.218	24.540	0.00	0.00
ATOM	115	HG11	VAL	X	8	27.119	53.242	24.518	0.00	0.00
ATOM	116	HG12	VAL	X	8	27.786	54.374	23.477	0.00	0.00
ATOM	117	HG13	VAL	X	8	28.549	54.129	25.074	0.00	0.00
ATOM	118	CG2	VAL	X	8	27.636	56.715	24.852	0.00	0.00
ATOM	119	HG21	VAL	X	8	27.149	57.632	25.183	0.00	0.00
ATOM	120	HG22	VAL	X	8	27.763	56.890	23.784	0.00	0.00
ATOM	121	HG23	VAL	X	8	28.669	56.683	25.198	0.00	0.00
ATOM	122	C	VAL	X	8	24.592	56.806	25.229	0.00	0.00
ATOM	123	O	VAL	X	8	24.219	57.800	24.587	0.00	0.00
ATOM	124	N	ARG	X	9	24.408	56.602	26.541	0.00	0.00
ATOM	125	H	ARG	X	9	24.537	55.683	26.940	0.00	0.00
ATOM	126	CA	ARG	X	9	23.913	57.601	27.441	0.00	0.00
ATOM	127	HA	ARG	X	9	22.891	57.863	27.170	0.00	0.00
ATOM	128	CB	ARG	X	9	23.901	57.219	28.928	0.00	0.00
ATOM	129	HB2	ARG	X	9	23.257	56.342	28.985	0.00	0.00
ATOM	130	HB3	ARG	X	9	24.883	56.854	29.229	0.00	0.00
ATOM	131	CG	ARG	X	9	23.410	58.301	29.916	0.00	0.00
ATOM	132	HG2	ARG	X	9	24.140	59.091	30.093	0.00	0.00
ATOM	133	HG3	ARG	X	9	22.504	58.781	29.546	0.00	0.00
ATOM	134	CD	ARG	X	9	23.127	57.571	31.304	0.00	0.00
ATOM	135	HD2	ARG	X	9	22.282	56.904	31.134	0.00	0.00
ATOM	136	HD3	ARG	X	9	23.927	57.001	31.776	0.00	0.00
ATOM	137	NE	ARG	X	9	22.740	58.533	32.316	0.00	0.00
ATOM	138	HE	ARG	X	9	22.739	59.488	31.986	0.00	0.00
ATOM	139	CZ	ARG	X	9	22.540	58.300	33.628	0.00	0.00
ATOM	140	NH1	ARG	X	9	22.345	57.066	34.087	0.00	0.00
ATOM	141	HH11	ARG	X	9	22.343	56.284	33.448	0.00	0.00
ATOM	142	HH12	ARG	X	9	22.203	56.905	35.074	0.00	0.00
ATOM	143	NH2	ARG	X	9	22.329	59.392	34.418	0.00	0.00
ATOM	144	HH21	ARG	X	9	22.414	60.292	33.967	0.00	0.00
ATOM	145	HH22	ARG	X	9	22.237	59.281	35.418	0.00	0.00
ATOM	146	C	ARG	X	9	24.524	59.024	27.159	0.00	0.00
ATOM	147	O	ARG	X	9	23.823	60.070	27.236	0.00	0.00
ATOM	148	N	GLY	X	10	25.873	59.162	26.954	0.00	0.00
ATOM	149	H	GLY	X	10	26.448	58.368	27.197	0.00	0.00
ATOM	150	CA	GLY	X	10	26.630	60.431	26.739	0.00	0.00
ATOM	151	HA2	GLY	X	10	26.273	61.195	27.430	0.00	0.00
ATOM	152	HA3	GLY	X	10	27.647	60.108	26.961	0.00	0.00
ATOM	153	C	GLY	X	10	26.595	61.155	25.435	0.00	0.00
ATOM	154	O	GLY	X	10	26.850	62.332	25.332	0.00	0.00
ATOM	155	N	GLY	X	11	26.206	60.465	24.384	0.00	0.00
ATOM	156	H	GLY	X	11	25.915	59.508	24.523	0.00	0.00
ATOM	157	CA	GLY	X	11	26.012	60.924	22.979	0.00	0.00
ATOM	158	HA2	GLY	X	11	24.988	61.219	22.751	0.00	0.00
ATOM	159	HA3	GLY	X	11	26.706	61.744	22.795	0.00	0.00
ATOM	160	C	GLY	X	11	26.460	59.843	21.941	0.00	0.00
ATOM	161	O	GLY	X	11	26.229	58.624	22.060	0.00	0.00
ATOM	162	N	ARG	X	12	27.149	60.286	20.913	0.00	0.00
ATOM	163	H	ARG	X	12	27.424	61.251	21.032	0.00	0.00
ATOM	164	CA	ARG	X	12	27.744	59.330	19.930	0.00	0.00
ATOM	165	HA	ARG	X	12	27.259	58.357	20.004	0.00	0.00
ATOM	166	CB	ARG	X	12	27.379	59.737	18.503	0.00	0.00
ATOM	167	HB2	ARG	X	12	27.870	60.624	18.105	0.00	0.00
ATOM	168	HB3	ARG	X	12	27.652	58.905	17.853	0.00	0.00
ATOM	169	CG	ARG	X	12	25.870	59.855	18.340	0.00	0.00
ATOM	170	HG2	ARG	X	12	25.368	58.917	18.580	0.00	0.00
ATOM	171	HG3	ARG	X	12	25.472	60.573	19.056	0.00	0.00
ATOM	172	CD	ARG	X	12	25.446	60.163	16.920	0.00	0.00
ATOM	173	HD2	ARG	X	12	24.373	60.352	16.886	0.00	0.00
ATOM	174	HD3	ARG	X	12	25.870	61.108	16.579	0.00	0.00
ATOM	175	NE	ARG	X	12	25.771	59.146	15.951	0.00	0.00
ATOM	176	HE	ARG	X	12	25.768	58.198	16.298	0.00	0.00
ATOM	177	CZ	ARG	X	12	26.044	59.342	14.641	0.00	0.00
ATOM	178	NH1	ARG	X	12	26.302	60.500	14.099	0.00	0.00
ATOM	179	HH11	ARG	X	12	26.492	61.287	14.703	0.00	0.00

ATOM	180	HH12	ARG	X	12	26.531	60.517	13.116	0.00	0.00
ATOM	181	NH2	ARG	X	12	25.960	58.294	13.864	0.00	0.00
ATOM	182	HH21	ARG	X	12	25.633	57.406	14.215	0.00	0.00
ATOM	183	HH22	ARG	X	12	25.985	58.492	12.874	0.00	0.00
ATOM	184	C	ARG	X	12	29.348	59.065	20.157	0.00	0.00
ATOM	185	O	ARG	X	12	30.040	59.951	20.501	0.00	0.00
ATOM	186	N	LEU	X	13	29.869	57.899	19.846	0.00	0.00
ATOM	187	H	LEU	X	13	29.146	57.200	19.759	0.00	0.00
ATOM	188	CA	LEU	X	13	31.268	57.416	19.958	0.00	0.00
ATOM	189	HA	LEU	X	13	31.881	58.313	20.046	0.00	0.00
ATOM	190	CB	LEU	X	13	31.550	56.460	21.159	0.00	0.00
ATOM	191	HB2	LEU	X	13	31.119	55.502	20.869	0.00	0.00
ATOM	192	HB3	LEU	X	13	32.604	56.193	21.081	0.00	0.00
ATOM	193	CG	LEU	X	13	31.089	56.792	22.594	0.00	0.00
ATOM	194	HG	LEU	X	13	30.082	57.208	22.575	0.00	0.00
ATOM	195	CD1	LEU	X	13	31.063	55.495	23.409	0.00	0.00
ATOM	196	HD11	LEU	X	13	30.582	55.583	24.384	0.00	0.00
ATOM	197	HD12	LEU	X	13	32.121	55.241	23.483	0.00	0.00
ATOM	198	HD13	LEU	X	13	30.572	54.690	22.862	0.00	0.00
ATOM	199	CD2	LEU	X	13	32.104	57.787	23.122	0.00	0.00
ATOM	200	HD21	LEU	X	13	33.058	57.264	23.179	0.00	0.00
ATOM	201	HD22	LEU	X	13	32.198	58.631	22.439	0.00	0.00
ATOM	202	HD23	LEU	X	13	32.060	58.172	24.141	0.00	0.00
ATOM	203	C	LEU	X	13	31.726	56.714	18.605	0.00	0.00
ATOM	204	O	LEU	X	13	30.920	55.964	18.046	0.00	0.00
ATOM	205	N	ARG	X	14	32.918	57.032	18.094	0.00	0.00
ATOM	206	H	ARG	X	14	33.516	57.596	18.682	0.00	0.00
ATOM	207	CA	ARG	X	14	33.600	56.308	16.966	0.00	0.00
ATOM	208	HA	ARG	X	14	32.836	55.649	16.554	0.00	0.00
ATOM	209	CB	ARG	X	14	34.051	57.295	15.831	0.00	0.00
ATOM	210	HB2	ARG	X	14	33.235	57.990	15.638	0.00	0.00
ATOM	211	HB3	ARG	X	14	34.985	57.797	16.083	0.00	0.00
ATOM	212	CG	ARG	X	14	34.380	56.570	14.541	0.00	0.00
ATOM	213	HG2	ARG	X	14	35.089	55.772	14.762	0.00	0.00
ATOM	214	HG3	ARG	X	14	33.491	56.160	14.062	0.00	0.00
ATOM	215	CD	ARG	X	14	35.089	57.406	13.514	0.00	0.00
ATOM	216	HD2	ARG	X	14	36.090	57.629	13.883	0.00	0.00
ATOM	217	HD3	ARG	X	14	35.221	56.801	12.616	0.00	0.00
ATOM	218	NE	ARG	X	14	34.260	58.591	13.104	0.00	0.00
ATOM	219	HE	ARG	X	14	33.521	58.382	12.448	0.00	0.00
ATOM	220	CZ	ARG	X	14	34.305	59.796	13.655	0.00	0.00
ATOM	221	NH1	ARG	X	14	35.189	60.123	14.582	0.00	0.00
ATOM	222	HH11	ARG	X	14	35.887	59.472	14.911	0.00	0.00
ATOM	223	HH12	ARG	X	14	35.261	61.097	14.838	0.00	0.00
ATOM	224	NH2	ARG	X	14	33.412	60.713	13.255	0.00	0.00
ATOM	225	HH21	ARG	X	14	32.752	60.477	12.529	0.00	0.00
ATOM	226	HH22	ARG	X	14	33.589	61.670	13.526	0.00	0.00
ATOM	227	C	ARG	X	14	34.706	55.425	17.562	0.00	0.00
ATOM	228	O	ARG	X	14	35.356	55.919	18.446	0.00	0.00
ATOM	229	N	GLY	X	15	34.950	54.151	17.150	0.00	0.00
ATOM	230	H	GLY	X	15	34.356	53.948	16.359	0.00	0.00
ATOM	231	CA	GLY	X	15	36.070	53.243	17.473	0.00	0.00
ATOM	232	HA2	GLY	X	15	36.679	53.707	18.248	0.00	0.00
ATOM	233	HA3	GLY	X	15	35.603	52.317	17.808	0.00	0.00
ATOM	234	C	GLY	X	15	36.959	52.810	16.319	0.00	0.00
ATOM	235	O	GLY	X	15	36.933	53.352	15.236	0.00	0.00
ATOM	236	N	ILE	X	16	37.769	51.723	16.529	0.00	0.00
ATOM	237	H	ILE	X	16	37.650	51.340	17.456	0.00	0.00
ATOM	238	CA	ILE	X	16	38.712	51.087	15.575	0.00	0.00
ATOM	239	HA	ILE	X	16	38.607	51.513	14.577	0.00	0.00
ATOM	240	CB	ILE	X	16	40.285	51.228	15.981	0.00	0.00
ATOM	241	HB	ILE	X	16	40.829	50.479	15.405	0.00	0.00
ATOM	242	CG2	ILE	X	16	40.748	52.638	15.468	0.00	0.00
ATOM	243	HG21	ILE	X	16	40.406	52.810	14.447	0.00	0.00
ATOM	244	HG22	ILE	X	16	41.825	52.804	15.502	0.00	0.00
ATOM	245	HG23	ILE	X	16	40.267	53.384	16.101	0.00	0.00
ATOM	246	CG1	ILE	X	16	40.812	50.973	17.406	0.00	0.00

ATOM	247	HG12	ILE	X	16	40.512	51.884	17.925	0.00	0.00
ATOM	248	HG13	ILE	X	16	40.203	50.160	17.800	0.00	0.00
ATOM	249	CD1	ILE	X	16	42.308	50.519	17.427	0.00	0.00
ATOM	250	HD11	ILE	X	16	42.978	51.115	16.807	0.00	0.00
ATOM	251	HD12	ILE	X	16	42.391	49.489	17.079	0.00	0.00
ATOM	252	HD13	ILE	X	16	42.719	50.432	18.432	0.00	0.00
ATOM	253	C	ILE	X	16	38.445	49.564	15.267	0.00	0.00
ATOM	254	O	ILE	X	16	38.059	48.810	16.131	0.00	0.00
ATOM	255	N	ARG	X	17	38.850	49.240	14.016	0.00	0.00
ATOM	256	H	ARG	X	17	39.033	49.962	13.334	0.00	0.00
ATOM	257	CA	ARG	X	17	38.927	47.817	13.570	0.00	0.00
ATOM	258	HA	ARG	X	17	38.210	47.217	14.131	0.00	0.00
ATOM	259	CB	ARG	X	17	38.601	47.828	12.070	0.00	0.00
ATOM	260	HB2	ARG	X	17	37.622	48.302	12.001	0.00	0.00
ATOM	261	HB3	ARG	X	17	39.337	48.407	11.514	0.00	0.00
ATOM	262	CG	ARG	X	17	38.422	46.395	11.528	0.00	0.00
ATOM	263	HG2	ARG	X	17	39.271	45.776	11.818	0.00	0.00
ATOM	264	HG3	ARG	X	17	37.559	46.032	12.085	0.00	0.00
ATOM	265	CD	ARG	X	17	38.208	46.570	9.949	0.00	0.00
ATOM	266	HD2	ARG	X	17	37.279	47.104	9.746	0.00	0.00
ATOM	267	HD3	ARG	X	17	38.988	47.157	9.466	0.00	0.00
ATOM	268	NE	ARG	X	17	38.291	45.214	9.426	0.00	0.00
ATOM	269	HE	ARG	X	17	37.424	44.751	9.197	0.00	0.00
ATOM	270	CZ	ARG	X	17	39.386	44.643	8.888	0.00	0.00
ATOM	271	NH1	ARG	X	17	40.612	45.098	9.068	0.00	0.00
ATOM	272	HH11	ARG	X	17	40.753	45.919	9.639	0.00	0.00
ATOM	273	HH12	ARG	X	17	41.380	44.759	8.507	0.00	0.00
ATOM	274	NH2	ARG	X	17	39.173	43.595	8.120	0.00	0.00
ATOM	275	HH21	ARG	X	17	38.227	43.347	7.866	0.00	0.00
ATOM	276	HH22	ARG	X	17	40.003	43.143	7.762	0.00	0.00
ATOM	277	C	ARG	X	17	40.330	47.292	13.828	0.00	0.00
ATOM	278	O	ARG	X	17	41.297	48.086	13.854	0.00	0.00
ATOM	279	N	LEU	X	18	40.373	45.982	14.088	0.00	0.00
ATOM	280	H	LEU	X	18	39.634	45.350	13.815	0.00	0.00
ATOM	281	CA	LEU	X	18	41.540	45.206	14.492	0.00	0.00
ATOM	282	HA	LEU	X	18	42.447	45.799	14.375	0.00	0.00
ATOM	283	CB	LEU	X	18	41.558	44.806	15.936	0.00	0.00
ATOM	284	HB2	LEU	X	18	40.651	44.245	16.160	0.00	0.00
ATOM	285	HB3	LEU	X	18	42.458	44.198	16.020	0.00	0.00
ATOM	286	CG	LEU	X	18	41.767	45.980	16.957	0.00	0.00
ATOM	287	HG	LEU	X	18	40.825	46.528	16.933	0.00	0.00
ATOM	288	CD1	LEU	X	18	41.930	45.505	18.366	0.00	0.00
ATOM	289	HD11	LEU	X	18	41.792	46.308	19.089	0.00	0.00
ATOM	290	HD12	LEU	X	18	42.887	45.047	18.615	0.00	0.00
ATOM	291	HD13	LEU	X	18	41.224	44.699	18.565	0.00	0.00
ATOM	292	CD2	LEU	X	18	42.934	46.942	16.620	0.00	0.00
ATOM	293	HD21	LEU	X	18	42.913	47.665	17.435	0.00	0.00
ATOM	294	HD22	LEU	X	18	43.898	46.433	16.626	0.00	0.00
ATOM	295	HD23	LEU	X	18	42.810	47.374	15.627	0.00	0.00
ATOM	296	C	LEU	X	18	41.655	43.952	13.618	0.00	0.00
ATOM	297	O	LEU	X	18	40.596	43.372	13.378	0.00	0.00
ATOM	298	N	LYS	X	19	42.890	43.444	13.349	0.00	0.00
ATOM	299	H	LYS	X	19	43.689	44.051	13.463	0.00	0.00
ATOM	300	CA	LYS	X	19	43.220	42.166	12.738	0.00	0.00
ATOM	301	HA	LYS	X	19	42.396	41.760	12.151	0.00	0.00
ATOM	302	CB	LYS	X	19	44.310	42.332	11.622	0.00	0.00
ATOM	303	HB2	LYS	X	19	45.280	42.539	12.074	0.00	0.00
ATOM	304	HB3	LYS	X	19	44.349	41.336	11.182	0.00	0.00
ATOM	305	CG	LYS	X	19	43.938	43.356	10.510	0.00	0.00
ATOM	306	HG2	LYS	X	19	43.138	42.934	9.902	0.00	0.00
ATOM	307	HG3	LYS	X	19	43.673	44.292	11.003	0.00	0.00
ATOM	308	CD	LYS	X	19	45.031	43.608	9.525	0.00	0.00
ATOM	309	HD2	LYS	X	19	45.129	42.826	8.772	0.00	0.00
ATOM	310	HD3	LYS	X	19	44.677	44.564	9.142	0.00	0.00
ATOM	311	CE	LYS	X	19	46.493	43.831	10.048	0.00	0.00
ATOM	312	HE2	LYS	X	19	46.416	44.134	11.092	0.00	0.00
ATOM	313	HE3	LYS	X	19	47.047	42.901	9.916	0.00	0.00

ATOM	314	NZ	LYS	X	19	47.305	44.851	9.366	0.00	0.00
ATOM	315	HZ1	LYS	X	19	48.184	44.933	9.856	0.00	0.00
ATOM	316	HZ2	LYS	X	19	47.398	44.672	8.377	0.00	0.00
ATOM	317	HZ3	LYS	X	19	46.996	45.802	9.507	0.00	0.00
ATOM	318	C	LYS	X	19	43.585	41.088	13.824	0.00	0.00
ATOM	319	O	LYS	X	19	43.913	41.369	14.981	0.00	0.00
ATOM	320	N	THR	X	20	43.514	39.743	13.505	0.00	0.00
ATOM	321	H	THR	X	20	43.375	39.582	12.517	0.00	0.00
ATOM	322	CA	THR	X	20	43.397	38.625	14.485	0.00	0.00
ATOM	323	HA	THR	X	20	44.304	38.649	15.090	0.00	0.00
ATOM	324	CB	THR	X	20	42.227	38.778	15.456	0.00	0.00
ATOM	325	HB	THR	X	20	41.717	37.840	15.672	0.00	0.00
ATOM	326	CG2	THR	X	20	42.642	39.244	16.863	0.00	0.00
ATOM	327	HG21	THR	X	20	41.920	39.014	17.647	0.00	0.00
ATOM	328	HG22	THR	X	20	42.865	40.310	16.832	0.00	0.00
ATOM	329	HG23	THR	X	20	43.601	38.766	17.062	0.00	0.00
ATOM	330	OG1	THR	X	20	41.286	39.695	15.021	0.00	0.00
ATOM	331	HG1	THR	X	20	40.769	39.331	14.298	0.00	0.00
ATOM	332	C	THR	X	20	43.342	37.277	13.657	0.00	0.00
ATOM	333	O	THR	X	20	43.194	37.264	12.438	0.00	0.00
ATOM	334	N	PRO	X	21	43.787	36.157	14.288	0.00	0.00
ATOM	335	CD	PRO	X	21	44.091	36.122	15.707	0.00	0.00
ATOM	336	HD2	PRO	X	21	43.214	36.439	16.272	0.00	0.00
ATOM	337	HD3	PRO	X	21	44.891	36.856	15.800	0.00	0.00
ATOM	338	CG	PRO	X	21	44.550	34.683	15.962	0.00	0.00
ATOM	339	HG2	PRO	X	21	43.749	34.044	16.333	0.00	0.00
ATOM	340	HG3	PRO	X	21	45.337	34.624	16.713	0.00	0.00
ATOM	341	CB	PRO	X	21	44.948	34.040	14.584	0.00	0.00
ATOM	342	HB2	PRO	X	21	44.635	33.002	14.469	0.00	0.00
ATOM	343	HB3	PRO	X	21	46.018	34.141	14.402	0.00	0.00
ATOM	344	CA	PRO	X	21	44.234	34.909	13.575	0.00	0.00
ATOM	345	HA	PRO	X	21	44.990	35.214	12.852	0.00	0.00
ATOM	346	C	PRO	X	21	43.117	34.114	12.887	0.00	0.00
ATOM	347	O	PRO	X	21	43.525	33.332	12.025	0.00	0.00
ATOM	348	N	GLY	X	22	41.814	34.363	13.179	0.00	0.00
ATOM	349	H	GLY	X	22	41.610	34.907	14.005	0.00	0.00
ATOM	350	CA	GLY	X	22	40.658	33.778	12.543	0.00	0.00
ATOM	351	HA2	GLY	X	22	40.933	32.957	11.881	0.00	0.00
ATOM	352	HA3	GLY	X	22	40.131	33.280	13.357	0.00	0.00
ATOM	353	C	GLY	X	22	39.797	34.828	11.867	0.00	0.00
ATOM	354	O	GLY	X	22	38.573	34.722	11.730	0.00	0.00
ATOM	355	N	GLY	X	23	40.468	35.977	11.559	0.00	0.00
ATOM	356	H	GLY	X	23	41.419	35.977	11.899	0.00	0.00
ATOM	357	CA	GLY	X	23	39.806	37.219	10.965	0.00	0.00
ATOM	358	HA2	GLY	X	23	40.350	37.679	10.141	0.00	0.00
ATOM	359	HA3	GLY	X	23	38.806	36.929	10.640	0.00	0.00
ATOM	360	C	GLY	X	23	39.624	38.382	11.985	0.00	0.00
ATOM	361	O	GLY	X	23	40.043	38.301	13.143	0.00	0.00
ATOM	362	N	PRO	X	24	39.074	39.558	11.546	0.00	0.00
ATOM	363	CD	PRO	X	24	38.595	39.817	10.212	0.00	0.00
ATOM	364	HD2	PRO	X	24	37.788	39.144	9.922	0.00	0.00
ATOM	365	HD3	PRO	X	24	39.407	39.777	9.486	0.00	0.00
ATOM	366	CG	PRO	X	24	37.859	41.152	10.392	0.00	0.00
ATOM	367	HG2	PRO	X	24	36.956	41.120	11.002	0.00	0.00
ATOM	368	HG3	PRO	X	24	37.720	41.579	9.399	0.00	0.00
ATOM	369	CB	PRO	X	24	38.786	41.998	11.273	0.00	0.00
ATOM	370	HB2	PRO	X	24	38.220	42.865	11.612	0.00	0.00
ATOM	371	HB3	PRO	X	24	39.694	42.297	10.748	0.00	0.00
ATOM	372	CA	PRO	X	24	39.156	40.844	12.221	0.00	0.00
ATOM	373	HA	PRO	X	24	40.187	40.924	12.568	0.00	0.00
ATOM	374	C	PRO	X	24	38.247	40.778	13.454	0.00	0.00
ATOM	375	O	PRO	X	24	37.282	40.013	13.517	0.00	0.00
ATOM	376	N	VAL	X	25	38.526	41.730	14.396	0.00	0.00
ATOM	377	H	VAL	X	25	39.291	42.375	14.253	0.00	0.00
ATOM	378	CA	VAL	X	25	37.577	42.271	15.430	0.00	0.00
ATOM	379	HA	VAL	X	25	36.594	41.919	15.116	0.00	0.00
ATOM	380	CB	VAL	X	25	37.988	41.569	16.749	0.00	0.00

ATOM	381	HB	VAL	X	25	37.236	41.845	17.488	0.00	0.00
ATOM	382	CG1	VAL	X	25	38.042	40.051	16.588	0.00	0.00
ATOM	383	HG11	VAL	X	25	38.252	39.607	17.561	0.00	0.00
ATOM	384	HG12	VAL	X	25	37.030	39.791	16.277	0.00	0.00
ATOM	385	HG13	VAL	X	25	38.781	39.742	15.849	0.00	0.00
ATOM	386	CG2	VAL	X	25	39.360	42.038	17.240	0.00	0.00
ATOM	387	HG21	VAL	X	25	39.225	43.072	17.556	0.00	0.00
ATOM	388	HG22	VAL	X	25	40.165	41.984	16.507	0.00	0.00
ATOM	389	HG23	VAL	X	25	39.757	41.591	18.153	0.00	0.00
ATOM	390	C	VAL	X	25	37.587	43.777	15.602	0.00	0.00
ATOM	391	O	VAL	X	25	37.912	44.487	14.647	0.00	0.00
ATOM	392	N	SER	X	26	37.166	44.432	16.688	0.00	0.00
ATOM	393	H	SER	X	26	36.931	43.902	17.515	0.00	0.00
ATOM	394	CA	SER	X	26	37.198	45.892	16.925	0.00	0.00
ATOM	395	HA	SER	X	26	38.156	46.204	16.508	0.00	0.00
ATOM	396	CB	SER	X	26	35.938	46.514	16.188	0.00	0.00
ATOM	397	HB2	SER	X	26	36.046	47.597	16.247	0.00	0.00
ATOM	398	HB3	SER	X	26	36.007	46.269	15.129	0.00	0.00
ATOM	399	OG	SER	X	26	34.657	46.124	16.650	0.00	0.00
ATOM	400	HG	SER	X	26	34.660	45.259	17.066	0.00	0.00
ATOM	401	C	SER	X	26	37.310	46.282	18.389	0.00	0.00
ATOM	402	O	SER	X	26	37.184	45.487	19.324	0.00	0.00
ATOM	403	N	ALA	X	27	37.380	47.557	18.656	0.00	0.00
ATOM	404	H	ALA	X	27	37.440	48.214	17.891	0.00	0.00
ATOM	405	CA	ALA	X	27	37.661	48.115	19.985	0.00	0.00
ATOM	406	HA	ALA	X	27	37.034	47.579	20.697	0.00	0.00
ATOM	407	CB	ALA	X	27	39.104	47.804	20.355	0.00	0.00
ATOM	408	HB1	ALA	X	27	39.300	46.743	20.503	0.00	0.00
ATOM	409	HB2	ALA	X	27	39.217	48.239	21.348	0.00	0.00
ATOM	410	HB3	ALA	X	27	39.804	48.271	19.662	0.00	0.00
ATOM	411	C	ALA	X	27	37.372	49.619	19.988	0.00	0.00
ATOM	412	O	ALA	X	27	37.506	50.362	19.011	0.00	0.00
ATOM	413	N	PHE	X	28	36.959	50.120	21.231	0.00	0.00
ATOM	414	H	PHE	X	28	36.588	49.455	21.895	0.00	0.00
ATOM	415	CA	PHE	X	28	36.882	51.513	21.642	0.00	0.00
ATOM	416	HA	PHE	X	28	37.361	52.115	20.870	0.00	0.00
ATOM	417	CB	PHE	X	28	35.416	51.845	21.736	0.00	0.00
ATOM	418	HB2	PHE	X	28	34.953	51.286	22.549	0.00	0.00
ATOM	419	HB3	PHE	X	28	35.431	52.902	22.001	0.00	0.00
ATOM	420	CG	PHE	X	28	34.467	51.729	20.517	0.00	0.00
ATOM	421	CD1	PHE	X	28	34.109	50.439	20.045	0.00	0.00
ATOM	422	HD1	PHE	X	28	34.502	49.483	20.356	0.00	0.00
ATOM	423	CE1	PHE	X	28	33.216	50.305	18.992	0.00	0.00
ATOM	424	HE1	PHE	X	28	33.044	49.334	18.551	0.00	0.00
ATOM	425	CZ	PHE	X	28	32.677	51.404	18.352	0.00	0.00
ATOM	426	HZ	PHE	X	28	31.875	51.231	17.649	0.00	0.00
ATOM	427	CE2	PHE	X	28	32.909	52.673	18.890	0.00	0.00
ATOM	428	HE2	PHE	X	28	32.459	53.580	18.514	0.00	0.00
ATOM	429	CD2	PHE	X	28	33.814	52.833	19.908	0.00	0.00
ATOM	430	HD2	PHE	X	28	34.171	53.788	20.265	0.00	0.00
ATOM	431	C	PHE	X	28	37.568	51.797	23.051	0.00	0.00
ATOM	432	O	PHE	X	28	37.477	50.908	23.916	0.00	0.00
ATOM	433	N	LEU	X	29	38.346	52.905	23.130	0.00	0.00
ATOM	434	H	LEU	X	29	38.284	53.626	22.425	0.00	0.00
ATOM	435	CA	LEU	X	29	39.389	53.142	24.204	0.00	0.00
ATOM	436	HA	LEU	X	29	39.130	52.543	25.077	0.00	0.00
ATOM	437	CB	LEU	X	29	40.787	52.642	23.727	0.00	0.00
ATOM	438	HB2	LEU	X	29	40.910	53.222	22.812	0.00	0.00
ATOM	439	HB3	LEU	X	29	41.531	52.948	24.462	0.00	0.00
ATOM	440	CG	LEU	X	29	40.883	51.116	23.483	0.00	0.00
ATOM	441	HG	LEU	X	29	39.995	50.599	23.846	0.00	0.00
ATOM	442	CD1	LEU	X	29	41.028	50.816	21.934	0.00	0.00
ATOM	443	HD11	LEU	X	29	41.576	51.656	21.507	0.00	0.00
ATOM	444	HD12	LEU	X	29	40.045	50.946	21.481	0.00	0.00
ATOM	445	HD13	LEU	X	29	41.446	49.851	21.645	0.00	0.00
ATOM	446	CD2	LEU	X	29	42.117	50.536	24.127	0.00	0.00
ATOM	447	HD21	LEU	X	29	42.950	51.068	23.667	0.00	0.00

ATOM	448	HD22	LEU	X	29	42.012	50.598	25.211	0.00	0.00
ATOM	449	HD23	LEU	X	29	42.179	49.486	23.841	0.00	0.00
ATOM	450	C	LEU	X	29	39.419	54.581	24.612	0.00	0.00
ATOM	451	O	LEU	X	29	39.199	55.410	23.708	0.00	0.00
ATOM	452	N	GLY	X	30	39.770	54.887	25.862	0.00	0.00
ATOM	453	H	GLY	X	30	39.985	54.155	26.523	0.00	0.00
ATOM	454	CA	GLY	X	30	39.781	56.251	26.397	0.00	0.00
ATOM	455	HA2	GLY	X	30	40.159	56.289	27.419	0.00	0.00
ATOM	456	HA3	GLY	X	30	40.458	56.883	25.822	0.00	0.00
ATOM	457	C	GLY	X	30	38.404	56.942	26.406	0.00	0.00
ATOM	458	O	GLY	X	30	38.288	58.171	26.208	0.00	0.00
ATOM	459	N	ILE	X	31	37.374	56.111	26.498	0.00	0.00
ATOM	460	H	ILE	X	31	37.580	55.131	26.628	0.00	0.00
ATOM	461	CA	ILE	X	31	35.992	56.451	26.607	0.00	0.00
ATOM	462	HA	ILE	X	31	35.883	57.120	25.754	0.00	0.00
ATOM	463	CB	ILE	X	31	35.078	55.211	26.563	0.00	0.00
ATOM	464	HB	ILE	X	31	35.286	54.684	27.494	0.00	0.00
ATOM	465	CG2	ILE	X	31	33.659	55.720	26.666	0.00	0.00
ATOM	466	HG21	ILE	X	31	33.010	55.020	26.140	0.00	0.00
ATOM	467	HG22	ILE	X	31	33.598	56.653	26.106	0.00	0.00
ATOM	468	HG23	ILE	X	31	33.337	55.806	27.704	0.00	0.00
ATOM	469	CG1	ILE	X	31	35.398	54.300	25.335	0.00	0.00
ATOM	470	HG12	ILE	X	31	34.953	54.748	24.446	0.00	0.00
ATOM	471	HG13	ILE	X	31	36.469	54.250	25.134	0.00	0.00
ATOM	472	CD1	ILE	X	31	34.843	52.901	25.576	0.00	0.00
ATOM	473	HD11	ILE	X	31	33.753	52.913	25.564	0.00	0.00
ATOM	474	HD12	ILE	X	31	35.176	52.365	26.465	0.00	0.00
ATOM	475	HD13	ILE	X	31	35.157	52.261	24.751	0.00	0.00
ATOM	476	C	ILE	X	31	35.796	57.180	27.902	0.00	0.00
ATOM	477	O	ILE	X	31	36.140	56.528	28.924	0.00	0.00
ATOM	478	N	PRO	X	32	35.413	58.459	27.941	0.00	0.00
ATOM	479	CD	PRO	X	32	35.283	59.514	26.907	0.00	0.00
ATOM	480	HD2	PRO	X	32	34.635	59.190	26.092	0.00	0.00
ATOM	481	HD3	PRO	X	32	36.266	59.765	26.509	0.00	0.00
ATOM	482	CG	PRO	X	32	34.750	60.862	27.464	0.00	0.00
ATOM	483	HG2	PRO	X	32	33.677	60.905	27.277	0.00	0.00
ATOM	484	HG3	PRO	X	32	35.231	61.736	27.023	0.00	0.00
ATOM	485	CB	PRO	X	32	35.162	60.681	28.874	0.00	0.00
ATOM	486	HB2	PRO	X	32	34.493	61.261	29.511	0.00	0.00
ATOM	487	HB3	PRO	X	32	36.179	61.014	29.078	0.00	0.00
ATOM	488	CA	PRO	X	32	35.120	59.166	29.154	0.00	0.00
ATOM	489	HA	PRO	X	32	35.841	58.821	29.894	0.00	0.00
ATOM	490	C	PRO	X	32	33.701	58.803	29.722	0.00	0.00
ATOM	491	O	PRO	X	32	32.673	59.278	29.198	0.00	0.00
ATOM	492	N	PHE	X	33	33.680	58.010	30.785	0.00	0.00
ATOM	493	H	PHE	X	33	34.556	57.650	31.136	0.00	0.00
ATOM	494	CA	PHE	X	33	32.498	57.727	31.640	0.00	0.00
ATOM	495	HA	PHE	X	33	31.633	57.736	30.976	0.00	0.00
ATOM	496	CB	PHE	X	33	32.586	56.322	32.196	0.00	0.00
ATOM	497	HB2	PHE	X	33	31.608	56.032	32.579	0.00	0.00
ATOM	498	HB3	PHE	X	33	32.667	55.720	31.291	0.00	0.00
ATOM	499	CG	PHE	X	33	33.614	56.046	33.291	0.00	0.00
ATOM	500	CD1	PHE	X	33	33.184	56.134	34.659	0.00	0.00
ATOM	501	HD1	PHE	X	33	32.128	56.303	34.808	0.00	0.00
ATOM	502	CE1	PHE	X	33	34.068	56.031	35.792	0.00	0.00
ATOM	503	HE1	PHE	X	33	33.712	56.103	36.809	0.00	0.00
ATOM	504	CZ	PHE	X	33	35.385	55.694	35.564	0.00	0.00
ATOM	505	HZ	PHE	X	33	36.009	55.445	36.409	0.00	0.00
ATOM	506	CE2	PHE	X	33	35.849	55.414	34.296	0.00	0.00
ATOM	507	HE2	PHE	X	33	36.859	55.065	34.144	0.00	0.00
ATOM	508	CD2	PHE	X	33	34.997	55.765	33.126	0.00	0.00
ATOM	509	HD2	PHE	X	33	35.408	55.843	32.131	0.00	0.00
ATOM	510	C	PHE	X	33	32.214	58.726	32.810	0.00	0.00
ATOM	511	O	PHE	X	33	31.164	58.853	33.334	0.00	0.00
ATOM	512	N	ALA	X	34	33.290	59.390	33.244	0.00	0.00
ATOM	513	H	ALA	X	34	34.166	59.160	32.796	0.00	0.00
ATOM	514	CA	ALA	X	34	33.449	60.259	34.439	0.00	0.00

ATOM	515	HA	ALA	X	34	32.499	60.522	34.905	0.00	0.00
ATOM	516	CB	ALA	X	34	34.070	59.444	35.551	0.00	0.00
ATOM	517	HB1	ALA	X	34	33.390	58.607	35.709	0.00	0.00
ATOM	518	HB2	ALA	X	34	34.147	59.981	36.497	0.00	0.00
ATOM	519	HB3	ALA	X	34	35.021	59.081	35.162	0.00	0.00
ATOM	520	C	ALA	X	34	34.337	61.487	34.078	0.00	0.00
ATOM	521	O	ALA	X	34	35.194	61.394	33.224	0.00	0.00
ATOM	522	N	GLU	X	35	34.237	62.543	34.915	0.00	0.00
ATOM	523	H	GLU	X	35	33.816	62.315	35.804	0.00	0.00
ATOM	524	CA	GLU	X	35	35.031	63.797	34.798	0.00	0.00
ATOM	525	HA	GLU	X	35	34.913	64.252	33.814	0.00	0.00
ATOM	526	CB	GLU	X	35	34.451	64.859	35.824	0.00	0.00
ATOM	527	HB2	GLU	X	35	34.534	64.357	36.788	0.00	0.00
ATOM	528	HB3	GLU	X	35	35.045	65.773	35.840	0.00	0.00
ATOM	529	CG	GLU	X	35	32.944	65.154	35.685	0.00	0.00
ATOM	530	HG2	GLU	X	35	32.284	64.333	35.402	0.00	0.00
ATOM	531	HG3	GLU	X	35	32.563	65.609	36.599	0.00	0.00
ATOM	532	CD	GLU	X	35	32.685	66.204	34.596	0.00	0.00
ATOM	533	OE1	GLU	X	35	32.522	65.844	33.420	0.00	0.00
ATOM	534	OE2	GLU	X	35	32.650	67.368	34.936	0.00	0.00
ATOM	535	C	GLU	X	35	36.507	63.480	35.178	0.00	0.00
ATOM	536	O	GLU	X	35	36.801	62.518	35.876	0.00	0.00
ATOM	537	N	PRO	X	36	37.472	64.366	34.846	0.00	0.00
ATOM	538	CD	PRO	X	36	37.447	65.352	33.761	0.00	0.00
ATOM	539	HD2	PRO	X	36	36.508	65.904	33.728	0.00	0.00
ATOM	540	HD3	PRO	X	36	37.655	64.872	32.804	0.00	0.00
ATOM	541	CG	PRO	X	36	38.614	66.312	34.025	0.00	0.00
ATOM	542	HG2	PRO	X	36	38.218	67.036	34.737	0.00	0.00
ATOM	543	HG3	PRO	X	36	38.821	66.912	33.139	0.00	0.00
ATOM	544	CB	PRO	X	36	39.623	65.297	34.484	0.00	0.00
ATOM	545	HB2	PRO	X	36	40.486	65.758	34.964	0.00	0.00
ATOM	546	HB3	PRO	X	36	39.965	64.642	33.683	0.00	0.00
ATOM	547	CA	PRO	X	36	38.835	64.452	35.441	0.00	0.00
ATOM	548	HA	PRO	X	36	39.291	63.463	35.469	0.00	0.00
ATOM	549	C	PRO	X	36	38.830	64.934	36.950	0.00	0.00
ATOM	550	O	PRO	X	36	38.298	66.017	37.230	0.00	0.00
ATOM	551	N	PRO	X	37	39.237	64.081	37.915	0.00	0.00
ATOM	552	CD	PRO	X	37	39.565	62.662	37.747	0.00	0.00
ATOM	553	HD2	PRO	X	37	40.464	62.447	37.169	0.00	0.00
ATOM	554	HD3	PRO	X	37	38.740	62.201	37.204	0.00	0.00
ATOM	555	CG	PRO	X	37	39.666	62.052	39.137	0.00	0.00
ATOM	556	HG2	PRO	X	37	40.694	62.099	39.498	0.00	0.00
ATOM	557	HG3	PRO	X	37	39.366	61.006	39.204	0.00	0.00
ATOM	558	CB	PRO	X	37	38.753	63.027	39.882	0.00	0.00
ATOM	559	HB2	PRO	X	37	39.071	62.860	40.911	0.00	0.00
ATOM	560	HB3	PRO	X	37	37.708	62.796	39.675	0.00	0.00
ATOM	561	CA	PRO	X	37	39.072	64.385	39.312	0.00	0.00
ATOM	562	HA	PRO	X	37	38.207	65.009	39.540	0.00	0.00
ATOM	563	C	PRO	X	37	40.305	65.056	39.829	0.00	0.00
ATOM	564	O	PRO	X	37	40.831	64.680	40.852	0.00	0.00
ATOM	565	N	MET	X	38	40.795	66.125	39.137	0.00	0.00
ATOM	566	H	MET	X	38	40.191	66.633	38.507	0.00	0.00
ATOM	567	CA	MET	X	38	42.047	66.777	39.515	0.00	0.00
ATOM	568	HA	MET	X	38	42.782	66.026	39.806	0.00	0.00
ATOM	569	CB	MET	X	38	42.689	67.339	38.206	0.00	0.00
ATOM	570	HB2	MET	X	38	43.571	67.941	38.430	0.00	0.00
ATOM	571	HB3	MET	X	38	43.024	66.559	37.523	0.00	0.00
ATOM	572	CG	MET	X	38	41.710	68.156	37.368	0.00	0.00
ATOM	573	HG2	MET	X	38	40.960	67.438	37.035	0.00	0.00
ATOM	574	HG3	MET	X	38	41.234	68.972	37.912	0.00	0.00
ATOM	575	SD	MET	X	38	42.400	68.765	35.829	0.00	0.00
ATOM	576	CE	MET	X	38	40.948	69.578	35.250	0.00	0.00
ATOM	577	HE1	MET	X	38	40.532	70.291	35.962	0.00	0.00
ATOM	578	HE2	MET	X	38	41.263	70.170	34.390	0.00	0.00
ATOM	579	HE3	MET	X	38	40.155	68.877	34.992	0.00	0.00
ATOM	580	C	MET	X	38	41.976	67.925	40.600	0.00	0.00
ATOM	581	O	MET	X	38	40.962	68.498	40.843	0.00	0.00

ATOM	582	N	GLY	X	39	43.101	68.316	41.174	0.00	0.00
ATOM	583	H	GLY	X	39	43.850	67.639	41.162	0.00	0.00
ATOM	584	CA	GLY	X	39	43.215	69.658	41.833	0.00	0.00
ATOM	585	HA2	GLY	X	39	44.254	69.909	42.048	0.00	0.00
ATOM	586	HA3	GLY	X	39	42.898	70.427	41.128	0.00	0.00
ATOM	587	C	GLY	X	39	42.298	69.737	43.050	0.00	0.00
ATOM	588	O	GLY	X	39	42.570	68.913	43.951	0.00	0.00
ATOM	589	N	PRO	X	40	41.218	70.607	43.003	0.00	0.00
ATOM	590	CD	PRO	X	40	41.001	71.675	42.069	0.00	0.00
ATOM	591	HD2	PRO	X	40	40.843	71.325	41.049	0.00	0.00
ATOM	592	HD3	PRO	X	40	41.890	72.303	42.120	0.00	0.00
ATOM	593	CG	PRO	X	40	39.802	72.537	42.505	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.250	72.789	41.600	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.038	73.464	43.028	0.00	0.00
ATOM	596	CB	PRO	X	40	39.075	71.525	43.419	0.00	0.00
ATOM	597	HB2	PRO	X	40	38.285	71.037	42.848	0.00	0.00
ATOM	598	HB3	PRO	X	40	38.542	71.946	44.272	0.00	0.00
ATOM	599	CA	PRO	X	40	40.093	70.504	43.979	0.00	0.00
ATOM	600	HA	PRO	X	40	40.438	70.999	44.887	0.00	0.00
ATOM	601	C	PRO	X	40	39.498	69.120	44.332	0.00	0.00
ATOM	602	O	PRO	X	40	39.106	68.898	45.483	0.00	0.00
ATOM	603	N	ARG	X	41	39.577	68.181	43.396	0.00	0.00
ATOM	604	H	ARG	X	41	39.889	68.523	42.498	0.00	0.00
ATOM	605	CA	ARG	X	41	38.930	66.838	43.439	0.00	0.00
ATOM	606	HA	ARG	X	41	38.249	66.809	44.289	0.00	0.00
ATOM	607	CB	ARG	X	41	38.160	66.403	42.154	0.00	0.00
ATOM	608	HB2	ARG	X	41	38.704	66.713	41.262	0.00	0.00
ATOM	609	HB3	ARG	X	41	37.940	65.338	42.076	0.00	0.00
ATOM	610	CG	ARG	X	41	36.927	67.303	42.177	0.00	0.00
ATOM	611	HG2	ARG	X	41	36.466	67.257	43.164	0.00	0.00
ATOM	612	HG3	ARG	X	41	37.194	68.340	41.974	0.00	0.00
ATOM	613	CD	ARG	X	41	35.851	66.910	41.180	0.00	0.00
ATOM	614	HD2	ARG	X	41	35.688	65.832	41.197	0.00	0.00
ATOM	615	HD3	ARG	X	41	34.912	67.398	41.441	0.00	0.00
ATOM	616	NE	ARG	X	41	36.276	67.363	39.883	0.00	0.00
ATOM	617	HE	ARG	X	41	37.267	67.516	39.764	0.00	0.00
ATOM	618	CZ	ARG	X	41	35.485	67.645	38.921	0.00	0.00
ATOM	619	NH1	ARG	X	41	34.174	67.628	39.045	0.00	0.00
ATOM	620	HH11	ARG	X	41	33.704	67.249	39.854	0.00	0.00
ATOM	621	HH12	ARG	X	41	33.582	68.096	38.374	0.00	0.00
ATOM	622	NH2	ARG	X	41	36.015	67.924	37.771	0.00	0.00
ATOM	623	HH21	ARG	X	41	37.000	68.103	37.637	0.00	0.00
ATOM	624	HH22	ARG	X	41	35.472	68.156	36.951	0.00	0.00
ATOM	625	C	ARG	X	41	39.890	65.689	43.773	0.00	0.00
ATOM	626	O	ARG	X	41	39.431	64.531	44.011	0.00	0.00
ATOM	627	N	ARG	X	42	41.138	66.014	43.963	0.00	0.00
ATOM	628	H	ARG	X	42	41.488	66.897	43.621	0.00	0.00
ATOM	629	CA	ARG	X	42	42.177	65.119	44.459	0.00	0.00
ATOM	630	HA	ARG	X	42	42.140	64.338	43.699	0.00	0.00
ATOM	631	CB	ARG	X	42	43.574	65.765	44.311	0.00	0.00
ATOM	632	HB2	ARG	X	42	43.662	66.216	43.323	0.00	0.00
ATOM	633	HB3	ARG	X	42	43.639	66.530	45.084	0.00	0.00
ATOM	634	CG	ARG	X	42	44.809	64.791	44.497	0.00	0.00
ATOM	635	HG2	ARG	X	42	44.605	64.112	45.325	0.00	0.00
ATOM	636	HG3	ARG	X	42	44.844	64.213	43.573	0.00	0.00
ATOM	637	CD	ARG	X	42	46.117	65.541	44.811	0.00	0.00
ATOM	638	HD2	ARG	X	42	45.891	66.107	45.714	0.00	0.00
ATOM	639	HD3	ARG	X	42	46.931	64.843	45.007	0.00	0.00
ATOM	640	NE	ARG	X	42	46.494	66.352	43.647	0.00	0.00
ATOM	641	HE	ARG	X	42	45.971	66.276	42.786	0.00	0.00
ATOM	642	CZ	ARG	X	42	47.297	67.410	43.703	0.00	0.00
ATOM	643	NH1	ARG	X	42	48.043	67.765	44.760	0.00	0.00
ATOM	644	HH11	ARG	X	42	48.152	67.195	45.586	0.00	0.00
ATOM	645	HH12	ARG	X	42	48.774	68.429	44.550	0.00	0.00
ATOM	646	NH2	ARG	X	42	47.411	68.244	42.711	0.00	0.00
ATOM	647	HH21	ARG	X	42	46.832	68.154	41.888	0.00	0.00
ATOM	648	HH22	ARG	X	42	47.979	69.078	42.745	0.00	0.00

ATOM	649	C	ARG	X	42	41.878	64.526	45.822	0.00	0.00
ATOM	650	O	ARG	X	42	41.371	65.295	46.679	0.00	0.00
ATOM	651	N	PHE	X	43	41.915	63.210	45.862	0.00	0.00
ATOM	652	H	PHE	X	43	42.250	62.649	45.092	0.00	0.00
ATOM	653	CA	PHE	X	43	41.531	62.398	47.052	0.00	0.00
ATOM	654	HA	PHE	X	43	41.842	61.379	46.822	0.00	0.00
ATOM	655	CB	PHE	X	43	42.259	62.857	48.350	0.00	0.00
ATOM	656	HB2	PHE	X	43	41.768	63.725	48.791	0.00	0.00
ATOM	657	HB3	PHE	X	43	42.227	62.092	49.126	0.00	0.00
ATOM	658	CG	PHE	X	43	43.746	63.140	48.161	0.00	0.00
ATOM	659	CD1	PHE	X	43	44.667	62.126	47.936	0.00	0.00
ATOM	660	HD1	PHE	X	43	44.344	61.098	48.007	0.00	0.00
ATOM	661	CE1	PHE	X	43	46.099	62.380	47.890	0.00	0.00
ATOM	662	HE1	PHE	X	43	46.823	61.582	47.801	0.00	0.00
ATOM	663	CZ	PHE	X	43	46.512	63.696	48.064	0.00	0.00
ATOM	664	HZ	PHE	X	43	47.574	63.844	48.196	0.00	0.00
ATOM	665	CE2	PHE	X	43	45.599	64.770	48.173	0.00	0.00
ATOM	666	HE2	PHE	X	43	45.893	65.805	48.269	0.00	0.00
ATOM	667	CD2	PHE	X	43	44.195	64.508	48.219	0.00	0.00
ATOM	668	HD2	PHE	X	43	43.485	65.304	48.392	0.00	0.00
ATOM	669	C	PHE	X	43	39.998	62.404	47.420	0.00	0.00
ATOM	670	O	PHE	X	43	39.736	61.983	48.464	0.00	0.00
ATOM	671	N	LEU	X	44	39.082	62.843	46.540	0.00	0.00
ATOM	672	H	LEU	X	44	39.474	63.197	45.678	0.00	0.00
ATOM	673	CA	LEU	X	44	37.681	62.800	46.823	0.00	0.00
ATOM	674	HA	LEU	X	44	37.476	62.483	47.845	0.00	0.00
ATOM	675	CB	LEU	X	44	37.216	64.271	46.592	0.00	0.00
ATOM	676	HB2	LEU	X	44	37.349	64.648	45.578	0.00	0.00
ATOM	677	HB3	LEU	X	44	36.149	64.397	46.776	0.00	0.00
ATOM	678	CG	LEU	X	44	37.818	65.383	47.433	0.00	0.00
ATOM	679	HG	LEU	X	44	38.820	65.549	47.038	0.00	0.00
ATOM	680	CD1	LEU	X	44	37.052	66.707	47.262	0.00	0.00
ATOM	681	HD11	LEU	X	44	37.670	67.565	47.526	0.00	0.00
ATOM	682	HD12	LEU	X	44	36.102	66.685	47.796	0.00	0.00
ATOM	683	HD13	LEU	X	44	36.862	66.945	46.216	0.00	0.00
ATOM	684	CD2	LEU	X	44	37.806	65.035	48.961	0.00	0.00
ATOM	685	HD21	LEU	X	44	38.481	64.225	49.239	0.00	0.00
ATOM	686	HD22	LEU	X	44	37.994	65.934	49.547	0.00	0.00
ATOM	687	HD23	LEU	X	44	36.823	64.640	49.221	0.00	0.00
ATOM	688	C	LEU	X	44	36.934	61.843	45.791	0.00	0.00
ATOM	689	O	LEU	X	44	37.467	61.462	44.749	0.00	0.00
ATOM	690	N	PRO	X	45	35.634	61.487	46.051	0.00	0.00
ATOM	691	CD	PRO	X	45	34.887	61.776	47.234	0.00	0.00
ATOM	692	HD2	PRO	X	45	34.503	62.794	47.178	0.00	0.00
ATOM	693	HD3	PRO	X	45	35.493	61.731	48.139	0.00	0.00
ATOM	694	CG	PRO	X	45	33.760	60.752	47.277	0.00	0.00
ATOM	695	HG2	PRO	X	45	32.891	61.223	47.736	0.00	0.00
ATOM	696	HG3	PRO	X	45	34.035	59.798	47.727	0.00	0.00
ATOM	697	CB	PRO	X	45	33.508	60.532	45.767	0.00	0.00
ATOM	698	HB2	PRO	X	45	32.758	61.259	45.455	0.00	0.00
ATOM	699	HB3	PRO	X	45	33.014	59.581	45.564	0.00	0.00
ATOM	700	CA	PRO	X	45	34.867	60.658	45.125	0.00	0.00
ATOM	701	HA	PRO	X	45	35.260	59.642	45.162	0.00	0.00
ATOM	702	C	PRO	X	45	34.647	61.234	43.725	0.00	0.00
ATOM	703	O	PRO	X	45	34.498	62.442	43.466	0.00	0.00
ATOM	704	N	PRO	X	46	34.542	60.338	42.748	0.00	0.00
ATOM	705	CD	PRO	X	46	34.693	58.864	42.937	0.00	0.00
ATOM	706	HD2	PRO	X	46	34.017	58.551	43.733	0.00	0.00
ATOM	707	HD3	PRO	X	46	35.703	58.534	43.178	0.00	0.00
ATOM	708	CG	PRO	X	46	34.305	58.313	41.563	0.00	0.00
ATOM	709	HG2	PRO	X	46	33.249	58.099	41.396	0.00	0.00
ATOM	710	HG3	PRO	X	46	34.820	57.370	41.378	0.00	0.00
ATOM	711	CB	PRO	X	46	34.842	59.337	40.645	0.00	0.00
ATOM	712	HB2	PRO	X	46	34.411	59.266	39.646	0.00	0.00
ATOM	713	HB3	PRO	X	46	35.927	59.253	40.586	0.00	0.00
ATOM	714	CA	PRO	X	46	34.504	60.657	41.326	0.00	0.00
ATOM	715	HA	PRO	X	46	35.326	61.339	41.111	0.00	0.00

ATOM	716	C	PRO	X	46	33.128	61.148	40.843	0.00	0.00
ATOM	717	O	PRO	X	46	32.090	60.910	41.495	0.00	0.00
ATOM	718	N	GLU	X	47	33.000	61.689	39.674	0.00	0.00
ATOM	719	H	GLU	X	47	33.743	61.645	38.991	0.00	0.00
ATOM	720	CA	GLU	X	47	31.760	62.442	39.230	0.00	0.00
ATOM	721	HA	GLU	X	47	30.963	62.076	39.878	0.00	0.00
ATOM	722	CB	GLU	X	47	32.101	63.931	39.364	0.00	0.00
ATOM	723	HB2	GLU	X	47	32.324	64.094	40.418	0.00	0.00
ATOM	724	HB3	GLU	X	47	32.918	64.204	38.696	0.00	0.00
ATOM	725	CG	GLU	X	47	30.964	64.880	39.062	0.00	0.00
ATOM	726	HG2	GLU	X	47	31.320	65.908	39.125	0.00	0.00
ATOM	727	HG3	GLU	X	47	30.673	64.640	38.040	0.00	0.00
ATOM	728	CD	GLU	X	47	29.722	64.725	39.836	0.00	0.00
ATOM	729	OE1	GLU	X	47	28.715	65.390	39.464	0.00	0.00
ATOM	730	OE2	GLU	X	47	29.658	64.021	40.864	0.00	0.00
ATOM	731	C	GLU	X	47	31.497	62.000	37.728	0.00	0.00
ATOM	732	O	GLU	X	47	32.447	61.910	36.965	0.00	0.00
ATOM	733	N	PRO	X	48	30.264	61.682	37.318	0.00	0.00
ATOM	734	CD	PRO	X	48	29.122	61.627	38.167	0.00	0.00
ATOM	735	HD2	PRO	X	48	28.995	62.420	38.904	0.00	0.00
ATOM	736	HD3	PRO	X	48	29.082	60.659	38.667	0.00	0.00
ATOM	737	CG	PRO	X	48	27.961	61.617	37.138	0.00	0.00
ATOM	738	HG2	PRO	X	48	27.692	62.621	36.809	0.00	0.00
ATOM	739	HG3	PRO	X	48	27.091	61.212	37.656	0.00	0.00
ATOM	740	CB	PRO	X	48	28.578	60.702	36.097	0.00	0.00
ATOM	741	HB2	PRO	X	48	28.027	60.807	35.163	0.00	0.00
ATOM	742	HB3	PRO	X	48	28.569	59.654	36.397	0.00	0.00
ATOM	743	CA	PRO	X	48	30.001	61.172	35.986	0.00	0.00
ATOM	744	HA	PRO	X	48	30.643	60.307	35.815	0.00	0.00
ATOM	745	C	PRO	X	48	30.226	62.260	34.847	0.00	0.00
ATOM	746	O	PRO	X	48	30.025	63.439	35.039	0.00	0.00
ATOM	747	N	LYS	X	49	30.711	61.806	33.669	0.00	0.00
ATOM	748	H	LYS	X	49	30.774	60.811	33.510	0.00	0.00
ATOM	749	CA	LYS	X	49	31.052	62.720	32.620	0.00	0.00
ATOM	750	HA	LYS	X	49	31.687	63.393	33.196	0.00	0.00
ATOM	751	CB	LYS	X	49	31.741	62.012	31.466	0.00	0.00
ATOM	752	HB2	LYS	X	49	32.664	61.575	31.849	0.00	0.00
ATOM	753	HB3	LYS	X	49	31.088	61.207	31.128	0.00	0.00
ATOM	754	CG	LYS	X	49	32.211	62.895	30.273	0.00	0.00
ATOM	755	HG2	LYS	X	49	32.599	62.261	29.475	0.00	0.00
ATOM	756	HG3	LYS	X	49	31.370	63.414	29.812	0.00	0.00
ATOM	757	CD	LYS	X	49	33.262	63.949	30.741	0.00	0.00
ATOM	758	HD2	LYS	X	49	32.765	64.776	31.249	0.00	0.00
ATOM	759	HD3	LYS	X	49	34.030	63.387	31.273	0.00	0.00
ATOM	760	CE	LYS	X	49	34.011	64.460	29.459	0.00	0.00
ATOM	761	HE2	LYS	X	49	33.973	63.736	28.645	0.00	0.00
ATOM	762	HE3	LYS	X	49	33.482	65.352	29.124	0.00	0.00
ATOM	763	NZ	LYS	X	49	35.395	64.828	29.714	0.00	0.00
ATOM	764	HZ1	LYS	X	49	36.002	64.237	30.263	0.00	0.00
ATOM	765	HZ2	LYS	X	49	35.934	65.187	28.939	0.00	0.00
ATOM	766	HZ3	LYS	X	49	35.390	65.631	30.328	0.00	0.00
ATOM	767	C	LYS	X	49	29.843	63.626	32.136	0.00	0.00
ATOM	768	O	LYS	X	49	28.741	63.167	31.896	0.00	0.00
ATOM	769	N	GLN	X	50	30.114	64.936	31.951	0.00	0.00
ATOM	770	H	GLN	X	50	31.020	65.175	32.328	0.00	0.00
ATOM	771	CA	GLN	X	50	29.390	66.023	31.298	0.00	0.00
ATOM	772	HA	GLN	X	50	28.400	65.884	31.732	0.00	0.00
ATOM	773	CB	GLN	X	50	29.905	67.444	31.667	0.00	0.00
ATOM	774	HB2	GLN	X	50	29.217	68.227	31.347	0.00	0.00
ATOM	775	HB3	GLN	X	50	30.009	67.459	32.752	0.00	0.00
ATOM	776	CG	GLN	X	50	31.323	67.697	31.035	0.00	0.00
ATOM	777	HG2	GLN	X	50	31.979	66.855	31.258	0.00	0.00
ATOM	778	HG3	GLN	X	50	31.259	67.778	29.950	0.00	0.00
ATOM	779	CD	GLN	X	50	32.016	68.957	31.519	0.00	0.00
ATOM	780	OE1	GLN	X	50	31.938	69.996	30.852	0.00	0.00
ATOM	781	NE2	GLN	X	50	32.728	68.893	32.643	0.00	0.00
ATOM	782	HE21	GLN	X	50	32.922	69.765	33.115	0.00	0.00

ATOM	783	HE22	GLN	X	50	32.449	68.186	33.308	0.00	0.00
ATOM	784	C	GLN	X	50	29.244	65.730	29.808	0.00	0.00
ATOM	785	O	GLN	X	50	30.282	65.622	29.066	0.00	0.00
ATOM	786	N	PRO	X	51	27.987	65.621	29.320	0.00	0.00
ATOM	787	CD	PRO	X	51	26.732	66.100	29.801	0.00	0.00
ATOM	788	HD2	PRO	X	51	26.757	67.146	29.494	0.00	0.00
ATOM	789	HD3	PRO	X	51	26.568	65.959	30.869	0.00	0.00
ATOM	790	CG	PRO	X	51	25.664	65.323	29.048	0.00	0.00
ATOM	791	HG2	PRO	X	51	24.935	66.048	28.686	0.00	0.00
ATOM	792	HG3	PRO	X	51	25.189	64.648	29.759	0.00	0.00
ATOM	793	CB	PRO	X	51	26.333	64.627	27.828	0.00	0.00
ATOM	794	HB2	PRO	X	51	25.802	64.858	26.905	0.00	0.00
ATOM	795	HB3	PRO	X	51	26.422	63.551	27.980	0.00	0.00
ATOM	796	CA	PRO	X	51	27.711	65.138	27.916	0.00	0.00
ATOM	797	HA	PRO	X	51	28.364	64.280	27.760	0.00	0.00
ATOM	798	C	PRO	X	51	28.008	66.176	26.784	0.00	0.00
ATOM	799	O	PRO	X	51	27.992	67.396	27.092	0.00	0.00
ATOM	800	N	TRP	X	52	28.293	65.690	25.621	0.00	0.00
ATOM	801	H	TRP	X	52	28.420	64.692	25.534	0.00	0.00
ATOM	802	CA	TRP	X	52	28.940	66.430	24.454	0.00	0.00
ATOM	803	HA	TRP	X	52	29.164	67.424	24.842	0.00	0.00
ATOM	804	CB	TRP	X	52	30.193	65.652	24.077	0.00	0.00
ATOM	805	HB2	TRP	X	52	30.656	66.096	23.197	0.00	0.00
ATOM	806	HB3	TRP	X	52	30.801	65.817	24.967	0.00	0.00
ATOM	807	CG	TRP	X	52	29.975	64.162	23.878	0.00	0.00
ATOM	808	CD1	TRP	X	52	29.799	63.649	22.643	0.00	0.00
ATOM	809	HD1	TRP	X	52	29.746	64.218	21.726	0.00	0.00
ATOM	810	NE1	TRP	X	52	29.826	62.256	22.717	0.00	0.00
ATOM	811	HE1	TRP	X	52	29.881	61.632	21.925	0.00	0.00
ATOM	812	CE2	TRP	X	52	29.892	61.839	23.989	0.00	0.00
ATOM	813	CZ2	TRP	X	52	29.912	60.587	24.546	0.00	0.00
ATOM	814	HZ2	TRP	X	52	29.704	59.709	23.953	0.00	0.00
ATOM	815	CH2	TRP	X	52	30.224	60.372	25.911	0.00	0.00
ATOM	816	HH2	TRP	X	52	30.354	59.386	26.331	0.00	0.00
ATOM	817	CZ3	TRP	X	52	30.407	61.493	26.750	0.00	0.00
ATOM	818	HZ3	TRP	X	52	30.484	61.462	27.827	0.00	0.00
ATOM	819	CE3	TRP	X	52	30.187	62.818	26.199	0.00	0.00
ATOM	820	HE3	TRP	X	52	30.298	63.600	26.934	0.00	0.00
ATOM	821	CD2	TRP	X	52	30.037	63.002	24.817	0.00	0.00
ATOM	822	C	TRP	X	52	28.048	66.643	23.221	0.00	0.00
ATOM	823	O	TRP	X	52	27.203	65.774	22.997	0.00	0.00
ATOM	824	N	SER	X	53	28.406	67.572	22.389	0.00	0.00
ATOM	825	H	SER	X	53	29.028	68.296	22.720	0.00	0.00
ATOM	826	CA	SER	X	53	28.000	67.714	20.897	0.00	0.00
ATOM	827	HA	SER	X	53	26.989	67.314	20.817	0.00	0.00
ATOM	828	CB	SER	X	53	28.140	69.164	20.480	0.00	0.00
ATOM	829	HB2	SER	X	53	29.166	69.468	20.689	0.00	0.00
ATOM	830	HB3	SER	X	53	28.013	69.082	19.401	0.00	0.00
ATOM	831	OG	SER	X	53	27.299	70.042	21.212	0.00	0.00
ATOM	832	HG	SER	X	53	26.427	70.078	20.811	0.00	0.00
ATOM	833	C	SER	X	53	28.806	66.792	20.000	0.00	0.00
ATOM	834	O	SER	X	53	29.953	66.458	20.137	0.00	0.00
ATOM	835	N	GLY	X	54	28.178	66.295	18.957	0.00	0.00
ATOM	836	H	GLY	X	54	27.171	66.372	18.942	0.00	0.00
ATOM	837	CA	GLY	X	54	28.837	65.446	17.985	0.00	0.00
ATOM	838	HA2	GLY	X	54	28.308	65.450	17.032	0.00	0.00
ATOM	839	HA3	GLY	X	54	29.769	66.003	17.887	0.00	0.00
ATOM	840	C	GLY	X	54	29.324	64.066	18.423	0.00	0.00
ATOM	841	O	GLY	X	54	28.754	63.515	19.373	0.00	0.00
ATOM	842	N	VAL	X	55	30.372	63.597	17.768	0.00	0.00
ATOM	843	H	VAL	X	55	30.677	64.089	16.941	0.00	0.00
ATOM	844	CA	VAL	X	55	30.927	62.353	18.065	0.00	0.00
ATOM	845	HA	VAL	X	55	30.288	61.831	18.777	0.00	0.00
ATOM	846	CB	VAL	X	55	31.254	61.465	16.759	0.00	0.00
ATOM	847	HB	VAL	X	55	31.890	62.090	16.132	0.00	0.00
ATOM	848	CG1	VAL	X	55	31.934	60.109	17.059	0.00	0.00
ATOM	849	HG11	VAL	X	55	32.910	60.118	17.545	0.00	0.00

ATOM	850	HG12	VAL	X	55	31.289	59.426	17.611	0.00	0.00
ATOM	851	HG13	VAL	X	55	31.998	59.571	16.113	0.00	0.00
ATOM	852	CG2	VAL	X	55	29.945	61.245	15.948	0.00	0.00
ATOM	853	HG21	VAL	X	55	29.367	60.410	16.344	0.00	0.00
ATOM	854	HG22	VAL	X	55	30.190	61.103	14.895	0.00	0.00
ATOM	855	HG23	VAL	X	55	29.368	62.169	15.964	0.00	0.00
ATOM	856	C	VAL	X	55	32.264	62.465	18.808	0.00	0.00
ATOM	857	O	VAL	X	55	33.081	63.265	18.381	0.00	0.00
ATOM	858	N	VAL	X	56	32.376	61.700	19.881	0.00	0.00
ATOM	859	H	VAL	X	56	31.558	61.144	20.084	0.00	0.00
ATOM	860	CA	VAL	X	56	33.653	61.476	20.552	0.00	0.00
ATOM	861	HA	VAL	X	56	34.277	62.370	20.561	0.00	0.00
ATOM	862	CB	VAL	X	56	33.357	61.220	22.009	0.00	0.00
ATOM	863	HB	VAL	X	56	32.383	60.745	22.127	0.00	0.00
ATOM	864	CG1	VAL	X	56	34.356	60.505	22.892	0.00	0.00
ATOM	865	HG11	VAL	X	56	35.333	60.975	22.783	0.00	0.00
ATOM	866	HG12	VAL	X	56	33.978	60.443	23.913	0.00	0.00
ATOM	867	HG13	VAL	X	56	34.586	59.537	22.447	0.00	0.00
ATOM	868	CG2	VAL	X	56	33.153	62.619	22.630	0.00	0.00
ATOM	869	HG21	VAL	X	56	32.929	62.465	23.685	0.00	0.00
ATOM	870	HG22	VAL	X	56	32.344	63.176	22.157	0.00	0.00
ATOM	871	HG23	VAL	X	56	34.014	63.279	22.521	0.00	0.00
ATOM	872	C	VAL	X	56	34.578	60.448	19.871	0.00	0.00
ATOM	873	O	VAL	X	56	34.094	59.355	19.691	0.00	0.00
ATOM	874	N	ASP	X	57	35.845	60.723	19.733	0.00	0.00
ATOM	875	H	ASP	X	57	36.160	61.571	20.182	0.00	0.00
ATOM	876	CA	ASP	X	57	36.796	59.701	19.192	0.00	0.00
ATOM	877	HA	ASP	X	57	36.379	59.119	18.370	0.00	0.00
ATOM	878	CB	ASP	X	57	38.048	60.493	18.615	0.00	0.00
ATOM	879	HB2	ASP	X	57	37.729	61.115	17.778	0.00	0.00
ATOM	880	HB3	ASP	X	57	38.414	61.145	19.408	0.00	0.00
ATOM	881	CG	ASP	X	57	39.243	59.704	18.133	0.00	0.00
ATOM	882	OD1	ASP	X	57	38.950	58.690	17.489	0.00	0.00
ATOM	883	OD2	ASP	X	57	40.362	60.030	18.472	0.00	0.00
ATOM	884	C	ASP	X	57	37.215	58.793	20.373	0.00	0.00
ATOM	885	O	ASP	X	57	37.902	59.243	21.307	0.00	0.00
ATOM	886	N	ALA	X	58	36.931	57.483	20.285	0.00	0.00
ATOM	887	H	ALA	X	58	36.415	57.178	19.472	0.00	0.00
ATOM	888	CA	ALA	X	58	37.374	56.580	21.302	0.00	0.00
ATOM	889	HA	ALA	X	58	37.833	57.148	22.111	0.00	0.00
ATOM	890	CB	ALA	X	58	36.171	56.023	21.950	0.00	0.00
ATOM	891	HB1	ALA	X	58	35.455	56.830	22.106	0.00	0.00
ATOM	892	HB2	ALA	X	58	36.455	55.619	22.922	0.00	0.00
ATOM	893	HB3	ALA	X	58	35.675	55.217	21.410	0.00	0.00
ATOM	894	C	ALA	X	58	38.427	55.545	20.812	0.00	0.00
ATOM	895	O	ALA	X	58	38.004	54.397	20.644	0.00	0.00
ATOM	896	N	THR	X	59	39.713	55.890	20.578	0.00	0.00
ATOM	897	H	THR	X	59	39.987	56.845	20.762	0.00	0.00
ATOM	898	CA	THR	X	59	40.716	55.116	19.745	0.00	0.00
ATOM	899	HA	THR	X	59	40.376	54.085	19.645	0.00	0.00
ATOM	900	CB	THR	X	59	40.771	55.721	18.373	0.00	0.00
ATOM	901	HB	THR	X	59	41.532	55.212	17.781	0.00	0.00
ATOM	902	CG2	THR	X	59	39.464	55.496	17.724	0.00	0.00
ATOM	903	HG21	THR	X	59	38.693	56.106	18.195	0.00	0.00
ATOM	904	HG22	THR	X	59	39.170	54.446	17.711	0.00	0.00
ATOM	905	HG23	THR	X	59	39.625	55.758	16.679	0.00	0.00
ATOM	906	OG1	THR	X	59	40.945	57.101	18.460	0.00	0.00
ATOM	907	HG1	THR	X	59	40.110	57.466	18.159	0.00	0.00
ATOM	908	C	THR	X	59	42.068	55.009	20.433	0.00	0.00
ATOM	909	O	THR	X	59	42.901	54.386	19.840	0.00	0.00
ATOM	910	N	THR	X	60	42.278	55.584	21.638	0.00	0.00
ATOM	911	H	THR	X	60	41.568	56.115	22.123	0.00	0.00
ATOM	912	CA	THR	X	60	43.549	55.461	22.393	0.00	0.00
ATOM	913	HA	THR	X	60	43.799	54.400	22.391	0.00	0.00
ATOM	914	CB	THR	X	60	44.690	56.233	21.781	0.00	0.00
ATOM	915	HB	THR	X	60	44.782	55.972	20.727	0.00	0.00
ATOM	916	CG2	THR	X	60	44.550	57.750	21.902	0.00	0.00

ATOM	917	HG21	THR	X	60	44.548	58.216	22.888	0.00	0.00
ATOM	918	HG22	THR	X	60	43.585	58.064	21.506	0.00	0.00
ATOM	919	HG23	THR	X	60	45.302	58.244	21.286	0.00	0.00
ATOM	920	OG1	THR	X	60	45.869	55.945	22.496	0.00	0.00
ATOM	921	HG1	THR	X	60	46.529	56.057	21.808	0.00	0.00
ATOM	922	C	THR	X	60	43.380	55.836	23.871	0.00	0.00
ATOM	923	O	THR	X	60	42.578	56.675	24.239	0.00	0.00
ATOM	924	N	PHE	X	61	44.137	55.256	24.745	0.00	0.00
ATOM	925	H	PHE	X	61	44.933	54.753	24.378	0.00	0.00
ATOM	926	CA	PHE	X	61	44.363	55.665	26.125	0.00	0.00
ATOM	927	HA	PHE	X	61	43.384	55.629	26.605	0.00	0.00
ATOM	928	CB	PHE	X	61	45.351	54.646	26.741	0.00	0.00
ATOM	929	HB2	PHE	X	61	46.308	54.701	26.223	0.00	0.00
ATOM	930	HB3	PHE	X	61	45.457	54.926	27.789	0.00	0.00
ATOM	931	CG	PHE	X	61	45.009	53.156	26.946	0.00	0.00
ATOM	932	CD1	PHE	X	61	44.037	52.691	27.829	0.00	0.00
ATOM	933	HD1	PHE	X	61	43.578	53.383	28.520	0.00	0.00
ATOM	934	CE1	PHE	X	61	43.636	51.355	27.892	0.00	0.00
ATOM	935	HE1	PHE	X	61	42.886	51.057	28.610	0.00	0.00
ATOM	936	CZ	PHE	X	61	44.205	50.541	26.961	0.00	0.00
ATOM	937	HZ	PHE	X	61	43.884	49.511	27.016	0.00	0.00
ATOM	938	CE2	PHE	X	61	45.145	50.936	25.956	0.00	0.00
ATOM	939	HE2	PHE	X	61	45.461	50.237	25.195	0.00	0.00
ATOM	940	CD2	PHE	X	61	45.474	52.308	25.968	0.00	0.00
ATOM	941	HD2	PHE	X	61	46.144	52.656	25.195	0.00	0.00
ATOM	942	C	PHE	X	61	44.884	57.038	26.224	0.00	0.00
ATOM	943	O	PHE	X	61	45.732	57.312	25.367	0.00	0.00
ATOM	944	N	GLN	X	62	44.512	57.981	27.091	0.00	0.00
ATOM	945	H	GLN	X	62	44.000	57.717	27.921	0.00	0.00
ATOM	946	CA	GLN	X	62	44.901	59.403	27.040	0.00	0.00
ATOM	947	HA	GLN	X	62	45.393	59.658	26.101	0.00	0.00
ATOM	948	CB	GLN	X	62	43.615	60.227	27.072	0.00	0.00
ATOM	949	HB2	GLN	X	62	43.132	59.888	27.989	0.00	0.00
ATOM	950	HB3	GLN	X	62	43.838	61.288	27.180	0.00	0.00
ATOM	951	CG	GLN	X	62	42.712	60.025	25.845	0.00	0.00
ATOM	952	HG2	GLN	X	62	42.488	58.975	25.656	0.00	0.00
ATOM	953	HG3	GLN	X	62	41.770	60.491	26.133	0.00	0.00
ATOM	954	CD	GLN	X	62	43.218	60.753	24.573	0.00	0.00
ATOM	955	OE1	GLN	X	62	44.380	61.161	24.361	0.00	0.00
ATOM	956	NE2	GLN	X	62	42.322	60.811	23.592	0.00	0.00
ATOM	957	HE21	GLN	X	62	42.537	61.254	22.710	0.00	0.00
ATOM	958	HE22	GLN	X	62	41.426	60.369	23.745	0.00	0.00
ATOM	959	C	GLN	X	62	45.803	59.762	28.200	0.00	0.00
ATOM	960	O	GLN	X	62	46.564	60.674	28.102	0.00	0.00
ATOM	961	N	SER	X	63	45.746	59.075	29.365	0.00	0.00
ATOM	962	H	SER	X	63	45.141	58.284	29.537	0.00	0.00
ATOM	963	CA	SER	X	63	46.715	59.376	30.452	0.00	0.00
ATOM	964	HA	SER	X	63	47.716	59.247	30.042	0.00	0.00
ATOM	965	CB	SER	X	63	46.391	60.812	31.026	0.00	0.00
ATOM	966	HB2	SER	X	63	47.229	61.099	31.661	0.00	0.00
ATOM	967	HB3	SER	X	63	46.323	61.512	30.194	0.00	0.00
ATOM	968	OG	SER	X	63	45.158	60.772	31.721	0.00	0.00
ATOM	969	HG	SER	X	63	44.937	61.655	32.029	0.00	0.00
ATOM	970	C	SER	X	63	46.698	58.283	31.584	0.00	0.00
ATOM	971	O	SER	X	63	45.811	57.381	31.537	0.00	0.00
ATOM	972	N	VAL	X	64	47.657	58.234	32.543	0.00	0.00
ATOM	973	H	VAL	X	64	48.338	58.976	32.463	0.00	0.00
ATOM	974	CA	VAL	X	64	47.711	57.251	33.622	0.00	0.00
ATOM	975	HA	VAL	X	64	46.969	56.465	33.483	0.00	0.00
ATOM	976	CB	VAL	X	64	49.021	56.442	33.506	0.00	0.00
ATOM	977	HB	VAL	X	64	49.895	57.018	33.203	0.00	0.00
ATOM	978	CG1	VAL	X	64	49.475	55.731	34.779	0.00	0.00
ATOM	979	HG11	VAL	X	64	48.699	54.999	35.004	0.00	0.00
ATOM	980	HG12	VAL	X	64	50.390	55.167	34.602	0.00	0.00
ATOM	981	HG13	VAL	X	64	49.518	56.495	35.555	0.00	0.00
ATOM	982	CG2	VAL	X	64	48.732	55.362	32.466	0.00	0.00
ATOM	983	HG21	VAL	X	64	49.698	54.957	32.165	0.00	0.00

ATOM	984	HG22	VAL	X	64	48.178	55.712	31.595	0.00	0.00
ATOM	985	HG23	VAL	X	64	48.055	54.598	32.848	0.00	0.00
ATOM	986	C	VAL	X	64	47.569	57.910	34.933	0.00	0.00
ATOM	987	O	VAL	X	64	48.002	59.017	35.154	0.00	0.00
ATOM	988	N	CYX	X	65	46.898	57.250	35.915	0.00	0.00
ATOM	989	H	CYX	X	65	46.556	56.306	35.806	0.00	0.00
ATOM	990	CA	CYX	X	65	46.572	57.867	37.211	0.00	0.00
ATOM	991	HA	CYX	X	65	46.287	58.895	36.988	0.00	0.00
ATOM	992	CB	CYX	X	65	45.396	57.133	37.939	0.00	0.00
ATOM	993	HB2	CYX	X	65	45.520	56.095	38.249	0.00	0.00
ATOM	994	HB3	CYX	X	65	45.356	57.531	38.953	0.00	0.00
ATOM	995	SG	CYX	X	65	43.791	56.999	37.164	0.00	0.00
ATOM	996	C	CYX	X	65	47.797	57.884	38.121	0.00	0.00
ATOM	997	O	CYX	X	65	48.440	56.824	38.421	0.00	0.00
ATOM	998	N	TYR	X	66	47.981	59.077	38.689	0.00	0.00
ATOM	999	H	TYR	X	66	47.355	59.819	38.410	0.00	0.00
ATOM	1000	CA	TYR	X	66	49.219	59.447	39.379	0.00	0.00
ATOM	1001	HA	TYR	X	66	49.903	59.431	38.532	0.00	0.00
ATOM	1002	CB	TYR	X	66	49.169	60.857	40.014	0.00	0.00
ATOM	1003	HB2	TYR	X	66	48.118	61.147	40.037	0.00	0.00
ATOM	1004	HB3	TYR	X	66	49.403	60.751	41.073	0.00	0.00
ATOM	1005	CG	TYR	X	66	50.060	61.912	39.343	0.00	0.00
ATOM	1006	CD1	TYR	X	66	49.449	63.110	38.935	0.00	0.00
ATOM	1007	HD1	TYR	X	66	48.437	63.217	39.295	0.00	0.00
ATOM	1008	CE1	TYR	X	66	50.152	64.017	38.170	0.00	0.00
ATOM	1009	HE1	TYR	X	66	49.700	64.946	37.854	0.00	0.00
ATOM	1010	CZ	TYR	X	66	51.524	63.811	37.879	0.00	0.00
ATOM	1011	OH	TYR	X	66	52.372	64.716	37.243	0.00	0.00
ATOM	1012	HH	TYR	X	66	51.905	65.530	37.041	0.00	0.00
ATOM	1013	CE2	TYR	X	66	52.164	62.602	38.251	0.00	0.00
ATOM	1014	HE2	TYR	X	66	53.168	62.376	37.924	0.00	0.00
ATOM	1015	CD2	TYR	X	66	51.428	61.623	38.962	0.00	0.00
ATOM	1016	HD2	TYR	X	66	51.800	60.612	39.043	0.00	0.00
ATOM	1017	C	TYR	X	66	49.670	58.427	40.411	0.00	0.00
ATOM	1018	O	TYR	X	66	48.928	58.107	41.317	0.00	0.00
ATOM	1019	N	GLN	X	67	50.885	57.846	40.336	0.00	0.00
ATOM	1020	H	GLN	X	67	51.517	58.121	39.597	0.00	0.00
ATOM	1021	CA	GLN	X	67	51.295	56.659	41.169	0.00	0.00
ATOM	1022	HA	GLN	X	67	50.995	56.935	42.180	0.00	0.00
ATOM	1023	CB	GLN	X	67	50.561	55.426	40.627	0.00	0.00
ATOM	1024	HB2	GLN	X	67	50.605	54.572	41.303	0.00	0.00
ATOM	1025	HB3	GLN	X	67	49.502	55.669	40.534	0.00	0.00
ATOM	1026	CG	GLN	X	67	51.116	54.972	39.261	0.00	0.00
ATOM	1027	HG2	GLN	X	67	50.957	55.676	38.445	0.00	0.00
ATOM	1028	HG3	GLN	X	67	52.168	54.693	39.330	0.00	0.00
ATOM	1029	CD	GLN	X	67	50.394	53.678	38.810	0.00	0.00
ATOM	1030	OE1	GLN	X	67	50.899	52.570	38.766	0.00	0.00
ATOM	1031	NE2	GLN	X	67	49.203	53.902	38.262	0.00	0.00
ATOM	1032	HE21	GLN	X	67	48.700	53.068	37.991	0.00	0.00
ATOM	1033	HE22	GLN	X	67	48.894	54.863	38.261	0.00	0.00
ATOM	1034	C	GLN	X	67	52.800	56.591	41.251	0.00	0.00
ATOM	1035	O	GLN	X	67	53.494	57.145	40.402	0.00	0.00
ATOM	1036	N	TYR	X	68	53.245	55.858	42.289	0.00	0.00
ATOM	1037	H	TYR	X	68	52.668	55.629	43.086	0.00	0.00
ATOM	1038	CA	TYR	X	68	54.701	55.415	42.282	0.00	0.00
ATOM	1039	HA	TYR	X	68	55.288	56.334	42.284	0.00	0.00
ATOM	1040	CB	TYR	X	68	55.044	54.594	43.510	0.00	0.00
ATOM	1041	HB2	TYR	X	68	54.705	55.113	44.407	0.00	0.00
ATOM	1042	HB3	TYR	X	68	54.397	53.718	43.477	0.00	0.00
ATOM	1043	CG	TYR	X	68	56.519	54.075	43.617	0.00	0.00
ATOM	1044	CD1	TYR	X	68	57.549	54.940	44.055	0.00	0.00
ATOM	1045	HD1	TYR	X	68	57.347	55.935	44.424	0.00	0.00
ATOM	1046	CE1	TYR	X	68	58.897	54.527	43.996	0.00	0.00
ATOM	1047	HE1	TYR	X	68	59.673	55.262	44.149	0.00	0.00
ATOM	1048	CZ	TYR	X	68	59.148	53.219	43.558	0.00	0.00
ATOM	1049	OH	TYR	X	68	60.413	52.763	43.319	0.00	0.00
ATOM	1050	HH	TYR	X	68	61.158	53.369	43.320	0.00	0.00

ATOM	1051	CE2	TYR	X	68	58.087	52.361	43.234	0.00	0.00
ATOM	1052	HE2	TYR	X	68	58.177	51.326	42.941	0.00	0.00
ATOM	1053	CD2	TYR	X	68	56.787	52.811	43.159	0.00	0.00
ATOM	1054	HD2	TYR	X	68	55.997	52.215	42.727	0.00	0.00
ATOM	1055	C	TYR	X	68	55.005	54.606	41.019	0.00	0.00
ATOM	1056	O	TYR	X	68	54.305	53.657	40.704	0.00	0.00
ATOM	1057	N	VAL	X	69	56.031	54.987	40.309	0.00	0.00
ATOM	1058	H	VAL	X	69	56.622	55.632	40.815	0.00	0.00
ATOM	1059	CA	VAL	X	69	56.687	54.235	39.236	0.00	0.00
ATOM	1060	HA	VAL	X	69	56.059	53.406	38.910	0.00	0.00
ATOM	1061	CB	VAL	X	69	56.891	55.026	37.870	0.00	0.00
ATOM	1062	HB	VAL	X	69	57.263	54.301	37.146	0.00	0.00
ATOM	1063	CG1	VAL	X	69	55.492	55.560	37.474	0.00	0.00
ATOM	1064	HG11	VAL	X	69	54.897	54.720	37.113	0.00	0.00
ATOM	1065	HG12	VAL	X	69	55.016	56.126	38.274	0.00	0.00
ATOM	1066	HG13	VAL	X	69	55.604	56.315	36.696	0.00	0.00
ATOM	1067	CG2	VAL	X	69	57.815	56.314	38.015	0.00	0.00
ATOM	1068	HG21	VAL	X	69	58.710	56.114	38.605	0.00	0.00
ATOM	1069	HG22	VAL	X	69	57.215	57.070	38.520	0.00	0.00
ATOM	1070	HG23	VAL	X	69	58.115	56.674	37.031	0.00	0.00
ATOM	1071	C	VAL	X	69	58.012	53.730	39.812	0.00	0.00
ATOM	1072	O	VAL	X	69	58.658	54.494	40.499	0.00	0.00
ATOM	1073	N	ASP	X	70	58.424	52.486	39.395	0.00	0.00
ATOM	1074	H	ASP	X	70	57.794	51.896	38.870	0.00	0.00
ATOM	1075	CA	ASP	X	70	59.623	51.759	39.865	0.00	0.00
ATOM	1076	HA	ASP	X	70	59.653	51.601	40.943	0.00	0.00
ATOM	1077	CB	ASP	X	70	59.630	50.377	39.206	0.00	0.00
ATOM	1078	HB2	ASP	X	70	58.737	49.804	39.455	0.00	0.00
ATOM	1079	HB3	ASP	X	70	59.583	50.630	38.147	0.00	0.00
ATOM	1080	CG	ASP	X	70	60.904	49.612	39.583	0.00	0.00
ATOM	1081	OD1	ASP	X	70	61.837	49.523	38.697	0.00	0.00
ATOM	1082	OD2	ASP	X	70	61.055	49.153	40.717	0.00	0.00
ATOM	1083	C	ASP	X	70	60.961	52.503	39.588	0.00	0.00
ATOM	1084	O	ASP	X	70	61.145	53.128	38.567	0.00	0.00
ATOM	1085	N	THR	X	71	62.005	52.255	40.472	0.00	0.00
ATOM	1086	H	THR	X	71	61.848	51.762	41.340	0.00	0.00
ATOM	1087	CA	THR	X	71	63.429	52.615	40.105	0.00	0.00
ATOM	1088	HA	THR	X	71	63.448	52.800	39.031	0.00	0.00
ATOM	1089	CB	THR	X	71	63.718	53.935	40.827	0.00	0.00
ATOM	1090	HB	THR	X	71	64.796	54.067	40.735	0.00	0.00
ATOM	1091	CG2	THR	X	71	62.967	55.091	40.102	0.00	0.00
ATOM	1092	HG21	THR	X	71	61.921	55.064	40.405	0.00	0.00
ATOM	1093	HG22	THR	X	71	63.037	55.044	39.015	0.00	0.00
ATOM	1094	HG23	THR	X	71	63.349	56.026	40.513	0.00	0.00
ATOM	1095	OG1	THR	X	71	63.347	54.074	42.218	0.00	0.00
ATOM	1096	HG1	THR	X	71	64.067	53.707	42.736	0.00	0.00
ATOM	1097	C	THR	X	71	64.451	51.528	40.481	0.00	0.00
ATOM	1098	O	THR	X	71	65.572	51.773	40.770	0.00	0.00
ATOM	1099	N	LEU	X	72	64.016	50.261	40.623	0.00	0.00
ATOM	1100	H	LEU	X	72	63.082	50.013	40.328	0.00	0.00
ATOM	1101	CA	LEU	X	72	64.793	49.305	41.517	0.00	0.00
ATOM	1102	HA	LEU	X	72	65.540	49.853	42.091	0.00	0.00
ATOM	1103	CB	LEU	X	72	63.914	48.692	42.596	0.00	0.00
ATOM	1104	HB2	LEU	X	72	63.438	49.545	43.080	0.00	0.00
ATOM	1105	HB3	LEU	X	72	63.150	48.079	42.119	0.00	0.00
ATOM	1106	CG	LEU	X	72	64.521	47.845	43.744	0.00	0.00
ATOM	1107	HG	LEU	X	72	64.757	46.897	43.259	0.00	0.00
ATOM	1108	CD1	LEU	X	72	65.784	48.277	44.475	0.00	0.00
ATOM	1109	HD11	LEU	X	72	66.522	48.625	43.753	0.00	0.00
ATOM	1110	HD12	LEU	X	72	66.194	47.436	45.035	0.00	0.00
ATOM	1111	HD13	LEU	X	72	65.557	48.989	45.268	0.00	0.00
ATOM	1112	CD2	LEU	X	72	63.414	47.576	44.770	0.00	0.00
ATOM	1113	HD21	LEU	X	72	63.431	48.384	45.501	0.00	0.00
ATOM	1114	HD22	LEU	X	72	62.442	47.406	44.306	0.00	0.00
ATOM	1115	HD23	LEU	X	72	63.528	46.623	45.286	0.00	0.00
ATOM	1116	C	LEU	X	72	65.521	48.303	40.661	0.00	0.00
ATOM	1117	O	LEU	X	72	66.733	48.079	40.880	0.00	0.00

ATOM	1118	N	TYR	X	73	64.894	47.820	39.596	0.00	0.00
ATOM	1119	H	TYR	X	73	63.887	47.891	39.606	0.00	0.00
ATOM	1120	CA	TYR	X	73	65.506	47.027	38.588	0.00	0.00
ATOM	1121	HA	TYR	X	73	66.594	47.084	38.626	0.00	0.00
ATOM	1122	CB	TYR	X	73	65.125	45.555	38.760	0.00	0.00
ATOM	1123	HB2	TYR	X	73	64.048	45.465	38.625	0.00	0.00
ATOM	1124	HB3	TYR	X	73	65.533	44.929	37.967	0.00	0.00
ATOM	1125	CG	TYR	X	73	65.606	44.939	40.119	0.00	0.00
ATOM	1126	CD1	TYR	X	73	66.962	44.913	40.437	0.00	0.00
ATOM	1127	HD1	TYR	X	73	67.642	45.233	39.661	0.00	0.00
ATOM	1128	CE1	TYR	X	73	67.376	44.404	41.647	0.00	0.00
ATOM	1129	HE1	TYR	X	73	68.420	44.384	41.924	0.00	0.00
ATOM	1130	CZ	TYR	X	73	66.464	43.981	42.645	0.00	0.00
ATOM	1131	OH	TYR	X	73	66.823	43.415	43.797	0.00	0.00
ATOM	1132	HH	TYR	X	73	66.148	43.016	44.350	0.00	0.00
ATOM	1133	CE2	TYR	X	73	65.119	44.060	42.295	0.00	0.00
ATOM	1134	HE2	TYR	X	73	64.376	43.796	43.034	0.00	0.00
ATOM	1135	CD2	TYR	X	73	64.644	44.607	41.135	0.00	0.00
ATOM	1136	HD2	TYR	X	73	63.575	44.661	40.995	0.00	0.00
ATOM	1137	C	TYR	X	73	65.250	47.584	37.148	0.00	0.00
ATOM	1138	O	TYR	X	73	64.566	46.882	36.332	0.00	0.00
ATOM	1139	N	PRO	X	74	65.664	48.814	36.863	0.00	0.00
ATOM	1140	CD	PRO	X	74	66.590	49.620	37.671	0.00	0.00
ATOM	1141	HD2	PRO	X	74	67.458	49.071	38.036	0.00	0.00
ATOM	1142	HD3	PRO	X	74	66.020	50.125	38.451	0.00	0.00
ATOM	1143	CG	PRO	X	74	67.118	50.689	36.653	0.00	0.00
ATOM	1144	HG2	PRO	X	74	67.844	50.256	35.965	0.00	0.00
ATOM	1145	HG3	PRO	X	74	67.486	51.547	37.216	0.00	0.00
ATOM	1146	CB	PRO	X	74	65.897	50.956	35.887	0.00	0.00
ATOM	1147	HB2	PRO	X	74	66.026	51.453	34.925	0.00	0.00
ATOM	1148	HB3	PRO	X	74	65.190	51.494	36.518	0.00	0.00
ATOM	1149	CA	PRO	X	74	65.268	49.596	35.670	0.00	0.00
ATOM	1150	HA	PRO	X	74	64.206	49.836	35.633	0.00	0.00
ATOM	1151	C	PRO	X	74	65.796	48.850	34.490	0.00	0.00
ATOM	1152	O	PRO	X	74	66.884	48.242	34.470	0.00	0.00
ATOM	1153	N	GLY	X	75	65.021	49.021	33.407	0.00	0.00
ATOM	1154	H	GLY	X	75	64.186	49.572	33.544	0.00	0.00
ATOM	1155	CA	GLY	X	75	65.352	48.549	32.065	0.00	0.00
ATOM	1156	HA2	GLY	X	75	64.488	48.768	31.438	0.00	0.00
ATOM	1157	HA3	GLY	X	75	66.274	48.935	31.631	0.00	0.00
ATOM	1158	C	GLY	X	75	65.509	47.031	32.047	0.00	0.00
ATOM	1159	O	GLY	X	75	65.912	46.502	30.993	0.00	0.00
ATOM	1160	N	PHE	X	76	65.050	46.237	33.047	0.00	0.00
ATOM	1161	H	PHE	X	76	64.977	46.744	33.917	0.00	0.00
ATOM	1162	CA	PHE	X	76	64.787	44.816	33.028	0.00	0.00
ATOM	1163	HA	PHE	X	76	65.703	44.393	32.615	0.00	0.00
ATOM	1164	CB	PHE	X	76	64.575	44.336	34.479	0.00	0.00
ATOM	1165	HB2	PHE	X	76	65.504	44.713	34.907	0.00	0.00
ATOM	1166	HB3	PHE	X	76	63.692	44.855	34.853	0.00	0.00
ATOM	1167	CG	PHE	X	76	64.458	42.856	34.598	0.00	0.00
ATOM	1168	CD1	PHE	X	76	65.224	41.939	33.813	0.00	0.00
ATOM	1169	HD1	PHE	X	76	66.017	42.281	33.166	0.00	0.00
ATOM	1170	CE1	PHE	X	76	64.907	40.603	33.760	0.00	0.00
ATOM	1171	HE1	PHE	X	76	65.442	40.011	33.032	0.00	0.00
ATOM	1172	CZ	PHE	X	76	64.030	40.039	34.612	0.00	0.00
ATOM	1173	HZ	PHE	X	76	63.920	38.970	34.714	0.00	0.00
ATOM	1174	CE2	PHE	X	76	63.283	40.850	35.458	0.00	0.00
ATOM	1175	HE2	PHE	X	76	62.520	40.465	36.117	0.00	0.00
ATOM	1176	CD2	PHE	X	76	63.500	42.261	35.470	0.00	0.00
ATOM	1177	HD2	PHE	X	76	62.856	42.779	36.165	0.00	0.00
ATOM	1178	C	PHE	X	76	63.526	44.476	32.158	0.00	0.00
ATOM	1179	O	PHE	X	76	62.415	44.902	32.404	0.00	0.00
ATOM	1180	N	GLU	X	77	63.644	43.418	31.371	0.00	0.00
ATOM	1181	H	GLU	X	77	64.593	43.103	31.230	0.00	0.00
ATOM	1182	CA	GLU	X	77	62.537	42.746	30.579	0.00	0.00
ATOM	1183	HA	GLU	X	77	62.304	43.554	29.887	0.00	0.00
ATOM	1184	CB	GLU	X	77	63.124	41.522	29.790	0.00	0.00

ATOM	1185	HB2	GLU	X	77	63.464	40.812	30.544	0.00	0.00
ATOM	1186	HB3	GLU	X	77	62.365	40.909	29.304	0.00	0.00
ATOM	1187	CG	GLU	X	77	64.229	41.816	28.792	0.00	0.00
ATOM	1188	HG2	GLU	X	77	64.226	41.049	28.017	0.00	0.00
ATOM	1189	HG3	GLU	X	77	64.027	42.778	28.321	0.00	0.00
ATOM	1190	CD	GLU	X	77	65.537	41.837	29.522	0.00	0.00
ATOM	1191	OE1	GLU	X	77	65.968	42.989	29.742	0.00	0.00
ATOM	1192	OE2	GLU	X	77	66.160	40.765	29.684	0.00	0.00
ATOM	1193	C	GLU	X	77	61.417	42.277	31.516	0.00	0.00
ATOM	1194	O	GLU	X	77	60.314	42.679	31.165	0.00	0.00
ATOM	1195	N	GLY	X	78	61.683	41.587	32.644	0.00	0.00
ATOM	1196	H	GLY	X	78	62.632	41.602	32.989	0.00	0.00
ATOM	1197	CA	GLY	X	78	60.627	41.015	33.499	0.00	0.00
ATOM	1198	HA2	GLY	X	78	59.874	40.610	32.823	0.00	0.00
ATOM	1199	HA3	GLY	X	78	60.969	40.253	34.199	0.00	0.00
ATOM	1200	C	GLY	X	78	59.824	41.951	34.331	0.00	0.00
ATOM	1201	O	GLY	X	78	59.024	41.493	35.088	0.00	0.00
ATOM	1202	N	THR	X	79	60.028	43.264	34.168	0.00	0.00
ATOM	1203	H	THR	X	79	60.862	43.421	33.621	0.00	0.00
ATOM	1204	CA	THR	X	79	59.237	44.375	34.752	0.00	0.00
ATOM	1205	HA	THR	X	79	58.297	43.934	35.086	0.00	0.00
ATOM	1206	CB	THR	X	79	59.965	45.085	35.899	0.00	0.00
ATOM	1207	HB	THR	X	79	59.569	46.065	36.164	0.00	0.00
ATOM	1208	CG2	THR	X	79	59.980	44.262	37.163	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.298	44.855	38.021	0.00	0.00
ATOM	1210	HG22	THR	X	79	60.577	43.367	36.988	0.00	0.00
ATOM	1211	HG23	THR	X	79	58.941	44.020	37.388	0.00	0.00
ATOM	1212	OG1	THR	X	79	61.284	45.314	35.443	0.00	0.00
ATOM	1213	HG1	THR	X	79	61.793	45.721	36.148	0.00	0.00
ATOM	1214	C	THR	X	79	58.701	45.441	33.732	0.00	0.00
ATOM	1215	O	THR	X	79	57.858	46.263	34.066	0.00	0.00
ATOM	1216	N	GLU	X	80	59.270	45.331	32.469	0.00	0.00
ATOM	1217	H	GLU	X	80	59.914	44.568	32.315	0.00	0.00
ATOM	1218	CA	GLU	X	80	58.794	46.138	31.378	0.00	0.00
ATOM	1219	HA	GLU	X	80	58.969	47.165	31.699	0.00	0.00
ATOM	1220	CB	GLU	X	80	59.545	45.739	30.048	0.00	0.00
ATOM	1221	HB2	GLU	X	80	60.540	45.393	30.327	0.00	0.00
ATOM	1222	HB3	GLU	X	80	59.040	44.909	29.555	0.00	0.00
ATOM	1223	CG	GLU	X	80	59.666	46.982	29.005	0.00	0.00
ATOM	1224	HG2	GLU	X	80	60.158	46.734	28.065	0.00	0.00
ATOM	1225	HG3	GLU	X	80	58.617	47.216	28.823	0.00	0.00
ATOM	1226	CD	GLU	X	80	60.400	48.182	29.571	0.00	0.00
ATOM	1227	OE1	GLU	X	80	59.844	49.286	29.460	0.00	0.00
ATOM	1228	OE2	GLU	X	80	61.478	48.089	30.227	0.00	0.00
ATOM	1229	C	GLU	X	80	57.268	46.130	31.071	0.00	0.00
ATOM	1230	O	GLU	X	80	56.700	47.154	30.622	0.00	0.00
ATOM	1231	N	MET	X	81	56.644	44.961	31.219	0.00	0.00
ATOM	1232	H	MET	X	81	57.081	44.149	31.630	0.00	0.00
ATOM	1233	CA	MET	X	81	55.170	44.953	31.091	0.00	0.00
ATOM	1234	HA	MET	X	81	54.814	45.393	30.159	0.00	0.00
ATOM	1235	CB	MET	X	81	54.680	43.518	31.226	0.00	0.00
ATOM	1236	HB2	MET	X	81	53.613	43.584	31.442	0.00	0.00
ATOM	1237	HB3	MET	X	81	54.829	42.894	30.345	0.00	0.00
ATOM	1238	CG	MET	X	81	55.107	42.799	32.513	0.00	0.00
ATOM	1239	HG2	MET	X	81	54.782	43.520	33.264	0.00	0.00
ATOM	1240	HG3	MET	X	81	54.513	41.913	32.736	0.00	0.00
ATOM	1241	SD	MET	X	81	56.821	42.351	32.779	0.00	0.00
ATOM	1242	CE	MET	X	81	57.131	41.436	31.215	0.00	0.00
ATOM	1243	HE1	MET	X	81	56.484	40.626	30.880	0.00	0.00
ATOM	1244	HE2	MET	X	81	57.017	42.184	30.431	0.00	0.00
ATOM	1245	HE3	MET	X	81	58.145	41.035	31.211	0.00	0.00
ATOM	1246	C	MET	X	81	54.402	45.831	32.171	0.00	0.00
ATOM	1247	O	MET	X	81	53.316	46.272	31.822	0.00	0.00
ATOM	1248	N	TRP	X	82	55.061	46.171	33.293	0.00	0.00
ATOM	1249	H	TRP	X	82	55.993	45.800	33.411	0.00	0.00
ATOM	1250	CA	TRP	X	82	54.418	47.071	34.359	0.00	0.00
ATOM	1251	HA	TRP	X	82	53.347	46.880	34.293	0.00	0.00

ATOM	1252	CB	TRP	X	82	54.787	46.584	35.780	0.00	0.00
ATOM	1253	HB2	TRP	X	82	55.809	46.902	35.988	0.00	0.00
ATOM	1254	HB3	TRP	X	82	54.161	47.075	36.525	0.00	0.00
ATOM	1255	CG	TRP	X	82	54.668	45.099	35.926	0.00	0.00
ATOM	1256	CD1	TRP	X	82	55.708	44.257	36.204	0.00	0.00
ATOM	1257	HD1	TRP	X	82	56.722	44.535	36.455	0.00	0.00
ATOM	1258	NE1	TRP	X	82	55.264	42.932	36.201	0.00	0.00
ATOM	1259	HE1	TRP	X	82	55.833	42.136	36.450	0.00	0.00
ATOM	1260	CE2	TRP	X	82	54.033	42.900	35.650	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	53.137	41.855	35.384	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	53.490	40.839	35.482	0.00	0.00
ATOM	1263	CH2	TRP	X	82	51.824	42.113	34.959	0.00	0.00
ATOM	1264	HH2	TRP	X	82	51.170	41.292	34.704	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	51.350	43.491	34.830	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	50.357	43.698	34.460	0.00	0.00
ATOM	1267	CE3	TRP	X	82	52.256	44.567	35.039	0.00	0.00
ATOM	1268	HE3	TRP	X	82	51.920	45.579	34.868	0.00	0.00
ATOM	1269	CD2	TRP	X	82	53.537	44.254	35.572	0.00	0.00
ATOM	1270	C	TRP	X	82	54.732	48.520	34.091	0.00	0.00
ATOM	1271	O	TRP	X	82	54.304	49.337	34.862	0.00	0.00
ATOM	1272	N	ASN	X	83	55.620	48.820	33.151	0.00	0.00
ATOM	1273	H	ASN	X	83	55.953	48.074	32.558	0.00	0.00
ATOM	1274	CA	ASN	X	83	56.165	50.186	32.987	0.00	0.00
ATOM	1275	HA	ASN	X	83	56.233	50.553	34.012	0.00	0.00
ATOM	1276	CB	ASN	X	83	57.621	50.159	32.536	0.00	0.00
ATOM	1277	HB2	ASN	X	83	58.292	49.724	33.277	0.00	0.00
ATOM	1278	HB3	ASN	X	83	57.791	49.500	31.685	0.00	0.00
ATOM	1279	CG	ASN	X	83	58.302	51.467	32.176	0.00	0.00
ATOM	1280	OD1	ASN	X	83	57.947	52.536	32.673	0.00	0.00
ATOM	1281	ND2	ASN	X	83	59.283	51.466	31.291	0.00	0.00
ATOM	1282	HD21	ASN	X	83	59.773	52.321	31.068	0.00	0.00
ATOM	1283	HD22	ASN	X	83	59.651	50.622	30.875	0.00	0.00
ATOM	1284	C	ASN	X	83	55.240	50.991	32.059	0.00	0.00
ATOM	1285	O	ASN	X	83	55.016	50.574	30.928	0.00	0.00
ATOM	1286	N	PRO	X	84	54.611	52.054	32.516	0.00	0.00
ATOM	1287	CD	PRO	X	84	54.786	52.510	33.868	0.00	0.00
ATOM	1288	HD2	PRO	X	84	55.824	52.613	34.183	0.00	0.00
ATOM	1289	HD3	PRO	X	84	54.190	51.962	34.598	0.00	0.00
ATOM	1290	CG	PRO	X	84	54.097	53.847	33.858	0.00	0.00
ATOM	1291	HG2	PRO	X	84	54.732	54.642	33.468	0.00	0.00
ATOM	1292	HG3	PRO	X	84	53.757	54.118	34.857	0.00	0.00
ATOM	1293	CB	PRO	X	84	52.936	53.599	32.928	0.00	0.00
ATOM	1294	HB2	PRO	X	84	52.565	54.539	32.517	0.00	0.00
ATOM	1295	HB3	PRO	X	84	52.150	53.036	33.430	0.00	0.00
ATOM	1296	CA	PRO	X	84	53.611	52.817	31.862	0.00	0.00
ATOM	1297	HA	PRO	X	84	52.807	52.210	31.447	0.00	0.00
ATOM	1298	C	PRO	X	84	54.263	53.673	30.740	0.00	0.00
ATOM	1299	O	PRO	X	84	55.152	54.528	31.036	0.00	0.00
ATOM	1300	N	ASN	X	85	53.919	53.381	29.471	0.00	0.00
ATOM	1301	H	ASN	X	85	53.363	52.570	29.241	0.00	0.00
ATOM	1302	CA	ASN	X	85	54.309	54.341	28.427	0.00	0.00
ATOM	1303	HA	ASN	X	85	55.311	54.708	28.647	0.00	0.00
ATOM	1304	CB	ASN	X	85	54.619	53.580	27.059	0.00	0.00
ATOM	1305	HB2	ASN	X	85	55.283	54.086	26.358	0.00	0.00
ATOM	1306	HB3	ASN	X	85	55.207	52.689	27.280	0.00	0.00
ATOM	1307	CG	ASN	X	85	53.331	53.087	26.344	0.00	0.00
ATOM	1308	OD1	ASN	X	85	52.208	53.343	26.798	0.00	0.00
ATOM	1309	ND2	ASN	X	85	53.407	52.529	25.196	0.00	0.00
ATOM	1310	HD21	ASN	X	85	52.599	52.155	24.719	0.00	0.00
ATOM	1311	HD22	ASN	X	85	54.254	52.443	24.653	0.00	0.00
ATOM	1312	C	ASN	X	85	53.405	55.580	28.286	0.00	0.00
ATOM	1313	O	ASN	X	85	53.795	56.583	27.689	0.00	0.00
ATOM	1314	N	ARG	X	86	52.224	55.610	28.848	0.00	0.00
ATOM	1315	H	ARG	X	86	51.923	54.687	29.129	0.00	0.00
ATOM	1316	CA	ARG	X	86	51.276	56.798	28.861	0.00	0.00
ATOM	1317	HA	ARG	X	86	51.291	57.266	27.876	0.00	0.00
ATOM	1318	CB	ARG	X	86	49.860	56.384	29.063	0.00	0.00

ATOM	1319	HB2	ARG	X	86	49.723	55.375	29.452	0.00	0.00
ATOM	1320	HB3	ARG	X	86	49.321	57.080	29.707	0.00	0.00
ATOM	1321	CG	ARG	X	86	49.102	56.317	27.725	0.00	0.00
ATOM	1322	HG2	ARG	X	86	48.072	56.084	27.996	0.00	0.00
ATOM	1323	HG3	ARG	X	86	49.135	57.338	27.345	0.00	0.00
ATOM	1324	CD	ARG	X	86	49.683	55.223	26.725	0.00	0.00
ATOM	1325	HD2	ARG	X	86	50.056	54.378	27.304	0.00	0.00
ATOM	1326	HD3	ARG	X	86	48.923	54.857	26.036	0.00	0.00
ATOM	1327	NE	ARG	X	86	50.713	55.642	25.881	0.00	0.00
ATOM	1328	HE	ARG	X	86	51.148	56.526	26.104	0.00	0.00
ATOM	1329	CZ	ARG	X	86	51.030	55.063	24.731	0.00	0.00
ATOM	1330	NH1	ARG	X	86	50.530	53.868	24.435	0.00	0.00
ATOM	1331	HH11	ARG	X	86	49.876	53.389	25.037	0.00	0.00
ATOM	1332	HH12	ARG	X	86	50.875	53.391	23.614	0.00	0.00
ATOM	1333	NH2	ARG	X	86	51.774	55.724	23.879	0.00	0.00
ATOM	1334	HH21	ARG	X	86	51.932	56.713	24.011	0.00	0.00
ATOM	1335	HH22	ARG	X	86	51.835	55.360	22.938	0.00	0.00
ATOM	1336	C	ARG	X	86	51.784	57.860	29.808	0.00	0.00
ATOM	1337	O	ARG	X	86	52.589	57.535	30.681	0.00	0.00
ATOM	1338	N	GLU	X	87	51.364	59.085	29.619	0.00	0.00
ATOM	1339	H	GLU	X	87	50.617	59.288	28.971	0.00	0.00
ATOM	1340	CA	GLU	X	87	51.782	60.178	30.523	0.00	0.00
ATOM	1341	HA	GLU	X	87	52.855	60.125	30.710	0.00	0.00
ATOM	1342	CB	GLU	X	87	51.645	61.633	30.014	0.00	0.00
ATOM	1343	HB2	GLU	X	87	50.603	61.839	29.771	0.00	0.00
ATOM	1344	HB3	GLU	X	87	51.916	62.349	30.790	0.00	0.00
ATOM	1345	CG	GLU	X	87	52.409	61.857	28.683	0.00	0.00
ATOM	1346	HG2	GLU	X	87	53.476	61.691	28.830	0.00	0.00
ATOM	1347	HG3	GLU	X	87	52.148	61.036	28.014	0.00	0.00
ATOM	1348	CD	GLU	X	87	52.226	63.270	28.037	0.00	0.00
ATOM	1349	OE1	GLU	X	87	51.720	63.504	26.871	0.00	0.00
ATOM	1350	OE2	GLU	X	87	52.536	64.204	28.837	0.00	0.00
ATOM	1351	C	GLU	X	87	50.924	60.000	31.776	0.00	0.00
ATOM	1352	O	GLU	X	87	49.704	59.750	31.679	0.00	0.00
ATOM	1353	N	LEU	X	88	51.534	60.105	32.948	0.00	0.00
ATOM	1354	H	LEU	X	88	52.482	60.449	32.897	0.00	0.00
ATOM	1355	CA	LEU	X	88	50.864	60.131	34.237	0.00	0.00
ATOM	1356	HA	LEU	X	88	50.165	59.298	34.307	0.00	0.00
ATOM	1357	CB	LEU	X	88	51.883	59.872	35.466	0.00	0.00
ATOM	1358	HB2	LEU	X	88	52.839	60.343	35.233	0.00	0.00
ATOM	1359	HB3	LEU	X	88	51.535	60.509	36.279	0.00	0.00
ATOM	1360	CG	LEU	X	88	52.010	58.460	35.954	0.00	0.00
ATOM	1361	HG	LEU	X	88	50.994	58.262	36.296	0.00	0.00
ATOM	1362	CD1	LEU	X	88	52.532	57.499	34.888	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.581	57.767	34.761	0.00	0.00
ATOM	1364	HD12	LEU	X	88	51.989	57.685	33.962	0.00	0.00
ATOM	1365	HD13	LEU	X	88	52.336	56.501	35.280	0.00	0.00
ATOM	1366	CD2	LEU	X	88	52.871	58.220	37.208	0.00	0.00
ATOM	1367	HD21	LEU	X	88	53.839	58.711	37.102	0.00	0.00
ATOM	1368	HD22	LEU	X	88	52.431	58.730	38.066	0.00	0.00
ATOM	1369	HD23	LEU	X	88	52.878	57.142	37.370	0.00	0.00
ATOM	1370	C	LEU	X	88	50.210	61.532	34.421	0.00	0.00
ATOM	1371	O	LEU	X	88	50.786	62.505	33.907	0.00	0.00
ATOM	1372	N	SER	X	89	49.169	61.566	35.177	0.00	0.00
ATOM	1373	H	SER	X	89	48.760	60.736	35.582	0.00	0.00
ATOM	1374	CA	SER	X	89	48.286	62.773	35.315	0.00	0.00
ATOM	1375	HA	SER	X	89	48.871	63.547	35.812	0.00	0.00
ATOM	1376	CB	SER	X	89	47.749	63.267	33.931	0.00	0.00
ATOM	1377	HB2	SER	X	89	48.568	63.292	33.211	0.00	0.00
ATOM	1378	HB3	SER	X	89	47.039	62.523	33.572	0.00	0.00
ATOM	1379	OG	SER	X	89	47.187	64.479	33.954	0.00	0.00
ATOM	1380	HG	SER	X	89	46.830	64.719	33.096	0.00	0.00
ATOM	1381	C	SER	X	89	47.135	62.532	36.241	0.00	0.00
ATOM	1382	O	SER	X	89	46.881	61.398	36.633	0.00	0.00
ATOM	1383	N	GLU	X	90	46.441	63.639	36.620	0.00	0.00
ATOM	1384	H	GLU	X	90	46.755	64.548	36.311	0.00	0.00
ATOM	1385	CA	GLU	X	90	45.256	63.554	37.489	0.00	0.00

ATOM	1386	HA	GLU	X	90	45.278	62.769	38.245	0.00	0.00
ATOM	1387	CB	GLU	X	90	45.215	64.790	38.440	0.00	0.00
ATOM	1388	HB2	GLU	X	90	45.091	65.719	37.884	0.00	0.00
ATOM	1389	HB3	GLU	X	90	44.357	64.707	39.107	0.00	0.00
ATOM	1390	CG	GLU	X	90	46.389	64.939	39.373	0.00	0.00
ATOM	1391	HG2	GLU	X	90	46.653	64.153	40.080	0.00	0.00
ATOM	1392	HG3	GLU	X	90	47.262	65.118	38.745	0.00	0.00
ATOM	1393	CD	GLU	X	90	46.210	66.231	40.249	0.00	0.00
ATOM	1394	OE1	GLU	X	90	45.225	66.315	41.007	0.00	0.00
ATOM	1395	OE2	GLU	X	90	47.033	67.190	40.095	0.00	0.00
ATOM	1396	C	GLU	X	90	43.886	63.341	36.841	0.00	0.00
ATOM	1397	O	GLU	X	90	42.903	62.723	37.304	0.00	0.00
ATOM	1398	N	ASP	X	91	43.862	63.773	35.584	0.00	0.00
ATOM	1399	H	ASP	X	91	44.712	64.186	35.228	0.00	0.00
ATOM	1400	CA	ASP	X	91	42.689	63.776	34.661	0.00	0.00
ATOM	1401	HA	ASP	X	91	41.965	64.405	35.180	0.00	0.00
ATOM	1402	CB	ASP	X	91	43.208	64.761	33.496	0.00	0.00
ATOM	1403	HB2	ASP	X	91	42.259	65.199	33.187	0.00	0.00
ATOM	1404	HB3	ASP	X	91	43.851	65.550	33.886	0.00	0.00
ATOM	1405	CG	ASP	X	91	43.845	64.075	32.306	0.00	0.00
ATOM	1406	OD1	ASP	X	91	44.479	63.094	32.490	0.00	0.00
ATOM	1407	OD2	ASP	X	91	43.644	64.577	31.166	0.00	0.00
ATOM	1408	C	ASP	X	91	42.130	62.399	34.106	0.00	0.00
ATOM	1409	O	ASP	X	91	41.325	62.302	33.134	0.00	0.00
ATOM	1410	N	CYX	X	92	42.516	61.308	34.712	0.00	0.00
ATOM	1411	H	CYX	X	92	42.970	61.513	35.591	0.00	0.00
ATOM	1412	CA	CYX	X	92	42.819	59.937	34.097	0.00	0.00
ATOM	1413	HA	CYX	X	92	43.306	60.040	33.128	0.00	0.00
ATOM	1414	CB	CYX	X	92	43.836	59.371	35.086	0.00	0.00
ATOM	1415	HB2	CYX	X	92	44.196	58.432	34.665	0.00	0.00
ATOM	1416	HB3	CYX	X	92	44.648	60.095	35.157	0.00	0.00
ATOM	1417	SG	CYX	X	92	43.184	58.967	36.739	0.00	0.00
ATOM	1418	C	CYX	X	92	41.704	58.949	33.933	0.00	0.00
ATOM	1419	O	CYX	X	92	41.992	57.841	33.425	0.00	0.00
ATOM	1420	N	LEU	X	93	40.465	59.221	34.446	0.00	0.00
ATOM	1421	H	LEU	X	93	40.231	60.101	34.883	0.00	0.00
ATOM	1422	CA	LEU	X	93	39.442	58.170	34.446	0.00	0.00
ATOM	1423	HA	LEU	X	93	39.917	57.241	34.761	0.00	0.00
ATOM	1424	CB	LEU	X	93	38.312	58.626	35.456	0.00	0.00
ATOM	1425	HB2	LEU	X	93	37.832	59.528	35.077	0.00	0.00
ATOM	1426	HB3	LEU	X	93	37.484	57.918	35.419	0.00	0.00
ATOM	1427	CG	LEU	X	93	38.762	58.730	36.933	0.00	0.00
ATOM	1428	HG	LEU	X	93	39.546	59.468	37.103	0.00	0.00
ATOM	1429	CD1	LEU	X	93	37.581	59.147	37.813	0.00	0.00
ATOM	1430	HD11	LEU	X	93	36.719	58.508	37.619	0.00	0.00
ATOM	1431	HD12	LEU	X	93	37.284	60.112	37.402	0.00	0.00
ATOM	1432	HD13	LEU	X	93	37.908	59.261	38.847	0.00	0.00
ATOM	1433	CD2	LEU	X	93	39.344	57.402	37.483	0.00	0.00
ATOM	1434	HD21	LEU	X	93	38.698	56.527	37.406	0.00	0.00
ATOM	1435	HD22	LEU	X	93	40.237	57.159	36.907	0.00	0.00
ATOM	1436	HD23	LEU	X	93	39.661	57.621	38.503	0.00	0.00
ATOM	1437	C	LEU	X	93	38.911	57.851	32.977	0.00	0.00
ATOM	1438	O	LEU	X	93	38.606	58.847	32.326	0.00	0.00
ATOM	1439	N	TYR	X	94	38.873	56.562	32.582	0.00	0.00
ATOM	1440	H	TYR	X	94	39.182	55.819	33.193	0.00	0.00
ATOM	1441	CA	TYR	X	94	38.311	56.128	31.333	0.00	0.00
ATOM	1442	HA	TYR	X	94	37.482	56.797	31.102	0.00	0.00
ATOM	1443	CB	TYR	X	94	39.429	56.330	30.300	0.00	0.00
ATOM	1444	HB2	TYR	X	94	40.312	55.758	30.585	0.00	0.00
ATOM	1445	HB3	TYR	X	94	39.092	55.902	29.357	0.00	0.00
ATOM	1446	CG	TYR	X	94	39.842	57.718	30.047	0.00	0.00
ATOM	1447	CD1	TYR	X	94	38.993	58.520	29.295	0.00	0.00
ATOM	1448	HD1	TYR	X	94	38.006	58.188	29.009	0.00	0.00
ATOM	1449	CE1	TYR	X	94	39.266	59.850	29.022	0.00	0.00
ATOM	1450	HE1	TYR	X	94	38.533	60.487	28.550	0.00	0.00
ATOM	1451	CZ	TYR	X	94	40.504	60.366	29.460	0.00	0.00
ATOM	1452	OH	TYR	X	94	40.744	61.681	29.171	0.00	0.00

ATOM	1453	HH	TYR	X	94	41.676	61.845	29.330	0.00	0.00
ATOM	1454	CE2	TYR	X	94	41.484	59.530	30.083	0.00	0.00
ATOM	1455	HE2	TYR	X	94	42.457	59.912	30.354	0.00	0.00
ATOM	1456	CD2	TYR	X	94	41.101	58.231	30.447	0.00	0.00
ATOM	1457	HD2	TYR	X	94	41.758	57.700	31.120	0.00	0.00
ATOM	1458	C	TYR	X	94	37.901	54.711	31.390	0.00	0.00
ATOM	1459	O	TYR	X	94	38.432	53.844	32.118	0.00	0.00
ATOM	1460	N	LEU	X	95	36.973	54.382	30.473	0.00	0.00
ATOM	1461	H	LEU	X	95	36.618	55.043	29.797	0.00	0.00
ATOM	1462	CA	LEU	X	95	36.539	52.991	30.165	0.00	0.00
ATOM	1463	HA	LEU	X	95	37.076	52.368	30.880	0.00	0.00
ATOM	1464	CB	LEU	X	95	34.965	52.830	30.269	0.00	0.00
ATOM	1465	HB2	LEU	X	95	34.510	53.817	30.349	0.00	0.00
ATOM	1466	HB3	LEU	X	95	34.571	52.276	29.417	0.00	0.00
ATOM	1467	CG	LEU	X	95	34.468	52.128	31.547	0.00	0.00
ATOM	1468	HG	LEU	X	95	34.988	52.380	32.471	0.00	0.00
ATOM	1469	CD1	LEU	X	95	32.994	52.315	31.774	0.00	0.00
ATOM	1470	HD11	LEU	X	95	32.738	53.373	31.830	0.00	0.00
ATOM	1471	HD12	LEU	X	95	32.671	51.673	32.594	0.00	0.00
ATOM	1472	HD13	LEU	X	95	32.541	51.989	30.838	0.00	0.00
ATOM	1473	CD2	LEU	X	95	34.727	50.642	31.497	0.00	0.00
ATOM	1474	HD21	LEU	X	95	34.325	50.124	32.368	0.00	0.00
ATOM	1475	HD22	LEU	X	95	34.205	50.241	30.628	0.00	0.00
ATOM	1476	HD23	LEU	X	95	35.802	50.468	31.473	0.00	0.00
ATOM	1477	C	LEU	X	95	37.021	52.635	28.726	0.00	0.00
ATOM	1478	O	LEU	X	95	37.315	53.464	27.909	0.00	0.00
ATOM	1479	N	ASN	X	96	37.098	51.331	28.437	0.00	0.00
ATOM	1480	H	ASN	X	96	37.079	50.662	29.193	0.00	0.00
ATOM	1481	CA	ASN	X	96	37.664	50.751	27.178	0.00	0.00
ATOM	1482	HA	ASN	X	96	37.443	51.409	26.338	0.00	0.00
ATOM	1483	CB	ASN	X	96	39.183	50.442	27.348	0.00	0.00
ATOM	1484	HB2	ASN	X	96	39.234	49.556	27.981	0.00	0.00
ATOM	1485	HB3	ASN	X	96	39.598	50.057	26.417	0.00	0.00
ATOM	1486	CG	ASN	X	96	40.085	51.617	27.886	0.00	0.00
ATOM	1487	OD1	ASN	X	96	40.468	52.535	27.245	0.00	0.00
ATOM	1488	ND2	ASN	X	96	40.254	51.710	29.182	0.00	0.00
ATOM	1489	HD21	ASN	X	96	40.930	52.335	29.598	0.00	0.00
ATOM	1490	HD22	ASN	X	96	39.671	51.105	29.742	0.00	0.00
ATOM	1491	C	ASN	X	96	36.908	49.359	26.856	0.00	0.00
ATOM	1492	O	ASN	X	96	36.432	48.749	27.809	0.00	0.00
ATOM	1493	N	VAL	X	97	36.641	49.081	25.596	0.00	0.00
ATOM	1494	H	VAL	X	97	37.000	49.595	24.804	0.00	0.00
ATOM	1495	CA	VAL	X	97	35.701	48.039	25.167	0.00	0.00
ATOM	1496	HA	VAL	X	97	35.727	47.273	25.942	0.00	0.00
ATOM	1497	CB	VAL	X	97	34.242	48.608	25.040	0.00	0.00
ATOM	1498	HB	VAL	X	97	34.191	49.390	24.282	0.00	0.00
ATOM	1499	CG1	VAL	X	97	33.272	47.428	24.686	0.00	0.00
ATOM	1500	HG11	VAL	X	97	33.558	46.705	25.449	0.00	0.00
ATOM	1501	HG12	VAL	X	97	32.265	47.844	24.700	0.00	0.00
ATOM	1502	HG13	VAL	X	97	33.538	47.189	23.656	0.00	0.00
ATOM	1503	CG2	VAL	X	97	33.648	49.218	26.312	0.00	0.00
ATOM	1504	HG21	VAL	X	97	33.986	48.828	27.272	0.00	0.00
ATOM	1505	HG22	VAL	X	97	32.562	49.209	26.396	0.00	0.00
ATOM	1506	HG23	VAL	X	97	33.867	50.283	26.239	0.00	0.00
ATOM	1507	C	VAL	X	97	36.240	47.425	23.894	0.00	0.00
ATOM	1508	O	VAL	X	97	36.306	48.112	22.863	0.00	0.00
ATOM	1509	N	TRP	X	98	36.331	46.082	23.922	0.00	0.00
ATOM	1510	H	TRP	X	98	36.039	45.655	24.790	0.00	0.00
ATOM	1511	CA	TRP	X	98	36.626	45.144	22.801	0.00	0.00
ATOM	1512	HA	TRP	X	98	36.889	45.748	21.933	0.00	0.00
ATOM	1513	CB	TRP	X	98	37.830	44.279	23.112	0.00	0.00
ATOM	1514	HB2	TRP	X	98	37.446	43.817	24.021	0.00	0.00
ATOM	1515	HB3	TRP	X	98	37.994	43.549	22.319	0.00	0.00
ATOM	1516	CG	TRP	X	98	39.190	44.954	23.285	0.00	0.00
ATOM	1517	CD1	TRP	X	98	40.324	44.704	22.488	0.00	0.00
ATOM	1518	HD1	TRP	X	98	40.389	44.156	21.560	0.00	0.00
ATOM	1519	NE1	TRP	X	98	41.377	45.368	23.040	0.00	0.00

ATOM	1520	HE1	TRP	X	98	42.296	45.455	22.630	0.00	0.00
ATOM	1521	CE2	TRP	X	98	41.106	45.874	24.264	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	41.882	46.417	25.243	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	42.917	46.517	24.952	0.00	0.00
ATOM	1524	CH2	TRP	X	98	41.196	46.969	26.363	0.00	0.00
ATOM	1525	HH2	TRP	X	98	41.703	47.527	27.137	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	39.840	46.735	26.589	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	39.242	47.124	27.400	0.00	0.00
ATOM	1528	CE3	TRP	X	98	39.037	46.199	25.562	0.00	0.00
ATOM	1529	HE3	TRP	X	98	37.977	46.037	25.689	0.00	0.00
ATOM	1530	CD2	TRP	X	98	39.700	45.735	24.404	0.00	0.00
ATOM	1531	C	TRP	X	98	35.431	44.108	22.447	0.00	0.00
ATOM	1532	O	TRP	X	98	34.902	43.374	23.324	0.00	0.00
ATOM	1533	N	THR	X	99	35.122	44.056	21.155	0.00	0.00
ATOM	1534	H	THR	X	99	35.597	44.544	20.408	0.00	0.00
ATOM	1535	CA	THR	X	99	33.937	43.464	20.560	0.00	0.00
ATOM	1536	HA	THR	X	99	33.701	42.537	21.082	0.00	0.00
ATOM	1537	CB	THR	X	99	32.765	44.418	20.738	0.00	0.00
ATOM	1538	HB	THR	X	99	32.683	44.688	21.791	0.00	0.00
ATOM	1539	CG2	THR	X	99	32.899	45.727	19.896	0.00	0.00
ATOM	1540	HG21	THR	X	99	32.117	46.463	20.081	0.00	0.00
ATOM	1541	HG22	THR	X	99	32.813	45.496	18.834	0.00	0.00
ATOM	1542	HG23	THR	X	99	33.868	46.158	20.146	0.00	0.00
ATOM	1543	OG1	THR	X	99	31.588	43.791	20.415	0.00	0.00
ATOM	1544	HG1	THR	X	99	30.867	44.268	20.833	0.00	0.00
ATOM	1545	C	THR	X	99	34.180	43.028	19.084	0.00	0.00
ATOM	1546	O	THR	X	99	35.047	43.642	18.429	0.00	0.00
ATOM	1547	N	PRO	X	100	33.538	41.985	18.541	0.00	0.00
ATOM	1548	CD	PRO	X	100	32.770	40.937	19.286	0.00	0.00
ATOM	1549	HD2	PRO	X	100	31.940	41.346	19.862	0.00	0.00
ATOM	1550	HD3	PRO	X	100	33.503	40.479	19.950	0.00	0.00
ATOM	1551	CG	PRO	X	100	32.347	39.904	18.224	0.00	0.00
ATOM	1552	HG2	PRO	X	100	31.411	40.108	17.704	0.00	0.00
ATOM	1553	HG3	PRO	X	100	32.177	38.929	18.681	0.00	0.00
ATOM	1554	CB	PRO	X	100	33.467	39.986	17.199	0.00	0.00
ATOM	1555	HB2	PRO	X	100	33.069	39.843	16.194	0.00	0.00
ATOM	1556	HB3	PRO	X	100	34.287	39.344	17.522	0.00	0.00
ATOM	1557	CA	PRO	X	100	33.965	41.457	17.226	0.00	0.00
ATOM	1558	HA	PRO	X	100	35.050	41.347	17.245	0.00	0.00
ATOM	1559	C	PRO	X	100	33.531	42.330	16.029	0.00	0.00
ATOM	1560	O	PRO	X	100	32.752	43.205	16.198	0.00	0.00
ATOM	1561	N	TYR	X	101	34.149	42.035	14.878	0.00	0.00
ATOM	1562	H	TYR	X	101	34.824	41.290	14.781	0.00	0.00
ATOM	1563	CA	TYR	X	101	33.849	42.798	13.703	0.00	0.00
ATOM	1564	HA	TYR	X	101	33.020	43.499	13.800	0.00	0.00
ATOM	1565	CB	TYR	X	101	35.022	43.703	13.362	0.00	0.00
ATOM	1566	HB2	TYR	X	101	35.162	44.323	14.248	0.00	0.00
ATOM	1567	HB3	TYR	X	101	35.882	43.139	13.000	0.00	0.00
ATOM	1568	CG	TYR	X	101	34.725	44.606	12.219	0.00	0.00
ATOM	1569	CD1	TYR	X	101	34.657	44.116	10.920	0.00	0.00
ATOM	1570	HD1	TYR	X	101	34.748	43.060	10.716	0.00	0.00
ATOM	1571	CE1	TYR	X	101	34.422	45.038	9.895	0.00	0.00
ATOM	1572	HE1	TYR	X	101	34.351	44.679	8.879	0.00	0.00
ATOM	1573	CZ	TYR	X	101	34.115	46.406	10.157	0.00	0.00
ATOM	1574	OH	TYR	X	101	33.645	47.269	9.129	0.00	0.00
ATOM	1575	HH	TYR	X	101	33.541	46.836	8.278	0.00	0.00
ATOM	1576	CE2	TYR	X	101	34.145	46.915	11.486	0.00	0.00
ATOM	1577	HE2	TYR	X	101	33.813	47.919	11.702	0.00	0.00
ATOM	1578	CD2	TYR	X	101	34.478	46.013	12.540	0.00	0.00
ATOM	1579	HD2	TYR	X	101	34.632	46.328	13.561	0.00	0.00
ATOM	1580	C	TYR	X	101	33.486	41.870	12.594	0.00	0.00
ATOM	1581	O	TYR	X	101	34.269	40.950	12.317	0.00	0.00
ATOM	1582	N	PRO	X	102	32.337	41.943	11.982	0.00	0.00
ATOM	1583	CD	PRO	X	102	32.090	41.229	10.744	0.00	0.00
ATOM	1584	HD2	PRO	X	102	31.975	40.166	10.957	0.00	0.00
ATOM	1585	HD3	PRO	X	102	32.874	41.459	10.022	0.00	0.00
ATOM	1586	CG	PRO	X	102	30.744	41.692	10.197	0.00	0.00

ATOM	1587	HG2	PRO	X	102	30.007	40.924	10.429	0.00	0.00
ATOM	1588	HG3	PRO	X	102	30.773	41.872	9.122	0.00	0.00
ATOM	1589	CB	PRO	X	102	30.455	42.998	10.847	0.00	0.00
ATOM	1590	HB2	PRO	X	102	29.389	43.045	11.072	0.00	0.00
ATOM	1591	HB3	PRO	X	102	30.703	43.926	10.332	0.00	0.00
ATOM	1592	CA	PRO	X	102	31.300	42.976	12.156	0.00	0.00
ATOM	1593	HA	PRO	X	102	31.780	43.932	12.366	0.00	0.00
ATOM	1594	C	PRO	X	102	30.340	42.648	13.393	0.00	0.00
ATOM	1595	O	PRO	X	102	29.933	41.427	13.605	0.00	0.00
ATOM	1596	N	ARG	X	103	30.153	43.556	14.257	0.00	0.00
ATOM	1597	H	ARG	X	103	30.620	44.408	13.982	0.00	0.00
ATOM	1598	CA	ARG	X	103	29.620	43.458	15.628	0.00	0.00
ATOM	1599	HA	ARG	X	103	30.218	42.711	16.149	0.00	0.00
ATOM	1600	CB	ARG	X	103	29.808	44.887	16.179	0.00	0.00
ATOM	1601	HB2	ARG	X	103	30.731	45.325	15.800	0.00	0.00
ATOM	1602	HB3	ARG	X	103	29.068	45.606	15.826	0.00	0.00
ATOM	1603	CG	ARG	X	103	29.885	44.914	17.682	0.00	0.00
ATOM	1604	HG2	ARG	X	103	29.098	44.337	18.168	0.00	0.00
ATOM	1605	HG3	ARG	X	103	30.785	44.371	17.970	0.00	0.00
ATOM	1606	CD	ARG	X	103	29.926	46.364	18.347	0.00	0.00
ATOM	1607	HD2	ARG	X	103	30.104	46.112	19.392	0.00	0.00
ATOM	1608	HD3	ARG	X	103	30.743	46.877	17.840	0.00	0.00
ATOM	1609	NE	ARG	X	103	28.668	47.115	18.123	0.00	0.00
ATOM	1610	HE	ARG	X	103	27.913	46.931	18.769	0.00	0.00
ATOM	1611	CZ	ARG	X	103	28.500	48.220	17.360	0.00	0.00
ATOM	1612	NH1	ARG	X	103	29.499	48.821	16.765	0.00	0.00
ATOM	1613	HH11	ARG	X	103	30.316	48.262	16.564	0.00	0.00
ATOM	1614	HH12	ARG	X	103	29.411	49.765	16.417	0.00	0.00
ATOM	1615	NH2	ARG	X	103	27.261	48.686	17.250	0.00	0.00
ATOM	1616	HH21	ARG	X	103	26.464	48.126	17.513	0.00	0.00
ATOM	1617	HH22	ARG	X	103	27.060	49.429	16.596	0.00	0.00
ATOM	1618	C	ARG	X	103	28.205	42.925	15.761	0.00	0.00
ATOM	1619	O	ARG	X	103	27.427	43.516	15.041	0.00	0.00
ATOM	1620	N	PRO	X	104	28.043	41.880	16.555	0.00	0.00
ATOM	1621	CD	PRO	X	104	29.051	41.122	17.298	0.00	0.00
ATOM	1622	HD2	PRO	X	104	29.691	41.816	17.842	0.00	0.00
ATOM	1623	HD3	PRO	X	104	29.583	40.456	16.619	0.00	0.00
ATOM	1624	CG	PRO	X	104	28.291	40.363	18.387	0.00	0.00
ATOM	1625	HG2	PRO	X	104	28.211	41.054	19.226	0.00	0.00
ATOM	1626	HG3	PRO	X	104	28.911	39.491	18.593	0.00	0.00
ATOM	1627	CB	PRO	X	104	27.015	40.073	17.604	0.00	0.00
ATOM	1628	HB2	PRO	X	104	26.166	39.706	18.180	0.00	0.00
ATOM	1629	HB3	PRO	X	104	27.173	39.248	16.910	0.00	0.00
ATOM	1630	CA	PRO	X	104	26.759	41.306	16.747	0.00	0.00
ATOM	1631	HA	PRO	X	104	26.415	41.103	15.733	0.00	0.00
ATOM	1632	C	PRO	X	104	25.835	42.351	17.442	0.00	0.00
ATOM	1633	O	PRO	X	104	26.224	43.043	18.377	0.00	0.00
ATOM	1634	N	THR	X	105	24.554	42.234	17.182	0.00	0.00
ATOM	1635	H	THR	X	105	24.280	41.384	16.711	0.00	0.00
ATOM	1636	CA	THR	X	105	23.449	43.080	17.720	0.00	0.00
ATOM	1637	HA	THR	X	105	23.808	44.013	18.153	0.00	0.00
ATOM	1638	CB	THR	X	105	22.592	43.571	16.591	0.00	0.00
ATOM	1639	HB	THR	X	105	21.842	44.280	16.942	0.00	0.00
ATOM	1640	CG2	THR	X	105	23.368	44.297	15.538	0.00	0.00
ATOM	1641	HG21	THR	X	105	24.154	43.697	15.080	0.00	0.00
ATOM	1642	HG22	THR	X	105	23.788	45.103	16.139	0.00	0.00
ATOM	1643	HG23	THR	X	105	22.592	44.734	14.908	0.00	0.00
ATOM	1644	OG1	THR	X	105	21.947	42.498	15.966	0.00	0.00
ATOM	1645	HG1	THR	X	105	21.497	42.822	15.183	0.00	0.00
ATOM	1646	C	THR	X	105	22.620	42.403	18.741	0.00	0.00
ATOM	1647	O	THR	X	105	21.784	43.060	19.347	0.00	0.00
ATOM	1648	N	SER	X	106	22.792	41.139	18.978	0.00	0.00
ATOM	1649	H	SER	X	106	23.436	40.629	18.390	0.00	0.00
ATOM	1650	CA	SER	X	106	22.140	40.305	19.981	0.00	0.00
ATOM	1651	HA	SER	X	106	21.110	40.649	20.075	0.00	0.00
ATOM	1652	CB	SER	X	106	22.237	38.800	19.430	0.00	0.00
ATOM	1653	HB2	SER	X	106	23.288	38.514	19.456	0.00	0.00

ATOM	1654	HB3	SER	X	106	21.677	38.152	20.104	0.00	0.00
ATOM	1655	OG	SER	X	106	21.687	38.765	18.144	0.00	0.00
ATOM	1656	HG	SER	X	106	22.390	38.716	17.493	0.00	0.00
ATOM	1657	C	SER	X	106	22.763	40.422	21.382	0.00	0.00
ATOM	1658	O	SER	X	106	23.827	41.015	21.533	0.00	0.00
ATOM	1659	N	PRO	X	107	22.229	39.953	22.515	0.00	0.00
ATOM	1660	CD	PRO	X	107	20.880	39.404	22.581	0.00	0.00
ATOM	1661	HD2	PRO	X	107	20.729	38.786	21.696	0.00	0.00
ATOM	1662	HD3	PRO	X	107	20.114	40.179	22.579	0.00	0.00
ATOM	1663	CG	PRO	X	107	20.680	38.754	24.012	0.00	0.00
ATOM	1664	HG2	PRO	X	107	20.911	37.689	24.009	0.00	0.00
ATOM	1665	HG3	PRO	X	107	19.647	38.876	24.338	0.00	0.00
ATOM	1666	CB	PRO	X	107	21.761	39.558	24.824	0.00	0.00
ATOM	1667	HB2	PRO	X	107	22.134	39.030	25.702	0.00	0.00
ATOM	1668	HB3	PRO	X	107	21.248	40.501	25.016	0.00	0.00
ATOM	1669	CA	PRO	X	107	22.863	39.865	23.797	0.00	0.00
ATOM	1670	HA	PRO	X	107	23.255	40.855	24.026	0.00	0.00
ATOM	1671	C	PRO	X	107	24.023	38.867	23.852	0.00	0.00
ATOM	1672	O	PRO	X	107	23.965	37.853	23.171	0.00	0.00
ATOM	1673	N	THR	X	108	25.025	39.126	24.654	0.00	0.00
ATOM	1674	H	THR	X	108	25.029	40.060	25.039	0.00	0.00
ATOM	1675	CA	THR	X	108	26.062	38.166	24.954	0.00	0.00
ATOM	1676	HA	THR	X	108	25.574	37.199	25.078	0.00	0.00
ATOM	1677	CB	THR	X	108	26.958	38.156	23.676	0.00	0.00
ATOM	1678	HB	THR	X	108	26.812	39.157	23.271	0.00	0.00
ATOM	1679	CG2	THR	X	108	28.463	38.016	24.011	0.00	0.00
ATOM	1680	HG21	THR	X	108	28.704	37.103	24.556	0.00	0.00
ATOM	1681	HG22	THR	X	108	28.842	38.874	24.565	0.00	0.00
ATOM	1682	HG23	THR	X	108	29.045	38.072	23.091	0.00	0.00
ATOM	1683	OG1	THR	X	108	26.518	37.238	22.750	0.00	0.00
ATOM	1684	HG1	THR	X	108	25.574	37.375	22.637	0.00	0.00
ATOM	1685	C	THR	X	108	26.643	38.522	26.288	0.00	0.00
ATOM	1686	O	THR	X	108	26.931	39.713	26.506	0.00	0.00
ATOM	1687	N	PRO	X	109	27.148	37.551	27.094	0.00	0.00
ATOM	1688	CD	PRO	X	109	27.057	36.108	26.822	0.00	0.00
ATOM	1689	HD2	PRO	X	109	27.437	35.858	25.831	0.00	0.00
ATOM	1690	HD3	PRO	X	109	26.051	35.739	27.023	0.00	0.00
ATOM	1691	CG	PRO	X	109	28.029	35.463	27.796	0.00	0.00
ATOM	1692	HG2	PRO	X	109	29.005	35.559	27.321	0.00	0.00
ATOM	1693	HG3	PRO	X	109	27.754	34.479	28.174	0.00	0.00
ATOM	1694	CB	PRO	X	109	27.944	36.338	28.974	0.00	0.00
ATOM	1695	HB2	PRO	X	109	28.822	36.271	29.617	0.00	0.00
ATOM	1696	HB3	PRO	X	109	27.117	36.079	29.635	0.00	0.00
ATOM	1697	CA	PRO	X	109	27.767	37.775	28.405	0.00	0.00
ATOM	1698	HA	PRO	X	109	27.043	38.277	29.047	0.00	0.00
ATOM	1699	C	PRO	X	109	29.085	38.604	28.350	0.00	0.00
ATOM	1700	O	PRO	X	109	29.760	38.427	27.383	0.00	0.00
ATOM	1701	N	VAL	X	110	29.355	39.451	29.341	0.00	0.00
ATOM	1702	H	VAL	X	110	28.729	39.432	30.134	0.00	0.00
ATOM	1703	CA	VAL	X	110	30.392	40.426	29.316	0.00	0.00
ATOM	1704	HA	VAL	X	110	30.876	40.307	28.347	0.00	0.00
ATOM	1705	CB	VAL	X	110	29.806	41.876	29.588	0.00	0.00
ATOM	1706	HB	VAL	X	110	29.461	41.893	30.622	0.00	0.00
ATOM	1707	CG1	VAL	X	110	30.852	42.968	29.459	0.00	0.00
ATOM	1708	HG11	VAL	X	110	30.462	43.970	29.638	0.00	0.00
ATOM	1709	HG12	VAL	X	110	31.634	42.704	30.171	0.00	0.00
ATOM	1710	HG13	VAL	X	110	31.341	42.948	28.485	0.00	0.00
ATOM	1711	CG2	VAL	X	110	28.624	42.260	28.633	0.00	0.00
ATOM	1712	HG21	VAL	X	110	28.346	43.282	28.890	0.00	0.00
ATOM	1713	HG22	VAL	X	110	27.697	41.687	28.667	0.00	0.00
ATOM	1714	HG23	VAL	X	110	29.087	42.279	27.646	0.00	0.00
ATOM	1715	C	VAL	X	110	31.435	40.102	30.410	0.00	0.00
ATOM	1716	O	VAL	X	110	31.067	39.787	31.529	0.00	0.00
ATOM	1717	N	LEU	X	111	32.698	40.291	30.080	0.00	0.00
ATOM	1718	H	LEU	X	111	32.771	40.572	29.113	0.00	0.00
ATOM	1719	CA	LEU	X	111	33.839	40.125	30.868	0.00	0.00
ATOM	1720	HA	LEU	X	111	33.626	39.687	31.842	0.00	0.00

ATOM	1721	CB	LEU	X	111	34.871	39.255	30.027	0.00	0.00
ATOM	1722	HB2	LEU	X	111	34.679	39.575	29.003	0.00	0.00
ATOM	1723	HB3	LEU	X	111	35.893	39.464	30.344	0.00	0.00
ATOM	1724	CG	LEU	X	111	34.618	37.711	30.237	0.00	0.00
ATOM	1725	HG	LEU	X	111	33.574	37.430	30.104	0.00	0.00
ATOM	1726	CD1	LEU	X	111	35.337	36.979	29.103	0.00	0.00
ATOM	1727	HD11	LEU	X	111	34.873	35.994	29.048	0.00	0.00
ATOM	1728	HD12	LEU	X	111	36.364	36.718	29.359	0.00	0.00
ATOM	1729	HD13	LEU	X	111	34.998	37.448	28.179	0.00	0.00
ATOM	1730	CD2	LEU	X	111	35.092	37.189	31.621	0.00	0.00
ATOM	1731	HD21	LEU	X	111	34.659	37.832	32.387	0.00	0.00
ATOM	1732	HD22	LEU	X	111	34.855	36.131	31.735	0.00	0.00
ATOM	1733	HD23	LEU	X	111	36.169	37.290	31.761	0.00	0.00
ATOM	1734	C	LEU	X	111	34.334	41.561	31.156	0.00	0.00
ATOM	1735	O	LEU	X	111	34.999	42.172	30.371	0.00	0.00
ATOM	1736	N	VAL	X	112	34.201	41.972	32.405	0.00	0.00
ATOM	1737	H	VAL	X	112	33.742	41.344	33.050	0.00	0.00
ATOM	1738	CA	VAL	X	112	34.684	43.270	32.979	0.00	0.00
ATOM	1739	HA	VAL	X	112	35.087	43.772	32.100	0.00	0.00
ATOM	1740	CB	VAL	X	112	33.536	44.029	33.678	0.00	0.00
ATOM	1741	HB	VAL	X	112	33.222	43.372	34.489	0.00	0.00
ATOM	1742	CG1	VAL	X	112	34.135	45.280	34.299	0.00	0.00
ATOM	1743	HG11	VAL	X	112	34.947	45.057	34.990	0.00	0.00
ATOM	1744	HG12	VAL	X	112	34.511	45.880	33.470	0.00	0.00
ATOM	1745	HG13	VAL	X	112	33.359	45.880	34.775	0.00	0.00
ATOM	1746	CG2	VAL	X	112	32.290	44.453	32.853	0.00	0.00
ATOM	1747	HG21	VAL	X	112	32.610	45.369	32.356	0.00	0.00
ATOM	1748	HG22	VAL	X	112	31.470	44.693	33.531	0.00	0.00
ATOM	1749	HG23	VAL	X	112	32.098	43.662	32.129	0.00	0.00
ATOM	1750	C	VAL	X	112	35.923	43.099	33.861	0.00	0.00
ATOM	1751	O	VAL	X	112	35.866	42.536	34.938	0.00	0.00
ATOM	1752	N	TRP	X	113	37.030	43.642	33.297	0.00	0.00
ATOM	1753	H	TRP	X	113	36.889	44.027	32.374	0.00	0.00
ATOM	1754	CA	TRP	X	113	38.471	43.625	33.784	0.00	0.00
ATOM	1755	HA	TRP	X	113	38.736	42.673	34.244	0.00	0.00
ATOM	1756	CB	TRP	X	113	39.437	43.659	32.627	0.00	0.00
ATOM	1757	HB2	TRP	X	113	39.284	42.806	31.966	0.00	0.00
ATOM	1758	HB3	TRP	X	113	39.268	44.589	32.085	0.00	0.00
ATOM	1759	CG	TRP	X	113	40.841	43.572	33.067	0.00	0.00
ATOM	1760	CD1	TRP	X	113	41.768	44.581	33.129	0.00	0.00
ATOM	1761	HD1	TRP	X	113	41.611	45.618	32.873	0.00	0.00
ATOM	1762	NE1	TRP	X	113	42.912	44.060	33.658	0.00	0.00
ATOM	1763	HE1	TRP	X	113	43.735	44.643	33.712	0.00	0.00
ATOM	1764	CE2	TRP	X	113	42.820	42.788	34.031	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	43.736	41.932	34.669	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	44.736	42.200	34.974	0.00	0.00
ATOM	1767	CH2	TRP	X	113	43.345	40.604	34.921	0.00	0.00
ATOM	1768	HH2	TRP	X	113	44.043	39.943	35.412	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	42.069	40.163	34.475	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	41.606	39.247	34.809	0.00	0.00
ATOM	1771	CE3	TRP	X	113	41.171	41.089	33.953	0.00	0.00
ATOM	1772	HE3	TRP	X	113	40.216	40.756	33.575	0.00	0.00
ATOM	1773	CD2	TRP	X	113	41.496	42.414	33.668	0.00	0.00
ATOM	1774	C	TRP	X	113	38.817	44.683	34.865	0.00	0.00
ATOM	1775	O	TRP	X	113	38.522	45.852	34.746	0.00	0.00
ATOM	1776	N	ILE	X	114	39.422	44.231	35.948	0.00	0.00
ATOM	1777	H	ILE	X	114	39.691	43.261	36.023	0.00	0.00
ATOM	1778	CA	ILE	X	114	39.997	44.989	37.051	0.00	0.00
ATOM	1779	HA	ILE	X	114	39.987	46.060	36.851	0.00	0.00
ATOM	1780	CB	ILE	X	114	39.051	44.872	38.267	0.00	0.00
ATOM	1781	HB	ILE	X	114	38.850	43.816	38.446	0.00	0.00
ATOM	1782	CG2	ILE	X	114	39.695	45.536	39.475	0.00	0.00
ATOM	1783	HG21	ILE	X	114	39.316	45.144	40.418	0.00	0.00
ATOM	1784	HG22	ILE	X	114	39.591	46.621	39.445	0.00	0.00
ATOM	1785	HG23	ILE	X	114	40.741	45.227	39.478	0.00	0.00
ATOM	1786	CG1	ILE	X	114	37.737	45.634	37.919	0.00	0.00
ATOM	1787	HG12	ILE	X	114	37.950	46.701	37.854	0.00	0.00

ATOM	1788	HG13	ILE	X	114	37.410	45.323	36.927	0.00	0.00
ATOM	1789	CD1	ILE	X	114	36.609	45.303	38.928	0.00	0.00
ATOM	1790	HD11	ILE	X	114	36.823	45.504	39.978	0.00	0.00
ATOM	1791	HD12	ILE	X	114	36.282	44.263	38.898	0.00	0.00
ATOM	1792	HD13	ILE	X	114	35.834	45.979	38.568	0.00	0.00
ATOM	1793	C	ILE	X	114	41.488	44.423	37.248	0.00	0.00
ATOM	1794	O	ILE	X	114	41.632	43.220	37.464	0.00	0.00
ATOM	1795	N	TYR	X	115	42.565	45.197	37.337	0.00	0.00
ATOM	1796	H	TYR	X	115	42.388	46.187	37.244	0.00	0.00
ATOM	1797	CA	TYR	X	115	43.960	44.839	37.522	0.00	0.00
ATOM	1798	HA	TYR	X	115	44.198	43.868	37.088	0.00	0.00
ATOM	1799	CB	TYR	X	115	44.752	45.719	36.497	0.00	0.00
ATOM	1800	HB2	TYR	X	115	45.796	45.407	36.515	0.00	0.00
ATOM	1801	HB3	TYR	X	115	44.359	45.604	35.487	0.00	0.00
ATOM	1802	CG	TYR	X	115	44.629	47.197	36.720	0.00	0.00
ATOM	1803	CD1	TYR	X	115	45.033	47.808	37.867	0.00	0.00
ATOM	1804	HD1	TYR	X	115	45.583	47.298	38.644	0.00	0.00
ATOM	1805	CE1	TYR	X	115	45.031	49.193	38.093	0.00	0.00
ATOM	1806	HE1	TYR	X	115	45.366	49.642	39.017	0.00	0.00
ATOM	1807	CZ	TYR	X	115	44.319	49.987	37.139	0.00	0.00
ATOM	1808	OH	TYR	X	115	44.131	51.248	37.512	0.00	0.00
ATOM	1809	HH	TYR	X	115	44.703	51.381	38.271	0.00	0.00
ATOM	1810	CE2	TYR	X	115	43.688	49.378	35.970	0.00	0.00
ATOM	1811	HE2	TYR	X	115	43.014	49.925	35.328	0.00	0.00
ATOM	1812	CD2	TYR	X	115	43.826	47.952	35.773	0.00	0.00
ATOM	1813	HD2	TYR	X	115	43.353	47.492	34.918	0.00	0.00
ATOM	1814	C	TYR	X	115	44.586	44.908	38.896	0.00	0.00
ATOM	1815	O	TYR	X	115	44.050	45.479	39.879	0.00	0.00
ATOM	1816	N	GLY	X	116	45.764	44.321	39.057	0.00	0.00
ATOM	1817	H	GLY	X	116	46.168	43.775	38.309	0.00	0.00
ATOM	1818	CA	GLY	X	116	46.552	44.259	40.329	0.00	0.00
ATOM	1819	HA2	GLY	X	116	45.923	44.477	41.192	0.00	0.00
ATOM	1820	HA3	GLY	X	116	47.028	43.309	40.571	0.00	0.00
ATOM	1821	C	GLY	X	116	47.566	45.324	40.317	0.00	0.00
ATOM	1822	O	GLY	X	116	47.543	46.215	39.484	0.00	0.00
ATOM	1823	N	GLY	X	117	48.497	45.257	41.340	0.00	0.00
ATOM	1824	H	GLY	X	117	48.356	44.526	42.022	0.00	0.00
ATOM	1825	CA	GLY	X	117	49.586	46.192	41.453	0.00	0.00
ATOM	1826	HA2	GLY	X	117	50.528	45.659	41.327	0.00	0.00
ATOM	1827	HA3	GLY	X	117	49.628	47.008	40.731	0.00	0.00
ATOM	1828	C	GLY	X	117	49.733	46.794	42.857	0.00	0.00
ATOM	1829	O	GLY	X	117	50.253	47.926	42.985	0.00	0.00
ATOM	1830	N	GLY	X	118	49.215	46.029	43.806	0.00	0.00
ATOM	1831	H	GLY	X	118	48.786	45.157	43.528	0.00	0.00
ATOM	1832	CA	GLY	X	118	49.351	46.248	45.253	0.00	0.00
ATOM	1833	HA2	GLY	X	118	49.042	45.373	45.825	0.00	0.00
ATOM	1834	HA3	GLY	X	118	50.427	46.233	45.430	0.00	0.00
ATOM	1835	C	GLY	X	118	48.611	47.485	45.886	0.00	0.00
ATOM	1836	O	GLY	X	118	48.910	47.892	46.979	0.00	0.00
ATOM	1837	N	PHE	X	119	47.649	48.091	45.051	0.00	0.00
ATOM	1838	H	PHE	X	119	47.348	47.489	44.298	0.00	0.00
ATOM	1839	CA	PHE	X	119	46.918	49.312	45.217	0.00	0.00
ATOM	1840	HA	PHE	X	119	46.312	49.289	44.311	0.00	0.00
ATOM	1841	CB	PHE	X	119	45.973	49.189	46.445	0.00	0.00
ATOM	1842	HB2	PHE	X	119	46.616	49.121	47.323	0.00	0.00
ATOM	1843	HB3	PHE	X	119	45.445	50.126	46.620	0.00	0.00
ATOM	1844	CG	PHE	X	119	45.024	48.026	46.351	0.00	0.00
ATOM	1845	CD1	PHE	X	119	43.784	48.350	45.730	0.00	0.00
ATOM	1846	HD1	PHE	X	119	43.667	49.272	45.179	0.00	0.00
ATOM	1847	CE1	PHE	X	119	42.739	47.455	45.801	0.00	0.00
ATOM	1848	HE1	PHE	X	119	41.805	47.659	45.298	0.00	0.00
ATOM	1849	CZ	PHE	X	119	42.863	46.218	46.510	0.00	0.00
ATOM	1850	HZ	PHE	X	119	42.038	45.543	46.682	0.00	0.00
ATOM	1851	CE2	PHE	X	119	44.097	45.885	47.107	0.00	0.00
ATOM	1852	HE2	PHE	X	119	44.122	44.985	47.703	0.00	0.00
ATOM	1853	CD2	PHE	X	119	45.101	46.800	47.011	0.00	0.00
ATOM	1854	HD2	PHE	X	119	46.035	46.642	47.529	0.00	0.00

ATOM	1855	C	PHE	X	119	47.801	50.522	45.320	0.00	0.00
ATOM	1856	O	PHE	X	119	47.273	51.630	45.212	0.00	0.00
ATOM	1857	N	TYR	X	120	49.141	50.364	45.506	0.00	0.00
ATOM	1858	H	TYR	X	120	49.464	49.425	45.691	0.00	0.00
ATOM	1859	CA	TYR	X	120	50.073	51.475	45.271	0.00	0.00
ATOM	1860	HA	TYR	X	120	49.581	52.338	45.719	0.00	0.00
ATOM	1861	CB	TYR	X	120	51.424	51.079	45.944	0.00	0.00
ATOM	1862	HB2	TYR	X	120	52.012	51.980	46.121	0.00	0.00
ATOM	1863	HB3	TYR	X	120	51.346	50.737	46.976	0.00	0.00
ATOM	1864	CG	TYR	X	120	52.422	50.161	45.249	0.00	0.00
ATOM	1865	CD1	TYR	X	120	53.607	50.702	44.705	0.00	0.00
ATOM	1866	HD1	TYR	X	120	53.863	51.743	44.835	0.00	0.00
ATOM	1867	CE1	TYR	X	120	54.575	49.896	44.118	0.00	0.00
ATOM	1868	HE1	TYR	X	120	55.524	50.294	43.789	0.00	0.00
ATOM	1869	CZ	TYR	X	120	54.282	48.502	43.901	0.00	0.00
ATOM	1870	OH	TYR	X	120	55.218	47.690	43.280	0.00	0.00
ATOM	1871	HH	TYR	X	120	55.022	46.751	43.322	0.00	0.00
ATOM	1872	CE2	TYR	X	120	53.055	47.969	44.430	0.00	0.00
ATOM	1873	HE2	TYR	X	120	52.856	46.915	44.299	0.00	0.00
ATOM	1874	CD2	TYR	X	120	52.217	48.760	45.174	0.00	0.00
ATOM	1875	HD2	TYR	X	120	51.312	48.346	45.594	0.00	0.00
ATOM	1876	C	TYR	X	120	50.341	51.828	43.854	0.00	0.00
ATOM	1877	O	TYR	X	120	50.958	52.884	43.554	0.00	0.00
ATOM	1878	N	SER	X	121	50.002	50.876	42.937	0.00	0.00
ATOM	1879	H	SER	X	121	49.518	50.074	43.315	0.00	0.00
ATOM	1880	CA	SER	X	121	50.219	50.962	41.449	0.00	0.00
ATOM	1881	HA	SER	X	121	49.975	51.983	41.154	0.00	0.00
ATOM	1882	CB	SER	X	121	51.694	50.739	41.133	0.00	0.00
ATOM	1883	HB2	SER	X	121	51.753	50.817	40.047	0.00	0.00
ATOM	1884	HB3	SER	X	121	52.235	51.502	41.693	0.00	0.00
ATOM	1885	OG	SER	X	121	52.232	49.477	41.500	0.00	0.00
ATOM	1886	HG	SER	X	121	51.891	49.325	42.385	0.00	0.00
ATOM	1887	C	SER	X	121	49.236	50.069	40.645	0.00	0.00
ATOM	1888	O	SER	X	121	48.253	49.586	41.184	0.00	0.00
ATOM	1889	N	GLY	X	122	49.461	49.780	39.345	0.00	0.00
ATOM	1890	H	GLY	X	122	50.160	50.352	38.894	0.00	0.00
ATOM	1891	CA	GLY	X	122	48.378	49.384	38.429	0.00	0.00
ATOM	1892	HA2	GLY	X	122	48.883	48.601	37.863	0.00	0.00
ATOM	1893	HA3	GLY	X	122	47.467	49.018	38.903	0.00	0.00
ATOM	1894	C	GLY	X	122	47.846	50.529	37.485	0.00	0.00
ATOM	1895	O	GLY	X	122	47.398	51.548	37.950	0.00	0.00
ATOM	1896	N	ALA	X	123	47.620	50.243	36.209	0.00	0.00
ATOM	1897	H	ALA	X	123	47.942	49.351	35.863	0.00	0.00
ATOM	1898	CA	ALA	X	123	46.973	51.143	35.233	0.00	0.00
ATOM	1899	HA	ALA	X	123	46.137	51.738	35.602	0.00	0.00
ATOM	1900	CB	ALA	X	123	48.009	52.149	34.798	0.00	0.00
ATOM	1901	HB1	ALA	X	123	48.933	51.639	34.527	0.00	0.00
ATOM	1902	HB2	ALA	X	123	48.110	52.846	35.630	0.00	0.00
ATOM	1903	HB3	ALA	X	123	47.699	52.822	33.999	0.00	0.00
ATOM	1904	C	ALA	X	123	46.460	50.271	34.069	0.00	0.00
ATOM	1905	O	ALA	X	123	47.102	49.287	33.702	0.00	0.00
ATOM	1906	N	SER	X	124	45.335	50.626	33.469	0.00	0.00
ATOM	1907	H	SER	X	124	44.911	51.481	33.800	0.00	0.00
ATOM	1908	CA	SER	X	124	44.681	50.041	32.311	0.00	0.00
ATOM	1909	HA	SER	X	124	44.293	49.047	32.536	0.00	0.00
ATOM	1910	CB	SER	X	124	43.477	50.910	31.897	0.00	0.00
ATOM	1911	HB2	SER	X	124	43.136	50.479	30.956	0.00	0.00
ATOM	1912	HB3	SER	X	124	42.709	50.897	32.671	0.00	0.00
ATOM	1913	OG	SER	X	124	43.930	52.246	31.640	0.00	0.00
ATOM	1914	HG	SER	X	124	44.031	52.671	32.495	0.00	0.00
ATOM	1915	C	SER	X	124	45.434	49.900	30.955	0.00	0.00
ATOM	1916	O	SER	X	124	45.095	49.096	30.076	0.00	0.00
ATOM	1917	N	SER	X	125	46.458	50.737	30.663	0.00	0.00
ATOM	1918	H	SER	X	125	46.635	51.439	31.368	0.00	0.00
ATOM	1919	CA	SER	X	125	47.125	50.935	29.360	0.00	0.00
ATOM	1920	HA	SER	X	125	46.458	50.678	28.537	0.00	0.00
ATOM	1921	CB	SER	X	125	47.352	52.409	29.174	0.00	0.00

ATOM	1922	HB2	SER	X	125	47.751	52.585	28.176	0.00	0.00
ATOM	1923	HB3	SER	X	125	46.406	52.951	29.165	0.00	0.00
ATOM	1924	OG	SER	X	125	48.216	53.018	30.174	0.00	0.00
ATOM	1925	HG	SER	X	125	49.107	52.970	29.821	0.00	0.00
ATOM	1926	C	SER	X	125	48.400	50.099	29.206	0.00	0.00
ATOM	1927	O	SER	X	125	49.246	50.438	28.383	0.00	0.00
ATOM	1928	N	LEU	X	126	48.664	49.219	30.131	0.00	0.00
ATOM	1929	H	LEU	X	126	47.931	49.199	30.824	0.00	0.00
ATOM	1930	CA	LEU	X	126	49.903	48.434	30.261	0.00	0.00
ATOM	1931	HA	LEU	X	126	50.769	49.018	29.949	0.00	0.00
ATOM	1932	CB	LEU	X	126	50.055	47.983	31.670	0.00	0.00
ATOM	1933	HB2	LEU	X	126	49.176	47.413	31.971	0.00	0.00
ATOM	1934	HB3	LEU	X	126	50.819	47.207	31.722	0.00	0.00
ATOM	1935	CG	LEU	X	126	50.383	49.058	32.704	0.00	0.00
ATOM	1936	HG	LEU	X	126	49.682	49.893	32.705	0.00	0.00
ATOM	1937	CD1	LEU	X	126	50.406	48.546	34.194	0.00	0.00
ATOM	1938	HD11	LEU	X	126	50.446	49.346	34.933	0.00	0.00
ATOM	1939	HD12	LEU	X	126	51.316	47.967	34.353	0.00	0.00
ATOM	1940	HD13	LEU	X	126	49.484	48.004	34.404	0.00	0.00
ATOM	1941	CD2	LEU	X	126	51.775	49.735	32.471	0.00	0.00
ATOM	1942	HD21	LEU	X	126	52.559	48.981	32.536	0.00	0.00
ATOM	1943	HD22	LEU	X	126	51.729	50.108	31.448	0.00	0.00
ATOM	1944	HD23	LEU	X	126	51.879	50.492	33.249	0.00	0.00
ATOM	1945	C	LEU	X	126	49.841	47.267	29.279	0.00	0.00
ATOM	1946	O	LEU	X	126	48.808	46.562	29.212	0.00	0.00
ATOM	1947	N	ASP	X	127	50.945	46.890	28.573	0.00	0.00
ATOM	1948	H	ASP	X	127	51.804	47.356	28.830	0.00	0.00
ATOM	1949	CA	ASP	X	127	51.113	45.855	27.499	0.00	0.00
ATOM	1950	HA	ASP	X	127	50.448	46.036	26.655	0.00	0.00
ATOM	1951	CB	ASP	X	127	52.412	46.147	26.799	0.00	0.00
ATOM	1952	HB2	ASP	X	127	52.347	47.207	26.557	0.00	0.00
ATOM	1953	HB3	ASP	X	127	53.245	46.147	27.501	0.00	0.00
ATOM	1954	CG	ASP	X	127	52.770	45.237	25.548	0.00	0.00
ATOM	1955	OD1	ASP	X	127	51.873	44.812	24.759	0.00	0.00
ATOM	1956	OD2	ASP	X	127	53.948	44.922	25.260	0.00	0.00
ATOM	1957	C	ASP	X	127	50.836	44.377	27.870	0.00	0.00
ATOM	1958	O	ASP	X	127	51.766	43.594	27.952	0.00	0.00
ATOM	1959	N	VAL	X	128	49.613	44.003	28.234	0.00	0.00
ATOM	1960	H	VAL	X	128	48.839	44.652	28.211	0.00	0.00
ATOM	1961	CA	VAL	X	128	49.352	42.676	28.784	0.00	0.00
ATOM	1962	HA	VAL	X	128	49.669	41.884	28.105	0.00	0.00
ATOM	1963	CB	VAL	X	128	50.107	42.417	30.168	0.00	0.00
ATOM	1964	HB	VAL	X	128	51.183	42.488	30.007	0.00	0.00
ATOM	1965	CG1	VAL	X	128	49.876	43.394	31.313	0.00	0.00
ATOM	1966	HG11	VAL	X	128	50.681	43.324	32.045	0.00	0.00
ATOM	1967	HG12	VAL	X	128	49.849	44.358	30.805	0.00	0.00
ATOM	1968	HG13	VAL	X	128	48.881	43.358	31.757	0.00	0.00
ATOM	1969	CG2	VAL	X	128	49.751	40.970	30.714	0.00	0.00
ATOM	1970	HG21	VAL	X	128	48.721	40.930	31.069	0.00	0.00
ATOM	1971	HG22	VAL	X	128	50.443	40.699	31.511	0.00	0.00
ATOM	1972	HG23	VAL	X	128	49.905	40.222	29.936	0.00	0.00
ATOM	1973	C	VAL	X	128	47.844	42.539	28.998	0.00	0.00
ATOM	1974	O	VAL	X	128	47.190	41.529	28.658	0.00	0.00
ATOM	1975	N	TYR	X	129	47.164	43.600	29.317	0.00	0.00
ATOM	1976	H	TYR	X	129	47.660	44.343	29.788	0.00	0.00
ATOM	1977	CA	TYR	X	129	45.747	43.630	29.390	0.00	0.00
ATOM	1978	HA	TYR	X	129	45.417	42.638	29.700	0.00	0.00
ATOM	1979	CB	TYR	X	129	45.291	44.626	30.520	0.00	0.00
ATOM	1980	HB2	TYR	X	129	45.529	45.577	30.044	0.00	0.00
ATOM	1981	HB3	TYR	X	129	44.212	44.562	30.661	0.00	0.00
ATOM	1982	CG	TYR	X	129	46.043	44.602	31.827	0.00	0.00
ATOM	1983	CD1	TYR	X	129	46.181	43.416	32.591	0.00	0.00
ATOM	1984	HD1	TYR	X	129	45.663	42.554	32.199	0.00	0.00
ATOM	1985	CE1	TYR	X	129	46.889	43.391	33.829	0.00	0.00
ATOM	1986	HE1	TYR	X	129	46.998	42.536	34.480	0.00	0.00
ATOM	1987	CZ	TYR	X	129	47.517	44.630	34.273	0.00	0.00
ATOM	1988	OH	TYR	X	129	48.204	44.632	35.413	0.00	0.00

ATOM	1989	HH	TYR	X	129	47.864	43.921	35.962	0.00	0.00
ATOM	1990	CE2	TYR	X	129	47.356	45.768	33.487	0.00	0.00
ATOM	1991	HE2	TYR	X	129	47.787	46.685	33.861	0.00	0.00
ATOM	1992	CD2	TYR	X	129	46.543	45.865	32.318	0.00	0.00
ATOM	1993	HD2	TYR	X	129	46.320	46.810	31.845	0.00	0.00
ATOM	1994	C	TYR	X	129	45.098	43.940	27.992	0.00	0.00
ATOM	1995	O	TYR	X	129	44.700	45.115	27.840	0.00	0.00
ATOM	1996	N	ASP	X	130	44.819	43.013	27.095	0.00	0.00
ATOM	1997	H	ASP	X	130	45.119	42.073	27.313	0.00	0.00
ATOM	1998	CA	ASP	X	130	43.996	43.308	25.866	0.00	0.00
ATOM	1999	HA	ASP	X	130	43.347	44.151	26.103	0.00	0.00
ATOM	2000	CB	ASP	X	130	44.892	43.661	24.757	0.00	0.00
ATOM	2001	HB2	ASP	X	130	45.535	44.461	25.124	0.00	0.00
ATOM	2002	HB3	ASP	X	130	45.468	42.762	24.534	0.00	0.00
ATOM	2003	CG	ASP	X	130	44.239	44.113	23.417	0.00	0.00
ATOM	2004	OD1	ASP	X	130	43.909	43.220	22.586	0.00	0.00
ATOM	2005	OD2	ASP	X	130	44.214	45.280	22.975	0.00	0.00
ATOM	2006	C	ASP	X	130	42.989	42.114	25.380	0.00	0.00
ATOM	2007	O	ASP	X	130	43.298	40.926	25.402	0.00	0.00
ATOM	2008	N	GLY	X	131	41.830	42.522	24.849	0.00	0.00
ATOM	2009	H	GLY	X	131	41.699	43.493	24.604	0.00	0.00
ATOM	2010	CA	GLY	X	131	40.731	41.661	24.522	0.00	0.00
ATOM	2011	HA2	GLY	X	131	40.528	40.977	25.347	0.00	0.00
ATOM	2012	HA3	GLY	X	131	39.844	42.291	24.454	0.00	0.00
ATOM	2013	C	GLY	X	131	40.848	40.820	23.179	0.00	0.00
ATOM	2014	O	GLY	X	131	40.042	39.906	23.025	0.00	0.00
ATOM	2015	N	ARG	X	132	41.764	41.194	22.140	0.00	0.00
ATOM	2016	H	ARG	X	132	42.370	41.985	22.302	0.00	0.00
ATOM	2017	CA	ARG	X	132	41.434	40.972	20.765	0.00	0.00
ATOM	2018	HA	ARG	X	132	40.400	41.316	20.794	0.00	0.00
ATOM	2019	CB	ARG	X	132	42.275	41.765	19.785	0.00	0.00
ATOM	2020	HB2	ARG	X	132	41.787	41.731	18.811	0.00	0.00
ATOM	2021	HB3	ARG	X	132	42.207	42.809	20.090	0.00	0.00
ATOM	2022	CG	ARG	X	132	43.737	41.345	19.707	0.00	0.00
ATOM	2023	HG2	ARG	X	132	44.150	41.387	20.715	0.00	0.00
ATOM	2024	HG3	ARG	X	132	43.829	40.347	19.279	0.00	0.00
ATOM	2025	CD	ARG	X	132	44.586	42.342	18.958	0.00	0.00
ATOM	2026	HD2	ARG	X	132	45.546	41.877	18.733	0.00	0.00
ATOM	2027	HD3	ARG	X	132	44.052	42.645	18.058	0.00	0.00
ATOM	2028	NE	ARG	X	132	44.804	43.474	19.841	0.00	0.00
ATOM	2029	HE	ARG	X	132	44.472	43.392	20.791	0.00	0.00
ATOM	2030	CZ	ARG	X	132	45.357	44.623	19.500	0.00	0.00
ATOM	2031	NH1	ARG	X	132	45.856	44.900	18.329	0.00	0.00
ATOM	2032	HH11	ARG	X	132	45.785	44.217	17.588	0.00	0.00
ATOM	2033	HH12	ARG	X	132	46.100	45.859	18.128	0.00	0.00
ATOM	2034	NH2	ARG	X	132	45.431	45.544	20.461	0.00	0.00
ATOM	2035	HH21	ARG	X	132	44.947	45.312	21.317	0.00	0.00
ATOM	2036	HH22	ARG	X	132	45.676	46.503	20.260	0.00	0.00
ATOM	2037	C	ARG	X	132	41.279	39.451	20.411	0.00	0.00
ATOM	2038	O	ARG	X	132	40.326	38.983	19.850	0.00	0.00
ATOM	2039	N	PHE	X	133	42.163	38.639	20.923	0.00	0.00
ATOM	2040	H	PHE	X	133	42.799	38.908	21.659	0.00	0.00
ATOM	2041	CA	PHE	X	133	42.144	37.203	20.542	0.00	0.00
ATOM	2042	HA	PHE	X	133	41.918	37.092	19.482	0.00	0.00
ATOM	2043	CB	PHE	X	133	43.484	36.557	20.815	0.00	0.00
ATOM	2044	HB2	PHE	X	133	43.654	36.471	21.888	0.00	0.00
ATOM	2045	HB3	PHE	X	133	43.538	35.577	20.340	0.00	0.00
ATOM	2046	CG	PHE	X	133	44.686	37.344	20.297	0.00	0.00
ATOM	2047	CD1	PHE	X	133	45.215	38.378	21.102	0.00	0.00
ATOM	2048	HD1	PHE	X	133	44.908	38.444	22.135	0.00	0.00
ATOM	2049	CE1	PHE	X	133	46.247	39.197	20.609	0.00	0.00
ATOM	2050	HE1	PHE	X	133	46.561	39.928	21.339	0.00	0.00
ATOM	2051	CZ	PHE	X	133	46.785	38.941	19.371	0.00	0.00
ATOM	2052	HZ	PHE	X	133	47.698	39.459	19.119	0.00	0.00
ATOM	2053	CE2	PHE	X	133	46.260	37.976	18.511	0.00	0.00
ATOM	2054	HE2	PHE	X	133	46.658	37.658	17.558	0.00	0.00
ATOM	2055	CD2	PHE	X	133	45.166	37.217	18.960	0.00	0.00

ATOM	2056	HD2	PHE	X	133	44.812	36.460	18.275	0.00	0.00
ATOM	2057	C	PHE	X	133	41.015	36.483	21.313	0.00	0.00
ATOM	2058	O	PHE	X	133	40.450	35.544	20.811	0.00	0.00
ATOM	2059	N	LEU	X	134	40.790	36.850	22.545	0.00	0.00
ATOM	2060	H	LEU	X	134	41.306	37.644	22.897	0.00	0.00
ATOM	2061	CA	LEU	X	134	39.699	36.270	23.431	0.00	0.00
ATOM	2062	HA	LEU	X	134	39.825	35.188	23.419	0.00	0.00
ATOM	2063	CB	LEU	X	134	39.978	36.828	24.852	0.00	0.00
ATOM	2064	HB2	LEU	X	134	41.025	36.627	25.076	0.00	0.00
ATOM	2065	HB3	LEU	X	134	39.854	37.910	24.893	0.00	0.00
ATOM	2066	CG	LEU	X	134	39.091	36.122	25.868	0.00	0.00
ATOM	2067	HG	LEU	X	134	38.040	36.152	25.583	0.00	0.00
ATOM	2068	CD1	LEU	X	134	39.419	34.579	25.990	0.00	0.00
ATOM	2069	HD11	LEU	X	134	38.789	34.161	26.775	0.00	0.00
ATOM	2070	HD12	LEU	X	134	40.448	34.310	26.232	0.00	0.00
ATOM	2071	HD13	LEU	X	134	39.168	34.042	25.075	0.00	0.00
ATOM	2072	CD2	LEU	X	134	39.336	36.794	27.197	0.00	0.00
ATOM	2073	HD21	LEU	X	134	38.471	36.504	27.792	0.00	0.00
ATOM	2074	HD22	LEU	X	134	40.171	36.450	27.808	0.00	0.00
ATOM	2075	HD23	LEU	X	134	39.364	37.877	27.072	0.00	0.00
ATOM	2076	C	LEU	X	134	38.255	36.518	22.922	0.00	0.00
ATOM	2077	O	LEU	X	134	37.451	35.634	22.803	0.00	0.00
ATOM	2078	N	VAL	X	135	38.079	37.730	22.445	0.00	0.00
ATOM	2079	H	VAL	X	135	38.793	38.411	22.659	0.00	0.00
ATOM	2080	CA	VAL	X	135	36.888	38.285	21.680	0.00	0.00
ATOM	2081	HA	VAL	X	135	36.014	38.070	22.295	0.00	0.00
ATOM	2082	CB	VAL	X	135	37.031	39.787	21.548	0.00	0.00
ATOM	2083	HB	VAL	X	135	37.947	40.038	21.014	0.00	0.00
ATOM	2084	CG1	VAL	X	135	35.879	40.316	20.745	0.00	0.00
ATOM	2085	HG11	VAL	X	135	35.976	41.391	20.591	0.00	0.00
ATOM	2086	HG12	VAL	X	135	35.741	39.909	19.744	0.00	0.00
ATOM	2087	HG13	VAL	X	135	34.966	40.120	21.307	0.00	0.00
ATOM	2088	CG2	VAL	X	135	37.091	40.509	22.924	0.00	0.00
ATOM	2089	HG21	VAL	X	135	37.335	41.542	22.677	0.00	0.00
ATOM	2090	HG22	VAL	X	135	37.585	40.046	23.778	0.00	0.00
ATOM	2091	HG23	VAL	X	135	36.073	40.680	23.274	0.00	0.00
ATOM	2092	C	VAL	X	135	36.771	37.493	20.289	0.00	0.00
ATOM	2093	O	VAL	X	135	35.648	37.108	19.934	0.00	0.00
ATOM	2094	N	GLN	X	136	37.888	37.352	19.511	0.00	0.00
ATOM	2095	H	GLN	X	136	38.714	37.898	19.710	0.00	0.00
ATOM	2096	CA	GLN	X	136	37.826	36.736	18.217	0.00	0.00
ATOM	2097	HA	GLN	X	136	37.119	37.251	17.567	0.00	0.00
ATOM	2098	CB	GLN	X	136	39.138	36.967	17.515	0.00	0.00
ATOM	2099	HB2	GLN	X	136	39.501	37.980	17.691	0.00	0.00
ATOM	2100	HB3	GLN	X	136	39.847	36.302	18.008	0.00	0.00
ATOM	2101	CG	GLN	X	136	39.075	36.568	16.015	0.00	0.00
ATOM	2102	HG2	GLN	X	136	38.036	36.473	15.700	0.00	0.00
ATOM	2103	HG3	GLN	X	136	39.513	37.302	15.338	0.00	0.00
ATOM	2104	CD	GLN	X	136	39.794	35.282	15.748	0.00	0.00
ATOM	2105	OE1	GLN	X	136	41.015	35.189	15.797	0.00	0.00
ATOM	2106	NE2	GLN	X	136	39.028	34.265	15.406	0.00	0.00
ATOM	2107	HE21	GLN	X	136	39.411	33.356	15.189	0.00	0.00
ATOM	2108	HE22	GLN	X	136	38.041	34.448	15.520	0.00	0.00
ATOM	2109	C	GLN	X	136	37.448	35.265	18.302	0.00	0.00
ATOM	2110	O	GLN	X	136	36.853	34.847	17.350	0.00	0.00
ATOM	2111	N	ALA	X	137	37.783	34.553	19.413	0.00	0.00
ATOM	2112	H	ALA	X	137	38.126	35.054	20.220	0.00	0.00
ATOM	2113	CA	ALA	X	137	37.458	33.186	19.629	0.00	0.00
ATOM	2114	HA	ALA	X	137	37.299	32.788	18.626	0.00	0.00
ATOM	2115	CB	ALA	X	137	38.693	32.453	20.195	0.00	0.00
ATOM	2116	HB1	ALA	X	137	39.482	32.491	19.445	0.00	0.00
ATOM	2117	HB2	ALA	X	137	38.273	31.458	20.342	0.00	0.00
ATOM	2118	HB3	ALA	X	137	39.046	32.859	21.143	0.00	0.00
ATOM	2119	C	ALA	X	137	36.170	32.899	20.430	0.00	0.00
ATOM	2120	O	ALA	X	137	35.289	32.101	20.032	0.00	0.00
ATOM	2121	N	GLU	X	138	35.969	33.630	21.533	0.00	0.00
ATOM	2122	H	GLU	X	138	36.695	34.279	21.803	0.00	0.00

ATOM	2123	CA	GLU	X	138	34.879	33.282	22.540	0.00	0.00
ATOM	2124	HA	GLU	X	138	34.599	32.255	22.304	0.00	0.00
ATOM	2125	CB	GLU	X	138	35.397	33.208	24.012	0.00	0.00
ATOM	2126	HB2	GLU	X	138	35.847	34.180	24.209	0.00	0.00
ATOM	2127	HB3	GLU	X	138	34.579	33.072	24.720	0.00	0.00
ATOM	2128	CG	GLU	X	138	36.451	32.101	24.226	0.00	0.00
ATOM	2129	HG2	GLU	X	138	37.397	32.425	23.791	0.00	0.00
ATOM	2130	HG3	GLU	X	138	36.491	32.050	25.314	0.00	0.00
ATOM	2131	CD	GLU	X	138	36.023	30.705	23.734	0.00	0.00
ATOM	2132	OE1	GLU	X	138	35.071	30.085	24.283	0.00	0.00
ATOM	2133	OE2	GLU	X	138	36.567	30.240	22.703	0.00	0.00
ATOM	2134	C	GLU	X	138	33.681	34.198	22.375	0.00	0.00
ATOM	2135	O	GLU	X	138	32.616	33.812	22.776	0.00	0.00
ATOM	2136	N	ARG	X	139	33.814	35.383	21.659	0.00	0.00
ATOM	2137	H	ARG	X	139	34.733	35.513	21.261	0.00	0.00
ATOM	2138	CA	ARG	X	139	32.744	36.329	21.151	0.00	0.00
ATOM	2139	HA	ARG	X	139	33.161	37.166	20.590	0.00	0.00
ATOM	2140	CB	ARG	X	139	31.807	35.527	20.252	0.00	0.00
ATOM	2141	HB2	ARG	X	139	31.340	34.692	20.775	0.00	0.00
ATOM	2142	HB3	ARG	X	139	30.964	36.160	19.977	0.00	0.00
ATOM	2143	CG	ARG	X	139	32.592	35.111	19.021	0.00	0.00
ATOM	2144	HG2	ARG	X	139	33.224	35.911	18.635	0.00	0.00
ATOM	2145	HG3	ARG	X	139	33.287	34.303	19.251	0.00	0.00
ATOM	2146	CD	ARG	X	139	31.739	34.576	17.820	0.00	0.00
ATOM	2147	HD2	ARG	X	139	32.357	34.427	16.935	0.00	0.00
ATOM	2148	HD3	ARG	X	139	31.273	33.623	18.074	0.00	0.00
ATOM	2149	NE	ARG	X	139	30.591	35.459	17.487	0.00	0.00
ATOM	2150	HE	ARG	X	139	29.704	35.133	17.844	0.00	0.00
ATOM	2151	CZ	ARG	X	139	30.532	36.542	16.700	0.00	0.00
ATOM	2152	NH1	ARG	X	139	31.553	36.826	15.929	0.00	0.00
ATOM	2153	HH11	ARG	X	139	32.311	36.160	15.876	0.00	0.00
ATOM	2154	HH12	ARG	X	139	31.493	37.534	15.212	0.00	0.00
ATOM	2155	NH2	ARG	X	139	29.488	37.378	16.731	0.00	0.00
ATOM	2156	HH21	ARG	X	139	28.652	37.141	17.246	0.00	0.00
ATOM	2157	HH22	ARG	X	139	29.501	38.182	16.121	0.00	0.00
ATOM	2158	C	ARG	X	139	31.978	36.968	22.357	0.00	0.00
ATOM	2159	O	ARG	X	139	31.172	37.870	22.053	0.00	0.00
ATOM	2160	N	THR	X	140	32.259	36.576	23.605	0.00	0.00
ATOM	2161	H	THR	X	140	32.838	35.758	23.730	0.00	0.00
ATOM	2162	CA	THR	X	140	31.874	37.230	24.840	0.00	0.00
ATOM	2163	HA	THR	X	140	30.811	37.471	24.873	0.00	0.00
ATOM	2164	CB	THR	X	140	32.268	36.361	26.057	0.00	0.00
ATOM	2165	HB	THR	X	140	32.112	36.982	26.940	0.00	0.00
ATOM	2166	CG2	THR	X	140	31.480	35.067	26.116	0.00	0.00
ATOM	2167	HG21	THR	X	140	30.428	35.207	25.866	0.00	0.00
ATOM	2168	HG22	THR	X	140	31.679	34.549	27.055	0.00	0.00
ATOM	2169	HG23	THR	X	140	31.967	34.455	25.358	0.00	0.00
ATOM	2170	OG1	THR	X	140	33.599	36.071	25.936	0.00	0.00
ATOM	2171	HG1	THR	X	140	34.043	36.809	25.512	0.00	0.00
ATOM	2172	C	THR	X	140	32.597	38.576	24.853	0.00	0.00
ATOM	2173	O	THR	X	140	33.837	38.515	24.634	0.00	0.00
ATOM	2174	N	VAL	X	141	31.859	39.651	25.118	0.00	0.00
ATOM	2175	H	VAL	X	141	31.024	39.465	25.655	0.00	0.00
ATOM	2176	CA	VAL	X	141	32.243	41.026	25.025	0.00	0.00
ATOM	2177	HA	VAL	X	141	32.762	41.172	24.077	0.00	0.00
ATOM	2178	CB	VAL	X	141	31.067	41.998	24.894	0.00	0.00
ATOM	2179	HB	VAL	X	141	30.352	41.698	25.660	0.00	0.00
ATOM	2180	CG1	VAL	X	141	31.302	43.481	25.096	0.00	0.00
ATOM	2181	HG11	VAL	X	141	31.925	43.985	24.358	0.00	0.00
ATOM	2182	HG12	VAL	X	141	30.387	44.072	25.145	0.00	0.00
ATOM	2183	HG13	VAL	X	141	31.693	43.732	26.082	0.00	0.00
ATOM	2184	CG2	VAL	X	141	30.419	41.735	23.504	0.00	0.00
ATOM	2185	HG21	VAL	X	141	29.396	42.081	23.360	0.00	0.00
ATOM	2186	HG22	VAL	X	141	30.346	40.649	23.437	0.00	0.00
ATOM	2187	HG23	VAL	X	141	31.131	41.919	22.699	0.00	0.00
ATOM	2188	C	VAL	X	141	33.219	41.400	26.208	0.00	0.00
ATOM	2189	O	VAL	X	141	32.952	40.959	27.298	0.00	0.00

ATOM	2190	N	LEU	X	142	34.138	42.314	25.966	0.00	0.00
ATOM	2191	H	LEU	X	142	34.369	42.637	25.037	0.00	0.00
ATOM	2192	CA	LEU	X	142	35.167	42.624	26.982	0.00	0.00
ATOM	2193	HA	LEU	X	142	34.825	42.178	27.916	0.00	0.00
ATOM	2194	CB	LEU	X	142	36.458	41.842	26.634	0.00	0.00
ATOM	2195	HB2	LEU	X	142	36.142	40.836	26.357	0.00	0.00
ATOM	2196	HB3	LEU	X	142	36.958	42.229	25.746	0.00	0.00
ATOM	2197	CG	LEU	X	142	37.556	41.787	27.770	0.00	0.00
ATOM	2198	HG	LEU	X	142	37.065	41.853	28.741	0.00	0.00
ATOM	2199	CD1	LEU	X	142	38.351	40.447	27.684	0.00	0.00
ATOM	2200	HD11	LEU	X	142	38.696	40.318	26.658	0.00	0.00
ATOM	2201	HD12	LEU	X	142	37.659	39.623	27.860	0.00	0.00
ATOM	2202	HD13	LEU	X	142	39.203	40.453	28.364	0.00	0.00
ATOM	2203	CD2	LEU	X	142	38.484	42.915	27.723	0.00	0.00
ATOM	2204	HD21	LEU	X	142	38.934	43.022	26.736	0.00	0.00
ATOM	2205	HD22	LEU	X	142	37.975	43.859	27.917	0.00	0.00
ATOM	2206	HD23	LEU	X	142	39.256	42.844	28.490	0.00	0.00
ATOM	2207	C	LEU	X	142	35.430	44.087	27.284	0.00	0.00
ATOM	2208	O	LEU	X	142	35.687	44.842	26.320	0.00	0.00
ATOM	2209	N	VAL	X	143	35.454	44.321	28.548	0.00	0.00
ATOM	2210	H	VAL	X	143	35.201	43.555	29.157	0.00	0.00
ATOM	2211	CA	VAL	X	143	35.546	45.684	29.143	0.00	0.00
ATOM	2212	HA	VAL	X	143	35.608	46.419	28.340	0.00	0.00
ATOM	2213	CB	VAL	X	143	34.215	46.015	29.928	0.00	0.00
ATOM	2214	HB	VAL	X	143	33.954	45.317	30.723	0.00	0.00
ATOM	2215	CG1	VAL	X	143	34.164	47.416	30.438	0.00	0.00
ATOM	2216	HG11	VAL	X	143	34.343	48.136	29.641	0.00	0.00
ATOM	2217	HG12	VAL	X	143	33.169	47.587	30.848	0.00	0.00
ATOM	2218	HG13	VAL	X	143	34.908	47.502	31.231	0.00	0.00
ATOM	2219	CG2	VAL	X	143	32.985	45.851	28.992	0.00	0.00
ATOM	2220	HG21	VAL	X	143	32.899	44.787	28.773	0.00	0.00
ATOM	2221	HG22	VAL	X	143	33.131	46.339	28.029	0.00	0.00
ATOM	2222	HG23	VAL	X	143	32.004	46.142	29.368	0.00	0.00
ATOM	2223	C	VAL	X	143	36.854	45.794	29.971	0.00	0.00
ATOM	2224	O	VAL	X	143	37.256	44.819	30.548	0.00	0.00
ATOM	2225	N	SER	X	144	37.378	47.052	30.076	0.00	0.00
ATOM	2226	H	SER	X	144	37.081	47.811	29.479	0.00	0.00
ATOM	2227	CA	SER	X	144	38.396	47.491	31.068	0.00	0.00
ATOM	2228	HA	SER	X	144	38.264	46.851	31.940	0.00	0.00
ATOM	2229	CB	SER	X	144	39.818	47.181	30.489	0.00	0.00
ATOM	2230	HB2	SER	X	144	39.970	46.105	30.408	0.00	0.00
ATOM	2231	HB3	SER	X	144	40.006	47.429	29.444	0.00	0.00
ATOM	2232	OG	SER	X	144	40.867	47.577	31.324	0.00	0.00
ATOM	2233	HG	SER	X	144	41.624	47.172	30.894	0.00	0.00
ATOM	2234	C	SER	X	144	38.332	49.017	31.457	0.00	0.00
ATOM	2235	O	SER	X	144	38.151	49.871	30.584	0.00	0.00
ATOM	2236	N	MET	X	145	38.642	49.397	32.676	0.00	0.00
ATOM	2237	H	MET	X	145	38.899	48.660	33.317	0.00	0.00
ATOM	2238	CA	MET	X	145	38.524	50.706	33.389	0.00	0.00
ATOM	2239	HA	MET	X	145	38.169	51.495	32.726	0.00	0.00
ATOM	2240	CB	MET	X	145	37.512	50.554	34.506	0.00	0.00
ATOM	2241	HB2	MET	X	145	37.667	51.374	35.208	0.00	0.00
ATOM	2242	HB3	MET	X	145	36.528	50.529	34.038	0.00	0.00
ATOM	2243	CG	MET	X	145	37.755	49.155	35.140	0.00	0.00
ATOM	2244	HG2	MET	X	145	37.427	48.304	34.544	0.00	0.00
ATOM	2245	HG3	MET	X	145	38.820	49.025	35.330	0.00	0.00
ATOM	2246	SD	MET	X	145	36.826	48.853	36.651	0.00	0.00
ATOM	2247	CE	MET	X	145	35.337	48.065	36.121	0.00	0.00
ATOM	2248	HE1	MET	X	145	35.547	46.997	36.182	0.00	0.00
ATOM	2249	HE2	MET	X	145	34.520	48.310	36.800	0.00	0.00
ATOM	2250	HE3	MET	X	145	35.103	48.320	35.088	0.00	0.00
ATOM	2251	C	MET	X	145	39.901	51.219	33.786	0.00	0.00
ATOM	2252	O	MET	X	145	40.695	50.419	34.186	0.00	0.00
ATOM	2253	N	ASN	X	146	40.046	52.537	33.865	0.00	0.00
ATOM	2254	H	ASN	X	146	39.254	53.089	33.568	0.00	0.00
ATOM	2255	CA	ASN	X	146	41.207	53.180	34.602	0.00	0.00
ATOM	2256	HA	ASN	X	146	41.964	52.417	34.784	0.00	0.00

ATOM	2257	CB	ASN	X	146	41.866	54.267	33.742	0.00	0.00
ATOM	2258	HB2	ASN	X	146	41.697	54.052	32.687	0.00	0.00
ATOM	2259	HB3	ASN	X	146	41.299	55.185	33.899	0.00	0.00
ATOM	2260	CG	ASN	X	146	43.378	54.338	33.900	0.00	0.00
ATOM	2261	OD1	ASN	X	146	44.107	53.348	33.981	0.00	0.00
ATOM	2262	ND2	ASN	X	146	43.969	55.501	33.760	0.00	0.00
ATOM	2263	HD21	ASN	X	146	44.971	55.620	33.741	0.00	0.00
ATOM	2264	HD22	ASN	X	146	43.428	56.347	33.868	0.00	0.00
ATOM	2265	C	ASN	X	146	40.688	53.672	36.002	0.00	0.00
ATOM	2266	O	ASN	X	146	39.493	53.915	36.110	0.00	0.00
ATOM	2267	N	TYR	X	147	41.525	53.709	37.065	0.00	0.00
ATOM	2268	H	TYR	X	147	42.410	53.236	36.950	0.00	0.00
ATOM	2269	CA	TYR	X	147	41.195	54.027	38.476	0.00	0.00
ATOM	2270	HA	TYR	X	147	40.695	54.996	38.491	0.00	0.00
ATOM	2271	CB	TYR	X	147	40.210	53.074	39.210	0.00	0.00
ATOM	2272	HB2	TYR	X	147	40.129	53.453	40.229	0.00	0.00
ATOM	2273	HB3	TYR	X	147	39.233	53.031	38.728	0.00	0.00
ATOM	2274	CG	TYR	X	147	40.709	51.648	39.212	0.00	0.00
ATOM	2275	CD1	TYR	X	147	40.290	50.808	38.257	0.00	0.00
ATOM	2276	HD1	TYR	X	147	39.557	51.100	37.520	0.00	0.00
ATOM	2277	CE1	TYR	X	147	40.693	49.452	38.212	0.00	0.00
ATOM	2278	HE1	TYR	X	147	40.222	48.837	37.458	0.00	0.00
ATOM	2279	CZ	TYR	X	147	41.711	48.996	39.045	0.00	0.00
ATOM	2280	OH	TYR	X	147	42.015	47.688	38.938	0.00	0.00
ATOM	2281	HH	TYR	X	147	42.766	47.452	39.488	0.00	0.00
ATOM	2282	CE2	TYR	X	147	42.227	49.886	40.028	0.00	0.00
ATOM	2283	HE2	TYR	X	147	42.969	49.536	40.730	0.00	0.00
ATOM	2284	CD2	TYR	X	147	41.711	51.190	40.124	0.00	0.00
ATOM	2285	HD2	TYR	X	147	42.021	51.875	40.900	0.00	0.00
ATOM	2286	C	TYR	X	147	42.400	54.363	39.349	0.00	0.00
ATOM	2287	O	TYR	X	147	43.563	53.974	39.091	0.00	0.00
ATOM	2288	N	ARG	X	148	42.141	55.210	40.331	0.00	0.00
ATOM	2289	H	ARG	X	148	41.176	55.389	40.571	0.00	0.00
ATOM	2290	CA	ARG	X	148	43.265	55.880	41.107	0.00	0.00
ATOM	2291	HA	ARG	X	148	44.056	56.285	40.475	0.00	0.00
ATOM	2292	CB	ARG	X	148	42.635	57.188	41.662	0.00	0.00
ATOM	2293	HB2	ARG	X	148	41.818	56.905	42.326	0.00	0.00
ATOM	2294	HB3	ARG	X	148	43.467	57.630	42.210	0.00	0.00
ATOM	2295	CG	ARG	X	148	42.113	58.144	40.511	0.00	0.00
ATOM	2296	HG2	ARG	X	148	43.022	58.468	40.004	0.00	0.00
ATOM	2297	HG3	ARG	X	148	41.428	57.593	39.867	0.00	0.00
ATOM	2298	CD	ARG	X	148	41.410	59.297	41.109	0.00	0.00
ATOM	2299	HD2	ARG	X	148	42.066	59.640	41.909	0.00	0.00
ATOM	2300	HD3	ARG	X	148	41.206	60.059	40.357	0.00	0.00
ATOM	2301	NE	ARG	X	148	40.114	58.898	41.660	0.00	0.00
ATOM	2302	HE	ARG	X	148	39.698	58.003	41.446	0.00	0.00
ATOM	2303	CZ	ARG	X	148	39.434	59.664	42.508	0.00	0.00
ATOM	2304	NH1	ARG	X	148	39.785	60.835	42.990	0.00	0.00
ATOM	2305	HH11	ARG	X	148	40.676	61.174	42.657	0.00	0.00
ATOM	2306	HH12	ARG	X	148	39.179	61.347	43.615	0.00	0.00
ATOM	2307	NH2	ARG	X	148	38.287	59.244	42.842	0.00	0.00
ATOM	2308	HH21	ARG	X	148	38.017	58.358	42.439	0.00	0.00
ATOM	2309	HH22	ARG	X	148	37.655	59.782	43.418	0.00	0.00
ATOM	2310	C	ARG	X	148	43.833	54.928	42.138	0.00	0.00
ATOM	2311	O	ARG	X	148	43.240	54.003	42.567	0.00	0.00
ATOM	2312	N	VAL	X	149	45.056	55.111	42.489	0.00	0.00
ATOM	2313	H	VAL	X	149	45.610	55.782	41.976	0.00	0.00
ATOM	2314	CA	VAL	X	149	45.883	54.168	43.294	0.00	0.00
ATOM	2315	HA	VAL	X	149	45.156	53.701	43.958	0.00	0.00
ATOM	2316	CB	VAL	X	149	46.660	53.084	42.517	0.00	0.00
ATOM	2317	HB	VAL	X	149	47.573	52.715	42.986	0.00	0.00
ATOM	2318	CG1	VAL	X	149	45.805	51.904	42.113	0.00	0.00
ATOM	2319	HG11	VAL	X	149	44.848	52.240	41.714	0.00	0.00
ATOM	2320	HG12	VAL	X	149	46.263	51.247	41.374	0.00	0.00
ATOM	2321	HG13	VAL	X	149	45.604	51.273	42.979	0.00	0.00
ATOM	2322	CG2	VAL	X	149	47.201	53.681	41.199	0.00	0.00
ATOM	2323	HG21	VAL	X	149	46.377	54.068	40.599	0.00	0.00

ATOM	2324	HG22	VAL	X	149	47.803	53.021	40.574	0.00	0.00
ATOM	2325	HG23	VAL	X	149	47.794	54.562	41.442	0.00	0.00
ATOM	2326	C	VAL	X	149	46.859	55.040	44.113	0.00	0.00
ATOM	2327	O	VAL	X	149	47.163	56.169	43.797	0.00	0.00
ATOM	2328	N	GLY	X	150	47.427	54.418	45.117	0.00	0.00
ATOM	2329	H	GLY	X	150	47.123	53.485	45.353	0.00	0.00
ATOM	2330	CA	GLY	X	150	48.388	55.148	45.963	0.00	0.00
ATOM	2331	HA2	GLY	X	150	48.758	54.511	46.766	0.00	0.00
ATOM	2332	HA3	GLY	X	150	49.221	55.520	45.365	0.00	0.00
ATOM	2333	C	GLY	X	150	47.643	56.243	46.765	0.00	0.00
ATOM	2334	O	GLY	X	150	46.458	56.072	47.086	0.00	0.00
ATOM	2335	N	ALA	X	151	48.320	57.376	47.070	0.00	0.00
ATOM	2336	H	ALA	X	151	49.270	57.505	46.753	0.00	0.00
ATOM	2337	CA	ALA	X	151	47.605	58.442	47.875	0.00	0.00
ATOM	2338	HA	ALA	X	151	47.106	58.069	48.770	0.00	0.00
ATOM	2339	CB	ALA	X	151	48.720	59.481	48.224	0.00	0.00
ATOM	2340	HB1	ALA	X	151	49.066	60.028	47.347	0.00	0.00
ATOM	2341	HB2	ALA	X	151	49.476	58.965	48.816	0.00	0.00
ATOM	2342	HB3	ALA	X	151	48.280	60.278	48.825	0.00	0.00
ATOM	2343	C	ALA	X	151	46.397	58.967	47.087	0.00	0.00
ATOM	2344	O	ALA	X	151	45.300	58.930	47.693	0.00	0.00
ATOM	2345	N	PHE	X	152	46.533	59.232	45.789	0.00	0.00
ATOM	2346	H	PHE	X	152	47.430	59.178	45.329	0.00	0.00
ATOM	2347	CA	PHE	X	152	45.484	59.637	44.892	0.00	0.00
ATOM	2348	HA	PHE	X	152	45.067	60.598	45.192	0.00	0.00
ATOM	2349	CB	PHE	X	152	46.138	59.849	43.456	0.00	0.00
ATOM	2350	HB2	PHE	X	152	47.078	60.400	43.493	0.00	0.00
ATOM	2351	HB3	PHE	X	152	46.450	58.893	43.034	0.00	0.00
ATOM	2352	CG	PHE	X	152	45.219	60.501	42.453	0.00	0.00
ATOM	2353	CD1	PHE	X	152	45.409	60.117	41.086	0.00	0.00
ATOM	2354	HD1	PHE	X	152	46.109	59.320	40.887	0.00	0.00
ATOM	2355	CE1	PHE	X	152	44.609	60.750	40.127	0.00	0.00
ATOM	2356	HE1	PHE	X	152	44.810	60.526	39.089	0.00	0.00
ATOM	2357	CZ	PHE	X	152	43.770	61.778	40.543	0.00	0.00
ATOM	2358	HZ	PHE	X	152	43.291	62.373	39.780	0.00	0.00
ATOM	2359	CE2	PHE	X	152	43.725	62.279	41.861	0.00	0.00
ATOM	2360	HE2	PHE	X	152	43.226	63.234	41.931	0.00	0.00
ATOM	2361	CD2	PHE	X	152	44.559	61.668	42.797	0.00	0.00
ATOM	2362	HD2	PHE	X	152	44.677	62.121	43.771	0.00	0.00
ATOM	2363	C	PHE	X	152	44.238	58.700	44.816	0.00	0.00
ATOM	2364	O	PHE	X	152	43.129	59.084	44.410	0.00	0.00
ATOM	2365	N	GLY	X	153	44.382	57.425	45.335	0.00	0.00
ATOM	2366	H	GLY	X	153	45.278	57.026	45.576	0.00	0.00
ATOM	2367	CA	GLY	X	153	43.293	56.455	45.471	0.00	0.00
ATOM	2368	HA2	GLY	X	153	42.359	56.764	45.000	0.00	0.00
ATOM	2369	HA3	GLY	X	153	43.523	55.471	45.063	0.00	0.00
ATOM	2370	C	GLY	X	153	42.797	56.079	46.910	0.00	0.00
ATOM	2371	O	GLY	X	153	41.783	55.399	46.988	0.00	0.00
ATOM	2372	N	PHE	X	154	43.571	56.363	47.880	0.00	0.00
ATOM	2373	H	PHE	X	154	44.489	56.716	47.649	0.00	0.00
ATOM	2374	CA	PHE	X	154	43.499	55.558	49.101	0.00	0.00
ATOM	2375	HA	PHE	X	154	42.458	55.316	49.317	0.00	0.00
ATOM	2376	CB	PHE	X	154	44.265	54.233	48.963	0.00	0.00
ATOM	2377	HB2	PHE	X	154	45.287	54.308	48.591	0.00	0.00
ATOM	2378	HB3	PHE	X	154	44.252	53.666	49.894	0.00	0.00
ATOM	2379	CG	PHE	X	154	43.553	53.216	48.072	0.00	0.00
ATOM	2380	CD1	PHE	X	154	44.125	52.845	46.780	0.00	0.00
ATOM	2381	HD1	PHE	X	154	45.081	53.200	46.425	0.00	0.00
ATOM	2382	CE1	PHE	X	154	43.386	52.035	45.944	0.00	0.00
ATOM	2383	HE1	PHE	X	154	43.711	51.631	44.997	0.00	0.00
ATOM	2384	CZ	PHE	X	154	42.071	51.658	46.291	0.00	0.00
ATOM	2385	HZ	PHE	X	154	41.537	50.939	45.687	0.00	0.00
ATOM	2386	CE2	PHE	X	154	41.538	52.000	47.538	0.00	0.00
ATOM	2387	HE2	PHE	X	154	40.598	51.543	47.812	0.00	0.00
ATOM	2388	CD2	PHE	X	154	42.328	52.692	48.520	0.00	0.00
ATOM	2389	HD2	PHE	X	154	41.933	52.950	49.491	0.00	0.00
ATOM	2390	C	PHE	X	154	43.906	56.287	50.418	0.00	0.00

ATOM	2391	O	PHE	X	154	43.963	55.684	51.514	0.00	0.00
ATOM	2392	N	LEU	X	155	44.240	57.588	50.304	0.00	0.00
ATOM	2393	H	LEU	X	155	44.130	58.143	49.467	0.00	0.00
ATOM	2394	CA	LEU	X	155	44.668	58.299	51.546	0.00	0.00
ATOM	2395	HA	LEU	X	155	45.369	57.756	52.179	0.00	0.00
ATOM	2396	CB	LEU	X	155	45.370	59.608	51.051	0.00	0.00
ATOM	2397	HB2	LEU	X	155	46.050	59.322	50.249	0.00	0.00
ATOM	2398	HB3	LEU	X	155	44.649	60.202	50.488	0.00	0.00
ATOM	2399	CG	LEU	X	155	46.163	60.525	52.073	0.00	0.00
ATOM	2400	HG	LEU	X	155	46.595	59.949	52.892	0.00	0.00
ATOM	2401	CD1	LEU	X	155	47.324	61.130	51.340	0.00	0.00
ATOM	2402	HD11	LEU	X	155	47.766	61.793	52.084	0.00	0.00
ATOM	2403	HD12	LEU	X	155	47.019	61.770	50.511	0.00	0.00
ATOM	2404	HD13	LEU	X	155	48.168	60.468	51.148	0.00	0.00
ATOM	2405	CD2	LEU	X	155	45.209	61.604	52.712	0.00	0.00
ATOM	2406	HD21	LEU	X	155	44.864	62.275	51.926	0.00	0.00
ATOM	2407	HD22	LEU	X	155	44.328	61.182	53.195	0.00	0.00
ATOM	2408	HD23	LEU	X	155	45.717	62.235	53.441	0.00	0.00
ATOM	2409	C	LEU	X	155	43.452	58.720	52.334	0.00	0.00
ATOM	2410	O	LEU	X	155	42.502	59.347	51.785	0.00	0.00
ATOM	2411	N	ALA	X	156	43.429	58.420	53.636	0.00	0.00
ATOM	2412	H	ALA	X	156	44.193	57.872	54.006	0.00	0.00
ATOM	2413	CA	ALA	X	156	42.328	58.757	54.525	0.00	0.00
ATOM	2414	HA	ALA	X	156	41.608	59.307	53.919	0.00	0.00
ATOM	2415	CB	ALA	X	156	41.799	57.516	55.118	0.00	0.00
ATOM	2416	HB1	ALA	X	156	40.936	57.765	55.735	0.00	0.00
ATOM	2417	HB2	ALA	X	156	42.519	57.064	55.800	0.00	0.00
ATOM	2418	HB3	ALA	X	156	41.631	56.687	54.432	0.00	0.00
ATOM	2419	C	ALA	X	156	42.851	59.737	55.671	0.00	0.00
ATOM	2420	O	ALA	X	156	44.033	59.701	56.050	0.00	0.00
ATOM	2421	N	LEU	X	157	41.940	60.524	56.210	0.00	0.00
ATOM	2422	H	LEU	X	157	41.040	60.569	55.754	0.00	0.00
ATOM	2423	CA	LEU	X	157	42.032	61.331	57.459	0.00	0.00
ATOM	2424	HA	LEU	X	157	42.749	60.847	58.123	0.00	0.00
ATOM	2425	CB	LEU	X	157	42.387	62.795	57.066	0.00	0.00
ATOM	2426	HB2	LEU	X	157	41.543	63.171	56.487	0.00	0.00
ATOM	2427	HB3	LEU	X	157	42.403	63.454	57.934	0.00	0.00
ATOM	2428	CG	LEU	X	157	43.641	63.001	56.236	0.00	0.00
ATOM	2429	HG	LEU	X	157	43.754	62.210	55.495	0.00	0.00
ATOM	2430	CD1	LEU	X	157	43.702	64.380	55.515	0.00	0.00
ATOM	2431	HD11	LEU	X	157	43.501	65.141	56.269	0.00	0.00
ATOM	2432	HD12	LEU	X	157	42.821	64.587	54.906	0.00	0.00
ATOM	2433	HD13	LEU	X	157	44.692	64.503	55.076	0.00	0.00
ATOM	2434	CD2	LEU	X	157	44.875	63.042	57.159	0.00	0.00
ATOM	2435	HD21	LEU	X	157	44.907	63.858	57.880	0.00	0.00
ATOM	2436	HD22	LEU	X	157	44.943	62.125	57.745	0.00	0.00
ATOM	2437	HD23	LEU	X	157	45.770	63.072	56.537	0.00	0.00
ATOM	2438	C	LEU	X	157	40.690	61.264	58.187	0.00	0.00
ATOM	2439	O	LEU	X	157	39.673	61.213	57.493	0.00	0.00
ATOM	2440	N	PRO	X	158	40.609	61.370	59.506	0.00	0.00
ATOM	2441	CD	PRO	X	158	41.766	61.596	60.429	0.00	0.00
ATOM	2442	HD2	PRO	X	158	42.302	62.532	60.277	0.00	0.00
ATOM	2443	HD3	PRO	X	158	42.458	60.772	60.254	0.00	0.00
ATOM	2444	CG	PRO	X	158	41.169	61.607	61.850	0.00	0.00
ATOM	2445	HG2	PRO	X	158	40.773	62.591	62.102	0.00	0.00
ATOM	2446	HG3	PRO	X	158	41.840	61.252	62.631	0.00	0.00
ATOM	2447	CB	PRO	X	158	40.026	60.602	61.665	0.00	0.00
ATOM	2448	HB2	PRO	X	158	39.336	60.615	62.509	0.00	0.00
ATOM	2449	HB3	PRO	X	158	40.299	59.550	61.582	0.00	0.00
ATOM	2450	CA	PRO	X	158	39.466	61.015	60.356	0.00	0.00
ATOM	2451	HA	PRO	X	158	39.021	60.119	59.923	0.00	0.00
ATOM	2452	C	PRO	X	158	38.428	62.099	60.460	0.00	0.00
ATOM	2453	O	PRO	X	158	38.728	63.308	60.337	0.00	0.00
ATOM	2454	N	GLY	X	159	37.167	61.692	60.793	0.00	0.00
ATOM	2455	H	GLY	X	159	37.078	60.686	60.825	0.00	0.00
ATOM	2456	CA	GLY	X	159	36.060	62.506	61.288	0.00	0.00
ATOM	2457	HA2	GLY	X	159	35.291	61.851	61.697	0.00	0.00

ATOM	2458	HA3	GLY	X	159	36.508	63.157	62.038	0.00	0.00
ATOM	2459	C	GLY	X	159	35.343	63.303	60.230	0.00	0.00
ATOM	2460	O	GLY	X	159	34.381	64.019	60.568	0.00	0.00
ATOM	2461	N	SER	X	160	35.791	63.335	58.955	0.00	0.00
ATOM	2462	H	SER	X	160	36.549	62.734	58.664	0.00	0.00
ATOM	2463	CA	SER	X	160	35.038	64.026	57.967	0.00	0.00
ATOM	2464	HA	SER	X	160	34.003	64.210	58.254	0.00	0.00
ATOM	2465	CB	SER	X	160	35.588	65.515	57.936	0.00	0.00
ATOM	2466	HB2	SER	X	160	34.919	66.047	57.259	0.00	0.00
ATOM	2467	HB3	SER	X	160	35.596	65.999	58.913	0.00	0.00
ATOM	2468	OG	SER	X	160	36.831	65.694	57.258	0.00	0.00
ATOM	2469	HG	SER	X	160	37.308	66.386	57.722	0.00	0.00
ATOM	2470	C	SER	X	160	35.091	63.288	56.565	0.00	0.00
ATOM	2471	O	SER	X	160	35.311	62.068	56.527	0.00	0.00
ATOM	2472	N	ARG	X	161	35.045	64.003	55.444	0.00	0.00
ATOM	2473	H	ARG	X	161	35.061	65.009	55.536	0.00	0.00
ATOM	2474	CA	ARG	X	161	35.285	63.449	54.089	0.00	0.00
ATOM	2475	HA	ARG	X	161	35.734	62.471	54.259	0.00	0.00
ATOM	2476	CB	ARG	X	161	33.903	63.166	53.383	0.00	0.00
ATOM	2477	HB2	ARG	X	161	33.324	64.053	53.130	0.00	0.00
ATOM	2478	HB3	ARG	X	161	34.231	62.694	52.457	0.00	0.00
ATOM	2479	CG	ARG	X	161	32.838	62.250	54.035	0.00	0.00
ATOM	2480	HG2	ARG	X	161	32.717	62.512	55.086	0.00	0.00
ATOM	2481	HG3	ARG	X	161	31.853	62.471	53.623	0.00	0.00
ATOM	2482	CD	ARG	X	161	33.135	60.772	53.858	0.00	0.00
ATOM	2483	HD2	ARG	X	161	32.204	60.205	53.880	0.00	0.00
ATOM	2484	HD3	ARG	X	161	33.605	60.595	52.891	0.00	0.00
ATOM	2485	NE	ARG	X	161	33.915	60.160	54.930	0.00	0.00
ATOM	2486	HE	ARG	X	161	34.502	60.740	55.512	0.00	0.00
ATOM	2487	CZ	ARG	X	161	34.045	58.856	55.149	0.00	0.00
ATOM	2488	NH1	ARG	X	161	33.437	57.875	54.515	0.00	0.00
ATOM	2489	HH11	ARG	X	161	32.676	58.157	53.914	0.00	0.00
ATOM	2490	HH12	ARG	X	161	33.843	56.950	54.530	0.00	0.00
ATOM	2491	NH2	ARG	X	161	34.916	58.490	56.097	0.00	0.00
ATOM	2492	HH21	ARG	X	161	35.674	59.104	56.358	0.00	0.00
ATOM	2493	HH22	ARG	X	161	34.964	57.490	56.231	0.00	0.00
ATOM	2494	C	ARG	X	161	36.263	64.163	53.138	0.00	0.00
ATOM	2495	O	ARG	X	161	36.349	63.792	51.932	0.00	0.00
ATOM	2496	N	GLU	X	162	37.100	65.142	53.662	0.00	0.00
ATOM	2497	H	GLU	X	162	37.018	65.349	54.647	0.00	0.00
ATOM	2498	CA	GLU	X	162	38.217	65.788	52.930	0.00	0.00
ATOM	2499	HA	GLU	X	162	37.675	66.295	52.132	0.00	0.00
ATOM	2500	CB	GLU	X	162	38.820	66.849	53.791	0.00	0.00
ATOM	2501	HB2	GLU	X	162	38.938	66.340	54.748	0.00	0.00
ATOM	2502	HB3	GLU	X	162	39.778	67.198	53.405	0.00	0.00
ATOM	2503	CG	GLU	X	162	37.918	68.103	53.991	0.00	0.00
ATOM	2504	HG2	GLU	X	162	36.901	67.830	54.273	0.00	0.00
ATOM	2505	HG3	GLU	X	162	38.373	68.703	54.779	0.00	0.00
ATOM	2506	CD	GLU	X	162	37.958	68.942	52.727	0.00	0.00
ATOM	2507	OE1	GLU	X	162	38.943	69.657	52.440	0.00	0.00
ATOM	2508	OE2	GLU	X	162	36.957	68.817	52.014	0.00	0.00
ATOM	2509	C	GLU	X	162	39.259	64.803	52.276	0.00	0.00
ATOM	2510	O	GLU	X	162	39.900	65.126	51.274	0.00	0.00
ATOM	2511	N	ALA	X	163	39.609	63.745	53.017	0.00	0.00
ATOM	2512	H	ALA	X	163	39.188	63.607	53.924	0.00	0.00
ATOM	2513	CA	ALA	X	163	40.143	62.506	52.374	0.00	0.00
ATOM	2514	HA	ALA	X	163	39.910	62.492	51.309	0.00	0.00
ATOM	2515	CB	ALA	X	163	41.680	62.580	52.414	0.00	0.00
ATOM	2516	HB1	ALA	X	163	41.975	62.282	53.420	0.00	0.00
ATOM	2517	HB2	ALA	X	163	42.013	63.575	52.121	0.00	0.00
ATOM	2518	HB3	ALA	X	163	42.096	61.875	51.693	0.00	0.00
ATOM	2519	C	ALA	X	163	39.598	61.293	53.104	0.00	0.00
ATOM	2520	O	ALA	X	163	39.942	61.111	54.275	0.00	0.00
ATOM	2521	N	PRO	X	164	38.642	60.505	52.522	0.00	0.00
ATOM	2522	CD	PRO	X	164	38.142	60.686	51.185	0.00	0.00
ATOM	2523	HD2	PRO	X	164	38.819	60.611	50.334	0.00	0.00
ATOM	2524	HD3	PRO	X	164	37.631	61.635	51.345	0.00	0.00

ATOM	2525	CG	PRO	X	164	37.109	59.609	51.008	0.00	0.00
ATOM	2526	HG2	PRO	X	164	37.561	58.678	50.665	0.00	0.00
ATOM	2527	HG3	PRO	X	164	36.246	59.951	50.438	0.00	0.00
ATOM	2528	CB	PRO	X	164	36.628	59.377	52.441	0.00	0.00
ATOM	2529	HB2	PRO	X	164	36.055	58.454	52.530	0.00	0.00
ATOM	2530	HB3	PRO	X	164	36.038	60.212	52.819	0.00	0.00
ATOM	2531	CA	PRO	X	164	37.981	59.380	53.235	0.00	0.00
ATOM	2532	HA	PRO	X	164	37.836	59.574	54.298	0.00	0.00
ATOM	2533	C	PRO	X	164	38.808	58.045	53.086	0.00	0.00
ATOM	2534	O	PRO	X	164	38.392	57.075	53.655	0.00	0.00
ATOM	2535	N	GLY	X	165	39.894	57.998	52.287	0.00	0.00
ATOM	2536	H	GLY	X	165	40.246	58.820	51.819	0.00	0.00
ATOM	2537	CA	GLY	X	165	40.545	56.718	51.950	0.00	0.00
ATOM	2538	HA2	GLY	X	165	41.628	56.807	52.029	0.00	0.00
ATOM	2539	HA3	GLY	X	165	40.235	55.940	52.648	0.00	0.00
ATOM	2540	C	GLY	X	165	40.025	56.226	50.565	0.00	0.00
ATOM	2541	O	GLY	X	165	40.527	56.716	49.576	0.00	0.00
ATOM	2542	N	ASN	X	166	39.185	55.195	50.497	0.00	0.00
ATOM	2543	H	ASN	X	166	38.880	54.850	51.396	0.00	0.00
ATOM	2544	CA	ASN	X	166	38.893	54.262	49.333	0.00	0.00
ATOM	2545	HA	ASN	X	166	39.822	53.708	49.201	0.00	0.00
ATOM	2546	CB	ASN	X	166	37.871	53.192	49.831	0.00	0.00
ATOM	2547	HB2	ASN	X	166	36.946	53.733	50.033	0.00	0.00
ATOM	2548	HB3	ASN	X	166	37.739	52.377	49.120	0.00	0.00
ATOM	2549	CG	ASN	X	166	38.291	52.565	51.149	0.00	0.00
ATOM	2550	OD1	ASN	X	166	39.102	51.691	51.116	0.00	0.00
ATOM	2551	ND2	ASN	X	166	37.862	53.046	52.266	0.00	0.00
ATOM	2552	HD21	ASN	X	166	38.062	52.551	53.124	0.00	0.00
ATOM	2553	HD22	ASN	X	166	37.095	53.694	52.367	0.00	0.00
ATOM	2554	C	ASN	X	166	38.418	54.873	47.972	0.00	0.00
ATOM	2555	O	ASN	X	166	37.729	54.146	47.247	0.00	0.00
ATOM	2556	N	VAL	X	167	38.844	56.027	47.532	0.00	0.00
ATOM	2557	H	VAL	X	167	39.490	56.560	48.097	0.00	0.00
ATOM	2558	CA	VAL	X	167	38.233	56.686	46.326	0.00	0.00
ATOM	2559	HA	VAL	X	167	37.166	56.546	46.500	0.00	0.00
ATOM	2560	CB	VAL	X	167	38.527	58.212	46.143	0.00	0.00
ATOM	2561	HB	VAL	X	167	37.833	58.517	45.360	0.00	0.00
ATOM	2562	CG1	VAL	X	167	38.061	58.995	47.440	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.386	58.551	48.381	0.00	0.00
ATOM	2564	HG12	VAL	X	167	38.424	60.020	47.356	0.00	0.00
ATOM	2565	HG13	VAL	X	167	36.973	58.945	47.473	0.00	0.00
ATOM	2566	CG2	VAL	X	167	39.926	58.582	45.755	0.00	0.00
ATOM	2567	HG21	VAL	X	167	40.116	59.647	45.625	0.00	0.00
ATOM	2568	HG22	VAL	X	167	40.126	58.099	44.798	0.00	0.00
ATOM	2569	HG23	VAL	X	167	40.513	58.259	46.615	0.00	0.00
ATOM	2570	C	VAL	X	167	38.671	55.887	45.039	0.00	0.00
ATOM	2571	O	VAL	X	167	38.130	56.067	44.001	0.00	0.00
ATOM	2572	N	GLY	X	168	39.728	55.035	45.132	0.00	0.00
ATOM	2573	H	GLY	X	168	40.129	54.973	46.057	0.00	0.00
ATOM	2574	CA	GLY	X	168	40.153	54.178	43.921	0.00	0.00
ATOM	2575	HA2	GLY	X	168	39.939	54.669	42.972	0.00	0.00
ATOM	2576	HA3	GLY	X	168	41.193	53.884	44.058	0.00	0.00
ATOM	2577	C	GLY	X	168	39.293	52.919	43.770	0.00	0.00
ATOM	2578	O	GLY	X	168	39.362	52.327	42.719	0.00	0.00
ATOM	2579	N	LEU	X	169	38.508	52.480	44.762	0.00	0.00
ATOM	2580	H	LEU	X	169	38.538	52.970	45.644	0.00	0.00
ATOM	2581	CA	LEU	X	169	37.398	51.565	44.579	0.00	0.00
ATOM	2582	HA	LEU	X	169	37.692	50.758	43.908	0.00	0.00
ATOM	2583	CB	LEU	X	169	37.190	50.801	45.917	0.00	0.00
ATOM	2584	HB2	LEU	X	169	36.769	51.506	46.633	0.00	0.00
ATOM	2585	HB3	LEU	X	169	36.386	50.096	45.705	0.00	0.00
ATOM	2586	CG	LEU	X	169	38.334	49.991	46.569	0.00	0.00
ATOM	2587	HG	LEU	X	169	39.069	50.685	46.976	0.00	0.00
ATOM	2588	CD1	LEU	X	169	37.896	49.064	47.750	0.00	0.00
ATOM	2589	HD11	LEU	X	169	38.694	48.424	48.128	0.00	0.00
ATOM	2590	HD12	LEU	X	169	37.046	48.464	47.425	0.00	0.00
ATOM	2591	HD13	LEU	X	169	37.588	49.795	48.498	0.00	0.00

ATOM	2592	CD2	LEU	X	169	39.190	49.121	45.626	0.00	0.00
ATOM	2593	HD21	LEU	X	169	40.190	48.973	46.034	0.00	0.00
ATOM	2594	HD22	LEU	X	169	38.807	48.113	45.466	0.00	0.00
ATOM	2595	HD23	LEU	X	169	39.272	49.525	44.616	0.00	0.00
ATOM	2596	C	LEU	X	169	36.130	52.331	44.157	0.00	0.00
ATOM	2597	O	LEU	X	169	35.413	51.650	43.366	0.00	0.00
ATOM	2598	N	LEU	X	170	35.921	53.581	44.505	0.00	0.00
ATOM	2599	H	LEU	X	170	36.518	53.997	45.205	0.00	0.00
ATOM	2600	CA	LEU	X	170	34.728	54.365	44.072	0.00	0.00
ATOM	2601	HA	LEU	X	170	33.822	53.811	44.318	0.00	0.00
ATOM	2602	CB	LEU	X	170	34.675	55.673	44.777	0.00	0.00
ATOM	2603	HB2	LEU	X	170	35.621	56.181	44.587	0.00	0.00
ATOM	2604	HB3	LEU	X	170	33.794	56.206	44.419	0.00	0.00
ATOM	2605	CG	LEU	X	170	34.594	55.645	46.280	0.00	0.00
ATOM	2606	HG	LEU	X	170	35.511	55.224	46.695	0.00	0.00
ATOM	2607	CD1	LEU	X	170	34.445	57.040	46.829	0.00	0.00
ATOM	2608	HD11	LEU	X	170	33.583	57.483	46.331	0.00	0.00
ATOM	2609	HD12	LEU	X	170	35.340	57.659	46.757	0.00	0.00
ATOM	2610	HD13	LEU	X	170	34.189	57.017	47.889	0.00	0.00
ATOM	2611	CD2	LEU	X	170	33.441	54.757	46.832	0.00	0.00
ATOM	2612	HD21	LEU	X	170	32.470	55.113	46.488	0.00	0.00
ATOM	2613	HD22	LEU	X	170	33.462	53.709	46.535	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.499	54.928	47.907	0.00	0.00
ATOM	2615	C	LEU	X	170	34.649	54.555	42.557	0.00	0.00
ATOM	2616	O	LEU	X	170	33.537	54.411	42.062	0.00	0.00
ATOM	2617	N	ASP	X	171	35.770	54.639	41.835	0.00	0.00
ATOM	2618	H	ASP	X	171	36.596	54.705	42.412	0.00	0.00
ATOM	2619	CA	ASP	X	171	35.942	54.875	40.375	0.00	0.00
ATOM	2620	HA	ASP	X	171	35.359	55.729	40.034	0.00	0.00
ATOM	2621	CB	ASP	X	171	37.472	55.092	40.109	0.00	0.00
ATOM	2622	HB2	ASP	X	171	37.882	54.135	40.430	0.00	0.00
ATOM	2623	HB3	ASP	X	171	37.639	54.992	39.036	0.00	0.00
ATOM	2624	CG	ASP	X	171	38.251	56.259	40.759	0.00	0.00
ATOM	2625	OD1	ASP	X	171	37.544	57.178	41.226	0.00	0.00
ATOM	2626	OD2	ASP	X	171	39.480	56.240	40.869	0.00	0.00
ATOM	2627	C	ASP	X	171	35.449	53.594	39.553	0.00	0.00
ATOM	2628	O	ASP	X	171	34.849	53.782	38.555	0.00	0.00
ATOM	2629	N	GLN	X	172	35.587	52.331	40.091	0.00	0.00
ATOM	2630	H	GLN	X	172	35.986	52.286	41.018	0.00	0.00
ATOM	2631	CA	GLN	X	172	35.214	51.089	39.410	0.00	0.00
ATOM	2632	HA	GLN	X	172	35.439	51.181	38.347	0.00	0.00
ATOM	2633	CB	GLN	X	172	36.015	49.868	39.980	0.00	0.00
ATOM	2634	HB2	GLN	X	172	35.557	49.574	40.924	0.00	0.00
ATOM	2635	HB3	GLN	X	172	36.033	49.036	39.275	0.00	0.00
ATOM	2636	CG	GLN	X	172	37.473	50.147	40.321	0.00	0.00
ATOM	2637	HG2	GLN	X	172	38.051	50.199	39.398	0.00	0.00
ATOM	2638	HG3	GLN	X	172	37.654	51.131	40.755	0.00	0.00
ATOM	2639	CD	GLN	X	172	38.215	49.011	41.013	0.00	0.00
ATOM	2640	OE1	GLN	X	172	37.744	47.919	41.231	0.00	0.00
ATOM	2641	NE2	GLN	X	172	39.239	49.372	41.718	0.00	0.00
ATOM	2642	HE21	GLN	X	172	39.742	48.652	42.218	0.00	0.00
ATOM	2643	HE22	GLN	X	172	39.586	50.320	41.696	0.00	0.00
ATOM	2644	C	GLN	X	172	33.753	50.785	39.537	0.00	0.00
ATOM	2645	O	GLN	X	172	33.216	50.457	38.475	0.00	0.00
ATOM	2646	N	ARG	X	173	33.079	50.826	40.643	0.00	0.00
ATOM	2647	H	ARG	X	173	33.611	51.204	41.414	0.00	0.00
ATOM	2648	CA	ARG	X	173	31.662	50.789	40.871	0.00	0.00
ATOM	2649	HA	ARG	X	173	31.196	49.861	40.538	0.00	0.00
ATOM	2650	CB	ARG	X	173	31.348	51.003	42.383	0.00	0.00
ATOM	2651	HB2	ARG	X	173	31.913	50.220	42.889	0.00	0.00
ATOM	2652	HB3	ARG	X	173	31.754	51.939	42.767	0.00	0.00
ATOM	2653	CG	ARG	X	173	29.852	50.760	42.786	0.00	0.00
ATOM	2654	HG2	ARG	X	173	29.142	51.274	42.137	0.00	0.00
ATOM	2655	HG3	ARG	X	173	29.507	49.729	42.872	0.00	0.00
ATOM	2656	CD	ARG	X	173	29.563	51.227	44.204	0.00	0.00
ATOM	2657	HD2	ARG	X	173	30.027	52.213	44.245	0.00	0.00
ATOM	2658	HD3	ARG	X	173	28.511	51.491	44.305	0.00	0.00

ATOM	2659	NE	ARG	X	173	30.136	50.346	45.241	0.00	0.00
ATOM	2660	HE	ARG	X	173	30.273	49.382	44.972	0.00	0.00
ATOM	2661	CZ	ARG	X	173	30.372	50.602	46.516	0.00	0.00
ATOM	2662	NH1	ARG	X	173	30.194	51.866	46.893	0.00	0.00
ATOM	2663	HH11	ARG	X	173	29.977	52.585	46.217	0.00	0.00
ATOM	2664	HH12	ARG	X	173	30.578	52.222	47.756	0.00	0.00
ATOM	2665	NH2	ARG	X	173	30.796	49.759	47.381	0.00	0.00
ATOM	2666	HH21	ARG	X	173	31.028	48.809	47.128	0.00	0.00
ATOM	2667	HH22	ARG	X	173	30.959	50.040	48.337	0.00	0.00
ATOM	2668	C	ARG	X	173	30.948	51.864	40.001	0.00	0.00
ATOM	2669	O	ARG	X	173	29.931	51.531	39.435	0.00	0.00
ATOM	2670	N	LEU	X	174	31.524	53.066	39.895	0.00	0.00
ATOM	2671	H	LEU	X	174	32.319	53.250	40.489	0.00	0.00
ATOM	2672	CA	LEU	X	174	31.044	54.044	38.930	0.00	0.00
ATOM	2673	HA	LEU	X	174	29.992	54.198	39.171	0.00	0.00
ATOM	2674	CB	LEU	X	174	31.722	55.412	39.126	0.00	0.00
ATOM	2675	HB2	LEU	X	174	31.581	55.722	40.161	0.00	0.00
ATOM	2676	HB3	LEU	X	174	32.766	55.384	38.816	0.00	0.00
ATOM	2677	CG	LEU	X	174	30.963	56.572	38.370	0.00	0.00
ATOM	2678	HG	LEU	X	174	30.849	56.238	37.339	0.00	0.00
ATOM	2679	CD1	LEU	X	174	29.565	56.834	38.885	0.00	0.00
ATOM	2680	HD11	LEU	X	174	29.606	57.185	39.916	0.00	0.00
ATOM	2681	HD12	LEU	X	174	28.875	55.992	38.941	0.00	0.00
ATOM	2682	HD13	LEU	X	174	29.124	57.600	38.248	0.00	0.00
ATOM	2683	CD2	LEU	X	174	31.707	57.991	38.434	0.00	0.00
ATOM	2684	HD21	LEU	X	174	32.775	57.842	38.282	0.00	0.00
ATOM	2685	HD22	LEU	X	174	31.361	58.688	37.671	0.00	0.00
ATOM	2686	HD23	LEU	X	174	31.534	58.463	39.402	0.00	0.00
ATOM	2687	C	LEU	X	174	31.175	53.606	37.474	0.00	0.00
ATOM	2688	O	LEU	X	174	30.280	53.885	36.690	0.00	0.00
ATOM	2689	N	ALA	X	175	32.260	52.860	37.116	0.00	0.00
ATOM	2690	H	ALA	X	175	32.958	52.664	37.819	0.00	0.00
ATOM	2691	CA	ALA	X	175	32.385	52.290	35.830	0.00	0.00
ATOM	2692	HA	ALA	X	175	32.062	52.974	35.044	0.00	0.00
ATOM	2693	CB	ALA	X	175	33.849	51.814	35.534	0.00	0.00
ATOM	2694	HB1	ALA	X	175	34.481	52.684	35.710	0.00	0.00
ATOM	2695	HB2	ALA	X	175	33.827	51.503	34.490	0.00	0.00
ATOM	2696	HB3	ALA	X	175	34.187	51.109	36.294	0.00	0.00
ATOM	2697	C	ALA	X	175	31.377	51.080	35.558	0.00	0.00
ATOM	2698	O	ALA	X	175	30.780	51.069	34.503	0.00	0.00
ATOM	2699	N	LEU	X	176	31.164	50.205	36.535	0.00	0.00
ATOM	2700	H	LEU	X	176	31.798	50.207	37.321	0.00	0.00
ATOM	2701	CA	LEU	X	176	30.097	49.286	36.520	0.00	0.00
ATOM	2702	HA	LEU	X	176	30.293	48.641	35.664	0.00	0.00
ATOM	2703	CB	LEU	X	176	30.167	48.319	37.681	0.00	0.00
ATOM	2704	HB2	LEU	X	176	30.040	48.890	38.601	0.00	0.00
ATOM	2705	HB3	LEU	X	176	29.454	47.495	37.707	0.00	0.00
ATOM	2706	CG	LEU	X	176	31.491	47.716	38.018	0.00	0.00
ATOM	2707	HG	LEU	X	176	32.249	48.411	38.377	0.00	0.00
ATOM	2708	CD1	LEU	X	176	31.406	46.767	39.242	0.00	0.00
ATOM	2709	HD11	LEU	X	176	32.395	46.479	39.600	0.00	0.00
ATOM	2710	HD12	LEU	X	176	30.707	45.932	39.276	0.00	0.00
ATOM	2711	HD13	LEU	X	176	30.988	47.326	40.078	0.00	0.00
ATOM	2712	CD2	LEU	X	176	31.934	46.842	36.874	0.00	0.00
ATOM	2713	HD21	LEU	X	176	32.740	46.152	37.123	0.00	0.00
ATOM	2714	HD22	LEU	X	176	31.071	46.356	36.418	0.00	0.00
ATOM	2715	HD23	LEU	X	176	32.119	47.570	36.084	0.00	0.00
ATOM	2716	C	LEU	X	176	28.662	49.826	36.448	0.00	0.00
ATOM	2717	O	LEU	X	176	27.728	49.217	35.932	0.00	0.00
ATOM	2718	N	GLN	X	177	28.387	51.023	36.990	0.00	0.00
ATOM	2719	H	GLN	X	177	29.021	51.546	37.577	0.00	0.00
ATOM	2720	CA	GLN	X	177	27.093	51.740	36.673	0.00	0.00
ATOM	2721	HA	GLN	X	177	26.217	51.107	36.811	0.00	0.00
ATOM	2722	CB	GLN	X	177	26.987	52.942	37.629	0.00	0.00
ATOM	2723	HB2	GLN	X	177	28.013	53.286	37.756	0.00	0.00
ATOM	2724	HB3	GLN	X	177	26.341	53.668	37.135	0.00	0.00
ATOM	2725	CG	GLN	X	177	26.463	52.553	39.064	0.00	0.00

ATOM	2726	HG2	GLN	X	177	25.521	52.008	39.014	0.00	0.00
ATOM	2727	HG3	GLN	X	177	27.152	51.823	39.489	0.00	0.00
ATOM	2728	CD	GLN	X	177	26.450	53.732	40.003	0.00	0.00
ATOM	2729	OE1	GLN	X	177	27.448	54.388	40.140	0.00	0.00
ATOM	2730	NE2	GLN	X	177	25.421	54.103	40.756	0.00	0.00
ATOM	2731	HE21	GLN	X	177	25.509	54.986	41.238	0.00	0.00
ATOM	2732	HE22	GLN	X	177	24.500	53.702	40.649	0.00	0.00
ATOM	2733	C	GLN	X	177	27.011	52.051	35.139	0.00	0.00
ATOM	2734	O	GLN	X	177	25.961	51.773	34.648	0.00	0.00
ATOM	2735	N	TRP	X	178	28.085	52.505	34.382	0.00	0.00
ATOM	2736	H	TRP	X	178	28.923	52.726	34.901	0.00	0.00
ATOM	2737	CA	TRP	X	178	28.034	52.877	32.930	0.00	0.00
ATOM	2738	HA	TRP	X	178	27.182	53.489	32.635	0.00	0.00
ATOM	2739	CB	TRP	X	178	29.330	53.614	32.619	0.00	0.00
ATOM	2740	HB2	TRP	X	178	29.487	54.284	33.464	0.00	0.00
ATOM	2741	HB3	TRP	X	178	30.121	52.865	32.630	0.00	0.00
ATOM	2742	CG	TRP	X	178	29.589	54.295	31.335	0.00	0.00
ATOM	2743	CD1	TRP	X	178	29.339	55.606	31.082	0.00	0.00
ATOM	2744	HD1	TRP	X	178	28.940	56.341	31.765	0.00	0.00
ATOM	2745	NE1	TRP	X	178	29.802	55.876	29.777	0.00	0.00
ATOM	2746	HE1	TRP	X	178	29.865	56.828	29.447	0.00	0.00
ATOM	2747	CE2	TRP	X	178	30.052	54.794	29.035	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	30.230	54.658	27.701	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	30.026	55.544	27.117	0.00	0.00
ATOM	2750	CH2	TRP	X	178	30.471	53.341	27.190	0.00	0.00
ATOM	2751	HH2	TRP	X	178	30.389	53.218	26.120	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	30.359	52.220	28.038	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	30.502	51.211	27.680	0.00	0.00
ATOM	2754	CE3	TRP	X	178	30.006	52.455	29.374	0.00	0.00
ATOM	2755	HE3	TRP	X	178	29.812	51.626	30.038	0.00	0.00
ATOM	2756	CD2	TRP	X	178	29.885	53.740	29.964	0.00	0.00
ATOM	2757	C	TRP	X	178	28.045	51.604	32.069	0.00	0.00
ATOM	2758	O	TRP	X	178	27.469	51.593	30.952	0.00	0.00
ATOM	2759	N	VAL	X	179	28.703	50.556	32.585	0.00	0.00
ATOM	2760	H	VAL	X	179	29.115	50.641	33.504	0.00	0.00
ATOM	2761	CA	VAL	X	179	28.521	49.223	31.938	0.00	0.00
ATOM	2762	HA	VAL	X	179	28.781	49.465	30.908	0.00	0.00
ATOM	2763	CB	VAL	X	179	29.480	48.238	32.525	0.00	0.00
ATOM	2764	HB	VAL	X	179	29.335	48.301	33.604	0.00	0.00
ATOM	2765	CG1	VAL	X	179	29.262	46.784	32.099	0.00	0.00
ATOM	2766	HG11	VAL	X	179	28.219	46.522	32.277	0.00	0.00
ATOM	2767	HG12	VAL	X	179	29.486	46.703	31.036	0.00	0.00
ATOM	2768	HG13	VAL	X	179	29.936	46.055	32.549	0.00	0.00
ATOM	2769	CG2	VAL	X	179	30.931	48.499	32.229	0.00	0.00
ATOM	2770	HG21	VAL	X	179	31.233	48.520	31.182	0.00	0.00
ATOM	2771	HG22	VAL	X	179	31.460	47.798	32.874	0.00	0.00
ATOM	2772	HG23	VAL	X	179	31.196	49.508	32.546	0.00	0.00
ATOM	2773	C	VAL	X	179	27.014	48.893	31.987	0.00	0.00
ATOM	2774	O	VAL	X	179	26.492	48.501	30.878	0.00	0.00
ATOM	2775	N	GLN	X	180	26.335	48.911	33.138	0.00	0.00
ATOM	2776	H	GLN	X	180	26.829	49.246	33.953	0.00	0.00
ATOM	2777	CA	GLN	X	180	24.876	48.616	33.286	0.00	0.00
ATOM	2778	HA	GLN	X	180	24.634	47.638	32.870	0.00	0.00
ATOM	2779	CB	GLN	X	180	24.473	48.632	34.755	0.00	0.00
ATOM	2780	HB2	GLN	X	180	24.997	49.488	35.180	0.00	0.00
ATOM	2781	HB3	GLN	X	180	23.385	48.696	34.734	0.00	0.00
ATOM	2782	CG	GLN	X	180	24.835	47.313	35.550	0.00	0.00
ATOM	2783	HG2	GLN	X	180	25.863	46.960	35.468	0.00	0.00
ATOM	2784	HG3	GLN	X	180	24.597	47.609	36.572	0.00	0.00
ATOM	2785	CD	GLN	X	180	23.967	46.104	35.137	0.00	0.00
ATOM	2786	OE1	GLN	X	180	22.857	46.273	34.525	0.00	0.00
ATOM	2787	NE2	GLN	X	180	24.276	44.864	35.388	0.00	0.00
ATOM	2788	HE21	GLN	X	180	23.589	44.134	35.270	0.00	0.00
ATOM	2789	HE22	GLN	X	180	25.105	44.777	35.957	0.00	0.00
ATOM	2790	C	GLN	X	180	23.880	49.594	32.484	0.00	0.00
ATOM	2791	O	GLN	X	180	22.706	49.277	32.264	0.00	0.00
ATOM	2792	N	GLU	X	181	24.376	50.779	32.095	0.00	0.00

ATOM	2793	H	GLU	X	181	25.256	51.065	32.500	0.00	0.00
ATOM	2794	CA	GLU	X	181	23.605	51.670	31.234	0.00	0.00
ATOM	2795	HA	GLU	X	181	22.557	51.591	31.522	0.00	0.00
ATOM	2796	CB	GLU	X	181	24.038	53.153	31.421	0.00	0.00
ATOM	2797	HB2	GLU	X	181	25.127	53.181	31.404	0.00	0.00
ATOM	2798	HB3	GLU	X	181	23.556	53.704	30.614	0.00	0.00
ATOM	2799	CG	GLU	X	181	23.622	53.646	32.810	0.00	0.00
ATOM	2800	HG2	GLU	X	181	23.820	52.924	33.603	0.00	0.00
ATOM	2801	HG3	GLU	X	181	24.206	54.530	33.068	0.00	0.00
ATOM	2802	CD	GLU	X	181	22.137	53.986	32.809	0.00	0.00
ATOM	2803	OE1	GLU	X	181	21.769	54.969	32.189	0.00	0.00
ATOM	2804	OE2	GLU	X	181	21.373	53.101	33.307	0.00	0.00
ATOM	2805	C	GLU	X	181	23.853	51.262	29.759	0.00	0.00
ATOM	2806	O	GLU	X	181	22.893	51.168	28.977	0.00	0.00
ATOM	2807	N	ASN	X	182	25.110	51.085	29.334	0.00	0.00
ATOM	2808	H	ASN	X	182	25.845	51.141	30.025	0.00	0.00
ATOM	2809	CA	ASN	X	182	25.476	51.266	27.901	0.00	0.00
ATOM	2810	HA	ASN	X	182	24.579	51.606	27.385	0.00	0.00
ATOM	2811	CB	ASN	X	182	26.620	52.347	27.897	0.00	0.00
ATOM	2812	HB2	ASN	X	182	27.383	52.051	28.616	0.00	0.00
ATOM	2813	HB3	ASN	X	182	26.982	52.580	26.895	0.00	0.00
ATOM	2814	CG	ASN	X	182	26.173	53.707	28.327	0.00	0.00
ATOM	2815	OD1	ASN	X	182	25.165	54.169	27.881	0.00	0.00
ATOM	2816	ND2	ASN	X	182	26.817	54.343	29.259	0.00	0.00
ATOM	2817	HD21	ASN	X	182	26.512	55.271	29.517	0.00	0.00
ATOM	2818	HD22	ASN	X	182	27.654	53.899	29.608	0.00	0.00
ATOM	2819	C	ASN	X	182	25.882	49.981	27.124	0.00	0.00
ATOM	2820	O	ASN	X	182	26.079	50.042	25.909	0.00	0.00
ATOM	2821	N	VAL	X	183	26.117	48.909	27.809	0.00	0.00
ATOM	2822	H	VAL	X	183	25.625	48.940	28.690	0.00	0.00
ATOM	2823	CA	VAL	X	183	26.987	47.815	27.332	0.00	0.00
ATOM	2824	HA	VAL	X	183	27.863	48.235	26.838	0.00	0.00
ATOM	2825	CB	VAL	X	183	27.582	46.909	28.424	0.00	0.00
ATOM	2826	HB	VAL	X	183	27.958	47.548	29.224	0.00	0.00
ATOM	2827	CG1	VAL	X	183	26.497	46.038	29.011	0.00	0.00
ATOM	2828	HG11	VAL	X	183	26.840	45.455	29.866	0.00	0.00
ATOM	2829	HG12	VAL	X	183	25.743	46.729	29.389	0.00	0.00
ATOM	2830	HG13	VAL	X	183	26.174	45.350	28.230	0.00	0.00
ATOM	2831	CG2	VAL	X	183	28.726	45.942	27.918	0.00	0.00
ATOM	2832	HG21	VAL	X	183	28.401	45.004	27.469	0.00	0.00
ATOM	2833	HG22	VAL	X	183	29.277	45.733	28.835	0.00	0.00
ATOM	2834	HG23	VAL	X	183	29.428	46.458	27.263	0.00	0.00
ATOM	2835	C	VAL	X	183	26.257	46.985	26.167	0.00	0.00
ATOM	2836	O	VAL	X	183	26.988	46.446	25.350	0.00	0.00
ATOM	2837	N	ALA	X	184	24.928	46.911	26.200	0.00	0.00
ATOM	2838	H	ALA	X	184	24.479	47.395	26.965	0.00	0.00
ATOM	2839	CA	ALA	X	184	24.217	46.285	25.061	0.00	0.00
ATOM	2840	HA	ALA	X	184	24.596	45.263	25.083	0.00	0.00
ATOM	2841	CB	ALA	X	184	22.679	46.251	25.368	0.00	0.00
ATOM	2842	HB1	ALA	X	184	22.351	47.273	25.556	0.00	0.00
ATOM	2843	HB2	ALA	X	184	22.388	45.611	26.201	0.00	0.00
ATOM	2844	HB3	ALA	X	184	22.204	45.712	24.548	0.00	0.00
ATOM	2845	C	ALA	X	184	24.407	47.032	23.707	0.00	0.00
ATOM	2846	O	ALA	X	184	24.274	46.487	22.627	0.00	0.00
ATOM	2847	N	ALA	X	185	24.896	48.248	23.685	0.00	0.00
ATOM	2848	H	ALA	X	185	25.177	48.717	24.534	0.00	0.00
ATOM	2849	CA	ALA	X	185	25.155	48.976	22.440	0.00	0.00
ATOM	2850	HA	ALA	X	185	24.287	48.821	21.798	0.00	0.00
ATOM	2851	CB	ALA	X	185	25.329	50.466	22.689	0.00	0.00
ATOM	2852	HB1	ALA	X	185	25.248	50.997	21.741	0.00	0.00
ATOM	2853	HB2	ALA	X	185	26.320	50.654	23.104	0.00	0.00
ATOM	2854	HB3	ALA	X	185	24.527	50.784	23.355	0.00	0.00
ATOM	2855	C	ALA	X	185	26.408	48.392	21.663	0.00	0.00
ATOM	2856	O	ALA	X	185	26.423	48.298	20.421	0.00	0.00
ATOM	2857	N	PHE	X	186	27.307	47.806	22.447	0.00	0.00
ATOM	2858	H	PHE	X	186	27.321	47.939	23.448	0.00	0.00
ATOM	2859	CA	PHE	X	186	28.454	46.992	21.995	0.00	0.00

ATOM	2860	HA	PHE	X	186	28.812	47.377	21.040	0.00	0.00
ATOM	2861	CB	PHE	X	186	29.683	47.043	22.866	0.00	0.00
ATOM	2862	HB2	PHE	X	186	29.485	46.509	23.796	0.00	0.00
ATOM	2863	HB3	PHE	X	186	30.534	46.552	22.394	0.00	0.00
ATOM	2864	CG	PHE	X	186	30.106	48.456	23.143	0.00	0.00
ATOM	2865	CD1	PHE	X	186	29.632	49.159	24.274	0.00	0.00
ATOM	2866	HD1	PHE	X	186	28.904	48.718	24.939	0.00	0.00
ATOM	2867	CE1	PHE	X	186	30.103	50.443	24.615	0.00	0.00
ATOM	2868	HE1	PHE	X	186	29.652	50.936	25.463	0.00	0.00
ATOM	2869	CZ	PHE	X	186	31.182	50.939	23.875	0.00	0.00
ATOM	2870	HZ	PHE	X	186	31.541	51.916	24.163	0.00	0.00
ATOM	2871	CE2	PHE	X	186	31.675	50.251	22.749	0.00	0.00
ATOM	2872	HE2	PHE	X	186	32.430	50.786	22.193	0.00	0.00
ATOM	2873	CD2	PHE	X	186	31.151	49.028	22.348	0.00	0.00
ATOM	2874	HD2	PHE	X	186	31.657	48.511	21.546	0.00	0.00
ATOM	2875	C	PHE	X	186	28.203	45.518	21.747	0.00	0.00
ATOM	2876	O	PHE	X	186	29.153	44.775	21.436	0.00	0.00
ATOM	2877	N	GLY	X	187	27.029	45.006	21.989	0.00	0.00
ATOM	2878	H	GLY	X	187	26.236	45.603	22.177	0.00	0.00
ATOM	2879	CA	GLY	X	187	26.724	43.587	21.756	0.00	0.00
ATOM	2880	HA2	GLY	X	187	25.690	43.673	21.422	0.00	0.00
ATOM	2881	HA3	GLY	X	187	27.352	43.124	20.995	0.00	0.00
ATOM	2882	C	GLY	X	187	26.698	42.765	23.045	0.00	0.00
ATOM	2883	O	GLY	X	187	26.718	41.545	22.950	0.00	0.00
ATOM	2884	N	GLY	X	188	26.820	43.456	24.178	0.00	0.00
ATOM	2885	H	GLY	X	188	27.060	44.437	24.200	0.00	0.00
ATOM	2886	CA	GLY	X	188	26.887	42.812	25.484	0.00	0.00
ATOM	2887	HA2	GLY	X	188	27.365	41.844	25.333	0.00	0.00
ATOM	2888	HA3	GLY	X	188	27.456	43.434	26.174	0.00	0.00
ATOM	2889	C	GLY	X	188	25.511	42.604	26.134	0.00	0.00
ATOM	2890	O	GLY	X	188	24.458	42.842	25.463	0.00	0.00
ATOM	2891	N	ASP	X	189	25.547	42.246	27.433	0.00	0.00
ATOM	2892	H	ASP	X	189	26.385	42.225	27.997	0.00	0.00
ATOM	2893	CA	ASP	X	189	24.387	41.907	28.135	0.00	0.00
ATOM	2894	HA	ASP	X	189	23.574	42.509	27.731	0.00	0.00
ATOM	2895	CB	ASP	X	189	23.931	40.502	27.838	0.00	0.00
ATOM	2896	HB2	ASP	X	189	23.794	40.257	26.785	0.00	0.00
ATOM	2897	HB3	ASP	X	189	24.839	39.955	28.089	0.00	0.00
ATOM	2898	CG	ASP	X	189	22.810	40.030	28.731	0.00	0.00
ATOM	2899	OD1	ASP	X	189	21.937	40.883	29.073	0.00	0.00
ATOM	2900	OD2	ASP	X	189	22.909	38.861	29.167	0.00	0.00
ATOM	2901	C	ASP	X	189	24.517	42.339	29.621	0.00	0.00
ATOM	2902	O	ASP	X	189	25.294	41.683	30.358	0.00	0.00
ATOM	2903	N	PRO	X	190	23.692	43.263	30.073	0.00	0.00
ATOM	2904	CD	PRO	X	190	22.888	44.199	29.239	0.00	0.00
ATOM	2905	HD2	PRO	X	190	22.059	43.713	28.724	0.00	0.00
ATOM	2906	HD3	PRO	X	190	23.460	44.749	28.491	0.00	0.00
ATOM	2907	CG	PRO	X	190	22.116	45.067	30.190	0.00	0.00
ATOM	2908	HG2	PRO	X	190	21.150	44.610	30.403	0.00	0.00
ATOM	2909	HG3	PRO	X	190	22.060	46.105	29.861	0.00	0.00
ATOM	2910	CB	PRO	X	190	22.897	44.994	31.488	0.00	0.00
ATOM	2911	HB2	PRO	X	190	22.198	45.027	32.324	0.00	0.00
ATOM	2912	HB3	PRO	X	190	23.554	45.863	31.528	0.00	0.00
ATOM	2913	CA	PRO	X	190	23.609	43.663	31.466	0.00	0.00
ATOM	2914	HA	PRO	X	190	24.639	43.818	31.787	0.00	0.00
ATOM	2915	C	PRO	X	190	22.955	42.671	32.416	0.00	0.00
ATOM	2916	O	PRO	X	190	22.949	42.882	33.646	0.00	0.00
ATOM	2917	N	THR	X	191	22.359	41.559	31.894	0.00	0.00
ATOM	2918	H	THR	X	191	22.408	41.409	30.896	0.00	0.00
ATOM	2919	CA	THR	X	191	21.933	40.379	32.733	0.00	0.00
ATOM	2920	HA	THR	X	191	21.852	40.791	33.738	0.00	0.00
ATOM	2921	CB	THR	X	191	20.510	39.969	32.235	0.00	0.00
ATOM	2922	HB	THR	X	191	20.052	39.277	32.942	0.00	0.00
ATOM	2923	CG2	THR	X	191	19.517	41.184	32.082	0.00	0.00
ATOM	2924	HG21	THR	X	191	19.934	41.910	31.384	0.00	0.00
ATOM	2925	HG22	THR	X	191	19.225	41.611	33.041	0.00	0.00
ATOM	2926	HG23	THR	X	191	18.575	40.974	31.575	0.00	0.00

ATOM	2927	OG1	THR	X	191	20.547	39.444	30.909	0.00	0.00
ATOM	2928	HG1	THR	X	191	21.303	39.778	30.422	0.00	0.00
ATOM	2929	C	THR	X	191	23.006	39.214	32.813	0.00	0.00
ATOM	2930	O	THR	X	191	22.744	38.201	33.436	0.00	0.00
ATOM	2931	N	SER	X	192	24.148	39.424	32.168	0.00	0.00
ATOM	2932	H	SER	X	192	24.210	40.304	31.677	0.00	0.00
ATOM	2933	CA	SER	X	192	25.287	38.542	32.268	0.00	0.00
ATOM	2934	HA	SER	X	192	25.259	38.019	33.224	0.00	0.00
ATOM	2935	CB	SER	X	192	25.267	37.592	31.038	0.00	0.00
ATOM	2936	HB2	SER	X	192	25.409	38.303	30.224	0.00	0.00
ATOM	2937	HB3	SER	X	192	25.917	36.734	31.213	0.00	0.00
ATOM	2938	OG	SER	X	192	23.980	36.990	30.738	0.00	0.00
ATOM	2939	HG	SER	X	192	23.386	37.723	30.562	0.00	0.00
ATOM	2940	C	SER	X	192	26.647	39.264	32.410	0.00	0.00
ATOM	2941	O	SER	X	192	27.591	38.950	31.709	0.00	0.00
ATOM	2942	N	VAL	X	193	26.879	40.054	33.471	0.00	0.00
ATOM	2943	H	VAL	X	193	26.127	40.136	34.141	0.00	0.00
ATOM	2944	CA	VAL	X	193	28.226	40.678	33.630	0.00	0.00
ATOM	2945	HA	VAL	X	193	28.621	40.726	32.616	0.00	0.00
ATOM	2946	CB	VAL	X	193	28.017	42.139	34.244	0.00	0.00
ATOM	2947	HB	VAL	X	193	27.353	42.035	35.102	0.00	0.00
ATOM	2948	CG1	VAL	X	193	29.290	42.696	34.797	0.00	0.00
ATOM	2949	HG11	VAL	X	193	29.557	42.225	35.743	0.00	0.00
ATOM	2950	HG12	VAL	X	193	30.034	42.577	34.010	0.00	0.00
ATOM	2951	HG13	VAL	X	193	29.083	43.728	35.078	0.00	0.00
ATOM	2952	CG2	VAL	X	193	27.456	43.034	33.102	0.00	0.00
ATOM	2953	HG21	VAL	X	193	27.410	44.056	33.477	0.00	0.00
ATOM	2954	HG22	VAL	X	193	26.393	42.882	32.917	0.00	0.00
ATOM	2955	HG23	VAL	X	193	27.942	42.954	32.130	0.00	0.00
ATOM	2956	C	VAL	X	193	29.102	39.851	34.625	0.00	0.00
ATOM	2957	O	VAL	X	193	28.757	39.429	35.773	0.00	0.00
ATOM	2958	N	THR	X	194	30.292	39.483	34.119	0.00	0.00
ATOM	2959	H	THR	X	194	30.532	39.946	33.254	0.00	0.00
ATOM	2960	CA	THR	X	194	31.334	38.815	34.906	0.00	0.00
ATOM	2961	HA	THR	X	194	30.896	38.563	35.872	0.00	0.00
ATOM	2962	CB	THR	X	194	31.837	37.590	34.028	0.00	0.00
ATOM	2963	HB	THR	X	194	32.086	37.937	33.025	0.00	0.00
ATOM	2964	CG2	THR	X	194	32.887	36.617	34.703	0.00	0.00
ATOM	2965	HG21	THR	X	194	33.841	37.112	34.881	0.00	0.00
ATOM	2966	HG22	THR	X	194	33.105	35.786	34.032	0.00	0.00
ATOM	2967	HG23	THR	X	194	32.448	36.324	35.657	0.00	0.00
ATOM	2968	OG1	THR	X	194	30.695	36.790	33.852	0.00	0.00
ATOM	2969	HG1	THR	X	194	30.148	37.231	33.198	0.00	0.00
ATOM	2970	C	THR	X	194	32.594	39.706	35.234	0.00	0.00
ATOM	2971	O	THR	X	194	33.225	40.229	34.337	0.00	0.00
ATOM	2972	N	LEU	X	195	32.812	39.864	36.536	0.00	0.00
ATOM	2973	H	LEU	X	195	32.163	39.426	37.173	0.00	0.00
ATOM	2974	CA	LEU	X	195	34.120	40.396	37.041	0.00	0.00
ATOM	2975	HA	LEU	X	195	34.509	41.168	36.376	0.00	0.00
ATOM	2976	CB	LEU	X	195	33.889	41.056	38.455	0.00	0.00
ATOM	2977	HB2	LEU	X	195	33.616	40.296	39.187	0.00	0.00
ATOM	2978	HB3	LEU	X	195	34.880	41.429	38.714	0.00	0.00
ATOM	2979	CG	LEU	X	195	32.799	42.141	38.519	0.00	0.00
ATOM	2980	HG	LEU	X	195	31.889	41.547	38.426	0.00	0.00
ATOM	2981	CD1	LEU	X	195	32.898	42.712	39.960	0.00	0.00
ATOM	2982	HD11	LEU	X	195	32.013	43.321	40.145	0.00	0.00
ATOM	2983	HD12	LEU	X	195	33.755	43.347	40.183	0.00	0.00
ATOM	2984	HD13	LEU	X	195	32.823	41.856	40.631	0.00	0.00
ATOM	2985	CD2	LEU	X	195	32.984	43.198	37.469	0.00	0.00
ATOM	2986	HD21	LEU	X	195	32.386	44.058	37.771	0.00	0.00
ATOM	2987	HD22	LEU	X	195	34.044	43.435	37.377	0.00	0.00
ATOM	2988	HD23	LEU	X	195	32.533	42.751	36.583	0.00	0.00
ATOM	2989	C	LEU	X	195	35.252	39.394	37.137	0.00	0.00
ATOM	2990	O	LEU	X	195	35.087	38.351	37.777	0.00	0.00
ATOM	2991	N	PHE	X	196	36.407	39.727	36.544	0.00	0.00
ATOM	2992	H	PHE	X	196	36.480	40.714	36.343	0.00	0.00
ATOM	2993	CA	PHE	X	196	37.608	38.934	36.575	0.00	0.00

ATOM	2994	HA	PHE	X	196	37.544	38.208	37.385	0.00	0.00
ATOM	2995	CB	PHE	X	196	37.781	38.086	35.291	0.00	0.00
ATOM	2996	HB2	PHE	X	196	38.561	37.347	35.474	0.00	0.00
ATOM	2997	HB3	PHE	X	196	36.855	37.532	35.139	0.00	0.00
ATOM	2998	CG	PHE	X	196	38.074	38.705	33.900	0.00	0.00
ATOM	2999	CD1	PHE	X	196	37.203	39.679	33.348	0.00	0.00
ATOM	3000	HD1	PHE	X	196	36.299	39.836	33.918	0.00	0.00
ATOM	3001	CE1	PHE	X	196	37.454	40.329	32.145	0.00	0.00
ATOM	3002	HE1	PHE	X	196	36.779	40.993	31.626	0.00	0.00
ATOM	3003	CZ	PHE	X	196	38.488	39.807	31.350	0.00	0.00
ATOM	3004	HZ	PHE	X	196	38.769	40.216	30.391	0.00	0.00
ATOM	3005	CE2	PHE	X	196	39.320	38.773	31.846	0.00	0.00
ATOM	3006	HE2	PHE	X	196	40.152	38.385	31.277	0.00	0.00
ATOM	3007	CD2	PHE	X	196	39.114	38.253	33.120	0.00	0.00
ATOM	3008	HD2	PHE	X	196	39.791	37.458	33.396	0.00	0.00
ATOM	3009	C	PHE	X	196	38.761	39.986	36.883	0.00	0.00
ATOM	3010	O	PHE	X	196	38.658	41.177	36.513	0.00	0.00
ATOM	3011	N	GLY	X	197	39.723	39.528	37.701	0.00	0.00
ATOM	3012	H	GLY	X	197	39.692	38.575	38.033	0.00	0.00
ATOM	3013	CA	GLY	X	197	40.876	40.415	38.048	0.00	0.00
ATOM	3014	HA2	GLY	X	197	41.276	40.859	37.137	0.00	0.00
ATOM	3015	HA3	GLY	X	197	40.647	41.211	38.756	0.00	0.00
ATOM	3016	C	GLY	X	197	42.028	39.694	38.748	0.00	0.00
ATOM	3017	O	GLY	X	197	41.819	38.585	39.286	0.00	0.00
ATOM	3018	N	GLU	X	198	43.267	40.297	38.771	0.00	0.00
ATOM	3019	H	GLU	X	198	43.413	41.274	38.563	0.00	0.00
ATOM	3020	CA	GLU	X	198	44.438	39.708	39.373	0.00	0.00
ATOM	3021	HA	GLU	X	198	44.202	38.716	39.757	0.00	0.00
ATOM	3022	CB	GLU	X	198	45.502	39.559	38.266	0.00	0.00
ATOM	3023	HB2	GLU	X	198	46.383	39.137	38.751	0.00	0.00
ATOM	3024	HB3	GLU	X	198	45.247	38.887	37.446	0.00	0.00
ATOM	3025	CG	GLU	X	198	45.844	40.837	37.520	0.00	0.00
ATOM	3026	HG2	GLU	X	198	46.178	40.576	36.515	0.00	0.00
ATOM	3027	HG3	GLU	X	198	44.957	41.416	37.265	0.00	0.00
ATOM	3028	CD	GLU	X	198	47.007	41.624	38.083	0.00	0.00
ATOM	3029	OE1	GLU	X	198	47.338	42.580	37.336	0.00	0.00
ATOM	3030	OE2	GLU	X	198	47.698	41.119	38.942	0.00	0.00
ATOM	3031	C	GLU	X	198	44.916	40.465	40.640	0.00	0.00
ATOM	3032	O	GLU	X	198	44.940	41.661	40.693	0.00	0.00
ATOM	3033	N	XA1	X	199	45.283	39.762	41.699	0.00	0.00
ATOM	3034	CA	XA1	X	199	46.050	40.242	42.862	0.00	0.00
ATOM	3035	C	XA1	X	199	45.255	41.270	43.745	0.00	0.00
ATOM	3036	O	XA1	X	199	44.240	40.925	44.287	0.00	0.00
ATOM	3037	CB	XA1	X	199	47.483	40.763	42.544	0.00	0.00
ATOM	3038	OG	XA1	X	199	48.309	40.959	43.766	0.00	0.00
ATOM	3039	P1	XA1	X	199	49.243	42.259	43.872	0.00	0.00
ATOM	3040	O1	XA1	X	199	48.583	43.400	43.314	0.00	0.00
ATOM	3041	O2	XA1	X	199	50.628	42.086	43.292	0.00	0.00
ATOM	3042	C1	XA1	X	199	49.388	42.365	45.613	0.00	0.00
ATOM	3043	H	XA1	X	199	45.221	38.754	41.667	0.00	0.00
ATOM	3044	HA	XA1	X	199	46.245	39.319	43.408	0.00	0.00
ATOM	3045	HB2	XA1	X	199	48.021	40.038	41.927	0.00	0.00
ATOM	3046	HB3	XA1	X	199	47.397	41.710	42.006	0.00	0.00
ATOM	3047	H11	XA1	X	199	48.439	42.000	46.011	0.00	0.00
ATOM	3048	H12	XA1	X	199	50.258	41.785	45.925	0.00	0.00
ATOM	3049	H13	XA1	X	199	49.584	43.398	45.908	0.00	0.00
ATOM	3050	N	ALA	X	200	45.668	42.585	43.696	0.00	0.00
ATOM	3051	H	ALA	X	200	46.594	42.827	43.374	0.00	0.00
ATOM	3052	CA	ALA	X	200	44.872	43.761	44.180	0.00	0.00
ATOM	3053	HA	ALA	X	200	44.617	43.611	45.229	0.00	0.00
ATOM	3054	CB	ALA	X	200	45.724	45.060	44.022	0.00	0.00
ATOM	3055	HB1	ALA	X	200	46.556	44.969	44.720	0.00	0.00
ATOM	3056	HB2	ALA	X	200	45.182	45.926	44.403	0.00	0.00
ATOM	3057	HB3	ALA	X	200	46.021	45.094	42.974	0.00	0.00
ATOM	3058	C	ALA	X	200	43.526	43.792	43.386	0.00	0.00
ATOM	3059	O	ALA	X	200	42.517	44.193	44.014	0.00	0.00
ATOM	3060	N	GLY	X	201	43.457	43.437	42.106	0.00	0.00

ATOM	3061	H	GLY	X	201	44.324	43.179	41.656	0.00	0.00
ATOM	3062	CA	GLY	X	201	42.162	43.222	41.537	0.00	0.00
ATOM	3063	HA2	GLY	X	201	41.548	44.121	41.493	0.00	0.00
ATOM	3064	HA3	GLY	X	201	42.312	42.922	40.500	0.00	0.00
ATOM	3065	C	GLY	X	201	41.349	41.988	41.985	0.00	0.00
ATOM	3066	O	GLY	X	201	40.083	42.177	42.108	0.00	0.00
ATOM	3067	N	ALA	X	202	41.917	40.851	42.316	0.00	0.00
ATOM	3068	H	ALA	X	202	42.919	40.888	42.192	0.00	0.00
ATOM	3069	CA	ALA	X	202	41.245	39.684	42.947	0.00	0.00
ATOM	3070	HA	ALA	X	202	40.389	39.282	42.405	0.00	0.00
ATOM	3071	CB	ALA	X	202	42.212	38.546	43.016	0.00	0.00
ATOM	3072	HB1	ALA	X	202	41.860	37.814	43.742	0.00	0.00
ATOM	3073	HB2	ALA	X	202	43.116	38.869	43.533	0.00	0.00
ATOM	3074	HB3	ALA	X	202	42.609	38.291	42.033	0.00	0.00
ATOM	3075	C	ALA	X	202	40.722	40.124	44.435	0.00	0.00
ATOM	3076	O	ALA	X	202	39.502	40.050	44.722	0.00	0.00
ATOM	3077	N	ALA	X	203	41.537	40.818	45.228	0.00	0.00
ATOM	3078	H	ALA	X	203	42.468	40.980	44.873	0.00	0.00
ATOM	3079	CA	ALA	X	203	41.013	41.538	46.422	0.00	0.00
ATOM	3080	HA	ALA	X	203	40.595	40.756	47.056	0.00	0.00
ATOM	3081	CB	ALA	X	203	42.146	42.239	47.050	0.00	0.00
ATOM	3082	HB1	ALA	X	203	42.605	42.870	46.289	0.00	0.00
ATOM	3083	HB2	ALA	X	203	42.881	41.485	47.329	0.00	0.00
ATOM	3084	HB3	ALA	X	203	41.851	42.837	47.913	0.00	0.00
ATOM	3085	C	ALA	X	203	39.815	42.473	46.121	0.00	0.00
ATOM	3086	O	ALA	X	203	38.833	42.380	46.742	0.00	0.00
ATOM	3087	N	SER	X	204	39.909	43.246	45.036	0.00	0.00
ATOM	3088	H	SER	X	204	40.882	43.388	44.804	0.00	0.00
ATOM	3089	CA	SER	X	204	38.801	44.168	44.690	0.00	0.00
ATOM	3090	HA	SER	X	204	38.508	44.768	45.552	0.00	0.00
ATOM	3091	CB	SER	X	204	39.246	45.040	43.542	0.00	0.00
ATOM	3092	HB2	SER	X	204	39.313	44.491	42.603	0.00	0.00
ATOM	3093	HB3	SER	X	204	38.643	45.936	43.392	0.00	0.00
ATOM	3094	OG	SER	X	204	40.395	45.692	43.977	0.00	0.00
ATOM	3095	HG	SER	X	204	41.105	45.049	44.035	0.00	0.00
ATOM	3096	C	SER	X	204	37.522	43.417	44.309	0.00	0.00
ATOM	3097	O	SER	X	204	36.480	43.885	44.801	0.00	0.00
ATOM	3098	N	VAL	X	205	37.531	42.358	43.540	0.00	0.00
ATOM	3099	H	VAL	X	205	38.457	42.047	43.282	0.00	0.00
ATOM	3100	CA	VAL	X	205	36.287	41.620	43.134	0.00	0.00
ATOM	3101	HA	VAL	X	205	35.467	42.244	42.779	0.00	0.00
ATOM	3102	CB	VAL	X	205	36.568	40.694	41.902	0.00	0.00
ATOM	3103	HB	VAL	X	205	37.332	39.981	42.211	0.00	0.00
ATOM	3104	CG1	VAL	X	205	35.342	39.892	41.450	0.00	0.00
ATOM	3105	HG11	VAL	X	205	34.404	40.446	41.493	0.00	0.00
ATOM	3106	HG12	VAL	X	205	35.525	39.286	40.563	0.00	0.00
ATOM	3107	HG13	VAL	X	205	35.245	39.127	42.220	0.00	0.00
ATOM	3108	CG2	VAL	X	205	37.048	41.487	40.677	0.00	0.00
ATOM	3109	HG21	VAL	X	205	37.341	40.802	39.881	0.00	0.00
ATOM	3110	HG22	VAL	X	205	37.957	42.027	40.940	0.00	0.00
ATOM	3111	HG23	VAL	X	205	36.291	42.112	40.203	0.00	0.00
ATOM	3112	C	VAL	X	205	35.621	40.946	44.262	0.00	0.00
ATOM	3113	O	VAL	X	205	34.384	40.784	44.439	0.00	0.00
ATOM	3114	N	GLY	X	206	36.443	40.493	45.195	0.00	0.00
ATOM	3115	H	GLY	X	206	37.444	40.545	45.072	0.00	0.00
ATOM	3116	CA	GLY	X	206	35.981	40.148	46.586	0.00	0.00
ATOM	3117	HA2	GLY	X	206	35.133	39.471	46.490	0.00	0.00
ATOM	3118	HA3	GLY	X	206	36.845	39.668	47.045	0.00	0.00
ATOM	3119	C	GLY	X	206	35.465	41.267	47.495	0.00	0.00
ATOM	3120	O	GLY	X	206	34.530	41.035	48.210	0.00	0.00
ATOM	3121	N	MET	X	207	35.938	42.507	47.443	0.00	0.00
ATOM	3122	H	MET	X	207	36.710	42.715	46.826	0.00	0.00
ATOM	3123	CA	MET	X	207	35.245	43.704	48.049	0.00	0.00
ATOM	3124	HA	MET	X	207	34.978	43.498	49.085	0.00	0.00
ATOM	3125	CB	MET	X	207	36.217	44.876	48.168	0.00	0.00
ATOM	3126	HB2	MET	X	207	36.637	45.124	47.193	0.00	0.00
ATOM	3127	HB3	MET	X	207	35.697	45.709	48.642	0.00	0.00

ATOM	3128	CG	MET	X	207	37.292	44.613	49.251	0.00	0.00
ATOM	3129	HG2	MET	X	207	36.761	44.452	50.190	0.00	0.00
ATOM	3130	HG3	MET	X	207	37.519	43.569	49.038	0.00	0.00
ATOM	3131	SD	MET	X	207	38.861	45.532	49.098	0.00	0.00
ATOM	3132	CE	MET	X	207	39.983	44.514	50.105	0.00	0.00
ATOM	3133	HE1	MET	X	207	39.573	44.429	51.111	0.00	0.00
ATOM	3134	HE2	MET	X	207	40.054	43.504	49.702	0.00	0.00
ATOM	3135	HE3	MET	X	207	40.946	45.025	50.138	0.00	0.00
ATOM	3136	C	MET	X	207	33.945	44.106	47.323	0.00	0.00
ATOM	3137	O	MET	X	207	32.975	44.526	47.942	0.00	0.00
ATOM	3138	N	HIE	X	208	33.955	44.028	45.978	0.00	0.00
ATOM	3139	H	HIE	X	208	34.852	43.759	45.600	0.00	0.00
ATOM	3140	CA	HIE	X	208	32.683	44.170	45.189	0.00	0.00
ATOM	3141	HA	HIE	X	208	32.172	45.126	45.302	0.00	0.00
ATOM	3142	CB	HIE	X	208	32.960	44.176	43.683	0.00	0.00
ATOM	3143	HB2	HIE	X	208	33.407	43.201	43.492	0.00	0.00
ATOM	3144	HB3	HIE	X	208	32.067	44.214	43.058	0.00	0.00
ATOM	3145	CG	HIE	X	208	33.909	45.333	43.227	0.00	0.00
ATOM	3146	ND1	HIE	X	208	33.551	46.659	43.552	0.00	0.00
ATOM	3147	CE1	HIE	X	208	34.461	47.443	42.979	0.00	0.00
ATOM	3148	HE1	HIE	X	208	34.576	48.517	42.982	0.00	0.00
ATOM	3149	NE2	HIE	X	208	35.381	46.699	42.332	0.00	0.00
ATOM	3150	HE2	HIE	X	208	36.265	47.083	42.031	0.00	0.00
ATOM	3151	CD2	HIE	X	208	35.036	45.366	42.477	0.00	0.00
ATOM	3152	HD2	HIE	X	208	35.495	44.486	42.050	0.00	0.00
ATOM	3153	C	HIE	X	208	31.664	43.034	45.494	0.00	0.00
ATOM	3154	O	HIE	X	208	30.485	43.276	45.448	0.00	0.00
ATOM	3155	N	LEU	X	209	32.058	41.917	46.088	0.00	0.00
ATOM	3156	H	LEU	X	209	33.052	41.764	46.177	0.00	0.00
ATOM	3157	CA	LEU	X	209	31.250	40.816	46.508	0.00	0.00
ATOM	3158	HA	LEU	X	209	30.367	40.739	45.872	0.00	0.00
ATOM	3159	CB	LEU	X	209	32.001	39.524	46.582	0.00	0.00
ATOM	3160	HB2	LEU	X	209	32.424	39.300	45.603	0.00	0.00
ATOM	3161	HB3	LEU	X	209	32.911	39.666	47.164	0.00	0.00
ATOM	3162	CG	LEU	X	209	31.346	38.184	47.083	0.00	0.00
ATOM	3163	HG	LEU	X	209	31.062	38.383	48.117	0.00	0.00
ATOM	3164	CD1	LEU	X	209	30.099	37.880	46.285	0.00	0.00
ATOM	3165	HD11	LEU	X	209	29.695	36.955	46.698	0.00	0.00
ATOM	3166	HD12	LEU	X	209	30.345	37.862	45.224	0.00	0.00
ATOM	3167	HD13	LEU	X	209	29.365	38.657	46.500	0.00	0.00
ATOM	3168	CD2	LEU	X	209	32.282	37.000	47.198	0.00	0.00
ATOM	3169	HD21	LEU	X	209	33.022	36.886	46.407	0.00	0.00
ATOM	3170	HD22	LEU	X	209	32.887	37.098	48.099	0.00	0.00
ATOM	3171	HD23	LEU	X	209	31.724	36.065	47.260	0.00	0.00
ATOM	3172	C	LEU	X	209	30.733	41.200	47.897	0.00	0.00
ATOM	3173	O	LEU	X	209	29.525	41.007	48.123	0.00	0.00
ATOM	3174	N	LEU	X	210	31.556	41.666	48.822	0.00	0.00
ATOM	3175	H	LEU	X	210	32.526	41.791	48.573	0.00	0.00
ATOM	3176	CA	LEU	X	210	31.249	42.043	50.119	0.00	0.00
ATOM	3177	HA	LEU	X	210	30.616	41.220	50.452	0.00	0.00
ATOM	3178	CB	LEU	X	210	32.473	42.153	51.100	0.00	0.00
ATOM	3179	HB2	LEU	X	210	33.112	42.932	50.684	0.00	0.00
ATOM	3180	HB3	LEU	X	210	32.173	42.459	52.102	0.00	0.00
ATOM	3181	CG	LEU	X	210	33.312	40.841	51.272	0.00	0.00
ATOM	3182	HG	LEU	X	210	33.403	40.348	50.305	0.00	0.00
ATOM	3183	CD1	LEU	X	210	34.713	41.201	51.740	0.00	0.00
ATOM	3184	HD11	LEU	X	210	35.344	40.318	51.639	0.00	0.00
ATOM	3185	HD12	LEU	X	210	34.714	41.443	52.803	0.00	0.00
ATOM	3186	HD13	LEU	X	210	35.051	41.919	50.993	0.00	0.00
ATOM	3187	CD2	LEU	X	210	32.480	39.948	52.224	0.00	0.00
ATOM	3188	HD21	LEU	X	210	32.978	38.980	52.162	0.00	0.00
ATOM	3189	HD22	LEU	X	210	32.459	40.348	53.238	0.00	0.00
ATOM	3190	HD23	LEU	X	210	31.470	39.775	51.853	0.00	0.00
ATOM	3191	C	LEU	X	210	30.459	43.380	50.205	0.00	0.00
ATOM	3192	O	LEU	X	210	29.679	43.544	51.166	0.00	0.00
ATOM	3193	N	SER	X	211	30.520	44.297	49.253	0.00	0.00
ATOM	3194	H	SER	X	211	31.194	44.165	48.513	0.00	0.00

ATOM	3195	CA	SER	X	211	29.787	45.530	49.232	0.00	0.00
ATOM	3196	HA	SER	X	211	29.387	45.704	50.231	0.00	0.00
ATOM	3197	CB	SER	X	211	30.668	46.751	48.893	0.00	0.00
ATOM	3198	HB2	SER	X	211	30.010	47.620	48.903	0.00	0.00
ATOM	3199	HB3	SER	X	211	31.416	46.796	49.684	0.00	0.00
ATOM	3200	OG	SER	X	211	31.234	46.570	47.599	0.00	0.00
ATOM	3201	HG	SER	X	211	31.951	45.967	47.814	0.00	0.00
ATOM	3202	C	SER	X	211	28.515	45.461	48.302	0.00	0.00
ATOM	3203	O	SER	X	211	28.609	45.555	47.063	0.00	0.00
ATOM	3204	N	PRO	X	212	27.322	45.339	48.925	0.00	0.00
ATOM	3205	CD	PRO	X	212	27.058	45.214	50.380	0.00	0.00
ATOM	3206	HD2	PRO	X	212	27.370	46.173	50.794	0.00	0.00
ATOM	3207	HD3	PRO	X	212	27.505	44.314	50.801	0.00	0.00
ATOM	3208	CG	PRO	X	212	25.595	44.908	50.490	0.00	0.00
ATOM	3209	HG2	PRO	X	212	25.142	45.283	51.407	0.00	0.00
ATOM	3210	HG3	PRO	X	212	25.384	43.839	50.474	0.00	0.00
ATOM	3211	CB	PRO	X	212	25.009	45.519	49.263	0.00	0.00
ATOM	3212	HB2	PRO	X	212	24.747	46.566	49.418	0.00	0.00
ATOM	3213	HB3	PRO	X	212	24.084	44.982	49.051	0.00	0.00
ATOM	3214	CA	PRO	X	212	26.066	45.328	48.190	0.00	0.00
ATOM	3215	HA	PRO	X	212	25.965	44.290	47.874	0.00	0.00
ATOM	3216	C	PRO	X	212	25.930	46.347	47.028	0.00	0.00
ATOM	3217	O	PRO	X	212	25.464	45.799	45.996	0.00	0.00
ATOM	3218	N	PRO	X	213	26.308	47.626	47.020	0.00	0.00
ATOM	3219	CD	PRO	X	213	26.894	48.368	48.121	0.00	0.00
ATOM	3220	HD2	PRO	X	213	27.959	48.138	48.117	0.00	0.00
ATOM	3221	HD3	PRO	X	213	26.425	47.937	49.005	0.00	0.00
ATOM	3222	CG	PRO	X	213	26.501	49.849	47.864	0.00	0.00
ATOM	3223	HG2	PRO	X	213	27.152	50.628	48.262	0.00	0.00
ATOM	3224	HG3	PRO	X	213	25.524	49.969	48.333	0.00	0.00
ATOM	3225	CB	PRO	X	213	26.445	49.982	46.342	0.00	0.00
ATOM	3226	HB2	PRO	X	213	27.409	50.365	46.006	0.00	0.00
ATOM	3227	HB3	PRO	X	213	25.669	50.694	46.061	0.00	0.00
ATOM	3228	CA	PRO	X	213	26.156	48.489	45.855	0.00	0.00
ATOM	3229	HA	PRO	X	213	25.115	48.303	45.590	0.00	0.00
ATOM	3230	C	PRO	X	213	27.051	48.185	44.586	0.00	0.00
ATOM	3231	O	PRO	X	213	26.661	48.649	43.510	0.00	0.00
ATOM	3232	N	SER	X	214	28.126	47.423	44.687	0.00	0.00
ATOM	3233	H	SER	X	214	28.355	47.123	45.623	0.00	0.00
ATOM	3234	CA	SER	X	214	28.834	46.808	43.558	0.00	0.00
ATOM	3235	HA	SER	X	214	28.854	47.436	42.668	0.00	0.00
ATOM	3236	CB	SER	X	214	30.339	46.555	43.778	0.00	0.00
ATOM	3237	HB2	SER	X	214	30.379	45.825	44.586	0.00	0.00
ATOM	3238	HB3	SER	X	214	30.697	46.113	42.848	0.00	0.00
ATOM	3239	OG	SER	X	214	31.018	47.777	44.011	0.00	0.00
ATOM	3240	HG	SER	X	214	31.920	47.448	44.018	0.00	0.00
ATOM	3241	C	SER	X	214	28.124	45.459	43.224	0.00	0.00
ATOM	3242	O	SER	X	214	27.920	45.143	42.075	0.00	0.00
ATOM	3243	N	ARG	X	215	27.775	44.645	44.282	0.00	0.00
ATOM	3244	H	ARG	X	215	28.004	44.862	45.241	0.00	0.00
ATOM	3245	CA	ARG	X	215	27.292	43.323	44.040	0.00	0.00
ATOM	3246	HA	ARG	X	215	28.025	42.720	43.503	0.00	0.00
ATOM	3247	CB	ARG	X	215	26.914	42.517	45.373	0.00	0.00
ATOM	3248	HB2	ARG	X	215	27.726	42.672	46.084	0.00	0.00
ATOM	3249	HB3	ARG	X	215	26.017	42.908	45.852	0.00	0.00
ATOM	3250	CG	ARG	X	215	26.720	41.045	45.028	0.00	0.00
ATOM	3251	HG2	ARG	X	215	25.790	40.961	44.466	0.00	0.00
ATOM	3252	HG3	ARG	X	215	27.649	40.748	44.541	0.00	0.00
ATOM	3253	CD	ARG	X	215	26.673	40.182	46.293	0.00	0.00
ATOM	3254	HD2	ARG	X	215	26.463	39.177	45.927	0.00	0.00
ATOM	3255	HD3	ARG	X	215	27.577	40.099	46.897	0.00	0.00
ATOM	3256	NE	ARG	X	215	25.519	40.527	47.205	0.00	0.00
ATOM	3257	HE	ARG	X	215	24.584	40.274	46.919	0.00	0.00
ATOM	3258	CZ	ARG	X	215	25.658	40.868	48.494	0.00	0.00
ATOM	3259	NH1	ARG	X	215	26.795	40.992	49.131	0.00	0.00
ATOM	3260	HH11	ARG	X	215	27.709	40.874	48.719	0.00	0.00
ATOM	3261	HH12	ARG	X	215	26.757	41.195	50.120	0.00	0.00

ATOM	3262	NH2	ARG	X	215	24.516	41.151	49.085	0.00	0.00
ATOM	3263	HH21	ARG	X	215	23.642	41.241	48.587	0.00	0.00
ATOM	3264	HH22	ARG	X	215	24.514	41.311	50.082	0.00	0.00
ATOM	3265	C	ARG	X	215	26.074	43.358	43.146	0.00	0.00
ATOM	3266	O	ARG	X	215	25.844	42.449	42.306	0.00	0.00
ATOM	3267	N	GLY	X	216	25.177	44.349	43.329	0.00	0.00
ATOM	3268	H	GLY	X	216	25.355	45.094	43.988	0.00	0.00
ATOM	3269	CA	GLY	X	216	23.968	44.499	42.511	0.00	0.00
ATOM	3270	HA2	GLY	X	216	23.424	43.582	42.739	0.00	0.00
ATOM	3271	HA3	GLY	X	216	23.403	45.330	42.934	0.00	0.00
ATOM	3272	C	GLY	X	216	24.188	44.618	40.951	0.00	0.00
ATOM	3273	O	GLY	X	216	23.270	44.588	40.128	0.00	0.00
ATOM	3274	N	LEU	X	217	25.475	44.821	40.525	0.00	0.00
ATOM	3275	H	LEU	X	217	26.304	44.714	41.092	0.00	0.00
ATOM	3276	CA	LEU	X	217	25.910	45.275	39.227	0.00	0.00
ATOM	3277	HA	LEU	X	217	24.962	45.562	38.772	0.00	0.00
ATOM	3278	CB	LEU	X	217	26.743	46.558	39.202	0.00	0.00
ATOM	3279	HB2	LEU	X	217	27.756	46.347	39.545	0.00	0.00
ATOM	3280	HB3	LEU	X	217	26.756	47.030	38.220	0.00	0.00
ATOM	3281	CG	LEU	X	217	26.248	47.662	40.191	0.00	0.00
ATOM	3282	HG	LEU	X	217	26.404	47.354	41.225	0.00	0.00
ATOM	3283	CD1	LEU	X	217	27.191	48.807	40.071	0.00	0.00
ATOM	3284	HD11	LEU	X	217	26.896	49.597	40.761	0.00	0.00
ATOM	3285	HD12	LEU	X	217	27.186	49.294	39.096	0.00	0.00
ATOM	3286	HD13	LEU	X	217	28.153	48.358	40.321	0.00	0.00
ATOM	3287	CD2	LEU	X	217	24.768	48.111	39.879	0.00	0.00
ATOM	3288	HD21	LEU	X	217	24.681	49.120	40.281	0.00	0.00
ATOM	3289	HD22	LEU	X	217	24.516	48.257	38.828	0.00	0.00
ATOM	3290	HD23	LEU	X	217	24.128	47.419	40.427	0.00	0.00
ATOM	3291	C	LEU	X	217	26.409	44.169	38.298	0.00	0.00
ATOM	3292	O	LEU	X	217	26.599	44.322	37.053	0.00	0.00
ATOM	3293	N	PHE	X	218	26.855	43.056	38.866	0.00	0.00
ATOM	3294	H	PHE	X	218	26.605	42.861	39.825	0.00	0.00
ATOM	3295	CA	PHE	X	218	27.474	41.940	38.223	0.00	0.00
ATOM	3296	HA	PHE	X	218	27.255	41.925	37.156	0.00	0.00
ATOM	3297	CB	PHE	X	218	28.991	42.057	38.472	0.00	0.00
ATOM	3298	HB2	PHE	X	218	29.413	41.288	37.824	0.00	0.00
ATOM	3299	HB3	PHE	X	218	29.444	43.002	38.173	0.00	0.00
ATOM	3300	CG	PHE	X	218	29.556	41.743	39.810	0.00	0.00
ATOM	3301	CD1	PHE	X	218	29.594	42.747	40.748	0.00	0.00
ATOM	3302	HD1	PHE	X	218	29.042	43.638	40.486	0.00	0.00
ATOM	3303	CE1	PHE	X	218	30.183	42.555	42.004	0.00	0.00
ATOM	3304	HE1	PHE	X	218	30.184	43.295	42.790	0.00	0.00
ATOM	3305	CZ	PHE	X	218	30.821	41.366	42.263	0.00	0.00
ATOM	3306	HZ	PHE	X	218	31.084	41.163	43.291	0.00	0.00
ATOM	3307	CE2	PHE	X	218	30.665	40.267	41.410	0.00	0.00
ATOM	3308	HE2	PHE	X	218	31.267	39.406	41.658	0.00	0.00
ATOM	3309	CD2	PHE	X	218	30.003	40.441	40.126	0.00	0.00
ATOM	3310	HD2	PHE	X	218	29.975	39.648	39.394	0.00	0.00
ATOM	3311	C	PHE	X	218	26.957	40.553	38.753	0.00	0.00
ATOM	3312	O	PHE	X	218	26.120	40.474	39.617	0.00	0.00
ATOM	3313	N	HIE	X	219	27.253	39.445	38.055	0.00	0.00
ATOM	3314	H	HIE	X	219	27.777	39.636	37.212	0.00	0.00
ATOM	3315	CA	HIE	X	219	26.605	38.168	38.174	0.00	0.00
ATOM	3316	HA	HIE	X	219	25.859	38.133	38.969	0.00	0.00
ATOM	3317	CB	HIE	X	219	25.956	37.780	36.858	0.00	0.00
ATOM	3318	HB2	HIE	X	219	26.651	37.756	36.019	0.00	0.00
ATOM	3319	HB3	HIE	X	219	25.638	36.738	36.874	0.00	0.00
ATOM	3320	CG	HIE	X	219	24.777	38.672	36.463	0.00	0.00
ATOM	3321	ND1	HIE	X	219	24.913	39.894	35.843	0.00	0.00
ATOM	3322	CE1	HIE	X	219	23.771	40.561	36.034	0.00	0.00
ATOM	3323	HE1	HIE	X	219	23.550	41.544	35.645	0.00	0.00
ATOM	3324	NE2	HIE	X	219	22.846	39.710	36.531	0.00	0.00
ATOM	3325	HE2	HIE	X	219	21.954	40.015	36.894	0.00	0.00
ATOM	3326	CD2	HIE	X	219	23.487	38.557	36.950	0.00	0.00
ATOM	3327	HD2	HIE	X	219	23.092	37.803	37.615	0.00	0.00
ATOM	3328	C	HIE	X	219	27.563	37.016	38.521	0.00	0.00

ATOM	3329	O	HIE	X	219	27.140	36.077	39.201	0.00	0.00
ATOM	3330	N	ARG	X	220	28.814	37.145	38.092	0.00	0.00
ATOM	3331	H	ARG	X	220	29.091	38.012	37.655	0.00	0.00
ATOM	3332	CA	ARG	X	220	29.885	36.068	38.229	0.00	0.00
ATOM	3333	HA	ARG	X	220	29.725	35.311	38.997	0.00	0.00
ATOM	3334	CB	ARG	X	220	29.903	35.177	36.962	0.00	0.00
ATOM	3335	HB2	ARG	X	220	29.906	35.807	36.073	0.00	0.00
ATOM	3336	HB3	ARG	X	220	30.813	34.577	36.938	0.00	0.00
ATOM	3337	CG	ARG	X	220	28.613	34.291	36.735	0.00	0.00
ATOM	3338	HG2	ARG	X	220	28.386	33.635	37.575	0.00	0.00
ATOM	3339	HG3	ARG	X	220	27.833	35.049	36.663	0.00	0.00
ATOM	3340	CD	ARG	X	220	28.703	33.461	35.468	0.00	0.00
ATOM	3341	HD2	ARG	X	220	28.983	34.169	34.687	0.00	0.00
ATOM	3342	HD3	ARG	X	220	29.475	32.714	35.650	0.00	0.00
ATOM	3343	NE	ARG	X	220	27.438	32.816	35.188	0.00	0.00
ATOM	3344	HE	ARG	X	220	27.139	32.140	35.875	0.00	0.00
ATOM	3345	CZ	ARG	X	220	26.575	33.181	34.258	0.00	0.00
ATOM	3346	NH1	ARG	X	220	26.843	33.956	33.274	0.00	0.00
ATOM	3347	HH11	ARG	X	220	27.696	34.448	33.049	0.00	0.00
ATOM	3348	HH12	ARG	X	220	26.048	34.133	32.677	0.00	0.00
ATOM	3349	NH2	ARG	X	220	25.350	32.765	34.286	0.00	0.00
ATOM	3350	HH21	ARG	X	220	25.060	32.199	35.071	0.00	0.00
ATOM	3351	HH22	ARG	X	220	24.722	32.922	33.511	0.00	0.00
ATOM	3352	C	ARG	X	220	31.254	36.747	38.603	0.00	0.00
ATOM	3353	O	ARG	X	220	31.607	37.824	38.131	0.00	0.00
ATOM	3354	N	ALA	X	221	31.952	36.146	39.570	0.00	0.00
ATOM	3355	H	ALA	X	221	31.611	35.255	39.901	0.00	0.00
ATOM	3356	CA	ALA	X	221	33.279	36.598	40.065	0.00	0.00
ATOM	3357	HA	ALA	X	221	33.665	37.568	39.751	0.00	0.00
ATOM	3358	CB	ALA	X	221	33.052	36.625	41.660	0.00	0.00
ATOM	3359	HB1	ALA	X	221	32.706	35.682	42.085	0.00	0.00
ATOM	3360	HB2	ALA	X	221	32.350	37.381	42.012	0.00	0.00
ATOM	3361	HB3	ALA	X	221	33.983	36.802	42.199	0.00	0.00
ATOM	3362	C	ALA	X	221	34.399	35.593	39.835	0.00	0.00
ATOM	3363	O	ALA	X	221	34.281	34.461	40.209	0.00	0.00
ATOM	3364	N	VAL	X	222	35.487	36.035	39.185	0.00	0.00
ATOM	3365	H	VAL	X	222	35.462	36.929	38.716	0.00	0.00
ATOM	3366	CA	VAL	X	222	36.740	35.355	39.044	0.00	0.00
ATOM	3367	HA	VAL	X	222	36.586	34.366	39.476	0.00	0.00
ATOM	3368	CB	VAL	X	222	37.222	35.221	37.577	0.00	0.00
ATOM	3369	HB	VAL	X	222	37.291	36.222	37.152	0.00	0.00
ATOM	3370	CG1	VAL	X	222	38.585	34.591	37.505	0.00	0.00
ATOM	3371	HG11	VAL	X	222	38.734	34.348	36.453	0.00	0.00
ATOM	3372	HG12	VAL	X	222	39.387	35.236	37.864	0.00	0.00
ATOM	3373	HG13	VAL	X	222	38.530	33.646	38.045	0.00	0.00
ATOM	3374	CG2	VAL	X	222	36.330	34.482	36.585	0.00	0.00
ATOM	3375	HG21	VAL	X	222	36.818	34.338	35.620	0.00	0.00
ATOM	3376	HG22	VAL	X	222	35.468	35.130	36.429	0.00	0.00
ATOM	3377	HG23	VAL	X	222	36.038	33.518	37.001	0.00	0.00
ATOM	3378	C	VAL	X	222	37.730	36.194	39.770	0.00	0.00
ATOM	3379	O	VAL	X	222	37.825	37.452	39.572	0.00	0.00
ATOM	3380	N	LEU	X	223	38.515	35.491	40.549	0.00	0.00
ATOM	3381	H	LEU	X	223	38.369	34.496	40.649	0.00	0.00
ATOM	3382	CA	LEU	X	223	39.635	36.053	41.255	0.00	0.00
ATOM	3383	HA	LEU	X	223	39.707	37.091	40.931	0.00	0.00
ATOM	3384	CB	LEU	X	223	39.439	35.908	42.778	0.00	0.00
ATOM	3385	HB2	LEU	X	223	39.234	34.845	42.901	0.00	0.00
ATOM	3386	HB3	LEU	X	223	40.377	36.008	43.325	0.00	0.00
ATOM	3387	CG	LEU	X	223	38.384	36.924	43.360	0.00	0.00
ATOM	3388	HG	LEU	X	223	38.748	37.918	43.102	0.00	0.00
ATOM	3389	CD1	LEU	X	223	36.923	36.725	42.962	0.00	0.00
ATOM	3390	HD11	LEU	X	223	36.711	37.119	41.968	0.00	0.00
ATOM	3391	HD12	LEU	X	223	36.334	37.394	43.588	0.00	0.00
ATOM	3392	HD13	LEU	X	223	36.626	35.676	42.982	0.00	0.00
ATOM	3393	CD2	LEU	X	223	38.419	36.796	44.901	0.00	0.00
ATOM	3394	HD21	LEU	X	223	37.751	37.564	45.290	0.00	0.00
ATOM	3395	HD22	LEU	X	223	38.033	35.896	45.379	0.00	0.00

ATOM	3396	HD23	LEU	X	223	39.407	37.013	45.308	0.00	0.00
ATOM	3397	C	LEU	X	223	40.886	35.305	40.855	0.00	0.00
ATOM	3398	O	LEU	X	223	40.867	34.120	40.593	0.00	0.00
ATOM	3399	N	GLN	X	224	41.996	35.955	40.704	0.00	0.00
ATOM	3400	H	GLN	X	224	41.940	36.963	40.735	0.00	0.00
ATOM	3401	CA	GLN	X	224	43.257	35.294	40.360	0.00	0.00
ATOM	3402	HA	GLN	X	224	43.232	34.205	40.341	0.00	0.00
ATOM	3403	CB	GLN	X	224	43.561	35.614	38.912	0.00	0.00
ATOM	3404	HB2	GLN	X	224	43.395	36.659	38.651	0.00	0.00
ATOM	3405	HB3	GLN	X	224	44.607	35.387	38.709	0.00	0.00
ATOM	3406	CG	GLN	X	224	42.683	34.726	37.963	0.00	0.00
ATOM	3407	HG2	GLN	X	224	42.636	33.672	38.238	0.00	0.00
ATOM	3408	HG3	GLN	X	224	41.710	35.200	38.094	0.00	0.00
ATOM	3409	CD	GLN	X	224	43.050	35.022	36.537	0.00	0.00
ATOM	3410	OE1	GLN	X	224	42.281	35.698	35.790	0.00	0.00
ATOM	3411	NE2	GLN	X	224	44.330	34.925	36.141	0.00	0.00
ATOM	3412	HE21	GLN	X	224	44.460	35.365	35.241	0.00	0.00
ATOM	3413	HE22	GLN	X	224	45.046	34.702	36.818	0.00	0.00
ATOM	3414	C	GLN	X	224	44.458	35.815	41.165	0.00	0.00
ATOM	3415	O	GLN	X	224	44.720	37.036	41.276	0.00	0.00
ATOM	3416	N	SER	X	225	45.198	34.877	41.739	0.00	0.00
ATOM	3417	H	SER	X	225	45.050	33.889	41.588	0.00	0.00
ATOM	3418	CA	SER	X	225	46.471	35.096	42.469	0.00	0.00
ATOM	3419	HA	SER	X	225	46.735	34.235	43.083	0.00	0.00
ATOM	3420	CB	SER	X	225	47.502	35.533	41.423	0.00	0.00
ATOM	3421	HB2	SER	X	225	47.359	34.950	40.513	0.00	0.00
ATOM	3422	HB3	SER	X	225	47.452	36.590	41.162	0.00	0.00
ATOM	3423	OG	SER	X	225	48.848	35.295	41.718	0.00	0.00
ATOM	3424	HG	SER	X	225	49.110	34.428	42.036	0.00	0.00
ATOM	3425	C	SER	X	225	46.296	36.154	43.624	0.00	0.00
ATOM	3426	O	SER	X	225	47.157	37.013	43.797	0.00	0.00
ATOM	3427	N	GLY	X	226	45.102	36.156	44.226	0.00	0.00
ATOM	3428	H	GLY	X	226	44.437	35.454	43.933	0.00	0.00
ATOM	3429	CA	GLY	X	226	44.749	37.098	45.338	0.00	0.00
ATOM	3430	HA2	GLY	X	226	45.503	36.958	46.112	0.00	0.00
ATOM	3431	HA3	GLY	X	226	44.683	38.145	45.042	0.00	0.00
ATOM	3432	C	GLY	X	226	43.414	36.744	45.971	0.00	0.00
ATOM	3433	O	GLY	X	226	42.671	35.952	45.354	0.00	0.00
ATOM	3434	N	ALA	X	227	43.185	37.403	47.116	0.00	0.00
ATOM	3435	H	ALA	X	227	43.978	37.893	47.507	0.00	0.00
ATOM	3436	CA	ALA	X	227	41.968	37.371	47.866	0.00	0.00
ATOM	3437	HA	ALA	X	227	41.115	37.111	47.239	0.00	0.00
ATOM	3438	CB	ALA	X	227	42.102	36.159	48.798	0.00	0.00
ATOM	3439	HB1	ALA	X	227	42.278	35.210	48.292	0.00	0.00
ATOM	3440	HB2	ALA	X	227	41.313	36.155	49.550	0.00	0.00
ATOM	3441	HB3	ALA	X	227	43.018	36.161	49.390	0.00	0.00
ATOM	3442	C	ALA	X	227	41.791	38.688	48.675	0.00	0.00
ATOM	3443	O	ALA	X	227	42.745	39.386	48.993	0.00	0.00
ATOM	3444	N	PRO	X	228	40.549	39.024	49.137	0.00	0.00
ATOM	3445	CD	PRO	X	228	39.351	38.235	48.905	0.00	0.00
ATOM	3446	HD2	PRO	X	228	39.630	37.207	49.133	0.00	0.00
ATOM	3447	HD3	PRO	X	228	39.203	38.310	47.827	0.00	0.00
ATOM	3448	CG	PRO	X	228	38.250	38.916	49.736	0.00	0.00
ATOM	3449	HG2	PRO	X	228	38.252	38.593	50.777	0.00	0.00
ATOM	3450	HG3	PRO	X	228	37.236	38.814	49.349	0.00	0.00
ATOM	3451	CB	PRO	X	228	38.668	40.403	49.668	0.00	0.00
ATOM	3452	HB2	PRO	X	228	38.382	40.984	50.545	0.00	0.00
ATOM	3453	HB3	PRO	X	228	38.338	40.757	48.692	0.00	0.00
ATOM	3454	CA	PRO	X	228	40.188	40.307	49.745	0.00	0.00
ATOM	3455	HA	PRO	X	228	40.661	41.157	49.253	0.00	0.00
ATOM	3456	C	PRO	X	228	40.717	40.278	51.246	0.00	0.00
ATOM	3457	O	PRO	X	228	41.220	41.252	51.708	0.00	0.00
ATOM	3458	N	ASN	X	229	40.664	39.126	51.930	0.00	0.00
ATOM	3459	H	ASN	X	229	40.195	38.407	51.399	0.00	0.00
ATOM	3460	CA	ASN	X	229	41.112	38.786	53.261	0.00	0.00
ATOM	3461	HA	ASN	X	229	40.973	39.590	53.984	0.00	0.00
ATOM	3462	CB	ASN	X	229	40.361	37.588	53.814	0.00	0.00

ATOM	3463	HB2	ASN	X	229	40.812	37.209	54.731	0.00	0.00
ATOM	3464	HB3	ASN	X	229	39.407	38.011	54.131	0.00	0.00
ATOM	3465	CG	ASN	X	229	40.108	36.423	52.803	0.00	0.00
ATOM	3466	OD1	ASN	X	229	39.434	36.522	51.753	0.00	0.00
ATOM	3467	ND2	ASN	X	229	40.647	35.267	53.179	0.00	0.00
ATOM	3468	HD21	ASN	X	229	40.757	34.469	52.570	0.00	0.00
ATOM	3469	HD22	ASN	X	229	41.229	35.335	54.001	0.00	0.00
ATOM	3470	C	ASN	X	229	42.675	38.590	53.366	0.00	0.00
ATOM	3471	O	ASN	X	229	43.109	38.159	54.411	0.00	0.00
ATOM	3472	N	GLY	X	230	43.503	39.013	52.403	0.00	0.00
ATOM	3473	H	GLY	X	230	43.044	39.240	51.533	0.00	0.00
ATOM	3474	CA	GLY	X	230	44.960	39.005	52.477	0.00	0.00
ATOM	3475	HA2	GLY	X	230	45.227	38.047	52.924	0.00	0.00
ATOM	3476	HA3	GLY	X	230	45.340	39.057	51.457	0.00	0.00
ATOM	3477	C	GLY	X	230	45.524	40.215	53.250	0.00	0.00
ATOM	3478	O	GLY	X	230	44.925	41.279	53.347	0.00	0.00
ATOM	3479	N	PRO	X	231	46.632	40.002	53.911	0.00	0.00
ATOM	3480	CD	PRO	X	231	47.585	38.949	53.698	0.00	0.00
ATOM	3481	HD2	PRO	X	231	47.862	38.759	52.662	0.00	0.00
ATOM	3482	HD3	PRO	X	231	47.091	38.059	54.089	0.00	0.00
ATOM	3483	CG	PRO	X	231	48.847	39.259	54.422	0.00	0.00
ATOM	3484	HG2	PRO	X	231	49.476	39.989	53.912	0.00	0.00
ATOM	3485	HG3	PRO	X	231	49.463	38.401	54.693	0.00	0.00
ATOM	3486	CB	PRO	X	231	48.241	39.969	55.623	0.00	0.00
ATOM	3487	HB2	PRO	X	231	48.969	40.606	56.125	0.00	0.00
ATOM	3488	HB3	PRO	X	231	47.744	39.273	56.298	0.00	0.00
ATOM	3489	CA	PRO	X	231	47.193	40.875	54.967	0.00	0.00
ATOM	3490	HA	PRO	X	231	46.422	41.121	55.697	0.00	0.00
ATOM	3491	C	PRO	X	231	47.715	42.242	54.437	0.00	0.00
ATOM	3492	O	PRO	X	231	47.964	43.143	55.273	0.00	0.00
ATOM	3493	N	TRP	X	232	47.937	42.377	53.141	0.00	0.00
ATOM	3494	H	TRP	X	232	47.665	41.580	52.582	0.00	0.00
ATOM	3495	CA	TRP	X	232	48.358	43.501	52.396	0.00	0.00
ATOM	3496	HA	TRP	X	232	48.868	44.298	52.937	0.00	0.00
ATOM	3497	CB	TRP	X	232	49.219	43.035	51.192	0.00	0.00
ATOM	3498	HB2	TRP	X	232	49.408	43.836	50.478	0.00	0.00
ATOM	3499	HB3	TRP	X	232	50.217	42.774	51.544	0.00	0.00
ATOM	3500	CG	TRP	X	232	48.596	41.871	50.470	0.00	0.00
ATOM	3501	CD1	TRP	X	232	48.959	40.530	50.786	0.00	0.00
ATOM	3502	HD1	TRP	X	232	49.766	40.180	51.412	0.00	0.00
ATOM	3503	NE1	TRP	X	232	48.186	39.653	50.015	0.00	0.00
ATOM	3504	HE1	TRP	X	232	48.338	38.655	50.040	0.00	0.00
ATOM	3505	CE2	TRP	X	232	47.320	40.364	49.224	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	46.388	39.915	48.246	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	46.246	38.855	48.098	0.00	0.00
ATOM	3508	CH2	TRP	X	232	45.701	40.817	47.418	0.00	0.00
ATOM	3509	HH2	TRP	X	232	45.045	40.456	46.640	0.00	0.00
ATOM	3510	CZ3	TRP	X	232	46.090	42.188	47.547	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	45.507	42.886	46.965	0.00	0.00
ATOM	3512	CE3	TRP	X	232	47.048	42.667	48.474	0.00	0.00
ATOM	3513	HE3	TRP	X	232	47.197	43.730	48.589	0.00	0.00
ATOM	3514	CD2	TRP	X	232	47.632	41.773	49.378	0.00	0.00
ATOM	3515	C	TRP	X	232	47.104	44.237	51.824	0.00	0.00
ATOM	3516	O	TRP	X	232	47.323	45.306	51.318	0.00	0.00
ATOM	3517	N	ALA	X	233	45.930	43.693	51.873	0.00	0.00
ATOM	3518	H	ALA	X	233	45.854	42.760	52.253	0.00	0.00
ATOM	3519	CA	ALA	X	233	44.826	44.137	51.001	0.00	0.00
ATOM	3520	HA	ALA	X	233	45.178	44.540	50.052	0.00	0.00
ATOM	3521	CB	ALA	X	233	43.960	42.907	50.670	0.00	0.00
ATOM	3522	HB1	ALA	X	233	43.682	42.493	51.638	0.00	0.00
ATOM	3523	HB2	ALA	X	233	44.577	42.197	50.118	0.00	0.00
ATOM	3524	HB3	ALA	X	233	43.189	43.144	49.936	0.00	0.00
ATOM	3525	C	ALA	X	233	43.969	45.188	51.623	0.00	0.00
ATOM	3526	O	ALA	X	233	43.161	45.862	50.963	0.00	0.00
ATOM	3527	N	THR	X	234	44.152	45.443	52.885	0.00	0.00
ATOM	3528	H	THR	X	234	44.854	44.819	53.256	0.00	0.00
ATOM	3529	CA	THR	X	234	43.459	46.397	53.726	0.00	0.00

ATOM	3530	HA	THR	X	234	43.088	47.082	52.963	0.00	0.00
ATOM	3531	CB	THR	X	234	42.242	45.837	54.449	0.00	0.00
ATOM	3532	HB	THR	X	234	41.874	46.647	55.079	0.00	0.00
ATOM	3533	CG2	THR	X	234	41.161	45.357	53.583	0.00	0.00
ATOM	3534	HG21	THR	X	234	40.857	46.075	52.821	0.00	0.00
ATOM	3535	HG22	THR	X	234	40.262	45.185	54.173	0.00	0.00
ATOM	3536	HG23	THR	X	234	41.477	44.508	52.976	0.00	0.00
ATOM	3537	OG1	THR	X	234	42.595	44.884	55.367	0.00	0.00
ATOM	3538	HG1	THR	X	234	42.613	44.099	54.813	0.00	0.00
ATOM	3539	C	THR	X	234	44.392	47.061	54.776	0.00	0.00
ATOM	3540	O	THR	X	234	45.452	46.454	55.165	0.00	0.00
ATOM	3541	N	VAL	X	235	44.002	48.234	55.270	0.00	0.00
ATOM	3542	H	VAL	X	235	43.184	48.662	54.861	0.00	0.00
ATOM	3543	CA	VAL	X	235	44.585	48.961	56.346	0.00	0.00
ATOM	3544	HA	VAL	X	235	45.208	48.258	56.898	0.00	0.00
ATOM	3545	CB	VAL	X	235	45.586	50.088	55.884	0.00	0.00
ATOM	3546	HB	VAL	X	235	46.004	49.709	54.951	0.00	0.00
ATOM	3547	CG1	VAL	X	235	45.065	51.508	55.450	0.00	0.00
ATOM	3548	HG11	VAL	X	235	44.130	51.592	54.896	0.00	0.00
ATOM	3549	HG12	VAL	X	235	44.899	52.027	56.394	0.00	0.00
ATOM	3550	HG13	VAL	X	235	45.811	52.104	54.923	0.00	0.00
ATOM	3551	CG2	VAL	X	235	46.742	50.325	56.836	0.00	0.00
ATOM	3552	HG21	VAL	X	235	47.358	51.169	56.526	0.00	0.00
ATOM	3553	HG22	VAL	X	235	47.209	49.351	56.987	0.00	0.00
ATOM	3554	HG23	VAL	X	235	46.213	50.501	57.772	0.00	0.00
ATOM	3555	C	VAL	X	235	43.461	49.601	57.277	0.00	0.00
ATOM	3556	O	VAL	X	235	42.376	49.815	56.812	0.00	0.00
ATOM	3557	N	GLY	X	236	43.833	50.043	58.460	0.00	0.00
ATOM	3558	H	GLY	X	236	44.827	49.940	58.610	0.00	0.00
ATOM	3559	CA	GLY	X	236	43.033	50.878	59.400	0.00	0.00
ATOM	3560	HA2	GLY	X	236	41.991	50.574	59.498	0.00	0.00
ATOM	3561	HA3	GLY	X	236	43.398	50.729	60.416	0.00	0.00
ATOM	3562	C	GLY	X	236	43.018	52.415	59.124	0.00	0.00
ATOM	3563	O	GLY	X	236	44.037	53.005	58.720	0.00	0.00
ATOM	3564	N	MET	X	237	41.969	53.135	59.572	0.00	0.00
ATOM	3565	H	MET	X	237	41.255	52.618	60.065	0.00	0.00
ATOM	3566	CA	MET	X	237	41.918	54.634	59.462	0.00	0.00
ATOM	3567	HA	MET	X	237	41.852	54.866	58.399	0.00	0.00
ATOM	3568	CB	MET	X	237	40.626	55.106	60.104	0.00	0.00
ATOM	3569	HB2	MET	X	237	39.749	54.690	59.608	0.00	0.00
ATOM	3570	HB3	MET	X	237	40.613	54.740	61.130	0.00	0.00
ATOM	3571	CG	MET	X	237	40.512	56.644	60.160	0.00	0.00
ATOM	3572	HG2	MET	X	237	39.624	56.969	60.703	0.00	0.00
ATOM	3573	HG3	MET	X	237	41.369	57.016	60.721	0.00	0.00
ATOM	3574	SD	MET	X	237	40.530	57.649	58.699	0.00	0.00
ATOM	3575	CE	MET	X	237	38.811	57.408	58.181	0.00	0.00
ATOM	3576	HE1	MET	X	237	38.145	57.335	59.041	0.00	0.00
ATOM	3577	HE2	MET	X	237	38.483	58.306	57.658	0.00	0.00
ATOM	3578	HE3	MET	X	237	38.718	56.522	57.554	0.00	0.00
ATOM	3579	C	MET	X	237	43.108	55.316	60.067	0.00	0.00
ATOM	3580	O	MET	X	237	43.765	56.130	59.389	0.00	0.00
ATOM	3581	N	GLY	X	238	43.437	54.924	61.265	0.00	0.00
ATOM	3582	H	GLY	X	238	42.847	54.283	61.776	0.00	0.00
ATOM	3583	CA	GLY	X	238	44.595	55.422	61.997	0.00	0.00
ATOM	3584	HA2	GLY	X	238	44.457	56.488	62.177	0.00	0.00
ATOM	3585	HA3	GLY	X	238	44.652	54.879	62.940	0.00	0.00
ATOM	3586	C	GLY	X	238	45.881	55.224	61.267	0.00	0.00
ATOM	3587	O	GLY	X	238	46.703	56.151	61.296	0.00	0.00
ATOM	3588	N	GLU	X	239	46.089	54.165	60.518	0.00	0.00
ATOM	3589	H	GLU	X	239	45.383	53.447	60.432	0.00	0.00
ATOM	3590	CA	GLU	X	239	47.382	53.892	59.804	0.00	0.00
ATOM	3591	HA	GLU	X	239	48.163	54.146	60.521	0.00	0.00
ATOM	3592	CB	GLU	X	239	47.491	52.411	59.394	0.00	0.00
ATOM	3593	HB2	GLU	X	239	46.532	51.894	59.359	0.00	0.00
ATOM	3594	HB3	GLU	X	239	48.060	52.326	58.469	0.00	0.00
ATOM	3595	CG	GLU	X	239	48.407	51.665	60.427	0.00	0.00
ATOM	3596	HG2	GLU	X	239	47.955	51.627	61.418	0.00	0.00

ATOM	3597	HG3	GLU	X	239	48.537	50.644	60.068	0.00	0.00
ATOM	3598	CD	GLU	X	239	49.774	52.244	60.457	0.00	0.00
ATOM	3599	OE1	GLU	X	239	50.135	52.970	61.426	0.00	0.00
ATOM	3600	OE2	GLU	X	239	50.530	52.043	59.477	0.00	0.00
ATOM	3601	C	GLU	X	239	47.486	54.858	58.559	0.00	0.00
ATOM	3602	O	GLU	X	239	48.589	55.405	58.401	0.00	0.00
ATOM	3603	N	ALA	X	240	46.406	54.978	57.731	0.00	0.00
ATOM	3604	H	ALA	X	240	45.657	54.329	57.930	0.00	0.00
ATOM	3605	CA	ALA	X	240	46.460	55.743	56.506	0.00	0.00
ATOM	3606	HA	ALA	X	240	47.313	55.462	55.888	0.00	0.00
ATOM	3607	CB	ALA	X	240	45.274	55.471	55.654	0.00	0.00
ATOM	3608	HB1	ALA	X	240	45.185	54.424	55.364	0.00	0.00
ATOM	3609	HB2	ALA	X	240	45.408	56.229	54.882	0.00	0.00
ATOM	3610	HB3	ALA	X	240	44.368	55.750	56.192	0.00	0.00
ATOM	3611	C	ALA	X	240	46.566	57.225	56.756	0.00	0.00
ATOM	3612	O	ALA	X	240	47.287	57.974	56.083	0.00	0.00
ATOM	3613	N	ARG	X	241	45.955	57.606	57.917	0.00	0.00
ATOM	3614	H	ARG	X	241	45.277	57.008	58.366	0.00	0.00
ATOM	3615	CA	ARG	X	241	46.138	58.957	58.404	0.00	0.00
ATOM	3616	HA	ARG	X	241	45.903	59.719	57.660	0.00	0.00
ATOM	3617	CB	ARG	X	241	45.129	59.140	59.580	0.00	0.00
ATOM	3618	HB2	ARG	X	241	44.109	58.984	59.229	0.00	0.00
ATOM	3619	HB3	ARG	X	241	45.239	58.316	60.284	0.00	0.00
ATOM	3620	CG	ARG	X	241	45.243	60.432	60.278	0.00	0.00
ATOM	3621	HG2	ARG	X	241	46.234	60.878	60.197	0.00	0.00
ATOM	3622	HG3	ARG	X	241	44.524	61.069	59.763	0.00	0.00
ATOM	3623	CD	ARG	X	241	44.995	60.513	61.795	0.00	0.00
ATOM	3624	HD2	ARG	X	241	44.125	59.904	62.042	0.00	0.00
ATOM	3625	HD3	ARG	X	241	45.854	60.170	62.372	0.00	0.00
ATOM	3626	NE	ARG	X	241	44.661	61.881	62.173	0.00	0.00
ATOM	3627	HE	ARG	X	241	44.560	62.506	61.386	0.00	0.00
ATOM	3628	CZ	ARG	X	241	44.151	62.356	63.304	0.00	0.00
ATOM	3629	NH1	ARG	X	241	44.049	61.532	64.318	0.00	0.00
ATOM	3630	HH11	ARG	X	241	44.307	60.565	64.177	0.00	0.00
ATOM	3631	HH12	ARG	X	241	43.649	61.847	65.190	0.00	0.00
ATOM	3632	NH2	ARG	X	241	43.711	63.575	63.379	0.00	0.00
ATOM	3633	HH21	ARG	X	241	43.904	64.250	62.652	0.00	0.00
ATOM	3634	HH22	ARG	X	241	43.140	63.921	64.137	0.00	0.00
ATOM	3635	C	ARG	X	241	47.595	59.115	58.893	0.00	0.00
ATOM	3636	O	ARG	X	241	48.244	60.096	58.569	0.00	0.00
ATOM	3637	N	ARG	X	242	48.254	58.154	59.621	0.00	0.00
ATOM	3638	H	ARG	X	242	47.675	57.334	59.728	0.00	0.00
ATOM	3639	CA	ARG	X	242	49.681	58.164	59.983	0.00	0.00
ATOM	3640	HA	ARG	X	242	49.833	58.971	60.699	0.00	0.00
ATOM	3641	CB	ARG	X	242	50.130	56.946	60.800	0.00	0.00
ATOM	3642	HB2	ARG	X	242	49.386	56.842	61.590	0.00	0.00
ATOM	3643	HB3	ARG	X	242	49.999	56.004	60.267	0.00	0.00
ATOM	3644	CG	ARG	X	242	51.510	56.990	61.436	0.00	0.00
ATOM	3645	HG2	ARG	X	242	52.210	57.400	60.707	0.00	0.00
ATOM	3646	HG3	ARG	X	242	51.370	57.578	62.343	0.00	0.00
ATOM	3647	CD	ARG	X	242	52.021	55.631	61.922	0.00	0.00
ATOM	3648	HD2	ARG	X	242	52.934	55.838	62.480	0.00	0.00
ATOM	3649	HD3	ARG	X	242	51.276	55.241	62.615	0.00	0.00
ATOM	3650	NE	ARG	X	242	52.211	54.671	60.856	0.00	0.00
ATOM	3651	HE	ARG	X	242	51.443	54.027	60.732	0.00	0.00
ATOM	3652	CZ	ARG	X	242	53.143	54.690	59.931	0.00	0.00
ATOM	3653	NH1	ARG	X	242	54.021	55.600	59.816	0.00	0.00
ATOM	3654	HH11	ARG	X	242	54.234	56.252	60.558	0.00	0.00
ATOM	3655	HH12	ARG	X	242	54.651	55.655	59.028	0.00	0.00
ATOM	3656	NH2	ARG	X	242	53.031	53.720	58.997	0.00	0.00
ATOM	3657	HH21	ARG	X	242	52.326	52.999	59.059	0.00	0.00
ATOM	3658	HH22	ARG	X	242	53.703	53.650	58.247	0.00	0.00
ATOM	3659	C	ARG	X	242	50.478	58.423	58.728	0.00	0.00
ATOM	3660	O	ARG	X	242	51.376	59.271	58.679	0.00	0.00
ATOM	3661	N	ARG	X	243	50.235	57.583	57.710	0.00	0.00
ATOM	3662	H	ARG	X	243	49.510	56.892	57.842	0.00	0.00
ATOM	3663	CA	ARG	X	243	50.976	57.543	56.380	0.00	0.00

ATOM	3664	HA	ARG	X	243	52.057	57.563	56.518	0.00	0.00
ATOM	3665	CB	ARG	X	243	50.442	56.351	55.594	0.00	0.00
ATOM	3666	HB2	ARG	X	243	49.373	56.388	55.387	0.00	0.00
ATOM	3667	HB3	ARG	X	243	50.838	56.258	54.582	0.00	0.00
ATOM	3668	CG	ARG	X	243	50.859	55.139	56.345	0.00	0.00
ATOM	3669	HG2	ARG	X	243	51.944	55.140	56.237	0.00	0.00
ATOM	3670	HG3	ARG	X	243	50.665	55.236	57.413	0.00	0.00
ATOM	3671	CD	ARG	X	243	50.167	53.867	55.730	0.00	0.00
ATOM	3672	HD2	ARG	X	243	49.104	54.057	55.581	0.00	0.00
ATOM	3673	HD3	ARG	X	243	50.597	53.678	54.747	0.00	0.00
ATOM	3674	NE	ARG	X	243	50.319	52.723	56.603	0.00	0.00
ATOM	3675	HE	ARG	X	243	50.403	52.815	57.606	0.00	0.00
ATOM	3676	CZ	ARG	X	243	50.320	51.472	56.289	0.00	0.00
ATOM	3677	NH1	ARG	X	243	50.192	51.122	55.017	0.00	0.00
ATOM	3678	HH11	ARG	X	243	50.164	51.873	54.342	0.00	0.00
ATOM	3679	HH12	ARG	X	243	50.189	50.152	54.736	0.00	0.00
ATOM	3680	NH2	ARG	X	243	50.435	50.557	57.190	0.00	0.00
ATOM	3681	HH21	ARG	X	243	50.507	50.746	58.179	0.00	0.00
ATOM	3682	HH22	ARG	X	243	50.547	49.559	57.088	0.00	0.00
ATOM	3683	C	ARG	X	243	50.746	58.910	55.640	0.00	0.00
ATOM	3684	O	ARG	X	243	51.749	59.468	55.105	0.00	0.00
ATOM	3685	N	ALA	X	244	49.582	59.568	55.854	0.00	0.00
ATOM	3686	H	ALA	X	244	48.811	59.264	56.431	0.00	0.00
ATOM	3687	CA	ALA	X	244	49.316	60.966	55.441	0.00	0.00
ATOM	3688	HA	ALA	X	244	49.545	61.128	54.387	0.00	0.00
ATOM	3689	CB	ALA	X	244	47.816	61.344	55.795	0.00	0.00
ATOM	3690	HB1	ALA	X	244	47.698	62.379	55.475	0.00	0.00
ATOM	3691	HB2	ALA	X	244	47.533	61.122	56.824	0.00	0.00
ATOM	3692	HB3	ALA	X	244	47.236	60.597	55.254	0.00	0.00
ATOM	3693	C	ALA	X	244	50.295	61.912	56.181	0.00	0.00
ATOM	3694	O	ALA	X	244	51.028	62.598	55.544	0.00	0.00
ATOM	3695	N	THR	X	245	50.390	61.970	57.519	0.00	0.00
ATOM	3696	H	THR	X	245	49.605	61.554	57.999	0.00	0.00
ATOM	3697	CA	THR	X	245	51.200	62.877	58.318	0.00	0.00
ATOM	3698	HA	THR	X	245	50.962	63.912	58.070	0.00	0.00
ATOM	3699	CB	THR	X	245	50.765	62.697	59.813	0.00	0.00
ATOM	3700	HB	THR	X	245	51.028	61.734	60.250	0.00	0.00
ATOM	3701	CG2	THR	X	245	51.059	63.799	60.788	0.00	0.00
ATOM	3702	HG21	THR	X	245	52.137	63.961	60.818	0.00	0.00
ATOM	3703	HG22	THR	X	245	50.686	63.567	61.786	0.00	0.00
ATOM	3704	HG23	THR	X	245	50.602	64.750	60.514	0.00	0.00
ATOM	3705	OG1	THR	X	245	49.362	62.724	59.885	0.00	0.00
ATOM	3706	HG1	THR	X	245	49.193	62.447	60.788	0.00	0.00
ATOM	3707	C	THR	X	245	52.727	62.678	58.281	0.00	0.00
ATOM	3708	O	THR	X	245	53.394	63.684	58.198	0.00	0.00
ATOM	3709	N	GLN	X	246	53.167	61.446	58.251	0.00	0.00
ATOM	3710	H	GLN	X	246	52.561	60.640	58.302	0.00	0.00
ATOM	3711	CA	GLN	X	246	54.577	61.175	57.973	0.00	0.00
ATOM	3712	HA	GLN	X	246	55.215	61.758	58.637	0.00	0.00
ATOM	3713	CB	GLN	X	246	54.769	59.586	58.263	0.00	0.00
ATOM	3714	HB2	GLN	X	246	54.690	59.433	59.339	0.00	0.00
ATOM	3715	HB3	GLN	X	246	53.986	59.021	57.756	0.00	0.00
ATOM	3716	CG	GLN	X	246	56.137	59.053	57.787	0.00	0.00
ATOM	3717	HG2	GLN	X	246	56.201	59.126	56.701	0.00	0.00
ATOM	3718	HG3	GLN	X	246	56.902	59.587	58.350	0.00	0.00
ATOM	3719	CD	GLN	X	246	56.269	57.573	58.208	0.00	0.00
ATOM	3720	OE1	GLN	X	246	55.540	56.738	57.693	0.00	0.00
ATOM	3721	NE2	GLN	X	246	57.052	57.170	59.138	0.00	0.00
ATOM	3722	HE21	GLN	X	246	57.045	56.220	59.482	0.00	0.00
ATOM	3723	HE22	GLN	X	246	57.784	57.810	59.408	0.00	0.00
ATOM	3724	C	GLN	X	246	54.904	61.657	56.547	0.00	0.00
ATOM	3725	O	GLN	X	246	55.726	62.569	56.369	0.00	0.00
ATOM	3726	N	LEU	X	247	54.217	61.186	55.442	0.00	0.00
ATOM	3727	H	LEU	X	247	53.552	60.434	55.552	0.00	0.00
ATOM	3728	CA	LEU	X	247	54.311	61.910	54.069	0.00	0.00
ATOM	3729	HA	LEU	X	247	55.281	61.657	53.640	0.00	0.00
ATOM	3730	CB	LEU	X	247	53.256	61.328	53.070	0.00	0.00

ATOM	3731	HB2	LEU	X	247	53.496	60.266	53.122	0.00	0.00
ATOM	3732	HB3	LEU	X	247	52.285	61.430	53.555	0.00	0.00
ATOM	3733	CG	LEU	X	247	53.194	61.867	51.645	0.00	0.00
ATOM	3734	HG	LEU	X	247	52.991	62.923	51.823	0.00	0.00
ATOM	3735	CD1	LEU	X	247	54.494	61.608	50.887	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.285	61.876	51.586	0.00	0.00
ATOM	3737	HD12	LEU	X	247	54.528	62.223	49.987	0.00	0.00
ATOM	3738	HD13	LEU	X	247	54.631	60.569	50.585	0.00	0.00
ATOM	3739	CD2	LEU	X	247	51.961	61.204	50.969	0.00	0.00
ATOM	3740	HD21	LEU	X	247	51.047	61.742	51.221	0.00	0.00
ATOM	3741	HD22	LEU	X	247	52.077	61.255	49.886	0.00	0.00
ATOM	3742	HD23	LEU	X	247	51.854	60.146	51.206	0.00	0.00
ATOM	3743	C	LEU	X	247	54.296	63.468	54.165	0.00	0.00
ATOM	3744	O	LEU	X	247	55.207	64.068	53.551	0.00	0.00
ATOM	3745	N	ALA	X	248	53.309	64.105	54.818	0.00	0.00
ATOM	3746	H	ALA	X	248	52.588	63.538	55.240	0.00	0.00
ATOM	3747	CA	ALA	X	248	53.211	65.536	54.919	0.00	0.00
ATOM	3748	HA	ALA	X	248	53.190	65.914	53.897	0.00	0.00
ATOM	3749	CB	ALA	X	248	51.884	65.885	55.623	0.00	0.00
ATOM	3750	HB1	ALA	X	248	51.103	65.341	55.091	0.00	0.00
ATOM	3751	HB2	ALA	X	248	51.676	66.955	55.620	0.00	0.00
ATOM	3752	HB3	ALA	X	248	51.943	65.613	56.677	0.00	0.00
ATOM	3753	C	ALA	X	248	54.473	66.137	55.577	0.00	0.00
ATOM	3754	O	ALA	X	248	54.834	67.212	55.089	0.00	0.00
ATOM	3755	N	HIE	X	249	55.160	65.574	56.549	0.00	0.00
ATOM	3756	H	HIE	X	249	54.856	64.640	56.781	0.00	0.00
ATOM	3757	CA	HIE	X	249	56.422	66.059	57.093	0.00	0.00
ATOM	3758	HA	HIE	X	249	56.297	67.080	57.452	0.00	0.00
ATOM	3759	CB	HIE	X	249	56.882	65.211	58.355	0.00	0.00
ATOM	3760	HB2	HIE	X	249	56.249	65.665	59.118	0.00	0.00
ATOM	3761	HB3	HIE	X	249	56.642	64.195	58.040	0.00	0.00
ATOM	3762	CG	HIE	X	249	58.269	65.434	58.863	0.00	0.00
ATOM	3763	ND1	HIE	X	249	58.565	65.616	60.253	0.00	0.00
ATOM	3764	CE1	HIE	X	249	59.913	65.681	60.388	0.00	0.00
ATOM	3765	HE1	HIE	X	249	60.498	65.809	61.287	0.00	0.00
ATOM	3766	NE2	HIE	X	249	60.472	65.518	59.187	0.00	0.00
ATOM	3767	HE2	HIE	X	249	61.475	65.499	59.072	0.00	0.00
ATOM	3768	CD2	HIE	X	249	59.501	65.310	58.272	0.00	0.00
ATOM	3769	HD2	HIE	X	249	59.679	65.185	57.214	0.00	0.00
ATOM	3770	C	HIE	X	249	57.576	66.244	56.076	0.00	0.00
ATOM	3771	O	HIE	X	249	58.312	67.237	56.068	0.00	0.00
ATOM	3772	N	LEU	X	250	57.726	65.270	55.237	0.00	0.00
ATOM	3773	H	LEU	X	250	57.036	64.533	55.228	0.00	0.00
ATOM	3774	CA	LEU	X	250	58.696	65.277	54.106	0.00	0.00
ATOM	3775	HA	LEU	X	250	59.695	65.619	54.379	0.00	0.00
ATOM	3776	CB	LEU	X	250	58.949	63.779	53.641	0.00	0.00
ATOM	3777	HB2	LEU	X	250	59.521	63.297	54.435	0.00	0.00
ATOM	3778	HB3	LEU	X	250	57.992	63.259	53.675	0.00	0.00
ATOM	3779	CG	LEU	X	250	59.825	63.562	52.327	0.00	0.00
ATOM	3780	HG	LEU	X	250	59.441	64.084	51.451	0.00	0.00
ATOM	3781	CD1	LEU	X	250	61.205	64.229	52.588	0.00	0.00
ATOM	3782	HD11	LEU	X	250	61.852	64.028	51.734	0.00	0.00
ATOM	3783	HD12	LEU	X	250	61.636	63.817	53.501	0.00	0.00
ATOM	3784	HD13	LEU	X	250	61.161	65.301	52.779	0.00	0.00
ATOM	3785	CD2	LEU	X	250	59.885	62.029	52.054	0.00	0.00
ATOM	3786	HD21	LEU	X	250	58.886	61.596	52.106	0.00	0.00
ATOM	3787	HD22	LEU	X	250	60.297	61.905	51.053	0.00	0.00
ATOM	3788	HD23	LEU	X	250	60.595	61.518	52.704	0.00	0.00
ATOM	3789	C	LEU	X	250	58.220	66.037	52.894	0.00	0.00
ATOM	3790	O	LEU	X	250	59.061	66.712	52.326	0.00	0.00
ATOM	3791	N	VAL	X	251	56.931	65.969	52.584	0.00	0.00
ATOM	3792	H	VAL	X	251	56.343	65.258	52.994	0.00	0.00
ATOM	3793	CA	VAL	X	251	56.397	66.810	51.512	0.00	0.00
ATOM	3794	HA	VAL	X	251	56.922	66.553	50.592	0.00	0.00
ATOM	3795	CB	VAL	X	251	54.908	66.468	51.180	0.00	0.00
ATOM	3796	HB	VAL	X	251	54.306	66.239	52.059	0.00	0.00
ATOM	3797	CG1	VAL	X	251	54.198	67.635	50.375	0.00	0.00

ATOM	3798	HG11	VAL	X	251	53.183	67.330	50.118	0.00	0.00
ATOM	3799	HG12	VAL	X	251	54.058	68.539	50.968	0.00	0.00
ATOM	3800	HG13	VAL	X	251	54.746	67.903	49.471	0.00	0.00
ATOM	3801	CG2	VAL	X	251	54.660	65.193	50.233	0.00	0.00
ATOM	3802	HG21	VAL	X	251	55.302	64.403	50.622	0.00	0.00
ATOM	3803	HG22	VAL	X	251	55.099	65.392	49.255	0.00	0.00
ATOM	3804	HG23	VAL	X	251	53.635	64.825	50.180	0.00	0.00
ATOM	3805	C	VAL	X	251	56.538	68.340	51.770	0.00	0.00
ATOM	3806	O	VAL	X	251	56.762	69.127	50.835	0.00	0.00
ATOM	3807	N	GLY	X	252	56.345	68.751	53.033	0.00	0.00
ATOM	3808	H	GLY	X	252	56.086	68.035	53.696	0.00	0.00
ATOM	3809	CA	GLY	X	252	56.288	70.141	53.471	0.00	0.00
ATOM	3810	HA2	GLY	X	252	56.660	70.205	54.494	0.00	0.00
ATOM	3811	HA3	GLY	X	252	56.770	70.706	52.674	0.00	0.00
ATOM	3812	C	GLY	X	252	54.814	70.605	53.623	0.00	0.00
ATOM	3813	O	GLY	X	252	54.386	71.669	53.071	0.00	0.00
ATOM	3814	N	CYX	X	253	53.905	69.846	54.295	0.00	0.00
ATOM	3815	H	CYX	X	253	54.223	68.950	54.636	0.00	0.00
ATOM	3816	CA	CYX	X	253	52.447	70.265	54.536	0.00	0.00
ATOM	3817	HA	CYX	X	253	52.341	71.322	54.293	0.00	0.00
ATOM	3818	CB	CYX	X	253	51.562	69.491	53.547	0.00	0.00
ATOM	3819	HB2	CYX	X	253	51.792	68.426	53.574	0.00	0.00
ATOM	3820	HB3	CYX	X	253	50.512	69.548	53.836	0.00	0.00
ATOM	3821	SG	CYX	X	253	51.560	70.141	51.813	0.00	0.00
ATOM	3822	C	CYX	X	253	52.012	70.085	56.027	0.00	0.00
ATOM	3823	O	CYX	X	253	52.247	69.089	56.668	0.00	0.00
ATOM	3824	N	PRO	X	254	51.259	71.093	56.574	0.00	0.00
ATOM	3825	CD	PRO	X	254	50.483	70.860	57.722	0.00	0.00
ATOM	3826	HD2	PRO	X	254	51.214	70.737	58.521	0.00	0.00
ATOM	3827	HD3	PRO	X	254	49.823	70.008	57.562	0.00	0.00
ATOM	3828	CG	PRO	X	254	49.653	72.049	58.026	0.00	0.00
ATOM	3829	HG2	PRO	X	254	49.616	72.248	59.098	0.00	0.00
ATOM	3830	HG3	PRO	X	254	48.611	71.861	57.766	0.00	0.00
ATOM	3831	CB	PRO	X	254	50.197	73.121	57.182	0.00	0.00
ATOM	3832	HB2	PRO	X	254	50.779	73.712	57.889	0.00	0.00
ATOM	3833	HB3	PRO	X	254	49.415	73.673	56.660	0.00	0.00
ATOM	3834	CA	PRO	X	254	51.118	72.478	56.087	0.00	0.00
ATOM	3835	HA	PRO	X	254	50.615	72.447	55.120	0.00	0.00
ATOM	3836	C	PRO	X	254	52.439	73.198	55.876	0.00	0.00
ATOM	3837	O	PRO	X	254	53.451	72.683	56.286	0.00	0.00
ATOM	3838	N	PRO	X	255	52.417	74.285	55.154	0.00	0.00
ATOM	3839	CD	PRO	X	255	51.231	75.124	54.742	0.00	0.00
ATOM	3840	HD2	PRO	X	255	50.521	75.134	55.569	0.00	0.00
ATOM	3841	HD3	PRO	X	255	50.817	74.650	53.852	0.00	0.00
ATOM	3842	CG	PRO	X	255	51.730	76.553	54.350	0.00	0.00
ATOM	3843	HG2	PRO	X	255	51.747	77.157	55.257	0.00	0.00
ATOM	3844	HG3	PRO	X	255	51.161	76.979	53.524	0.00	0.00
ATOM	3845	CB	PRO	X	255	53.145	76.155	53.891	0.00	0.00
ATOM	3846	HB2	PRO	X	255	53.899	76.941	53.921	0.00	0.00
ATOM	3847	HB3	PRO	X	255	53.152	75.570	52.971	0.00	0.00
ATOM	3848	CA	PRO	X	255	53.654	75.121	54.915	0.00	0.00
ATOM	3849	HA	PRO	X	255	54.368	74.436	54.458	0.00	0.00
ATOM	3850	C	PRO	X	255	54.228	75.734	56.241	0.00	0.00
ATOM	3851	O	PRO	X	255	53.386	76.194	57.078	0.00	0.00
ATOM	3852	N	GLY	X	256	55.575	75.665	56.414	0.00	0.00
ATOM	3853	H	GLY	X	256	56.164	75.342	55.661	0.00	0.00
ATOM	3854	CA	GLY	X	256	56.263	75.974	57.677	0.00	0.00
ATOM	3855	HA2	GLY	X	256	57.336	76.012	57.487	0.00	0.00
ATOM	3856	HA3	GLY	X	256	55.895	76.907	58.104	0.00	0.00
ATOM	3857	C	GLY	X	256	56.113	74.892	58.800	0.00	0.00
ATOM	3858	O	GLY	X	256	56.810	73.878	58.797	0.00	0.00
ATOM	3859	N	GLY	X	257	55.133	75.069	59.698	0.00	0.00
ATOM	3860	H	GLY	X	257	54.459	75.818	59.630	0.00	0.00
ATOM	3861	CA	GLY	X	257	54.831	74.077	60.709	0.00	0.00
ATOM	3862	HA2	GLY	X	257	55.730	73.710	61.203	0.00	0.00
ATOM	3863	HA3	GLY	X	257	54.156	74.530	61.436	0.00	0.00
ATOM	3864	C	GLY	X	257	54.198	72.879	60.081	0.00	0.00

ATOM	3865	O	GLY	X	257	53.013	72.903	59.917	0.00	0.00
ATOM	3866	N	THR	X	258	54.934	71.808	59.740	0.00	0.00
ATOM	3867	H	THR	X	258	55.926	71.894	59.913	0.00	0.00
ATOM	3868	CA	THR	X	258	54.387	70.509	59.187	0.00	0.00
ATOM	3869	HA	THR	X	258	53.835	70.722	58.271	0.00	0.00
ATOM	3870	CB	THR	X	258	55.510	69.532	58.788	0.00	0.00
ATOM	3871	HB	THR	X	258	55.024	68.626	58.426	0.00	0.00
ATOM	3872	CG2	THR	X	258	56.283	70.000	57.590	0.00	0.00
ATOM	3873	HG21	THR	X	258	55.929	69.665	56.616	0.00	0.00
ATOM	3874	HG22	THR	X	258	57.277	69.553	57.631	0.00	0.00
ATOM	3875	HG23	THR	X	258	56.369	71.085	57.643	0.00	0.00
ATOM	3876	OG1	THR	X	258	56.406	69.270	59.855	0.00	0.00
ATOM	3877	HG1	THR	X	258	56.996	70.027	59.862	0.00	0.00
ATOM	3878	C	THR	X	258	53.509	69.675	60.139	0.00	0.00
ATOM	3879	O	THR	X	258	53.464	69.883	61.363	0.00	0.00
ATOM	3880	N	GLY	X	259	52.919	68.669	59.566	0.00	0.00
ATOM	3881	H	GLY	X	259	52.831	68.712	58.561	0.00	0.00
ATOM	3882	CA	GLY	X	259	52.148	67.661	60.211	0.00	0.00
ATOM	3883	HA2	GLY	X	259	51.870	66.844	59.546	0.00	0.00
ATOM	3884	HA3	GLY	X	259	52.666	67.383	61.129	0.00	0.00
ATOM	3885	C	GLY	X	259	50.820	68.300	60.566	0.00	0.00
ATOM	3886	O	GLY	X	259	50.022	68.618	59.683	0.00	0.00
ATOM	3887	N	GLY	X	260	50.518	68.556	61.840	0.00	0.00
ATOM	3888	H	GLY	X	260	51.127	68.103	62.506	0.00	0.00
ATOM	3889	CA	GLY	X	260	49.478	69.533	62.229	0.00	0.00
ATOM	3890	HA2	GLY	X	260	49.393	69.684	63.305	0.00	0.00
ATOM	3891	HA3	GLY	X	260	49.724	70.451	61.695	0.00	0.00
ATOM	3892	C	GLY	X	260	48.042	69.140	61.889	0.00	0.00
ATOM	3893	O	GLY	X	260	47.614	67.957	61.948	0.00	0.00
ATOM	3894	N	ASN	X	261	47.286	70.092	61.440	0.00	0.00
ATOM	3895	H	ASN	X	261	47.668	71.027	61.408	0.00	0.00
ATOM	3896	CA	ASN	X	261	45.896	69.861	61.248	0.00	0.00
ATOM	3897	HA	ASN	X	261	45.568	69.144	62.001	0.00	0.00
ATOM	3898	CB	ASN	X	261	45.217	71.247	61.439	0.00	0.00
ATOM	3899	HB2	ASN	X	261	45.414	71.799	62.359	0.00	0.00
ATOM	3900	HB3	ASN	X	261	45.404	71.840	60.544	0.00	0.00
ATOM	3901	CG	ASN	X	261	43.706	71.046	61.434	0.00	0.00
ATOM	3902	OD1	ASN	X	261	43.123	71.416	60.433	0.00	0.00
ATOM	3903	ND2	ASN	X	261	43.023	70.360	62.337	0.00	0.00
ATOM	3904	HD21	ASN	X	261	42.016	70.276	62.349	0.00	0.00
ATOM	3905	HD22	ASN	X	261	43.473	69.793	63.042	0.00	0.00
ATOM	3906	C	ASN	X	261	45.640	69.191	59.926	0.00	0.00
ATOM	3907	O	ASN	X	261	46.084	69.734	58.895	0.00	0.00
ATOM	3908	N	ASP	X	262	44.864	68.119	59.902	0.00	0.00
ATOM	3909	H	ASP	X	262	44.623	67.738	60.806	0.00	0.00
ATOM	3910	CA	ASP	X	262	44.408	67.334	58.806	0.00	0.00
ATOM	3911	HA	ASP	X	262	45.198	66.729	58.362	0.00	0.00
ATOM	3912	CB	ASP	X	262	43.469	66.222	59.319	0.00	0.00
ATOM	3913	HB2	ASP	X	262	42.562	66.754	59.604	0.00	0.00
ATOM	3914	HB3	ASP	X	262	43.237	65.572	58.475	0.00	0.00
ATOM	3915	CG	ASP	X	262	43.975	65.384	60.526	0.00	0.00
ATOM	3916	OD1	ASP	X	262	44.608	64.365	60.405	0.00	0.00
ATOM	3917	OD2	ASP	X	262	43.758	65.807	61.717	0.00	0.00
ATOM	3918	C	ASP	X	262	43.719	68.124	57.711	0.00	0.00
ATOM	3919	O	ASP	X	262	44.030	67.820	56.551	0.00	0.00
ATOM	3920	N	THR	X	263	42.916	69.208	58.026	0.00	0.00
ATOM	3921	H	THR	X	263	42.789	69.387	59.012	0.00	0.00
ATOM	3922	CA	THR	X	263	42.294	70.081	56.976	0.00	0.00
ATOM	3923	HA	THR	X	263	41.729	69.540	56.216	0.00	0.00
ATOM	3924	CB	THR	X	263	41.184	70.980	57.604	0.00	0.00
ATOM	3925	HB	THR	X	263	41.718	71.650	58.278	0.00	0.00
ATOM	3926	CG2	THR	X	263	40.276	71.785	56.684	0.00	0.00
ATOM	3927	HG21	THR	X	263	40.824	72.538	56.117	0.00	0.00
ATOM	3928	HG22	THR	X	263	39.508	72.234	57.314	0.00	0.00
ATOM	3929	HG23	THR	X	263	39.964	71.054	55.937	0.00	0.00
ATOM	3930	OG1	THR	X	263	40.299	70.101	58.303	0.00	0.00
ATOM	3931	HG1	THR	X	263	40.218	70.551	59.148	0.00	0.00

ATOM	3932	C	THR	X	263	43.286	70.903	56.132	0.00	0.00
ATOM	3933	O	THR	X	263	43.298	70.950	54.896	0.00	0.00
ATOM	3934	N	GLU	X	264	44.106	71.547	56.968	0.00	0.00
ATOM	3935	H	GLU	X	264	44.014	71.467	57.970	0.00	0.00
ATOM	3936	CA	GLU	X	264	45.247	72.308	56.505	0.00	0.00
ATOM	3937	HA	GLU	X	264	45.003	73.208	55.940	0.00	0.00
ATOM	3938	CB	GLU	X	264	45.947	72.951	57.681	0.00	0.00
ATOM	3939	HB2	GLU	X	264	46.258	72.178	58.384	0.00	0.00
ATOM	3940	HB3	GLU	X	264	46.717	73.611	57.284	0.00	0.00
ATOM	3941	CG	GLU	X	264	45.182	74.039	58.450	0.00	0.00
ATOM	3942	HG2	GLU	X	264	44.366	73.483	58.911	0.00	0.00
ATOM	3943	HG3	GLU	X	264	45.749	74.500	59.259	0.00	0.00
ATOM	3944	CD	GLU	X	264	44.674	75.156	57.587	0.00	0.00
ATOM	3945	OE1	GLU	X	264	43.607	75.054	56.932	0.00	0.00
ATOM	3946	OE2	GLU	X	264	45.435	76.142	57.609	0.00	0.00
ATOM	3947	C	GLU	X	264	46.258	71.484	55.677	0.00	0.00
ATOM	3948	O	GLU	X	264	46.558	71.813	54.548	0.00	0.00
ATOM	3949	N	LEU	X	265	46.768	70.364	56.247	0.00	0.00
ATOM	3950	H	LEU	X	265	46.623	70.266	57.242	0.00	0.00
ATOM	3951	CA	LEU	X	265	47.581	69.335	55.672	0.00	0.00
ATOM	3952	HA	LEU	X	265	48.596	69.695	55.507	0.00	0.00
ATOM	3953	CB	LEU	X	265	47.627	68.164	56.677	0.00	0.00
ATOM	3954	HB2	LEU	X	265	47.885	68.414	57.706	0.00	0.00
ATOM	3955	HB3	LEU	X	265	46.614	67.769	56.599	0.00	0.00
ATOM	3956	CG	LEU	X	265	48.520	66.937	56.350	0.00	0.00
ATOM	3957	HG	LEU	X	265	49.535	67.268	56.130	0.00	0.00
ATOM	3958	CD1	LEU	X	265	48.643	66.022	57.510	0.00	0.00
ATOM	3959	HD11	LEU	X	265	48.917	66.664	58.347	0.00	0.00
ATOM	3960	HD12	LEU	X	265	49.380	65.235	57.351	0.00	0.00
ATOM	3961	HD13	LEU	X	265	47.676	65.539	57.654	0.00	0.00
ATOM	3962	CD2	LEU	X	265	48.073	66.007	55.154	0.00	0.00
ATOM	3963	HD21	LEU	X	265	48.062	66.579	54.226	0.00	0.00
ATOM	3964	HD22	LEU	X	265	48.790	65.194	55.040	0.00	0.00
ATOM	3965	HD23	LEU	X	265	47.126	65.575	55.477	0.00	0.00
ATOM	3966	C	LEU	X	265	47.074	69.038	54.261	0.00	0.00
ATOM	3967	O	LEU	X	265	47.859	69.211	53.341	0.00	0.00
ATOM	3968	N	VAL	X	266	45.797	68.593	54.180	0.00	0.00
ATOM	3969	H	VAL	X	266	45.268	68.586	55.040	0.00	0.00
ATOM	3970	CA	VAL	X	266	45.286	68.082	52.898	0.00	0.00
ATOM	3971	HA	VAL	X	266	46.086	67.484	52.462	0.00	0.00
ATOM	3972	CB	VAL	X	266	44.202	67.051	53.145	0.00	0.00
ATOM	3973	HB	VAL	X	266	44.576	66.528	54.025	0.00	0.00
ATOM	3974	CG1	VAL	X	266	42.872	67.639	53.425	0.00	0.00
ATOM	3975	HG11	VAL	X	266	42.273	67.963	52.574	0.00	0.00
ATOM	3976	HG12	VAL	X	266	42.295	66.944	54.035	0.00	0.00
ATOM	3977	HG13	VAL	X	266	42.906	68.579	53.977	0.00	0.00
ATOM	3978	CG2	VAL	X	266	44.093	66.061	52.030	0.00	0.00
ATOM	3979	HG21	VAL	X	266	43.413	65.239	52.258	0.00	0.00
ATOM	3980	HG22	VAL	X	266	45.066	65.596	51.873	0.00	0.00
ATOM	3981	HG23	VAL	X	266	43.788	66.530	51.094	0.00	0.00
ATOM	3982	C	VAL	X	266	44.823	69.177	51.925	0.00	0.00
ATOM	3983	O	VAL	X	266	44.749	68.867	50.722	0.00	0.00
ATOM	3984	N	ALA	X	267	44.479	70.413	52.354	0.00	0.00
ATOM	3985	H	ALA	X	267	44.464	70.570	53.352	0.00	0.00
ATOM	3986	CA	ALA	X	267	44.415	71.586	51.529	0.00	0.00
ATOM	3987	HA	ALA	X	267	43.772	71.442	50.661	0.00	0.00
ATOM	3988	CB	ALA	X	267	44.036	72.793	52.394	0.00	0.00
ATOM	3989	HB1	ALA	X	267	44.826	73.055	53.098	0.00	0.00
ATOM	3990	HB2	ALA	X	267	43.095	72.610	52.912	0.00	0.00
ATOM	3991	HB3	ALA	X	267	43.897	73.663	51.752	0.00	0.00
ATOM	3992	C	ALA	X	267	45.773	71.853	50.839	0.00	0.00
ATOM	3993	O	ALA	X	267	45.904	72.010	49.618	0.00	0.00
ATOM	3994	N	CYX	X	268	46.903	71.803	51.593	0.00	0.00
ATOM	3995	H	CYX	X	268	46.783	71.841	52.595	0.00	0.00
ATOM	3996	CA	CYX	X	268	48.286	71.726	51.078	0.00	0.00
ATOM	3997	HA	CYX	X	268	48.413	72.585	50.419	0.00	0.00
ATOM	3998	CB	CYX	X	268	49.264	72.038	52.224	0.00	0.00

ATOM	3999	HB2	CYX	X	268	48.910	72.993	52.612	0.00	0.00
ATOM	4000	HB3	CYX	X	268	49.153	71.262	52.981	0.00	0.00
ATOM	4001	SG	CYX	X	268	51.078	72.087	51.966	0.00	0.00
ATOM	4002	C	CYX	X	268	48.629	70.504	50.225	0.00	0.00
ATOM	4003	O	CYX	X	268	49.067	70.750	49.135	0.00	0.00
ATOM	4004	N	LEU	X	269	48.204	69.303	50.585	0.00	0.00
ATOM	4005	H	LEU	X	269	47.769	69.143	51.482	0.00	0.00
ATOM	4006	CA	LEU	X	269	48.428	68.105	49.743	0.00	0.00
ATOM	4007	HA	LEU	X	269	49.443	68.187	49.355	0.00	0.00
ATOM	4008	CB	LEU	X	269	48.138	66.799	50.615	0.00	0.00
ATOM	4009	HB2	LEU	X	269	48.017	67.028	51.674	0.00	0.00
ATOM	4010	HB3	LEU	X	269	47.163	66.332	50.477	0.00	0.00
ATOM	4011	CG	LEU	X	269	49.199	65.728	50.463	0.00	0.00
ATOM	4012	HG	LEU	X	269	49.403	65.437	49.432	0.00	0.00
ATOM	4013	CD1	LEU	X	269	50.518	66.268	51.172	0.00	0.00
ATOM	4014	HD11	LEU	X	269	50.673	67.347	51.190	0.00	0.00
ATOM	4015	HD12	LEU	X	269	51.379	65.663	50.888	0.00	0.00
ATOM	4016	HD13	LEU	X	269	50.427	66.109	52.247	0.00	0.00
ATOM	4017	CD2	LEU	X	269	48.816	64.456	51.323	0.00	0.00
ATOM	4018	HD21	LEU	X	269	48.838	64.676	52.391	0.00	0.00
ATOM	4019	HD22	LEU	X	269	47.851	64.054	51.014	0.00	0.00
ATOM	4020	HD23	LEU	X	269	49.522	63.669	51.060	0.00	0.00
ATOM	4021	C	LEU	X	269	47.617	68.053	48.438	0.00	0.00
ATOM	4022	O	LEU	X	269	47.995	67.390	47.463	0.00	0.00
ATOM	4023	N	ARG	X	270	46.588	68.990	48.401	0.00	0.00
ATOM	4024	H	ARG	X	270	46.353	69.434	49.277	0.00	0.00
ATOM	4025	CA	ARG	X	270	45.918	69.415	47.234	0.00	0.00
ATOM	4026	HA	ARG	X	270	45.881	68.568	46.550	0.00	0.00
ATOM	4027	CB	ARG	X	270	44.337	69.615	47.539	0.00	0.00
ATOM	4028	HB2	ARG	X	270	44.305	69.900	48.591	0.00	0.00
ATOM	4029	HB3	ARG	X	270	43.968	70.412	46.894	0.00	0.00
ATOM	4030	CG	ARG	X	270	43.491	68.378	47.172	0.00	0.00
ATOM	4031	HG2	ARG	X	270	43.725	68.187	46.125	0.00	0.00
ATOM	4032	HG3	ARG	X	270	43.788	67.519	47.774	0.00	0.00
ATOM	4033	CD	ARG	X	270	42.000	68.564	47.256	0.00	0.00
ATOM	4034	HD2	ARG	X	270	41.673	69.433	46.686	0.00	0.00
ATOM	4035	HD3	ARG	X	270	41.446	67.738	46.811	0.00	0.00
ATOM	4036	NE	ARG	X	270	41.575	68.655	48.701	0.00	0.00
ATOM	4037	HE	ARG	X	270	41.400	69.576	49.076	0.00	0.00
ATOM	4038	CZ	ARG	X	270	41.038	67.706	49.426	0.00	0.00
ATOM	4039	NH1	ARG	X	270	40.951	66.466	49.085	0.00	0.00
ATOM	4040	HH11	ARG	X	270	41.230	66.177	48.158	0.00	0.00
ATOM	4041	HH12	ARG	X	270	40.427	65.847	49.687	0.00	0.00
ATOM	4042	NH2	ARG	X	270	40.632	67.965	50.657	0.00	0.00
ATOM	4043	HH21	ARG	X	270	40.797	68.838	51.138	0.00	0.00
ATOM	4044	HH22	ARG	X	270	40.307	67.316	51.360	0.00	0.00
ATOM	4045	C	ARG	X	270	46.551	70.582	46.400	0.00	0.00
ATOM	4046	O	ARG	X	270	46.278	70.844	45.203	0.00	0.00
ATOM	4047	N	THR	X	271	47.437	71.305	47.115	0.00	0.00
ATOM	4048	H	THR	X	271	47.425	71.134	48.111	0.00	0.00
ATOM	4049	CA	THR	X	271	48.003	72.590	46.658	0.00	0.00
ATOM	4050	HA	THR	X	271	47.525	72.976	45.757	0.00	0.00
ATOM	4051	CB	THR	X	271	48.079	73.669	47.707	0.00	0.00
ATOM	4052	HB	THR	X	271	48.574	73.396	48.639	0.00	0.00
ATOM	4053	CG2	THR	X	271	48.552	75.027	47.175	0.00	0.00
ATOM	4054	HG21	THR	X	271	48.114	75.326	46.223	0.00	0.00
ATOM	4055	HG22	THR	X	271	49.638	75.045	47.078	0.00	0.00
ATOM	4056	HG23	THR	X	271	48.236	75.769	47.908	0.00	0.00
ATOM	4057	OG1	THR	X	271	46.743	73.882	48.061	0.00	0.00
ATOM	4058	HG1	THR	X	271	46.466	73.119	48.573	0.00	0.00
ATOM	4059	C	THR	X	271	49.505	72.401	46.153	0.00	0.00
ATOM	4060	O	THR	X	271	49.931	73.114	45.285	0.00	0.00
ATOM	4061	N	ARG	X	272	50.240	71.455	46.702	0.00	0.00
ATOM	4062	H	ARG	X	272	49.909	71.058	47.569	0.00	0.00
ATOM	4063	CA	ARG	X	272	51.385	70.997	46.040	0.00	0.00
ATOM	4064	HA	ARG	X	272	51.997	71.844	45.729	0.00	0.00
ATOM	4065	CB	ARG	X	272	52.269	70.104	46.925	0.00	0.00

ATOM	4066	HB2	ARG	X	272	51.688	69.201	47.112	0.00	0.00
ATOM	4067	HB3	ARG	X	272	53.184	69.925	46.360	0.00	0.00
ATOM	4068	CG	ARG	X	272	52.735	70.781	48.218	0.00	0.00
ATOM	4069	HG2	ARG	X	272	51.890	70.629	48.891	0.00	0.00
ATOM	4070	HG3	ARG	X	272	53.594	70.225	48.594	0.00	0.00
ATOM	4071	CD	ARG	X	272	53.143	72.273	48.160	0.00	0.00
ATOM	4072	HD2	ARG	X	272	54.017	72.420	47.525	0.00	0.00
ATOM	4073	HD3	ARG	X	272	52.302	72.811	47.723	0.00	0.00
ATOM	4074	NE	ARG	X	272	53.426	72.698	49.536	0.00	0.00
ATOM	4075	HE	ARG	X	272	53.476	71.989	50.253	0.00	0.00
ATOM	4076	CZ	ARG	X	272	53.822	73.902	49.915	0.00	0.00
ATOM	4077	NH1	ARG	X	272	53.991	74.904	49.083	0.00	0.00
ATOM	4078	HH11	ARG	X	272	53.550	74.820	48.178	0.00	0.00
ATOM	4079	HH12	ARG	X	272	54.286	75.797	49.449	0.00	0.00
ATOM	4080	NH2	ARG	X	272	54.139	74.077	51.163	0.00	0.00
ATOM	4081	HH21	ARG	X	272	54.144	73.292	51.798	0.00	0.00
ATOM	4082	HH22	ARG	X	272	54.662	74.905	51.407	0.00	0.00
ATOM	4083	C	ARG	X	272	51.143	70.261	44.715	0.00	0.00
ATOM	4084	O	ARG	X	272	50.145	69.572	44.668	0.00	0.00
ATOM	4085	N	PRO	X	273	52.078	70.293	43.715	0.00	0.00
ATOM	4086	CD	PRO	X	273	53.191	71.223	43.512	0.00	0.00
ATOM	4087	HD2	PRO	X	273	54.026	70.890	44.129	0.00	0.00
ATOM	4088	HD3	PRO	X	273	52.879	72.253	43.681	0.00	0.00
ATOM	4089	CG	PRO	X	273	53.623	71.122	42.067	0.00	0.00
ATOM	4090	HG2	PRO	X	273	54.680	71.316	41.886	0.00	0.00
ATOM	4091	HG3	PRO	X	273	52.963	71.689	41.410	0.00	0.00
ATOM	4092	CB	PRO	X	273	53.297	69.654	41.753	0.00	0.00
ATOM	4093	HB2	PRO	X	273	54.109	69.024	42.117	0.00	0.00
ATOM	4094	HB3	PRO	X	273	53.237	69.496	40.676	0.00	0.00
ATOM	4095	CA	PRO	X	273	52.002	69.378	42.550	0.00	0.00
ATOM	4096	HA	PRO	X	273	51.279	69.708	41.804	0.00	0.00
ATOM	4097	C	PRO	X	273	51.868	67.827	42.968	0.00	0.00
ATOM	4098	O	PRO	X	273	52.493	67.403	43.928	0.00	0.00
ATOM	4099	N	ALA	X	274	51.165	67.057	42.165	0.00	0.00
ATOM	4100	H	ALA	X	274	50.721	67.387	41.320	0.00	0.00
ATOM	4101	CA	ALA	X	274	51.063	65.631	42.483	0.00	0.00
ATOM	4102	HA	ALA	X	274	50.906	65.303	43.511	0.00	0.00
ATOM	4103	CB	ALA	X	274	49.878	65.152	41.643	0.00	0.00
ATOM	4104	HB1	ALA	X	274	49.091	65.898	41.763	0.00	0.00
ATOM	4105	HB2	ALA	X	274	49.549	64.158	41.944	0.00	0.00
ATOM	4106	HB3	ALA	X	274	50.023	65.244	40.567	0.00	0.00
ATOM	4107	C	ALA	X	274	52.413	64.925	42.096	0.00	0.00
ATOM	4108	O	ALA	X	274	52.753	63.916	42.735	0.00	0.00
ATOM	4109	N	GLN	X	275	53.257	65.479	41.171	0.00	0.00
ATOM	4110	H	GLN	X	275	52.929	66.252	40.611	0.00	0.00
ATOM	4111	CA	GLN	X	275	54.632	64.953	40.902	0.00	0.00
ATOM	4112	HA	GLN	X	275	54.620	63.994	40.383	0.00	0.00
ATOM	4113	CB	GLN	X	275	55.384	65.827	39.914	0.00	0.00
ATOM	4114	HB2	GLN	X	275	54.760	65.907	39.024	0.00	0.00
ATOM	4115	HB3	GLN	X	275	55.551	66.759	40.454	0.00	0.00
ATOM	4116	CG	GLN	X	275	56.729	65.227	39.337	0.00	0.00
ATOM	4117	HG2	GLN	X	275	57.299	64.875	40.198	0.00	0.00
ATOM	4118	HG3	GLN	X	275	56.481	64.367	38.714	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.478	66.358	38.529	0.00	0.00
ATOM	4120	OE1	GLN	X	275	57.305	66.468	37.322	0.00	0.00
ATOM	4121	NE2	GLN	X	275	58.305	67.069	39.287	0.00	0.00
ATOM	4122	HE21	GLN	X	275	58.928	67.723	38.834	0.00	0.00
ATOM	4123	HE22	GLN	X	275	58.524	66.710	40.205	0.00	0.00
ATOM	4124	C	GLN	X	275	55.469	64.872	42.227	0.00	0.00
ATOM	4125	O	GLN	X	275	56.334	64.010	42.383	0.00	0.00
ATOM	4126	N	VAL	X	276	55.354	65.771	43.176	0.00	0.00
ATOM	4127	H	VAL	X	276	54.512	66.313	43.047	0.00	0.00
ATOM	4128	CA	VAL	X	276	56.007	65.827	44.446	0.00	0.00
ATOM	4129	HA	VAL	X	276	57.068	65.659	44.262	0.00	0.00
ATOM	4130	CB	VAL	X	276	55.835	67.195	45.182	0.00	0.00
ATOM	4131	HB	VAL	X	276	54.760	67.222	45.361	0.00	0.00
ATOM	4132	CG1	VAL	X	276	56.399	67.204	46.622	0.00	0.00

ATOM	4133	HG11	VAL	X	276	57.453	66.978	46.459	0.00	0.00
ATOM	4134	HG12	VAL	X	276	56.221	68.179	47.076	0.00	0.00
ATOM	4135	HG13	VAL	X	276	56.079	66.396	47.280	0.00	0.00
ATOM	4136	CG2	VAL	X	276	56.266	68.377	44.336	0.00	0.00
ATOM	4137	HG21	VAL	X	276	57.305	68.292	44.016	0.00	0.00
ATOM	4138	HG22	VAL	X	276	56.041	69.323	44.829	0.00	0.00
ATOM	4139	HG23	VAL	X	276	55.582	68.358	43.487	0.00	0.00
ATOM	4140	C	VAL	X	276	55.501	64.722	45.381	0.00	0.00
ATOM	4141	O	VAL	X	276	56.231	64.211	46.207	0.00	0.00
ATOM	4142	N	LEU	X	277	54.168	64.480	45.253	0.00	0.00
ATOM	4143	H	LEU	X	277	53.573	65.092	44.713	0.00	0.00
ATOM	4144	CA	LEU	X	277	53.485	63.447	46.092	0.00	0.00
ATOM	4145	HA	LEU	X	277	53.728	63.421	47.155	0.00	0.00
ATOM	4146	CB	LEU	X	277	51.986	63.650	45.871	0.00	0.00
ATOM	4147	HB2	LEU	X	277	51.632	63.338	44.889	0.00	0.00
ATOM	4148	HB3	LEU	X	277	51.603	62.989	46.648	0.00	0.00
ATOM	4149	CG	LEU	X	277	51.387	65.045	46.328	0.00	0.00
ATOM	4150	HG	LEU	X	277	51.699	65.845	45.657	0.00	0.00
ATOM	4151	CD1	LEU	X	277	49.844	64.907	46.268	0.00	0.00
ATOM	4152	HD11	LEU	X	277	49.319	65.393	47.089	0.00	0.00
ATOM	4153	HD12	LEU	X	277	49.621	63.843	46.189	0.00	0.00
ATOM	4154	HD13	LEU	X	277	49.596	65.302	45.283	0.00	0.00
ATOM	4155	CD2	LEU	X	277	52.042	65.442	47.700	0.00	0.00
ATOM	4156	HD21	LEU	X	277	51.482	66.255	48.162	0.00	0.00
ATOM	4157	HD22	LEU	X	277	51.853	64.648	48.421	0.00	0.00
ATOM	4158	HD23	LEU	X	277	53.106	65.676	47.716	0.00	0.00
ATOM	4159	C	LEU	X	277	53.912	62.040	45.648	0.00	0.00
ATOM	4160	O	LEU	X	277	54.296	61.224	46.467	0.00	0.00
ATOM	4161	N	VAL	X	278	54.053	61.793	44.346	0.00	0.00
ATOM	4162	H	VAL	X	278	53.750	62.526	43.720	0.00	0.00
ATOM	4163	CA	VAL	X	278	54.523	60.498	43.762	0.00	0.00
ATOM	4164	HA	VAL	X	278	54.102	59.660	44.318	0.00	0.00
ATOM	4165	CB	VAL	X	278	54.054	60.298	42.343	0.00	0.00
ATOM	4166	HB	VAL	X	278	54.268	59.293	41.979	0.00	0.00
ATOM	4167	CG1	VAL	X	278	52.554	60.240	42.394	0.00	0.00
ATOM	4168	HG11	VAL	X	278	52.232	59.614	43.226	0.00	0.00
ATOM	4169	HG12	VAL	X	278	52.091	61.224	42.456	0.00	0.00
ATOM	4170	HG13	VAL	X	278	52.135	59.800	41.489	0.00	0.00
ATOM	4171	CG2	VAL	X	278	54.572	61.296	41.323	0.00	0.00
ATOM	4172	HG21	VAL	X	278	54.178	62.286	41.553	0.00	0.00
ATOM	4173	HG22	VAL	X	278	54.189	60.964	40.358	0.00	0.00
ATOM	4174	HG23	VAL	X	278	55.651	61.448	41.352	0.00	0.00
ATOM	4175	C	VAL	X	278	56.015	60.206	43.907	0.00	0.00
ATOM	4176	O	VAL	X	278	56.451	59.040	43.851	0.00	0.00
ATOM	4177	N	ASN	X	279	56.819	61.251	44.104	0.00	0.00
ATOM	4178	H	ASN	X	279	56.442	62.188	44.104	0.00	0.00
ATOM	4179	CA	ASN	X	279	58.274	61.108	44.396	0.00	0.00
ATOM	4180	HA	ASN	X	279	58.718	60.311	43.799	0.00	0.00
ATOM	4181	CB	ASN	X	279	59.078	62.319	43.868	0.00	0.00
ATOM	4182	HB2	ASN	X	279	58.390	63.146	44.040	0.00	0.00
ATOM	4183	HB3	ASN	X	279	59.964	62.361	44.502	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.515	62.165	42.375	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.643	61.934	42.018	0.00	0.00
ATOM	4186	ND2	ASN	X	279	58.514	62.161	41.495	0.00	0.00
ATOM	4187	HD21	ASN	X	279	58.697	61.966	40.521	0.00	0.00
ATOM	4188	HD22	ASN	X	279	57.586	62.450	41.770	0.00	0.00
ATOM	4189	C	ASN	X	279	58.601	60.847	45.805	0.00	0.00
ATOM	4190	O	ASN	X	279	59.473	59.971	45.969	0.00	0.00
ATOM	4191	N	HIE	X	280	57.931	61.530	46.777	0.00	0.00
ATOM	4192	H	HIE	X	280	57.318	62.319	46.631	0.00	0.00
ATOM	4193	CA	HIE	X	280	58.080	61.285	48.192	0.00	0.00
ATOM	4194	HA	HIE	X	280	59.108	61.064	48.480	0.00	0.00
ATOM	4195	CB	HIE	X	280	57.752	62.549	48.933	0.00	0.00
ATOM	4196	HB2	HIE	X	280	56.739	62.888	48.719	0.00	0.00
ATOM	4197	HB3	HIE	X	280	57.779	62.345	50.004	0.00	0.00
ATOM	4198	CG	HIE	X	280	58.749	63.697	48.740	0.00	0.00
ATOM	4199	ND1	HIE	X	280	60.138	63.497	48.728	0.00	0.00

ATOM	4200	CE1	HIE	X	280	60.655	64.691	48.486	0.00	0.00
ATOM	4201	HE1	HIE	X	280	61.715	64.843	48.344	0.00	0.00
ATOM	4202	NE2	HIE	X	280	59.702	65.609	48.588	0.00	0.00
ATOM	4203	HE2	HIE	X	280	59.839	66.563	48.285	0.00	0.00
ATOM	4204	CD2	HIE	X	280	58.517	65.002	48.652	0.00	0.00
ATOM	4205	HD2	HIE	X	280	57.580	65.511	48.821	0.00	0.00
ATOM	4206	C	HIE	X	280	57.288	60.046	48.664	0.00	0.00
ATOM	4207	O	HIE	X	280	57.456	59.638	49.823	0.00	0.00
ATOM	4208	N	GLU	X	281	56.325	59.530	47.871	0.00	0.00
ATOM	4209	H	GLU	X	281	56.129	59.996	46.997	0.00	0.00
ATOM	4210	CA	GLU	X	281	55.560	58.332	48.322	0.00	0.00
ATOM	4211	HA	GLU	X	281	55.114	58.706	49.244	0.00	0.00
ATOM	4212	CB	GLU	X	281	54.420	57.929	47.417	0.00	0.00
ATOM	4213	HB2	GLU	X	281	54.265	58.767	46.738	0.00	0.00
ATOM	4214	HB3	GLU	X	281	54.724	57.028	46.884	0.00	0.00
ATOM	4215	CG	GLU	X	281	53.203	57.558	48.278	0.00	0.00
ATOM	4216	HG2	GLU	X	281	53.527	56.820	49.012	0.00	0.00
ATOM	4217	HG3	GLU	X	281	52.851	58.454	48.789	0.00	0.00
ATOM	4218	CD	GLU	X	281	52.002	56.992	47.506	0.00	0.00
ATOM	4219	OE1	GLU	X	281	51.147	57.779	47.072	0.00	0.00
ATOM	4220	OE2	GLU	X	281	51.944	55.739	47.321	0.00	0.00
ATOM	4221	C	GLU	X	281	56.489	57.126	48.789	0.00	0.00
ATOM	4222	O	GLU	X	281	56.247	56.465	49.845	0.00	0.00
ATOM	4223	N	TRP	X	282	57.655	57.088	48.137	0.00	0.00
ATOM	4224	H	TRP	X	282	57.889	57.754	47.415	0.00	0.00
ATOM	4225	CA	TRP	X	282	58.674	56.005	48.235	0.00	0.00
ATOM	4226	HA	TRP	X	282	58.216	55.101	47.835	0.00	0.00
ATOM	4227	CB	TRP	X	282	59.833	56.397	47.295	0.00	0.00
ATOM	4228	HB2	TRP	X	282	59.535	56.368	46.247	0.00	0.00
ATOM	4229	HB3	TRP	X	282	60.194	57.395	47.542	0.00	0.00
ATOM	4230	CG	TRP	X	282	61.054	55.471	47.410	0.00	0.00
ATOM	4231	CD1	TRP	X	282	61.266	54.387	46.575	0.00	0.00
ATOM	4232	HD1	TRP	X	282	60.593	54.093	45.783	0.00	0.00
ATOM	4233	NE1	TRP	X	282	62.454	53.753	46.938	0.00	0.00
ATOM	4234	HE1	TRP	X	282	62.781	52.911	46.486	0.00	0.00
ATOM	4235	CE2	TRP	X	282	63.043	54.426	47.978	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	64.283	54.197	48.603	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	64.948	53.419	48.257	0.00	0.00
ATOM	4238	CH2	TRP	X	282	64.595	55.023	49.664	0.00	0.00
ATOM	4239	HH2	TRP	X	282	65.492	54.711	50.179	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	63.705	56.045	50.118	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	63.973	56.692	50.941	0.00	0.00
ATOM	4242	CE3	TRP	X	282	62.552	56.341	49.384	0.00	0.00
ATOM	4243	HE3	TRP	X	282	61.845	57.134	49.579	0.00	0.00
ATOM	4244	CD2	TRP	X	282	62.171	55.516	48.340	0.00	0.00
ATOM	4245	C	TRP	X	282	59.134	55.786	49.764	0.00	0.00
ATOM	4246	O	TRP	X	282	59.378	54.653	50.144	0.00	0.00
ATOM	4247	N	HIE	X	283	59.118	56.828	50.576	0.00	0.00
ATOM	4248	H	HIE	X	283	58.882	57.711	50.146	0.00	0.00
ATOM	4249	CA	HIE	X	283	59.342	56.803	52.093	0.00	0.00
ATOM	4250	HA	HIE	X	283	60.376	56.590	52.362	0.00	0.00
ATOM	4251	CB	HIE	X	283	59.147	58.292	52.583	0.00	0.00
ATOM	4252	HB2	HIE	X	283	59.676	59.025	51.974	0.00	0.00
ATOM	4253	HB3	HIE	X	283	58.106	58.514	52.348	0.00	0.00
ATOM	4254	CG	HIE	X	283	59.502	58.517	54.043	0.00	0.00
ATOM	4255	ND1	HIE	X	283	60.561	57.891	54.686	0.00	0.00
ATOM	4256	CE1	HIE	X	283	60.529	58.346	55.901	0.00	0.00
ATOM	4257	HE1	HIE	X	283	61.324	58.149	56.605	0.00	0.00
ATOM	4258	NE2	HIE	X	283	59.635	59.323	56.070	0.00	0.00
ATOM	4259	HE2	HIE	X	283	59.462	59.751	56.969	0.00	0.00
ATOM	4260	CD2	HIE	X	283	58.874	59.373	54.944	0.00	0.00
ATOM	4261	HD2	HIE	X	283	57.977	59.950	54.771	0.00	0.00
ATOM	4262	C	HIE	X	283	58.360	55.932	52.892	0.00	0.00
ATOM	4263	O	HIE	X	283	58.720	55.362	53.946	0.00	0.00
ATOM	4264	N	VAL	X	284	57.100	56.017	52.453	0.00	0.00
ATOM	4265	H	VAL	X	284	56.851	56.457	51.578	0.00	0.00
ATOM	4266	CA	VAL	X	284	55.940	55.258	53.021	0.00	0.00

ATOM	4267	HA	VAL	X	284	56.297	54.821	53.954	0.00	0.00
ATOM	4268	CB	VAL	X	284	54.758	56.189	53.453	0.00	0.00
ATOM	4269	HB	VAL	X	284	54.134	55.704	54.203	0.00	0.00
ATOM	4270	CG1	VAL	X	284	55.325	57.353	54.254	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.931	56.845	55.004	0.00	0.00
ATOM	4272	HG12	VAL	X	284	56.003	57.992	53.688	0.00	0.00
ATOM	4273	HG13	VAL	X	284	54.516	57.952	54.672	0.00	0.00
ATOM	4274	CG2	VAL	X	284	53.858	56.752	52.363	0.00	0.00
ATOM	4275	HG21	VAL	X	284	54.494	57.371	51.731	0.00	0.00
ATOM	4276	HG22	VAL	X	284	53.015	57.306	52.777	0.00	0.00
ATOM	4277	HG23	VAL	X	284	53.538	55.957	51.690	0.00	0.00
ATOM	4278	C	VAL	X	284	55.466	54.034	52.316	0.00	0.00
ATOM	4279	O	VAL	X	284	54.844	53.170	52.917	0.00	0.00
ATOM	4280	N	LEU	X	285	55.964	53.867	51.113	0.00	0.00
ATOM	4281	H	LEU	X	285	56.548	54.583	50.706	0.00	0.00
ATOM	4282	CA	LEU	X	285	56.106	52.632	50.474	0.00	0.00
ATOM	4283	HA	LEU	X	285	55.098	52.217	50.503	0.00	0.00
ATOM	4284	CB	LEU	X	285	56.409	52.793	48.994	0.00	0.00
ATOM	4285	HB2	LEU	X	285	55.934	53.677	48.567	0.00	0.00
ATOM	4286	HB3	LEU	X	285	57.473	53.008	48.894	0.00	0.00
ATOM	4287	CG	LEU	X	285	56.062	51.527	48.139	0.00	0.00
ATOM	4288	HG	LEU	X	285	56.668	50.760	48.621	0.00	0.00
ATOM	4289	CD1	LEU	X	285	54.650	51.002	48.091	0.00	0.00
ATOM	4290	HD11	LEU	X	285	54.350	50.646	49.077	0.00	0.00
ATOM	4291	HD12	LEU	X	285	54.538	50.219	47.340	0.00	0.00
ATOM	4292	HD13	LEU	X	285	54.018	51.803	47.710	0.00	0.00
ATOM	4293	CD2	LEU	X	285	56.671	51.652	46.740	0.00	0.00
ATOM	4294	HD21	LEU	X	285	57.566	52.258	46.878	0.00	0.00
ATOM	4295	HD22	LEU	X	285	57.098	50.700	46.426	0.00	0.00
ATOM	4296	HD23	LEU	X	285	55.997	52.089	46.004	0.00	0.00
ATOM	4297	C	LEU	X	285	57.132	51.700	51.219	0.00	0.00
ATOM	4298	O	LEU	X	285	58.281	52.070	51.244	0.00	0.00
ATOM	4299	N	PRO	X	286	56.766	50.531	51.766	0.00	0.00
ATOM	4300	CD	PRO	X	286	55.434	49.949	51.658	0.00	0.00
ATOM	4301	HD2	PRO	X	286	55.514	49.151	50.920	0.00	0.00
ATOM	4302	HD3	PRO	X	286	54.620	50.645	51.456	0.00	0.00
ATOM	4303	CG	PRO	X	286	55.183	49.299	53.034	0.00	0.00
ATOM	4304	HG2	PRO	X	286	54.341	48.608	52.989	0.00	0.00
ATOM	4305	HG3	PRO	X	286	54.772	49.999	53.762	0.00	0.00
ATOM	4306	CB	PRO	X	286	56.516	48.715	53.332	0.00	0.00
ATOM	4307	HB2	PRO	X	286	56.467	47.750	52.827	0.00	0.00
ATOM	4308	HB3	PRO	X	286	56.671	48.599	54.404	0.00	0.00
ATOM	4309	CA	PRO	X	286	57.549	49.787	52.773	0.00	0.00
ATOM	4310	HA	PRO	X	286	57.800	50.454	53.597	0.00	0.00
ATOM	4311	C	PRO	X	286	58.808	49.096	52.307	0.00	0.00
ATOM	4312	O	PRO	X	286	58.791	48.470	51.226	0.00	0.00
ATOM	4313	N	GLN	X	287	59.725	49.092	53.217	0.00	0.00
ATOM	4314	H	GLN	X	287	59.607	49.503	54.132	0.00	0.00
ATOM	4315	CA	GLN	X	287	61.017	48.380	52.938	0.00	0.00
ATOM	4316	HA	GLN	X	287	61.006	47.784	52.026	0.00	0.00
ATOM	4317	CB	GLN	X	287	62.154	49.387	52.943	0.00	0.00
ATOM	4318	HB2	GLN	X	287	62.010	49.887	53.901	0.00	0.00
ATOM	4319	HB3	GLN	X	287	63.059	48.815	52.737	0.00	0.00
ATOM	4320	CG	GLN	X	287	62.067	50.360	51.802	0.00	0.00
ATOM	4321	HG2	GLN	X	287	61.752	49.879	50.876	0.00	0.00
ATOM	4322	HG3	GLN	X	287	61.188	50.949	52.065	0.00	0.00
ATOM	4323	CD	GLN	X	287	63.215	51.255	51.551	0.00	0.00
ATOM	4324	OE1	GLN	X	287	64.364	50.892	51.267	0.00	0.00
ATOM	4325	NE2	GLN	X	287	63.043	52.537	51.554	0.00	0.00
ATOM	4326	HE21	GLN	X	287	63.835	53.030	51.166	0.00	0.00
ATOM	4327	HE22	GLN	X	287	62.120	52.872	51.788	0.00	0.00
ATOM	4328	C	GLN	X	287	61.259	47.271	54.029	0.00	0.00
ATOM	4329	O	GLN	X	287	60.630	47.435	55.121	0.00	0.00
ATOM	4330	N	GLU	X	288	62.115	46.317	53.775	0.00	0.00
ATOM	4331	H	GLU	X	288	62.376	46.201	52.806	0.00	0.00
ATOM	4332	CA	GLU	X	288	62.388	45.161	54.666	0.00	0.00
ATOM	4333	HA	GLU	X	288	62.919	44.324	54.212	0.00	0.00

ATOM	4334	CB	GLU	X	288	63.236	45.554	55.928	0.00	0.00
ATOM	4335	HB2	GLU	X	288	62.860	46.500	56.317	0.00	0.00
ATOM	4336	HB3	GLU	X	288	63.133	44.770	56.678	0.00	0.00
ATOM	4337	CG	GLU	X	288	64.735	45.730	55.589	0.00	0.00
ATOM	4338	HG2	GLU	X	288	65.036	44.870	54.991	0.00	0.00
ATOM	4339	HG3	GLU	X	288	64.877	46.567	54.905	0.00	0.00
ATOM	4340	CD	GLU	X	288	65.522	45.880	56.894	0.00	0.00
ATOM	4341	OE1	GLU	X	288	66.529	45.200	57.105	0.00	0.00
ATOM	4342	OE2	GLU	X	288	65.171	46.785	57.685	0.00	0.00
ATOM	4343	C	GLU	X	288	61.040	44.523	55.157	0.00	0.00
ATOM	4344	O	GLU	X	288	60.822	44.081	56.289	0.00	0.00
ATOM	4345	N	SER	X	289	60.110	44.400	54.233	0.00	0.00
ATOM	4346	H	SER	X	289	60.399	44.636	53.294	0.00	0.00
ATOM	4347	CA	SER	X	289	58.669	44.270	54.400	0.00	0.00
ATOM	4348	HA	SER	X	289	58.432	43.604	55.229	0.00	0.00
ATOM	4349	CB	SER	X	289	58.056	45.722	54.639	0.00	0.00
ATOM	4350	HB2	SER	X	289	58.496	46.458	53.967	0.00	0.00
ATOM	4351	HB3	SER	X	289	56.971	45.665	54.550	0.00	0.00
ATOM	4352	OG	SER	X	289	58.335	46.109	55.998	0.00	0.00
ATOM	4353	HG	SER	X	289	59.245	46.400	55.908	0.00	0.00
ATOM	4354	C	SER	X	289	57.979	43.691	53.133	0.00	0.00
ATOM	4355	O	SER	X	289	57.337	44.403	52.401	0.00	0.00
ATOM	4356	N	VAL	X	290	58.268	42.425	52.669	0.00	0.00
ATOM	4357	H	VAL	X	290	58.923	41.894	53.225	0.00	0.00
ATOM	4358	CA	VAL	X	290	57.908	41.984	51.352	0.00	0.00
ATOM	4359	HA	VAL	X	290	58.058	42.802	50.648	0.00	0.00
ATOM	4360	CB	VAL	X	290	58.636	40.686	50.855	0.00	0.00
ATOM	4361	HB	VAL	X	290	58.454	40.631	49.782	0.00	0.00
ATOM	4362	CG1	VAL	X	290	60.109	40.683	51.143	0.00	0.00
ATOM	4363	HG11	VAL	X	290	60.465	40.348	52.117	0.00	0.00
ATOM	4364	HG12	VAL	X	290	60.674	39.972	50.541	0.00	0.00
ATOM	4365	HG13	VAL	X	290	60.332	41.738	50.982	0.00	0.00
ATOM	4366	CG2	VAL	X	290	57.936	39.384	51.459	0.00	0.00
ATOM	4367	HG21	VAL	X	290	58.583	38.507	51.492	0.00	0.00
ATOM	4368	HG22	VAL	X	290	57.056	39.200	50.842	0.00	0.00
ATOM	4369	HG23	VAL	X	290	57.723	39.711	52.477	0.00	0.00
ATOM	4370	C	VAL	X	290	56.437	41.752	51.254	0.00	0.00
ATOM	4371	O	VAL	X	290	55.729	41.382	52.203	0.00	0.00
ATOM	4372	N	PHE	X	291	55.867	41.898	50.009	0.00	0.00
ATOM	4373	H	PHE	X	291	56.451	42.012	49.193	0.00	0.00
ATOM	4374	CA	PHE	X	291	54.413	41.663	49.779	0.00	0.00
ATOM	4375	HA	PHE	X	291	54.387	41.833	48.703	0.00	0.00
ATOM	4376	CB	PHE	X	291	54.087	40.178	50.206	0.00	0.00
ATOM	4377	HB2	PHE	X	291	54.995	39.576	50.245	0.00	0.00
ATOM	4378	HB3	PHE	X	291	53.807	40.203	51.258	0.00	0.00
ATOM	4379	CG	PHE	X	291	53.032	39.497	49.338	0.00	0.00
ATOM	4380	CD1	PHE	X	291	51.906	40.185	48.760	0.00	0.00
ATOM	4381	HD1	PHE	X	291	51.787	41.247	48.916	0.00	0.00
ATOM	4382	CE1	PHE	X	291	50.897	39.417	48.120	0.00	0.00
ATOM	4383	HE1	PHE	X	291	50.054	39.892	47.639	0.00	0.00
ATOM	4384	CZ	PHE	X	291	51.135	38.015	47.910	0.00	0.00
ATOM	4385	HZ	PHE	X	291	50.471	37.424	47.298	0.00	0.00
ATOM	4386	CE2	PHE	X	291	52.281	37.381	48.369	0.00	0.00
ATOM	4387	HE2	PHE	X	291	52.372	36.355	48.043	0.00	0.00
ATOM	4388	CD2	PHE	X	291	53.186	38.096	49.111	0.00	0.00
ATOM	4389	HD2	PHE	X	291	54.114	37.624	49.399	0.00	0.00
ATOM	4390	C	PHE	X	291	53.488	42.736	50.461	0.00	0.00
ATOM	4391	O	PHE	X	291	52.385	42.429	50.899	0.00	0.00
ATOM	4392	N	ARG	X	292	53.895	44.038	50.573	0.00	0.00
ATOM	4393	H	ARG	X	292	54.788	44.327	50.199	0.00	0.00
ATOM	4394	CA	ARG	X	292	53.174	45.033	51.459	0.00	0.00
ATOM	4395	HA	ARG	X	292	52.113	44.789	51.506	0.00	0.00
ATOM	4396	CB	ARG	X	292	53.737	44.967	52.864	0.00	0.00
ATOM	4397	HB2	ARG	X	292	53.835	43.919	53.150	0.00	0.00
ATOM	4398	HB3	ARG	X	292	54.812	45.113	52.757	0.00	0.00
ATOM	4399	CG	ARG	X	292	53.119	45.812	54.046	0.00	0.00
ATOM	4400	HG2	ARG	X	292	53.319	46.858	53.812	0.00	0.00

ATOM	4401	HG3	ARG	X	292	52.049	45.698	54.217	0.00	0.00
ATOM	4402	CD	ARG	X	292	53.911	45.524	55.336	0.00	0.00
ATOM	4403	HD2	ARG	X	292	53.959	44.445	55.479	0.00	0.00
ATOM	4404	HD3	ARG	X	292	54.911	45.921	55.161	0.00	0.00
ATOM	4405	NE	ARG	X	292	53.353	46.297	56.434	0.00	0.00
ATOM	4406	HE	ARG	X	292	53.830	47.167	56.623	0.00	0.00
ATOM	4407	CZ	ARG	X	292	52.376	46.076	57.262	0.00	0.00
ATOM	4408	NH1	ARG	X	292	51.522	45.190	57.059	0.00	0.00
ATOM	4409	HH11	ARG	X	292	51.673	44.513	56.326	0.00	0.00
ATOM	4410	HH12	ARG	X	292	50.820	45.015	57.765	0.00	0.00
ATOM	4411	NH2	ARG	X	292	52.210	46.920	58.252	0.00	0.00
ATOM	4412	HH21	ARG	X	292	52.806	47.686	58.532	0.00	0.00
ATOM	4413	HH22	ARG	X	292	51.563	46.589	58.953	0.00	0.00
ATOM	4414	C	ARG	X	292	53.424	46.439	50.901	0.00	0.00
ATOM	4415	O	ARG	X	292	54.557	46.762	50.439	0.00	0.00
ATOM	4416	N	PHE	X	293	52.357	47.246	50.997	0.00	0.00
ATOM	4417	H	PHE	X	293	51.489	47.041	51.471	0.00	0.00
ATOM	4418	CA	PHE	X	293	52.314	48.502	50.161	0.00	0.00
ATOM	4419	HA	PHE	X	293	53.284	48.582	49.671	0.00	0.00
ATOM	4420	CB	PHE	X	293	51.238	48.259	49.044	0.00	0.00
ATOM	4421	HB2	PHE	X	293	50.241	48.188	49.478	0.00	0.00
ATOM	4422	HB3	PHE	X	293	51.339	49.046	48.296	0.00	0.00
ATOM	4423	CG	PHE	X	293	51.435	46.890	48.437	0.00	0.00
ATOM	4424	CD1	PHE	X	293	52.550	46.578	47.653	0.00	0.00
ATOM	4425	HD1	PHE	X	293	53.303	47.318	47.425	0.00	0.00
ATOM	4426	CE1	PHE	X	293	52.670	45.276	47.034	0.00	0.00
ATOM	4427	HE1	PHE	X	293	53.575	45.148	46.459	0.00	0.00
ATOM	4428	CZ	PHE	X	293	51.686	44.344	47.304	0.00	0.00
ATOM	4429	HZ	PHE	X	293	51.862	43.406	46.799	0.00	0.00
ATOM	4430	CE2	PHE	X	293	50.634	44.622	48.234	0.00	0.00
ATOM	4431	HE2	PHE	X	293	49.871	43.861	48.304	0.00	0.00
ATOM	4432	CD2	PHE	X	293	50.488	45.882	48.761	0.00	0.00
ATOM	4433	HD2	PHE	X	293	49.637	46.189	49.351	0.00	0.00
ATOM	4434	C	PHE	X	293	52.125	49.835	50.837	0.00	0.00
ATOM	4435	O	PHE	X	293	52.023	49.790	52.083	0.00	0.00
ATOM	4436	N	SER	X	294	52.140	50.950	50.098	0.00	0.00
ATOM	4437	H	SER	X	294	52.034	50.856	49.098	0.00	0.00
ATOM	4438	CA	SER	X	294	52.027	52.291	50.715	0.00	0.00
ATOM	4439	HA	SER	X	294	52.674	52.280	51.593	0.00	0.00
ATOM	4440	CB	SER	X	294	52.483	53.405	49.783	0.00	0.00
ATOM	4441	HB2	SER	X	294	52.156	54.362	50.190	0.00	0.00
ATOM	4442	HB3	SER	X	294	53.567	53.355	49.686	0.00	0.00
ATOM	4443	OG	SER	X	294	52.006	53.184	48.437	0.00	0.00
ATOM	4444	HG	SER	X	294	51.976	54.067	48.061	0.00	0.00
ATOM	4445	C	SER	X	294	50.583	52.613	51.235	0.00	0.00
ATOM	4446	O	SER	X	294	50.323	52.617	52.455	0.00	0.00
ATOM	4447	N	PHE	X	295	49.601	52.944	50.383	0.00	0.00
ATOM	4448	H	PHE	X	295	49.912	52.977	49.423	0.00	0.00
ATOM	4449	CA	PHE	X	295	48.250	53.109	50.700	0.00	0.00
ATOM	4450	HA	PHE	X	295	48.130	53.125	51.783	0.00	0.00
ATOM	4451	CB	PHE	X	295	47.785	54.477	50.170	0.00	0.00
ATOM	4452	HB2	PHE	X	295	47.972	54.572	49.100	0.00	0.00
ATOM	4453	HB3	PHE	X	295	46.709	54.527	50.341	0.00	0.00
ATOM	4454	CG	PHE	X	295	48.462	55.648	50.866	0.00	0.00
ATOM	4455	CD1	PHE	X	295	47.911	56.191	52.011	0.00	0.00
ATOM	4456	HD1	PHE	X	295	46.945	55.900	52.395	0.00	0.00
ATOM	4457	CE1	PHE	X	295	48.568	57.169	52.713	0.00	0.00
ATOM	4458	HE1	PHE	X	295	48.167	57.688	53.570	0.00	0.00
ATOM	4459	CZ	PHE	X	295	49.788	57.717	52.233	0.00	0.00
ATOM	4460	HZ	PHE	X	295	50.263	58.534	52.756	0.00	0.00
ATOM	4461	CE2	PHE	X	295	50.327	57.197	51.057	0.00	0.00
ATOM	4462	HE2	PHE	X	295	51.267	57.542	50.654	0.00	0.00
ATOM	4463	CD2	PHE	X	295	49.709	56.136	50.416	0.00	0.00
ATOM	4464	HD2	PHE	X	295	50.084	55.818	49.454	0.00	0.00
ATOM	4465	C	PHE	X	295	47.335	52.043	50.061	0.00	0.00
ATOM	4466	O	PHE	X	295	47.499	51.686	48.867	0.00	0.00
ATOM	4467	N	VAL	X	296	46.485	51.440	50.878	0.00	0.00

ATOM	4468	H	VAL	X	296	46.292	51.966	51.718	0.00	0.00
ATOM	4469	CA	VAL	X	296	45.635	50.272	50.456	0.00	0.00
ATOM	4470	HA	VAL	X	296	45.458	50.267	49.381	0.00	0.00
ATOM	4471	CB	VAL	X	296	46.270	48.876	50.791	0.00	0.00
ATOM	4472	HB	VAL	X	296	45.674	48.019	50.475	0.00	0.00
ATOM	4473	CG1	VAL	X	296	47.606	48.874	50.074	0.00	0.00
ATOM	4474	HG11	VAL	X	296	48.051	47.882	50.149	0.00	0.00
ATOM	4475	HG12	VAL	X	296	47.630	49.125	49.013	0.00	0.00
ATOM	4476	HG13	VAL	X	296	48.407	49.474	50.507	0.00	0.00
ATOM	4477	CG2	VAL	X	296	46.525	48.501	52.240	0.00	0.00
ATOM	4478	HG21	VAL	X	296	46.868	47.467	52.249	0.00	0.00
ATOM	4479	HG22	VAL	X	296	45.580	48.601	52.775	0.00	0.00
ATOM	4480	HG23	VAL	X	296	47.229	49.178	52.724	0.00	0.00
ATOM	4481	C	VAL	X	296	44.243	50.367	51.184	0.00	0.00
ATOM	4482	O	VAL	X	296	44.177	51.136	52.173	0.00	0.00
ATOM	4483	N	PRO	X	297	43.197	49.620	50.779	0.00	0.00
ATOM	4484	CD	PRO	X	297	43.223	48.813	49.554	0.00	0.00
ATOM	4485	HD2	PRO	X	297	43.715	47.841	49.570	0.00	0.00
ATOM	4486	HD3	PRO	X	297	43.683	49.314	48.702	0.00	0.00
ATOM	4487	CG	PRO	X	297	41.765	48.623	49.284	0.00	0.00
ATOM	4488	HG2	PRO	X	297	41.626	47.733	48.670	0.00	0.00
ATOM	4489	HG3	PRO	X	297	41.450	49.487	48.699	0.00	0.00
ATOM	4490	CB	PRO	X	297	41.017	48.647	50.650	0.00	0.00
ATOM	4491	HB2	PRO	X	297	41.271	47.741	51.201	0.00	0.00
ATOM	4492	HB3	PRO	X	297	39.942	48.827	50.655	0.00	0.00
ATOM	4493	CA	PRO	X	297	41.802	49.785	51.280	0.00	0.00
ATOM	4494	HA	PRO	X	297	41.383	50.645	50.759	0.00	0.00
ATOM	4495	C	PRO	X	297	41.629	49.970	52.782	0.00	0.00
ATOM	4496	O	PRO	X	297	42.200	49.209	53.527	0.00	0.00
ATOM	4497	N	VAL	X	298	40.847	50.971	53.104	0.00	0.00
ATOM	4498	H	VAL	X	298	40.284	51.331	52.346	0.00	0.00
ATOM	4499	CA	VAL	X	298	40.799	51.656	54.401	0.00	0.00
ATOM	4500	HA	VAL	X	298	41.750	51.449	54.891	0.00	0.00
ATOM	4501	CB	VAL	X	298	40.871	53.211	54.242	0.00	0.00
ATOM	4502	HB	VAL	X	298	39.928	53.576	53.835	0.00	0.00
ATOM	4503	CG1	VAL	X	298	41.338	53.772	55.649	0.00	0.00
ATOM	4504	HG11	VAL	X	298	42.367	53.480	55.858	0.00	0.00
ATOM	4505	HG12	VAL	X	298	41.277	54.858	55.578	0.00	0.00
ATOM	4506	HG13	VAL	X	298	40.717	53.407	56.467	0.00	0.00
ATOM	4507	CG2	VAL	X	298	41.996	53.686	53.284	0.00	0.00
ATOM	4508	HG21	VAL	X	298	42.833	53.015	53.477	0.00	0.00
ATOM	4509	HG22	VAL	X	298	42.134	54.749	53.479	0.00	0.00
ATOM	4510	HG23	VAL	X	298	41.532	53.699	52.297	0.00	0.00
ATOM	4511	C	VAL	X	298	39.503	51.307	55.158	0.00	0.00
ATOM	4512	O	VAL	X	298	38.435	51.541	54.729	0.00	0.00
ATOM	4513	N	VAL	X	299	39.723	50.586	56.231	0.00	0.00
ATOM	4514	H	VAL	X	299	40.698	50.338	56.325	0.00	0.00
ATOM	4515	CA	VAL	X	299	38.712	50.134	57.196	0.00	0.00
ATOM	4516	HA	VAL	X	299	37.773	49.785	56.766	0.00	0.00
ATOM	4517	CB	VAL	X	299	39.062	48.968	58.227	0.00	0.00
ATOM	4518	HB	VAL	X	299	40.061	49.136	58.629	0.00	0.00
ATOM	4519	CG1	VAL	X	299	38.193	48.920	59.451	0.00	0.00
ATOM	4520	HG11	VAL	X	299	38.511	48.061	60.042	0.00	0.00
ATOM	4521	HG12	VAL	X	299	38.414	49.761	60.108	0.00	0.00
ATOM	4522	HG13	VAL	X	299	37.147	48.920	59.142	0.00	0.00
ATOM	4523	CG2	VAL	X	299	38.977	47.648	57.490	0.00	0.00
ATOM	4524	HG21	VAL	X	299	39.410	47.769	56.497	0.00	0.00
ATOM	4525	HG22	VAL	X	299	37.924	47.444	57.299	0.00	0.00
ATOM	4526	HG23	VAL	X	299	39.484	46.825	57.994	0.00	0.00
ATOM	4527	C	VAL	X	299	38.330	51.419	57.994	0.00	0.00
ATOM	4528	O	VAL	X	299	39.148	51.960	58.805	0.00	0.00
ATOM	4529	N	ASP	X	300	37.147	51.851	57.703	0.00	0.00
ATOM	4530	H	ASP	X	300	36.659	51.302	57.011	0.00	0.00
ATOM	4531	CA	ASP	X	300	36.680	53.213	57.970	0.00	0.00
ATOM	4532	HA	ASP	X	300	37.313	53.603	58.767	0.00	0.00
ATOM	4533	CB	ASP	X	300	36.933	54.079	56.702	0.00	0.00
ATOM	4534	HB2	ASP	X	300	37.895	54.584	56.800	0.00	0.00

ATOM	4535	HB3	ASP	X	300	36.844	53.467	55.805	0.00	0.00
ATOM	4536	CG	ASP	X	300	35.924	55.187	56.632	0.00	0.00
ATOM	4537	OD1	ASP	X	300	35.899	56.121	57.449	0.00	0.00
ATOM	4538	OD2	ASP	X	300	35.125	55.154	55.648	0.00	0.00
ATOM	4539	C	ASP	X	300	35.231	53.143	58.448	0.00	0.00
ATOM	4540	O	ASP	X	300	34.970	53.574	59.557	0.00	0.00
ATOM	4541	N	GLY	X	301	34.328	52.499	57.706	0.00	0.00
ATOM	4542	H	GLY	X	301	34.688	52.039	56.882	0.00	0.00
ATOM	4543	CA	GLY	X	301	32.865	52.498	57.891	0.00	0.00
ATOM	4544	HA2	GLY	X	301	32.560	51.580	58.394	0.00	0.00
ATOM	4545	HA3	GLY	X	301	32.629	53.447	58.372	0.00	0.00
ATOM	4546	C	GLY	X	301	32.053	52.449	56.587	0.00	0.00
ATOM	4547	O	GLY	X	301	30.942	52.086	56.596	0.00	0.00
ATOM	4548	N	ASP	X	302	32.622	53.037	55.538	0.00	0.00
ATOM	4549	H	ASP	X	302	33.533	53.451	55.673	0.00	0.00
ATOM	4550	CA	ASP	X	302	32.019	53.243	54.236	0.00	0.00
ATOM	4551	HA	ASP	X	302	30.936	53.321	54.335	0.00	0.00
ATOM	4552	CB	ASP	X	302	32.516	54.537	53.597	0.00	0.00
ATOM	4553	HB2	ASP	X	302	32.236	55.363	54.250	0.00	0.00
ATOM	4554	HB3	ASP	X	302	33.603	54.480	53.557	0.00	0.00
ATOM	4555	CG	ASP	X	302	31.875	54.875	52.194	0.00	0.00
ATOM	4556	OD1	ASP	X	302	30.957	55.737	52.169	0.00	0.00
ATOM	4557	OD2	ASP	X	302	32.353	54.403	51.140	0.00	0.00
ATOM	4558	C	ASP	X	302	32.307	52.031	53.401	0.00	0.00
ATOM	4559	O	ASP	X	302	31.470	51.100	53.330	0.00	0.00
ATOM	4560	N	PHE	X	303	33.449	51.912	52.687	0.00	0.00
ATOM	4561	H	PHE	X	303	34.111	52.668	52.582	0.00	0.00
ATOM	4562	CA	PHE	X	303	33.548	50.701	51.843	0.00	0.00
ATOM	4563	HA	PHE	X	303	32.612	50.474	51.334	0.00	0.00
ATOM	4564	CB	PHE	X	303	34.755	50.901	50.846	0.00	0.00
ATOM	4565	HB2	PHE	X	303	34.935	51.968	50.716	0.00	0.00
ATOM	4566	HB3	PHE	X	303	35.632	50.367	51.212	0.00	0.00
ATOM	4567	CG	PHE	X	303	34.427	50.303	49.426	0.00	0.00
ATOM	4568	CD1	PHE	X	303	34.348	48.934	49.214	0.00	0.00
ATOM	4569	HD1	PHE	X	303	34.675	48.246	49.979	0.00	0.00
ATOM	4570	CE1	PHE	X	303	34.063	48.401	47.975	0.00	0.00
ATOM	4571	HE1	PHE	X	303	34.108	47.334	47.810	0.00	0.00
ATOM	4572	CZ	PHE	X	303	33.839	49.274	46.866	0.00	0.00
ATOM	4573	HZ	PHE	X	303	33.622	48.868	45.889	0.00	0.00
ATOM	4574	CE2	PHE	X	303	33.949	50.640	47.075	0.00	0.00
ATOM	4575	HE2	PHE	X	303	34.016	51.323	46.241	0.00	0.00
ATOM	4576	CD2	PHE	X	303	34.317	51.132	48.323	0.00	0.00
ATOM	4577	HD2	PHE	X	303	34.522	52.185	48.444	0.00	0.00
ATOM	4578	C	PHE	X	303	33.734	49.415	52.632	0.00	0.00
ATOM	4579	O	PHE	X	303	32.951	48.493	52.459	0.00	0.00
ATOM	4580	N	LEU	X	304	34.681	49.447	53.556	0.00	0.00
ATOM	4581	H	LEU	X	304	35.297	50.247	53.553	0.00	0.00
ATOM	4582	CA	LEU	X	304	34.979	48.327	54.547	0.00	0.00
ATOM	4583	HA	LEU	X	304	34.396	47.469	54.212	0.00	0.00
ATOM	4584	CB	LEU	X	304	36.452	47.854	54.324	0.00	0.00
ATOM	4585	HB2	LEU	X	304	37.148	48.692	54.306	0.00	0.00
ATOM	4586	HB3	LEU	X	304	36.815	47.298	55.188	0.00	0.00
ATOM	4587	CG	LEU	X	304	36.685	47.051	52.989	0.00	0.00
ATOM	4588	HG	LEU	X	304	36.360	47.688	52.166	0.00	0.00
ATOM	4589	CD1	LEU	X	304	38.194	46.957	52.826	0.00	0.00
ATOM	4590	HD11	LEU	X	304	38.436	46.492	51.870	0.00	0.00
ATOM	4591	HD12	LEU	X	304	38.616	46.367	53.640	0.00	0.00
ATOM	4592	HD13	LEU	X	304	38.629	47.955	52.877	0.00	0.00
ATOM	4593	CD2	LEU	X	304	36.141	45.646	52.917	0.00	0.00
ATOM	4594	HD21	LEU	X	304	35.155	45.627	52.452	0.00	0.00
ATOM	4595	HD22	LEU	X	304	36.794	44.962	52.375	0.00	0.00
ATOM	4596	HD23	LEU	X	304	36.141	45.151	53.888	0.00	0.00
ATOM	4597	C	LEU	X	304	34.728	48.907	55.935	0.00	0.00
ATOM	4598	O	LEU	X	304	35.225	49.988	56.214	0.00	0.00
ATOM	4599	N	SER	X	305	34.073	48.204	56.794	0.00	0.00
ATOM	4600	H	SER	X	305	33.748	47.274	56.572	0.00	0.00
ATOM	4601	CA	SER	X	305	33.790	48.690	58.150	0.00	0.00

ATOM	4602	HA	SER	X	305	34.215	49.693	58.190	0.00	0.00
ATOM	4603	CB	SER	X	305	32.271	48.645	58.335	0.00	0.00
ATOM	4604	HB2	SER	X	305	31.973	47.639	58.041	0.00	0.00
ATOM	4605	HB3	SER	X	305	32.042	48.772	59.393	0.00	0.00
ATOM	4606	OG	SER	X	305	31.573	49.673	57.657	0.00	0.00
ATOM	4607	HG	SER	X	305	31.604	49.523	56.710	0.00	0.00
ATOM	4608	C	SER	X	305	34.427	47.873	59.248	0.00	0.00
ATOM	4609	O	SER	X	305	34.378	48.232	60.424	0.00	0.00
ATOM	4610	N	ASP	X	306	34.871	46.689	58.906	0.00	0.00
ATOM	4611	H	ASP	X	306	34.782	46.323	57.969	0.00	0.00
ATOM	4612	CA	ASP	X	306	35.701	45.776	59.631	0.00	0.00
ATOM	4613	HA	ASP	X	306	36.345	46.268	60.360	0.00	0.00
ATOM	4614	CB	ASP	X	306	34.843	44.860	60.504	0.00	0.00
ATOM	4615	HB2	ASP	X	306	34.095	45.531	60.927	0.00	0.00
ATOM	4616	HB3	ASP	X	306	34.391	44.026	59.967	0.00	0.00
ATOM	4617	CG	ASP	X	306	35.570	44.244	61.759	0.00	0.00
ATOM	4618	OD1	ASP	X	306	36.790	44.537	61.972	0.00	0.00
ATOM	4619	OD2	ASP	X	306	34.865	43.451	62.426	0.00	0.00
ATOM	4620	C	ASP	X	306	36.409	45.019	58.493	0.00	0.00
ATOM	4621	O	ASP	X	306	36.204	45.226	57.326	0.00	0.00
ATOM	4622	N	THR	X	307	37.341	44.182	58.862	0.00	0.00
ATOM	4623	H	THR	X	307	37.495	43.995	59.843	0.00	0.00
ATOM	4624	CA	THR	X	307	38.221	43.631	57.977	0.00	0.00
ATOM	4625	HA	THR	X	307	38.649	44.322	57.251	0.00	0.00
ATOM	4626	CB	THR	X	307	39.377	43.131	58.862	0.00	0.00
ATOM	4627	HB	THR	X	307	39.633	42.177	58.401	0.00	0.00
ATOM	4628	CG2	THR	X	307	40.635	44.052	58.784	0.00	0.00
ATOM	4629	HG21	THR	X	307	40.562	44.934	59.419	0.00	0.00
ATOM	4630	HG22	THR	X	307	40.743	44.466	57.782	0.00	0.00
ATOM	4631	HG23	THR	X	307	41.461	43.410	59.088	0.00	0.00
ATOM	4632	OG1	THR	X	307	39.012	42.858	60.203	0.00	0.00
ATOM	4633	HG1	THR	X	307	39.791	42.724	60.747	0.00	0.00
ATOM	4634	C	THR	X	307	37.501	42.554	57.215	0.00	0.00
ATOM	4635	O	THR	X	307	36.657	41.812	57.793	0.00	0.00
ATOM	4636	N	PRO	X	308	37.884	42.189	55.968	0.00	0.00
ATOM	4637	CD	PRO	X	308	38.823	42.926	55.203	0.00	0.00
ATOM	4638	HD2	PRO	X	308	39.804	43.042	55.665	0.00	0.00
ATOM	4639	HD3	PRO	X	308	38.402	43.926	55.101	0.00	0.00
ATOM	4640	CG	PRO	X	308	38.937	42.182	53.890	0.00	0.00
ATOM	4641	HG2	PRO	X	308	39.749	41.483	54.090	0.00	0.00
ATOM	4642	HG3	PRO	X	308	39.147	42.747	52.982	0.00	0.00
ATOM	4643	CB	PRO	X	308	37.477	41.549	53.691	0.00	0.00
ATOM	4644	HB2	PRO	X	308	37.492	40.620	53.121	0.00	0.00
ATOM	4645	HB3	PRO	X	308	36.753	42.272	53.316	0.00	0.00
ATOM	4646	CA	PRO	X	308	37.111	41.292	55.137	0.00	0.00
ATOM	4647	HA	PRO	X	308	36.057	41.554	55.234	0.00	0.00
ATOM	4648	C	PRO	X	308	37.199	39.830	55.632	0.00	0.00
ATOM	4649	O	PRO	X	308	36.256	39.105	55.361	0.00	0.00
ATOM	4650	N	GLU	X	309	38.215	39.377	56.409	0.00	0.00
ATOM	4651	H	GLU	X	309	38.969	40.004	56.653	0.00	0.00
ATOM	4652	CA	GLU	X	309	38.240	38.129	57.158	0.00	0.00
ATOM	4653	HA	GLU	X	309	38.034	37.312	56.467	0.00	0.00
ATOM	4654	CB	GLU	X	309	39.561	37.926	57.925	0.00	0.00
ATOM	4655	HB2	GLU	X	309	39.507	36.910	58.317	0.00	0.00
ATOM	4656	HB3	GLU	X	309	40.270	37.890	57.098	0.00	0.00
ATOM	4657	CG	GLU	X	309	39.811	38.918	59.018	0.00	0.00
ATOM	4658	HG2	GLU	X	309	40.136	39.872	58.602	0.00	0.00
ATOM	4659	HG3	GLU	X	309	38.976	39.016	59.712	0.00	0.00
ATOM	4660	CD	GLU	X	309	41.121	38.570	59.753	0.00	0.00
ATOM	4661	OE1	GLU	X	309	41.047	38.200	60.959	0.00	0.00
ATOM	4662	OE2	GLU	X	309	42.192	38.708	59.070	0.00	0.00
ATOM	4663	C	GLU	X	309	37.202	38.036	58.261	0.00	0.00
ATOM	4664	O	GLU	X	309	36.902	36.948	58.675	0.00	0.00
ATOM	4665	N	ALA	X	310	36.659	39.122	58.758	0.00	0.00
ATOM	4666	H	ALA	X	310	36.983	39.973	58.321	0.00	0.00
ATOM	4667	CA	ALA	X	310	35.458	39.199	59.659	0.00	0.00
ATOM	4668	HA	ALA	X	310	35.539	38.300	60.271	0.00	0.00

ATOM	4669	CB	ALA	X	310	35.520	40.459	60.587	0.00	0.00
ATOM	4670	HB1	ALA	X	310	35.489	41.353	59.965	0.00	0.00
ATOM	4671	HB2	ALA	X	310	36.445	40.447	61.163	0.00	0.00
ATOM	4672	HB3	ALA	X	310	34.607	40.510	61.181	0.00	0.00
ATOM	4673	C	ALA	X	310	34.175	39.117	58.854	0.00	0.00
ATOM	4674	O	ALA	X	310	33.374	38.176	59.049	0.00	0.00
ATOM	4675	N	LEU	X	311	34.056	40.061	57.894	0.00	0.00
ATOM	4676	H	LEU	X	311	34.814	40.727	57.860	0.00	0.00
ATOM	4677	CA	LEU	X	311	32.888	40.228	57.047	0.00	0.00
ATOM	4678	HA	LEU	X	311	32.090	40.443	57.758	0.00	0.00
ATOM	4679	CB	LEU	X	311	33.054	41.277	55.949	0.00	0.00
ATOM	4680	HB2	LEU	X	311	33.869	40.833	55.378	0.00	0.00
ATOM	4681	HB3	LEU	X	311	32.168	41.290	55.314	0.00	0.00
ATOM	4682	CG	LEU	X	311	33.311	42.704	56.429	0.00	0.00
ATOM	4683	HG	LEU	X	311	34.297	42.781	56.887	0.00	0.00
ATOM	4684	CD1	LEU	X	311	33.431	43.508	55.131	0.00	0.00
ATOM	4685	HD11	LEU	X	311	32.508	43.446	54.555	0.00	0.00
ATOM	4686	HD12	LEU	X	311	34.225	43.068	54.527	0.00	0.00
ATOM	4687	HD13	LEU	X	311	33.746	44.531	55.339	0.00	0.00
ATOM	4688	CD2	LEU	X	311	32.334	43.308	57.404	0.00	0.00
ATOM	4689	HD21	LEU	X	311	32.350	42.815	58.377	0.00	0.00
ATOM	4690	HD22	LEU	X	311	32.681	44.296	57.707	0.00	0.00
ATOM	4691	HD23	LEU	X	311	31.305	43.274	57.047	0.00	0.00
ATOM	4692	C	LEU	X	311	32.501	38.894	56.418	0.00	0.00
ATOM	4693	O	LEU	X	311	31.310	38.488	56.383	0.00	0.00
ATOM	4694	N	ILE	X	312	33.417	38.157	55.751	0.00	0.00
ATOM	4695	H	ILE	X	312	34.329	38.559	55.588	0.00	0.00
ATOM	4696	CA	ILE	X	312	33.114	36.863	55.015	0.00	0.00
ATOM	4697	HA	ILE	X	312	32.245	36.933	54.361	0.00	0.00
ATOM	4698	CB	ILE	X	312	34.424	36.440	54.194	0.00	0.00
ATOM	4699	HB	ILE	X	312	34.780	37.296	53.620	0.00	0.00
ATOM	4700	CG2	ILE	X	312	35.510	35.971	55.167	0.00	0.00
ATOM	4701	HG21	ILE	X	312	35.454	34.910	55.409	0.00	0.00
ATOM	4702	HG22	ILE	X	312	35.468	36.605	56.053	0.00	0.00
ATOM	4703	HG23	ILE	X	312	36.398	36.183	54.571	0.00	0.00
ATOM	4704	CG1	ILE	X	312	34.048	35.346	53.065	0.00	0.00
ATOM	4705	HG12	ILE	X	312	34.835	34.628	52.832	0.00	0.00
ATOM	4706	HG13	ILE	X	312	33.240	34.734	53.466	0.00	0.00
ATOM	4707	CD1	ILE	X	312	33.682	35.995	51.639	0.00	0.00
ATOM	4708	HD11	ILE	X	312	34.469	36.731	51.474	0.00	0.00
ATOM	4709	HD12	ILE	X	312	32.733	36.524	51.731	0.00	0.00
ATOM	4710	HD13	ILE	X	312	33.547	35.336	50.781	0.00	0.00
ATOM	4711	C	ILE	X	312	32.634	35.706	55.912	0.00	0.00
ATOM	4712	O	ILE	X	312	31.724	34.945	55.549	0.00	0.00
ATOM	4713	N	ASN	X	313	33.018	35.712	57.222	0.00	0.00
ATOM	4714	H	ASN	X	313	33.516	36.540	57.517	0.00	0.00
ATOM	4715	CA	ASN	X	313	32.517	34.905	58.276	0.00	0.00
ATOM	4716	HA	ASN	X	313	32.240	33.966	57.797	0.00	0.00
ATOM	4717	CB	ASN	X	313	33.673	34.607	59.306	0.00	0.00
ATOM	4718	HB2	ASN	X	313	34.286	33.867	58.792	0.00	0.00
ATOM	4719	HB3	ASN	X	313	34.195	35.501	59.648	0.00	0.00
ATOM	4720	CG	ASN	X	313	33.123	33.946	60.568	0.00	0.00
ATOM	4721	OD1	ASN	X	313	33.151	32.695	60.665	0.00	0.00
ATOM	4722	ND2	ASN	X	313	32.795	34.655	61.650	0.00	0.00
ATOM	4723	HD21	ASN	X	313	32.744	34.241	62.570	0.00	0.00
ATOM	4724	HD22	ASN	X	313	32.901	35.659	61.620	0.00	0.00
ATOM	4725	C	ASN	X	313	31.206	35.440	58.889	0.00	0.00
ATOM	4726	O	ASN	X	313	30.484	34.681	59.527	0.00	0.00
ATOM	4727	N	ALA	X	314	30.831	36.693	58.643	0.00	0.00
ATOM	4728	H	ALA	X	314	31.412	37.370	58.170	0.00	0.00
ATOM	4729	CA	ALA	X	314	29.502	37.129	59.007	0.00	0.00
ATOM	4730	HA	ALA	X	314	29.063	36.526	59.802	0.00	0.00
ATOM	4731	CB	ALA	X	314	29.683	38.521	59.591	0.00	0.00
ATOM	4732	HB1	ALA	X	314	30.172	39.231	58.925	0.00	0.00
ATOM	4733	HB2	ALA	X	314	30.272	38.397	60.500	0.00	0.00
ATOM	4734	HB3	ALA	X	314	28.727	38.964	59.870	0.00	0.00
ATOM	4735	C	ALA	X	314	28.538	37.061	57.776	0.00	0.00

ATOM	4736	O	ALA	X	314	27.312	37.254	57.910	0.00	0.00
ATOM	4737	N	GLY	X	315	28.960	36.750	56.555	0.00	0.00
ATOM	4738	H	GLY	X	315	29.955	36.610	56.455	0.00	0.00
ATOM	4739	CA	GLY	X	315	28.114	36.764	55.311	0.00	0.00
ATOM	4740	HA2	GLY	X	315	27.403	37.586	55.402	0.00	0.00
ATOM	4741	HA3	GLY	X	315	28.571	37.070	54.370	0.00	0.00
ATOM	4742	C	GLY	X	315	27.410	35.439	55.014	0.00	0.00
ATOM	4743	O	GLY	X	315	28.120	34.447	55.153	0.00	0.00
ATOM	4744	N	ASP	X	316	26.171	35.296	54.512	0.00	0.00
ATOM	4745	H	ASP	X	316	25.763	36.186	54.265	0.00	0.00
ATOM	4746	CA	ASP	X	316	25.823	34.143	53.693	0.00	0.00
ATOM	4747	HA	ASP	X	316	26.418	33.259	53.919	0.00	0.00
ATOM	4748	CB	ASP	X	316	24.410	33.797	54.001	0.00	0.00
ATOM	4749	HB2	ASP	X	316	24.348	33.824	55.089	0.00	0.00
ATOM	4750	HB3	ASP	X	316	23.703	34.557	53.669	0.00	0.00
ATOM	4751	CG	ASP	X	316	24.021	32.366	53.609	0.00	0.00
ATOM	4752	OD1	ASP	X	316	24.933	31.526	53.757	0.00	0.00
ATOM	4753	OD2	ASP	X	316	22.931	32.038	53.147	0.00	0.00
ATOM	4754	C	ASP	X	316	25.913	34.365	52.159	0.00	0.00
ATOM	4755	O	ASP	X	316	25.537	35.382	51.635	0.00	0.00
ATOM	4756	N	PHE	X	317	26.300	33.379	51.394	0.00	0.00
ATOM	4757	H	PHE	X	317	26.470	32.478	51.817	0.00	0.00
ATOM	4758	CA	PHE	X	317	26.512	33.447	49.947	0.00	0.00
ATOM	4759	HA	PHE	X	317	26.216	34.445	49.623	0.00	0.00
ATOM	4760	CB	PHE	X	317	28.003	33.234	49.669	0.00	0.00
ATOM	4761	HB2	PHE	X	317	28.346	32.244	49.969	0.00	0.00
ATOM	4762	HB3	PHE	X	317	28.224	33.335	48.606	0.00	0.00
ATOM	4763	CG	PHE	X	317	28.754	34.254	50.384	0.00	0.00
ATOM	4764	CD1	PHE	X	317	28.799	35.567	49.858	0.00	0.00
ATOM	4765	HD1	PHE	X	317	28.303	35.789	48.925	0.00	0.00
ATOM	4766	CE1	PHE	X	317	29.393	36.645	50.569	0.00	0.00
ATOM	4767	HE1	PHE	X	317	29.432	37.662	50.207	0.00	0.00
ATOM	4768	CZ	PHE	X	317	30.041	36.426	51.783	0.00	0.00
ATOM	4769	HZ	PHE	X	317	30.504	37.271	52.269	0.00	0.00
ATOM	4770	CE2	PHE	X	317	30.013	35.184	52.333	0.00	0.00
ATOM	4771	HE2	PHE	X	317	30.411	35.003	53.320	0.00	0.00
ATOM	4772	CD2	PHE	X	317	29.395	34.095	51.681	0.00	0.00
ATOM	4773	HD2	PHE	X	317	29.325	33.167	52.228	0.00	0.00
ATOM	4774	C	PHE	X	317	25.749	32.383	49.105	0.00	0.00
ATOM	4775	O	PHE	X	317	26.021	32.277	47.923	0.00	0.00
ATOM	4776	N	HIE	X	318	24.893	31.586	49.654	0.00	0.00
ATOM	4777	H	HIE	X	318	24.793	31.620	50.659	0.00	0.00
ATOM	4778	CA	HIE	X	318	23.904	30.644	49.015	0.00	0.00
ATOM	4779	HA	HIE	X	318	24.452	29.703	48.966	0.00	0.00
ATOM	4780	CB	HIE	X	318	22.586	30.644	49.860	0.00	0.00
ATOM	4781	HB2	HIE	X	318	22.777	30.606	50.932	0.00	0.00
ATOM	4782	HB3	HIE	X	318	22.070	31.583	49.660	0.00	0.00
ATOM	4783	CG	HIE	X	318	21.615	29.457	49.599	0.00	0.00
ATOM	4784	ND1	HIE	X	318	21.996	28.241	49.085	0.00	0.00
ATOM	4785	CE1	HIE	X	318	20.918	27.418	49.057	0.00	0.00
ATOM	4786	HE1	HIE	X	318	20.934	26.349	48.904	0.00	0.00
ATOM	4787	NE2	HIE	X	318	19.868	28.059	49.541	0.00	0.00
ATOM	4788	HE2	HIE	X	318	18.934	27.724	49.726	0.00	0.00
ATOM	4789	CD2	HIE	X	318	20.237	29.340	49.832	0.00	0.00
ATOM	4790	HD2	HIE	X	318	19.553	30.055	50.264	0.00	0.00
ATOM	4791	C	HIE	X	318	23.612	30.731	47.475	0.00	0.00
ATOM	4792	O	HIE	X	318	23.003	31.677	46.971	0.00	0.00
ATOM	4793	N	GLY	X	319	24.124	29.810	46.686	0.00	0.00
ATOM	4794	H	GLY	X	319	24.535	28.980	47.088	0.00	0.00
ATOM	4795	CA	GLY	X	319	23.897	29.638	45.230	0.00	0.00
ATOM	4796	HA2	GLY	X	319	24.167	28.646	44.870	0.00	0.00
ATOM	4797	HA3	GLY	X	319	22.837	29.888	45.173	0.00	0.00
ATOM	4798	C	GLY	X	319	24.665	30.667	44.396	0.00	0.00
ATOM	4799	O	GLY	X	319	24.507	30.663	43.153	0.00	0.00
ATOM	4800	N	LEU	X	320	25.527	31.534	44.943	0.00	0.00
ATOM	4801	H	LEU	X	320	25.548	31.571	45.952	0.00	0.00
ATOM	4802	CA	LEU	X	320	26.310	32.443	44.179	0.00	0.00

ATOM	4803	HA	LEU	X	320	25.655	32.831	43.399	0.00	0.00
ATOM	4804	CB	LEU	X	320	26.844	33.641	45.012	0.00	0.00
ATOM	4805	HB2	LEU	X	320	27.310	33.098	45.835	0.00	0.00
ATOM	4806	HB3	LEU	X	320	27.601	34.244	44.512	0.00	0.00
ATOM	4807	CG	LEU	X	320	25.722	34.565	45.587	0.00	0.00
ATOM	4808	HG	LEU	X	320	25.209	34.046	46.397	0.00	0.00
ATOM	4809	CD1	LEU	X	320	26.224	35.969	45.992	0.00	0.00
ATOM	4810	HD11	LEU	X	320	26.683	35.911	46.979	0.00	0.00
ATOM	4811	HD12	LEU	X	320	25.384	36.660	46.058	0.00	0.00
ATOM	4812	HD13	LEU	X	320	26.826	36.395	45.189	0.00	0.00
ATOM	4813	CD2	LEU	X	320	24.596	34.824	44.584	0.00	0.00
ATOM	4814	HD21	LEU	X	320	25.000	35.152	43.627	0.00	0.00
ATOM	4815	HD22	LEU	X	320	24.094	33.870	44.422	0.00	0.00
ATOM	4816	HD23	LEU	X	320	23.874	35.580	44.892	0.00	0.00
ATOM	4817	C	LEU	X	320	27.507	31.722	43.471	0.00	0.00
ATOM	4818	O	LEU	X	320	28.160	30.828	43.955	0.00	0.00
ATOM	4819	N	GLN	X	321	27.923	32.272	42.256	0.00	0.00
ATOM	4820	H	GLN	X	321	27.369	33.048	41.924	0.00	0.00
ATOM	4821	CA	GLN	X	321	28.852	31.595	41.339	0.00	0.00
ATOM	4822	HA	GLN	X	321	29.033	30.604	41.754	0.00	0.00
ATOM	4823	CB	GLN	X	321	28.310	31.471	39.958	0.00	0.00
ATOM	4824	HB2	GLN	X	321	28.121	32.475	39.579	0.00	0.00
ATOM	4825	HB3	GLN	X	321	28.958	30.866	39.325	0.00	0.00
ATOM	4826	CG	GLN	X	321	26.922	30.890	39.877	0.00	0.00
ATOM	4827	HG2	GLN	X	321	26.905	29.963	40.449	0.00	0.00
ATOM	4828	HG3	GLN	X	321	26.290	31.629	40.370	0.00	0.00
ATOM	4829	CD	GLN	X	321	26.422	30.633	38.479	0.00	0.00
ATOM	4830	OE1	GLN	X	321	26.694	31.391	37.516	0.00	0.00
ATOM	4831	NE2	GLN	X	321	25.906	29.472	38.175	0.00	0.00
ATOM	4832	HE21	GLN	X	321	25.803	29.187	37.212	0.00	0.00
ATOM	4833	HE22	GLN	X	321	25.689	28.724	38.818	0.00	0.00
ATOM	4834	C	GLN	X	321	30.232	32.286	41.313	0.00	0.00
ATOM	4835	O	GLN	X	321	30.319	33.417	40.815	0.00	0.00
ATOM	4836	N	VAL	X	322	31.277	31.655	41.774	0.00	0.00
ATOM	4837	H	VAL	X	322	31.090	30.772	42.229	0.00	0.00
ATOM	4838	CA	VAL	X	322	32.642	32.232	42.095	0.00	0.00
ATOM	4839	HA	VAL	X	322	32.695	33.148	41.507	0.00	0.00
ATOM	4840	CB	VAL	X	322	32.803	32.485	43.660	0.00	0.00
ATOM	4841	HB	VAL	X	322	33.124	31.571	44.161	0.00	0.00
ATOM	4842	CG1	VAL	X	322	33.961	33.478	43.830	0.00	0.00
ATOM	4843	HG11	VAL	X	322	34.913	32.986	43.632	0.00	0.00
ATOM	4844	HG12	VAL	X	322	33.777	34.402	43.281	0.00	0.00
ATOM	4845	HG13	VAL	X	322	34.030	33.884	44.840	0.00	0.00
ATOM	4846	CG2	VAL	X	322	31.544	33.082	44.346	0.00	0.00
ATOM	4847	HG21	VAL	X	322	31.248	33.926	43.724	0.00	0.00
ATOM	4848	HG22	VAL	X	322	31.933	33.376	45.321	0.00	0.00
ATOM	4849	HG23	VAL	X	322	30.753	32.351	44.510	0.00	0.00
ATOM	4850	C	VAL	X	322	33.751	31.300	41.687	0.00	0.00
ATOM	4851	O	VAL	X	322	33.595	30.087	41.874	0.00	0.00
ATOM	4852	N	LEU	X	323	34.867	31.805	41.119	0.00	0.00
ATOM	4853	H	LEU	X	323	34.900	32.771	40.826	0.00	0.00
ATOM	4854	CA	LEU	X	323	36.096	31.047	40.689	0.00	0.00
ATOM	4855	HA	LEU	X	323	35.931	30.007	40.971	0.00	0.00
ATOM	4856	CB	LEU	X	323	36.277	31.297	39.167	0.00	0.00
ATOM	4857	HB2	LEU	X	323	35.337	31.113	38.647	0.00	0.00
ATOM	4858	HB3	LEU	X	323	36.545	32.330	38.947	0.00	0.00
ATOM	4859	CG	LEU	X	323	37.340	30.450	38.483	0.00	0.00
ATOM	4860	HG	LEU	X	323	36.988	29.422	38.567	0.00	0.00
ATOM	4861	CD1	LEU	X	323	37.244	30.771	36.957	0.00	0.00
ATOM	4862	HD11	LEU	X	323	36.237	30.558	36.598	0.00	0.00
ATOM	4863	HD12	LEU	X	323	37.875	30.154	36.318	0.00	0.00
ATOM	4864	HD13	LEU	X	323	37.439	31.831	36.793	0.00	0.00
ATOM	4865	CD2	LEU	X	323	38.730	30.718	38.971	0.00	0.00
ATOM	4866	HD21	LEU	X	323	38.974	30.030	39.780	0.00	0.00
ATOM	4867	HD22	LEU	X	323	39.462	30.652	38.166	0.00	0.00
ATOM	4868	HD23	LEU	X	323	38.764	31.731	39.372	0.00	0.00
ATOM	4869	C	LEU	X	323	37.248	31.671	41.505	0.00	0.00

ATOM	4870	O	LEU	X	323	37.364	32.924	41.529	0.00	0.00
ATOM	4871	N	VAL	X	324	38.188	30.896	42.025	0.00	0.00
ATOM	4872	H	VAL	X	324	38.208	29.922	41.760	0.00	0.00
ATOM	4873	CA	VAL	X	324	39.334	31.412	42.755	0.00	0.00
ATOM	4874	HA	VAL	X	324	39.549	32.444	42.476	0.00	0.00
ATOM	4875	CB	VAL	X	324	39.025	31.549	44.271	0.00	0.00
ATOM	4876	HB	VAL	X	324	39.895	32.071	44.670	0.00	0.00
ATOM	4877	CG1	VAL	X	324	37.828	32.437	44.645	0.00	0.00
ATOM	4878	HG11	VAL	X	324	37.943	32.758	45.681	0.00	0.00
ATOM	4879	HG12	VAL	X	324	37.674	33.252	43.938	0.00	0.00
ATOM	4880	HG13	VAL	X	324	36.911	31.854	44.556	0.00	0.00
ATOM	4881	CG2	VAL	X	324	38.750	30.184	44.972	0.00	0.00
ATOM	4882	HG21	VAL	X	324	37.975	29.670	44.404	0.00	0.00
ATOM	4883	HG22	VAL	X	324	38.554	30.318	46.035	0.00	0.00
ATOM	4884	HG23	VAL	X	324	39.672	29.611	44.866	0.00	0.00
ATOM	4885	C	VAL	X	324	40.529	30.569	42.604	0.00	0.00
ATOM	4886	O	VAL	X	324	40.445	29.319	42.448	0.00	0.00
ATOM	4887	N	GLY	X	325	41.727	31.188	42.714	0.00	0.00
ATOM	4888	H	GLY	X	325	41.759	32.172	42.938	0.00	0.00
ATOM	4889	CA	GLY	X	325	42.956	30.388	42.594	0.00	0.00
ATOM	4890	HA2	GLY	X	325	42.951	29.586	43.333	0.00	0.00
ATOM	4891	HA3	GLY	X	325	42.846	29.622	41.826	0.00	0.00
ATOM	4892	C	GLY	X	325	44.257	31.198	42.578	0.00	0.00
ATOM	4893	O	GLY	X	325	44.283	32.466	42.590	0.00	0.00
ATOM	4894	N	VAL	X	326	45.388	30.414	42.575	0.00	0.00
ATOM	4895	H	VAL	X	326	45.249	29.453	42.297	0.00	0.00
ATOM	4896	CA	VAL	X	326	46.764	30.871	42.706	0.00	0.00
ATOM	4897	HA	VAL	X	326	46.744	31.943	42.507	0.00	0.00
ATOM	4898	CB	VAL	X	326	47.281	30.639	44.124	0.00	0.00
ATOM	4899	HB	VAL	X	326	48.292	31.041	44.192	0.00	0.00
ATOM	4900	CG1	VAL	X	326	46.327	31.401	45.069	0.00	0.00
ATOM	4901	HG11	VAL	X	326	46.179	32.374	44.599	0.00	0.00
ATOM	4902	HG12	VAL	X	326	45.370	30.887	45.163	0.00	0.00
ATOM	4903	HG13	VAL	X	326	46.773	31.517	46.057	0.00	0.00
ATOM	4904	CG2	VAL	X	326	47.353	29.163	44.521	0.00	0.00
ATOM	4905	HG21	VAL	X	326	46.474	28.625	44.166	0.00	0.00
ATOM	4906	HG22	VAL	X	326	47.633	29.072	45.571	0.00	0.00
ATOM	4907	HG23	VAL	X	326	48.152	28.823	43.863	0.00	0.00
ATOM	4908	C	VAL	X	326	47.651	30.175	41.715	0.00	0.00
ATOM	4909	O	VAL	X	326	47.293	29.135	41.128	0.00	0.00
ATOM	4910	N	VAL	X	327	48.908	30.609	41.586	0.00	0.00
ATOM	4911	H	VAL	X	327	49.096	31.498	42.028	0.00	0.00
ATOM	4912	CA	VAL	X	327	49.970	29.841	40.898	0.00	0.00
ATOM	4913	HA	VAL	X	327	49.521	29.206	40.135	0.00	0.00
ATOM	4914	CB	VAL	X	327	50.899	30.874	40.124	0.00	0.00
ATOM	4915	HB	VAL	X	327	51.312	30.246	39.334	0.00	0.00
ATOM	4916	CG1	VAL	X	327	50.189	32.034	39.346	0.00	0.00
ATOM	4917	HG11	VAL	X	327	49.614	32.709	39.979	0.00	0.00
ATOM	4918	HG12	VAL	X	327	50.887	32.592	38.722	0.00	0.00
ATOM	4919	HG13	VAL	X	327	49.473	31.547	38.683	0.00	0.00
ATOM	4920	CG2	VAL	X	327	52.074	31.589	40.883	0.00	0.00
ATOM	4921	HG21	VAL	X	327	52.477	30.956	41.674	0.00	0.00
ATOM	4922	HG22	VAL	X	327	51.807	32.578	41.256	0.00	0.00
ATOM	4923	HG23	VAL	X	327	52.875	31.843	40.189	0.00	0.00
ATOM	4924	C	VAL	X	327	50.858	28.938	41.714	0.00	0.00
ATOM	4925	O	VAL	X	327	50.784	29.018	43.001	0.00	0.00
ATOM	4926	N	LYS	X	328	51.766	28.131	41.136	0.00	0.00
ATOM	4927	H	LYS	X	328	51.841	27.967	40.143	0.00	0.00
ATOM	4928	CA	LYS	X	328	52.497	27.085	41.866	0.00	0.00
ATOM	4929	HA	LYS	X	328	51.824	26.419	42.406	0.00	0.00
ATOM	4930	CB	LYS	X	328	53.290	26.320	40.789	0.00	0.00
ATOM	4931	HB2	LYS	X	328	52.597	26.145	39.966	0.00	0.00
ATOM	4932	HB3	LYS	X	328	54.069	26.988	40.422	0.00	0.00
ATOM	4933	CG	LYS	X	328	53.839	25.035	41.377	0.00	0.00
ATOM	4934	HG2	LYS	X	328	54.400	25.248	42.287	0.00	0.00
ATOM	4935	HG3	LYS	X	328	53.041	24.375	41.716	0.00	0.00
ATOM	4936	CD	LYS	X	328	54.572	24.242	40.296	0.00	0.00

ATOM	4937	HD2	LYS	X	328	54.836	23.250	40.665	0.00	0.00
ATOM	4938	HD3	LYS	X	328	54.037	24.147	39.351	0.00	0.00
ATOM	4939	CE	LYS	X	328	55.913	24.936	39.914	0.00	0.00
ATOM	4940	HE2	LYS	X	328	56.443	24.348	39.164	0.00	0.00
ATOM	4941	HE3	LYS	X	328	55.790	25.983	39.636	0.00	0.00
ATOM	4942	NZ	LYS	X	328	56.793	24.946	41.092	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	56.491	24.410	41.892	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	57.760	24.769	40.861	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	56.813	25.846	41.550	0.00	0.00
ATOM	4946	C	LYS	X	328	53.556	27.647	42.881	0.00	0.00
ATOM	4947	O	LYS	X	328	53.710	27.000	43.960	0.00	0.00
ATOM	4948	N	ASP	X	329	54.115	28.883	42.630	0.00	0.00
ATOM	4949	H	ASP	X	329	53.900	29.357	41.765	0.00	0.00
ATOM	4950	CA	ASP	X	329	55.069	29.472	43.638	0.00	0.00
ATOM	4951	HA	ASP	X	329	55.114	28.809	44.502	0.00	0.00
ATOM	4952	CB	ASP	X	329	56.540	29.400	43.061	0.00	0.00
ATOM	4953	HB2	ASP	X	329	56.696	30.252	42.400	0.00	0.00
ATOM	4954	HB3	ASP	X	329	57.216	29.494	43.910	0.00	0.00
ATOM	4955	CG	ASP	X	329	56.784	28.041	42.488	0.00	0.00
ATOM	4956	OD1	ASP	X	329	57.218	27.135	43.208	0.00	0.00
ATOM	4957	OD2	ASP	X	329	56.542	27.840	41.269	0.00	0.00
ATOM	4958	C	ASP	X	329	54.719	30.859	44.192	0.00	0.00
ATOM	4959	O	ASP	X	329	55.506	31.322	45.046	0.00	0.00
ATOM	4960	N	GLU	X	330	53.642	31.451	43.808	0.00	0.00
ATOM	4961	H	GLU	X	330	52.941	30.859	43.385	0.00	0.00
ATOM	4962	CA	GLU	X	330	53.219	32.784	44.234	0.00	0.00
ATOM	4963	HA	GLU	X	330	52.787	33.218	43.333	0.00	0.00
ATOM	4964	CB	GLU	X	330	52.111	32.573	45.251	0.00	0.00
ATOM	4965	HB2	GLU	X	330	52.491	31.757	45.866	0.00	0.00
ATOM	4966	HB3	GLU	X	330	51.966	33.477	45.842	0.00	0.00
ATOM	4967	CG	GLU	X	330	50.716	32.280	44.644	0.00	0.00
ATOM	4968	HG2	GLU	X	330	50.708	31.312	44.144	0.00	0.00
ATOM	4969	HG3	GLU	X	330	49.993	32.163	45.451	0.00	0.00
ATOM	4970	CD	GLU	X	330	50.178	33.400	43.677	0.00	0.00
ATOM	4971	OE1	GLU	X	330	50.356	34.570	44.005	0.00	0.00
ATOM	4972	OE2	GLU	X	330	49.538	33.002	42.636	0.00	0.00
ATOM	4973	C	GLU	X	330	54.287	33.791	44.798	0.00	0.00
ATOM	4974	O	GLU	X	330	54.978	34.560	44.028	0.00	0.00
ATOM	4975	N	GLY	X	331	54.379	33.833	46.141	0.00	0.00
ATOM	4976	H	GLY	X	331	53.821	33.139	46.618	0.00	0.00
ATOM	4977	CA	GLY	X	331	55.240	34.805	46.888	0.00	0.00
ATOM	4978	HA2	GLY	X	331	54.948	35.803	46.561	0.00	0.00
ATOM	4979	HA3	GLY	X	331	54.971	34.647	47.933	0.00	0.00
ATOM	4980	C	GLY	X	331	56.740	34.700	46.647	0.00	0.00
ATOM	4981	O	GLY	X	331	57.497	35.622	47.051	0.00	0.00
ATOM	4982	N	SER	X	332	57.218	33.709	45.917	0.00	0.00
ATOM	4983	H	SER	X	332	56.585	33.023	45.530	0.00	0.00
ATOM	4984	CA	SER	X	332	58.589	33.657	45.387	0.00	0.00
ATOM	4985	HA	SER	X	332	59.310	33.526	46.193	0.00	0.00
ATOM	4986	CB	SER	X	332	58.727	32.377	44.526	0.00	0.00
ATOM	4987	HB2	SER	X	332	59.710	32.387	44.055	0.00	0.00
ATOM	4988	HB3	SER	X	332	58.539	31.418	45.009	0.00	0.00
ATOM	4989	OG	SER	X	332	57.853	32.507	43.381	0.00	0.00
ATOM	4990	HG	SER	X	332	58.154	31.942	42.665	0.00	0.00
ATOM	4991	C	SER	X	332	58.909	34.922	44.559	0.00	0.00
ATOM	4992	O	SER	X	332	60.025	35.392	44.512	0.00	0.00
ATOM	4993	N	TYR	X	333	57.939	35.518	43.841	0.00	0.00
ATOM	4994	H	TYR	X	333	57.013	35.115	43.815	0.00	0.00
ATOM	4995	CA	TYR	X	333	58.050	36.775	43.009	0.00	0.00
ATOM	4996	HA	TYR	X	333	58.797	36.508	42.260	0.00	0.00
ATOM	4997	CB	TYR	X	333	56.765	37.146	42.232	0.00	0.00
ATOM	4998	HB2	TYR	X	333	56.764	36.510	41.346	0.00	0.00
ATOM	4999	HB3	TYR	X	333	55.894	36.827	42.805	0.00	0.00
ATOM	5000	CG	TYR	X	333	56.583	38.628	41.984	0.00	0.00
ATOM	5001	CD1	TYR	X	333	56.985	39.231	40.831	0.00	0.00
ATOM	5002	HD1	TYR	X	333	57.619	38.715	40.125	0.00	0.00
ATOM	5003	CE1	TYR	X	333	56.788	40.590	40.566	0.00	0.00

ATOM	5004	HE1	TYR	X	333	57.210	41.014	39.667	0.00	0.00
ATOM	5005	CZ	TYR	X	333	56.197	41.402	41.565	0.00	0.00
ATOM	5006	OH	TYR	X	333	55.984	42.708	41.473	0.00	0.00
ATOM	5007	HH	TYR	X	333	56.318	43.196	40.717	0.00	0.00
ATOM	5008	CE2	TYR	X	333	55.566	40.732	42.677	0.00	0.00
ATOM	5009	HE2	TYR	X	333	54.897	41.269	43.333	0.00	0.00
ATOM	5010	CD2	TYR	X	333	55.755	39.339	42.898	0.00	0.00
ATOM	5011	HD2	TYR	X	333	55.298	38.865	43.754	0.00	0.00
ATOM	5012	C	TYR	X	333	58.517	37.991	43.823	0.00	0.00
ATOM	5013	O	TYR	X	333	59.118	38.830	43.181	0.00	0.00
ATOM	5014	N	PHE	X	334	58.178	38.021	45.137	0.00	0.00
ATOM	5015	H	PHE	X	334	57.561	37.279	45.434	0.00	0.00
ATOM	5016	CA	PHE	X	334	58.350	39.165	45.943	0.00	0.00
ATOM	5017	HA	PHE	X	334	58.241	40.027	45.285	0.00	0.00
ATOM	5018	CB	PHE	X	334	57.275	39.218	47.085	0.00	0.00
ATOM	5019	HB2	PHE	X	334	57.077	38.220	47.478	0.00	0.00
ATOM	5020	HB3	PHE	X	334	57.749	39.885	47.805	0.00	0.00
ATOM	5021	CG	PHE	X	334	56.032	39.966	46.551	0.00	0.00
ATOM	5022	CD1	PHE	X	334	54.809	39.315	46.315	0.00	0.00
ATOM	5023	HD1	PHE	X	334	54.740	38.243	46.208	0.00	0.00
ATOM	5024	CE1	PHE	X	334	53.688	40.110	45.934	0.00	0.00
ATOM	5025	HE1	PHE	X	334	52.746	39.621	45.730	0.00	0.00
ATOM	5026	CZ	PHE	X	334	53.794	41.454	45.615	0.00	0.00
ATOM	5027	HZ	PHE	X	334	52.981	41.977	45.133	0.00	0.00
ATOM	5028	CE2	PHE	X	334	54.967	42.101	46.028	0.00	0.00
ATOM	5029	HE2	PHE	X	334	55.174	43.129	45.768	0.00	0.00
ATOM	5030	CD2	PHE	X	334	56.118	41.348	46.423	0.00	0.00
ATOM	5031	HD2	PHE	X	334	57.037	41.885	46.608	0.00	0.00
ATOM	5032	C	PHE	X	334	59.780	39.231	46.563	0.00	0.00
ATOM	5033	O	PHE	X	334	60.267	40.265	47.044	0.00	0.00
ATOM	5034	N	LEU	X	335	60.546	38.109	46.541	0.00	0.00
ATOM	5035	H	LEU	X	335	60.153	37.315	46.057	0.00	0.00
ATOM	5036	CA	LEU	X	335	61.828	37.924	47.217	0.00	0.00
ATOM	5037	HA	LEU	X	335	61.770	38.093	48.292	0.00	0.00
ATOM	5038	CB	LEU	X	335	62.285	36.431	47.079	0.00	0.00
ATOM	5039	HB2	LEU	X	335	62.372	36.248	46.008	0.00	0.00
ATOM	5040	HB3	LEU	X	335	63.275	36.282	47.508	0.00	0.00
ATOM	5041	CG	LEU	X	335	61.233	35.439	47.681	0.00	0.00
ATOM	5042	HG	LEU	X	335	60.322	35.448	47.083	0.00	0.00
ATOM	5043	CD1	LEU	X	335	61.765	33.966	47.616	0.00	0.00
ATOM	5044	HD11	LEU	X	335	61.648	33.517	46.629	0.00	0.00
ATOM	5045	HD12	LEU	X	335	61.311	33.258	48.309	0.00	0.00
ATOM	5046	HD13	LEU	X	335	62.825	34.112	47.826	0.00	0.00
ATOM	5047	CD2	LEU	X	335	60.748	35.786	49.136	0.00	0.00
ATOM	5048	HD21	LEU	X	335	60.022	35.053	49.487	0.00	0.00
ATOM	5049	HD22	LEU	X	335	61.623	35.751	49.784	0.00	0.00
ATOM	5050	HD23	LEU	X	335	60.304	36.772	49.276	0.00	0.00
ATOM	5051	C	LEU	X	335	62.940	38.977	46.848	0.00	0.00
ATOM	5052	O	LEU	X	335	63.725	39.391	47.702	0.00	0.00
ATOM	5053	N	VAL	X	336	62.948	39.383	45.564	0.00	0.00
ATOM	5054	H	VAL	X	336	62.313	38.868	44.971	0.00	0.00
ATOM	5055	CA	VAL	X	336	63.809	40.474	45.048	0.00	0.00
ATOM	5056	HA	VAL	X	336	64.753	40.066	45.412	0.00	0.00
ATOM	5057	CB	VAL	X	336	63.879	40.628	43.514	0.00	0.00
ATOM	5058	HB	VAL	X	336	64.716	41.322	43.430	0.00	0.00
ATOM	5059	CG1	VAL	X	336	64.364	39.451	42.741	0.00	0.00
ATOM	5060	HG11	VAL	X	336	64.370	39.678	41.675	0.00	0.00
ATOM	5061	HG12	VAL	X	336	65.399	39.149	42.905	0.00	0.00
ATOM	5062	HG13	VAL	X	336	63.705	38.584	42.699	0.00	0.00
ATOM	5063	CG2	VAL	X	336	62.538	41.128	42.888	0.00	0.00
ATOM	5064	HG21	VAL	X	336	62.624	41.372	41.829	0.00	0.00
ATOM	5065	HG22	VAL	X	336	62.268	42.084	43.337	0.00	0.00
ATOM	5066	HG23	VAL	X	336	61.703	40.433	42.969	0.00	0.00
ATOM	5067	C	VAL	X	336	63.636	41.875	45.722	0.00	0.00
ATOM	5068	O	VAL	X	336	64.481	42.692	45.567	0.00	0.00
ATOM	5069	N	TYR	X	337	62.456	42.123	46.368	0.00	0.00
ATOM	5070	H	TYR	X	337	61.874	41.298	46.349	0.00	0.00

ATOM	5071	CA	TYR	X	337	62.046	43.348	47.036	0.00	0.00
ATOM	5072	HA	TYR	X	337	62.653	44.127	46.574	0.00	0.00
ATOM	5073	CB	TYR	X	337	60.529	43.525	46.713	0.00	0.00
ATOM	5074	HB2	TYR	X	337	59.970	42.673	47.098	0.00	0.00
ATOM	5075	HB3	TYR	X	337	60.225	44.422	47.254	0.00	0.00
ATOM	5076	CG	TYR	X	337	60.242	43.740	45.221	0.00	0.00
ATOM	5077	CD1	TYR	X	337	60.919	44.811	44.551	0.00	0.00
ATOM	5078	HD1	TYR	X	337	61.565	45.436	45.150	0.00	0.00
ATOM	5079	CE1	TYR	X	337	60.840	44.953	43.161	0.00	0.00
ATOM	5080	HE1	TYR	X	337	61.207	45.845	42.674	0.00	0.00
ATOM	5081	CZ	TYR	X	337	60.083	44.089	42.367	0.00	0.00
ATOM	5082	OH	TYR	X	337	59.833	44.429	41.026	0.00	0.00
ATOM	5083	HH	TYR	X	337	60.516	45.044	40.750	0.00	0.00
ATOM	5084	CE2	TYR	X	337	59.412	43.027	43.006	0.00	0.00
ATOM	5085	HE2	TYR	X	337	58.688	42.379	42.534	0.00	0.00
ATOM	5086	CD2	TYR	X	337	59.515	42.840	44.382	0.00	0.00
ATOM	5087	HD2	TYR	X	337	58.884	42.098	44.849	0.00	0.00
ATOM	5088	C	TYR	X	337	62.373	43.426	48.539	0.00	0.00
ATOM	5089	O	TYR	X	337	61.958	44.429	49.153	0.00	0.00
ATOM	5090	N	GLY	X	338	63.229	42.574	49.055	0.00	0.00
ATOM	5091	H	GLY	X	338	63.762	41.990	48.426	0.00	0.00
ATOM	5092	CA	GLY	X	338	63.606	42.641	50.500	0.00	0.00
ATOM	5093	HA2	GLY	X	338	64.087	43.612	50.625	0.00	0.00
ATOM	5094	HA3	GLY	X	338	62.658	42.653	51.037	0.00	0.00
ATOM	5095	C	GLY	X	338	64.327	41.480	51.069	0.00	0.00
ATOM	5096	O	GLY	X	338	64.863	41.588	52.162	0.00	0.00
ATOM	5097	N	ALA	X	339	64.562	40.345	50.358	0.00	0.00
ATOM	5098	H	ALA	X	339	64.258	40.306	49.395	0.00	0.00
ATOM	5099	CA	ALA	X	339	65.125	39.117	50.906	0.00	0.00
ATOM	5100	HA	ALA	X	339	64.857	39.096	51.962	0.00	0.00
ATOM	5101	CB	ALA	X	339	64.377	37.847	50.419	0.00	0.00
ATOM	5102	HB1	ALA	X	339	64.852	36.972	50.862	0.00	0.00
ATOM	5103	HB2	ALA	X	339	64.541	37.786	49.343	0.00	0.00
ATOM	5104	HB3	ALA	X	339	63.318	37.969	50.647	0.00	0.00
ATOM	5105	C	ALA	X	339	66.635	39.058	50.795	0.00	0.00
ATOM	5106	O	ALA	X	339	67.194	39.518	49.781	0.00	0.00
ATOM	5107	N	PRO	X	340	67.350	38.579	51.810	0.00	0.00
ATOM	5108	CD	PRO	X	340	66.781	37.739	52.880	0.00	0.00
ATOM	5109	HD2	PRO	X	340	66.401	36.782	52.522	0.00	0.00
ATOM	5110	HD3	PRO	X	340	66.000	38.238	53.453	0.00	0.00
ATOM	5111	CG	PRO	X	340	67.980	37.354	53.758	0.00	0.00
ATOM	5112	HG2	PRO	X	340	68.458	36.488	53.299	0.00	0.00
ATOM	5113	HG3	PRO	X	340	67.722	37.209	54.807	0.00	0.00
ATOM	5114	CB	PRO	X	340	68.931	38.565	53.516	0.00	0.00
ATOM	5115	HB2	PRO	X	340	69.959	38.244	53.686	0.00	0.00
ATOM	5116	HB3	PRO	X	340	68.780	39.349	54.259	0.00	0.00
ATOM	5117	CA	PRO	X	340	68.737	38.953	52.024	0.00	0.00
ATOM	5118	HA	PRO	X	340	68.989	40.003	51.875	0.00	0.00
ATOM	5119	C	PRO	X	340	69.550	38.103	51.060	0.00	0.00
ATOM	5120	O	PRO	X	340	69.366	36.860	51.016	0.00	0.00
ATOM	5121	N	GLY	X	341	70.193	38.776	50.143	0.00	0.00
ATOM	5122	H	GLY	X	341	70.037	39.767	50.024	0.00	0.00
ATOM	5123	CA	GLY	X	341	71.074	38.115	49.120	0.00	0.00
ATOM	5124	HA2	GLY	X	341	71.992	38.688	48.991	0.00	0.00
ATOM	5125	HA3	GLY	X	341	71.294	37.116	49.496	0.00	0.00
ATOM	5126	C	GLY	X	341	70.425	37.965	47.794	0.00	0.00
ATOM	5127	O	GLY	X	341	71.078	37.540	46.850	0.00	0.00
ATOM	5128	N	PHE	X	342	69.135	38.266	47.614	0.00	0.00
ATOM	5129	H	PHE	X	342	68.601	38.558	48.420	0.00	0.00
ATOM	5130	CA	PHE	X	342	68.457	38.168	46.323	0.00	0.00
ATOM	5131	HA	PHE	X	342	68.777	37.360	45.665	0.00	0.00
ATOM	5132	CB	PHE	X	342	66.967	37.882	46.633	0.00	0.00
ATOM	5133	HB2	PHE	X	342	66.536	38.679	47.239	0.00	0.00
ATOM	5134	HB3	PHE	X	342	66.406	38.053	45.714	0.00	0.00
ATOM	5135	CG	PHE	X	342	66.589	36.532	47.248	0.00	0.00
ATOM	5136	CD1	PHE	X	342	65.960	35.479	46.556	0.00	0.00
ATOM	5137	HD1	PHE	X	342	65.751	35.612	45.505	0.00	0.00

ATOM	5138	CE1	PHE	X	342	65.443	34.393	47.207	0.00	0.00
ATOM	5139	HE1	PHE	X	342	64.896	33.657	46.636	0.00	0.00
ATOM	5140	CZ	PHE	X	342	65.701	34.230	48.558	0.00	0.00
ATOM	5141	HZ	PHE	X	342	65.327	33.315	48.992	0.00	0.00
ATOM	5142	CE2	PHE	X	342	66.516	35.089	49.220	0.00	0.00
ATOM	5143	HE2	PHE	X	342	66.931	34.908	50.200	0.00	0.00
ATOM	5144	CD2	PHE	X	342	66.951	36.241	48.570	0.00	0.00
ATOM	5145	HD2	PHE	X	342	67.595	36.934	49.090	0.00	0.00
ATOM	5146	C	PHE	X	342	68.562	39.440	45.464	0.00	0.00
ATOM	5147	O	PHE	X	342	68.587	40.589	45.923	0.00	0.00
ATOM	5148	N	SER	X	343	68.471	39.291	44.182	0.00	0.00
ATOM	5149	H	SER	X	343	68.685	38.382	43.798	0.00	0.00
ATOM	5150	CA	SER	X	343	68.212	40.234	43.106	0.00	0.00
ATOM	5151	HA	SER	X	343	67.404	40.906	43.396	0.00	0.00
ATOM	5152	CB	SER	X	343	69.450	41.130	42.789	0.00	0.00
ATOM	5153	HB2	SER	X	343	69.005	41.888	42.146	0.00	0.00
ATOM	5154	HB3	SER	X	343	69.906	41.591	43.666	0.00	0.00
ATOM	5155	OG	SER	X	343	70.402	40.504	42.022	0.00	0.00
ATOM	5156	HG	SER	X	343	71.179	41.010	41.776	0.00	0.00
ATOM	5157	C	SER	X	343	67.773	39.397	41.930	0.00	0.00
ATOM	5158	O	SER	X	343	67.821	38.179	42.035	0.00	0.00
ATOM	5159	N	LYS	X	344	67.585	40.048	40.780	0.00	0.00
ATOM	5160	H	LYS	X	344	67.834	41.027	40.768	0.00	0.00
ATOM	5161	CA	LYS	X	344	66.967	39.454	39.629	0.00	0.00
ATOM	5162	HA	LYS	X	344	66.107	38.874	39.964	0.00	0.00
ATOM	5163	CB	LYS	X	344	66.638	40.552	38.588	0.00	0.00
ATOM	5164	HB2	LYS	X	344	66.259	39.969	37.749	0.00	0.00
ATOM	5165	HB3	LYS	X	344	65.969	41.361	38.880	0.00	0.00
ATOM	5166	CG	LYS	X	344	67.916	41.162	37.917	0.00	0.00
ATOM	5167	HG2	LYS	X	344	68.564	41.494	38.728	0.00	0.00
ATOM	5168	HG3	LYS	X	344	68.389	40.468	37.222	0.00	0.00
ATOM	5169	CD	LYS	X	344	67.525	42.372	37.066	0.00	0.00
ATOM	5170	HD2	LYS	X	344	66.870	42.037	36.262	0.00	0.00
ATOM	5171	HD3	LYS	X	344	66.975	43.126	37.629	0.00	0.00
ATOM	5172	CE	LYS	X	344	68.720	43.100	36.426	0.00	0.00
ATOM	5173	HE2	LYS	X	344	69.396	42.311	36.096	0.00	0.00
ATOM	5174	HE3	LYS	X	344	68.421	43.778	35.627	0.00	0.00
ATOM	5175	NZ	LYS	X	344	69.509	43.904	37.424	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	69.667	43.452	38.314	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	70.400	44.189	37.044	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	69.083	44.807	37.579	0.00	0.00
ATOM	5179	C	LYS	X	344	67.905	38.352	38.950	0.00	0.00
ATOM	5180	O	LYS	X	344	67.453	37.703	37.974	0.00	0.00
ATOM	5181	N	ASP	X	345	69.138	38.172	39.389	0.00	0.00
ATOM	5182	H	ASP	X	345	69.215	38.842	40.140	0.00	0.00
ATOM	5183	CA	ASP	X	345	70.247	37.498	38.795	0.00	0.00
ATOM	5184	HA	ASP	X	345	69.897	36.559	38.365	0.00	0.00
ATOM	5185	CB	ASP	X	345	71.081	38.334	37.773	0.00	0.00
ATOM	5186	HB2	ASP	X	345	72.019	37.865	37.477	0.00	0.00
ATOM	5187	HB3	ASP	X	345	70.477	38.415	36.869	0.00	0.00
ATOM	5188	CG	ASP	X	345	71.378	39.692	38.274	0.00	0.00
ATOM	5189	OD1	ASP	X	345	71.114	40.749	37.706	0.00	0.00
ATOM	5190	OD2	ASP	X	345	72.066	39.746	39.349	0.00	0.00
ATOM	5191	C	ASP	X	345	71.098	36.831	39.915	0.00	0.00
ATOM	5192	O	ASP	X	345	72.078	36.154	39.543	0.00	0.00
ATOM	5193	N	ASN	X	346	70.816	36.928	41.201	0.00	0.00
ATOM	5194	H	ASN	X	346	70.012	37.477	41.470	0.00	0.00
ATOM	5195	CA	ASN	X	346	71.673	36.252	42.191	0.00	0.00
ATOM	5196	HA	ASN	X	346	72.722	36.285	41.898	0.00	0.00
ATOM	5197	CB	ASN	X	346	71.568	36.869	43.582	0.00	0.00
ATOM	5198	HB2	ASN	X	346	71.256	37.910	43.504	0.00	0.00
ATOM	5199	HB3	ASN	X	346	70.770	36.446	44.192	0.00	0.00
ATOM	5200	CG	ASN	X	346	72.865	36.599	44.336	0.00	0.00
ATOM	5201	OD1	ASN	X	346	73.036	35.522	44.949	0.00	0.00
ATOM	5202	ND2	ASN	X	346	73.729	37.604	44.223	0.00	0.00
ATOM	5203	HD21	ASN	X	346	74.679	37.345	44.451	0.00	0.00
ATOM	5204	HD22	ASN	X	346	73.481	38.305	43.540	0.00	0.00

ATOM	5205	C	ASN	X	346	71.414	34.754	42.134	0.00	0.00
ATOM	5206	O	ASN	X	346	70.319	34.447	41.808	0.00	0.00
ATOM	5207	N	GLU	X	347	72.335	33.911	42.428	0.00	0.00
ATOM	5208	H	GLU	X	347	73.275	34.251	42.574	0.00	0.00
ATOM	5209	CA	GLU	X	347	72.103	32.527	42.786	0.00	0.00
ATOM	5210	HA	GLU	X	347	71.556	31.998	42.005	0.00	0.00
ATOM	5211	CB	GLU	X	347	73.536	31.899	42.952	0.00	0.00
ATOM	5212	HB2	GLU	X	347	74.180	32.132	42.103	0.00	0.00
ATOM	5213	HB3	GLU	X	347	74.036	32.205	43.871	0.00	0.00
ATOM	5214	CG	GLU	X	347	73.502	30.333	42.854	0.00	0.00
ATOM	5215	HG2	GLU	X	347	74.445	29.865	43.137	0.00	0.00
ATOM	5216	HG3	GLU	X	347	72.812	29.914	43.586	0.00	0.00
ATOM	5217	CD	GLU	X	347	73.256	29.893	41.422	0.00	0.00
ATOM	5218	OE1	GLU	X	347	72.114	29.460	41.129	0.00	0.00
ATOM	5219	OE2	GLU	X	347	74.102	29.886	40.507	0.00	0.00
ATOM	5220	C	GLU	X	347	71.308	32.234	44.068	0.00	0.00
ATOM	5221	O	GLU	X	347	70.742	31.193	44.307	0.00	0.00
ATOM	5222	N	SER	X	348	71.346	33.201	45.045	0.00	0.00
ATOM	5223	H	SER	X	348	71.871	34.037	44.832	0.00	0.00
ATOM	5224	CA	SER	X	348	70.416	33.465	46.152	0.00	0.00
ATOM	5225	HA	SER	X	348	70.650	34.388	46.684	0.00	0.00
ATOM	5226	CB	SER	X	348	68.964	33.682	45.732	0.00	0.00
ATOM	5227	HB2	SER	X	348	68.484	32.858	45.204	0.00	0.00
ATOM	5228	HB3	SER	X	348	68.376	33.894	46.626	0.00	0.00
ATOM	5229	OG	SER	X	348	68.842	34.788	44.882	0.00	0.00
ATOM	5230	HG	SER	X	348	68.208	34.680	44.169	0.00	0.00
ATOM	5231	C	SER	X	348	70.480	32.310	47.191	0.00	0.00
ATOM	5232	O	SER	X	348	69.456	31.613	47.508	0.00	0.00
ATOM	5233	N	LEU	X	349	71.699	32.079	47.635	0.00	0.00
ATOM	5234	H	LEU	X	349	72.419	32.596	47.151	0.00	0.00
ATOM	5235	CA	LEU	X	349	72.107	31.051	48.567	0.00	0.00
ATOM	5236	HA	LEU	X	349	71.422	30.226	48.370	0.00	0.00
ATOM	5237	CB	LEU	X	349	73.597	30.750	48.354	0.00	0.00
ATOM	5238	HB2	LEU	X	349	74.308	31.567	48.479	0.00	0.00
ATOM	5239	HB3	LEU	X	349	73.851	29.946	49.045	0.00	0.00
ATOM	5240	CG	LEU	X	349	73.821	30.321	46.829	0.00	0.00
ATOM	5241	HG	LEU	X	349	73.450	31.113	46.179	0.00	0.00
ATOM	5242	CD1	LEU	X	349	75.338	30.189	46.548	0.00	0.00
ATOM	5243	HD11	LEU	X	349	76.077	30.864	46.978	0.00	0.00
ATOM	5244	HD12	LEU	X	349	75.419	30.359	45.475	0.00	0.00
ATOM	5245	HD13	LEU	X	349	75.627	29.161	46.767	0.00	0.00
ATOM	5246	CD2	LEU	X	349	72.999	29.083	46.355	0.00	0.00
ATOM	5247	HD21	LEU	X	349	71.937	29.323	46.408	0.00	0.00
ATOM	5248	HD22	LEU	X	349	73.236	28.657	45.380	0.00	0.00
ATOM	5249	HD23	LEU	X	349	73.135	28.252	47.046	0.00	0.00
ATOM	5250	C	LEU	X	349	71.867	31.612	49.974	0.00	0.00
ATOM	5251	O	LEU	X	349	72.428	32.712	50.304	0.00	0.00
ATOM	5252	N	ILE	X	350	71.148	30.917	50.914	0.00	0.00
ATOM	5253	H	ILE	X	350	70.846	29.983	50.677	0.00	0.00
ATOM	5254	CA	ILE	X	350	70.889	31.479	52.288	0.00	0.00
ATOM	5255	HA	ILE	X	350	71.535	32.350	52.401	0.00	0.00
ATOM	5256	CB	ILE	X	350	69.475	32.112	52.385	0.00	0.00
ATOM	5257	HB	ILE	X	350	69.217	32.377	53.410	0.00	0.00
ATOM	5258	CG2	ILE	X	350	69.430	33.379	51.519	0.00	0.00
ATOM	5259	HG21	ILE	X	350	70.240	33.948	51.976	0.00	0.00
ATOM	5260	HG22	ILE	X	350	68.589	34.052	51.685	0.00	0.00
ATOM	5261	HG23	ILE	X	350	69.427	33.183	50.447	0.00	0.00
ATOM	5262	CG1	ILE	X	350	68.367	31.084	52.015	0.00	0.00
ATOM	5263	HG12	ILE	X	350	68.258	30.873	50.951	0.00	0.00
ATOM	5264	HG13	ILE	X	350	68.525	30.119	52.497	0.00	0.00
ATOM	5265	CD1	ILE	X	350	66.953	31.630	52.320	0.00	0.00
ATOM	5266	HD11	ILE	X	350	66.880	32.611	51.849	0.00	0.00
ATOM	5267	HD12	ILE	X	350	66.908	31.732	53.404	0.00	0.00
ATOM	5268	HD13	ILE	X	350	66.132	30.955	52.077	0.00	0.00
ATOM	5269	C	ILE	X	350	71.148	30.418	53.335	0.00	0.00
ATOM	5270	O	ILE	X	350	70.964	29.214	53.149	0.00	0.00
ATOM	5271	N	SER	X	351	71.553	30.949	54.536	0.00	0.00

ATOM	5272	H	SER	X	351	71.836	31.917	54.600	0.00	0.00
ATOM	5273	CA	SER	X	351	71.708	30.144	55.742	0.00	0.00
ATOM	5274	HA	SER	X	351	71.877	29.103	55.466	0.00	0.00
ATOM	5275	CB	SER	X	351	72.941	30.645	56.545	0.00	0.00
ATOM	5276	HB2	SER	X	351	73.048	29.965	57.390	0.00	0.00
ATOM	5277	HB3	SER	X	351	73.698	30.569	55.764	0.00	0.00
ATOM	5278	OG	SER	X	351	72.801	31.979	57.085	0.00	0.00
ATOM	5279	HG	SER	X	351	73.631	32.274	57.466	0.00	0.00
ATOM	5280	C	SER	X	351	70.467	30.078	56.638	0.00	0.00
ATOM	5281	O	SER	X	351	69.547	30.853	56.384	0.00	0.00
ATOM	5282	N	ARG	X	352	70.468	29.235	57.687	0.00	0.00
ATOM	5283	H	ARG	X	352	71.184	28.525	57.751	0.00	0.00
ATOM	5284	CA	ARG	X	352	69.346	29.274	58.661	0.00	0.00
ATOM	5285	HA	ARG	X	352	68.411	29.120	58.123	0.00	0.00
ATOM	5286	CB	ARG	X	352	69.555	28.219	59.700	0.00	0.00
ATOM	5287	HB2	ARG	X	352	70.536	28.254	60.175	0.00	0.00
ATOM	5288	HB3	ARG	X	352	68.891	28.357	60.553	0.00	0.00
ATOM	5289	CG	ARG	X	352	69.341	26.817	59.057	0.00	0.00
ATOM	5290	HG2	ARG	X	352	68.362	26.961	58.599	0.00	0.00
ATOM	5291	HG3	ARG	X	352	70.045	26.616	58.250	0.00	0.00
ATOM	5292	CD	ARG	X	352	69.401	25.683	60.065	0.00	0.00
ATOM	5293	HD2	ARG	X	352	69.311	24.775	59.469	0.00	0.00
ATOM	5294	HD3	ARG	X	352	70.356	25.619	60.586	0.00	0.00
ATOM	5295	NE	ARG	X	352	68.351	25.777	61.083	0.00	0.00
ATOM	5296	HE	ARG	X	352	68.718	26.104	61.965	0.00	0.00
ATOM	5297	CZ	ARG	X	352	67.151	25.317	60.925	0.00	0.00
ATOM	5298	NH1	ARG	X	352	66.620	25.051	59.768	0.00	0.00
ATOM	5299	HH11	ARG	X	352	67.188	25.339	58.985	0.00	0.00
ATOM	5300	HH12	ARG	X	352	65.630	24.890	59.644	0.00	0.00
ATOM	5301	NH2	ARG	X	352	66.471	25.050	62.015	0.00	0.00
ATOM	5302	HH21	ARG	X	352	66.948	25.178	62.896	0.00	0.00
ATOM	5303	HH22	ARG	X	352	65.524	24.717	61.906	0.00	0.00
ATOM	5304	C	ARG	X	352	69.228	30.616	59.397	0.00	0.00
ATOM	5305	O	ARG	X	352	68.085	30.829	59.828	0.00	0.00
ATOM	5306	N	ALA	X	353	70.335	31.383	59.550	0.00	0.00
ATOM	5307	H	ALA	X	353	71.230	30.958	59.357	0.00	0.00
ATOM	5308	CA	ALA	X	353	70.297	32.738	60.115	0.00	0.00
ATOM	5309	HA	ALA	X	353	69.778	32.820	61.070	0.00	0.00
ATOM	5310	CB	ALA	X	353	71.747	33.108	60.422	0.00	0.00
ATOM	5311	HB1	ALA	X	353	71.977	32.541	61.324	0.00	0.00
ATOM	5312	HB2	ALA	X	353	71.890	34.136	60.754	0.00	0.00
ATOM	5313	HB3	ALA	X	353	72.414	32.872	59.593	0.00	0.00
ATOM	5314	C	ALA	X	353	69.719	33.822	59.136	0.00	0.00
ATOM	5315	O	ALA	X	353	68.888	34.620	59.466	0.00	0.00
ATOM	5316	N	GLU	X	354	70.137	33.761	57.850	0.00	0.00
ATOM	5317	H	GLU	X	354	70.862	33.079	57.677	0.00	0.00
ATOM	5318	CA	GLU	X	354	69.555	34.519	56.762	0.00	0.00
ATOM	5319	HA	GLU	X	354	69.593	35.588	56.971	0.00	0.00
ATOM	5320	CB	GLU	X	354	70.429	34.299	55.517	0.00	0.00
ATOM	5321	HB2	GLU	X	354	70.592	33.228	55.400	0.00	0.00
ATOM	5322	HB3	GLU	X	354	69.949	34.648	54.603	0.00	0.00
ATOM	5323	CG	GLU	X	354	71.848	34.910	55.676	0.00	0.00
ATOM	5324	HG2	GLU	X	354	71.637	35.946	55.943	0.00	0.00
ATOM	5325	HG3	GLU	X	354	72.351	34.494	56.549	0.00	0.00
ATOM	5326	CD	GLU	X	354	72.729	34.729	54.503	0.00	0.00
ATOM	5327	OE1	GLU	X	354	73.021	35.695	53.821	0.00	0.00
ATOM	5328	OE2	GLU	X	354	73.095	33.596	54.211	0.00	0.00
ATOM	5329	C	GLU	X	354	68.134	34.095	56.441	0.00	0.00
ATOM	5330	O	GLU	X	354	67.366	35.025	56.165	0.00	0.00
ATOM	5331	N	PHE	X	355	67.708	32.821	56.673	0.00	0.00
ATOM	5332	H	PHE	X	355	68.434	32.133	56.811	0.00	0.00
ATOM	5333	CA	PHE	X	355	66.284	32.532	56.572	0.00	0.00
ATOM	5334	HA	PHE	X	355	65.864	32.811	55.605	0.00	0.00
ATOM	5335	CB	PHE	X	355	66.104	31.003	56.690	0.00	0.00
ATOM	5336	HB2	PHE	X	355	66.521	30.588	55.772	0.00	0.00
ATOM	5337	HB3	PHE	X	355	66.656	30.618	57.547	0.00	0.00
ATOM	5338	CG	PHE	X	355	64.717	30.396	56.772	0.00	0.00

ATOM	5339	CD1	PHE	X	355	63.652	30.866	55.977	0.00	0.00
ATOM	5340	HD1	PHE	X	355	63.750	31.751	55.366	0.00	0.00
ATOM	5341	CE1	PHE	X	355	62.384	30.266	55.945	0.00	0.00
ATOM	5342	HE1	PHE	X	355	61.567	30.609	55.327	0.00	0.00
ATOM	5343	CZ	PHE	X	355	62.223	29.133	56.768	0.00	0.00
ATOM	5344	HZ	PHE	X	355	61.280	28.622	56.641	0.00	0.00
ATOM	5345	CE2	PHE	X	355	63.284	28.676	57.687	0.00	0.00
ATOM	5346	HE2	PHE	X	355	63.127	27.738	58.198	0.00	0.00
ATOM	5347	CD2	PHE	X	355	64.470	29.299	57.603	0.00	0.00
ATOM	5348	HD2	PHE	X	355	65.308	28.891	58.149	0.00	0.00
ATOM	5349	C	PHE	X	355	65.485	33.166	57.691	0.00	0.00
ATOM	5350	O	PHE	X	355	64.309	33.467	57.588	0.00	0.00
ATOM	5351	N	LEU	X	356	66.056	33.239	58.918	0.00	0.00
ATOM	5352	H	LEU	X	356	66.938	32.773	59.076	0.00	0.00
ATOM	5353	CA	LEU	X	356	65.358	33.845	60.079	0.00	0.00
ATOM	5354	HA	LEU	X	356	64.347	33.470	60.240	0.00	0.00
ATOM	5355	CB	LEU	X	356	66.277	33.611	61.328	0.00	0.00
ATOM	5356	HB2	LEU	X	356	66.335	32.576	61.662	0.00	0.00
ATOM	5357	HB3	LEU	X	356	67.311	33.844	61.074	0.00	0.00
ATOM	5358	CG	LEU	X	356	65.819	34.395	62.593	0.00	0.00
ATOM	5359	HG	LEU	X	356	65.832	35.465	62.384	0.00	0.00
ATOM	5360	CD1	LEU	X	356	64.447	34.139	63.251	0.00	0.00
ATOM	5361	HD11	LEU	X	356	64.361	34.668	64.200	0.00	0.00
ATOM	5362	HD12	LEU	X	356	64.413	33.072	63.473	0.00	0.00
ATOM	5363	HD13	LEU	X	356	63.618	34.289	62.559	0.00	0.00
ATOM	5364	CD2	LEU	X	356	66.959	34.083	63.527	0.00	0.00
ATOM	5365	HD21	LEU	X	356	67.003	34.695	64.428	0.00	0.00
ATOM	5366	HD22	LEU	X	356	67.008	33.041	63.841	0.00	0.00
ATOM	5367	HD23	LEU	X	356	67.931	34.312	63.089	0.00	0.00
ATOM	5368	C	LEU	X	356	65.102	35.370	59.896	0.00	0.00
ATOM	5369	O	LEU	X	356	64.020	35.891	60.171	0.00	0.00
ATOM	5370	N	ALA	X	357	66.018	36.077	59.178	0.00	0.00
ATOM	5371	H	ALA	X	357	66.937	35.694	59.007	0.00	0.00
ATOM	5372	CA	ALA	X	357	65.740	37.450	58.651	0.00	0.00
ATOM	5373	HA	ALA	X	357	65.310	37.991	59.494	0.00	0.00
ATOM	5374	CB	ALA	X	357	67.016	38.088	58.314	0.00	0.00
ATOM	5375	HB1	ALA	X	357	66.828	39.129	58.576	0.00	0.00
ATOM	5376	HB2	ALA	X	357	67.299	38.005	57.265	0.00	0.00
ATOM	5377	HB3	ALA	X	357	67.821	37.677	58.923	0.00	0.00
ATOM	5378	C	ALA	X	357	64.734	37.532	57.470	0.00	0.00
ATOM	5379	O	ALA	X	357	63.918	38.371	57.363	0.00	0.00
ATOM	5380	N	GLY	X	358	64.779	36.428	56.729	0.00	0.00
ATOM	5381	H	GLY	X	358	65.579	35.834	56.896	0.00	0.00
ATOM	5382	CA	GLY	X	358	63.873	35.918	55.705	0.00	0.00
ATOM	5383	HA2	GLY	X	358	63.966	36.597	54.858	0.00	0.00
ATOM	5384	HA3	GLY	X	358	64.277	34.926	55.501	0.00	0.00
ATOM	5385	C	GLY	X	358	62.427	35.808	56.158	0.00	0.00
ATOM	5386	O	GLY	X	358	61.561	36.469	55.556	0.00	0.00
ATOM	5387	N	VAL	X	359	62.128	34.919	57.122	0.00	0.00
ATOM	5388	H	VAL	X	359	62.822	34.259	57.443	0.00	0.00
ATOM	5389	CA	VAL	X	359	60.927	35.032	58.020	0.00	0.00
ATOM	5390	HA	VAL	X	359	60.031	34.745	57.469	0.00	0.00
ATOM	5391	CB	VAL	X	359	60.984	34.076	59.238	0.00	0.00
ATOM	5392	HB	VAL	X	359	61.916	34.209	59.786	0.00	0.00
ATOM	5393	CG1	VAL	X	359	59.790	34.237	60.208	0.00	0.00
ATOM	5394	HG11	VAL	X	359	58.856	33.982	59.707	0.00	0.00
ATOM	5395	HG12	VAL	X	359	60.051	33.545	61.008	0.00	0.00
ATOM	5396	HG13	VAL	X	359	59.679	35.228	60.647	0.00	0.00
ATOM	5397	CG2	VAL	X	359	60.970	32.659	58.751	0.00	0.00
ATOM	5398	HG21	VAL	X	359	61.822	32.424	58.112	0.00	0.00
ATOM	5399	HG22	VAL	X	359	60.054	32.432	58.205	0.00	0.00
ATOM	5400	HG23	VAL	X	359	61.034	31.988	59.607	0.00	0.00
ATOM	5401	C	VAL	X	359	60.643	36.462	58.408	0.00	0.00
ATOM	5402	O	VAL	X	359	59.537	36.916	58.196	0.00	0.00
ATOM	5403	N	ARG	X	360	61.583	37.209	59.000	0.00	0.00
ATOM	5404	H	ARG	X	360	62.510	36.858	59.195	0.00	0.00
ATOM	5405	CA	ARG	X	360	61.327	38.545	59.465	0.00	0.00

ATOM	5406	HA	ARG	X	360	60.497	38.585	60.170	0.00	0.00
ATOM	5407	CB	ARG	X	360	62.424	39.124	60.320	0.00	0.00
ATOM	5408	HB2	ARG	X	360	63.451	39.008	59.973	0.00	0.00
ATOM	5409	HB3	ARG	X	360	62.359	40.207	60.420	0.00	0.00
ATOM	5410	CG	ARG	X	360	62.459	38.429	61.723	0.00	0.00
ATOM	5411	HG2	ARG	X	360	61.472	38.174	62.110	0.00	0.00
ATOM	5412	HG3	ARG	X	360	62.951	37.473	61.543	0.00	0.00
ATOM	5413	CD	ARG	X	360	63.146	39.246	62.827	0.00	0.00
ATOM	5414	HD2	ARG	X	360	63.406	38.561	63.632	0.00	0.00
ATOM	5415	HD3	ARG	X	360	64.128	39.617	62.533	0.00	0.00
ATOM	5416	NE	ARG	X	360	62.320	40.401	63.189	0.00	0.00
ATOM	5417	HE	ARG	X	360	61.809	40.827	62.428	0.00	0.00
ATOM	5418	CZ	ARG	X	360	61.919	40.785	64.394	0.00	0.00
ATOM	5419	NH1	ARG	X	360	62.523	40.339	65.490	0.00	0.00
ATOM	5420	HH11	ARG	X	360	63.385	39.813	65.443	0.00	0.00
ATOM	5421	HH12	ARG	X	360	62.087	40.378	66.400	0.00	0.00
ATOM	5422	NH2	ARG	X	360	60.976	41.708	64.435	0.00	0.00
ATOM	5423	HH21	ARG	X	360	60.608	42.069	63.566	0.00	0.00
ATOM	5424	HH22	ARG	X	360	60.606	41.856	65.363	0.00	0.00
ATOM	5425	C	ARG	X	360	60.988	39.610	58.397	0.00	0.00
ATOM	5426	O	ARG	X	360	60.205	40.493	58.686	0.00	0.00
ATOM	5427	N	VAL	X	361	61.443	39.413	57.149	0.00	0.00
ATOM	5428	H	VAL	X	361	62.225	38.794	56.990	0.00	0.00
ATOM	5429	CA	VAL	X	361	61.005	40.322	56.059	0.00	0.00
ATOM	5430	HA	VAL	X	361	60.794	41.257	56.579	0.00	0.00
ATOM	5431	CB	VAL	X	361	62.084	40.648	55.045	0.00	0.00
ATOM	5432	HB	VAL	X	361	61.771	41.385	54.305	0.00	0.00
ATOM	5433	CG1	VAL	X	361	63.376	41.253	55.661	0.00	0.00
ATOM	5434	HG11	VAL	X	361	63.945	40.498	56.203	0.00	0.00
ATOM	5435	HG12	VAL	X	361	63.997	41.708	54.888	0.00	0.00
ATOM	5436	HG13	VAL	X	361	63.078	42.037	56.357	0.00	0.00
ATOM	5437	CG2	VAL	X	361	62.626	39.479	54.237	0.00	0.00
ATOM	5438	HG21	VAL	X	361	63.365	39.791	53.499	0.00	0.00
ATOM	5439	HG22	VAL	X	361	61.755	39.044	53.747	0.00	0.00
ATOM	5440	HG23	VAL	X	361	63.001	38.802	55.005	0.00	0.00
ATOM	5441	C	VAL	X	361	59.633	39.868	55.468	0.00	0.00
ATOM	5442	O	VAL	X	361	59.058	40.551	54.626	0.00	0.00
ATOM	5443	N	GLY	X	362	59.302	38.616	55.747	0.00	0.00
ATOM	5444	H	GLY	X	362	59.882	38.090	56.384	0.00	0.00
ATOM	5445	CA	GLY	X	362	58.315	37.765	55.058	0.00	0.00
ATOM	5446	HA2	GLY	X	362	58.171	38.294	54.115	0.00	0.00
ATOM	5447	HA3	GLY	X	362	58.745	36.791	54.826	0.00	0.00
ATOM	5448	C	GLY	X	362	57.008	37.460	55.732	0.00	0.00
ATOM	5449	O	GLY	X	362	56.054	36.979	55.134	0.00	0.00
ATOM	5450	N	VAL	X	363	56.895	37.915	56.961	0.00	0.00
ATOM	5451	H	VAL	X	363	57.715	38.381	57.321	0.00	0.00
ATOM	5452	CA	VAL	X	363	55.668	37.844	57.800	0.00	0.00
ATOM	5453	HA	VAL	X	363	54.878	37.651	57.074	0.00	0.00
ATOM	5454	CB	VAL	X	363	55.593	36.623	58.775	0.00	0.00
ATOM	5455	HB	VAL	X	363	56.043	36.874	59.736	0.00	0.00
ATOM	5456	CG1	VAL	X	363	54.098	36.417	59.193	0.00	0.00
ATOM	5457	HG11	VAL	X	363	54.005	35.558	59.858	0.00	0.00
ATOM	5458	HG12	VAL	X	363	53.782	37.302	59.746	0.00	0.00
ATOM	5459	HG13	VAL	X	363	53.428	36.272	58.346	0.00	0.00
ATOM	5460	CG2	VAL	X	363	56.168	35.285	58.322	0.00	0.00
ATOM	5461	HG21	VAL	X	363	57.181	35.434	57.950	0.00	0.00
ATOM	5462	HG22	VAL	X	363	55.498	34.784	57.623	0.00	0.00
ATOM	5463	HG23	VAL	X	363	56.373	34.608	59.151	0.00	0.00
ATOM	5464	C	VAL	X	363	55.385	39.242	58.450	0.00	0.00
ATOM	5465	O	VAL	X	363	56.298	39.686	59.123	0.00	0.00
ATOM	5466	N	PRO	X	364	54.180	39.869	58.401	0.00	0.00
ATOM	5467	CD	PRO	X	364	53.034	39.561	57.537	0.00	0.00
ATOM	5468	HD2	PRO	X	364	52.725	38.523	57.661	0.00	0.00
ATOM	5469	HD3	PRO	X	364	53.314	39.844	56.523	0.00	0.00
ATOM	5470	CG	PRO	X	364	51.887	40.534	57.877	0.00	0.00
ATOM	5471	HG2	PRO	X	364	51.137	40.100	58.537	0.00	0.00
ATOM	5472	HG3	PRO	X	364	51.360	40.953	57.019	0.00	0.00

ATOM	5473	CB	PRO	X	364	52.560	41.659	58.655	0.00	0.00
ATOM	5474	HB2	PRO	X	364	51.881	42.113	59.377	0.00	0.00
ATOM	5475	HB3	PRO	X	364	52.917	42.386	57.925	0.00	0.00
ATOM	5476	CA	PRO	X	364	53.858	41.052	59.163	0.00	0.00
ATOM	5477	HA	PRO	X	364	54.587	41.838	58.966	0.00	0.00
ATOM	5478	C	PRO	X	364	53.678	40.771	60.649	0.00	0.00
ATOM	5479	O	PRO	X	364	53.497	39.613	61.045	0.00	0.00
ATOM	5480	N	GLN	X	365	54.031	41.838	61.454	0.00	0.00
ATOM	5481	H	GLN	X	365	54.088	42.722	60.969	0.00	0.00
ATOM	5482	CA	GLN	X	365	53.958	41.924	62.900	0.00	0.00
ATOM	5483	HA	GLN	X	365	54.108	42.980	63.122	0.00	0.00
ATOM	5484	CB	GLN	X	365	52.571	41.541	63.517	0.00	0.00
ATOM	5485	HB2	GLN	X	365	51.738	41.856	62.888	0.00	0.00
ATOM	5486	HB3	GLN	X	365	52.499	40.453	63.543	0.00	0.00
ATOM	5487	CG	GLN	X	365	52.372	42.064	64.948	0.00	0.00
ATOM	5488	HG2	GLN	X	365	53.034	41.470	65.578	0.00	0.00
ATOM	5489	HG3	GLN	X	365	52.694	43.106	64.945	0.00	0.00
ATOM	5490	CD	GLN	X	365	50.988	41.847	65.508	0.00	0.00
ATOM	5491	OE1	GLN	X	365	50.457	40.764	65.562	0.00	0.00
ATOM	5492	NE2	GLN	X	365	50.311	42.905	66.022	0.00	0.00
ATOM	5493	HE21	GLN	X	365	49.466	42.701	66.537	0.00	0.00
ATOM	5494	HE22	GLN	X	365	50.684	43.836	66.142	0.00	0.00
ATOM	5495	C	GLN	X	365	55.040	41.095	63.511	0.00	0.00
ATOM	5496	O	GLN	X	365	55.458	41.433	64.614	0.00	0.00
ATOM	5497	N	VAL	X	366	55.457	40.005	62.867	0.00	0.00
ATOM	5498	H	VAL	X	366	55.066	39.734	61.976	0.00	0.00
ATOM	5499	CA	VAL	X	366	56.211	38.901	63.594	0.00	0.00
ATOM	5500	HA	VAL	X	366	55.411	38.452	64.183	0.00	0.00
ATOM	5501	CB	VAL	X	366	56.618	37.777	62.538	0.00	0.00
ATOM	5502	HB	VAL	X	366	55.792	37.675	61.834	0.00	0.00
ATOM	5503	CG1	VAL	X	366	57.904	38.059	61.813	0.00	0.00
ATOM	5504	HG11	VAL	X	366	58.797	37.888	62.414	0.00	0.00
ATOM	5505	HG12	VAL	X	366	58.044	37.526	60.873	0.00	0.00
ATOM	5506	HG13	VAL	X	366	57.901	39.072	61.412	0.00	0.00
ATOM	5507	CG2	VAL	X	366	56.745	36.285	63.098	0.00	0.00
ATOM	5508	HG21	VAL	X	366	55.741	35.893	63.262	0.00	0.00
ATOM	5509	HG22	VAL	X	366	57.347	36.179	64.000	0.00	0.00
ATOM	5510	HG23	VAL	X	366	57.214	35.705	62.303	0.00	0.00
ATOM	5511	C	VAL	X	366	57.387	39.253	64.604	0.00	0.00
ATOM	5512	O	VAL	X	366	58.305	40.052	64.276	0.00	0.00
ATOM	5513	N	SER	X	367	57.396	38.781	65.848	0.00	0.00
ATOM	5514	H	SER	X	367	56.755	38.044	66.106	0.00	0.00
ATOM	5515	CA	SER	X	367	58.336	39.080	66.941	0.00	0.00
ATOM	5516	HA	SER	X	367	58.602	40.135	66.884	0.00	0.00
ATOM	5517	CB	SER	X	367	57.673	38.944	68.317	0.00	0.00
ATOM	5518	HB2	SER	X	367	58.375	39.186	69.115	0.00	0.00
ATOM	5519	HB3	SER	X	367	56.792	39.581	68.245	0.00	0.00
ATOM	5520	OG	SER	X	367	57.264	37.576	68.541	0.00	0.00
ATOM	5521	HG	SER	X	367	56.580	37.488	69.209	0.00	0.00
ATOM	5522	C	SER	X	367	59.608	38.243	66.877	0.00	0.00
ATOM	5523	O	SER	X	367	59.602	37.179	66.183	0.00	0.00
ATOM	5524	N	ASP	X	368	60.615	38.681	67.662	0.00	0.00
ATOM	5525	H	ASP	X	368	60.415	39.462	68.271	0.00	0.00
ATOM	5526	CA	ASP	X	368	61.763	37.813	67.887	0.00	0.00
ATOM	5527	HA	ASP	X	368	62.249	37.685	66.921	0.00	0.00
ATOM	5528	CB	ASP	X	368	62.795	38.485	68.788	0.00	0.00
ATOM	5529	HB2	ASP	X	368	63.122	39.376	68.252	0.00	0.00
ATOM	5530	HB3	ASP	X	368	62.295	38.845	69.687	0.00	0.00
ATOM	5531	CG	ASP	X	368	63.996	37.677	69.204	0.00	0.00
ATOM	5532	OD1	ASP	X	368	64.994	37.616	68.480	0.00	0.00
ATOM	5533	OD2	ASP	X	368	63.962	37.164	70.335	0.00	0.00
ATOM	5534	C	ASP	X	368	61.426	36.375	68.345	0.00	0.00
ATOM	5535	O	ASP	X	368	61.969	35.377	67.782	0.00	0.00
ATOM	5536	N	LEU	X	369	60.551	36.158	69.310	0.00	0.00
ATOM	5537	H	LEU	X	369	60.064	36.915	69.769	0.00	0.00
ATOM	5538	CA	LEU	X	369	60.205	34.792	69.753	0.00	0.00
ATOM	5539	HA	LEU	X	369	61.177	34.314	69.883	0.00	0.00

ATOM	5540	CB	LEU	X	369	59.386	34.877	71.092	0.00	0.00
ATOM	5541	HB2	LEU	X	369	59.888	35.588	71.749	0.00	0.00
ATOM	5542	HB3	LEU	X	369	58.411	35.362	71.040	0.00	0.00
ATOM	5543	CG	LEU	X	369	59.149	33.493	71.773	0.00	0.00
ATOM	5544	HG	LEU	X	369	58.721	32.870	70.987	0.00	0.00
ATOM	5545	CD1	LEU	X	369	60.395	32.837	72.292	0.00	0.00
ATOM	5546	HD11	LEU	X	369	60.926	33.554	72.919	0.00	0.00
ATOM	5547	HD12	LEU	X	369	61.064	32.463	71.517	0.00	0.00
ATOM	5548	HD13	LEU	X	369	60.047	32.100	73.016	0.00	0.00
ATOM	5549	CD2	LEU	X	369	58.226	33.668	73.017	0.00	0.00
ATOM	5550	HD21	LEU	X	369	57.230	33.975	72.700	0.00	0.00
ATOM	5551	HD22	LEU	X	369	58.080	32.752	73.590	0.00	0.00
ATOM	5552	HD23	LEU	X	369	58.579	34.551	73.549	0.00	0.00
ATOM	5553	C	LEU	X	369	59.365	34.061	68.674	0.00	0.00
ATOM	5554	O	LEU	X	369	59.578	32.918	68.457	0.00	0.00
ATOM	5555	N	ALA	X	370	58.419	34.728	68.037	0.00	0.00
ATOM	5556	H	ALA	X	370	58.311	35.722	68.183	0.00	0.00
ATOM	5557	CA	ALA	X	370	57.514	34.169	66.942	0.00	0.00
ATOM	5558	HA	ALA	X	370	57.097	33.219	67.274	0.00	0.00
ATOM	5559	CB	ALA	X	370	56.347	35.124	66.828	0.00	0.00
ATOM	5560	HB1	ALA	X	370	55.834	35.240	67.782	0.00	0.00
ATOM	5561	HB2	ALA	X	370	55.627	34.660	66.154	0.00	0.00
ATOM	5562	HB3	ALA	X	370	56.748	36.051	66.418	0.00	0.00
ATOM	5563	C	ALA	X	370	58.241	33.911	65.645	0.00	0.00
ATOM	5564	O	ALA	X	370	58.039	32.780	65.058	0.00	0.00
ATOM	5565	N	ALA	X	371	59.138	34.725	65.111	0.00	0.00
ATOM	5566	H	ALA	X	371	59.343	35.607	65.558	0.00	0.00
ATOM	5567	CA	ALA	X	371	59.886	34.390	63.874	0.00	0.00
ATOM	5568	HA	ALA	X	371	59.247	34.009	63.078	0.00	0.00
ATOM	5569	CB	ALA	X	371	60.684	35.611	63.533	0.00	0.00
ATOM	5570	HB1	ALA	X	371	60.102	36.533	63.570	0.00	0.00
ATOM	5571	HB2	ALA	X	371	61.166	35.498	62.563	0.00	0.00
ATOM	5572	HB3	ALA	X	371	61.375	35.837	64.345	0.00	0.00
ATOM	5573	C	ALA	X	371	60.741	33.119	64.110	0.00	0.00
ATOM	5574	O	ALA	X	371	60.711	32.231	63.320	0.00	0.00
ATOM	5575	N	GLU	X	372	61.294	32.952	65.316	0.00	0.00
ATOM	5576	H	GLU	X	372	61.183	33.607	66.077	0.00	0.00
ATOM	5577	CA	GLU	X	372	62.124	31.792	65.674	0.00	0.00
ATOM	5578	HA	GLU	X	372	62.927	31.633	64.954	0.00	0.00
ATOM	5579	CB	GLU	X	372	62.748	32.087	67.061	0.00	0.00
ATOM	5580	HB2	GLU	X	372	63.180	33.087	67.076	0.00	0.00
ATOM	5581	HB3	GLU	X	372	61.820	32.133	67.630	0.00	0.00
ATOM	5582	CG	GLU	X	372	63.692	31.057	67.658	0.00	0.00
ATOM	5583	HG2	GLU	X	372	63.308	30.044	67.778	0.00	0.00
ATOM	5584	HG3	GLU	X	372	64.552	31.083	66.990	0.00	0.00
ATOM	5585	CD	GLU	X	372	64.063	31.539	69.058	0.00	0.00
ATOM	5586	OE1	GLU	X	372	65.072	32.250	69.197	0.00	0.00
ATOM	5587	OE2	GLU	X	372	63.339	31.208	70.040	0.00	0.00
ATOM	5588	C	GLU	X	372	61.265	30.540	65.663	0.00	0.00
ATOM	5589	O	GLU	X	372	61.740	29.491	65.228	0.00	0.00
ATOM	5590	N	ALA	X	373	59.995	30.692	66.038	0.00	0.00
ATOM	5591	H	ALA	X	373	59.755	31.587	66.440	0.00	0.00
ATOM	5592	CA	ALA	X	373	58.971	29.581	66.116	0.00	0.00
ATOM	5593	HA	ALA	X	373	59.358	28.693	66.615	0.00	0.00
ATOM	5594	CB	ALA	X	373	57.877	30.015	67.067	0.00	0.00
ATOM	5595	HB1	ALA	X	373	57.134	30.613	66.538	0.00	0.00
ATOM	5596	HB2	ALA	X	373	58.278	30.674	67.837	0.00	0.00
ATOM	5597	HB3	ALA	X	373	57.440	29.110	67.490	0.00	0.00
ATOM	5598	C	ALA	X	373	58.414	29.191	64.745	0.00	0.00
ATOM	5599	O	ALA	X	373	58.012	28.045	64.417	0.00	0.00
ATOM	5600	N	VAL	X	374	58.315	30.146	63.826	0.00	0.00
ATOM	5601	H	VAL	X	374	58.460	31.065	64.220	0.00	0.00
ATOM	5602	CA	VAL	X	374	58.032	29.892	62.430	0.00	0.00
ATOM	5603	HA	VAL	X	374	57.260	29.126	62.352	0.00	0.00
ATOM	5604	CB	VAL	X	374	57.653	31.199	61.639	0.00	0.00
ATOM	5605	HB	VAL	X	374	58.493	31.888	61.723	0.00	0.00
ATOM	5606	CG1	VAL	X	374	57.427	30.817	60.171	0.00	0.00

ATOM	5607	HG11	VAL	X	374	58.352	30.559	59.654	0.00	0.00
ATOM	5608	HG12	VAL	X	374	56.673	30.032	60.105	0.00	0.00
ATOM	5609	HG13	VAL	X	374	57.080	31.686	59.611	0.00	0.00
ATOM	5610	CG2	VAL	X	374	56.464	31.985	62.167	0.00	0.00
ATOM	5611	HG21	VAL	X	374	56.743	32.879	62.724	0.00	0.00
ATOM	5612	HG22	VAL	X	374	55.908	31.312	62.819	0.00	0.00
ATOM	5613	HG23	VAL	X	374	55.749	32.429	61.474	0.00	0.00
ATOM	5614	C	VAL	X	374	59.172	29.169	61.718	0.00	0.00
ATOM	5615	O	VAL	X	374	58.969	28.170	61.069	0.00	0.00
ATOM	5616	N	VAL	X	375	60.427	29.570	61.899	0.00	0.00
ATOM	5617	H	VAL	X	375	60.545	30.275	62.612	0.00	0.00
ATOM	5618	CA	VAL	X	375	61.677	28.942	61.435	0.00	0.00
ATOM	5619	HA	VAL	X	375	61.477	28.932	60.364	0.00	0.00
ATOM	5620	CB	VAL	X	375	63.015	29.671	61.896	0.00	0.00
ATOM	5621	HB	VAL	X	375	62.883	29.883	62.957	0.00	0.00
ATOM	5622	CG1	VAL	X	375	64.299	28.889	61.593	0.00	0.00
ATOM	5623	HG11	VAL	X	375	65.187	29.520	61.575	0.00	0.00
ATOM	5624	HG12	VAL	X	375	64.417	28.115	62.352	0.00	0.00
ATOM	5625	HG13	VAL	X	375	64.203	28.447	60.602	0.00	0.00
ATOM	5626	CG2	VAL	X	375	63.158	30.961	61.163	0.00	0.00
ATOM	5627	HG21	VAL	X	375	64.072	31.499	61.414	0.00	0.00
ATOM	5628	HG22	VAL	X	375	62.352	31.664	61.376	0.00	0.00
ATOM	5629	HG23	VAL	X	375	63.123	30.864	60.078	0.00	0.00
ATOM	5630	C	VAL	X	375	61.687	27.479	62.027	0.00	0.00
ATOM	5631	O	VAL	X	375	61.964	26.470	61.295	0.00	0.00
ATOM	5632	N	LEU	X	376	61.389	27.314	63.286	0.00	0.00
ATOM	5633	H	LEU	X	376	61.235	28.063	63.946	0.00	0.00
ATOM	5634	CA	LEU	X	376	61.260	25.966	63.787	0.00	0.00
ATOM	5635	HA	LEU	X	376	62.205	25.463	63.586	0.00	0.00
ATOM	5636	CB	LEU	X	376	61.147	26.133	65.353	0.00	0.00
ATOM	5637	HB2	LEU	X	376	62.013	26.743	65.610	0.00	0.00
ATOM	5638	HB3	LEU	X	376	60.220	26.563	65.732	0.00	0.00
ATOM	5639	CG	LEU	X	376	61.409	24.836	66.177	0.00	0.00
ATOM	5640	HG	LEU	X	376	61.233	25.087	67.223	0.00	0.00
ATOM	5641	CD1	LEU	X	376	60.379	23.711	65.842	0.00	0.00
ATOM	5642	HD11	LEU	X	376	59.347	24.058	65.800	0.00	0.00
ATOM	5643	HD12	LEU	X	376	60.501	22.958	66.620	0.00	0.00
ATOM	5644	HD13	LEU	X	376	60.519	23.341	64.826	0.00	0.00
ATOM	5645	CD2	LEU	X	376	62.788	24.233	65.826	0.00	0.00
ATOM	5646	HD21	LEU	X	376	63.532	25.003	66.027	0.00	0.00
ATOM	5647	HD22	LEU	X	376	62.981	23.430	66.537	0.00	0.00
ATOM	5648	HD23	LEU	X	376	62.697	23.865	64.804	0.00	0.00
ATOM	5649	C	LEU	X	376	60.118	25.176	63.159	0.00	0.00
ATOM	5650	O	LEU	X	376	60.452	24.165	62.546	0.00	0.00
ATOM	5651	N	HIE	X	377	58.831	25.577	63.029	0.00	0.00
ATOM	5652	H	HIE	X	377	58.593	26.339	63.648	0.00	0.00
ATOM	5653	CA	HIE	X	377	57.781	24.800	62.406	0.00	0.00
ATOM	5654	HA	HIE	X	377	57.766	23.828	62.900	0.00	0.00
ATOM	5655	CB	HIE	X	377	56.455	25.573	62.656	0.00	0.00
ATOM	5656	HB2	HIE	X	377	56.321	25.647	63.735	0.00	0.00
ATOM	5657	HB3	HIE	X	377	56.499	26.620	62.353	0.00	0.00
ATOM	5658	CG	HIE	X	377	55.240	24.868	62.144	0.00	0.00
ATOM	5659	ND1	HIE	X	377	54.627	23.767	62.760	0.00	0.00
ATOM	5660	CE1	HIE	X	377	53.695	23.317	61.849	0.00	0.00
ATOM	5661	HE1	HIE	X	377	52.870	22.670	62.108	0.00	0.00
ATOM	5662	NE2	HIE	X	377	53.615	24.133	60.767	0.00	0.00
ATOM	5663	HE2	HIE	X	377	52.916	24.170	60.040	0.00	0.00
ATOM	5664	CD2	HIE	X	377	54.632	25.057	61.008	0.00	0.00
ATOM	5665	HD2	HIE	X	377	54.785	25.917	60.372	0.00	0.00
ATOM	5666	C	HIE	X	377	58.008	24.584	60.903	0.00	0.00
ATOM	5667	O	HIE	X	377	57.555	23.623	60.334	0.00	0.00
ATOM	5668	N	TYR	X	378	58.813	25.412	60.179	0.00	0.00
ATOM	5669	H	TYR	X	378	59.213	26.154	60.736	0.00	0.00
ATOM	5670	CA	TYR	X	378	59.158	25.229	58.767	0.00	0.00
ATOM	5671	HA	TYR	X	378	58.332	24.729	58.261	0.00	0.00
ATOM	5672	CB	TYR	X	378	59.345	26.578	58.088	0.00	0.00
ATOM	5673	HB2	TYR	X	378	59.654	27.343	58.800	0.00	0.00

ATOM	5674	HB3	TYR	X	378	60.112	26.451	57.324	0.00	0.00
ATOM	5675	CG	TYR	X	378	58.032	27.014	57.445	0.00	0.00
ATOM	5676	CD1	TYR	X	378	57.796	26.863	56.033	0.00	0.00
ATOM	5677	HD1	TYR	X	378	58.518	26.377	55.392	0.00	0.00
ATOM	5678	CE1	TYR	X	378	56.555	27.304	55.461	0.00	0.00
ATOM	5679	HE1	TYR	X	378	56.415	27.201	54.395	0.00	0.00
ATOM	5680	CZ	TYR	X	378	55.578	27.999	56.238	0.00	0.00
ATOM	5681	OH	TYR	X	378	54.520	28.549	55.569	0.00	0.00
ATOM	5682	HH	TYR	X	378	54.815	28.612	54.657	0.00	0.00
ATOM	5683	CE2	TYR	X	378	55.778	28.153	57.665	0.00	0.00
ATOM	5684	HE2	TYR	X	378	55.105	28.660	58.340	0.00	0.00
ATOM	5685	CD2	TYR	X	378	56.980	27.603	58.250	0.00	0.00
ATOM	5686	HD2	TYR	X	378	57.068	27.542	59.325	0.00	0.00
ATOM	5687	C	TYR	X	378	60.336	24.229	58.625	0.00	0.00
ATOM	5688	O	TYR	X	378	60.567	23.725	57.551	0.00	0.00
ATOM	5689	N	THR	X	379	61.126	23.966	59.645	0.00	0.00
ATOM	5690	H	THR	X	379	60.867	24.474	60.479	0.00	0.00
ATOM	5691	CA	THR	X	379	62.438	23.207	59.519	0.00	0.00
ATOM	5692	HA	THR	X	379	63.096	23.701	58.803	0.00	0.00
ATOM	5693	CB	THR	X	379	63.107	23.228	60.863	0.00	0.00
ATOM	5694	HB	THR	X	379	62.386	23.037	61.657	0.00	0.00
ATOM	5695	CG2	THR	X	379	64.265	22.271	61.052	0.00	0.00
ATOM	5696	HG21	THR	X	379	64.895	22.281	60.163	0.00	0.00
ATOM	5697	HG22	THR	X	379	63.964	21.226	61.125	0.00	0.00
ATOM	5698	HG23	THR	X	379	64.818	22.419	61.979	0.00	0.00
ATOM	5699	OG1	THR	X	379	63.686	24.420	61.115	0.00	0.00
ATOM	5700	HG1	THR	X	379	62.901	24.969	61.170	0.00	0.00
ATOM	5701	C	THR	X	379	62.260	21.862	58.878	0.00	0.00
ATOM	5702	O	THR	X	379	61.366	21.140	59.271	0.00	0.00
ATOM	5703	N	ASP	X	380	63.135	21.455	57.907	0.00	0.00
ATOM	5704	H	ASP	X	380	63.922	22.063	57.728	0.00	0.00
ATOM	5705	CA	ASP	X	380	63.188	20.098	57.420	0.00	0.00
ATOM	5706	HA	ASP	X	380	62.224	19.590	57.382	0.00	0.00
ATOM	5707	CB	ASP	X	380	63.712	20.148	55.983	0.00	0.00
ATOM	5708	HB2	ASP	X	380	62.965	20.673	55.389	0.00	0.00
ATOM	5709	HB3	ASP	X	380	64.652	20.700	56.007	0.00	0.00
ATOM	5710	CG	ASP	X	380	63.907	18.773	55.415	0.00	0.00
ATOM	5711	OD1	ASP	X	380	65.013	18.579	54.862	0.00	0.00
ATOM	5712	OD2	ASP	X	380	63.172	17.784	55.643	0.00	0.00
ATOM	5713	C	ASP	X	380	64.122	19.233	58.231	0.00	0.00
ATOM	5714	O	ASP	X	380	65.290	19.676	58.431	0.00	0.00
ATOM	5715	N	TRP	X	381	63.628	18.084	58.725	0.00	0.00
ATOM	5716	H	TRP	X	381	62.621	18.025	58.677	0.00	0.00
ATOM	5717	CA	TRP	X	381	64.402	17.266	59.636	0.00	0.00
ATOM	5718	HA	TRP	X	381	65.044	17.859	60.287	0.00	0.00
ATOM	5719	CB	TRP	X	381	63.371	16.613	60.570	0.00	0.00
ATOM	5720	HB2	TRP	X	381	62.621	16.206	59.892	0.00	0.00
ATOM	5721	HB3	TRP	X	381	63.802	15.796	61.149	0.00	0.00
ATOM	5722	CG	TRP	X	381	62.732	17.609	61.491	0.00	0.00
ATOM	5723	CD1	TRP	X	381	61.464	18.075	61.334	0.00	0.00
ATOM	5724	HD1	TRP	X	381	60.730	17.795	60.594	0.00	0.00
ATOM	5725	NE1	TRP	X	381	61.205	19.138	62.167	0.00	0.00
ATOM	5726	HE1	TRP	X	381	60.403	19.753	62.169	0.00	0.00
ATOM	5727	CE2	TRP	X	381	62.325	19.323	63.000	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	62.519	20.210	64.119	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	61.745	20.898	64.428	0.00	0.00
ATOM	5730	CH2	TRP	X	381	63.676	20.052	64.882	0.00	0.00
ATOM	5731	HH2	TRP	X	381	63.795	20.658	65.768	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	64.715	19.151	64.423	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	65.595	19.058	65.041	0.00	0.00
ATOM	5734	CE3	TRP	X	381	64.512	18.370	63.280	0.00	0.00
ATOM	5735	HE3	TRP	X	381	65.236	17.607	63.032	0.00	0.00
ATOM	5736	CD2	TRP	X	381	63.290	18.367	62.592	0.00	0.00
ATOM	5737	C	TRP	X	381	65.304	16.282	58.805	0.00	0.00
ATOM	5738	O	TRP	X	381	66.056	15.552	59.423	0.00	0.00
ATOM	5739	N	LEU	X	382	65.216	16.319	57.464	0.00	0.00
ATOM	5740	H	LEU	X	382	64.676	16.990	56.937	0.00	0.00

ATOM	5741	CA	LEU	X	382	65.999	15.440	56.643	0.00	0.00
ATOM	5742	HA	LEU	X	382	66.336	14.542	57.162	0.00	0.00
ATOM	5743	CB	LEU	X	382	65.334	14.977	55.330	0.00	0.00
ATOM	5744	HB2	LEU	X	382	64.981	15.778	54.681	0.00	0.00
ATOM	5745	HB3	LEU	X	382	66.132	14.416	54.843	0.00	0.00
ATOM	5746	CG	LEU	X	382	64.170	13.934	55.459	0.00	0.00
ATOM	5747	HG	LEU	X	382	63.304	14.387	55.941	0.00	0.00
ATOM	5748	CD1	LEU	X	382	63.692	13.471	54.047	0.00	0.00
ATOM	5749	HD11	LEU	X	382	63.150	14.314	53.618	0.00	0.00
ATOM	5750	HD12	LEU	X	382	63.012	12.619	54.075	0.00	0.00
ATOM	5751	HD13	LEU	X	382	64.591	13.235	53.479	0.00	0.00
ATOM	5752	CD2	LEU	X	382	64.588	12.698	56.302	0.00	0.00
ATOM	5753	HD21	LEU	X	382	65.309	12.247	55.619	0.00	0.00
ATOM	5754	HD22	LEU	X	382	64.997	12.905	57.291	0.00	0.00
ATOM	5755	HD23	LEU	X	382	63.728	12.029	56.341	0.00	0.00
ATOM	5756	C	LEU	X	382	67.377	16.052	56.289	0.00	0.00
ATOM	5757	O	LEU	X	382	68.392	15.335	56.437	0.00	0.00
ATOM	5758	N	HIE	X	383	67.497	17.363	55.986	0.00	0.00
ATOM	5759	H	HIE	X	383	66.558	17.732	55.947	0.00	0.00
ATOM	5760	CA	HIE	X	383	68.606	18.303	55.933	0.00	0.00
ATOM	5761	HA	HIE	X	383	69.360	18.014	56.665	0.00	0.00
ATOM	5762	CB	HIE	X	383	69.203	18.292	54.528	0.00	0.00
ATOM	5763	HB2	HIE	X	383	69.292	17.294	54.099	0.00	0.00
ATOM	5764	HB3	HIE	X	383	68.542	18.932	53.944	0.00	0.00
ATOM	5765	CG	HIE	X	383	70.611	18.896	54.485	0.00	0.00
ATOM	5766	ND1	HIE	X	383	71.096	19.803	55.450	0.00	0.00
ATOM	5767	CE1	HIE	X	383	72.285	20.243	55.032	0.00	0.00
ATOM	5768	HE1	HIE	X	383	72.940	20.956	55.510	0.00	0.00
ATOM	5769	NE2	HIE	X	383	72.587	19.568	53.893	0.00	0.00
ATOM	5770	HE2	HIE	X	383	73.429	19.713	53.354	0.00	0.00
ATOM	5771	CD2	HIE	X	383	71.512	18.832	53.536	0.00	0.00
ATOM	5772	HD2	HIE	X	383	71.299	18.323	52.607	0.00	0.00
ATOM	5773	C	HIE	X	383	68.174	19.770	56.308	0.00	0.00
ATOM	5774	O	HIE	X	383	67.621	20.434	55.412	0.00	0.00
ATOM	5775	N	PRO	X	384	68.278	20.270	57.579	0.00	0.00
ATOM	5776	CD	PRO	X	384	68.727	19.544	58.803	0.00	0.00
ATOM	5777	HD2	PRO	X	384	69.648	18.984	58.643	0.00	0.00
ATOM	5778	HD3	PRO	X	384	68.031	18.769	59.125	0.00	0.00
ATOM	5779	CG	PRO	X	384	69.003	20.544	59.894	0.00	0.00
ATOM	5780	HG2	PRO	X	384	70.021	20.909	60.029	0.00	0.00
ATOM	5781	HG3	PRO	X	384	68.570	20.066	60.773	0.00	0.00
ATOM	5782	CB	PRO	X	384	68.113	21.709	59.452	0.00	0.00
ATOM	5783	HB2	PRO	X	384	68.692	22.604	59.680	0.00	0.00
ATOM	5784	HB3	PRO	X	384	67.129	21.657	59.919	0.00	0.00
ATOM	5785	CA	PRO	X	384	67.824	21.638	57.971	0.00	0.00
ATOM	5786	HA	PRO	X	384	66.748	21.747	57.830	0.00	0.00
ATOM	5787	C	PRO	X	384	68.636	22.762	57.269	0.00	0.00
ATOM	5788	O	PRO	X	384	68.205	23.946	57.245	0.00	0.00
ATOM	5789	N	GLU	X	385	69.795	22.510	56.718	0.00	0.00
ATOM	5790	H	GLU	X	385	70.235	21.608	56.830	0.00	0.00
ATOM	5791	CA	GLU	X	385	70.771	23.525	56.339	0.00	0.00
ATOM	5792	HA	GLU	X	385	70.356	24.490	56.633	0.00	0.00
ATOM	5793	CB	GLU	X	385	72.147	23.420	57.144	0.00	0.00
ATOM	5794	HB2	GLU	X	385	72.666	22.478	56.969	0.00	0.00
ATOM	5795	HB3	GLU	X	385	72.841	24.137	56.705	0.00	0.00
ATOM	5796	CG	GLU	X	385	72.081	23.633	58.649	0.00	0.00
ATOM	5797	HG2	GLU	X	385	71.678	24.627	58.841	0.00	0.00
ATOM	5798	HG3	GLU	X	385	71.520	22.736	58.912	0.00	0.00
ATOM	5799	CD	GLU	X	385	73.487	23.544	59.270	0.00	0.00
ATOM	5800	OE1	GLU	X	385	73.889	22.420	59.707	0.00	0.00
ATOM	5801	OE2	GLU	X	385	74.093	24.554	59.594	0.00	0.00
ATOM	5802	C	GLU	X	385	71.051	23.642	54.814	0.00	0.00
ATOM	5803	O	GLU	X	385	71.702	24.614	54.318	0.00	0.00
ATOM	5804	N	ASP	X	386	70.389	22.792	53.979	0.00	0.00
ATOM	5805	H	ASP	X	386	69.820	22.022	54.301	0.00	0.00
ATOM	5806	CA	ASP	X	386	70.391	22.947	52.525	0.00	0.00
ATOM	5807	HA	ASP	X	386	71.419	22.743	52.227	0.00	0.00

ATOM	5808	CB	ASP	X	386	69.582	21.929	51.884	0.00	0.00
ATOM	5809	HB2	ASP	X	386	69.960	20.967	52.229	0.00	0.00
ATOM	5810	HB3	ASP	X	386	68.521	22.023	52.113	0.00	0.00
ATOM	5811	CG	ASP	X	386	69.820	21.785	50.377	0.00	0.00
ATOM	5812	OD1	ASP	X	386	70.543	20.862	49.892	0.00	0.00
ATOM	5813	OD2	ASP	X	386	69.193	22.553	49.599	0.00	0.00
ATOM	5814	C	ASP	X	386	69.946	24.365	52.103	0.00	0.00
ATOM	5815	O	ASP	X	386	68.789	24.751	52.408	0.00	0.00
ATOM	5816	N	PRO	X	387	70.691	25.104	51.255	0.00	0.00
ATOM	5817	CD	PRO	X	387	71.987	24.813	50.720	0.00	0.00
ATOM	5818	HD2	PRO	X	387	71.966	23.959	50.043	0.00	0.00
ATOM	5819	HD3	PRO	X	387	72.705	24.531	51.491	0.00	0.00
ATOM	5820	CG	PRO	X	387	72.409	26.026	49.956	0.00	0.00
ATOM	5821	HG2	PRO	X	387	72.420	25.883	48.875	0.00	0.00
ATOM	5822	HG3	PRO	X	387	73.399	26.403	50.212	0.00	0.00
ATOM	5823	CB	PRO	X	387	71.458	27.102	50.294	0.00	0.00
ATOM	5824	HB2	PRO	X	387	71.210	27.827	49.519	0.00	0.00
ATOM	5825	HB3	PRO	X	387	71.837	27.763	51.073	0.00	0.00
ATOM	5826	CA	PRO	X	387	70.213	26.428	50.887	0.00	0.00
ATOM	5827	HA	PRO	X	387	69.900	26.904	51.817	0.00	0.00
ATOM	5828	C	PRO	X	387	69.057	26.503	49.878	0.00	0.00
ATOM	5829	O	PRO	X	387	68.450	27.546	49.685	0.00	0.00
ATOM	5830	N	ALA	X	388	68.674	25.401	49.212	0.00	0.00
ATOM	5831	H	ALA	X	388	69.103	24.486	49.197	0.00	0.00
ATOM	5832	CA	ALA	X	388	67.598	25.504	48.267	0.00	0.00
ATOM	5833	HA	ALA	X	388	67.463	26.495	47.835	0.00	0.00
ATOM	5834	CB	ALA	X	388	68.027	24.604	47.121	0.00	0.00
ATOM	5835	HB1	ALA	X	388	68.252	23.647	47.592	0.00	0.00
ATOM	5836	HB2	ALA	X	388	68.859	25.024	46.556	0.00	0.00
ATOM	5837	HB3	ALA	X	388	67.157	24.482	46.476	0.00	0.00
ATOM	5838	C	ALA	X	388	66.296	25.066	48.943	0.00	0.00
ATOM	5839	O	ALA	X	388	65.315	25.792	48.754	0.00	0.00
ATOM	5840	N	ARG	X	389	66.354	24.048	49.842	0.00	0.00
ATOM	5841	H	ARG	X	389	67.159	23.437	49.832	0.00	0.00
ATOM	5842	CA	ARG	X	389	65.193	23.706	50.722	0.00	0.00
ATOM	5843	HA	ARG	X	389	64.371	23.548	50.023	0.00	0.00
ATOM	5844	CB	ARG	X	389	65.455	22.455	51.629	0.00	0.00
ATOM	5845	HB2	ARG	X	389	66.404	22.595	52.146	0.00	0.00
ATOM	5846	HB3	ARG	X	389	64.696	22.338	52.403	0.00	0.00
ATOM	5847	CG	ARG	X	389	65.579	21.079	50.870	0.00	0.00
ATOM	5848	HG2	ARG	X	389	64.741	20.952	50.184	0.00	0.00
ATOM	5849	HG3	ARG	X	389	66.421	21.022	50.181	0.00	0.00
ATOM	5850	CD	ARG	X	389	65.690	19.839	51.760	0.00	0.00
ATOM	5851	HD2	ARG	X	389	66.441	20.071	52.515	0.00	0.00
ATOM	5852	HD3	ARG	X	389	64.715	19.583	52.174	0.00	0.00
ATOM	5853	NE	ARG	X	389	66.067	18.735	50.874	0.00	0.00
ATOM	5854	HE	ARG	X	389	65.898	18.863	49.886	0.00	0.00
ATOM	5855	CZ	ARG	X	389	66.167	17.492	51.247	0.00	0.00
ATOM	5856	NH1	ARG	X	389	65.925	17.072	52.456	0.00	0.00
ATOM	5857	HH11	ARG	X	389	65.510	17.680	53.147	0.00	0.00
ATOM	5858	HH12	ARG	X	389	65.874	16.107	52.749	0.00	0.00
ATOM	5859	NH2	ARG	X	389	66.504	16.583	50.335	0.00	0.00
ATOM	5860	HH21	ARG	X	389	66.952	16.943	49.505	0.00	0.00
ATOM	5861	HH22	ARG	X	389	66.720	15.624	50.568	0.00	0.00
ATOM	5862	C	ARG	X	389	64.838	24.846	51.668	0.00	0.00
ATOM	5863	O	ARG	X	389	63.603	25.045	51.935	0.00	0.00
ATOM	5864	N	LEU	X	390	65.799	25.679	52.085	0.00	0.00
ATOM	5865	H	LEU	X	390	66.716	25.441	51.735	0.00	0.00
ATOM	5866	CA	LEU	X	390	65.597	26.929	52.854	0.00	0.00
ATOM	5867	HA	LEU	X	390	64.802	26.762	53.581	0.00	0.00
ATOM	5868	CB	LEU	X	390	66.872	27.474	53.468	0.00	0.00
ATOM	5869	HB2	LEU	X	390	67.596	27.576	52.660	0.00	0.00
ATOM	5870	HB3	LEU	X	390	66.550	28.373	53.993	0.00	0.00
ATOM	5871	CG	LEU	X	390	67.388	26.567	54.626	0.00	0.00
ATOM	5872	HG	LEU	X	390	67.341	25.534	54.280	0.00	0.00
ATOM	5873	CD1	LEU	X	390	68.753	27.028	55.002	0.00	0.00
ATOM	5874	HD11	LEU	X	390	69.237	26.409	55.757	0.00	0.00

ATOM	5875	HD12	LEU	X	390	68.690	28.022	55.445	0.00	0.00
ATOM	5876	HD13	LEU	X	390	69.377	26.934	54.113	0.00	0.00
ATOM	5877	CD2	LEU	X	390	66.593	26.629	55.945	0.00	0.00
ATOM	5878	HD21	LEU	X	390	66.402	27.682	56.150	0.00	0.00
ATOM	5879	HD22	LEU	X	390	65.633	26.125	55.839	0.00	0.00
ATOM	5880	HD23	LEU	X	390	67.096	26.201	56.813	0.00	0.00
ATOM	5881	C	LEU	X	390	65.100	28.115	51.949	0.00	0.00
ATOM	5882	O	LEU	X	390	64.213	28.905	52.292	0.00	0.00
ATOM	5883	N	ARG	X	391	65.577	28.105	50.704	0.00	0.00
ATOM	5884	H	ARG	X	391	66.293	27.459	50.403	0.00	0.00
ATOM	5885	CA	ARG	X	391	65.049	29.002	49.774	0.00	0.00
ATOM	5886	HA	ARG	X	391	65.228	29.978	50.225	0.00	0.00
ATOM	5887	CB	ARG	X	391	65.828	29.025	48.498	0.00	0.00
ATOM	5888	HB2	ARG	X	391	66.889	29.032	48.748	0.00	0.00
ATOM	5889	HB3	ARG	X	391	65.549	28.118	47.961	0.00	0.00
ATOM	5890	CG	ARG	X	391	65.473	30.283	47.588	0.00	0.00
ATOM	5891	HG2	ARG	X	391	64.398	30.460	47.547	0.00	0.00
ATOM	5892	HG3	ARG	X	391	65.913	31.174	48.034	0.00	0.00
ATOM	5893	CD	ARG	X	391	66.030	30.153	46.137	0.00	0.00
ATOM	5894	HD2	ARG	X	391	65.498	29.413	45.540	0.00	0.00
ATOM	5895	HD3	ARG	X	391	65.823	31.145	45.735	0.00	0.00
ATOM	5896	NE	ARG	X	391	67.530	30.014	46.025	0.00	0.00
ATOM	5897	HE	ARG	X	391	68.114	30.705	46.474	0.00	0.00
ATOM	5898	CZ	ARG	X	391	68.187	28.944	45.542	0.00	0.00
ATOM	5899	NH1	ARG	X	391	67.530	27.832	45.117	0.00	0.00
ATOM	5900	HH11	ARG	X	391	66.520	27.815	45.122	0.00	0.00
ATOM	5901	HH12	ARG	X	391	68.149	27.114	44.769	0.00	0.00
ATOM	5902	NH2	ARG	X	391	69.466	28.897	45.524	0.00	0.00
ATOM	5903	HH21	ARG	X	391	70.048	29.707	45.683	0.00	0.00
ATOM	5904	HH22	ARG	X	391	69.891	28.066	45.137	0.00	0.00
ATOM	5905	C	ARG	X	391	63.523	28.709	49.468	0.00	0.00
ATOM	5906	O	ARG	X	391	62.796	29.652	49.457	0.00	0.00
ATOM	5907	N	GLU	X	392	63.173	27.486	49.180	0.00	0.00
ATOM	5908	H	GLU	X	392	63.824	26.725	49.051	0.00	0.00
ATOM	5909	CA	GLU	X	392	61.746	27.114	48.857	0.00	0.00
ATOM	5910	HA	GLU	X	392	61.519	27.745	47.997	0.00	0.00
ATOM	5911	CB	GLU	X	392	61.760	25.663	48.480	0.00	0.00
ATOM	5912	HB2	GLU	X	392	62.183	24.962	49.200	0.00	0.00
ATOM	5913	HB3	GLU	X	392	60.695	25.427	48.484	0.00	0.00
ATOM	5914	CG	GLU	X	392	62.370	25.386	47.083	0.00	0.00
ATOM	5915	HG2	GLU	X	392	61.759	25.805	46.284	0.00	0.00
ATOM	5916	HG3	GLU	X	392	63.376	25.797	46.996	0.00	0.00
ATOM	5917	CD	GLU	X	392	62.376	23.901	46.733	0.00	0.00
ATOM	5918	OE1	GLU	X	392	62.934	23.042	47.487	0.00	0.00
ATOM	5919	OE2	GLU	X	392	61.944	23.540	45.649	0.00	0.00
ATOM	5920	C	GLU	X	392	60.821	27.322	50.036	0.00	0.00
ATOM	5921	O	GLU	X	392	59.831	27.981	49.831	0.00	0.00
ATOM	5922	N	ALA	X	393	61.308	27.109	51.268	0.00	0.00
ATOM	5923	H	ALA	X	393	62.199	26.646	51.382	0.00	0.00
ATOM	5924	CA	ALA	X	393	60.654	27.436	52.582	0.00	0.00
ATOM	5925	HA	ALA	X	393	59.661	26.993	52.648	0.00	0.00
ATOM	5926	CB	ALA	X	393	61.514	26.990	53.768	0.00	0.00
ATOM	5927	HB1	ALA	X	393	61.030	27.170	54.727	0.00	0.00
ATOM	5928	HB2	ALA	X	393	62.446	27.542	53.889	0.00	0.00
ATOM	5929	HB3	ALA	X	393	61.692	25.917	53.704	0.00	0.00
ATOM	5930	C	ALA	X	393	60.371	28.945	52.656	0.00	0.00
ATOM	5931	O	ALA	X	393	59.284	29.348	53.075	0.00	0.00
ATOM	5932	N	LEU	X	394	61.381	29.801	52.318	0.00	0.00
ATOM	5933	H	LEU	X	394	62.247	29.436	51.948	0.00	0.00
ATOM	5934	CA	LEU	X	394	61.254	31.289	52.295	0.00	0.00
ATOM	5935	HA	LEU	X	394	61.021	31.538	53.331	0.00	0.00
ATOM	5936	CB	LEU	X	394	62.596	31.873	51.887	0.00	0.00
ATOM	5937	HB2	LEU	X	394	63.338	31.510	52.598	0.00	0.00
ATOM	5938	HB3	LEU	X	394	62.993	31.613	50.905	0.00	0.00
ATOM	5939	CG	LEU	X	394	62.708	33.420	52.028	0.00	0.00
ATOM	5940	HG	LEU	X	394	62.347	33.907	51.122	0.00	0.00
ATOM	5941	CD1	LEU	X	394	62.083	33.978	53.291	0.00	0.00

ATOM	5942	HD11	LEU	X	394	61.002	34.009	53.155	0.00	0.00
ATOM	5943	HD12	LEU	X	394	62.390	35.014	53.436	0.00	0.00
ATOM	5944	HD13	LEU	X	394	62.322	33.284	54.097	0.00	0.00
ATOM	5945	CD2	LEU	X	394	64.179	33.767	51.957	0.00	0.00
ATOM	5946	HD21	LEU	X	394	64.205	34.856	51.910	0.00	0.00
ATOM	5947	HD22	LEU	X	394	64.669	33.279	52.799	0.00	0.00
ATOM	5948	HD23	LEU	X	394	64.655	33.415	51.042	0.00	0.00
ATOM	5949	C	LEU	X	394	60.143	31.746	51.348	0.00	0.00
ATOM	5950	O	LEU	X	394	59.288	32.564	51.668	0.00	0.00
ATOM	5951	N	SER	X	395	60.083	31.124	50.158	0.00	0.00
ATOM	5952	H	SER	X	395	60.894	30.621	49.827	0.00	0.00
ATOM	5953	CA	SER	X	395	58.986	31.288	49.227	0.00	0.00
ATOM	5954	HA	SER	X	395	58.832	32.361	49.111	0.00	0.00
ATOM	5955	CB	SER	X	395	59.200	30.684	47.803	0.00	0.00
ATOM	5956	HB2	SER	X	395	59.091	29.599	47.800	0.00	0.00
ATOM	5957	HB3	SER	X	395	58.333	30.984	47.215	0.00	0.00
ATOM	5958	OG	SER	X	395	60.405	31.102	47.241	0.00	0.00
ATOM	5959	HG	SER	X	395	60.487	30.689	46.378	0.00	0.00
ATOM	5960	C	SER	X	395	57.590	30.773	49.706	0.00	0.00
ATOM	5961	O	SER	X	395	56.605	31.442	49.424	0.00	0.00
ATOM	5962	N	ASP	X	396	57.553	29.622	50.380	0.00	0.00
ATOM	5963	H	ASP	X	396	58.412	29.094	50.434	0.00	0.00
ATOM	5964	CA	ASP	X	396	56.352	29.150	50.991	0.00	0.00
ATOM	5965	HA	ASP	X	396	55.545	29.168	50.258	0.00	0.00
ATOM	5966	CB	ASP	X	396	56.350	27.704	51.528	0.00	0.00
ATOM	5967	HB2	ASP	X	396	56.924	27.766	52.452	0.00	0.00
ATOM	5968	HB3	ASP	X	396	55.356	27.409	51.863	0.00	0.00
ATOM	5969	CG	ASP	X	396	56.854	26.632	50.596	0.00	0.00
ATOM	5970	OD1	ASP	X	396	56.472	26.600	49.406	0.00	0.00
ATOM	5971	OD2	ASP	X	396	57.535	25.676	51.081	0.00	0.00
ATOM	5972	C	ASP	X	396	55.842	30.092	52.094	0.00	0.00
ATOM	5973	O	ASP	X	396	54.705	30.570	52.038	0.00	0.00
ATOM	5974	N	VAL	X	397	56.806	30.408	53.030	0.00	0.00
ATOM	5975	H	VAL	X	397	57.688	29.934	52.897	0.00	0.00
ATOM	5976	CA	VAL	X	397	56.410	31.309	54.177	0.00	0.00
ATOM	5977	HA	VAL	X	397	55.688	30.761	54.783	0.00	0.00
ATOM	5978	CB	VAL	X	397	57.664	31.757	55.018	0.00	0.00
ATOM	5979	HB	VAL	X	397	58.499	31.897	54.332	0.00	0.00
ATOM	5980	CG1	VAL	X	397	57.488	33.018	55.876	0.00	0.00
ATOM	5981	HG11	VAL	X	397	58.474	33.262	56.271	0.00	0.00
ATOM	5982	HG12	VAL	X	397	57.208	33.903	55.306	0.00	0.00
ATOM	5983	HG13	VAL	X	397	56.795	32.717	56.662	0.00	0.00
ATOM	5984	CG2	VAL	X	397	58.026	30.581	55.914	0.00	0.00
ATOM	5985	HG21	VAL	X	397	57.290	30.511	56.715	0.00	0.00
ATOM	5986	HG22	VAL	X	397	58.992	30.820	56.358	0.00	0.00
ATOM	5987	HG23	VAL	X	397	58.027	29.655	55.339	0.00	0.00
ATOM	5988	C	VAL	X	397	55.690	32.524	53.605	0.00	0.00
ATOM	5989	O	VAL	X	397	54.572	32.864	53.944	0.00	0.00
ATOM	5990	N	VAL	X	398	56.326	33.200	52.560	0.00	0.00
ATOM	5991	H	VAL	X	398	57.211	32.826	52.248	0.00	0.00
ATOM	5992	CA	VAL	X	398	55.846	34.448	51.954	0.00	0.00
ATOM	5993	HA	VAL	X	398	55.527	35.127	52.744	0.00	0.00
ATOM	5994	CB	VAL	X	398	57.023	35.119	51.178	0.00	0.00
ATOM	5995	HB	VAL	X	398	57.549	34.315	50.663	0.00	0.00
ATOM	5996	CG1	VAL	X	398	56.604	36.172	50.286	0.00	0.00
ATOM	5997	HG11	VAL	X	398	56.166	36.987	50.863	0.00	0.00
ATOM	5998	HG12	VAL	X	398	57.521	36.502	49.798	0.00	0.00
ATOM	5999	HG13	VAL	X	398	55.900	35.856	49.516	0.00	0.00
ATOM	6000	CG2	VAL	X	398	57.983	35.721	52.179	0.00	0.00
ATOM	6001	HG21	VAL	X	398	57.422	36.365	52.856	0.00	0.00
ATOM	6002	HG22	VAL	X	398	58.807	36.251	51.701	0.00	0.00
ATOM	6003	HG23	VAL	X	398	58.363	34.882	52.762	0.00	0.00
ATOM	6004	C	VAL	X	398	54.524	34.212	51.122	0.00	0.00
ATOM	6005	O	VAL	X	398	53.694	35.074	51.056	0.00	0.00
ATOM	6006	N	GLY	X	399	54.304	33.004	50.610	0.00	0.00
ATOM	6007	H	GLY	X	399	54.960	32.276	50.854	0.00	0.00
ATOM	6008	CA	GLY	X	399	53.195	32.647	49.710	0.00	0.00

ATOM	6009	HA2	GLY	X	399	52.925	33.366	48.936	0.00	0.00
ATOM	6010	HA3	GLY	X	399	53.438	31.691	49.247	0.00	0.00
ATOM	6011	C	GLY	X	399	51.923	32.381	50.510	0.00	0.00
ATOM	6012	O	GLY	X	399	50.797	32.722	50.197	0.00	0.00
ATOM	6013	N	ASP	X	400	52.071	31.760	51.658	0.00	0.00
ATOM	6014	H	ASP	X	400	52.987	31.384	51.857	0.00	0.00
ATOM	6015	CA	ASP	X	400	51.013	31.111	52.387	0.00	0.00
ATOM	6016	HA	ASP	X	400	50.398	30.408	51.826	0.00	0.00
ATOM	6017	CB	ASP	X	400	51.546	30.242	53.469	0.00	0.00
ATOM	6018	HB2	ASP	X	400	52.344	30.818	53.937	0.00	0.00
ATOM	6019	HB3	ASP	X	400	50.807	30.135	54.263	0.00	0.00
ATOM	6020	CG	ASP	X	400	51.969	28.836	53.092	0.00	0.00
ATOM	6021	OD1	ASP	X	400	51.829	28.505	51.898	0.00	0.00
ATOM	6022	OD2	ASP	X	400	52.394	28.018	53.908	0.00	0.00
ATOM	6023	C	ASP	X	400	50.055	32.198	52.952	0.00	0.00
ATOM	6024	O	ASP	X	400	49.063	32.525	52.346	0.00	0.00
ATOM	6025	N	HIE	X	401	50.391	32.697	54.160	0.00	0.00
ATOM	6026	H	HIE	X	401	51.175	32.297	54.657	0.00	0.00
ATOM	6027	CA	HIE	X	401	49.545	33.638	54.855	0.00	0.00
ATOM	6028	HA	HIE	X	401	48.578	33.177	55.057	0.00	0.00
ATOM	6029	CB	HIE	X	401	50.207	33.987	56.183	0.00	0.00
ATOM	6030	HB2	HIE	X	401	49.420	34.443	56.783	0.00	0.00
ATOM	6031	HB3	HIE	X	401	50.470	33.041	56.656	0.00	0.00
ATOM	6032	CG	HIE	X	401	51.396	34.925	56.053	0.00	0.00
ATOM	6033	ND1	HIE	X	401	51.547	36.344	56.180	0.00	0.00
ATOM	6034	CE1	HIE	X	401	52.739	36.681	55.767	0.00	0.00
ATOM	6035	HE1	HIE	X	401	53.056	37.693	55.567	0.00	0.00
ATOM	6036	NE2	HIE	X	401	53.362	35.631	55.231	0.00	0.00
ATOM	6037	HE2	HIE	X	401	54.233	35.643	54.719	0.00	0.00
ATOM	6038	CD2	HIE	X	401	52.541	34.551	55.489	0.00	0.00
ATOM	6039	HD2	HIE	X	401	52.798	33.528	55.255	0.00	0.00
ATOM	6040	C	HIE	X	401	49.180	34.939	54.065	0.00	0.00
ATOM	6041	O	HIE	X	401	48.075	35.461	54.155	0.00	0.00
ATOM	6042	N	ASN	X	402	49.943	35.338	53.050	0.00	0.00
ATOM	6043	H	ASN	X	402	50.805	34.825	52.926	0.00	0.00
ATOM	6044	CA	ASN	X	402	49.747	36.417	52.123	0.00	0.00
ATOM	6045	HA	ASN	X	402	49.346	37.332	52.561	0.00	0.00
ATOM	6046	CB	ASN	X	402	51.038	36.887	51.461	0.00	0.00
ATOM	6047	HB2	ASN	X	402	51.532	36.054	50.962	0.00	0.00
ATOM	6048	HB3	ASN	X	402	50.915	37.577	50.626	0.00	0.00
ATOM	6049	CG	ASN	X	402	51.928	37.661	52.440	0.00	0.00
ATOM	6050	OD1	ASN	X	402	51.445	38.614	52.993	0.00	0.00
ATOM	6051	ND2	ASN	X	402	53.237	37.469	52.378	0.00	0.00
ATOM	6052	HD21	ASN	X	402	53.804	38.140	52.874	0.00	0.00
ATOM	6053	HD22	ASN	X	402	53.585	36.698	51.826	0.00	0.00
ATOM	6054	C	ASN	X	402	48.753	36.048	50.975	0.00	0.00
ATOM	6055	O	ASN	X	402	48.079	36.982	50.553	0.00	0.00
ATOM	6056	N	VAL	X	403	48.712	34.845	50.407	0.00	0.00
ATOM	6057	H	VAL	X	403	49.350	34.178	50.817	0.00	0.00
ATOM	6058	CA	VAL	X	403	47.749	34.650	49.271	0.00	0.00
ATOM	6059	HA	VAL	X	403	46.845	35.208	49.514	0.00	0.00
ATOM	6060	CB	VAL	X	403	48.337	35.236	47.993	0.00	0.00
ATOM	6061	HB	VAL	X	403	48.491	36.310	48.100	0.00	0.00
ATOM	6062	CG1	VAL	X	403	49.648	34.486	47.619	0.00	0.00
ATOM	6063	HG11	VAL	X	403	49.507	33.431	47.386	0.00	0.00
ATOM	6064	HG12	VAL	X	403	50.111	34.957	46.752	0.00	0.00
ATOM	6065	HG13	VAL	X	403	50.489	34.651	48.293	0.00	0.00
ATOM	6066	CG2	VAL	X	403	47.374	34.872	46.857	0.00	0.00
ATOM	6067	HG21	VAL	X	403	47.750	35.444	46.009	0.00	0.00
ATOM	6068	HG22	VAL	X	403	46.361	35.173	47.121	0.00	0.00
ATOM	6069	HG23	VAL	X	403	47.367	33.806	46.630	0.00	0.00
ATOM	6070	C	VAL	X	403	47.277	33.183	49.121	0.00	0.00
ATOM	6071	O	VAL	X	403	46.068	32.987	49.054	0.00	0.00
ATOM	6072	N	VAL	X	404	48.043	32.121	49.332	0.00	0.00
ATOM	6073	H	VAL	X	404	49.042	32.230	49.430	0.00	0.00
ATOM	6074	CA	VAL	X	404	47.521	30.680	49.200	0.00	0.00
ATOM	6075	HA	VAL	X	404	46.958	30.727	48.268	0.00	0.00

ATOM	6076	CB	VAL	X	404	48.614	29.607	49.044	0.00	0.00
ATOM	6077	HB	VAL	X	404	49.203	29.495	49.954	0.00	0.00
ATOM	6078	CG1	VAL	X	404	48.103	28.229	48.798	0.00	0.00
ATOM	6079	HG11	VAL	X	404	47.412	28.190	47.956	0.00	0.00
ATOM	6080	HG12	VAL	X	404	48.889	27.478	48.708	0.00	0.00
ATOM	6081	HG13	VAL	X	404	47.420	27.978	49.609	0.00	0.00
ATOM	6082	CG2	VAL	X	404	49.623	30.005	47.948	0.00	0.00
ATOM	6083	HG21	VAL	X	404	49.142	30.273	47.008	0.00	0.00
ATOM	6084	HG22	VAL	X	404	50.272	29.181	47.651	0.00	0.00
ATOM	6085	HG23	VAL	X	404	50.194	30.916	48.130	0.00	0.00
ATOM	6086	C	VAL	X	404	46.618	30.333	50.326	0.00	0.00
ATOM	6087	O	VAL	X	404	45.614	29.654	50.199	0.00	0.00
ATOM	6088	N	CYX	X	405	46.922	30.849	51.557	0.00	0.00
ATOM	6089	H	CYX	X	405	47.716	31.469	51.628	0.00	0.00
ATOM	6090	CA	CYX	X	405	46.090	30.721	52.772	0.00	0.00
ATOM	6091	HA	CYX	X	405	45.769	29.683	52.859	0.00	0.00
ATOM	6092	CB	CYX	X	405	46.821	30.850	54.117	0.00	0.00
ATOM	6093	HB2	CYX	X	405	47.396	31.775	54.066	0.00	0.00
ATOM	6094	HB3	CYX	X	405	46.167	30.959	54.983	0.00	0.00
ATOM	6095	SG	CYX	X	405	48.040	29.487	54.498	0.00	0.00
ATOM	6096	C	CYX	X	405	44.864	31.536	52.692	0.00	0.00
ATOM	6097	O	CYX	X	405	43.825	30.906	52.721	0.00	0.00
ATOM	6098	N	PRO	X	406	44.911	32.851	52.461	0.00	0.00
ATOM	6099	CD	PRO	X	406	46.042	33.732	52.576	0.00	0.00
ATOM	6100	HD2	PRO	X	406	46.702	33.447	51.757	0.00	0.00
ATOM	6101	HD3	PRO	X	406	46.558	33.602	53.527	0.00	0.00
ATOM	6102	CG	PRO	X	406	45.495	35.174	52.604	0.00	0.00
ATOM	6103	HG2	PRO	X	406	46.237	35.887	52.244	0.00	0.00
ATOM	6104	HB3	PRO	X	406	45.203	35.473	53.611	0.00	0.00
ATOM	6105	CB	PRO	X	406	44.210	35.067	51.772	0.00	0.00
ATOM	6106	HB2	PRO	X	406	44.303	35.195	50.694	0.00	0.00
ATOM	6107	HB3	PRO	X	406	43.566	35.873	52.124	0.00	0.00
ATOM	6108	CA	PRO	X	406	43.726	33.662	52.079	0.00	0.00
ATOM	6109	HA	PRO	X	406	43.152	33.806	52.994	0.00	0.00
ATOM	6110	C	PRO	X	406	42.762	33.105	51.043	0.00	0.00
ATOM	6111	O	PRO	X	406	41.637	32.914	51.461	0.00	0.00
ATOM	6112	N	VAL	X	407	43.255	32.571	49.920	0.00	0.00
ATOM	6113	H	VAL	X	407	44.215	32.809	49.715	0.00	0.00
ATOM	6114	CA	VAL	X	407	42.465	31.874	48.875	0.00	0.00
ATOM	6115	HA	VAL	X	407	41.678	32.541	48.525	0.00	0.00
ATOM	6116	CB	VAL	X	407	43.342	31.539	47.721	0.00	0.00
ATOM	6117	HB	VAL	X	407	44.331	31.217	48.047	0.00	0.00
ATOM	6118	CG1	VAL	X	407	42.841	30.475	46.795	0.00	0.00
ATOM	6119	HG11	VAL	X	407	41.883	30.770	46.368	0.00	0.00
ATOM	6120	HG12	VAL	X	407	43.496	30.182	45.975	0.00	0.00
ATOM	6121	HG13	VAL	X	407	42.777	29.543	47.357	0.00	0.00
ATOM	6122	CG2	VAL	X	407	43.433	32.752	46.729	0.00	0.00
ATOM	6123	HG21	VAL	X	407	42.463	32.995	46.294	0.00	0.00
ATOM	6124	HG22	VAL	X	407	44.024	32.433	45.870	0.00	0.00
ATOM	6125	HG23	VAL	X	407	43.863	33.661	47.148	0.00	0.00
ATOM	6126	C	VAL	X	407	41.774	30.603	49.402	0.00	0.00
ATOM	6127	O	VAL	X	407	40.605	30.418	49.095	0.00	0.00
ATOM	6128	N	ALA	X	408	42.393	29.740	50.188	0.00	0.00
ATOM	6129	H	ALA	X	408	43.325	30.063	50.406	0.00	0.00
ATOM	6130	CA	ALA	X	408	41.849	28.503	50.805	0.00	0.00
ATOM	6131	HA	ALA	X	408	41.410	27.955	49.971	0.00	0.00
ATOM	6132	CB	ALA	X	408	43.030	27.777	51.481	0.00	0.00
ATOM	6133	HB1	ALA	X	408	42.611	26.794	51.694	0.00	0.00
ATOM	6134	HB2	ALA	X	408	43.283	28.317	52.393	0.00	0.00
ATOM	6135	HB3	ALA	X	408	43.929	27.727	50.867	0.00	0.00
ATOM	6136	C	ALA	X	408	40.680	28.826	51.722	0.00	0.00
ATOM	6137	O	ALA	X	408	39.696	28.061	51.785	0.00	0.00
ATOM	6138	N	GLN	X	409	40.850	29.834	52.548	0.00	0.00
ATOM	6139	H	GLN	X	409	41.687	30.392	52.462	0.00	0.00
ATOM	6140	CA	GLN	X	409	40.008	30.188	53.658	0.00	0.00
ATOM	6141	HA	GLN	X	409	39.692	29.255	54.126	0.00	0.00
ATOM	6142	CB	GLN	X	409	40.666	31.106	54.684	0.00	0.00

ATOM	6143	HB2	GLN	X	409	40.987	32.025	54.194	0.00	0.00
ATOM	6144	HB3	GLN	X	409	39.815	31.348	55.319	0.00	0.00
ATOM	6145	CG	GLN	X	409	41.791	30.529	55.516	0.00	0.00
ATOM	6146	HG2	GLN	X	409	41.419	29.687	56.100	0.00	0.00
ATOM	6147	HG3	GLN	X	409	42.591	30.157	54.877	0.00	0.00
ATOM	6148	CD	GLN	X	409	42.474	31.638	56.277	0.00	0.00
ATOM	6149	OE1	GLN	X	409	43.247	32.404	55.789	0.00	0.00
ATOM	6150	NE2	GLN	X	409	42.171	31.819	57.510	0.00	0.00
ATOM	6151	HE21	GLN	X	409	42.565	32.595	58.023	0.00	0.00
ATOM	6152	HE22	GLN	X	409	41.513	31.185	57.942	0.00	0.00
ATOM	6153	C	GLN	X	409	38.801	30.798	53.068	0.00	0.00
ATOM	6154	O	GLN	X	409	37.725	30.524	53.608	0.00	0.00
ATOM	6155	N	LEU	X	410	38.901	31.608	51.984	0.00	0.00
ATOM	6156	H	LEU	X	410	39.811	31.870	51.633	0.00	0.00
ATOM	6157	CA	LEU	X	410	37.871	32.166	51.150	0.00	0.00
ATOM	6158	HA	LEU	X	410	37.125	32.628	51.797	0.00	0.00
ATOM	6159	CB	LEU	X	410	38.520	33.188	50.196	0.00	0.00
ATOM	6160	HB2	LEU	X	410	38.899	34.071	50.709	0.00	0.00
ATOM	6161	HB3	LEU	X	410	39.316	32.598	49.741	0.00	0.00
ATOM	6162	CG	LEU	X	410	37.508	33.627	49.086	0.00	0.00
ATOM	6163	HG	LEU	X	410	37.159	32.739	48.559	0.00	0.00
ATOM	6164	CD1	LEU	X	410	36.293	34.497	49.637	0.00	0.00
ATOM	6165	HD11	LEU	X	410	36.551	35.503	49.969	0.00	0.00
ATOM	6166	HD12	LEU	X	410	35.721	33.951	50.387	0.00	0.00
ATOM	6167	HD13	LEU	X	410	35.522	34.653	48.882	0.00	0.00
ATOM	6168	CD2	LEU	X	410	38.290	34.466	47.978	0.00	0.00
ATOM	6169	HD21	LEU	X	410	38.791	35.358	48.353	0.00	0.00
ATOM	6170	HD22	LEU	X	410	38.984	33.770	47.507	0.00	0.00
ATOM	6171	HD23	LEU	X	410	37.619	34.831	47.201	0.00	0.00
ATOM	6172	C	LEU	X	410	37.041	31.042	50.490	0.00	0.00
ATOM	6173	O	LEU	X	410	35.884	30.958	50.812	0.00	0.00
ATOM	6174	N	ALA	X	411	37.670	30.182	49.667	0.00	0.00
ATOM	6175	H	ALA	X	411	38.659	30.265	49.479	0.00	0.00
ATOM	6176	CA	ALA	X	411	36.974	29.000	49.141	0.00	0.00
ATOM	6177	HA	ALA	X	411	36.156	29.349	48.512	0.00	0.00
ATOM	6178	CB	ALA	X	411	38.063	28.178	48.368	0.00	0.00
ATOM	6179	HB1	ALA	X	411	38.303	28.899	47.587	0.00	0.00
ATOM	6180	HB2	ALA	X	411	37.460	27.383	47.928	0.00	0.00
ATOM	6181	HB3	ALA	X	411	38.989	27.778	48.782	0.00	0.00
ATOM	6182	C	ALA	X	411	36.242	28.179	50.237	0.00	0.00
ATOM	6183	O	ALA	X	411	35.097	27.782	50.105	0.00	0.00
ATOM	6184	N	GLY	X	412	36.908	28.001	51.363	0.00	0.00
ATOM	6185	H	GLY	X	412	37.800	28.455	51.497	0.00	0.00
ATOM	6186	CA	GLY	X	412	36.363	27.258	52.505	0.00	0.00
ATOM	6187	HA2	GLY	X	412	36.113	26.206	52.371	0.00	0.00
ATOM	6188	HA3	GLY	X	412	37.072	27.300	53.333	0.00	0.00
ATOM	6189	C	GLY	X	412	35.053	27.899	53.055	0.00	0.00
ATOM	6190	O	GLY	X	412	33.966	27.356	53.156	0.00	0.00
ATOM	6191	N	ARG	X	413	35.106	29.215	53.325	0.00	0.00
ATOM	6192	H	ARG	X	413	35.926	29.695	52.983	0.00	0.00
ATOM	6193	CA	ARG	X	413	33.976	29.999	53.835	0.00	0.00
ATOM	6194	HA	ARG	X	413	33.605	29.509	54.734	0.00	0.00
ATOM	6195	CB	ARG	X	413	34.452	31.424	54.132	0.00	0.00
ATOM	6196	HB2	ARG	X	413	35.221	31.261	54.886	0.00	0.00
ATOM	6197	HB3	ARG	X	413	34.781	31.912	53.215	0.00	0.00
ATOM	6198	CG	ARG	X	413	33.202	32.230	54.630	0.00	0.00
ATOM	6199	HG2	ARG	X	413	33.617	33.218	54.825	0.00	0.00
ATOM	6200	HG3	ARG	X	413	32.507	32.418	53.812	0.00	0.00
ATOM	6201	CD	ARG	X	413	32.448	31.579	55.818	0.00	0.00
ATOM	6202	HD2	ARG	X	413	32.076	30.601	55.512	0.00	0.00
ATOM	6203	HD3	ARG	X	413	33.135	31.471	56.657	0.00	0.00
ATOM	6204	NE	ARG	X	413	31.280	32.359	56.208	0.00	0.00
ATOM	6205	HE	ARG	X	413	31.074	33.249	55.776	0.00	0.00
ATOM	6206	CZ	ARG	X	413	30.472	31.993	57.181	0.00	0.00
ATOM	6207	NH1	ARG	X	413	30.547	30.853	57.827	0.00	0.00
ATOM	6208	HH11	ARG	X	413	31.315	30.223	57.643	0.00	0.00
ATOM	6209	HH12	ARG	X	413	29.913	30.593	58.569	0.00	0.00

ATOM	6210	NH2	ARG	X	413	29.404	32.839	57.338	0.00	0.00
ATOM	6211	HH21	ARG	X	413	29.204	33.563	56.663	0.00	0.00
ATOM	6212	HH22	ARG	X	413	28.621	32.529	57.895	0.00	0.00
ATOM	6213	C	ARG	X	413	32.819	30.041	52.798	0.00	0.00
ATOM	6214	O	ARG	X	413	31.646	29.758	53.211	0.00	0.00
ATOM	6215	N	LEU	X	414	33.161	30.282	51.523	0.00	0.00
ATOM	6216	H	LEU	X	414	34.144	30.308	51.293	0.00	0.00
ATOM	6217	CA	LEU	X	414	32.260	30.231	50.369	0.00	0.00
ATOM	6218	HA	LEU	X	414	31.415	30.916	50.428	0.00	0.00
ATOM	6219	CB	LEU	X	414	33.027	30.539	49.058	0.00	0.00
ATOM	6220	HB2	LEU	X	414	33.896	29.887	48.973	0.00	0.00
ATOM	6221	HB3	LEU	X	414	32.302	30.173	48.330	0.00	0.00
ATOM	6222	CG	LEU	X	414	33.415	32.008	48.818	0.00	0.00
ATOM	6223	HG	LEU	X	414	33.920	32.357	49.718	0.00	0.00
ATOM	6224	CD1	LEU	X	414	34.360	32.120	47.609	0.00	0.00
ATOM	6225	HD11	LEU	X	414	33.836	31.949	46.669	0.00	0.00
ATOM	6226	HD12	LEU	X	414	35.143	31.372	47.738	0.00	0.00
ATOM	6227	HD13	LEU	X	414	34.871	33.083	47.597	0.00	0.00
ATOM	6228	CD2	LEU	X	414	32.168	32.905	48.649	0.00	0.00
ATOM	6229	HD21	LEU	X	414	31.357	32.422	48.104	0.00	0.00
ATOM	6230	HD22	LEU	X	414	31.725	33.140	49.617	0.00	0.00
ATOM	6231	HD23	LEU	X	414	32.369	33.893	48.236	0.00	0.00
ATOM	6232	C	LEU	X	414	31.525	28.881	50.299	0.00	0.00
ATOM	6233	O	LEU	X	414	30.328	28.921	50.248	0.00	0.00
ATOM	6234	N	ALA	X	415	32.257	27.785	50.312	0.00	0.00
ATOM	6235	H	ALA	X	415	33.262	27.872	50.362	0.00	0.00
ATOM	6236	CA	ALA	X	415	31.636	26.448	50.266	0.00	0.00
ATOM	6237	HA	ALA	X	415	30.862	26.309	49.512	0.00	0.00
ATOM	6238	CB	ALA	X	415	32.701	25.402	49.911	0.00	0.00
ATOM	6239	HB1	ALA	X	415	32.184	24.442	49.912	0.00	0.00
ATOM	6240	HB2	ALA	X	415	33.498	25.289	50.646	0.00	0.00
ATOM	6241	HB3	ALA	X	415	33.103	25.716	48.948	0.00	0.00
ATOM	6242	C	ALA	X	415	30.846	26.064	51.537	0.00	0.00
ATOM	6243	O	ALA	X	415	29.826	25.357	51.412	0.00	0.00
ATOM	6244	N	ALA	X	416	31.207	26.478	52.763	0.00	0.00
ATOM	6245	H	ALA	X	416	32.163	26.806	52.768	0.00	0.00
ATOM	6246	CA	ALA	X	416	30.422	26.185	53.939	0.00	0.00
ATOM	6247	HA	ALA	X	416	30.143	25.137	54.044	0.00	0.00
ATOM	6248	CB	ALA	X	416	31.103	26.662	55.181	0.00	0.00
ATOM	6249	HB1	ALA	X	416	32.100	26.224	55.232	0.00	0.00
ATOM	6250	HB2	ALA	X	416	30.522	26.397	56.065	0.00	0.00
ATOM	6251	HB3	ALA	X	416	31.101	27.751	55.230	0.00	0.00
ATOM	6252	C	ALA	X	416	29.021	26.954	53.826	0.00	0.00
ATOM	6253	O	ALA	X	416	28.011	26.424	54.335	0.00	0.00
ATOM	6254	N	GLN	X	417	28.996	28.093	53.168	0.00	0.00
ATOM	6255	H	GLN	X	417	29.875	28.458	52.830	0.00	0.00
ATOM	6256	CA	GLN	X	417	27.711	28.873	52.906	0.00	0.00
ATOM	6257	HA	GLN	X	417	27.047	28.480	53.676	0.00	0.00
ATOM	6258	CB	GLN	X	417	27.939	30.367	53.060	0.00	0.00
ATOM	6259	HB2	GLN	X	417	28.521	30.795	52.244	0.00	0.00
ATOM	6260	HB3	GLN	X	417	27.020	30.919	52.865	0.00	0.00
ATOM	6261	CG	GLN	X	417	28.461	30.810	54.432	0.00	0.00
ATOM	6262	HG2	GLN	X	417	29.547	30.719	54.427	0.00	0.00
ATOM	6263	HG3	GLN	X	417	28.224	31.858	54.612	0.00	0.00
ATOM	6264	CD	GLN	X	417	27.764	30.007	55.509	0.00	0.00
ATOM	6265	OE1	GLN	X	417	28.335	29.280	56.281	0.00	0.00
ATOM	6266	NE2	GLN	X	417	26.480	30.242	55.662	0.00	0.00
ATOM	6267	HE21	GLN	X	417	25.963	29.726	56.360	0.00	0.00
ATOM	6268	HE22	GLN	X	417	26.012	30.758	54.930	0.00	0.00
ATOM	6269	C	GLN	X	417	26.992	28.480	51.567	0.00	0.00
ATOM	6270	O	GLN	X	417	25.921	28.982	51.259	0.00	0.00
ATOM	6271	N	GLY	X	418	27.632	27.645	50.783	0.00	0.00
ATOM	6272	H	GLY	X	418	28.490	27.234	51.122	0.00	0.00
ATOM	6273	CA	GLY	X	418	26.932	27.000	49.643	0.00	0.00
ATOM	6274	HA2	GLY	X	418	27.405	26.058	49.366	0.00	0.00
ATOM	6275	HA3	GLY	X	418	25.913	26.753	49.940	0.00	0.00
ATOM	6276	C	GLY	X	418	27.033	27.853	48.450	0.00	0.00

ATOM	6277	O	GLY	X	418	26.134	27.890	47.558	0.00	0.00
ATOM	6278	N	ALA	X	419	28.018	28.755	48.291	0.00	0.00
ATOM	6279	H	ALA	X	419	28.692	28.905	49.028	0.00	0.00
ATOM	6280	CA	ALA	X	419	28.409	29.242	46.998	0.00	0.00
ATOM	6281	HA	ALA	X	419	27.599	29.707	46.435	0.00	0.00
ATOM	6282	CB	ALA	X	419	29.557	30.242	46.988	0.00	0.00
ATOM	6283	HB1	ALA	X	419	29.609	30.806	47.919	0.00	0.00
ATOM	6284	HB2	ALA	X	419	29.451	31.040	46.253	0.00	0.00
ATOM	6285	HB3	ALA	X	419	30.465	29.683	46.761	0.00	0.00
ATOM	6286	C	ALA	X	419	28.855	28.086	46.051	0.00	0.00
ATOM	6287	O	ALA	X	419	29.185	26.951	46.522	0.00	0.00
ATOM	6288	N	ARG	X	420	28.857	28.350	44.741	0.00	0.00
ATOM	6289	H	ARG	X	420	28.570	29.210	44.297	0.00	0.00
ATOM	6290	CA	ARG	X	420	29.439	27.398	43.733	0.00	0.00
ATOM	6291	HA	ARG	X	420	29.327	26.409	44.175	0.00	0.00
ATOM	6292	CB	ARG	X	420	28.480	27.470	42.563	0.00	0.00
ATOM	6293	HB2	ARG	X	420	27.547	27.155	43.030	0.00	0.00
ATOM	6294	HB3	ARG	X	420	28.384	28.481	42.167	0.00	0.00
ATOM	6295	CG	ARG	X	420	28.890	26.408	41.537	0.00	0.00
ATOM	6296	HG2	ARG	X	420	28.361	26.641	40.613	0.00	0.00
ATOM	6297	HG3	ARG	X	420	29.961	26.392	41.338	0.00	0.00
ATOM	6298	CD	ARG	X	420	28.475	24.976	41.870	0.00	0.00
ATOM	6299	HD2	ARG	X	420	28.984	24.676	42.787	0.00	0.00
ATOM	6300	HD3	ARG	X	420	27.417	25.073	42.114	0.00	0.00
ATOM	6301	NE	ARG	X	420	28.563	24.132	40.662	0.00	0.00
ATOM	6302	HE	ARG	X	420	28.757	24.540	39.759	0.00	0.00
ATOM	6303	CZ	ARG	X	420	28.390	22.827	40.682	0.00	0.00
ATOM	6304	NH1	ARG	X	420	28.187	22.075	41.767	0.00	0.00
ATOM	6305	HH11	ARG	X	420	28.249	22.471	42.694	0.00	0.00
ATOM	6306	HH12	ARG	X	420	28.103	21.071	41.695	0.00	0.00
ATOM	6307	NH2	ARG	X	420	28.445	22.259	39.536	0.00	0.00
ATOM	6308	HH21	ARG	X	420	28.426	22.878	38.738	0.00	0.00
ATOM	6309	HH22	ARG	X	420	28.239	21.272	39.473	0.00	0.00
ATOM	6310	C	ARG	X	420	30.843	27.817	43.393	0.00	0.00
ATOM	6311	O	ARG	X	420	31.058	28.858	42.761	0.00	0.00
ATOM	6312	N	VAL	X	421	31.827	26.997	43.832	0.00	0.00
ATOM	6313	H	VAL	X	421	31.645	26.180	44.398	0.00	0.00
ATOM	6314	CA	VAL	X	421	33.220	27.423	43.911	0.00	0.00
ATOM	6315	HA	VAL	X	421	33.357	28.411	43.472	0.00	0.00
ATOM	6316	CB	VAL	X	421	33.867	27.364	45.344	0.00	0.00
ATOM	6317	HB	VAL	X	421	33.864	26.316	45.642	0.00	0.00
ATOM	6318	CG1	VAL	X	421	35.341	27.806	45.329	0.00	0.00
ATOM	6319	HG11	VAL	X	421	35.990	27.376	44.566	0.00	0.00
ATOM	6320	HG12	VAL	X	421	35.364	28.883	45.163	0.00	0.00
ATOM	6321	HG13	VAL	X	421	35.772	27.574	46.303	0.00	0.00
ATOM	6322	CG2	VAL	X	421	33.111	28.270	46.324	0.00	0.00
ATOM	6323	HG21	VAL	X	421	32.133	27.809	46.465	0.00	0.00
ATOM	6324	HG22	VAL	X	421	33.068	29.279	45.915	0.00	0.00
ATOM	6325	HG23	VAL	X	421	33.595	28.340	47.299	0.00	0.00
ATOM	6326	C	VAL	X	421	33.957	26.469	42.963	0.00	0.00
ATOM	6327	O	VAL	X	421	33.549	25.292	42.791	0.00	0.00
ATOM	6328	N	TYR	X	422	34.991	26.981	42.249	0.00	0.00
ATOM	6329	H	TYR	X	422	35.238	27.934	42.473	0.00	0.00
ATOM	6330	CA	TYR	X	422	35.910	26.237	41.350	0.00	0.00
ATOM	6331	HA	TYR	X	422	35.859	25.175	41.589	0.00	0.00
ATOM	6332	CB	TYR	X	422	35.405	26.410	39.881	0.00	0.00
ATOM	6333	HB2	TYR	X	422	35.364	27.484	39.702	0.00	0.00
ATOM	6334	HB3	TYR	X	422	36.176	26.155	39.154	0.00	0.00
ATOM	6335	CG	TYR	X	422	34.096	25.745	39.572	0.00	0.00
ATOM	6336	CD1	TYR	X	422	34.156	24.477	38.941	0.00	0.00
ATOM	6337	HD1	TYR	X	422	35.073	23.960	38.699	0.00	0.00
ATOM	6338	CE1	TYR	X	422	32.936	23.994	38.520	0.00	0.00
ATOM	6339	HE1	TYR	X	422	32.970	23.039	38.016	0.00	0.00
ATOM	6340	CZ	TYR	X	422	31.699	24.569	38.825	0.00	0.00
ATOM	6341	OH	TYR	X	422	30.551	24.077	38.231	0.00	0.00
ATOM	6342	HH	TYR	X	422	30.744	23.513	37.479	0.00	0.00
ATOM	6343	CE2	TYR	X	422	31.659	25.834	39.431	0.00	0.00

ATOM	6344	HE2	TYR	X	422	30.734	26.387	39.487	0.00	0.00
ATOM	6345	CD2	TYR	X	422	32.873	26.427	39.802	0.00	0.00
ATOM	6346	HD2	TYR	X	422	32.843	27.375	40.319	0.00	0.00
ATOM	6347	C	TYR	X	422	37.287	26.780	41.380	0.00	0.00
ATOM	6348	O	TYR	X	422	37.548	27.955	41.205	0.00	0.00
ATOM	6349	N	ALA	X	423	38.293	25.869	41.585	0.00	0.00
ATOM	6350	H	ALA	X	423	38.116	24.875	41.617	0.00	0.00
ATOM	6351	CA	ALA	X	423	39.616	26.286	41.978	0.00	0.00
ATOM	6352	HA	ALA	X	423	39.571	27.369	41.861	0.00	0.00
ATOM	6353	CB	ALA	X	423	39.740	26.035	43.528	0.00	0.00
ATOM	6354	HB1	ALA	X	423	40.702	26.454	43.826	0.00	0.00
ATOM	6355	HB2	ALA	X	423	39.714	24.967	43.748	0.00	0.00
ATOM	6356	HB3	ALA	X	423	39.089	26.600	44.195	0.00	0.00
ATOM	6357	C	ALA	X	423	40.847	25.707	41.208	0.00	0.00
ATOM	6358	O	ALA	X	423	40.839	24.595	40.672	0.00	0.00
ATOM	6359	N	TYR	X	424	41.921	26.493	41.099	0.00	0.00
ATOM	6360	H	TYR	X	424	41.768	27.365	41.585	0.00	0.00
ATOM	6361	CA	TYR	X	424	43.069	26.277	40.279	0.00	0.00
ATOM	6362	HA	TYR	X	424	43.084	25.220	40.013	0.00	0.00
ATOM	6363	CB	TYR	X	424	42.902	27.033	38.965	0.00	0.00
ATOM	6364	HB2	TYR	X	424	43.552	26.740	38.141	0.00	0.00
ATOM	6365	HB3	TYR	X	424	41.865	26.941	38.644	0.00	0.00
ATOM	6366	CG	TYR	X	424	43.298	28.494	39.009	0.00	0.00
ATOM	6367	CD1	TYR	X	424	44.623	28.887	38.663	0.00	0.00
ATOM	6368	HD1	TYR	X	424	45.380	28.166	38.392	0.00	0.00
ATOM	6369	CE1	TYR	X	424	44.979	30.232	38.732	0.00	0.00
ATOM	6370	HE1	TYR	X	424	45.881	30.599	38.266	0.00	0.00
ATOM	6371	CZ	TYR	X	424	44.084	31.242	39.108	0.00	0.00
ATOM	6372	OH	TYR	X	424	44.458	32.523	39.271	0.00	0.00
ATOM	6373	HH	TYR	X	424	45.273	32.757	38.822	0.00	0.00
ATOM	6374	CE2	TYR	X	424	42.790	30.873	39.511	0.00	0.00
ATOM	6375	HE2	TYR	X	424	42.101	31.583	39.944	0.00	0.00
ATOM	6376	CD2	TYR	X	424	42.409	29.555	39.375	0.00	0.00
ATOM	6377	HD2	TYR	X	424	41.414	29.231	39.641	0.00	0.00
ATOM	6378	C	TYR	X	424	44.407	26.543	40.905	0.00	0.00
ATOM	6379	O	TYR	X	424	44.543	27.608	41.506	0.00	0.00
ATOM	6380	N	VAL	X	425	45.394	25.633	40.684	0.00	0.00
ATOM	6381	H	VAL	X	425	45.119	24.870	40.082	0.00	0.00
ATOM	6382	CA	VAL	X	425	46.840	25.923	40.822	0.00	0.00
ATOM	6383	HA	VAL	X	425	47.027	26.922	41.214	0.00	0.00
ATOM	6384	CB	VAL	X	425	47.538	24.951	41.820	0.00	0.00
ATOM	6385	HB	VAL	X	425	47.301	25.262	42.837	0.00	0.00
ATOM	6386	CG1	VAL	X	425	47.283	23.393	41.657	0.00	0.00
ATOM	6387	HG11	VAL	X	425	47.566	23.069	40.656	0.00	0.00
ATOM	6388	HG12	VAL	X	425	47.882	22.795	42.344	0.00	0.00
ATOM	6389	HG13	VAL	X	425	46.245	23.149	41.884	0.00	0.00
ATOM	6390	CG2	VAL	X	425	49.066	25.263	42.022	0.00	0.00
ATOM	6391	HG21	VAL	X	425	49.160	26.260	42.454	0.00	0.00
ATOM	6392	HG22	VAL	X	425	49.636	24.983	41.136	0.00	0.00
ATOM	6393	HG23	VAL	X	425	49.448	24.621	42.816	0.00	0.00
ATOM	6394	C	VAL	X	425	47.408	25.894	39.393	0.00	0.00
ATOM	6395	O	VAL	X	425	47.151	24.953	38.681	0.00	0.00
ATOM	6396	N	PHE	X	426	48.059	26.983	38.980	0.00	0.00
ATOM	6397	H	PHE	X	426	48.061	27.787	39.592	0.00	0.00
ATOM	6398	CA	PHE	X	426	48.581	27.210	37.600	0.00	0.00
ATOM	6399	HA	PHE	X	426	48.013	26.567	36.928	0.00	0.00
ATOM	6400	CB	PHE	X	426	48.267	28.702	37.185	0.00	0.00
ATOM	6401	HB2	PHE	X	426	47.214	28.844	36.939	0.00	0.00
ATOM	6402	HB3	PHE	X	426	48.569	29.360	37.999	0.00	0.00
ATOM	6403	CG	PHE	X	426	49.107	29.056	35.976	0.00	0.00
ATOM	6404	CD1	PHE	X	426	48.658	28.751	34.718	0.00	0.00
ATOM	6405	HD1	PHE	X	426	47.775	28.160	34.528	0.00	0.00
ATOM	6406	CE1	PHE	X	426	49.398	29.243	33.616	0.00	0.00
ATOM	6407	HE1	PHE	X	426	49.172	28.961	32.598	0.00	0.00
ATOM	6408	CZ	PHE	X	426	50.680	29.831	33.826	0.00	0.00
ATOM	6409	HZ	PHE	X	426	51.286	29.942	32.939	0.00	0.00
ATOM	6410	CE2	PHE	X	426	51.103	30.111	35.085	0.00	0.00

ATOM	6411	HE2	PHE	X	426	52.106	30.483	35.233	0.00	0.00
ATOM	6412	CD2	PHE	X	426	50.333	29.747	36.170	0.00	0.00
ATOM	6413	HD2	PHE	X	426	50.692	29.838	37.185	0.00	0.00
ATOM	6414	C	PHE	X	426	50.077	26.821	37.646	0.00	0.00
ATOM	6415	O	PHE	X	426	50.705	27.263	38.642	0.00	0.00
ATOM	6416	N	GLU	X	427	50.649	25.947	36.784	0.00	0.00
ATOM	6417	H	GLU	X	427	50.104	25.545	36.035	0.00	0.00
ATOM	6418	CA	GLU	X	427	51.887	25.285	37.057	0.00	0.00
ATOM	6419	HA	GLU	X	427	52.383	25.710	37.930	0.00	0.00
ATOM	6420	CB	GLU	X	427	51.724	23.801	37.218	0.00	0.00
ATOM	6421	HB2	GLU	X	427	51.389	23.383	36.269	0.00	0.00
ATOM	6422	HB3	GLU	X	427	52.713	23.381	37.406	0.00	0.00
ATOM	6423	CG	GLU	X	427	50.687	23.409	38.246	0.00	0.00
ATOM	6424	HG2	GLU	X	427	50.990	23.891	39.176	0.00	0.00
ATOM	6425	HG3	GLU	X	427	49.678	23.656	37.915	0.00	0.00
ATOM	6426	CD	GLU	X	427	50.691	21.923	38.574	0.00	0.00
ATOM	6427	OE1	GLU	X	427	50.201	21.665	39.712	0.00	0.00
ATOM	6428	OE2	GLU	X	427	51.214	21.079	37.787	0.00	0.00
ATOM	6429	C	GLU	X	427	52.890	25.497	35.839	0.00	0.00
ATOM	6430	O	GLU	X	427	53.986	24.971	35.921	0.00	0.00
ATOM	6431	N	HIE	X	428	52.485	26.024	34.637	0.00	0.00
ATOM	6432	H	HIE	X	428	51.527	26.332	34.549	0.00	0.00
ATOM	6433	CA	HIE	X	428	53.405	26.194	33.461	0.00	0.00
ATOM	6434	HA	HIE	X	428	54.019	25.307	33.300	0.00	0.00
ATOM	6435	CB	HIE	X	428	52.569	26.222	32.218	0.00	0.00
ATOM	6436	HB2	HIE	X	428	51.916	25.360	32.082	0.00	0.00
ATOM	6437	HB3	HIE	X	428	51.803	26.997	32.261	0.00	0.00
ATOM	6438	CG	HIE	X	428	53.492	26.472	31.050	0.00	0.00
ATOM	6439	ND1	HIE	X	428	54.621	25.696	30.733	0.00	0.00
ATOM	6440	CE1	HIE	X	428	55.039	26.207	29.542	0.00	0.00
ATOM	6441	HE1	HIE	X	428	55.835	25.829	28.919	0.00	0.00
ATOM	6442	NE2	HIE	X	428	54.283	27.229	29.189	0.00	0.00
ATOM	6443	HE2	HIE	X	428	54.333	27.797	28.355	0.00	0.00
ATOM	6444	CD2	HIE	X	428	53.305	27.384	30.058	0.00	0.00
ATOM	6445	HD2	HIE	X	428	52.507	28.102	29.940	0.00	0.00
ATOM	6446	C	HIE	X	428	54.271	27.474	33.473	0.00	0.00
ATOM	6447	O	HIE	X	428	53.868	28.613	33.580	0.00	0.00
ATOM	6448	N	ARG	X	429	55.557	27.293	33.208	0.00	0.00
ATOM	6449	H	ARG	X	429	55.828	26.345	32.987	0.00	0.00
ATOM	6450	CA	ARG	X	429	56.639	28.278	33.418	0.00	0.00
ATOM	6451	HA	ARG	X	429	56.210	29.153	33.905	0.00	0.00
ATOM	6452	CB	ARG	X	429	57.773	27.603	34.309	0.00	0.00
ATOM	6453	HB2	ARG	X	429	57.242	26.930	34.983	0.00	0.00
ATOM	6454	HB3	ARG	X	429	58.418	27.027	33.645	0.00	0.00
ATOM	6455	CG	ARG	X	429	58.392	28.781	35.056	0.00	0.00
ATOM	6456	HG2	ARG	X	429	58.506	29.601	34.348	0.00	0.00
ATOM	6457	HG3	ARG	X	429	57.626	29.178	35.722	0.00	0.00
ATOM	6458	CD	ARG	X	429	59.665	28.441	35.857	0.00	0.00
ATOM	6459	HD2	ARG	X	429	59.331	27.997	36.794	0.00	0.00
ATOM	6460	HD3	ARG	X	429	60.296	27.750	35.298	0.00	0.00
ATOM	6461	NE	ARG	X	429	60.500	29.594	36.084	0.00	0.00
ATOM	6462	HE	ARG	X	429	60.198	30.288	36.754	0.00	0.00
ATOM	6463	CZ	ARG	X	429	61.461	30.088	35.325	0.00	0.00
ATOM	6464	NH1	ARG	X	429	61.685	29.597	34.113	0.00	0.00
ATOM	6465	HH11	ARG	X	429	60.947	29.018	33.736	0.00	0.00
ATOM	6466	HH12	ARG	X	429	62.371	29.906	33.440	0.00	0.00
ATOM	6467	NH2	ARG	X	429	62.263	31.043	35.776	0.00	0.00
ATOM	6468	HH21	ARG	X	429	62.136	31.421	36.704	0.00	0.00
ATOM	6469	HH22	ARG	X	429	63.060	31.334	35.229	0.00	0.00
ATOM	6470	C	ARG	X	429	57.016	28.755	32.041	0.00	0.00
ATOM	6471	O	ARG	X	429	57.648	28.042	31.280	0.00	0.00
ATOM	6472	N	ALA	X	430	56.446	29.874	31.586	0.00	0.00
ATOM	6473	H	ALA	X	430	55.857	30.374	32.237	0.00	0.00
ATOM	6474	CA	ALA	X	430	56.396	30.297	30.150	0.00	0.00
ATOM	6475	HA	ALA	X	430	55.802	29.578	29.586	0.00	0.00
ATOM	6476	CB	ALA	X	430	55.636	31.645	30.194	0.00	0.00
ATOM	6477	HB1	ALA	X	430	55.454	32.166	29.254	0.00	0.00

ATOM	6478	HB2	ALA	X	430	56.145	32.371	30.828	0.00	0.00
ATOM	6479	HB3	ALA	X	430	54.659	31.347	30.575	0.00	0.00
ATOM	6480	C	ALA	X	430	57.759	30.367	29.446	0.00	0.00
ATOM	6481	O	ALA	X	430	58.765	30.571	30.085	0.00	0.00
ATOM	6482	N	SER	X	431	57.819	30.066	28.213	0.00	0.00
ATOM	6483	H	SER	X	431	57.068	29.519	27.816	0.00	0.00
ATOM	6484	CA	SER	X	431	59.060	30.077	27.446	0.00	0.00
ATOM	6485	HA	SER	X	431	59.842	29.595	28.033	0.00	0.00
ATOM	6486	CB	SER	X	431	59.048	29.257	26.211	0.00	0.00
ATOM	6487	HB2	SER	X	431	60.065	28.981	25.932	0.00	0.00
ATOM	6488	HB3	SER	X	431	58.671	28.258	26.433	0.00	0.00
ATOM	6489	OG	SER	X	431	58.214	29.723	25.206	0.00	0.00
ATOM	6490	HG	SER	X	431	57.345	29.361	25.394	0.00	0.00
ATOM	6491	C	SER	X	431	59.570	31.477	27.006	0.00	0.00
ATOM	6492	O	SER	X	431	60.583	31.612	26.273	0.00	0.00
ATOM	6493	N	THR	X	432	58.823	32.488	27.477	0.00	0.00
ATOM	6494	H	THR	X	432	57.958	32.290	27.960	0.00	0.00
ATOM	6495	CA	THR	X	432	59.083	33.914	27.451	0.00	0.00
ATOM	6496	HA	THR	X	432	59.903	34.154	26.774	0.00	0.00
ATOM	6497	CB	THR	X	432	57.918	34.693	26.981	0.00	0.00
ATOM	6498	HB	THR	X	432	58.066	35.767	27.096	0.00	0.00
ATOM	6499	CG2	THR	X	432	57.515	34.479	25.433	0.00	0.00
ATOM	6500	HG21	THR	X	432	56.804	35.284	25.246	0.00	0.00
ATOM	6501	HG22	THR	X	432	57.052	33.508	25.261	0.00	0.00
ATOM	6502	HG23	THR	X	432	58.456	34.596	24.894	0.00	0.00
ATOM	6503	OG1	THR	X	432	56.726	34.405	27.676	0.00	0.00
ATOM	6504	HG1	THR	X	432	56.112	35.098	27.422	0.00	0.00
ATOM	6505	C	THR	X	432	59.471	34.428	28.891	0.00	0.00
ATOM	6506	O	THR	X	432	59.805	35.627	28.980	0.00	0.00
ATOM	6507	N	LEU	X	433	59.340	33.627	29.961	0.00	0.00
ATOM	6508	H	LEU	X	433	59.163	32.642	29.821	0.00	0.00
ATOM	6509	CA	LEU	X	433	59.403	34.143	31.337	0.00	0.00
ATOM	6510	HA	LEU	X	433	58.875	35.086	31.474	0.00	0.00
ATOM	6511	CB	LEU	X	433	58.914	33.002	32.307	0.00	0.00
ATOM	6512	HB2	LEU	X	433	58.046	32.504	31.874	0.00	0.00
ATOM	6513	HB3	LEU	X	433	59.764	32.329	32.411	0.00	0.00
ATOM	6514	CG	LEU	X	433	58.635	33.763	33.697	0.00	0.00
ATOM	6515	HG	LEU	X	433	59.316	34.614	33.723	0.00	0.00
ATOM	6516	CD1	LEU	X	433	57.149	34.312	33.632	0.00	0.00
ATOM	6517	HD11	LEU	X	433	57.032	35.052	32.841	0.00	0.00
ATOM	6518	HD12	LEU	X	433	56.937	34.685	34.634	0.00	0.00
ATOM	6519	HD13	LEU	X	433	56.410	33.565	33.341	0.00	0.00
ATOM	6520	CD2	LEU	X	433	58.874	32.861	34.915	0.00	0.00
ATOM	6521	HD21	LEU	X	433	59.941	32.795	35.127	0.00	0.00
ATOM	6522	HD22	LEU	X	433	58.376	33.287	35.786	0.00	0.00
ATOM	6523	HD23	LEU	X	433	58.682	31.800	34.757	0.00	0.00
ATOM	6524	C	LEU	X	433	60.839	34.667	31.694	0.00	0.00
ATOM	6525	O	LEU	X	433	61.793	33.895	31.594	0.00	0.00
ATOM	6526	N	SER	X	434	60.933	36.017	31.888	0.00	0.00
ATOM	6527	H	SER	X	434	60.079	36.543	31.766	0.00	0.00
ATOM	6528	CA	SER	X	434	62.220	36.636	32.059	0.00	0.00
ATOM	6529	HA	SER	X	434	62.942	36.288	31.320	0.00	0.00
ATOM	6530	CB	SER	X	434	62.043	38.084	31.754	0.00	0.00
ATOM	6531	HB2	SER	X	434	61.372	38.551	32.476	0.00	0.00
ATOM	6532	HB3	SER	X	434	63.041	38.523	31.738	0.00	0.00
ATOM	6533	OG	SER	X	434	61.659	38.309	30.396	0.00	0.00
ATOM	6534	HG	SER	X	434	62.435	38.224	29.838	0.00	0.00
ATOM	6535	C	SER	X	434	62.828	36.496	33.424	0.00	0.00
ATOM	6536	O	SER	X	434	63.996	36.557	33.647	0.00	0.00
ATOM	6537	N	TRP	X	435	62.017	36.122	34.410	0.00	0.00
ATOM	6538	H	TRP	X	435	61.071	35.866	34.169	0.00	0.00
ATOM	6539	CA	TRP	X	435	62.513	35.994	35.805	0.00	0.00
ATOM	6540	HA	TRP	X	435	63.077	36.878	36.102	0.00	0.00
ATOM	6541	CB	TRP	X	435	61.271	35.835	36.673	0.00	0.00
ATOM	6542	HB2	TRP	X	435	60.698	35.080	36.135	0.00	0.00
ATOM	6543	HB3	TRP	X	435	61.521	35.592	37.706	0.00	0.00
ATOM	6544	CG	TRP	X	435	60.511	37.104	36.747	0.00	0.00

ATOM	6545	CD1	TRP	X	435	59.363	37.464	36.104	0.00	0.00
ATOM	6546	HD1	TRP	X	435	58.869	36.888	35.336	0.00	0.00
ATOM	6547	NE1	TRP	X	435	58.989	38.732	36.542	0.00	0.00
ATOM	6548	HE1	TRP	X	435	58.267	39.256	36.070	0.00	0.00
ATOM	6549	CE2	TRP	X	435	59.968	39.278	37.379	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	60.017	40.557	37.993	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	59.150	41.193	37.892	0.00	0.00
ATOM	6552	CH2	TRP	X	435	61.087	40.840	38.909	0.00	0.00
ATOM	6553	HH2	TRP	X	435	61.087	41.699	39.564	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	62.133	39.879	39.034	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	62.960	40.040	39.710	0.00	0.00
ATOM	6556	CE3	TRP	X	435	62.054	38.593	38.396	0.00	0.00
ATOM	6557	HE3	TRP	X	435	62.884	37.927	38.579	0.00	0.00
ATOM	6558	CD2	TRP	X	435	60.964	38.259	37.554	0.00	0.00
ATOM	6559	C	TRP	X	435	63.395	34.666	35.991	0.00	0.00
ATOM	6560	O	TRP	X	435	63.303	33.702	35.231	0.00	0.00
ATOM	6561	N	PRO	X	436	64.271	34.630	37.052	0.00	0.00
ATOM	6562	CD	PRO	X	436	64.353	35.623	38.078	0.00	0.00
ATOM	6563	HD2	PRO	X	436	63.426	35.727	38.643	0.00	0.00
ATOM	6564	HD3	PRO	X	436	64.633	36.570	37.618	0.00	0.00
ATOM	6565	CG	PRO	X	436	65.507	35.202	39.019	0.00	0.00
ATOM	6566	HG2	PRO	X	436	64.967	34.828	39.889	0.00	0.00
ATOM	6567	HG3	PRO	X	436	66.031	36.080	39.396	0.00	0.00
ATOM	6568	CB	PRO	X	436	66.352	34.186	38.220	0.00	0.00
ATOM	6569	HB2	PRO	X	436	66.692	33.404	38.899	0.00	0.00
ATOM	6570	HB3	PRO	X	436	67.136	34.761	37.728	0.00	0.00
ATOM	6571	CA	PRO	X	436	65.336	33.632	37.181	0.00	0.00
ATOM	6572	HA	PRO	X	436	65.777	33.517	36.191	0.00	0.00
ATOM	6573	C	PRO	X	436	64.693	32.325	37.661	0.00	0.00
ATOM	6574	O	PRO	X	436	63.545	32.205	38.154	0.00	0.00
ATOM	6575	N	LEU	X	437	65.498	31.353	37.489	0.00	0.00
ATOM	6576	H	LEU	X	437	66.415	31.601	37.145	0.00	0.00
ATOM	6577	CA	LEU	X	437	65.142	29.886	37.558	0.00	0.00
ATOM	6578	HA	LEU	X	437	64.384	29.588	36.834	0.00	0.00
ATOM	6579	CB	LEU	X	437	66.381	29.044	37.239	0.00	0.00
ATOM	6580	HB2	LEU	X	437	66.636	29.392	36.238	0.00	0.00
ATOM	6581	HB3	LEU	X	437	67.170	29.214	37.972	0.00	0.00
ATOM	6582	CG	LEU	X	437	66.202	27.548	37.118	0.00	0.00
ATOM	6583	HG	LEU	X	437	65.885	27.039	38.028	0.00	0.00
ATOM	6584	CD1	LEU	X	437	65.192	27.074	36.058	0.00	0.00
ATOM	6585	HD11	LEU	X	437	64.216	27.555	36.130	0.00	0.00
ATOM	6586	HD12	LEU	X	437	65.122	25.991	35.962	0.00	0.00
ATOM	6587	HD13	LEU	X	437	65.642	27.390	35.117	0.00	0.00
ATOM	6588	CD2	LEU	X	437	67.533	26.835	36.800	0.00	0.00
ATOM	6589	HD21	LEU	X	437	67.972	26.919	35.806	0.00	0.00
ATOM	6590	HD22	LEU	X	437	68.274	27.212	37.505	0.00	0.00
ATOM	6591	HD23	LEU	X	437	67.301	25.771	36.860	0.00	0.00
ATOM	6592	C	LEU	X	437	64.627	29.470	38.914	0.00	0.00
ATOM	6593	O	LEU	X	437	63.819	28.551	38.984	0.00	0.00
ATOM	6594	N	TRP	X	438	65.098	30.055	40.050	0.00	0.00
ATOM	6595	H	TRP	X	438	65.977	30.543	39.954	0.00	0.00
ATOM	6596	CA	TRP	X	438	64.796	29.650	41.438	0.00	0.00
ATOM	6597	HA	TRP	X	438	64.735	28.561	41.451	0.00	0.00
ATOM	6598	CB	TRP	X	438	66.085	30.064	42.176	0.00	0.00
ATOM	6599	HB2	TRP	X	438	66.045	29.833	43.241	0.00	0.00
ATOM	6600	HB3	TRP	X	438	66.865	29.482	41.685	0.00	0.00
ATOM	6601	CG	TRP	X	438	66.434	31.486	42.124	0.00	0.00
ATOM	6602	CD1	TRP	X	438	67.563	31.998	41.551	0.00	0.00
ATOM	6603	HD1	TRP	X	438	68.375	31.517	41.026	0.00	0.00
ATOM	6604	NE1	TRP	X	438	67.593	33.365	41.854	0.00	0.00
ATOM	6605	HE1	TRP	X	438	68.407	33.925	41.642	0.00	0.00
ATOM	6606	CE2	TRP	X	438	66.462	33.823	42.528	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	65.924	35.067	42.768	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	66.505	35.934	42.490	0.00	0.00
ATOM	6609	CH2	TRP	X	438	64.692	35.249	43.397	0.00	0.00
ATOM	6610	HH2	TRP	X	438	64.328	36.255	43.546	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	64.011	34.088	43.802	0.00	0.00

ATOM	6612	HZ3	TRP	X	438	63.039	34.149	44.268	0.00	0.00
ATOM	6613	CE3	TRP	X	438	64.538	32.823	43.485	0.00	0.00
ATOM	6614	HE3	TRP	X	438	63.948	31.970	43.788	0.00	0.00
ATOM	6615	CD2	TRP	X	438	65.716	32.649	42.721	0.00	0.00
ATOM	6616	C	TRP	X	438	63.452	30.130	41.999	0.00	0.00
ATOM	6617	O	TRP	X	438	62.970	29.612	42.995	0.00	0.00
ATOM	6618	N	MET	X	439	62.850	31.076	41.270	0.00	0.00
ATOM	6619	H	MET	X	439	63.298	31.234	40.378	0.00	0.00
ATOM	6620	CA	MET	X	439	61.502	31.669	41.513	0.00	0.00
ATOM	6621	HA	MET	X	439	61.335	31.967	42.548	0.00	0.00
ATOM	6622	CB	MET	X	439	61.424	32.960	40.691	0.00	0.00
ATOM	6623	HB2	MET	X	439	62.307	33.569	40.886	0.00	0.00
ATOM	6624	HB3	MET	X	439	61.766	32.740	39.680	0.00	0.00
ATOM	6625	CG	MET	X	439	60.195	33.786	40.782	0.00	0.00
ATOM	6626	HG2	MET	X	439	59.420	33.244	40.239	0.00	0.00
ATOM	6627	HG3	MET	X	439	59.755	33.744	41.778	0.00	0.00
ATOM	6628	SD	MET	X	439	60.246	35.435	40.055	0.00	0.00
ATOM	6629	CE	MET	X	439	61.193	36.334	41.231	0.00	0.00
ATOM	6630	HE1	MET	X	439	62.233	36.382	40.908	0.00	0.00
ATOM	6631	HE2	MET	X	439	60.795	37.349	41.256	0.00	0.00
ATOM	6632	HE3	MET	X	439	61.041	35.800	42.169	0.00	0.00
ATOM	6633	C	MET	X	439	60.351	30.759	41.115	0.00	0.00
ATOM	6634	O	MET	X	439	59.250	31.000	41.692	0.00	0.00
ATOM	6635	N	GLY	X	440	60.564	29.701	40.288	0.00	0.00
ATOM	6636	H	GLY	X	440	61.534	29.479	40.116	0.00	0.00
ATOM	6637	CA	GLY	X	440	59.469	28.888	39.717	0.00	0.00
ATOM	6638	HA2	GLY	X	440	59.904	28.133	39.062	0.00	0.00
ATOM	6639	HA3	GLY	X	440	58.970	28.470	40.591	0.00	0.00
ATOM	6640	C	GLY	X	440	58.395	29.667	38.927	0.00	0.00
ATOM	6641	O	GLY	X	440	58.839	30.629	38.275	0.00	0.00
ATOM	6642	N	VAL	X	441	57.122	29.332	39.017	0.00	0.00
ATOM	6643	H	VAL	X	441	56.926	28.469	39.503	0.00	0.00
ATOM	6644	CA	VAL	X	441	56.031	30.094	38.336	0.00	0.00
ATOM	6645	HA	VAL	X	441	56.287	30.480	37.350	0.00	0.00
ATOM	6646	CB	VAL	X	441	54.742	29.262	38.185	0.00	0.00
ATOM	6647	HB	VAL	X	441	54.373	29.038	39.186	0.00	0.00
ATOM	6648	CG1	VAL	X	441	53.616	29.949	37.393	0.00	0.00
ATOM	6649	HG11	VAL	X	441	54.003	30.173	36.399	0.00	0.00
ATOM	6650	HG12	VAL	X	441	52.894	29.140	37.287	0.00	0.00
ATOM	6651	HG13	VAL	X	441	53.284	30.892	37.828	0.00	0.00
ATOM	6652	CG2	VAL	X	441	55.123	27.982	37.481	0.00	0.00
ATOM	6653	HG21	VAL	X	441	54.242	27.390	37.235	0.00	0.00
ATOM	6654	HG22	VAL	X	441	55.798	27.376	38.086	0.00	0.00
ATOM	6655	HG23	VAL	X	441	55.467	28.214	36.473	0.00	0.00
ATOM	6656	C	VAL	X	441	55.684	31.236	39.264	0.00	0.00
ATOM	6657	O	VAL	X	441	55.172	30.976	40.349	0.00	0.00
ATOM	6658	N	PRO	X	442	55.557	32.487	38.875	0.00	0.00
ATOM	6659	CD	PRO	X	442	56.081	32.964	37.579	0.00	0.00
ATOM	6660	HD2	PRO	X	442	55.411	32.930	36.720	0.00	0.00
ATOM	6661	HD3	PRO	X	442	57.050	32.480	37.459	0.00	0.00
ATOM	6662	CG	PRO	X	442	56.371	34.472	37.755	0.00	0.00
ATOM	6663	HG2	PRO	X	442	55.615	35.054	37.229	0.00	0.00
ATOM	6664	HB3	PRO	X	442	57.339	34.767	37.350	0.00	0.00
ATOM	6665	CB	PRO	X	442	56.406	34.648	39.255	0.00	0.00
ATOM	6666	HB2	PRO	X	442	56.090	35.668	39.472	0.00	0.00
ATOM	6667	HB3	PRO	X	442	57.394	34.531	39.700	0.00	0.00
ATOM	6668	CA	PRO	X	442	55.388	33.593	39.798	0.00	0.00
ATOM	6669	HA	PRO	X	442	55.603	33.256	40.812	0.00	0.00
ATOM	6670	C	PRO	X	442	54.066	34.328	39.755	0.00	0.00
ATOM	6671	O	PRO	X	442	53.355	34.294	38.756	0.00	0.00
ATOM	6672	N	HIP	X	443	53.660	34.957	40.866	0.00	0.00
ATOM	6673	H	HIP	X	443	54.243	34.867	41.686	0.00	0.00
ATOM	6674	CA	HIP	X	443	52.435	35.689	41.109	0.00	0.00
ATOM	6675	HA	HIP	X	443	51.558	35.046	41.174	0.00	0.00
ATOM	6676	CB	HIP	X	443	52.689	36.350	42.505	0.00	0.00
ATOM	6677	HB2	HIP	X	443	52.590	35.591	43.281	0.00	0.00
ATOM	6678	HB3	HIP	X	443	53.616	36.920	42.440	0.00	0.00

ATOM	6679	CG	HIP	X	443	51.652	37.393	42.887	0.00	0.00
ATOM	6680	ND1	HIP	X	443	50.358	37.161	43.034	0.00	0.00
ATOM	6681	HD1	HIP	X	443	49.951	36.238	42.984	0.00	0.00
ATOM	6682	CE1	HIP	X	443	49.784	38.364	43.436	0.00	0.00
ATOM	6683	HE1	HIP	X	443	48.728	38.490	43.626	0.00	0.00
ATOM	6684	NE2	HIP	X	443	50.677	39.332	43.310	0.00	0.00
ATOM	6685	HE2	HIP	X	443	50.645	40.332	43.450	0.00	0.00
ATOM	6686	CD2	HIP	X	443	51.891	38.728	43.071	0.00	0.00
ATOM	6687	HD2	HIP	X	443	52.808	39.273	42.899	0.00	0.00
ATOM	6688	C	HIP	X	443	52.144	36.720	39.984	0.00	0.00
ATOM	6689	O	HIP	X	443	52.805	37.763	39.962	0.00	0.00
ATOM	6690	N	GLY	X	444	51.078	36.497	39.248	0.00	0.00
ATOM	6691	H	GLY	X	444	50.632	35.603	39.395	0.00	0.00
ATOM	6692	CA	GLY	X	444	50.412	37.390	38.293	0.00	0.00
ATOM	6693	HA2	GLY	X	444	49.348	37.175	38.201	0.00	0.00
ATOM	6694	HA3	GLY	X	444	50.492	38.447	38.549	0.00	0.00
ATOM	6695	C	GLY	X	444	50.959	37.199	36.878	0.00	0.00
ATOM	6696	O	GLY	X	444	51.112	38.191	36.143	0.00	0.00
ATOM	6697	N	TYR	X	445	51.263	35.941	36.454	0.00	0.00
ATOM	6698	H	TYR	X	445	51.148	35.262	37.193	0.00	0.00
ATOM	6699	CA	TYR	X	445	51.819	35.637	35.161	0.00	0.00
ATOM	6700	HA	TYR	X	445	51.909	36.507	34.510	0.00	0.00
ATOM	6701	CB	TYR	X	445	53.280	35.252	35.335	0.00	0.00
ATOM	6702	HB2	TYR	X	445	53.260	34.768	36.312	0.00	0.00
ATOM	6703	HB3	TYR	X	445	53.635	34.612	34.527	0.00	0.00
ATOM	6704	CG	TYR	X	445	54.195	36.478	35.346	0.00	0.00
ATOM	6705	CD1	TYR	X	445	54.682	37.033	34.120	0.00	0.00
ATOM	6706	HD1	TYR	X	445	54.541	36.500	33.191	0.00	0.00
ATOM	6707	CE1	TYR	X	445	55.413	38.238	34.086	0.00	0.00
ATOM	6708	HE1	TYR	X	445	55.994	38.496	33.213	0.00	0.00
ATOM	6709	CZ	TYR	X	445	55.626	38.982	35.285	0.00	0.00
ATOM	6710	OH	TYR	X	445	56.335	40.119	35.390	0.00	0.00
ATOM	6711	HH	TYR	X	445	56.457	40.567	34.550	0.00	0.00
ATOM	6712	CE2	TYR	X	445	55.216	38.395	36.494	0.00	0.00
ATOM	6713	HE2	TYR	X	445	55.331	38.901	37.442	0.00	0.00
ATOM	6714	CD2	TYR	X	445	54.460	37.194	36.518	0.00	0.00
ATOM	6715	HD2	TYR	X	445	54.029	36.829	37.439	0.00	0.00
ATOM	6716	C	TYR	X	445	51.020	34.516	34.419	0.00	0.00
ATOM	6717	O	TYR	X	445	51.393	34.079	33.371	0.00	0.00
ATOM	6718	N	GLU	X	446	49.810	34.155	34.854	0.00	0.00
ATOM	6719	H	GLU	X	446	49.580	34.400	35.806	0.00	0.00
ATOM	6720	CA	GLU	X	446	48.898	33.265	34.134	0.00	0.00
ATOM	6721	HA	GLU	X	446	49.568	32.635	33.549	0.00	0.00
ATOM	6722	CB	GLU	X	446	48.111	32.364	35.023	0.00	0.00
ATOM	6723	HB2	GLU	X	446	47.946	31.442	34.467	0.00	0.00
ATOM	6724	HB3	GLU	X	446	48.801	31.969	35.769	0.00	0.00
ATOM	6725	CG	GLU	X	446	46.880	32.973	35.719	0.00	0.00
ATOM	6726	HG2	GLU	X	446	46.240	33.553	35.053	0.00	0.00
ATOM	6727	HG3	GLU	X	446	46.241	32.189	36.125	0.00	0.00
ATOM	6728	CD	GLU	X	446	47.126	33.932	36.891	0.00	0.00
ATOM	6729	OE1	GLU	X	446	48.026	34.752	36.756	0.00	0.00
ATOM	6730	OE2	GLU	X	446	46.434	33.851	37.928	0.00	0.00
ATOM	6731	C	GLU	X	446	48.016	34.054	33.252	0.00	0.00
ATOM	6732	O	GLU	X	446	47.638	33.607	32.187	0.00	0.00
ATOM	6733	N	ILE	X	447	47.797	35.351	33.574	0.00	0.00
ATOM	6734	H	ILE	X	447	47.907	35.547	34.559	0.00	0.00
ATOM	6735	CA	ILE	X	447	46.977	36.326	32.796	0.00	0.00
ATOM	6736	HA	ILE	X	447	45.948	35.975	32.861	0.00	0.00
ATOM	6737	CB	ILE	X	447	46.963	37.673	33.462	0.00	0.00
ATOM	6738	HB	ILE	X	447	46.282	38.307	32.894	0.00	0.00
ATOM	6739	CG2	ILE	X	447	46.203	37.549	34.799	0.00	0.00
ATOM	6740	HG21	ILE	X	447	45.384	36.839	34.685	0.00	0.00
ATOM	6741	HG22	ILE	X	447	45.829	38.489	35.204	0.00	0.00
ATOM	6742	HG23	ILE	X	447	46.895	37.133	35.531	0.00	0.00
ATOM	6743	CG1	ILE	X	447	48.319	38.373	33.400	0.00	0.00
ATOM	6744	HG12	ILE	X	447	49.066	37.638	33.700	0.00	0.00
ATOM	6745	HG13	ILE	X	447	48.515	38.541	32.341	0.00	0.00

ATOM	6746	CD1	ILE	X	447	48.449	39.750	34.020	0.00	0.00
ATOM	6747	HD11	ILE	X	447	48.321	39.641	35.097	0.00	0.00
ATOM	6748	HD12	ILE	X	447	47.607	40.283	33.576	0.00	0.00
ATOM	6749	HD13	ILE	X	447	49.411	40.217	33.808	0.00	0.00
ATOM	6750	C	ILE	X	447	47.266	36.271	31.272	0.00	0.00
ATOM	6751	O	ILE	X	447	46.411	36.380	30.384	0.00	0.00
ATOM	6752	N	GLU	X	448	48.578	36.017	30.941	0.00	0.00
ATOM	6753	H	GLU	X	448	49.195	35.994	31.740	0.00	0.00
ATOM	6754	CA	GLU	X	448	49.190	35.996	29.589	0.00	0.00
ATOM	6755	HA	GLU	X	448	49.076	36.920	29.022	0.00	0.00
ATOM	6756	CB	GLU	X	448	50.731	35.665	29.661	0.00	0.00
ATOM	6757	HB2	GLU	X	448	50.912	34.762	30.244	0.00	0.00
ATOM	6758	HB3	GLU	X	448	51.129	35.526	28.656	0.00	0.00
ATOM	6759	CG	GLU	X	448	51.535	36.727	30.388	0.00	0.00
ATOM	6760	HG2	GLU	X	448	51.086	37.699	30.186	0.00	0.00
ATOM	6761	HG3	GLU	X	448	51.326	36.539	31.441	0.00	0.00
ATOM	6762	CD	GLU	X	448	52.983	36.615	30.093	0.00	0.00
ATOM	6763	OE1	GLU	X	448	53.580	37.649	29.645	0.00	0.00
ATOM	6764	OE2	GLU	X	448	53.578	35.485	30.185	0.00	0.00
ATOM	6765	C	GLU	X	448	48.416	35.021	28.684	0.00	0.00
ATOM	6766	O	GLU	X	448	48.155	35.210	27.515	0.00	0.00
ATOM	6767	N	PHE	X	449	48.012	33.848	29.220	0.00	0.00
ATOM	6768	H	PHE	X	449	48.163	33.763	30.215	0.00	0.00
ATOM	6769	CA	PHE	X	449	47.425	32.679	28.628	0.00	0.00
ATOM	6770	HA	PHE	X	449	47.796	32.555	27.611	0.00	0.00
ATOM	6771	CB	PHE	X	449	47.730	31.425	29.488	0.00	0.00
ATOM	6772	HB2	PHE	X	449	47.512	31.757	30.503	0.00	0.00
ATOM	6773	HB3	PHE	X	449	46.995	30.655	29.249	0.00	0.00
ATOM	6774	CG	PHE	X	449	49.126	30.890	29.294	0.00	0.00
ATOM	6775	CD1	PHE	X	449	50.122	31.251	30.231	0.00	0.00
ATOM	6776	HD1	PHE	X	449	49.900	31.820	31.121	0.00	0.00
ATOM	6777	CE1	PHE	X	449	51.462	30.991	29.965	0.00	0.00
ATOM	6778	HE1	PHE	X	449	52.176	31.532	30.567	0.00	0.00
ATOM	6779	CZ	PHE	X	449	51.816	30.380	28.783	0.00	0.00
ATOM	6780	HZ	PHE	X	449	52.864	30.178	28.620	0.00	0.00
ATOM	6781	CE2	PHE	X	449	50.783	29.866	28.009	0.00	0.00
ATOM	6782	HE2	PHE	X	449	51.070	29.385	27.086	0.00	0.00
ATOM	6783	CD2	PHE	X	449	49.434	30.147	28.123	0.00	0.00
ATOM	6784	HD2	PHE	X	449	48.664	29.855	27.425	0.00	0.00
ATOM	6785	C	PHE	X	449	45.851	32.894	28.495	0.00	0.00
ATOM	6786	O	PHE	X	449	45.190	32.229	27.666	0.00	0.00
ATOM	6787	N	ILE	X	450	45.304	33.828	29.235	0.00	0.00
ATOM	6788	H	ILE	X	450	45.978	34.428	29.689	0.00	0.00
ATOM	6789	CA	ILE	X	450	43.860	34.176	29.273	0.00	0.00
ATOM	6790	HA	ILE	X	450	43.309	33.351	28.821	0.00	0.00
ATOM	6791	CB	ILE	X	450	43.402	34.433	30.738	0.00	0.00
ATOM	6792	HB	ILE	X	450	44.095	35.200	31.083	0.00	0.00
ATOM	6793	CG2	ILE	X	450	41.970	35.017	30.971	0.00	0.00
ATOM	6794	HG21	ILE	X	450	41.841	35.924	30.382	0.00	0.00
ATOM	6795	HG22	ILE	X	450	41.864	35.229	32.035	0.00	0.00
ATOM	6796	HG23	ILE	X	450	41.244	34.307	30.575	0.00	0.00
ATOM	6797	CG1	ILE	X	450	43.476	33.117	31.599	0.00	0.00
ATOM	6798	HG12	ILE	X	450	42.650	32.418	31.467	0.00	0.00
ATOM	6799	HG13	ILE	X	450	44.296	32.480	31.269	0.00	0.00
ATOM	6800	CD1	ILE	X	450	43.791	33.378	33.034	0.00	0.00
ATOM	6801	HD11	ILE	X	450	42.870	33.701	33.518	0.00	0.00
ATOM	6802	HD12	ILE	X	450	44.734	33.910	33.160	0.00	0.00
ATOM	6803	HD13	ILE	X	450	43.955	32.427	33.541	0.00	0.00
ATOM	6804	C	ILE	X	450	43.511	35.354	28.367	0.00	0.00
ATOM	6805	O	ILE	X	450	42.518	35.319	27.671	0.00	0.00
ATOM	6806	N	PHE	X	451	44.457	36.280	28.255	0.00	0.00
ATOM	6807	H	PHE	X	451	45.311	36.197	28.788	0.00	0.00
ATOM	6808	CA	PHE	X	451	44.460	37.372	27.288	0.00	0.00
ATOM	6809	HA	PHE	X	451	43.437	37.626	27.010	0.00	0.00
ATOM	6810	CB	PHE	X	451	45.263	38.596	27.931	0.00	0.00
ATOM	6811	HB2	PHE	X	451	46.183	38.122	28.273	0.00	0.00
ATOM	6812	HB3	PHE	X	451	45.419	39.303	27.117	0.00	0.00

ATOM	6813	CG	PHE	X	451	44.495	39.348	28.976	0.00	0.00
ATOM	6814	CD1	PHE	X	451	45.006	39.514	30.228	0.00	0.00
ATOM	6815	HD1	PHE	X	451	45.907	38.953	30.428	0.00	0.00
ATOM	6816	CE1	PHE	X	451	44.399	40.198	31.257	0.00	0.00
ATOM	6817	HE1	PHE	X	451	44.816	40.279	32.249	0.00	0.00
ATOM	6818	CZ	PHE	X	451	43.189	40.771	30.999	0.00	0.00
ATOM	6819	HZ	PHE	X	451	42.577	41.178	31.790	0.00	0.00
ATOM	6820	CE2	PHE	X	451	42.631	40.722	29.708	0.00	0.00
ATOM	6821	HE2	PHE	X	451	41.671	41.182	29.529	0.00	0.00
ATOM	6822	CD2	PHE	X	451	43.291	39.980	28.692	0.00	0.00
ATOM	6823	HD2	PHE	X	451	42.932	39.927	27.675	0.00	0.00
ATOM	6824	C	PHE	X	451	45.176	36.857	25.968	0.00	0.00
ATOM	6825	O	PHE	X	451	45.063	37.572	24.937	0.00	0.00
ATOM	6826	N	GLY	X	452	45.707	35.592	25.827	0.00	0.00
ATOM	6827	H	GLY	X	452	45.878	35.062	26.669	0.00	0.00
ATOM	6828	CA	GLY	X	452	45.884	34.957	24.552	0.00	0.00
ATOM	6829	HA2	GLY	X	452	46.060	33.887	24.661	0.00	0.00
ATOM	6830	HA3	GLY	X	452	44.985	35.162	23.972	0.00	0.00
ATOM	6831	C	GLY	X	452	47.144	35.465	23.887	0.00	0.00
ATOM	6832	O	GLY	X	452	47.408	35.273	22.686	0.00	0.00
ATOM	6833	N	ILE	X	453	48.045	35.954	24.699	0.00	0.00
ATOM	6834	H	ILE	X	453	47.916	35.890	25.698	0.00	0.00
ATOM	6835	CA	ILE	X	453	49.313	36.616	24.329	0.00	0.00
ATOM	6836	HA	ILE	X	453	49.070	37.425	23.640	0.00	0.00
ATOM	6837	CB	ILE	X	453	50.031	37.280	25.556	0.00	0.00
ATOM	6838	HB	ILE	X	453	50.342	36.628	26.372	0.00	0.00
ATOM	6839	CG2	ILE	X	453	51.206	38.110	25.116	0.00	0.00
ATOM	6840	HG21	ILE	X	453	52.041	37.454	24.871	0.00	0.00
ATOM	6841	HG22	ILE	X	453	51.478	38.724	25.975	0.00	0.00
ATOM	6842	HG23	ILE	X	453	50.942	38.837	24.348	0.00	0.00
ATOM	6843	CG1	ILE	X	453	49.041	38.182	26.413	0.00	0.00
ATOM	6844	HG12	ILE	X	453	48.236	37.599	26.861	0.00	0.00
ATOM	6845	HG13	ILE	X	453	49.605	38.628	27.232	0.00	0.00
ATOM	6846	CD1	ILE	X	453	48.435	39.347	25.588	0.00	0.00
ATOM	6847	HD11	ILE	X	453	49.273	39.925	25.199	0.00	0.00
ATOM	6848	HD12	ILE	X	453	47.759	39.876	26.259	0.00	0.00
ATOM	6849	HD13	ILE	X	453	47.908	38.969	24.712	0.00	0.00
ATOM	6850	C	ILE	X	453	50.327	35.728	23.504	0.00	0.00
ATOM	6851	O	ILE	X	453	51.098	36.280	22.743	0.00	0.00
ATOM	6852	N	PRO	X	454	50.318	34.431	23.690	0.00	0.00
ATOM	6853	CD	PRO	X	454	49.744	33.688	24.801	0.00	0.00
ATOM	6854	HD2	PRO	X	454	48.686	33.473	24.653	0.00	0.00
ATOM	6855	HD3	PRO	X	454	50.030	34.201	25.719	0.00	0.00
ATOM	6856	CG	PRO	X	454	50.571	32.325	24.769	0.00	0.00
ATOM	6857	HG2	PRO	X	454	49.962	31.532	25.204	0.00	0.00
ATOM	6858	HG3	PRO	X	454	51.568	32.398	25.202	0.00	0.00
ATOM	6859	CB	PRO	X	454	50.773	32.064	23.295	0.00	0.00
ATOM	6860	HB2	PRO	X	454	49.829	31.769	22.837	0.00	0.00
ATOM	6861	HB3	PRO	X	454	51.575	31.359	23.076	0.00	0.00
ATOM	6862	CA	PRO	X	454	50.972	33.480	22.756	0.00	0.00
ATOM	6863	HA	PRO	X	454	51.997	33.845	22.817	0.00	0.00
ATOM	6864	C	PRO	X	454	50.634	33.687	21.324	0.00	0.00
ATOM	6865	O	PRO	X	454	51.470	33.383	20.513	0.00	0.00
ATOM	6866	N	LEU	X	455	49.399	34.002	20.917	0.00	0.00
ATOM	6867	H	LEU	X	455	48.851	34.478	21.620	0.00	0.00
ATOM	6868	CA	LEU	X	455	49.018	34.079	19.536	0.00	0.00
ATOM	6869	HA	LEU	X	455	49.409	33.155	19.109	0.00	0.00
ATOM	6870	CB	LEU	X	455	47.477	34.144	19.526	0.00	0.00
ATOM	6871	HB2	LEU	X	455	47.194	35.182	19.704	0.00	0.00
ATOM	6872	HB3	LEU	X	455	47.179	34.113	18.478	0.00	0.00
ATOM	6873	CG	LEU	X	455	46.727	33.060	20.301	0.00	0.00
ATOM	6874	HG	LEU	X	455	46.774	33.265	21.371	0.00	0.00
ATOM	6875	CD1	LEU	X	455	45.262	32.990	19.824	0.00	0.00
ATOM	6876	HD11	LEU	X	455	44.840	33.889	19.375	0.00	0.00
ATOM	6877	HD12	LEU	X	455	44.536	32.705	20.585	0.00	0.00
ATOM	6878	HD13	LEU	X	455	45.301	32.332	18.956	0.00	0.00
ATOM	6879	CD2	LEU	X	455	47.227	31.602	19.991	0.00	0.00

ATOM	6880	HD21	LEU	X	455	48.255	31.571	20.354	0.00	0.00
ATOM	6881	HD22	LEU	X	455	46.625	30.792	20.402	0.00	0.00
ATOM	6882	HD23	LEU	X	455	47.274	31.414	18.918	0.00	0.00
ATOM	6883	C	LEU	X	455	49.624	35.333	18.779	0.00	0.00
ATOM	6884	O	LEU	X	455	49.581	35.388	17.549	0.00	0.00
ATOM	6885	N	ASP	X	456	50.183	36.328	19.523	0.00	0.00
ATOM	6886	H	ASP	X	456	50.295	36.168	20.514	0.00	0.00
ATOM	6887	CA	ASP	X	456	50.665	37.583	18.908	0.00	0.00
ATOM	6888	HA	ASP	X	456	49.961	37.900	18.139	0.00	0.00
ATOM	6889	CB	ASP	X	456	50.713	38.616	20.087	0.00	0.00
ATOM	6890	HB2	ASP	X	456	49.705	38.619	20.502	0.00	0.00
ATOM	6891	HB3	ASP	X	456	51.345	38.229	20.887	0.00	0.00
ATOM	6892	CG	ASP	X	456	51.101	40.006	19.731	0.00	0.00
ATOM	6893	OD1	ASP	X	456	52.320	40.264	19.493	0.00	0.00
ATOM	6894	OD2	ASP	X	456	50.284	40.927	19.869	0.00	0.00
ATOM	6895	C	ASP	X	456	52.103	37.320	18.400	0.00	0.00
ATOM	6896	O	ASP	X	456	52.760	36.366	18.868	0.00	0.00
ATOM	6897	N	PRO	X	457	52.669	38.139	17.435	0.00	0.00
ATOM	6898	CD	PRO	X	457	51.982	39.052	16.587	0.00	0.00
ATOM	6899	HD2	PRO	X	457	51.665	39.994	17.035	0.00	0.00
ATOM	6900	HD3	PRO	X	457	51.063	38.658	16.154	0.00	0.00
ATOM	6901	CG	PRO	X	457	53.012	39.478	15.492	0.00	0.00
ATOM	6902	HG2	PRO	X	457	53.419	40.419	15.861	0.00	0.00
ATOM	6903	HG3	PRO	X	457	52.532	39.621	14.523	0.00	0.00
ATOM	6904	CB	PRO	X	457	53.962	38.295	15.505	0.00	0.00
ATOM	6905	HB2	PRO	X	457	54.958	38.661	15.254	0.00	0.00
ATOM	6906	HB3	PRO	X	457	53.520	37.526	14.871	0.00	0.00
ATOM	6907	CA	PRO	X	457	54.023	37.851	16.945	0.00	0.00
ATOM	6908	HA	PRO	X	457	54.183	36.773	16.960	0.00	0.00
ATOM	6909	C	PRO	X	457	55.131	38.546	17.668	0.00	0.00
ATOM	6910	O	PRO	X	457	56.276	38.191	17.366	0.00	0.00
ATOM	6911	N	SER	X	458	54.879	39.506	18.596	0.00	0.00
ATOM	6912	H	SER	X	458	53.928	39.715	18.867	0.00	0.00
ATOM	6913	CA	SER	X	458	55.913	40.356	19.267	0.00	0.00
ATOM	6914	HA	SER	X	458	56.538	40.869	18.535	0.00	0.00
ATOM	6915	CB	SER	X	458	55.266	41.418	20.214	0.00	0.00
ATOM	6916	HB2	SER	X	458	56.100	42.040	20.542	0.00	0.00
ATOM	6917	HB3	SER	X	458	54.584	41.997	19.592	0.00	0.00
ATOM	6918	OG	SER	X	458	54.463	40.788	21.260	0.00	0.00
ATOM	6919	HG	SER	X	458	53.584	40.749	20.876	0.00	0.00
ATOM	6920	C	SER	X	458	56.916	39.481	20.071	0.00	0.00
ATOM	6921	O	SER	X	458	58.122	39.758	20.105	0.00	0.00
ATOM	6922	N	ARG	X	459	56.478	38.293	20.534	0.00	0.00
ATOM	6923	H	ARG	X	459	55.473	38.263	20.636	0.00	0.00
ATOM	6924	CA	ARG	X	459	57.284	37.235	21.165	0.00	0.00
ATOM	6925	HA	ARG	X	459	58.329	37.457	20.946	0.00	0.00
ATOM	6926	CB	ARG	X	459	57.156	37.285	22.669	0.00	0.00
ATOM	6927	HB2	ARG	X	459	56.129	37.095	22.983	0.00	0.00
ATOM	6928	HB3	ARG	X	459	57.860	36.507	22.965	0.00	0.00
ATOM	6929	CG	ARG	X	459	57.637	38.616	23.272	0.00	0.00
ATOM	6930	HG2	ARG	X	459	58.714	38.718	23.140	0.00	0.00
ATOM	6931	HG3	ARG	X	459	57.221	39.490	22.771	0.00	0.00
ATOM	6932	CD	ARG	X	459	57.468	38.699	24.791	0.00	0.00
ATOM	6933	HD2	ARG	X	459	57.956	37.842	25.256	0.00	0.00
ATOM	6934	HD3	ARG	X	459	58.114	39.526	25.085	0.00	0.00
ATOM	6935	NE	ARG	X	459	56.136	38.753	25.349	0.00	0.00
ATOM	6936	HE	ARG	X	459	55.363	38.883	24.711	0.00	0.00
ATOM	6937	CZ	ARG	X	459	55.863	38.566	26.619	0.00	0.00
ATOM	6938	NH1	ARG	X	459	56.795	38.510	27.620	0.00	0.00
ATOM	6939	HH11	ARG	X	459	57.792	38.675	27.607	0.00	0.00
ATOM	6940	HH12	ARG	X	459	56.538	38.193	28.544	0.00	0.00
ATOM	6941	NH2	ARG	X	459	54.572	38.563	26.928	0.00	0.00
ATOM	6942	HH21	ARG	X	459	53.821	38.748	26.278	0.00	0.00
ATOM	6943	HH22	ARG	X	459	54.331	38.369	27.889	0.00	0.00
ATOM	6944	C	ARG	X	459	57.050	35.802	20.601	0.00	0.00
ATOM	6945	O	ARG	X	459	55.941	35.286	20.488	0.00	0.00
ATOM	6946	N	ASN	X	460	58.086	35.011	20.375	0.00	0.00

ATOM	6947	H	ASN	X	460	59.010	35.414	20.443	0.00	0.00
ATOM	6948	CA	ASN	X	460	58.081	33.603	19.893	0.00	0.00
ATOM	6949	HA	ASN	X	460	57.271	33.474	19.175	0.00	0.00
ATOM	6950	CB	ASN	X	460	59.371	33.268	19.132	0.00	0.00
ATOM	6951	HB2	ASN	X	460	59.421	33.927	18.265	0.00	0.00
ATOM	6952	HB3	ASN	X	460	60.242	33.426	19.768	0.00	0.00
ATOM	6953	CG	ASN	X	460	59.328	31.855	18.523	0.00	0.00
ATOM	6954	OD1	ASN	X	460	58.479	31.053	18.882	0.00	0.00
ATOM	6955	ND2	ASN	X	460	60.179	31.577	17.525	0.00	0.00
ATOM	6956	HD21	ASN	X	460	60.169	30.638	17.153	0.00	0.00
ATOM	6957	HD22	ASN	X	460	60.730	32.322	17.123	0.00	0.00
ATOM	6958	C	ASN	X	460	57.789	32.604	21.129	0.00	0.00
ATOM	6959	O	ASN	X	460	58.700	32.241	21.828	0.00	0.00
ATOM	6960	N	TYR	X	461	56.529	32.373	21.398	0.00	0.00
ATOM	6961	H	TYR	X	461	55.813	32.939	20.966	0.00	0.00
ATOM	6962	CA	TYR	X	461	56.105	31.233	22.175	0.00	0.00
ATOM	6963	HA	TYR	X	461	56.827	31.097	22.980	0.00	0.00
ATOM	6964	CB	TYR	X	461	54.735	31.573	22.813	0.00	0.00
ATOM	6965	HB2	TYR	X	461	53.892	31.883	22.196	0.00	0.00
ATOM	6966	HB3	TYR	X	461	54.328	30.659	23.245	0.00	0.00
ATOM	6967	CG	TYR	X	461	54.759	32.605	23.920	0.00	0.00
ATOM	6968	CD1	TYR	X	461	54.458	33.951	23.568	0.00	0.00
ATOM	6969	HD1	TYR	X	461	54.489	34.245	22.530	0.00	0.00
ATOM	6970	CE1	TYR	X	461	54.104	34.840	24.591	0.00	0.00
ATOM	6971	HE1	TYR	X	461	53.958	35.889	24.380	0.00	0.00
ATOM	6972	CZ	TYR	X	461	54.079	34.426	25.935	0.00	0.00
ATOM	6973	OH	TYR	X	461	53.552	35.323	26.842	0.00	0.00
ATOM	6974	HH	TYR	X	461	53.550	34.939	27.722	0.00	0.00
ATOM	6975	CE2	TYR	X	461	54.321	33.101	26.245	0.00	0.00
ATOM	6976	HE2	TYR	X	461	54.132	32.830	27.274	0.00	0.00
ATOM	6977	CD2	TYR	X	461	54.686	32.208	25.238	0.00	0.00
ATOM	6978	HD2	TYR	X	461	54.755	31.162	25.501	0.00	0.00
ATOM	6979	C	TYR	X	461	56.064	29.904	21.348	0.00	0.00
ATOM	6980	O	TYR	X	461	55.971	29.919	20.142	0.00	0.00
ATOM	6981	N	THR	X	462	55.917	28.792	22.074	0.00	0.00
ATOM	6982	H	THR	X	462	55.930	28.878	23.080	0.00	0.00
ATOM	6983	CA	THR	X	462	55.845	27.421	21.561	0.00	0.00
ATOM	6984	HA	THR	X	462	56.575	27.431	20.751	0.00	0.00
ATOM	6985	CB	THR	X	462	56.362	26.381	22.594	0.00	0.00
ATOM	6986	HB	THR	X	462	56.350	25.374	22.178	0.00	0.00
ATOM	6987	CG2	THR	X	462	57.798	26.739	23.082	0.00	0.00
ATOM	6988	HG21	THR	X	462	58.632	26.365	22.487	0.00	0.00
ATOM	6989	HG22	THR	X	462	57.980	26.316	24.070	0.00	0.00
ATOM	6990	HG23	THR	X	462	57.946	27.818	23.035	0.00	0.00
ATOM	6991	OG1	THR	X	462	55.558	26.467	23.731	0.00	0.00
ATOM	6992	HG1	THR	X	462	55.607	27.354	24.093	0.00	0.00
ATOM	6993	C	THR	X	462	54.548	27.049	20.893	0.00	0.00
ATOM	6994	O	THR	X	462	53.500	27.505	21.392	0.00	0.00
ATOM	6995	N	ALA	X	463	54.445	26.128	19.924	0.00	0.00
ATOM	6996	H	ALA	X	463	55.321	25.774	19.568	0.00	0.00
ATOM	6997	CA	ALA	X	463	53.133	25.554	19.491	0.00	0.00
ATOM	6998	HA	ALA	X	463	52.527	26.405	19.178	0.00	0.00
ATOM	6999	CB	ALA	X	463	53.409	24.555	18.321	0.00	0.00
ATOM	7000	HB1	ALA	X	463	54.004	23.697	18.635	0.00	0.00
ATOM	7001	HB2	ALA	X	463	53.873	25.000	17.440	0.00	0.00
ATOM	7002	HB3	ALA	X	463	52.430	24.214	17.984	0.00	0.00
ATOM	7003	C	ALA	X	463	52.203	24.929	20.610	0.00	0.00
ATOM	7004	O	ALA	X	463	51.023	25.181	20.609	0.00	0.00
ATOM	7005	N	GLU	X	464	52.818	24.072	21.426	0.00	0.00
ATOM	7006	H	GLU	X	464	53.716	23.677	21.184	0.00	0.00
ATOM	7007	CA	GLU	X	464	52.247	23.461	22.568	0.00	0.00
ATOM	7008	HA	GLU	X	464	51.372	22.920	22.207	0.00	0.00
ATOM	7009	CB	GLU	X	464	53.314	22.644	23.238	0.00	0.00
ATOM	7010	HB2	GLU	X	464	53.836	22.170	22.407	0.00	0.00
ATOM	7011	HB3	GLU	X	464	53.937	23.303	23.843	0.00	0.00
ATOM	7012	CG	GLU	X	464	52.724	21.498	24.090	0.00	0.00
ATOM	7013	HG2	GLU	X	464	53.482	20.786	24.418	0.00	0.00

ATOM	7014	HG3	GLU	X	464	52.315	22.101	24.901	0.00	0.00
ATOM	7015	CD	GLU	X	464	51.773	20.607	23.282	0.00	0.00
ATOM	7016	OE1	GLU	X	464	50.667	20.416	23.770	0.00	0.00
ATOM	7017	OE2	GLU	X	464	52.144	20.193	22.156	0.00	0.00
ATOM	7018	C	GLU	X	464	51.698	24.579	23.543	0.00	0.00
ATOM	7019	O	GLU	X	464	50.664	24.357	24.200	0.00	0.00
ATOM	7020	N	GLU	X	465	52.310	25.770	23.654	0.00	0.00
ATOM	7021	H	GLU	X	465	53.117	25.993	23.088	0.00	0.00
ATOM	7022	CA	GLU	X	465	51.825	26.886	24.445	0.00	0.00
ATOM	7023	HA	GLU	X	465	51.500	26.583	25.440	0.00	0.00
ATOM	7024	CB	GLU	X	465	52.935	27.956	24.669	0.00	0.00
ATOM	7025	HB2	GLU	X	465	53.570	28.118	23.799	0.00	0.00
ATOM	7026	HB3	GLU	X	465	52.488	28.924	24.895	0.00	0.00
ATOM	7027	CG	GLU	X	465	53.741	27.637	25.887	0.00	0.00
ATOM	7028	HG2	GLU	X	465	53.135	27.901	26.754	0.00	0.00
ATOM	7029	HG3	GLU	X	465	54.012	26.581	25.861	0.00	0.00
ATOM	7030	CD	GLU	X	465	55.089	28.477	26.038	0.00	0.00
ATOM	7031	OE1	GLU	X	465	55.731	28.729	24.965	0.00	0.00
ATOM	7032	OE2	GLU	X	465	55.456	28.899	27.168	0.00	0.00
ATOM	7033	C	GLU	X	465	50.547	27.549	23.879	0.00	0.00
ATOM	7034	O	GLU	X	465	49.574	27.883	24.559	0.00	0.00
ATOM	7035	N	LYS	X	466	50.480	27.741	22.537	0.00	0.00
ATOM	7036	H	LYS	X	466	51.191	27.340	21.941	0.00	0.00
ATOM	7037	CA	LYS	X	466	49.319	28.409	21.873	0.00	0.00
ATOM	7038	HA	LYS	X	466	49.234	29.434	22.233	0.00	0.00
ATOM	7039	CB	LYS	X	466	49.661	28.583	20.357	0.00	0.00
ATOM	7040	HB2	LYS	X	466	49.937	27.669	19.830	0.00	0.00
ATOM	7041	HB3	LYS	X	466	48.825	29.012	19.804	0.00	0.00
ATOM	7042	CG	LYS	X	466	50.832	29.572	20.350	0.00	0.00
ATOM	7043	HG2	LYS	X	466	50.399	30.568	20.444	0.00	0.00
ATOM	7044	HG3	LYS	X	466	51.540	29.390	21.158	0.00	0.00
ATOM	7045	CD	LYS	X	466	51.543	29.492	18.976	0.00	0.00
ATOM	7046	HD2	LYS	X	466	51.883	28.489	18.718	0.00	0.00
ATOM	7047	HD3	LYS	X	466	50.775	29.720	18.237	0.00	0.00
ATOM	7048	CE	LYS	X	466	52.732	30.366	18.971	0.00	0.00
ATOM	7049	HE2	LYS	X	466	52.380	31.383	19.140	0.00	0.00
ATOM	7050	HE3	LYS	X	466	53.334	30.009	19.807	0.00	0.00
ATOM	7051	NZ	LYS	X	466	53.430	30.225	17.710	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	52.810	30.702	17.071	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	54.370	30.589	17.647	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	53.456	29.270	17.379	0.00	0.00
ATOM	7055	C	LYS	X	466	47.964	27.670	22.233	0.00	0.00
ATOM	7056	O	LYS	X	466	46.908	28.291	22.484	0.00	0.00
ATOM	7057	N	ILE	X	467	47.994	26.357	22.028	0.00	0.00
ATOM	7058	H	ILE	X	467	48.837	25.898	21.713	0.00	0.00
ATOM	7059	CA	ILE	X	467	46.783	25.533	22.227	0.00	0.00
ATOM	7060	HA	ILE	X	467	45.933	25.992	21.722	0.00	0.00
ATOM	7061	CB	ILE	X	467	46.913	24.200	21.503	0.00	0.00
ATOM	7062	HB	ILE	X	467	45.927	23.747	21.611	0.00	0.00
ATOM	7063	CG2	ILE	X	467	47.110	24.382	20.007	0.00	0.00
ATOM	7064	HG21	ILE	X	467	47.148	23.388	19.560	0.00	0.00
ATOM	7065	HG22	ILE	X	467	47.929	25.062	19.773	0.00	0.00
ATOM	7066	HG23	ILE	X	467	46.238	24.911	19.622	0.00	0.00
ATOM	7067	CG1	ILE	X	467	48.039	23.273	22.110	0.00	0.00
ATOM	7068	HG12	ILE	X	467	48.999	23.720	21.850	0.00	0.00
ATOM	7069	HG13	ILE	X	467	47.784	23.224	23.169	0.00	0.00
ATOM	7070	CD1	ILE	X	467	48.141	21.884	21.510	0.00	0.00
ATOM	7071	HD11	ILE	X	467	47.141	21.454	21.443	0.00	0.00
ATOM	7072	HD12	ILE	X	467	48.821	21.259	22.089	0.00	0.00
ATOM	7073	HD13	ILE	X	467	48.577	21.985	20.517	0.00	0.00
ATOM	7074	C	ILE	X	467	46.382	25.368	23.750	0.00	0.00
ATOM	7075	O	ILE	X	467	45.184	25.412	24.091	0.00	0.00
ATOM	7076	N	PHE	X	468	47.437	25.461	24.576	0.00	0.00
ATOM	7077	H	PHE	X	468	48.360	25.422	24.170	0.00	0.00
ATOM	7078	CA	PHE	X	468	47.269	25.611	26.026	0.00	0.00
ATOM	7079	HA	PHE	X	468	46.575	24.821	26.313	0.00	0.00
ATOM	7080	CB	PHE	X	468	48.582	25.295	26.725	0.00	0.00

ATOM	7081	HB2	PHE	X	468	48.844	24.238	26.682	0.00	0.00
ATOM	7082	HB3	PHE	X	468	49.315	25.937	26.237	0.00	0.00
ATOM	7083	CG	PHE	X	468	48.493	25.635	28.204	0.00	0.00
ATOM	7084	CD1	PHE	X	468	47.787	24.810	29.010	0.00	0.00
ATOM	7085	HD1	PHE	X	468	47.189	23.989	28.642	0.00	0.00
ATOM	7086	CE1	PHE	X	468	47.702	25.028	30.327	0.00	0.00
ATOM	7087	HE1	PHE	X	468	47.096	24.359	30.921	0.00	0.00
ATOM	7088	CZ	PHE	X	468	48.341	26.134	30.934	0.00	0.00
ATOM	7089	HZ	PHE	X	468	48.236	26.388	31.979	0.00	0.00
ATOM	7090	CE2	PHE	X	468	49.162	26.927	30.192	0.00	0.00
ATOM	7091	HE2	PHE	X	468	49.661	27.827	30.521	0.00	0.00
ATOM	7092	CD2	PHE	X	468	49.271	26.669	28.792	0.00	0.00
ATOM	7093	HD2	PHE	X	468	50.016	27.237	28.254	0.00	0.00
ATOM	7094	C	PHE	X	468	46.567	26.999	26.411	0.00	0.00
ATOM	7095	O	PHE	X	468	45.670	27.053	27.209	0.00	0.00
ATOM	7096	N	ALA	X	469	47.056	28.096	25.868	0.00	0.00
ATOM	7097	H	ALA	X	469	47.885	28.044	25.293	0.00	0.00
ATOM	7098	CA	ALA	X	469	46.381	29.468	25.974	0.00	0.00
ATOM	7099	HA	ALA	X	469	46.510	29.808	27.002	0.00	0.00
ATOM	7100	CB	ALA	X	469	46.974	30.378	24.973	0.00	0.00
ATOM	7101	HB1	ALA	X	469	48.052	30.432	25.120	0.00	0.00
ATOM	7102	HB2	ALA	X	469	46.464	31.338	25.046	0.00	0.00
ATOM	7103	HB3	ALA	X	469	46.874	30.041	23.941	0.00	0.00
ATOM	7104	C	ALA	X	469	44.880	29.301	25.659	0.00	0.00
ATOM	7105	O	ALA	X	469	44.000	29.656	26.429	0.00	0.00
ATOM	7106	N	GLN	X	470	44.519	28.544	24.606	0.00	0.00
ATOM	7107	H	GLN	X	470	45.258	28.253	23.983	0.00	0.00
ATOM	7108	CA	GLN	X	470	43.100	28.329	24.179	0.00	0.00
ATOM	7109	HA	GLN	X	470	42.546	29.268	24.173	0.00	0.00
ATOM	7110	CB	GLN	X	470	43.076	27.792	22.754	0.00	0.00
ATOM	7111	HB2	GLN	X	470	43.641	26.872	22.606	0.00	0.00
ATOM	7112	HB3	GLN	X	470	42.061	27.438	22.572	0.00	0.00
ATOM	7113	CG	GLN	X	470	43.569	28.753	21.656	0.00	0.00
ATOM	7114	HG2	GLN	X	470	42.972	29.656	21.533	0.00	0.00
ATOM	7115	HG3	GLN	X	470	44.572	29.109	21.890	0.00	0.00
ATOM	7116	CD	GLN	X	470	43.765	28.056	20.285	0.00	0.00
ATOM	7117	OE1	GLN	X	470	44.107	26.893	20.133	0.00	0.00
ATOM	7118	NE2	GLN	X	470	43.705	28.782	19.173	0.00	0.00
ATOM	7119	HE21	GLN	X	470	43.938	28.230	18.360	0.00	0.00
ATOM	7120	HE22	GLN	X	470	43.313	29.713	19.158	0.00	0.00
ATOM	7121	C	GLN	X	470	42.390	27.481	25.187	0.00	0.00
ATOM	7122	O	GLN	X	470	41.189	27.699	25.275	0.00	0.00
ATOM	7123	N	ARG	X	471	42.970	26.482	25.931	0.00	0.00
ATOM	7124	H	ARG	X	471	43.938	26.262	25.741	0.00	0.00
ATOM	7125	CA	ARG	X	471	42.372	25.830	27.119	0.00	0.00
ATOM	7126	HA	ARG	X	471	41.481	25.302	26.780	0.00	0.00
ATOM	7127	CB	ARG	X	471	43.334	24.801	27.674	0.00	0.00
ATOM	7128	HB2	ARG	X	471	44.329	25.244	27.686	0.00	0.00
ATOM	7129	HB3	ARG	X	471	43.189	24.660	28.746	0.00	0.00
ATOM	7130	CG	ARG	X	471	43.373	23.441	27.019	0.00	0.00
ATOM	7131	HG2	ARG	X	471	42.456	22.864	27.142	0.00	0.00
ATOM	7132	HG3	ARG	X	471	43.560	23.625	25.961	0.00	0.00
ATOM	7133	CD	ARG	X	471	44.433	22.551	27.706	0.00	0.00
ATOM	7134	HD2	ARG	X	471	44.524	21.671	27.070	0.00	0.00
ATOM	7135	HD3	ARG	X	471	45.399	23.057	27.687	0.00	0.00
ATOM	7136	NE	ARG	X	471	44.082	22.223	29.074	0.00	0.00
ATOM	7137	HE	ARG	X	471	43.097	22.168	29.289	0.00	0.00
ATOM	7138	CZ	ARG	X	471	44.761	21.625	30.011	0.00	0.00
ATOM	7139	NH1	ARG	X	471	45.944	21.160	29.716	0.00	0.00
ATOM	7140	HH11	ARG	X	471	46.280	21.129	28.764	0.00	0.00
ATOM	7141	HH12	ARG	X	471	46.586	21.023	30.483	0.00	0.00
ATOM	7142	NH2	ARG	X	471	44.339	21.538	31.205	0.00	0.00
ATOM	7143	HH21	ARG	X	471	43.423	21.900	31.427	0.00	0.00
ATOM	7144	HH22	ARG	X	471	44.880	21.169	31.974	0.00	0.00
ATOM	7145	C	ARG	X	471	41.951	26.840	28.147	0.00	0.00
ATOM	7146	O	ARG	X	471	40.769	26.891	28.490	0.00	0.00
ATOM	7147	N	LEU	X	472	42.834	27.718	28.440	0.00	0.00

ATOM	7148	H	LEU	X	472	43.720	27.474	28.022	0.00	0.00
ATOM	7149	CA	LEU	X	472	42.687	28.805	29.465	0.00	0.00
ATOM	7150	HA	LEU	X	472	42.211	28.336	30.326	0.00	0.00
ATOM	7151	CB	LEU	X	472	44.058	29.387	29.906	0.00	0.00
ATOM	7152	HB2	LEU	X	472	44.726	29.288	29.051	0.00	0.00
ATOM	7153	HB3	LEU	X	472	43.905	30.457	30.049	0.00	0.00
ATOM	7154	CG	LEU	X	472	44.718	28.730	31.171	0.00	0.00
ATOM	7155	HG	LEU	X	472	44.024	28.804	32.007	0.00	0.00
ATOM	7156	CD1	LEU	X	472	45.040	27.241	30.938	0.00	0.00
ATOM	7157	HD11	LEU	X	472	45.413	26.745	31.833	0.00	0.00
ATOM	7158	HD12	LEU	X	472	45.823	27.097	30.194	0.00	0.00
ATOM	7159	HD13	LEU	X	472	44.109	26.730	30.691	0.00	0.00
ATOM	7160	CD2	LEU	X	472	45.911	29.541	31.681	0.00	0.00
ATOM	7161	HD21	LEU	X	472	45.598	30.581	31.772	0.00	0.00
ATOM	7162	HD22	LEU	X	472	46.424	29.155	32.562	0.00	0.00
ATOM	7163	HD23	LEU	X	472	46.672	29.513	30.901	0.00	0.00
ATOM	7164	C	LEU	X	472	41.620	29.897	29.085	0.00	0.00
ATOM	7165	O	LEU	X	472	40.946	30.450	29.969	0.00	0.00
ATOM	7166	N	MET	X	473	41.571	30.324	27.779	0.00	0.00
ATOM	7167	H	MET	X	473	42.326	30.122	27.139	0.00	0.00
ATOM	7168	CA	MET	X	473	40.609	31.294	27.132	0.00	0.00
ATOM	7169	HA	MET	X	473	40.411	32.197	27.710	0.00	0.00
ATOM	7170	CB	MET	X	473	41.123	31.650	25.713	0.00	0.00
ATOM	7171	HB2	MET	X	473	41.284	30.723	25.163	0.00	0.00
ATOM	7172	HB3	MET	X	473	40.340	32.171	25.163	0.00	0.00
ATOM	7173	CG	MET	X	473	42.444	32.482	25.675	0.00	0.00
ATOM	7174	HG2	MET	X	473	42.259	33.524	25.938	0.00	0.00
ATOM	7175	HG3	MET	X	473	43.092	32.068	26.448	0.00	0.00
ATOM	7176	SD	MET	X	473	43.317	32.394	24.048	0.00	0.00
ATOM	7177	CE	MET	X	473	42.073	32.962	22.859	0.00	0.00
ATOM	7178	HE1	MET	X	473	41.078	32.582	23.092	0.00	0.00
ATOM	7179	HE2	MET	X	473	42.082	34.038	22.689	0.00	0.00
ATOM	7180	HE3	MET	X	473	42.325	32.549	21.882	0.00	0.00
ATOM	7181	C	MET	X	473	39.195	30.655	27.194	0.00	0.00
ATOM	7182	O	MET	X	473	38.258	31.366	27.494	0.00	0.00
ATOM	7183	N	ARG	X	474	39.163	29.369	26.941	0.00	0.00
ATOM	7184	H	ARG	X	474	40.016	28.862	26.753	0.00	0.00
ATOM	7185	CA	ARG	X	474	37.933	28.539	27.072	0.00	0.00
ATOM	7186	HA	ARG	X	474	37.137	29.081	26.561	0.00	0.00
ATOM	7187	CB	ARG	X	474	38.186	27.176	26.322	0.00	0.00
ATOM	7188	HB2	ARG	X	474	38.573	27.381	25.324	0.00	0.00
ATOM	7189	HB3	ARG	X	474	38.944	26.556	26.801	0.00	0.00
ATOM	7190	CG	ARG	X	474	36.934	26.231	26.113	0.00	0.00
ATOM	7191	HG2	ARG	X	474	37.202	25.481	25.368	0.00	0.00
ATOM	7192	HG3	ARG	X	474	36.707	25.772	27.075	0.00	0.00
ATOM	7193	CD	ARG	X	474	35.773	27.035	25.523	0.00	0.00
ATOM	7194	HD2	ARG	X	474	35.411	27.744	26.267	0.00	0.00
ATOM	7195	HD3	ARG	X	474	36.023	27.612	24.633	0.00	0.00
ATOM	7196	NE	ARG	X	474	34.672	26.194	25.066	0.00	0.00
ATOM	7197	HE	ARG	X	474	34.565	25.304	25.532	0.00	0.00
ATOM	7198	CZ	ARG	X	474	33.710	26.600	24.349	0.00	0.00
ATOM	7199	NH1	ARG	X	474	33.551	27.815	23.858	0.00	0.00
ATOM	7200	HH11	ARG	X	474	34.254	28.527	23.993	0.00	0.00
ATOM	7201	HH12	ARG	X	474	32.854	27.882	23.130	0.00	0.00
ATOM	7202	NH2	ARG	X	474	32.754	25.757	24.067	0.00	0.00
ATOM	7203	HH21	ARG	X	474	32.722	24.809	24.412	0.00	0.00
ATOM	7204	HH22	ARG	X	474	31.957	26.067	23.529	0.00	0.00
ATOM	7205	C	ARG	X	474	37.484	28.357	28.509	0.00	0.00
ATOM	7206	O	ARG	X	474	36.306	28.705	28.724	0.00	0.00
ATOM	7207	N	TYR	X	475	38.283	27.952	29.454	0.00	0.00
ATOM	7208	H	TYR	X	475	39.232	27.690	29.227	0.00	0.00
ATOM	7209	CA	TYR	X	475	37.882	27.632	30.810	0.00	0.00
ATOM	7210	HA	TYR	X	475	37.082	26.897	30.903	0.00	0.00
ATOM	7211	CB	TYR	X	475	39.110	27.200	31.640	0.00	0.00
ATOM	7212	HB2	TYR	X	475	39.950	27.881	31.497	0.00	0.00
ATOM	7213	HB3	TYR	X	475	38.856	27.232	32.700	0.00	0.00
ATOM	7214	CG	TYR	X	475	39.772	25.817	31.293	0.00	0.00

ATOM	7215	CD1	TYR	X	475	38.961	24.786	30.798	0.00	0.00
ATOM	7216	HD1	TYR	X	475	37.902	24.893	30.615	0.00	0.00
ATOM	7217	CE1	TYR	X	475	39.525	23.523	30.594	0.00	0.00
ATOM	7218	HE1	TYR	X	475	38.900	22.745	30.183	0.00	0.00
ATOM	7219	CZ	TYR	X	475	40.902	23.294	30.876	0.00	0.00
ATOM	7220	OH	TYR	X	475	41.442	22.080	30.661	0.00	0.00
ATOM	7221	HH	TYR	X	475	40.859	21.500	30.165	0.00	0.00
ATOM	7222	CE2	TYR	X	475	41.636	24.299	31.439	0.00	0.00
ATOM	7223	HE2	TYR	X	475	42.654	24.122	31.751	0.00	0.00
ATOM	7224	CD2	TYR	X	475	41.109	25.596	31.604	0.00	0.00
ATOM	7225	HD2	TYR	X	475	41.653	26.398	32.081	0.00	0.00
ATOM	7226	C	TYR	X	475	37.334	28.984	31.466	0.00	0.00
ATOM	7227	O	TYR	X	475	36.231	28.894	32.029	0.00	0.00
ATOM	7228	N	TRP	X	476	37.992	30.161	31.375	0.00	0.00
ATOM	7229	H	TRP	X	476	38.895	30.177	30.922	0.00	0.00
ATOM	7230	CA	TRP	X	476	37.430	31.467	31.909	0.00	0.00
ATOM	7231	HA	TRP	X	476	37.044	31.317	32.917	0.00	0.00
ATOM	7232	CB	TRP	X	476	38.587	32.503	31.782	0.00	0.00
ATOM	7233	HB2	TRP	X	476	39.150	32.363	30.859	0.00	0.00
ATOM	7234	HB3	TRP	X	476	38.093	33.472	31.723	0.00	0.00
ATOM	7235	CG	TRP	X	476	39.448	32.576	32.960	0.00	0.00
ATOM	7236	CD1	TRP	X	476	39.629	33.717	33.668	0.00	0.00
ATOM	7237	HD1	TRP	X	476	39.112	34.637	33.439	0.00	0.00
ATOM	7238	NE1	TRP	X	476	40.676	33.572	34.552	0.00	0.00
ATOM	7239	HE1	TRP	X	476	40.961	34.313	35.176	0.00	0.00
ATOM	7240	CE2	TRP	X	476	41.016	32.227	34.599	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	41.939	31.566	35.427	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	42.525	32.075	36.178	0.00	0.00
ATOM	7243	CH2	TRP	X	476	42.226	30.225	35.113	0.00	0.00
ATOM	7244	HH2	TRP	X	476	42.954	29.681	35.697	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	41.582	29.539	34.060	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	41.815	28.545	33.706	0.00	0.00
ATOM	7247	CE3	TRP	X	476	40.670	30.281	33.303	0.00	0.00
ATOM	7248	HE3	TRP	X	476	40.245	29.880	32.395	0.00	0.00
ATOM	7249	CD2	TRP	X	476	40.253	31.575	33.588	0.00	0.00
ATOM	7250	C	TRP	X	476	36.208	31.965	31.129	0.00	0.00
ATOM	7251	O	TRP	X	476	35.303	32.556	31.716	0.00	0.00
ATOM	7252	N	ALA	X	477	36.057	31.579	29.879	0.00	0.00
ATOM	7253	H	ALA	X	477	36.905	31.247	29.442	0.00	0.00
ATOM	7254	CA	ALA	X	477	34.889	32.087	29.070	0.00	0.00
ATOM	7255	HA	ALA	X	477	34.745	33.111	29.417	0.00	0.00
ATOM	7256	CB	ALA	X	477	35.241	32.068	27.571	0.00	0.00
ATOM	7257	HB1	ALA	X	477	35.984	32.842	27.380	0.00	0.00
ATOM	7258	HB2	ALA	X	477	34.413	32.377	26.933	0.00	0.00
ATOM	7259	HB3	ALA	X	477	35.517	31.047	27.309	0.00	0.00
ATOM	7260	C	ALA	X	477	33.680	31.169	29.354	0.00	0.00
ATOM	7261	O	ALA	X	477	32.545	31.640	29.313	0.00	0.00
ATOM	7262	N	ASN	X	478	33.892	29.844	29.582	0.00	0.00
ATOM	7263	H	ASN	X	478	34.808	29.485	29.355	0.00	0.00
ATOM	7264	CA	ASN	X	478	32.813	28.877	29.997	0.00	0.00
ATOM	7265	HA	ASN	X	478	32.013	28.862	29.258	0.00	0.00
ATOM	7266	CB	ASN	X	478	33.385	27.471	30.172	0.00	0.00
ATOM	7267	HB2	ASN	X	478	34.246	27.633	30.820	0.00	0.00
ATOM	7268	HB3	ASN	X	478	32.598	26.870	30.628	0.00	0.00
ATOM	7269	CG	ASN	X	478	33.773	26.825	28.911	0.00	0.00
ATOM	7270	OD1	ASN	X	478	33.517	27.387	27.823	0.00	0.00
ATOM	7271	ND2	ASN	X	478	34.508	25.727	28.893	0.00	0.00
ATOM	7272	HD21	ASN	X	478	34.755	25.183	28.079	0.00	0.00
ATOM	7273	HD22	ASN	X	478	34.738	25.304	29.780	0.00	0.00
ATOM	7274	C	ASN	X	478	32.184	29.344	31.311	0.00	0.00
ATOM	7275	O	ASN	X	478	30.997	29.668	31.388	0.00	0.00
ATOM	7276	N	PHE	X	479	32.993	29.748	32.295	0.00	0.00
ATOM	7277	H	PHE	X	479	33.997	29.705	32.198	0.00	0.00
ATOM	7278	CA	PHE	X	479	32.549	30.297	33.530	0.00	0.00
ATOM	7279	HA	PHE	X	479	31.960	29.569	34.087	0.00	0.00
ATOM	7280	CB	PHE	X	479	33.780	30.717	34.486	0.00	0.00
ATOM	7281	HB2	PHE	X	479	34.278	29.803	34.811	0.00	0.00

ATOM	7282	HB3	PHE	X	479	34.405	31.297	33.807	0.00	0.00
ATOM	7283	CG	PHE	X	479	33.357	31.468	35.761	0.00	0.00
ATOM	7284	CD1	PHE	X	479	33.010	30.779	36.947	0.00	0.00
ATOM	7285	HD1	PHE	X	479	33.126	29.707	37.015	0.00	0.00
ATOM	7286	CE1	PHE	X	479	32.629	31.437	38.120	0.00	0.00
ATOM	7287	HE1	PHE	X	479	32.237	30.949	38.999	0.00	0.00
ATOM	7288	CZ	PHE	X	479	32.709	32.834	38.154	0.00	0.00
ATOM	7289	HZ	PHE	X	479	32.457	33.320	39.085	0.00	0.00
ATOM	7290	CE2	PHE	X	479	33.124	33.615	37.057	0.00	0.00
ATOM	7291	HE2	PHE	X	479	33.192	34.688	37.153	0.00	0.00
ATOM	7292	CD2	PHE	X	479	33.342	32.900	35.798	0.00	0.00
ATOM	7293	HD2	PHE	X	479	33.351	33.454	34.870	0.00	0.00
ATOM	7294	C	PHE	X	479	31.786	31.601	33.216	0.00	0.00
ATOM	7295	O	PHE	X	479	30.710	31.777	33.788	0.00	0.00
ATOM	7296	N	ALA	X	480	32.204	32.491	32.297	0.00	0.00
ATOM	7297	H	ALA	X	480	33.062	32.262	31.815	0.00	0.00
ATOM	7298	CA	ALA	X	480	31.486	33.745	32.008	0.00	0.00
ATOM	7299	HA	ALA	X	480	31.439	34.373	32.898	0.00	0.00
ATOM	7300	CB	ALA	X	480	32.263	34.523	30.929	0.00	0.00
ATOM	7301	HB1	ALA	X	480	33.326	34.574	31.165	0.00	0.00
ATOM	7302	HB2	ALA	X	480	31.814	35.516	30.945	0.00	0.00
ATOM	7303	HB3	ALA	X	480	32.277	34.065	29.940	0.00	0.00
ATOM	7304	C	ALA	X	480	30.038	33.520	31.432	0.00	0.00
ATOM	7305	O	ALA	X	480	29.284	34.506	31.456	0.00	0.00
ATOM	7306	N	ARG	X	481	29.741	32.298	30.869	0.00	0.00
ATOM	7307	H	ARG	X	481	30.542	31.685	30.822	0.00	0.00
ATOM	7308	CA	ARG	X	481	28.421	31.962	30.301	0.00	0.00
ATOM	7309	HA	ARG	X	481	27.982	32.942	30.108	0.00	0.00
ATOM	7310	CB	ARG	X	481	28.651	31.031	29.052	0.00	0.00
ATOM	7311	HB2	ARG	X	481	29.128	30.096	29.345	0.00	0.00
ATOM	7312	HB3	ARG	X	481	27.666	30.828	28.630	0.00	0.00
ATOM	7313	CG	ARG	X	481	29.492	31.751	27.954	0.00	0.00
ATOM	7314	HG2	ARG	X	481	28.835	32.482	27.483	0.00	0.00
ATOM	7315	HG3	ARG	X	481	30.398	32.272	28.261	0.00	0.00
ATOM	7316	CD	ARG	X	481	30.043	30.627	27.063	0.00	0.00
ATOM	7317	HD2	ARG	X	481	30.611	29.970	27.722	0.00	0.00
ATOM	7318	HD3	ARG	X	481	29.204	30.071	26.646	0.00	0.00
ATOM	7319	NE	ARG	X	481	30.825	31.153	25.964	0.00	0.00
ATOM	7320	HE	ARG	X	481	30.234	31.681	25.338	0.00	0.00
ATOM	7321	CZ	ARG	X	481	32.073	30.872	25.685	0.00	0.00
ATOM	7322	NH1	ARG	X	481	32.895	30.071	26.301	0.00	0.00
ATOM	7323	HH11	ARG	X	481	32.562	29.601	27.131	0.00	0.00
ATOM	7324	HH12	ARG	X	481	33.791	29.816	25.911	0.00	0.00
ATOM	7325	NH2	ARG	X	481	32.594	31.399	24.608	0.00	0.00
ATOM	7326	HH21	ARG	X	481	31.955	31.964	24.067	0.00	0.00
ATOM	7327	HH22	ARG	X	481	33.472	31.029	24.272	0.00	0.00
ATOM	7328	C	ARG	X	481	27.423	31.243	31.243	0.00	0.00
ATOM	7329	O	ARG	X	481	26.222	31.610	31.233	0.00	0.00
ATOM	7330	N	THR	X	482	27.856	30.283	32.075	0.00	0.00
ATOM	7331	H	THR	X	482	28.766	29.929	31.817	0.00	0.00
ATOM	7332	CA	THR	X	482	26.930	29.504	32.948	0.00	0.00
ATOM	7333	HA	THR	X	482	25.904	29.870	32.997	0.00	0.00
ATOM	7334	CB	THR	X	482	26.897	28.031	32.495	0.00	0.00
ATOM	7335	HB	THR	X	482	26.439	27.398	33.254	0.00	0.00
ATOM	7336	CG2	THR	X	482	26.005	28.005	31.209	0.00	0.00
ATOM	7337	HG21	THR	X	482	25.734	26.952	31.134	0.00	0.00
ATOM	7338	HG22	THR	X	482	26.544	28.296	30.307	0.00	0.00
ATOM	7339	HG23	THR	X	482	25.093	28.545	31.462	0.00	0.00
ATOM	7340	OG1	THR	X	482	28.235	27.581	32.258	0.00	0.00
ATOM	7341	HG1	THR	X	482	28.361	26.866	31.631	0.00	0.00
ATOM	7342	C	THR	X	482	27.335	29.474	34.466	0.00	0.00
ATOM	7343	O	THR	X	482	26.584	28.887	35.296	0.00	0.00
ATOM	7344	N	GLY	X	483	28.544	29.852	34.796	0.00	0.00
ATOM	7345	H	GLY	X	483	29.124	30.183	34.039	0.00	0.00
ATOM	7346	CA	GLY	X	483	29.135	29.672	36.129	0.00	0.00
ATOM	7347	HA2	GLY	X	483	29.667	30.597	36.351	0.00	0.00
ATOM	7348	HA3	GLY	X	483	28.425	29.481	36.934	0.00	0.00

ATOM	7349	C	GLY	X	483	30.149	28.525	36.121	0.00	0.00
ATOM	7350	O	GLY	X	483	30.884	28.356	37.092	0.00	0.00
ATOM	7351	N	ASP	X	484	30.200	27.749	35.007	0.00	0.00
ATOM	7352	H	ASP	X	484	29.680	28.093	34.212	0.00	0.00
ATOM	7353	CA	ASP	X	484	30.848	26.448	35.005	0.00	0.00
ATOM	7354	HA	ASP	X	484	31.223	26.152	35.985	0.00	0.00
ATOM	7355	CB	ASP	X	484	29.678	25.486	34.707	0.00	0.00
ATOM	7356	HB2	ASP	X	484	28.905	25.862	35.378	0.00	0.00
ATOM	7357	HB3	ASP	X	484	29.154	25.644	33.765	0.00	0.00
ATOM	7358	CG	ASP	X	484	29.952	23.971	34.958	0.00	0.00
ATOM	7359	OD1	ASP	X	484	29.033	23.158	34.747	0.00	0.00
ATOM	7360	OD2	ASP	X	484	31.023	23.576	35.413	0.00	0.00
ATOM	7361	C	ASP	X	484	32.021	26.358	33.937	0.00	0.00
ATOM	7362	O	ASP	X	484	31.672	26.405	32.768	0.00	0.00
ATOM	7363	N	PRO	X	485	33.290	26.215	34.358	0.00	0.00
ATOM	7364	CD	PRO	X	485	33.762	26.234	35.720	0.00	0.00
ATOM	7365	HD2	PRO	X	485	33.505	25.248	36.106	0.00	0.00
ATOM	7366	HD3	PRO	X	485	33.307	27.115	36.174	0.00	0.00
ATOM	7367	CG	PRO	X	485	35.250	26.469	35.638	0.00	0.00
ATOM	7368	HG2	PRO	X	485	35.822	26.125	36.500	0.00	0.00
ATOM	7369	HG3	PRO	X	485	35.520	27.523	35.562	0.00	0.00
ATOM	7370	CB	PRO	X	485	35.675	25.858	34.299	0.00	0.00
ATOM	7371	HB2	PRO	X	485	35.857	24.805	34.514	0.00	0.00
ATOM	7372	HB3	PRO	X	485	36.494	26.437	33.873	0.00	0.00
ATOM	7373	CA	PRO	X	485	34.449	25.910	33.501	0.00	0.00
ATOM	7374	HA	PRO	X	485	34.474	26.806	32.881	0.00	0.00
ATOM	7375	C	PRO	X	485	34.240	24.686	32.562	0.00	0.00
ATOM	7376	O	PRO	X	485	34.867	24.706	31.532	0.00	0.00
ATOM	7377	N	ASN	X	486	33.360	23.735	32.843	0.00	0.00
ATOM	7378	H	ASN	X	486	32.792	23.902	33.662	0.00	0.00
ATOM	7379	CA	ASN	X	486	33.117	22.500	32.118	0.00	0.00
ATOM	7380	HA	ASN	X	486	34.044	21.989	31.857	0.00	0.00
ATOM	7381	CB	ASN	X	486	32.168	21.582	32.999	0.00	0.00
ATOM	7382	HB2	ASN	X	486	32.561	21.585	34.015	0.00	0.00
ATOM	7383	HB3	ASN	X	486	31.196	22.065	32.904	0.00	0.00
ATOM	7384	CG	ASN	X	486	32.078	20.103	32.646	0.00	0.00
ATOM	7385	OD1	ASN	X	486	32.243	19.802	31.457	0.00	0.00
ATOM	7386	ND2	ASN	X	486	31.984	19.223	33.598	0.00	0.00
ATOM	7387	HD21	ASN	X	486	32.140	18.234	33.465	0.00	0.00
ATOM	7388	HD22	ASN	X	486	31.456	19.542	34.398	0.00	0.00
ATOM	7389	C	ASN	X	486	32.389	22.842	30.762	0.00	0.00
ATOM	7390	O	ASN	X	486	31.725	23.873	30.618	0.00	0.00
ATOM	7391	N	GLU	X	487	32.585	21.974	29.756	0.00	0.00
ATOM	7392	H	GLU	X	487	32.913	21.053	30.010	0.00	0.00
ATOM	7393	CA	GLU	X	487	31.934	22.308	28.395	0.00	0.00
ATOM	7394	HA	GLU	X	487	32.032	23.365	28.146	0.00	0.00
ATOM	7395	CB	GLU	X	487	32.604	21.451	27.304	0.00	0.00
ATOM	7396	HB2	GLU	X	487	32.371	20.425	27.592	0.00	0.00
ATOM	7397	HB3	GLU	X	487	32.027	21.586	26.388	0.00	0.00
ATOM	7398	CG	GLU	X	487	34.049	21.765	26.977	0.00	0.00
ATOM	7399	HG2	GLU	X	487	34.654	21.835	27.881	0.00	0.00
ATOM	7400	HG3	GLU	X	487	34.351	20.969	26.297	0.00	0.00
ATOM	7401	CD	GLU	X	487	34.158	23.046	26.188	0.00	0.00
ATOM	7402	OE1	GLU	X	487	33.639	23.215	25.024	0.00	0.00
ATOM	7403	OE2	GLU	X	487	34.881	23.955	26.694	0.00	0.00
ATOM	7404	C	GLU	X	487	30.446	21.944	28.449	0.00	0.00
ATOM	7405	O	GLU	X	487	30.157	20.893	29.013	0.00	0.00
ATOM	7406	N	PRO	X	488	29.516	22.740	27.916	0.00	0.00
ATOM	7407	CD	PRO	X	488	29.791	24.017	27.203	0.00	0.00
ATOM	7408	HD2	PRO	X	488	30.606	24.097	26.484	0.00	0.00
ATOM	7409	HD3	PRO	X	488	29.932	24.734	28.012	0.00	0.00
ATOM	7410	CG	PRO	X	488	28.443	24.299	26.517	0.00	0.00
ATOM	7411	HG2	PRO	X	488	28.387	23.750	25.578	0.00	0.00
ATOM	7412	HG3	PRO	X	488	28.255	25.371	26.452	0.00	0.00
ATOM	7413	CB	PRO	X	488	27.483	23.760	27.494	0.00	0.00
ATOM	7414	HB2	PRO	X	488	26.457	23.729	27.130	0.00	0.00
ATOM	7415	HB3	PRO	X	488	27.569	24.355	28.404	0.00	0.00

ATOM	7416	CA	PRO	X	488	28.103	22.388	27.861	0.00	0.00
ATOM	7417	HA	PRO	X	488	27.766	22.109	28.859	0.00	0.00
ATOM	7418	C	PRO	X	488	27.716	21.181	26.901	0.00	0.00
ATOM	7419	O	PRO	X	488	26.686	21.268	26.212	0.00	0.00
ATOM	7420	N	ARG	X	489	28.593	20.196	26.776	0.00	0.00
ATOM	7421	H	ARG	X	489	29.450	20.218	27.310	0.00	0.00
ATOM	7422	CA	ARG	X	489	28.495	19.143	25.761	0.00	0.00
ATOM	7423	HA	ARG	X	489	27.527	18.649	25.846	0.00	0.00
ATOM	7424	CB	ARG	X	489	28.658	19.699	24.303	0.00	0.00
ATOM	7425	HB2	ARG	X	489	28.572	18.813	23.675	0.00	0.00
ATOM	7426	HB3	ARG	X	489	27.763	20.277	24.073	0.00	0.00
ATOM	7427	CG	ARG	X	489	29.975	20.442	23.998	0.00	0.00
ATOM	7428	HG2	ARG	X	489	30.907	20.153	24.482	0.00	0.00
ATOM	7429	HG3	ARG	X	489	30.183	20.234	22.949	0.00	0.00
ATOM	7430	CD	ARG	X	489	30.008	21.947	24.160	0.00	0.00
ATOM	7431	HD2	ARG	X	489	29.103	22.364	23.718	0.00	0.00
ATOM	7432	HD3	ARG	X	489	29.845	22.189	25.210	0.00	0.00
ATOM	7433	NE	ARG	X	489	31.327	22.477	23.650	0.00	0.00
ATOM	7434	HE	ARG	X	489	32.167	22.517	24.210	0.00	0.00
ATOM	7435	CZ	ARG	X	489	31.494	23.110	22.504	0.00	0.00
ATOM	7436	NH1	ARG	X	489	32.709	23.429	22.209	0.00	0.00
ATOM	7437	HH11	ARG	X	489	33.421	22.911	22.703	0.00	0.00
ATOM	7438	HH12	ARG	X	489	32.942	23.788	21.295	0.00	0.00
ATOM	7439	NH2	ARG	X	489	30.509	23.390	21.671	0.00	0.00
ATOM	7440	HH21	ARG	X	489	29.574	23.496	22.038	0.00	0.00
ATOM	7441	HH22	ARG	X	489	30.658	23.597	20.694	0.00	0.00
ATOM	7442	C	ARG	X	489	29.549	18.207	26.017	0.00	0.00
ATOM	7443	O	ARG	X	489	30.591	18.532	26.510	0.00	0.00
ATOM	7444	N	ASP	X	490	29.346	16.947	25.624	0.00	0.00
ATOM	7445	H	ASP	X	490	28.452	16.819	25.172	0.00	0.00
ATOM	7446	CA	ASP	X	490	30.254	15.804	25.938	0.00	0.00
ATOM	7447	HA	ASP	X	490	30.408	15.704	27.013	0.00	0.00
ATOM	7448	CB	ASP	X	490	29.580	14.492	25.558	0.00	0.00
ATOM	7449	HB2	ASP	X	490	28.586	14.466	26.003	0.00	0.00
ATOM	7450	HB3	ASP	X	490	29.483	14.599	24.477	0.00	0.00
ATOM	7451	CG	ASP	X	490	30.334	13.210	26.039	0.00	0.00
ATOM	7452	OD1	ASP	X	490	30.638	12.263	25.242	0.00	0.00
ATOM	7453	OD2	ASP	X	490	30.537	13.210	27.320	0.00	0.00
ATOM	7454	C	ASP	X	490	31.678	15.949	25.152	0.00	0.00
ATOM	7455	O	ASP	X	490	31.705	16.054	23.914	0.00	0.00
ATOM	7456	N	PRO	X	491	32.759	16.151	25.923	0.00	0.00
ATOM	7457	CD	PRO	X	491	32.925	16.050	27.352	0.00	0.00
ATOM	7458	HD2	PRO	X	491	32.893	15.044	27.770	0.00	0.00
ATOM	7459	HD3	PRO	X	491	32.146	16.684	27.776	0.00	0.00
ATOM	7460	CG	PRO	X	491	34.245	16.563	27.743	0.00	0.00
ATOM	7461	HG2	PRO	X	491	35.003	15.787	27.849	0.00	0.00
ATOM	7462	HG3	PRO	X	491	34.145	17.115	28.677	0.00	0.00
ATOM	7463	CB	PRO	X	491	34.646	17.397	26.571	0.00	0.00
ATOM	7464	HB2	PRO	X	491	35.716	17.501	26.392	0.00	0.00
ATOM	7465	HB3	PRO	X	491	34.194	18.386	26.648	0.00	0.00
ATOM	7466	CA	PRO	X	491	34.027	16.591	25.451	0.00	0.00
ATOM	7467	HA	PRO	X	491	33.876	17.249	24.595	0.00	0.00
ATOM	7468	C	PRO	X	491	34.867	15.423	25.090	0.00	0.00
ATOM	7469	O	PRO	X	491	34.610	14.252	25.406	0.00	0.00
ATOM	7470	N	LYS	X	492	35.996	15.754	24.494	0.00	0.00
ATOM	7471	H	LYS	X	492	36.267	16.718	24.361	0.00	0.00
ATOM	7472	CA	LYS	X	492	37.042	14.836	24.129	0.00	0.00
ATOM	7473	HA	LYS	X	492	36.746	13.818	24.382	0.00	0.00
ATOM	7474	CB	LYS	X	492	37.325	14.892	22.585	0.00	0.00
ATOM	7475	HB2	LYS	X	492	37.837	15.849	22.478	0.00	0.00
ATOM	7476	HB3	LYS	X	492	38.035	14.188	22.151	0.00	0.00
ATOM	7477	CG	LYS	X	492	36.024	15.015	21.748	0.00	0.00
ATOM	7478	HG2	LYS	X	492	35.488	14.069	21.827	0.00	0.00
ATOM	7479	HG3	LYS	X	492	35.309	15.709	22.191	0.00	0.00
ATOM	7480	CD	LYS	X	492	36.218	15.102	20.186	0.00	0.00
ATOM	7481	HD2	LYS	X	492	36.956	15.901	20.109	0.00	0.00
ATOM	7482	HD3	LYS	X	492	36.661	14.192	19.783	0.00	0.00

ATOM	7483	CE	LYS	X	492	34.883	15.374	19.470	0.00	0.00
ATOM	7484	HE2	LYS	X	492	34.435	16.243	19.953	0.00	0.00
ATOM	7485	HE3	LYS	X	492	35.002	15.678	18.430	0.00	0.00
ATOM	7486	NZ	LYS	X	492	33.962	14.195	19.442	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	34.456	13.428	19.010	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	33.680	13.842	20.345	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	33.158	14.335	18.846	0.00	0.00
ATOM	7490	C	LYS	X	492	38.252	15.046	24.970	0.00	0.00
ATOM	7491	O	LYS	X	492	39.358	14.710	24.564	0.00	0.00
ATOM	7492	N	ALA	X	493	38.056	15.574	26.213	0.00	0.00
ATOM	7493	H	ALA	X	493	37.084	15.767	26.410	0.00	0.00
ATOM	7494	CA	ALA	X	493	39.121	15.994	27.150	0.00	0.00
ATOM	7495	HA	ALA	X	493	40.009	15.363	27.196	0.00	0.00
ATOM	7496	CB	ALA	X	493	39.520	17.402	26.718	0.00	0.00
ATOM	7497	HB1	ALA	X	493	40.363	17.760	27.310	0.00	0.00
ATOM	7498	HB2	ALA	X	493	38.654	18.060	26.793	0.00	0.00
ATOM	7499	HB3	ALA	X	493	39.903	17.490	25.702	0.00	0.00
ATOM	7500	C	ALA	X	493	38.505	16.106	28.590	0.00	0.00
ATOM	7501	O	ALA	X	493	37.381	16.429	28.693	0.00	0.00
ATOM	7502	N	PRO	X	494	39.323	15.855	29.666	0.00	0.00
ATOM	7503	CD	PRO	X	494	40.743	15.464	29.633	0.00	0.00
ATOM	7504	HD2	PRO	X	494	41.286	16.092	28.927	0.00	0.00
ATOM	7505	HD3	PRO	X	494	40.877	14.421	29.345	0.00	0.00
ATOM	7506	CG	PRO	X	494	41.307	15.752	31.040	0.00	0.00
ATOM	7507	HG2	PRO	X	494	41.454	16.822	31.188	0.00	0.00
ATOM	7508	HG3	PRO	X	494	42.212	15.216	31.326	0.00	0.00
ATOM	7509	CB	PRO	X	494	40.016	15.384	31.847	0.00	0.00
ATOM	7510	HB2	PRO	X	494	40.112	15.860	32.822	0.00	0.00
ATOM	7511	HB3	PRO	X	494	39.896	14.301	31.894	0.00	0.00
ATOM	7512	CA	PRO	X	494	38.843	15.920	31.025	0.00	0.00
ATOM	7513	HA	PRO	X	494	38.069	15.165	31.164	0.00	0.00
ATOM	7514	C	PRO	X	494	38.324	17.343	31.414	0.00	0.00
ATOM	7515	O	PRO	X	494	38.606	18.349	30.817	0.00	0.00
ATOM	7516	N	GLN	X	495	37.476	17.357	32.438	0.00	0.00
ATOM	7517	H	GLN	X	495	37.239	16.475	32.869	0.00	0.00
ATOM	7518	CA	GLN	X	495	36.828	18.552	32.947	0.00	0.00
ATOM	7519	HA	GLN	X	495	37.284	19.387	32.416	0.00	0.00
ATOM	7520	CB	GLN	X	495	35.269	18.379	32.595	0.00	0.00
ATOM	7521	HB2	GLN	X	495	34.981	17.482	33.144	0.00	0.00
ATOM	7522	HB3	GLN	X	495	34.760	19.226	33.055	0.00	0.00
ATOM	7523	CG	GLN	X	495	35.069	18.188	31.092	0.00	0.00
ATOM	7524	HG2	GLN	X	495	35.336	17.203	30.710	0.00	0.00
ATOM	7525	HG3	GLN	X	495	33.995	18.099	30.933	0.00	0.00
ATOM	7526	CD	GLN	X	495	35.461	19.319	30.206	0.00	0.00
ATOM	7527	OE1	GLN	X	495	35.397	20.510	30.529	0.00	0.00
ATOM	7528	NE2	GLN	X	495	36.123	18.991	29.107	0.00	0.00
ATOM	7529	HE21	GLN	X	495	36.455	19.719	28.490	0.00	0.00
ATOM	7530	HE22	GLN	X	495	36.363	18.035	28.887	0.00	0.00
ATOM	7531	C	GLN	X	495	36.988	18.898	34.416	0.00	0.00
ATOM	7532	O	GLN	X	495	37.341	17.998	35.230	0.00	0.00
ATOM	7533	N	TRP	X	496	36.809	20.212	34.661	0.00	0.00
ATOM	7534	H	TRP	X	496	36.568	20.902	33.964	0.00	0.00
ATOM	7535	CA	TRP	X	496	37.179	20.820	35.929	0.00	0.00
ATOM	7536	HA	TRP	X	496	38.037	20.296	36.352	0.00	0.00
ATOM	7537	CB	TRP	X	496	37.563	22.326	35.732	0.00	0.00
ATOM	7538	HB2	TRP	X	496	38.412	22.242	35.055	0.00	0.00
ATOM	7539	HB3	TRP	X	496	36.690	22.735	35.224	0.00	0.00
ATOM	7540	CG	TRP	X	496	37.997	23.331	36.802	0.00	0.00
ATOM	7541	CD1	TRP	X	496	37.936	23.125	38.107	0.00	0.00
ATOM	7542	HD1	TRP	X	496	37.703	22.126	38.443	0.00	0.00
ATOM	7543	NE1	TRP	X	496	38.588	24.139	38.769	0.00	0.00
ATOM	7544	HE1	TRP	X	496	38.691	24.128	39.774	0.00	0.00
ATOM	7545	CE2	TRP	X	496	38.933	25.171	37.947	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	39.318	26.497	38.210	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	39.539	26.780	39.228	0.00	0.00
ATOM	7548	CH2	TRP	X	496	39.544	27.296	37.122	0.00	0.00
ATOM	7549	HH2	TRP	X	496	39.738	28.349	37.259	0.00	0.00

ATOM	7550	CZ3	TRP	X	496	39.378	26.815	35.781	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	39.634	27.508	34.993	0.00	0.00
ATOM	7552	CE3	TRP	X	496	38.826	25.530	35.573	0.00	0.00
ATOM	7553	HE3	TRP	X	496	38.630	25.359	34.525	0.00	0.00
ATOM	7554	CD2	TRP	X	496	38.504	24.689	36.691	0.00	0.00
ATOM	7555	C	TRP	X	496	35.919	20.738	36.851	0.00	0.00
ATOM	7556	O	TRP	X	496	34.905	21.439	36.601	0.00	0.00
ATOM	7557	N	PRO	X	497	35.951	19.964	37.954	0.00	0.00
ATOM	7558	CD	PRO	X	497	37.097	19.234	38.401	0.00	0.00
ATOM	7559	HD2	PRO	X	497	38.039	19.781	38.358	0.00	0.00
ATOM	7560	HD3	PRO	X	497	37.146	18.363	37.748	0.00	0.00
ATOM	7561	CG	PRO	X	497	36.852	18.832	39.874	0.00	0.00
ATOM	7562	HG2	PRO	X	497	37.069	19.625	40.589	0.00	0.00
ATOM	7563	HG3	PRO	X	497	37.200	17.838	40.155	0.00	0.00
ATOM	7564	CB	PRO	X	497	35.321	18.654	39.690	0.00	0.00
ATOM	7565	HB2	PRO	X	497	34.730	18.585	40.603	0.00	0.00
ATOM	7566	HB3	PRO	X	497	35.200	17.813	39.007	0.00	0.00
ATOM	7567	CA	PRO	X	497	34.934	19.927	38.951	0.00	0.00
ATOM	7568	HA	PRO	X	497	33.987	19.847	38.417	0.00	0.00
ATOM	7569	C	PRO	X	497	34.781	21.116	39.928	0.00	0.00
ATOM	7570	O	PRO	X	497	35.751	21.838	40.167	0.00	0.00
ATOM	7571	N	PRO	X	498	33.594	21.382	40.476	0.00	0.00
ATOM	7572	CD	PRO	X	498	32.367	20.629	40.298	0.00	0.00
ATOM	7573	HD2	PRO	X	498	32.600	19.570	40.184	0.00	0.00
ATOM	7574	HD3	PRO	X	498	31.797	21.005	39.448	0.00	0.00
ATOM	7575	CG	PRO	X	498	31.560	20.807	41.618	0.00	0.00
ATOM	7576	HG2	PRO	X	498	31.748	20.019	42.348	0.00	0.00
ATOM	7577	HG3	PRO	X	498	30.488	20.817	41.421	0.00	0.00
ATOM	7578	CB	PRO	X	498	32.026	22.157	42.123	0.00	0.00
ATOM	7579	HB2	PRO	X	498	31.921	22.103	43.207	0.00	0.00
ATOM	7580	HB3	PRO	X	498	31.413	22.923	41.649	0.00	0.00
ATOM	7581	CA	PRO	X	498	33.528	22.246	41.648	0.00	0.00
ATOM	7582	HA	PRO	X	498	33.792	23.210	41.211	0.00	0.00
ATOM	7583	C	PRO	X	498	34.528	21.906	42.818	0.00	0.00
ATOM	7584	O	PRO	X	498	34.721	20.742	43.111	0.00	0.00
ATOM	7585	N	TYR	X	499	34.951	22.970	43.464	0.00	0.00
ATOM	7586	H	TYR	X	499	34.645	23.869	43.120	0.00	0.00
ATOM	7587	CA	TYR	X	499	35.497	22.936	44.794	0.00	0.00
ATOM	7588	HA	TYR	X	499	36.191	22.114	44.966	0.00	0.00
ATOM	7589	CB	TYR	X	499	36.262	24.261	44.975	0.00	0.00
ATOM	7590	HB2	TYR	X	499	37.022	24.298	44.195	0.00	0.00
ATOM	7591	HB3	TYR	X	499	35.544	25.069	44.844	0.00	0.00
ATOM	7592	CG	TYR	X	499	36.881	24.360	46.372	0.00	0.00
ATOM	7593	CD1	TYR	X	499	36.173	24.821	47.513	0.00	0.00
ATOM	7594	HD1	TYR	X	499	35.137	25.105	47.407	0.00	0.00
ATOM	7595	CE1	TYR	X	499	36.787	24.913	48.790	0.00	0.00
ATOM	7596	HE1	TYR	X	499	36.156	25.252	49.599	0.00	0.00
ATOM	7597	CZ	TYR	X	499	38.193	24.737	48.893	0.00	0.00
ATOM	7598	OH	TYR	X	499	38.918	25.144	49.971	0.00	0.00
ATOM	7599	HH	TYR	X	499	38.380	25.652	50.583	0.00	0.00
ATOM	7600	CE2	TYR	X	499	38.913	24.282	47.783	0.00	0.00
ATOM	7601	HE2	TYR	X	499	39.977	24.133	47.890	0.00	0.00
ATOM	7602	CD2	TYR	X	499	38.201	23.996	46.575	0.00	0.00
ATOM	7603	HD2	TYR	X	499	38.803	23.633	45.754	0.00	0.00
ATOM	7604	C	TYR	X	499	34.342	22.866	45.781	0.00	0.00
ATOM	7605	O	TYR	X	499	33.389	23.631	45.668	0.00	0.00
ATOM	7606	N	THR	X	500	34.461	22.170	46.874	0.00	0.00
ATOM	7607	H	THR	X	500	35.323	21.692	47.090	0.00	0.00
ATOM	7608	CA	THR	X	500	33.537	21.978	47.976	0.00	0.00
ATOM	7609	HA	THR	X	500	32.878	22.841	48.068	0.00	0.00
ATOM	7610	CB	THR	X	500	32.625	20.739	47.790	0.00	0.00
ATOM	7611	HB	THR	X	500	32.071	20.511	48.701	0.00	0.00
ATOM	7612	CG2	THR	X	500	31.659	21.003	46.593	0.00	0.00
ATOM	7613	HG21	THR	X	500	30.952	20.177	46.663	0.00	0.00
ATOM	7614	HG22	THR	X	500	32.212	20.888	45.661	0.00	0.00
ATOM	7615	HG23	THR	X	500	31.213	21.996	46.642	0.00	0.00
ATOM	7616	OG1	THR	X	500	33.403	19.602	47.333	0.00	0.00

ATOM	7617	HG1	THR	X	500	32.905	18.810	47.547	0.00	0.00
ATOM	7618	C	THR	X	500	34.219	21.755	49.273	0.00	0.00
ATOM	7619	O	THR	X	500	35.380	21.298	49.307	0.00	0.00
ATOM	7620	N	ALA	X	501	33.656	22.136	50.445	0.00	0.00
ATOM	7621	H	ALA	X	501	32.712	22.484	50.359	0.00	0.00
ATOM	7622	CA	ALA	X	501	34.333	22.333	51.786	0.00	0.00
ATOM	7623	HA	ALA	X	501	35.164	23.018	51.620	0.00	0.00
ATOM	7624	CB	ALA	X	501	33.246	22.985	52.655	0.00	0.00
ATOM	7625	HB1	ALA	X	501	33.049	23.961	52.211	0.00	0.00
ATOM	7626	HB2	ALA	X	501	33.693	23.069	53.646	0.00	0.00
ATOM	7627	HB3	ALA	X	501	32.299	22.446	52.651	0.00	0.00
ATOM	7628	C	ALA	X	501	34.998	21.143	52.528	0.00	0.00
ATOM	7629	O	ALA	X	501	35.651	21.329	53.542	0.00	0.00
ATOM	7630	N	GLY	X	502	34.795	19.911	51.952	0.00	0.00
ATOM	7631	H	GLY	X	502	34.174	19.946	51.156	0.00	0.00
ATOM	7632	CA	GLY	X	502	35.205	18.645	52.471	0.00	0.00
ATOM	7633	HA2	GLY	X	502	35.563	18.775	53.493	0.00	0.00
ATOM	7634	HA3	GLY	X	502	34.424	17.898	52.329	0.00	0.00
ATOM	7635	C	GLY	X	502	36.247	18.084	51.575	0.00	0.00
ATOM	7636	O	GLY	X	502	37.441	17.979	51.931	0.00	0.00
ATOM	7637	N	ALA	X	503	35.839	17.687	50.382	0.00	0.00
ATOM	7638	H	ALA	X	503	34.840	17.712	50.241	0.00	0.00
ATOM	7639	CA	ALA	X	503	36.719	17.177	49.326	0.00	0.00
ATOM	7640	HA	ALA	X	503	37.009	16.193	49.697	0.00	0.00
ATOM	7641	CB	ALA	X	503	35.795	16.853	48.094	0.00	0.00
ATOM	7642	HB1	ALA	X	503	35.196	15.953	48.235	0.00	0.00
ATOM	7643	HB2	ALA	X	503	36.405	16.829	47.191	0.00	0.00
ATOM	7644	HB3	ALA	X	503	35.013	17.607	48.010	0.00	0.00
ATOM	7645	C	ALA	X	503	37.889	18.165	48.990	0.00	0.00
ATOM	7646	O	ALA	X	503	39.056	17.738	48.743	0.00	0.00
ATOM	7647	N	GLN	X	504	37.582	19.459	48.730	0.00	0.00
ATOM	7648	H	GLN	X	504	36.587	19.601	48.831	0.00	0.00
ATOM	7649	CA	GLN	X	504	38.470	20.584	48.658	0.00	0.00
ATOM	7650	HA	GLN	X	504	37.819	21.451	48.543	0.00	0.00
ATOM	7651	CB	GLN	X	504	39.297	20.717	50.026	0.00	0.00
ATOM	7652	HB2	GLN	X	504	39.840	19.776	50.109	0.00	0.00
ATOM	7653	HB3	GLN	X	504	40.023	21.525	49.928	0.00	0.00
ATOM	7654	CG	GLN	X	504	38.507	21.185	51.260	0.00	0.00
ATOM	7655	HG2	GLN	X	504	38.234	22.213	51.020	0.00	0.00
ATOM	7656	HG3	GLN	X	504	37.623	20.578	51.456	0.00	0.00
ATOM	7657	CD	GLN	X	504	39.286	21.238	52.574	0.00	0.00
ATOM	7658	OE1	GLN	X	504	40.522	21.307	52.673	0.00	0.00
ATOM	7659	NE2	GLN	X	504	38.614	21.342	53.656	0.00	0.00
ATOM	7660	HE21	GLN	X	504	39.048	21.068	54.526	0.00	0.00
ATOM	7661	HE22	GLN	X	504	37.621	21.519	53.697	0.00	0.00
ATOM	7662	C	GLN	X	504	39.314	20.511	47.396	0.00	0.00
ATOM	7663	O	GLN	X	504	40.560	20.552	47.437	0.00	0.00
ATOM	7664	N	GLN	X	505	38.660	20.271	46.225	0.00	0.00
ATOM	7665	H	GLN	X	505	37.650	20.260	46.219	0.00	0.00
ATOM	7666	CA	GLN	X	505	39.384	19.988	44.970	0.00	0.00
ATOM	7667	HA	GLN	X	505	40.305	19.489	45.271	0.00	0.00
ATOM	7668	CB	GLN	X	505	38.528	18.908	44.204	0.00	0.00
ATOM	7669	HB2	GLN	X	505	37.484	19.206	44.108	0.00	0.00
ATOM	7670	HB3	GLN	X	505	38.948	18.954	43.200	0.00	0.00
ATOM	7671	CG	GLN	X	505	38.647	17.466	44.675	0.00	0.00
ATOM	7672	HG2	GLN	X	505	39.662	17.200	44.380	0.00	0.00
ATOM	7673	HG3	GLN	X	505	38.449	17.448	45.747	0.00	0.00
ATOM	7674	CD	GLN	X	505	37.507	16.576	44.148	0.00	0.00
ATOM	7675	OE1	GLN	X	505	36.282	16.731	44.320	0.00	0.00
ATOM	7676	NE2	GLN	X	505	37.945	15.577	43.403	0.00	0.00
ATOM	7677	HE21	GLN	X	505	37.137	15.086	43.049	0.00	0.00
ATOM	7678	HE22	GLN	X	505	38.930	15.368	43.317	0.00	0.00
ATOM	7679	C	GLN	X	505	39.777	21.129	44.013	0.00	0.00
ATOM	7680	O	GLN	X	505	38.925	21.992	43.776	0.00	0.00
ATOM	7681	N	TYR	X	506	41.017	21.173	43.521	0.00	0.00
ATOM	7682	H	TYR	X	506	41.594	20.380	43.762	0.00	0.00
ATOM	7683	CA	TYR	X	506	41.615	22.283	42.814	0.00	0.00

ATOM	7684	HA	TYR	X	506	40.762	22.817	42.396	0.00	0.00
ATOM	7685	CB	TYR	X	506	42.301	23.240	43.798	0.00	0.00
ATOM	7686	HB2	TYR	X	506	42.496	24.208	43.337	0.00	0.00
ATOM	7687	HB3	TYR	X	506	41.602	23.400	44.619	0.00	0.00
ATOM	7688	CG	TYR	X	506	43.629	22.747	44.376	0.00	0.00
ATOM	7689	CD1	TYR	X	506	43.641	21.700	45.339	0.00	0.00
ATOM	7690	HD1	TYR	X	506	42.690	21.248	45.579	0.00	0.00
ATOM	7691	CE1	TYR	X	506	44.834	21.342	45.947	0.00	0.00
ATOM	7692	HE1	TYR	X	506	44.875	20.602	46.733	0.00	0.00
ATOM	7693	CZ	TYR	X	506	46.079	21.936	45.580	0.00	0.00
ATOM	7694	OH	TYR	X	506	47.242	21.382	45.993	0.00	0.00
ATOM	7695	HH	TYR	X	506	47.012	20.584	46.476	0.00	0.00
ATOM	7696	CE2	TYR	X	506	46.046	22.958	44.620	0.00	0.00
ATOM	7697	HE2	TYR	X	506	47.020	23.261	44.265	0.00	0.00
ATOM	7698	CD2	TYR	X	506	44.844	23.390	44.072	0.00	0.00
ATOM	7699	HD2	TYR	X	506	44.927	24.186	43.346	0.00	0.00
ATOM	7700	C	TYR	X	506	42.478	21.754	41.674	0.00	0.00
ATOM	7701	O	TYR	X	506	43.284	20.873	41.868	0.00	0.00
ATOM	7702	N	VAL	X	507	42.454	22.368	40.466	0.00	0.00
ATOM	7703	H	VAL	X	507	41.786	23.069	40.178	0.00	0.00
ATOM	7704	CA	VAL	X	507	42.970	21.650	39.254	0.00	0.00
ATOM	7705	HA	VAL	X	507	42.986	20.584	39.483	0.00	0.00
ATOM	7706	CB	VAL	X	507	42.110	21.883	37.999	0.00	0.00
ATOM	7707	HB	VAL	X	507	42.553	21.285	37.202	0.00	0.00
ATOM	7708	CG1	VAL	X	507	40.724	21.344	38.209	0.00	0.00
ATOM	7709	HG11	VAL	X	507	40.104	21.415	37.316	0.00	0.00
ATOM	7710	HG12	VAL	X	507	40.510	20.308	38.473	0.00	0.00
ATOM	7711	HG13	VAL	X	507	40.098	21.933	38.880	0.00	0.00
ATOM	7712	CG2	VAL	X	507	42.135	23.353	37.531	0.00	0.00
ATOM	7713	HG21	VAL	X	507	43.130	23.686	37.236	0.00	0.00
ATOM	7714	HG22	VAL	X	507	41.851	23.993	38.366	0.00	0.00
ATOM	7715	HG23	VAL	X	507	41.452	23.509	36.696	0.00	0.00
ATOM	7716	C	VAL	X	507	44.370	22.073	39.051	0.00	0.00
ATOM	7717	O	VAL	X	507	44.871	23.129	39.494	0.00	0.00
ATOM	7718	N	SER	X	508	45.107	21.204	38.383	0.00	0.00
ATOM	7719	H	SER	X	508	44.610	20.427	37.973	0.00	0.00
ATOM	7720	CA	SER	X	508	46.399	21.569	37.654	0.00	0.00
ATOM	7721	HA	SER	X	508	46.988	22.344	38.144	0.00	0.00
ATOM	7722	CB	SER	X	508	47.419	20.395	37.540	0.00	0.00
ATOM	7723	HB2	SER	X	508	46.861	19.570	37.096	0.00	0.00
ATOM	7724	HB3	SER	X	508	48.234	20.844	36.971	0.00	0.00
ATOM	7725	OG	SER	X	508	48.025	20.068	38.761	0.00	0.00
ATOM	7726	HG	SER	X	508	48.621	20.745	39.089	0.00	0.00
ATOM	7727	C	SER	X	508	46.211	22.271	36.317	0.00	0.00
ATOM	7728	O	SER	X	508	45.410	21.840	35.493	0.00	0.00
ATOM	7729	N	LEU	X	509	46.813	23.434	36.023	0.00	0.00
ATOM	7730	H	LEU	X	509	47.342	23.958	36.706	0.00	0.00
ATOM	7731	CA	LEU	X	509	46.726	24.042	34.699	0.00	0.00
ATOM	7732	HA	LEU	X	509	46.211	23.336	34.047	0.00	0.00
ATOM	7733	CB	LEU	X	509	46.044	25.412	34.640	0.00	0.00
ATOM	7734	HB2	LEU	X	509	46.731	26.081	35.159	0.00	0.00
ATOM	7735	HB3	LEU	X	509	46.057	25.740	33.601	0.00	0.00
ATOM	7736	CG	LEU	X	509	44.610	25.524	35.124	0.00	0.00
ATOM	7737	HG	LEU	X	509	44.668	25.243	36.175	0.00	0.00
ATOM	7738	CD1	LEU	X	509	44.090	26.993	35.126	0.00	0.00
ATOM	7739	HD11	LEU	X	509	44.898	27.590	35.549	0.00	0.00
ATOM	7740	HD12	LEU	X	509	43.177	27.073	35.717	0.00	0.00
ATOM	7741	HD13	LEU	X	509	43.985	27.277	34.079	0.00	0.00
ATOM	7742	CD2	LEU	X	509	43.632	24.554	34.380	0.00	0.00
ATOM	7743	HD21	LEU	X	509	43.950	24.272	33.376	0.00	0.00
ATOM	7744	HD22	LEU	X	509	43.686	23.589	34.885	0.00	0.00
ATOM	7745	HD23	LEU	X	509	42.627	24.918	34.594	0.00	0.00
ATOM	7746	C	LEU	X	509	48.131	24.094	34.144	0.00	0.00
ATOM	7747	O	LEU	X	509	48.984	24.747	34.772	0.00	0.00
ATOM	7748	N	ASP	X	510	48.326	23.388	33.067	0.00	0.00
ATOM	7749	H	ASP	X	510	47.523	22.939	32.651	0.00	0.00
ATOM	7750	CA	ASP	X	510	49.647	23.059	32.524	0.00	0.00

ATOM	7751	HA	ASP	X	510	50.270	23.944	32.398	0.00	0.00
ATOM	7752	CB	ASP	X	510	50.274	22.033	33.449	0.00	0.00
ATOM	7753	HB2	ASP	X	510	50.251	22.404	34.474	0.00	0.00
ATOM	7754	HB3	ASP	X	510	49.615	21.178	33.297	0.00	0.00
ATOM	7755	CG	ASP	X	510	51.646	21.495	33.109	0.00	0.00
ATOM	7756	OD1	ASP	X	510	51.787	20.228	33.100	0.00	0.00
ATOM	7757	OD2	ASP	X	510	52.503	22.268	32.563	0.00	0.00
ATOM	7758	C	ASP	X	510	49.570	22.383	31.152	0.00	0.00
ATOM	7759	O	ASP	X	510	48.513	21.915	30.767	0.00	0.00
ATOM	7760	N	LEU	X	511	50.616	22.122	30.413	0.00	0.00
ATOM	7761	H	LEU	X	511	51.480	22.512	30.761	0.00	0.00
ATOM	7762	CA	LEU	X	511	50.620	21.536	29.086	0.00	0.00
ATOM	7763	HA	LEU	X	511	49.930	22.159	28.516	0.00	0.00
ATOM	7764	CB	LEU	X	511	52.060	21.675	28.546	0.00	0.00
ATOM	7765	HB2	LEU	X	511	52.739	21.129	29.202	0.00	0.00
ATOM	7766	HB3	LEU	X	511	52.192	21.214	27.567	0.00	0.00
ATOM	7767	CG	LEU	X	511	52.637	23.118	28.460	0.00	0.00
ATOM	7768	HG	LEU	X	511	52.570	23.595	29.437	0.00	0.00
ATOM	7769	CD1	LEU	X	511	54.102	23.034	28.009	0.00	0.00
ATOM	7770	HD11	LEU	X	511	54.607	23.996	28.089	0.00	0.00
ATOM	7771	HD12	LEU	X	511	54.089	22.732	26.961	0.00	0.00
ATOM	7772	HD13	LEU	X	511	54.779	22.325	28.487	0.00	0.00
ATOM	7773	CD2	LEU	X	511	51.805	23.975	27.581	0.00	0.00
ATOM	7774	HD21	LEU	X	511	50.955	24.351	28.150	0.00	0.00
ATOM	7775	HD22	LEU	X	511	52.465	24.776	27.247	0.00	0.00
ATOM	7776	HD23	LEU	X	511	51.459	23.477	26.675	0.00	0.00
ATOM	7777	C	LEU	X	511	50.218	20.149	29.017	0.00	0.00
ATOM	7778	O	LEU	X	511	49.745	19.778	27.961	0.00	0.00
ATOM	7779	N	ARG	X	512	50.283	19.365	30.149	0.00	0.00
ATOM	7780	H	ARG	X	512	50.614	19.784	31.007	0.00	0.00
ATOM	7781	CA	ARG	X	512	49.600	18.015	30.249	0.00	0.00
ATOM	7782	HA	ARG	X	512	49.772	17.567	29.270	0.00	0.00
ATOM	7783	CB	ARG	X	512	50.176	17.125	31.392	0.00	0.00
ATOM	7784	HB2	ARG	X	512	49.957	16.081	31.168	0.00	0.00
ATOM	7785	HB3	ARG	X	512	51.245	17.315	31.492	0.00	0.00
ATOM	7786	CG	ARG	X	512	49.565	17.365	32.783	0.00	0.00
ATOM	7787	HG2	ARG	X	512	49.290	18.417	32.855	0.00	0.00
ATOM	7788	HG3	ARG	X	512	48.750	16.649	32.888	0.00	0.00
ATOM	7789	CD	ARG	X	512	50.662	17.063	33.851	0.00	0.00
ATOM	7790	HD2	ARG	X	512	50.998	16.047	33.645	0.00	0.00
ATOM	7791	HD3	ARG	X	512	51.542	17.663	33.622	0.00	0.00
ATOM	7792	NE	ARG	X	512	50.197	17.177	35.247	0.00	0.00
ATOM	7793	HE	ARG	X	512	50.100	16.309	35.755	0.00	0.00
ATOM	7794	CZ	ARG	X	512	50.244	18.256	36.030	0.00	0.00
ATOM	7795	NH1	ARG	X	512	50.754	19.430	35.695	0.00	0.00
ATOM	7796	HH11	ARG	X	512	51.173	19.603	34.792	0.00	0.00
ATOM	7797	HH12	ARG	X	512	50.823	20.174	36.374	0.00	0.00
ATOM	7798	NH2	ARG	X	512	49.805	18.059	37.238	0.00	0.00
ATOM	7799	HH21	ARG	X	512	49.419	17.149	37.443	0.00	0.00
ATOM	7800	HH22	ARG	X	512	49.735	18.817	37.901	0.00	0.00
ATOM	7801	C	ARG	X	512	48.041	18.067	30.387	0.00	0.00
ATOM	7802	O	ARG	X	512	47.664	19.040	30.989	0.00	0.00
ATOM	7803	N	PRO	X	513	47.172	17.119	29.980	0.00	0.00
ATOM	7804	CD	PRO	X	513	47.430	16.132	28.980	0.00	0.00
ATOM	7805	HD2	PRO	X	513	47.893	15.248	29.418	0.00	0.00
ATOM	7806	HD3	PRO	X	513	48.007	16.564	28.162	0.00	0.00
ATOM	7807	CG	PRO	X	513	46.063	15.627	28.501	0.00	0.00
ATOM	7808	HG2	PRO	X	513	45.901	14.558	28.363	0.00	0.00
ATOM	7809	HG3	PRO	X	513	45.827	15.970	27.493	0.00	0.00
ATOM	7810	CB	PRO	X	513	45.014	16.154	29.435	0.00	0.00
ATOM	7811	HB2	PRO	X	513	44.645	15.386	30.115	0.00	0.00
ATOM	7812	HB3	PRO	X	513	44.140	16.462	28.860	0.00	0.00
ATOM	7813	CA	PRO	X	513	45.704	17.228	30.213	0.00	0.00
ATOM	7814	HA	PRO	X	513	45.354	18.135	29.719	0.00	0.00
ATOM	7815	C	PRO	X	513	45.331	17.329	31.689	0.00	0.00
ATOM	7816	O	PRO	X	513	46.158	17.060	32.567	0.00	0.00
ATOM	7817	N	LEU	X	514	44.098	17.816	31.917	0.00	0.00

ATOM	7818	H	LEU	X	514	43.571	18.057	31.090	0.00	0.00
ATOM	7819	CA	LEU	X	514	43.681	18.420	33.148	0.00	0.00
ATOM	7820	HA	LEU	X	514	44.306	19.244	33.489	0.00	0.00
ATOM	7821	CB	LEU	X	514	42.315	18.986	33.053	0.00	0.00
ATOM	7822	HB2	LEU	X	514	42.250	19.627	32.174	0.00	0.00
ATOM	7823	HB3	LEU	X	514	41.721	18.109	32.797	0.00	0.00
ATOM	7824	CG	LEU	X	514	41.699	19.762	34.205	0.00	0.00
ATOM	7825	HG	LEU	X	514	42.068	19.325	35.133	0.00	0.00
ATOM	7826	CD1	LEU	X	514	42.215	21.172	34.169	0.00	0.00
ATOM	7827	HD11	LEU	X	514	43.299	21.091	34.260	0.00	0.00
ATOM	7828	HD12	LEU	X	514	41.743	21.678	35.011	0.00	0.00
ATOM	7829	HD13	LEU	X	514	41.980	21.682	33.236	0.00	0.00
ATOM	7830	CD2	LEU	X	514	40.155	19.719	34.261	0.00	0.00
ATOM	7831	HD21	LEU	X	514	39.725	20.420	34.976	0.00	0.00
ATOM	7832	HD22	LEU	X	514	39.745	19.808	33.255	0.00	0.00
ATOM	7833	HD23	LEU	X	514	39.772	18.782	34.664	0.00	0.00
ATOM	7834	C	LEU	X	514	43.798	17.269	34.226	0.00	0.00
ATOM	7835	O	LEU	X	514	43.286	16.132	34.105	0.00	0.00
ATOM	7836	N	GLU	X	515	44.590	17.646	35.289	0.00	0.00
ATOM	7837	H	GLU	X	515	44.923	18.599	35.326	0.00	0.00
ATOM	7838	CA	GLU	X	515	44.568	16.908	36.549	0.00	0.00
ATOM	7839	HA	GLU	X	515	43.973	16.003	36.425	0.00	0.00
ATOM	7840	CB	GLU	X	515	45.984	16.386	36.917	0.00	0.00
ATOM	7841	HB2	GLU	X	515	46.673	17.214	37.082	0.00	0.00
ATOM	7842	HB3	GLU	X	515	45.788	15.937	37.891	0.00	0.00
ATOM	7843	CG	GLU	X	515	46.515	15.420	35.822	0.00	0.00
ATOM	7844	HG2	GLU	X	515	45.775	14.626	35.721	0.00	0.00
ATOM	7845	HG3	GLU	X	515	46.670	16.052	34.948	0.00	0.00
ATOM	7846	CD	GLU	X	515	47.751	14.810	36.277	0.00	0.00
ATOM	7847	OE1	GLU	X	515	48.056	13.755	35.768	0.00	0.00
ATOM	7848	OE2	GLU	X	515	48.577	15.480	36.919	0.00	0.00
ATOM	7849	C	GLU	X	515	43.797	17.704	37.691	0.00	0.00
ATOM	7850	O	GLU	X	515	43.692	18.865	37.620	0.00	0.00
ATOM	7851	N	VAL	X	516	43.316	16.973	38.688	0.00	0.00
ATOM	7852	H	VAL	X	516	43.374	15.965	38.696	0.00	0.00
ATOM	7853	CA	VAL	X	516	42.509	17.409	39.826	0.00	0.00
ATOM	7854	HA	VAL	X	516	42.441	18.495	39.891	0.00	0.00
ATOM	7855	CB	VAL	X	516	41.116	16.747	39.848	0.00	0.00
ATOM	7856	HB	VAL	X	516	41.364	15.698	40.003	0.00	0.00
ATOM	7857	CG1	VAL	X	516	40.338	17.265	41.028	0.00	0.00
ATOM	7858	HG11	VAL	X	516	40.394	18.337	40.837	0.00	0.00
ATOM	7859	HG12	VAL	X	516	39.286	17.074	40.817	0.00	0.00
ATOM	7860	HG13	VAL	X	516	40.694	16.920	41.999	0.00	0.00
ATOM	7861	CG2	VAL	X	516	40.399	16.991	38.468	0.00	0.00
ATOM	7862	HG21	VAL	X	516	40.848	16.462	37.627	0.00	0.00
ATOM	7863	HG22	VAL	X	516	40.319	18.061	38.272	0.00	0.00
ATOM	7864	HG23	VAL	X	516	39.396	16.582	38.582	0.00	0.00
ATOM	7865	C	VAL	X	516	43.248	17.033	41.141	0.00	0.00
ATOM	7866	O	VAL	X	516	43.644	15.879	41.414	0.00	0.00
ATOM	7867	N	ARG	X	517	43.488	18.071	42.028	0.00	0.00
ATOM	7868	H	ARG	X	517	43.120	18.975	41.768	0.00	0.00
ATOM	7869	CA	ARG	X	517	44.126	17.870	43.386	0.00	0.00
ATOM	7870	HA	ARG	X	517	44.474	16.838	43.365	0.00	0.00
ATOM	7871	CB	ARG	X	517	45.225	18.933	43.523	0.00	0.00
ATOM	7872	HB2	ARG	X	517	44.826	19.930	43.334	0.00	0.00
ATOM	7873	HB3	ARG	X	517	45.697	18.880	44.504	0.00	0.00
ATOM	7874	CG	ARG	X	517	46.415	18.809	42.526	0.00	0.00
ATOM	7875	HG2	ARG	X	517	46.772	17.784	42.630	0.00	0.00
ATOM	7876	HG3	ARG	X	517	46.111	18.995	41.496	0.00	0.00
ATOM	7877	CD	ARG	X	517	47.482	19.875	42.893	0.00	0.00
ATOM	7878	HD2	ARG	X	517	47.045	20.865	43.026	0.00	0.00
ATOM	7879	HD3	ARG	X	517	47.954	19.653	43.850	0.00	0.00
ATOM	7880	NE	ARG	X	517	48.569	19.941	41.848	0.00	0.00
ATOM	7881	HE	ARG	X	517	48.676	20.808	41.341	0.00	0.00
ATOM	7882	CZ	ARG	X	517	49.611	19.098	41.730	0.00	0.00
ATOM	7883	NH1	ARG	X	517	49.687	17.984	42.452	0.00	0.00
ATOM	7884	HH11	ARG	X	517	48.927	17.578	42.978	0.00	0.00

ATOM	7885	HH12	ARG	X	517	50.426	17.315	42.286	0.00	0.00
ATOM	7886	NH2	ARG	X	517	50.629	19.297	40.992	0.00	0.00
ATOM	7887	HH21	ARG	X	517	50.562	20.120	40.412	0.00	0.00
ATOM	7888	HH22	ARG	X	517	51.396	18.647	40.893	0.00	0.00
ATOM	7889	C	ARG	X	517	43.087	18.068	44.491	0.00	0.00
ATOM	7890	O	ARG	X	517	42.056	18.614	44.208	0.00	0.00
ATOM	7891	N	ARG	X	518	43.416	17.511	45.712	0.00	0.00
ATOM	7892	H	ARG	X	518	44.350	17.221	45.964	0.00	0.00
ATOM	7893	CA	ARG	X	518	42.499	17.714	46.908	0.00	0.00
ATOM	7894	HA	ARG	X	518	41.670	18.371	46.645	0.00	0.00
ATOM	7895	CB	ARG	X	518	41.944	16.312	47.330	0.00	0.00
ATOM	7896	HB2	ARG	X	518	42.723	15.842	47.931	0.00	0.00
ATOM	7897	HB3	ARG	X	518	41.078	16.502	47.964	0.00	0.00
ATOM	7898	CG	ARG	X	518	41.424	15.309	46.301	0.00	0.00
ATOM	7899	HG2	ARG	X	518	40.447	15.746	46.095	0.00	0.00
ATOM	7900	HG3	ARG	X	518	41.931	15.220	45.340	0.00	0.00
ATOM	7901	CD	ARG	X	518	41.111	13.962	46.823	0.00	0.00
ATOM	7902	HD2	ARG	X	518	40.492	14.059	47.715	0.00	0.00
ATOM	7903	HD3	ARG	X	518	40.574	13.383	46.072	0.00	0.00
ATOM	7904	NE	ARG	X	518	42.280	13.136	47.235	0.00	0.00
ATOM	7905	HE	ARG	X	518	43.173	13.385	46.836	0.00	0.00
ATOM	7906	CZ	ARG	X	518	42.284	12.113	48.124	0.00	0.00
ATOM	7907	NH1	ARG	X	518	41.119	11.556	48.587	0.00	0.00
ATOM	7908	HH11	ARG	X	518	40.269	11.942	48.201	0.00	0.00
ATOM	7909	HH12	ARG	X	518	41.169	10.653	49.036	0.00	0.00
ATOM	7910	NH2	ARG	X	518	43.443	11.630	48.501	0.00	0.00
ATOM	7911	HH21	ARG	X	518	44.285	11.970	48.061	0.00	0.00
ATOM	7912	HH22	ARG	X	518	43.601	11.060	49.320	0.00	0.00
ATOM	7913	C	ARG	X	518	43.225	18.326	48.150	0.00	0.00
ATOM	7914	O	ARG	X	518	44.467	18.223	48.269	0.00	0.00
ATOM	7915	N	GLY	X	519	42.545	19.001	49.046	0.00	0.00
ATOM	7916	H	GLY	X	519	41.551	18.999	48.865	0.00	0.00
ATOM	7917	CA	GLY	X	519	43.065	19.347	50.361	0.00	0.00
ATOM	7918	HA2	GLY	X	519	42.263	19.383	51.099	0.00	0.00
ATOM	7919	HA3	GLY	X	519	43.746	18.574	50.716	0.00	0.00
ATOM	7920	C	GLY	X	519	43.730	20.706	50.478	0.00	0.00
ATOM	7921	O	GLY	X	519	44.730	20.834	51.178	0.00	0.00
ATOM	7922	N	LEU	X	520	43.274	21.734	49.700	0.00	0.00
ATOM	7923	H	LEU	X	520	42.476	21.549	49.109	0.00	0.00
ATOM	7924	CA	LEU	X	520	43.919	22.996	49.361	0.00	0.00
ATOM	7925	HA	LEU	X	520	44.728	22.882	48.640	0.00	0.00
ATOM	7926	CB	LEU	X	520	42.798	23.907	48.669	0.00	0.00
ATOM	7927	HB2	LEU	X	520	42.361	23.355	47.836	0.00	0.00
ATOM	7928	HB3	LEU	X	520	41.900	24.037	49.272	0.00	0.00
ATOM	7929	CG	LEU	X	520	43.310	25.307	48.221	0.00	0.00
ATOM	7930	HG	LEU	X	520	43.687	25.852	49.087	0.00	0.00
ATOM	7931	CD1	LEU	X	520	44.431	25.218	47.211	0.00	0.00
ATOM	7932	HD11	LEU	X	520	45.291	24.928	47.815	0.00	0.00
ATOM	7933	HD12	LEU	X	520	44.649	26.197	46.785	0.00	0.00
ATOM	7934	HD13	LEU	X	520	44.354	24.659	46.279	0.00	0.00
ATOM	7935	CD2	LEU	X	520	42.320	26.083	47.447	0.00	0.00
ATOM	7936	HD21	LEU	X	520	41.350	26.177	47.935	0.00	0.00
ATOM	7937	HD22	LEU	X	520	42.563	27.099	47.137	0.00	0.00
ATOM	7938	HD23	LEU	X	520	42.057	25.501	46.563	0.00	0.00
ATOM	7939	C	LEU	X	520	44.509	23.757	50.608	0.00	0.00
ATOM	7940	O	LEU	X	520	43.780	24.386	51.347	0.00	0.00
ATOM	7941	N	ARG	X	521	45.796	23.472	50.859	0.00	0.00
ATOM	7942	H	ARG	X	521	46.250	22.748	50.321	0.00	0.00
ATOM	7943	CA	ARG	X	521	46.734	24.013	51.805	0.00	0.00
ATOM	7944	HA	ARG	X	521	47.708	23.562	51.617	0.00	0.00
ATOM	7945	CB	ARG	X	521	47.162	25.428	51.299	0.00	0.00
ATOM	7946	HB2	ARG	X	521	47.252	25.569	50.222	0.00	0.00
ATOM	7947	HB3	ARG	X	521	46.461	26.181	51.657	0.00	0.00
ATOM	7948	CG	ARG	X	521	48.545	25.820	51.789	0.00	0.00
ATOM	7949	HG2	ARG	X	521	48.596	26.867	51.489	0.00	0.00
ATOM	7950	HG3	ARG	X	521	48.636	25.759	52.873	0.00	0.00
ATOM	7951	CD	ARG	X	521	49.754	25.149	51.092	0.00	0.00

ATOM	7952	HD2	ARG	X	521	49.646	24.071	51.207	0.00	0.00
ATOM	7953	HD3	ARG	X	521	49.730	25.392	50.030	0.00	0.00
ATOM	7954	NE	ARG	X	521	50.984	25.553	51.696	0.00	0.00
ATOM	7955	HE	ARG	X	521	50.981	26.533	51.938	0.00	0.00
ATOM	7956	CZ	ARG	X	521	52.120	24.887	52.051	0.00	0.00
ATOM	7957	NH1	ARG	X	521	52.388	23.663	51.788	0.00	0.00
ATOM	7958	HH11	ARG	X	521	51.917	23.232	51.005	0.00	0.00
ATOM	7959	HH12	ARG	X	521	53.151	23.121	52.167	0.00	0.00
ATOM	7960	NH2	ARG	X	521	53.113	25.524	52.743	0.00	0.00
ATOM	7961	HH21	ARG	X	521	52.968	26.404	53.218	0.00	0.00
ATOM	7962	HH22	ARG	X	521	53.971	25.047	52.984	0.00	0.00
ATOM	7963	C	ARG	X	521	46.356	23.782	53.292	0.00	0.00
ATOM	7964	O	ARG	X	521	47.058	24.308	54.104	0.00	0.00
ATOM	7965	N	ALA	X	522	45.216	23.245	53.602	0.00	0.00
ATOM	7966	H	ALA	X	522	44.739	22.683	52.911	0.00	0.00
ATOM	7967	CA	ALA	X	522	44.543	23.305	54.962	0.00	0.00
ATOM	7968	HA	ALA	X	522	44.229	24.329	55.163	0.00	0.00
ATOM	7969	CB	ALA	X	522	43.337	22.484	54.909	0.00	0.00
ATOM	7970	HB1	ALA	X	522	42.700	22.618	55.784	0.00	0.00
ATOM	7971	HB2	ALA	X	522	43.546	21.434	54.708	0.00	0.00
ATOM	7972	HB3	ALA	X	522	42.713	22.769	54.062	0.00	0.00
ATOM	7973	C	ALA	X	522	45.519	22.905	56.188	0.00	0.00
ATOM	7974	O	ALA	X	522	45.563	23.713	57.139	0.00	0.00
ATOM	7975	N	GLN	X	523	46.240	21.767	56.012	0.00	0.00
ATOM	7976	H	GLN	X	523	46.110	21.273	55.141	0.00	0.00
ATOM	7977	CA	GLN	X	523	47.102	21.265	57.039	0.00	0.00
ATOM	7978	HA	GLN	X	523	46.479	21.121	57.922	0.00	0.00
ATOM	7979	CB	GLN	X	523	47.555	19.778	56.558	0.00	0.00
ATOM	7980	HB2	GLN	X	523	46.695	19.133	56.375	0.00	0.00
ATOM	7981	HB3	GLN	X	523	48.002	19.716	55.566	0.00	0.00
ATOM	7982	CG	GLN	X	523	48.452	19.137	57.607	0.00	0.00
ATOM	7983	HG2	GLN	X	523	49.368	19.716	57.721	0.00	0.00
ATOM	7984	HG3	GLN	X	523	47.886	19.199	58.536	0.00	0.00
ATOM	7985	CD	GLN	X	523	48.837	17.615	57.504	0.00	0.00
ATOM	7986	OE1	GLN	X	523	48.117	16.668	57.296	0.00	0.00
ATOM	7987	NE2	GLN	X	523	50.114	17.396	57.736	0.00	0.00
ATOM	7988	HE21	GLN	X	523	50.532	16.485	57.615	0.00	0.00
ATOM	7989	HE22	GLN	X	523	50.695	18.186	57.980	0.00	0.00
ATOM	7990	C	GLN	X	523	48.358	22.139	57.321	0.00	0.00
ATOM	7991	O	GLN	X	523	48.828	22.159	58.460	0.00	0.00
ATOM	7992	N	ALA	X	524	48.816	22.919	56.410	0.00	0.00
ATOM	7993	H	ALA	X	524	48.317	22.871	55.533	0.00	0.00
ATOM	7994	CA	ALA	X	524	49.794	23.941	56.653	0.00	0.00
ATOM	7995	HA	ALA	X	524	50.400	23.472	57.429	0.00	0.00
ATOM	7996	CB	ALA	X	524	50.703	24.204	55.373	0.00	0.00
ATOM	7997	HB1	ALA	X	524	50.095	24.377	54.485	0.00	0.00
ATOM	7998	HB2	ALA	X	524	51.236	23.333	54.991	0.00	0.00
ATOM	7999	HB3	ALA	X	524	51.336	25.082	55.503	0.00	0.00
ATOM	8000	C	ALA	X	524	49.207	25.232	57.277	0.00	0.00
ATOM	8001	O	ALA	X	524	49.674	25.705	58.288	0.00	0.00
ATOM	8002	N	CYX	X	525	48.163	25.864	56.687	0.00	0.00
ATOM	8003	H	CYX	X	525	47.874	25.420	55.827	0.00	0.00
ATOM	8004	CA	CYX	X	525	47.495	27.106	57.225	0.00	0.00
ATOM	8005	HA	CYX	X	525	48.118	27.999	57.168	0.00	0.00
ATOM	8006	CB	CYX	X	525	46.381	27.463	56.250	0.00	0.00
ATOM	8007	HB2	CYX	X	525	45.576	26.731	56.321	0.00	0.00
ATOM	8008	HB3	CYX	X	525	45.940	28.420	56.529	0.00	0.00
ATOM	8009	SG	CYX	X	525	47.007	27.748	54.520	0.00	0.00
ATOM	8010	C	CYX	X	525	46.947	26.983	58.648	0.00	0.00
ATOM	8011	O	CYX	X	525	46.528	27.965	59.176	0.00	0.00
ATOM	8012	N	ALA	X	526	46.724	25.777	59.217	0.00	0.00
ATOM	8013	H	ALA	X	526	46.980	24.949	58.698	0.00	0.00
ATOM	8014	CA	ALA	X	526	46.321	25.562	60.600	0.00	0.00
ATOM	8015	HA	ALA	X	526	45.367	25.986	60.911	0.00	0.00
ATOM	8016	CB	ALA	X	526	46.211	24.034	60.736	0.00	0.00
ATOM	8017	HB1	ALA	X	526	45.605	23.688	59.899	0.00	0.00
ATOM	8018	HB2	ALA	X	526	45.658	23.823	61.651	0.00	0.00

ATOM	8019	HB3	ALA	X	526	47.206	23.592	60.683	0.00	0.00
ATOM	8020	C	ALA	X	526	47.344	26.173	61.563	0.00	0.00
ATOM	8021	O	ALA	X	526	46.897	26.835	62.445	0.00	0.00
ATOM	8022	N	PHE	X	527	48.671	26.066	61.432	0.00	0.00
ATOM	8023	H	PHE	X	527	49.040	25.446	60.725	0.00	0.00
ATOM	8024	CA	PHE	X	527	49.645	26.864	62.176	0.00	0.00
ATOM	8025	HA	PHE	X	527	49.680	26.559	63.222	0.00	0.00
ATOM	8026	CB	PHE	X	527	51.007	26.606	61.512	0.00	0.00
ATOM	8027	HB2	PHE	X	527	51.162	25.535	61.647	0.00	0.00
ATOM	8028	HB3	PHE	X	527	50.979	26.754	60.432	0.00	0.00
ATOM	8029	CG	PHE	X	527	52.256	27.378	62.085	0.00	0.00
ATOM	8030	CD1	PHE	X	527	52.765	27.040	63.328	0.00	0.00
ATOM	8031	HD1	PHE	X	527	52.277	26.252	63.882	0.00	0.00
ATOM	8032	CE1	PHE	X	527	53.727	27.751	64.015	0.00	0.00
ATOM	8033	HE1	PHE	X	527	54.126	27.571	65.002	0.00	0.00
ATOM	8034	CZ	PHE	X	527	54.433	28.712	63.278	0.00	0.00
ATOM	8035	HZ	PHE	X	527	55.235	29.289	63.715	0.00	0.00
ATOM	8036	CE2	PHE	X	527	54.042	29.032	61.944	0.00	0.00
ATOM	8037	HE2	PHE	X	527	54.482	29.824	61.357	0.00	0.00
ATOM	8038	CD2	PHE	X	527	52.882	28.392	61.396	0.00	0.00
ATOM	8039	HD2	PHE	X	527	52.648	28.710	60.390	0.00	0.00
ATOM	8040	C	PHE	X	527	49.298	28.368	62.009	0.00	0.00
ATOM	8041	O	PHE	X	527	49.177	29.126	62.967	0.00	0.00
ATOM	8042	N	TRP	X	528	49.214	28.881	60.760	0.00	0.00
ATOM	8043	H	TRP	X	528	49.518	28.259	60.025	0.00	0.00
ATOM	8044	CA	TRP	X	528	49.069	30.301	60.440	0.00	0.00
ATOM	8045	HA	TRP	X	528	49.839	30.894	60.933	0.00	0.00
ATOM	8046	CB	TRP	X	528	49.141	30.606	59.004	0.00	0.00
ATOM	8047	HB2	TRP	X	528	48.370	30.072	58.448	0.00	0.00
ATOM	8048	HB3	TRP	X	528	48.944	31.665	58.838	0.00	0.00
ATOM	8049	CG	TRP	X	528	50.462	30.325	58.242	0.00	0.00
ATOM	8050	CD1	TRP	X	528	50.692	29.500	57.168	0.00	0.00
ATOM	8051	HD1	TRP	X	528	49.938	28.906	56.672	0.00	0.00
ATOM	8052	NE1	TRP	X	528	51.970	29.651	56.791	0.00	0.00
ATOM	8053	HE1	TRP	X	528	52.287	29.213	55.938	0.00	0.00
ATOM	8054	CE2	TRP	X	528	52.676	30.579	57.498	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	54.016	31.044	57.471	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	54.622	30.666	56.660	0.00	0.00
ATOM	8057	CH2	TRP	X	528	54.451	31.923	58.452	0.00	0.00
ATOM	8058	HH2	TRP	X	528	55.440	32.356	58.424	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	53.540	32.459	59.358	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	53.924	33.122	60.120	0.00	0.00
ATOM	8061	CE3	TRP	X	528	52.266	31.900	59.544	0.00	0.00
ATOM	8062	HE3	TRP	X	528	51.656	32.309	60.335	0.00	0.00
ATOM	8063	CD2	TRP	X	528	51.737	30.987	58.496	0.00	0.00
ATOM	8064	C	TRP	X	528	47.769	30.943	61.082	0.00	0.00
ATOM	8065	O	TRP	X	528	47.646	32.141	61.306	0.00	0.00
ATOM	8066	N	ASN	X	529	46.741	30.060	61.263	0.00	0.00
ATOM	8067	H	ASN	X	529	46.897	29.081	61.071	0.00	0.00
ATOM	8068	CA	ASN	X	529	45.457	30.496	61.765	0.00	0.00
ATOM	8069	HA	ASN	X	529	45.305	31.542	61.498	0.00	0.00
ATOM	8070	CB	ASN	X	529	44.285	29.592	61.207	0.00	0.00
ATOM	8071	HB2	ASN	X	529	44.121	29.815	60.153	0.00	0.00
ATOM	8072	HB3	ASN	X	529	44.532	28.550	61.412	0.00	0.00
ATOM	8073	CG	ASN	X	529	42.996	29.982	61.993	0.00	0.00
ATOM	8074	OD1	ASN	X	529	42.446	29.227	62.764	0.00	0.00
ATOM	8075	ND2	ASN	X	529	42.465	31.105	61.669	0.00	0.00
ATOM	8076	HD21	ASN	X	529	41.565	31.282	62.091	0.00	0.00
ATOM	8077	HD22	ASN	X	529	42.705	31.776	60.954	0.00	0.00
ATOM	8078	C	ASN	X	529	45.575	30.352	63.287	0.00	0.00
ATOM	8079	O	ASN	X	529	45.001	31.291	63.972	0.00	0.00
ATOM	8080	N	ARG	X	530	46.096	29.282	63.819	0.00	0.00
ATOM	8081	H	ARG	X	530	46.409	28.546	63.203	0.00	0.00
ATOM	8082	CA	ARG	X	530	46.040	28.950	65.213	0.00	0.00
ATOM	8083	HA	ARG	X	530	45.105	29.287	65.660	0.00	0.00
ATOM	8084	CB	ARG	X	530	45.917	27.462	65.426	0.00	0.00
ATOM	8085	HB2	ARG	X	530	46.729	26.950	64.909	0.00	0.00

ATOM	8086	HB3	ARG	X	530	46.052	27.199	66.475	0.00	0.00
ATOM	8087	CG	ARG	X	530	44.565	26.997	64.957	0.00	0.00
ATOM	8088	HG2	ARG	X	530	43.739	27.046	65.666	0.00	0.00
ATOM	8089	HG3	ARG	X	530	44.242	27.567	64.086	0.00	0.00
ATOM	8090	CD	ARG	X	530	44.701	25.516	64.543	0.00	0.00
ATOM	8091	HD2	ARG	X	530	45.415	25.360	63.735	0.00	0.00
ATOM	8092	HD3	ARG	X	530	45.057	24.969	65.416	0.00	0.00
ATOM	8093	NE	ARG	X	530	43.442	25.020	64.039	0.00	0.00
ATOM	8094	HE	ARG	X	530	42.642	25.637	64.038	0.00	0.00
ATOM	8095	CZ	ARG	X	530	43.253	23.764	63.607	0.00	0.00
ATOM	8096	NH1	ARG	X	530	44.130	22.848	63.618	0.00	0.00
ATOM	8097	HH11	ARG	X	530	44.954	23.056	64.163	0.00	0.00
ATOM	8098	HH12	ARG	X	530	43.843	21.897	63.432	0.00	0.00
ATOM	8099	NH2	ARG	X	530	42.098	23.363	63.232	0.00	0.00
ATOM	8100	HH21	ARG	X	530	41.292	23.971	63.263	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.978	22.376	63.053	0.00	0.00
ATOM	8102	C	ARG	X	530	47.234	29.576	66.005	0.00	0.00
ATOM	8103	O	ARG	X	530	47.186	30.616	66.565	0.00	0.00
ATOM	8104	N	PHE	X	531	48.364	28.892	65.988	0.00	0.00
ATOM	8105	H	PHE	X	531	48.442	27.986	65.547	0.00	0.00
ATOM	8106	CA	PHE	X	531	49.510	29.060	66.927	0.00	0.00
ATOM	8107	HA	PHE	X	531	49.117	28.899	67.931	0.00	0.00
ATOM	8108	CB	PHE	X	531	50.477	27.876	66.677	0.00	0.00
ATOM	8109	HB2	PHE	X	531	49.889	26.987	66.907	0.00	0.00
ATOM	8110	HB3	PHE	X	531	50.771	27.864	65.627	0.00	0.00
ATOM	8111	CG	PHE	X	531	51.672	27.884	67.637	0.00	0.00
ATOM	8112	CD1	PHE	X	531	52.830	28.603	67.329	0.00	0.00
ATOM	8113	HD1	PHE	X	531	52.977	29.059	66.361	0.00	0.00
ATOM	8114	CE1	PHE	X	531	53.866	28.786	68.246	0.00	0.00
ATOM	8115	HE1	PHE	X	531	54.721	29.354	67.909	0.00	0.00
ATOM	8116	CZ	PHE	X	531	53.854	28.247	69.523	0.00	0.00
ATOM	8117	HZ	PHE	X	531	54.660	28.369	70.232	0.00	0.00
ATOM	8118	CE2	PHE	X	531	52.629	27.679	69.924	0.00	0.00
ATOM	8119	HE2	PHE	X	531	52.504	27.345	70.944	0.00	0.00
ATOM	8120	CD2	PHE	X	531	51.555	27.496	69.005	0.00	0.00
ATOM	8121	HD2	PHE	X	531	50.671	27.032	69.416	0.00	0.00
ATOM	8122	C	PHE	X	531	50.247	30.382	66.866	0.00	0.00
ATOM	8123	O	PHE	X	531	50.639	30.921	67.906	0.00	0.00
ATOM	8124	N	LEU	X	532	50.515	30.852	65.651	0.00	0.00
ATOM	8125	H	LEU	X	532	50.060	30.389	64.878	0.00	0.00
ATOM	8126	CA	LEU	X	532	51.403	31.971	65.358	0.00	0.00
ATOM	8127	HA	LEU	X	532	52.252	31.891	66.037	0.00	0.00
ATOM	8128	CB	LEU	X	532	51.969	31.838	63.890	0.00	0.00
ATOM	8129	HB2	LEU	X	532	52.354	30.820	63.839	0.00	0.00
ATOM	8130	HB3	LEU	X	532	51.155	31.815	63.166	0.00	0.00
ATOM	8131	CG	LEU	X	532	53.052	32.801	63.376	0.00	0.00
ATOM	8132	HG	LEU	X	532	53.570	32.257	62.585	0.00	0.00
ATOM	8133	CD1	LEU	X	532	52.585	34.174	62.854	0.00	0.00
ATOM	8134	HD11	LEU	X	532	53.453	34.717	62.481	0.00	0.00
ATOM	8135	HD12	LEU	X	532	52.165	34.745	63.681	0.00	0.00
ATOM	8136	HD13	LEU	X	532	51.858	34.059	62.050	0.00	0.00
ATOM	8137	CD2	LEU	X	532	54.183	33.001	64.330	0.00	0.00
ATOM	8138	HD21	LEU	X	532	54.940	33.720	64.018	0.00	0.00
ATOM	8139	HD22	LEU	X	532	53.795	33.397	65.268	0.00	0.00
ATOM	8140	HD23	LEU	X	532	54.544	31.995	64.542	0.00	0.00
ATOM	8141	C	LEU	X	532	50.742	33.332	65.738	0.00	0.00
ATOM	8142	O	LEU	X	532	51.332	34.076	66.481	0.00	0.00
ATOM	8143	N	PRO	X	533	49.489	33.619	65.290	0.00	0.00
ATOM	8144	CD	PRO	X	533	48.798	32.884	64.231	0.00	0.00
ATOM	8145	HD2	PRO	X	533	48.751	31.821	64.467	0.00	0.00
ATOM	8146	HD3	PRO	X	533	49.257	33.095	63.265	0.00	0.00
ATOM	8147	CG	PRO	X	533	47.421	33.531	64.346	0.00	0.00
ATOM	8148	HG2	PRO	X	533	46.817	33.153	65.172	0.00	0.00
ATOM	8149	HG3	PRO	X	533	46.689	33.314	63.568	0.00	0.00
ATOM	8150	CB	PRO	X	533	47.654	35.004	64.700	0.00	0.00
ATOM	8151	HB2	PRO	X	533	46.752	35.361	65.198	0.00	0.00
ATOM	8152	HB3	PRO	X	533	47.836	35.570	63.786	0.00	0.00

ATOM	8153	CA	PRO	X	533	48.824	34.886	65.636	0.00	0.00
ATOM	8154	HA	PRO	X	533	49.474	35.743	65.458	0.00	0.00
ATOM	8155	C	PRO	X	533	48.443	34.936	67.054	0.00	0.00
ATOM	8156	O	PRO	X	533	48.656	35.908	67.703	0.00	0.00
ATOM	8157	N	LYS	X	534	48.209	33.770	67.683	0.00	0.00
ATOM	8158	H	LYS	X	534	48.118	32.959	67.087	0.00	0.00
ATOM	8159	CA	LYS	X	534	47.961	33.684	69.099	0.00	0.00
ATOM	8160	HA	LYS	X	534	47.254	34.500	69.251	0.00	0.00
ATOM	8161	CB	LYS	X	534	47.247	32.387	69.263	0.00	0.00
ATOM	8162	HB2	LYS	X	534	46.367	32.349	68.620	0.00	0.00
ATOM	8163	HB3	LYS	X	534	47.912	31.550	69.048	0.00	0.00
ATOM	8164	CG	LYS	X	534	46.628	32.140	70.673	0.00	0.00
ATOM	8165	HG2	LYS	X	534	47.413	32.078	71.427	0.00	0.00
ATOM	8166	HG3	LYS	X	534	46.036	33.007	70.967	0.00	0.00
ATOM	8167	CD	LYS	X	534	45.753	30.889	70.599	0.00	0.00
ATOM	8168	HD2	LYS	X	534	45.272	30.652	71.548	0.00	0.00
ATOM	8169	HD3	LYS	X	534	44.982	31.000	69.836	0.00	0.00
ATOM	8170	CE	LYS	X	534	46.451	29.583	70.116	0.00	0.00
ATOM	8171	HE2	LYS	X	534	46.680	29.838	69.081	0.00	0.00
ATOM	8172	HE3	LYS	X	534	47.347	29.312	70.675	0.00	0.00
ATOM	8173	NZ	LYS	X	534	45.586	28.382	70.140	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	45.116	28.136	71.000	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	44.850	28.469	69.454	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	46.180	27.596	69.915	0.00	0.00
ATOM	8177	C	LYS	X	534	49.168	33.986	70.013	0.00	0.00
ATOM	8178	O	LYS	X	534	48.977	34.333	71.149	0.00	0.00
ATOM	8179	N	LEU	X	535	50.408	33.685	69.535	0.00	0.00
ATOM	8180	H	LEU	X	535	50.446	33.309	68.598	0.00	0.00
ATOM	8181	CA	LEU	X	535	51.666	33.964	70.151	0.00	0.00
ATOM	8182	HA	LEU	X	535	51.577	33.691	71.203	0.00	0.00
ATOM	8183	CB	LEU	X	535	52.758	33.065	69.443	0.00	0.00
ATOM	8184	HB2	LEU	X	535	52.352	32.055	69.501	0.00	0.00
ATOM	8185	HB3	LEU	X	535	52.740	33.330	68.386	0.00	0.00
ATOM	8186	CG	LEU	X	535	54.178	33.121	70.121	0.00	0.00
ATOM	8187	HG	LEU	X	535	54.468	34.146	70.352	0.00	0.00
ATOM	8188	CD1	LEU	X	535	54.266	32.318	71.393	0.00	0.00
ATOM	8189	HD11	LEU	X	535	55.257	32.439	71.830	0.00	0.00
ATOM	8190	HD12	LEU	X	535	53.916	31.305	71.192	0.00	0.00
ATOM	8191	HD13	LEU	X	535	53.665	32.879	72.108	0.00	0.00
ATOM	8192	CD2	LEU	X	535	55.242	32.598	69.139	0.00	0.00
ATOM	8193	HD21	LEU	X	535	55.266	31.512	69.051	0.00	0.00
ATOM	8194	HD22	LEU	X	535	55.153	33.012	68.134	0.00	0.00
ATOM	8195	HD23	LEU	X	535	56.220	32.911	69.504	0.00	0.00
ATOM	8196	C	LEU	X	535	52.016	35.493	70.114	0.00	0.00
ATOM	8197	O	LEU	X	535	52.420	36.084	71.159	0.00	0.00
ATOM	8198	N	LEU	X	536	51.691	36.125	68.974	0.00	0.00
ATOM	8199	H	LEU	X	536	51.375	35.545	68.210	0.00	0.00
ATOM	8200	CA	LEU	X	536	51.732	37.567	68.712	0.00	0.00
ATOM	8201	HA	LEU	X	536	52.676	38.024	69.008	0.00	0.00
ATOM	8202	CB	LEU	X	536	51.512	37.722	67.230	0.00	0.00
ATOM	8203	HB2	LEU	X	536	50.679	37.165	66.802	0.00	0.00
ATOM	8204	HB3	LEU	X	536	51.359	38.775	66.993	0.00	0.00
ATOM	8205	CG	LEU	X	536	52.714	37.228	66.426	0.00	0.00
ATOM	8206	HG	LEU	X	536	52.897	36.173	66.632	0.00	0.00
ATOM	8207	CD1	LEU	X	536	52.555	37.415	64.897	0.00	0.00
ATOM	8208	HD11	LEU	X	536	52.509	38.446	64.547	0.00	0.00
ATOM	8209	HD12	LEU	X	536	51.622	36.993	64.522	0.00	0.00
ATOM	8210	HD13	LEU	X	536	53.341	36.860	64.385	0.00	0.00
ATOM	8211	CD2	LEU	X	536	54.018	37.852	66.761	0.00	0.00
ATOM	8212	HD21	LEU	X	536	54.815	37.654	66.045	0.00	0.00
ATOM	8213	HD22	LEU	X	536	53.782	38.898	66.960	0.00	0.00
ATOM	8214	HD23	LEU	X	536	54.428	37.428	67.678	0.00	0.00
ATOM	8215	C	LEU	X	536	50.683	38.313	69.507	0.00	0.00
ATOM	8216	O	LEU	X	536	50.937	39.448	69.973	0.00	0.00
ATOM	8217	N	SER	X	537	49.525	37.773	69.747	0.00	0.00
ATOM	8218	H	SER	X	537	49.323	36.922	69.243	0.00	0.00
ATOM	8219	CA	SER	X	537	48.506	38.404	70.610	0.00	0.00

ATOM	8220	HA	SER	X	537	48.662	39.477	70.726	0.00	0.00
ATOM	8221	CB	SER	X	537	47.142	38.179	70.046	0.00	0.00
ATOM	8222	HB2	SER	X	537	46.585	38.592	70.887	0.00	0.00
ATOM	8223	HB3	SER	X	537	46.996	38.847	69.198	0.00	0.00
ATOM	8224	OG	SER	X	537	46.795	36.858	69.761	0.00	0.00
ATOM	8225	HG	SER	X	537	46.178	36.923	69.029	0.00	0.00
ATOM	8226	C	SER	X	537	48.787	37.929	72.067	0.00	0.00
ATOM	8227	O	SER	X	537	48.037	38.362	72.946	0.00	0.00
ATOM	8228	N	ALA	X	538	49.860	37.178	72.404	0.00	0.00
ATOM	8229	H	ALA	X	538	50.511	36.829	71.716	0.00	0.00
ATOM	8230	CA	ALA	X	538	50.108	36.723	73.786	0.00	0.00
ATOM	8231	HA	ALA	X	538	49.375	37.100	74.499	0.00	0.00
ATOM	8232	CB	ALA	X	538	50.306	35.227	73.849	0.00	0.00
ATOM	8233	HB1	ALA	X	538	51.153	35.057	73.184	0.00	0.00
ATOM	8234	HB2	ALA	X	538	49.336	34.783	73.625	0.00	0.00
ATOM	8235	HB3	ALA	X	538	50.540	34.823	74.834	0.00	0.00
ATOM	8236	C	ALA	X	538	51.309	37.553	74.341	0.00	0.00
ATOM	8237	O	ALA	X	538	51.483	37.518	75.578	0.00	0.00
ATOM	8238	N	THR	X	539	51.942	38.378	73.507	0.00	0.00
ATOM	8239	H	THR	X	539	51.668	38.382	72.534	0.00	0.00
ATOM	8240	CA	THR	X	539	52.963	39.337	73.869	0.00	0.00
ATOM	8241	HA	THR	X	539	53.850	38.847	74.269	0.00	0.00
ATOM	8242	CB	THR	X	539	53.348	40.295	72.643	0.00	0.00
ATOM	8243	HB	THR	X	539	52.617	41.082	72.453	0.00	0.00
ATOM	8244	CG2	THR	X	539	54.704	40.930	72.781	0.00	0.00
ATOM	8245	HG21	THR	X	539	55.479	40.182	72.944	0.00	0.00
ATOM	8246	HG22	THR	X	539	54.705	41.545	73.681	0.00	0.00
ATOM	8247	HG23	THR	X	539	54.990	41.496	71.895	0.00	0.00
ATOM	8248	OG1	THR	X	539	53.402	39.462	71.510	0.00	0.00
ATOM	8249	HG1	THR	X	539	52.807	39.893	70.891	0.00	0.00
ATOM	8250	C	THR	X	539	52.473	40.194	74.931	0.00	0.00
ATOM	8251	O	THR	X	539	51.526	40.984	74.723	0.00	0.00
ATOM	8252	OXT	THR	X	539	53.153	40.320	75.986	0.00	0.00

END

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1B41 Production MD Frame 2400
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CRYST1	82.066	82.066	82.066	90.00	90.00	90.00	P 1	1		
ATOM	1	N	ASP	X	1	32.124	46.291	8.533	0.00	0.00
ATOM	2	H1	ASP	X	1	31.766	45.590	9.166	0.00	0.00
ATOM	3	H2	ASP	X	1	33.048	46.475	8.897	0.00	0.00
ATOM	4	H3	ASP	X	1	32.023	45.952	7.587	0.00	0.00
ATOM	5	CA	ASP	X	1	31.295	47.537	8.597	0.00	0.00
ATOM	6	HA	ASP	X	1	31.836	48.260	7.987	0.00	0.00
ATOM	7	CB	ASP	X	1	29.958	47.327	8.006	0.00	0.00
ATOM	8	HB2	ASP	X	1	30.108	46.878	7.023	0.00	0.00
ATOM	9	HB3	ASP	X	1	29.397	46.553	8.530	0.00	0.00
ATOM	10	CG	ASP	X	1	29.039	48.478	7.789	0.00	0.00
ATOM	11	OD1	ASP	X	1	29.280	49.246	6.830	0.00	0.00
ATOM	12	OD2	ASP	X	1	28.027	48.504	8.470	0.00	0.00
ATOM	13	C	ASP	X	1	31.097	48.104	10.074	0.00	0.00
ATOM	14	O	ASP	X	1	31.789	49.041	10.360	0.00	0.00
ATOM	15	N	ALA	X	2	30.340	47.501	10.972	0.00	0.00
ATOM	16	H	ALA	X	2	29.787	46.692	10.728	0.00	0.00
ATOM	17	CA	ALA	X	2	30.001	48.098	12.290	0.00	0.00
ATOM	18	HA	ALA	X	2	30.440	49.086	12.427	0.00	0.00
ATOM	19	CB	ALA	X	2	28.470	48.363	12.247	0.00	0.00
ATOM	20	HB1	ALA	X	2	28.175	48.752	11.272	0.00	0.00
ATOM	21	HB2	ALA	X	2	28.124	49.020	13.045	0.00	0.00
ATOM	22	HB3	ALA	X	2	27.961	47.420	12.446	0.00	0.00
ATOM	23	C	ALA	X	2	30.394	47.296	13.569	0.00	0.00
ATOM	24	O	ALA	X	2	30.118	47.577	14.808	0.00	0.00
ATOM	25	N	GLU	X	3	31.187	46.261	13.340	0.00	0.00

ATOM	26	H	GLU	X	3	31.276	46.019	12.364	0.00	0.00
ATOM	27	CA	GLU	X	3	31.595	45.284	14.379	0.00	0.00
ATOM	28	HA	GLU	X	3	30.705	44.842	14.829	0.00	0.00
ATOM	29	CB	GLU	X	3	32.492	44.305	13.629	0.00	0.00
ATOM	30	HB2	GLU	X	3	33.360	44.740	13.135	0.00	0.00
ATOM	31	HB3	GLU	X	3	32.768	43.502	14.312	0.00	0.00
ATOM	32	CG	GLU	X	3	31.754	43.468	12.599	0.00	0.00
ATOM	33	HG2	GLU	X	3	32.171	42.463	12.658	0.00	0.00
ATOM	34	HG3	GLU	X	3	30.701	43.440	12.879	0.00	0.00
ATOM	35	CD	GLU	X	3	31.738	43.940	11.141	0.00	0.00
ATOM	36	OE1	GLU	X	3	31.201	43.320	10.167	0.00	0.00
ATOM	37	OE2	GLU	X	3	32.214	45.040	10.889	0.00	0.00
ATOM	38	C	GLU	X	3	32.460	45.883	15.517	0.00	0.00
ATOM	39	O	GLU	X	3	32.515	45.489	16.703	0.00	0.00
ATOM	40	N	LEU	X	4	33.137	47.069	15.259	0.00	0.00
ATOM	41	H	LEU	X	4	33.240	47.454	14.331	0.00	0.00
ATOM	42	CA	LEU	X	4	33.990	47.803	16.172	0.00	0.00
ATOM	43	HA	LEU	X	4	34.309	47.172	17.002	0.00	0.00
ATOM	44	CB	LEU	X	4	35.393	48.054	15.465	0.00	0.00
ATOM	45	HB2	LEU	X	4	35.183	48.604	14.548	0.00	0.00
ATOM	46	HB3	LEU	X	4	36.017	48.547	16.211	0.00	0.00
ATOM	47	CG	LEU	X	4	36.113	46.868	14.877	0.00	0.00
ATOM	48	HG	LEU	X	4	35.529	46.380	14.096	0.00	0.00
ATOM	49	CD1	LEU	X	4	37.318	47.501	14.123	0.00	0.00
ATOM	50	HD11	LEU	X	4	38.098	47.792	14.827	0.00	0.00
ATOM	51	HD12	LEU	X	4	36.945	48.332	13.524	0.00	0.00
ATOM	52	HD13	LEU	X	4	37.820	46.770	13.490	0.00	0.00
ATOM	53	CD2	LEU	X	4	36.503	45.861	15.983	0.00	0.00
ATOM	54	HD21	LEU	X	4	37.099	46.282	16.793	0.00	0.00
ATOM	55	HD22	LEU	X	4	35.639	45.284	16.310	0.00	0.00
ATOM	56	HD23	LEU	X	4	36.893	45.037	15.386	0.00	0.00
ATOM	57	C	LEU	X	4	33.396	49.086	16.719	0.00	0.00
ATOM	58	O	LEU	X	4	34.037	49.880	17.396	0.00	0.00
ATOM	59	N	LEU	X	5	32.169	49.429	16.265	0.00	0.00
ATOM	60	H	LEU	X	5	31.714	48.716	15.713	0.00	0.00
ATOM	61	CA	LEU	X	5	31.372	50.587	16.581	0.00	0.00
ATOM	62	HA	LEU	X	5	32.028	51.330	17.034	0.00	0.00
ATOM	63	CB	LEU	X	5	30.675	51.094	15.300	0.00	0.00
ATOM	64	HB2	LEU	X	5	30.152	50.267	14.820	0.00	0.00
ATOM	65	HB3	LEU	X	5	30.113	52.025	15.376	0.00	0.00
ATOM	66	CG	LEU	X	5	31.850	51.572	14.438	0.00	0.00
ATOM	67	HG	LEU	X	5	32.525	50.770	14.140	0.00	0.00
ATOM	68	CD1	LEU	X	5	31.287	52.080	13.141	0.00	0.00
ATOM	69	HD11	LEU	X	5	30.471	51.427	12.831	0.00	0.00
ATOM	70	HD12	LEU	X	5	32.048	52.159	12.365	0.00	0.00
ATOM	71	HD13	LEU	X	5	30.796	53.037	13.316	0.00	0.00
ATOM	72	CD2	LEU	X	5	32.692	52.738	15.037	0.00	0.00
ATOM	73	HD21	LEU	X	5	33.476	52.827	14.286	0.00	0.00
ATOM	74	HD22	LEU	X	5	32.228	53.725	15.031	0.00	0.00
ATOM	75	HD23	LEU	X	5	33.261	52.592	15.955	0.00	0.00
ATOM	76	C	LEU	X	5	30.432	50.189	17.627	0.00	0.00
ATOM	77	O	LEU	X	5	29.908	49.050	17.620	0.00	0.00
ATOM	78	N	VAL	X	6	30.088	51.063	18.597	0.00	0.00
ATOM	79	H	VAL	X	6	30.348	52.029	18.454	0.00	0.00
ATOM	80	CA	VAL	X	6	29.193	50.730	19.735	0.00	0.00
ATOM	81	HA	VAL	X	6	28.271	50.356	19.290	0.00	0.00
ATOM	82	CB	VAL	X	6	29.880	49.710	20.629	0.00	0.00
ATOM	83	HB	VAL	X	6	30.275	48.910	20.003	0.00	0.00
ATOM	84	CG1	VAL	X	6	31.089	50.393	21.292	0.00	0.00
ATOM	85	HG11	VAL	X	6	31.796	50.826	20.586	0.00	0.00
ATOM	86	HG12	VAL	X	6	30.857	51.150	22.042	0.00	0.00
ATOM	87	HG13	VAL	X	6	31.681	49.660	21.839	0.00	0.00
ATOM	88	CG2	VAL	X	6	28.985	49.083	21.663	0.00	0.00
ATOM	89	HG21	VAL	X	6	28.823	49.728	22.527	0.00	0.00
ATOM	90	HG22	VAL	X	6	29.402	48.132	21.994	0.00	0.00
ATOM	91	HG23	VAL	X	6	28.040	48.785	21.210	0.00	0.00
ATOM	92	C	VAL	X	6	28.775	51.993	20.576	0.00	0.00

ATOM	93	O	VAL	X	6	29.438	53.047	20.397	0.00	0.00
ATOM	94	N	THR	X	7	27.614	51.958	21.269	0.00	0.00
ATOM	95	H	THR	X	7	27.142	51.066	21.295	0.00	0.00
ATOM	96	CA	THR	X	7	27.071	53.019	22.093	0.00	0.00
ATOM	97	HA	THR	X	7	27.761	53.856	21.988	0.00	0.00
ATOM	98	CB	THR	X	7	25.643	53.410	21.720	0.00	0.00
ATOM	99	HB	THR	X	7	24.897	52.721	22.115	0.00	0.00
ATOM	100	CG2	THR	X	7	25.355	54.798	22.199	0.00	0.00
ATOM	101	HG21	THR	X	7	24.295	55.052	22.232	0.00	0.00
ATOM	102	HG22	THR	X	7	25.862	55.624	21.700	0.00	0.00
ATOM	103	HG23	THR	X	7	25.676	54.865	23.239	0.00	0.00
ATOM	104	OG1	THR	X	7	25.506	53.480	20.334	0.00	0.00
ATOM	105	HG1	THR	X	7	24.603	53.782	20.215	0.00	0.00
ATOM	106	C	THR	X	7	27.143	52.619	23.545	0.00	0.00
ATOM	107	O	THR	X	7	26.510	51.645	23.934	0.00	0.00
ATOM	108	N	VAL	X	8	27.730	53.495	24.373	0.00	0.00
ATOM	109	H	VAL	X	8	28.204	54.357	24.145	0.00	0.00
ATOM	110	CA	VAL	X	8	27.662	53.432	25.909	0.00	0.00
ATOM	111	HA	VAL	X	8	27.026	52.597	26.203	0.00	0.00
ATOM	112	CB	VAL	X	8	28.994	53.048	26.559	0.00	0.00
ATOM	113	HB	VAL	X	8	28.914	52.958	27.642	0.00	0.00
ATOM	114	CG1	VAL	X	8	29.593	51.708	25.995	0.00	0.00
ATOM	115	HG11	VAL	X	8	28.938	50.871	26.237	0.00	0.00
ATOM	116	HG12	VAL	X	8	29.776	51.696	24.921	0.00	0.00
ATOM	117	HG13	VAL	X	8	30.529	51.597	26.543	0.00	0.00
ATOM	118	CG2	VAL	X	8	29.941	54.148	26.287	0.00	0.00
ATOM	119	HG21	VAL	X	8	30.938	53.843	26.605	0.00	0.00
ATOM	120	HG22	VAL	X	8	29.694	54.964	26.965	0.00	0.00
ATOM	121	HG23	VAL	X	8	30.069	54.348	25.223	0.00	0.00
ATOM	122	C	VAL	X	8	26.983	54.661	26.459	0.00	0.00
ATOM	123	O	VAL	X	8	26.558	55.531	25.727	0.00	0.00
ATOM	124	N	ARG	X	9	26.670	54.671	27.752	0.00	0.00
ATOM	125	H	ARG	X	9	26.845	53.885	28.362	0.00	0.00
ATOM	126	CA	ARG	X	9	25.958	55.750	28.451	0.00	0.00
ATOM	127	HA	ARG	X	9	25.004	55.834	27.931	0.00	0.00
ATOM	128	CB	ARG	X	9	25.717	55.357	29.873	0.00	0.00
ATOM	129	HB2	ARG	X	9	25.211	54.397	29.780	0.00	0.00
ATOM	130	HB3	ARG	X	9	26.592	55.081	30.462	0.00	0.00
ATOM	131	CG	ARG	X	9	24.879	56.382	30.663	0.00	0.00
ATOM	132	HG2	ARG	X	9	25.552	57.239	30.706	0.00	0.00
ATOM	133	HG3	ARG	X	9	23.997	56.730	30.126	0.00	0.00
ATOM	134	CD	ARG	X	9	24.499	55.901	31.995	0.00	0.00
ATOM	135	HD2	ARG	X	9	23.952	54.969	31.850	0.00	0.00
ATOM	136	HD3	ARG	X	9	25.440	55.684	32.501	0.00	0.00
ATOM	137	NE	ARG	X	9	23.530	56.737	32.716	0.00	0.00
ATOM	138	HE	ARG	X	9	22.807	57.180	32.167	0.00	0.00
ATOM	139	CZ	ARG	X	9	23.513	57.061	33.983	0.00	0.00
ATOM	140	NH1	ARG	X	9	24.310	56.521	34.942	0.00	0.00
ATOM	141	HH11	ARG	X	9	24.736	55.616	34.799	0.00	0.00
ATOM	142	HH12	ARG	X	9	24.144	56.807	35.896	0.00	0.00
ATOM	143	NH2	ARG	X	9	22.779	58.066	34.418	0.00	0.00
ATOM	144	HH21	ARG	X	9	22.201	58.638	33.819	0.00	0.00
ATOM	145	HH22	ARG	X	9	22.901	58.471	35.335	0.00	0.00
ATOM	146	C	ARG	X	9	26.611	57.124	28.252	0.00	0.00
ATOM	147	O	ARG	X	9	25.913	58.132	28.163	0.00	0.00
ATOM	148	N	GLY	X	10	27.946	57.148	28.121	0.00	0.00
ATOM	149	H	GLY	X	10	28.463	56.325	28.395	0.00	0.00
ATOM	150	CA	GLY	X	10	28.740	58.358	27.688	0.00	0.00
ATOM	151	HA2	GLY	X	10	28.321	59.173	28.277	0.00	0.00
ATOM	152	HA3	GLY	X	10	29.799	58.246	27.917	0.00	0.00
ATOM	153	C	GLY	X	10	28.539	58.749	26.221	0.00	0.00
ATOM	154	O	GLY	X	10	28.525	59.940	25.950	0.00	0.00
ATOM	155	N	GLY	X	11	28.285	57.821	25.349	0.00	0.00
ATOM	156	H	GLY	X	11	28.259	56.875	25.700	0.00	0.00
ATOM	157	CA	GLY	X	11	28.068	58.030	23.924	0.00	0.00
ATOM	158	HA2	GLY	X	11	27.034	58.288	23.695	0.00	0.00
ATOM	159	HA3	GLY	X	11	28.687	58.878	23.632	0.00	0.00

ATOM	160	C	GLY	X	11	28.657	56.954	22.995	0.00	0.00
ATOM	161	O	GLY	X	11	28.841	55.797	23.465	0.00	0.00
ATOM	162	N	ARG	X	12	28.923	57.312	21.732	0.00	0.00
ATOM	163	H	ARG	X	12	28.632	58.222	21.407	0.00	0.00
ATOM	164	CA	ARG	X	12	29.443	56.371	20.718	0.00	0.00
ATOM	165	HA	ARG	X	12	29.104	55.365	20.962	0.00	0.00
ATOM	166	CB	ARG	X	12	29.007	56.810	19.326	0.00	0.00
ATOM	167	HB2	ARG	X	12	29.451	57.755	19.013	0.00	0.00
ATOM	168	HB3	ARG	X	12	29.444	56.040	18.690	0.00	0.00
ATOM	169	CG	ARG	X	12	27.495	56.738	19.013	0.00	0.00
ATOM	170	HG2	ARG	X	12	27.109	55.719	19.042	0.00	0.00
ATOM	171	HG3	ARG	X	12	26.919	57.416	19.643	0.00	0.00
ATOM	172	CD	ARG	X	12	27.368	57.197	17.566	0.00	0.00
ATOM	173	HD2	ARG	X	12	28.295	56.973	17.038	0.00	0.00
ATOM	174	HD3	ARG	X	12	26.586	56.644	17.044	0.00	0.00
ATOM	175	NE	ARG	X	12	27.142	58.664	17.327	0.00	0.00
ATOM	176	HE	ARG	X	12	27.856	59.089	16.754	0.00	0.00
ATOM	177	CZ	ARG	X	12	26.104	59.403	17.591	0.00	0.00
ATOM	178	NH1	ARG	X	12	25.156	58.925	18.365	0.00	0.00
ATOM	179	HH11	ARG	X	12	25.149	57.944	18.607	0.00	0.00
ATOM	180	HH12	ARG	X	12	24.448	59.544	18.734	0.00	0.00
ATOM	181	NH2	ARG	X	12	25.948	60.544	17.022	0.00	0.00
ATOM	182	HH21	ARG	X	12	26.661	60.915	16.411	0.00	0.00
ATOM	183	HH22	ARG	X	12	25.006	60.905	16.976	0.00	0.00
ATOM	184	C	ARG	X	12	30.966	56.241	20.814	0.00	0.00
ATOM	185	O	ARG	X	12	31.694	57.051	21.370	0.00	0.00
ATOM	186	N	LEU	X	13	31.474	55.100	20.315	0.00	0.00
ATOM	187	H	LEU	X	13	30.839	54.432	19.903	0.00	0.00
ATOM	188	CA	LEU	X	13	32.866	54.676	20.572	0.00	0.00
ATOM	189	HA	LEU	X	13	33.440	55.579	20.780	0.00	0.00
ATOM	190	CB	LEU	X	13	32.916	53.728	21.802	0.00	0.00
ATOM	191	HB2	LEU	X	13	32.083	53.032	21.710	0.00	0.00
ATOM	192	HB3	LEU	X	13	33.826	53.128	21.771	0.00	0.00
ATOM	193	CG	LEU	X	13	32.685	54.281	23.172	0.00	0.00
ATOM	194	HG	LEU	X	13	31.764	54.843	23.325	0.00	0.00
ATOM	195	CD1	LEU	X	13	32.676	53.138	24.222	0.00	0.00
ATOM	196	HD11	LEU	X	13	33.677	52.720	24.330	0.00	0.00
ATOM	197	HD12	LEU	X	13	31.875	52.444	23.967	0.00	0.00
ATOM	198	HD13	LEU	X	13	32.485	53.564	25.207	0.00	0.00
ATOM	199	CD2	LEU	X	13	33.823	55.303	23.486	0.00	0.00
ATOM	200	HD21	LEU	X	13	33.803	55.713	24.496	0.00	0.00
ATOM	201	HD22	LEU	X	13	34.845	54.932	23.420	0.00	0.00
ATOM	202	HD23	LEU	X	13	33.658	56.151	22.821	0.00	0.00
ATOM	203	C	LEU	X	13	33.502	53.948	19.391	0.00	0.00
ATOM	204	O	LEU	X	13	32.830	53.106	18.842	0.00	0.00
ATOM	205	N	ARG	X	14	34.799	54.103	19.121	0.00	0.00
ATOM	206	H	ARG	X	14	35.288	54.796	19.668	0.00	0.00
ATOM	207	CA	ARG	X	14	35.511	53.433	17.985	0.00	0.00
ATOM	208	HA	ARG	X	14	34.891	52.677	17.502	0.00	0.00
ATOM	209	CB	ARG	X	14	35.914	54.436	16.841	0.00	0.00
ATOM	210	HB2	ARG	X	14	34.966	54.919	16.605	0.00	0.00
ATOM	211	HB3	ARG	X	14	36.607	55.203	17.188	0.00	0.00
ATOM	212	CG	ARG	X	14	36.439	53.670	15.575	0.00	0.00
ATOM	213	HG2	ARG	X	14	37.427	53.274	15.809	0.00	0.00
ATOM	214	HG3	ARG	X	14	35.847	52.837	15.194	0.00	0.00
ATOM	215	CD	ARG	X	14	36.588	54.682	14.395	0.00	0.00
ATOM	216	HD2	ARG	X	14	35.683	55.281	14.292	0.00	0.00
ATOM	217	HD3	ARG	X	14	37.402	55.355	14.666	0.00	0.00
ATOM	218	NE	ARG	X	14	36.758	54.030	13.103	0.00	0.00
ATOM	219	HE	ARG	X	14	37.664	53.630	12.907	0.00	0.00
ATOM	220	CZ	ARG	X	14	35.997	54.110	12.007	0.00	0.00
ATOM	221	NH1	ARG	X	14	34.886	54.800	11.853	0.00	0.00
ATOM	222	HH11	ARG	X	14	34.734	55.553	12.508	0.00	0.00
ATOM	223	HH12	ARG	X	14	34.228	54.594	11.115	0.00	0.00
ATOM	224	NH2	ARG	X	14	36.434	53.443	10.983	0.00	0.00
ATOM	225	HH21	ARG	X	14	37.356	53.031	10.962	0.00	0.00
ATOM	226	HH22	ARG	X	14	35.845	53.331	10.170	0.00	0.00

ATOM	227	C	ARG	X	14	36.668	52.670	18.593	0.00	0.00
ATOM	228	O	ARG	X	14	37.685	53.249	18.918	0.00	0.00
ATOM	229	N	GLY	X	15	36.552	51.373	18.530	0.00	0.00
ATOM	230	H	GLY	X	15	35.821	51.020	17.929	0.00	0.00
ATOM	231	CA	GLY	X	15	37.582	50.358	18.877	0.00	0.00
ATOM	232	HA2	GLY	X	15	38.359	50.903	19.413	0.00	0.00
ATOM	233	HA3	GLY	X	15	37.117	49.556	19.451	0.00	0.00
ATOM	234	C	GLY	X	15	38.355	49.675	17.697	0.00	0.00
ATOM	235	O	GLY	X	15	38.204	50.237	16.660	0.00	0.00
ATOM	236	N	ILE	X	16	39.149	48.652	18.010	0.00	0.00
ATOM	237	H	ILE	X	16	39.082	48.279	18.946	0.00	0.00
ATOM	238	CA	ILE	X	16	40.090	48.008	17.106	0.00	0.00
ATOM	239	HA	ILE	X	16	39.856	48.302	16.083	0.00	0.00
ATOM	240	CB	ILE	X	16	41.587	48.308	17.502	0.00	0.00
ATOM	241	HB	ILE	X	16	42.227	47.559	17.036	0.00	0.00
ATOM	242	CG2	ILE	X	16	41.979	49.631	16.890	0.00	0.00
ATOM	243	HG21	ILE	X	16	41.611	49.600	15.865	0.00	0.00
ATOM	244	HG22	ILE	X	16	43.054	49.745	16.757	0.00	0.00
ATOM	245	HG23	ILE	X	16	41.705	50.483	17.513	0.00	0.00
ATOM	246	CG1	ILE	X	16	41.868	48.252	19.045	0.00	0.00
ATOM	247	HG12	ILE	X	16	41.708	49.263	19.420	0.00	0.00
ATOM	248	HG13	ILE	X	16	41.229	47.474	19.463	0.00	0.00
ATOM	249	CD1	ILE	X	16	43.287	47.825	19.339	0.00	0.00
ATOM	250	HD11	ILE	X	16	43.463	46.799	19.018	0.00	0.00
ATOM	251	HD12	ILE	X	16	43.491	47.947	20.403	0.00	0.00
ATOM	252	HD13	ILE	X	16	44.087	48.312	18.781	0.00	0.00
ATOM	253	C	ILE	X	16	39.959	46.455	17.017	0.00	0.00
ATOM	254	O	ILE	X	16	39.587	45.718	17.966	0.00	0.00
ATOM	255	N	ARG	X	17	40.326	45.893	15.833	0.00	0.00
ATOM	256	H	ARG	X	17	40.794	46.466	15.145	0.00	0.00
ATOM	257	CA	ARG	X	17	40.316	44.433	15.544	0.00	0.00
ATOM	258	HA	ARG	X	17	39.565	43.912	16.137	0.00	0.00
ATOM	259	CB	ARG	X	17	39.924	44.209	14.025	0.00	0.00
ATOM	260	HB2	ARG	X	17	39.111	44.881	13.750	0.00	0.00
ATOM	261	HB3	ARG	X	17	40.749	44.704	13.512	0.00	0.00
ATOM	262	CG	ARG	X	17	39.733	42.782	13.592	0.00	0.00
ATOM	263	HG2	ARG	X	17	40.599	42.190	13.889	0.00	0.00
ATOM	264	HG3	ARG	X	17	38.778	42.414	13.967	0.00	0.00
ATOM	265	CD	ARG	X	17	39.615	42.771	12.051	0.00	0.00
ATOM	266	HD2	ARG	X	17	38.976	43.614	11.790	0.00	0.00
ATOM	267	HD3	ARG	X	17	40.592	42.965	11.609	0.00	0.00
ATOM	268	NE	ARG	X	17	39.074	41.474	11.501	0.00	0.00
ATOM	269	HE	ARG	X	17	38.082	41.368	11.343	0.00	0.00
ATOM	270	CZ	ARG	X	17	39.844	40.451	11.082	0.00	0.00
ATOM	271	NH1	ARG	X	17	41.163	40.494	11.153	0.00	0.00
ATOM	272	HH11	ARG	X	17	41.658	41.270	11.567	0.00	0.00
ATOM	273	HH12	ARG	X	17	41.618	39.783	10.599	0.00	0.00
ATOM	274	NH2	ARG	X	17	39.267	39.533	10.490	0.00	0.00
ATOM	275	HH21	ARG	X	17	38.288	39.615	10.255	0.00	0.00
ATOM	276	HH22	ARG	X	17	39.782	38.696	10.257	0.00	0.00
ATOM	277	C	ARG	X	17	41.661	43.806	15.796	0.00	0.00
ATOM	278	O	ARG	X	17	42.706	44.488	15.587	0.00	0.00
ATOM	279	N	LEU	X	18	41.759	42.562	16.199	0.00	0.00
ATOM	280	H	LEU	X	18	40.900	42.061	16.376	0.00	0.00
ATOM	281	CA	LEU	X	18	42.946	41.876	16.639	0.00	0.00
ATOM	282	HA	LEU	X	18	43.842	42.462	16.436	0.00	0.00
ATOM	283	CB	LEU	X	18	42.806	41.645	18.108	0.00	0.00
ATOM	284	HB2	LEU	X	18	41.747	41.634	18.367	0.00	0.00
ATOM	285	HB3	LEU	X	18	43.260	40.731	18.492	0.00	0.00
ATOM	286	CG	LEU	X	18	43.292	42.852	18.944	0.00	0.00
ATOM	287	HG	LEU	X	18	42.733	43.723	18.604	0.00	0.00
ATOM	288	CD1	LEU	X	18	42.894	42.509	20.414	0.00	0.00
ATOM	289	HD11	LEU	X	18	43.313	43.320	21.011	0.00	0.00
ATOM	290	HD12	LEU	X	18	43.275	41.517	20.655	0.00	0.00
ATOM	291	HD13	LEU	X	18	41.810	42.540	20.531	0.00	0.00
ATOM	292	CD2	LEU	X	18	44.798	43.122	18.722	0.00	0.00
ATOM	293	HD21	LEU	X	18	45.158	43.996	19.265	0.00	0.00

ATOM	294	HD22	LEU	X	18	45.328	42.216	19.017	0.00	0.00
ATOM	295	HD23	LEU	X	18	45.057	43.390	17.698	0.00	0.00
ATOM	296	C	LEU	X	18	42.979	40.497	15.991	0.00	0.00
ATOM	297	O	LEU	X	18	42.167	39.655	16.414	0.00	0.00
ATOM	298	N	LYS	X	19	44.031	40.230	15.167	0.00	0.00
ATOM	299	H	LYS	X	19	44.610	40.999	14.862	0.00	0.00
ATOM	300	CA	LYS	X	19	44.509	38.893	14.846	0.00	0.00
ATOM	301	HA	LYS	X	19	43.709	38.276	14.437	0.00	0.00
ATOM	302	CB	LYS	X	19	45.579	39.047	13.753	0.00	0.00
ATOM	303	HB2	LYS	X	19	46.337	39.743	14.114	0.00	0.00
ATOM	304	HB3	LYS	X	19	46.081	38.099	13.560	0.00	0.00
ATOM	305	CG	LYS	X	19	45.152	39.576	12.391	0.00	0.00
ATOM	306	HG2	LYS	X	19	44.406	38.854	12.058	0.00	0.00
ATOM	307	HG3	LYS	X	19	44.687	40.549	12.552	0.00	0.00
ATOM	308	CD	LYS	X	19	46.305	39.734	11.408	0.00	0.00
ATOM	309	HD2	LYS	X	19	47.026	40.395	11.890	0.00	0.00
ATOM	310	HD3	LYS	X	19	46.843	38.797	11.264	0.00	0.00
ATOM	311	CE	LYS	X	19	45.859	40.399	10.042	0.00	0.00
ATOM	312	HE2	LYS	X	19	45.313	39.666	9.449	0.00	0.00
ATOM	313	HE3	LYS	X	19	45.267	41.272	10.317	0.00	0.00
ATOM	314	NZ	LYS	X	19	47.000	40.780	9.118	0.00	0.00
ATOM	315	HZ1	LYS	X	19	46.597	41.218	8.302	0.00	0.00
ATOM	316	HZ2	LYS	X	19	47.518	41.565	9.485	0.00	0.00
ATOM	317	HZ3	LYS	X	19	47.554	39.998	8.799	0.00	0.00
ATOM	318	C	LYS	X	19	44.935	38.075	16.071	0.00	0.00
ATOM	319	O	LYS	X	19	45.671	38.595	16.901	0.00	0.00
ATOM	320	N	THR	X	20	44.438	36.785	16.082	0.00	0.00
ATOM	321	H	THR	X	20	43.771	36.511	15.374	0.00	0.00
ATOM	322	CA	THR	X	20	44.928	35.655	16.962	0.00	0.00
ATOM	323	HA	THR	X	20	45.984	35.876	17.112	0.00	0.00
ATOM	324	CB	THR	X	20	44.274	35.537	18.289	0.00	0.00
ATOM	325	HB	THR	X	20	44.244	34.482	18.561	0.00	0.00
ATOM	326	CG2	THR	X	20	45.108	36.248	19.276	0.00	0.00
ATOM	327	HG21	THR	X	20	46.134	35.891	19.187	0.00	0.00
ATOM	328	HG22	THR	X	20	44.706	36.062	20.271	0.00	0.00
ATOM	329	HG23	THR	X	20	45.094	37.326	19.115	0.00	0.00
ATOM	330	OG1	THR	X	20	42.991	36.070	18.282	0.00	0.00
ATOM	331	HG1	THR	X	20	42.350	35.599	17.745	0.00	0.00
ATOM	332	C	THR	X	20	45.066	34.322	16.197	0.00	0.00
ATOM	333	O	THR	X	20	44.172	34.090	15.381	0.00	0.00
ATOM	334	N	PRO	X	21	46.044	33.392	16.510	0.00	0.00
ATOM	335	CD	PRO	X	21	47.088	33.388	17.554	0.00	0.00
ATOM	336	HD2	PRO	X	21	46.628	33.450	18.540	0.00	0.00
ATOM	337	HD3	PRO	X	21	47.695	34.266	17.332	0.00	0.00
ATOM	338	CG	PRO	X	21	47.983	32.179	17.355	0.00	0.00
ATOM	339	HG2	PRO	X	21	48.462	31.784	18.250	0.00	0.00
ATOM	340	HG3	PRO	X	21	48.732	32.420	16.600	0.00	0.00
ATOM	341	CB	PRO	X	21	47.198	31.184	16.525	0.00	0.00
ATOM	342	HB2	PRO	X	21	46.519	30.555	17.100	0.00	0.00
ATOM	343	HB3	PRO	X	21	47.893	30.581	15.940	0.00	0.00
ATOM	344	CA	PRO	X	21	46.348	32.206	15.689	0.00	0.00
ATOM	345	HA	PRO	X	21	47.009	32.544	14.890	0.00	0.00
ATOM	346	C	PRO	X	21	45.264	31.509	14.977	0.00	0.00
ATOM	347	O	PRO	X	21	45.363	31.347	13.728	0.00	0.00
ATOM	348	N	GLY	X	22	44.182	31.133	15.717	0.00	0.00
ATOM	349	H	GLY	X	22	44.243	31.338	16.704	0.00	0.00
ATOM	350	CA	GLY	X	22	43.008	30.367	15.245	0.00	0.00
ATOM	351	HA2	GLY	X	22	43.455	29.794	14.432	0.00	0.00
ATOM	352	HA3	GLY	X	22	42.615	29.655	15.971	0.00	0.00
ATOM	353	C	GLY	X	22	41.773	31.178	14.689	0.00	0.00
ATOM	354	O	GLY	X	22	40.930	30.540	14.060	0.00	0.00
ATOM	355	N	GLY	X	23	41.692	32.447	15.065	0.00	0.00
ATOM	356	H	GLY	X	23	42.388	32.629	15.774	0.00	0.00
ATOM	357	CA	GLY	X	23	40.619	33.340	14.706	0.00	0.00
ATOM	358	HA2	GLY	X	23	40.616	33.428	13.620	0.00	0.00
ATOM	359	HA3	GLY	X	23	39.724	32.832	15.065	0.00	0.00
ATOM	360	C	GLY	X	23	40.823	34.745	15.328	0.00	0.00

ATOM	361	O	GLY	X	23	41.639	34.918	16.230	0.00	0.00
ATOM	362	N	PRO	X	24	40.161	35.779	14.771	0.00	0.00
ATOM	363	CD	PRO	X	24	39.347	35.814	13.503	0.00	0.00
ATOM	364	HD2	PRO	X	24	38.416	35.249	13.539	0.00	0.00
ATOM	365	HD3	PRO	X	24	39.867	35.351	12.665	0.00	0.00
ATOM	366	CG	PRO	X	24	39.009	37.291	13.291	0.00	0.00
ATOM	367	HG2	PRO	X	24	38.132	37.554	13.882	0.00	0.00
ATOM	368	HG3	PRO	X	24	38.945	37.530	12.229	0.00	0.00
ATOM	369	CB	PRO	X	24	40.120	38.048	14.039	0.00	0.00
ATOM	370	HB2	PRO	X	24	39.918	39.093	14.272	0.00	0.00
ATOM	371	HB3	PRO	X	24	40.961	38.099	13.346	0.00	0.00
ATOM	372	CA	PRO	X	24	40.309	37.128	15.266	0.00	0.00
ATOM	373	HA	PRO	X	24	41.333	37.289	15.600	0.00	0.00
ATOM	374	C	PRO	X	24	39.310	37.565	16.323	0.00	0.00
ATOM	375	O	PRO	X	24	38.216	37.000	16.386	0.00	0.00
ATOM	376	N	VAL	X	25	39.602	38.581	17.080	0.00	0.00
ATOM	377	H	VAL	X	25	40.441	39.098	16.861	0.00	0.00
ATOM	378	CA	VAL	X	25	38.765	39.265	18.078	0.00	0.00
ATOM	379	HA	VAL	X	25	37.758	38.974	17.779	0.00	0.00
ATOM	380	CB	VAL	X	25	39.164	38.875	19.538	0.00	0.00
ATOM	381	HB	VAL	X	25	38.377	39.264	20.183	0.00	0.00
ATOM	382	CG1	VAL	X	25	39.146	37.356	19.822	0.00	0.00
ATOM	383	HG11	VAL	X	25	39.596	37.170	20.797	0.00	0.00
ATOM	384	HG12	VAL	X	25	38.169	36.908	19.642	0.00	0.00
ATOM	385	HG13	VAL	X	25	39.807	36.863	19.108	0.00	0.00
ATOM	386	CG2	VAL	X	25	40.548	39.343	20.057	0.00	0.00
ATOM	387	HG21	VAL	X	25	40.522	39.163	21.131	0.00	0.00
ATOM	388	HG22	VAL	X	25	40.581	40.432	20.015	0.00	0.00
ATOM	389	HG23	VAL	X	25	41.376	38.976	19.450	0.00	0.00
ATOM	390	C	VAL	X	25	38.804	40.816	17.864	0.00	0.00
ATOM	391	O	VAL	X	25	39.426	41.334	16.954	0.00	0.00
ATOM	392	N	SER	X	26	38.146	41.517	18.844	0.00	0.00
ATOM	393	H	SER	X	26	37.628	40.942	19.494	0.00	0.00
ATOM	394	CA	SER	X	26	38.335	42.950	19.052	0.00	0.00
ATOM	395	HA	SER	X	26	39.111	43.311	18.377	0.00	0.00
ATOM	396	CB	SER	X	26	37.081	43.668	18.526	0.00	0.00
ATOM	397	HB2	SER	X	26	37.063	44.715	18.831	0.00	0.00
ATOM	398	HB3	SER	X	26	36.999	43.564	17.445	0.00	0.00
ATOM	399	OG	SER	X	26	35.879	43.285	19.120	0.00	0.00
ATOM	400	HG	SER	X	26	36.101	42.402	19.425	0.00	0.00
ATOM	401	C	SER	X	26	38.747	43.434	20.484	0.00	0.00
ATOM	402	O	SER	X	26	38.494	42.755	21.443	0.00	0.00
ATOM	403	N	ALA	X	27	39.169	44.712	20.564	0.00	0.00
ATOM	404	H	ALA	X	27	39.204	45.248	19.708	0.00	0.00
ATOM	405	CA	ALA	X	27	39.429	45.382	21.881	0.00	0.00
ATOM	406	HA	ALA	X	27	38.884	44.882	22.682	0.00	0.00
ATOM	407	CB	ALA	X	27	40.983	45.239	22.083	0.00	0.00
ATOM	408	HB1	ALA	X	27	41.517	45.708	21.257	0.00	0.00
ATOM	409	HB2	ALA	X	27	41.210	44.173	22.103	0.00	0.00
ATOM	410	HB3	ALA	X	27	41.261	45.654	23.051	0.00	0.00
ATOM	411	C	ALA	X	27	38.998	46.853	21.841	0.00	0.00
ATOM	412	O	ALA	X	27	38.964	47.409	20.754	0.00	0.00
ATOM	413	N	PHE	X	28	38.706	47.471	23.026	0.00	0.00
ATOM	414	H	PHE	X	28	38.812	46.871	23.832	0.00	0.00
ATOM	415	CA	PHE	X	28	38.158	48.798	23.128	0.00	0.00
ATOM	416	HA	PHE	X	28	38.366	49.544	22.361	0.00	0.00
ATOM	417	CB	PHE	X	28	36.673	48.760	23.397	0.00	0.00
ATOM	418	HB2	PHE	X	28	36.483	48.110	24.251	0.00	0.00
ATOM	419	HB3	PHE	X	28	36.472	49.788	23.699	0.00	0.00
ATOM	420	CG	PHE	X	28	35.765	48.408	22.221	0.00	0.00
ATOM	421	CD1	PHE	X	28	35.609	47.042	21.947	0.00	0.00
ATOM	422	HD1	PHE	X	28	36.028	46.323	22.635	0.00	0.00
ATOM	423	CE1	PHE	X	28	34.836	46.525	20.899	0.00	0.00
ATOM	424	HE1	PHE	X	28	34.910	45.472	20.670	0.00	0.00
ATOM	425	CZ	PHE	X	28	34.154	47.404	20.071	0.00	0.00
ATOM	426	HZ	PHE	X	28	33.559	46.924	19.308	0.00	0.00
ATOM	427	CE2	PHE	X	28	34.213	48.852	20.347	0.00	0.00

ATOM	428	HE2	PHE	X	28	33.682	49.533	19.699	0.00	0.00
ATOM	429	CD2	PHE	X	28	35.009	49.309	21.441	0.00	0.00
ATOM	430	HD2	PHE	X	28	35.056	50.380	21.572	0.00	0.00
ATOM	431	C	PHE	X	28	38.968	49.320	24.344	0.00	0.00
ATOM	432	O	PHE	X	28	38.654	49.069	25.556	0.00	0.00
ATOM	433	N	LEU	X	29	40.146	49.960	24.059	0.00	0.00
ATOM	434	H	LEU	X	29	40.292	50.372	23.149	0.00	0.00
ATOM	435	CA	LEU	X	29	41.160	50.422	25.097	0.00	0.00
ATOM	436	HA	LEU	X	29	40.923	49.883	26.014	0.00	0.00
ATOM	437	CB	LEU	X	29	42.650	50.067	24.636	0.00	0.00
ATOM	438	HB2	LEU	X	29	42.998	50.773	23.882	0.00	0.00
ATOM	439	HB3	LEU	X	29	43.186	50.252	25.567	0.00	0.00
ATOM	440	CG	LEU	X	29	42.873	48.624	24.173	0.00	0.00
ATOM	441	HG	LEU	X	29	42.145	48.538	23.366	0.00	0.00
ATOM	442	CD1	LEU	X	29	44.253	48.389	23.541	0.00	0.00
ATOM	443	HD11	LEU	X	29	44.393	49.029	22.670	0.00	0.00
ATOM	444	HD12	LEU	X	29	44.363	47.375	23.156	0.00	0.00
ATOM	445	HD13	LEU	X	29	45.009	48.574	24.304	0.00	0.00
ATOM	446	CD2	LEU	X	29	42.691	47.550	25.256	0.00	0.00
ATOM	447	HD21	LEU	X	29	43.432	47.707	26.040	0.00	0.00
ATOM	448	HD22	LEU	X	29	41.676	47.489	25.649	0.00	0.00
ATOM	449	HD23	LEU	X	29	42.959	46.616	24.764	0.00	0.00
ATOM	450	C	LEU	X	29	41.201	51.990	25.306	0.00	0.00
ATOM	451	O	LEU	X	29	40.983	52.755	24.370	0.00	0.00
ATOM	452	N	GLY	X	30	41.592	52.464	26.491	0.00	0.00
ATOM	453	H	GLY	X	30	41.913	51.865	27.239	0.00	0.00
ATOM	454	CA	GLY	X	30	41.537	53.843	26.760	0.00	0.00
ATOM	455	HA2	GLY	X	30	42.185	54.167	27.575	0.00	0.00
ATOM	456	HA3	GLY	X	30	41.890	54.401	25.893	0.00	0.00
ATOM	457	C	GLY	X	30	40.123	54.423	26.972	0.00	0.00
ATOM	458	O	GLY	X	30	39.963	55.614	26.787	0.00	0.00
ATOM	459	N	ILE	X	31	39.151	53.548	27.256	0.00	0.00
ATOM	460	H	ILE	X	31	39.278	52.621	27.635	0.00	0.00
ATOM	461	CA	ILE	X	31	37.753	54.047	27.392	0.00	0.00
ATOM	462	HA	ILE	X	31	37.613	54.657	26.499	0.00	0.00
ATOM	463	CB	ILE	X	31	36.644	52.874	27.351	0.00	0.00
ATOM	464	HB	ILE	X	31	36.425	52.523	28.359	0.00	0.00
ATOM	465	CG2	ILE	X	31	35.350	53.595	26.860	0.00	0.00
ATOM	466	HG21	ILE	X	31	34.476	52.959	27.004	0.00	0.00
ATOM	467	HG22	ILE	X	31	35.395	54.013	25.855	0.00	0.00
ATOM	468	HG23	ILE	X	31	35.162	54.362	27.612	0.00	0.00
ATOM	469	CG1	ILE	X	31	36.833	51.573	26.496	0.00	0.00
ATOM	470	HG12	ILE	X	31	36.925	51.932	25.471	0.00	0.00
ATOM	471	HG13	ILE	X	31	37.792	51.135	26.773	0.00	0.00
ATOM	472	CD1	ILE	X	31	35.737	50.482	26.636	0.00	0.00
ATOM	473	HD11	ILE	X	31	36.028	49.541	26.169	0.00	0.00
ATOM	474	HD12	ILE	X	31	34.842	50.805	26.106	0.00	0.00
ATOM	475	HD13	ILE	X	31	35.493	50.405	27.695	0.00	0.00
ATOM	476	C	ILE	X	31	37.603	54.805	28.707	0.00	0.00
ATOM	477	O	ILE	X	31	37.762	54.205	29.785	0.00	0.00
ATOM	478	N	PRO	X	32	37.329	56.113	28.694	0.00	0.00
ATOM	479	CD	PRO	X	32	37.196	57.034	27.508	0.00	0.00
ATOM	480	HD2	PRO	X	32	36.824	56.589	26.585	0.00	0.00
ATOM	481	HD3	PRO	X	32	38.203	57.406	27.316	0.00	0.00
ATOM	482	CG	PRO	X	32	36.444	58.252	27.979	0.00	0.00
ATOM	483	HG2	PRO	X	32	35.404	57.931	27.924	0.00	0.00
ATOM	484	HG3	PRO	X	32	36.719	59.077	27.322	0.00	0.00
ATOM	485	CB	PRO	X	32	36.946	58.397	29.416	0.00	0.00
ATOM	486	HB2	PRO	X	32	36.232	58.947	30.028	0.00	0.00
ATOM	487	HB3	PRO	X	32	37.928	58.869	29.405	0.00	0.00
ATOM	488	CA	PRO	X	32	37.125	56.910	29.868	0.00	0.00
ATOM	489	HA	PRO	X	32	37.978	56.810	30.539	0.00	0.00
ATOM	490	C	PRO	X	32	35.880	56.461	30.666	0.00	0.00
ATOM	491	O	PRO	X	32	34.842	56.268	30.105	0.00	0.00
ATOM	492	N	PHE	X	33	36.011	56.246	31.967	0.00	0.00
ATOM	493	H	PHE	X	33	36.874	56.426	32.461	0.00	0.00
ATOM	494	CA	PHE	X	33	35.042	55.730	32.961	0.00	0.00

ATOM	495	HA	PHE	X	33	34.091	55.610	32.443	0.00	0.00
ATOM	496	CB	PHE	X	33	35.411	54.353	33.392	0.00	0.00
ATOM	497	HB2	PHE	X	33	34.474	53.871	33.671	0.00	0.00
ATOM	498	HB3	PHE	X	33	35.806	53.841	32.515	0.00	0.00
ATOM	499	CG	PHE	X	33	36.374	54.235	34.591	0.00	0.00
ATOM	500	CD1	PHE	X	33	35.945	54.228	35.900	0.00	0.00
ATOM	501	HD1	PHE	X	33	34.882	54.363	36.034	0.00	0.00
ATOM	502	CE1	PHE	X	33	36.888	54.058	36.908	0.00	0.00
ATOM	503	HE1	PHE	X	33	36.613	54.207	37.941	0.00	0.00
ATOM	504	CZ	PHE	X	33	38.216	53.665	36.611	0.00	0.00
ATOM	505	HZ	PHE	X	33	38.958	53.553	37.388	0.00	0.00
ATOM	506	CE2	PHE	X	33	38.698	53.649	35.278	0.00	0.00
ATOM	507	HE2	PHE	X	33	39.719	53.417	35.013	0.00	0.00
ATOM	508	CD2	PHE	X	33	37.704	53.947	34.300	0.00	0.00
ATOM	509	HD2	PHE	X	33	37.966	53.995	33.254	0.00	0.00
ATOM	510	C	PHE	X	33	34.701	56.624	34.133	0.00	0.00
ATOM	511	O	PHE	X	33	33.545	56.807	34.502	0.00	0.00
ATOM	512	N	ALA	X	34	35.718	57.449	34.555	0.00	0.00
ATOM	513	H	ALA	X	34	36.641	57.374	34.152	0.00	0.00
ATOM	514	CA	ALA	X	34	35.545	58.533	35.530	0.00	0.00
ATOM	515	HA	ALA	X	34	34.474	58.483	35.725	0.00	0.00
ATOM	516	CB	ALA	X	34	36.382	58.226	36.795	0.00	0.00
ATOM	517	HB1	ALA	X	34	35.965	58.860	37.577	0.00	0.00
ATOM	518	HB2	ALA	X	34	37.410	58.376	36.465	0.00	0.00
ATOM	519	HB3	ALA	X	34	36.363	57.180	37.099	0.00	0.00
ATOM	520	C	ALA	X	34	35.901	59.941	34.911	0.00	0.00
ATOM	521	O	ALA	X	34	36.502	60.043	33.807	0.00	0.00
ATOM	522	N	GLU	X	35	35.645	60.962	35.709	0.00	0.00
ATOM	523	H	GLU	X	35	35.308	60.740	36.635	0.00	0.00
ATOM	524	CA	GLU	X	35	36.047	62.309	35.496	0.00	0.00
ATOM	525	HA	GLU	X	35	36.101	62.618	34.452	0.00	0.00
ATOM	526	CB	GLU	X	35	35.180	63.340	36.221	0.00	0.00
ATOM	527	HB2	GLU	X	35	35.063	63.048	37.264	0.00	0.00
ATOM	528	HB3	GLU	X	35	35.743	64.274	36.217	0.00	0.00
ATOM	529	CG	GLU	X	35	33.798	63.590	35.626	0.00	0.00
ATOM	530	HG2	GLU	X	35	33.211	62.674	35.689	0.00	0.00
ATOM	531	HG3	GLU	X	35	33.373	64.340	36.293	0.00	0.00
ATOM	532	CD	GLU	X	35	33.959	64.072	34.200	0.00	0.00
ATOM	533	OE1	GLU	X	35	33.877	63.243	33.270	0.00	0.00
ATOM	534	OE2	GLU	X	35	34.074	65.324	34.050	0.00	0.00
ATOM	535	C	GLU	X	35	37.556	62.295	35.987	0.00	0.00
ATOM	536	O	GLU	X	35	37.775	61.821	37.134	0.00	0.00
ATOM	537	N	PRO	X	36	38.464	62.969	35.325	0.00	0.00
ATOM	538	CD	PRO	X	36	38.245	63.844	34.182	0.00	0.00
ATOM	539	HD2	PRO	X	36	37.471	64.565	34.446	0.00	0.00
ATOM	540	HD3	PRO	X	36	37.938	63.244	33.325	0.00	0.00
ATOM	541	CG	PRO	X	36	39.500	64.737	34.081	0.00	0.00
ATOM	542	HG2	PRO	X	36	39.460	65.450	34.905	0.00	0.00
ATOM	543	HG3	PRO	X	36	39.623	65.084	33.055	0.00	0.00
ATOM	544	CB	PRO	X	36	40.552	63.759	34.505	0.00	0.00
ATOM	545	HB2	PRO	X	36	41.407	64.281	34.936	0.00	0.00
ATOM	546	HB3	PRO	X	36	40.897	63.096	33.711	0.00	0.00
ATOM	547	CA	PRO	X	36	39.884	62.929	35.662	0.00	0.00
ATOM	548	HA	PRO	X	36	40.265	61.917	35.527	0.00	0.00
ATOM	549	C	PRO	X	36	40.268	63.530	36.980	0.00	0.00
ATOM	550	O	PRO	X	36	39.989	64.711	37.246	0.00	0.00
ATOM	551	N	PRO	X	37	40.943	62.763	37.890	0.00	0.00
ATOM	552	CD	PRO	X	37	41.393	61.368	37.754	0.00	0.00
ATOM	553	HD2	PRO	X	37	42.070	61.179	36.920	0.00	0.00
ATOM	554	HD3	PRO	X	37	40.547	60.709	37.558	0.00	0.00
ATOM	555	CG	PRO	X	37	41.973	60.889	39.052	0.00	0.00
ATOM	556	HG2	PRO	X	37	43.051	61.050	39.051	0.00	0.00
ATOM	557	HG3	PRO	X	37	41.731	59.834	39.184	0.00	0.00
ATOM	558	CB	PRO	X	37	41.174	61.731	40.059	0.00	0.00
ATOM	559	HB2	PRO	X	37	41.727	61.790	40.996	0.00	0.00
ATOM	560	HB3	PRO	X	37	40.185	61.281	40.141	0.00	0.00
ATOM	561	CA	PRO	X	37	41.076	63.020	39.337	0.00	0.00

ATOM	562	HA	PRO	X	37	40.160	63.382	39.803	0.00	0.00
ATOM	563	C	PRO	X	37	42.187	64.095	39.708	0.00	0.00
ATOM	564	O	PRO	X	37	42.777	64.031	40.806	0.00	0.00
ATOM	565	N	MET	X	38	42.414	65.026	38.823	0.00	0.00
ATOM	566	H	MET	X	38	41.707	64.994	38.102	0.00	0.00
ATOM	567	CA	MET	X	38	43.353	66.110	38.937	0.00	0.00
ATOM	568	HA	MET	X	38	44.322	65.627	39.059	0.00	0.00
ATOM	569	CB	MET	X	38	43.408	66.844	37.550	0.00	0.00
ATOM	570	HB2	MET	X	38	42.598	67.573	37.509	0.00	0.00
ATOM	571	HB3	MET	X	38	44.363	67.364	37.479	0.00	0.00
ATOM	572	CG	MET	X	38	43.305	65.956	36.321	0.00	0.00
ATOM	573	HG2	MET	X	38	44.184	65.314	36.253	0.00	0.00
ATOM	574	HD3	MET	X	38	42.395	65.362	36.407	0.00	0.00
ATOM	575	SD	MET	X	38	43.011	66.946	34.797	0.00	0.00
ATOM	576	CE	MET	X	38	44.641	67.889	34.674	0.00	0.00
ATOM	577	HE1	MET	X	38	45.400	67.107	34.639	0.00	0.00
ATOM	578	HE2	MET	X	38	44.618	68.532	33.794	0.00	0.00
ATOM	579	HE3	MET	X	38	44.759	68.411	35.623	0.00	0.00
ATOM	580	C	MET	X	38	43.199	67.032	40.134	0.00	0.00
ATOM	581	O	MET	X	38	42.112	67.304	40.642	0.00	0.00
ATOM	582	N	GLY	X	39	44.283	67.733	40.495	0.00	0.00
ATOM	583	H	GLY	X	39	45.176	67.340	40.233	0.00	0.00
ATOM	584	CA	GLY	X	39	44.195	69.006	41.225	0.00	0.00
ATOM	585	HA2	GLY	X	39	45.230	69.286	41.420	0.00	0.00
ATOM	586	HA3	GLY	X	39	43.789	69.803	40.602	0.00	0.00
ATOM	587	C	GLY	X	39	43.370	68.975	42.522	0.00	0.00
ATOM	588	O	GLY	X	39	43.701	68.179	43.414	0.00	0.00
ATOM	589	N	PRO	X	40	42.194	69.695	42.659	0.00	0.00
ATOM	590	CD	PRO	X	40	41.809	70.813	41.736	0.00	0.00
ATOM	591	HD2	PRO	X	40	41.769	70.398	40.729	0.00	0.00
ATOM	592	HD3	PRO	X	40	42.497	71.656	41.797	0.00	0.00
ATOM	593	CG	PRO	X	40	40.418	71.254	42.184	0.00	0.00
ATOM	594	HG2	PRO	X	40	39.751	71.575	41.384	0.00	0.00
ATOM	595	HG3	PRO	X	40	40.609	72.041	42.914	0.00	0.00
ATOM	596	CB	PRO	X	40	39.877	70.061	43.024	0.00	0.00
ATOM	597	HB2	PRO	X	40	39.382	69.426	42.290	0.00	0.00
ATOM	598	HB3	PRO	X	40	39.169	70.408	43.777	0.00	0.00
ATOM	599	CA	PRO	X	40	41.109	69.436	43.656	0.00	0.00
ATOM	600	HA	PRO	X	40	41.337	69.995	44.564	0.00	0.00
ATOM	601	C	PRO	X	40	40.797	67.942	43.971	0.00	0.00
ATOM	602	O	PRO	X	40	40.861	67.572	45.177	0.00	0.00
ATOM	603	N	ARG	X	41	40.526	67.117	42.923	0.00	0.00
ATOM	604	H	ARG	X	41	40.688	67.450	41.983	0.00	0.00
ATOM	605	CA	ARG	X	41	40.132	65.703	43.124	0.00	0.00
ATOM	606	HA	ARG	X	41	39.404	65.660	43.934	0.00	0.00
ATOM	607	CB	ARG	X	41	39.188	65.175	41.904	0.00	0.00
ATOM	608	HB2	ARG	X	41	39.790	65.191	40.995	0.00	0.00
ATOM	609	HB3	ARG	X	41	38.769	64.218	42.215	0.00	0.00
ATOM	610	CG	ARG	X	41	37.987	66.126	41.742	0.00	0.00
ATOM	611	HG2	ARG	X	41	37.504	66.146	42.719	0.00	0.00
ATOM	612	HG3	ARG	X	41	38.322	67.138	41.514	0.00	0.00
ATOM	613	CD	ARG	X	41	37.038	65.524	40.704	0.00	0.00
ATOM	614	HD2	ARG	X	41	36.925	64.454	40.881	0.00	0.00
ATOM	615	HD3	ARG	X	41	36.055	65.989	40.784	0.00	0.00
ATOM	616	NE	ARG	X	41	37.545	65.763	39.332	0.00	0.00
ATOM	617	HE	ARG	X	41	38.551	65.845	39.285	0.00	0.00
ATOM	618	CZ	ARG	X	41	36.769	66.065	38.271	0.00	0.00
ATOM	619	NH1	ARG	X	41	35.457	66.128	38.333	0.00	0.00
ATOM	620	HH11	ARG	X	41	35.069	65.882	39.232	0.00	0.00
ATOM	621	HH12	ARG	X	41	34.873	66.446	37.573	0.00	0.00
ATOM	622	NH2	ARG	X	41	37.389	66.389	37.157	0.00	0.00
ATOM	623	HH21	ARG	X	41	38.389	66.253	37.118	0.00	0.00
ATOM	624	HH22	ARG	X	41	36.854	66.455	36.303	0.00	0.00
ATOM	625	C	ARG	X	41	41.293	64.667	43.459	0.00	0.00
ATOM	626	O	ARG	X	41	41.105	63.522	43.663	0.00	0.00
ATOM	627	N	ARG	X	42	42.570	65.125	43.486	0.00	0.00
ATOM	628	H	ARG	X	42	42.803	66.062	43.189	0.00	0.00

ATOM	629	CA	ARG	X	42	43.692	64.264	43.947	0.00	0.00
ATOM	630	HA	ARG	X	42	43.683	63.320	43.403	0.00	0.00
ATOM	631	CB	ARG	X	42	44.981	65.064	43.636	0.00	0.00
ATOM	632	HB2	ARG	X	42	44.952	65.434	42.611	0.00	0.00
ATOM	633	HB3	ARG	X	42	45.059	65.915	44.312	0.00	0.00
ATOM	634	CG	ARG	X	42	46.253	64.245	44.018	0.00	0.00
ATOM	635	HG2	ARG	X	42	46.189	63.826	45.022	0.00	0.00
ATOM	636	HG3	ARG	X	42	46.357	63.445	43.284	0.00	0.00
ATOM	637	CD	ARG	X	42	47.444	65.172	44.158	0.00	0.00
ATOM	638	HD2	ARG	X	42	47.217	65.928	44.909	0.00	0.00
ATOM	639	HD3	ARG	X	42	48.313	64.567	44.419	0.00	0.00
ATOM	640	NE	ARG	X	42	47.747	65.860	42.909	0.00	0.00
ATOM	641	HE	ARG	X	42	47.431	65.385	42.076	0.00	0.00
ATOM	642	CZ	ARG	X	42	48.450	66.908	42.699	0.00	0.00
ATOM	643	NH1	ARG	X	42	49.242	67.527	43.570	0.00	0.00
ATOM	644	HH11	ARG	X	42	49.316	67.214	44.528	0.00	0.00
ATOM	645	HH12	ARG	X	42	49.848	68.244	43.197	0.00	0.00
ATOM	646	NH2	ARG	X	42	48.278	67.489	41.505	0.00	0.00
ATOM	647	HH21	ARG	X	42	47.718	67.058	40.783	0.00	0.00
ATOM	648	HH22	ARG	X	42	48.731	68.344	41.216	0.00	0.00
ATOM	649	C	ARG	X	42	43.569	63.869	45.522	0.00	0.00
ATOM	650	O	ARG	X	42	43.233	64.757	46.318	0.00	0.00
ATOM	651	N	PHE	X	43	43.561	62.580	45.877	0.00	0.00
ATOM	652	H	PHE	X	43	43.810	61.924	45.151	0.00	0.00
ATOM	653	CA	PHE	X	43	43.270	61.997	47.193	0.00	0.00
ATOM	654	HA	PHE	X	43	43.597	60.961	47.110	0.00	0.00
ATOM	655	CB	PHE	X	43	44.143	62.749	48.273	0.00	0.00
ATOM	656	HB2	PHE	X	43	43.575	63.634	48.563	0.00	0.00
ATOM	657	HB3	PHE	X	43	44.104	62.056	49.113	0.00	0.00
ATOM	658	CG	PHE	X	43	45.587	63.128	47.955	0.00	0.00
ATOM	659	CD1	PHE	X	43	46.457	62.148	47.402	0.00	0.00
ATOM	660	HD1	PHE	X	43	46.054	61.148	47.338	0.00	0.00
ATOM	661	CE1	PHE	X	43	47.738	62.638	46.957	0.00	0.00
ATOM	662	HE1	PHE	X	43	48.389	61.889	46.532	0.00	0.00
ATOM	663	CZ	PHE	X	43	48.126	63.996	47.180	0.00	0.00
ATOM	664	HZ	PHE	X	43	49.153	64.274	46.995	0.00	0.00
ATOM	665	CE2	PHE	X	43	47.257	64.939	47.814	0.00	0.00
ATOM	666	HE2	PHE	X	43	47.570	65.962	47.966	0.00	0.00
ATOM	667	CD2	PHE	X	43	45.979	64.501	48.159	0.00	0.00
ATOM	668	HD2	PHE	X	43	45.306	65.157	48.692	0.00	0.00
ATOM	669	C	PHE	X	43	41.780	61.965	47.573	0.00	0.00
ATOM	670	O	PHE	X	43	41.394	61.638	48.707	0.00	0.00
ATOM	671	N	LEU	X	44	40.807	62.269	46.686	0.00	0.00
ATOM	672	H	LEU	X	44	41.166	62.466	45.763	0.00	0.00
ATOM	673	CA	LEU	X	44	39.381	62.337	46.928	0.00	0.00
ATOM	674	HA	LEU	X	44	39.248	62.134	47.991	0.00	0.00
ATOM	675	CB	LEU	X	44	38.849	63.714	46.474	0.00	0.00
ATOM	676	HB2	LEU	X	44	39.182	63.923	45.457	0.00	0.00
ATOM	677	HB3	LEU	X	44	37.762	63.661	46.524	0.00	0.00
ATOM	678	CG	LEU	X	44	39.330	64.918	47.337	0.00	0.00
ATOM	679	HG	LEU	X	44	40.395	65.099	47.194	0.00	0.00
ATOM	680	CD1	LEU	X	44	38.540	66.170	46.940	0.00	0.00
ATOM	681	HD11	LEU	X	44	39.061	66.944	47.505	0.00	0.00
ATOM	682	HD12	LEU	X	44	37.531	66.101	47.348	0.00	0.00
ATOM	683	HD13	LEU	X	44	38.686	66.327	45.872	0.00	0.00
ATOM	684	CD2	LEU	X	44	39.093	64.621	48.826	0.00	0.00
ATOM	685	HD21	LEU	X	44	39.736	63.822	49.195	0.00	0.00
ATOM	686	HD22	LEU	X	44	39.284	65.545	49.374	0.00	0.00
ATOM	687	HD23	LEU	X	44	38.049	64.307	48.824	0.00	0.00
ATOM	688	C	LEU	X	44	38.673	61.145	46.250	0.00	0.00
ATOM	689	O	LEU	X	44	39.240	60.685	45.255	0.00	0.00
ATOM	690	N	PRO	X	45	37.441	60.646	46.696	0.00	0.00
ATOM	691	CD	PRO	X	45	36.823	60.864	47.990	0.00	0.00
ATOM	692	HD2	PRO	X	45	36.855	61.923	48.246	0.00	0.00
ATOM	693	HD3	PRO	X	45	37.456	60.429	48.763	0.00	0.00
ATOM	694	CG	PRO	X	45	35.475	60.377	47.935	0.00	0.00
ATOM	695	HG2	PRO	X	45	34.840	61.167	47.535	0.00	0.00

ATOM	696	HG3	PRO	X	45	35.148	60.049	48.922	0.00	0.00
ATOM	697	CB	PRO	X	45	35.571	59.217	46.921	0.00	0.00
ATOM	698	HB2	PRO	X	45	34.582	59.094	46.479	0.00	0.00
ATOM	699	HB3	PRO	X	45	35.882	58.277	47.378	0.00	0.00
ATOM	700	CA	PRO	X	45	36.755	59.617	45.977	0.00	0.00
ATOM	701	HA	PRO	X	45	37.431	58.772	45.848	0.00	0.00
ATOM	702	C	PRO	X	45	36.198	60.176	44.655	0.00	0.00
ATOM	703	O	PRO	X	45	36.048	61.426	44.631	0.00	0.00
ATOM	704	N	PRO	X	46	36.185	59.438	43.577	0.00	0.00
ATOM	705	CD	PRO	X	46	36.364	57.980	43.534	0.00	0.00
ATOM	706	HD2	PRO	X	46	35.538	57.446	44.005	0.00	0.00
ATOM	707	HD3	PRO	X	46	37.345	57.731	43.940	0.00	0.00
ATOM	708	CG	PRO	X	46	36.379	57.675	41.988	0.00	0.00
ATOM	709	HG2	PRO	X	46	35.405	57.360	41.615	0.00	0.00
ATOM	710	HG3	PRO	X	46	37.184	57.025	41.644	0.00	0.00
ATOM	711	CB	PRO	X	46	36.767	59.002	41.366	0.00	0.00
ATOM	712	HB2	PRO	X	46	36.532	59.055	40.303	0.00	0.00
ATOM	713	HB3	PRO	X	46	37.835	59.215	41.317	0.00	0.00
ATOM	714	CA	PRO	X	46	35.975	60.004	42.251	0.00	0.00
ATOM	715	HA	PRO	X	46	36.324	61.034	42.330	0.00	0.00
ATOM	716	C	PRO	X	46	34.456	60.043	41.893	0.00	0.00
ATOM	717	O	PRO	X	46	33.616	59.747	42.750	0.00	0.00
ATOM	718	N	GLU	X	47	34.205	60.284	40.532	0.00	0.00
ATOM	719	H	GLU	X	47	34.992	60.481	39.930	0.00	0.00
ATOM	720	CA	GLU	X	47	32.823	60.341	40.028	0.00	0.00
ATOM	721	HA	GLU	X	47	32.273	59.627	40.642	0.00	0.00
ATOM	722	CB	GLU	X	47	32.229	61.729	40.280	0.00	0.00
ATOM	723	HB2	GLU	X	47	31.165	61.754	40.046	0.00	0.00
ATOM	724	HB3	GLU	X	47	32.302	61.893	41.355	0.00	0.00
ATOM	725	CG	GLU	X	47	32.856	62.797	39.462	0.00	0.00
ATOM	726	HG2	GLU	X	47	33.939	62.693	39.513	0.00	0.00
ATOM	727	HG3	GLU	X	47	32.567	62.569	38.436	0.00	0.00
ATOM	728	CD	GLU	X	47	32.441	64.202	39.929	0.00	0.00
ATOM	729	OE1	GLU	X	47	33.315	64.924	40.422	0.00	0.00
ATOM	730	OE2	GLU	X	47	31.235	64.542	39.835	0.00	0.00
ATOM	731	C	GLU	X	47	32.755	59.969	38.512	0.00	0.00
ATOM	732	O	GLU	X	47	33.714	60.331	37.816	0.00	0.00
ATOM	733	N	PRO	X	48	31.641	59.416	37.948	0.00	0.00
ATOM	734	CD	PRO	X	48	30.318	59.276	38.687	0.00	0.00
ATOM	735	HD2	PRO	X	48	29.888	60.227	39.001	0.00	0.00
ATOM	736	HD3	PRO	X	48	30.525	58.461	39.380	0.00	0.00
ATOM	737	CG	PRO	X	48	29.342	58.767	37.577	0.00	0.00
ATOM	738	HG2	PRO	X	48	28.920	59.689	37.179	0.00	0.00
ATOM	739	HG3	PRO	X	48	28.620	58.014	37.894	0.00	0.00
ATOM	740	CB	PRO	X	48	30.316	58.143	36.577	0.00	0.00
ATOM	741	HB2	PRO	X	48	29.849	58.032	35.598	0.00	0.00
ATOM	742	HB3	PRO	X	48	30.464	57.082	36.777	0.00	0.00
ATOM	743	CA	PRO	X	48	31.637	58.865	36.589	0.00	0.00
ATOM	744	HA	PRO	X	48	32.528	58.249	36.462	0.00	0.00
ATOM	745	C	PRO	X	48	31.652	59.928	35.453	0.00	0.00
ATOM	746	O	PRO	X	48	31.249	61.106	35.555	0.00	0.00
ATOM	747	N	LYS	X	49	32.304	59.538	34.346	0.00	0.00
ATOM	748	H	LYS	X	49	32.636	58.584	34.329	0.00	0.00
ATOM	749	CA	LYS	X	49	32.632	60.250	33.105	0.00	0.00
ATOM	750	HA	LYS	X	49	33.341	60.992	33.474	0.00	0.00
ATOM	751	CB	LYS	X	49	33.214	59.233	32.112	0.00	0.00
ATOM	752	HB2	LYS	X	49	34.264	59.127	32.388	0.00	0.00
ATOM	753	HB3	LYS	X	49	32.603	58.332	32.168	0.00	0.00
ATOM	754	CG	LYS	X	49	33.411	59.796	30.644	0.00	0.00
ATOM	755	HG2	LYS	X	49	33.816	59.000	30.018	0.00	0.00
ATOM	756	HG3	LYS	X	49	32.449	60.097	30.228	0.00	0.00
ATOM	757	CD	LYS	X	49	34.358	60.961	30.571	0.00	0.00
ATOM	758	HD2	LYS	X	49	33.932	61.705	31.244	0.00	0.00
ATOM	759	HD3	LYS	X	49	35.363	60.733	30.927	0.00	0.00
ATOM	760	CE	LYS	X	49	34.382	61.489	29.184	0.00	0.00
ATOM	761	HE2	LYS	X	49	35.016	60.887	28.533	0.00	0.00
ATOM	762	HE3	LYS	X	49	33.386	61.641	28.769	0.00	0.00

ATOM	763	NZ	LYS	X	49	35.023	62.790	29.119	0.00	0.00
ATOM	764	HZ1	LYS	X	49	35.990	62.740	28.833	0.00	0.00
ATOM	765	HZ2	LYS	X	49	34.702	63.425	28.402	0.00	0.00
ATOM	766	HZ3	LYS	X	49	34.888	63.159	30.050	0.00	0.00
ATOM	767	C	LYS	X	49	31.348	61.007	32.590	0.00	0.00
ATOM	768	O	LYS	X	49	30.341	60.350	32.282	0.00	0.00
ATOM	769	N	GLN	X	50	31.455	62.372	32.333	0.00	0.00
ATOM	770	H	GLN	X	50	32.344	62.838	32.445	0.00	0.00
ATOM	771	CA	GLN	X	50	30.323	63.112	31.774	0.00	0.00
ATOM	772	HA	GLN	X	50	29.455	62.667	32.260	0.00	0.00
ATOM	773	CB	GLN	X	50	30.421	64.695	32.102	0.00	0.00
ATOM	774	HB2	GLN	X	50	29.478	65.124	31.762	0.00	0.00
ATOM	775	HB3	GLN	X	50	30.529	64.761	33.185	0.00	0.00
ATOM	776	CG	GLN	X	50	31.586	65.437	31.441	0.00	0.00
ATOM	777	HG2	GLN	X	50	32.504	64.872	31.599	0.00	0.00
ATOM	778	HG3	GLN	X	50	31.513	65.484	30.354	0.00	0.00
ATOM	779	CD	GLN	X	50	31.767	66.909	31.948	0.00	0.00
ATOM	780	OE1	GLN	X	50	30.912	67.761	31.780	0.00	0.00
ATOM	781	NE2	GLN	X	50	32.886	67.229	32.599	0.00	0.00
ATOM	782	HE21	GLN	X	50	33.078	68.213	32.721	0.00	0.00
ATOM	783	HE22	GLN	X	50	33.501	66.540	33.007	0.00	0.00
ATOM	784	C	GLN	X	50	30.149	62.823	30.246	0.00	0.00
ATOM	785	O	GLN	X	50	31.125	62.514	29.663	0.00	0.00
ATOM	786	N	PRO	X	51	28.910	62.704	29.645	0.00	0.00
ATOM	787	CD	PRO	X	51	27.659	63.181	30.187	0.00	0.00
ATOM	788	HD2	PRO	X	51	27.750	64.165	30.647	0.00	0.00
ATOM	789	HD3	PRO	X	51	27.226	62.511	30.930	0.00	0.00
ATOM	790	CG	PRO	X	51	26.664	63.271	29.031	0.00	0.00
ATOM	791	HG2	PRO	X	51	26.621	64.222	28.499	0.00	0.00
ATOM	792	HG3	PRO	X	51	25.636	63.163	29.379	0.00	0.00
ATOM	793	CB	PRO	X	51	27.142	62.083	28.135	0.00	0.00
ATOM	794	HB2	PRO	X	51	26.804	62.297	27.121	0.00	0.00
ATOM	795	HB3	PRO	X	51	26.722	61.129	28.453	0.00	0.00
ATOM	796	CA	PRO	X	51	28.670	62.194	28.319	0.00	0.00
ATOM	797	HA	PRO	X	51	29.165	61.229	28.206	0.00	0.00
ATOM	798	C	PRO	X	51	29.273	63.137	27.283	0.00	0.00
ATOM	799	O	PRO	X	51	29.505	64.345	27.595	0.00	0.00
ATOM	800	N	TRP	X	52	29.438	62.632	26.073	0.00	0.00
ATOM	801	H	TRP	X	52	29.298	61.634	26.014	0.00	0.00
ATOM	802	CA	TRP	X	52	29.804	63.372	24.838	0.00	0.00
ATOM	803	HA	TRP	X	52	29.941	64.425	25.086	0.00	0.00
ATOM	804	CB	TRP	X	52	31.115	62.818	24.304	0.00	0.00
ATOM	805	HB2	TRP	X	52	31.299	63.311	23.349	0.00	0.00
ATOM	806	HB3	TRP	X	52	31.911	63.169	24.961	0.00	0.00
ATOM	807	CG	TRP	X	52	31.292	61.384	24.123	0.00	0.00
ATOM	808	CD1	TRP	X	52	31.243	60.755	22.881	0.00	0.00
ATOM	809	HD1	TRP	X	52	31.155	61.321	21.965	0.00	0.00
ATOM	810	NE1	TRP	X	52	31.221	59.390	23.087	0.00	0.00
ATOM	811	HE1	TRP	X	52	31.239	58.682	22.367	0.00	0.00
ATOM	812	CE2	TRP	X	52	31.358	59.084	24.407	0.00	0.00
ATOM	813	CZ2	TRP	X	52	31.492	57.800	24.973	0.00	0.00
ATOM	814	HZ2	TRP	X	52	31.341	56.915	24.373	0.00	0.00
ATOM	815	CH2	TRP	X	52	31.847	57.771	26.324	0.00	0.00
ATOM	816	HH2	TRP	X	52	32.014	56.761	26.667	0.00	0.00
ATOM	817	CZ3	TRP	X	52	31.991	58.923	27.097	0.00	0.00
ATOM	818	HZ3	TRP	X	52	32.224	58.743	28.136	0.00	0.00
ATOM	819	CE3	TRP	X	52	31.866	60.216	26.548	0.00	0.00
ATOM	820	HE3	TRP	X	52	32.016	61.155	27.059	0.00	0.00
ATOM	821	CD2	TRP	X	52	31.471	60.329	25.153	0.00	0.00
ATOM	822	C	TRP	X	52	28.808	63.361	23.621	0.00	0.00
ATOM	823	O	TRP	X	52	28.324	62.289	23.240	0.00	0.00
ATOM	824	N	SER	X	53	28.886	64.473	22.885	0.00	0.00
ATOM	825	H	SER	X	53	29.370	65.284	23.243	0.00	0.00
ATOM	826	CA	SER	X	53	28.403	64.588	21.410	0.00	0.00
ATOM	827	HA	SER	X	53	27.369	64.244	21.427	0.00	0.00
ATOM	828	CB	SER	X	53	28.321	65.999	20.824	0.00	0.00
ATOM	829	HB2	SER	X	53	29.383	66.241	20.784	0.00	0.00

ATOM	830	HB3	SER	X	53	28.134	65.831	19.764	0.00	0.00
ATOM	831	OG	SER	X	53	27.411	66.857	21.546	0.00	0.00
ATOM	832	HG	SER	X	53	26.745	67.269	20.991	0.00	0.00
ATOM	833	C	SER	X	53	29.173	63.601	20.445	0.00	0.00
ATOM	834	O	SER	X	53	30.383	63.645	20.507	0.00	0.00
ATOM	835	N	GLY	X	54	28.655	62.775	19.528	0.00	0.00
ATOM	836	H	GLY	X	54	27.648	62.776	19.455	0.00	0.00
ATOM	837	CA	GLY	X	54	29.442	62.149	18.540	0.00	0.00
ATOM	838	HA2	GLY	X	54	28.715	61.929	17.758	0.00	0.00
ATOM	839	HA3	GLY	X	54	30.146	62.820	18.049	0.00	0.00
ATOM	840	C	GLY	X	54	30.149	60.923	19.105	0.00	0.00
ATOM	841	O	GLY	X	54	29.518	60.103	19.790	0.00	0.00
ATOM	842	N	VAL	X	55	31.357	60.615	18.714	0.00	0.00
ATOM	843	H	VAL	X	55	31.743	61.253	18.033	0.00	0.00
ATOM	844	CA	VAL	X	55	32.109	59.428	19.007	0.00	0.00
ATOM	845	HA	VAL	X	55	31.433	58.796	19.583	0.00	0.00
ATOM	846	CB	VAL	X	55	32.485	58.830	17.621	0.00	0.00
ATOM	847	HB	VAL	X	55	33.073	59.602	17.124	0.00	0.00
ATOM	848	CG1	VAL	X	55	33.435	57.612	17.751	0.00	0.00
ATOM	849	HG11	VAL	X	55	34.423	57.899	18.112	0.00	0.00
ATOM	850	HG12	VAL	X	55	33.030	56.780	18.327	0.00	0.00
ATOM	851	HG13	VAL	X	55	33.564	57.236	16.736	0.00	0.00
ATOM	852	CG2	VAL	X	55	31.332	58.454	16.728	0.00	0.00
ATOM	853	HG21	VAL	X	55	30.754	59.374	16.641	0.00	0.00
ATOM	854	HG22	VAL	X	55	30.696	57.678	17.155	0.00	0.00
ATOM	855	HG23	VAL	X	55	31.681	58.137	15.745	0.00	0.00
ATOM	856	C	VAL	X	55	33.387	59.847	19.859	0.00	0.00
ATOM	857	O	VAL	X	55	33.916	60.959	19.708	0.00	0.00
ATOM	858	N	VAL	X	56	33.826	59.046	20.769	0.00	0.00
ATOM	859	H	VAL	X	56	33.291	58.211	20.959	0.00	0.00
ATOM	860	CA	VAL	X	56	35.201	59.028	21.387	0.00	0.00
ATOM	861	HA	VAL	X	56	35.671	59.914	20.961	0.00	0.00
ATOM	862	CB	VAL	X	56	35.045	59.179	22.906	0.00	0.00
ATOM	863	HB	VAL	X	56	34.179	58.608	23.242	0.00	0.00
ATOM	864	CG1	VAL	X	56	36.147	58.475	23.792	0.00	0.00
ATOM	865	HG11	VAL	X	56	36.005	58.690	24.851	0.00	0.00
ATOM	866	HG12	VAL	X	56	36.068	57.392	23.695	0.00	0.00
ATOM	867	HG13	VAL	X	56	37.147	58.867	23.604	0.00	0.00
ATOM	868	CG2	VAL	X	56	35.037	60.652	23.366	0.00	0.00
ATOM	869	HG21	VAL	X	56	34.087	61.061	23.020	0.00	0.00
ATOM	870	HG22	VAL	X	56	35.880	61.116	22.854	0.00	0.00
ATOM	871	HG23	VAL	X	56	35.119	60.725	24.450	0.00	0.00
ATOM	872	C	VAL	X	56	35.949	57.758	20.896	0.00	0.00
ATOM	873	O	VAL	X	56	35.370	56.763	20.541	0.00	0.00
ATOM	874	N	ASP	X	57	37.279	57.913	20.886	0.00	0.00
ATOM	875	H	ASP	X	57	37.649	58.757	21.300	0.00	0.00
ATOM	876	CA	ASP	X	57	38.291	56.877	20.424	0.00	0.00
ATOM	877	HA	ASP	X	57	37.940	56.426	19.496	0.00	0.00
ATOM	878	CB	ASP	X	57	39.526	57.632	19.959	0.00	0.00
ATOM	879	HB2	ASP	X	57	39.278	58.298	19.133	0.00	0.00
ATOM	880	HB3	ASP	X	57	39.843	58.357	20.709	0.00	0.00
ATOM	881	CG	ASP	X	57	40.785	56.871	19.589	0.00	0.00
ATOM	882	OD1	ASP	X	57	41.290	56.963	18.462	0.00	0.00
ATOM	883	OD2	ASP	X	57	41.275	56.003	20.316	0.00	0.00
ATOM	884	C	ASP	X	57	38.563	55.812	21.518	0.00	0.00
ATOM	885	O	ASP	X	57	38.839	56.140	22.652	0.00	0.00
ATOM	886	N	ALA	X	58	38.594	54.512	21.206	0.00	0.00
ATOM	887	H	ALA	X	58	38.325	54.173	20.293	0.00	0.00
ATOM	888	CA	ALA	X	58	38.761	53.411	22.174	0.00	0.00
ATOM	889	HA	ALA	X	58	39.244	53.726	23.099	0.00	0.00
ATOM	890	CB	ALA	X	58	37.456	52.701	22.412	0.00	0.00
ATOM	891	HB1	ALA	X	58	36.743	53.429	22.798	0.00	0.00
ATOM	892	HB2	ALA	X	58	37.539	51.963	23.210	0.00	0.00
ATOM	893	HB3	ALA	X	58	37.143	52.151	21.525	0.00	0.00
ATOM	894	C	ALA	X	58	39.879	52.439	21.619	0.00	0.00
ATOM	895	O	ALA	X	58	39.781	51.198	21.754	0.00	0.00
ATOM	896	N	THR	X	59	40.901	53.019	20.970	0.00	0.00

ATOM	897	H	THR	X	59	40.910	54.027	20.922	0.00	0.00
ATOM	898	CA	THR	X	59	41.817	52.350	20.111	0.00	0.00
ATOM	899	HA	THR	X	59	41.441	51.341	19.944	0.00	0.00
ATOM	900	CB	THR	X	59	41.957	53.122	18.797	0.00	0.00
ATOM	901	HB	THR	X	59	42.585	52.624	18.058	0.00	0.00
ATOM	902	CG2	THR	X	59	40.698	53.557	18.045	0.00	0.00
ATOM	903	HG21	THR	X	59	40.827	53.983	17.050	0.00	0.00
ATOM	904	HG22	THR	X	59	40.183	54.329	18.619	0.00	0.00
ATOM	905	HG23	THR	X	59	40.104	52.651	17.926	0.00	0.00
ATOM	906	OG1	THR	X	59	42.766	54.268	19.014	0.00	0.00
ATOM	907	HG1	THR	X	59	42.209	54.868	19.515	0.00	0.00
ATOM	908	C	THR	X	59	43.142	51.970	20.809	0.00	0.00
ATOM	909	O	THR	X	59	43.864	51.126	20.319	0.00	0.00
ATOM	910	N	THR	X	60	43.483	52.552	21.952	0.00	0.00
ATOM	911	H	THR	X	60	42.778	53.115	22.406	0.00	0.00
ATOM	912	CA	THR	X	60	44.798	52.528	22.657	0.00	0.00
ATOM	913	HA	THR	X	60	45.065	51.476	22.758	0.00	0.00
ATOM	914	CB	THR	X	60	45.843	53.180	21.766	0.00	0.00
ATOM	915	HB	THR	X	60	45.696	52.934	20.714	0.00	0.00
ATOM	916	CG2	THR	X	60	45.973	54.641	21.954	0.00	0.00
ATOM	917	HG21	THR	X	60	46.487	54.981	21.055	0.00	0.00
ATOM	918	HG22	THR	X	60	46.594	54.960	22.790	0.00	0.00
ATOM	919	HG23	THR	X	60	44.968	55.064	21.973	0.00	0.00
ATOM	920	OG1	THR	X	60	47.088	52.650	22.116	0.00	0.00
ATOM	921	HG1	THR	X	60	47.712	52.790	21.400	0.00	0.00
ATOM	922	C	THR	X	60	44.830	52.999	24.134	0.00	0.00
ATOM	923	O	THR	X	60	43.931	53.709	24.539	0.00	0.00
ATOM	924	N	PHE	X	61	45.743	52.472	24.930	0.00	0.00
ATOM	925	H	PHE	X	61	46.280	51.686	24.591	0.00	0.00
ATOM	926	CA	PHE	X	61	46.000	52.971	26.274	0.00	0.00
ATOM	927	HA	PHE	X	61	45.146	52.919	26.950	0.00	0.00
ATOM	928	CB	PHE	X	61	47.071	52.099	26.916	0.00	0.00
ATOM	929	HB2	PHE	X	61	47.966	52.103	26.294	0.00	0.00
ATOM	930	HB3	PHE	X	61	47.503	52.508	27.830	0.00	0.00
ATOM	931	CG	PHE	X	61	46.634	50.683	27.053	0.00	0.00
ATOM	932	CD1	PHE	X	61	45.678	50.317	27.965	0.00	0.00
ATOM	933	HD1	PHE	X	61	45.124	51.042	28.542	0.00	0.00
ATOM	934	CE1	PHE	X	61	45.442	48.959	28.180	0.00	0.00
ATOM	935	HE1	PHE	X	61	44.814	48.644	29.000	0.00	0.00
ATOM	936	CZ	PHE	X	61	46.120	47.962	27.470	0.00	0.00
ATOM	937	HZ	PHE	X	61	45.975	46.898	27.586	0.00	0.00
ATOM	938	CE2	PHE	X	61	47.032	48.336	26.452	0.00	0.00
ATOM	939	HE2	PHE	X	61	47.598	47.607	25.892	0.00	0.00
ATOM	940	CD2	PHE	X	61	47.183	49.743	26.231	0.00	0.00
ATOM	941	HD2	PHE	X	61	47.761	50.022	25.362	0.00	0.00
ATOM	942	C	PHE	X	61	46.469	54.393	26.193	0.00	0.00
ATOM	943	O	PHE	X	61	47.211	54.766	25.323	0.00	0.00
ATOM	944	N	GLN	X	62	45.941	55.264	27.077	0.00	0.00
ATOM	945	H	GLN	X	62	45.431	54.943	27.889	0.00	0.00
ATOM	946	CA	GLN	X	62	45.954	56.714	26.924	0.00	0.00
ATOM	947	HA	GLN	X	62	46.192	56.959	25.889	0.00	0.00
ATOM	948	CB	GLN	X	62	44.626	57.404	27.268	0.00	0.00
ATOM	949	HB2	GLN	X	62	44.427	57.160	28.312	0.00	0.00
ATOM	950	HB3	GLN	X	62	44.645	58.493	27.232	0.00	0.00
ATOM	951	CG	GLN	X	62	43.428	56.887	26.510	0.00	0.00
ATOM	952	HG2	GLN	X	62	43.340	55.801	26.536	0.00	0.00
ATOM	953	HG3	GLN	X	62	42.509	57.254	26.969	0.00	0.00
ATOM	954	CD	GLN	X	62	43.515	57.393	25.127	0.00	0.00
ATOM	955	OE1	GLN	X	62	43.629	58.592	24.971	0.00	0.00
ATOM	956	NE2	GLN	X	62	43.510	56.597	24.062	0.00	0.00
ATOM	957	HE21	GLN	X	62	43.440	56.944	23.116	0.00	0.00
ATOM	958	HE22	GLN	X	62	43.420	55.603	24.220	0.00	0.00
ATOM	959	C	GLN	X	62	46.991	57.414	27.786	0.00	0.00
ATOM	960	O	GLN	X	62	47.934	58.008	27.249	0.00	0.00
ATOM	961	N	SER	X	63	46.950	57.261	29.120	0.00	0.00
ATOM	962	H	SER	X	63	46.201	56.748	29.562	0.00	0.00
ATOM	963	CA	SER	X	63	48.033	57.616	30.067	0.00	0.00

ATOM	964	HA	SER	X	63	48.961	57.600	29.496	0.00	0.00
ATOM	965	CB	SER	X	63	47.892	59.032	30.678	0.00	0.00
ATOM	966	HB2	SER	X	63	48.858	59.477	30.919	0.00	0.00
ATOM	967	HB3	SER	X	63	47.583	59.650	29.836	0.00	0.00
ATOM	968	OG	SER	X	63	46.923	59.095	31.695	0.00	0.00
ATOM	969	HG	SER	X	63	46.432	59.917	31.630	0.00	0.00
ATOM	970	C	SER	X	63	48.112	56.528	31.252	0.00	0.00
ATOM	971	O	SER	X	63	47.388	55.501	31.183	0.00	0.00
ATOM	972	N	VAL	X	64	48.934	56.642	32.279	0.00	0.00
ATOM	973	H	VAL	X	64	49.495	57.482	32.261	0.00	0.00
ATOM	974	CA	VAL	X	64	48.970	55.754	33.514	0.00	0.00
ATOM	975	HA	VAL	X	64	48.197	54.991	33.613	0.00	0.00
ATOM	976	CB	VAL	X	64	50.406	55.054	33.473	0.00	0.00
ATOM	977	HB	VAL	X	64	51.177	55.823	33.448	0.00	0.00
ATOM	978	CG1	VAL	X	64	50.572	54.212	34.721	0.00	0.00
ATOM	979	HG11	VAL	X	64	50.623	54.766	35.658	0.00	0.00
ATOM	980	HG12	VAL	X	64	49.717	53.550	34.857	0.00	0.00
ATOM	981	HG13	VAL	X	64	51.391	53.496	34.653	0.00	0.00
ATOM	982	CG2	VAL	X	64	50.578	54.238	32.174	0.00	0.00
ATOM	983	HG21	VAL	X	64	50.553	54.768	31.222	0.00	0.00
ATOM	984	HG22	VAL	X	64	49.884	53.400	32.106	0.00	0.00
ATOM	985	HG23	VAL	X	64	51.538	53.733	32.074	0.00	0.00
ATOM	986	C	VAL	X	64	48.886	56.699	34.694	0.00	0.00
ATOM	987	O	VAL	X	64	49.457	57.790	34.676	0.00	0.00
ATOM	988	N	CYX	X	65	48.139	56.382	35.792	0.00	0.00
ATOM	989	H	CYX	X	65	47.653	55.501	35.706	0.00	0.00
ATOM	990	CA	CYX	X	65	48.094	57.113	37.057	0.00	0.00
ATOM	991	HA	CYX	X	65	47.641	58.084	36.855	0.00	0.00
ATOM	992	CB	CYX	X	65	47.195	56.386	37.997	0.00	0.00
ATOM	993	HB2	CYX	X	65	47.497	55.352	38.165	0.00	0.00
ATOM	994	HB3	CYX	X	65	47.198	56.906	38.954	0.00	0.00
ATOM	995	SG	CYX	X	65	45.539	56.175	37.330	0.00	0.00
ATOM	996	C	CYX	X	65	49.473	57.356	37.602	0.00	0.00
ATOM	997	O	CYX	X	65	50.168	56.342	37.846	0.00	0.00
ATOM	998	N	TYR	X	66	49.948	58.608	37.784	0.00	0.00
ATOM	999	H	TYR	X	66	49.442	59.348	37.318	0.00	0.00
ATOM	1000	CA	TYR	X	66	51.217	59.036	38.402	0.00	0.00
ATOM	1001	HA	TYR	X	66	52.002	58.845	37.670	0.00	0.00
ATOM	1002	CB	TYR	X	66	51.170	60.565	38.806	0.00	0.00
ATOM	1003	HB2	TYR	X	66	50.123	60.868	38.786	0.00	0.00
ATOM	1004	HB3	TYR	X	66	51.507	60.694	39.834	0.00	0.00
ATOM	1005	CG	TYR	X	66	51.998	61.494	37.952	0.00	0.00
ATOM	1006	CD1	TYR	X	66	51.345	62.529	37.313	0.00	0.00
ATOM	1007	HD1	TYR	X	66	50.295	62.670	37.520	0.00	0.00
ATOM	1008	CE1	TYR	X	66	51.989	63.500	36.481	0.00	0.00
ATOM	1009	HE1	TYR	X	66	51.482	64.356	36.061	0.00	0.00
ATOM	1010	CZ	TYR	X	66	53.346	63.280	36.247	0.00	0.00
ATOM	1011	OH	TYR	X	66	54.000	64.204	35.461	0.00	0.00
ATOM	1012	HH	TYR	X	66	53.385	64.776	34.996	0.00	0.00
ATOM	1013	CE2	TYR	X	66	54.023	62.137	36.804	0.00	0.00
ATOM	1014	HE2	TYR	X	66	55.093	62.019	36.723	0.00	0.00
ATOM	1015	CD2	TYR	X	66	53.338	61.288	37.691	0.00	0.00
ATOM	1016	HD2	TYR	X	66	53.828	60.420	38.105	0.00	0.00
ATOM	1017	C	TYR	X	66	51.704	58.140	39.586	0.00	0.00
ATOM	1018	O	TYR	X	66	51.017	57.907	40.605	0.00	0.00
ATOM	1019	N	GLN	X	67	53.008	57.683	39.469	0.00	0.00
ATOM	1020	H	GLN	X	67	53.658	58.051	38.789	0.00	0.00
ATOM	1021	CA	GLN	X	67	53.640	56.761	40.347	0.00	0.00
ATOM	1022	HA	GLN	X	67	53.394	56.940	41.393	0.00	0.00
ATOM	1023	CB	GLN	X	67	53.130	55.344	40.089	0.00	0.00
ATOM	1024	HB2	GLN	X	67	53.578	54.798	40.920	0.00	0.00
ATOM	1025	HB3	GLN	X	67	52.067	55.351	40.331	0.00	0.00
ATOM	1026	CG	GLN	X	67	53.421	54.748	38.644	0.00	0.00
ATOM	1027	HG2	GLN	X	67	53.081	55.562	38.003	0.00	0.00
ATOM	1028	HG3	GLN	X	67	54.480	54.590	38.441	0.00	0.00
ATOM	1029	CD	GLN	X	67	52.470	53.511	38.390	0.00	0.00
ATOM	1030	OE1	GLN	X	67	52.900	52.344	38.449	0.00	0.00

ATOM	1031	NE2	GLN	X	67	51.212	53.763	38.288	0.00	0.00
ATOM	1032	HE21	GLN	X	67	50.507	53.070	38.081	0.00	0.00
ATOM	1033	HE22	GLN	X	67	50.929	54.731	38.223	0.00	0.00
ATOM	1034	C	GLN	X	67	55.200	56.810	40.229	0.00	0.00
ATOM	1035	O	GLN	X	67	55.627	57.290	39.204	0.00	0.00
ATOM	1036	N	TYR	X	68	56.000	56.309	41.198	0.00	0.00
ATOM	1037	H	TYR	X	68	55.520	55.935	42.004	0.00	0.00
ATOM	1038	CA	TYR	X	68	57.417	55.832	40.995	0.00	0.00
ATOM	1039	HA	TYR	X	68	58.009	56.715	40.756	0.00	0.00
ATOM	1040	CB	TYR	X	68	57.965	55.380	42.386	0.00	0.00
ATOM	1041	HB2	TYR	X	68	57.983	56.287	42.989	0.00	0.00
ATOM	1042	HB3	TYR	X	68	57.318	54.639	42.856	0.00	0.00
ATOM	1043	CG	TYR	X	68	59.325	54.787	42.482	0.00	0.00
ATOM	1044	CD1	TYR	X	68	60.400	55.633	42.710	0.00	0.00
ATOM	1045	HD1	TYR	X	68	60.255	56.700	42.793	0.00	0.00
ATOM	1046	CE1	TYR	X	68	61.677	55.086	42.752	0.00	0.00
ATOM	1047	HE1	TYR	X	68	62.606	55.636	42.800	0.00	0.00
ATOM	1048	CZ	TYR	X	68	61.890	53.682	42.576	0.00	0.00
ATOM	1049	OH	TYR	X	68	63.173	53.144	42.518	0.00	0.00
ATOM	1050	HH	TYR	X	68	63.933	53.715	42.380	0.00	0.00
ATOM	1051	CE2	TYR	X	68	60.744	52.801	42.399	0.00	0.00
ATOM	1052	HE2	TYR	X	68	60.871	51.736	42.278	0.00	0.00
ATOM	1053	CD2	TYR	X	68	59.480	53.422	42.360	0.00	0.00
ATOM	1054	HD2	TYR	X	68	58.578	52.829	42.362	0.00	0.00
ATOM	1055	C	TYR	X	68	57.643	54.679	39.931	0.00	0.00
ATOM	1056	O	TYR	X	68	56.752	53.846	39.698	0.00	0.00
ATOM	1057	N	VAL	X	69	58.811	54.692	39.289	0.00	0.00
ATOM	1058	H	VAL	X	69	59.528	55.295	39.665	0.00	0.00
ATOM	1059	CA	VAL	X	69	59.329	53.688	38.351	0.00	0.00
ATOM	1060	HA	VAL	X	69	58.725	52.786	38.451	0.00	0.00
ATOM	1061	CB	VAL	X	69	59.201	54.336	36.906	0.00	0.00
ATOM	1062	HB	VAL	X	69	59.803	53.659	36.300	0.00	0.00
ATOM	1063	CG1	VAL	X	69	57.723	54.163	36.475	0.00	0.00
ATOM	1064	HG11	VAL	X	69	57.103	54.529	37.293	0.00	0.00
ATOM	1065	HG12	VAL	X	69	57.494	54.785	35.610	0.00	0.00
ATOM	1066	HG13	VAL	X	69	57.404	53.170	36.156	0.00	0.00
ATOM	1067	CG2	VAL	X	69	59.640	55.779	36.634	0.00	0.00
ATOM	1068	HG21	VAL	X	69	58.997	56.412	37.244	0.00	0.00
ATOM	1069	HG22	VAL	X	69	59.470	56.060	35.594	0.00	0.00
ATOM	1070	HG23	VAL	X	69	60.681	56.008	36.866	0.00	0.00
ATOM	1071	C	VAL	X	69	60.774	53.370	38.622	0.00	0.00
ATOM	1072	O	VAL	X	69	61.541	54.189	39.122	0.00	0.00
ATOM	1073	N	ASP	X	70	61.110	52.136	38.331	0.00	0.00
ATOM	1074	H	ASP	X	70	60.445	51.548	37.850	0.00	0.00
ATOM	1075	CA	ASP	X	70	62.206	51.446	39.048	0.00	0.00
ATOM	1076	HA	ASP	X	70	62.069	51.728	40.091	0.00	0.00
ATOM	1077	CB	ASP	X	70	61.956	49.939	38.946	0.00	0.00
ATOM	1078	HB2	ASP	X	70	60.964	49.782	39.370	0.00	0.00
ATOM	1079	HB3	ASP	X	70	61.975	49.628	37.902	0.00	0.00
ATOM	1080	CG	ASP	X	70	62.888	49.028	39.830	0.00	0.00
ATOM	1081	OD1	ASP	X	70	63.965	48.702	39.316	0.00	0.00
ATOM	1082	OD2	ASP	X	70	62.616	48.790	41.046	0.00	0.00
ATOM	1083	C	ASP	X	70	63.595	51.897	38.627	0.00	0.00
ATOM	1084	O	ASP	X	70	63.926	51.879	37.436	0.00	0.00
ATOM	1085	N	THR	X	71	64.365	52.334	39.587	0.00	0.00
ATOM	1086	H	THR	X	71	63.961	52.407	40.510	0.00	0.00
ATOM	1087	CA	THR	X	71	65.685	52.982	39.310	0.00	0.00
ATOM	1088	HA	THR	X	71	65.602	53.443	38.326	0.00	0.00
ATOM	1089	CB	THR	X	71	65.810	54.227	40.272	0.00	0.00
ATOM	1090	HB	THR	X	71	66.751	54.723	40.035	0.00	0.00
ATOM	1091	CG2	THR	X	71	64.686	55.175	39.979	0.00	0.00
ATOM	1092	HG21	THR	X	71	63.726	54.783	40.312	0.00	0.00
ATOM	1093	HG22	THR	X	71	64.405	55.202	38.926	0.00	0.00
ATOM	1094	HG23	THR	X	71	64.941	56.085	40.523	0.00	0.00
ATOM	1095	OG1	THR	X	71	65.772	53.888	41.581	0.00	0.00
ATOM	1096	HG1	THR	X	71	65.916	54.719	42.041	0.00	0.00
ATOM	1097	C	THR	X	71	66.872	51.977	39.501	0.00	0.00

ATOM	1098	O	THR	X	71	67.972	52.253	39.109	0.00	0.00
ATOM	1099	N	LEU	X	72	66.526	50.777	40.049	0.00	0.00
ATOM	1100	H	LEU	X	72	65.557	50.673	40.314	0.00	0.00
ATOM	1101	CA	LEU	X	72	67.465	49.785	40.429	0.00	0.00
ATOM	1102	HA	LEU	X	72	68.444	50.194	40.678	0.00	0.00
ATOM	1103	CB	LEU	X	72	66.957	49.099	41.743	0.00	0.00
ATOM	1104	HB2	LEU	X	72	66.650	49.882	42.437	0.00	0.00
ATOM	1105	HB3	LEU	X	72	66.023	48.573	41.543	0.00	0.00
ATOM	1106	CG	LEU	X	72	67.810	48.103	42.508	0.00	0.00
ATOM	1107	HG	LEU	X	72	68.102	47.364	41.762	0.00	0.00
ATOM	1108	CD1	LEU	X	72	68.993	48.872	43.029	0.00	0.00
ATOM	1109	HD11	LEU	X	72	69.476	49.420	42.219	0.00	0.00
ATOM	1110	HD12	LEU	X	72	69.729	48.142	43.364	0.00	0.00
ATOM	1111	HD13	LEU	X	72	68.760	49.496	43.892	0.00	0.00
ATOM	1112	CD2	LEU	X	72	66.943	47.456	43.572	0.00	0.00
ATOM	1113	HD21	LEU	X	72	66.154	48.103	43.955	0.00	0.00
ATOM	1114	HD22	LEU	X	72	66.380	46.633	43.132	0.00	0.00
ATOM	1115	HD23	LEU	X	72	67.656	47.099	44.315	0.00	0.00
ATOM	1116	C	LEU	X	72	67.723	48.649	39.418	0.00	0.00
ATOM	1117	O	LEU	X	72	68.884	48.278	39.259	0.00	0.00
ATOM	1118	N	TYR	X	73	66.755	48.097	38.654	0.00	0.00
ATOM	1119	H	TYR	X	73	65.817	48.362	38.919	0.00	0.00
ATOM	1120	CA	TYR	X	73	67.068	47.160	37.628	0.00	0.00
ATOM	1121	HA	TYR	X	73	68.152	47.158	37.517	0.00	0.00
ATOM	1122	CB	TYR	X	73	66.615	45.810	38.160	0.00	0.00
ATOM	1123	HB2	TYR	X	73	65.541	45.883	38.333	0.00	0.00
ATOM	1124	HB3	TYR	X	73	66.783	45.013	37.435	0.00	0.00
ATOM	1125	CG	TYR	X	73	67.266	45.299	39.463	0.00	0.00
ATOM	1126	CD1	TYR	X	73	68.706	45.405	39.677	0.00	0.00
ATOM	1127	HD1	TYR	X	73	69.288	45.870	38.896	0.00	0.00
ATOM	1128	CE1	TYR	X	73	69.219	45.100	40.918	0.00	0.00
ATOM	1129	HE1	TYR	X	73	70.270	45.258	41.108	0.00	0.00
ATOM	1130	CZ	TYR	X	73	68.425	44.513	41.944	0.00	0.00
ATOM	1131	OH	TYR	X	73	68.954	44.200	43.163	0.00	0.00
ATOM	1132	HH	TYR	X	73	68.380	43.769	43.801	0.00	0.00
ATOM	1133	CE2	TYR	X	73	67.055	44.232	41.661	0.00	0.00
ATOM	1134	HE2	TYR	X	73	66.414	43.869	42.450	0.00	0.00
ATOM	1135	CD2	TYR	X	73	66.526	44.606	40.435	0.00	0.00
ATOM	1136	HD2	TYR	X	73	65.453	44.603	40.305	0.00	0.00
ATOM	1137	C	TYR	X	73	66.307	47.520	36.337	0.00	0.00
ATOM	1138	O	TYR	X	73	65.340	46.767	35.999	0.00	0.00
ATOM	1139	N	PRO	X	74	66.585	48.673	35.729	0.00	0.00
ATOM	1140	CD	PRO	X	74	67.557	49.667	36.262	0.00	0.00
ATOM	1141	HD2	PRO	X	74	68.572	49.419	36.571	0.00	0.00
ATOM	1142	HD3	PRO	X	74	67.057	50.091	37.133	0.00	0.00
ATOM	1143	CG	PRO	X	74	67.708	50.737	35.209	0.00	0.00
ATOM	1144	HG2	PRO	X	74	68.491	50.586	34.466	0.00	0.00
ATOM	1145	HG3	PRO	X	74	67.771	51.784	35.506	0.00	0.00
ATOM	1146	CB	PRO	X	74	66.396	50.528	34.406	0.00	0.00
ATOM	1147	HB2	PRO	X	74	66.589	51.003	33.444	0.00	0.00
ATOM	1148	HB3	PRO	X	74	65.643	51.148	34.893	0.00	0.00
ATOM	1149	CA	PRO	X	74	65.973	49.068	34.473	0.00	0.00
ATOM	1150	HA	PRO	X	74	64.888	48.962	34.509	0.00	0.00
ATOM	1151	C	PRO	X	74	66.464	48.280	33.299	0.00	0.00
ATOM	1152	O	PRO	X	74	67.681	48.163	33.103	0.00	0.00
ATOM	1153	N	GLY	X	75	65.569	47.745	32.472	0.00	0.00
ATOM	1154	H	GLY	X	75	64.595	47.797	32.734	0.00	0.00
ATOM	1155	CA	GLY	X	75	65.876	47.037	31.193	0.00	0.00
ATOM	1156	HA2	GLY	X	75	65.100	47.065	30.428	0.00	0.00
ATOM	1157	HA3	GLY	X	75	66.733	47.551	30.757	0.00	0.00
ATOM	1158	C	GLY	X	75	66.233	45.576	31.407	0.00	0.00
ATOM	1159	O	GLY	X	75	66.663	44.954	30.491	0.00	0.00
ATOM	1160	N	PHE	X	76	66.033	45.082	32.600	0.00	0.00
ATOM	1161	H	PHE	X	76	65.584	45.766	33.192	0.00	0.00
ATOM	1162	CA	PHE	X	76	66.065	43.681	32.931	0.00	0.00
ATOM	1163	HA	PHE	X	76	66.956	43.241	32.484	0.00	0.00
ATOM	1164	CB	PHE	X	76	66.309	43.610	34.526	0.00	0.00

ATOM	1165	HB2	PHE	X	76	67.191	44.196	34.787	0.00	0.00
ATOM	1166	HB3	PHE	X	76	65.529	44.186	35.022	0.00	0.00
ATOM	1167	CG	PHE	X	76	66.261	42.210	35.156	0.00	0.00
ATOM	1168	CD1	PHE	X	76	66.877	41.047	34.588	0.00	0.00
ATOM	1169	HD1	PHE	X	76	67.524	41.206	33.738	0.00	0.00
ATOM	1170	CE1	PHE	X	76	66.658	39.833	35.247	0.00	0.00
ATOM	1171	HE1	PHE	X	76	67.139	38.978	34.795	0.00	0.00
ATOM	1172	CZ	PHE	X	76	65.932	39.755	36.499	0.00	0.00
ATOM	1173	HZ	PHE	X	76	65.810	38.747	36.866	0.00	0.00
ATOM	1174	CE2	PHE	X	76	65.322	40.923	36.992	0.00	0.00
ATOM	1175	HE2	PHE	X	76	64.650	40.810	37.830	0.00	0.00
ATOM	1176	CD2	PHE	X	76	65.450	42.127	36.274	0.00	0.00
ATOM	1177	HD2	PHE	X	76	64.972	42.989	36.716	0.00	0.00
ATOM	1178	C	PHE	X	76	64.829	42.990	32.462	0.00	0.00
ATOM	1179	O	PHE	X	76	63.751	43.386	32.736	0.00	0.00
ATOM	1180	N	GLU	X	77	65.085	41.841	31.841	0.00	0.00
ATOM	1181	H	GLU	X	77	66.055	41.560	31.840	0.00	0.00
ATOM	1182	CA	GLU	X	77	64.093	40.995	31.218	0.00	0.00
ATOM	1183	HA	GLU	X	77	63.697	41.616	30.414	0.00	0.00
ATOM	1184	CB	GLU	X	77	64.946	39.814	30.594	0.00	0.00
ATOM	1185	HB2	GLU	X	77	65.444	39.299	31.416	0.00	0.00
ATOM	1186	HB3	GLU	X	77	64.252	39.008	30.354	0.00	0.00
ATOM	1187	CG	GLU	X	77	65.966	40.089	29.499	0.00	0.00
ATOM	1188	HG2	GLU	X	77	66.423	39.141	29.216	0.00	0.00
ATOM	1189	HG3	GLU	X	77	65.589	40.630	28.630	0.00	0.00
ATOM	1190	CD	GLU	X	77	67.225	40.853	30.029	0.00	0.00
ATOM	1191	OE1	GLU	X	77	67.509	40.747	31.258	0.00	0.00
ATOM	1192	OE2	GLU	X	77	67.857	41.708	29.348	0.00	0.00
ATOM	1193	C	GLU	X	77	62.975	40.511	32.219	0.00	0.00
ATOM	1194	O	GLU	X	77	61.902	40.113	31.779	0.00	0.00
ATOM	1195	N	GLY	X	78	63.335	40.374	33.487	0.00	0.00
ATOM	1196	H	GLY	X	78	64.333	40.391	33.644	0.00	0.00
ATOM	1197	CA	GLY	X	78	62.471	39.767	34.525	0.00	0.00
ATOM	1198	HA2	GLY	X	78	61.876	38.971	34.075	0.00	0.00
ATOM	1199	HA3	GLY	X	78	62.955	39.320	35.394	0.00	0.00
ATOM	1200	C	GLY	X	78	61.484	40.831	35.107	0.00	0.00
ATOM	1201	O	GLY	X	78	60.562	40.366	35.827	0.00	0.00
ATOM	1202	N	THR	X	79	61.710	42.170	34.972	0.00	0.00
ATOM	1203	H	THR	X	79	62.490	42.498	34.420	0.00	0.00
ATOM	1204	CA	THR	X	79	60.767	43.118	35.377	0.00	0.00
ATOM	1205	HA	THR	X	79	59.857	42.567	35.617	0.00	0.00
ATOM	1206	CB	THR	X	79	61.258	43.869	36.642	0.00	0.00
ATOM	1207	HB	THR	X	79	60.468	44.509	37.037	0.00	0.00
ATOM	1208	CG2	THR	X	79	61.566	42.834	37.805	0.00	0.00
ATOM	1209	HG21	THR	X	79	60.596	42.647	38.266	0.00	0.00
ATOM	1210	HG22	THR	X	79	62.309	43.206	38.510	0.00	0.00
ATOM	1211	HG23	THR	X	79	62.059	41.902	37.531	0.00	0.00
ATOM	1212	OG1	THR	X	79	62.520	44.500	36.461	0.00	0.00
ATOM	1213	HG1	THR	X	79	62.788	44.981	37.247	0.00	0.00
ATOM	1214	C	THR	X	79	60.339	43.943	34.176	0.00	0.00
ATOM	1215	O	THR	X	79	59.604	44.879	34.279	0.00	0.00
ATOM	1216	N	GLU	X	80	60.931	43.737	32.945	0.00	0.00
ATOM	1217	H	GLU	X	80	61.609	42.989	32.909	0.00	0.00
ATOM	1218	CA	GLU	X	80	60.765	44.441	31.687	0.00	0.00
ATOM	1219	HA	GLU	X	80	61.133	45.452	31.859	0.00	0.00
ATOM	1220	CB	GLU	X	80	61.434	43.755	30.523	0.00	0.00
ATOM	1221	HB2	GLU	X	80	62.448	43.527	30.853	0.00	0.00
ATOM	1222	HB3	GLU	X	80	60.970	42.780	30.369	0.00	0.00
ATOM	1223	CG	GLU	X	80	61.532	44.465	29.199	0.00	0.00
ATOM	1224	HG2	GLU	X	80	61.708	43.801	28.352	0.00	0.00
ATOM	1225	HG3	GLU	X	80	60.578	44.950	28.995	0.00	0.00
ATOM	1226	CD	GLU	X	80	62.630	45.513	29.181	0.00	0.00
ATOM	1227	OE1	GLU	X	80	63.661	45.301	28.576	0.00	0.00
ATOM	1228	OE2	GLU	X	80	62.512	46.612	29.772	0.00	0.00
ATOM	1229	C	GLU	X	80	59.270	44.772	31.335	0.00	0.00
ATOM	1230	O	GLU	X	80	58.871	45.842	30.854	0.00	0.00
ATOM	1231	N	MET	X	81	58.426	43.718	31.613	0.00	0.00

ATOM	1232	H	MET	X	81	58.826	42.984	32.179	0.00	0.00
ATOM	1233	CA	MET	X	81	57.008	43.793	31.366	0.00	0.00
ATOM	1234	HA	MET	X	81	56.807	44.092	30.337	0.00	0.00
ATOM	1235	CB	MET	X	81	56.453	42.367	31.493	0.00	0.00
ATOM	1236	HB2	MET	X	81	55.507	42.323	30.954	0.00	0.00
ATOM	1237	HB3	MET	X	81	57.090	41.700	30.910	0.00	0.00
ATOM	1238	CG	MET	X	81	56.516	41.869	32.958	0.00	0.00
ATOM	1239	HG2	MET	X	81	55.979	42.596	33.567	0.00	0.00
ATOM	1240	HG3	MET	X	81	55.930	40.954	32.885	0.00	0.00
ATOM	1241	SD	MET	X	81	58.103	41.537	33.729	0.00	0.00
ATOM	1242	CE	MET	X	81	58.696	40.169	32.689	0.00	0.00
ATOM	1243	HE1	MET	X	81	59.181	40.574	31.801	0.00	0.00
ATOM	1244	HE2	MET	X	81	59.533	39.705	33.213	0.00	0.00
ATOM	1245	HE3	MET	X	81	57.944	39.414	32.460	0.00	0.00
ATOM	1246	C	MET	X	81	56.314	44.770	32.343	0.00	0.00
ATOM	1247	O	MET	X	81	55.207	45.248	32.038	0.00	0.00
ATOM	1248	N	TRP	X	82	56.938	45.057	33.477	0.00	0.00
ATOM	1249	H	TRP	X	82	57.835	44.632	33.668	0.00	0.00
ATOM	1250	CA	TRP	X	82	56.390	45.931	34.570	0.00	0.00
ATOM	1251	HA	TRP	X	82	55.302	45.993	34.577	0.00	0.00
ATOM	1252	CB	TRP	X	82	56.861	45.351	35.933	0.00	0.00
ATOM	1253	HB2	TRP	X	82	57.942	45.487	35.929	0.00	0.00
ATOM	1254	HB3	TRP	X	82	56.491	45.966	36.753	0.00	0.00
ATOM	1255	CG	TRP	X	82	56.649	43.960	36.359	0.00	0.00
ATOM	1256	CD1	TRP	X	82	57.643	43.255	36.946	0.00	0.00
ATOM	1257	HD1	TRP	X	82	58.638	43.571	37.223	0.00	0.00
ATOM	1258	NE1	TRP	X	82	57.225	41.923	37.189	0.00	0.00
ATOM	1259	HE1	TRP	X	82	57.817	41.148	37.451	0.00	0.00
ATOM	1260	CE2	TRP	X	82	55.948	41.745	36.905	0.00	0.00
ATOM	1261	CZ2	TRP	X	82	55.002	40.703	37.066	0.00	0.00
ATOM	1262	HZ2	TRP	X	82	55.263	39.802	37.602	0.00	0.00
ATOM	1263	CH2	TRP	X	82	53.678	40.908	36.659	0.00	0.00
ATOM	1264	HH2	TRP	X	82	52.935	40.124	36.635	0.00	0.00
ATOM	1265	CZ3	TRP	X	82	53.257	42.124	35.998	0.00	0.00
ATOM	1266	HZ3	TRP	X	82	52.275	42.175	35.551	0.00	0.00
ATOM	1267	CE3	TRP	X	82	54.213	43.167	35.917	0.00	0.00
ATOM	1268	HE3	TRP	X	82	53.866	44.064	35.426	0.00	0.00
ATOM	1269	CD2	TRP	X	82	55.520	43.002	36.387	0.00	0.00
ATOM	1270	C	TRP	X	82	56.771	47.405	34.502	0.00	0.00
ATOM	1271	O	TRP	X	82	56.268	48.171	35.341	0.00	0.00
ATOM	1272	N	ASN	X	83	57.592	47.836	33.562	0.00	0.00
ATOM	1273	H	ASN	X	83	58.278	47.194	33.190	0.00	0.00
ATOM	1274	CA	ASN	X	83	57.729	49.291	33.211	0.00	0.00
ATOM	1275	HA	ASN	X	83	58.099	49.830	34.083	0.00	0.00
ATOM	1276	CB	ASN	X	83	58.910	49.383	32.213	0.00	0.00
ATOM	1277	HB2	ASN	X	83	59.775	48.861	32.622	0.00	0.00
ATOM	1278	HB3	ASN	X	83	58.623	48.937	31.261	0.00	0.00
ATOM	1279	CG	ASN	X	83	59.104	50.850	31.866	0.00	0.00
ATOM	1280	OD1	ASN	X	83	59.737	51.527	32.690	0.00	0.00
ATOM	1281	ND2	ASN	X	83	58.914	51.291	30.665	0.00	0.00
ATOM	1282	HD21	ASN	X	83	58.979	52.277	30.456	0.00	0.00
ATOM	1283	HD22	ASN	X	83	58.460	50.672	30.009	0.00	0.00
ATOM	1284	C	ASN	X	83	56.515	49.916	32.528	0.00	0.00
ATOM	1285	O	ASN	X	83	56.037	49.345	31.537	0.00	0.00
ATOM	1286	N	PRO	X	84	55.940	51.006	33.007	0.00	0.00
ATOM	1287	CD	PRO	X	84	56.164	51.507	34.328	0.00	0.00
ATOM	1288	HD2	PRO	X	84	57.174	51.818	34.595	0.00	0.00
ATOM	1289	HD3	PRO	X	84	55.858	50.653	34.932	0.00	0.00
ATOM	1290	CG	PRO	X	84	55.132	52.667	34.503	0.00	0.00
ATOM	1291	HG2	PRO	X	84	55.638	53.631	34.444	0.00	0.00
ATOM	1292	HG3	PRO	X	84	54.661	52.546	35.478	0.00	0.00
ATOM	1293	CB	PRO	X	84	54.193	52.563	33.329	0.00	0.00
ATOM	1294	HB2	PRO	X	84	54.020	53.535	32.868	0.00	0.00
ATOM	1295	HB3	PRO	X	84	53.177	52.287	33.610	0.00	0.00
ATOM	1296	CA	PRO	X	84	54.856	51.639	32.313	0.00	0.00
ATOM	1297	HA	PRO	X	84	54.183	50.889	31.898	0.00	0.00
ATOM	1298	C	PRO	X	84	55.367	52.473	31.157	0.00	0.00

ATOM	1299	O	PRO	X	84	56.020	53.529	31.378	0.00	0.00
ATOM	1300	N	ASN	X	85	54.942	52.036	29.957	0.00	0.00
ATOM	1301	H	ASN	X	85	54.366	51.209	29.883	0.00	0.00
ATOM	1302	CA	ASN	X	85	55.413	52.640	28.701	0.00	0.00
ATOM	1303	HA	ASN	X	85	56.467	52.891	28.817	0.00	0.00
ATOM	1304	CB	ASN	X	85	55.501	51.644	27.559	0.00	0.00
ATOM	1305	HB2	ASN	X	85	56.088	52.053	26.737	0.00	0.00
ATOM	1306	HB3	ASN	X	85	55.989	50.750	27.949	0.00	0.00
ATOM	1307	CG	ASN	X	85	54.330	51.231	26.680	0.00	0.00
ATOM	1308	OD1	ASN	X	85	53.249	50.869	27.136	0.00	0.00
ATOM	1309	ND2	ASN	X	85	54.432	51.150	25.379	0.00	0.00
ATOM	1310	HD21	ASN	X	85	53.678	50.739	24.847	0.00	0.00
ATOM	1311	HD22	ASN	X	85	55.309	51.447	24.976	0.00	0.00
ATOM	1312	C	ASN	X	85	54.518	53.799	28.166	0.00	0.00
ATOM	1313	O	ASN	X	85	54.983	54.580	27.323	0.00	0.00
ATOM	1314	N	ARG	X	86	53.225	53.925	28.566	0.00	0.00
ATOM	1315	H	ARG	X	86	52.806	53.206	29.139	0.00	0.00
ATOM	1316	CA	ARG	X	86	52.493	55.150	28.369	0.00	0.00
ATOM	1317	HA	ARG	X	86	52.842	55.670	27.476	0.00	0.00
ATOM	1318	CB	ARG	X	86	51.010	54.816	28.261	0.00	0.00
ATOM	1319	HB2	ARG	X	86	50.779	53.992	28.937	0.00	0.00
ATOM	1320	HB3	ARG	X	86	50.396	55.695	28.457	0.00	0.00
ATOM	1321	CG	ARG	X	86	50.649	54.325	26.821	0.00	0.00
ATOM	1322	HG2	ARG	X	86	51.474	53.735	26.423	0.00	0.00
ATOM	1323	HG3	ARG	X	86	49.790	53.662	26.924	0.00	0.00
ATOM	1324	CD	ARG	X	86	50.328	55.569	26.009	0.00	0.00
ATOM	1325	HD2	ARG	X	86	49.518	56.101	26.507	0.00	0.00
ATOM	1326	HD3	ARG	X	86	51.065	56.360	26.153	0.00	0.00
ATOM	1327	NE	ARG	X	86	50.074	55.411	24.509	0.00	0.00
ATOM	1328	HE	ARG	X	86	50.029	54.431	24.269	0.00	0.00
ATOM	1329	CZ	ARG	X	86	49.646	56.303	23.725	0.00	0.00
ATOM	1330	NH1	ARG	X	86	49.594	57.583	24.017	0.00	0.00
ATOM	1331	HH11	ARG	X	86	49.701	57.859	24.983	0.00	0.00
ATOM	1332	HH12	ARG	X	86	49.480	58.270	23.285	0.00	0.00
ATOM	1333	NH2	ARG	X	86	49.290	55.975	22.555	0.00	0.00
ATOM	1334	HH21	ARG	X	86	49.504	55.014	22.326	0.00	0.00
ATOM	1335	HH22	ARG	X	86	49.099	56.666	21.843	0.00	0.00
ATOM	1336	C	ARG	X	86	52.816	56.112	29.449	0.00	0.00
ATOM	1337	O	ARG	X	86	53.352	55.711	30.463	0.00	0.00
ATOM	1338	N	GLU	X	87	52.595	57.401	29.162	0.00	0.00
ATOM	1339	H	GLU	X	87	52.208	57.536	28.239	0.00	0.00
ATOM	1340	CA	GLU	X	87	52.992	58.518	29.906	0.00	0.00
ATOM	1341	HA	GLU	X	87	54.019	58.448	30.264	0.00	0.00
ATOM	1342	CB	GLU	X	87	52.739	59.798	29.098	0.00	0.00
ATOM	1343	HB2	GLU	X	87	53.057	59.651	28.066	0.00	0.00
ATOM	1344	HB3	GLU	X	87	51.670	59.988	29.006	0.00	0.00
ATOM	1345	CG	GLU	X	87	53.445	61.001	29.757	0.00	0.00
ATOM	1346	HG2	GLU	X	87	53.327	61.870	29.111	0.00	0.00
ATOM	1347	HG3	GLU	X	87	52.898	61.255	30.665	0.00	0.00
ATOM	1348	CD	GLU	X	87	54.928	60.880	30.058	0.00	0.00
ATOM	1349	OE1	GLU	X	87	55.200	60.799	31.265	0.00	0.00
ATOM	1350	OE2	GLU	X	87	55.819	61.025	29.199	0.00	0.00
ATOM	1351	C	GLU	X	87	52.133	58.600	31.161	0.00	0.00
ATOM	1352	O	GLU	X	87	50.919	58.352	31.128	0.00	0.00
ATOM	1353	N	LEU	X	88	52.799	58.973	32.259	0.00	0.00
ATOM	1354	H	LEU	X	88	53.706	59.405	32.154	0.00	0.00
ATOM	1355	CA	LEU	X	88	52.168	59.049	33.584	0.00	0.00
ATOM	1356	HA	LEU	X	88	51.447	58.247	33.741	0.00	0.00
ATOM	1357	CB	LEU	X	88	53.352	58.854	34.498	0.00	0.00
ATOM	1358	HB2	LEU	X	88	54.300	59.119	34.031	0.00	0.00
ATOM	1359	HB3	LEU	X	88	53.324	59.582	35.309	0.00	0.00
ATOM	1360	CG	LEU	X	88	53.496	57.353	34.956	0.00	0.00
ATOM	1361	HG	LEU	X	88	52.557	56.919	35.300	0.00	0.00
ATOM	1362	CD1	LEU	X	88	53.866	56.461	33.762	0.00	0.00
ATOM	1363	HD11	LEU	X	88	53.058	56.641	33.053	0.00	0.00
ATOM	1364	HD12	LEU	X	88	53.861	55.403	34.026	0.00	0.00
ATOM	1365	HD13	LEU	X	88	54.798	56.802	33.311	0.00	0.00

ATOM	1366	CD2	LEU	X	88	54.501	57.211	36.104	0.00	0.00
ATOM	1367	HD21	LEU	X	88	55.443	57.643	35.766	0.00	0.00
ATOM	1368	HD22	LEU	X	88	54.178	57.838	36.934	0.00	0.00
ATOM	1369	HD23	LEU	X	88	54.757	56.252	36.555	0.00	0.00
ATOM	1370	C	LEU	X	88	51.476	60.420	33.728	0.00	0.00
ATOM	1371	O	LEU	X	88	52.072	61.467	33.538	0.00	0.00
ATOM	1372	N	SER	X	89	50.222	60.449	34.190	0.00	0.00
ATOM	1373	H	SER	X	89	49.874	59.552	34.496	0.00	0.00
ATOM	1374	CA	SER	X	89	49.476	61.733	34.574	0.00	0.00
ATOM	1375	HA	SER	X	89	50.215	62.445	34.943	0.00	0.00
ATOM	1376	CB	SER	X	89	48.858	62.170	33.261	0.00	0.00
ATOM	1377	HB2	SER	X	89	49.650	62.243	32.515	0.00	0.00
ATOM	1378	HB3	SER	X	89	48.087	61.445	33.002	0.00	0.00
ATOM	1379	OG	SER	X	89	48.369	63.476	33.324	0.00	0.00
ATOM	1380	HG	SER	X	89	47.969	63.723	32.488	0.00	0.00
ATOM	1381	C	SER	X	89	48.417	61.494	35.676	0.00	0.00
ATOM	1382	O	SER	X	89	48.353	60.450	36.255	0.00	0.00
ATOM	1383	N	GLU	X	90	47.546	62.514	35.937	0.00	0.00
ATOM	1384	H	GLU	X	90	47.741	63.390	35.473	0.00	0.00
ATOM	1385	CA	GLU	X	90	46.442	62.430	36.831	0.00	0.00
ATOM	1386	HA	GLU	X	90	46.385	61.510	37.412	0.00	0.00
ATOM	1387	CB	GLU	X	90	46.330	63.691	37.726	0.00	0.00
ATOM	1388	HB2	GLU	X	90	46.340	64.539	37.040	0.00	0.00
ATOM	1389	HB3	GLU	X	90	45.395	63.657	38.285	0.00	0.00
ATOM	1390	CG	GLU	X	90	47.473	63.988	38.788	0.00	0.00
ATOM	1391	HG2	GLU	X	90	47.207	63.227	39.522	0.00	0.00
ATOM	1392	HG3	GLU	X	90	48.496	63.947	38.413	0.00	0.00
ATOM	1393	CD	GLU	X	90	47.325	65.387	39.296	0.00	0.00
ATOM	1394	OE1	GLU	X	90	46.583	65.526	40.323	0.00	0.00
ATOM	1395	OE2	GLU	X	90	47.943	66.372	38.750	0.00	0.00
ATOM	1396	C	GLU	X	90	45.109	62.368	36.107	0.00	0.00
ATOM	1397	O	GLU	X	90	44.094	62.228	36.810	0.00	0.00
ATOM	1398	N	ASP	X	91	45.074	62.379	34.752	0.00	0.00
ATOM	1399	H	ASP	X	91	45.978	62.291	34.310	0.00	0.00
ATOM	1400	CA	ASP	X	91	43.889	62.344	33.932	0.00	0.00
ATOM	1401	HA	ASP	X	91	43.167	62.991	34.430	0.00	0.00
ATOM	1402	CB	ASP	X	91	44.209	62.985	32.535	0.00	0.00
ATOM	1403	HB2	ASP	X	91	43.252	63.361	32.171	0.00	0.00
ATOM	1404	HB3	ASP	X	91	44.884	63.817	32.734	0.00	0.00
ATOM	1405	CG	ASP	X	91	44.843	61.962	31.471	0.00	0.00
ATOM	1406	OD1	ASP	X	91	45.746	61.245	31.882	0.00	0.00
ATOM	1407	OD2	ASP	X	91	44.418	61.935	30.305	0.00	0.00
ATOM	1408	C	ASP	X	91	43.195	60.939	33.851	0.00	0.00
ATOM	1409	O	ASP	X	91	42.456	60.583	32.930	0.00	0.00
ATOM	1410	N	CYX	X	92	43.597	60.057	34.778	0.00	0.00
ATOM	1411	H	CYX	X	92	43.882	60.545	35.615	0.00	0.00
ATOM	1412	CA	CYX	X	92	44.008	58.674	34.442	0.00	0.00
ATOM	1413	HA	CYX	X	92	44.318	58.784	33.403	0.00	0.00
ATOM	1414	CB	CYX	X	92	45.106	58.397	35.359	0.00	0.00
ATOM	1415	HB2	CYX	X	92	45.675	57.530	35.020	0.00	0.00
ATOM	1416	HB3	CYX	X	92	45.794	59.227	35.197	0.00	0.00
ATOM	1417	SG	CYX	X	92	44.726	58.085	37.074	0.00	0.00
ATOM	1418	C	CYX	X	92	43.025	57.510	34.473	0.00	0.00
ATOM	1419	O	CYX	X	92	43.439	56.358	34.658	0.00	0.00
ATOM	1420	N	LEU	X	93	41.703	57.813	34.578	0.00	0.00
ATOM	1421	H	LEU	X	93	41.364	58.695	34.220	0.00	0.00
ATOM	1422	CA	LEU	X	93	40.765	56.693	34.931	0.00	0.00
ATOM	1423	HA	LEU	X	93	41.380	55.879	35.316	0.00	0.00
ATOM	1424	CB	LEU	X	93	39.839	57.064	36.060	0.00	0.00
ATOM	1425	HB2	LEU	X	93	39.398	57.985	35.679	0.00	0.00
ATOM	1426	HB3	LEU	X	93	39.058	56.318	36.203	0.00	0.00
ATOM	1427	CG	LEU	X	93	40.490	57.384	37.397	0.00	0.00
ATOM	1428	HG	LEU	X	93	41.256	58.094	37.083	0.00	0.00
ATOM	1429	CD1	LEU	X	93	39.586	58.070	38.458	0.00	0.00
ATOM	1430	HD11	LEU	X	93	38.640	57.562	38.642	0.00	0.00
ATOM	1431	HD12	LEU	X	93	39.182	58.982	38.019	0.00	0.00
ATOM	1432	HD13	LEU	X	93	40.080	58.282	39.406	0.00	0.00

ATOM	1433	CD2	LEU	X	93	41.127	56.166	38.032	0.00	0.00
ATOM	1434	HD21	LEU	X	93	40.341	55.510	38.404	0.00	0.00
ATOM	1435	HD22	LEU	X	93	41.738	55.649	37.291	0.00	0.00
ATOM	1436	HD23	LEU	X	93	41.705	56.495	38.895	0.00	0.00
ATOM	1437	C	LEU	X	93	40.107	56.215	33.635	0.00	0.00
ATOM	1438	O	LEU	X	93	39.063	56.676	33.184	0.00	0.00
ATOM	1439	N	TYR	X	94	40.814	55.229	32.991	0.00	0.00
ATOM	1440	H	TYR	X	94	41.692	55.016	33.441	0.00	0.00
ATOM	1441	CA	TYR	X	94	40.542	54.521	31.751	0.00	0.00
ATOM	1442	HA	TYR	X	94	39.641	55.047	31.437	0.00	0.00
ATOM	1443	CB	TYR	X	94	41.697	54.837	30.774	0.00	0.00
ATOM	1444	HB2	TYR	X	94	42.564	54.353	31.225	0.00	0.00
ATOM	1445	HB3	TYR	X	94	41.494	54.358	29.816	0.00	0.00
ATOM	1446	CG	TYR	X	94	41.954	56.295	30.594	0.00	0.00
ATOM	1447	CD1	TYR	X	94	40.958	57.020	29.930	0.00	0.00
ATOM	1448	HD1	TYR	X	94	40.057	56.524	29.601	0.00	0.00
ATOM	1449	CE1	TYR	X	94	41.094	58.391	29.674	0.00	0.00
ATOM	1450	HE1	TYR	X	94	40.362	58.917	29.078	0.00	0.00
ATOM	1451	CZ	TYR	X	94	42.330	59.050	29.975	0.00	0.00
ATOM	1452	OH	TYR	X	94	42.386	60.349	29.582	0.00	0.00
ATOM	1453	HH	TYR	X	94	43.265	60.673	29.792	0.00	0.00
ATOM	1454	CE2	TYR	X	94	43.267	58.371	30.824	0.00	0.00
ATOM	1455	HE2	TYR	X	94	44.201	58.873	31.032	0.00	0.00
ATOM	1456	CD2	TYR	X	94	43.114	57.035	31.092	0.00	0.00
ATOM	1457	HD2	TYR	X	94	43.837	56.509	31.697	0.00	0.00
ATOM	1458	C	TYR	X	94	40.360	53.026	31.897	0.00	0.00
ATOM	1459	O	TYR	X	94	41.003	52.269	32.669	0.00	0.00
ATOM	1460	N	LEU	X	95	39.508	52.494	31.000	0.00	0.00
ATOM	1461	H	LEU	X	95	39.082	53.167	30.379	0.00	0.00
ATOM	1462	CA	LEU	X	95	38.863	51.104	31.066	0.00	0.00
ATOM	1463	HA	LEU	X	95	39.496	50.527	31.740	0.00	0.00
ATOM	1464	CB	LEU	X	95	37.422	51.107	31.585	0.00	0.00
ATOM	1465	HB2	LEU	X	95	37.443	51.677	32.514	0.00	0.00
ATOM	1466	HB3	LEU	X	95	36.828	51.693	30.884	0.00	0.00
ATOM	1467	CG	LEU	X	95	36.680	49.825	31.747	0.00	0.00
ATOM	1468	HG	LEU	X	95	37.439	49.065	31.932	0.00	0.00
ATOM	1469	CD1	LEU	X	95	35.759	49.752	32.942	0.00	0.00
ATOM	1470	HD11	LEU	X	95	35.229	48.800	32.907	0.00	0.00
ATOM	1471	HD12	LEU	X	95	35.026	50.559	32.947	0.00	0.00
ATOM	1472	HD13	LEU	X	95	36.354	49.772	33.855	0.00	0.00
ATOM	1473	CD2	LEU	X	95	35.886	49.525	30.458	0.00	0.00
ATOM	1474	HD21	LEU	X	95	36.575	49.170	29.692	0.00	0.00
ATOM	1475	HD22	LEU	X	95	35.157	48.741	30.664	0.00	0.00
ATOM	1476	HD23	LEU	X	95	35.302	50.371	30.095	0.00	0.00
ATOM	1477	C	LEU	X	95	39.108	50.520	29.725	0.00	0.00
ATOM	1478	O	LEU	X	95	39.173	51.163	28.690	0.00	0.00
ATOM	1479	N	ASN	X	96	39.248	49.211	29.670	0.00	0.00
ATOM	1480	H	ASN	X	96	39.121	48.625	30.483	0.00	0.00
ATOM	1481	CA	ASN	X	96	39.774	48.481	28.486	0.00	0.00
ATOM	1482	HA	ASN	X	96	39.742	49.134	27.614	0.00	0.00
ATOM	1483	CB	ASN	X	96	41.272	48.235	28.838	0.00	0.00
ATOM	1484	HB2	ASN	X	96	41.215	47.592	29.716	0.00	0.00
ATOM	1485	HB3	ASN	X	96	41.806	47.864	27.963	0.00	0.00
ATOM	1486	CG	ASN	X	96	42.113	49.455	29.225	0.00	0.00
ATOM	1487	OD1	ASN	X	96	42.388	50.476	28.525	0.00	0.00
ATOM	1488	ND2	ASN	X	96	42.556	49.401	30.506	0.00	0.00
ATOM	1489	HD21	ASN	X	96	43.156	50.165	30.783	0.00	0.00
ATOM	1490	HD22	ASN	X	96	42.359	48.654	31.156	0.00	0.00
ATOM	1491	C	ASN	X	96	38.937	47.117	28.463	0.00	0.00
ATOM	1492	O	ASN	X	96	38.773	46.583	29.545	0.00	0.00
ATOM	1493	N	VAL	X	97	38.456	46.678	27.332	0.00	0.00
ATOM	1494	H	VAL	X	97	38.651	47.325	26.582	0.00	0.00
ATOM	1495	CA	VAL	X	97	37.557	45.557	27.013	0.00	0.00
ATOM	1496	HA	VAL	X	97	37.535	44.976	27.935	0.00	0.00
ATOM	1497	CB	VAL	X	97	36.114	46.031	26.748	0.00	0.00
ATOM	1498	HB	VAL	X	97	36.019	46.593	25.819	0.00	0.00
ATOM	1499	CG1	VAL	X	97	35.257	44.711	26.734	0.00	0.00

ATOM	1500	HG11	VAL	X	97	35.637	43.908	26.102	0.00	0.00
ATOM	1501	HG12	VAL	X	97	35.072	44.384	27.756	0.00	0.00
ATOM	1502	HG13	VAL	X	97	34.304	45.059	26.336	0.00	0.00
ATOM	1503	CG2	VAL	X	97	35.616	46.922	27.873	0.00	0.00
ATOM	1504	HG21	VAL	X	97	36.069	46.633	28.821	0.00	0.00
ATOM	1505	HG22	VAL	X	97	34.531	46.848	27.956	0.00	0.00
ATOM	1506	HG23	VAL	X	97	35.903	47.973	27.863	0.00	0.00
ATOM	1507	C	VAL	X	97	38.140	44.775	25.860	0.00	0.00
ATOM	1508	O	VAL	X	97	38.819	45.305	24.989	0.00	0.00
ATOM	1509	N	TRP	X	98	38.038	43.449	25.951	0.00	0.00
ATOM	1510	H	TRP	X	98	37.507	42.981	26.671	0.00	0.00
ATOM	1511	CA	TRP	X	98	38.314	42.430	24.960	0.00	0.00
ATOM	1512	HA	TRP	X	98	38.504	42.923	24.007	0.00	0.00
ATOM	1513	CB	TRP	X	98	39.611	41.749	25.410	0.00	0.00
ATOM	1514	HB2	TRP	X	98	39.408	41.425	26.431	0.00	0.00
ATOM	1515	HB3	TRP	X	98	39.836	40.940	24.716	0.00	0.00
ATOM	1516	CG	TRP	X	98	40.868	42.579	25.477	0.00	0.00
ATOM	1517	CD1	TRP	X	98	41.906	42.527	24.609	0.00	0.00
ATOM	1518	HD1	TRP	X	98	41.988	42.052	23.643	0.00	0.00
ATOM	1519	NE1	TRP	X	98	42.930	43.395	25.110	0.00	0.00
ATOM	1520	HE1	TRP	X	98	43.744	43.554	24.533	0.00	0.00
ATOM	1521	CE2	TRP	X	98	42.636	43.886	26.353	0.00	0.00
ATOM	1522	CZ2	TRP	X	98	43.384	44.763	27.187	0.00	0.00
ATOM	1523	HZ2	TRP	X	98	44.308	45.159	26.792	0.00	0.00
ATOM	1524	CH2	TRP	X	98	42.894	45.149	28.427	0.00	0.00
ATOM	1525	HH2	TRP	X	98	43.392	45.953	28.948	0.00	0.00
ATOM	1526	CZ3	TRP	X	98	41.707	44.556	28.800	0.00	0.00
ATOM	1527	HZ3	TRP	X	98	41.253	44.801	29.749	0.00	0.00
ATOM	1528	CE3	TRP	X	98	40.883	43.663	27.976	0.00	0.00
ATOM	1529	HE3	TRP	X	98	39.925	43.305	28.323	0.00	0.00
ATOM	1530	CD2	TRP	X	98	41.380	43.308	26.678	0.00	0.00
ATOM	1531	C	TRP	X	98	37.107	41.476	24.755	0.00	0.00
ATOM	1532	O	TRP	X	98	36.565	40.840	25.714	0.00	0.00
ATOM	1533	N	THR	X	99	36.625	41.519	23.513	0.00	0.00
ATOM	1534	H	THR	X	99	37.181	41.989	22.813	0.00	0.00
ATOM	1535	CA	THR	X	99	35.387	40.915	23.064	0.00	0.00
ATOM	1536	HA	THR	X	99	34.975	40.254	23.827	0.00	0.00
ATOM	1537	CB	THR	X	99	34.295	41.929	23.094	0.00	0.00
ATOM	1538	HB	THR	X	99	34.241	42.297	24.119	0.00	0.00
ATOM	1539	CG2	THR	X	99	34.514	43.112	22.106	0.00	0.00
ATOM	1540	HG21	THR	X	99	35.541	43.465	22.198	0.00	0.00
ATOM	1541	HG22	THR	X	99	33.931	43.967	22.447	0.00	0.00
ATOM	1542	HG23	THR	X	99	34.292	42.703	21.121	0.00	0.00
ATOM	1543	OG1	THR	X	99	33.040	41.294	22.818	0.00	0.00
ATOM	1544	HG1	THR	X	99	32.364	41.897	23.137	0.00	0.00
ATOM	1545	C	THR	X	99	35.539	40.171	21.719	0.00	0.00
ATOM	1546	O	THR	X	99	36.183	40.712	20.866	0.00	0.00
ATOM	1547	N	PRO	X	100	35.019	38.979	21.497	0.00	0.00
ATOM	1548	CD	PRO	X	100	34.364	38.133	22.447	0.00	0.00
ATOM	1549	HD2	PRO	X	100	33.291	38.326	22.464	0.00	0.00
ATOM	1550	HD3	PRO	X	100	34.889	38.215	23.399	0.00	0.00
ATOM	1551	CG	PRO	X	100	34.510	36.665	21.917	0.00	0.00
ATOM	1552	HG2	PRO	X	100	33.647	36.084	22.243	0.00	0.00
ATOM	1553	HG3	PRO	X	100	35.444	36.155	22.151	0.00	0.00
ATOM	1554	CB	PRO	X	100	34.511	36.858	20.394	0.00	0.00
ATOM	1555	HB2	PRO	X	100	33.512	36.992	19.980	0.00	0.00
ATOM	1556	HB3	PRO	X	100	35.100	36.091	19.891	0.00	0.00
ATOM	1557	CA	PRO	X	100	35.311	38.225	20.247	0.00	0.00
ATOM	1558	HA	PRO	X	100	36.392	38.084	20.239	0.00	0.00
ATOM	1559	C	PRO	X	100	34.698	38.899	19.002	0.00	0.00
ATOM	1560	O	PRO	X	100	33.937	39.889	19.075	0.00	0.00
ATOM	1561	N	TYR	X	101	35.141	38.471	17.812	0.00	0.00
ATOM	1562	H	TYR	X	101	35.801	37.707	17.817	0.00	0.00
ATOM	1563	CA	TYR	X	101	34.779	39.062	16.518	0.00	0.00
ATOM	1564	HA	TYR	X	101	34.113	39.911	16.675	0.00	0.00
ATOM	1565	CB	TYR	X	101	36.068	39.521	15.765	0.00	0.00
ATOM	1566	HB2	TYR	X	101	36.515	40.132	16.549	0.00	0.00

ATOM	1567	HB3	TYR	X	101	36.794	38.724	15.600	0.00	0.00
ATOM	1568	CG	TYR	X	101	35.830	40.306	14.505	0.00	0.00
ATOM	1569	CD1	TYR	X	101	35.911	39.603	13.263	0.00	0.00
ATOM	1570	HD1	TYR	X	101	36.322	38.624	13.065	0.00	0.00
ATOM	1571	CE1	TYR	X	101	35.582	40.312	12.077	0.00	0.00
ATOM	1572	HE1	TYR	X	101	35.721	39.808	11.132	0.00	0.00
ATOM	1573	CZ	TYR	X	101	35.343	41.664	12.111	0.00	0.00
ATOM	1574	OH	TYR	X	101	35.069	42.412	11.020	0.00	0.00
ATOM	1575	HH	TYR	X	101	34.933	41.939	10.196	0.00	0.00
ATOM	1576	CE2	TYR	X	101	35.288	42.313	13.385	0.00	0.00
ATOM	1577	HE2	TYR	X	101	35.000	43.353	13.407	0.00	0.00
ATOM	1578	CD2	TYR	X	101	35.574	41.695	14.555	0.00	0.00
ATOM	1579	HD2	TYR	X	101	35.500	42.216	15.498	0.00	0.00
ATOM	1580	C	TYR	X	101	33.991	38.103	15.576	0.00	0.00
ATOM	1581	O	TYR	X	101	34.447	36.978	15.485	0.00	0.00
ATOM	1582	N	PRO	X	102	32.866	38.568	14.969	0.00	0.00
ATOM	1583	CD	PRO	X	102	32.126	37.639	14.050	0.00	0.00
ATOM	1584	HD2	PRO	X	102	31.873	36.675	14.491	0.00	0.00
ATOM	1585	HD3	PRO	X	102	32.670	37.448	13.125	0.00	0.00
ATOM	1586	CG	PRO	X	102	30.867	38.373	13.655	0.00	0.00
ATOM	1587	HG2	PRO	X	102	29.984	38.103	14.234	0.00	0.00
ATOM	1588	HG3	PRO	X	102	30.668	38.064	12.628	0.00	0.00
ATOM	1589	CB	PRO	X	102	31.147	39.835	13.980	0.00	0.00
ATOM	1590	HB2	PRO	X	102	30.284	40.471	14.178	0.00	0.00
ATOM	1591	HB3	PRO	X	102	31.772	40.243	13.186	0.00	0.00
ATOM	1592	CA	PRO	X	102	32.125	39.694	15.182	0.00	0.00
ATOM	1593	HA	PRO	X	102	32.794	40.551	15.110	0.00	0.00
ATOM	1594	C	PRO	X	102	31.434	39.624	16.553	0.00	0.00
ATOM	1595	O	PRO	X	102	31.296	38.562	17.232	0.00	0.00
ATOM	1596	N	ARG	X	103	31.010	40.738	17.083	0.00	0.00
ATOM	1597	H	ARG	X	103	31.095	41.599	16.561	0.00	0.00
ATOM	1598	CA	ARG	X	103	30.746	40.874	18.560	0.00	0.00
ATOM	1599	HA	ARG	X	103	31.641	40.561	19.098	0.00	0.00
ATOM	1600	CB	ARG	X	103	30.488	42.384	18.891	0.00	0.00
ATOM	1601	HB2	ARG	X	103	31.131	42.999	18.261	0.00	0.00
ATOM	1602	HB3	ARG	X	103	29.436	42.606	18.712	0.00	0.00
ATOM	1603	CG	ARG	X	103	30.892	42.712	20.352	0.00	0.00
ATOM	1604	HG2	ARG	X	103	30.150	42.339	21.059	0.00	0.00
ATOM	1605	HG3	ARG	X	103	31.807	42.126	20.438	0.00	0.00
ATOM	1606	CD	ARG	X	103	31.192	44.224	20.572	0.00	0.00
ATOM	1607	HD2	ARG	X	103	31.536	44.226	21.606	0.00	0.00
ATOM	1608	HD3	ARG	X	103	32.002	44.622	19.960	0.00	0.00
ATOM	1609	NE	ARG	X	103	29.941	44.996	20.368	0.00	0.00
ATOM	1610	HE	ARG	X	103	29.161	44.824	20.987	0.00	0.00
ATOM	1611	CZ	ARG	X	103	29.735	45.833	19.374	0.00	0.00
ATOM	1612	NH1	ARG	X	103	30.677	46.226	18.523	0.00	0.00
ATOM	1613	HH11	ARG	X	103	31.531	45.710	18.364	0.00	0.00
ATOM	1614	HH12	ARG	X	103	30.397	47.000	17.936	0.00	0.00
ATOM	1615	NH2	ARG	X	103	28.516	46.385	19.296	0.00	0.00
ATOM	1616	HH21	ARG	X	103	27.744	46.186	19.917	0.00	0.00
ATOM	1617	HH22	ARG	X	103	28.182	46.982	18.553	0.00	0.00
ATOM	1618	C	ARG	X	103	29.504	39.986	18.985	0.00	0.00
ATOM	1619	O	ARG	X	103	28.431	40.085	18.355	0.00	0.00
ATOM	1620	N	PRO	X	104	29.515	39.393	20.209	0.00	0.00
ATOM	1621	CD	PRO	X	104	30.742	39.074	20.951	0.00	0.00
ATOM	1622	HD2	PRO	X	104	31.226	39.942	21.399	0.00	0.00
ATOM	1623	HD3	PRO	X	104	31.508	38.666	20.293	0.00	0.00
ATOM	1624	CG	PRO	X	104	30.397	38.096	22.043	0.00	0.00
ATOM	1625	HG2	PRO	X	104	30.889	38.362	22.979	0.00	0.00
ATOM	1626	HG3	PRO	X	104	30.684	37.075	21.794	0.00	0.00
ATOM	1627	CB	PRO	X	104	28.851	38.095	22.125	0.00	0.00
ATOM	1628	HB2	PRO	X	104	28.562	38.847	22.859	0.00	0.00
ATOM	1629	HB3	PRO	X	104	28.422	37.119	22.353	0.00	0.00
ATOM	1630	CA	PRO	X	104	28.365	38.723	20.823	0.00	0.00
ATOM	1631	HA	PRO	X	104	28.112	37.866	20.198	0.00	0.00
ATOM	1632	C	PRO	X	104	27.183	39.606	20.971	0.00	0.00
ATOM	1633	O	PRO	X	104	27.339	40.771	21.302	0.00	0.00

ATOM	1634	N	THR	X	105	26.029	39.043	20.759	0.00	0.00
ATOM	1635	H	THR	X	105	26.027	38.058	20.537	0.00	0.00
ATOM	1636	CA	THR	X	105	24.753	39.602	20.811	0.00	0.00
ATOM	1637	HA	THR	X	105	24.815	40.687	20.900	0.00	0.00
ATOM	1638	CB	THR	X	105	24.085	39.436	19.484	0.00	0.00
ATOM	1639	HB	THR	X	105	23.669	38.432	19.397	0.00	0.00
ATOM	1640	CG2	THR	X	105	22.944	40.574	19.322	0.00	0.00
ATOM	1641	HG21	THR	X	105	23.404	41.562	19.356	0.00	0.00
ATOM	1642	HG22	THR	X	105	22.080	40.505	19.983	0.00	0.00
ATOM	1643	HG23	THR	X	105	22.515	40.583	18.319	0.00	0.00
ATOM	1644	OG1	THR	X	105	24.925	39.589	18.322	0.00	0.00
ATOM	1645	HG1	THR	X	105	25.650	38.965	18.392	0.00	0.00
ATOM	1646	C	THR	X	105	23.912	39.116	21.988	0.00	0.00
ATOM	1647	O	THR	X	105	23.276	39.898	22.679	0.00	0.00
ATOM	1648	N	SER	X	106	24.118	37.854	22.410	0.00	0.00
ATOM	1649	H	SER	X	106	24.810	37.274	21.957	0.00	0.00
ATOM	1650	CA	SER	X	106	23.409	37.398	23.556	0.00	0.00
ATOM	1651	HA	SER	X	106	22.503	37.974	23.742	0.00	0.00
ATOM	1652	CB	SER	X	106	22.989	35.921	23.263	0.00	0.00
ATOM	1653	HB2	SER	X	106	22.295	35.528	24.007	0.00	0.00
ATOM	1654	HB3	SER	X	106	22.452	35.825	22.319	0.00	0.00
ATOM	1655	OG	SER	X	106	24.099	35.038	23.263	0.00	0.00
ATOM	1656	HG	SER	X	106	24.646	35.083	22.476	0.00	0.00
ATOM	1657	C	SER	X	106	24.359	37.429	24.757	0.00	0.00
ATOM	1658	O	SER	X	106	25.573	37.452	24.574	0.00	0.00
ATOM	1659	N	PRO	X	107	23.797	37.526	26.052	0.00	0.00
ATOM	1660	CD	PRO	X	107	22.396	37.349	26.328	0.00	0.00
ATOM	1661	HD2	PRO	X	107	22.180	36.292	26.174	0.00	0.00
ATOM	1662	HD3	PRO	X	107	21.668	37.934	25.766	0.00	0.00
ATOM	1663	CG	PRO	X	107	22.148	37.682	27.854	0.00	0.00
ATOM	1664	HG2	PRO	X	107	21.346	37.099	28.306	0.00	0.00
ATOM	1665	HG3	PRO	X	107	21.956	38.747	27.982	0.00	0.00
ATOM	1666	CB	PRO	X	107	23.497	37.401	28.406	0.00	0.00
ATOM	1667	HB2	PRO	X	107	23.496	36.369	28.757	0.00	0.00
ATOM	1668	HB3	PRO	X	107	23.654	38.078	29.246	0.00	0.00
ATOM	1669	CA	PRO	X	107	24.521	37.721	27.285	0.00	0.00
ATOM	1670	HA	PRO	X	107	24.918	38.736	27.292	0.00	0.00
ATOM	1671	C	PRO	X	107	25.750	36.725	27.414	0.00	0.00
ATOM	1672	O	PRO	X	107	25.597	35.493	27.342	0.00	0.00
ATOM	1673	N	THR	X	108	26.961	37.312	27.499	0.00	0.00
ATOM	1674	H	THR	X	108	27.033	38.305	27.668	0.00	0.00
ATOM	1675	CA	THR	X	108	28.195	36.614	27.530	0.00	0.00
ATOM	1676	HA	THR	X	108	27.942	35.554	27.563	0.00	0.00
ATOM	1677	CB	THR	X	108	29.078	36.968	26.361	0.00	0.00
ATOM	1678	HB	THR	X	108	29.365	38.014	26.466	0.00	0.00
ATOM	1679	CG2	THR	X	108	30.356	36.155	26.260	0.00	0.00
ATOM	1680	HG21	THR	X	108	30.206	35.084	26.389	0.00	0.00
ATOM	1681	HG22	THR	X	108	31.079	36.449	27.021	0.00	0.00
ATOM	1682	HG23	THR	X	108	30.837	36.333	25.298	0.00	0.00
ATOM	1683	OG1	THR	X	108	28.351	36.841	25.192	0.00	0.00
ATOM	1684	HG1	THR	X	108	27.636	37.481	25.218	0.00	0.00
ATOM	1685	C	THR	X	108	28.864	36.862	28.844	0.00	0.00
ATOM	1686	O	THR	X	108	29.355	37.970	28.958	0.00	0.00
ATOM	1687	N	PRO	X	109	29.042	35.838	29.765	0.00	0.00
ATOM	1688	CD	PRO	X	109	28.719	34.447	29.648	0.00	0.00
ATOM	1689	HD2	PRO	X	109	28.924	33.983	28.683	0.00	0.00
ATOM	1690	HD3	PRO	X	109	27.659	34.283	29.845	0.00	0.00
ATOM	1691	CG	PRO	X	109	29.723	33.797	30.583	0.00	0.00
ATOM	1692	HG2	PRO	X	109	30.719	33.837	30.141	0.00	0.00
ATOM	1693	HG3	PRO	X	109	29.454	32.773	30.844	0.00	0.00
ATOM	1694	CB	PRO	X	109	29.877	34.699	31.849	0.00	0.00
ATOM	1695	HB2	PRO	X	109	30.867	34.611	32.297	0.00	0.00
ATOM	1696	HB3	PRO	X	109	29.033	34.496	32.507	0.00	0.00
ATOM	1697	CA	PRO	X	109	29.710	36.056	31.090	0.00	0.00
ATOM	1698	HA	PRO	X	109	29.124	36.761	31.681	0.00	0.00
ATOM	1699	C	PRO	X	109	31.049	36.757	31.024	0.00	0.00
ATOM	1700	O	PRO	X	109	31.812	36.612	30.021	0.00	0.00

ATOM	1701	N	VAL	X	110	31.340	37.496	32.137	0.00	0.00
ATOM	1702	H	VAL	X	110	30.734	37.565	32.942	0.00	0.00
ATOM	1703	CA	VAL	X	110	32.326	38.563	32.001	0.00	0.00
ATOM	1704	HA	VAL	X	110	32.810	38.486	31.028	0.00	0.00
ATOM	1705	CB	VAL	X	110	31.655	39.940	32.269	0.00	0.00
ATOM	1706	HB	VAL	X	110	31.389	39.959	33.326	0.00	0.00
ATOM	1707	CG1	VAL	X	110	32.688	41.085	31.988	0.00	0.00
ATOM	1708	HG11	VAL	X	110	32.867	41.239	30.924	0.00	0.00
ATOM	1709	HG12	VAL	X	110	32.315	42.044	32.349	0.00	0.00
ATOM	1710	HG13	VAL	X	110	33.665	41.012	32.466	0.00	0.00
ATOM	1711	CG2	VAL	X	110	30.335	40.233	31.516	0.00	0.00
ATOM	1712	HG21	VAL	X	110	30.710	40.269	30.493	0.00	0.00
ATOM	1713	HG22	VAL	X	110	29.887	41.163	31.867	0.00	0.00
ATOM	1714	HG23	VAL	X	110	29.683	39.411	31.811	0.00	0.00
ATOM	1715	C	VAL	X	110	33.316	38.370	33.064	0.00	0.00
ATOM	1716	O	VAL	X	110	32.947	38.135	34.228	0.00	0.00
ATOM	1717	N	LEU	X	111	34.581	38.673	32.753	0.00	0.00
ATOM	1718	H	LEU	X	111	34.755	38.809	31.768	0.00	0.00
ATOM	1719	CA	LEU	X	111	35.723	38.678	33.707	0.00	0.00
ATOM	1720	HA	LEU	X	111	35.454	38.278	34.685	0.00	0.00
ATOM	1721	CB	LEU	X	111	36.880	37.863	33.123	0.00	0.00
ATOM	1722	HB2	LEU	X	111	37.051	38.220	32.107	0.00	0.00
ATOM	1723	HB3	LEU	X	111	37.724	38.158	33.746	0.00	0.00
ATOM	1724	CG	LEU	X	111	36.715	36.314	33.036	0.00	0.00
ATOM	1725	HG	LEU	X	111	35.715	36.096	32.661	0.00	0.00
ATOM	1726	CD1	LEU	X	111	37.611	35.679	31.969	0.00	0.00
ATOM	1727	HD11	LEU	X	111	37.342	34.625	31.888	0.00	0.00
ATOM	1728	HD12	LEU	X	111	38.654	35.966	32.099	0.00	0.00
ATOM	1729	HD13	LEU	X	111	37.179	36.165	31.095	0.00	0.00
ATOM	1730	CD2	LEU	X	111	36.838	35.765	34.460	0.00	0.00
ATOM	1731	HD21	LEU	X	111	35.840	35.883	34.881	0.00	0.00
ATOM	1732	HD22	LEU	X	111	37.113	34.710	34.494	0.00	0.00
ATOM	1733	HD23	LEU	X	111	37.488	36.402	35.059	0.00	0.00
ATOM	1734	C	LEU	X	111	36.246	40.172	33.795	0.00	0.00
ATOM	1735	O	LEU	X	111	36.472	40.700	32.765	0.00	0.00
ATOM	1736	N	VAL	X	112	36.590	40.636	35.014	0.00	0.00
ATOM	1737	H	VAL	X	112	36.457	40.044	35.822	0.00	0.00
ATOM	1738	CA	VAL	X	112	37.226	41.955	35.181	0.00	0.00
ATOM	1739	HA	VAL	X	112	37.342	42.483	34.235	0.00	0.00
ATOM	1740	CB	VAL	X	112	36.307	42.931	35.890	0.00	0.00
ATOM	1741	HB	VAL	X	112	36.212	42.560	36.911	0.00	0.00
ATOM	1742	CG1	VAL	X	112	36.864	44.385	35.734	0.00	0.00
ATOM	1743	HG11	VAL	X	112	37.924	44.344	35.982	0.00	0.00
ATOM	1744	HG12	VAL	X	112	36.740	44.631	34.679	0.00	0.00
ATOM	1745	HG13	VAL	X	112	36.263	45.078	36.323	0.00	0.00
ATOM	1746	CG2	VAL	X	112	34.894	43.036	35.327	0.00	0.00
ATOM	1747	HG21	VAL	X	112	34.285	42.132	35.300	0.00	0.00
ATOM	1748	HG22	VAL	X	112	34.892	43.457	34.322	0.00	0.00
ATOM	1749	HG23	VAL	X	112	34.377	43.655	36.060	0.00	0.00
ATOM	1750	C	VAL	X	112	38.546	41.903	35.990	0.00	0.00
ATOM	1751	O	VAL	X	112	38.544	41.429	37.101	0.00	0.00
ATOM	1752	N	TRP	X	113	39.609	42.469	35.384	0.00	0.00
ATOM	1753	H	TRP	X	113	39.354	42.879	34.497	0.00	0.00
ATOM	1754	CA	TRP	X	113	40.945	42.461	35.903	0.00	0.00
ATOM	1755	HA	TRP	X	113	41.034	41.547	36.491	0.00	0.00
ATOM	1756	CB	TRP	X	113	41.944	42.529	34.701	0.00	0.00
ATOM	1757	HB2	TRP	X	113	41.691	41.622	34.152	0.00	0.00
ATOM	1758	HB3	TRP	X	113	41.808	43.389	34.044	0.00	0.00
ATOM	1759	CG	TRP	X	113	43.360	42.396	35.233	0.00	0.00
ATOM	1760	CD1	TRP	X	113	44.273	43.432	35.322	0.00	0.00
ATOM	1761	HD1	TRP	X	113	44.072	44.450	35.022	0.00	0.00
ATOM	1762	NE1	TRP	X	113	45.417	42.953	35.895	0.00	0.00
ATOM	1763	HE1	TRP	X	113	46.302	43.414	36.051	0.00	0.00
ATOM	1764	CE2	TRP	X	113	45.257	41.649	36.304	0.00	0.00
ATOM	1765	CZ2	TRP	X	113	46.133	40.846	37.065	0.00	0.00
ATOM	1766	HZ2	TRP	X	113	47.092	41.154	37.455	0.00	0.00
ATOM	1767	CH2	TRP	X	113	45.780	39.453	37.148	0.00	0.00

ATOM	1768	HH2	TRP	X	113	46.481	38.813	37.665	0.00	0.00
ATOM	1769	CZ3	TRP	X	113	44.525	38.968	36.613	0.00	0.00
ATOM	1770	HZ3	TRP	X	113	44.225	37.937	36.728	0.00	0.00
ATOM	1771	CE3	TRP	X	113	43.606	39.834	36.038	0.00	0.00
ATOM	1772	HE3	TRP	X	113	42.641	39.494	35.693	0.00	0.00
ATOM	1773	CD2	TRP	X	113	43.969	41.230	35.836	0.00	0.00
ATOM	1774	C	TRP	X	113	41.247	43.643	36.857	0.00	0.00
ATOM	1775	O	TRP	X	113	41.046	44.810	36.552	0.00	0.00
ATOM	1776	N	ILE	X	114	41.867	43.302	37.971	0.00	0.00
ATOM	1777	H	ILE	X	114	42.105	42.321	37.988	0.00	0.00
ATOM	1778	CA	ILE	X	114	42.498	44.217	38.918	0.00	0.00
ATOM	1779	HA	ILE	X	114	42.427	45.236	38.537	0.00	0.00
ATOM	1780	CB	ILE	X	114	41.720	44.238	40.235	0.00	0.00
ATOM	1781	HB	ILE	X	114	41.927	43.317	40.780	0.00	0.00
ATOM	1782	CG2	ILE	X	114	42.196	45.423	41.110	0.00	0.00
ATOM	1783	HG21	ILE	X	114	41.626	45.308	42.032	0.00	0.00
ATOM	1784	HG22	ILE	X	114	42.019	46.395	40.649	0.00	0.00
ATOM	1785	HG23	ILE	X	114	43.246	45.378	41.401	0.00	0.00
ATOM	1786	CG1	ILE	X	114	40.172	44.148	40.039	0.00	0.00
ATOM	1787	HG12	ILE	X	114	39.955	45.110	39.574	0.00	0.00
ATOM	1788	HG13	ILE	X	114	39.895	43.303	39.409	0.00	0.00
ATOM	1789	CD1	ILE	X	114	39.372	44.122	41.316	0.00	0.00
ATOM	1790	HD11	ILE	X	114	39.160	45.141	41.639	0.00	0.00
ATOM	1791	HD12	ILE	X	114	39.895	43.519	42.059	0.00	0.00
ATOM	1792	HD13	ILE	X	114	38.519	43.477	41.107	0.00	0.00
ATOM	1793	C	ILE	X	114	43.992	43.856	39.160	0.00	0.00
ATOM	1794	O	ILE	X	114	44.321	42.711	39.299	0.00	0.00
ATOM	1795	N	TYR	X	115	44.866	44.820	38.980	0.00	0.00
ATOM	1796	H	TYR	X	115	44.519	45.754	38.813	0.00	0.00
ATOM	1797	CA	TYR	X	115	46.353	44.605	39.000	0.00	0.00
ATOM	1798	HA	TYR	X	115	46.553	43.557	38.777	0.00	0.00
ATOM	1799	CB	TYR	X	115	46.985	45.493	37.942	0.00	0.00
ATOM	1800	HB2	TYR	X	115	48.060	45.317	37.886	0.00	0.00
ATOM	1801	HB3	TYR	X	115	46.645	45.102	36.983	0.00	0.00
ATOM	1802	CG	TYR	X	115	46.618	47.016	37.837	0.00	0.00
ATOM	1803	CD1	TYR	X	115	47.108	47.896	38.784	0.00	0.00
ATOM	1804	HD1	TYR	X	115	47.715	47.546	39.606	0.00	0.00
ATOM	1805	CE1	TYR	X	115	46.884	49.246	38.649	0.00	0.00
ATOM	1806	HE1	TYR	X	115	47.317	49.900	39.391	0.00	0.00
ATOM	1807	CZ	TYR	X	115	46.137	49.834	37.627	0.00	0.00
ATOM	1808	OH	TYR	X	115	45.889	51.170	37.539	0.00	0.00
ATOM	1809	HH	TYR	X	115	46.072	51.676	38.335	0.00	0.00
ATOM	1810	CE2	TYR	X	115	45.589	48.916	36.669	0.00	0.00
ATOM	1811	HE2	TYR	X	115	45.005	49.324	35.857	0.00	0.00
ATOM	1812	CD2	TYR	X	115	45.842	47.522	36.772	0.00	0.00
ATOM	1813	HD2	TYR	X	115	45.453	46.824	36.046	0.00	0.00
ATOM	1814	C	TYR	X	115	47.009	44.696	40.407	0.00	0.00
ATOM	1815	O	TYR	X	115	46.606	45.529	41.219	0.00	0.00
ATOM	1816	N	GLY	X	116	48.134	43.976	40.605	0.00	0.00
ATOM	1817	H	GLY	X	116	48.374	43.319	39.877	0.00	0.00
ATOM	1818	CA	GLY	X	116	49.107	44.072	41.728	0.00	0.00
ATOM	1819	HA2	GLY	X	116	48.691	44.398	42.681	0.00	0.00
ATOM	1820	HA3	GLY	X	116	49.527	43.089	41.939	0.00	0.00
ATOM	1821	C	GLY	X	116	50.247	45.089	41.424	0.00	0.00
ATOM	1822	O	GLY	X	116	50.172	45.834	40.393	0.00	0.00
ATOM	1823	N	GLY	X	117	51.268	45.192	42.306	0.00	0.00
ATOM	1824	H	GLY	X	117	51.400	44.462	42.990	0.00	0.00
ATOM	1825	CA	GLY	X	117	52.341	46.206	42.364	0.00	0.00
ATOM	1826	HA2	GLY	X	117	53.279	45.654	42.311	0.00	0.00
ATOM	1827	HA3	GLY	X	117	52.197	46.879	41.519	0.00	0.00
ATOM	1828	C	GLY	X	117	52.524	46.922	43.673	0.00	0.00
ATOM	1829	O	GLY	X	117	53.070	48.008	43.718	0.00	0.00
ATOM	1830	N	GLY	X	118	52.156	46.217	44.776	0.00	0.00
ATOM	1831	H	GLY	X	118	52.033	45.221	44.664	0.00	0.00
ATOM	1832	CA	GLY	X	118	52.354	46.673	46.175	0.00	0.00
ATOM	1833	HA2	GLY	X	118	52.489	45.840	46.866	0.00	0.00
ATOM	1834	HA3	GLY	X	118	53.379	47.030	46.268	0.00	0.00

ATOM	1835	C	GLY	X	118	51.465	47.803	46.831	0.00	0.00
ATOM	1836	O	GLY	X	118	51.776	48.275	47.895	0.00	0.00
ATOM	1837	N	PHE	X	119	50.394	48.113	46.109	0.00	0.00
ATOM	1838	H	PHE	X	119	50.167	47.490	45.348	0.00	0.00
ATOM	1839	CA	PHE	X	119	49.535	49.293	46.220	0.00	0.00
ATOM	1840	HA	PHE	X	119	48.789	49.109	45.447	0.00	0.00
ATOM	1841	CB	PHE	X	119	48.937	49.464	47.625	0.00	0.00
ATOM	1842	HB2	PHE	X	119	49.742	49.504	48.359	0.00	0.00
ATOM	1843	HB3	PHE	X	119	48.493	50.448	47.775	0.00	0.00
ATOM	1844	CG	PHE	X	119	47.965	48.349	47.968	0.00	0.00
ATOM	1845	CD1	PHE	X	119	46.718	48.347	47.306	0.00	0.00
ATOM	1846	HD1	PHE	X	119	46.535	49.194	46.661	0.00	0.00
ATOM	1847	CE1	PHE	X	119	45.678	47.400	47.604	0.00	0.00
ATOM	1848	HE1	PHE	X	119	44.712	47.514	47.135	0.00	0.00
ATOM	1849	CZ	PHE	X	119	46.023	46.366	48.477	0.00	0.00
ATOM	1850	HZ	PHE	X	119	45.293	45.682	48.884	0.00	0.00
ATOM	1851	CE2	PHE	X	119	47.242	46.298	49.072	0.00	0.00
ATOM	1852	HE2	PHE	X	119	47.500	45.480	49.727	0.00	0.00
ATOM	1853	CD2	PHE	X	119	48.219	47.255	48.789	0.00	0.00
ATOM	1854	HD2	PHE	X	119	49.241	47.217	49.135	0.00	0.00
ATOM	1855	C	PHE	X	119	50.287	50.589	45.790	0.00	0.00
ATOM	1856	O	PHE	X	119	49.740	51.607	45.621	0.00	0.00
ATOM	1857	N	TYR	X	120	51.600	50.632	45.741	0.00	0.00
ATOM	1858	H	TYR	X	120	52.101	49.828	46.092	0.00	0.00
ATOM	1859	CA	TYR	X	120	52.354	51.844	45.447	0.00	0.00
ATOM	1860	HA	TYR	X	120	51.834	52.722	45.829	0.00	0.00
ATOM	1861	CB	TYR	X	120	53.709	51.855	46.128	0.00	0.00
ATOM	1862	HB2	TYR	X	120	54.202	52.806	45.931	0.00	0.00
ATOM	1863	HB3	TYR	X	120	53.451	51.641	47.165	0.00	0.00
ATOM	1864	CG	TYR	X	120	54.811	50.886	45.601	0.00	0.00
ATOM	1865	CD1	TYR	X	120	55.928	51.359	44.777	0.00	0.00
ATOM	1866	HD1	TYR	X	120	55.777	52.316	44.300	0.00	0.00
ATOM	1867	CE1	TYR	X	120	57.058	50.565	44.537	0.00	0.00
ATOM	1868	HE1	TYR	X	120	57.861	50.815	43.860	0.00	0.00
ATOM	1869	CZ	TYR	X	120	57.146	49.284	45.126	0.00	0.00
ATOM	1870	OH	TYR	X	120	58.229	48.456	44.799	0.00	0.00
ATOM	1871	HH	TYR	X	120	58.106	47.597	45.210	0.00	0.00
ATOM	1872	CE2	TYR	X	120	56.040	48.760	45.899	0.00	0.00
ATOM	1873	HE2	TYR	X	120	56.120	47.783	46.353	0.00	0.00
ATOM	1874	CD2	TYR	X	120	54.932	49.581	46.198	0.00	0.00
ATOM	1875	HD2	TYR	X	120	54.024	49.215	46.654	0.00	0.00
ATOM	1876	C	TYR	X	120	52.675	51.997	43.995	0.00	0.00
ATOM	1877	O	TYR	X	120	53.053	53.080	43.568	0.00	0.00
ATOM	1878	N	SER	X	121	52.592	50.887	43.235	0.00	0.00
ATOM	1879	H	SER	X	121	51.973	50.211	43.660	0.00	0.00
ATOM	1880	CA	SER	X	121	52.775	50.866	41.740	0.00	0.00
ATOM	1881	HA	SER	X	121	52.593	51.845	41.296	0.00	0.00
ATOM	1882	CB	SER	X	121	54.196	50.283	41.407	0.00	0.00
ATOM	1883	HB2	SER	X	121	54.415	50.656	40.407	0.00	0.00
ATOM	1884	HB3	SER	X	121	54.929	50.724	42.083	0.00	0.00
ATOM	1885	OG	SER	X	121	54.211	48.894	41.530	0.00	0.00
ATOM	1886	HG	SER	X	121	53.620	48.563	42.210	0.00	0.00
ATOM	1887	C	SER	X	121	51.722	49.944	41.103	0.00	0.00
ATOM	1888	O	SER	X	121	51.014	49.218	41.814	0.00	0.00
ATOM	1889	N	GLY	X	122	51.718	49.912	39.766	0.00	0.00
ATOM	1890	H	GLY	X	122	52.258	50.572	39.225	0.00	0.00
ATOM	1891	CA	GLY	X	122	50.880	49.031	38.960	0.00	0.00
ATOM	1892	HA2	GLY	X	122	51.532	48.401	38.356	0.00	0.00
ATOM	1893	HA3	GLY	X	122	50.146	48.471	39.540	0.00	0.00
ATOM	1894	C	GLY	X	122	50.043	49.817	38.006	0.00	0.00
ATOM	1895	O	GLY	X	122	49.608	50.924	38.357	0.00	0.00
ATOM	1896	N	ALA	X	123	49.656	49.106	36.896	0.00	0.00
ATOM	1897	H	ALA	X	123	49.751	48.102	36.844	0.00	0.00
ATOM	1898	CA	ALA	X	123	49.095	49.824	35.818	0.00	0.00
ATOM	1899	HA	ALA	X	123	48.293	50.503	36.107	0.00	0.00
ATOM	1900	CB	ALA	X	123	50.132	50.738	35.144	0.00	0.00
ATOM	1901	HB1	ALA	X	123	50.454	51.526	35.825	0.00	0.00

ATOM	1902	HB2	ALA	X	123	49.773	51.088	34.176	0.00	0.00
ATOM	1903	HB3	ALA	X	123	50.954	50.038	34.993	0.00	0.00
ATOM	1904	C	ALA	X	123	48.339	48.865	34.778	0.00	0.00
ATOM	1905	O	ALA	X	123	48.709	47.686	34.682	0.00	0.00
ATOM	1906	N	SER	X	124	47.356	49.338	34.009	0.00	0.00
ATOM	1907	H	SER	X	124	47.038	50.293	34.092	0.00	0.00
ATOM	1908	CA	SER	X	124	46.620	48.449	33.047	0.00	0.00
ATOM	1909	HA	SER	X	124	46.267	47.569	33.585	0.00	0.00
ATOM	1910	CB	SER	X	124	45.366	49.185	32.516	0.00	0.00
ATOM	1911	HB2	SER	X	124	45.134	48.626	31.609	0.00	0.00
ATOM	1912	HB3	SER	X	124	44.612	49.013	33.283	0.00	0.00
ATOM	1913	OG	SER	X	124	45.616	50.559	32.165	0.00	0.00
ATOM	1914	HG	SER	X	124	45.462	51.022	32.992	0.00	0.00
ATOM	1915	C	SER	X	124	47.452	47.994	31.788	0.00	0.00
ATOM	1916	O	SER	X	124	47.235	46.869	31.303	0.00	0.00
ATOM	1917	N	SER	X	125	48.317	48.809	31.211	0.00	0.00
ATOM	1918	H	SER	X	125	48.566	49.656	31.701	0.00	0.00
ATOM	1919	CA	SER	X	125	48.937	48.765	29.893	0.00	0.00
ATOM	1920	HA	SER	X	125	48.237	48.373	29.155	0.00	0.00
ATOM	1921	CB	SER	X	125	49.353	50.160	29.312	0.00	0.00
ATOM	1922	HB2	SER	X	125	49.712	50.068	28.287	0.00	0.00
ATOM	1923	HB3	SER	X	125	48.493	50.827	29.366	0.00	0.00
ATOM	1924	OG	SER	X	125	50.356	50.834	30.157	0.00	0.00
ATOM	1925	HG	SER	X	125	51.241	50.520	29.959	0.00	0.00
ATOM	1926	C	SER	X	125	50.084	47.745	29.931	0.00	0.00
ATOM	1927	O	SER	X	125	50.624	47.543	28.931	0.00	0.00
ATOM	1928	N	LEU	X	126	50.388	47.225	31.099	0.00	0.00
ATOM	1929	H	LEU	X	126	49.734	47.407	31.847	0.00	0.00
ATOM	1930	CA	LEU	X	126	51.556	46.376	31.328	0.00	0.00
ATOM	1931	HA	LEU	X	126	52.381	46.983	30.955	0.00	0.00
ATOM	1932	CB	LEU	X	126	51.824	46.084	32.826	0.00	0.00
ATOM	1933	HB2	LEU	X	126	50.995	45.506	33.235	0.00	0.00
ATOM	1934	HB3	LEU	X	126	52.762	45.537	32.918	0.00	0.00
ATOM	1935	CG	LEU	X	126	51.998	47.413	33.605	0.00	0.00
ATOM	1936	HG	LEU	X	126	51.026	47.903	33.549	0.00	0.00
ATOM	1937	CD1	LEU	X	126	52.204	47.093	35.118	0.00	0.00
ATOM	1938	HD11	LEU	X	126	53.173	46.595	35.163	0.00	0.00
ATOM	1939	HD12	LEU	X	126	51.428	46.430	35.500	0.00	0.00
ATOM	1940	HD13	LEU	X	126	52.229	48.097	35.541	0.00	0.00
ATOM	1941	CD2	LEU	X	126	53.281	48.237	33.137	0.00	0.00
ATOM	1942	HD21	LEU	X	126	53.505	49.091	33.777	0.00	0.00
ATOM	1943	HD22	LEU	X	126	54.117	47.550	33.005	0.00	0.00
ATOM	1944	HD23	LEU	X	126	53.092	48.539	32.107	0.00	0.00
ATOM	1945	C	LEU	X	126	51.570	45.145	30.505	0.00	0.00
ATOM	1946	O	LEU	X	126	50.489	44.597	30.220	0.00	0.00
ATOM	1947	N	ASP	X	127	52.802	44.623	30.191	0.00	0.00
ATOM	1948	H	ASP	X	127	53.575	44.972	30.739	0.00	0.00
ATOM	1949	CA	ASP	X	127	53.058	43.742	29.001	0.00	0.00
ATOM	1950	HA	ASP	X	127	52.329	43.987	28.228	0.00	0.00
ATOM	1951	CB	ASP	X	127	54.437	43.962	28.380	0.00	0.00
ATOM	1952	HB2	ASP	X	127	54.717	45.016	28.377	0.00	0.00
ATOM	1953	HB3	ASP	X	127	55.186	43.476	29.005	0.00	0.00
ATOM	1954	CG	ASP	X	127	54.628	43.443	27.025	0.00	0.00
ATOM	1955	OD1	ASP	X	127	53.735	43.718	26.178	0.00	0.00
ATOM	1956	OD2	ASP	X	127	55.649	42.863	26.724	0.00	0.00
ATOM	1957	C	ASP	X	127	52.816	42.310	29.320	0.00	0.00
ATOM	1958	O	ASP	X	127	53.639	41.468	28.992	0.00	0.00
ATOM	1959	N	VAL	X	128	51.730	42.097	30.081	0.00	0.00
ATOM	1960	H	VAL	X	128	51.126	42.897	30.204	0.00	0.00
ATOM	1961	CA	VAL	X	128	51.242	40.771	30.403	0.00	0.00
ATOM	1962	HA	VAL	X	128	51.425	40.064	29.594	0.00	0.00
ATOM	1963	CB	VAL	X	128	51.845	40.235	31.687	0.00	0.00
ATOM	1964	HB	VAL	X	128	52.934	40.237	31.643	0.00	0.00
ATOM	1965	CG1	VAL	X	128	51.555	41.109	32.912	0.00	0.00
ATOM	1966	HG11	VAL	X	128	51.811	42.148	32.704	0.00	0.00
ATOM	1967	HG12	VAL	X	128	50.519	40.867	33.149	0.00	0.00
ATOM	1968	HG13	VAL	X	128	52.236	40.788	33.701	0.00	0.00

ATOM	1969	CG2	VAL	X	128	51.495	38.778	32.184	0.00	0.00
ATOM	1970	HG21	VAL	X	128	50.430	38.734	32.410	0.00	0.00
ATOM	1971	HG22	VAL	X	128	52.158	38.494	33.001	0.00	0.00
ATOM	1972	HG23	VAL	X	128	51.751	38.115	31.358	0.00	0.00
ATOM	1973	C	VAL	X	128	49.774	40.826	30.497	0.00	0.00
ATOM	1974	O	VAL	X	128	49.154	39.817	30.238	0.00	0.00
ATOM	1975	N	TYR	X	129	49.146	42.004	30.713	0.00	0.00
ATOM	1976	H	TYR	X	129	49.761	42.796	30.834	0.00	0.00
ATOM	1977	CA	TYR	X	129	47.631	42.151	30.876	0.00	0.00
ATOM	1978	HA	TYR	X	129	47.155	41.253	31.269	0.00	0.00
ATOM	1979	CB	TYR	X	129	47.384	43.240	31.941	0.00	0.00
ATOM	1980	HB2	TYR	X	129	47.558	44.233	31.525	0.00	0.00
ATOM	1981	HB3	TYR	X	129	46.313	43.302	32.134	0.00	0.00
ATOM	1982	CG	TYR	X	129	47.986	43.087	33.267	0.00	0.00
ATOM	1983	CD1	TYR	X	129	48.098	41.856	33.936	0.00	0.00
ATOM	1984	HD1	TYR	X	129	47.690	40.958	33.497	0.00	0.00
ATOM	1985	CE1	TYR	X	129	48.706	41.825	35.214	0.00	0.00
ATOM	1986	HE1	TYR	X	129	48.821	40.869	35.703	0.00	0.00
ATOM	1987	CZ	TYR	X	129	49.085	43.025	35.816	0.00	0.00
ATOM	1988	OH	TYR	X	129	49.554	43.014	37.111	0.00	0.00
ATOM	1989	HH	TYR	X	129	49.761	42.149	37.470	0.00	0.00
ATOM	1990	CE2	TYR	X	129	48.968	44.252	35.155	0.00	0.00
ATOM	1991	HE2	TYR	X	129	49.238	45.101	35.765	0.00	0.00
ATOM	1992	CD2	TYR	X	129	48.457	44.311	33.899	0.00	0.00
ATOM	1993	HD2	TYR	X	129	48.381	45.274	33.416	0.00	0.00
ATOM	1994	C	TYR	X	129	47.025	42.410	29.438	0.00	0.00
ATOM	1995	O	TYR	X	129	46.618	43.562	29.222	0.00	0.00
ATOM	1996	N	ASP	X	130	46.787	41.419	28.611	0.00	0.00
ATOM	1997	H	ASP	X	130	47.040	40.490	28.915	0.00	0.00
ATOM	1998	CA	ASP	X	130	45.963	41.525	27.403	0.00	0.00
ATOM	1999	HA	ASP	X	130	45.415	42.466	27.448	0.00	0.00
ATOM	2000	CB	ASP	X	130	46.849	41.908	26.176	0.00	0.00
ATOM	2001	HB2	ASP	X	130	47.580	42.693	26.370	0.00	0.00
ATOM	2002	HB3	ASP	X	130	47.533	41.072	26.028	0.00	0.00
ATOM	2003	CG	ASP	X	130	45.891	42.168	24.917	0.00	0.00
ATOM	2004	OD1	ASP	X	130	45.102	41.265	24.456	0.00	0.00
ATOM	2005	OD2	ASP	X	130	45.923	43.345	24.391	0.00	0.00
ATOM	2006	C	ASP	X	130	44.999	40.329	27.206	0.00	0.00
ATOM	2007	O	ASP	X	130	45.396	39.165	27.069	0.00	0.00
ATOM	2008	N	GLY	X	131	43.700	40.544	27.034	0.00	0.00
ATOM	2009	H	GLY	X	131	43.420	41.514	27.068	0.00	0.00
ATOM	2010	CA	GLY	X	131	42.725	39.490	26.945	0.00	0.00
ATOM	2011	HA2	GLY	X	131	42.981	38.790	27.741	0.00	0.00
ATOM	2012	HA3	GLY	X	131	41.745	39.907	27.177	0.00	0.00
ATOM	2013	C	GLY	X	131	42.516	38.699	25.677	0.00	0.00
ATOM	2014	O	GLY	X	131	41.667	37.852	25.744	0.00	0.00
ATOM	2015	N	ARG	X	132	43.199	39.049	24.634	0.00	0.00
ATOM	2016	H	ARG	X	132	43.785	39.858	24.787	0.00	0.00
ATOM	2017	CA	ARG	X	132	42.997	38.476	23.287	0.00	0.00
ATOM	2018	HA	ARG	X	132	42.000	38.824	23.019	0.00	0.00
ATOM	2019	CB	ARG	X	132	43.858	39.132	22.213	0.00	0.00
ATOM	2020	HB2	ARG	X	132	43.536	38.707	21.262	0.00	0.00
ATOM	2021	HB3	ARG	X	132	43.623	40.195	22.263	0.00	0.00
ATOM	2022	CG	ARG	X	132	45.431	38.878	22.344	0.00	0.00
ATOM	2023	HG2	ARG	X	132	45.669	38.991	23.402	0.00	0.00
ATOM	2024	HG3	ARG	X	132	45.564	37.820	22.119	0.00	0.00
ATOM	2025	CD	ARG	X	132	46.368	39.691	21.441	0.00	0.00
ATOM	2026	HD2	ARG	X	132	47.286	39.116	21.316	0.00	0.00
ATOM	2027	HD3	ARG	X	132	45.955	39.784	20.436	0.00	0.00
ATOM	2028	NE	ARG	X	132	46.532	41.031	22.003	0.00	0.00
ATOM	2029	HE	ARG	X	132	46.053	41.204	22.875	0.00	0.00
ATOM	2030	CZ	ARG	X	132	47.136	42.066	21.343	0.00	0.00
ATOM	2031	NH1	ARG	X	132	47.752	41.912	20.168	0.00	0.00
ATOM	2032	HH11	ARG	X	132	47.584	41.083	19.617	0.00	0.00
ATOM	2033	HH12	ARG	X	132	48.274	42.636	19.694	0.00	0.00
ATOM	2034	NH2	ARG	X	132	47.253	43.254	21.897	0.00	0.00
ATOM	2035	HH21	ARG	X	132	46.879	43.420	22.821	0.00	0.00

ATOM	2036	HH22	ARG	X	132	47.905	43.928	21.522	0.00	0.00
ATOM	2037	C	ARG	X	132	42.909	36.932	23.206	0.00	0.00
ATOM	2038	O	ARG	X	132	41.898	36.370	22.820	0.00	0.00
ATOM	2039	N	PHE	X	133	43.997	36.215	23.634	0.00	0.00
ATOM	2040	H	PHE	X	133	44.766	36.707	24.066	0.00	0.00
ATOM	2041	CA	PHE	X	133	44.028	34.744	23.329	0.00	0.00
ATOM	2042	HA	PHE	X	133	43.886	34.587	22.260	0.00	0.00
ATOM	2043	CB	PHE	X	133	45.374	34.204	23.804	0.00	0.00
ATOM	2044	HB2	PHE	X	133	45.562	34.307	24.873	0.00	0.00
ATOM	2045	HB3	PHE	X	133	45.317	33.123	23.684	0.00	0.00
ATOM	2046	CG	PHE	X	133	46.568	34.668	22.966	0.00	0.00
ATOM	2047	CD1	PHE	X	133	47.493	35.437	23.564	0.00	0.00
ATOM	2048	HD1	PHE	X	133	47.391	35.775	24.584	0.00	0.00
ATOM	2049	CE1	PHE	X	133	48.640	35.815	22.865	0.00	0.00
ATOM	2050	HE1	PHE	X	133	49.288	36.516	23.372	0.00	0.00
ATOM	2051	CZ	PHE	X	133	48.897	35.340	21.537	0.00	0.00
ATOM	2052	HZ	PHE	X	133	49.804	35.597	21.010	0.00	0.00
ATOM	2053	CE2	PHE	X	133	47.941	34.482	20.927	0.00	0.00
ATOM	2054	HE2	PHE	X	133	48.164	34.090	19.946	0.00	0.00
ATOM	2055	CD2	PHE	X	133	46.765	34.177	21.653	0.00	0.00
ATOM	2056	HD2	PHE	X	133	46.076	33.494	21.179	0.00	0.00
ATOM	2057	C	PHE	X	133	42.993	33.986	24.138	0.00	0.00
ATOM	2058	O	PHE	X	133	42.396	33.128	23.553	0.00	0.00
ATOM	2059	N	LEU	X	134	42.683	34.345	25.416	0.00	0.00
ATOM	2060	H	LEU	X	134	43.298	35.014	25.856	0.00	0.00
ATOM	2061	CA	LEU	X	134	41.526	33.825	26.230	0.00	0.00
ATOM	2062	HA	LEU	X	134	41.911	32.810	26.331	0.00	0.00
ATOM	2063	CB	LEU	X	134	41.576	34.463	27.661	0.00	0.00
ATOM	2064	HB2	LEU	X	134	42.498	34.276	28.212	0.00	0.00
ATOM	2065	HB3	LEU	X	134	41.508	35.538	27.498	0.00	0.00
ATOM	2066	CG	LEU	X	134	40.593	33.869	28.755	0.00	0.00
ATOM	2067	HG	LEU	X	134	40.716	32.796	28.607	0.00	0.00
ATOM	2068	CD1	LEU	X	134	40.979	34.190	30.212	0.00	0.00
ATOM	2069	HD11	LEU	X	134	41.012	35.279	30.253	0.00	0.00
ATOM	2070	HD12	LEU	X	134	41.986	33.884	30.497	0.00	0.00
ATOM	2071	HD13	LEU	X	134	40.363	33.772	31.007	0.00	0.00
ATOM	2072	CD2	LEU	X	134	39.130	34.324	28.512	0.00	0.00
ATOM	2073	HD21	LEU	X	134	38.761	33.667	27.725	0.00	0.00
ATOM	2074	HD22	LEU	X	134	38.569	34.286	29.446	0.00	0.00
ATOM	2075	HD23	LEU	X	134	39.064	35.337	28.114	0.00	0.00
ATOM	2076	C	LEU	X	134	40.185	33.940	25.402	0.00	0.00
ATOM	2077	O	LEU	X	134	39.322	33.028	25.224	0.00	0.00
ATOM	2078	N	VAL	X	135	39.913	35.188	25.003	0.00	0.00
ATOM	2079	H	VAL	X	135	40.601	35.857	25.318	0.00	0.00
ATOM	2080	CA	VAL	X	135	38.728	35.661	24.255	0.00	0.00
ATOM	2081	HA	VAL	X	135	37.841	35.373	24.819	0.00	0.00
ATOM	2082	CB	VAL	X	135	38.825	37.228	24.145	0.00	0.00
ATOM	2083	HB	VAL	X	135	39.823	37.474	23.783	0.00	0.00
ATOM	2084	CG1	VAL	X	135	37.798	37.662	23.062	0.00	0.00
ATOM	2085	HG11	VAL	X	135	37.861	37.145	22.105	0.00	0.00
ATOM	2086	HG12	VAL	X	135	36.780	37.392	23.344	0.00	0.00
ATOM	2087	HG13	VAL	X	135	37.800	38.750	22.982	0.00	0.00
ATOM	2088	CG2	VAL	X	135	38.558	37.872	25.551	0.00	0.00
ATOM	2089	HG21	VAL	X	135	39.217	37.584	26.370	0.00	0.00
ATOM	2090	HG22	VAL	X	135	37.506	37.736	25.803	0.00	0.00
ATOM	2091	HG23	VAL	X	135	38.684	38.944	25.400	0.00	0.00
ATOM	2092	C	VAL	X	135	38.507	34.889	22.929	0.00	0.00
ATOM	2093	O	VAL	X	135	37.378	34.619	22.477	0.00	0.00
ATOM	2094	N	GLN	X	136	39.626	34.516	22.252	0.00	0.00
ATOM	2095	H	GLN	X	136	40.450	34.918	22.675	0.00	0.00
ATOM	2096	CA	GLN	X	136	39.654	33.751	21.000	0.00	0.00
ATOM	2097	HA	GLN	X	136	38.797	34.061	20.402	0.00	0.00
ATOM	2098	CB	GLN	X	136	41.031	33.913	20.346	0.00	0.00
ATOM	2099	HB2	GLN	X	136	41.281	34.968	20.461	0.00	0.00
ATOM	2100	HB3	GLN	X	136	41.791	33.376	20.914	0.00	0.00
ATOM	2101	CG	GLN	X	136	41.026	33.402	18.954	0.00	0.00
ATOM	2102	HG2	GLN	X	136	40.081	33.734	18.526	0.00	0.00

ATOM	2103	HG3	GLN	X	136	41.922	33.785	18.466	0.00	0.00
ATOM	2104	CD	GLN	X	136	41.188	31.855	18.798	0.00	0.00
ATOM	2105	OE1	GLN	X	136	41.938	31.178	19.498	0.00	0.00
ATOM	2106	NE2	GLN	X	136	40.490	31.239	17.852	0.00	0.00
ATOM	2107	HE21	GLN	X	136	40.699	30.258	17.736	0.00	0.00
ATOM	2108	HE22	GLN	X	136	39.733	31.740	17.410	0.00	0.00
ATOM	2109	C	GLN	X	136	39.389	32.255	21.274	0.00	0.00
ATOM	2110	O	GLN	X	136	38.801	31.540	20.489	0.00	0.00
ATOM	2111	N	ALA	X	137	39.989	31.617	22.304	0.00	0.00
ATOM	2112	H	ALA	X	137	40.590	32.224	22.843	0.00	0.00
ATOM	2113	CA	ALA	X	137	39.831	30.233	22.722	0.00	0.00
ATOM	2114	HA	ALA	X	137	40.022	29.572	21.877	0.00	0.00
ATOM	2115	CB	ALA	X	137	40.894	29.924	23.808	0.00	0.00
ATOM	2116	HB1	ALA	X	137	40.924	28.843	23.947	0.00	0.00
ATOM	2117	HB2	ALA	X	137	40.573	30.436	24.714	0.00	0.00
ATOM	2118	HB3	ALA	X	137	41.850	30.348	23.500	0.00	0.00
ATOM	2119	C	ALA	X	137	38.419	29.965	23.345	0.00	0.00
ATOM	2120	O	ALA	X	137	37.714	29.009	23.038	0.00	0.00
ATOM	2121	N	GLU	X	138	37.893	30.929	24.153	0.00	0.00
ATOM	2122	H	GLU	X	138	38.542	31.665	24.391	0.00	0.00
ATOM	2123	CA	GLU	X	138	36.719	30.744	25.024	0.00	0.00
ATOM	2124	HA	GLU	X	138	36.390	29.712	24.905	0.00	0.00
ATOM	2125	CB	GLU	X	138	37.244	30.987	26.439	0.00	0.00
ATOM	2126	HB2	GLU	X	138	37.572	32.026	26.402	0.00	0.00
ATOM	2127	HB3	GLU	X	138	36.453	30.896	27.183	0.00	0.00
ATOM	2128	CG	GLU	X	138	38.430	30.091	26.850	0.00	0.00
ATOM	2129	HG2	GLU	X	138	39.430	30.339	26.496	0.00	0.00
ATOM	2130	HG3	GLU	X	138	38.523	30.139	27.935	0.00	0.00
ATOM	2131	CD	GLU	X	138	38.108	28.609	26.768	0.00	0.00
ATOM	2132	OE1	GLU	X	138	37.031	28.243	27.333	0.00	0.00
ATOM	2133	OE2	GLU	X	138	38.707	27.758	26.101	0.00	0.00
ATOM	2134	C	GLU	X	138	35.505	31.536	24.749	0.00	0.00
ATOM	2135	O	GLU	X	138	34.405	31.190	25.179	0.00	0.00
ATOM	2136	N	ARG	X	139	35.639	32.672	24.054	0.00	0.00
ATOM	2137	H	ARG	X	139	36.579	32.852	23.732	0.00	0.00
ATOM	2138	CA	ARG	X	139	34.514	33.632	23.690	0.00	0.00
ATOM	2139	HA	ARG	X	139	35.051	34.543	23.427	0.00	0.00
ATOM	2140	CB	ARG	X	139	33.662	33.068	22.544	0.00	0.00
ATOM	2141	HB2	ARG	X	139	33.057	32.242	22.918	0.00	0.00
ATOM	2142	HB3	ARG	X	139	32.936	33.770	22.134	0.00	0.00
ATOM	2143	CG	ARG	X	139	34.455	32.434	21.316	0.00	0.00
ATOM	2144	HG2	ARG	X	139	35.161	33.178	20.947	0.00	0.00
ATOM	2145	HG3	ARG	X	139	34.981	31.537	21.643	0.00	0.00
ATOM	2146	CD	ARG	X	139	33.552	32.077	20.112	0.00	0.00
ATOM	2147	HD2	ARG	X	139	34.113	31.502	19.375	0.00	0.00
ATOM	2148	HD3	ARG	X	139	32.670	31.516	20.418	0.00	0.00
ATOM	2149	NE	ARG	X	139	32.974	33.207	19.333	0.00	0.00
ATOM	2150	HE	ARG	X	139	31.976	33.350	19.389	0.00	0.00
ATOM	2151	CZ	ARG	X	139	33.596	33.875	18.391	0.00	0.00
ATOM	2152	NH1	ARG	X	139	34.849	33.693	18.093	0.00	0.00
ATOM	2153	HH11	ARG	X	139	35.293	32.865	18.464	0.00	0.00
ATOM	2154	HH12	ARG	X	139	35.309	34.180	17.336	0.00	0.00
ATOM	2155	NH2	ARG	X	139	33.060	34.771	17.675	0.00	0.00
ATOM	2156	HH21	ARG	X	139	32.088	34.972	17.862	0.00	0.00
ATOM	2157	HH22	ARG	X	139	33.534	35.155	16.871	0.00	0.00
ATOM	2158	C	ARG	X	139	33.765	34.083	25.010	0.00	0.00
ATOM	2159	O	ARG	X	139	32.538	34.178	24.963	0.00	0.00
ATOM	2160	N	THR	X	140	34.466	34.231	26.142	0.00	0.00
ATOM	2161	H	THR	X	140	35.472	34.170	26.089	0.00	0.00
ATOM	2162	CA	THR	X	140	33.964	35.174	27.229	0.00	0.00
ATOM	2163	HA	THR	X	140	32.895	34.992	27.339	0.00	0.00
ATOM	2164	CB	THR	X	140	34.524	34.886	28.610	0.00	0.00
ATOM	2165	HB	THR	X	140	34.453	35.691	29.342	0.00	0.00
ATOM	2166	CG2	THR	X	140	33.995	33.576	29.103	0.00	0.00
ATOM	2167	HG21	THR	X	140	34.381	33.417	30.110	0.00	0.00
ATOM	2168	HG22	THR	X	140	34.196	32.817	28.348	0.00	0.00
ATOM	2169	HG23	THR	X	140	32.910	33.677	29.122	0.00	0.00

ATOM	2170	OG1	THR	X	140	35.912	34.729	28.486	0.00	0.00
ATOM	2171	HG1	THR	X	140	36.305	35.594	28.628	0.00	0.00
ATOM	2172	C	THR	X	140	34.287	36.523	26.886	0.00	0.00
ATOM	2173	O	THR	X	140	34.984	36.773	25.918	0.00	0.00
ATOM	2174	N	VAL	X	141	33.717	37.492	27.629	0.00	0.00
ATOM	2175	H	VAL	X	141	33.156	37.192	28.413	0.00	0.00
ATOM	2176	CA	VAL	X	141	34.117	38.867	27.646	0.00	0.00
ATOM	2177	HA	VAL	X	141	34.688	39.133	26.757	0.00	0.00
ATOM	2178	CB	VAL	X	141	32.949	39.885	27.726	0.00	0.00
ATOM	2179	HB	VAL	X	141	32.305	39.628	28.567	0.00	0.00
ATOM	2180	CG1	VAL	X	141	33.361	41.353	27.724	0.00	0.00
ATOM	2181	HG11	VAL	X	141	33.875	41.518	28.670	0.00	0.00
ATOM	2182	HG12	VAL	X	141	34.074	41.564	26.927	0.00	0.00
ATOM	2183	HG13	VAL	X	141	32.501	41.997	27.542	0.00	0.00
ATOM	2184	CG2	VAL	X	141	32.122	39.716	26.457	0.00	0.00
ATOM	2185	HG21	VAL	X	141	31.353	40.489	26.457	0.00	0.00
ATOM	2186	HG22	VAL	X	141	31.664	38.727	26.450	0.00	0.00
ATOM	2187	HG23	VAL	X	141	32.828	39.889	25.645	0.00	0.00
ATOM	2188	C	VAL	X	141	35.126	39.058	28.771	0.00	0.00
ATOM	2189	O	VAL	X	141	34.920	38.507	29.838	0.00	0.00
ATOM	2190	N	LEU	X	142	36.184	39.848	28.624	0.00	0.00
ATOM	2191	H	LEU	X	142	36.287	40.336	27.746	0.00	0.00
ATOM	2192	CA	LEU	X	142	37.233	40.154	29.581	0.00	0.00
ATOM	2193	HA	LEU	X	142	36.985	39.884	30.608	0.00	0.00
ATOM	2194	CB	LEU	X	142	38.479	39.299	29.159	0.00	0.00
ATOM	2195	HB2	LEU	X	142	38.093	38.310	28.915	0.00	0.00
ATOM	2196	HB3	LEU	X	142	38.812	39.728	28.214	0.00	0.00
ATOM	2197	CG	LEU	X	142	39.658	39.361	30.138	0.00	0.00
ATOM	2198	HG	LEU	X	142	39.316	39.303	31.171	0.00	0.00
ATOM	2199	CD1	LEU	X	142	40.376	37.992	29.868	0.00	0.00
ATOM	2200	HD11	LEU	X	142	39.597	37.230	29.880	0.00	0.00
ATOM	2201	HD12	LEU	X	142	41.187	37.901	30.591	0.00	0.00
ATOM	2202	HD13	LEU	X	142	40.968	37.961	28.953	0.00	0.00
ATOM	2203	CD2	LEU	X	142	40.604	40.589	29.894	0.00	0.00
ATOM	2204	HD21	LEU	X	142	40.971	40.740	28.879	0.00	0.00
ATOM	2205	HD22	LEU	X	142	40.083	41.425	30.362	0.00	0.00
ATOM	2206	HD23	LEU	X	142	41.534	40.429	30.439	0.00	0.00
ATOM	2207	C	LEU	X	142	37.380	41.673	29.630	0.00	0.00
ATOM	2208	O	LEU	X	142	37.297	42.289	28.591	0.00	0.00
ATOM	2209	N	VAL	X	143	37.563	42.292	30.832	0.00	0.00
ATOM	2210	H	VAL	X	143	37.603	41.784	31.704	0.00	0.00
ATOM	2211	CA	VAL	X	143	37.683	43.711	31.029	0.00	0.00
ATOM	2212	HA	VAL	X	143	37.879	44.232	30.091	0.00	0.00
ATOM	2213	CB	VAL	X	143	36.468	44.210	31.766	0.00	0.00
ATOM	2214	HB	VAL	X	143	36.389	43.657	32.702	0.00	0.00
ATOM	2215	CG1	VAL	X	143	36.427	45.691	32.120	0.00	0.00
ATOM	2216	HG11	VAL	X	143	35.624	45.972	32.802	0.00	0.00
ATOM	2217	HG12	VAL	X	143	37.250	46.113	32.698	0.00	0.00
ATOM	2218	HG13	VAL	X	143	36.312	46.251	31.192	0.00	0.00
ATOM	2219	CG2	VAL	X	143	35.143	43.863	30.993	0.00	0.00
ATOM	2220	HG21	VAL	X	143	35.166	44.117	29.933	0.00	0.00
ATOM	2221	HG22	VAL	X	143	34.347	44.404	31.504	0.00	0.00
ATOM	2222	HG23	VAL	X	143	34.980	42.785	31.022	0.00	0.00
ATOM	2223	C	VAL	X	143	38.925	43.918	31.907	0.00	0.00
ATOM	2224	O	VAL	X	143	39.412	42.982	32.586	0.00	0.00
ATOM	2225	N	SER	X	144	39.534	45.070	31.775	0.00	0.00
ATOM	2226	H	SER	X	144	39.067	45.678	31.118	0.00	0.00
ATOM	2227	CA	SER	X	144	40.509	45.649	32.706	0.00	0.00
ATOM	2228	HA	SER	X	144	40.622	45.031	33.596	0.00	0.00
ATOM	2229	CB	SER	X	144	41.902	45.564	32.037	0.00	0.00
ATOM	2230	HB2	SER	X	144	41.890	44.561	31.610	0.00	0.00
ATOM	2231	HB3	SER	X	144	41.931	46.317	31.250	0.00	0.00
ATOM	2232	OG	SER	X	144	43.033	45.763	32.851	0.00	0.00
ATOM	2233	HG	SER	X	144	43.842	45.441	32.448	0.00	0.00
ATOM	2234	C	SER	X	144	40.325	47.132	33.048	0.00	0.00
ATOM	2235	O	SER	X	144	39.873	47.936	32.198	0.00	0.00
ATOM	2236	N	MET	X	145	40.569	47.507	34.243	0.00	0.00

ATOM	2237	H	MET	X	145	40.966	46.786	34.829	0.00	0.00
ATOM	2238	CA	MET	X	145	40.381	48.856	34.786	0.00	0.00
ATOM	2239	HA	MET	X	145	39.848	49.404	34.009	0.00	0.00
ATOM	2240	CB	MET	X	145	39.581	48.800	36.084	0.00	0.00
ATOM	2241	HB2	MET	X	145	39.226	49.756	36.469	0.00	0.00
ATOM	2242	HB3	MET	X	145	38.658	48.250	35.903	0.00	0.00
ATOM	2243	CG	MET	X	145	40.260	48.017	37.192	0.00	0.00
ATOM	2244	HG2	MET	X	145	40.271	46.982	36.851	0.00	0.00
ATOM	2245	HG3	MET	X	145	41.328	48.056	37.408	0.00	0.00
ATOM	2246	SD	MET	X	145	39.217	47.796	38.669	0.00	0.00
ATOM	2247	CE	MET	X	145	37.746	46.862	38.144	0.00	0.00
ATOM	2248	HE1	MET	X	145	37.275	47.389	37.314	0.00	0.00
ATOM	2249	HE2	MET	X	145	38.039	45.871	37.798	0.00	0.00
ATOM	2250	HE3	MET	X	145	37.003	46.790	38.938	0.00	0.00
ATOM	2251	C	MET	X	145	41.728	49.549	35.078	0.00	0.00
ATOM	2252	O	MET	X	145	42.814	48.939	34.990	0.00	0.00
ATOM	2253	N	ASN	X	146	41.670	50.797	35.526	0.00	0.00
ATOM	2254	H	ASN	X	146	40.778	51.268	35.582	0.00	0.00
ATOM	2255	CA	ASN	X	146	42.908	51.605	35.868	0.00	0.00
ATOM	2256	HA	ASN	X	146	43.625	50.841	36.171	0.00	0.00
ATOM	2257	CB	ASN	X	146	43.352	52.332	34.617	0.00	0.00
ATOM	2258	HB2	ASN	X	146	43.163	51.647	33.792	0.00	0.00
ATOM	2259	HB3	ASN	X	146	42.792	53.260	34.500	0.00	0.00
ATOM	2260	CG	ASN	X	146	44.795	52.716	34.672	0.00	0.00
ATOM	2261	OD1	ASN	X	146	45.621	51.826	34.542	0.00	0.00
ATOM	2262	ND2	ASN	X	146	45.078	54.018	34.748	0.00	0.00
ATOM	2263	HD21	ASN	X	146	45.985	54.444	34.869	0.00	0.00
ATOM	2264	HD22	ASN	X	146	44.309	54.661	34.872	0.00	0.00
ATOM	2265	C	ASN	X	146	42.574	52.590	37.038	0.00	0.00
ATOM	2266	O	ASN	X	146	41.438	53.124	37.087	0.00	0.00
ATOM	2267	N	TYR	X	147	43.537	52.815	37.919	0.00	0.00
ATOM	2268	H	TYR	X	147	44.445	52.414	37.732	0.00	0.00
ATOM	2269	CA	TYR	X	147	43.372	53.478	39.200	0.00	0.00
ATOM	2270	HA	TYR	X	147	42.766	54.372	39.054	0.00	0.00
ATOM	2271	CB	TYR	X	147	42.603	52.521	40.154	0.00	0.00
ATOM	2272	HB2	TYR	X	147	42.580	52.957	41.153	0.00	0.00
ATOM	2273	HB3	TYR	X	147	41.560	52.428	39.852	0.00	0.00
ATOM	2274	CG	TYR	X	147	43.137	51.128	40.305	0.00	0.00
ATOM	2275	CD1	TYR	X	147	42.734	50.136	39.315	0.00	0.00
ATOM	2276	HD1	TYR	X	147	42.085	50.324	38.473	0.00	0.00
ATOM	2277	CE1	TYR	X	147	43.245	48.845	39.478	0.00	0.00
ATOM	2278	HE1	TYR	X	147	42.957	48.122	38.729	0.00	0.00
ATOM	2279	CZ	TYR	X	147	44.055	48.538	40.647	0.00	0.00
ATOM	2280	OH	TYR	X	147	44.578	47.272	40.724	0.00	0.00
ATOM	2281	HH	TYR	X	147	45.329	47.181	41.316	0.00	0.00
ATOM	2282	CE2	TYR	X	147	44.477	49.512	41.597	0.00	0.00
ATOM	2283	HE2	TYR	X	147	45.220	49.363	42.366	0.00	0.00
ATOM	2284	CD2	TYR	X	147	43.988	50.804	41.415	0.00	0.00
ATOM	2285	HD2	TYR	X	147	44.294	51.557	42.126	0.00	0.00
ATOM	2286	C	TYR	X	147	44.666	53.881	39.957	0.00	0.00
ATOM	2287	O	TYR	X	147	45.722	53.312	39.639	0.00	0.00
ATOM	2288	N	ARG	X	148	44.454	54.825	40.869	0.00	0.00
ATOM	2289	H	ARG	X	148	43.500	55.110	41.036	0.00	0.00
ATOM	2290	CA	ARG	X	148	45.432	55.505	41.627	0.00	0.00
ATOM	2291	HA	ARG	X	148	46.203	55.910	40.970	0.00	0.00
ATOM	2292	CB	ARG	X	148	44.733	56.703	42.359	0.00	0.00
ATOM	2293	HB2	ARG	X	148	43.954	56.509	43.096	0.00	0.00
ATOM	2294	HB3	ARG	X	148	45.503	57.281	42.870	0.00	0.00
ATOM	2295	CG	ARG	X	148	44.147	57.718	41.279	0.00	0.00
ATOM	2296	HG2	ARG	X	148	44.947	58.208	40.726	0.00	0.00
ATOM	2297	HG3	ARG	X	148	43.453	57.164	40.647	0.00	0.00
ATOM	2298	CD	ARG	X	148	43.245	58.802	41.865	0.00	0.00
ATOM	2299	HD2	ARG	X	148	43.874	59.410	42.515	0.00	0.00
ATOM	2300	HD3	ARG	X	148	42.835	59.387	41.042	0.00	0.00
ATOM	2301	NE	ARG	X	148	42.104	58.239	42.487	0.00	0.00
ATOM	2302	HE	ARG	X	148	41.884	57.272	42.294	0.00	0.00
ATOM	2303	CZ	ARG	X	148	41.213	58.915	43.220	0.00	0.00

ATOM	2304	NH1	ARG	X	148	41.394	60.125	43.579	0.00	0.00
ATOM	2305	HH11	ARG	X	148	42.198	60.615	43.215	0.00	0.00
ATOM	2306	HH12	ARG	X	148	40.610	60.589	44.016	0.00	0.00
ATOM	2307	NH2	ARG	X	148	40.133	58.331	43.664	0.00	0.00
ATOM	2308	HH21	ARG	X	148	39.955	57.360	43.450	0.00	0.00
ATOM	2309	HH22	ARG	X	148	39.513	58.876	44.245	0.00	0.00
ATOM	2310	C	ARG	X	148	46.127	54.592	42.613	0.00	0.00
ATOM	2311	O	ARG	X	148	45.445	54.100	43.491	0.00	0.00
ATOM	2312	N	VAL	X	149	47.423	54.458	42.452	0.00	0.00
ATOM	2313	H	VAL	X	149	47.815	54.902	41.634	0.00	0.00
ATOM	2314	CA	VAL	X	149	48.326	53.716	43.349	0.00	0.00
ATOM	2315	HA	VAL	X	149	47.792	53.119	44.088	0.00	0.00
ATOM	2316	CB	VAL	X	149	49.175	52.745	42.573	0.00	0.00
ATOM	2317	HB	VAL	X	149	49.985	52.367	43.198	0.00	0.00
ATOM	2318	CG1	VAL	X	149	48.284	51.548	42.172	0.00	0.00
ATOM	2319	HG11	VAL	X	149	48.856	50.683	41.836	0.00	0.00
ATOM	2320	HG12	VAL	X	149	47.616	51.275	42.989	0.00	0.00
ATOM	2321	HG13	VAL	X	149	47.644	51.757	41.315	0.00	0.00
ATOM	2322	CG2	VAL	X	149	49.911	53.309	41.299	0.00	0.00
ATOM	2323	HG21	VAL	X	149	49.168	53.724	40.618	0.00	0.00
ATOM	2324	HG22	VAL	X	149	50.348	52.511	40.699	0.00	0.00
ATOM	2325	HG23	VAL	X	149	50.794	53.914	41.502	0.00	0.00
ATOM	2326	C	VAL	X	149	49.220	54.762	44.098	0.00	0.00
ATOM	2327	O	VAL	X	149	49.434	55.865	43.655	0.00	0.00
ATOM	2328	N	GLY	X	150	49.801	54.365	45.165	0.00	0.00
ATOM	2329	H	GLY	X	150	49.750	53.400	45.458	0.00	0.00
ATOM	2330	CA	GLY	X	150	50.740	55.187	45.933	0.00	0.00
ATOM	2331	HA2	GLY	X	150	51.317	54.523	46.577	0.00	0.00
ATOM	2332	HA3	GLY	X	150	51.438	55.719	45.287	0.00	0.00
ATOM	2333	C	GLY	X	150	49.914	56.207	46.792	0.00	0.00
ATOM	2334	O	GLY	X	150	48.721	55.956	46.978	0.00	0.00
ATOM	2335	N	ALA	X	151	50.456	57.344	47.199	0.00	0.00
ATOM	2336	H	ALA	X	151	51.396	57.548	46.892	0.00	0.00
ATOM	2337	CA	ALA	X	151	49.667	58.452	47.757	0.00	0.00
ATOM	2338	HA	ALA	X	151	49.251	58.183	48.728	0.00	0.00
ATOM	2339	CB	ALA	X	151	50.507	59.711	48.205	0.00	0.00
ATOM	2340	HB1	ALA	X	151	51.347	59.952	47.554	0.00	0.00
ATOM	2341	HB2	ALA	X	151	50.729	59.582	49.265	0.00	0.00
ATOM	2342	HB3	ALA	X	151	49.943	60.639	48.295	0.00	0.00
ATOM	2343	C	ALA	X	151	48.458	58.831	46.930	0.00	0.00
ATOM	2344	O	ALA	X	151	47.431	59.028	47.598	0.00	0.00
ATOM	2345	N	PHE	X	152	48.451	58.731	45.631	0.00	0.00
ATOM	2346	H	PHE	X	152	49.316	58.584	45.131	0.00	0.00
ATOM	2347	CA	PHE	X	152	47.324	59.306	44.884	0.00	0.00
ATOM	2348	HA	PHE	X	152	47.149	60.357	45.113	0.00	0.00
ATOM	2349	CB	PHE	X	152	47.722	59.246	43.349	0.00	0.00
ATOM	2350	HB2	PHE	X	152	48.600	59.888	43.425	0.00	0.00
ATOM	2351	HB3	PHE	X	152	47.961	58.230	43.035	0.00	0.00
ATOM	2352	CG	PHE	X	152	46.925	59.827	42.220	0.00	0.00
ATOM	2353	CD1	PHE	X	152	47.278	59.518	40.879	0.00	0.00
ATOM	2354	HD1	PHE	X	152	47.959	58.788	40.467	0.00	0.00
ATOM	2355	CE1	PHE	X	152	46.619	60.245	39.816	0.00	0.00
ATOM	2356	HE1	PHE	X	152	46.948	60.021	38.812	0.00	0.00
ATOM	2357	CZ	PHE	X	152	45.599	61.189	40.075	0.00	0.00
ATOM	2358	HZ	PHE	X	152	45.069	61.703	39.287	0.00	0.00
ATOM	2359	CE2	PHE	X	152	45.175	61.389	41.384	0.00	0.00
ATOM	2360	HE2	PHE	X	152	44.364	62.062	41.620	0.00	0.00
ATOM	2361	CD2	PHE	X	152	45.902	60.777	42.436	0.00	0.00
ATOM	2362	HD2	PHE	X	152	45.695	61.024	43.467	0.00	0.00
ATOM	2363	C	PHE	X	152	46.040	58.498	45.076	0.00	0.00
ATOM	2364	O	PHE	X	152	44.977	59.048	44.864	0.00	0.00
ATOM	2365	N	GLY	X	153	46.197	57.289	45.627	0.00	0.00
ATOM	2366	H	GLY	X	153	47.115	56.961	45.891	0.00	0.00
ATOM	2367	CA	GLY	X	153	45.045	56.397	46.016	0.00	0.00
ATOM	2368	HA2	GLY	X	153	44.153	56.846	45.577	0.00	0.00
ATOM	2369	HA3	GLY	X	153	45.279	55.435	45.560	0.00	0.00
ATOM	2370	C	GLY	X	153	44.986	56.156	47.510	0.00	0.00

ATOM	2371	O	GLY	X	153	43.912	55.717	47.833	0.00	0.00
ATOM	2372	N	PHE	X	154	45.981	56.418	48.376	0.00	0.00
ATOM	2373	H	PHE	X	154	46.714	57.053	48.095	0.00	0.00
ATOM	2374	CA	PHE	X	154	46.118	55.781	49.643	0.00	0.00
ATOM	2375	HA	PHE	X	154	45.125	55.644	50.071	0.00	0.00
ATOM	2376	CB	PHE	X	154	46.755	54.416	49.481	0.00	0.00
ATOM	2377	HB2	PHE	X	154	47.791	54.546	49.168	0.00	0.00
ATOM	2378	HB3	PHE	X	154	46.812	53.998	50.486	0.00	0.00
ATOM	2379	CG	PHE	X	154	46.035	53.453	48.536	0.00	0.00
ATOM	2380	CD1	PHE	X	154	46.464	53.145	47.246	0.00	0.00
ATOM	2381	HD1	PHE	X	154	47.357	53.587	46.829	0.00	0.00
ATOM	2382	CE1	PHE	X	154	45.680	52.295	46.389	0.00	0.00
ATOM	2383	HE1	PHE	X	154	46.066	52.055	45.410	0.00	0.00
ATOM	2384	CZ	PHE	X	154	44.554	51.678	46.821	0.00	0.00
ATOM	2385	HZ	PHE	X	154	44.071	50.951	46.185	0.00	0.00
ATOM	2386	CE2	PHE	X	154	44.132	51.977	48.169	0.00	0.00
ATOM	2387	HE2	PHE	X	154	43.260	51.477	48.564	0.00	0.00
ATOM	2388	CD2	PHE	X	154	44.876	52.915	48.982	0.00	0.00
ATOM	2389	HD2	PHE	X	154	44.549	53.183	49.976	0.00	0.00
ATOM	2390	C	PHE	X	154	46.609	56.749	50.717	0.00	0.00
ATOM	2391	O	PHE	X	154	46.921	56.228	51.806	0.00	0.00
ATOM	2392	N	LEU	X	155	46.614	58.061	50.472	0.00	0.00
ATOM	2393	H	LEU	X	155	46.514	58.353	49.511	0.00	0.00
ATOM	2394	CA	LEU	X	155	46.985	59.071	51.469	0.00	0.00
ATOM	2395	HA	LEU	X	155	47.737	58.528	52.042	0.00	0.00
ATOM	2396	CB	LEU	X	155	47.512	60.360	50.739	0.00	0.00
ATOM	2397	HB2	LEU	X	155	48.282	60.058	50.029	0.00	0.00
ATOM	2398	HB3	LEU	X	155	46.730	60.888	50.193	0.00	0.00
ATOM	2399	CG	LEU	X	155	48.108	61.258	51.785	0.00	0.00
ATOM	2400	HG	LEU	X	155	48.350	60.726	52.705	0.00	0.00
ATOM	2401	CD1	LEU	X	155	49.440	61.789	51.172	0.00	0.00
ATOM	2402	HD11	LEU	X	155	49.295	62.289	50.215	0.00	0.00
ATOM	2403	HD12	LEU	X	155	50.248	61.067	51.058	0.00	0.00
ATOM	2404	HD13	LEU	X	155	49.844	62.538	51.854	0.00	0.00
ATOM	2405	CD2	LEU	X	155	47.108	62.383	52.175	0.00	0.00
ATOM	2406	HD21	LEU	X	155	46.838	62.823	51.215	0.00	0.00
ATOM	2407	HD22	LEU	X	155	46.229	61.963	52.662	0.00	0.00
ATOM	2408	HD23	LEU	X	155	47.463	63.013	52.991	0.00	0.00
ATOM	2409	C	LEU	X	155	45.740	59.243	52.299	0.00	0.00
ATOM	2410	O	LEU	X	155	44.689	59.658	51.736	0.00	0.00
ATOM	2411	N	ALA	X	156	45.800	59.153	53.639	0.00	0.00
ATOM	2412	H	ALA	X	156	46.665	58.973	54.128	0.00	0.00
ATOM	2413	CA	ALA	X	156	44.668	59.463	54.513	0.00	0.00
ATOM	2414	HA	ALA	X	156	43.874	59.878	53.893	0.00	0.00
ATOM	2415	CB	ALA	X	156	44.235	58.211	55.200	0.00	0.00
ATOM	2416	HB1	ALA	X	156	44.099	57.296	54.624	0.00	0.00
ATOM	2417	HB2	ALA	X	156	43.279	58.405	55.686	0.00	0.00
ATOM	2418	HB3	ALA	X	156	44.917	58.016	56.028	0.00	0.00
ATOM	2419	C	ALA	X	156	44.928	60.500	55.613	0.00	0.00
ATOM	2420	O	ALA	X	156	46.069	60.660	56.117	0.00	0.00
ATOM	2421	N	LEU	X	157	43.906	61.351	56.002	0.00	0.00
ATOM	2422	H	LEU	X	157	42.992	61.174	55.609	0.00	0.00
ATOM	2423	CA	LEU	X	157	43.904	62.307	57.182	0.00	0.00
ATOM	2424	HA	LEU	X	157	44.825	62.247	57.762	0.00	0.00
ATOM	2425	CB	LEU	X	157	43.740	63.807	56.735	0.00	0.00
ATOM	2426	HB2	LEU	X	157	42.927	63.825	56.009	0.00	0.00
ATOM	2427	HB3	LEU	X	157	43.494	64.457	57.574	0.00	0.00
ATOM	2428	CG	LEU	X	157	45.001	64.244	56.005	0.00	0.00
ATOM	2429	HG	LEU	X	157	45.201	63.597	55.151	0.00	0.00
ATOM	2430	CD1	LEU	X	157	44.775	65.647	55.472	0.00	0.00
ATOM	2431	HD11	LEU	X	157	44.791	66.418	56.242	0.00	0.00
ATOM	2432	HD12	LEU	X	157	43.753	65.641	55.095	0.00	0.00
ATOM	2433	HD13	LEU	X	157	45.552	65.854	54.737	0.00	0.00
ATOM	2434	CD2	LEU	X	157	46.306	64.147	56.852	0.00	0.00
ATOM	2435	HD21	LEU	X	157	46.088	64.449	57.877	0.00	0.00
ATOM	2436	HD22	LEU	X	157	46.607	63.101	56.798	0.00	0.00
ATOM	2437	HD23	LEU	X	157	46.961	64.869	56.364	0.00	0.00

ATOM	2438	C	LEU	X	157	42.676	61.852	58.073	0.00	0.00
ATOM	2439	O	LEU	X	157	41.607	61.535	57.504	0.00	0.00
ATOM	2440	N	PRO	X	158	42.837	61.775	59.415	0.00	0.00
ATOM	2441	CD	PRO	X	158	44.074	61.872	60.186	0.00	0.00
ATOM	2442	HD2	PRO	X	158	44.658	62.775	60.008	0.00	0.00
ATOM	2443	HD3	PRO	X	158	44.617	60.936	60.317	0.00	0.00
ATOM	2444	CG	PRO	X	158	43.669	62.083	61.663	0.00	0.00
ATOM	2445	HG2	PRO	X	158	43.396	63.109	61.910	0.00	0.00
ATOM	2446	HG3	PRO	X	158	44.380	61.682	62.386	0.00	0.00
ATOM	2447	CB	PRO	X	158	42.349	61.212	61.604	0.00	0.00
ATOM	2448	HB2	PRO	X	158	41.622	61.347	62.404	0.00	0.00
ATOM	2449	HB3	PRO	X	158	42.586	60.150	61.663	0.00	0.00
ATOM	2450	CA	PRO	X	158	41.712	61.532	60.286	0.00	0.00
ATOM	2451	HA	PRO	X	158	41.193	60.640	59.932	0.00	0.00
ATOM	2452	C	PRO	X	158	40.686	62.670	60.494	0.00	0.00
ATOM	2453	O	PRO	X	158	40.960	63.872	60.499	0.00	0.00
ATOM	2454	N	GLY	X	159	39.423	62.297	60.694	0.00	0.00
ATOM	2455	H	GLY	X	159	39.163	61.324	60.781	0.00	0.00
ATOM	2456	CA	GLY	X	159	38.280	63.223	61.050	0.00	0.00
ATOM	2457	HA2	GLY	X	159	37.442	62.663	61.465	0.00	0.00
ATOM	2458	HA3	GLY	X	159	38.687	63.880	61.820	0.00	0.00
ATOM	2459	C	GLY	X	159	37.658	64.051	59.975	0.00	0.00
ATOM	2460	O	GLY	X	159	36.617	64.685	60.103	0.00	0.00
ATOM	2461	N	SER	X	160	38.190	64.075	58.720	0.00	0.00
ATOM	2462	H	SER	X	160	39.176	63.874	58.632	0.00	0.00
ATOM	2463	CA	SER	X	160	37.629	64.924	57.652	0.00	0.00
ATOM	2464	HA	SER	X	160	36.726	65.482	57.897	0.00	0.00
ATOM	2465	CB	SER	X	160	38.569	66.145	57.496	0.00	0.00
ATOM	2466	HB2	SER	X	160	38.273	66.815	56.689	0.00	0.00
ATOM	2467	HB3	SER	X	160	38.530	66.719	58.422	0.00	0.00
ATOM	2468	OG	SER	X	160	39.930	65.821	57.264	0.00	0.00
ATOM	2469	HG	SER	X	160	40.477	66.610	57.241	0.00	0.00
ATOM	2470	C	SER	X	160	37.417	64.211	56.363	0.00	0.00
ATOM	2471	O	SER	X	160	37.649	62.991	56.224	0.00	0.00
ATOM	2472	N	ARG	X	161	36.980	64.914	55.322	0.00	0.00
ATOM	2473	H	ARG	X	161	36.771	65.896	55.437	0.00	0.00
ATOM	2474	CA	ARG	X	161	36.717	64.282	53.962	0.00	0.00
ATOM	2475	HA	ARG	X	161	36.810	63.205	54.102	0.00	0.00
ATOM	2476	CB	ARG	X	161	35.302	64.673	53.531	0.00	0.00
ATOM	2477	HB2	ARG	X	161	35.234	65.760	53.487	0.00	0.00
ATOM	2478	HB3	ARG	X	161	35.101	64.285	52.533	0.00	0.00
ATOM	2479	CG	ARG	X	161	34.156	64.098	54.399	0.00	0.00
ATOM	2480	HG2	ARG	X	161	34.459	64.182	55.443	0.00	0.00
ATOM	2481	HG3	ARG	X	161	33.232	64.623	54.157	0.00	0.00
ATOM	2482	CD	ARG	X	161	33.942	62.555	54.093	0.00	0.00
ATOM	2483	HD2	ARG	X	161	32.965	62.376	54.542	0.00	0.00
ATOM	2484	HD3	ARG	X	161	33.862	62.449	53.011	0.00	0.00
ATOM	2485	NE	ARG	X	161	34.924	61.629	54.663	0.00	0.00
ATOM	2486	HE	ARG	X	161	35.389	61.949	55.501	0.00	0.00
ATOM	2487	CZ	ARG	X	161	34.977	60.319	54.386	0.00	0.00
ATOM	2488	NH1	ARG	X	161	34.662	59.766	53.169	0.00	0.00
ATOM	2489	HH11	ARG	X	161	34.268	60.333	52.433	0.00	0.00
ATOM	2490	HH12	ARG	X	161	34.686	58.761	53.067	0.00	0.00
ATOM	2491	NH2	ARG	X	161	35.301	59.414	55.374	0.00	0.00
ATOM	2492	HH21	ARG	X	161	35.674	59.713	56.263	0.00	0.00
ATOM	2493	HH22	ARG	X	161	35.212	58.440	55.118	0.00	0.00
ATOM	2494	C	ARG	X	161	37.791	64.678	52.936	0.00	0.00
ATOM	2495	O	ARG	X	161	37.608	64.516	51.748	0.00	0.00
ATOM	2496	N	GLU	X	162	38.889	65.281	53.423	0.00	0.00
ATOM	2497	H	GLU	X	162	38.918	65.263	54.432	0.00	0.00
ATOM	2498	CA	GLU	X	162	39.970	65.958	52.650	0.00	0.00
ATOM	2499	HA	GLU	X	162	39.456	66.445	51.821	0.00	0.00
ATOM	2500	CB	GLU	X	162	40.624	67.040	53.606	0.00	0.00
ATOM	2501	HB2	GLU	X	162	40.983	66.604	54.538	0.00	0.00
ATOM	2502	HB3	GLU	X	162	41.479	67.367	53.015	0.00	0.00
ATOM	2503	CG	GLU	X	162	39.939	68.319	53.987	0.00	0.00
ATOM	2504	HG2	GLU	X	162	39.000	68.090	54.492	0.00	0.00

ATOM	2505	HG3	GLU	X	162	40.621	68.824	54.672	0.00	0.00
ATOM	2506	CD	GLU	X	162	39.692	69.118	52.682	0.00	0.00
ATOM	2507	OE1	GLU	X	162	40.633	69.775	52.235	0.00	0.00
ATOM	2508	OE2	GLU	X	162	38.531	69.130	52.174	0.00	0.00
ATOM	2509	C	GLU	X	162	41.039	65.017	52.106	0.00	0.00
ATOM	2510	O	GLU	X	162	41.697	65.293	51.093	0.00	0.00
ATOM	2511	N	ALA	X	163	41.187	63.838	52.773	0.00	0.00
ATOM	2512	H	ALA	X	163	40.634	63.751	53.613	0.00	0.00
ATOM	2513	CA	ALA	X	163	41.764	62.611	52.132	0.00	0.00
ATOM	2514	HA	ALA	X	163	41.396	62.595	51.107	0.00	0.00
ATOM	2515	CB	ALA	X	163	43.306	62.712	51.951	0.00	0.00
ATOM	2516	HB1	ALA	X	163	43.751	61.894	51.384	0.00	0.00
ATOM	2517	HB2	ALA	X	163	43.760	62.822	52.936	0.00	0.00
ATOM	2518	HB3	ALA	X	163	43.584	63.542	51.301	0.00	0.00
ATOM	2519	C	ALA	X	163	41.324	61.408	52.898	0.00	0.00
ATOM	2520	O	ALA	X	163	41.953	61.042	53.880	0.00	0.00
ATOM	2521	N	PRO	X	164	40.207	60.760	52.539	0.00	0.00
ATOM	2522	CD	PRO	X	164	39.274	61.004	51.465	0.00	0.00
ATOM	2523	HD2	PRO	X	164	39.488	60.336	50.631	0.00	0.00
ATOM	2524	HD3	PRO	X	164	39.406	62.045	51.172	0.00	0.00
ATOM	2525	CG	PRO	X	164	37.924	60.641	51.987	0.00	0.00
ATOM	2526	HG2	PRO	X	164	37.132	60.476	51.256	0.00	0.00
ATOM	2527	HG3	PRO	X	164	37.639	61.303	52.805	0.00	0.00
ATOM	2528	CB	PRO	X	164	38.278	59.315	52.668	0.00	0.00
ATOM	2529	HB2	PRO	X	164	38.460	58.542	51.921	0.00	0.00
ATOM	2530	HB3	PRO	X	164	37.457	58.955	53.288	0.00	0.00
ATOM	2531	CA	PRO	X	164	39.642	59.659	53.306	0.00	0.00
ATOM	2532	HA	PRO	X	164	39.531	60.198	54.247	0.00	0.00
ATOM	2533	C	PRO	X	164	40.466	58.340	53.477	0.00	0.00
ATOM	2534	O	PRO	X	164	39.870	57.479	54.118	0.00	0.00
ATOM	2535	N	GLY	X	165	41.660	58.209	52.865	0.00	0.00
ATOM	2536	H	GLY	X	165	42.059	58.968	52.332	0.00	0.00
ATOM	2537	CA	GLY	X	165	42.340	56.936	52.664	0.00	0.00
ATOM	2538	HA2	GLY	X	165	43.373	57.279	52.618	0.00	0.00
ATOM	2539	HA3	GLY	X	165	42.241	56.215	53.475	0.00	0.00
ATOM	2540	C	GLY	X	165	41.952	56.260	51.352	0.00	0.00
ATOM	2541	O	GLY	X	165	42.528	56.582	50.298	0.00	0.00
ATOM	2542	N	ASN	X	166	40.970	55.314	51.302	0.00	0.00
ATOM	2543	H	ASN	X	166	40.289	55.445	52.037	0.00	0.00
ATOM	2544	CA	ASN	X	166	40.955	54.148	50.332	0.00	0.00
ATOM	2545	HA	ASN	X	166	41.999	53.901	50.136	0.00	0.00
ATOM	2546	CB	ASN	X	166	40.203	52.956	50.973	0.00	0.00
ATOM	2547	HB2	ASN	X	166	39.147	53.218	51.041	0.00	0.00
ATOM	2548	HB3	ASN	X	166	40.268	52.092	50.311	0.00	0.00
ATOM	2549	CG	ASN	X	166	40.946	52.571	52.223	0.00	0.00
ATOM	2550	OD1	ASN	X	166	42.005	51.968	52.122	0.00	0.00
ATOM	2551	ND2	ASN	X	166	40.375	52.781	53.398	0.00	0.00
ATOM	2552	HD21	ASN	X	166	40.821	52.488	54.255	0.00	0.00
ATOM	2553	HD22	ASN	X	166	39.499	53.271	53.514	0.00	0.00
ATOM	2554	C	ASN	X	166	40.396	54.521	48.946	0.00	0.00
ATOM	2555	O	ASN	X	166	39.706	53.705	48.361	0.00	0.00
ATOM	2556	N	VAL	X	167	40.743	55.677	48.348	0.00	0.00
ATOM	2557	H	VAL	X	167	41.542	56.048	48.842	0.00	0.00
ATOM	2558	CA	VAL	X	167	40.128	56.193	47.182	0.00	0.00
ATOM	2559	HA	VAL	X	167	39.062	55.982	47.263	0.00	0.00
ATOM	2560	CB	VAL	X	167	40.251	57.735	46.986	0.00	0.00
ATOM	2561	HB	VAL	X	167	39.542	58.064	46.226	0.00	0.00
ATOM	2562	CG1	VAL	X	167	39.585	58.233	48.258	0.00	0.00
ATOM	2563	HG11	VAL	X	167	38.566	57.854	48.337	0.00	0.00
ATOM	2564	HG12	VAL	X	167	40.166	58.015	49.155	0.00	0.00
ATOM	2565	HG13	VAL	X	167	39.480	59.317	48.210	0.00	0.00
ATOM	2566	CG2	VAL	X	167	41.631	58.427	46.823	0.00	0.00
ATOM	2567	HG21	VAL	X	167	41.460	59.501	46.745	0.00	0.00
ATOM	2568	HG22	VAL	X	167	42.090	58.098	45.892	0.00	0.00
ATOM	2569	HG23	VAL	X	167	42.261	58.214	47.687	0.00	0.00
ATOM	2570	C	VAL	X	167	40.446	55.441	45.888	0.00	0.00
ATOM	2571	O	VAL	X	167	39.545	55.268	45.130	0.00	0.00

ATOM	2572	N	GLY	X	168	41.625	54.764	45.792	0.00	0.00
ATOM	2573	H	GLY	X	168	42.353	55.014	46.446	0.00	0.00
ATOM	2574	CA	GLY	X	168	42.043	53.748	44.813	0.00	0.00
ATOM	2575	HA2	GLY	X	168	42.157	54.148	43.806	0.00	0.00
ATOM	2576	HA3	GLY	X	168	43.055	53.440	45.077	0.00	0.00
ATOM	2577	C	GLY	X	168	41.222	52.475	44.695	0.00	0.00
ATOM	2578	O	GLY	X	168	41.052	51.900	43.557	0.00	0.00
ATOM	2579	N	LEU	X	169	40.560	52.058	45.776	0.00	0.00
ATOM	2580	H	LEU	X	169	40.608	52.582	46.638	0.00	0.00
ATOM	2581	CA	LEU	X	169	39.530	50.991	45.773	0.00	0.00
ATOM	2582	HA	LEU	X	169	39.770	50.288	44.975	0.00	0.00
ATOM	2583	CB	LEU	X	169	39.457	50.161	47.084	0.00	0.00
ATOM	2584	HB2	LEU	X	169	39.026	50.777	47.874	0.00	0.00
ATOM	2585	HB3	LEU	X	169	38.756	49.342	46.925	0.00	0.00
ATOM	2586	CG	LEU	X	169	40.855	49.646	47.541	0.00	0.00
ATOM	2587	HG	LEU	X	169	41.440	50.496	47.893	0.00	0.00
ATOM	2588	CD1	LEU	X	169	40.562	48.692	48.686	0.00	0.00
ATOM	2589	HD11	LEU	X	169	40.198	49.143	49.609	0.00	0.00
ATOM	2590	HD12	LEU	X	169	41.491	48.144	48.844	0.00	0.00
ATOM	2591	HD13	LEU	X	169	39.824	47.976	48.325	0.00	0.00
ATOM	2592	CD2	LEU	X	169	41.723	48.891	46.527	0.00	0.00
ATOM	2593	HD21	LEU	X	169	41.169	48.022	46.173	0.00	0.00
ATOM	2594	HD22	LEU	X	169	41.953	49.610	45.740	0.00	0.00
ATOM	2595	HD23	LEU	X	169	42.662	48.600	46.998	0.00	0.00
ATOM	2596	C	LEU	X	169	38.106	51.484	45.302	0.00	0.00
ATOM	2597	O	LEU	X	169	37.319	50.706	44.764	0.00	0.00
ATOM	2598	N	LEU	X	170	37.861	52.778	45.548	0.00	0.00
ATOM	2599	H	LEU	X	170	38.532	53.214	46.165	0.00	0.00
ATOM	2600	CA	LEU	X	170	36.669	53.426	45.071	0.00	0.00
ATOM	2601	HA	LEU	X	170	35.817	52.748	45.095	0.00	0.00
ATOM	2602	CB	LEU	X	170	36.362	54.680	45.967	0.00	0.00
ATOM	2603	HB2	LEU	X	170	37.219	55.342	46.089	0.00	0.00
ATOM	2604	HB3	LEU	X	170	35.655	55.288	45.401	0.00	0.00
ATOM	2605	CG	LEU	X	170	35.909	54.280	47.396	0.00	0.00
ATOM	2606	HG	LEU	X	170	36.542	53.484	47.788	0.00	0.00
ATOM	2607	CD1	LEU	X	170	36.020	55.406	48.400	0.00	0.00
ATOM	2608	HD11	LEU	X	170	35.862	54.964	49.384	0.00	0.00
ATOM	2609	HD12	LEU	X	170	35.181	56.078	48.221	0.00	0.00
ATOM	2610	HD13	LEU	X	170	36.995	55.888	48.327	0.00	0.00
ATOM	2611	CD2	LEU	X	170	34.507	53.681	47.488	0.00	0.00
ATOM	2612	HD21	LEU	X	170	34.350	52.749	46.945	0.00	0.00
ATOM	2613	HD22	LEU	X	170	34.391	53.488	48.554	0.00	0.00
ATOM	2614	HD23	LEU	X	170	33.822	54.458	47.146	0.00	0.00
ATOM	2615	C	LEU	X	170	36.819	53.887	43.626	0.00	0.00
ATOM	2616	O	LEU	X	170	35.767	53.896	42.958	0.00	0.00
ATOM	2617	N	ASP	X	171	38.026	53.916	43.106	0.00	0.00
ATOM	2618	H	ASP	X	171	38.784	54.124	43.740	0.00	0.00
ATOM	2619	CA	ASP	X	171	38.215	53.966	41.656	0.00	0.00
ATOM	2620	HA	ASP	X	171	37.718	54.828	41.211	0.00	0.00
ATOM	2621	CB	ASP	X	171	39.740	54.059	41.320	0.00	0.00
ATOM	2622	HB2	ASP	X	171	40.310	53.161	41.560	0.00	0.00
ATOM	2623	HB3	ASP	X	171	39.751	54.007	40.231	0.00	0.00
ATOM	2624	CG	ASP	X	171	40.482	55.308	41.793	0.00	0.00
ATOM	2625	OD1	ASP	X	171	39.731	56.197	42.368	0.00	0.00
ATOM	2626	OD2	ASP	X	171	41.759	55.455	41.677	0.00	0.00
ATOM	2627	C	ASP	X	171	37.693	52.664	41.023	0.00	0.00
ATOM	2628	O	ASP	X	171	37.063	52.600	39.974	0.00	0.00
ATOM	2629	N	GLN	X	172	38.096	51.591	41.611	0.00	0.00
ATOM	2630	H	GLN	X	172	38.660	51.668	42.445	0.00	0.00
ATOM	2631	CA	GLN	X	172	37.877	50.195	41.167	0.00	0.00
ATOM	2632	HA	GLN	X	172	38.057	50.061	40.100	0.00	0.00
ATOM	2633	CB	GLN	X	172	38.719	49.199	41.993	0.00	0.00
ATOM	2634	HB2	GLN	X	172	38.414	49.256	43.038	0.00	0.00
ATOM	2635	HB3	GLN	X	172	38.407	48.211	41.652	0.00	0.00
ATOM	2636	CG	GLN	X	172	40.283	49.207	41.857	0.00	0.00
ATOM	2637	HG2	GLN	X	172	40.512	48.785	40.879	0.00	0.00
ATOM	2638	HG3	GLN	X	172	40.625	50.241	41.908	0.00	0.00

ATOM	2639	CD	GLN	X	172	40.876	48.416	43.031	0.00	0.00
ATOM	2640	OE1	GLN	X	172	40.119	47.765	43.758	0.00	0.00
ATOM	2641	NE2	GLN	X	172	42.138	48.384	43.280	0.00	0.00
ATOM	2642	HE21	GLN	X	172	42.483	47.704	43.943	0.00	0.00
ATOM	2643	HE22	GLN	X	172	42.752	48.882	42.652	0.00	0.00
ATOM	2644	C	GLN	X	172	36.385	49.807	41.311	0.00	0.00
ATOM	2645	O	GLN	X	172	35.788	49.145	40.506	0.00	0.00
ATOM	2646	N	ARG	X	173	35.749	50.273	42.393	0.00	0.00
ATOM	2647	H	ARG	X	173	36.236	50.905	43.012	0.00	0.00
ATOM	2648	CA	ARG	X	173	34.297	50.219	42.567	0.00	0.00
ATOM	2649	HA	ARG	X	173	33.965	49.203	42.353	0.00	0.00
ATOM	2650	CB	ARG	X	173	33.873	50.511	44.018	0.00	0.00
ATOM	2651	HB2	ARG	X	173	34.459	49.863	44.670	0.00	0.00
ATOM	2652	HB3	ARG	X	173	34.180	51.520	44.293	0.00	0.00
ATOM	2653	CG	ARG	X	173	32.337	50.267	44.369	0.00	0.00
ATOM	2654	HG2	ARG	X	173	31.802	50.943	43.702	0.00	0.00
ATOM	2655	HG3	ARG	X	173	32.048	49.217	44.315	0.00	0.00
ATOM	2656	CD	ARG	X	173	31.988	50.738	45.781	0.00	0.00
ATOM	2657	HD2	ARG	X	173	32.290	51.774	45.933	0.00	0.00
ATOM	2658	HD3	ARG	X	173	30.910	50.729	45.944	0.00	0.00
ATOM	2659	NE	ARG	X	173	32.589	49.846	46.818	0.00	0.00
ATOM	2660	HE	ARG	X	173	32.895	48.948	46.471	0.00	0.00
ATOM	2661	CZ	ARG	X	173	32.599	50.092	48.111	0.00	0.00
ATOM	2662	NH1	ARG	X	173	32.262	51.235	48.716	0.00	0.00
ATOM	2663	HH11	ARG	X	173	31.886	51.996	48.167	0.00	0.00
ATOM	2664	HH12	ARG	X	173	32.539	51.378	49.677	0.00	0.00
ATOM	2665	NH2	ARG	X	173	33.252	49.189	48.798	0.00	0.00
ATOM	2666	HH21	ARG	X	173	33.689	48.401	48.342	0.00	0.00
ATOM	2667	HH22	ARG	X	173	33.331	49.208	49.804	0.00	0.00
ATOM	2668	C	ARG	X	173	33.576	51.042	41.498	0.00	0.00
ATOM	2669	O	ARG	X	173	32.624	50.587	40.898	0.00	0.00
ATOM	2670	N	LEU	X	174	33.930	52.328	41.304	0.00	0.00
ATOM	2671	H	LEU	X	174	34.696	52.736	41.820	0.00	0.00
ATOM	2672	CA	LEU	X	174	33.466	53.135	40.199	0.00	0.00
ATOM	2673	HA	LEU	X	174	32.413	53.376	40.346	0.00	0.00
ATOM	2674	CB	LEU	X	174	34.205	54.495	40.227	0.00	0.00
ATOM	2675	HB2	LEU	X	174	33.923	54.906	41.197	0.00	0.00
ATOM	2676	HB3	LEU	X	174	35.289	54.399	40.153	0.00	0.00
ATOM	2677	CG	LEU	X	174	33.596	55.432	39.142	0.00	0.00
ATOM	2678	HG	LEU	X	174	33.965	55.051	38.189	0.00	0.00
ATOM	2679	CD1	LEU	X	174	32.091	55.631	39.264	0.00	0.00
ATOM	2680	HD11	LEU	X	174	31.568	54.723	38.965	0.00	0.00
ATOM	2681	HD12	LEU	X	174	31.644	56.392	38.624	0.00	0.00
ATOM	2682	HD13	LEU	X	174	31.803	55.894	40.282	0.00	0.00
ATOM	2683	CD2	LEU	X	174	34.082	56.845	39.056	0.00	0.00
ATOM	2684	HD21	LEU	X	174	33.940	57.238	38.049	0.00	0.00
ATOM	2685	HD22	LEU	X	174	33.459	57.461	39.704	0.00	0.00
ATOM	2686	HD23	LEU	X	174	35.123	56.928	39.367	0.00	0.00
ATOM	2687	C	LEU	X	174	33.594	52.464	38.818	0.00	0.00
ATOM	2688	O	LEU	X	174	32.608	52.416	38.086	0.00	0.00
ATOM	2689	N	ALA	X	175	34.731	51.875	38.552	0.00	0.00
ATOM	2690	H	ALA	X	175	35.557	52.224	39.016	0.00	0.00
ATOM	2691	CA	ALA	X	175	34.995	51.036	37.315	0.00	0.00
ATOM	2692	HA	ALA	X	175	34.772	51.589	36.403	0.00	0.00
ATOM	2693	CB	ALA	X	175	36.391	50.471	37.234	0.00	0.00
ATOM	2694	HB1	ALA	X	175	36.487	49.781	36.396	0.00	0.00
ATOM	2695	HB2	ALA	X	175	36.608	50.042	38.212	0.00	0.00
ATOM	2696	HB3	ALA	X	175	37.092	51.278	37.021	0.00	0.00
ATOM	2697	C	ALA	X	175	33.925	49.909	37.238	0.00	0.00
ATOM	2698	O	ALA	X	175	33.221	49.815	36.287	0.00	0.00
ATOM	2699	N	LEU	X	176	33.600	49.086	38.255	0.00	0.00
ATOM	2700	H	LEU	X	176	34.153	49.070	39.099	0.00	0.00
ATOM	2701	CA	LEU	X	176	32.458	48.150	38.385	0.00	0.00
ATOM	2702	HA	LEU	X	176	32.566	47.399	37.602	0.00	0.00
ATOM	2703	CB	LEU	X	176	32.432	47.267	39.684	0.00	0.00
ATOM	2704	HB2	LEU	X	176	32.452	47.902	40.569	0.00	0.00
ATOM	2705	HB3	LEU	X	176	31.545	46.640	39.591	0.00	0.00

ATOM	2706	CG	LEU	X	176	33.654	46.373	39.765	0.00	0.00
ATOM	2707	HG	LEU	X	176	34.561	46.958	39.918	0.00	0.00
ATOM	2708	CD1	LEU	X	176	33.456	45.548	41.068	0.00	0.00
ATOM	2709	HD11	LEU	X	176	33.010	46.158	41.853	0.00	0.00
ATOM	2710	HD12	LEU	X	176	34.455	45.278	41.411	0.00	0.00
ATOM	2711	HD13	LEU	X	176	32.837	44.695	40.790	0.00	0.00
ATOM	2712	CD2	LEU	X	176	33.991	45.468	38.536	0.00	0.00
ATOM	2713	HD21	LEU	X	176	34.034	46.025	37.600	0.00	0.00
ATOM	2714	HD22	LEU	X	176	34.985	45.072	38.742	0.00	0.00
ATOM	2715	HD23	LEU	X	176	33.361	44.583	38.443	0.00	0.00
ATOM	2716	C	LEU	X	176	31.113	48.849	38.164	0.00	0.00
ATOM	2717	O	LEU	X	176	30.234	48.268	37.536	0.00	0.00
ATOM	2718	N	GLN	X	177	30.858	50.057	38.654	0.00	0.00
ATOM	2719	H	GLN	X	177	31.591	50.595	39.094	0.00	0.00
ATOM	2720	CA	GLN	X	177	29.579	50.754	38.339	0.00	0.00
ATOM	2721	HA	GLN	X	177	28.702	50.147	38.565	0.00	0.00
ATOM	2722	CB	GLN	X	177	29.427	51.983	39.254	0.00	0.00
ATOM	2723	HB2	GLN	X	177	30.323	52.601	39.212	0.00	0.00
ATOM	2724	HB3	GLN	X	177	28.640	52.688	38.984	0.00	0.00
ATOM	2725	CG	GLN	X	177	29.160	51.573	40.698	0.00	0.00
ATOM	2726	HG2	GLN	X	177	28.308	50.901	40.807	0.00	0.00
ATOM	2727	HG3	GLN	X	177	30.075	51.108	41.064	0.00	0.00
ATOM	2728	CD	GLN	X	177	28.892	52.741	41.616	0.00	0.00
ATOM	2729	OE1	GLN	X	177	29.460	53.821	41.474	0.00	0.00
ATOM	2730	NE2	GLN	X	177	28.196	52.535	42.713	0.00	0.00
ATOM	2731	HE21	GLN	X	177	27.818	53.306	43.246	0.00	0.00
ATOM	2732	HE22	GLN	X	177	28.140	51.680	43.247	0.00	0.00
ATOM	2733	C	GLN	X	177	29.553	51.076	36.865	0.00	0.00
ATOM	2734	O	GLN	X	177	28.495	51.069	36.285	0.00	0.00
ATOM	2735	N	TRP	X	178	30.706	51.336	36.258	0.00	0.00
ATOM	2736	H	TRP	X	178	31.488	51.451	36.886	0.00	0.00
ATOM	2737	CA	TRP	X	178	30.852	51.614	34.820	0.00	0.00
ATOM	2738	HA	TRP	X	178	29.966	52.192	34.558	0.00	0.00
ATOM	2739	CB	TRP	X	178	32.106	52.425	34.480	0.00	0.00
ATOM	2740	HB2	TRP	X	178	32.095	53.113	35.325	0.00	0.00
ATOM	2741	HB3	TRP	X	178	33.036	51.858	34.524	0.00	0.00
ATOM	2742	CG	TRP	X	178	32.002	53.177	33.248	0.00	0.00
ATOM	2743	CD1	TRP	X	178	31.783	54.534	33.100	0.00	0.00
ATOM	2744	HD1	TRP	X	178	31.842	55.264	33.894	0.00	0.00
ATOM	2745	NE1	TRP	X	178	31.858	54.816	31.750	0.00	0.00
ATOM	2746	HE1	TRP	X	178	31.836	55.753	31.372	0.00	0.00
ATOM	2747	CE2	TRP	X	178	31.953	53.742	30.928	0.00	0.00
ATOM	2748	CZ2	TRP	X	178	32.135	53.486	29.502	0.00	0.00
ATOM	2749	HZ2	TRP	X	178	32.021	54.257	28.755	0.00	0.00
ATOM	2750	CH2	TRP	X	178	32.426	52.181	29.031	0.00	0.00
ATOM	2751	HH2	TRP	X	178	32.410	52.076	27.956	0.00	0.00
ATOM	2752	CZ3	TRP	X	178	32.556	51.142	29.902	0.00	0.00
ATOM	2753	HZ3	TRP	X	178	32.745	50.131	29.571	0.00	0.00
ATOM	2754	CE3	TRP	X	178	32.472	51.351	31.287	0.00	0.00
ATOM	2755	HE3	TRP	X	178	32.565	50.499	31.943	0.00	0.00
ATOM	2756	CD2	TRP	X	178	32.170	52.672	31.836	0.00	0.00
ATOM	2757	C	TRP	X	178	30.736	50.313	34.074	0.00	0.00
ATOM	2758	O	TRP	X	178	30.030	50.320	33.086	0.00	0.00
ATOM	2759	N	VAL	X	179	31.259	49.210	34.523	0.00	0.00
ATOM	2760	H	VAL	X	179	31.852	49.391	35.320	0.00	0.00
ATOM	2761	CA	VAL	X	179	30.989	47.864	33.956	0.00	0.00
ATOM	2762	HA	VAL	X	179	31.375	47.910	32.938	0.00	0.00
ATOM	2763	CB	VAL	X	179	31.709	46.706	34.675	0.00	0.00
ATOM	2764	HB	VAL	X	179	31.513	46.885	35.733	0.00	0.00
ATOM	2765	CG1	VAL	X	179	31.232	45.329	34.348	0.00	0.00
ATOM	2766	HG11	VAL	X	179	30.158	45.178	34.454	0.00	0.00
ATOM	2767	HG12	VAL	X	179	31.642	45.025	33.385	0.00	0.00
ATOM	2768	HG13	VAL	X	179	31.643	44.581	35.026	0.00	0.00
ATOM	2769	CG2	VAL	X	179	33.323	46.838	34.629	0.00	0.00
ATOM	2770	HG21	VAL	X	179	33.698	46.946	33.612	0.00	0.00
ATOM	2771	HG22	VAL	X	179	33.758	45.987	35.153	0.00	0.00
ATOM	2772	HG23	VAL	X	179	33.628	47.765	35.115	0.00	0.00

ATOM	2773	C	VAL	X	179	29.475	47.542	33.820	0.00	0.00
ATOM	2774	O	VAL	X	179	28.951	47.215	32.792	0.00	0.00
ATOM	2775	N	GLN	X	180	28.769	47.537	34.909	0.00	0.00
ATOM	2776	H	GLN	X	180	29.298	47.887	35.695	0.00	0.00
ATOM	2777	CA	GLN	X	180	27.328	47.091	35.015	0.00	0.00
ATOM	2778	HA	GLN	X	180	27.317	46.061	34.660	0.00	0.00
ATOM	2779	CB	GLN	X	180	26.911	47.259	36.438	0.00	0.00
ATOM	2780	HB2	GLN	X	180	27.364	48.123	36.924	0.00	0.00
ATOM	2781	HB3	GLN	X	180	25.844	47.457	36.548	0.00	0.00
ATOM	2782	CG	GLN	X	180	27.171	45.998	37.371	0.00	0.00
ATOM	2783	HG2	GLN	X	180	28.255	45.886	37.350	0.00	0.00
ATOM	2784	HG3	GLN	X	180	26.980	46.153	38.433	0.00	0.00
ATOM	2785	CD	GLN	X	180	26.505	44.726	36.874	0.00	0.00
ATOM	2786	OE1	GLN	X	180	25.713	44.734	35.998	0.00	0.00
ATOM	2787	NE2	GLN	X	180	26.750	43.519	37.322	0.00	0.00
ATOM	2788	HE21	GLN	X	180	26.281	42.709	36.941	0.00	0.00
ATOM	2789	HE22	GLN	X	180	27.500	43.376	37.983	0.00	0.00
ATOM	2790	C	GLN	X	180	26.430	47.778	34.050	0.00	0.00
ATOM	2791	O	GLN	X	180	25.547	47.180	33.459	0.00	0.00
ATOM	2792	N	GLU	X	181	26.627	49.083	33.921	0.00	0.00
ATOM	2793	H	GLU	X	181	27.332	49.454	34.541	0.00	0.00
ATOM	2794	CA	GLU	X	181	25.815	49.899	33.021	0.00	0.00
ATOM	2795	HA	GLU	X	181	24.812	49.487	33.130	0.00	0.00
ATOM	2796	CB	GLU	X	181	25.949	51.369	33.312	0.00	0.00
ATOM	2797	HB2	GLU	X	181	26.996	51.665	33.241	0.00	0.00
ATOM	2798	HB3	GLU	X	181	25.446	52.013	32.591	0.00	0.00
ATOM	2799	CG	GLU	X	181	25.549	51.876	34.697	0.00	0.00
ATOM	2800	HG2	GLU	X	181	24.501	51.597	34.805	0.00	0.00
ATOM	2801	HG3	GLU	X	181	26.117	51.298	35.426	0.00	0.00
ATOM	2802	CD	GLU	X	181	25.628	53.366	34.843	0.00	0.00
ATOM	2803	OE1	GLU	X	181	26.677	53.970	35.031	0.00	0.00
ATOM	2804	OE2	GLU	X	181	24.522	53.877	35.080	0.00	0.00
ATOM	2805	C	GLU	X	181	26.135	49.630	31.579	0.00	0.00
ATOM	2806	O	GLU	X	181	25.200	49.636	30.762	0.00	0.00
ATOM	2807	N	ASN	X	182	27.406	49.323	31.186	0.00	0.00
ATOM	2808	H	ASN	X	182	28.048	49.147	31.946	0.00	0.00
ATOM	2809	CA	ASN	X	182	27.795	49.296	29.777	0.00	0.00
ATOM	2810	HA	ASN	X	182	26.888	49.421	29.186	0.00	0.00
ATOM	2811	CB	ASN	X	182	28.570	50.579	29.496	0.00	0.00
ATOM	2812	HB2	ASN	X	182	29.629	50.531	29.753	0.00	0.00
ATOM	2813	HB3	ASN	X	182	28.701	50.675	28.418	0.00	0.00
ATOM	2814	CG	ASN	X	182	28.083	51.883	30.067	0.00	0.00
ATOM	2815	OD1	ASN	X	182	27.176	52.484	29.546	0.00	0.00
ATOM	2816	ND2	ASN	X	182	28.499	52.368	31.250	0.00	0.00
ATOM	2817	HD21	ASN	X	182	28.094	53.141	31.759	0.00	0.00
ATOM	2818	HD22	ASN	X	182	29.204	51.943	31.836	0.00	0.00
ATOM	2819	C	ASN	X	182	28.607	48.069	29.263	0.00	0.00
ATOM	2820	O	ASN	X	182	29.040	48.112	28.103	0.00	0.00
ATOM	2821	N	VAL	X	183	28.830	47.007	30.005	0.00	0.00
ATOM	2822	H	VAL	X	183	28.662	47.020	31.001	0.00	0.00
ATOM	2823	CA	VAL	X	183	29.557	45.818	29.488	0.00	0.00
ATOM	2824	HA	VAL	X	183	30.340	46.182	28.823	0.00	0.00
ATOM	2825	CB	VAL	X	183	30.276	45.070	30.586	0.00	0.00
ATOM	2826	HB	VAL	X	183	30.666	45.881	31.201	0.00	0.00
ATOM	2827	CG1	VAL	X	183	29.385	44.107	31.364	0.00	0.00
ATOM	2828	HG11	VAL	X	183	28.592	44.697	31.824	0.00	0.00
ATOM	2829	HG12	VAL	X	183	28.915	43.367	30.718	0.00	0.00
ATOM	2830	HG13	VAL	X	183	29.964	43.622	32.150	0.00	0.00
ATOM	2831	CG2	VAL	X	183	31.461	44.287	30.045	0.00	0.00
ATOM	2832	HG21	VAL	X	183	32.182	45.059	29.779	0.00	0.00
ATOM	2833	HG22	VAL	X	183	31.162	43.728	29.158	0.00	0.00
ATOM	2834	HG23	VAL	X	183	31.861	43.545	30.736	0.00	0.00
ATOM	2835	C	VAL	X	183	28.782	44.963	28.560	0.00	0.00
ATOM	2836	O	VAL	X	183	29.391	44.479	27.615	0.00	0.00
ATOM	2837	N	ALA	X	184	27.449	44.834	28.756	0.00	0.00
ATOM	2838	H	ALA	X	184	27.142	45.253	29.621	0.00	0.00
ATOM	2839	CA	ALA	X	184	26.486	44.258	27.803	0.00	0.00

ATOM	2840	HA	ALA	X	184	26.797	43.214	27.755	0.00	0.00
ATOM	2841	CB	ALA	X	184	25.025	44.288	28.419	0.00	0.00
ATOM	2842	HB1	ALA	X	184	24.303	43.677	27.877	0.00	0.00
ATOM	2843	HB2	ALA	X	184	24.601	45.293	28.409	0.00	0.00
ATOM	2844	HB3	ALA	X	184	24.984	44.062	29.485	0.00	0.00
ATOM	2845	C	ALA	X	184	26.485	44.851	26.415	0.00	0.00
ATOM	2846	O	ALA	X	184	26.331	44.181	25.363	0.00	0.00
ATOM	2847	N	ALA	X	185	26.713	46.151	26.344	0.00	0.00
ATOM	2848	H	ALA	X	185	26.958	46.586	27.222	0.00	0.00
ATOM	2849	CA	ALA	X	185	26.990	46.815	25.040	0.00	0.00
ATOM	2850	HA	ALA	X	185	26.071	46.782	24.455	0.00	0.00
ATOM	2851	CB	ALA	X	185	27.355	48.278	25.277	0.00	0.00
ATOM	2852	HB1	ALA	X	185	28.348	48.430	25.699	0.00	0.00
ATOM	2853	HB2	ALA	X	185	26.663	48.753	25.973	0.00	0.00
ATOM	2854	HB3	ALA	X	185	27.326	48.786	24.313	0.00	0.00
ATOM	2855	C	ALA	X	185	28.033	46.188	24.110	0.00	0.00
ATOM	2856	O	ALA	X	185	27.872	46.262	22.900	0.00	0.00
ATOM	2857	N	PHE	X	186	29.073	45.667	24.761	0.00	0.00
ATOM	2858	H	PHE	X	186	29.005	45.806	25.759	0.00	0.00
ATOM	2859	CA	PHE	X	186	30.226	44.955	24.149	0.00	0.00
ATOM	2860	HA	PHE	X	186	30.243	45.359	23.137	0.00	0.00
ATOM	2861	CB	PHE	X	186	31.587	45.281	24.808	0.00	0.00
ATOM	2862	HB2	PHE	X	186	31.617	44.899	25.829	0.00	0.00
ATOM	2863	HB3	PHE	X	186	32.425	44.785	24.317	0.00	0.00
ATOM	2864	CG	PHE	X	186	31.950	46.702	25.097	0.00	0.00
ATOM	2865	CD1	PHE	X	186	31.962	47.182	26.411	0.00	0.00
ATOM	2866	HD1	PHE	X	186	31.632	46.603	27.260	0.00	0.00
ATOM	2867	CE1	PHE	X	186	32.234	48.582	26.675	0.00	0.00
ATOM	2868	HE1	PHE	X	186	32.196	48.924	27.699	0.00	0.00
ATOM	2869	CZ	PHE	X	186	32.760	49.409	25.706	0.00	0.00
ATOM	2870	HZ	PHE	X	186	32.982	50.425	25.999	0.00	0.00
ATOM	2871	CE2	PHE	X	186	32.902	48.891	24.418	0.00	0.00
ATOM	2872	HE2	PHE	X	186	33.469	49.434	23.676	0.00	0.00
ATOM	2873	CD2	PHE	X	186	32.452	47.565	24.070	0.00	0.00
ATOM	2874	HD2	PHE	X	186	32.455	47.294	23.025	0.00	0.00
ATOM	2875	C	PHE	X	186	30.011	43.444	23.914	0.00	0.00
ATOM	2876	O	PHE	X	186	30.937	42.714	23.499	0.00	0.00
ATOM	2877	N	GLY	X	187	28.827	42.932	24.281	0.00	0.00
ATOM	2878	H	GLY	X	187	28.191	43.619	24.658	0.00	0.00
ATOM	2879	CA	GLY	X	187	28.382	41.539	24.225	0.00	0.00
ATOM	2880	HA2	GLY	X	187	27.421	41.625	23.717	0.00	0.00
ATOM	2881	HA3	GLY	X	187	29.074	40.892	23.686	0.00	0.00
ATOM	2882	C	GLY	X	187	28.026	40.896	25.642	0.00	0.00
ATOM	2883	O	GLY	X	187	27.295	39.909	25.679	0.00	0.00
ATOM	2884	N	GLY	X	188	28.580	41.502	26.700	0.00	0.00
ATOM	2885	H	GLY	X	188	29.120	42.341	26.545	0.00	0.00
ATOM	2886	CA	GLY	X	188	28.709	40.865	28.019	0.00	0.00
ATOM	2887	HA2	GLY	X	188	29.270	39.946	27.852	0.00	0.00
ATOM	2888	HA3	GLY	X	188	29.247	41.440	28.773	0.00	0.00
ATOM	2889	C	GLY	X	188	27.365	40.495	28.665	0.00	0.00
ATOM	2890	O	GLY	X	188	26.318	40.734	28.078	0.00	0.00
ATOM	2891	N	ASP	X	189	27.390	39.998	29.897	0.00	0.00
ATOM	2892	H	ASP	X	189	28.286	39.681	30.241	0.00	0.00
ATOM	2893	CA	ASP	X	189	26.259	39.568	30.632	0.00	0.00
ATOM	2894	HA	ASP	X	189	25.295	39.696	30.139	0.00	0.00
ATOM	2895	CB	ASP	X	189	26.461	38.046	30.877	0.00	0.00
ATOM	2896	HB2	ASP	X	189	26.527	37.495	29.939	0.00	0.00
ATOM	2897	HB3	ASP	X	189	27.368	37.929	31.470	0.00	0.00
ATOM	2898	CG	ASP	X	189	25.239	37.441	31.660	0.00	0.00
ATOM	2899	OD1	ASP	X	189	24.343	38.183	32.029	0.00	0.00
ATOM	2900	OD2	ASP	X	189	25.309	36.256	32.054	0.00	0.00
ATOM	2901	C	ASP	X	189	26.267	40.372	31.927	0.00	0.00
ATOM	2902	O	ASP	X	189	27.193	40.096	32.755	0.00	0.00
ATOM	2903	N	PRO	X	190	25.361	41.294	32.174	0.00	0.00
ATOM	2904	CD	PRO	X	190	24.287	41.736	31.314	0.00	0.00
ATOM	2905	HD2	PRO	X	190	23.526	40.999	31.054	0.00	0.00
ATOM	2906	HD3	PRO	X	190	24.837	42.247	30.524	0.00	0.00

ATOM	2907	CG	PRO	X	190	23.486	42.704	32.150	0.00	0.00
ATOM	2908	HG2	PRO	X	190	22.610	42.242	32.605	0.00	0.00
ATOM	2909	HG3	PRO	X	190	23.106	43.511	31.522	0.00	0.00
ATOM	2910	CB	PRO	X	190	24.357	43.178	33.280	0.00	0.00
ATOM	2911	HB2	PRO	X	190	23.763	43.467	34.147	0.00	0.00
ATOM	2912	HB3	PRO	X	190	24.952	43.986	32.855	0.00	0.00
ATOM	2913	CA	PRO	X	190	25.294	41.991	33.449	0.00	0.00
ATOM	2914	HA	PRO	X	190	26.259	42.471	33.611	0.00	0.00
ATOM	2915	C	PRO	X	190	25.070	41.063	34.656	0.00	0.00
ATOM	2916	O	PRO	X	190	25.435	41.370	35.777	0.00	0.00
ATOM	2917	N	THR	X	191	24.442	39.898	34.469	0.00	0.00
ATOM	2918	H	THR	X	191	24.148	39.644	33.537	0.00	0.00
ATOM	2919	CA	THR	X	191	24.057	38.856	35.453	0.00	0.00
ATOM	2920	HA	THR	X	191	23.791	39.469	36.314	0.00	0.00
ATOM	2921	CB	THR	X	191	22.842	38.042	35.084	0.00	0.00
ATOM	2922	HB	THR	X	191	22.621	37.414	35.948	0.00	0.00
ATOM	2923	CG2	THR	X	191	21.547	38.883	34.590	0.00	0.00
ATOM	2924	HG21	THR	X	191	21.702	39.146	33.543	0.00	0.00
ATOM	2925	HG22	THR	X	191	21.422	39.870	35.034	0.00	0.00
ATOM	2926	HG23	THR	X	191	20.605	38.399	34.847	0.00	0.00
ATOM	2927	OG1	THR	X	191	23.095	37.179	34.035	0.00	0.00
ATOM	2928	HG1	THR	X	191	23.553	37.603	33.305	0.00	0.00
ATOM	2929	C	THR	X	191	25.215	37.876	35.751	0.00	0.00
ATOM	2930	O	THR	X	191	25.049	36.975	36.573	0.00	0.00
ATOM	2931	N	SER	X	192	26.355	38.126	35.127	0.00	0.00
ATOM	2932	H	SER	X	192	26.360	38.881	34.456	0.00	0.00
ATOM	2933	CA	SER	X	192	27.523	37.168	35.242	0.00	0.00
ATOM	2934	HA	SER	X	192	27.489	36.699	36.225	0.00	0.00
ATOM	2935	CB	SER	X	192	27.379	36.058	34.197	0.00	0.00
ATOM	2936	HB2	SER	X	192	27.703	36.364	33.202	0.00	0.00
ATOM	2937	HB3	SER	X	192	28.113	35.337	34.557	0.00	0.00
ATOM	2938	OG	SER	X	192	26.096	35.363	34.263	0.00	0.00
ATOM	2939	HG	SER	X	192	25.731	35.535	33.391	0.00	0.00
ATOM	2940	C	SER	X	192	28.914	37.874	35.102	0.00	0.00
ATOM	2941	O	SER	X	192	29.758	37.467	34.275	0.00	0.00
ATOM	2942	N	VAL	X	193	29.097	38.954	35.928	0.00	0.00
ATOM	2943	H	VAL	X	193	28.369	39.051	36.622	0.00	0.00
ATOM	2944	CA	VAL	X	193	30.431	39.552	36.253	0.00	0.00
ATOM	2945	HA	VAL	X	193	30.944	39.457	35.296	0.00	0.00
ATOM	2946	CB	VAL	X	193	30.326	41.015	36.620	0.00	0.00
ATOM	2947	HB	VAL	X	193	29.795	41.026	37.572	0.00	0.00
ATOM	2948	CG1	VAL	X	193	31.727	41.679	36.820	0.00	0.00
ATOM	2949	HG11	VAL	X	193	32.179	41.214	37.696	0.00	0.00
ATOM	2950	HG12	VAL	X	193	32.362	41.522	35.948	0.00	0.00
ATOM	2951	HG13	VAL	X	193	31.578	42.731	37.061	0.00	0.00
ATOM	2952	CG2	VAL	X	193	29.591	41.816	35.610	0.00	0.00
ATOM	2953	HG21	VAL	X	193	29.513	42.844	35.966	0.00	0.00
ATOM	2954	HG22	VAL	X	193	28.613	41.365	35.440	0.00	0.00
ATOM	2955	HG23	VAL	X	193	30.173	41.750	34.691	0.00	0.00
ATOM	2956	C	VAL	X	193	31.238	38.709	37.210	0.00	0.00
ATOM	2957	O	VAL	X	193	30.727	38.371	38.289	0.00	0.00
ATOM	2958	N	THR	X	194	32.523	38.470	36.862	0.00	0.00
ATOM	2959	H	THR	X	194	32.800	38.653	35.908	0.00	0.00
ATOM	2960	CA	THR	X	194	33.534	37.730	37.715	0.00	0.00
ATOM	2961	HA	THR	X	194	33.062	37.531	38.677	0.00	0.00
ATOM	2962	CB	THR	X	194	33.976	36.393	37.067	0.00	0.00
ATOM	2963	HB	THR	X	194	34.333	36.495	36.042	0.00	0.00
ATOM	2964	CG2	THR	X	194	35.099	35.700	37.893	0.00	0.00
ATOM	2965	HG21	THR	X	194	34.885	35.761	38.960	0.00	0.00
ATOM	2966	HG22	THR	X	194	36.043	36.202	37.681	0.00	0.00
ATOM	2967	HG23	THR	X	194	35.141	34.635	37.665	0.00	0.00
ATOM	2968	OG1	THR	X	194	32.913	35.494	36.877	0.00	0.00
ATOM	2969	HG1	THR	X	194	32.127	35.911	36.515	0.00	0.00
ATOM	2970	C	THR	X	194	34.808	38.631	37.967	0.00	0.00
ATOM	2971	O	THR	X	194	35.154	39.250	36.967	0.00	0.00
ATOM	2972	N	LEU	X	195	35.445	38.649	39.150	0.00	0.00
ATOM	2973	H	LEU	X	195	34.960	38.410	40.003	0.00	0.00

ATOM	2974	CA	LEU	X	195	36.704	39.469	39.294	0.00	0.00
ATOM	2975	HA	LEU	X	195	36.895	40.126	38.446	0.00	0.00
ATOM	2976	CB	LEU	X	195	36.659	40.277	40.628	0.00	0.00
ATOM	2977	HB2	LEU	X	195	36.788	39.549	41.429	0.00	0.00
ATOM	2978	HB3	LEU	X	195	37.497	40.935	40.855	0.00	0.00
ATOM	2979	CG	LEU	X	195	35.413	41.184	40.848	0.00	0.00
ATOM	2980	HG	LEU	X	195	34.556	40.514	40.792	0.00	0.00
ATOM	2981	CD1	LEU	X	195	35.627	41.827	42.282	0.00	0.00
ATOM	2982	HD11	LEU	X	195	35.569	41.094	43.087	0.00	0.00
ATOM	2983	HD12	LEU	X	195	34.806	42.521	42.459	0.00	0.00
ATOM	2984	HD13	LEU	X	195	36.594	42.329	42.315	0.00	0.00
ATOM	2985	CD2	LEU	X	195	35.207	42.173	39.700	0.00	0.00
ATOM	2986	HD21	LEU	X	195	35.103	41.694	38.727	0.00	0.00
ATOM	2987	HD22	LEU	X	195	34.264	42.686	39.892	0.00	0.00
ATOM	2988	HD23	LEU	X	195	35.923	42.986	39.812	0.00	0.00
ATOM	2989	C	LEU	X	195	37.879	38.479	39.330	0.00	0.00
ATOM	2990	O	LEU	X	195	37.805	37.447	39.965	0.00	0.00
ATOM	2991	N	PHE	X	196	39.042	38.945	38.874	0.00	0.00
ATOM	2992	H	PHE	X	196	39.137	39.859	38.455	0.00	0.00
ATOM	2993	CA	PHE	X	196	40.329	38.238	38.920	0.00	0.00
ATOM	2994	HA	PHE	X	196	40.369	37.762	39.900	0.00	0.00
ATOM	2995	CB	PHE	X	196	40.412	37.078	37.913	0.00	0.00
ATOM	2996	HB2	PHE	X	196	41.255	36.448	38.195	0.00	0.00
ATOM	2997	HB3	PHE	X	196	39.607	36.366	38.100	0.00	0.00
ATOM	2998	CG	PHE	X	196	40.516	37.469	36.408	0.00	0.00
ATOM	2999	CD1	PHE	X	196	39.747	38.555	35.855	0.00	0.00
ATOM	3000	HD1	PHE	X	196	38.932	39.017	36.392	0.00	0.00
ATOM	3001	CE1	PHE	X	196	40.045	39.074	34.538	0.00	0.00
ATOM	3002	HE1	PHE	X	196	39.450	39.910	34.201	0.00	0.00
ATOM	3003	CZ	PHE	X	196	41.067	38.503	33.719	0.00	0.00
ATOM	3004	HZ	PHE	X	196	41.189	38.814	32.692	0.00	0.00
ATOM	3005	CE2	PHE	X	196	41.764	37.435	34.295	0.00	0.00
ATOM	3006	HE2	PHE	X	196	42.542	36.959	33.717	0.00	0.00
ATOM	3007	CD2	PHE	X	196	41.552	36.966	35.581	0.00	0.00
ATOM	3008	HD2	PHE	X	196	42.274	36.233	35.908	0.00	0.00
ATOM	3009	C	PHE	X	196	41.393	39.267	38.839	0.00	0.00
ATOM	3010	O	PHE	X	196	41.292	40.417	38.420	0.00	0.00
ATOM	3011	N	GLY	X	197	42.511	38.856	39.481	0.00	0.00
ATOM	3012	H	GLY	X	197	42.550	37.947	39.919	0.00	0.00
ATOM	3013	CA	GLY	X	197	43.703	39.711	39.630	0.00	0.00
ATOM	3014	HA2	GLY	X	197	43.998	40.229	38.718	0.00	0.00
ATOM	3015	HA3	GLY	X	197	43.431	40.495	40.337	0.00	0.00
ATOM	3016	C	GLY	X	197	44.844	39.023	40.323	0.00	0.00
ATOM	3017	O	GLY	X	197	44.721	37.823	40.518	0.00	0.00
ATOM	3018	N	GLU	X	198	45.884	39.776	40.722	0.00	0.00
ATOM	3019	H	GLU	X	198	45.978	40.759	40.507	0.00	0.00
ATOM	3020	CA	GLU	X	198	47.018	39.232	41.522	0.00	0.00
ATOM	3021	HA	GLU	X	198	46.685	38.271	41.915	0.00	0.00
ATOM	3022	CB	GLU	X	198	48.095	38.519	40.740	0.00	0.00
ATOM	3023	HB2	GLU	X	198	48.809	38.008	41.385	0.00	0.00
ATOM	3024	HB3	GLU	X	198	47.694	37.681	40.169	0.00	0.00
ATOM	3025	CG	GLU	X	198	48.983	39.367	39.733	0.00	0.00
ATOM	3026	HG2	GLU	X	198	49.717	38.686	39.300	0.00	0.00
ATOM	3027	HG3	GLU	X	198	48.291	39.579	38.918	0.00	0.00
ATOM	3028	CD	GLU	X	198	49.589	40.564	40.345	0.00	0.00
ATOM	3029	OE1	GLU	X	198	49.638	41.575	39.580	0.00	0.00
ATOM	3030	OE2	GLU	X	198	50.193	40.527	41.383	0.00	0.00
ATOM	3031	C	GLU	X	198	47.494	40.107	42.597	0.00	0.00
ATOM	3032	O	GLU	X	198	47.225	41.312	42.584	0.00	0.00
ATOM	3033	N	XA1	X	199	48.106	39.556	43.652	0.00	0.00
ATOM	3034	CA	XA1	X	199	48.822	40.305	44.678	0.00	0.00
ATOM	3035	C	XA1	X	199	48.070	41.498	45.387	0.00	0.00
ATOM	3036	O	XA1	X	199	47.026	41.224	46.063	0.00	0.00
ATOM	3037	CB	XA1	X	199	50.218	40.846	44.213	0.00	0.00
ATOM	3038	OG	XA1	X	199	51.045	41.135	45.349	0.00	0.00
ATOM	3039	P1	XA1	X	199	51.864	42.425	45.308	0.00	0.00
ATOM	3040	OL	XA1	X	199	51.257	43.615	44.580	0.00	0.00

ATOM	3041	O2	XA1	X	199	53.174	42.033	44.696	0.00	0.00
ATOM	3042	C1	XA1	X	199	52.269	42.770	47.019	0.00	0.00
ATOM	3043	H	XA1	X	199	47.921	38.585	43.862	0.00	0.00
ATOM	3044	HA	XA1	X	199	49.013	39.511	45.401	0.00	0.00
ATOM	3045	HB2	XA1	X	199	50.834	40.087	43.723	0.00	0.00
ATOM	3046	HB3	XA1	X	199	50.182	41.761	43.616	0.00	0.00
ATOM	3047	H11	XA1	X	199	52.216	41.877	47.644	0.00	0.00
ATOM	3048	H12	XA1	X	199	53.290	43.153	47.094	0.00	0.00
ATOM	3049	H13	XA1	X	199	51.552	43.540	47.312	0.00	0.00
ATOM	3050	N	ALA	X	200	48.438	42.742	45.111	0.00	0.00
ATOM	3051	H	ALA	X	200	49.340	43.041	44.767	0.00	0.00
ATOM	3052	CA	ALA	X	200	47.610	43.854	45.627	0.00	0.00
ATOM	3053	HA	ALA	X	200	47.578	43.878	46.716	0.00	0.00
ATOM	3054	CB	ALA	X	200	48.531	45.007	45.443	0.00	0.00
ATOM	3055	HB1	ALA	X	200	48.181	45.935	45.895	0.00	0.00
ATOM	3056	HB2	ALA	X	200	48.611	45.287	44.392	0.00	0.00
ATOM	3057	HB3	ALA	X	200	49.502	44.848	45.912	0.00	0.00
ATOM	3058	C	ALA	X	200	46.206	43.948	44.953	0.00	0.00
ATOM	3059	O	ALA	X	200	45.234	44.328	45.633	0.00	0.00
ATOM	3060	N	GLY	X	201	46.051	43.464	43.708	0.00	0.00
ATOM	3061	H	GLY	X	201	46.926	43.493	43.204	0.00	0.00
ATOM	3062	CA	GLY	X	201	44.724	43.297	43.010	0.00	0.00
ATOM	3063	HA2	GLY	X	201	44.166	44.228	43.109	0.00	0.00
ATOM	3064	HA3	GLY	X	201	44.942	43.078	41.965	0.00	0.00
ATOM	3065	C	GLY	X	201	43.932	42.162	43.620	0.00	0.00
ATOM	3066	O	GLY	X	201	42.736	42.197	43.642	0.00	0.00
ATOM	3067	N	ALA	X	202	44.639	41.154	44.030	0.00	0.00
ATOM	3068	H	ALA	X	202	45.649	41.164	43.996	0.00	0.00
ATOM	3069	CA	ALA	X	202	43.963	39.977	44.623	0.00	0.00
ATOM	3070	HA	ALA	X	202	43.094	39.665	44.043	0.00	0.00
ATOM	3071	CB	ALA	X	202	44.978	38.822	44.609	0.00	0.00
ATOM	3072	HB1	ALA	X	202	44.578	37.874	44.970	0.00	0.00
ATOM	3073	HB2	ALA	X	202	45.799	39.103	45.269	0.00	0.00
ATOM	3074	HB3	ALA	X	202	45.337	38.630	43.598	0.00	0.00
ATOM	3075	C	ALA	X	202	43.382	40.338	45.986	0.00	0.00
ATOM	3076	O	ALA	X	202	42.207	40.055	46.322	0.00	0.00
ATOM	3077	N	ALA	X	203	44.217	41.003	46.781	0.00	0.00
ATOM	3078	H	ALA	X	203	45.178	41.146	46.506	0.00	0.00
ATOM	3079	CA	ALA	X	203	43.790	41.600	48.015	0.00	0.00
ATOM	3080	HA	ALA	X	203	43.452	40.841	48.720	0.00	0.00
ATOM	3081	CB	ALA	X	203	44.981	42.377	48.498	0.00	0.00
ATOM	3082	HB1	ALA	X	203	44.842	42.707	49.527	0.00	0.00
ATOM	3083	HB2	ALA	X	203	45.123	43.274	47.895	0.00	0.00
ATOM	3084	HB3	ALA	X	203	45.805	41.664	48.471	0.00	0.00
ATOM	3085	C	ALA	X	203	42.620	42.585	47.762	0.00	0.00
ATOM	3086	O	ALA	X	203	41.756	42.563	48.629	0.00	0.00
ATOM	3087	N	SER	X	204	42.600	43.335	46.593	0.00	0.00
ATOM	3088	H	SER	X	204	43.437	43.236	46.036	0.00	0.00
ATOM	3089	CA	SER	X	204	41.493	44.203	46.202	0.00	0.00
ATOM	3090	HA	SER	X	204	41.219	44.812	47.063	0.00	0.00
ATOM	3091	CB	SER	X	204	41.979	45.135	45.118	0.00	0.00
ATOM	3092	HB2	SER	X	204	42.189	44.543	44.226	0.00	0.00
ATOM	3093	HB3	SER	X	204	41.209	45.859	44.854	0.00	0.00
ATOM	3094	OG	SER	X	204	43.089	45.948	45.552	0.00	0.00
ATOM	3095	HG	SER	X	204	43.892	45.431	45.454	0.00	0.00
ATOM	3096	C	SER	X	204	40.258	43.409	45.888	0.00	0.00
ATOM	3097	O	SER	X	204	39.173	43.690	46.482	0.00	0.00
ATOM	3098	N	VAL	X	205	40.325	42.333	45.068	0.00	0.00
ATOM	3099	H	VAL	X	205	41.208	42.010	44.700	0.00	0.00
ATOM	3100	CA	VAL	X	205	39.209	41.404	44.783	0.00	0.00
ATOM	3101	HA	VAL	X	205	38.476	42.019	44.262	0.00	0.00
ATOM	3102	CB	VAL	X	205	39.638	40.203	43.911	0.00	0.00
ATOM	3103	HB	VAL	X	205	40.534	39.673	44.233	0.00	0.00
ATOM	3104	CG1	VAL	X	205	38.608	39.124	43.802	0.00	0.00
ATOM	3105	HG11	VAL	X	205	37.738	39.512	43.272	0.00	0.00
ATOM	3106	HG12	VAL	X	205	39.008	38.213	43.357	0.00	0.00
ATOM	3107	HG13	VAL	X	205	38.273	38.760	44.774	0.00	0.00

ATOM	3108	CG2	VAL	X	205	39.943	40.569	42.474	0.00	0.00
ATOM	3109	HG21	VAL	X	205	40.681	41.371	42.498	0.00	0.00
ATOM	3110	HG22	VAL	X	205	39.112	41.114	42.027	0.00	0.00
ATOM	3111	HG23	VAL	X	205	40.376	39.720	41.945	0.00	0.00
ATOM	3112	C	VAL	X	205	38.580	40.887	46.043	0.00	0.00
ATOM	3113	O	VAL	X	205	37.353	41.022	46.254	0.00	0.00
ATOM	3114	N	GLY	X	206	39.460	40.477	46.987	0.00	0.00
ATOM	3115	H	GLY	X	206	40.440	40.480	46.741	0.00	0.00
ATOM	3116	CA	GLY	X	206	39.129	40.163	48.380	0.00	0.00
ATOM	3117	HA2	GLY	X	206	38.371	39.385	48.473	0.00	0.00
ATOM	3118	HA3	GLY	X	206	39.971	39.707	48.900	0.00	0.00
ATOM	3119	C	GLY	X	206	38.483	41.340	49.187	0.00	0.00
ATOM	3120	O	GLY	X	206	37.509	41.085	49.930	0.00	0.00
ATOM	3121	N	MET	X	207	38.990	42.604	49.112	0.00	0.00
ATOM	3122	H	MET	X	207	39.792	42.694	48.505	0.00	0.00
ATOM	3123	CA	MET	X	207	38.425	43.784	49.724	0.00	0.00
ATOM	3124	HA	MET	X	207	38.121	43.539	50.742	0.00	0.00
ATOM	3125	CB	MET	X	207	39.292	45.110	49.568	0.00	0.00
ATOM	3126	HB2	MET	X	207	40.212	44.786	49.082	0.00	0.00
ATOM	3127	HB3	MET	X	207	38.841	45.757	48.816	0.00	0.00
ATOM	3128	CG	MET	X	207	39.642	45.807	50.853	0.00	0.00
ATOM	3129	HG2	MET	X	207	40.159	46.750	50.675	0.00	0.00
ATOM	3130	HG3	MET	X	207	38.714	46.080	51.355	0.00	0.00
ATOM	3131	SD	MET	X	207	40.619	44.872	52.025	0.00	0.00
ATOM	3132	CE	MET	X	207	42.288	45.077	51.191	0.00	0.00
ATOM	3133	HE1	MET	X	207	43.003	44.823	51.972	0.00	0.00
ATOM	3134	HE2	MET	X	207	42.345	44.429	50.316	0.00	0.00
ATOM	3135	HE3	MET	X	207	42.608	46.075	50.893	0.00	0.00
ATOM	3136	C	MET	X	207	36.986	43.998	49.105	0.00	0.00
ATOM	3137	O	MET	X	207	36.052	44.381	49.831	0.00	0.00
ATOM	3138	N	HIE	X	208	36.724	43.689	47.828	0.00	0.00
ATOM	3139	H	HIE	X	208	37.475	43.443	47.200	0.00	0.00
ATOM	3140	CA	HIE	X	208	35.404	43.700	47.048	0.00	0.00
ATOM	3141	HA	HIE	X	208	34.881	44.621	47.307	0.00	0.00
ATOM	3142	CB	HIE	X	208	35.545	43.781	45.513	0.00	0.00
ATOM	3143	HB2	HIE	X	208	36.091	42.894	45.192	0.00	0.00
ATOM	3144	HB3	HIE	X	208	34.516	43.765	45.153	0.00	0.00
ATOM	3145	CG	HIE	X	208	36.141	45.089	44.950	0.00	0.00
ATOM	3146	ND1	HIE	X	208	35.619	46.332	45.290	0.00	0.00
ATOM	3147	CE1	HIE	X	208	36.474	47.283	44.805	0.00	0.00
ATOM	3148	HE1	HIE	X	208	36.338	48.348	44.919	0.00	0.00
ATOM	3149	NE2	HIE	X	208	37.512	46.707	44.180	0.00	0.00
ATOM	3150	HE2	HIE	X	208	38.350	47.159	43.846	0.00	0.00
ATOM	3151	CD2	HIE	X	208	37.243	45.329	44.220	0.00	0.00
ATOM	3152	HD2	HIE	X	208	37.909	44.534	43.919	0.00	0.00
ATOM	3153	C	HIE	X	208	34.323	42.765	47.615	0.00	0.00
ATOM	3154	O	HIE	X	208	33.147	43.000	47.572	0.00	0.00
ATOM	3155	N	LEU	X	209	34.834	41.661	48.127	0.00	0.00
ATOM	3156	H	LEU	X	209	35.842	41.629	48.183	0.00	0.00
ATOM	3157	CA	LEU	X	209	34.081	40.621	48.801	0.00	0.00
ATOM	3158	HA	LEU	X	209	33.111	40.485	48.322	0.00	0.00
ATOM	3159	CB	LEU	X	209	34.832	39.326	48.566	0.00	0.00
ATOM	3160	HB2	LEU	X	209	34.957	39.164	47.495	0.00	0.00
ATOM	3161	HB3	LEU	X	209	35.790	39.356	49.084	0.00	0.00
ATOM	3162	CG	LEU	X	209	34.127	38.045	49.088	0.00	0.00
ATOM	3163	HG	LEU	X	209	33.788	38.227	50.108	0.00	0.00
ATOM	3164	CD1	LEU	X	209	32.879	37.807	48.202	0.00	0.00
ATOM	3165	HD11	LEU	X	209	32.420	36.829	48.342	0.00	0.00
ATOM	3166	HD12	LEU	X	209	33.123	37.838	47.140	0.00	0.00
ATOM	3167	HD13	LEU	X	209	32.129	38.574	48.399	0.00	0.00
ATOM	3168	CD2	LEU	X	209	35.072	36.870	49.081	0.00	0.00
ATOM	3169	HD21	LEU	X	209	35.179	36.635	48.023	0.00	0.00
ATOM	3170	HD22	LEU	X	209	36.066	37.064	49.486	0.00	0.00
ATOM	3171	HD23	LEU	X	209	34.651	36.043	49.652	0.00	0.00
ATOM	3172	C	LEU	X	209	33.858	40.934	50.305	0.00	0.00
ATOM	3173	O	LEU	X	209	33.024	40.271	50.943	0.00	0.00
ATOM	3174	N	LEU	X	210	34.643	41.827	50.902	0.00	0.00

ATOM	3175	H	LEU	X	210	35.345	42.308	50.358	0.00	0.00
ATOM	3176	CA	LEU	X	210	34.467	42.244	52.345	0.00	0.00
ATOM	3177	HA	LEU	X	210	34.068	41.379	52.874	0.00	0.00
ATOM	3178	CB	LEU	X	210	35.845	42.586	52.967	0.00	0.00
ATOM	3179	HB2	LEU	X	210	36.388	43.114	52.182	0.00	0.00
ATOM	3180	HB3	LEU	X	210	35.625	43.253	53.800	0.00	0.00
ATOM	3181	CG	LEU	X	210	36.741	41.358	53.324	0.00	0.00
ATOM	3182	HG	LEU	X	210	36.712	40.527	52.619	0.00	0.00
ATOM	3183	CD1	LEU	X	210	38.154	41.784	53.526	0.00	0.00
ATOM	3184	HD11	LEU	X	210	38.684	41.970	52.591	0.00	0.00
ATOM	3185	HD12	LEU	X	210	38.632	40.929	54.004	0.00	0.00
ATOM	3186	HD13	LEU	X	210	38.312	42.557	54.277	0.00	0.00
ATOM	3187	CD2	LEU	X	210	36.109	40.624	54.491	0.00	0.00
ATOM	3188	HD21	LEU	X	210	36.183	41.270	55.366	0.00	0.00
ATOM	3189	HD22	LEU	X	210	35.075	40.405	54.227	0.00	0.00
ATOM	3190	HD23	LEU	X	210	36.717	39.746	54.710	0.00	0.00
ATOM	3191	C	LEU	X	210	33.453	43.357	52.457	0.00	0.00
ATOM	3192	O	LEU	X	210	32.607	43.245	53.342	0.00	0.00
ATOM	3193	N	SER	X	211	33.509	44.297	51.495	0.00	0.00
ATOM	3194	H	SER	X	211	34.202	44.149	50.775	0.00	0.00
ATOM	3195	CA	SER	X	211	32.709	45.566	51.417	0.00	0.00
ATOM	3196	HA	SER	X	211	32.433	45.954	52.398	0.00	0.00
ATOM	3197	CB	SER	X	211	33.578	46.689	50.905	0.00	0.00
ATOM	3198	HB2	SER	X	211	32.939	47.555	50.732	0.00	0.00
ATOM	3199	HB3	SER	X	211	34.280	47.033	51.665	0.00	0.00
ATOM	3200	OG	SER	X	211	34.213	46.449	49.608	0.00	0.00
ATOM	3201	HG	SER	X	211	34.783	45.677	49.603	0.00	0.00
ATOM	3202	C	SER	X	211	31.361	45.357	50.719	0.00	0.00
ATOM	3203	O	SER	X	211	31.319	45.274	49.493	0.00	0.00
ATOM	3204	N	PRO	X	212	30.190	45.375	51.389	0.00	0.00
ATOM	3205	CD	PRO	X	212	29.996	45.819	52.763	0.00	0.00
ATOM	3206	HD2	PRO	X	212	30.160	46.895	52.821	0.00	0.00
ATOM	3207	HD3	PRO	X	212	30.626	45.367	53.529	0.00	0.00
ATOM	3208	CG	PRO	X	212	28.594	45.431	53.217	0.00	0.00
ATOM	3209	HG2	PRO	X	212	28.255	46.144	53.969	0.00	0.00
ATOM	3210	HG3	PRO	X	212	28.563	44.397	53.558	0.00	0.00
ATOM	3211	CB	PRO	X	212	27.784	45.518	51.934	0.00	0.00
ATOM	3212	HB2	PRO	X	212	27.248	46.450	51.754	0.00	0.00
ATOM	3213	HB3	PRO	X	212	27.118	44.656	51.918	0.00	0.00
ATOM	3214	CA	PRO	X	212	28.839	45.248	50.785	0.00	0.00
ATOM	3215	HA	PRO	X	212	28.748	44.186	50.556	0.00	0.00
ATOM	3216	C	PRO	X	212	28.680	46.148	49.519	0.00	0.00
ATOM	3217	O	PRO	X	212	28.241	45.541	48.533	0.00	0.00
ATOM	3218	N	PRO	X	213	28.874	47.461	49.499	0.00	0.00
ATOM	3219	CD	PRO	X	213	28.934	48.326	50.650	0.00	0.00
ATOM	3220	HD2	PRO	X	213	29.743	47.992	51.299	0.00	0.00
ATOM	3221	HD3	PRO	X	213	27.929	48.189	51.051	0.00	0.00
ATOM	3222	CG	PRO	X	213	29.181	49.694	50.230	0.00	0.00
ATOM	3223	HG2	PRO	X	213	30.264	49.788	50.315	0.00	0.00
ATOM	3224	HG3	PRO	X	213	28.741	50.493	50.827	0.00	0.00
ATOM	3225	CB	PRO	X	213	28.785	49.696	48.766	0.00	0.00
ATOM	3226	HB2	PRO	X	213	29.620	50.193	48.272	0.00	0.00
ATOM	3227	HB3	PRO	X	213	27.892	50.299	48.601	0.00	0.00
ATOM	3228	CA	PRO	X	213	28.586	48.225	48.285	0.00	0.00
ATOM	3229	HA	PRO	X	213	27.560	48.173	47.922	0.00	0.00
ATOM	3230	C	PRO	X	213	29.402	47.870	47.036	0.00	0.00
ATOM	3231	O	PRO	X	213	28.814	48.018	45.973	0.00	0.00
ATOM	3232	N	SER	X	214	30.522	47.096	47.126	0.00	0.00
ATOM	3233	H	SER	X	214	30.828	46.747	48.023	0.00	0.00
ATOM	3234	CA	SER	X	214	31.067	46.347	45.984	0.00	0.00
ATOM	3235	HA	SER	X	214	31.035	46.971	45.091	0.00	0.00
ATOM	3236	CB	SER	X	214	32.549	46.068	46.294	0.00	0.00
ATOM	3237	HB2	SER	X	214	32.688	45.711	47.315	0.00	0.00
ATOM	3238	HB3	SER	X	214	32.919	45.397	45.518	0.00	0.00
ATOM	3239	OG	SER	X	214	33.302	47.181	46.190	0.00	0.00
ATOM	3240	HG	SER	X	214	34.203	46.932	45.971	0.00	0.00
ATOM	3241	C	SER	X	214	30.424	45.006	45.726	0.00	0.00

ATOM	3242	O	SER	X	214	30.121	44.623	44.568	0.00	0.00
ATOM	3243	N	ARG	X	215	30.051	44.263	46.812	0.00	0.00
ATOM	3244	H	ARG	X	215	30.370	44.639	47.693	0.00	0.00
ATOM	3245	CA	ARG	X	215	29.451	42.928	46.756	0.00	0.00
ATOM	3246	HA	ARG	X	215	30.167	42.293	46.233	0.00	0.00
ATOM	3247	CB	ARG	X	215	29.502	42.349	48.241	0.00	0.00
ATOM	3248	HB2	ARG	X	215	30.421	42.693	48.718	0.00	0.00
ATOM	3249	HB3	ARG	X	215	28.825	42.823	48.952	0.00	0.00
ATOM	3250	CG	ARG	X	215	29.371	40.827	48.346	0.00	0.00
ATOM	3251	HG2	ARG	X	215	28.357	40.445	48.230	0.00	0.00
ATOM	3252	HG3	ARG	X	215	29.991	40.453	47.531	0.00	0.00
ATOM	3253	CD	ARG	X	215	29.842	40.215	49.722	0.00	0.00
ATOM	3254	HD2	ARG	X	215	29.856	39.125	49.726	0.00	0.00
ATOM	3255	HD3	ARG	X	215	30.886	40.514	49.810	0.00	0.00
ATOM	3256	NE	ARG	X	215	29.051	40.657	50.833	0.00	0.00
ATOM	3257	HE	ARG	X	215	28.096	40.897	50.608	0.00	0.00
ATOM	3258	CZ	ARG	X	215	29.354	40.907	52.063	0.00	0.00
ATOM	3259	NH1	ARG	X	215	30.495	40.567	52.525	0.00	0.00
ATOM	3260	HH11	ARG	X	215	31.228	40.351	51.865	0.00	0.00
ATOM	3261	HH12	ARG	X	215	30.717	40.994	53.412	0.00	0.00
ATOM	3262	NH2	ARG	X	215	28.399	41.475	52.820	0.00	0.00
ATOM	3263	HH21	ARG	X	215	27.472	41.743	52.522	0.00	0.00
ATOM	3264	HH22	ARG	X	215	28.561	41.537	53.815	0.00	0.00
ATOM	3265	C	ARG	X	215	28.032	42.843	46.128	0.00	0.00
ATOM	3266	O	ARG	X	215	27.569	41.768	45.791	0.00	0.00
ATOM	3267	N	GLY	X	216	27.328	43.977	45.886	0.00	0.00
ATOM	3268	H	GLY	X	216	27.716	44.831	46.259	0.00	0.00
ATOM	3269	CA	GLY	X	216	26.149	44.123	45.069	0.00	0.00
ATOM	3270	HA2	GLY	X	216	25.461	43.289	45.208	0.00	0.00
ATOM	3271	HA3	GLY	X	216	25.645	45.021	45.426	0.00	0.00
ATOM	3272	C	GLY	X	216	26.377	44.341	43.560	0.00	0.00
ATOM	3273	O	GLY	X	216	25.358	44.466	42.844	0.00	0.00
ATOM	3274	N	LEU	X	217	27.589	44.376	43.074	0.00	0.00
ATOM	3275	H	LEU	X	217	28.294	44.580	43.768	0.00	0.00
ATOM	3276	CA	LEU	X	217	27.863	44.714	41.639	0.00	0.00
ATOM	3277	HA	LEU	X	217	26.917	44.997	41.176	0.00	0.00
ATOM	3278	CB	LEU	X	217	28.888	45.862	41.538	0.00	0.00
ATOM	3279	HB2	LEU	X	217	29.789	45.414	41.957	0.00	0.00
ATOM	3280	HB3	LEU	X	217	29.065	46.196	40.516	0.00	0.00
ATOM	3281	CG	LEU	X	217	28.460	47.202	42.325	0.00	0.00
ATOM	3282	HG	LEU	X	217	28.139	46.965	43.339	0.00	0.00
ATOM	3283	CD1	LEU	X	217	29.594	48.254	42.409	0.00	0.00
ATOM	3284	HD11	LEU	X	217	29.406	49.029	43.153	0.00	0.00
ATOM	3285	HD12	LEU	X	217	29.793	48.433	41.353	0.00	0.00
ATOM	3286	HD13	LEU	X	217	30.402	47.651	42.823	0.00	0.00
ATOM	3287	CD2	LEU	X	217	27.286	47.768	41.511	0.00	0.00
ATOM	3288	HD21	LEU	X	217	27.006	48.725	41.951	0.00	0.00
ATOM	3289	HD22	LEU	X	217	27.516	47.840	40.448	0.00	0.00
ATOM	3290	HD23	LEU	X	217	26.412	47.142	41.692	0.00	0.00
ATOM	3291	C	LEU	X	217	28.315	43.472	40.776	0.00	0.00
ATOM	3292	O	LEU	X	217	28.103	43.472	39.549	0.00	0.00
ATOM	3293	N	PHE	X	218	28.895	42.468	41.405	0.00	0.00
ATOM	3294	H	PHE	X	218	28.897	42.516	42.413	0.00	0.00
ATOM	3295	CA	PHE	X	218	29.515	41.299	40.686	0.00	0.00
ATOM	3296	HA	PHE	X	218	29.319	41.192	39.619	0.00	0.00
ATOM	3297	CB	PHE	X	218	31.046	41.443	40.639	0.00	0.00
ATOM	3298	HB2	PHE	X	218	31.440	40.653	39.999	0.00	0.00
ATOM	3299	HB3	PHE	X	218	31.400	42.379	40.207	0.00	0.00
ATOM	3300	CG	PHE	X	218	31.763	41.319	42.030	0.00	0.00
ATOM	3301	CD1	PHE	X	218	31.859	42.426	42.784	0.00	0.00
ATOM	3302	HD1	PHE	X	218	31.603	43.370	42.325	0.00	0.00
ATOM	3303	CE1	PHE	X	218	32.397	42.423	44.046	0.00	0.00
ATOM	3304	HE1	PHE	X	218	32.385	43.342	44.614	0.00	0.00
ATOM	3305	CZ	PHE	X	218	32.719	41.210	44.632	0.00	0.00
ATOM	3306	HZ	PHE	X	218	33.239	41.139	45.576	0.00	0.00
ATOM	3307	CE2	PHE	X	218	32.699	40.005	43.838	0.00	0.00
ATOM	3308	HE2	PHE	X	218	33.102	39.098	44.263	0.00	0.00

ATOM	3309	CD2	PHE	X	218	32.231	40.106	42.572	0.00	0.00
ATOM	3310	HD2	PHE	X	218	32.354	39.233	41.949	0.00	0.00
ATOM	3311	C	PHE	X	218	29.135	39.975	41.375	0.00	0.00
ATOM	3312	O	PHE	X	218	28.727	39.985	42.559	0.00	0.00
ATOM	3313	N	HIE	X	219	29.220	38.900	40.698	0.00	0.00
ATOM	3314	H	HIE	X	219	29.430	39.011	39.716	0.00	0.00
ATOM	3315	CA	HIE	X	219	28.701	37.571	41.066	0.00	0.00
ATOM	3316	HA	HIE	X	219	27.919	37.586	41.825	0.00	0.00
ATOM	3317	CB	HIE	X	219	28.045	37.112	39.766	0.00	0.00
ATOM	3318	HB2	HIE	X	219	28.751	36.916	38.959	0.00	0.00
ATOM	3319	HB3	HIE	X	219	27.492	36.244	40.127	0.00	0.00
ATOM	3320	CG	HIE	X	219	27.013	38.057	39.238	0.00	0.00
ATOM	3321	ND1	HIE	X	219	27.291	39.147	38.402	0.00	0.00
ATOM	3322	CE1	HIE	X	219	26.134	39.855	38.379	0.00	0.00
ATOM	3323	HE1	HIE	X	219	25.968	40.702	37.730	0.00	0.00
ATOM	3324	NE2	HIE	X	219	25.194	39.252	39.120	0.00	0.00
ATOM	3325	HE2	HIE	X	219	24.268	39.643	39.228	0.00	0.00
ATOM	3326	CD2	HIE	X	219	25.720	38.053	39.598	0.00	0.00
ATOM	3327	HD2	HIE	X	219	25.411	37.307	40.314	0.00	0.00
ATOM	3328	C	HIE	X	219	29.793	36.525	41.507	0.00	0.00
ATOM	3329	O	HIE	X	219	29.425	35.498	42.051	0.00	0.00
ATOM	3330	N	ARG	X	220	31.159	36.736	41.246	0.00	0.00
ATOM	3331	H	ARG	X	220	31.455	37.485	40.636	0.00	0.00
ATOM	3332	CA	ARG	X	220	32.190	35.793	41.500	0.00	0.00
ATOM	3333	HA	ARG	X	220	31.936	35.179	42.364	0.00	0.00
ATOM	3334	CB	ARG	X	220	32.329	34.815	40.276	0.00	0.00
ATOM	3335	HB2	ARG	X	220	32.640	35.334	39.369	0.00	0.00
ATOM	3336	HB3	ARG	X	220	33.159	34.146	40.505	0.00	0.00
ATOM	3337	CG	ARG	X	220	31.059	33.905	39.990	0.00	0.00
ATOM	3338	HG2	ARG	X	220	30.808	33.260	40.832	0.00	0.00
ATOM	3339	HG3	ARG	X	220	30.172	34.471	39.704	0.00	0.00
ATOM	3340	CD	ARG	X	220	31.324	32.923	38.821	0.00	0.00
ATOM	3341	HD2	ARG	X	220	31.693	33.382	37.904	0.00	0.00
ATOM	3342	HD3	ARG	X	220	32.147	32.278	39.130	0.00	0.00
ATOM	3343	NE	ARG	X	220	30.116	32.103	38.737	0.00	0.00
ATOM	3344	HE	ARG	X	220	30.164	31.226	39.237	0.00	0.00
ATOM	3345	CZ	ARG	X	220	28.894	32.383	38.327	0.00	0.00
ATOM	3346	NH1	ARG	X	220	28.596	33.498	37.717	0.00	0.00
ATOM	3347	HH11	ARG	X	220	29.259	34.189	37.397	0.00	0.00
ATOM	3348	HH12	ARG	X	220	27.649	33.628	37.390	0.00	0.00
ATOM	3349	NH2	ARG	X	220	27.953	31.485	38.396	0.00	0.00
ATOM	3350	HH21	ARG	X	220	28.149	30.631	38.899	0.00	0.00
ATOM	3351	HH22	ARG	X	220	26.997	31.573	38.080	0.00	0.00
ATOM	3352	C	ARG	X	220	33.541	36.485	41.729	0.00	0.00
ATOM	3353	O	ARG	X	220	33.719	37.627	41.196	0.00	0.00
ATOM	3354	N	ALA	X	221	34.503	35.873	42.429	0.00	0.00
ATOM	3355	H	ALA	X	221	34.207	35.024	42.890	0.00	0.00
ATOM	3356	CA	ALA	X	221	35.801	36.491	42.733	0.00	0.00
ATOM	3357	HA	ALA	X	221	35.922	37.272	41.982	0.00	0.00
ATOM	3358	CB	ALA	X	221	35.755	37.091	44.154	0.00	0.00
ATOM	3359	HB1	ALA	X	221	35.013	37.889	44.133	0.00	0.00
ATOM	3360	HB2	ALA	X	221	36.747	37.393	44.492	0.00	0.00
ATOM	3361	HB3	ALA	X	221	35.364	36.311	44.807	0.00	0.00
ATOM	3362	C	ALA	X	221	36.914	35.452	42.621	0.00	0.00
ATOM	3363	O	ALA	X	221	36.709	34.298	42.938	0.00	0.00
ATOM	3364	N	VAL	X	222	38.093	35.880	42.203	0.00	0.00
ATOM	3365	H	VAL	X	222	38.183	36.828	41.866	0.00	0.00
ATOM	3366	CA	VAL	X	222	39.375	35.176	42.109	0.00	0.00
ATOM	3367	HA	VAL	X	222	39.188	34.173	42.492	0.00	0.00
ATOM	3368	CB	VAL	X	222	39.654	34.919	40.604	0.00	0.00
ATOM	3369	HB	VAL	X	222	39.875	35.884	40.148	0.00	0.00
ATOM	3370	CG1	VAL	X	222	40.923	34.078	40.512	0.00	0.00
ATOM	3371	HG11	VAL	X	222	41.106	33.854	39.461	0.00	0.00
ATOM	3372	HG12	VAL	X	222	41.897	34.496	40.767	0.00	0.00
ATOM	3373	HG13	VAL	X	222	40.854	33.110	41.010	0.00	0.00
ATOM	3374	CG2	VAL	X	222	38.511	34.285	39.682	0.00	0.00
ATOM	3375	HG21	VAL	X	222	37.577	34.847	39.688	0.00	0.00

ATOM	3376	HG22	VAL	X	222	38.229	33.289	40.022	0.00	0.00
ATOM	3377	HG23	VAL	X	222	38.991	34.260	38.703	0.00	0.00
ATOM	3378	C	VAL	X	222	40.562	35.832	42.811	0.00	0.00
ATOM	3379	O	VAL	X	222	40.919	36.981	42.464	0.00	0.00
ATOM	3380	N	LEU	X	223	41.184	35.124	43.710	0.00	0.00
ATOM	3381	H	LEU	X	223	40.951	34.152	43.858	0.00	0.00
ATOM	3382	CA	LEU	X	223	42.431	35.556	44.384	0.00	0.00
ATOM	3383	HA	LEU	X	223	42.655	36.556	44.013	0.00	0.00
ATOM	3384	CB	LEU	X	223	42.340	35.432	45.883	0.00	0.00
ATOM	3385	HB2	LEU	X	223	41.964	34.472	46.239	0.00	0.00
ATOM	3386	HB3	LEU	X	223	43.316	35.452	46.367	0.00	0.00
ATOM	3387	CG	LEU	X	223	41.470	36.533	46.530	0.00	0.00
ATOM	3388	HG	LEU	X	223	41.565	37.467	45.977	0.00	0.00
ATOM	3389	CD1	LEU	X	223	40.022	36.062	46.432	0.00	0.00
ATOM	3390	HD11	LEU	X	223	39.915	34.978	46.466	0.00	0.00
ATOM	3391	HD12	LEU	X	223	39.605	36.371	45.474	0.00	0.00
ATOM	3392	HD13	LEU	X	223	39.413	36.681	47.091	0.00	0.00
ATOM	3393	CD2	LEU	X	223	41.774	36.594	47.983	0.00	0.00
ATOM	3394	HD21	LEU	X	223	41.117	37.253	48.550	0.00	0.00
ATOM	3395	HD22	LEU	X	223	41.668	35.570	48.341	0.00	0.00
ATOM	3396	HD23	LEU	X	223	42.820	36.876	48.107	0.00	0.00
ATOM	3397	C	LEU	X	223	43.682	34.794	43.873	0.00	0.00
ATOM	3398	O	LEU	X	223	43.708	33.535	43.953	0.00	0.00
ATOM	3399	N	GLN	X	224	44.690	35.550	43.372	0.00	0.00
ATOM	3400	H	GLN	X	224	44.485	36.527	43.214	0.00	0.00
ATOM	3401	CA	GLN	X	224	45.945	34.927	42.938	0.00	0.00
ATOM	3402	HA	GLN	X	224	45.795	33.905	43.287	0.00	0.00
ATOM	3403	CB	GLN	X	224	46.042	34.935	41.407	0.00	0.00
ATOM	3404	HB2	GLN	X	224	46.225	35.969	41.116	0.00	0.00
ATOM	3405	HB3	GLN	X	224	46.974	34.450	41.116	0.00	0.00
ATOM	3406	CG	GLN	X	224	44.799	34.599	40.655	0.00	0.00
ATOM	3407	HG2	GLN	X	224	44.594	33.548	40.858	0.00	0.00
ATOM	3408	HG3	GLN	X	224	43.955	35.221	40.952	0.00	0.00
ATOM	3409	CD	GLN	X	224	45.004	34.750	39.142	0.00	0.00
ATOM	3410	OE1	GLN	X	224	44.102	35.182	38.406	0.00	0.00
ATOM	3411	NE2	GLN	X	224	46.123	34.164	38.595	0.00	0.00
ATOM	3412	HE21	GLN	X	224	46.380	34.213	37.619	0.00	0.00
ATOM	3413	HE22	GLN	X	224	46.892	33.853	39.171	0.00	0.00
ATOM	3414	C	GLN	X	224	47.192	35.550	43.706	0.00	0.00
ATOM	3415	O	GLN	X	224	47.292	36.767	43.685	0.00	0.00
ATOM	3416	N	SER	X	225	48.039	34.771	44.360	0.00	0.00
ATOM	3417	H	SER	X	225	47.850	33.781	44.425	0.00	0.00
ATOM	3418	CA	SER	X	225	49.314	35.227	45.004	0.00	0.00
ATOM	3419	HA	SER	X	225	49.651	34.361	45.574	0.00	0.00
ATOM	3420	CB	SER	X	225	50.421	35.546	43.854	0.00	0.00
ATOM	3421	HB2	SER	X	225	50.226	34.849	43.039	0.00	0.00
ATOM	3422	HB3	SER	X	225	50.201	36.560	43.518	0.00	0.00
ATOM	3423	OG	SER	X	225	51.766	35.317	44.298	0.00	0.00
ATOM	3424	HG	SER	X	225	51.741	34.742	45.066	0.00	0.00
ATOM	3425	C	SER	X	225	49.141	36.349	45.998	0.00	0.00
ATOM	3426	O	SER	X	225	50.079	37.114	46.298	0.00	0.00
ATOM	3427	N	GLY	X	226	47.954	36.617	46.521	0.00	0.00
ATOM	3428	H	GLY	X	226	47.164	36.054	46.238	0.00	0.00
ATOM	3429	CA	GLY	X	226	47.565	37.845	47.300	0.00	0.00
ATOM	3430	HA2	GLY	X	226	48.255	38.011	48.128	0.00	0.00
ATOM	3431	HA3	GLY	X	226	47.388	38.742	46.707	0.00	0.00
ATOM	3432	C	GLY	X	226	46.245	37.585	48.005	0.00	0.00
ATOM	3433	O	GLY	X	226	45.417	36.791	47.570	0.00	0.00
ATOM	3434	N	ALA	X	227	45.986	38.270	49.130	0.00	0.00
ATOM	3435	H	ALA	X	227	46.748	38.852	49.447	0.00	0.00
ATOM	3436	CA	ALA	X	227	44.824	38.204	50.043	0.00	0.00
ATOM	3437	HA	ALA	X	227	43.956	37.857	49.482	0.00	0.00
ATOM	3438	CB	ALA	X	227	45.064	37.131	51.084	0.00	0.00
ATOM	3439	HB1	ALA	X	227	44.232	36.888	51.745	0.00	0.00
ATOM	3440	HB2	ALA	X	227	45.936	37.322	51.709	0.00	0.00
ATOM	3441	HB3	ALA	X	227	45.147	36.159	50.598	0.00	0.00
ATOM	3442	C	ALA	X	227	44.643	39.509	50.828	0.00	0.00

ATOM	3443	O	ALA	X	227	45.617	40.125	51.268	0.00	0.00
ATOM	3444	N	PRO	X	228	43.442	40.015	51.080	0.00	0.00
ATOM	3445	CD	PRO	X	228	42.121	39.411	50.845	0.00	0.00
ATOM	3446	HD2	PRO	X	228	42.263	38.370	51.135	0.00	0.00
ATOM	3447	HD3	PRO	X	228	41.850	39.613	49.809	0.00	0.00
ATOM	3448	CG	PRO	X	228	41.129	40.181	51.753	0.00	0.00
ATOM	3449	HG2	PRO	X	228	41.080	39.714	52.737	0.00	0.00
ATOM	3450	HG3	PRO	X	228	40.077	40.223	51.468	0.00	0.00
ATOM	3451	CB	PRO	X	228	41.746	41.572	51.853	0.00	0.00
ATOM	3452	HB2	PRO	X	228	41.478	42.105	52.765	0.00	0.00
ATOM	3453	HB3	PRO	X	228	41.432	42.158	50.989	0.00	0.00
ATOM	3454	CA	PRO	X	228	43.263	41.293	51.905	0.00	0.00
ATOM	3455	HA	PRO	X	228	43.866	42.084	51.460	0.00	0.00
ATOM	3456	C	PRO	X	228	43.758	41.119	53.303	0.00	0.00
ATOM	3457	O	PRO	X	228	44.312	42.069	53.898	0.00	0.00
ATOM	3458	N	ASN	X	229	43.779	39.886	53.882	0.00	0.00
ATOM	3459	H	ASN	X	229	43.313	39.105	53.444	0.00	0.00
ATOM	3460	CA	ASN	X	229	44.248	39.705	55.250	0.00	0.00
ATOM	3461	HA	ASN	X	229	43.884	40.545	55.841	0.00	0.00
ATOM	3462	CB	ASN	X	229	43.609	38.442	55.988	0.00	0.00
ATOM	3463	HB2	ASN	X	229	44.045	38.495	56.986	0.00	0.00
ATOM	3464	HB3	ASN	X	229	42.526	38.559	55.941	0.00	0.00
ATOM	3465	CG	ASN	X	229	43.784	37.059	55.368	0.00	0.00
ATOM	3466	OD1	ASN	X	229	43.907	36.885	54.155	0.00	0.00
ATOM	3467	ND2	ASN	X	229	43.819	36.072	56.208	0.00	0.00
ATOM	3468	HD21	ASN	X	229	43.867	35.161	55.773	0.00	0.00
ATOM	3469	HD22	ASN	X	229	43.764	36.129	57.215	0.00	0.00
ATOM	3470	C	ASN	X	229	45.736	39.701	55.354	0.00	0.00
ATOM	3471	O	ASN	X	229	46.395	39.591	56.372	0.00	0.00
ATOM	3472	N	GLY	X	230	46.391	39.920	54.205	0.00	0.00
ATOM	3473	H	GLY	X	230	45.835	39.973	53.364	0.00	0.00
ATOM	3474	CA	GLY	X	230	47.871	40.145	54.108	0.00	0.00
ATOM	3475	HA2	GLY	X	230	48.297	39.159	54.298	0.00	0.00
ATOM	3476	HA3	GLY	X	230	48.256	40.422	53.126	0.00	0.00
ATOM	3477	C	GLY	X	230	48.330	41.192	55.135	0.00	0.00
ATOM	3478	O	GLY	X	230	47.642	42.196	55.294	0.00	0.00
ATOM	3479	N	PRO	X	231	49.446	40.945	55.873	0.00	0.00
ATOM	3480	CD	PRO	X	231	50.265	39.758	55.845	0.00	0.00
ATOM	3481	HD2	PRO	X	231	50.985	39.981	55.058	0.00	0.00
ATOM	3482	HD3	PRO	X	231	49.701	38.833	55.727	0.00	0.00
ATOM	3483	CG	PRO	X	231	51.084	39.783	57.146	0.00	0.00
ATOM	3484	HG2	PRO	X	231	52.075	39.358	56.987	0.00	0.00
ATOM	3485	HG3	PRO	X	231	50.544	39.259	57.935	0.00	0.00
ATOM	3486	CB	PRO	X	231	51.169	41.271	57.476	0.00	0.00
ATOM	3487	HB2	PRO	X	231	52.143	41.660	57.178	0.00	0.00
ATOM	3488	HB3	PRO	X	231	51.047	41.335	58.557	0.00	0.00
ATOM	3489	CA	PRO	X	231	49.976	41.927	56.767	0.00	0.00
ATOM	3490	HA	PRO	X	231	49.165	42.107	57.473	0.00	0.00
ATOM	3491	C	PRO	X	231	50.358	43.239	56.159	0.00	0.00
ATOM	3492	O	PRO	X	231	50.390	44.306	56.798	0.00	0.00
ATOM	3493	N	TRP	X	232	50.853	43.221	54.906	0.00	0.00
ATOM	3494	H	TRP	X	232	51.081	42.289	54.591	0.00	0.00
ATOM	3495	CA	TRP	X	232	51.102	44.287	53.968	0.00	0.00
ATOM	3496	HA	TRP	X	232	51.597	45.115	54.475	0.00	0.00
ATOM	3497	CB	TRP	X	232	51.877	43.681	52.939	0.00	0.00
ATOM	3498	HB2	TRP	X	232	51.966	44.510	52.238	0.00	0.00
ATOM	3499	HB3	TRP	X	232	52.927	43.599	53.221	0.00	0.00
ATOM	3500	CG	TRP	X	232	51.472	42.421	52.249	0.00	0.00
ATOM	3501	CD1	TRP	X	232	51.975	41.168	52.483	0.00	0.00
ATOM	3502	HD1	TRP	X	232	52.583	40.941	53.347	0.00	0.00
ATOM	3503	NE1	TRP	X	232	51.243	40.292	51.721	0.00	0.00
ATOM	3504	HE1	TRP	X	232	51.316	39.287	51.789	0.00	0.00
ATOM	3505	CE2	TRP	X	232	50.394	40.857	50.879	0.00	0.00
ATOM	3506	CZ2	TRP	X	232	49.529	40.367	49.791	0.00	0.00
ATOM	3507	HZ2	TRP	X	232	49.479	39.327	49.504	0.00	0.00
ATOM	3508	CH2	TRP	X	232	48.860	41.340	49.047	0.00	0.00
ATOM	3509	HH2	TRP	X	232	48.198	40.994	48.267	0.00	0.00

ATOM	3510	CZ3	TRP	X	232	49.026	42.699	49.261	0.00	0.00
ATOM	3511	HZ3	TRP	X	232	48.472	43.463	48.735	0.00	0.00
ATOM	3512	CE3	TRP	X	232	49.834	43.142	50.347	0.00	0.00
ATOM	3513	HE3	TRP	X	232	49.866	44.213	50.485	0.00	0.00
ATOM	3514	CD2	TRP	X	232	50.527	42.251	51.159	0.00	0.00
ATOM	3515	C	TRP	X	232	49.812	44.920	53.402	0.00	0.00
ATOM	3516	O	TRP	X	232	49.925	46.042	52.938	0.00	0.00
ATOM	3517	N	ALA	X	233	48.632	44.298	53.485	0.00	0.00
ATOM	3518	H	ALA	X	233	48.672	43.465	54.055	0.00	0.00
ATOM	3519	CA	ALA	X	233	47.452	44.806	52.738	0.00	0.00
ATOM	3520	HA	ALA	X	233	47.863	45.559	52.065	0.00	0.00
ATOM	3521	CB	ALA	X	233	46.833	43.576	52.000	0.00	0.00
ATOM	3522	HB1	ALA	X	233	46.266	43.105	52.803	0.00	0.00
ATOM	3523	HB2	ALA	X	233	47.580	42.994	51.459	0.00	0.00
ATOM	3524	HB3	ALA	X	233	46.143	43.964	51.250	0.00	0.00
ATOM	3525	C	ALA	X	233	46.439	45.596	53.616	0.00	0.00
ATOM	3526	O	ALA	X	233	45.394	45.879	53.053	0.00	0.00
ATOM	3527	N	THR	X	234	46.695	45.842	54.854	0.00	0.00
ATOM	3528	H	THR	X	234	47.523	45.451	55.280	0.00	0.00
ATOM	3529	CA	THR	X	234	46.296	47.120	55.547	0.00	0.00
ATOM	3530	HA	THR	X	234	46.037	47.772	54.713	0.00	0.00
ATOM	3531	CB	THR	X	234	45.025	46.981	56.397	0.00	0.00
ATOM	3532	HB	THR	X	234	44.762	47.981	56.742	0.00	0.00
ATOM	3533	CG2	THR	X	234	43.897	46.467	55.520	0.00	0.00
ATOM	3534	HG21	THR	X	234	43.660	47.093	54.660	0.00	0.00
ATOM	3535	HG22	THR	X	234	43.035	46.597	56.174	0.00	0.00
ATOM	3536	HG23	THR	X	234	43.898	45.411	55.252	0.00	0.00
ATOM	3537	OG1	THR	X	234	45.217	46.158	57.501	0.00	0.00
ATOM	3538	HG1	THR	X	234	45.249	45.238	57.228	0.00	0.00
ATOM	3539	C	THR	X	234	47.389	47.841	56.339	0.00	0.00
ATOM	3540	O	THR	X	234	48.423	47.343	56.612	0.00	0.00
ATOM	3541	N	VAL	X	235	47.036	49.038	56.707	0.00	0.00
ATOM	3542	H	VAL	X	235	46.161	49.324	56.290	0.00	0.00
ATOM	3543	CA	VAL	X	235	47.694	49.911	57.755	0.00	0.00
ATOM	3544	HA	VAL	X	235	48.341	49.303	58.387	0.00	0.00
ATOM	3545	CB	VAL	X	235	48.670	50.794	56.991	0.00	0.00
ATOM	3546	HB	VAL	X	235	49.117	50.205	56.190	0.00	0.00
ATOM	3547	CG1	VAL	X	235	48.096	52.108	56.446	0.00	0.00
ATOM	3548	HG11	VAL	X	235	47.871	52.911	57.148	0.00	0.00
ATOM	3549	HG12	VAL	X	235	48.859	52.548	55.803	0.00	0.00
ATOM	3550	HG13	VAL	X	235	47.182	51.823	55.925	0.00	0.00
ATOM	3551	CG2	VAL	X	235	49.867	51.133	57.796	0.00	0.00
ATOM	3552	HG21	VAL	X	235	49.519	51.484	58.767	0.00	0.00
ATOM	3553	HG22	VAL	X	235	50.485	51.906	57.340	0.00	0.00
ATOM	3554	HG23	VAL	X	235	50.519	50.275	57.962	0.00	0.00
ATOM	3555	C	VAL	X	235	46.651	50.742	58.537	0.00	0.00
ATOM	3556	O	VAL	X	235	45.492	50.828	58.157	0.00	0.00
ATOM	3557	N	GLY	X	236	47.056	51.330	59.650	0.00	0.00
ATOM	3558	H	GLY	X	236	48.031	51.109	59.789	0.00	0.00
ATOM	3559	CA	GLY	X	236	46.280	52.221	60.566	0.00	0.00
ATOM	3560	HA2	GLY	X	236	45.252	51.863	60.515	0.00	0.00
ATOM	3561	HA3	GLY	X	236	46.693	52.226	61.574	0.00	0.00
ATOM	3562	C	GLY	X	236	46.359	53.711	60.041	0.00	0.00
ATOM	3563	O	GLY	X	236	47.258	54.196	59.362	0.00	0.00
ATOM	3564	N	MET	X	237	45.303	54.437	60.398	0.00	0.00
ATOM	3565	H	MET	X	237	44.595	53.962	60.939	0.00	0.00
ATOM	3566	CA	MET	X	237	45.152	55.839	60.118	0.00	0.00
ATOM	3567	HA	MET	X	237	45.102	55.940	59.034	0.00	0.00
ATOM	3568	CB	MET	X	237	43.830	56.361	60.736	0.00	0.00
ATOM	3569	HB2	MET	X	237	42.940	55.841	60.384	0.00	0.00
ATOM	3570	HB3	MET	X	237	43.872	56.208	61.814	0.00	0.00
ATOM	3571	CG	MET	X	237	43.704	57.857	60.442	0.00	0.00
ATOM	3572	HG2	MET	X	237	42.809	58.128	61.002	0.00	0.00
ATOM	3573	HG3	MET	X	237	44.536	58.316	60.975	0.00	0.00
ATOM	3574	SD	MET	X	237	43.690	58.502	58.716	0.00	0.00
ATOM	3575	CE	MET	X	237	42.086	57.788	58.075	0.00	0.00
ATOM	3576	HE1	MET	X	237	42.214	56.936	57.407	0.00	0.00

ATOM	3577	HE2	MET	X	237	41.475	57.503	58.931	0.00	0.00
ATOM	3578	HE3	MET	X	237	41.533	58.556	57.533	0.00	0.00
ATOM	3579	C	MET	X	237	46.368	56.644	60.578	0.00	0.00
ATOM	3580	O	MET	X	237	46.882	57.484	59.819	0.00	0.00
ATOM	3581	N	GLY	X	238	46.879	56.433	61.820	0.00	0.00
ATOM	3582	H	GLY	X	238	46.420	55.830	62.487	0.00	0.00
ATOM	3583	CA	GLY	X	238	48.033	57.232	62.313	0.00	0.00
ATOM	3584	HA2	GLY	X	238	47.867	58.283	62.072	0.00	0.00
ATOM	3585	HA3	GLY	X	238	48.148	57.064	63.383	0.00	0.00
ATOM	3586	C	GLY	X	238	49.197	56.940	61.512	0.00	0.00
ATOM	3587	O	GLY	X	238	50.000	57.820	61.326	0.00	0.00
ATOM	3588	N	GLU	X	239	49.401	55.779	60.892	0.00	0.00
ATOM	3589	H	GLU	X	239	48.713	55.042	60.950	0.00	0.00
ATOM	3590	CA	GLU	X	239	50.534	55.595	59.950	0.00	0.00
ATOM	3591	HA	GLU	X	239	51.405	56.040	60.432	0.00	0.00
ATOM	3592	CB	GLU	X	239	50.814	54.136	59.481	0.00	0.00
ATOM	3593	HB2	GLU	X	239	49.854	53.697	59.206	0.00	0.00
ATOM	3594	HB3	GLU	X	239	51.497	54.004	58.642	0.00	0.00
ATOM	3595	CG	GLU	X	239	51.490	53.404	60.684	0.00	0.00
ATOM	3596	HG2	GLU	X	239	50.903	53.639	61.572	0.00	0.00
ATOM	3597	HG3	GLU	X	239	51.450	52.334	60.481	0.00	0.00
ATOM	3598	CD	GLU	X	239	52.985	53.840	60.772	0.00	0.00
ATOM	3599	OE1	GLU	X	239	53.512	54.542	61.674	0.00	0.00
ATOM	3600	OE2	GLU	X	239	53.727	53.381	59.852	0.00	0.00
ATOM	3601	C	GLU	X	239	50.217	56.437	58.784	0.00	0.00
ATOM	3602	O	GLU	X	239	51.077	57.181	58.310	0.00	0.00
ATOM	3603	N	ALA	X	240	48.987	56.242	58.167	0.00	0.00
ATOM	3604	H	ALA	X	240	48.302	55.549	58.431	0.00	0.00
ATOM	3605	CA	ALA	X	240	48.725	56.910	56.875	0.00	0.00
ATOM	3606	HA	ALA	X	240	49.588	56.691	56.246	0.00	0.00
ATOM	3607	CB	ALA	X	240	47.443	56.480	56.184	0.00	0.00
ATOM	3608	HB1	ALA	X	240	46.539	56.664	56.765	0.00	0.00
ATOM	3609	HB2	ALA	X	240	47.553	55.404	56.052	0.00	0.00
ATOM	3610	HB3	ALA	X	240	47.306	56.862	55.173	0.00	0.00
ATOM	3611	C	ALA	X	240	48.887	58.426	57.118	0.00	0.00
ATOM	3612	O	ALA	X	240	49.642	59.023	56.312	0.00	0.00
ATOM	3613	N	ARG	X	241	48.547	58.986	58.286	0.00	0.00
ATOM	3614	H	ARG	X	241	47.925	58.517	58.928	0.00	0.00
ATOM	3615	CA	ARG	X	241	48.822	60.409	58.627	0.00	0.00
ATOM	3616	HA	ARG	X	241	48.410	61.111	57.903	0.00	0.00
ATOM	3617	CB	ARG	X	241	48.181	60.761	59.998	0.00	0.00
ATOM	3618	HB2	ARG	X	241	47.190	60.309	60.024	0.00	0.00
ATOM	3619	HB3	ARG	X	241	48.666	60.218	60.810	0.00	0.00
ATOM	3620	CG	ARG	X	241	48.087	62.322	60.288	0.00	0.00
ATOM	3621	HG2	ARG	X	241	48.999	62.747	59.867	0.00	0.00
ATOM	3622	HG3	ARG	X	241	47.122	62.617	59.876	0.00	0.00
ATOM	3623	CD	ARG	X	241	47.965	62.761	61.747	0.00	0.00
ATOM	3624	HD2	ARG	X	241	47.009	62.451	62.170	0.00	0.00
ATOM	3625	HD3	ARG	X	241	48.732	62.231	62.311	0.00	0.00
ATOM	3626	NE	ARG	X	241	47.995	64.253	61.823	0.00	0.00
ATOM	3627	HE	ARG	X	241	47.355	64.760	61.228	0.00	0.00
ATOM	3628	CZ	ARG	X	241	48.829	65.029	62.556	0.00	0.00
ATOM	3629	NH1	ARG	X	241	49.525	64.498	63.505	0.00	0.00
ATOM	3630	HH11	ARG	X	241	49.403	63.556	63.848	0.00	0.00
ATOM	3631	HH12	ARG	X	241	50.260	65.027	63.952	0.00	0.00
ATOM	3632	NH2	ARG	X	241	48.899	66.293	62.280	0.00	0.00
ATOM	3633	HH21	ARG	X	241	48.536	66.729	61.444	0.00	0.00
ATOM	3634	HH22	ARG	X	241	49.520	66.891	62.805	0.00	0.00
ATOM	3635	C	ARG	X	241	50.316	60.676	58.809	0.00	0.00
ATOM	3636	O	ARG	X	241	50.809	61.657	58.235	0.00	0.00
ATOM	3637	N	ARG	X	242	51.090	59.861	59.536	0.00	0.00
ATOM	3638	H	ARG	X	242	50.613	59.098	59.994	0.00	0.00
ATOM	3639	CA	ARG	X	242	52.537	60.070	59.815	0.00	0.00
ATOM	3640	HA	ARG	X	242	52.702	61.033	60.299	0.00	0.00
ATOM	3641	CB	ARG	X	242	53.043	58.957	60.784	0.00	0.00
ATOM	3642	HB2	ARG	X	242	52.533	58.823	61.738	0.00	0.00
ATOM	3643	HB3	ARG	X	242	53.035	58.013	60.240	0.00	0.00

ATOM	3644	CG	ARG	X	242	54.501	59.154	61.229	0.00	0.00
ATOM	3645	HG2	ARG	X	242	55.196	59.450	60.443	0.00	0.00
ATOM	3646	HG3	ARG	X	242	54.501	59.970	61.951	0.00	0.00
ATOM	3647	CD	ARG	X	242	55.114	57.897	61.842	0.00	0.00
ATOM	3648	HD2	ARG	X	242	56.106	58.176	62.198	0.00	0.00
ATOM	3649	HD3	ARG	X	242	54.686	57.564	62.788	0.00	0.00
ATOM	3650	NE	ARG	X	242	55.160	56.665	60.978	0.00	0.00
ATOM	3651	HE	ARG	X	242	54.634	55.876	61.325	0.00	0.00
ATOM	3652	CZ	ARG	X	242	55.974	56.389	59.980	0.00	0.00
ATOM	3653	NH1	ARG	X	242	56.894	57.233	59.620	0.00	0.00
ATOM	3654	HH11	ARG	X	242	57.284	57.864	60.306	0.00	0.00
ATOM	3655	HH12	ARG	X	242	57.372	57.090	58.742	0.00	0.00
ATOM	3656	NH2	ARG	X	242	55.840	55.206	59.379	0.00	0.00
ATOM	3657	HH21	ARG	X	242	55.181	54.521	59.721	0.00	0.00
ATOM	3658	HH22	ARG	X	242	56.633	54.823	58.884	0.00	0.00
ATOM	3659	C	ARG	X	242	53.413	60.104	58.521	0.00	0.00
ATOM	3660	O	ARG	X	242	54.312	60.861	58.392	0.00	0.00
ATOM	3661	N	ARG	X	243	52.953	59.251	57.535	0.00	0.00
ATOM	3662	H	ARG	X	243	52.171	58.665	57.788	0.00	0.00
ATOM	3663	CA	ARG	X	243	53.565	59.089	56.163	0.00	0.00
ATOM	3664	HA	ARG	X	243	54.639	59.036	56.338	0.00	0.00
ATOM	3665	CB	ARG	X	243	53.184	57.730	55.573	0.00	0.00
ATOM	3666	HB2	ARG	X	243	52.140	57.668	55.264	0.00	0.00
ATOM	3667	HB3	ARG	X	243	53.836	57.681	54.701	0.00	0.00
ATOM	3668	CG	ARG	X	243	53.784	56.498	56.402	0.00	0.00
ATOM	3669	HG2	ARG	X	243	54.838	56.709	56.583	0.00	0.00
ATOM	3670	HG3	ARG	X	243	53.299	56.556	57.376	0.00	0.00
ATOM	3671	CD	ARG	X	243	53.506	55.191	55.750	0.00	0.00
ATOM	3672	HD2	ARG	X	243	52.441	55.132	55.525	0.00	0.00
ATOM	3673	HD3	ARG	X	243	54.133	55.047	54.870	0.00	0.00
ATOM	3674	NE	ARG	X	243	53.667	54.100	56.738	0.00	0.00
ATOM	3675	HE	ARG	X	243	53.442	54.378	57.683	0.00	0.00
ATOM	3676	CZ	ARG	X	243	53.662	52.814	56.391	0.00	0.00
ATOM	3677	NH1	ARG	X	243	53.511	52.352	55.175	0.00	0.00
ATOM	3678	HH11	ARG	X	243	53.314	53.101	54.526	0.00	0.00
ATOM	3679	HH12	ARG	X	243	53.416	51.437	54.759	0.00	0.00
ATOM	3680	NH2	ARG	X	243	53.681	51.934	57.408	0.00	0.00
ATOM	3681	HH21	ARG	X	243	53.790	52.295	58.345	0.00	0.00
ATOM	3682	HH22	ARG	X	243	53.785	50.942	57.251	0.00	0.00
ATOM	3683	C	ARG	X	243	53.224	60.334	55.329	0.00	0.00
ATOM	3684	O	ARG	X	243	54.176	60.827	54.745	0.00	0.00
ATOM	3685	N	ALA	X	244	52.006	60.807	55.348	0.00	0.00
ATOM	3686	H	ALA	X	244	51.388	60.108	55.734	0.00	0.00
ATOM	3687	CA	ALA	X	244	51.516	62.050	54.698	0.00	0.00
ATOM	3688	HA	ALA	X	244	51.745	62.025	53.633	0.00	0.00
ATOM	3689	CB	ALA	X	244	49.994	62.107	54.910	0.00	0.00
ATOM	3690	HB1	ALA	X	244	49.803	62.464	55.922	0.00	0.00
ATOM	3691	HB2	ALA	X	244	49.513	61.136	54.793	0.00	0.00
ATOM	3692	HB3	ALA	X	244	49.514	62.824	54.244	0.00	0.00
ATOM	3693	C	ALA	X	244	52.272	63.289	55.245	0.00	0.00
ATOM	3694	O	ALA	X	244	52.704	64.128	54.404	0.00	0.00
ATOM	3695	N	THR	X	245	52.616	63.368	56.539	0.00	0.00
ATOM	3696	H	THR	X	245	52.162	62.731	57.179	0.00	0.00
ATOM	3697	CA	THR	X	245	53.307	64.556	57.046	0.00	0.00
ATOM	3698	HA	THR	X	245	52.872	65.498	56.710	0.00	0.00
ATOM	3699	CB	THR	X	245	53.511	64.632	58.571	0.00	0.00
ATOM	3700	HB	THR	X	245	54.219	63.823	58.756	0.00	0.00
ATOM	3701	CG2	THR	X	245	53.961	65.988	59.104	0.00	0.00
ATOM	3702	HG21	THR	X	245	53.169	66.699	59.338	0.00	0.00
ATOM	3703	HG22	THR	X	245	54.654	66.428	58.386	0.00	0.00
ATOM	3704	HG23	THR	X	245	54.362	65.725	60.083	0.00	0.00
ATOM	3705	OG1	THR	X	245	52.329	64.299	59.219	0.00	0.00
ATOM	3706	HG1	THR	X	245	51.647	64.811	58.777	0.00	0.00
ATOM	3707	C	THR	X	245	54.741	64.566	56.300	0.00	0.00
ATOM	3708	O	THR	X	245	55.208	65.639	55.834	0.00	0.00
ATOM	3709	N	GLN	X	246	55.393	63.394	56.259	0.00	0.00
ATOM	3710	H	GLN	X	246	55.036	62.714	56.916	0.00	0.00

ATOM	3711	CA	GLN	X	246	56.719	63.121	55.666	0.00	0.00
ATOM	3712	HA	GLN	X	246	57.423	63.776	56.179	0.00	0.00
ATOM	3713	CB	GLN	X	246	57.134	61.676	56.049	0.00	0.00
ATOM	3714	HB2	GLN	X	246	57.067	61.591	57.134	0.00	0.00
ATOM	3715	HB3	GLN	X	246	56.482	60.897	55.652	0.00	0.00
ATOM	3716	CG	GLN	X	246	58.546	61.353	55.510	0.00	0.00
ATOM	3717	HG2	GLN	X	246	58.511	61.430	54.423	0.00	0.00
ATOM	3718	HG3	GLN	X	246	59.182	62.093	55.995	0.00	0.00
ATOM	3719	CD	GLN	X	246	59.122	59.939	55.815	0.00	0.00
ATOM	3720	OE1	GLN	X	246	58.474	59.013	56.357	0.00	0.00
ATOM	3721	NE2	GLN	X	246	60.319	59.622	55.322	0.00	0.00
ATOM	3722	HE21	GLN	X	246	60.695	58.714	55.559	0.00	0.00
ATOM	3723	HE22	GLN	X	246	60.862	60.310	54.822	0.00	0.00
ATOM	3724	C	GLN	X	246	56.786	63.341	54.123	0.00	0.00
ATOM	3725	O	GLN	X	246	57.542	64.194	53.670	0.00	0.00
ATOM	3726	N	LEU	X	247	55.854	62.765	53.330	0.00	0.00
ATOM	3727	H	LEU	X	247	55.379	61.996	53.783	0.00	0.00
ATOM	3728	CA	LEU	X	247	55.573	63.101	51.950	0.00	0.00
ATOM	3729	HA	LEU	X	247	56.448	62.743	51.407	0.00	0.00
ATOM	3730	CB	LEU	X	247	54.358	62.280	51.518	0.00	0.00
ATOM	3731	HB2	LEU	X	247	54.418	61.220	51.766	0.00	0.00
ATOM	3732	HB3	LEU	X	247	53.496	62.662	52.065	0.00	0.00
ATOM	3733	CG	LEU	X	247	54.018	62.475	50.036	0.00	0.00
ATOM	3734	HG	LEU	X	247	53.598	63.477	49.947	0.00	0.00
ATOM	3735	CD1	LEU	X	247	55.197	62.360	49.047	0.00	0.00
ATOM	3736	HD11	LEU	X	247	55.641	61.379	49.217	0.00	0.00
ATOM	3737	HD12	LEU	X	247	55.915	63.176	49.124	0.00	0.00
ATOM	3738	HD13	LEU	X	247	54.740	62.329	48.058	0.00	0.00
ATOM	3739	CD2	LEU	X	247	52.950	61.579	49.491	0.00	0.00
ATOM	3740	HD21	LEU	X	247	53.314	60.577	49.263	0.00	0.00
ATOM	3741	HD22	LEU	X	247	52.112	61.503	50.183	0.00	0.00
ATOM	3742	HD23	LEU	X	247	52.450	61.966	48.603	0.00	0.00
ATOM	3743	C	LEU	X	247	55.549	64.614	51.738	0.00	0.00
ATOM	3744	O	LEU	X	247	56.265	65.084	50.869	0.00	0.00
ATOM	3745	N	ALA	X	248	54.806	65.320	52.615	0.00	0.00
ATOM	3746	H	ALA	X	248	54.345	64.812	53.356	0.00	0.00
ATOM	3747	CA	ALA	X	248	54.640	66.711	52.398	0.00	0.00
ATOM	3748	HA	ALA	X	248	54.415	66.803	51.336	0.00	0.00
ATOM	3749	CB	ALA	X	248	53.446	67.060	53.238	0.00	0.00
ATOM	3750	HB1	ALA	X	248	52.583	66.477	52.916	0.00	0.00
ATOM	3751	HB2	ALA	X	248	53.195	68.118	53.159	0.00	0.00
ATOM	3752	HB3	ALA	X	248	53.627	66.947	54.307	0.00	0.00
ATOM	3753	C	ALA	X	248	55.903	67.515	52.743	0.00	0.00
ATOM	3754	O	ALA	X	248	56.459	68.309	52.062	0.00	0.00
ATOM	3755	N	HIE	X	249	56.481	67.166	53.878	0.00	0.00
ATOM	3756	H	HIE	X	249	56.058	66.428	54.423	0.00	0.00
ATOM	3757	CA	HIE	X	249	57.783	67.760	54.248	0.00	0.00
ATOM	3758	HA	HIE	X	249	57.613	68.826	54.399	0.00	0.00
ATOM	3759	CB	HIE	X	249	58.218	67.092	55.538	0.00	0.00
ATOM	3760	HB2	HIE	X	249	57.353	66.960	56.189	0.00	0.00
ATOM	3761	HB3	HIE	X	249	58.503	66.067	55.303	0.00	0.00
ATOM	3762	CG	HIE	X	249	59.291	67.834	56.391	0.00	0.00
ATOM	3763	ND1	HIE	X	249	58.885	68.523	57.554	0.00	0.00
ATOM	3764	CE1	HIE	X	249	60.016	69.007	58.214	0.00	0.00
ATOM	3765	HE1	HIE	X	249	60.191	69.477	59.170	0.00	0.00
ATOM	3766	NE2	HIE	X	249	61.064	68.540	57.545	0.00	0.00
ATOM	3767	HE2	HIE	X	249	62.018	68.754	57.796	0.00	0.00
ATOM	3768	CD2	HIE	X	249	60.608	67.878	56.332	0.00	0.00
ATOM	3769	HD2	HIE	X	249	61.128	67.378	55.528	0.00	0.00
ATOM	3770	C	HIE	X	249	58.926	67.636	53.102	0.00	0.00
ATOM	3771	O	HIE	X	249	59.650	68.574	52.824	0.00	0.00
ATOM	3772	N	LEU	X	250	59.059	66.479	52.489	0.00	0.00
ATOM	3773	H	LEU	X	250	58.530	65.680	52.806	0.00	0.00
ATOM	3774	CA	LEU	X	250	59.955	66.120	51.400	0.00	0.00
ATOM	3775	HA	LEU	X	250	61.006	66.349	51.574	0.00	0.00
ATOM	3776	CB	LEU	X	250	59.810	64.662	51.052	0.00	0.00
ATOM	3777	HB2	LEU	X	250	58.746	64.434	51.105	0.00	0.00

ATOM	3778	HB3	LEU	X	250	60.188	64.481	50.046	0.00	0.00
ATOM	3779	CG	LEU	X	250	60.515	63.579	51.940	0.00	0.00
ATOM	3780	HG	LEU	X	250	60.422	63.750	53.013	0.00	0.00
ATOM	3781	CD1	LEU	X	250	59.806	62.272	51.733	0.00	0.00
ATOM	3782	HD11	LEU	X	250	60.280	61.579	52.428	0.00	0.00
ATOM	3783	HD12	LEU	X	250	60.122	61.951	50.741	0.00	0.00
ATOM	3784	HD13	LEU	X	250	58.721	62.304	51.838	0.00	0.00
ATOM	3785	CD2	LEU	X	250	62.022	63.543	51.723	0.00	0.00
ATOM	3786	HD21	LEU	X	250	62.538	64.433	52.083	0.00	0.00
ATOM	3787	HD22	LEU	X	250	62.435	62.640	52.173	0.00	0.00
ATOM	3788	HD23	LEU	X	250	62.141	63.551	50.639	0.00	0.00
ATOM	3789	C	LEU	X	250	59.569	66.847	50.113	0.00	0.00
ATOM	3790	O	LEU	X	250	60.421	67.431	49.391	0.00	0.00
ATOM	3791	N	VAL	X	251	58.278	66.955	49.796	0.00	0.00
ATOM	3792	H	VAL	X	251	57.674	66.314	50.291	0.00	0.00
ATOM	3793	CA	VAL	X	251	57.730	67.654	48.669	0.00	0.00
ATOM	3794	HA	VAL	X	251	58.136	67.284	47.727	0.00	0.00
ATOM	3795	CB	VAL	X	251	56.142	67.325	48.646	0.00	0.00
ATOM	3796	HB	VAL	X	251	55.965	67.318	49.722	0.00	0.00
ATOM	3797	CG1	VAL	X	251	55.357	68.459	48.037	0.00	0.00
ATOM	3798	HG11	VAL	X	251	54.300	68.229	47.905	0.00	0.00
ATOM	3799	HG12	VAL	X	251	55.451	69.323	48.695	0.00	0.00
ATOM	3800	HG13	VAL	X	251	55.894	68.785	47.146	0.00	0.00
ATOM	3801	CG2	VAL	X	251	55.883	65.911	48.015	0.00	0.00
ATOM	3802	HG21	VAL	X	251	56.524	65.109	48.384	0.00	0.00
ATOM	3803	HG22	VAL	X	251	56.159	65.922	46.960	0.00	0.00
ATOM	3804	HG23	VAL	X	251	54.807	65.824	48.166	0.00	0.00
ATOM	3805	C	VAL	X	251	57.945	69.148	48.748	0.00	0.00
ATOM	3806	O	VAL	X	251	58.092	69.713	47.634	0.00	0.00
ATOM	3807	N	GLY	X	252	58.027	69.807	49.944	0.00	0.00
ATOM	3808	H	GLY	X	252	57.856	69.236	50.760	0.00	0.00
ATOM	3809	CA	GLY	X	252	58.122	71.230	50.153	0.00	0.00
ATOM	3810	HA2	GLY	X	252	58.917	71.397	50.880	0.00	0.00
ATOM	3811	HA3	GLY	X	252	58.428	71.693	49.215	0.00	0.00
ATOM	3812	C	GLY	X	252	56.829	71.900	50.740	0.00	0.00
ATOM	3813	O	GLY	X	252	56.606	73.096	50.642	0.00	0.00
ATOM	3814	N	CYX	X	253	56.017	71.152	51.529	0.00	0.00
ATOM	3815	H	CYX	X	253	56.282	70.190	51.684	0.00	0.00
ATOM	3816	CA	CYX	X	253	54.725	71.469	52.107	0.00	0.00
ATOM	3817	HA	CYX	X	253	54.371	72.466	51.845	0.00	0.00
ATOM	3818	CB	CYX	X	253	53.674	70.554	51.417	0.00	0.00
ATOM	3819	HB2	CYX	X	253	54.029	69.523	51.438	0.00	0.00
ATOM	3820	HB3	CYX	X	253	52.785	70.506	52.046	0.00	0.00
ATOM	3821	SG	CYX	X	253	53.128	71.044	49.737	0.00	0.00
ATOM	3822	C	CYX	X	253	54.681	71.468	53.704	0.00	0.00
ATOM	3823	O	CYX	X	253	55.086	70.461	54.332	0.00	0.00
ATOM	3824	N	PRO	X	254	54.176	72.493	54.331	0.00	0.00
ATOM	3825	CD	PRO	X	254	54.273	72.599	55.741	0.00	0.00
ATOM	3826	HD2	PRO	X	254	55.150	72.040	56.071	0.00	0.00
ATOM	3827	HD3	PRO	X	254	53.447	72.072	56.218	0.00	0.00
ATOM	3828	CG	PRO	X	254	54.161	74.075	56.195	0.00	0.00
ATOM	3829	HG2	PRO	X	254	55.110	74.527	55.905	0.00	0.00
ATOM	3830	HG3	PRO	X	254	53.864	74.251	57.229	0.00	0.00
ATOM	3831	CB	PRO	X	254	53.078	74.443	55.128	0.00	0.00
ATOM	3832	HB2	PRO	X	254	53.101	75.530	55.040	0.00	0.00
ATOM	3833	HB3	PRO	X	254	52.121	74.090	55.512	0.00	0.00
ATOM	3834	CA	PRO	X	254	53.592	73.721	53.900	0.00	0.00
ATOM	3835	HA	PRO	X	254	52.832	73.558	53.136	0.00	0.00
ATOM	3836	C	PRO	X	254	54.742	74.602	53.238	0.00	0.00
ATOM	3837	O	PRO	X	254	55.943	74.284	53.215	0.00	0.00
ATOM	3838	N	PRO	X	255	54.318	75.736	52.633	0.00	0.00
ATOM	3839	CD	PRO	X	255	53.003	76.265	52.554	0.00	0.00
ATOM	3840	HD2	PRO	X	255	52.856	76.996	53.349	0.00	0.00
ATOM	3841	HD3	PRO	X	255	52.216	75.514	52.628	0.00	0.00
ATOM	3842	CG	PRO	X	255	52.831	76.976	51.317	0.00	0.00
ATOM	3843	HG2	PRO	X	255	52.074	77.705	51.604	0.00	0.00
ATOM	3844	HG3	PRO	X	255	52.603	76.238	50.548	0.00	0.00

ATOM	3845	CB	PRO	X	255	54.205	77.561	51.083	0.00	0.00
ATOM	3846	HB2	PRO	X	255	54.306	78.529	51.573	0.00	0.00
ATOM	3847	HB3	PRO	X	255	54.394	77.727	50.022	0.00	0.00
ATOM	3848	CA	PRO	X	255	55.195	76.558	51.810	0.00	0.00
ATOM	3849	HA	PRO	X	255	55.755	75.958	51.092	0.00	0.00
ATOM	3850	C	PRO	X	255	56.119	77.347	52.629	0.00	0.00
ATOM	3851	O	PRO	X	255	55.826	78.350	53.357	0.00	0.00
ATOM	3852	N	GLY	X	256	57.404	76.878	52.531	0.00	0.00
ATOM	3853	H	GLY	X	256	57.636	76.114	51.913	0.00	0.00
ATOM	3854	CA	GLY	X	256	58.552	77.647	53.172	0.00	0.00
ATOM	3855	HA2	GLY	X	256	59.444	77.390	52.601	0.00	0.00
ATOM	3856	HA3	GLY	X	256	58.438	78.727	53.087	0.00	0.00
ATOM	3857	C	GLY	X	256	58.750	77.333	54.692	0.00	0.00
ATOM	3858	O	GLY	X	256	59.960	77.330	55.083	0.00	0.00
ATOM	3859	N	GLY	X	257	57.700	76.973	55.398	0.00	0.00
ATOM	3860	H	GLY	X	257	56.839	77.051	54.874	0.00	0.00
ATOM	3861	CA	GLY	X	257	57.711	76.300	56.724	0.00	0.00
ATOM	3862	HA2	GLY	X	257	58.583	76.583	57.314	0.00	0.00
ATOM	3863	HA3	GLY	X	257	56.836	76.740	57.201	0.00	0.00
ATOM	3864	C	GLY	X	257	57.589	74.769	56.802	0.00	0.00
ATOM	3865	O	GLY	X	257	57.698	74.092	55.787	0.00	0.00
ATOM	3866	N	THR	X	258	57.216	74.230	57.955	0.00	0.00
ATOM	3867	H	THR	X	258	57.149	74.840	58.757	0.00	0.00
ATOM	3868	CA	THR	X	258	57.050	72.842	58.176	0.00	0.00
ATOM	3869	HA	THR	X	258	56.787	72.353	57.238	0.00	0.00
ATOM	3870	CB	THR	X	258	58.304	72.168	58.740	0.00	0.00
ATOM	3871	HB	THR	X	258	58.148	71.091	58.795	0.00	0.00
ATOM	3872	CG2	THR	X	258	59.422	72.316	57.679	0.00	0.00
ATOM	3873	HG21	THR	X	258	60.104	71.473	57.794	0.00	0.00
ATOM	3874	HG22	THR	X	258	59.896	73.297	57.646	0.00	0.00
ATOM	3875	HG23	THR	X	258	59.051	72.106	56.676	0.00	0.00
ATOM	3876	OG1	THR	X	258	58.698	72.610	59.958	0.00	0.00
ATOM	3877	HG1	THR	X	258	58.964	73.525	59.839	0.00	0.00
ATOM	3878	C	THR	X	258	55.910	72.612	59.209	0.00	0.00
ATOM	3879	O	THR	X	258	55.622	73.403	60.065	0.00	0.00
ATOM	3880	N	GLY	X	259	55.244	71.451	59.051	0.00	0.00
ATOM	3881	H	GLY	X	259	55.437	70.921	58.214	0.00	0.00
ATOM	3882	CA	GLY	X	259	54.006	70.992	59.728	0.00	0.00
ATOM	3883	HA2	GLY	X	259	53.768	70.035	59.263	0.00	0.00
ATOM	3884	HA3	GLY	X	259	54.278	70.915	60.781	0.00	0.00
ATOM	3885	C	GLY	X	259	52.633	71.825	59.588	0.00	0.00
ATOM	3886	O	GLY	X	259	52.272	71.959	58.408	0.00	0.00
ATOM	3887	N	GLY	X	260	52.077	72.346	60.651	0.00	0.00
ATOM	3888	H	GLY	X	260	52.635	72.452	61.486	0.00	0.00
ATOM	3889	CA	GLY	X	260	50.904	73.183	60.537	0.00	0.00
ATOM	3890	HA2	GLY	X	260	50.751	73.816	61.412	0.00	0.00
ATOM	3891	HA3	GLY	X	260	51.004	73.836	59.670	0.00	0.00
ATOM	3892	C	GLY	X	260	49.583	72.469	60.313	0.00	0.00
ATOM	3893	O	GLY	X	260	49.573	71.258	60.255	0.00	0.00
ATOM	3894	N	ASN	X	261	48.477	73.221	60.215	0.00	0.00
ATOM	3895	H	ASN	X	261	48.587	74.218	60.333	0.00	0.00
ATOM	3896	CA	ASN	X	261	47.104	72.789	59.924	0.00	0.00
ATOM	3897	HA	ASN	X	261	46.810	72.368	60.885	0.00	0.00
ATOM	3898	CB	ASN	X	261	46.182	73.962	59.564	0.00	0.00
ATOM	3899	HB2	ASN	X	261	46.139	74.774	60.290	0.00	0.00
ATOM	3900	HB3	ASN	X	261	46.504	74.447	58.643	0.00	0.00
ATOM	3901	CG	ASN	X	261	44.782	73.510	59.185	0.00	0.00
ATOM	3902	OD1	ASN	X	261	44.570	73.413	58.013	0.00	0.00
ATOM	3903	ND2	ASN	X	261	43.829	73.366	60.087	0.00	0.00
ATOM	3904	HD21	ASN	X	261	42.909	73.171	59.720	0.00	0.00
ATOM	3905	HD22	ASN	X	261	44.019	73.391	61.078	0.00	0.00
ATOM	3906	C	ASN	X	261	47.138	71.720	58.762	0.00	0.00
ATOM	3907	O	ASN	X	261	47.642	71.945	57.683	0.00	0.00
ATOM	3908	N	ASP	X	262	46.498	70.555	59.003	0.00	0.00
ATOM	3909	H	ASP	X	262	46.103	70.430	59.924	0.00	0.00
ATOM	3910	CA	ASP	X	262	46.547	69.405	58.060	0.00	0.00
ATOM	3911	HA	ASP	X	262	47.597	69.283	57.792	0.00	0.00

ATOM	3912	CB	ASP	X	262	46.047	68.088	58.689	0.00	0.00
ATOM	3913	HB2	ASP	X	262	45.005	68.132	59.006	0.00	0.00
ATOM	3914	HB3	ASP	X	262	46.089	67.257	57.984	0.00	0.00
ATOM	3915	CG	ASP	X	262	46.753	67.551	59.866	0.00	0.00
ATOM	3916	OD1	ASP	X	262	46.174	67.580	60.969	0.00	0.00
ATOM	3917	OD2	ASP	X	262	47.929	67.278	59.676	0.00	0.00
ATOM	3918	C	ASP	X	262	45.775	69.746	56.763	0.00	0.00
ATOM	3919	O	ASP	X	262	45.997	69.252	55.630	0.00	0.00
ATOM	3920	N	THR	X	263	44.837	70.687	56.913	0.00	0.00
ATOM	3921	H	THR	X	263	44.873	71.275	57.733	0.00	0.00
ATOM	3922	CA	THR	X	263	43.902	70.995	55.829	0.00	0.00
ATOM	3923	HA	THR	X	263	43.637	70.100	55.266	0.00	0.00
ATOM	3924	CB	THR	X	263	42.642	71.665	56.353	0.00	0.00
ATOM	3925	HB	THR	X	263	42.777	72.676	56.738	0.00	0.00
ATOM	3926	CG2	THR	X	263	41.485	71.702	55.423	0.00	0.00
ATOM	3927	HG21	THR	X	263	40.724	72.159	56.056	0.00	0.00
ATOM	3928	HG22	THR	X	263	41.402	70.702	54.998	0.00	0.00
ATOM	3929	HG23	THR	X	263	41.786	72.384	54.628	0.00	0.00
ATOM	3930	OG1	THR	X	263	42.338	70.929	57.508	0.00	0.00
ATOM	3931	HG1	THR	X	263	41.803	71.540	58.020	0.00	0.00
ATOM	3932	C	THR	X	263	44.695	71.919	54.882	0.00	0.00
ATOM	3933	O	THR	X	263	44.845	71.511	53.763	0.00	0.00
ATOM	3934	N	GLU	X	264	45.390	72.988	55.364	0.00	0.00
ATOM	3935	H	GLU	X	264	45.174	73.286	56.305	0.00	0.00
ATOM	3936	CA	GLU	X	264	46.366	73.822	54.578	0.00	0.00
ATOM	3937	HA	GLU	X	264	45.845	74.260	53.727	0.00	0.00
ATOM	3938	CB	GLU	X	264	46.941	74.929	55.490	0.00	0.00
ATOM	3939	HB2	GLU	X	264	46.038	75.464	55.781	0.00	0.00
ATOM	3940	HB3	GLU	X	264	47.408	74.458	56.355	0.00	0.00
ATOM	3941	CG	GLU	X	264	47.997	75.911	54.845	0.00	0.00
ATOM	3942	HG2	GLU	X	264	49.024	75.585	55.008	0.00	0.00
ATOM	3943	HG3	GLU	X	264	47.677	76.041	53.812	0.00	0.00
ATOM	3944	CD	GLU	X	264	47.871	77.252	55.534	0.00	0.00
ATOM	3945	OE1	GLU	X	264	47.321	78.194	54.998	0.00	0.00
ATOM	3946	OE2	GLU	X	264	48.268	77.389	56.730	0.00	0.00
ATOM	3947	C	GLU	X	264	47.588	72.994	54.045	0.00	0.00
ATOM	3948	O	GLU	X	264	48.275	73.437	53.128	0.00	0.00
ATOM	3949	N	LEU	X	265	47.805	71.812	54.655	0.00	0.00
ATOM	3950	H	LEU	X	265	47.130	71.611	55.379	0.00	0.00
ATOM	3951	CA	LEU	X	265	48.950	70.927	54.347	0.00	0.00
ATOM	3952	HA	LEU	X	265	49.758	71.577	54.012	0.00	0.00
ATOM	3953	CB	LEU	X	265	49.299	70.209	55.642	0.00	0.00
ATOM	3954	HB2	LEU	X	265	49.587	70.882	56.450	0.00	0.00
ATOM	3955	HB3	LEU	X	265	48.557	69.480	55.967	0.00	0.00
ATOM	3956	CG	LEU	X	265	50.490	69.233	55.451	0.00	0.00
ATOM	3957	HG	LEU	X	265	50.312	68.432	54.734	0.00	0.00
ATOM	3958	CD1	LEU	X	265	51.770	69.951	55.069	0.00	0.00
ATOM	3959	HD11	LEU	X	265	51.777	70.666	54.246	0.00	0.00
ATOM	3960	HD12	LEU	X	265	52.627	69.290	54.942	0.00	0.00
ATOM	3961	HD13	LEU	X	265	51.990	70.553	55.951	0.00	0.00
ATOM	3962	CD2	LEU	X	265	50.606	68.351	56.700	0.00	0.00
ATOM	3963	HD21	LEU	X	265	50.412	68.961	57.583	0.00	0.00
ATOM	3964	HD22	LEU	X	265	49.907	67.538	56.507	0.00	0.00
ATOM	3965	HD23	LEU	X	265	51.581	67.877	56.820	0.00	0.00
ATOM	3966	C	LEU	X	265	48.651	70.055	53.120	0.00	0.00
ATOM	3967	O	LEU	X	265	49.442	70.077	52.187	0.00	0.00
ATOM	3968	N	VAL	X	266	47.534	69.343	53.140	0.00	0.00
ATOM	3969	H	VAL	X	266	46.969	69.359	53.977	0.00	0.00
ATOM	3970	CA	VAL	X	266	46.972	68.570	51.970	0.00	0.00
ATOM	3971	HA	VAL	X	266	47.826	68.040	51.546	0.00	0.00
ATOM	3972	CB	VAL	X	266	45.991	67.462	52.313	0.00	0.00
ATOM	3973	HB	VAL	X	266	46.508	66.873	53.069	0.00	0.00
ATOM	3974	CG1	VAL	X	266	44.679	67.988	52.875	0.00	0.00
ATOM	3975	HG11	VAL	X	266	44.142	68.660	52.205	0.00	0.00
ATOM	3976	HG12	VAL	X	266	44.094	67.128	53.203	0.00	0.00
ATOM	3977	HG13	VAL	X	266	44.758	68.594	53.778	0.00	0.00
ATOM	3978	CG2	VAL	X	266	45.764	66.537	51.162	0.00	0.00

ATOM	3979	HG21	VAL	X	266	44.988	67.053	50.597	0.00	0.00
ATOM	3980	HG22	VAL	X	266	45.395	65.567	51.496	0.00	0.00
ATOM	3981	HG23	VAL	X	266	46.564	66.346	50.447	0.00	0.00
ATOM	3982	C	VAL	X	266	46.540	69.539	50.909	0.00	0.00
ATOM	3983	O	VAL	X	266	46.645	69.204	49.782	0.00	0.00
ATOM	3984	N	ALA	X	267	46.311	70.820	51.197	0.00	0.00
ATOM	3985	H	ALA	X	267	46.131	71.072	52.158	0.00	0.00
ATOM	3986	CA	ALA	X	267	46.107	71.872	50.206	0.00	0.00
ATOM	3987	HA	ALA	X	267	45.333	71.495	49.538	0.00	0.00
ATOM	3988	CB	ALA	X	267	45.496	73.065	50.871	0.00	0.00
ATOM	3989	HB1	ALA	X	267	44.747	72.633	51.534	0.00	0.00
ATOM	3990	HB2	ALA	X	267	45.041	73.773	50.178	0.00	0.00
ATOM	3991	HB3	ALA	X	267	46.244	73.604	51.452	0.00	0.00
ATOM	3992	C	ALA	X	267	47.320	72.216	49.393	0.00	0.00
ATOM	3993	O	ALA	X	267	47.303	72.120	48.174	0.00	0.00
ATOM	3994	N	CYX	X	268	48.452	72.373	50.115	0.00	0.00
ATOM	3995	H	CYX	X	268	48.264	72.570	51.087	0.00	0.00
ATOM	3996	CA	CYX	X	268	49.724	72.526	49.475	0.00	0.00
ATOM	3997	HA	CYX	X	268	49.794	73.429	48.868	0.00	0.00
ATOM	3998	CB	CYX	X	268	50.732	72.735	50.566	0.00	0.00
ATOM	3999	HB2	CYX	X	268	50.512	73.674	51.075	0.00	0.00
ATOM	4000	HB3	CYX	X	268	50.692	71.907	51.273	0.00	0.00
ATOM	4001	SG	CYX	X	268	52.531	72.954	50.075	0.00	0.00
ATOM	4002	C	CYX	X	268	50.109	71.275	48.684	0.00	0.00
ATOM	4003	O	CYX	X	268	50.570	71.333	47.529	0.00	0.00
ATOM	4004	N	LEU	X	269	49.795	70.084	49.194	0.00	0.00
ATOM	4005	H	LEU	X	269	49.386	70.058	50.118	0.00	0.00
ATOM	4006	CA	LEU	X	269	50.134	68.783	48.545	0.00	0.00
ATOM	4007	HA	LEU	X	269	51.168	68.769	48.203	0.00	0.00
ATOM	4008	CB	LEU	X	269	49.957	67.763	49.642	0.00	0.00
ATOM	4009	HB2	LEU	X	269	50.314	68.181	50.583	0.00	0.00
ATOM	4010	HB3	LEU	X	269	48.903	67.598	49.863	0.00	0.00
ATOM	4011	CG	LEU	X	269	50.437	66.383	49.346	0.00	0.00
ATOM	4012	HG	LEU	X	269	49.983	65.893	48.484	0.00	0.00
ATOM	4013	CD1	LEU	X	269	51.985	66.372	49.157	0.00	0.00
ATOM	4014	HD11	LEU	X	269	52.313	65.340	49.282	0.00	0.00
ATOM	4015	HD12	LEU	X	269	52.535	67.015	49.844	0.00	0.00
ATOM	4016	HD13	LEU	X	269	52.095	66.680	48.117	0.00	0.00
ATOM	4017	CD2	LEU	X	269	50.069	65.547	50.571	0.00	0.00
ATOM	4018	HD21	LEU	X	269	50.218	64.475	50.447	0.00	0.00
ATOM	4019	HD22	LEU	X	269	50.368	65.944	51.540	0.00	0.00
ATOM	4020	HD23	LEU	X	269	48.992	65.633	50.718	0.00	0.00
ATOM	4021	C	LEU	X	269	49.425	68.513	47.225	0.00	0.00
ATOM	4022	O	LEU	X	269	49.915	67.931	46.278	0.00	0.00
ATOM	4023	N	ARG	X	270	48.288	69.251	47.085	0.00	0.00
ATOM	4024	H	ARG	X	270	47.967	69.899	47.789	0.00	0.00
ATOM	4025	CA	ARG	X	270	47.497	69.336	45.812	0.00	0.00
ATOM	4026	HA	ARG	X	270	47.600	68.411	45.244	0.00	0.00
ATOM	4027	CB	ARG	X	270	46.021	69.476	46.081	0.00	0.00
ATOM	4028	HB2	ARG	X	270	45.795	70.278	46.784	0.00	0.00
ATOM	4029	HB3	ARG	X	270	45.542	69.643	45.116	0.00	0.00
ATOM	4030	CG	ARG	X	270	45.475	68.165	46.674	0.00	0.00
ATOM	4031	HG2	ARG	X	270	45.839	67.395	45.994	0.00	0.00
ATOM	4032	HG3	ARG	X	270	45.862	67.965	47.673	0.00	0.00
ATOM	4033	CD	ARG	X	270	43.912	68.309	46.641	0.00	0.00
ATOM	4034	HD2	ARG	X	270	43.588	69.072	45.934	0.00	0.00
ATOM	4035	HD3	ARG	X	270	43.537	67.335	46.327	0.00	0.00
ATOM	4036	NE	ARG	X	270	43.260	68.616	47.942	0.00	0.00
ATOM	4037	HE	ARG	X	270	43.214	69.608	48.128	0.00	0.00
ATOM	4038	CZ	ARG	X	270	42.764	67.832	48.868	0.00	0.00
ATOM	4039	NH1	ARG	X	270	42.586	66.560	48.655	0.00	0.00
ATOM	4040	HH11	ARG	X	270	42.828	66.143	47.768	0.00	0.00
ATOM	4041	HH12	ARG	X	270	42.234	65.998	49.417	0.00	0.00
ATOM	4042	NH2	ARG	X	270	42.449	68.258	49.977	0.00	0.00
ATOM	4043	HH21	ARG	X	270	42.648	69.213	50.239	0.00	0.00
ATOM	4044	HH22	ARG	X	270	42.044	67.695	50.712	0.00	0.00
ATOM	4045	C	ARG	X	270	48.070	70.470	44.876	0.00	0.00

ATOM	4046	O	ARG	X	270	48.119	70.187	43.667	0.00	0.00
ATOM	4047	N	THR	X	271	48.530	71.596	45.467	0.00	0.00
ATOM	4048	H	THR	X	271	48.607	71.651	46.472	0.00	0.00
ATOM	4049	CA	THR	X	271	49.132	72.768	44.786	0.00	0.00
ATOM	4050	HA	THR	X	271	48.499	73.322	44.092	0.00	0.00
ATOM	4051	CB	THR	X	271	49.467	73.895	45.708	0.00	0.00
ATOM	4052	HB	THR	X	271	50.328	73.594	46.305	0.00	0.00
ATOM	4053	CG2	THR	X	271	49.771	75.307	44.985	0.00	0.00
ATOM	4054	HG21	THR	X	271	50.144	76.123	45.603	0.00	0.00
ATOM	4055	HG22	THR	X	271	48.831	75.644	44.547	0.00	0.00
ATOM	4056	HG23	THR	X	271	50.530	75.119	44.226	0.00	0.00
ATOM	4057	OG1	THR	X	271	48.405	74.221	46.525	0.00	0.00
ATOM	4058	HG1	THR	X	271	48.612	74.823	47.243	0.00	0.00
ATOM	4059	C	THR	X	271	50.411	72.358	43.991	0.00	0.00
ATOM	4060	O	THR	X	271	50.547	72.762	42.833	0.00	0.00
ATOM	4061	N	ARG	X	272	51.244	71.507	44.593	0.00	0.00
ATOM	4062	H	ARG	X	272	51.037	71.259	45.550	0.00	0.00
ATOM	4063	CA	ARG	X	272	52.509	71.035	43.925	0.00	0.00
ATOM	4064	HA	ARG	X	272	53.005	71.874	43.437	0.00	0.00
ATOM	4065	CB	ARG	X	272	53.602	70.583	44.990	0.00	0.00
ATOM	4066	HB2	ARG	X	272	53.184	69.661	45.393	0.00	0.00
ATOM	4067	HB3	ARG	X	272	54.550	70.305	44.528	0.00	0.00
ATOM	4068	CG	ARG	X	272	53.857	71.448	46.216	0.00	0.00
ATOM	4069	HG2	ARG	X	272	52.912	71.504	46.756	0.00	0.00
ATOM	4070	HG3	ARG	X	272	54.625	71.062	46.887	0.00	0.00
ATOM	4071	CD	ARG	X	272	54.393	72.835	45.714	0.00	0.00
ATOM	4072	HD2	ARG	X	272	55.435	72.728	45.410	0.00	0.00
ATOM	4073	HD3	ARG	X	272	53.713	73.057	44.892	0.00	0.00
ATOM	4074	NE	ARG	X	272	54.156	73.875	46.746	0.00	0.00
ATOM	4075	HE	ARG	X	272	53.262	74.341	46.792	0.00	0.00
ATOM	4076	CZ	ARG	X	272	55.167	74.620	47.288	0.00	0.00
ATOM	4077	NH1	ARG	X	272	56.429	74.271	47.160	0.00	0.00
ATOM	4078	HH11	ARG	X	272	56.551	73.321	46.842	0.00	0.00
ATOM	4079	HH12	ARG	X	272	57.219	74.846	47.417	0.00	0.00
ATOM	4080	NH2	ARG	X	272	54.873	75.712	47.996	0.00	0.00
ATOM	4081	HH21	ARG	X	272	53.880	75.838	48.125	0.00	0.00
ATOM	4082	HH22	ARG	X	272	55.609	76.380	48.180	0.00	0.00
ATOM	4083	C	ARG	X	272	52.219	70.024	42.805	0.00	0.00
ATOM	4084	O	ARG	X	272	51.211	69.347	42.877	0.00	0.00
ATOM	4085	N	PRO	X	273	53.181	69.840	41.842	0.00	0.00
ATOM	4086	CD	PRO	X	273	54.224	70.808	41.495	0.00	0.00
ATOM	4087	HD2	PRO	X	273	55.138	70.557	42.034	0.00	0.00
ATOM	4088	HD3	PRO	X	273	53.911	71.818	41.759	0.00	0.00
ATOM	4089	CG	PRO	X	273	54.459	70.668	39.982	0.00	0.00
ATOM	4090	HG2	PRO	X	273	55.521	70.809	39.778	0.00	0.00
ATOM	4091	HG3	PRO	X	273	53.825	71.365	39.435	0.00	0.00
ATOM	4092	CB	PRO	X	273	54.105	69.237	39.716	0.00	0.00
ATOM	4093	HB2	PRO	X	273	54.999	68.615	39.764	0.00	0.00
ATOM	4094	HB3	PRO	X	273	53.679	69.136	38.718	0.00	0.00
ATOM	4095	CA	PRO	X	273	53.081	68.895	40.774	0.00	0.00
ATOM	4096	HA	PRO	X	273	52.092	68.892	40.315	0.00	0.00
ATOM	4097	C	PRO	X	273	53.166	67.424	41.297	0.00	0.00
ATOM	4098	O	PRO	X	273	54.045	67.237	42.172	0.00	0.00
ATOM	4099	N	ALA	X	274	52.335	66.515	40.722	0.00	0.00
ATOM	4100	H	ALA	X	274	51.655	66.813	40.036	0.00	0.00
ATOM	4101	CA	ALA	X	274	52.371	65.140	41.108	0.00	0.00
ATOM	4102	HA	ALA	X	274	52.114	65.097	42.167	0.00	0.00
ATOM	4103	CB	ALA	X	274	51.141	64.521	40.293	0.00	0.00
ATOM	4104	HB1	ALA	X	274	50.165	64.964	40.491	0.00	0.00
ATOM	4105	HB2	ALA	X	274	51.087	63.452	40.496	0.00	0.00
ATOM	4106	HB3	ALA	X	274	51.430	64.583	39.244	0.00	0.00
ATOM	4107	C	ALA	X	274	53.751	64.479	40.880	0.00	0.00
ATOM	4108	O	ALA	X	274	54.105	63.603	41.595	0.00	0.00
ATOM	4109	N	GLN	X	275	54.530	65.030	39.866	0.00	0.00
ATOM	4110	H	GLN	X	275	54.069	65.645	39.211	0.00	0.00
ATOM	4111	CA	GLN	X	275	55.785	64.482	39.523	0.00	0.00
ATOM	4112	HA	GLN	X	275	55.598	63.420	39.365	0.00	0.00

ATOM	4113	CB	GLN	X	275	56.249	65.214	38.287	0.00	0.00
ATOM	4114	HB2	GLN	X	275	55.465	65.168	37.530	0.00	0.00
ATOM	4115	HB3	GLN	X	275	56.506	66.237	38.561	0.00	0.00
ATOM	4116	CG	GLN	X	275	57.463	64.622	37.566	0.00	0.00
ATOM	4117	HG2	GLN	X	275	58.312	64.630	38.250	0.00	0.00
ATOM	4118	HG3	GLN	X	275	57.263	63.561	37.413	0.00	0.00
ATOM	4119	CD	GLN	X	275	57.676	65.361	36.274	0.00	0.00
ATOM	4120	OE1	GLN	X	275	58.387	66.392	36.333	0.00	0.00
ATOM	4121	NE2	GLN	X	275	57.241	64.919	35.123	0.00	0.00
ATOM	4122	HE21	GLN	X	275	57.397	65.484	34.301	0.00	0.00
ATOM	4123	HE22	GLN	X	275	56.608	64.145	34.976	0.00	0.00
ATOM	4124	C	GLN	X	275	56.749	64.623	40.732	0.00	0.00
ATOM	4125	O	GLN	X	275	57.443	63.633	40.940	0.00	0.00
ATOM	4126	N	VAL	X	276	56.698	65.750	41.464	0.00	0.00
ATOM	4127	H	VAL	X	276	56.096	66.493	41.142	0.00	0.00
ATOM	4128	CA	VAL	X	276	57.398	65.986	42.711	0.00	0.00
ATOM	4129	HA	VAL	X	276	58.464	65.919	42.492	0.00	0.00
ATOM	4130	CB	VAL	X	276	57.076	67.314	43.390	0.00	0.00
ATOM	4131	HB	VAL	X	276	56.006	67.384	43.586	0.00	0.00
ATOM	4132	CG1	VAL	X	276	57.860	67.556	44.670	0.00	0.00
ATOM	4133	HG11	VAL	X	276	57.612	68.552	45.038	0.00	0.00
ATOM	4134	HG12	VAL	X	276	57.499	66.841	45.409	0.00	0.00
ATOM	4135	HG13	VAL	X	276	58.930	67.423	44.511	0.00	0.00
ATOM	4136	CG2	VAL	X	276	57.527	68.438	42.452	0.00	0.00
ATOM	4137	HG21	VAL	X	276	58.576	68.725	42.528	0.00	0.00
ATOM	4138	HG22	VAL	X	276	56.852	69.263	42.681	0.00	0.00
ATOM	4139	HG23	VAL	X	276	57.277	68.176	41.424	0.00	0.00
ATOM	4140	C	VAL	X	276	57.131	64.879	43.776	0.00	0.00
ATOM	4141	O	VAL	X	276	58.037	64.154	44.154	0.00	0.00
ATOM	4142	N	LEU	X	277	55.837	64.659	44.062	0.00	0.00
ATOM	4143	H	LEU	X	277	55.290	65.335	43.549	0.00	0.00
ATOM	4144	CA	LEU	X	277	55.180	63.712	44.962	0.00	0.00
ATOM	4145	HA	LEU	X	277	55.367	64.082	45.970	0.00	0.00
ATOM	4146	CB	LEU	X	277	53.612	63.672	44.829	0.00	0.00
ATOM	4147	HB2	LEU	X	277	53.307	63.736	43.784	0.00	0.00
ATOM	4148	HB3	LEU	X	277	53.220	62.798	45.348	0.00	0.00
ATOM	4149	CG	LEU	X	277	52.841	64.864	45.532	0.00	0.00
ATOM	4150	HG	LEU	X	277	53.266	64.828	46.535	0.00	0.00
ATOM	4151	CD1	LEU	X	277	53.156	66.302	45.077	0.00	0.00
ATOM	4152	HD11	LEU	X	277	52.513	67.014	45.595	0.00	0.00
ATOM	4153	HD12	LEU	X	277	52.991	66.546	44.028	0.00	0.00
ATOM	4154	HD13	LEU	X	277	54.147	66.624	45.397	0.00	0.00
ATOM	4155	CD2	LEU	X	277	51.256	64.816	45.492	0.00	0.00
ATOM	4156	HD21	LEU	X	277	50.973	64.911	44.444	0.00	0.00
ATOM	4157	HD22	LEU	X	277	50.918	63.880	45.937	0.00	0.00
ATOM	4158	HD23	LEU	X	277	50.823	65.622	46.084	0.00	0.00
ATOM	4159	C	LEU	X	277	55.726	62.278	44.781	0.00	0.00
ATOM	4160	O	LEU	X	277	56.290	61.706	45.688	0.00	0.00
ATOM	4161	N	VAL	X	278	55.328	61.684	43.700	0.00	0.00
ATOM	4162	H	VAL	X	278	54.951	62.256	42.958	0.00	0.00
ATOM	4163	CA	VAL	X	278	55.557	60.273	43.403	0.00	0.00
ATOM	4164	HA	VAL	X	278	55.081	59.648	44.159	0.00	0.00
ATOM	4165	CB	VAL	X	278	54.814	59.841	42.179	0.00	0.00
ATOM	4166	HB	VAL	X	278	54.900	58.758	42.091	0.00	0.00
ATOM	4167	CG1	VAL	X	278	53.279	60.187	42.405	0.00	0.00
ATOM	4168	HG11	VAL	X	278	53.027	61.217	42.152	0.00	0.00
ATOM	4169	HG12	VAL	X	278	52.716	59.454	41.828	0.00	0.00
ATOM	4170	HG13	VAL	X	278	52.995	60.151	43.457	0.00	0.00
ATOM	4171	CG2	VAL	X	278	55.281	60.407	40.838	0.00	0.00
ATOM	4172	HG21	VAL	X	278	56.225	59.923	40.587	0.00	0.00
ATOM	4173	HG22	VAL	X	278	55.327	61.496	40.853	0.00	0.00
ATOM	4174	HG23	VAL	X	278	54.606	60.019	40.075	0.00	0.00
ATOM	4175	C	VAL	X	278	57.039	59.905	43.335	0.00	0.00
ATOM	4176	O	VAL	X	278	57.433	58.940	43.965	0.00	0.00
ATOM	4177	N	ASN	X	279	57.891	60.834	42.859	0.00	0.00
ATOM	4178	H	ASN	X	279	57.502	61.707	42.533	0.00	0.00
ATOM	4179	CA	ASN	X	279	59.352	60.592	42.864	0.00	0.00

ATOM	4180	HA	ASN	X	279	59.533	59.557	42.574	0.00	0.00
ATOM	4181	CB	ASN	X	279	60.012	61.497	41.840	0.00	0.00
ATOM	4182	HB2	ASN	X	279	59.431	62.413	41.736	0.00	0.00
ATOM	4183	HB3	ASN	X	279	61.050	61.602	42.156	0.00	0.00
ATOM	4184	CG	ASN	X	279	59.954	60.813	40.414	0.00	0.00
ATOM	4185	OD1	ASN	X	279	60.731	59.898	40.189	0.00	0.00
ATOM	4186	ND2	ASN	X	279	59.013	61.232	39.630	0.00	0.00
ATOM	4187	HD21	ASN	X	279	58.878	60.874	38.695	0.00	0.00
ATOM	4188	HD22	ASN	X	279	58.382	61.968	39.913	0.00	0.00
ATOM	4189	C	ASN	X	279	59.971	60.749	44.327	0.00	0.00
ATOM	4190	O	ASN	X	279	61.020	60.233	44.579	0.00	0.00
ATOM	4191	N	HIE	X	280	59.302	61.481	45.233	0.00	0.00
ATOM	4192	H	HIE	X	280	58.481	62.017	44.992	0.00	0.00
ATOM	4193	CA	HIE	X	280	59.751	61.575	46.630	0.00	0.00
ATOM	4194	HA	HIE	X	280	60.832	61.436	46.652	0.00	0.00
ATOM	4195	CB	HIE	X	280	59.332	62.907	47.255	0.00	0.00
ATOM	4196	HB2	HIE	X	280	58.380	63.223	46.829	0.00	0.00
ATOM	4197	HB3	HIE	X	280	59.315	62.858	48.344	0.00	0.00
ATOM	4198	CG	HIE	X	280	60.225	64.071	46.990	0.00	0.00
ATOM	4199	ND1	HIE	X	280	59.806	65.275	46.352	0.00	0.00
ATOM	4200	CE1	HIE	X	280	60.853	66.100	46.363	0.00	0.00
ATOM	4201	HE1	HIE	X	280	61.000	67.050	45.871	0.00	0.00
ATOM	4202	NE2	HIE	X	280	61.942	65.481	46.974	0.00	0.00
ATOM	4203	HE2	HIE	X	280	62.867	65.886	47.015	0.00	0.00
ATOM	4204	CD2	HIE	X	280	61.523	64.180	47.328	0.00	0.00
ATOM	4205	HD2	HIE	X	280	62.179	63.414	47.715	0.00	0.00
ATOM	4206	C	HIE	X	280	59.151	60.429	47.423	0.00	0.00
ATOM	4207	O	HIE	X	280	59.474	60.235	48.604	0.00	0.00
ATOM	4208	N	GLU	X	281	58.136	59.703	46.898	0.00	0.00
ATOM	4209	H	GLU	X	281	57.795	59.947	45.979	0.00	0.00
ATOM	4210	CA	GLU	X	281	57.375	58.673	47.601	0.00	0.00
ATOM	4211	HA	GLU	X	281	57.046	59.021	48.580	0.00	0.00
ATOM	4212	CB	GLU	X	281	56.187	58.284	46.790	0.00	0.00
ATOM	4213	HB2	GLU	X	281	55.858	58.921	45.970	0.00	0.00
ATOM	4214	HB3	GLU	X	281	56.548	57.486	46.141	0.00	0.00
ATOM	4215	CG	GLU	X	281	54.998	57.780	47.662	0.00	0.00
ATOM	4216	HG2	GLU	X	281	55.485	57.177	48.428	0.00	0.00
ATOM	4217	HG3	GLU	X	281	54.390	58.556	48.128	0.00	0.00
ATOM	4218	CD	GLU	X	281	54.145	56.878	46.765	0.00	0.00
ATOM	4219	OE1	GLU	X	281	53.315	57.414	46.007	0.00	0.00
ATOM	4220	OE2	GLU	X	281	54.174	55.679	46.950	0.00	0.00
ATOM	4221	C	GLU	X	281	58.255	57.399	47.808	0.00	0.00
ATOM	4222	O	GLU	X	281	58.079	56.848	48.863	0.00	0.00
ATOM	4223	N	TRP	X	282	59.252	57.124	46.965	0.00	0.00
ATOM	4224	H	TRP	X	282	59.441	57.783	46.224	0.00	0.00
ATOM	4225	CA	TRP	X	282	60.334	56.210	47.299	0.00	0.00
ATOM	4226	HA	TRP	X	282	60.117	55.142	47.315	0.00	0.00
ATOM	4227	CB	TRP	X	282	61.441	56.431	46.241	0.00	0.00
ATOM	4228	HB2	TRP	X	282	60.965	56.286	45.271	0.00	0.00
ATOM	4229	HB3	TRP	X	282	61.736	57.480	46.250	0.00	0.00
ATOM	4230	CG	TRP	X	282	62.683	55.480	46.382	0.00	0.00
ATOM	4231	CD1	TRP	X	282	62.646	54.138	46.248	0.00	0.00
ATOM	4232	HD1	TRP	X	282	61.720	53.593	46.132	0.00	0.00
ATOM	4233	NE1	TRP	X	282	63.861	53.542	46.499	0.00	0.00
ATOM	4234	HE1	TRP	X	282	64.010	52.549	46.606	0.00	0.00
ATOM	4235	CE2	TRP	X	282	64.832	54.514	46.616	0.00	0.00
ATOM	4236	CZ2	TRP	X	282	66.216	54.350	46.683	0.00	0.00
ATOM	4237	HZ2	TRP	X	282	66.673	53.373	46.740	0.00	0.00
ATOM	4238	CH2	TRP	X	282	66.962	55.525	46.768	0.00	0.00
ATOM	4239	HH2	TRP	X	282	68.037	55.424	46.754	0.00	0.00
ATOM	4240	CZ3	TRP	X	282	66.353	56.785	46.628	0.00	0.00
ATOM	4241	HZ3	TRP	X	282	66.977	57.653	46.480	0.00	0.00
ATOM	4242	CE3	TRP	X	282	64.902	56.893	46.617	0.00	0.00
ATOM	4243	HE3	TRP	X	282	64.535	57.889	46.417	0.00	0.00
ATOM	4244	CD2	TRP	X	282	64.104	55.786	46.584	0.00	0.00
ATOM	4245	C	TRP	X	282	60.950	56.500	48.687	0.00	0.00
ATOM	4246	O	TRP	X	282	61.184	55.605	49.456	0.00	0.00

ATOM	4247	N	HIE	X	283	61.163	57.741	49.018	0.00	0.00
ATOM	4248	H	HIE	X	283	60.801	58.528	48.498	0.00	0.00
ATOM	4249	CA	HIE	X	283	61.693	58.081	50.431	0.00	0.00
ATOM	4250	HA	HIE	X	283	62.480	57.367	50.672	0.00	0.00
ATOM	4251	CB	HIE	X	283	62.132	59.579	50.399	0.00	0.00
ATOM	4252	HB2	HIE	X	283	61.217	60.160	50.282	0.00	0.00
ATOM	4253	HB3	HIE	X	283	62.511	59.739	51.409	0.00	0.00
ATOM	4254	CG	HIE	X	283	63.169	59.863	49.342	0.00	0.00
ATOM	4255	ND1	HIE	X	283	62.946	60.526	48.126	0.00	0.00
ATOM	4256	CE1	HIE	X	283	64.145	60.617	47.558	0.00	0.00
ATOM	4257	HE1	HIE	X	283	64.302	61.064	46.588	0.00	0.00
ATOM	4258	NE2	HIE	X	283	65.114	60.075	48.300	0.00	0.00
ATOM	4259	HE2	HIE	X	283	66.107	60.182	48.155	0.00	0.00
ATOM	4260	CD2	HIE	X	283	64.467	59.703	49.456	0.00	0.00
ATOM	4261	HD2	HIE	X	283	65.086	59.459	50.308	0.00	0.00
ATOM	4262	C	HIE	X	283	60.620	57.978	51.500	0.00	0.00
ATOM	4263	O	HIE	X	283	60.915	58.242	52.638	0.00	0.00
ATOM	4264	N	VAL	X	284	59.445	57.600	51.071	0.00	0.00
ATOM	4265	H	VAL	X	284	59.202	57.617	50.090	0.00	0.00
ATOM	4266	CA	VAL	X	284	58.344	57.228	51.973	0.00	0.00
ATOM	4267	HA	VAL	X	284	58.562	57.345	53.035	0.00	0.00
ATOM	4268	CB	VAL	X	284	57.084	58.084	51.684	0.00	0.00
ATOM	4269	HB	VAL	X	284	56.755	57.837	50.675	0.00	0.00
ATOM	4270	CG1	VAL	X	284	55.907	57.914	52.689	0.00	0.00
ATOM	4271	HG11	VAL	X	284	55.249	58.783	52.691	0.00	0.00
ATOM	4272	HG12	VAL	X	284	55.374	56.999	52.427	0.00	0.00
ATOM	4273	HG13	VAL	X	284	56.202	57.928	53.738	0.00	0.00
ATOM	4274	CG2	VAL	X	284	57.385	59.543	51.876	0.00	0.00
ATOM	4275	HG21	VAL	X	284	57.618	59.865	52.891	0.00	0.00
ATOM	4276	HG22	VAL	X	284	56.572	60.187	51.540	0.00	0.00
ATOM	4277	HG23	VAL	X	284	58.200	59.809	51.204	0.00	0.00
ATOM	4278	C	VAL	X	284	58.036	55.698	51.898	0.00	0.00
ATOM	4279	O	VAL	X	284	57.232	55.279	52.657	0.00	0.00
ATOM	4280	N	LEU	X	285	58.763	54.887	51.132	0.00	0.00
ATOM	4281	H	LEU	X	285	59.367	55.325	50.451	0.00	0.00
ATOM	4282	CA	LEU	X	285	58.734	53.425	51.352	0.00	0.00
ATOM	4283	HA	LEU	X	285	57.689	53.119	51.295	0.00	0.00
ATOM	4284	CB	LEU	X	285	59.312	52.781	50.109	0.00	0.00
ATOM	4285	HB2	LEU	X	285	58.717	53.211	49.303	0.00	0.00
ATOM	4286	HB3	LEU	X	285	60.335	53.135	49.987	0.00	0.00
ATOM	4287	CG	LEU	X	285	59.319	51.243	50.011	0.00	0.00
ATOM	4288	HG	LEU	X	285	58.353	50.856	50.337	0.00	0.00
ATOM	4289	CD1	LEU	X	285	59.460	50.872	48.529	0.00	0.00
ATOM	4290	HD11	LEU	X	285	60.429	51.231	48.181	0.00	0.00
ATOM	4291	HD12	LEU	X	285	58.611	51.279	47.980	0.00	0.00
ATOM	4292	HD13	LEU	X	285	59.565	49.792	48.429	0.00	0.00
ATOM	4293	CD2	LEU	X	285	60.559	50.786	50.805	0.00	0.00
ATOM	4294	HD21	LEU	X	285	60.559	49.714	51.000	0.00	0.00
ATOM	4295	HD22	LEU	X	285	61.491	51.051	50.306	0.00	0.00
ATOM	4296	HD23	LEU	X	285	60.596	51.174	51.823	0.00	0.00
ATOM	4297	C	LEU	X	285	59.445	53.129	52.728	0.00	0.00
ATOM	4298	O	LEU	X	285	60.561	53.529	52.839	0.00	0.00
ATOM	4299	N	PRO	X	286	58.828	52.352	53.621	0.00	0.00
ATOM	4300	CD	PRO	X	286	57.651	51.545	53.377	0.00	0.00
ATOM	4301	HD2	PRO	X	286	57.725	51.022	52.423	0.00	0.00
ATOM	4302	HD3	PRO	X	286	56.762	52.170	53.295	0.00	0.00
ATOM	4303	CG	PRO	X	286	57.394	50.582	54.548	0.00	0.00
ATOM	4304	HG2	PRO	X	286	57.884	49.664	54.222	0.00	0.00
ATOM	4305	HG3	PRO	X	286	56.339	50.521	54.818	0.00	0.00
ATOM	4306	CB	PRO	X	286	58.230	51.221	55.604	0.00	0.00
ATOM	4307	HB2	PRO	X	286	58.614	50.577	56.396	0.00	0.00
ATOM	4308	HB3	PRO	X	286	57.516	51.916	56.044	0.00	0.00
ATOM	4309	CA	PRO	X	286	59.256	52.065	54.923	0.00	0.00
ATOM	4310	HA	PRO	X	286	59.371	52.986	55.495	0.00	0.00
ATOM	4311	C	PRO	X	286	60.565	51.266	54.889	0.00	0.00
ATOM	4312	O	PRO	X	286	60.718	50.207	54.292	0.00	0.00
ATOM	4313	N	GLN	X	287	61.506	51.795	55.625	0.00	0.00

ATOM	4314	H	GLN	X	287	61.384	52.678	56.099	0.00	0.00
ATOM	4315	CA	GLN	X	287	62.821	51.093	55.813	0.00	0.00
ATOM	4316	HA	GLN	X	287	62.998	50.605	54.855	0.00	0.00
ATOM	4317	CB	GLN	X	287	63.969	52.114	55.970	0.00	0.00
ATOM	4318	HB2	GLN	X	287	63.838	52.715	56.869	0.00	0.00
ATOM	4319	HB3	GLN	X	287	64.837	51.526	56.270	0.00	0.00
ATOM	4320	CG	GLN	X	287	64.337	52.914	54.749	0.00	0.00
ATOM	4321	HG2	GLN	X	287	64.732	52.202	54.024	0.00	0.00
ATOM	4322	HG3	GLN	X	287	63.451	53.365	54.302	0.00	0.00
ATOM	4323	CD	GLN	X	287	65.377	54.110	54.803	0.00	0.00
ATOM	4324	OE1	GLN	X	287	65.118	55.025	55.486	0.00	0.00
ATOM	4325	NE2	GLN	X	287	66.450	54.052	54.040	0.00	0.00
ATOM	4326	HE21	GLN	X	287	66.859	54.970	53.943	0.00	0.00
ATOM	4327	HE22	GLN	X	287	66.674	53.203	53.540	0.00	0.00
ATOM	4328	C	GLN	X	287	62.785	50.085	56.965	0.00	0.00
ATOM	4329	O	GLN	X	287	61.921	50.217	57.840	0.00	0.00
ATOM	4330	N	GLU	X	288	63.701	49.039	56.852	0.00	0.00
ATOM	4331	H	GLU	X	288	64.209	48.892	55.992	0.00	0.00
ATOM	4332	CA	GLU	X	288	64.032	48.052	57.863	0.00	0.00
ATOM	4333	HA	GLU	X	288	65.083	47.831	57.681	0.00	0.00
ATOM	4334	CB	GLU	X	288	64.091	48.635	59.329	0.00	0.00
ATOM	4335	HB2	GLU	X	288	63.138	49.052	59.653	0.00	0.00
ATOM	4336	HB3	GLU	X	288	64.237	47.901	60.122	0.00	0.00
ATOM	4337	CG	GLU	X	288	65.228	49.697	59.424	0.00	0.00
ATOM	4338	HG2	GLU	X	288	66.169	49.266	59.082	0.00	0.00
ATOM	4339	HG3	GLU	X	288	65.010	50.502	58.723	0.00	0.00
ATOM	4340	CD	GLU	X	288	65.521	50.362	60.795	0.00	0.00
ATOM	4341	OE1	GLU	X	288	65.147	51.534	61.030	0.00	0.00
ATOM	4342	OE2	GLU	X	288	66.004	49.695	61.742	0.00	0.00
ATOM	4343	C	GLU	X	288	63.159	46.783	57.869	0.00	0.00
ATOM	4344	O	GLU	X	288	62.920	46.060	58.806	0.00	0.00
ATOM	4345	N	SER	X	289	62.594	46.569	56.667	0.00	0.00
ATOM	4346	H	SER	X	289	62.878	47.181	55.915	0.00	0.00
ATOM	4347	CA	SER	X	289	61.732	45.441	56.278	0.00	0.00
ATOM	4348	HA	SER	X	289	62.049	44.555	56.828	0.00	0.00
ATOM	4349	CB	SER	X	289	60.248	45.805	56.632	0.00	0.00
ATOM	4350	HB2	SER	X	289	59.685	45.058	56.073	0.00	0.00
ATOM	4351	HB3	SER	X	289	60.032	45.660	57.690	0.00	0.00
ATOM	4352	OG	SER	X	289	60.050	47.063	56.106	0.00	0.00
ATOM	4353	HG	SER	X	289	60.170	46.967	55.159	0.00	0.00
ATOM	4354	C	SER	X	289	61.919	44.997	54.800	0.00	0.00
ATOM	4355	O	SER	X	289	62.403	45.722	53.994	0.00	0.00
ATOM	4356	N	VAL	X	290	61.390	43.813	54.496	0.00	0.00
ATOM	4357	H	VAL	X	290	61.088	43.219	55.255	0.00	0.00
ATOM	4358	CA	VAL	X	290	61.202	43.394	53.077	0.00	0.00
ATOM	4359	HA	VAL	X	290	61.299	44.244	52.402	0.00	0.00
ATOM	4360	CB	VAL	X	290	62.087	42.287	52.443	0.00	0.00
ATOM	4361	HB	VAL	X	290	61.755	42.063	51.429	0.00	0.00
ATOM	4362	CG1	VAL	X	290	63.471	42.876	52.213	0.00	0.00
ATOM	4363	HG11	VAL	X	290	63.870	43.158	53.188	0.00	0.00
ATOM	4364	HG12	VAL	X	290	64.095	42.076	51.816	0.00	0.00
ATOM	4365	HG13	VAL	X	290	63.323	43.778	51.619	0.00	0.00
ATOM	4366	CG2	VAL	X	290	62.229	40.933	53.248	0.00	0.00
ATOM	4367	HG21	VAL	X	290	62.664	41.209	54.208	0.00	0.00
ATOM	4368	HG22	VAL	X	290	63.002	40.338	52.763	0.00	0.00
ATOM	4369	HG23	VAL	X	290	61.344	40.307	53.361	0.00	0.00
ATOM	4370	C	VAL	X	290	59.737	42.887	52.974	0.00	0.00
ATOM	4371	O	VAL	X	290	59.268	42.398	54.006	0.00	0.00
ATOM	4372	N	PHE	X	291	59.104	42.972	51.782	0.00	0.00
ATOM	4373	H	PHE	X	291	59.611	43.321	50.981	0.00	0.00
ATOM	4374	CA	PHE	X	291	57.705	42.694	51.671	0.00	0.00
ATOM	4375	HA	PHE	X	291	57.368	42.913	50.657	0.00	0.00
ATOM	4376	CB	PHE	X	291	57.553	41.183	51.912	0.00	0.00
ATOM	4377	HB2	PHE	X	291	58.416	40.771	51.389	0.00	0.00
ATOM	4378	HB3	PHE	X	291	57.613	40.925	52.969	0.00	0.00
ATOM	4379	CG	PHE	X	291	56.430	40.435	51.267	0.00	0.00
ATOM	4380	CD1	PHE	X	291	55.163	40.979	51.022	0.00	0.00

ATOM	4381	HD1	PHE	X	291	54.919	41.969	51.379	0.00	0.00
ATOM	4382	CE1	PHE	X	291	54.207	40.233	50.298	0.00	0.00
ATOM	4383	HE1	PHE	X	291	53.274	40.705	50.028	0.00	0.00
ATOM	4384	CZ	PHE	X	291	54.468	38.931	49.878	0.00	0.00
ATOM	4385	HZ	PHE	X	291	53.833	38.367	49.211	0.00	0.00
ATOM	4386	CE2	PHE	X	291	55.666	38.321	50.185	0.00	0.00
ATOM	4387	HE2	PHE	X	291	55.908	37.335	49.819	0.00	0.00
ATOM	4388	CD2	PHE	X	291	56.696	39.144	50.768	0.00	0.00
ATOM	4389	HD2	PHE	X	291	57.626	38.621	50.936	0.00	0.00
ATOM	4390	C	PHE	X	291	56.761	43.591	52.515	0.00	0.00
ATOM	4391	O	PHE	X	291	56.077	43.178	53.449	0.00	0.00
ATOM	4392	N	ARG	X	292	56.756	44.879	52.192	0.00	0.00
ATOM	4393	H	ARG	X	292	57.324	45.125	51.394	0.00	0.00
ATOM	4394	CA	ARG	X	292	56.095	46.020	52.887	0.00	0.00
ATOM	4395	HA	ARG	X	292	55.048	45.762	53.046	0.00	0.00
ATOM	4396	CB	ARG	X	292	56.634	46.132	54.378	0.00	0.00
ATOM	4397	HB2	ARG	X	292	57.248	45.247	54.545	0.00	0.00
ATOM	4398	HB3	ARG	X	292	57.313	46.962	54.576	0.00	0.00
ATOM	4399	CG	ARG	X	292	55.441	46.186	55.335	0.00	0.00
ATOM	4400	HG2	ARG	X	292	55.106	47.223	55.294	0.00	0.00
ATOM	4401	HG3	ARG	X	292	54.609	45.568	55.000	0.00	0.00
ATOM	4402	CD	ARG	X	292	56.006	45.916	56.803	0.00	0.00
ATOM	4403	HD2	ARG	X	292	56.145	44.840	56.906	0.00	0.00
ATOM	4404	HD3	ARG	X	292	56.982	46.365	56.992	0.00	0.00
ATOM	4405	NE	ARG	X	292	55.068	46.330	57.824	0.00	0.00
ATOM	4406	HE	ARG	X	292	55.144	47.232	58.272	0.00	0.00
ATOM	4407	CZ	ARG	X	292	54.068	45.581	58.267	0.00	0.00
ATOM	4408	NH1	ARG	X	292	53.609	44.524	57.688	0.00	0.00
ATOM	4409	HH11	ARG	X	292	54.081	44.148	56.878	0.00	0.00
ATOM	4410	HH12	ARG	X	292	52.879	43.967	58.109	0.00	0.00
ATOM	4411	NH2	ARG	X	292	53.545	45.881	59.419	0.00	0.00
ATOM	4412	HH21	ARG	X	292	53.612	46.765	59.903	0.00	0.00
ATOM	4413	HH22	ARG	X	292	52.900	45.304	59.939	0.00	0.00
ATOM	4414	C	ARG	X	292	56.336	47.340	52.106	0.00	0.00
ATOM	4415	O	ARG	X	292	57.428	47.428	51.516	0.00	0.00
ATOM	4416	N	PHE	X	293	55.413	48.358	52.052	0.00	0.00
ATOM	4417	H	PHE	X	293	54.597	48.153	52.611	0.00	0.00
ATOM	4418	CA	PHE	X	293	55.310	49.431	51.045	0.00	0.00
ATOM	4419	HA	PHE	X	293	56.215	49.618	50.466	0.00	0.00
ATOM	4420	CB	PHE	X	293	54.224	48.988	50.014	0.00	0.00
ATOM	4421	HB2	PHE	X	293	53.226	49.003	50.451	0.00	0.00
ATOM	4422	HB3	PHE	X	293	54.253	49.628	49.132	0.00	0.00
ATOM	4423	CG	PHE	X	293	54.388	47.554	49.575	0.00	0.00
ATOM	4424	CD1	PHE	X	293	55.582	47.171	48.947	0.00	0.00
ATOM	4425	HD1	PHE	X	293	56.413	47.848	48.814	0.00	0.00
ATOM	4426	CE1	PHE	X	293	55.805	45.806	48.738	0.00	0.00
ATOM	4427	HE1	PHE	X	293	56.724	45.422	48.322	0.00	0.00
ATOM	4428	CZ	PHE	X	293	54.914	44.818	49.247	0.00	0.00
ATOM	4429	HZ	PHE	X	293	55.149	43.782	49.054	0.00	0.00
ATOM	4430	CE2	PHE	X	293	53.708	45.210	49.816	0.00	0.00
ATOM	4431	HE2	PHE	X	293	52.981	44.467	50.109	0.00	0.00
ATOM	4432	CD2	PHE	X	293	53.421	46.581	49.916	0.00	0.00
ATOM	4433	HD2	PHE	X	293	52.484	46.920	50.331	0.00	0.00
ATOM	4434	C	PHE	X	293	54.899	50.746	51.654	0.00	0.00
ATOM	4435	O	PHE	X	293	54.596	50.824	52.804	0.00	0.00
ATOM	4436	N	SER	X	294	54.886	51.800	50.807	0.00	0.00
ATOM	4437	H	SER	X	294	55.133	51.468	49.885	0.00	0.00
ATOM	4438	CA	SER	X	294	54.723	53.249	51.236	0.00	0.00
ATOM	4439	HA	SER	X	294	55.334	53.351	52.133	0.00	0.00
ATOM	4440	CB	SER	X	294	55.245	54.152	50.115	0.00	0.00
ATOM	4441	HB2	SER	X	294	55.107	55.197	50.391	0.00	0.00
ATOM	4442	HB3	SER	X	294	56.304	54.034	49.887	0.00	0.00
ATOM	4443	OG	SER	X	294	54.597	53.881	48.902	0.00	0.00
ATOM	4444	HG	SER	X	294	54.608	54.595	48.260	0.00	0.00
ATOM	4445	C	SER	X	294	53.319	53.692	51.667	0.00	0.00
ATOM	4446	O	SER	X	294	53.094	53.976	52.826	0.00	0.00
ATOM	4447	N	PHE	X	295	52.309	53.601	50.775	0.00	0.00

ATOM	4448	H	PHE	X	295	52.471	53.282	49.830	0.00	0.00
ATOM	4449	CA	PHE	X	295	50.908	53.858	51.076	0.00	0.00
ATOM	4450	HA	PHE	X	295	50.734	54.002	52.142	0.00	0.00
ATOM	4451	CB	PHE	X	295	50.402	55.116	50.312	0.00	0.00
ATOM	4452	HB2	PHE	X	295	50.459	54.985	49.232	0.00	0.00
ATOM	4453	HB3	PHE	X	295	49.378	55.282	50.646	0.00	0.00
ATOM	4454	CG	PHE	X	295	51.076	56.372	50.773	0.00	0.00
ATOM	4455	CD1	PHE	X	295	50.681	57.142	51.908	0.00	0.00
ATOM	4456	HD1	PHE	X	295	49.739	56.905	52.380	0.00	0.00
ATOM	4457	CE1	PHE	X	295	51.398	58.271	52.364	0.00	0.00
ATOM	4458	HE1	PHE	X	295	51.079	58.767	53.269	0.00	0.00
ATOM	4459	CZ	PHE	X	295	52.570	58.625	51.764	0.00	0.00
ATOM	4460	HZ	PHE	X	295	53.225	59.400	52.135	0.00	0.00
ATOM	4461	CE2	PHE	X	295	52.993	57.811	50.722	0.00	0.00
ATOM	4462	HE2	PHE	X	295	53.931	58.059	50.247	0.00	0.00
ATOM	4463	CD2	PHE	X	295	52.298	56.759	50.202	0.00	0.00
ATOM	4464	HD2	PHE	X	295	52.851	56.287	49.403	0.00	0.00
ATOM	4465	C	PHE	X	295	50.161	52.638	50.593	0.00	0.00
ATOM	4466	O	PHE	X	295	50.559	52.005	49.627	0.00	0.00
ATOM	4467	N	VAL	X	296	49.013	52.384	51.198	0.00	0.00
ATOM	4468	H	VAL	X	296	48.804	52.982	51.985	0.00	0.00
ATOM	4469	CA	VAL	X	296	48.344	51.105	51.228	0.00	0.00
ATOM	4470	HA	VAL	X	296	48.227	50.769	50.198	0.00	0.00
ATOM	4471	CB	VAL	X	296	49.063	50.002	52.045	0.00	0.00
ATOM	4472	HB	VAL	X	296	48.349	49.212	52.278	0.00	0.00
ATOM	4473	CG1	VAL	X	296	50.305	49.195	51.471	0.00	0.00
ATOM	4474	HG11	VAL	X	296	50.633	48.388	52.127	0.00	0.00
ATOM	4475	HG12	VAL	X	296	50.168	48.650	50.536	0.00	0.00
ATOM	4476	HG13	VAL	X	296	51.172	49.843	51.344	0.00	0.00
ATOM	4477	CG2	VAL	X	296	49.512	50.632	53.320	0.00	0.00
ATOM	4478	HG21	VAL	X	296	48.681	51.146	53.802	0.00	0.00
ATOM	4479	HG22	VAL	X	296	50.338	51.326	53.164	0.00	0.00
ATOM	4480	HG23	VAL	X	296	49.822	49.797	53.949	0.00	0.00
ATOM	4481	C	VAL	X	296	46.893	51.301	51.833	0.00	0.00
ATOM	4482	O	VAL	X	296	46.699	52.400	52.433	0.00	0.00
ATOM	4483	N	PRO	X	297	45.930	50.394	51.648	0.00	0.00
ATOM	4484	CD	PRO	X	297	45.973	49.315	50.686	0.00	0.00
ATOM	4485	HD2	PRO	X	297	46.548	48.491	51.109	0.00	0.00
ATOM	4486	HD3	PRO	X	297	46.310	49.617	49.695	0.00	0.00
ATOM	4487	CG	PRO	X	297	44.567	48.721	50.620	0.00	0.00
ATOM	4488	HG2	PRO	X	297	44.587	47.632	50.568	0.00	0.00
ATOM	4489	HG3	PRO	X	297	44.095	49.121	49.723	0.00	0.00
ATOM	4490	CB	PRO	X	297	43.874	49.149	51.914	0.00	0.00
ATOM	4491	HB2	PRO	X	297	44.065	48.369	52.652	0.00	0.00
ATOM	4492	HB3	PRO	X	297	42.803	49.194	51.716	0.00	0.00
ATOM	4493	CA	PRO	X	297	44.597	50.457	52.208	0.00	0.00
ATOM	4494	HA	PRO	X	297	44.083	51.286	51.723	0.00	0.00
ATOM	4495	C	PRO	X	297	44.601	50.698	53.764	0.00	0.00
ATOM	4496	O	PRO	X	297	45.313	50.076	54.509	0.00	0.00
ATOM	4497	N	VAL	X	298	43.889	51.680	54.175	0.00	0.00
ATOM	4498	H	VAL	X	298	43.272	52.156	53.534	0.00	0.00
ATOM	4499	CA	VAL	X	298	43.833	52.274	55.492	0.00	0.00
ATOM	4500	HA	VAL	X	298	44.706	51.954	56.061	0.00	0.00
ATOM	4501	CB	VAL	X	298	43.964	53.752	55.338	0.00	0.00
ATOM	4502	HB	VAL	X	298	43.003	54.031	54.906	0.00	0.00
ATOM	4503	CG1	VAL	X	298	44.110	54.539	56.649	0.00	0.00
ATOM	4504	HG11	VAL	X	298	43.935	55.595	56.440	0.00	0.00
ATOM	4505	HG12	VAL	X	298	43.327	54.138	57.293	0.00	0.00
ATOM	4506	HG13	VAL	X	298	45.094	54.348	57.077	0.00	0.00
ATOM	4507	CG2	VAL	X	298	45.161	54.142	54.471	0.00	0.00
ATOM	4508	HG21	VAL	X	298	46.068	53.588	54.715	0.00	0.00
ATOM	4509	HG22	VAL	X	298	45.285	55.213	54.629	0.00	0.00
ATOM	4510	HG23	VAL	X	298	44.882	53.823	53.467	0.00	0.00
ATOM	4511	C	VAL	X	298	42.633	51.787	56.278	0.00	0.00
ATOM	4512	O	VAL	X	298	41.497	52.129	55.931	0.00	0.00
ATOM	4513	N	VAL	X	299	42.838	51.133	57.409	0.00	0.00
ATOM	4514	H	VAL	X	299	43.762	50.917	57.755	0.00	0.00

ATOM	4515	CA	VAL	X	299	41.686	50.893	58.398	0.00	0.00
ATOM	4516	HA	VAL	X	299	40.913	50.446	57.773	0.00	0.00
ATOM	4517	CB	VAL	X	299	42.219	49.986	59.532	0.00	0.00
ATOM	4518	HB	VAL	X	299	43.165	50.447	59.815	0.00	0.00
ATOM	4519	CG1	VAL	X	299	41.231	49.871	60.649	0.00	0.00
ATOM	4520	HG11	VAL	X	299	41.563	49.074	61.314	0.00	0.00
ATOM	4521	HG12	VAL	X	299	41.154	50.802	61.211	0.00	0.00
ATOM	4522	HG13	VAL	X	299	40.258	49.693	60.190	0.00	0.00
ATOM	4523	CG2	VAL	X	299	42.500	48.543	59.089	0.00	0.00
ATOM	4524	HG21	VAL	X	299	41.668	47.856	58.933	0.00	0.00
ATOM	4525	HG22	VAL	X	299	42.986	47.872	59.797	0.00	0.00
ATOM	4526	HG23	VAL	X	299	43.009	48.592	58.127	0.00	0.00
ATOM	4527	C	VAL	X	299	41.284	52.275	58.969	0.00	0.00
ATOM	4528	O	VAL	X	299	42.089	53.082	59.365	0.00	0.00
ATOM	4529	N	ASP	X	300	39.939	52.491	59.020	0.00	0.00
ATOM	4530	H	ASP	X	300	39.307	51.885	58.517	0.00	0.00
ATOM	4531	CA	ASP	X	300	39.427	53.763	59.624	0.00	0.00
ATOM	4532	HA	ASP	X	300	40.114	53.964	60.446	0.00	0.00
ATOM	4533	CB	ASP	X	300	39.377	54.750	58.497	0.00	0.00
ATOM	4534	HB2	ASP	X	300	40.393	55.035	58.224	0.00	0.00
ATOM	4535	HB3	ASP	X	300	38.989	54.472	57.517	0.00	0.00
ATOM	4536	CG	ASP	X	300	38.649	56.003	58.919	0.00	0.00
ATOM	4537	OD1	ASP	X	300	39.190	56.672	59.810	0.00	0.00
ATOM	4538	OD2	ASP	X	300	37.539	56.305	58.357	0.00	0.00
ATOM	4539	C	ASP	X	300	38.129	53.533	60.348	0.00	0.00
ATOM	4540	O	ASP	X	300	38.135	53.825	61.503	0.00	0.00
ATOM	4541	N	GLY	X	301	37.114	53.193	59.611	0.00	0.00
ATOM	4542	H	GLY	X	301	37.270	52.792	58.698	0.00	0.00
ATOM	4543	CA	GLY	X	301	35.681	53.484	59.933	0.00	0.00
ATOM	4544	HA2	GLY	X	301	35.189	52.601	60.340	0.00	0.00
ATOM	4545	HA3	GLY	X	301	35.545	54.255	60.692	0.00	0.00
ATOM	4546	C	GLY	X	301	34.900	53.761	58.639	0.00	0.00
ATOM	4547	O	GLY	X	301	33.888	53.114	58.361	0.00	0.00
ATOM	4548	N	ASP	X	302	35.454	54.519	57.634	0.00	0.00
ATOM	4549	H	ASP	X	302	36.269	55.043	57.919	0.00	0.00
ATOM	4550	CA	ASP	X	302	35.048	54.824	56.203	0.00	0.00
ATOM	4551	HA	ASP	X	302	34.041	55.240	56.186	0.00	0.00
ATOM	4552	CB	ASP	X	302	35.947	55.911	55.592	0.00	0.00
ATOM	4553	HB2	ASP	X	302	35.894	56.872	56.105	0.00	0.00
ATOM	4554	HB3	ASP	X	302	36.982	55.582	55.689	0.00	0.00
ATOM	4555	CG	ASP	X	302	35.561	56.237	54.207	0.00	0.00
ATOM	4556	OD1	ASP	X	302	34.725	57.108	53.947	0.00	0.00
ATOM	4557	OD2	ASP	X	302	36.085	55.639	53.249	0.00	0.00
ATOM	4558	C	ASP	X	302	34.908	53.523	55.383	0.00	0.00
ATOM	4559	O	ASP	X	302	33.926	52.804	55.436	0.00	0.00
ATOM	4560	N	PHE	X	303	35.917	53.096	54.608	0.00	0.00
ATOM	4561	H	PHE	X	303	36.789	53.588	54.740	0.00	0.00
ATOM	4562	CA	PHE	X	303	35.819	51.912	53.666	0.00	0.00
ATOM	4563	HA	PHE	X	303	34.799	51.903	53.281	0.00	0.00
ATOM	4564	CB	PHE	X	303	36.810	52.193	52.499	0.00	0.00
ATOM	4565	HB2	PHE	X	303	36.472	53.174	52.164	0.00	0.00
ATOM	4566	HB3	PHE	X	303	37.838	52.272	52.852	0.00	0.00
ATOM	4567	CG	PHE	X	303	36.852	51.241	51.288	0.00	0.00
ATOM	4568	CD1	PHE	X	303	37.521	49.958	51.419	0.00	0.00
ATOM	4569	HD1	PHE	X	303	38.066	49.805	52.339	0.00	0.00
ATOM	4570	CE1	PHE	X	303	37.339	48.928	50.430	0.00	0.00
ATOM	4571	HE1	PHE	X	303	37.687	47.919	50.591	0.00	0.00
ATOM	4572	CZ	PHE	X	303	36.749	49.320	49.206	0.00	0.00
ATOM	4573	HZ	PHE	X	303	36.878	48.668	48.355	0.00	0.00
ATOM	4574	CE2	PHE	X	303	36.120	50.600	49.052	0.00	0.00
ATOM	4575	HE2	PHE	X	303	35.641	50.898	48.132	0.00	0.00
ATOM	4576	CD2	PHE	X	303	36.235	51.523	50.065	0.00	0.00
ATOM	4577	HD2	PHE	X	303	35.834	52.519	49.946	0.00	0.00
ATOM	4578	C	PHE	X	303	36.073	50.623	54.370	0.00	0.00
ATOM	4579	O	PHE	X	303	35.591	49.622	53.850	0.00	0.00
ATOM	4580	N	LEU	X	304	36.763	50.638	55.548	0.00	0.00
ATOM	4581	H	LEU	X	304	37.305	51.430	55.863	0.00	0.00

ATOM	4582	CA	LEU	X	304	36.761	49.477	56.431	0.00	0.00
ATOM	4583	HA	LEU	X	304	35.711	49.193	56.498	0.00	0.00
ATOM	4584	CB	LEU	X	304	37.711	48.328	55.923	0.00	0.00
ATOM	4585	HB2	LEU	X	304	37.515	47.565	56.676	0.00	0.00
ATOM	4586	HB3	LEU	X	304	37.459	48.017	54.909	0.00	0.00
ATOM	4587	CG	LEU	X	304	39.290	48.424	56.062	0.00	0.00
ATOM	4588	HG	LEU	X	304	39.594	48.788	57.044	0.00	0.00
ATOM	4589	CD1	LEU	X	304	39.862	47.034	55.770	0.00	0.00
ATOM	4590	HD11	LEU	X	304	40.934	47.163	55.622	0.00	0.00
ATOM	4591	HD12	LEU	X	304	39.445	46.658	54.836	0.00	0.00
ATOM	4592	HD13	LEU	X	304	39.674	46.337	56.588	0.00	0.00
ATOM	4593	CD2	LEU	X	304	39.858	49.400	54.945	0.00	0.00
ATOM	4594	HD21	LEU	X	304	40.901	49.641	55.153	0.00	0.00
ATOM	4595	HD22	LEU	X	304	39.754	48.960	53.953	0.00	0.00
ATOM	4596	HD23	LEU	X	304	39.328	50.351	55.006	0.00	0.00
ATOM	4597	C	LEU	X	304	37.186	49.888	57.821	0.00	0.00
ATOM	4598	O	LEU	X	304	37.799	50.940	57.994	0.00	0.00
ATOM	4599	N	SER	X	305	36.575	49.234	58.816	0.00	0.00
ATOM	4600	H	SER	X	305	35.897	48.533	58.553	0.00	0.00
ATOM	4601	CA	SER	X	305	36.536	49.635	60.264	0.00	0.00
ATOM	4602	HA	SER	X	305	36.707	50.703	60.399	0.00	0.00
ATOM	4603	CB	SER	X	305	35.033	49.485	60.659	0.00	0.00
ATOM	4604	HB2	SER	X	305	34.825	48.423	60.786	0.00	0.00
ATOM	4605	HB3	SER	X	305	35.053	49.792	61.704	0.00	0.00
ATOM	4606	OG	SER	X	305	34.084	50.276	59.913	0.00	0.00
ATOM	4607	HG	SER	X	305	33.257	50.356	60.395	0.00	0.00
ATOM	4608	C	SER	X	305	37.408	48.775	61.173	0.00	0.00
ATOM	4609	O	SER	X	305	37.613	49.066	62.348	0.00	0.00
ATOM	4610	N	ASP	X	306	37.941	47.677	60.672	0.00	0.00
ATOM	4611	H	ASP	X	306	37.786	47.507	59.689	0.00	0.00
ATOM	4612	CA	ASP	X	306	38.934	46.826	61.311	0.00	0.00
ATOM	4613	HA	ASP	X	306	39.576	47.514	61.862	0.00	0.00
ATOM	4614	CB	ASP	X	306	38.384	45.856	62.451	0.00	0.00
ATOM	4615	HB2	ASP	X	306	37.455	46.257	62.855	0.00	0.00
ATOM	4616	HB3	ASP	X	306	38.117	44.900	62.000	0.00	0.00
ATOM	4617	CG	ASP	X	306	39.359	45.552	63.633	0.00	0.00
ATOM	4618	OD1	ASP	X	306	40.107	44.552	63.461	0.00	0.00
ATOM	4619	OD2	ASP	X	306	39.417	46.393	64.552	0.00	0.00
ATOM	4620	C	ASP	X	306	39.784	46.084	60.319	0.00	0.00
ATOM	4621	O	ASP	X	306	39.687	46.346	59.133	0.00	0.00
ATOM	4622	N	THR	X	307	40.544	45.088	60.733	0.00	0.00
ATOM	4623	H	THR	X	307	40.555	44.734	61.679	0.00	0.00
ATOM	4624	CA	THR	X	307	41.449	44.378	59.859	0.00	0.00
ATOM	4625	HA	THR	X	307	41.912	45.045	59.131	0.00	0.00
ATOM	4626	CB	THR	X	307	42.599	43.887	60.670	0.00	0.00
ATOM	4627	HB	THR	X	307	43.255	43.269	60.057	0.00	0.00
ATOM	4628	CG2	THR	X	307	43.485	45.092	61.111	0.00	0.00
ATOM	4629	HG21	THR	X	307	44.314	44.741	61.725	0.00	0.00
ATOM	4630	HG22	THR	X	307	43.009	45.866	61.714	0.00	0.00
ATOM	4631	HG23	THR	X	307	43.944	45.572	60.246	0.00	0.00
ATOM	4632	OG1	THR	X	307	42.198	43.067	61.676	0.00	0.00
ATOM	4633	HG1	THR	X	307	41.470	43.427	62.186	0.00	0.00
ATOM	4634	C	THR	X	307	40.772	43.301	59.110	0.00	0.00
ATOM	4635	O	THR	X	307	39.910	42.680	59.731	0.00	0.00
ATOM	4636	N	PRO	X	308	41.028	42.987	57.781	0.00	0.00
ATOM	4637	CD	PRO	X	308	41.839	43.834	56.934	0.00	0.00
ATOM	4638	HD2	PRO	X	308	42.851	43.550	57.220	0.00	0.00
ATOM	4639	HD3	PRO	X	308	41.666	44.895	57.114	0.00	0.00
ATOM	4640	CG	PRO	X	308	41.568	43.406	55.505	0.00	0.00
ATOM	4641	HG2	PRO	X	308	42.470	43.523	54.905	0.00	0.00
ATOM	4642	HG3	PRO	X	308	40.707	43.912	55.069	0.00	0.00
ATOM	4643	CB	PRO	X	308	41.080	41.955	55.732	0.00	0.00
ATOM	4644	HB2	PRO	X	308	41.962	41.315	55.697	0.00	0.00
ATOM	4645	HB3	PRO	X	308	40.461	41.414	55.017	0.00	0.00
ATOM	4646	CA	PRO	X	308	40.435	41.873	57.047	0.00	0.00
ATOM	4647	HA	PRO	X	308	39.413	42.178	56.823	0.00	0.00
ATOM	4648	C	PRO	X	308	40.486	40.494	57.688	0.00	0.00

ATOM	4649	O	PRO	X	308	39.669	39.603	57.425	0.00	0.00
ATOM	4650	N	GLU	X	309	41.524	40.237	58.458	0.00	0.00
ATOM	4651	H	GLU	X	309	42.343	40.828	58.469	0.00	0.00
ATOM	4652	CA	GLU	X	309	41.522	39.103	59.359	0.00	0.00
ATOM	4653	HA	GLU	X	309	41.480	38.210	58.735	0.00	0.00
ATOM	4654	CB	GLU	X	309	42.934	38.985	60.064	0.00	0.00
ATOM	4655	HB2	GLU	X	309	43.013	38.080	60.666	0.00	0.00
ATOM	4656	HB3	GLU	X	309	43.564	38.971	59.174	0.00	0.00
ATOM	4657	CG	GLU	X	309	43.444	40.108	60.993	0.00	0.00
ATOM	4658	HG2	GLU	X	309	43.388	41.106	60.558	0.00	0.00
ATOM	4659	HG3	GLU	X	309	42.961	40.072	61.970	0.00	0.00
ATOM	4660	CD	GLU	X	309	44.942	39.873	61.163	0.00	0.00
ATOM	4661	OE1	GLU	X	309	45.728	40.305	60.268	0.00	0.00
ATOM	4662	OE2	GLU	X	309	45.424	39.239	62.139	0.00	0.00
ATOM	4663	C	GLU	X	309	40.322	38.943	60.415	0.00	0.00
ATOM	4664	O	GLU	X	309	39.925	37.840	60.826	0.00	0.00
ATOM	4665	N	ALA	X	310	39.976	40.063	60.979	0.00	0.00
ATOM	4666	H	ALA	X	310	40.463	40.914	60.738	0.00	0.00
ATOM	4667	CA	ALA	X	310	38.828	40.114	61.894	0.00	0.00
ATOM	4668	HA	ALA	X	310	38.931	39.234	62.529	0.00	0.00
ATOM	4669	CB	ALA	X	310	38.896	41.339	62.816	0.00	0.00
ATOM	4670	HB1	ALA	X	310	39.741	41.439	63.498	0.00	0.00
ATOM	4671	HB2	ALA	X	310	37.997	41.360	63.431	0.00	0.00
ATOM	4672	HB3	ALA	X	310	38.871	42.256	62.227	0.00	0.00
ATOM	4673	C	ALA	X	310	37.533	40.120	61.047	0.00	0.00
ATOM	4674	O	ALA	X	310	36.598	39.352	61.321	0.00	0.00
ATOM	4675	N	LEU	X	311	37.376	41.037	60.070	0.00	0.00
ATOM	4676	H	LEU	X	311	38.208	41.568	59.858	0.00	0.00
ATOM	4677	CA	LEU	X	311	36.186	41.302	59.270	0.00	0.00
ATOM	4678	HA	LEU	X	311	35.409	41.514	60.005	0.00	0.00
ATOM	4679	CB	LEU	X	311	36.502	42.404	58.223	0.00	0.00
ATOM	4680	HB2	LEU	X	311	37.334	42.076	57.600	0.00	0.00
ATOM	4681	HB3	LEU	X	311	35.573	42.579	57.679	0.00	0.00
ATOM	4682	CG	LEU	X	311	36.821	43.759	58.887	0.00	0.00
ATOM	4683	HG	LEU	X	311	37.715	43.751	59.511	0.00	0.00
ATOM	4684	CD1	LEU	X	311	37.150	44.800	57.779	0.00	0.00
ATOM	4685	HD11	LEU	X	311	37.354	45.773	58.227	0.00	0.00
ATOM	4686	HD12	LEU	X	311	36.228	44.898	57.208	0.00	0.00
ATOM	4687	HD13	LEU	X	311	38.053	44.531	57.230	0.00	0.00
ATOM	4688	CD2	LEU	X	311	35.683	44.172	59.740	0.00	0.00
ATOM	4689	HD21	LEU	X	311	35.795	43.705	60.718	0.00	0.00
ATOM	4690	HD22	LEU	X	311	35.755	45.259	59.775	0.00	0.00
ATOM	4691	HD23	LEU	X	311	34.767	43.813	59.271	0.00	0.00
ATOM	4692	C	LEU	X	311	35.743	40.000	58.534	0.00	0.00
ATOM	4693	O	LEU	X	311	34.530	39.755	58.542	0.00	0.00
ATOM	4694	N	ILE	X	312	36.650	39.163	58.004	0.00	0.00
ATOM	4695	H	ILE	X	312	37.620	39.436	58.057	0.00	0.00
ATOM	4696	CA	ILE	X	312	36.205	37.914	57.382	0.00	0.00
ATOM	4697	HA	ILE	X	312	35.499	38.209	56.606	0.00	0.00
ATOM	4698	CB	ILE	X	312	37.418	37.256	56.578	0.00	0.00
ATOM	4699	HB	ILE	X	312	37.983	37.985	55.997	0.00	0.00
ATOM	4700	CG2	ILE	X	312	38.404	36.527	57.485	0.00	0.00
ATOM	4701	HG21	ILE	X	312	39.356	36.452	56.959	0.00	0.00
ATOM	4702	HG22	ILE	X	312	37.978	35.539	57.659	0.00	0.00
ATOM	4703	HG23	ILE	X	312	38.621	36.980	58.453	0.00	0.00
ATOM	4704	CG1	ILE	X	312	36.906	36.256	55.519	0.00	0.00
ATOM	4705	HG12	ILE	X	312	37.729	35.569	55.322	0.00	0.00
ATOM	4706	HG13	ILE	X	312	36.003	35.707	55.784	0.00	0.00
ATOM	4707	CD1	ILE	X	312	36.612	36.880	54.174	0.00	0.00
ATOM	4708	HD11	ILE	X	312	37.357	37.618	53.877	0.00	0.00
ATOM	4709	HD12	ILE	X	312	35.660	37.405	54.259	0.00	0.00
ATOM	4710	HD13	ILE	X	312	36.454	36.111	53.417	0.00	0.00
ATOM	4711	C	ILE	X	312	35.706	36.936	58.466	0.00	0.00
ATOM	4712	O	ILE	X	312	34.683	36.221	58.295	0.00	0.00
ATOM	4713	N	ASN	X	313	36.295	36.874	59.635	0.00	0.00
ATOM	4714	H	ASN	X	313	37.134	37.422	59.761	0.00	0.00
ATOM	4715	CA	ASN	X	313	35.825	36.045	60.787	0.00	0.00

ATOM	4716	HA	ASN	X	313	35.581	35.063	60.380	0.00	0.00
ATOM	4717	CB	ASN	X	313	36.883	35.824	61.853	0.00	0.00
ATOM	4718	HB2	ASN	X	313	37.343	36.805	61.971	0.00	0.00
ATOM	4719	HB3	ASN	X	313	36.471	35.452	62.791	0.00	0.00
ATOM	4720	CG	ASN	X	313	37.952	34.856	61.466	0.00	0.00
ATOM	4721	OD1	ASN	X	313	37.694	33.679	61.462	0.00	0.00
ATOM	4722	ND2	ASN	X	313	39.178	35.263	61.104	0.00	0.00
ATOM	4723	HD21	ASN	X	313	39.854	34.587	60.779	0.00	0.00
ATOM	4724	HD22	ASN	X	313	39.376	36.252	61.053	0.00	0.00
ATOM	4725	C	ASN	X	313	34.446	36.453	61.380	0.00	0.00
ATOM	4726	O	ASN	X	313	33.748	35.577	61.881	0.00	0.00
ATOM	4727	N	ALA	X	314	34.068	37.727	61.243	0.00	0.00
ATOM	4728	H	ALA	X	314	34.842	38.258	60.871	0.00	0.00
ATOM	4729	CA	ALA	X	314	32.804	38.332	61.634	0.00	0.00
ATOM	4730	HA	ALA	X	314	32.523	38.088	62.659	0.00	0.00
ATOM	4731	CB	ALA	X	314	32.931	39.818	61.499	0.00	0.00
ATOM	4732	HB1	ALA	X	314	32.010	40.305	61.822	0.00	0.00
ATOM	4733	HB2	ALA	X	314	33.004	40.105	60.450	0.00	0.00
ATOM	4734	HB3	ALA	X	314	33.737	40.067	62.189	0.00	0.00
ATOM	4735	C	ALA	X	314	31.625	37.889	60.750	0.00	0.00
ATOM	4736	O	ALA	X	314	30.581	37.295	61.216	0.00	0.00
ATOM	4737	N	GLY	X	315	31.779	38.091	59.473	0.00	0.00
ATOM	4738	H	GLY	X	315	32.641	38.485	59.124	0.00	0.00
ATOM	4739	CA	GLY	X	315	30.699	37.916	58.413	0.00	0.00
ATOM	4740	HA2	GLY	X	315	29.743	38.278	58.791	0.00	0.00
ATOM	4741	HA3	GLY	X	315	31.005	38.554	57.584	0.00	0.00
ATOM	4742	C	GLY	X	315	30.384	36.497	57.973	0.00	0.00
ATOM	4743	O	GLY	X	315	31.148	35.603	58.213	0.00	0.00
ATOM	4744	N	ASP	X	316	29.244	36.355	57.282	0.00	0.00
ATOM	4745	H	ASP	X	316	28.792	37.231	57.062	0.00	0.00
ATOM	4746	CA	ASP	X	316	28.762	35.124	56.618	0.00	0.00
ATOM	4747	HA	ASP	X	316	29.320	34.262	56.985	0.00	0.00
ATOM	4748	CB	ASP	X	316	27.343	34.850	57.012	0.00	0.00
ATOM	4749	HB2	ASP	X	316	27.171	35.016	58.075	0.00	0.00
ATOM	4750	HB3	ASP	X	316	26.641	35.516	56.511	0.00	0.00
ATOM	4751	CG	ASP	X	316	26.829	33.415	56.633	0.00	0.00
ATOM	4752	OD1	ASP	X	316	27.561	32.475	56.854	0.00	0.00
ATOM	4753	OD2	ASP	X	316	25.733	33.278	56.015	0.00	0.00
ATOM	4754	C	ASP	X	316	29.011	35.217	55.106	0.00	0.00
ATOM	4755	O	ASP	X	316	29.004	36.242	54.494	0.00	0.00
ATOM	4756	N	PHE	X	317	29.139	34.050	54.410	0.00	0.00
ATOM	4757	H	PHE	X	317	29.103	33.163	54.892	0.00	0.00
ATOM	4758	CA	PHE	X	317	29.615	33.893	52.969	0.00	0.00
ATOM	4759	HA	PHE	X	317	29.419	34.761	52.341	0.00	0.00
ATOM	4760	CB	PHE	X	317	31.123	33.684	52.962	0.00	0.00
ATOM	4761	HB2	PHE	X	317	31.260	32.750	53.507	0.00	0.00
ATOM	4762	HB3	PHE	X	317	31.355	33.458	51.922	0.00	0.00
ATOM	4763	CG	PHE	X	317	31.754	34.917	53.599	0.00	0.00
ATOM	4764	CD1	PHE	X	317	31.710	36.170	52.898	0.00	0.00
ATOM	4765	HD1	PHE	X	317	31.302	36.057	51.905	0.00	0.00
ATOM	4766	CE1	PHE	X	317	32.233	37.295	53.471	0.00	0.00
ATOM	4767	HE1	PHE	X	317	32.269	38.169	52.837	0.00	0.00
ATOM	4768	CZ	PHE	X	317	32.782	37.236	54.707	0.00	0.00
ATOM	4769	HZ	PHE	X	317	33.181	38.141	55.138	0.00	0.00
ATOM	4770	CE2	PHE	X	317	32.695	36.108	55.501	0.00	0.00
ATOM	4771	HE2	PHE	X	317	33.032	36.110	56.527	0.00	0.00
ATOM	4772	CD2	PHE	X	317	32.286	34.961	54.879	0.00	0.00
ATOM	4773	HD2	PHE	X	317	32.273	34.064	55.480	0.00	0.00
ATOM	4774	C	PHE	X	317	28.915	32.710	52.272	0.00	0.00
ATOM	4775	O	PHE	X	317	29.205	32.290	51.194	0.00	0.00
ATOM	4776	N	HIE	X	318	27.931	32.194	52.990	0.00	0.00
ATOM	4777	H	HIE	X	318	27.701	32.675	53.848	0.00	0.00
ATOM	4778	CA	HIE	X	318	27.121	31.053	52.543	0.00	0.00
ATOM	4779	HA	HIE	X	318	27.685	30.121	52.519	0.00	0.00
ATOM	4780	CB	HIE	X	318	26.047	30.817	53.623	0.00	0.00
ATOM	4781	HB2	HIE	X	318	26.649	30.701	54.524	0.00	0.00
ATOM	4782	HB3	HIE	X	318	25.394	31.689	53.617	0.00	0.00

ATOM	4783	CG	HIE	X	318	25.247	29.600	53.300	0.00	0.00
ATOM	4784	ND1	HIE	X	318	24.039	29.536	52.545	0.00	0.00
ATOM	4785	CE1	HIE	X	318	23.693	28.253	52.464	0.00	0.00
ATOM	4786	HE1	HIE	X	318	22.914	27.822	51.854	0.00	0.00
ATOM	4787	NE2	HIE	X	318	24.638	27.453	53.004	0.00	0.00
ATOM	4788	HE2	HIE	X	318	24.625	26.443	52.988	0.00	0.00
ATOM	4789	CD2	HIE	X	318	25.575	28.284	53.606	0.00	0.00
ATOM	4790	HD2	HIE	X	318	26.390	27.981	54.247	0.00	0.00
ATOM	4791	C	HIE	X	318	26.420	31.272	51.215	0.00	0.00
ATOM	4792	O	HIE	X	318	25.822	32.333	51.038	0.00	0.00
ATOM	4793	N	GLY	X	319	26.622	30.318	50.266	0.00	0.00
ATOM	4794	H	GLY	X	319	27.189	29.560	50.618	0.00	0.00
ATOM	4795	CA	GLY	X	319	26.263	30.242	48.887	0.00	0.00
ATOM	4796	HA2	GLY	X	319	26.070	29.214	48.580	0.00	0.00
ATOM	4797	HA3	GLY	X	319	25.314	30.729	48.661	0.00	0.00
ATOM	4798	C	GLY	X	319	27.166	30.883	47.802	0.00	0.00
ATOM	4799	O	GLY	X	319	27.089	30.652	46.610	0.00	0.00
ATOM	4800	N	LEU	X	320	28.156	31.634	48.320	0.00	0.00
ATOM	4801	H	LEU	X	320	27.893	31.980	49.232	0.00	0.00
ATOM	4802	CA	LEU	X	320	28.960	32.551	47.526	0.00	0.00
ATOM	4803	HA	LEU	X	320	28.301	33.077	46.837	0.00	0.00
ATOM	4804	CB	LEU	X	320	29.667	33.621	48.373	0.00	0.00
ATOM	4805	HB2	LEU	X	320	30.423	33.179	49.021	0.00	0.00
ATOM	4806	HB3	LEU	X	320	30.298	34.272	47.769	0.00	0.00
ATOM	4807	CG	LEU	X	320	28.730	34.487	49.162	0.00	0.00
ATOM	4808	HG	LEU	X	320	28.329	33.920	50.003	0.00	0.00
ATOM	4809	CD1	LEU	X	320	29.590	35.596	49.710	0.00	0.00
ATOM	4810	HD11	LEU	X	320	30.476	35.218	50.220	0.00	0.00
ATOM	4811	HD12	LEU	X	320	28.971	36.205	50.369	0.00	0.00
ATOM	4812	HD13	LEU	X	320	29.885	36.212	48.861	0.00	0.00
ATOM	4813	CD2	LEU	X	320	27.509	35.093	48.368	0.00	0.00
ATOM	4814	HD21	LEU	X	320	26.901	35.637	49.092	0.00	0.00
ATOM	4815	HD22	LEU	X	320	27.960	35.848	47.725	0.00	0.00
ATOM	4816	HD23	LEU	X	320	26.898	34.361	47.840	0.00	0.00
ATOM	4817	C	LEU	X	320	30.029	31.745	46.742	0.00	0.00
ATOM	4818	O	LEU	X	320	30.121	30.485	46.900	0.00	0.00
ATOM	4819	N	GLN	X	321	30.863	32.384	45.878	0.00	0.00
ATOM	4820	H	GLN	X	321	30.973	33.386	45.947	0.00	0.00
ATOM	4821	CA	GLN	X	321	31.646	31.522	45.041	0.00	0.00
ATOM	4822	HA	GLN	X	321	31.774	30.523	45.457	0.00	0.00
ATOM	4823	CB	GLN	X	321	31.011	31.348	43.670	0.00	0.00
ATOM	4824	HB2	GLN	X	321	30.815	32.273	43.128	0.00	0.00
ATOM	4825	HB3	GLN	X	321	31.614	30.756	42.982	0.00	0.00
ATOM	4826	CG	GLN	X	321	29.647	30.659	43.660	0.00	0.00
ATOM	4827	HG2	GLN	X	321	29.674	29.848	44.387	0.00	0.00
ATOM	4828	HG3	GLN	X	321	28.895	31.389	43.958	0.00	0.00
ATOM	4829	CD	GLN	X	321	29.292	30.285	42.163	0.00	0.00
ATOM	4830	OE1	GLN	X	321	29.299	31.128	41.299	0.00	0.00
ATOM	4831	NE2	GLN	X	321	28.971	29.050	41.843	0.00	0.00
ATOM	4832	HE21	GLN	X	321	28.944	29.018	40.834	0.00	0.00
ATOM	4833	HE22	GLN	X	321	29.406	28.316	42.383	0.00	0.00
ATOM	4834	C	GLN	X	321	33.045	32.151	44.748	0.00	0.00
ATOM	4835	O	GLN	X	321	33.158	33.215	44.174	0.00	0.00
ATOM	4836	N	VAL	X	322	34.155	31.447	45.078	0.00	0.00
ATOM	4837	H	VAL	X	322	33.915	30.564	45.505	0.00	0.00
ATOM	4838	CA	VAL	X	322	35.503	31.890	45.218	0.00	0.00
ATOM	4839	HA	VAL	X	322	35.539	32.852	44.706	0.00	0.00
ATOM	4840	CB	VAL	X	322	35.892	32.171	46.701	0.00	0.00
ATOM	4841	HB	VAL	X	322	35.737	31.204	47.181	0.00	0.00
ATOM	4842	CG1	VAL	X	322	37.313	32.725	46.957	0.00	0.00
ATOM	4843	HG11	VAL	X	322	37.458	33.761	46.649	0.00	0.00
ATOM	4844	HG12	VAL	X	322	37.391	32.778	48.043	0.00	0.00
ATOM	4845	HG13	VAL	X	322	38.165	32.078	46.750	0.00	0.00
ATOM	4846	CG2	VAL	X	322	34.892	33.172	47.309	0.00	0.00
ATOM	4847	HG21	VAL	X	322	35.166	33.292	48.357	0.00	0.00
ATOM	4848	HG22	VAL	X	322	33.882	32.767	47.248	0.00	0.00
ATOM	4849	HG23	VAL	X	322	34.835	34.112	46.759	0.00	0.00

ATOM	4850	C	VAL	X	322	36.534	30.906	44.579	0.00	0.00
ATOM	4851	O	VAL	X	322	36.416	29.709	44.649	0.00	0.00
ATOM	4852	N	LEU	X	323	37.506	31.486	43.911	0.00	0.00
ATOM	4853	H	LEU	X	323	37.455	32.489	43.803	0.00	0.00
ATOM	4854	CA	LEU	X	323	38.790	30.795	43.645	0.00	0.00
ATOM	4855	HA	LEU	X	323	38.644	29.781	44.018	0.00	0.00
ATOM	4856	CB	LEU	X	323	39.075	30.995	42.137	0.00	0.00
ATOM	4857	HB2	LEU	X	323	38.155	30.655	41.661	0.00	0.00
ATOM	4858	HB3	LEU	X	323	39.290	32.057	42.020	0.00	0.00
ATOM	4859	CG	LEU	X	323	40.291	30.145	41.468	0.00	0.00
ATOM	4860	HG	LEU	X	323	41.256	30.536	41.792	0.00	0.00
ATOM	4861	CD1	LEU	X	323	40.138	28.687	41.783	0.00	0.00
ATOM	4862	HD11	LEU	X	323	40.453	28.043	40.963	0.00	0.00
ATOM	4863	HD12	LEU	X	323	39.090	28.512	42.027	0.00	0.00
ATOM	4864	HD13	LEU	X	323	40.871	28.485	42.564	0.00	0.00
ATOM	4865	CD2	LEU	X	323	39.973	30.287	39.927	0.00	0.00
ATOM	4866	HD21	LEU	X	323	39.017	29.823	39.688	0.00	0.00
ATOM	4867	HD22	LEU	X	323	39.839	31.311	39.578	0.00	0.00
ATOM	4868	HD23	LEU	X	323	40.713	29.807	39.286	0.00	0.00
ATOM	4869	C	LEU	X	323	39.881	31.453	44.457	0.00	0.00
ATOM	4870	O	LEU	X	323	39.889	32.674	44.714	0.00	0.00
ATOM	4871	N	VAL	X	324	40.824	30.661	44.995	0.00	0.00
ATOM	4872	H	VAL	X	324	40.876	29.739	44.585	0.00	0.00
ATOM	4873	CA	VAL	X	324	42.051	31.162	45.597	0.00	0.00
ATOM	4874	HA	VAL	X	324	42.130	32.241	45.463	0.00	0.00
ATOM	4875	CB	VAL	X	324	42.123	30.889	47.094	0.00	0.00
ATOM	4876	HB	VAL	X	324	42.927	31.438	47.583	0.00	0.00
ATOM	4877	CG1	VAL	X	324	40.897	31.411	47.857	0.00	0.00
ATOM	4878	HG11	VAL	X	324	41.100	31.395	48.928	0.00	0.00
ATOM	4879	HG12	VAL	X	324	40.769	32.421	47.468	0.00	0.00
ATOM	4880	HG13	VAL	X	324	40.058	30.751	47.638	0.00	0.00
ATOM	4881	CG2	VAL	X	324	42.216	29.326	47.402	0.00	0.00
ATOM	4882	HG21	VAL	X	324	43.250	28.982	47.403	0.00	0.00
ATOM	4883	HG22	VAL	X	324	41.715	28.623	46.737	0.00	0.00
ATOM	4884	HG23	VAL	X	324	41.797	28.989	48.350	0.00	0.00
ATOM	4885	C	VAL	X	324	43.273	30.470	44.976	0.00	0.00
ATOM	4886	O	VAL	X	324	42.994	29.456	44.325	0.00	0.00
ATOM	4887	N	GLY	X	325	44.509	30.916	45.217	0.00	0.00
ATOM	4888	H	GLY	X	325	44.600	31.886	45.485	0.00	0.00
ATOM	4889	CA	GLY	X	325	45.671	30.036	44.842	0.00	0.00
ATOM	4890	HA2	GLY	X	325	45.864	29.418	45.719	0.00	0.00
ATOM	4891	HA3	GLY	X	325	45.526	29.492	43.908	0.00	0.00
ATOM	4892	C	GLY	X	325	47.013	30.761	44.802	0.00	0.00
ATOM	4893	O	GLY	X	325	47.025	31.953	44.478	0.00	0.00
ATOM	4894	N	VAL	X	326	48.069	30.134	45.094	0.00	0.00
ATOM	4895	H	VAL	X	326	48.139	29.128	45.164	0.00	0.00
ATOM	4896	CA	VAL	X	326	49.479	30.657	45.192	0.00	0.00
ATOM	4897	HA	VAL	X	326	49.410	31.741	45.095	0.00	0.00
ATOM	4898	CB	VAL	X	326	50.081	30.361	46.579	0.00	0.00
ATOM	4899	HB	VAL	X	326	51.113	30.681	46.438	0.00	0.00
ATOM	4900	CG1	VAL	X	326	49.362	31.317	47.522	0.00	0.00
ATOM	4901	HG11	VAL	X	326	48.316	31.078	47.712	0.00	0.00
ATOM	4902	HG12	VAL	X	326	49.868	31.281	48.486	0.00	0.00
ATOM	4903	HG13	VAL	X	326	49.428	32.358	47.204	0.00	0.00
ATOM	4904	CG2	VAL	X	326	50.014	28.863	47.005	0.00	0.00
ATOM	4905	HG21	VAL	X	326	50.275	28.363	46.072	0.00	0.00
ATOM	4906	HG22	VAL	X	326	49.010	28.696	47.397	0.00	0.00
ATOM	4907	HG23	VAL	X	326	50.727	28.559	47.771	0.00	0.00
ATOM	4908	C	VAL	X	326	50.306	30.089	44.119	0.00	0.00
ATOM	4909	O	VAL	X	326	49.983	29.036	43.515	0.00	0.00
ATOM	4910	N	VAL	X	327	51.521	30.635	43.919	0.00	0.00
ATOM	4911	H	VAL	X	327	51.759	31.477	44.423	0.00	0.00
ATOM	4912	CA	VAL	X	327	52.660	29.949	43.264	0.00	0.00
ATOM	4913	HA	VAL	X	327	52.218	29.374	42.450	0.00	0.00
ATOM	4914	CB	VAL	X	327	53.658	30.915	42.540	0.00	0.00
ATOM	4915	HB	VAL	X	327	54.378	30.311	41.988	0.00	0.00
ATOM	4916	CG1	VAL	X	327	52.886	31.684	41.468	0.00	0.00

ATOM	4917	HG11	VAL	X	327	53.541	32.294	40.846	0.00	0.00
ATOM	4918	HG12	VAL	X	327	52.426	30.944	40.813	0.00	0.00
ATOM	4919	HG13	VAL	X	327	52.255	32.355	42.051	0.00	0.00
ATOM	4920	CG2	VAL	X	327	54.433	31.832	43.513	0.00	0.00
ATOM	4921	HG21	VAL	X	327	53.848	32.545	44.093	0.00	0.00
ATOM	4922	HG22	VAL	X	327	55.211	32.320	42.926	0.00	0.00
ATOM	4923	HG23	VAL	X	327	54.882	31.381	44.398	0.00	0.00
ATOM	4924	C	VAL	X	327	53.448	29.032	44.221	0.00	0.00
ATOM	4925	O	VAL	X	327	53.256	28.963	45.395	0.00	0.00
ATOM	4926	N	LYS	X	328	54.442	28.317	43.640	0.00	0.00
ATOM	4927	H	LYS	X	328	54.549	28.377	42.638	0.00	0.00
ATOM	4928	CA	LYS	X	328	55.325	27.298	44.413	0.00	0.00
ATOM	4929	HA	LYS	X	328	54.664	26.672	45.013	0.00	0.00
ATOM	4930	CB	LYS	X	328	56.121	26.437	43.375	0.00	0.00
ATOM	4931	HB2	LYS	X	328	55.452	26.164	42.559	0.00	0.00
ATOM	4932	HB3	LYS	X	328	56.987	26.959	42.966	0.00	0.00
ATOM	4933	CG	LYS	X	328	56.570	25.103	44.063	0.00	0.00
ATOM	4934	HG2	LYS	X	328	57.015	25.338	45.030	0.00	0.00
ATOM	4935	HG3	LYS	X	328	55.647	24.622	44.388	0.00	0.00
ATOM	4936	CD	LYS	X	328	57.407	24.070	43.260	0.00	0.00
ATOM	4937	HD2	LYS	X	328	57.331	23.090	43.732	0.00	0.00
ATOM	4938	HD3	LYS	X	328	56.951	23.895	42.286	0.00	0.00
ATOM	4939	CE	LYS	X	328	58.842	24.469	43.171	0.00	0.00
ATOM	4940	HE2	LYS	X	328	59.384	23.793	42.509	0.00	0.00
ATOM	4941	HE3	LYS	X	328	58.945	25.405	42.621	0.00	0.00
ATOM	4942	NZ	LYS	X	328	59.401	24.657	44.506	0.00	0.00
ATOM	4943	HZ1	LYS	X	328	58.917	24.083	45.182	0.00	0.00
ATOM	4944	HZ2	LYS	X	328	60.399	24.533	44.415	0.00	0.00
ATOM	4945	HZ3	LYS	X	328	59.214	25.579	44.876	0.00	0.00
ATOM	4946	C	LYS	X	328	56.246	27.913	45.489	0.00	0.00
ATOM	4947	O	LYS	X	328	56.533	27.232	46.455	0.00	0.00
ATOM	4948	N	ASP	X	329	56.721	29.100	45.237	0.00	0.00
ATOM	4949	H	ASP	X	329	56.403	29.499	44.365	0.00	0.00
ATOM	4950	CA	ASP	X	329	57.752	29.848	45.949	0.00	0.00
ATOM	4951	HA	ASP	X	329	57.940	29.404	46.926	0.00	0.00
ATOM	4952	CB	ASP	X	329	59.096	29.658	45.174	0.00	0.00
ATOM	4953	HB2	ASP	X	329	59.094	30.264	44.269	0.00	0.00
ATOM	4954	HB3	ASP	X	329	59.899	30.031	45.810	0.00	0.00
ATOM	4955	CG	ASP	X	329	59.402	28.202	44.818	0.00	0.00
ATOM	4956	OD1	ASP	X	329	59.507	27.364	45.712	0.00	0.00
ATOM	4957	OD2	ASP	X	329	59.292	27.825	43.670	0.00	0.00
ATOM	4958	C	ASP	X	329	57.350	31.338	46.291	0.00	0.00
ATOM	4959	O	ASP	X	329	58.047	32.221	45.820	0.00	0.00
ATOM	4960	N	GLU	X	330	56.197	31.615	47.001	0.00	0.00
ATOM	4961	H	GLU	X	330	55.743	30.783	47.351	0.00	0.00
ATOM	4962	CA	GLU	X	330	55.685	32.978	47.304	0.00	0.00
ATOM	4963	HA	GLU	X	330	55.420	33.451	46.358	0.00	0.00
ATOM	4964	CB	GLU	X	330	54.377	32.866	48.202	0.00	0.00
ATOM	4965	HB2	GLU	X	330	54.683	32.295	49.079	0.00	0.00
ATOM	4966	HB3	GLU	X	330	54.170	33.815	48.697	0.00	0.00
ATOM	4967	CG	GLU	X	330	53.096	32.293	47.546	0.00	0.00
ATOM	4968	HG2	GLU	X	330	53.437	31.379	47.060	0.00	0.00
ATOM	4969	HG3	GLU	X	330	52.364	32.221	48.350	0.00	0.00
ATOM	4970	CD	GLU	X	330	52.416	33.218	46.548	0.00	0.00
ATOM	4971	OE1	GLU	X	330	52.682	34.441	46.661	0.00	0.00
ATOM	4972	OE2	GLU	X	330	51.717	32.794	45.523	0.00	0.00
ATOM	4973	C	GLU	X	330	56.690	33.886	47.991	0.00	0.00
ATOM	4974	O	GLU	X	330	56.749	35.082	47.748	0.00	0.00
ATOM	4975	N	GLY	X	331	57.663	33.238	48.660	0.00	0.00
ATOM	4976	H	GLY	X	331	57.791	32.237	48.628	0.00	0.00
ATOM	4977	CA	GLY	X	331	58.622	34.083	49.445	0.00	0.00
ATOM	4978	HA2	GLY	X	331	58.167	35.018	49.771	0.00	0.00
ATOM	4979	HA3	GLY	X	331	58.991	33.460	50.260	0.00	0.00
ATOM	4980	C	GLY	X	331	59.947	34.542	48.746	0.00	0.00
ATOM	4981	O	GLY	X	331	60.555	35.480	49.274	0.00	0.00
ATOM	4982	N	SER	X	332	60.283	33.794	47.687	0.00	0.00
ATOM	4983	H	SER	X	332	59.627	33.070	47.432	0.00	0.00

ATOM	4984	CA	SER	X	332	61.546	33.880	46.908	0.00	0.00
ATOM	4985	HA	SER	X	332	62.399	33.759	47.576	0.00	0.00
ATOM	4986	CB	SER	X	332	61.677	32.630	45.967	0.00	0.00
ATOM	4987	HB2	SER	X	332	62.688	32.596	45.562	0.00	0.00
ATOM	4988	HB3	SER	X	332	61.542	31.796	46.656	0.00	0.00
ATOM	4989	OG	SER	X	332	60.751	32.643	44.912	0.00	0.00
ATOM	4990	HG	SER	X	332	60.749	31.853	44.367	0.00	0.00
ATOM	4991	C	SER	X	332	61.711	35.213	46.144	0.00	0.00
ATOM	4992	O	SER	X	332	62.831	35.715	46.018	0.00	0.00
ATOM	4993	N	TYR	X	333	60.592	35.866	45.791	0.00	0.00
ATOM	4994	H	TYR	X	333	59.740	35.374	46.019	0.00	0.00
ATOM	4995	CA	TYR	X	333	60.533	37.059	45.010	0.00	0.00
ATOM	4996	HA	TYR	X	333	61.295	37.025	44.232	0.00	0.00
ATOM	4997	CB	TYR	X	333	59.182	37.135	44.291	0.00	0.00
ATOM	4998	HB2	TYR	X	333	58.981	36.254	43.681	0.00	0.00
ATOM	4999	HB3	TYR	X	333	58.407	37.221	45.052	0.00	0.00
ATOM	5000	CG	TYR	X	333	59.022	38.394	43.461	0.00	0.00
ATOM	5001	CD1	TYR	X	333	59.419	38.483	42.097	0.00	0.00
ATOM	5002	HD1	TYR	X	333	59.853	37.665	41.542	0.00	0.00
ATOM	5003	CE1	TYR	X	333	59.192	39.666	41.279	0.00	0.00
ATOM	5004	HE1	TYR	X	333	59.445	39.600	40.231	0.00	0.00
ATOM	5005	CZ	TYR	X	333	58.681	40.827	41.925	0.00	0.00
ATOM	5006	OH	TYR	X	333	58.434	41.982	41.257	0.00	0.00
ATOM	5007	HH	TYR	X	333	58.638	41.757	40.346	0.00	0.00
ATOM	5008	CE2	TYR	X	333	58.140	40.707	43.251	0.00	0.00
ATOM	5009	HE2	TYR	X	333	57.525	41.506	43.636	0.00	0.00
ATOM	5010	CD2	TYR	X	333	58.293	39.473	43.932	0.00	0.00
ATOM	5011	HD2	TYR	X	333	57.998	39.526	44.970	0.00	0.00
ATOM	5012	C	TYR	X	333	60.915	38.392	45.691	0.00	0.00
ATOM	5013	O	TYR	X	333	61.440	39.233	44.993	0.00	0.00
ATOM	5014	N	PHE	X	334	60.728	38.659	46.963	0.00	0.00
ATOM	5015	H	PHE	X	334	60.381	37.951	47.595	0.00	0.00
ATOM	5016	CA	PHE	X	334	61.077	39.954	47.487	0.00	0.00
ATOM	5017	HA	PHE	X	334	61.042	40.738	46.730	0.00	0.00
ATOM	5018	CB	PHE	X	334	59.955	40.191	48.547	0.00	0.00
ATOM	5019	HB2	PHE	X	334	59.807	39.323	49.190	0.00	0.00
ATOM	5020	HB3	PHE	X	334	60.189	41.015	49.220	0.00	0.00
ATOM	5021	CG	PHE	X	334	58.577	40.438	47.860	0.00	0.00
ATOM	5022	CD1	PHE	X	334	57.659	39.389	47.533	0.00	0.00
ATOM	5023	HD1	PHE	X	334	57.918	38.418	47.930	0.00	0.00
ATOM	5024	CE1	PHE	X	334	56.385	39.745	47.178	0.00	0.00
ATOM	5025	HE1	PHE	X	334	55.685	38.940	47.007	0.00	0.00
ATOM	5026	CZ	PHE	X	334	56.096	41.057	46.767	0.00	0.00
ATOM	5027	HZ	PHE	X	334	55.189	41.315	46.240	0.00	0.00
ATOM	5028	CE2	PHE	X	334	57.073	42.045	46.900	0.00	0.00
ATOM	5029	HE2	PHE	X	334	56.779	43.058	46.671	0.00	0.00
ATOM	5030	CD2	PHE	X	334	58.263	41.774	47.625	0.00	0.00
ATOM	5031	HD2	PHE	X	334	58.941	42.570	47.899	0.00	0.00
ATOM	5032	C	PHE	X	334	62.483	39.988	48.090	0.00	0.00
ATOM	5033	O	PHE	X	334	62.858	41.031	48.567	0.00	0.00
ATOM	5034	N	LEU	X	335	63.321	38.946	48.022	0.00	0.00
ATOM	5035	H	LEU	X	335	62.944	38.069	47.692	0.00	0.00
ATOM	5036	CA	LEU	X	335	64.656	38.865	48.706	0.00	0.00
ATOM	5037	HA	LEU	X	335	64.464	39.212	49.722	0.00	0.00
ATOM	5038	CB	LEU	X	335	65.167	37.402	48.824	0.00	0.00
ATOM	5039	HB2	LEU	X	335	65.079	37.061	47.793	0.00	0.00
ATOM	5040	HB3	LEU	X	335	66.208	37.297	49.130	0.00	0.00
ATOM	5041	CG	LEU	X	335	64.204	36.499	49.753	0.00	0.00
ATOM	5042	HG	LEU	X	335	63.204	36.505	49.319	0.00	0.00
ATOM	5043	CD1	LEU	X	335	64.445	34.972	49.597	0.00	0.00
ATOM	5044	HD11	LEU	X	335	64.443	34.639	48.559	0.00	0.00
ATOM	5045	HD12	LEU	X	335	63.641	34.489	50.151	0.00	0.00
ATOM	5046	HD13	LEU	X	335	65.434	34.769	50.010	0.00	0.00
ATOM	5047	CD2	LEU	X	335	64.239	36.768	51.247	0.00	0.00
ATOM	5048	HD21	LEU	X	335	63.386	36.217	51.641	0.00	0.00
ATOM	5049	HD22	LEU	X	335	65.199	36.547	51.713	0.00	0.00
ATOM	5050	HD23	LEU	X	335	64.113	37.821	51.498	0.00	0.00

ATOM	5051	C	LEU	X	335	65.723	39.760	48.005	0.00	0.00
ATOM	5052	O	LEU	X	335	66.499	40.458	48.689	0.00	0.00
ATOM	5053	N	VAL	X	336	65.839	39.876	46.752	0.00	0.00
ATOM	5054	H	VAL	X	336	65.156	39.312	46.266	0.00	0.00
ATOM	5055	CA	VAL	X	336	66.813	40.614	45.940	0.00	0.00
ATOM	5056	HA	VAL	X	336	67.800	40.291	46.271	0.00	0.00
ATOM	5057	CB	VAL	X	336	66.893	40.212	44.463	0.00	0.00
ATOM	5058	HB	VAL	X	336	67.789	40.701	44.080	0.00	0.00
ATOM	5059	CG1	VAL	X	336	67.277	38.771	44.187	0.00	0.00
ATOM	5060	HG11	VAL	X	336	67.596	38.438	43.199	0.00	0.00
ATOM	5061	HG12	VAL	X	336	67.992	38.404	44.924	0.00	0.00
ATOM	5062	HG13	VAL	X	336	66.290	38.335	44.338	0.00	0.00
ATOM	5063	CG2	VAL	X	336	65.690	40.613	43.626	0.00	0.00
ATOM	5064	HG21	VAL	X	336	65.874	40.916	42.595	0.00	0.00
ATOM	5065	HG22	VAL	X	336	65.113	41.371	44.155	0.00	0.00
ATOM	5066	HG23	VAL	X	336	64.948	39.815	43.643	0.00	0.00
ATOM	5067	C	VAL	X	336	66.673	42.136	46.038	0.00	0.00
ATOM	5068	O	VAL	X	336	67.269	42.941	45.315	0.00	0.00
ATOM	5069	N	TYR	X	337	65.720	42.634	46.796	0.00	0.00
ATOM	5070	H	TYR	X	337	65.124	41.976	47.277	0.00	0.00
ATOM	5071	CA	TYR	X	337	65.366	44.069	46.904	0.00	0.00
ATOM	5072	HA	TYR	X	337	65.817	44.711	46.148	0.00	0.00
ATOM	5073	CB	TYR	X	337	63.865	44.180	46.570	0.00	0.00
ATOM	5074	HB2	TYR	X	337	63.381	43.619	47.369	0.00	0.00
ATOM	5075	HB3	TYR	X	337	63.595	45.224	46.730	0.00	0.00
ATOM	5076	CG	TYR	X	337	63.356	43.856	45.161	0.00	0.00
ATOM	5077	CD1	TYR	X	337	63.510	44.854	44.146	0.00	0.00
ATOM	5078	HD1	TYR	X	337	64.086	45.729	44.409	0.00	0.00
ATOM	5079	CE1	TYR	X	337	63.077	44.579	42.832	0.00	0.00
ATOM	5080	HE1	TYR	X	337	63.238	45.293	42.039	0.00	0.00
ATOM	5081	CZ	TYR	X	337	62.372	43.359	42.505	0.00	0.00
ATOM	5082	OH	TYR	X	337	61.953	43.122	41.209	0.00	0.00
ATOM	5083	HH	TYR	X	337	62.072	43.887	40.642	0.00	0.00
ATOM	5084	CE2	TYR	X	337	62.190	42.437	43.593	0.00	0.00
ATOM	5085	HE2	TYR	X	337	61.761	41.480	43.337	0.00	0.00
ATOM	5086	CD2	TYR	X	337	62.590	42.794	44.908	0.00	0.00
ATOM	5087	HD2	TYR	X	337	62.278	42.199	45.754	0.00	0.00
ATOM	5088	C	TYR	X	337	65.638	44.659	48.239	0.00	0.00
ATOM	5089	O	TYR	X	337	65.355	45.868	48.315	0.00	0.00
ATOM	5090	N	GLY	X	338	66.049	43.881	49.225	0.00	0.00
ATOM	5091	H	GLY	X	338	66.274	42.906	49.089	0.00	0.00
ATOM	5092	CA	GLY	X	338	66.386	44.409	50.566	0.00	0.00
ATOM	5093	HA2	GLY	X	338	67.201	45.133	50.571	0.00	0.00
ATOM	5094	HA3	GLY	X	338	65.506	44.911	50.969	0.00	0.00
ATOM	5095	C	GLY	X	338	66.726	43.395	51.680	0.00	0.00
ATOM	5096	O	GLY	X	338	67.110	43.828	52.741	0.00	0.00
ATOM	5097	N	ALA	X	339	66.673	42.078	51.441	0.00	0.00
ATOM	5098	H	ALA	X	339	66.417	41.766	50.515	0.00	0.00
ATOM	5099	CA	ALA	X	339	67.207	41.084	52.347	0.00	0.00
ATOM	5100	HA	ALA	X	339	66.943	41.308	53.380	0.00	0.00
ATOM	5101	CB	ALA	X	339	66.686	39.745	51.934	0.00	0.00
ATOM	5102	HB1	ALA	X	339	65.606	39.864	51.845	0.00	0.00
ATOM	5103	HB2	ALA	X	339	66.956	39.068	52.744	0.00	0.00
ATOM	5104	HB3	ALA	X	339	67.052	39.459	50.948	0.00	0.00
ATOM	5105	C	ALA	X	339	68.787	41.136	52.281	0.00	0.00
ATOM	5106	O	ALA	X	339	69.359	41.250	51.209	0.00	0.00
ATOM	5107	N	PRO	X	340	69.449	41.091	53.478	0.00	0.00
ATOM	5108	CD	PRO	X	340	68.935	41.028	54.870	0.00	0.00
ATOM	5109	HD2	PRO	X	340	68.162	40.266	54.974	0.00	0.00
ATOM	5110	HD3	PRO	X	340	68.437	41.973	55.085	0.00	0.00
ATOM	5111	CG	PRO	X	340	70.080	40.799	55.857	0.00	0.00
ATOM	5112	HG2	PRO	X	340	70.172	39.734	56.074	0.00	0.00
ATOM	5113	HG3	PRO	X	340	70.104	41.276	56.837	0.00	0.00
ATOM	5114	CB	PRO	X	340	71.328	41.223	55.079	0.00	0.00
ATOM	5115	HB2	PRO	X	340	72.165	40.570	55.327	0.00	0.00
ATOM	5116	HB3	PRO	X	340	71.633	42.252	55.268	0.00	0.00
ATOM	5117	CA	PRO	X	340	70.941	41.078	53.601	0.00	0.00

ATOM	5118	HA	PRO	X	340	71.345	41.899	53.009	0.00	0.00
ATOM	5119	C	PRO	X	340	71.553	39.789	53.029	0.00	0.00
ATOM	5120	O	PRO	X	340	70.989	38.705	53.161	0.00	0.00
ATOM	5121	N	GLY	X	341	72.559	39.953	52.218	0.00	0.00
ATOM	5122	H	GLY	X	341	72.941	40.888	52.234	0.00	0.00
ATOM	5123	CA	GLY	X	341	73.313	38.964	51.410	0.00	0.00
ATOM	5124	HA2	GLY	X	341	74.398	39.062	51.449	0.00	0.00
ATOM	5125	HA3	GLY	X	341	73.098	37.947	51.736	0.00	0.00
ATOM	5126	C	GLY	X	341	72.933	38.930	49.889	0.00	0.00
ATOM	5127	O	GLY	X	341	73.783	38.603	49.001	0.00	0.00
ATOM	5128	N	PHE	X	342	71.664	39.255	49.569	0.00	0.00
ATOM	5129	H	PHE	X	342	71.026	39.398	50.339	0.00	0.00
ATOM	5130	CA	PHE	X	342	71.098	38.950	48.238	0.00	0.00
ATOM	5131	HA	PHE	X	342	71.662	38.127	47.799	0.00	0.00
ATOM	5132	CB	PHE	X	342	69.602	38.506	48.311	0.00	0.00
ATOM	5133	HB2	PHE	X	342	69.045	39.348	48.723	0.00	0.00
ATOM	5134	HB3	PHE	X	342	69.181	38.315	47.324	0.00	0.00
ATOM	5135	CG	PHE	X	342	69.247	37.257	49.172	0.00	0.00
ATOM	5136	CD1	PHE	X	342	68.678	36.192	48.430	0.00	0.00
ATOM	5137	HD1	PHE	X	342	68.417	36.259	47.384	0.00	0.00
ATOM	5138	CE1	PHE	X	342	68.227	35.045	49.130	0.00	0.00
ATOM	5139	HE1	PHE	X	342	67.750	34.169	48.715	0.00	0.00
ATOM	5140	CZ	PHE	X	342	68.251	35.069	50.529	0.00	0.00
ATOM	5141	HZ	PHE	X	342	67.850	34.211	51.048	0.00	0.00
ATOM	5142	CE2	PHE	X	342	68.835	36.127	51.298	0.00	0.00
ATOM	5143	HE2	PHE	X	342	68.860	36.183	52.376	0.00	0.00
ATOM	5144	CD2	PHE	X	342	69.333	37.252	50.541	0.00	0.00
ATOM	5145	HD2	PHE	X	342	69.671	38.140	51.053	0.00	0.00
ATOM	5146	C	PHE	X	342	71.289	40.004	47.159	0.00	0.00
ATOM	5147	O	PHE	X	342	71.449	41.179	47.378	0.00	0.00
ATOM	5148	N	SER	X	343	71.223	39.585	45.945	0.00	0.00
ATOM	5149	H	SER	X	343	71.122	38.585	45.847	0.00	0.00
ATOM	5150	CA	SER	X	343	70.935	40.415	44.716	0.00	0.00
ATOM	5151	HA	SER	X	343	70.088	41.074	44.904	0.00	0.00
ATOM	5152	CB	SER	X	343	72.139	41.234	44.178	0.00	0.00
ATOM	5153	HB2	SER	X	343	72.472	41.819	45.036	0.00	0.00
ATOM	5154	HB3	SER	X	343	72.981	40.572	43.976	0.00	0.00
ATOM	5155	OG	SER	X	343	71.809	42.175	43.126	0.00	0.00
ATOM	5156	HG	SER	X	343	72.549	42.180	42.514	0.00	0.00
ATOM	5157	C	SER	X	343	70.468	39.533	43.555	0.00	0.00
ATOM	5158	O	SER	X	343	70.550	38.327	43.713	0.00	0.00
ATOM	5159	N	LYS	X	344	69.931	40.092	42.474	0.00	0.00
ATOM	5160	H	LYS	X	344	69.899	41.097	42.379	0.00	0.00
ATOM	5161	CA	LYS	X	344	69.607	39.260	41.302	0.00	0.00
ATOM	5162	HA	LYS	X	344	69.026	38.393	41.616	0.00	0.00
ATOM	5163	CB	LYS	X	344	68.653	40.135	40.426	0.00	0.00
ATOM	5164	HB2	LYS	X	344	68.128	39.435	39.776	0.00	0.00
ATOM	5165	HB3	LYS	X	344	67.890	40.637	41.021	0.00	0.00
ATOM	5166	CG	LYS	X	344	69.352	41.141	39.529	0.00	0.00
ATOM	5167	HG2	LYS	X	344	69.849	41.738	40.293	0.00	0.00
ATOM	5168	HG3	LYS	X	344	70.072	40.670	38.860	0.00	0.00
ATOM	5169	CD	LYS	X	344	68.381	41.943	38.689	0.00	0.00
ATOM	5170	HD2	LYS	X	344	67.692	41.212	38.269	0.00	0.00
ATOM	5171	HD3	LYS	X	344	67.792	42.493	39.423	0.00	0.00
ATOM	5172	CE	LYS	X	344	69.029	42.892	37.720	0.00	0.00
ATOM	5173	HE2	LYS	X	344	68.136	43.415	37.379	0.00	0.00
ATOM	5174	HE3	LYS	X	344	69.730	43.644	38.082	0.00	0.00
ATOM	5175	NZ	LYS	X	344	69.753	42.194	36.656	0.00	0.00
ATOM	5176	HZ1	LYS	X	344	69.920	42.792	35.860	0.00	0.00
ATOM	5177	HZ2	LYS	X	344	70.678	41.849	36.871	0.00	0.00
ATOM	5178	HZ3	LYS	X	344	69.228	41.404	36.312	0.00	0.00
ATOM	5179	C	LYS	X	344	70.822	38.714	40.565	0.00	0.00
ATOM	5180	O	LYS	X	344	70.663	37.742	39.815	0.00	0.00
ATOM	5181	N	ASP	X	345	71.987	39.387	40.703	0.00	0.00
ATOM	5182	H	ASP	X	345	72.030	40.138	41.377	0.00	0.00
ATOM	5183	CA	ASP	X	345	73.267	39.173	39.990	0.00	0.00
ATOM	5184	HA	ASP	X	345	73.094	38.481	39.165	0.00	0.00

ATOM	5185	CB	ASP	X	345	73.871	40.511	39.438	0.00	0.00
ATOM	5186	HB2	ASP	X	345	74.651	40.202	38.742	0.00	0.00
ATOM	5187	HB3	ASP	X	345	73.086	41.029	38.888	0.00	0.00
ATOM	5188	CG	ASP	X	345	74.474	41.379	40.534	0.00	0.00
ATOM	5189	OD1	ASP	X	345	73.758	41.768	41.482	0.00	0.00
ATOM	5190	OD2	ASP	X	345	75.639	41.822	40.399	0.00	0.00
ATOM	5191	C	ASP	X	345	74.322	38.506	40.855	0.00	0.00
ATOM	5192	O	ASP	X	345	75.439	38.276	40.441	0.00	0.00
ATOM	5193	N	ASN	X	346	73.933	38.193	42.058	0.00	0.00
ATOM	5194	H	ASN	X	346	72.959	38.399	42.227	0.00	0.00
ATOM	5195	CA	ASN	X	346	74.807	37.635	43.105	0.00	0.00
ATOM	5196	HA	ASN	X	346	75.795	37.441	42.686	0.00	0.00
ATOM	5197	CB	ASN	X	346	74.935	38.534	44.303	0.00	0.00
ATOM	5198	HB2	ASN	X	346	75.318	39.501	43.978	0.00	0.00
ATOM	5199	HB3	ASN	X	346	73.909	38.713	44.626	0.00	0.00
ATOM	5200	CG	ASN	X	346	75.873	38.055	45.333	0.00	0.00
ATOM	5201	OD1	ASN	X	346	75.506	37.226	46.144	0.00	0.00
ATOM	5202	ND2	ASN	X	346	77.086	38.643	45.451	0.00	0.00
ATOM	5203	HD21	ASN	X	346	77.676	38.221	46.154	0.00	0.00
ATOM	5204	HD22	ASN	X	346	77.350	39.484	44.958	0.00	0.00
ATOM	5205	C	ASN	X	346	74.331	36.196	43.502	0.00	0.00
ATOM	5206	O	ASN	X	346	73.141	35.958	43.757	0.00	0.00
ATOM	5207	N	GLU	X	347	75.243	35.238	43.639	0.00	0.00
ATOM	5208	H	GLU	X	347	76.203	35.491	43.451	0.00	0.00
ATOM	5209	CA	GLU	X	347	74.950	33.769	43.898	0.00	0.00
ATOM	5210	HA	GLU	X	347	74.265	33.493	43.096	0.00	0.00
ATOM	5211	CB	GLU	X	347	76.265	32.877	43.861	0.00	0.00
ATOM	5212	HB2	GLU	X	347	76.699	32.942	42.863	0.00	0.00
ATOM	5213	HB3	GLU	X	347	77.101	33.154	44.503	0.00	0.00
ATOM	5214	CG	GLU	X	347	76.084	31.413	44.147	0.00	0.00
ATOM	5215	HG2	GLU	X	347	77.037	30.887	44.208	0.00	0.00
ATOM	5216	HG3	GLU	X	347	75.613	31.467	45.129	0.00	0.00
ATOM	5217	CD	GLU	X	347	75.258	30.667	43.101	0.00	0.00
ATOM	5218	OE1	GLU	X	347	74.769	29.580	43.454	0.00	0.00
ATOM	5219	OE2	GLU	X	347	75.156	31.080	41.941	0.00	0.00
ATOM	5220	C	GLU	X	347	74.255	33.574	45.253	0.00	0.00
ATOM	5221	O	GLU	X	347	73.574	32.537	45.397	0.00	0.00
ATOM	5222	N	SER	X	348	74.461	34.465	46.185	0.00	0.00
ATOM	5223	H	SER	X	348	75.059	35.245	45.953	0.00	0.00
ATOM	5224	CA	SER	X	348	73.608	34.654	47.412	0.00	0.00
ATOM	5225	HA	SER	X	348	73.850	35.625	47.845	0.00	0.00
ATOM	5226	CB	SER	X	348	72.103	34.726	47.085	0.00	0.00
ATOM	5227	HB2	SER	X	348	71.800	33.871	46.480	0.00	0.00
ATOM	5228	HB3	SER	X	348	71.536	34.462	47.978	0.00	0.00
ATOM	5229	OG	SER	X	348	71.663	35.966	46.440	0.00	0.00
ATOM	5230	HG	SER	X	348	72.107	35.972	45.588	0.00	0.00
ATOM	5231	C	SER	X	348	73.875	33.651	48.446	0.00	0.00
ATOM	5232	O	SER	X	348	72.984	32.942	48.996	0.00	0.00
ATOM	5233	N	LEU	X	349	75.150	33.511	48.828	0.00	0.00
ATOM	5234	H	LEU	X	349	75.860	34.126	48.456	0.00	0.00
ATOM	5235	CA	LEU	X	349	75.695	32.472	49.711	0.00	0.00
ATOM	5236	HA	LEU	X	349	75.056	31.591	49.655	0.00	0.00
ATOM	5237	CB	LEU	X	349	77.052	32.060	49.233	0.00	0.00
ATOM	5238	HB2	LEU	X	349	77.849	32.795	49.340	0.00	0.00
ATOM	5239	HB3	LEU	X	349	77.304	31.277	49.949	0.00	0.00
ATOM	5240	CG	LEU	X	349	77.091	31.481	47.804	0.00	0.00
ATOM	5241	HG	LEU	X	349	76.834	32.292	47.123	0.00	0.00
ATOM	5242	CD1	LEU	X	349	78.465	31.012	47.213	0.00	0.00
ATOM	5243	HD11	LEU	X	349	79.083	31.910	47.198	0.00	0.00
ATOM	5244	HD12	LEU	X	349	78.313	30.586	46.222	0.00	0.00
ATOM	5245	HD13	LEU	X	349	78.915	30.255	47.855	0.00	0.00
ATOM	5246	CD2	LEU	X	349	76.194	30.213	47.609	0.00	0.00
ATOM	5247	HD21	LEU	X	349	76.365	29.634	46.701	0.00	0.00
ATOM	5248	HD22	LEU	X	349	76.453	29.542	48.427	0.00	0.00
ATOM	5249	HD23	LEU	X	349	75.159	30.549	47.672	0.00	0.00
ATOM	5250	C	LEU	X	349	75.592	32.939	51.195	0.00	0.00
ATOM	5251	O	LEU	X	349	76.645	33.289	51.774	0.00	0.00

ATOM	5252	N	ILE	X	350	74.394	32.975	51.813	0.00	0.00
ATOM	5253	H	ILE	X	350	73.535	32.811	51.307	0.00	0.00
ATOM	5254	CA	ILE	X	350	74.257	33.393	53.214	0.00	0.00
ATOM	5255	HA	ILE	X	350	74.858	34.295	53.320	0.00	0.00
ATOM	5256	CB	ILE	X	350	72.757	33.831	53.493	0.00	0.00
ATOM	5257	HB	ILE	X	350	72.812	34.273	54.488	0.00	0.00
ATOM	5258	CG2	ILE	X	350	72.384	34.960	52.509	0.00	0.00
ATOM	5259	HG21	ILE	X	350	72.327	34.525	51.511	0.00	0.00
ATOM	5260	HG22	ILE	X	350	73.100	35.775	52.406	0.00	0.00
ATOM	5261	HG23	ILE	X	350	71.395	35.345	52.760	0.00	0.00
ATOM	5262	CG1	ILE	X	350	71.693	32.747	53.628	0.00	0.00
ATOM	5263	HG12	ILE	X	350	71.872	32.187	52.711	0.00	0.00
ATOM	5264	HG13	ILE	X	350	71.963	32.109	54.469	0.00	0.00
ATOM	5265	CD1	ILE	X	350	70.282	33.234	53.876	0.00	0.00
ATOM	5266	HD11	ILE	X	350	69.687	32.438	54.325	0.00	0.00
ATOM	5267	HD12	ILE	X	350	69.818	33.756	53.039	0.00	0.00
ATOM	5268	HD13	ILE	X	350	70.251	33.990	54.660	0.00	0.00
ATOM	5269	C	ILE	X	350	74.845	32.467	54.301	0.00	0.00
ATOM	5270	O	ILE	X	350	74.741	31.245	54.305	0.00	0.00
ATOM	5271	N	SER	X	351	75.280	33.107	55.398	0.00	0.00
ATOM	5272	H	SER	X	351	75.305	34.117	55.414	0.00	0.00
ATOM	5273	CA	SER	X	351	75.458	32.478	56.749	0.00	0.00
ATOM	5274	HA	SER	X	351	75.708	31.428	56.602	0.00	0.00
ATOM	5275	CB	SER	X	351	76.567	33.185	57.474	0.00	0.00
ATOM	5276	HB2	SER	X	351	76.971	32.651	58.334	0.00	0.00
ATOM	5277	HB3	SER	X	351	77.436	33.276	56.823	0.00	0.00
ATOM	5278	OG	SER	X	351	76.194	34.467	57.969	0.00	0.00
ATOM	5279	HG	SER	X	351	76.961	34.796	58.443	0.00	0.00
ATOM	5280	C	SER	X	351	74.175	32.503	57.560	0.00	0.00
ATOM	5281	O	SER	X	351	73.179	33.203	57.284	0.00	0.00
ATOM	5282	N	ARG	X	352	74.200	31.679	58.655	0.00	0.00
ATOM	5283	H	ARG	X	352	74.999	31.091	58.843	0.00	0.00
ATOM	5284	CA	ARG	X	352	73.059	31.680	59.588	0.00	0.00
ATOM	5285	HA	ARG	X	352	72.209	31.507	58.928	0.00	0.00
ATOM	5286	CB	ARG	X	352	73.222	30.495	60.516	0.00	0.00
ATOM	5287	HB2	ARG	X	352	73.430	29.600	59.930	0.00	0.00
ATOM	5288	HB3	ARG	X	352	74.106	30.671	61.130	0.00	0.00
ATOM	5289	CG	ARG	X	352	71.972	30.267	61.320	0.00	0.00
ATOM	5290	HG2	ARG	X	352	71.876	30.941	62.171	0.00	0.00
ATOM	5291	HG3	ARG	X	352	71.070	30.398	60.723	0.00	0.00
ATOM	5292	CD	ARG	X	352	71.769	28.794	61.778	0.00	0.00
ATOM	5293	HD2	ARG	X	352	70.829	28.866	62.324	0.00	0.00
ATOM	5294	HD3	ARG	X	352	71.685	28.143	60.908	0.00	0.00
ATOM	5295	NE	ARG	X	352	72.838	28.281	62.662	0.00	0.00
ATOM	5296	HE	ARG	X	352	73.302	29.051	63.122	0.00	0.00
ATOM	5297	CZ	ARG	X	352	72.926	27.101	63.204	0.00	0.00
ATOM	5298	NH1	ARG	X	352	71.990	26.114	62.954	0.00	0.00
ATOM	5299	HH11	ARG	X	352	71.103	26.369	62.545	0.00	0.00
ATOM	5300	HH12	ARG	X	352	72.150	25.138	63.159	0.00	0.00
ATOM	5301	NH2	ARG	X	352	73.955	26.799	63.972	0.00	0.00
ATOM	5302	HH21	ARG	X	352	74.854	27.252	63.898	0.00	0.00
ATOM	5303	HH22	ARG	X	352	73.909	25.876	64.379	0.00	0.00
ATOM	5304	C	ARG	X	352	72.898	33.014	60.369	0.00	0.00
ATOM	5305	O	ARG	X	352	71.739	33.401	60.565	0.00	0.00
ATOM	5306	N	ALA	X	353	73.956	33.742	60.692	0.00	0.00
ATOM	5307	H	ALA	X	353	74.874	33.323	60.719	0.00	0.00
ATOM	5308	CA	ALA	X	353	73.912	35.231	61.049	0.00	0.00
ATOM	5309	HA	ALA	X	353	73.370	35.299	61.992	0.00	0.00
ATOM	5310	CB	ALA	X	353	75.412	35.746	61.115	0.00	0.00
ATOM	5311	HB1	ALA	X	353	75.939	35.143	61.854	0.00	0.00
ATOM	5312	HB2	ALA	X	353	75.406	36.763	61.506	0.00	0.00
ATOM	5313	HB3	ALA	X	353	75.925	35.736	60.154	0.00	0.00
ATOM	5314	C	ALA	X	353	72.977	36.005	60.110	0.00	0.00
ATOM	5315	O	ALA	X	353	72.125	36.759	60.479	0.00	0.00
ATOM	5316	N	GLU	X	354	73.295	36.014	58.758	0.00	0.00
ATOM	5317	H	GLU	X	354	73.953	35.310	58.455	0.00	0.00
ATOM	5318	CA	GLU	X	354	72.515	36.739	57.745	0.00	0.00

ATOM	5319	HA	GLU	X	354	72.482	37.778	58.071	0.00	0.00
ATOM	5320	CB	GLU	X	354	73.222	36.597	56.375	0.00	0.00
ATOM	5321	HB2	GLU	X	354	73.387	35.533	56.199	0.00	0.00
ATOM	5322	HB3	GLU	X	354	72.635	36.932	55.519	0.00	0.00
ATOM	5323	CG	GLU	X	354	74.504	37.429	56.420	0.00	0.00
ATOM	5324	HG2	GLU	X	354	74.296	38.499	56.409	0.00	0.00
ATOM	5325	HG3	GLU	X	354	75.059	37.433	57.359	0.00	0.00
ATOM	5326	CD	GLU	X	354	75.621	37.008	55.447	0.00	0.00
ATOM	5327	OE1	GLU	X	354	76.544	37.847	55.326	0.00	0.00
ATOM	5328	OE2	GLU	X	354	75.564	36.039	54.682	0.00	0.00
ATOM	5329	C	GLU	X	354	71.123	36.128	57.677	0.00	0.00
ATOM	5330	O	GLU	X	354	70.229	36.909	57.342	0.00	0.00
ATOM	5331	N	PHE	X	355	70.870	34.811	57.863	0.00	0.00
ATOM	5332	H	PHE	X	355	71.565	34.083	57.778	0.00	0.00
ATOM	5333	CA	PHE	X	355	69.522	34.326	57.915	0.00	0.00
ATOM	5334	HA	PHE	X	355	68.912	34.563	57.043	0.00	0.00
ATOM	5335	CB	PHE	X	355	69.549	32.788	58.091	0.00	0.00
ATOM	5336	HB2	PHE	X	355	70.103	32.481	57.204	0.00	0.00
ATOM	5337	HB3	PHE	X	355	70.069	32.596	59.029	0.00	0.00
ATOM	5338	CG	PHE	X	355	68.262	32.015	58.127	0.00	0.00
ATOM	5339	CD1	PHE	X	355	67.051	32.426	57.615	0.00	0.00
ATOM	5340	HD1	PHE	X	355	67.060	33.352	57.060	0.00	0.00
ATOM	5341	CE1	PHE	X	355	65.882	31.661	57.726	0.00	0.00
ATOM	5342	HE1	PHE	X	355	64.955	32.054	57.332	0.00	0.00
ATOM	5343	CZ	PHE	X	355	65.938	30.402	58.346	0.00	0.00
ATOM	5344	HZ	PHE	X	355	65.042	29.806	58.436	0.00	0.00
ATOM	5345	CE2	PHE	X	355	67.169	29.864	58.792	0.00	0.00
ATOM	5346	HE2	PHE	X	355	67.253	28.871	59.209	0.00	0.00
ATOM	5347	CD2	PHE	X	355	68.270	30.766	58.716	0.00	0.00
ATOM	5348	HD2	PHE	X	355	69.206	30.395	59.105	0.00	0.00
ATOM	5349	C	PHE	X	355	68.691	34.917	59.065	0.00	0.00
ATOM	5350	O	PHE	X	355	67.507	35.271	58.876	0.00	0.00
ATOM	5351	N	LEU	X	356	69.283	35.066	60.230	0.00	0.00
ATOM	5352	H	LEU	X	356	70.233	34.726	60.284	0.00	0.00
ATOM	5353	CA	LEU	X	356	68.633	35.665	61.411	0.00	0.00
ATOM	5354	HA	LEU	X	356	67.757	35.124	61.768	0.00	0.00
ATOM	5355	CB	LEU	X	356	69.645	35.566	62.602	0.00	0.00
ATOM	5356	HB2	LEU	X	356	69.888	34.521	62.792	0.00	0.00
ATOM	5357	HB3	LEU	X	356	70.559	36.065	62.283	0.00	0.00
ATOM	5358	CG	LEU	X	356	69.104	36.112	63.931	0.00	0.00
ATOM	5359	HG	LEU	X	356	68.796	37.121	63.654	0.00	0.00
ATOM	5360	CD1	LEU	X	356	67.890	35.371	64.493	0.00	0.00
ATOM	5361	HD11	LEU	X	356	68.150	34.376	64.853	0.00	0.00
ATOM	5362	HD12	LEU	X	356	67.079	35.299	63.768	0.00	0.00
ATOM	5363	HD13	LEU	X	356	67.547	35.988	65.323	0.00	0.00
ATOM	5364	CD2	LEU	X	356	70.125	36.183	65.042	0.00	0.00
ATOM	5365	HD21	LEU	X	356	69.671	36.437	66.000	0.00	0.00
ATOM	5366	HD22	LEU	X	356	70.637	35.228	65.155	0.00	0.00
ATOM	5367	HD23	LEU	X	356	70.798	37.031	64.915	0.00	0.00
ATOM	5368	C	LEU	X	356	68.205	37.092	61.070	0.00	0.00
ATOM	5369	O	LEU	X	356	67.059	37.437	61.215	0.00	0.00
ATOM	5370	N	ALA	X	357	69.135	37.830	60.533	0.00	0.00
ATOM	5371	H	ALA	X	357	69.979	37.290	60.410	0.00	0.00
ATOM	5372	CA	ALA	X	357	68.873	39.237	60.127	0.00	0.00
ATOM	5373	HA	ALA	X	357	68.478	39.821	60.958	0.00	0.00
ATOM	5374	CB	ALA	X	357	70.319	39.825	59.751	0.00	0.00
ATOM	5375	HB1	ALA	X	357	70.114	40.842	59.416	0.00	0.00
ATOM	5376	HB2	ALA	X	357	70.729	39.193	58.964	0.00	0.00
ATOM	5377	HB3	ALA	X	357	70.909	39.801	60.667	0.00	0.00
ATOM	5378	C	ALA	X	357	67.831	39.263	58.980	0.00	0.00
ATOM	5379	O	ALA	X	357	67.072	40.211	58.956	0.00	0.00
ATOM	5380	N	GLY	X	358	67.868	38.278	58.026	0.00	0.00
ATOM	5381	H	GLY	X	358	68.593	37.597	58.201	0.00	0.00
ATOM	5382	CA	GLY	X	358	66.951	38.050	56.999	0.00	0.00
ATOM	5383	HA2	GLY	X	358	66.865	38.953	56.394	0.00	0.00
ATOM	5384	HA3	GLY	X	358	67.202	37.242	56.311	0.00	0.00
ATOM	5385	C	GLY	X	358	65.547	37.887	57.593	0.00	0.00

ATOM	5386	O	GLY	X	358	64.646	38.712	57.387	0.00	0.00
ATOM	5387	N	VAL	X	359	65.367	36.953	58.520	0.00	0.00
ATOM	5388	H	VAL	X	359	66.211	36.477	58.806	0.00	0.00
ATOM	5389	CA	VAL	X	359	64.090	36.878	59.262	0.00	0.00
ATOM	5390	HA	VAL	X	359	63.369	36.636	58.482	0.00	0.00
ATOM	5391	CB	VAL	X	359	64.094	35.786	60.348	0.00	0.00
ATOM	5392	HB	VAL	X	359	65.045	35.920	60.864	0.00	0.00
ATOM	5393	CG1	VAL	X	359	63.000	35.897	61.435	0.00	0.00
ATOM	5394	HG11	VAL	X	359	62.050	35.849	60.904	0.00	0.00
ATOM	5395	HG12	VAL	X	359	63.209	35.002	62.021	0.00	0.00
ATOM	5396	HG13	VAL	X	359	63.085	36.758	62.098	0.00	0.00
ATOM	5397	CG2	VAL	X	359	64.246	34.369	59.786	0.00	0.00
ATOM	5398	HG21	VAL	X	359	63.483	34.066	59.068	0.00	0.00
ATOM	5399	HG22	VAL	X	359	64.250	33.688	60.637	0.00	0.00
ATOM	5400	HG23	VAL	X	359	65.201	34.313	59.263	0.00	0.00
ATOM	5401	C	VAL	X	359	63.613	38.215	59.886	0.00	0.00
ATOM	5402	O	VAL	X	359	62.492	38.727	59.666	0.00	0.00
ATOM	5403	N	ARG	X	360	64.565	38.912	60.556	0.00	0.00
ATOM	5404	H	ARG	X	360	65.525	38.642	60.398	0.00	0.00
ATOM	5405	CA	ARG	X	360	64.339	40.171	61.257	0.00	0.00
ATOM	5406	HA	ARG	X	360	63.540	40.022	61.983	0.00	0.00
ATOM	5407	CB	ARG	X	360	65.546	40.745	61.935	0.00	0.00
ATOM	5408	HB2	ARG	X	360	66.405	40.509	61.308	0.00	0.00
ATOM	5409	HB3	ARG	X	360	65.462	41.817	62.110	0.00	0.00
ATOM	5410	CG	ARG	X	360	65.890	40.068	63.303	0.00	0.00
ATOM	5411	HG2	ARG	X	360	64.930	40.106	63.819	0.00	0.00
ATOM	5412	HG3	ARG	X	360	66.296	39.077	63.099	0.00	0.00
ATOM	5413	CD	ARG	X	360	66.993	40.805	64.128	0.00	0.00
ATOM	5414	HD2	ARG	X	360	66.723	41.861	64.126	0.00	0.00
ATOM	5415	HD3	ARG	X	360	67.029	40.453	65.159	0.00	0.00
ATOM	5416	NE	ARG	X	360	68.287	40.797	63.435	0.00	0.00
ATOM	5417	HE	ARG	X	360	68.254	41.300	62.560	0.00	0.00
ATOM	5418	CZ	ARG	X	360	69.458	40.651	64.015	0.00	0.00
ATOM	5419	NH1	ARG	X	360	69.561	39.986	65.158	0.00	0.00
ATOM	5420	HH11	ARG	X	360	68.778	39.742	65.748	0.00	0.00
ATOM	5421	HH12	ARG	X	360	70.505	39.683	65.351	0.00	0.00
ATOM	5422	NH2	ARG	X	360	70.599	40.974	63.419	0.00	0.00
ATOM	5423	HH21	ARG	X	360	70.669	41.351	62.484	0.00	0.00
ATOM	5424	HH22	ARG	X	360	71.445	40.922	63.967	0.00	0.00
ATOM	5425	C	ARG	X	360	63.894	41.270	60.241	0.00	0.00
ATOM	5426	O	ARG	X	360	63.216	42.211	60.655	0.00	0.00
ATOM	5427	N	VAL	X	361	64.060	41.100	58.943	0.00	0.00
ATOM	5428	H	VAL	X	361	64.763	40.430	58.665	0.00	0.00
ATOM	5429	CA	VAL	X	361	63.501	42.041	57.973	0.00	0.00
ATOM	5430	HA	VAL	X	361	63.140	42.946	58.462	0.00	0.00
ATOM	5431	CB	VAL	X	361	64.487	42.633	56.999	0.00	0.00
ATOM	5432	HB	VAL	X	361	63.916	43.336	56.393	0.00	0.00
ATOM	5433	CG1	VAL	X	361	65.778	43.339	57.541	0.00	0.00
ATOM	5434	HG11	VAL	X	361	66.114	42.671	58.334	0.00	0.00
ATOM	5435	HG12	VAL	X	361	66.545	43.625	56.822	0.00	0.00
ATOM	5436	HG13	VAL	X	361	65.412	44.232	58.048	0.00	0.00
ATOM	5437	CG2	VAL	X	361	65.025	41.599	55.959	0.00	0.00
ATOM	5438	HG21	VAL	X	361	65.841	41.025	56.398	0.00	0.00
ATOM	5439	HG22	VAL	X	361	65.503	42.038	55.083	0.00	0.00
ATOM	5440	HG23	VAL	X	361	64.257	41.068	55.397	0.00	0.00
ATOM	5441	C	VAL	X	361	62.201	41.480	57.279	0.00	0.00
ATOM	5442	O	VAL	X	361	61.237	42.211	57.001	0.00	0.00
ATOM	5443	N	GLY	X	362	62.060	40.185	57.029	0.00	0.00
ATOM	5444	H	GLY	X	362	62.659	39.526	57.506	0.00	0.00
ATOM	5445	CA	GLY	X	362	60.973	39.653	56.207	0.00	0.00
ATOM	5446	HA2	GLY	X	362	60.751	40.343	55.394	0.00	0.00
ATOM	5447	HA3	GLY	X	362	61.221	38.703	55.734	0.00	0.00
ATOM	5448	C	GLY	X	362	59.697	39.315	56.997	0.00	0.00
ATOM	5449	O	GLY	X	362	58.596	39.227	56.430	0.00	0.00
ATOM	5450	N	VAL	X	363	59.859	39.079	58.350	0.00	0.00
ATOM	5451	H	VAL	X	363	60.811	39.105	58.685	0.00	0.00
ATOM	5452	CA	VAL	X	363	58.674	38.842	59.229	0.00	0.00

ATOM	5453	HA	VAL	X	363	57.853	38.457	58.624	0.00	0.00
ATOM	5454	CB	VAL	X	363	59.013	37.807	60.357	0.00	0.00
ATOM	5455	HB	VAL	X	363	59.661	38.275	61.098	0.00	0.00
ATOM	5456	CG1	VAL	X	363	57.770	37.482	61.197	0.00	0.00
ATOM	5457	HG11	VAL	X	363	58.000	36.647	61.859	0.00	0.00
ATOM	5458	HG12	VAL	X	363	57.423	38.319	61.803	0.00	0.00
ATOM	5459	HG13	VAL	X	363	57.033	37.005	60.550	0.00	0.00
ATOM	5460	CG2	VAL	X	363	59.499	36.430	59.811	0.00	0.00
ATOM	5461	HG21	VAL	X	363	60.459	36.556	59.309	0.00	0.00
ATOM	5462	HG22	VAL	X	363	58.737	36.006	59.158	0.00	0.00
ATOM	5463	HG23	VAL	X	363	59.727	35.763	60.642	0.00	0.00
ATOM	5464	C	VAL	X	363	58.157	40.116	59.833	0.00	0.00
ATOM	5465	O	VAL	X	363	58.926	40.969	60.368	0.00	0.00
ATOM	5466	N	PRO	X	364	56.845	40.472	59.646	0.00	0.00
ATOM	5467	CD	PRO	X	364	55.830	39.782	58.903	0.00	0.00
ATOM	5468	HD2	PRO	X	364	55.764	38.731	59.182	0.00	0.00
ATOM	5469	HD3	PRO	X	364	56.041	39.891	57.839	0.00	0.00
ATOM	5470	CG	PRO	X	364	54.512	40.346	59.305	0.00	0.00
ATOM	5471	HG2	PRO	X	364	54.180	39.843	60.213	0.00	0.00
ATOM	5472	HG3	PRO	X	364	53.711	40.297	58.567	0.00	0.00
ATOM	5473	CB	PRO	X	364	54.792	41.766	59.609	0.00	0.00
ATOM	5474	HB2	PRO	X	364	54.090	42.144	60.352	0.00	0.00
ATOM	5475	HB3	PRO	X	364	54.728	42.408	58.731	0.00	0.00
ATOM	5476	CA	PRO	X	364	56.196	41.605	60.234	0.00	0.00
ATOM	5477	HA	PRO	X	364	56.775	42.515	60.075	0.00	0.00
ATOM	5478	C	PRO	X	364	56.109	41.541	61.735	0.00	0.00
ATOM	5479	O	PRO	X	364	55.603	40.564	62.323	0.00	0.00
ATOM	5480	N	GLN	X	365	56.654	42.565	62.445	0.00	0.00
ATOM	5481	H	GLN	X	365	57.137	43.324	61.987	0.00	0.00
ATOM	5482	CA	GLN	X	365	56.505	42.780	63.916	0.00	0.00
ATOM	5483	HA	GLN	X	365	57.012	43.733	64.063	0.00	0.00
ATOM	5484	CB	GLN	X	365	55.068	42.996	64.323	0.00	0.00
ATOM	5485	HB2	GLN	X	365	54.551	42.038	64.388	0.00	0.00
ATOM	5486	HB3	GLN	X	365	55.088	43.589	65.237	0.00	0.00
ATOM	5487	CG	GLN	X	365	54.220	43.821	63.326	0.00	0.00
ATOM	5488	HG2	GLN	X	365	54.801	44.651	62.922	0.00	0.00
ATOM	5489	HG3	GLN	X	365	54.032	43.116	62.516	0.00	0.00
ATOM	5490	CD	GLN	X	365	52.910	44.218	63.877	0.00	0.00
ATOM	5491	OE1	GLN	X	365	52.409	45.334	63.856	0.00	0.00
ATOM	5492	NE2	GLN	X	365	52.122	43.277	64.374	0.00	0.00
ATOM	5493	HE21	GLN	X	365	51.163	43.521	64.576	0.00	0.00
ATOM	5494	HE22	GLN	X	365	52.363	42.302	64.270	0.00	0.00
ATOM	5495	C	GLN	X	365	57.139	41.615	64.683	0.00	0.00
ATOM	5496	O	GLN	X	365	56.649	40.887	65.515	0.00	0.00
ATOM	5497	N	VAL	X	366	58.406	41.323	64.280	0.00	0.00
ATOM	5498	H	VAL	X	366	58.718	41.810	63.452	0.00	0.00
ATOM	5499	CA	VAL	X	366	59.318	40.255	64.849	0.00	0.00
ATOM	5500	HA	VAL	X	366	58.769	39.603	65.528	0.00	0.00
ATOM	5501	CB	VAL	X	366	60.043	39.370	63.787	0.00	0.00
ATOM	5502	HB	VAL	X	366	59.329	39.246	62.974	0.00	0.00
ATOM	5503	CG1	VAL	X	366	61.237	39.908	63.099	0.00	0.00
ATOM	5504	HG11	VAL	X	366	62.147	39.853	63.696	0.00	0.00
ATOM	5505	HG12	VAL	X	366	61.431	39.238	62.261	0.00	0.00
ATOM	5506	HG13	VAL	X	366	61.136	40.957	62.821	0.00	0.00
ATOM	5507	CG2	VAL	X	366	60.404	37.949	64.332	0.00	0.00
ATOM	5508	HG21	VAL	X	366	59.781	37.700	65.192	0.00	0.00
ATOM	5509	HG22	VAL	X	366	61.476	37.767	64.405	0.00	0.00
ATOM	5510	HG23	VAL	X	366	60.154	37.291	63.500	0.00	0.00
ATOM	5511	C	VAL	X	366	60.390	40.889	65.770	0.00	0.00
ATOM	5512	O	VAL	X	366	61.180	41.707	65.349	0.00	0.00
ATOM	5513	N	SER	X	367	60.427	40.355	66.939	0.00	0.00
ATOM	5514	H	SER	X	367	59.599	39.881	67.271	0.00	0.00
ATOM	5515	CA	SER	X	367	61.515	40.387	67.876	0.00	0.00
ATOM	5516	HA	SER	X	367	61.882	41.413	67.846	0.00	0.00
ATOM	5517	CB	SER	X	367	60.924	40.079	69.271	0.00	0.00
ATOM	5518	HB2	SER	X	367	61.664	40.351	70.023	0.00	0.00
ATOM	5519	HB3	SER	X	367	60.132	40.804	69.458	0.00	0.00

ATOM	5520	OG	SER	X	367	60.412	38.751	69.428	0.00	0.00
ATOM	5521	HG	SER	X	367	60.039	38.717	70.312	0.00	0.00
ATOM	5522	C	SER	X	367	62.678	39.541	67.665	0.00	0.00
ATOM	5523	O	SER	X	367	62.637	38.681	66.811	0.00	0.00
ATOM	5524	N	ASP	X	368	63.846	39.833	68.235	0.00	0.00
ATOM	5525	H	ASP	X	368	63.927	40.596	68.892	0.00	0.00
ATOM	5526	CA	ASP	X	368	65.060	39.001	68.074	0.00	0.00
ATOM	5527	HA	ASP	X	368	65.258	38.782	67.025	0.00	0.00
ATOM	5528	CB	ASP	X	368	66.295	39.851	68.608	0.00	0.00
ATOM	5529	HB2	ASP	X	368	66.172	40.826	68.136	0.00	0.00
ATOM	5530	HB3	ASP	X	368	66.192	40.043	69.676	0.00	0.00
ATOM	5531	CG	ASP	X	368	67.653	39.309	68.444	0.00	0.00
ATOM	5532	OD1	ASP	X	368	68.122	39.338	67.279	0.00	0.00
ATOM	5533	OD2	ASP	X	368	68.287	39.045	69.536	0.00	0.00
ATOM	5534	C	ASP	X	368	65.019	37.604	68.698	0.00	0.00
ATOM	5535	O	ASP	X	368	65.590	36.651	68.222	0.00	0.00
ATOM	5536	N	LEU	X	369	64.161	37.476	69.707	0.00	0.00
ATOM	5537	H	LEU	X	369	63.663	38.324	69.935	0.00	0.00
ATOM	5538	CA	LEU	X	369	63.843	36.266	70.591	0.00	0.00
ATOM	5539	HA	LEU	X	369	64.685	35.590	70.738	0.00	0.00
ATOM	5540	CB	LEU	X	369	63.219	36.684	71.830	0.00	0.00
ATOM	5541	HB2	LEU	X	369	63.930	37.353	72.315	0.00	0.00
ATOM	5542	HB3	LEU	X	369	62.317	37.242	71.579	0.00	0.00
ATOM	5543	CG	LEU	X	369	62.817	35.499	72.862	0.00	0.00
ATOM	5544	HG	LEU	X	369	62.161	34.796	72.349	0.00	0.00
ATOM	5545	CD1	LEU	X	369	64.005	34.676	73.406	0.00	0.00
ATOM	5546	HD11	LEU	X	369	64.630	34.363	72.570	0.00	0.00
ATOM	5547	HD12	LEU	X	369	63.664	33.696	73.740	0.00	0.00
ATOM	5548	HD13	LEU	X	369	64.611	35.160	74.171	0.00	0.00
ATOM	5549	CD2	LEU	X	369	62.109	36.040	74.108	0.00	0.00
ATOM	5550	HD21	LEU	X	369	61.698	35.314	74.810	0.00	0.00
ATOM	5551	HD22	LEU	X	369	62.707	36.800	74.613	0.00	0.00
ATOM	5552	HD23	LEU	X	369	61.218	36.585	73.798	0.00	0.00
ATOM	5553	C	LEU	X	369	62.924	35.308	69.781	0.00	0.00
ATOM	5554	O	LEU	X	369	63.085	34.090	69.715	0.00	0.00
ATOM	5555	N	ALA	X	370	62.073	35.948	68.926	0.00	0.00
ATOM	5556	H	ALA	X	370	62.070	36.947	69.075	0.00	0.00
ATOM	5557	CA	ALA	X	370	61.301	35.322	67.883	0.00	0.00
ATOM	5558	HA	ALA	X	370	60.765	34.483	68.326	0.00	0.00
ATOM	5559	CB	ALA	X	370	60.133	36.295	67.572	0.00	0.00
ATOM	5560	HB1	ALA	X	370	59.451	36.360	68.420	0.00	0.00
ATOM	5561	HB2	ALA	X	370	59.572	35.991	66.688	0.00	0.00
ATOM	5562	HB3	ALA	X	370	60.532	37.263	67.272	0.00	0.00
ATOM	5563	C	ALA	X	370	62.129	34.913	66.608	0.00	0.00
ATOM	5564	O	ALA	X	370	61.950	33.776	66.113	0.00	0.00
ATOM	5565	N	ALA	X	371	63.093	35.753	66.226	0.00	0.00
ATOM	5566	H	ALA	X	371	63.133	36.700	66.575	0.00	0.00
ATOM	5567	CA	ALA	X	371	63.822	35.478	65.003	0.00	0.00
ATOM	5568	HA	ALA	X	371	63.106	35.217	64.223	0.00	0.00
ATOM	5569	CB	ALA	X	371	64.538	36.787	64.589	0.00	0.00
ATOM	5570	HB1	ALA	X	371	65.232	37.168	65.338	0.00	0.00
ATOM	5571	HB2	ALA	X	371	63.765	37.497	64.292	0.00	0.00
ATOM	5572	HB3	ALA	X	371	65.091	36.490	63.698	0.00	0.00
ATOM	5573	C	ALA	X	371	64.702	34.285	65.250	0.00	0.00
ATOM	5574	O	ALA	X	371	64.712	33.327	64.470	0.00	0.00
ATOM	5575	N	GLU	X	372	65.376	34.127	66.430	0.00	0.00
ATOM	5576	H	GLU	X	372	65.390	34.907	67.072	0.00	0.00
ATOM	5577	CA	GLU	X	372	66.144	32.987	66.841	0.00	0.00
ATOM	5578	HA	GLU	X	372	66.934	32.796	66.115	0.00	0.00
ATOM	5579	CB	GLU	X	372	66.769	33.218	68.216	0.00	0.00
ATOM	5580	HB2	GLU	X	372	66.131	33.799	68.882	0.00	0.00
ATOM	5581	HB3	GLU	X	372	66.963	32.249	68.677	0.00	0.00
ATOM	5582	CG	GLU	X	372	68.077	33.909	68.114	0.00	0.00
ATOM	5583	HG2	GLU	X	372	68.651	33.400	67.340	0.00	0.00
ATOM	5584	HG3	GLU	X	372	68.002	34.961	67.838	0.00	0.00
ATOM	5585	CD	GLU	X	372	68.897	33.858	69.355	0.00	0.00
ATOM	5586	OE1	GLU	X	372	69.366	34.937	69.757	0.00	0.00

ATOM	5587	OE2	GLU	X	372	69.263	32.748	69.893	0.00	0.00
ATOM	5588	C	GLU	X	372	65.208	31.794	66.982	0.00	0.00
ATOM	5589	O	GLU	X	372	65.644	30.739	66.540	0.00	0.00
ATOM	5590	N	ALA	X	373	63.959	31.842	67.409	0.00	0.00
ATOM	5591	H	ALA	X	373	63.549	32.724	67.680	0.00	0.00
ATOM	5592	CA	ALA	X	373	63.006	30.738	67.445	0.00	0.00
ATOM	5593	HA	ALA	X	373	63.474	29.844	67.856	0.00	0.00
ATOM	5594	CB	ALA	X	373	61.830	31.224	68.298	0.00	0.00
ATOM	5595	HB1	ALA	X	373	61.333	32.147	68.001	0.00	0.00
ATOM	5596	HB2	ALA	X	373	62.206	31.363	69.312	0.00	0.00
ATOM	5597	HB3	ALA	X	373	61.059	30.454	68.329	0.00	0.00
ATOM	5598	C	ALA	X	373	62.535	30.281	65.987	0.00	0.00
ATOM	5599	O	ALA	X	373	62.459	29.064	65.713	0.00	0.00
ATOM	5600	N	VAL	X	374	62.406	31.250	65.037	0.00	0.00
ATOM	5601	H	VAL	X	374	62.341	32.211	65.340	0.00	0.00
ATOM	5602	CA	VAL	X	374	62.093	30.928	63.625	0.00	0.00
ATOM	5603	HA	VAL	X	374	61.207	30.296	63.564	0.00	0.00
ATOM	5604	CB	VAL	X	374	61.693	32.190	62.837	0.00	0.00
ATOM	5605	HB	VAL	X	374	62.482	32.925	62.997	0.00	0.00
ATOM	5606	CG1	VAL	X	374	61.667	32.073	61.284	0.00	0.00
ATOM	5607	HG11	VAL	X	374	62.523	31.536	60.876	0.00	0.00
ATOM	5608	HG12	VAL	X	374	60.810	31.505	60.924	0.00	0.00
ATOM	5609	HG13	VAL	X	374	61.487	33.070	60.881	0.00	0.00
ATOM	5610	CG2	VAL	X	374	60.377	32.793	63.347	0.00	0.00
ATOM	5611	HG21	VAL	X	374	60.185	33.695	62.767	0.00	0.00
ATOM	5612	HG22	VAL	X	374	60.289	33.118	64.384	0.00	0.00
ATOM	5613	HG23	VAL	X	374	59.596	32.048	63.195	0.00	0.00
ATOM	5614	C	VAL	X	374	63.309	30.208	63.005	0.00	0.00
ATOM	5615	O	VAL	X	374	63.154	29.178	62.375	0.00	0.00
ATOM	5616	N	VAL	X	375	64.514	30.697	63.235	0.00	0.00
ATOM	5617	H	VAL	X	375	64.576	31.590	63.703	0.00	0.00
ATOM	5618	CA	VAL	X	375	65.826	30.127	62.781	0.00	0.00
ATOM	5619	HA	VAL	X	375	65.732	29.881	61.723	0.00	0.00
ATOM	5620	CB	VAL	X	375	67.018	31.035	62.947	0.00	0.00
ATOM	5621	HB	VAL	X	375	67.156	31.355	63.980	0.00	0.00
ATOM	5622	CG1	VAL	X	375	68.329	30.270	62.485	0.00	0.00
ATOM	5623	HG11	VAL	X	375	68.277	30.028	61.424	0.00	0.00
ATOM	5624	HG12	VAL	X	375	69.247	30.818	62.696	0.00	0.00
ATOM	5625	HG13	VAL	X	375	68.460	29.313	62.990	0.00	0.00
ATOM	5626	CG2	VAL	X	375	66.798	32.277	62.055	0.00	0.00
ATOM	5627	HG21	VAL	X	375	66.768	32.045	60.991	0.00	0.00
ATOM	5628	HG22	VAL	X	375	67.601	32.992	62.231	0.00	0.00
ATOM	5629	HG23	VAL	X	375	65.858	32.760	62.324	0.00	0.00
ATOM	5630	C	VAL	X	375	66.029	28.684	63.447	0.00	0.00
ATOM	5631	O	VAL	X	375	66.532	27.762	62.757	0.00	0.00
ATOM	5632	N	LEU	X	376	65.594	28.451	64.702	0.00	0.00
ATOM	5633	H	LEU	X	376	65.439	29.215	65.343	0.00	0.00
ATOM	5634	CA	LEU	X	376	65.577	27.146	65.277	0.00	0.00
ATOM	5635	HA	LEU	X	376	66.611	26.820	65.166	0.00	0.00
ATOM	5636	CB	LEU	X	376	65.383	27.335	66.794	0.00	0.00
ATOM	5637	HB2	LEU	X	376	65.939	28.144	67.268	0.00	0.00
ATOM	5638	HB3	LEU	X	376	64.332	27.528	67.011	0.00	0.00
ATOM	5639	CG	LEU	X	376	65.703	26.115	67.707	0.00	0.00
ATOM	5640	HG	LEU	X	376	65.121	25.263	67.357	0.00	0.00
ATOM	5641	CD1	LEU	X	376	67.238	25.894	67.715	0.00	0.00
ATOM	5642	HD11	LEU	X	376	67.471	24.961	68.228	0.00	0.00
ATOM	5643	HD12	LEU	X	376	67.637	26.701	68.329	0.00	0.00
ATOM	5644	HD13	LEU	X	376	67.606	25.842	66.690	0.00	0.00
ATOM	5645	CD2	LEU	X	376	65.183	26.537	69.138	0.00	0.00
ATOM	5646	HD21	LEU	X	376	65.803	27.325	69.567	0.00	0.00
ATOM	5647	HD22	LEU	X	376	64.175	26.947	69.092	0.00	0.00
ATOM	5648	HD23	LEU	X	376	65.339	25.724	69.847	0.00	0.00
ATOM	5649	C	LEU	X	376	64.593	26.169	64.648	0.00	0.00
ATOM	5650	O	LEU	X	376	64.956	25.017	64.458	0.00	0.00
ATOM	5651	N	HIE	X	377	63.356	26.587	64.342	0.00	0.00
ATOM	5652	H	HIE	X	377	63.117	27.483	64.743	0.00	0.00
ATOM	5653	CA	HIE	X	377	62.311	25.790	63.697	0.00	0.00

ATOM	5654	HA	HIE	X	377	62.146	24.886	64.283	0.00	0.00
ATOM	5655	CB	HIE	X	377	61.036	26.638	63.654	0.00	0.00
ATOM	5656	HB2	HIE	X	377	60.776	26.847	64.692	0.00	0.00
ATOM	5657	HB3	HIE	X	377	61.249	27.562	63.117	0.00	0.00
ATOM	5658	CG	HIE	X	377	59.948	25.930	63.000	0.00	0.00
ATOM	5659	ND1	HIE	X	377	59.334	24.821	63.451	0.00	0.00
ATOM	5660	CE1	HIE	X	377	58.248	24.639	62.712	0.00	0.00
ATOM	5661	HE1	HIE	X	377	57.593	23.782	62.755	0.00	0.00
ATOM	5662	NE2	HIE	X	377	58.051	25.636	61.806	0.00	0.00
ATOM	5663	HE2	HIE	X	377	57.258	25.771	61.195	0.00	0.00
ATOM	5664	CD2	HIE	X	377	59.231	26.406	61.913	0.00	0.00
ATOM	5665	HD2	HIE	X	377	59.351	27.373	61.446	0.00	0.00
ATOM	5666	C	HIE	X	377	62.728	25.317	62.296	0.00	0.00
ATOM	5667	O	HIE	X	377	62.228	24.301	61.802	0.00	0.00
ATOM	5668	N	TYR	X	378	63.604	26.025	61.581	0.00	0.00
ATOM	5669	H	TYR	X	378	64.011	26.822	62.050	0.00	0.00
ATOM	5670	CA	TYR	X	378	64.250	25.732	60.308	0.00	0.00
ATOM	5671	HA	TYR	X	378	63.674	24.983	59.765	0.00	0.00
ATOM	5672	CB	TYR	X	378	64.166	27.002	59.416	0.00	0.00
ATOM	5673	HB2	TYR	X	378	64.483	27.842	60.034	0.00	0.00
ATOM	5674	HB3	TYR	X	378	64.911	26.871	58.631	0.00	0.00
ATOM	5675	CG	TYR	X	378	62.784	27.183	58.812	0.00	0.00
ATOM	5676	CD1	TYR	X	378	62.499	26.728	57.490	0.00	0.00
ATOM	5677	HD1	TYR	X	378	63.206	26.053	57.032	0.00	0.00
ATOM	5678	CE1	TYR	X	378	61.278	27.146	56.892	0.00	0.00
ATOM	5679	HE1	TYR	X	378	61.084	26.796	55.889	0.00	0.00
ATOM	5680	CZ	TYR	X	378	60.292	27.989	57.548	0.00	0.00
ATOM	5681	OH	TYR	X	378	59.103	28.376	57.077	0.00	0.00
ATOM	5682	HH	TYR	X	378	58.915	28.187	56.155	0.00	0.00
ATOM	5683	CE2	TYR	X	378	60.614	28.315	58.929	0.00	0.00
ATOM	5684	HE2	TYR	X	378	59.861	28.797	59.535	0.00	0.00
ATOM	5685	CD2	TYR	X	378	61.773	27.843	59.531	0.00	0.00
ATOM	5686	HD2	TYR	X	378	62.020	28.113	60.547	0.00	0.00
ATOM	5687	C	TYR	X	378	65.632	25.138	60.502	0.00	0.00
ATOM	5688	O	TYR	X	378	66.583	25.386	59.719	0.00	0.00
ATOM	5689	N	THR	X	379	65.783	24.261	61.526	0.00	0.00
ATOM	5690	H	THR	X	379	64.944	24.041	62.044	0.00	0.00
ATOM	5691	CA	THR	X	379	66.962	23.357	61.609	0.00	0.00
ATOM	5692	HA	THR	X	379	67.909	23.808	61.311	0.00	0.00
ATOM	5693	CB	THR	X	379	67.194	22.765	63.050	0.00	0.00
ATOM	5694	HB	THR	X	379	66.281	22.245	63.338	0.00	0.00
ATOM	5695	CG2	THR	X	379	68.326	21.785	63.258	0.00	0.00
ATOM	5696	HG21	THR	X	379	68.380	21.320	64.243	0.00	0.00
ATOM	5697	HG22	THR	X	379	69.303	22.266	63.194	0.00	0.00
ATOM	5698	HG23	THR	X	379	68.383	21.004	62.501	0.00	0.00
ATOM	5699	OG1	THR	X	379	67.355	23.771	64.053	0.00	0.00
ATOM	5700	HG1	THR	X	379	66.491	24.152	64.223	0.00	0.00
ATOM	5701	C	THR	X	379	66.770	22.107	60.661	0.00	0.00
ATOM	5702	O	THR	X	379	65.761	21.397	60.708	0.00	0.00
ATOM	5703	N	ASP	X	380	67.791	21.911	59.806	0.00	0.00
ATOM	5704	H	ASP	X	380	68.542	22.576	59.681	0.00	0.00
ATOM	5705	CA	ASP	X	380	67.814	20.854	58.835	0.00	0.00
ATOM	5706	HA	ASP	X	380	66.806	20.865	58.421	0.00	0.00
ATOM	5707	CB	ASP	X	380	68.804	21.103	57.752	0.00	0.00
ATOM	5708	HB2	ASP	X	380	68.787	22.188	57.648	0.00	0.00
ATOM	5709	HB3	ASP	X	380	69.795	20.767	58.055	0.00	0.00
ATOM	5710	CG	ASP	X	380	68.366	20.613	56.363	0.00	0.00
ATOM	5711	OD1	ASP	X	380	68.929	19.583	55.973	0.00	0.00
ATOM	5712	OD2	ASP	X	380	67.583	21.309	55.634	0.00	0.00
ATOM	5713	C	ASP	X	380	67.913	19.405	59.361	0.00	0.00
ATOM	5714	O	ASP	X	380	67.972	19.049	60.540	0.00	0.00
ATOM	5715	N	TRP	X	381	67.745	18.440	58.436	0.00	0.00
ATOM	5716	H	TRP	X	381	67.515	18.750	57.503	0.00	0.00
ATOM	5717	CA	TRP	X	381	67.875	16.985	58.526	0.00	0.00
ATOM	5718	HA	TRP	X	381	67.776	16.848	59.602	0.00	0.00
ATOM	5719	CB	TRP	X	381	66.785	16.233	57.663	0.00	0.00
ATOM	5720	HB2	TRP	X	381	66.776	15.158	57.842	0.00	0.00

ATOM	5721	HB3	TRP	X	381	65.784	16.555	57.951	0.00	0.00
ATOM	5722	CG	TRP	X	381	67.013	16.403	56.164	0.00	0.00
ATOM	5723	CD1	TRP	X	381	67.676	15.477	55.428	0.00	0.00
ATOM	5724	HD1	TRP	X	381	68.115	14.599	55.880	0.00	0.00
ATOM	5725	NE1	TRP	X	381	67.742	15.810	54.085	0.00	0.00
ATOM	5726	HE1	TRP	X	381	68.207	15.310	53.340	0.00	0.00
ATOM	5727	CE2	TRP	X	381	66.896	16.830	53.871	0.00	0.00
ATOM	5728	CZ2	TRP	X	381	66.446	17.328	52.719	0.00	0.00
ATOM	5729	HZ2	TRP	X	381	66.632	16.843	51.772	0.00	0.00
ATOM	5730	CH2	TRP	X	381	65.696	18.535	52.737	0.00	0.00
ATOM	5731	HH2	TRP	X	381	65.356	18.988	51.817	0.00	0.00
ATOM	5732	CZ3	TRP	X	381	65.381	19.142	53.958	0.00	0.00
ATOM	5733	HZ3	TRP	X	381	64.759	20.023	54.001	0.00	0.00
ATOM	5734	CE3	TRP	X	381	65.802	18.541	55.168	0.00	0.00
ATOM	5735	HE3	TRP	X	381	65.574	18.961	56.136	0.00	0.00
ATOM	5736	CD2	TRP	X	381	66.597	17.342	55.173	0.00	0.00
ATOM	5737	C	TRP	X	381	69.263	16.551	58.123	0.00	0.00
ATOM	5738	O	TRP	X	381	69.764	15.663	58.773	0.00	0.00
ATOM	5739	N	LEU	X	382	69.850	17.102	57.102	0.00	0.00
ATOM	5740	H	LEU	X	382	69.327	17.774	56.559	0.00	0.00
ATOM	5741	CA	LEU	X	382	71.334	16.924	56.634	0.00	0.00
ATOM	5742	HA	LEU	X	382	71.737	16.002	57.055	0.00	0.00
ATOM	5743	CB	LEU	X	382	71.392	16.955	55.121	0.00	0.00
ATOM	5744	HB2	LEU	X	382	70.618	16.345	54.656	0.00	0.00
ATOM	5745	HB3	LEU	X	382	71.258	17.981	54.781	0.00	0.00
ATOM	5746	CG	LEU	X	382	72.731	16.587	54.491	0.00	0.00
ATOM	5747	HG	LEU	X	382	73.586	17.062	54.972	0.00	0.00
ATOM	5748	CD1	LEU	X	382	72.991	14.989	54.494	0.00	0.00
ATOM	5749	HD11	LEU	X	382	73.995	14.739	54.152	0.00	0.00
ATOM	5750	HD12	LEU	X	382	72.336	14.350	53.902	0.00	0.00
ATOM	5751	HD13	LEU	X	382	72.963	14.545	55.489	0.00	0.00
ATOM	5752	CD2	LEU	X	382	72.638	17.100	53.038	0.00	0.00
ATOM	5753	HD21	LEU	X	382	72.752	18.184	53.009	0.00	0.00
ATOM	5754	HD22	LEU	X	382	73.447	16.763	52.390	0.00	0.00
ATOM	5755	HD23	LEU	X	382	71.698	16.802	52.575	0.00	0.00
ATOM	5756	C	LEU	X	382	72.279	18.051	57.299	0.00	0.00
ATOM	5757	O	LEU	X	382	73.279	17.695	57.923	0.00	0.00
ATOM	5758	N	HIE	X	383	71.916	19.301	57.103	0.00	0.00
ATOM	5759	H	HIE	X	383	71.035	19.514	56.657	0.00	0.00
ATOM	5760	CA	HIE	X	383	72.818	20.416	57.551	0.00	0.00
ATOM	5761	HA	HIE	X	383	73.272	20.272	58.531	0.00	0.00
ATOM	5762	CB	HIE	X	383	73.934	20.493	56.559	0.00	0.00
ATOM	5763	HB2	HIE	X	383	74.331	19.483	56.460	0.00	0.00
ATOM	5764	HB3	HIE	X	383	73.541	20.654	55.555	0.00	0.00
ATOM	5765	CG	HIE	X	383	75.035	21.390	56.867	0.00	0.00
ATOM	5766	ND1	HIE	X	383	75.390	22.070	58.065	0.00	0.00
ATOM	5767	CE1	HIE	X	383	76.363	22.942	57.829	0.00	0.00
ATOM	5768	HE1	HIE	X	383	76.860	23.608	58.519	0.00	0.00
ATOM	5769	NE2	HIE	X	383	76.802	22.795	56.569	0.00	0.00
ATOM	5770	HE2	HIE	X	383	77.720	23.119	56.298	0.00	0.00
ATOM	5771	CD2	HIE	X	383	76.031	21.818	55.987	0.00	0.00
ATOM	5772	HD2	HIE	X	383	76.086	21.567	54.938	0.00	0.00
ATOM	5773	C	HIE	X	383	72.085	21.755	57.707	0.00	0.00
ATOM	5774	O	HIE	X	383	71.673	22.388	56.682	0.00	0.00
ATOM	5775	N	PRO	X	384	71.914	22.296	58.955	0.00	0.00
ATOM	5776	CD	PRO	X	384	72.610	22.013	60.169	0.00	0.00
ATOM	5777	HD2	PRO	X	384	73.609	21.589	60.272	0.00	0.00
ATOM	5778	HD3	PRO	X	384	72.042	21.157	60.534	0.00	0.00
ATOM	5779	CG	PRO	X	384	72.416	23.237	61.177	0.00	0.00
ATOM	5780	HG2	PRO	X	384	73.136	24.030	60.973	0.00	0.00
ATOM	5781	HB3	PRO	X	384	72.291	22.983	62.229	0.00	0.00
ATOM	5782	CB	PRO	X	384	71.155	23.817	60.626	0.00	0.00
ATOM	5783	HB2	PRO	X	384	71.172	24.878	60.873	0.00	0.00
ATOM	5784	HB3	PRO	X	384	70.310	23.296	61.076	0.00	0.00
ATOM	5785	CA	PRO	X	384	71.240	23.585	59.128	0.00	0.00
ATOM	5786	HA	PRO	X	384	70.210	23.533	58.773	0.00	0.00
ATOM	5787	C	PRO	X	384	71.864	24.834	58.485	0.00	0.00

ATOM	5788	O	PRO	X	384	71.153	25.707	57.985	0.00	0.00
ATOM	5789	N	GLU	X	385	73.174	24.911	58.321	0.00	0.00
ATOM	5790	H	GLU	X	385	73.678	24.040	58.402	0.00	0.00
ATOM	5791	CA	GLU	X	385	73.976	26.153	58.001	0.00	0.00
ATOM	5792	HA	GLU	X	385	73.300	26.950	58.310	0.00	0.00
ATOM	5793	CB	GLU	X	385	75.140	26.105	58.971	0.00	0.00
ATOM	5794	HB2	GLU	X	385	75.675	25.157	59.023	0.00	0.00
ATOM	5795	HB3	GLU	X	385	75.897	26.803	58.613	0.00	0.00
ATOM	5796	CG	GLU	X	385	74.650	26.488	60.426	0.00	0.00
ATOM	5797	HG2	GLU	X	385	73.915	27.292	60.371	0.00	0.00
ATOM	5798	HG3	GLU	X	385	74.180	25.592	60.831	0.00	0.00
ATOM	5799	CD	GLU	X	385	75.792	27.030	61.298	0.00	0.00
ATOM	5800	OE1	GLU	X	385	76.338	26.210	62.019	0.00	0.00
ATOM	5801	OE2	GLU	X	385	76.123	28.215	61.196	0.00	0.00
ATOM	5802	C	GLU	X	385	74.454	26.144	56.526	0.00	0.00
ATOM	5803	O	GLU	X	385	75.455	26.790	56.178	0.00	0.00
ATOM	5804	N	ASP	X	386	73.976	25.287	55.640	0.00	0.00
ATOM	5805	H	ASP	X	386	73.081	24.889	55.887	0.00	0.00
ATOM	5806	CA	ASP	X	386	74.406	25.280	54.216	0.00	0.00
ATOM	5807	HA	ASP	X	386	75.495	25.292	54.161	0.00	0.00
ATOM	5808	CB	ASP	X	386	73.999	23.869	53.655	0.00	0.00
ATOM	5809	HB2	ASP	X	386	74.686	23.111	54.030	0.00	0.00
ATOM	5810	HB3	ASP	X	386	73.021	23.514	53.979	0.00	0.00
ATOM	5811	CG	ASP	X	386	74.119	23.807	52.124	0.00	0.00
ATOM	5812	OD1	ASP	X	386	73.646	24.715	51.420	0.00	0.00
ATOM	5813	OD2	ASP	X	386	74.744	22.812	51.673	0.00	0.00
ATOM	5814	C	ASP	X	386	73.866	26.491	53.531	0.00	0.00
ATOM	5815	O	ASP	X	386	72.687	26.795	53.803	0.00	0.00
ATOM	5816	N	PRO	X	387	74.620	27.356	52.819	0.00	0.00
ATOM	5817	CD	PRO	X	387	76.023	27.143	52.333	0.00	0.00
ATOM	5818	HD2	PRO	X	387	76.318	26.109	52.154	0.00	0.00
ATOM	5819	HD3	PRO	X	387	76.761	27.641	52.963	0.00	0.00
ATOM	5820	CG	PRO	X	387	76.065	27.973	51.052	0.00	0.00
ATOM	5821	HG2	PRO	X	387	75.492	27.544	50.230	0.00	0.00
ATOM	5822	HG3	PRO	X	387	77.082	28.141	50.697	0.00	0.00
ATOM	5823	CB	PRO	X	387	75.327	29.195	51.450	0.00	0.00
ATOM	5824	HB2	PRO	X	387	74.862	29.598	50.550	0.00	0.00
ATOM	5825	HB3	PRO	X	387	75.920	29.848	52.090	0.00	0.00
ATOM	5826	CA	PRO	X	387	74.134	28.674	52.283	0.00	0.00
ATOM	5827	HA	PRO	X	387	74.002	29.419	53.068	0.00	0.00
ATOM	5828	C	PRO	X	387	72.909	28.570	51.363	0.00	0.00
ATOM	5829	O	PRO	X	387	72.281	29.581	51.124	0.00	0.00
ATOM	5830	N	ALA	X	388	72.647	27.428	50.710	0.00	0.00
ATOM	5831	H	ALA	X	388	73.289	26.648	50.746	0.00	0.00
ATOM	5832	CA	ALA	X	388	71.448	27.212	49.883	0.00	0.00
ATOM	5833	HA	ALA	X	388	71.249	28.117	49.308	0.00	0.00
ATOM	5834	CB	ALA	X	388	71.927	26.204	48.913	0.00	0.00
ATOM	5835	HB1	ALA	X	388	72.275	25.299	49.411	0.00	0.00
ATOM	5836	HB2	ALA	X	388	72.814	26.488	48.347	0.00	0.00
ATOM	5837	HB3	ALA	X	388	71.099	25.877	48.285	0.00	0.00
ATOM	5838	C	ALA	X	388	70.291	26.691	50.794	0.00	0.00
ATOM	5839	O	ALA	X	388	69.226	27.317	50.737	0.00	0.00
ATOM	5840	N	ARG	X	389	70.587	25.759	51.686	0.00	0.00
ATOM	5841	H	ARG	X	389	71.516	25.362	51.659	0.00	0.00
ATOM	5842	CA	ARG	X	389	69.562	25.331	52.697	0.00	0.00
ATOM	5843	HA	ARG	X	389	68.790	24.831	52.112	0.00	0.00
ATOM	5844	CB	ARG	X	389	70.200	24.243	53.619	0.00	0.00
ATOM	5845	HB2	ARG	X	389	71.163	24.598	53.986	0.00	0.00
ATOM	5846	HB3	ARG	X	389	69.634	24.140	54.545	0.00	0.00
ATOM	5847	CG	ARG	X	389	70.380	22.880	52.848	0.00	0.00
ATOM	5848	HG2	ARG	X	389	69.394	22.678	52.430	0.00	0.00
ATOM	5849	HG3	ARG	X	389	71.120	23.014	52.059	0.00	0.00
ATOM	5850	CD	ARG	X	389	70.757	21.663	53.658	0.00	0.00
ATOM	5851	HD2	ARG	X	389	71.684	21.924	54.168	0.00	0.00
ATOM	5852	HD3	ARG	X	389	69.876	21.572	54.293	0.00	0.00
ATOM	5853	NE	ARG	X	389	70.847	20.459	52.824	0.00	0.00
ATOM	5854	HE	ARG	X	389	71.786	20.336	52.474	0.00	0.00

ATOM	5855	CZ	ARG	X	389	69.919	19.594	52.491	0.00	0.00
ATOM	5856	NH1	ARG	X	389	68.786	19.579	53.090	0.00	0.00
ATOM	5857	HH11	ARG	X	389	68.702	19.914	54.039	0.00	0.00
ATOM	5858	HH12	ARG	X	389	68.039	18.940	52.859	0.00	0.00
ATOM	5859	NH2	ARG	X	389	70.077	18.724	51.510	0.00	0.00
ATOM	5860	HH21	ARG	X	389	70.841	18.836	50.858	0.00	0.00
ATOM	5861	HH22	ARG	X	389	69.353	18.035	51.360	0.00	0.00
ATOM	5862	C	ARG	X	389	68.971	26.542	53.434	0.00	0.00
ATOM	5863	O	ARG	X	389	67.774	26.668	53.516	0.00	0.00
ATOM	5864	N	LEU	X	390	69.899	27.360	54.002	0.00	0.00
ATOM	5865	H	LEU	X	390	70.883	27.144	53.939	0.00	0.00
ATOM	5866	CA	LEU	X	390	69.521	28.617	54.648	0.00	0.00
ATOM	5867	HA	LEU	X	390	68.912	28.374	55.519	0.00	0.00
ATOM	5868	CB	LEU	X	390	70.741	29.449	55.145	0.00	0.00
ATOM	5869	HB2	LEU	X	390	71.316	29.573	54.227	0.00	0.00
ATOM	5870	HB3	LEU	X	390	70.488	30.415	55.583	0.00	0.00
ATOM	5871	CG	LEU	X	390	71.634	28.747	56.226	0.00	0.00
ATOM	5872	HG	LEU	X	390	71.781	27.678	56.076	0.00	0.00
ATOM	5873	CD1	LEU	X	390	72.984	29.420	56.449	0.00	0.00
ATOM	5874	HD11	LEU	X	390	73.497	29.389	55.488	0.00	0.00
ATOM	5875	HD12	LEU	X	390	73.537	29.018	57.298	0.00	0.00
ATOM	5876	HD13	LEU	X	390	72.833	30.469	56.705	0.00	0.00
ATOM	5877	CD2	LEU	X	390	70.880	28.838	57.543	0.00	0.00
ATOM	5878	HD21	LEU	X	390	70.747	29.847	57.935	0.00	0.00
ATOM	5879	HD22	LEU	X	390	69.877	28.419	57.469	0.00	0.00
ATOM	5880	HD23	LEU	X	390	71.397	28.189	58.250	0.00	0.00
ATOM	5881	C	LEU	X	390	68.673	29.537	53.714	0.00	0.00
ATOM	5882	O	LEU	X	390	67.597	29.928	54.184	0.00	0.00
ATOM	5883	N	ARG	X	391	69.127	29.794	52.478	0.00	0.00
ATOM	5884	H	ARG	X	391	69.951	29.325	52.130	0.00	0.00
ATOM	5885	CA	ARG	X	391	68.449	30.673	51.565	0.00	0.00
ATOM	5886	HA	ARG	X	391	68.514	31.679	51.980	0.00	0.00
ATOM	5887	CB	ARG	X	391	69.288	30.717	50.321	0.00	0.00
ATOM	5888	HB2	ARG	X	391	70.346	30.843	50.553	0.00	0.00
ATOM	5889	HB3	ARG	X	391	69.196	29.712	49.910	0.00	0.00
ATOM	5890	CG	ARG	X	391	68.706	31.723	49.240	0.00	0.00
ATOM	5891	HG2	ARG	X	391	67.645	31.496	49.139	0.00	0.00
ATOM	5892	HG3	ARG	X	391	68.973	32.744	49.512	0.00	0.00
ATOM	5893	CD	ARG	X	391	69.294	31.557	47.818	0.00	0.00
ATOM	5894	HD2	ARG	X	391	68.788	30.778	47.248	0.00	0.00
ATOM	5895	HD3	ARG	X	391	69.100	32.506	47.318	0.00	0.00
ATOM	5896	NE	ARG	X	391	70.799	31.309	48.009	0.00	0.00
ATOM	5897	HE	ARG	X	391	71.427	31.919	48.514	0.00	0.00
ATOM	5898	CZ	ARG	X	391	71.413	30.275	47.421	0.00	0.00
ATOM	5899	NH1	ARG	X	391	70.793	29.196	46.957	0.00	0.00
ATOM	5900	HH11	ARG	X	391	69.787	29.130	47.019	0.00	0.00
ATOM	5901	HH12	ARG	X	391	71.329	28.529	46.421	0.00	0.00
ATOM	5902	NH2	ARG	X	391	72.723	30.296	47.276	0.00	0.00
ATOM	5903	HH21	ARG	X	391	73.177	31.186	47.425	0.00	0.00
ATOM	5904	HH22	ARG	X	391	73.207	29.483	46.921	0.00	0.00
ATOM	5905	C	ARG	X	391	67.046	30.112	51.311	0.00	0.00
ATOM	5906	O	ARG	X	391	66.143	30.835	51.424	0.00	0.00
ATOM	5907	N	GLU	X	392	66.869	28.833	51.006	0.00	0.00
ATOM	5908	H	GLU	X	392	67.698	28.260	51.073	0.00	0.00
ATOM	5909	CA	GLU	X	392	65.667	28.120	50.872	0.00	0.00
ATOM	5910	HA	GLU	X	392	65.099	28.543	50.043	0.00	0.00
ATOM	5911	CB	GLU	X	392	65.997	26.664	50.446	0.00	0.00
ATOM	5912	HB2	GLU	X	392	66.759	26.661	49.666	0.00	0.00
ATOM	5913	HB3	GLU	X	392	66.406	26.058	51.254	0.00	0.00
ATOM	5914	CG	GLU	X	392	64.868	25.818	49.712	0.00	0.00
ATOM	5915	HG2	GLU	X	392	64.112	25.507	50.433	0.00	0.00
ATOM	5916	HG3	GLU	X	392	64.554	26.472	48.899	0.00	0.00
ATOM	5917	CD	GLU	X	392	65.530	24.589	49.099	0.00	0.00
ATOM	5918	OE1	GLU	X	392	65.309	23.533	49.668	0.00	0.00
ATOM	5919	OE2	GLU	X	392	66.092	24.749	47.966	0.00	0.00
ATOM	5920	C	GLU	X	392	64.784	28.087	52.133	0.00	0.00
ATOM	5921	O	GLU	X	392	63.507	27.813	51.966	0.00	0.00

ATOM	5922	N	ALA	X	393	65.416	28.186	53.300	0.00	0.00
ATOM	5923	H	ALA	X	393	66.414	28.333	53.354	0.00	0.00
ATOM	5924	CA	ALA	X	393	64.520	28.379	54.484	0.00	0.00
ATOM	5925	HA	ALA	X	393	63.706	27.656	54.427	0.00	0.00
ATOM	5926	CB	ALA	X	393	65.322	27.943	55.686	0.00	0.00
ATOM	5927	HB1	ALA	X	393	66.363	28.252	55.585	0.00	0.00
ATOM	5928	HB2	ALA	X	393	65.321	26.853	55.649	0.00	0.00
ATOM	5929	HB3	ALA	X	393	64.859	28.233	56.630	0.00	0.00
ATOM	5930	C	ALA	X	393	63.970	29.807	54.486	0.00	0.00
ATOM	5931	O	ALA	X	393	62.792	29.935	54.850	0.00	0.00
ATOM	5932	N	LEU	X	394	64.593	30.845	54.052	0.00	0.00
ATOM	5933	H	LEU	X	394	65.548	30.692	53.759	0.00	0.00
ATOM	5934	CA	LEU	X	394	64.111	32.249	54.091	0.00	0.00
ATOM	5935	HA	LEU	X	394	63.519	32.365	54.998	0.00	0.00
ATOM	5936	CB	LEU	X	394	65.286	33.267	54.172	0.00	0.00
ATOM	5937	HB2	LEU	X	394	65.775	33.051	55.122	0.00	0.00
ATOM	5938	HB3	LEU	X	394	65.862	33.063	53.269	0.00	0.00
ATOM	5939	CG	LEU	X	394	64.922	34.716	54.304	0.00	0.00
ATOM	5940	HG	LEU	X	394	64.234	35.094	53.548	0.00	0.00
ATOM	5941	CD1	LEU	X	394	64.335	35.165	55.644	0.00	0.00
ATOM	5942	HD11	LEU	X	394	63.427	34.578	55.780	0.00	0.00
ATOM	5943	HD12	LEU	X	394	64.062	36.215	55.540	0.00	0.00
ATOM	5944	HD13	LEU	X	394	65.011	34.976	56.478	0.00	0.00
ATOM	5945	CD2	LEU	X	394	66.154	35.583	54.145	0.00	0.00
ATOM	5946	HD21	LEU	X	394	66.700	35.434	53.213	0.00	0.00
ATOM	5947	HD22	LEU	X	394	65.883	36.638	54.118	0.00	0.00
ATOM	5948	HD23	LEU	X	394	66.865	35.313	54.927	0.00	0.00
ATOM	5949	C	LEU	X	394	63.069	32.507	53.001	0.00	0.00
ATOM	5950	O	LEU	X	394	62.184	33.319	53.262	0.00	0.00
ATOM	5951	N	SER	X	395	63.201	31.874	51.820	0.00	0.00
ATOM	5952	H	SER	X	395	64.036	31.369	51.562	0.00	0.00
ATOM	5953	CA	SER	X	395	62.092	31.886	50.956	0.00	0.00
ATOM	5954	HA	SER	X	395	61.800	32.920	50.773	0.00	0.00
ATOM	5955	CB	SER	X	395	62.405	31.222	49.615	0.00	0.00
ATOM	5956	HB2	SER	X	395	62.815	30.237	49.836	0.00	0.00
ATOM	5957	HB3	SER	X	395	61.505	30.871	49.112	0.00	0.00
ATOM	5958	OG	SER	X	395	63.283	31.928	48.737	0.00	0.00
ATOM	5959	HG	SER	X	395	63.563	31.247	48.122	0.00	0.00
ATOM	5960	C	SER	X	395	60.913	31.227	51.596	0.00	0.00
ATOM	5961	O	SER	X	395	59.802	31.828	51.499	0.00	0.00
ATOM	5962	N	ASP	X	396	61.093	30.155	52.342	0.00	0.00
ATOM	5963	H	ASP	X	396	62.014	29.773	52.502	0.00	0.00
ATOM	5964	CA	ASP	X	396	59.951	29.379	52.962	0.00	0.00
ATOM	5965	HA	ASP	X	396	59.095	29.284	52.294	0.00	0.00
ATOM	5966	CB	ASP	X	396	60.482	27.942	53.199	0.00	0.00
ATOM	5967	HB2	ASP	X	396	60.988	27.473	52.355	0.00	0.00
ATOM	5968	HB3	ASP	X	396	61.310	28.032	53.902	0.00	0.00
ATOM	5969	CG	ASP	X	396	59.388	26.938	53.504	0.00	0.00
ATOM	5970	OD1	ASP	X	396	59.091	26.095	52.616	0.00	0.00
ATOM	5971	OD2	ASP	X	396	58.938	26.818	54.580	0.00	0.00
ATOM	5972	C	ASP	X	396	59.326	30.180	54.075	0.00	0.00
ATOM	5973	O	ASP	X	396	58.112	30.308	54.163	0.00	0.00
ATOM	5974	N	VAL	X	397	60.105	30.966	54.820	0.00	0.00
ATOM	5975	H	VAL	X	397	61.076	30.697	54.741	0.00	0.00
ATOM	5976	CA	VAL	X	397	59.633	32.103	55.778	0.00	0.00
ATOM	5977	HA	VAL	X	397	58.957	31.641	56.497	0.00	0.00
ATOM	5978	CB	VAL	X	397	60.783	32.535	56.636	0.00	0.00
ATOM	5979	HB	VAL	X	397	61.612	32.781	55.973	0.00	0.00
ATOM	5980	CG1	VAL	X	397	60.427	33.750	57.533	0.00	0.00
ATOM	5981	HG11	VAL	X	397	59.601	33.593	58.227	0.00	0.00
ATOM	5982	HG12	VAL	X	397	61.276	33.843	58.209	0.00	0.00
ATOM	5983	HG13	VAL	X	397	60.236	34.640	56.933	0.00	0.00
ATOM	5984	CG2	VAL	X	397	61.216	31.370	57.572	0.00	0.00
ATOM	5985	HG21	VAL	X	397	60.439	31.103	58.289	0.00	0.00
ATOM	5986	HG22	VAL	X	397	61.952	31.738	58.287	0.00	0.00
ATOM	5987	HG23	VAL	X	397	61.581	30.568	56.930	0.00	0.00
ATOM	5988	C	VAL	X	397	59.047	33.320	55.085	0.00	0.00

ATOM	5989	O	VAL	X	397	57.922	33.769	55.475	0.00	0.00
ATOM	5990	N	VAL	X	398	59.669	33.895	54.082	0.00	0.00
ATOM	5991	H	VAL	X	398	60.506	33.496	53.682	0.00	0.00
ATOM	5992	CA	VAL	X	398	59.202	35.274	53.584	0.00	0.00
ATOM	5993	HA	VAL	X	398	59.273	35.930	54.451	0.00	0.00
ATOM	5994	CB	VAL	X	398	60.261	35.940	52.754	0.00	0.00
ATOM	5995	HB	VAL	X	398	60.587	35.294	51.939	0.00	0.00
ATOM	5996	CG1	VAL	X	398	59.811	37.210	52.023	0.00	0.00
ATOM	5997	HG11	VAL	X	398	59.362	37.793	52.827	0.00	0.00
ATOM	5998	HG12	VAL	X	398	60.601	37.718	51.470	0.00	0.00
ATOM	5999	HG13	VAL	X	398	59.215	36.915	51.159	0.00	0.00
ATOM	6000	CG2	VAL	X	398	61.383	36.484	53.734	0.00	0.00
ATOM	6001	HG21	VAL	X	398	60.956	37.036	54.572	0.00	0.00
ATOM	6002	HG22	VAL	X	398	62.175	37.048	53.242	0.00	0.00
ATOM	6003	HG23	VAL	X	398	61.875	35.678	54.279	0.00	0.00
ATOM	6004	C	VAL	X	398	57.719	35.298	52.979	0.00	0.00
ATOM	6005	O	VAL	X	398	57.105	36.356	52.985	0.00	0.00
ATOM	6006	N	GLY	X	399	57.212	34.118	52.517	0.00	0.00
ATOM	6007	H	GLY	X	399	57.830	33.322	52.588	0.00	0.00
ATOM	6008	CA	GLY	X	399	55.909	34.023	51.916	0.00	0.00
ATOM	6009	HA2	GLY	X	399	55.578	35.002	51.569	0.00	0.00
ATOM	6010	HA3	GLY	X	399	55.935	33.362	51.049	0.00	0.00
ATOM	6011	C	GLY	X	399	54.781	33.547	52.809	0.00	0.00
ATOM	6012	O	GLY	X	399	53.670	33.734	52.411	0.00	0.00
ATOM	6013	N	ASP	X	400	55.030	32.891	53.918	0.00	0.00
ATOM	6014	H	ASP	X	400	56.017	32.814	54.118	0.00	0.00
ATOM	6015	CA	ASP	X	400	54.009	32.287	54.818	0.00	0.00
ATOM	6016	HA	ASP	X	400	53.344	31.651	54.233	0.00	0.00
ATOM	6017	CB	ASP	X	400	54.750	31.456	55.863	0.00	0.00
ATOM	6018	HB2	ASP	X	400	55.751	31.797	56.128	0.00	0.00
ATOM	6019	HB3	ASP	X	400	54.313	31.661	56.840	0.00	0.00
ATOM	6020	CG	ASP	X	400	54.890	29.881	55.675	0.00	0.00
ATOM	6021	OD1	ASP	X	400	54.631	29.372	54.544	0.00	0.00
ATOM	6022	OD2	ASP	X	400	55.240	29.285	56.706	0.00	0.00
ATOM	6023	C	ASP	X	400	53.013	33.255	55.333	0.00	0.00
ATOM	6024	O	ASP	X	400	51.890	33.445	54.776	0.00	0.00
ATOM	6025	N	HIE	X	401	53.358	33.897	56.452	0.00	0.00
ATOM	6026	H	HIE	X	401	54.312	33.848	56.779	0.00	0.00
ATOM	6027	CA	HIE	X	401	52.585	34.857	57.222	0.00	0.00
ATOM	6028	HA	HIE	X	401	51.656	34.393	57.553	0.00	0.00
ATOM	6029	CB	HIE	X	401	53.375	35.356	58.492	0.00	0.00
ATOM	6030	HB2	HIE	X	401	52.948	36.260	58.927	0.00	0.00
ATOM	6031	HB3	HIE	X	401	53.314	34.669	59.336	0.00	0.00
ATOM	6032	CG	HIE	X	401	54.810	35.664	58.074	0.00	0.00
ATOM	6033	ND1	HIE	X	401	55.155	36.771	57.337	0.00	0.00
ATOM	6034	CE1	HIE	X	401	56.440	36.633	57.096	0.00	0.00
ATOM	6035	HE1	HIE	X	401	57.103	37.233	56.489	0.00	0.00
ATOM	6036	NE2	HIE	X	401	56.877	35.478	57.532	0.00	0.00
ATOM	6037	HE2	HIE	X	401	57.849	35.235	57.406	0.00	0.00
ATOM	6038	CD2	HIE	X	401	55.917	34.902	58.247	0.00	0.00
ATOM	6039	HD2	HIE	X	401	55.884	33.896	58.638	0.00	0.00
ATOM	6040	C	HIE	X	401	52.290	36.051	56.255	0.00	0.00
ATOM	6041	O	HIE	X	401	51.337	36.764	56.567	0.00	0.00
ATOM	6042	N	ASN	X	402	53.074	36.312	55.202	0.00	0.00
ATOM	6043	H	ASN	X	402	53.983	35.879	55.118	0.00	0.00
ATOM	6044	CA	ASN	X	402	52.794	37.376	54.183	0.00	0.00
ATOM	6045	HA	ASN	X	402	52.485	38.244	54.765	0.00	0.00
ATOM	6046	CB	ASN	X	402	54.051	37.883	53.449	0.00	0.00
ATOM	6047	HB2	ASN	X	402	54.563	36.991	53.088	0.00	0.00
ATOM	6048	HB3	ASN	X	402	53.704	38.394	52.551	0.00	0.00
ATOM	6049	CG	ASN	X	402	54.882	38.913	54.283	0.00	0.00
ATOM	6050	OD1	ASN	X	402	54.308	39.801	54.903	0.00	0.00
ATOM	6051	ND2	ASN	X	402	56.193	38.815	54.234	0.00	0.00
ATOM	6052	HD21	ASN	X	402	56.793	39.349	54.846	0.00	0.00
ATOM	6053	HD22	ASN	X	402	56.674	38.088	53.723	0.00	0.00
ATOM	6054	C	ASN	X	402	51.715	36.936	53.164	0.00	0.00
ATOM	6055	O	ASN	X	402	51.022	37.829	52.754	0.00	0.00

ATOM	6056	N	VAL	X	403	51.622	35.619	52.843	0.00	0.00
ATOM	6057	H	VAL	X	403	52.262	35.007	53.329	0.00	0.00
ATOM	6058	CA	VAL	X	403	50.745	35.103	51.741	0.00	0.00
ATOM	6059	HA	VAL	X	403	49.928	35.817	51.636	0.00	0.00
ATOM	6060	CB	VAL	X	403	51.401	35.273	50.349	0.00	0.00
ATOM	6061	HB	VAL	X	403	52.415	34.880	50.427	0.00	0.00
ATOM	6062	CG1	VAL	X	403	50.486	34.636	49.267	0.00	0.00
ATOM	6063	HG11	VAL	X	403	50.873	34.766	48.257	0.00	0.00
ATOM	6064	HG12	VAL	X	403	50.442	33.560	49.435	0.00	0.00
ATOM	6065	HG13	VAL	X	403	49.497	35.095	49.297	0.00	0.00
ATOM	6066	CG2	VAL	X	403	51.510	36.695	49.861	0.00	0.00
ATOM	6067	HG21	VAL	X	403	50.518	37.133	49.758	0.00	0.00
ATOM	6068	HG22	VAL	X	403	51.930	36.704	48.855	0.00	0.00
ATOM	6069	HG23	VAL	X	403	52.186	37.222	50.535	0.00	0.00
ATOM	6070	C	VAL	X	403	50.046	33.804	51.971	0.00	0.00
ATOM	6071	O	VAL	X	403	48.815	33.698	52.261	0.00	0.00
ATOM	6072	N	VAL	X	404	50.861	32.739	52.004	0.00	0.00
ATOM	6073	H	VAL	X	404	51.863	32.844	51.938	0.00	0.00
ATOM	6074	CA	VAL	X	404	50.382	31.354	52.036	0.00	0.00
ATOM	6075	HA	VAL	X	404	49.773	31.169	51.151	0.00	0.00
ATOM	6076	CB	VAL	X	404	51.515	30.284	51.888	0.00	0.00
ATOM	6077	HB	VAL	X	404	52.088	30.110	52.799	0.00	0.00
ATOM	6078	CG1	VAL	X	404	50.875	28.947	51.396	0.00	0.00
ATOM	6079	HG11	VAL	X	404	50.236	29.058	50.521	0.00	0.00
ATOM	6080	HG12	VAL	X	404	51.654	28.239	51.111	0.00	0.00
ATOM	6081	HG13	VAL	X	404	50.371	28.543	52.274	0.00	0.00
ATOM	6082	CG2	VAL	X	404	52.436	30.694	50.729	0.00	0.00
ATOM	6083	HG21	VAL	X	404	51.881	30.574	49.799	0.00	0.00
ATOM	6084	HG22	VAL	X	404	53.327	30.077	50.612	0.00	0.00
ATOM	6085	HG23	VAL	X	404	52.753	31.736	50.786	0.00	0.00
ATOM	6086	C	VAL	X	404	49.518	30.995	53.278	0.00	0.00
ATOM	6087	O	VAL	X	404	48.595	30.229	53.234	0.00	0.00
ATOM	6088	N	CYX	X	405	49.766	31.533	54.491	0.00	0.00
ATOM	6089	H	CYX	X	405	50.588	32.098	54.647	0.00	0.00
ATOM	6090	CA	CYX	X	405	48.882	31.560	55.595	0.00	0.00
ATOM	6091	HA	CYX	X	405	48.447	30.575	55.767	0.00	0.00
ATOM	6092	CB	CYX	X	405	49.646	31.782	56.899	0.00	0.00
ATOM	6093	HB2	CYX	X	405	50.179	32.731	56.844	0.00	0.00
ATOM	6094	HB3	CYX	X	405	48.916	31.812	57.708	0.00	0.00
ATOM	6095	SG	CYX	X	405	50.912	30.523	57.158	0.00	0.00
ATOM	6096	C	CYX	X	405	47.694	32.504	55.505	0.00	0.00
ATOM	6097	O	CYX	X	405	46.649	31.938	55.653	0.00	0.00
ATOM	6098	N	PRO	X	406	47.728	33.785	55.132	0.00	0.00
ATOM	6099	CD	PRO	X	406	48.896	34.637	55.314	0.00	0.00
ATOM	6100	HD2	PRO	X	406	49.568	34.326	54.515	0.00	0.00
ATOM	6101	HD3	PRO	X	406	49.356	34.523	56.295	0.00	0.00
ATOM	6102	CG	PRO	X	406	48.404	36.070	55.136	0.00	0.00
ATOM	6103	HG2	PRO	X	406	49.199	36.531	54.551	0.00	0.00
ATOM	6104	HG3	PRO	X	406	48.291	36.495	56.133	0.00	0.00
ATOM	6105	CB	PRO	X	406	47.182	35.968	54.338	0.00	0.00
ATOM	6106	HB2	PRO	X	406	47.317	36.055	53.260	0.00	0.00
ATOM	6107	HB3	PRO	X	406	46.435	36.728	54.569	0.00	0.00
ATOM	6108	CA	PRO	X	406	46.655	34.607	54.769	0.00	0.00
ATOM	6109	HA	PRO	X	406	46.107	34.884	55.669	0.00	0.00
ATOM	6110	C	PRO	X	406	45.651	33.938	53.718	0.00	0.00
ATOM	6111	O	PRO	X	406	44.431	33.929	53.933	0.00	0.00
ATOM	6112	N	VAL	X	407	46.140	33.243	52.667	0.00	0.00
ATOM	6113	H	VAL	X	407	47.125	33.315	52.457	0.00	0.00
ATOM	6114	CA	VAL	X	407	45.300	32.462	51.696	0.00	0.00
ATOM	6115	HA	VAL	X	407	44.386	32.960	51.374	0.00	0.00
ATOM	6116	CB	VAL	X	407	46.155	32.102	50.395	0.00	0.00
ATOM	6117	HB	VAL	X	407	47.057	31.592	50.733	0.00	0.00
ATOM	6118	CG1	VAL	X	407	45.504	31.158	49.431	0.00	0.00
ATOM	6119	HG11	VAL	X	407	44.527	31.556	49.160	0.00	0.00
ATOM	6120	HG12	VAL	X	407	46.180	31.013	48.588	0.00	0.00
ATOM	6121	HG13	VAL	X	407	45.297	30.214	49.935	0.00	0.00
ATOM	6122	CG2	VAL	X	407	46.571	33.439	49.581	0.00	0.00

ATOM	6123	HG21	VAL	X	407	47.300	33.187	48.810	0.00	0.00
ATOM	6124	HG22	VAL	X	407	46.995	34.229	50.201	0.00	0.00
ATOM	6125	HG23	VAL	X	407	45.739	33.994	49.148	0.00	0.00
ATOM	6126	C	VAL	X	407	44.740	31.207	52.394	0.00	0.00
ATOM	6127	O	VAL	X	407	43.467	31.069	52.429	0.00	0.00
ATOM	6128	N	ALA	X	408	45.568	30.386	53.095	0.00	0.00
ATOM	6129	H	ALA	X	408	46.570	30.499	53.152	0.00	0.00
ATOM	6130	CA	ALA	X	408	45.016	29.175	53.841	0.00	0.00
ATOM	6131	HA	ALA	X	408	44.502	28.570	53.094	0.00	0.00
ATOM	6132	CB	ALA	X	408	46.226	28.564	54.484	0.00	0.00
ATOM	6133	HB1	ALA	X	408	45.940	27.794	55.200	0.00	0.00
ATOM	6134	HB2	ALA	X	408	46.759	29.382	54.968	0.00	0.00
ATOM	6135	HB3	ALA	X	408	46.988	28.276	53.760	0.00	0.00
ATOM	6136	C	ALA	X	408	43.910	29.551	54.849	0.00	0.00
ATOM	6137	O	ALA	X	408	42.878	28.855	54.932	0.00	0.00
ATOM	6138	N	GLN	X	409	44.067	30.625	55.572	0.00	0.00
ATOM	6139	H	GLN	X	409	44.901	31.194	55.527	0.00	0.00
ATOM	6140	CA	GLN	X	409	43.110	30.872	56.661	0.00	0.00
ATOM	6141	HA	GLN	X	409	42.710	29.960	57.104	0.00	0.00
ATOM	6142	CB	GLN	X	409	43.679	31.744	57.742	0.00	0.00
ATOM	6143	HB2	GLN	X	409	44.253	32.511	57.222	0.00	0.00
ATOM	6144	HB3	GLN	X	409	42.893	32.260	58.293	0.00	0.00
ATOM	6145	CG	GLN	X	409	44.702	31.000	58.640	0.00	0.00
ATOM	6146	HG2	GLN	X	409	44.145	30.268	59.225	0.00	0.00
ATOM	6147	HG3	GLN	X	409	45.462	30.484	58.052	0.00	0.00
ATOM	6148	CD	GLN	X	409	45.326	31.953	59.587	0.00	0.00
ATOM	6149	OE1	GLN	X	409	45.271	33.134	59.432	0.00	0.00
ATOM	6150	NE2	GLN	X	409	46.030	31.525	60.630	0.00	0.00
ATOM	6151	HE21	GLN	X	409	46.591	32.228	61.090	0.00	0.00
ATOM	6152	HE22	GLN	X	409	46.149	30.540	60.822	0.00	0.00
ATOM	6153	C	GLN	X	409	41.838	31.587	56.145	0.00	0.00
ATOM	6154	O	GLN	X	409	40.782	31.382	56.738	0.00	0.00
ATOM	6155	N	LEU	X	410	41.972	32.373	55.024	0.00	0.00
ATOM	6156	H	LEU	X	410	42.885	32.281	54.602	0.00	0.00
ATOM	6157	CA	LEU	X	410	40.850	33.176	54.402	0.00	0.00
ATOM	6158	HA	LEU	X	410	40.243	33.724	55.123	0.00	0.00
ATOM	6159	CB	LEU	X	410	41.428	34.030	53.305	0.00	0.00
ATOM	6160	HB2	LEU	X	410	42.215	34.703	53.647	0.00	0.00
ATOM	6161	HB3	LEU	X	410	41.828	33.512	52.433	0.00	0.00
ATOM	6162	CG	LEU	X	410	40.273	34.913	52.794	0.00	0.00
ATOM	6163	HG	LEU	X	410	39.331	34.365	52.836	0.00	0.00
ATOM	6164	CD1	LEU	X	410	40.168	36.144	53.686	0.00	0.00
ATOM	6165	HD11	LEU	X	410	39.377	36.792	53.308	0.00	0.00
ATOM	6166	HD12	LEU	X	410	41.090	36.725	53.719	0.00	0.00
ATOM	6167	HD13	LEU	X	410	39.953	35.915	54.730	0.00	0.00
ATOM	6168	CD2	LEU	X	410	40.520	35.288	51.351	0.00	0.00
ATOM	6169	HD21	LEU	X	410	41.412	35.907	51.251	0.00	0.00
ATOM	6170	HD22	LEU	X	410	40.709	34.402	50.745	0.00	0.00
ATOM	6171	HD23	LEU	X	410	39.725	35.898	50.921	0.00	0.00
ATOM	6172	C	LEU	X	410	39.924	32.025	53.983	0.00	0.00
ATOM	6173	O	LEU	X	410	38.728	31.983	54.346	0.00	0.00
ATOM	6174	N	ALA	X	411	40.452	31.111	53.198	0.00	0.00
ATOM	6175	H	ALA	X	411	41.430	31.229	52.976	0.00	0.00
ATOM	6176	CA	ALA	X	411	39.811	29.934	52.632	0.00	0.00
ATOM	6177	HA	ALA	X	411	38.963	30.296	52.050	0.00	0.00
ATOM	6178	CB	ALA	X	411	40.807	29.264	51.639	0.00	0.00
ATOM	6179	HB1	ALA	X	411	40.267	28.354	51.380	0.00	0.00
ATOM	6180	HB2	ALA	X	411	41.827	29.063	51.967	0.00	0.00
ATOM	6181	HB3	ALA	X	411	40.804	29.689	50.635	0.00	0.00
ATOM	6182	C	ALA	X	411	39.250	28.896	53.654	0.00	0.00
ATOM	6183	O	ALA	X	411	38.400	28.024	53.365	0.00	0.00
ATOM	6184	N	GLY	X	412	39.561	29.184	54.907	0.00	0.00
ATOM	6185	H	GLY	X	412	40.290	29.870	55.039	0.00	0.00
ATOM	6186	CA	GLY	X	412	39.147	28.362	56.069	0.00	0.00
ATOM	6187	HA2	GLY	X	412	39.135	27.320	55.751	0.00	0.00
ATOM	6188	HA3	GLY	X	412	39.854	28.590	56.866	0.00	0.00
ATOM	6189	C	GLY	X	412	37.770	28.794	56.445	0.00	0.00

ATOM	6190	O	GLY	X	412	36.757	28.197	56.121	0.00	0.00
ATOM	6191	N	ARG	X	413	37.754	30.024	56.976	0.00	0.00
ATOM	6192	H	ARG	X	413	38.604	30.550	56.829	0.00	0.00
ATOM	6193	CA	ARG	X	413	36.486	30.760	57.078	0.00	0.00
ATOM	6194	HA	ARG	X	413	36.061	30.224	57.927	0.00	0.00
ATOM	6195	CB	ARG	X	413	36.780	32.195	57.423	0.00	0.00
ATOM	6196	HB2	ARG	X	413	37.453	32.373	58.261	0.00	0.00
ATOM	6197	HB3	ARG	X	413	37.107	32.740	56.537	0.00	0.00
ATOM	6198	CG	ARG	X	413	35.553	32.918	58.020	0.00	0.00
ATOM	6199	HG2	ARG	X	413	35.919	33.926	58.213	0.00	0.00
ATOM	6200	HG3	ARG	X	413	34.862	32.955	57.178	0.00	0.00
ATOM	6201	CD	ARG	X	413	34.920	32.480	59.303	0.00	0.00
ATOM	6202	HD2	ARG	X	413	34.746	31.404	59.328	0.00	0.00
ATOM	6203	HD3	ARG	X	413	35.582	32.834	60.093	0.00	0.00
ATOM	6204	NE	ARG	X	413	33.707	33.345	59.451	0.00	0.00
ATOM	6205	HE	ARG	X	413	33.591	34.139	58.838	0.00	0.00
ATOM	6206	CZ	ARG	X	413	32.707	33.126	60.369	0.00	0.00
ATOM	6207	NH1	ARG	X	413	32.790	32.236	61.373	0.00	0.00
ATOM	6208	HH11	ARG	X	413	33.581	31.608	61.384	0.00	0.00
ATOM	6209	HH12	ARG	X	413	32.128	32.106	62.124	0.00	0.00
ATOM	6210	NH2	ARG	X	413	31.600	33.846	60.372	0.00	0.00
ATOM	6211	HH21	ARG	X	413	31.498	34.587	59.693	0.00	0.00
ATOM	6212	HH22	ARG	X	413	30.830	33.774	61.021	0.00	0.00
ATOM	6213	C	ARG	X	413	35.394	30.729	55.950	0.00	0.00
ATOM	6214	O	ARG	X	413	34.226	30.610	56.259	0.00	0.00
ATOM	6215	N	LEU	X	414	35.873	30.836	54.737	0.00	0.00
ATOM	6216	H	LEU	X	414	36.848	31.049	54.581	0.00	0.00
ATOM	6217	CA	LEU	X	414	35.015	30.931	53.554	0.00	0.00
ATOM	6218	HA	LEU	X	414	34.214	31.662	53.665	0.00	0.00
ATOM	6219	CB	LEU	X	414	35.802	31.325	52.310	0.00	0.00
ATOM	6220	HB2	LEU	X	414	36.653	30.645	52.331	0.00	0.00
ATOM	6221	HB3	LEU	X	414	35.232	31.118	51.404	0.00	0.00
ATOM	6222	CG	LEU	X	414	36.284	32.780	52.305	0.00	0.00
ATOM	6223	HG	LEU	X	414	36.842	33.013	53.212	0.00	0.00
ATOM	6224	CD1	LEU	X	414	37.216	33.073	51.134	0.00	0.00
ATOM	6225	HD11	LEU	X	414	38.169	32.588	51.347	0.00	0.00
ATOM	6226	HD12	LEU	X	414	37.534	34.113	51.067	0.00	0.00
ATOM	6227	HD13	LEU	X	414	36.838	32.852	50.135	0.00	0.00
ATOM	6228	CD2	LEU	X	414	35.072	33.684	52.156	0.00	0.00
ATOM	6229	HD21	LEU	X	414	34.550	33.679	53.113	0.00	0.00
ATOM	6230	HD22	LEU	X	414	35.305	34.708	51.862	0.00	0.00
ATOM	6231	HD23	LEU	X	414	34.382	33.236	51.441	0.00	0.00
ATOM	6232	C	LEU	X	414	34.305	29.580	53.329	0.00	0.00
ATOM	6233	O	LEU	X	414	33.088	29.522	53.268	0.00	0.00
ATOM	6234	N	ALA	X	415	34.980	28.411	53.424	0.00	0.00
ATOM	6235	H	ALA	X	415	35.988	28.373	53.483	0.00	0.00
ATOM	6236	CA	ALA	X	415	34.378	27.035	53.443	0.00	0.00
ATOM	6237	HA	ALA	X	415	33.663	27.095	52.621	0.00	0.00
ATOM	6238	CB	ALA	X	415	35.372	25.991	52.928	0.00	0.00
ATOM	6239	HB1	ALA	X	415	36.006	25.613	53.731	0.00	0.00
ATOM	6240	HB2	ALA	X	415	36.110	26.337	52.204	0.00	0.00
ATOM	6241	HB3	ALA	X	415	34.872	25.147	52.452	0.00	0.00
ATOM	6242	C	ALA	X	415	33.567	26.707	54.707	0.00	0.00
ATOM	6243	O	ALA	X	415	32.586	26.010	54.560	0.00	0.00
ATOM	6244	N	ALA	X	416	33.977	27.168	55.891	0.00	0.00
ATOM	6245	H	ALA	X	416	34.835	27.678	56.042	0.00	0.00
ATOM	6246	CA	ALA	X	416	33.188	26.920	57.126	0.00	0.00
ATOM	6247	HA	ALA	X	416	32.981	25.873	57.347	0.00	0.00
ATOM	6248	CB	ALA	X	416	34.068	27.362	58.324	0.00	0.00
ATOM	6249	HB1	ALA	X	416	33.781	26.827	59.229	0.00	0.00
ATOM	6250	HB2	ALA	X	416	34.063	28.430	58.541	0.00	0.00
ATOM	6251	HB3	ALA	X	416	35.121	27.223	58.076	0.00	0.00
ATOM	6252	C	ALA	X	416	31.803	27.650	57.094	0.00	0.00
ATOM	6253	O	ALA	X	416	30.759	26.995	57.344	0.00	0.00
ATOM	6254	N	GLN	X	417	31.854	28.827	56.474	0.00	0.00
ATOM	6255	H	GLN	X	417	32.739	29.315	56.483	0.00	0.00
ATOM	6256	CA	GLN	X	417	30.644	29.602	56.239	0.00	0.00

ATOM	6257	HA	GLN	X	417	30.026	29.467	57.127	0.00	0.00
ATOM	6258	CB	GLN	X	417	30.833	31.122	56.093	0.00	0.00
ATOM	6259	HB2	GLN	X	417	31.580	31.264	55.311	0.00	0.00
ATOM	6260	HB3	GLN	X	417	29.912	31.668	55.888	0.00	0.00
ATOM	6261	CG	GLN	X	417	31.412	31.686	57.436	0.00	0.00
ATOM	6262	HG2	GLN	X	417	32.435	31.332	57.562	0.00	0.00
ATOM	6263	HG3	GLN	X	417	31.410	32.773	57.362	0.00	0.00
ATOM	6264	CD	GLN	X	417	30.646	31.216	58.738	0.00	0.00
ATOM	6265	OE1	GLN	X	417	31.187	30.509	59.613	0.00	0.00
ATOM	6266	NE2	GLN	X	417	29.333	31.394	58.923	0.00	0.00
ATOM	6267	HE21	GLN	X	417	28.950	30.965	59.754	0.00	0.00
ATOM	6268	HE22	GLN	X	417	28.729	31.904	58.295	0.00	0.00
ATOM	6269	C	GLN	X	417	29.893	29.120	54.973	0.00	0.00
ATOM	6270	O	GLN	X	417	28.736	29.554	54.751	0.00	0.00
ATOM	6271	N	GLY	X	418	30.335	28.167	54.142	0.00	0.00
ATOM	6272	H	GLY	X	418	31.183	27.722	54.463	0.00	0.00
ATOM	6273	CA	GLY	X	418	29.581	27.645	53.006	0.00	0.00
ATOM	6274	HA2	GLY	X	418	30.104	26.739	52.700	0.00	0.00
ATOM	6275	HA3	GLY	X	418	28.559	27.490	53.354	0.00	0.00
ATOM	6276	C	GLY	X	418	29.605	28.456	51.758	0.00	0.00
ATOM	6277	O	GLY	X	418	28.651	28.330	50.951	0.00	0.00
ATOM	6278	N	ALA	X	419	30.685	29.238	51.444	0.00	0.00
ATOM	6279	H	ALA	X	419	31.386	29.267	52.170	0.00	0.00
ATOM	6280	CA	ALA	X	419	31.050	29.527	50.095	0.00	0.00
ATOM	6281	HA	ALA	X	419	30.193	29.947	49.568	0.00	0.00
ATOM	6282	CB	ALA	X	419	32.042	30.682	50.156	0.00	0.00
ATOM	6283	HB1	ALA	X	419	31.571	31.617	50.459	0.00	0.00
ATOM	6284	HB2	ALA	X	419	32.504	30.796	49.175	0.00	0.00
ATOM	6285	HB3	ALA	X	419	32.809	30.416	50.883	0.00	0.00
ATOM	6286	C	ALA	X	419	31.553	28.337	49.312	0.00	0.00
ATOM	6287	O	ALA	X	419	32.132	27.389	49.892	0.00	0.00
ATOM	6288	N	ARG	X	420	31.382	28.330	47.942	0.00	0.00
ATOM	6289	H	ARG	X	420	30.852	29.022	47.431	0.00	0.00
ATOM	6290	CA	ARG	X	420	32.082	27.377	47.071	0.00	0.00
ATOM	6291	HA	ARG	X	420	32.155	26.445	47.631	0.00	0.00
ATOM	6292	CB	ARG	X	420	31.253	27.106	45.786	0.00	0.00
ATOM	6293	HB2	ARG	X	420	30.213	26.884	46.023	0.00	0.00
ATOM	6294	HB3	ARG	X	420	31.404	27.913	45.068	0.00	0.00
ATOM	6295	CG	ARG	X	420	31.771	25.799	45.205	0.00	0.00
ATOM	6296	HG2	ARG	X	420	31.571	25.768	44.134	0.00	0.00
ATOM	6297	HG3	ARG	X	420	32.859	25.796	45.275	0.00	0.00
ATOM	6298	CD	ARG	X	420	31.244	24.479	45.823	0.00	0.00
ATOM	6299	HD2	ARG	X	420	31.770	23.626	45.394	0.00	0.00
ATOM	6300	HD3	ARG	X	420	31.499	24.526	46.882	0.00	0.00
ATOM	6301	NE	ARG	X	420	29.860	24.353	45.450	0.00	0.00
ATOM	6302	HE	ARG	X	420	29.686	24.538	44.473	0.00	0.00
ATOM	6303	CZ	ARG	X	420	28.891	23.903	46.255	0.00	0.00
ATOM	6304	NH1	ARG	X	420	29.041	23.484	47.497	0.00	0.00
ATOM	6305	HH11	ARG	X	420	29.915	23.321	47.976	0.00	0.00
ATOM	6306	HH12	ARG	X	420	28.254	23.075	47.980	0.00	0.00
ATOM	6307	NH2	ARG	X	420	27.722	23.866	45.791	0.00	0.00
ATOM	6308	HH21	ARG	X	420	27.503	24.300	44.905	0.00	0.00
ATOM	6309	HH22	ARG	X	420	27.033	23.484	46.422	0.00	0.00
ATOM	6310	C	ARG	X	420	33.559	27.925	46.754	0.00	0.00
ATOM	6311	O	ARG	X	420	33.617	29.060	46.338	0.00	0.00
ATOM	6312	N	VAL	X	421	34.595	27.182	47.156	0.00	0.00
ATOM	6313	H	VAL	X	421	34.383	26.298	47.597	0.00	0.00
ATOM	6314	CA	VAL	X	421	35.950	27.686	47.171	0.00	0.00
ATOM	6315	HA	VAL	X	421	35.995	28.660	46.683	0.00	0.00
ATOM	6316	CB	VAL	X	421	36.540	27.844	48.614	0.00	0.00
ATOM	6317	HB	VAL	X	421	36.934	26.872	48.911	0.00	0.00
ATOM	6318	CG1	VAL	X	421	37.812	28.648	48.645	0.00	0.00
ATOM	6319	HG11	VAL	X	421	38.111	28.889	49.664	0.00	0.00
ATOM	6320	HG12	VAL	X	421	38.611	28.176	48.073	0.00	0.00
ATOM	6321	HG13	VAL	X	421	37.661	29.629	48.196	0.00	0.00
ATOM	6322	CG2	VAL	X	421	35.501	28.380	49.667	0.00	0.00
ATOM	6323	HG21	VAL	X	421	35.208	29.365	49.301	0.00	0.00

ATOM	6324	HG22	VAL	X	421	36.010	28.506	50.622	0.00	0.00
ATOM	6325	HG23	VAL	X	421	34.780	27.603	49.918	0.00	0.00
ATOM	6326	C	VAL	X	421	36.772	26.624	46.407	0.00	0.00
ATOM	6327	O	VAL	X	421	36.609	25.425	46.504	0.00	0.00
ATOM	6328	N	TYR	X	422	37.738	27.050	45.631	0.00	0.00
ATOM	6329	H	TYR	X	422	38.022	28.017	45.563	0.00	0.00
ATOM	6330	CA	TYR	X	422	38.595	26.137	44.843	0.00	0.00
ATOM	6331	HA	TYR	X	422	38.644	25.095	45.158	0.00	0.00
ATOM	6332	CB	TYR	X	422	38.115	26.176	43.380	0.00	0.00
ATOM	6333	HB2	TYR	X	422	37.977	27.201	43.034	0.00	0.00
ATOM	6334	HB3	TYR	X	422	38.898	25.640	42.844	0.00	0.00
ATOM	6335	CG	TYR	X	422	36.728	25.515	43.051	0.00	0.00
ATOM	6336	CD1	TYR	X	422	36.675	24.227	42.597	0.00	0.00
ATOM	6337	HD1	TYR	X	422	37.586	23.680	42.402	0.00	0.00
ATOM	6338	CE1	TYR	X	422	35.430	23.591	42.358	0.00	0.00
ATOM	6339	HE1	TYR	X	422	35.426	22.576	41.988	0.00	0.00
ATOM	6340	CZ	TYR	X	422	34.265	24.315	42.524	0.00	0.00
ATOM	6341	OH	TYR	X	422	33.044	23.677	42.451	0.00	0.00
ATOM	6342	HH	TYR	X	422	33.087	22.785	42.098	0.00	0.00
ATOM	6343	CE2	TYR	X	422	34.341	25.695	42.765	0.00	0.00
ATOM	6344	HE2	TYR	X	422	33.407	26.224	42.881	0.00	0.00
ATOM	6345	CD2	TYR	X	422	35.559	26.314	42.987	0.00	0.00
ATOM	6346	HD2	TYR	X	422	35.517	27.326	43.360	0.00	0.00
ATOM	6347	C	TYR	X	422	39.979	26.695	44.812	0.00	0.00
ATOM	6348	O	TYR	X	422	40.140	27.885	44.713	0.00	0.00
ATOM	6349	N	ALA	X	423	41.022	25.845	44.948	0.00	0.00
ATOM	6350	H	ALA	X	423	40.824	24.854	44.962	0.00	0.00
ATOM	6351	CA	ALA	X	423	42.382	26.181	45.309	0.00	0.00
ATOM	6352	HA	ALA	X	423	42.462	27.255	45.138	0.00	0.00
ATOM	6353	CB	ALA	X	423	42.669	26.126	46.819	0.00	0.00
ATOM	6354	HB1	ALA	X	423	43.649	26.557	47.021	0.00	0.00
ATOM	6355	HB2	ALA	X	423	42.542	25.103	47.172	0.00	0.00
ATOM	6356	HB3	ALA	X	423	41.925	26.718	47.353	0.00	0.00
ATOM	6357	C	ALA	X	423	43.551	25.512	44.480	0.00	0.00
ATOM	6358	O	ALA	X	423	43.563	24.237	44.151	0.00	0.00
ATOM	6359	N	TYR	X	424	44.589	26.355	44.261	0.00	0.00
ATOM	6360	H	TYR	X	424	44.523	27.340	44.471	0.00	0.00
ATOM	6361	CA	TYR	X	424	45.803	25.861	43.517	0.00	0.00
ATOM	6362	HA	TYR	X	424	45.745	24.772	43.530	0.00	0.00
ATOM	6363	CB	TYR	X	424	45.718	26.204	42.037	0.00	0.00
ATOM	6364	HB2	TYR	X	424	46.470	25.697	41.431	0.00	0.00
ATOM	6365	HB3	TYR	X	424	44.776	25.729	41.762	0.00	0.00
ATOM	6366	CG	TYR	X	424	45.780	27.626	41.661	0.00	0.00
ATOM	6367	CD1	TYR	X	424	47.048	28.229	41.300	0.00	0.00
ATOM	6368	HD1	TYR	X	424	47.959	27.652	41.361	0.00	0.00
ATOM	6369	CE1	TYR	X	424	47.122	29.583	41.029	0.00	0.00
ATOM	6370	HE1	TYR	X	424	48.071	30.050	40.809	0.00	0.00
ATOM	6371	CZ	TYR	X	424	46.023	30.418	41.211	0.00	0.00
ATOM	6372	OH	TYR	X	424	46.184	31.758	40.843	0.00	0.00
ATOM	6373	HH	TYR	X	424	47.095	31.992	40.653	0.00	0.00
ATOM	6374	CE2	TYR	X	424	44.752	29.939	41.481	0.00	0.00
ATOM	6375	HE2	TYR	X	424	43.930	30.602	41.706	0.00	0.00
ATOM	6376	CD2	TYR	X	424	44.593	28.515	41.648	0.00	0.00
ATOM	6377	HD2	TYR	X	424	43.629	28.143	41.962	0.00	0.00
ATOM	6378	C	TYR	X	424	47.184	26.322	44.065	0.00	0.00
ATOM	6379	O	TYR	X	424	47.334	27.366	44.724	0.00	0.00
ATOM	6380	N	VAL	X	425	48.245	25.500	43.644	0.00	0.00
ATOM	6381	H	VAL	X	425	48.012	24.731	43.033	0.00	0.00
ATOM	6382	CA	VAL	X	425	49.679	25.902	43.672	0.00	0.00
ATOM	6383	HA	VAL	X	425	49.826	26.936	43.985	0.00	0.00
ATOM	6384	CB	VAL	X	425	50.596	24.991	44.481	0.00	0.00
ATOM	6385	HB	VAL	X	425	50.388	25.250	45.519	0.00	0.00
ATOM	6386	CG1	VAL	X	425	50.298	23.414	44.286	0.00	0.00
ATOM	6387	HG11	VAL	X	425	50.485	23.160	43.243	0.00	0.00
ATOM	6388	HG12	VAL	X	425	51.161	22.976	44.788	0.00	0.00
ATOM	6389	HG13	VAL	X	425	49.385	22.910	44.603	0.00	0.00
ATOM	6390	CG2	VAL	X	425	52.102	25.412	44.245	0.00	0.00

ATOM	6391	HG21	VAL	X	425	52.798	24.831	44.851	0.00	0.00
ATOM	6392	HG22	VAL	X	425	52.310	26.461	44.456	0.00	0.00
ATOM	6393	HG23	VAL	X	425	52.407	25.197	43.221	0.00	0.00
ATOM	6394	C	VAL	X	425	50.079	25.776	42.145	0.00	0.00
ATOM	6395	O	VAL	X	425	49.998	24.713	41.524	0.00	0.00
ATOM	6396	N	PHE	X	426	50.626	26.855	41.631	0.00	0.00
ATOM	6397	H	PHE	X	426	50.729	27.652	42.242	0.00	0.00
ATOM	6398	CA	PHE	X	426	51.263	26.846	40.306	0.00	0.00
ATOM	6399	HA	PHE	X	426	50.703	26.151	39.681	0.00	0.00
ATOM	6400	CB	PHE	X	426	51.182	28.207	39.751	0.00	0.00
ATOM	6401	HB2	PHE	X	426	50.145	28.524	39.646	0.00	0.00
ATOM	6402	HB3	PHE	X	426	51.665	28.919	40.422	0.00	0.00
ATOM	6403	CG	PHE	X	426	51.748	28.252	38.350	0.00	0.00
ATOM	6404	CD1	PHE	X	426	51.007	27.861	37.194	0.00	0.00
ATOM	6405	HD1	PHE	X	426	50.001	27.477	37.276	0.00	0.00
ATOM	6406	CE1	PHE	X	426	51.550	27.961	35.898	0.00	0.00
ATOM	6407	HE1	PHE	X	426	50.948	27.588	35.082	0.00	0.00
ATOM	6408	CZ	PHE	X	426	52.832	28.493	35.775	0.00	0.00
ATOM	6409	HZ	PHE	X	426	53.215	28.701	34.787	0.00	0.00
ATOM	6410	CE2	PHE	X	426	53.577	28.820	36.859	0.00	0.00
ATOM	6411	HE2	PHE	X	426	54.596	29.165	36.761	0.00	0.00
ATOM	6412	CD2	PHE	X	426	53.067	28.688	38.196	0.00	0.00
ATOM	6413	HD2	PHE	X	426	53.702	29.163	38.929	0.00	0.00
ATOM	6414	C	PHE	X	426	52.728	26.416	40.433	0.00	0.00
ATOM	6415	O	PHE	X	426	53.470	27.092	41.202	0.00	0.00
ATOM	6416	N	GLU	X	427	53.160	25.328	39.802	0.00	0.00
ATOM	6417	H	GLU	X	427	52.429	24.793	39.355	0.00	0.00
ATOM	6418	CA	GLU	X	427	54.495	24.679	39.955	0.00	0.00
ATOM	6419	HA	GLU	X	427	55.161	25.116	40.699	0.00	0.00
ATOM	6420	CB	GLU	X	427	54.282	23.193	40.332	0.00	0.00
ATOM	6421	HB2	GLU	X	427	53.856	22.690	39.463	0.00	0.00
ATOM	6422	HB3	GLU	X	427	55.208	22.629	40.438	0.00	0.00
ATOM	6423	CG	GLU	X	427	53.382	23.072	41.523	0.00	0.00
ATOM	6424	HG2	GLU	X	427	53.752	23.591	42.407	0.00	0.00
ATOM	6425	HG3	GLU	X	427	52.343	23.300	41.283	0.00	0.00
ATOM	6426	CD	GLU	X	427	53.153	21.602	41.890	0.00	0.00
ATOM	6427	OE1	GLU	X	427	53.613	20.622	41.310	0.00	0.00
ATOM	6428	OE2	GLU	X	427	52.447	21.395	42.885	0.00	0.00
ATOM	6429	C	GLU	X	427	55.359	24.682	38.685	0.00	0.00
ATOM	6430	O	GLU	X	427	56.573	24.462	38.784	0.00	0.00
ATOM	6431	N	HIE	X	428	54.805	25.030	37.565	0.00	0.00
ATOM	6432	H	HIE	X	428	53.811	25.207	37.545	0.00	0.00
ATOM	6433	CA	HIE	X	428	55.565	25.021	36.341	0.00	0.00
ATOM	6434	HA	HIE	X	428	56.162	24.109	36.345	0.00	0.00
ATOM	6435	CB	HIE	X	428	54.745	25.070	35.081	0.00	0.00
ATOM	6436	HB2	HIE	X	428	54.224	24.132	34.894	0.00	0.00
ATOM	6437	HB3	HIE	X	428	53.945	25.808	35.018	0.00	0.00
ATOM	6438	CG	HIE	X	428	55.594	25.235	33.855	0.00	0.00
ATOM	6439	ND1	HIE	X	428	56.439	24.254	33.407	0.00	0.00
ATOM	6440	CE1	HIE	X	428	57.103	24.765	32.362	0.00	0.00
ATOM	6441	HE1	HIE	X	428	57.978	24.286	31.947	0.00	0.00
ATOM	6442	NE2	HIE	X	428	56.584	25.970	31.991	0.00	0.00
ATOM	6443	HE2	HIE	X	428	56.958	26.624	31.318	0.00	0.00
ATOM	6444	CD2	HIE	X	428	55.668	26.288	33.017	0.00	0.00
ATOM	6445	HD2	HIE	X	428	55.087	27.199	33.031	0.00	0.00
ATOM	6446	C	HIE	X	428	56.593	26.156	36.259	0.00	0.00
ATOM	6447	O	HIE	X	428	56.201	27.321	36.345	0.00	0.00
ATOM	6448	N	ARG	X	429	57.875	25.906	36.018	0.00	0.00
ATOM	6449	H	ARG	X	429	58.093	24.928	35.893	0.00	0.00
ATOM	6450	CA	ARG	X	429	58.875	26.917	35.876	0.00	0.00
ATOM	6451	HA	ARG	X	429	58.651	27.836	36.418	0.00	0.00
ATOM	6452	CB	ARG	X	429	60.217	26.460	36.570	0.00	0.00
ATOM	6453	HB2	ARG	X	429	60.023	26.147	37.596	0.00	0.00
ATOM	6454	HB3	ARG	X	429	60.743	25.670	36.034	0.00	0.00
ATOM	6455	CG	ARG	X	429	61.092	27.717	36.751	0.00	0.00
ATOM	6456	HG2	ARG	X	429	61.445	27.940	35.744	0.00	0.00
ATOM	6457	HG3	ARG	X	429	60.697	28.580	37.287	0.00	0.00

ATOM	6458	CD	ARG	X	429	62.294	27.334	37.710	0.00	0.00
ATOM	6459	HD2	ARG	X	429	61.913	26.961	38.660	0.00	0.00
ATOM	6460	HD3	ARG	X	429	62.833	26.465	37.333	0.00	0.00
ATOM	6461	NE	ARG	X	429	63.181	28.479	37.902	0.00	0.00
ATOM	6462	HE	ARG	X	429	62.970	29.010	38.734	0.00	0.00
ATOM	6463	CZ	ARG	X	429	64.121	28.990	37.113	0.00	0.00
ATOM	6464	NH1	ARG	X	429	64.606	28.315	36.113	0.00	0.00
ATOM	6465	HH11	ARG	X	429	64.160	27.439	35.879	0.00	0.00
ATOM	6466	HH12	ARG	X	429	65.359	28.638	35.523	0.00	0.00
ATOM	6467	NH2	ARG	X	429	64.568	30.224	37.282	0.00	0.00
ATOM	6468	HH21	ARG	X	429	64.287	30.790	38.070	0.00	0.00
ATOM	6469	HH22	ARG	X	429	65.192	30.561	36.563	0.00	0.00
ATOM	6470	C	ARG	X	429	58.988	27.174	34.352	0.00	0.00
ATOM	6471	O	ARG	X	429	59.457	26.297	33.603	0.00	0.00
ATOM	6472	N	ALA	X	430	58.487	28.262	33.906	0.00	0.00
ATOM	6473	H	ALA	X	430	57.987	28.883	34.526	0.00	0.00
ATOM	6474	CA	ALA	X	430	58.402	28.767	32.531	0.00	0.00
ATOM	6475	HA	ALA	X	430	57.832	28.121	31.863	0.00	0.00
ATOM	6476	CB	ALA	X	430	57.736	30.165	32.453	0.00	0.00
ATOM	6477	HB1	ALA	X	430	57.852	30.479	31.416	0.00	0.00
ATOM	6478	HB2	ALA	X	430	58.238	30.840	33.147	0.00	0.00
ATOM	6479	HB3	ALA	X	430	56.705	30.039	32.784	0.00	0.00
ATOM	6480	C	ALA	X	430	59.775	28.743	31.923	0.00	0.00
ATOM	6481	O	ALA	X	430	60.749	29.028	32.552	0.00	0.00
ATOM	6482	N	SER	X	431	59.910	28.446	30.590	0.00	0.00
ATOM	6483	H	SER	X	431	59.139	27.988	30.126	0.00	0.00
ATOM	6484	CA	SER	X	431	61.158	28.467	29.819	0.00	0.00
ATOM	6485	HA	SER	X	431	61.801	27.984	30.555	0.00	0.00
ATOM	6486	CB	SER	X	431	61.221	27.460	28.678	0.00	0.00
ATOM	6487	HB2	SER	X	431	62.239	27.445	28.291	0.00	0.00
ATOM	6488	HB3	SER	X	431	61.037	26.429	28.981	0.00	0.00
ATOM	6489	OG	SER	X	431	60.341	27.773	27.602	0.00	0.00
ATOM	6490	HG	SER	X	431	59.506	27.345	27.804	0.00	0.00
ATOM	6491	C	SER	X	431	61.669	29.861	29.557	0.00	0.00
ATOM	6492	O	SER	X	431	62.878	30.005	29.199	0.00	0.00
ATOM	6493	N	THR	X	432	60.798	30.909	29.661	0.00	0.00
ATOM	6494	H	THR	X	432	59.823	30.690	29.809	0.00	0.00
ATOM	6495	CA	THR	X	432	61.062	32.321	29.427	0.00	0.00
ATOM	6496	HA	THR	X	432	61.903	32.351	28.735	0.00	0.00
ATOM	6497	CB	THR	X	432	59.870	32.888	28.636	0.00	0.00
ATOM	6498	HB	THR	X	432	60.002	33.970	28.613	0.00	0.00
ATOM	6499	CG2	THR	X	432	59.845	32.234	27.214	0.00	0.00
ATOM	6500	HG21	THR	X	432	59.701	31.156	27.290	0.00	0.00
ATOM	6501	HG22	THR	X	432	60.755	32.546	26.701	0.00	0.00
ATOM	6502	HG23	THR	X	432	58.984	32.592	26.651	0.00	0.00
ATOM	6503	OG1	THR	X	432	58.714	32.532	29.335	0.00	0.00
ATOM	6504	HG1	THR	X	432	58.441	31.641	29.107	0.00	0.00
ATOM	6505	C	THR	X	432	61.272	33.117	30.700	0.00	0.00
ATOM	6506	O	THR	X	432	61.530	34.291	30.583	0.00	0.00
ATOM	6507	N	LEU	X	433	61.359	32.449	31.861	0.00	0.00
ATOM	6508	H	LEU	X	433	61.317	31.442	31.923	0.00	0.00
ATOM	6509	CA	LEU	X	433	61.659	33.025	33.135	0.00	0.00
ATOM	6510	HA	LEU	X	433	60.975	33.849	33.336	0.00	0.00
ATOM	6511	CB	LEU	X	433	61.327	32.076	34.284	0.00	0.00
ATOM	6512	HB2	LEU	X	433	60.539	31.367	34.030	0.00	0.00
ATOM	6513	HB3	LEU	X	433	62.187	31.423	34.432	0.00	0.00
ATOM	6514	CG	LEU	X	433	60.861	32.750	35.602	0.00	0.00
ATOM	6515	HG	LEU	X	433	61.464	33.646	35.749	0.00	0.00
ATOM	6516	CD1	LEU	X	433	59.408	33.290	35.503	0.00	0.00
ATOM	6517	HD11	LEU	X	433	58.755	32.491	35.153	0.00	0.00
ATOM	6518	HD12	LEU	X	433	59.473	34.124	34.805	0.00	0.00
ATOM	6519	HD13	LEU	X	433	58.997	33.624	36.456	0.00	0.00
ATOM	6520	CD2	LEU	X	433	61.139	31.855	36.750	0.00	0.00
ATOM	6521	HD21	LEU	X	433	60.836	30.829	36.543	0.00	0.00
ATOM	6522	HD22	LEU	X	433	62.211	31.837	36.947	0.00	0.00
ATOM	6523	HD23	LEU	X	433	60.623	32.140	37.667	0.00	0.00
ATOM	6524	C	LEU	X	433	63.148	33.524	33.209	0.00	0.00

ATOM	6525	O	LEU	X	433	64.100	32.780	33.016	0.00	0.00
ATOM	6526	N	SER	X	434	63.278	34.820	33.503	0.00	0.00
ATOM	6527	H	SER	X	434	62.468	35.401	33.664	0.00	0.00
ATOM	6528	CA	SER	X	434	64.577	35.479	33.604	0.00	0.00
ATOM	6529	HA	SER	X	434	65.299	34.818	33.125	0.00	0.00
ATOM	6530	CB	SER	X	434	64.614	36.818	32.795	0.00	0.00
ATOM	6531	HB2	SER	X	434	63.756	37.367	33.184	0.00	0.00
ATOM	6532	HB3	SER	X	434	65.546	37.340	33.011	0.00	0.00
ATOM	6533	OG	SER	X	434	64.519	36.513	31.423	0.00	0.00
ATOM	6534	HG	SER	X	434	63.617	36.408	31.112	0.00	0.00
ATOM	6535	C	SER	X	434	65.042	35.794	35.010	0.00	0.00
ATOM	6536	O	SER	X	434	66.108	36.346	35.248	0.00	0.00
ATOM	6537	N	TRP	X	435	64.264	35.219	35.971	0.00	0.00
ATOM	6538	H	TRP	X	435	63.426	34.757	35.647	0.00	0.00
ATOM	6539	CA	TRP	X	435	64.723	35.044	37.301	0.00	0.00
ATOM	6540	HA	TRP	X	435	65.244	35.951	37.605	0.00	0.00
ATOM	6541	CB	TRP	X	435	63.538	34.914	38.266	0.00	0.00
ATOM	6542	HB2	TRP	X	435	62.865	34.167	37.846	0.00	0.00
ATOM	6543	HB3	TRP	X	435	63.815	34.552	39.257	0.00	0.00
ATOM	6544	CG	TRP	X	435	62.865	36.231	38.513	0.00	0.00
ATOM	6545	CD1	TRP	X	435	61.651	36.543	37.966	0.00	0.00
ATOM	6546	HD1	TRP	X	435	61.049	35.932	37.308	0.00	0.00
ATOM	6547	NE1	TRP	X	435	61.184	37.769	38.474	0.00	0.00
ATOM	6548	HE1	TRP	X	435	60.342	38.246	38.184	0.00	0.00
ATOM	6549	CE2	TRP	X	435	62.210	38.348	39.196	0.00	0.00
ATOM	6550	CZ2	TRP	X	435	62.291	39.634	39.805	0.00	0.00
ATOM	6551	HZ2	TRP	X	435	61.489	40.346	39.679	0.00	0.00
ATOM	6552	CH2	TRP	X	435	63.508	39.991	40.431	0.00	0.00
ATOM	6553	HH2	TRP	X	435	63.622	40.971	40.872	0.00	0.00
ATOM	6554	CZ3	TRP	X	435	64.596	39.079	40.439	0.00	0.00
ATOM	6555	HZ3	TRP	X	435	65.542	39.436	40.818	0.00	0.00
ATOM	6556	CE3	TRP	X	435	64.413	37.741	39.999	0.00	0.00
ATOM	6557	HE3	TRP	X	435	65.203	37.006	40.032	0.00	0.00
ATOM	6558	CD2	TRP	X	435	63.261	37.368	39.236	0.00	0.00
ATOM	6559	C	TRP	X	435	65.752	33.925	37.427	0.00	0.00
ATOM	6560	O	TRP	X	435	65.660	32.913	36.715	0.00	0.00
ATOM	6561	N	PRO	X	436	66.541	33.867	38.465	0.00	0.00
ATOM	6562	CD	PRO	X	436	66.600	34.869	39.576	0.00	0.00
ATOM	6563	HD2	PRO	X	436	65.753	34.749	40.253	0.00	0.00
ATOM	6564	HD3	PRO	X	436	66.682	35.859	39.127	0.00	0.00
ATOM	6565	CG	PRO	X	436	67.799	34.529	40.383	0.00	0.00
ATOM	6566	HG2	PRO	X	436	67.543	34.467	41.441	0.00	0.00
ATOM	6567	HG3	PRO	X	436	68.456	35.397	40.433	0.00	0.00
ATOM	6568	CB	PRO	X	436	68.515	33.442	39.640	0.00	0.00
ATOM	6569	HB2	PRO	X	436	68.882	32.748	40.395	0.00	0.00
ATOM	6570	HB3	PRO	X	436	69.422	33.815	39.163	0.00	0.00
ATOM	6571	CA	PRO	X	436	67.503	32.857	38.654	0.00	0.00
ATOM	6572	HA	PRO	X	436	67.994	32.596	37.716	0.00	0.00
ATOM	6573	C	PRO	X	436	66.892	31.484	39.168	0.00	0.00
ATOM	6574	O	PRO	X	436	65.812	31.444	39.759	0.00	0.00
ATOM	6575	N	LEU	X	437	67.668	30.435	38.895	0.00	0.00
ATOM	6576	H	LEU	X	437	68.638	30.571	38.652	0.00	0.00
ATOM	6577	CA	LEU	X	437	67.185	28.998	39.114	0.00	0.00
ATOM	6578	HA	LEU	X	437	66.240	28.885	38.583	0.00	0.00
ATOM	6579	CB	LEU	X	437	68.114	27.978	38.485	0.00	0.00
ATOM	6580	HB2	LEU	X	437	68.777	28.531	37.819	0.00	0.00
ATOM	6581	HB3	LEU	X	437	68.750	27.604	39.288	0.00	0.00
ATOM	6582	CG	LEU	X	437	67.470	26.762	37.715	0.00	0.00
ATOM	6583	HG	LEU	X	437	67.055	27.046	36.748	0.00	0.00
ATOM	6584	CD1	LEU	X	437	68.608	25.698	37.412	0.00	0.00
ATOM	6585	HD11	LEU	X	437	68.102	24.832	36.985	0.00	0.00
ATOM	6586	HD12	LEU	X	437	69.236	25.484	38.276	0.00	0.00
ATOM	6587	HD13	LEU	X	437	69.372	26.143	36.775	0.00	0.00
ATOM	6588	CD2	LEU	X	437	66.320	26.143	38.475	0.00	0.00
ATOM	6589	HD21	LEU	X	437	66.100	25.145	38.098	0.00	0.00
ATOM	6590	HD22	LEU	X	437	66.525	25.919	39.522	0.00	0.00
ATOM	6591	HD23	LEU	X	437	65.400	26.726	38.422	0.00	0.00

ATOM	6592	C	LEU	X	437	66.793	28.748	40.618	0.00	0.00
ATOM	6593	O	LEU	X	437	65.715	28.191	40.868	0.00	0.00
ATOM	6594	N	TRP	X	438	67.644	29.183	41.571	0.00	0.00
ATOM	6595	H	TRP	X	438	68.538	29.550	41.276	0.00	0.00
ATOM	6596	CA	TRP	X	438	67.339	29.110	43.000	0.00	0.00
ATOM	6597	HA	TRP	X	438	67.365	28.072	43.334	0.00	0.00
ATOM	6598	CB	TRP	X	438	68.575	29.764	43.730	0.00	0.00
ATOM	6599	HB2	TRP	X	438	68.448	29.450	44.766	0.00	0.00
ATOM	6600	HB3	TRP	X	438	69.555	29.459	43.360	0.00	0.00
ATOM	6601	CG	TRP	X	438	68.541	31.250	43.739	0.00	0.00
ATOM	6602	CD1	TRP	X	438	69.399	32.039	43.050	0.00	0.00
ATOM	6603	HD1	TRP	X	438	70.180	31.738	42.367	0.00	0.00
ATOM	6604	NE1	TRP	X	438	69.354	33.335	43.419	0.00	0.00
ATOM	6605	HE1	TRP	X	438	69.813	34.113	42.966	0.00	0.00
ATOM	6606	CE2	TRP	X	438	68.415	33.533	44.431	0.00	0.00
ATOM	6607	CZ2	TRP	X	438	67.898	34.655	45.025	0.00	0.00
ATOM	6608	HZ2	TRP	X	438	68.338	35.620	44.818	0.00	0.00
ATOM	6609	CH2	TRP	X	438	66.675	34.556	45.737	0.00	0.00
ATOM	6610	HH2	TRP	X	438	66.260	35.369	46.314	0.00	0.00
ATOM	6611	CZ3	TRP	X	438	66.091	33.325	45.982	0.00	0.00
ATOM	6612	HZ3	TRP	X	438	65.269	33.174	46.666	0.00	0.00
ATOM	6613	CE3	TRP	X	438	66.706	32.164	45.451	0.00	0.00
ATOM	6614	HE3	TRP	X	438	66.259	31.233	45.766	0.00	0.00
ATOM	6615	CD2	TRP	X	438	67.747	32.244	44.518	0.00	0.00
ATOM	6616	C	TRP	X	438	66.070	29.770	43.440	0.00	0.00
ATOM	6617	O	TRP	X	438	65.502	29.265	44.436	0.00	0.00
ATOM	6618	N	MET	X	439	65.592	30.839	42.709	0.00	0.00
ATOM	6619	H	MET	X	439	65.935	31.020	41.776	0.00	0.00
ATOM	6620	CA	MET	X	439	64.251	31.379	43.022	0.00	0.00
ATOM	6621	HA	MET	X	439	64.380	31.867	43.988	0.00	0.00
ATOM	6622	CB	MET	X	439	63.915	32.558	41.982	0.00	0.00
ATOM	6623	HB2	MET	X	439	64.830	32.988	41.575	0.00	0.00
ATOM	6624	HB3	MET	X	439	63.307	32.113	41.194	0.00	0.00
ATOM	6625	CG	MET	X	439	63.083	33.635	42.772	0.00	0.00
ATOM	6626	HG2	MET	X	439	62.018	33.405	42.735	0.00	0.00
ATOM	6627	HG3	MET	X	439	63.466	33.601	43.792	0.00	0.00
ATOM	6628	SD	MET	X	439	63.500	35.383	42.287	0.00	0.00
ATOM	6629	CE	MET	X	439	65.080	35.720	43.298	0.00	0.00
ATOM	6630	HE1	MET	X	439	64.777	35.505	44.323	0.00	0.00
ATOM	6631	HE2	MET	X	439	65.976	35.153	43.044	0.00	0.00
ATOM	6632	HE3	MET	X	439	65.423	36.746	43.164	0.00	0.00
ATOM	6633	C	MET	X	439	63.062	30.344	42.908	0.00	0.00
ATOM	6634	O	MET	X	439	61.999	30.525	43.472	0.00	0.00
ATOM	6635	N	GLY	X	440	63.166	29.265	42.098	0.00	0.00
ATOM	6636	H	GLY	X	440	64.071	29.087	41.686	0.00	0.00
ATOM	6637	CA	GLY	X	440	61.967	28.498	41.717	0.00	0.00
ATOM	6638	HA2	GLY	X	440	62.328	27.565	41.286	0.00	0.00
ATOM	6639	HA3	GLY	X	440	61.476	28.162	42.631	0.00	0.00
ATOM	6640	C	GLY	X	440	60.910	29.249	40.888	0.00	0.00
ATOM	6641	O	GLY	X	440	61.246	29.793	39.788	0.00	0.00
ATOM	6642	N	VAL	X	441	59.644	29.301	41.303	0.00	0.00
ATOM	6643	H	VAL	X	441	59.429	28.817	42.163	0.00	0.00
ATOM	6644	CA	VAL	X	441	58.599	30.137	40.612	0.00	0.00
ATOM	6645	HA	VAL	X	441	59.037	30.531	39.695	0.00	0.00
ATOM	6646	CB	VAL	X	441	57.287	29.320	40.287	0.00	0.00
ATOM	6647	HB	VAL	X	441	56.739	29.113	41.206	0.00	0.00
ATOM	6648	CG1	VAL	X	441	56.367	30.071	39.314	0.00	0.00
ATOM	6649	HG11	VAL	X	441	57.052	30.700	38.745	0.00	0.00
ATOM	6650	HG12	VAL	X	441	55.874	29.350	38.662	0.00	0.00
ATOM	6651	HG13	VAL	X	441	55.676	30.690	39.888	0.00	0.00
ATOM	6652	CG2	VAL	X	441	57.610	27.886	39.789	0.00	0.00
ATOM	6653	HG21	VAL	X	441	56.699	27.439	39.390	0.00	0.00
ATOM	6654	HG22	VAL	X	441	57.871	27.202	40.596	0.00	0.00
ATOM	6655	HG23	VAL	X	441	58.447	28.023	39.104	0.00	0.00
ATOM	6656	C	VAL	X	441	58.203	31.296	41.488	0.00	0.00
ATOM	6657	O	VAL	X	441	57.743	31.094	42.554	0.00	0.00
ATOM	6658	N	PRO	X	442	58.542	32.574	41.104	0.00	0.00

ATOM	6659	CD	PRO	X	442	59.230	32.864	39.839	0.00	0.00
ATOM	6660	HD2	PRO	X	442	58.655	32.461	39.005	0.00	0.00
ATOM	6661	HD3	PRO	X	442	60.246	32.469	39.864	0.00	0.00
ATOM	6662	CG	PRO	X	442	59.245	34.393	39.671	0.00	0.00
ATOM	6663	HG2	PRO	X	442	58.457	34.876	39.094	0.00	0.00
ATOM	6664	HG3	PRO	X	442	60.212	34.749	39.316	0.00	0.00
ATOM	6665	CB	PRO	X	442	59.016	34.956	41.092	0.00	0.00
ATOM	6666	HB2	PRO	X	442	58.539	35.936	41.102	0.00	0.00
ATOM	6667	HB3	PRO	X	442	60.007	35.065	41.533	0.00	0.00
ATOM	6668	CA	PRO	X	442	58.299	33.856	41.853	0.00	0.00
ATOM	6669	HA	PRO	X	442	58.685	33.668	42.855	0.00	0.00
ATOM	6670	C	PRO	X	442	56.775	34.244	41.899	0.00	0.00
ATOM	6671	O	PRO	X	442	55.994	33.888	41.029	0.00	0.00
ATOM	6672	N	HIP	X	443	56.437	34.793	43.077	0.00	0.00
ATOM	6673	H	HIP	X	443	57.249	34.937	43.660	0.00	0.00
ATOM	6674	CA	HIP	X	443	55.172	35.449	43.415	0.00	0.00
ATOM	6675	HA	HIP	X	443	54.509	34.629	43.690	0.00	0.00
ATOM	6676	CB	HIP	X	443	55.514	36.360	44.631	0.00	0.00
ATOM	6677	HB2	HIP	X	443	55.563	35.655	45.462	0.00	0.00
ATOM	6678	HB3	HIP	X	443	56.533	36.712	44.470	0.00	0.00
ATOM	6679	CG	HIP	X	443	54.568	37.492	44.946	0.00	0.00
ATOM	6680	ND1	HIP	X	443	53.434	37.294	45.670	0.00	0.00
ATOM	6681	HD1	HIP	X	443	53.056	36.419	46.004	0.00	0.00
ATOM	6682	CE1	HIP	X	443	52.778	38.446	45.630	0.00	0.00
ATOM	6683	HE1	HIP	X	443	51.833	38.682	46.097	0.00	0.00
ATOM	6684	NE2	HIP	X	443	53.475	39.357	44.983	0.00	0.00
ATOM	6685	HE2	HIP	X	443	53.218	40.325	44.855	0.00	0.00
ATOM	6686	CD2	HIP	X	443	54.714	38.825	44.549	0.00	0.00
ATOM	6687	HD2	HIP	X	443	55.589	39.294	44.124	0.00	0.00
ATOM	6688	C	HIP	X	443	54.511	36.261	42.229	0.00	0.00
ATOM	6689	O	HIP	X	443	55.022	37.316	41.846	0.00	0.00
ATOM	6690	N	GLY	X	444	53.336	35.856	41.702	0.00	0.00
ATOM	6691	H	GLY	X	444	52.983	35.076	42.237	0.00	0.00
ATOM	6692	CA	GLY	X	444	52.446	36.510	40.714	0.00	0.00
ATOM	6693	HA2	GLY	X	444	51.404	36.251	40.904	0.00	0.00
ATOM	6694	HA3	GLY	X	444	52.499	37.597	40.764	0.00	0.00
ATOM	6695	C	GLY	X	444	52.791	36.373	39.292	0.00	0.00
ATOM	6696	O	GLY	X	444	52.592	37.272	38.505	0.00	0.00
ATOM	6697	N	TYR	X	445	53.509	35.260	38.947	0.00	0.00
ATOM	6698	H	TYR	X	445	53.847	34.817	39.789	0.00	0.00
ATOM	6699	CA	TYR	X	445	54.031	34.890	37.575	0.00	0.00
ATOM	6700	HA	TYR	X	445	53.974	35.759	36.921	0.00	0.00
ATOM	6701	CB	TYR	X	445	55.502	34.743	37.576	0.00	0.00
ATOM	6702	HB2	TYR	X	445	55.749	34.212	38.495	0.00	0.00
ATOM	6703	HB3	TYR	X	445	55.764	34.049	36.778	0.00	0.00
ATOM	6704	CG	TYR	X	445	56.331	35.996	37.573	0.00	0.00
ATOM	6705	CD1	TYR	X	445	56.948	36.549	36.402	0.00	0.00
ATOM	6706	HD1	TYR	X	445	56.721	36.087	35.453	0.00	0.00
ATOM	6707	CE1	TYR	X	445	57.783	37.658	36.488	0.00	0.00
ATOM	6708	HE1	TYR	X	445	58.128	38.111	35.570	0.00	0.00
ATOM	6709	CZ	TYR	X	445	57.990	38.300	37.737	0.00	0.00
ATOM	6710	OH	TYR	X	445	58.758	39.453	37.701	0.00	0.00
ATOM	6711	HH	TYR	X	445	59.235	39.478	36.869	0.00	0.00
ATOM	6712	CE2	TYR	X	445	57.216	37.875	38.868	0.00	0.00
ATOM	6713	HE2	TYR	X	445	57.171	38.500	39.748	0.00	0.00
ATOM	6714	CD2	TYR	X	445	56.476	36.702	38.780	0.00	0.00
ATOM	6715	HD2	TYR	X	445	55.896	36.349	39.620	0.00	0.00
ATOM	6716	C	TYR	X	445	53.186	33.837	36.758	0.00	0.00
ATOM	6717	O	TYR	X	445	53.426	33.773	35.567	0.00	0.00
ATOM	6718	N	GLU	X	446	52.290	33.202	37.423	0.00	0.00
ATOM	6719	H	GLU	X	446	52.039	33.496	38.356	0.00	0.00
ATOM	6720	CA	GLU	X	446	51.489	32.140	36.757	0.00	0.00
ATOM	6721	HA	GLU	X	446	52.186	31.525	36.189	0.00	0.00
ATOM	6722	CB	GLU	X	446	50.825	31.339	37.785	0.00	0.00
ATOM	6723	HB2	GLU	X	446	50.593	30.396	37.290	0.00	0.00
ATOM	6724	HB3	GLU	X	446	51.569	31.165	38.562	0.00	0.00
ATOM	6725	CG	GLU	X	446	49.487	31.744	38.414	0.00	0.00

ATOM	6726	HG2	GLU	X	446	48.650	31.808	37.720	0.00	0.00
ATOM	6727	HG3	GLU	X	446	49.244	30.905	39.065	0.00	0.00
ATOM	6728	CD	GLU	X	446	49.507	33.023	39.244	0.00	0.00
ATOM	6729	OE1	GLU	X	446	50.453	33.813	39.264	0.00	0.00
ATOM	6730	OE2	GLU	X	446	48.488	33.206	39.933	0.00	0.00
ATOM	6731	C	GLU	X	446	50.606	32.771	35.657	0.00	0.00
ATOM	6732	O	GLU	X	446	50.338	32.154	34.627	0.00	0.00
ATOM	6733	N	ILE	X	447	50.244	34.047	35.800	0.00	0.00
ATOM	6734	H	ILE	X	447	50.597	34.603	36.567	0.00	0.00
ATOM	6735	CA	ILE	X	447	49.279	34.729	34.940	0.00	0.00
ATOM	6736	HA	ILE	X	447	48.327	34.203	35.016	0.00	0.00
ATOM	6737	CB	ILE	X	447	49.100	36.223	35.464	0.00	0.00
ATOM	6738	HB	ILE	X	447	48.369	36.760	34.859	0.00	0.00
ATOM	6739	CG2	ILE	X	447	48.526	36.043	36.927	0.00	0.00
ATOM	6740	HG21	ILE	X	447	49.222	35.581	37.627	0.00	0.00
ATOM	6741	HG22	ILE	X	447	47.654	35.389	36.909	0.00	0.00
ATOM	6742	HG23	ILE	X	447	48.280	36.988	37.411	0.00	0.00
ATOM	6743	CG1	ILE	X	447	50.395	37.051	35.513	0.00	0.00
ATOM	6744	HG12	ILE	X	447	51.070	36.736	36.309	0.00	0.00
ATOM	6745	HG13	ILE	X	447	50.885	37.049	34.539	0.00	0.00
ATOM	6746	CD1	ILE	X	447	50.170	38.504	35.864	0.00	0.00
ATOM	6747	HD11	ILE	X	447	49.602	38.951	35.048	0.00	0.00
ATOM	6748	HD12	ILE	X	447	51.076	39.074	36.070	0.00	0.00
ATOM	6749	HD13	ILE	X	447	49.586	38.533	36.784	0.00	0.00
ATOM	6750	C	ILE	X	447	49.548	34.725	33.405	0.00	0.00
ATOM	6751	O	ILE	X	447	48.613	34.719	32.632	0.00	0.00
ATOM	6752	N	GLU	X	448	50.798	34.566	33.012	0.00	0.00
ATOM	6753	H	GLU	X	448	51.543	34.515	33.692	0.00	0.00
ATOM	6754	CA	GLU	X	448	51.239	34.303	31.654	0.00	0.00
ATOM	6755	HA	GLU	X	448	51.133	35.186	31.024	0.00	0.00
ATOM	6756	CB	GLU	X	448	52.670	33.890	31.796	0.00	0.00
ATOM	6757	HB2	GLU	X	448	52.735	33.004	32.428	0.00	0.00
ATOM	6758	HB3	GLU	X	448	53.032	33.572	30.819	0.00	0.00
ATOM	6759	CG	GLU	X	448	53.612	34.968	32.219	0.00	0.00
ATOM	6760	HG2	GLU	X	448	53.357	35.839	31.615	0.00	0.00
ATOM	6761	HG3	GLU	X	448	53.348	35.099	33.268	0.00	0.00
ATOM	6762	CD	GLU	X	448	55.085	34.618	32.269	0.00	0.00
ATOM	6763	OE1	GLU	X	448	55.876	35.567	32.038	0.00	0.00
ATOM	6764	OE2	GLU	X	448	55.475	33.410	32.271	0.00	0.00
ATOM	6765	C	GLU	X	448	50.387	33.181	30.981	0.00	0.00
ATOM	6766	O	GLU	X	448	50.094	33.269	29.790	0.00	0.00
ATOM	6767	N	PHE	X	449	49.989	32.115	31.667	0.00	0.00
ATOM	6768	H	PHE	X	449	50.148	32.007	32.658	0.00	0.00
ATOM	6769	CA	PHE	X	449	49.206	30.978	31.201	0.00	0.00
ATOM	6770	HA	PHE	X	449	49.525	30.891	30.162	0.00	0.00
ATOM	6771	CB	PHE	X	449	49.634	29.738	32.117	0.00	0.00
ATOM	6772	HB2	PHE	X	449	49.509	29.863	33.192	0.00	0.00
ATOM	6773	HB3	PHE	X	449	49.087	28.866	31.758	0.00	0.00
ATOM	6774	CG	PHE	X	449	51.101	29.397	31.851	0.00	0.00
ATOM	6775	CD1	PHE	X	449	52.123	30.082	32.523	0.00	0.00
ATOM	6776	HD1	PHE	X	449	51.861	30.767	33.316	0.00	0.00
ATOM	6777	CE1	PHE	X	449	53.523	29.869	32.362	0.00	0.00
ATOM	6778	HE1	PHE	X	449	54.274	30.447	32.879	0.00	0.00
ATOM	6779	CZ	PHE	X	449	53.853	28.954	31.347	0.00	0.00
ATOM	6780	HZ	PHE	X	449	54.886	28.653	31.256	0.00	0.00
ATOM	6781	CE2	PHE	X	449	52.848	28.288	30.632	0.00	0.00
ATOM	6782	HE2	PHE	X	449	53.175	27.648	29.826	0.00	0.00
ATOM	6783	CD2	PHE	X	449	51.473	28.501	30.850	0.00	0.00
ATOM	6784	HD2	PHE	X	449	50.737	28.063	30.192	0.00	0.00
ATOM	6785	C	PHE	X	449	47.712	31.178	31.194	0.00	0.00
ATOM	6786	O	PHE	X	449	46.931	30.496	30.579	0.00	0.00
ATOM	6787	N	ILE	X	450	47.167	32.196	31.892	0.00	0.00
ATOM	6788	H	ILE	X	450	47.887	32.805	32.253	0.00	0.00
ATOM	6789	CA	ILE	X	450	45.745	32.651	32.025	0.00	0.00
ATOM	6790	HA	ILE	X	450	45.079	31.850	31.701	0.00	0.00
ATOM	6791	CB	ILE	X	450	45.332	33.018	33.545	0.00	0.00
ATOM	6792	HB	ILE	X	450	45.962	33.859	33.837	0.00	0.00

ATOM	6793	CG2	ILE	X	450	43.896	33.509	33.602	0.00	0.00
ATOM	6794	HG21	ILE	X	450	43.837	34.562	33.328	0.00	0.00
ATOM	6795	HG22	ILE	X	450	43.510	33.503	34.621	0.00	0.00
ATOM	6796	HG23	ILE	X	450	43.325	33.005	32.821	0.00	0.00
ATOM	6797	CG1	ILE	X	450	45.479	31.884	34.547	0.00	0.00
ATOM	6798	HG12	ILE	X	450	44.768	31.930	35.372	0.00	0.00
ATOM	6799	HG13	ILE	X	450	45.155	31.000	33.999	0.00	0.00
ATOM	6800	CD1	ILE	X	450	46.889	31.680	35.176	0.00	0.00
ATOM	6801	HD11	ILE	X	450	47.576	31.417	34.372	0.00	0.00
ATOM	6802	HD12	ILE	X	450	46.828	30.739	35.722	0.00	0.00
ATOM	6803	HD13	ILE	X	450	47.148	32.513	35.830	0.00	0.00
ATOM	6804	C	ILE	X	450	45.491	33.786	30.994	0.00	0.00
ATOM	6805	O	ILE	X	450	44.490	33.841	30.303	0.00	0.00
ATOM	6806	N	PHE	X	451	46.478	34.622	30.679	0.00	0.00
ATOM	6807	H	PHE	X	451	47.332	34.504	31.205	0.00	0.00
ATOM	6808	CA	PHE	X	451	46.512	35.586	29.603	0.00	0.00
ATOM	6809	HA	PHE	X	451	45.505	35.800	29.247	0.00	0.00
ATOM	6810	CB	PHE	X	451	47.251	36.823	30.089	0.00	0.00
ATOM	6811	HB2	PHE	X	451	48.159	36.557	30.631	0.00	0.00
ATOM	6812	HB3	PHE	X	451	47.522	37.537	29.312	0.00	0.00
ATOM	6813	CG	PHE	X	451	46.310	37.715	31.019	0.00	0.00
ATOM	6814	CD1	PHE	X	451	46.384	37.637	32.418	0.00	0.00
ATOM	6815	HD1	PHE	X	451	47.045	36.877	32.805	0.00	0.00
ATOM	6816	CE1	PHE	X	451	45.705	38.590	33.185	0.00	0.00
ATOM	6817	HE1	PHE	X	451	45.690	38.570	34.265	0.00	0.00
ATOM	6818	CZ	PHE	X	451	44.813	39.519	32.644	0.00	0.00
ATOM	6819	HZ	PHE	X	451	44.268	40.234	33.244	0.00	0.00
ATOM	6820	CE2	PHE	X	451	44.747	39.525	31.226	0.00	0.00
ATOM	6821	HE2	PHE	X	451	44.095	40.242	30.750	0.00	0.00
ATOM	6822	CD2	PHE	X	451	45.464	38.638	30.403	0.00	0.00
ATOM	6823	HD2	PHE	X	451	45.291	38.581	29.338	0.00	0.00
ATOM	6824	C	PHE	X	451	47.091	35.082	28.294	0.00	0.00
ATOM	6825	O	PHE	X	451	47.053	35.833	27.274	0.00	0.00
ATOM	6826	N	GLY	X	452	47.613	33.903	28.263	0.00	0.00
ATOM	6827	H	GLY	X	452	47.526	33.430	29.151	0.00	0.00
ATOM	6828	CA	GLY	X	452	47.969	33.152	27.060	0.00	0.00
ATOM	6829	HA2	GLY	X	452	48.127	32.106	27.320	0.00	0.00
ATOM	6830	HA3	GLY	X	452	47.212	33.226	26.278	0.00	0.00
ATOM	6831	C	GLY	X	452	49.237	33.623	26.386	0.00	0.00
ATOM	6832	O	GLY	X	452	49.508	33.228	25.248	0.00	0.00
ATOM	6833	N	ILE	X	453	50.124	34.335	27.091	0.00	0.00
ATOM	6834	H	ILE	X	453	49.925	34.426	28.077	0.00	0.00
ATOM	6835	CA	ILE	X	453	51.399	34.833	26.642	0.00	0.00
ATOM	6836	HA	ILE	X	453	51.276	35.514	25.799	0.00	0.00
ATOM	6837	CB	ILE	X	453	52.027	35.587	27.826	0.00	0.00
ATOM	6838	HB	ILE	X	453	51.989	35.037	28.765	0.00	0.00
ATOM	6839	CG2	ILE	X	453	53.452	36.095	27.513	0.00	0.00
ATOM	6840	HG21	ILE	X	453	54.210	35.318	27.609	0.00	0.00
ATOM	6841	HG22	ILE	X	453	53.764	36.776	28.306	0.00	0.00
ATOM	6842	HG23	ILE	X	453	53.581	36.665	26.593	0.00	0.00
ATOM	6843	CG1	ILE	X	453	51.226	36.890	28.272	0.00	0.00
ATOM	6844	HG12	ILE	X	453	50.178	36.656	28.459	0.00	0.00
ATOM	6845	HG13	ILE	X	453	51.578	37.166	29.266	0.00	0.00
ATOM	6846	CD1	ILE	X	453	51.256	38.093	27.375	0.00	0.00
ATOM	6847	HD11	ILE	X	453	51.328	37.820	26.322	0.00	0.00
ATOM	6848	HD12	ILE	X	453	52.246	38.534	27.493	0.00	0.00
ATOM	6849	HD13	ILE	X	453	50.363	38.696	27.541	0.00	0.00
ATOM	6850	C	ILE	X	453	52.435	33.841	25.988	0.00	0.00
ATOM	6851	O	ILE	X	453	53.162	34.332	25.116	0.00	0.00
ATOM	6852	N	PRO	X	454	52.356	32.523	26.199	0.00	0.00
ATOM	6853	CD	PRO	X	454	51.841	31.886	27.348	0.00	0.00
ATOM	6854	HD2	PRO	X	454	50.795	31.646	27.157	0.00	0.00
ATOM	6855	HD3	PRO	X	454	51.882	32.444	28.284	0.00	0.00
ATOM	6856	CG	PRO	X	454	52.503	30.437	27.397	0.00	0.00
ATOM	6857	HG2	PRO	X	454	51.879	29.699	27.901	0.00	0.00
ATOM	6858	HG3	PRO	X	454	53.468	30.613	27.873	0.00	0.00
ATOM	6859	CB	PRO	X	454	52.618	30.218	25.911	0.00	0.00

ATOM	6860	HB2	PRO	X	454	51.643	29.851	25.588	0.00	0.00
ATOM	6861	HB3	PRO	X	454	53.340	29.457	25.614	0.00	0.00
ATOM	6862	CA	PRO	X	454	52.997	31.537	25.368	0.00	0.00
ATOM	6863	HA	PRO	X	454	54.038	31.591	25.685	0.00	0.00
ATOM	6864	C	PRO	X	454	52.823	31.572	23.839	0.00	0.00
ATOM	6865	O	PRO	X	454	53.837	31.604	23.094	0.00	0.00
ATOM	6866	N	LEU	X	455	51.544	31.804	23.364	0.00	0.00
ATOM	6867	H	LEU	X	455	50.881	31.957	24.110	0.00	0.00
ATOM	6868	CA	LEU	X	455	51.189	31.965	21.943	0.00	0.00
ATOM	6869	HA	LEU	X	455	51.706	31.251	21.303	0.00	0.00
ATOM	6870	CB	LEU	X	455	49.705	31.730	21.807	0.00	0.00
ATOM	6871	HB2	LEU	X	455	49.181	32.182	22.650	0.00	0.00
ATOM	6872	HB3	LEU	X	455	49.333	32.160	20.877	0.00	0.00
ATOM	6873	CG	LEU	X	455	49.417	30.164	21.846	0.00	0.00
ATOM	6874	HG	LEU	X	455	50.057	29.630	22.549	0.00	0.00
ATOM	6875	CD1	LEU	X	455	47.993	29.850	22.266	0.00	0.00
ATOM	6876	HD11	LEU	X	455	47.829	29.978	23.336	0.00	0.00
ATOM	6877	HD12	LEU	X	455	47.747	28.817	22.018	0.00	0.00
ATOM	6878	HD13	LEU	X	455	47.353	30.636	21.865	0.00	0.00
ATOM	6879	CD2	LEU	X	455	49.673	29.576	20.529	0.00	0.00
ATOM	6880	HD21	LEU	X	455	49.796	28.498	20.636	0.00	0.00
ATOM	6881	HD22	LEU	X	455	48.815	29.748	19.879	0.00	0.00
ATOM	6882	HD23	LEU	X	455	50.506	29.962	19.941	0.00	0.00
ATOM	6883	C	LEU	X	455	51.595	33.312	21.397	0.00	0.00
ATOM	6884	O	LEU	X	455	51.385	33.494	20.229	0.00	0.00
ATOM	6885	N	ASP	X	456	52.300	34.175	22.142	0.00	0.00
ATOM	6886	H	ASP	X	456	52.761	33.838	22.975	0.00	0.00
ATOM	6887	CA	ASP	X	456	52.779	35.505	21.723	0.00	0.00
ATOM	6888	HA	ASP	X	456	52.167	35.872	20.900	0.00	0.00
ATOM	6889	CB	ASP	X	456	52.641	36.528	22.932	0.00	0.00
ATOM	6890	HB2	ASP	X	456	51.623	36.466	23.317	0.00	0.00
ATOM	6891	HB3	ASP	X	456	53.227	36.145	23.768	0.00	0.00
ATOM	6892	CG	ASP	X	456	53.017	37.968	22.630	0.00	0.00
ATOM	6893	OD1	ASP	X	456	54.249	38.242	22.505	0.00	0.00
ATOM	6894	OD2	ASP	X	456	52.224	38.836	22.342	0.00	0.00
ATOM	6895	C	ASP	X	456	54.199	35.417	21.273	0.00	0.00
ATOM	6896	O	ASP	X	456	54.953	34.632	21.883	0.00	0.00
ATOM	6897	N	PRO	X	457	54.508	36.139	20.191	0.00	0.00
ATOM	6898	CD	PRO	X	457	53.662	37.055	19.345	0.00	0.00
ATOM	6899	HD2	PRO	X	457	53.130	37.842	19.880	0.00	0.00
ATOM	6900	HD3	PRO	X	457	52.975	36.493	18.713	0.00	0.00
ATOM	6901	CG	PRO	X	457	54.645	37.771	18.472	0.00	0.00
ATOM	6902	HG2	PRO	X	457	54.997	38.616	19.064	0.00	0.00
ATOM	6903	HG3	PRO	X	457	54.214	38.007	17.499	0.00	0.00
ATOM	6904	CB	PRO	X	457	55.753	36.703	18.272	0.00	0.00
ATOM	6905	HB2	PRO	X	457	56.662	37.263	18.054	0.00	0.00
ATOM	6906	HB3	PRO	X	457	55.474	35.944	17.541	0.00	0.00
ATOM	6907	CA	PRO	X	457	55.883	36.112	19.651	0.00	0.00
ATOM	6908	HA	PRO	X	457	56.123	35.050	19.601	0.00	0.00
ATOM	6909	C	PRO	X	457	57.037	36.867	20.459	0.00	0.00
ATOM	6910	O	PRO	X	457	58.228	36.711	20.159	0.00	0.00
ATOM	6911	N	SER	X	458	56.757	37.722	21.451	0.00	0.00
ATOM	6912	H	SER	X	458	55.810	37.661	21.797	0.00	0.00
ATOM	6913	CA	SER	X	458	57.689	38.758	22.057	0.00	0.00
ATOM	6914	HA	SER	X	458	58.156	39.365	21.280	0.00	0.00
ATOM	6915	CB	SER	X	458	56.938	39.817	22.898	0.00	0.00
ATOM	6916	HB2	SER	X	458	57.714	40.450	23.328	0.00	0.00
ATOM	6917	HB3	SER	X	458	56.322	40.410	22.222	0.00	0.00
ATOM	6918	OG	SER	X	458	56.156	39.296	23.935	0.00	0.00
ATOM	6919	HG	SER	X	458	55.332	38.964	23.571	0.00	0.00
ATOM	6920	C	SER	X	458	58.895	38.077	22.769	0.00	0.00
ATOM	6921	O	SER	X	458	60.012	38.562	22.733	0.00	0.00
ATOM	6922	N	ARG	X	459	58.530	37.094	23.565	0.00	0.00
ATOM	6923	H	ARG	X	459	57.571	37.111	23.883	0.00	0.00
ATOM	6924	CA	ARG	X	459	59.354	36.008	24.103	0.00	0.00
ATOM	6925	HA	ARG	X	459	60.398	36.175	23.838	0.00	0.00
ATOM	6926	CB	ARG	X	459	59.200	35.896	25.580	0.00	0.00

ATOM	6927	HB2	ARG	X	459	58.189	35.621	25.878	0.00	0.00
ATOM	6928	HB3	ARG	X	459	59.841	35.118	25.995	0.00	0.00
ATOM	6929	CG	ARG	X	459	59.619	37.273	26.136	0.00	0.00
ATOM	6930	HG2	ARG	X	459	60.684	37.389	25.934	0.00	0.00
ATOM	6931	HG3	ARG	X	459	59.045	38.140	25.809	0.00	0.00
ATOM	6932	CD	ARG	X	459	59.600	37.322	27.668	0.00	0.00
ATOM	6933	HD2	ARG	X	459	60.357	36.635	28.046	0.00	0.00
ATOM	6934	HD3	ARG	X	459	59.877	38.313	28.027	0.00	0.00
ATOM	6935	NE	ARG	X	459	58.293	37.131	28.213	0.00	0.00
ATOM	6936	HE	ARG	X	459	57.483	37.523	27.755	0.00	0.00
ATOM	6937	CZ	ARG	X	459	57.931	36.421	29.238	0.00	0.00
ATOM	6938	NH1	ARG	X	459	58.761	35.948	30.106	0.00	0.00
ATOM	6939	HH11	ARG	X	459	59.733	36.219	30.050	0.00	0.00
ATOM	6940	HH12	ARG	X	459	58.430	35.249	30.755	0.00	0.00
ATOM	6941	NH2	ARG	X	459	56.643	36.049	29.318	0.00	0.00
ATOM	6942	HH21	ARG	X	459	55.907	36.442	28.749	0.00	0.00
ATOM	6943	HH22	ARG	X	459	56.455	35.649	30.226	0.00	0.00
ATOM	6944	C	ARG	X	459	58.997	34.618	23.559	0.00	0.00
ATOM	6945	O	ARG	X	459	57.969	34.404	22.975	0.00	0.00
ATOM	6946	N	ASN	X	460	59.913	33.652	23.643	0.00	0.00
ATOM	6947	H	ASN	X	460	60.801	33.872	24.071	0.00	0.00
ATOM	6948	CA	ASN	X	460	59.768	32.400	22.931	0.00	0.00
ATOM	6949	HA	ASN	X	460	58.890	32.449	22.288	0.00	0.00
ATOM	6950	CB	ASN	X	460	60.931	32.252	21.953	0.00	0.00
ATOM	6951	HB2	ASN	X	460	61.144	33.230	21.521	0.00	0.00
ATOM	6952	HB3	ASN	X	460	61.837	31.901	22.445	0.00	0.00
ATOM	6953	CG	ASN	X	460	60.802	31.148	20.913	0.00	0.00
ATOM	6954	OD1	ASN	X	460	61.521	30.181	20.859	0.00	0.00
ATOM	6955	ND2	ASN	X	460	59.868	31.278	20.056	0.00	0.00
ATOM	6956	HD21	ASN	X	460	59.832	30.700	19.229	0.00	0.00
ATOM	6957	HD22	ASN	X	460	59.314	32.122	20.043	0.00	0.00
ATOM	6958	C	ASN	X	460	59.629	31.093	23.758	0.00	0.00
ATOM	6959	O	ASN	X	460	60.595	30.625	24.361	0.00	0.00
ATOM	6960	N	TYR	X	461	58.436	30.502	23.967	0.00	0.00
ATOM	6961	H	TYR	X	461	57.653	30.936	23.498	0.00	0.00
ATOM	6962	CA	TYR	X	461	58.095	29.352	24.795	0.00	0.00
ATOM	6963	HA	TYR	X	461	58.802	29.330	25.624	0.00	0.00
ATOM	6964	CB	TYR	X	461	56.677	29.575	25.425	0.00	0.00
ATOM	6965	HB2	TYR	X	461	56.182	29.857	24.496	0.00	0.00
ATOM	6966	HB3	TYR	X	461	56.390	28.635	25.896	0.00	0.00
ATOM	6967	CG	TYR	X	461	56.485	30.566	26.521	0.00	0.00
ATOM	6968	CD1	TYR	X	461	56.406	31.941	26.143	0.00	0.00
ATOM	6969	HD1	TYR	X	461	56.508	32.213	25.103	0.00	0.00
ATOM	6970	CE1	TYR	X	461	55.997	32.878	27.039	0.00	0.00
ATOM	6971	HE1	TYR	X	461	55.879	33.898	26.704	0.00	0.00
ATOM	6972	CZ	TYR	X	461	55.703	32.540	28.357	0.00	0.00
ATOM	6973	OH	TYR	X	461	55.246	33.405	29.302	0.00	0.00
ATOM	6974	HH	TYR	X	461	55.062	33.037	30.170	0.00	0.00
ATOM	6975	CE2	TYR	X	461	55.785	31.217	28.802	0.00	0.00
ATOM	6976	HE2	TYR	X	461	55.539	30.934	29.815	0.00	0.00
ATOM	6977	CD2	TYR	X	461	56.227	30.249	27.871	0.00	0.00
ATOM	6978	HD2	TYR	X	461	56.249	29.230	28.229	0.00	0.00
ATOM	6979	C	TYR	X	461	58.155	28.015	23.980	0.00	0.00
ATOM	6980	O	TYR	X	461	58.530	28.022	22.794	0.00	0.00
ATOM	6981	N	THR	X	462	57.651	26.876	24.524	0.00	0.00
ATOM	6982	H	THR	X	462	57.395	26.918	25.500	0.00	0.00
ATOM	6983	CA	THR	X	462	57.577	25.549	23.882	0.00	0.00
ATOM	6984	HA	THR	X	462	58.125	25.446	22.946	0.00	0.00
ATOM	6985	CB	THR	X	462	58.080	24.404	24.839	0.00	0.00
ATOM	6986	HB	THR	X	462	57.966	23.467	24.294	0.00	0.00
ATOM	6987	CG2	THR	X	462	59.505	24.673	25.161	0.00	0.00
ATOM	6988	HG21	THR	X	462	59.954	23.764	25.564	0.00	0.00
ATOM	6989	HG22	THR	X	462	59.678	25.591	25.721	0.00	0.00
ATOM	6990	HG23	THR	X	462	59.943	24.827	24.175	0.00	0.00
ATOM	6991	OG1	THR	X	462	57.311	24.439	26.002	0.00	0.00
ATOM	6992	HG1	THR	X	462	57.695	25.216	26.414	0.00	0.00
ATOM	6993	C	THR	X	462	56.094	25.235	23.432	0.00	0.00

ATOM	6994	O	THR	X	462	55.160	25.914	23.767	0.00	0.00
ATOM	6995	N	ALA	X	463	55.989	24.337	22.506	0.00	0.00
ATOM	6996	H	ALA	X	463	56.740	23.717	22.235	0.00	0.00
ATOM	6997	CA	ALA	X	463	54.617	23.921	22.128	0.00	0.00
ATOM	6998	HA	ALA	X	463	54.043	24.765	21.746	0.00	0.00
ATOM	6999	CB	ALA	X	463	54.680	22.857	20.988	0.00	0.00
ATOM	7000	HB1	ALA	X	463	53.769	22.258	20.985	0.00	0.00
ATOM	7001	HB2	ALA	X	463	55.538	22.193	21.096	0.00	0.00
ATOM	7002	HB3	ALA	X	463	54.719	23.418	20.054	0.00	0.00
ATOM	7003	C	ALA	X	463	53.817	23.414	23.361	0.00	0.00
ATOM	7004	O	ALA	X	463	52.758	23.956	23.546	0.00	0.00
ATOM	7005	N	GLU	X	464	54.446	22.622	24.296	0.00	0.00
ATOM	7006	H	GLU	X	464	55.400	22.354	24.101	0.00	0.00
ATOM	7007	CA	GLU	X	464	53.877	22.139	25.504	0.00	0.00
ATOM	7008	HA	GLU	X	464	53.144	21.345	25.359	0.00	0.00
ATOM	7009	CB	GLU	X	464	55.059	21.541	26.354	0.00	0.00
ATOM	7010	HB2	GLU	X	464	55.755	20.973	25.737	0.00	0.00
ATOM	7011	HB3	GLU	X	464	55.761	22.266	26.765	0.00	0.00
ATOM	7012	CG	GLU	X	464	54.704	20.524	27.442	0.00	0.00
ATOM	7013	HG2	GLU	X	464	55.611	20.347	28.019	0.00	0.00
ATOM	7014	HD3	GLU	X	464	54.060	20.957	28.207	0.00	0.00
ATOM	7015	CD	GLU	X	464	54.256	19.162	26.945	0.00	0.00
ATOM	7016	OE1	GLU	X	464	53.289	18.522	27.450	0.00	0.00
ATOM	7017	OE2	GLU	X	464	54.891	18.654	25.969	0.00	0.00
ATOM	7018	C	GLU	X	464	53.299	23.228	26.438	0.00	0.00
ATOM	7019	O	GLU	X	464	52.170	23.064	26.856	0.00	0.00
ATOM	7020	N	GLU	X	465	54.077	24.311	26.699	0.00	0.00
ATOM	7021	H	GLU	X	465	55.033	24.210	26.389	0.00	0.00
ATOM	7022	CA	GLU	X	465	53.685	25.485	27.498	0.00	0.00
ATOM	7023	HA	GLU	X	465	53.333	25.034	28.426	0.00	0.00
ATOM	7024	CB	GLU	X	465	54.937	26.420	27.550	0.00	0.00
ATOM	7025	HB2	GLU	X	465	55.422	26.446	26.574	0.00	0.00
ATOM	7026	HB3	GLU	X	465	54.677	27.454	27.777	0.00	0.00
ATOM	7027	CG	GLU	X	465	55.972	25.932	28.510	0.00	0.00
ATOM	7028	HG2	GLU	X	465	55.561	26.018	29.516	0.00	0.00
ATOM	7029	HG3	GLU	X	465	56.114	24.885	28.240	0.00	0.00
ATOM	7030	CD	GLU	X	465	57.358	26.645	28.428	0.00	0.00
ATOM	7031	OE1	GLU	X	465	58.039	26.501	27.380	0.00	0.00
ATOM	7032	OE2	GLU	X	465	57.698	27.318	29.377	0.00	0.00
ATOM	7033	C	GLU	X	465	52.485	26.220	26.885	0.00	0.00
ATOM	7034	O	GLU	X	465	51.656	26.674	27.701	0.00	0.00
ATOM	7035	N	LYS	X	466	52.412	26.275	25.547	0.00	0.00
ATOM	7036	H	LYS	X	466	53.123	25.815	24.997	0.00	0.00
ATOM	7037	CA	LYS	X	466	51.212	26.844	24.923	0.00	0.00
ATOM	7038	HA	LYS	X	466	51.004	27.801	25.402	0.00	0.00
ATOM	7039	CB	LYS	X	466	51.429	27.048	23.417	0.00	0.00
ATOM	7040	HB2	LYS	X	466	51.732	26.173	22.840	0.00	0.00
ATOM	7041	HB3	LYS	X	466	50.483	27.363	22.977	0.00	0.00
ATOM	7042	CG	LYS	X	466	52.560	27.989	23.119	0.00	0.00
ATOM	7043	HG2	LYS	X	466	52.231	28.978	23.437	0.00	0.00
ATOM	7044	HG3	LYS	X	466	53.392	27.779	23.792	0.00	0.00
ATOM	7045	CD	LYS	X	466	52.912	27.981	21.613	0.00	0.00
ATOM	7046	HD2	LYS	X	466	53.415	27.062	21.313	0.00	0.00
ATOM	7047	HD3	LYS	X	466	51.994	27.976	21.026	0.00	0.00
ATOM	7048	CE	LYS	X	466	53.832	29.156	21.255	0.00	0.00
ATOM	7049	HE2	LYS	X	466	53.226	30.040	21.451	0.00	0.00
ATOM	7050	HE3	LYS	X	466	54.698	29.267	21.908	0.00	0.00
ATOM	7051	NZ	LYS	X	466	54.037	29.090	19.805	0.00	0.00
ATOM	7052	HZ1	LYS	X	466	54.577	28.258	19.617	0.00	0.00
ATOM	7053	HZ2	LYS	X	466	53.133	29.057	19.355	0.00	0.00
ATOM	7054	HZ3	LYS	X	466	54.406	29.970	19.474	0.00	0.00
ATOM	7055	C	LYS	X	466	49.996	25.932	25.132	0.00	0.00
ATOM	7056	O	LYS	X	466	48.901	26.468	25.389	0.00	0.00
ATOM	7057	N	ILE	X	467	50.187	24.624	25.012	0.00	0.00
ATOM	7058	H	ILE	X	467	51.086	24.298	24.688	0.00	0.00
ATOM	7059	CA	ILE	X	467	49.101	23.708	25.323	0.00	0.00
ATOM	7060	HA	ILE	X	467	48.267	24.070	24.722	0.00	0.00

ATOM	7061	CB	ILE	X	467	49.392	22.268	24.934	0.00	0.00
ATOM	7062	HB	ILE	X	467	50.358	22.017	25.372	0.00	0.00
ATOM	7063	CG2	ILE	X	467	48.344	21.318	25.470	0.00	0.00
ATOM	7064	HG21	ILE	X	467	48.269	21.283	26.557	0.00	0.00
ATOM	7065	HG22	ILE	X	467	48.591	20.293	25.193	0.00	0.00
ATOM	7066	HG23	ILE	X	467	47.317	21.499	25.153	0.00	0.00
ATOM	7067	CG1	ILE	X	467	49.424	22.227	23.376	0.00	0.00
ATOM	7068	HG12	ILE	X	467	48.491	22.604	22.957	0.00	0.00
ATOM	7069	HG13	ILE	X	467	50.200	22.916	23.042	0.00	0.00
ATOM	7070	CD1	ILE	X	467	49.813	20.851	22.804	0.00	0.00
ATOM	7071	HD11	ILE	X	467	50.731	20.714	23.375	0.00	0.00
ATOM	7072	HD12	ILE	X	467	49.949	20.950	21.727	0.00	0.00
ATOM	7073	HD13	ILE	X	467	49.038	20.103	22.967	0.00	0.00
ATOM	7074	C	ILE	X	467	48.624	23.864	26.748	0.00	0.00
ATOM	7075	O	ILE	X	467	47.415	23.785	27.018	0.00	0.00
ATOM	7076	N	PHE	X	468	49.513	23.966	27.745	0.00	0.00
ATOM	7077	H	PHE	X	468	50.488	23.794	27.544	0.00	0.00
ATOM	7078	CA	PHE	X	468	49.098	24.210	29.085	0.00	0.00
ATOM	7079	HA	PHE	X	468	48.489	23.357	29.384	0.00	0.00
ATOM	7080	CB	PHE	X	468	50.324	24.013	29.903	0.00	0.00
ATOM	7081	HB2	PHE	X	468	50.760	23.044	29.659	0.00	0.00
ATOM	7082	HB3	PHE	X	468	51.028	24.715	29.456	0.00	0.00
ATOM	7083	CG	PHE	X	468	50.310	24.274	31.392	0.00	0.00
ATOM	7084	CD1	PHE	X	468	49.465	23.599	32.277	0.00	0.00
ATOM	7085	HD1	PHE	X	468	48.689	22.925	31.946	0.00	0.00
ATOM	7086	CE1	PHE	X	468	49.505	23.899	33.655	0.00	0.00
ATOM	7087	HE1	PHE	X	468	48.866	23.446	34.398	0.00	0.00
ATOM	7088	CZ	PHE	X	468	50.336	24.891	34.151	0.00	0.00
ATOM	7089	HZ	PHE	X	468	50.556	25.073	35.192	0.00	0.00
ATOM	7090	CE2	PHE	X	468	51.301	25.465	33.301	0.00	0.00
ATOM	7091	HE2	PHE	X	468	52.071	26.144	33.636	0.00	0.00
ATOM	7092	CD2	PHE	X	468	51.244	25.252	31.924	0.00	0.00
ATOM	7093	HD2	PHE	X	468	51.933	25.802	31.301	0.00	0.00
ATOM	7094	C	PHE	X	468	48.451	25.606	29.263	0.00	0.00
ATOM	7095	O	PHE	X	468	47.529	25.837	30.061	0.00	0.00
ATOM	7096	N	ALA	X	469	48.861	26.605	28.483	0.00	0.00
ATOM	7097	H	ALA	X	469	49.815	26.575	28.151	0.00	0.00
ATOM	7098	CA	ALA	X	469	48.132	27.913	28.430	0.00	0.00
ATOM	7099	HA	ALA	X	469	47.947	28.199	29.466	0.00	0.00
ATOM	7100	CB	ALA	X	469	48.862	29.042	27.642	0.00	0.00
ATOM	7101	HB1	ALA	X	469	49.611	29.576	28.227	0.00	0.00
ATOM	7102	HB2	ALA	X	469	48.179	29.876	27.480	0.00	0.00
ATOM	7103	HB3	ALA	X	469	49.282	28.801	26.665	0.00	0.00
ATOM	7104	C	ALA	X	469	46.685	27.854	27.991	0.00	0.00
ATOM	7105	O	ALA	X	469	45.808	28.318	28.659	0.00	0.00
ATOM	7106	N	GLN	X	470	46.480	27.010	27.008	0.00	0.00
ATOM	7107	H	GLN	X	470	47.294	26.546	26.631	0.00	0.00
ATOM	7108	CA	GLN	X	470	45.114	26.562	26.655	0.00	0.00
ATOM	7109	HA	GLN	X	470	44.552	27.486	26.518	0.00	0.00
ATOM	7110	CB	GLN	X	470	45.063	25.690	25.416	0.00	0.00
ATOM	7111	HB2	GLN	X	470	45.857	24.965	25.595	0.00	0.00
ATOM	7112	HB3	GLN	X	470	44.081	25.233	25.299	0.00	0.00
ATOM	7113	CG	GLN	X	470	45.268	26.463	24.079	0.00	0.00
ATOM	7114	HG2	GLN	X	470	44.401	27.115	23.971	0.00	0.00
ATOM	7115	HG3	GLN	X	470	46.126	27.131	24.169	0.00	0.00
ATOM	7116	CD	GLN	X	470	45.518	25.521	22.931	0.00	0.00
ATOM	7117	OE1	GLN	X	470	46.397	24.697	22.774	0.00	0.00
ATOM	7118	NE2	GLN	X	470	44.617	25.639	21.960	0.00	0.00
ATOM	7119	HE21	GLN	X	470	44.756	25.113	21.110	0.00	0.00
ATOM	7120	HE22	GLN	X	470	43.844	26.272	22.112	0.00	0.00
ATOM	7121	C	GLN	X	470	44.301	25.784	27.726	0.00	0.00
ATOM	7122	O	GLN	X	470	43.049	25.878	27.608	0.00	0.00
ATOM	7123	N	ARG	X	471	44.967	25.031	28.663	0.00	0.00
ATOM	7124	H	ARG	X	471	45.962	24.864	28.619	0.00	0.00
ATOM	7125	CA	ARG	X	471	44.235	24.572	29.934	0.00	0.00
ATOM	7126	HA	ARG	X	471	43.244	24.189	29.690	0.00	0.00
ATOM	7127	CB	ARG	X	471	45.022	23.454	30.687	0.00	0.00

ATOM	7128	HB2	ARG	X	471	45.969	23.763	31.130	0.00	0.00
ATOM	7129	HB3	ARG	X	471	44.394	23.175	31.533	0.00	0.00
ATOM	7130	CG	ARG	X	471	45.286	22.234	29.773	0.00	0.00
ATOM	7131	HG2	ARG	X	471	44.344	21.745	29.525	0.00	0.00
ATOM	7132	HG3	ARG	X	471	45.868	22.655	28.952	0.00	0.00
ATOM	7133	CD	ARG	X	471	46.185	21.101	30.333	0.00	0.00
ATOM	7134	HD2	ARG	X	471	46.303	20.293	29.610	0.00	0.00
ATOM	7135	HD3	ARG	X	471	47.225	21.423	30.360	0.00	0.00
ATOM	7136	NE	ARG	X	471	45.855	20.679	31.670	0.00	0.00
ATOM	7137	HE	ARG	X	471	44.851	20.605	31.750	0.00	0.00
ATOM	7138	CZ	ARG	X	471	46.588	20.615	32.792	0.00	0.00
ATOM	7139	NH1	ARG	X	471	47.892	20.570	32.671	0.00	0.00
ATOM	7140	HH11	ARG	X	471	48.373	20.572	31.783	0.00	0.00
ATOM	7141	HH12	ARG	X	471	48.533	20.559	33.451	0.00	0.00
ATOM	7142	NH2	ARG	X	471	45.974	20.400	33.902	0.00	0.00
ATOM	7143	HH21	ARG	X	471	44.966	20.341	33.888	0.00	0.00
ATOM	7144	HH22	ARG	X	471	46.534	20.394	34.743	0.00	0.00
ATOM	7145	C	ARG	X	471	43.952	25.688	30.890	0.00	0.00
ATOM	7146	O	ARG	X	471	42.863	25.668	31.477	0.00	0.00
ATOM	7147	N	LEU	X	472	44.826	26.682	30.994	0.00	0.00
ATOM	7148	H	LEU	X	472	45.694	26.641	30.481	0.00	0.00
ATOM	7149	CA	LEU	X	472	44.699	27.677	32.089	0.00	0.00
ATOM	7150	HA	LEU	X	472	44.095	27.299	32.914	0.00	0.00
ATOM	7151	CB	LEU	X	472	46.050	27.934	32.762	0.00	0.00
ATOM	7152	HB2	LEU	X	472	46.778	28.073	31.962	0.00	0.00
ATOM	7153	HB3	LEU	X	472	45.968	28.944	33.162	0.00	0.00
ATOM	7154	CG	LEU	X	472	46.490	26.896	33.930	0.00	0.00
ATOM	7155	HG	LEU	X	472	45.801	26.956	34.772	0.00	0.00
ATOM	7156	CD1	LEU	X	472	46.584	25.410	33.524	0.00	0.00
ATOM	7157	HD11	LEU	X	472	45.606	25.041	33.216	0.00	0.00
ATOM	7158	HD12	LEU	X	472	47.009	24.764	34.293	0.00	0.00
ATOM	7159	HD13	LEU	X	472	47.255	25.217	32.686	0.00	0.00
ATOM	7160	CD2	LEU	X	472	47.834	27.251	34.491	0.00	0.00
ATOM	7161	HD21	LEU	X	472	48.510	27.120	33.646	0.00	0.00
ATOM	7162	HD22	LEU	X	472	47.781	28.238	34.950	0.00	0.00
ATOM	7163	HD23	LEU	X	472	48.163	26.572	35.278	0.00	0.00
ATOM	7164	C	LEU	X	472	43.989	28.980	31.674	0.00	0.00
ATOM	7165	O	LEU	X	472	43.424	29.764	32.424	0.00	0.00
ATOM	7166	N	MET	X	473	43.766	29.136	30.369	0.00	0.00
ATOM	7167	H	MET	X	473	44.083	28.410	29.743	0.00	0.00
ATOM	7168	CA	MET	X	473	42.731	30.075	29.824	0.00	0.00
ATOM	7169	HA	MET	X	473	42.808	31.030	30.342	0.00	0.00
ATOM	7170	CB	MET	X	473	43.064	30.403	28.331	0.00	0.00
ATOM	7171	HB2	MET	X	473	43.129	29.521	27.694	0.00	0.00
ATOM	7172	HB3	MET	X	473	42.216	30.878	27.838	0.00	0.00
ATOM	7173	CG	MET	X	473	44.332	31.323	28.243	0.00	0.00
ATOM	7174	HG2	MET	X	473	44.006	32.246	28.723	0.00	0.00
ATOM	7175	HG3	MET	X	473	45.227	30.985	28.765	0.00	0.00
ATOM	7176	SD	MET	X	473	44.531	31.900	26.492	0.00	0.00
ATOM	7177	CE	MET	X	473	45.542	30.651	25.849	0.00	0.00
ATOM	7178	HE1	MET	X	473	46.268	31.049	25.140	0.00	0.00
ATOM	7179	HE2	MET	X	473	46.180	30.330	26.672	0.00	0.00
ATOM	7180	HE3	MET	X	473	44.943	29.821	25.474	0.00	0.00
ATOM	7181	C	MET	X	473	41.303	29.473	30.130	0.00	0.00
ATOM	7182	O	MET	X	473	40.359	30.221	30.473	0.00	0.00
ATOM	7183	N	ARG	X	474	41.146	28.133	30.002	0.00	0.00
ATOM	7184	H	ARG	X	474	41.996	27.641	29.766	0.00	0.00
ATOM	7185	CA	ARG	X	474	39.945	27.361	30.219	0.00	0.00
ATOM	7186	HA	ARG	X	474	39.122	27.848	29.696	0.00	0.00
ATOM	7187	CB	ARG	X	474	40.200	25.940	29.639	0.00	0.00
ATOM	7188	HB2	ARG	X	474	40.667	25.934	28.654	0.00	0.00
ATOM	7189	HB3	ARG	X	474	40.933	25.404	30.242	0.00	0.00
ATOM	7190	CG	ARG	X	474	38.908	25.105	29.584	0.00	0.00
ATOM	7191	HG2	ARG	X	474	39.211	24.100	29.290	0.00	0.00
ATOM	7192	HG3	ARG	X	474	38.548	24.973	30.604	0.00	0.00
ATOM	7193	CD	ARG	X	474	37.843	25.553	28.637	0.00	0.00
ATOM	7194	HD2	ARG	X	474	37.572	26.553	28.973	0.00	0.00

ATOM	7195	HD3	ARG	X	474	38.315	25.505	27.656	0.00	0.00
ATOM	7196	NE	ARG	X	474	36.745	24.587	28.741	0.00	0.00
ATOM	7197	HE	ARG	X	474	36.905	23.742	29.271	0.00	0.00
ATOM	7198	CZ	ARG	X	474	35.653	24.692	28.045	0.00	0.00
ATOM	7199	NH1	ARG	X	474	35.331	25.831	27.415	0.00	0.00
ATOM	7200	HH11	ARG	X	474	36.002	26.585	27.375	0.00	0.00
ATOM	7201	HH12	ARG	X	474	34.432	25.921	26.963	0.00	0.00
ATOM	7202	NH2	ARG	X	474	34.831	23.711	27.790	0.00	0.00
ATOM	7203	HH21	ARG	X	474	35.173	22.858	28.209	0.00	0.00
ATOM	7204	HH22	ARG	X	474	34.180	23.692	27.018	0.00	0.00
ATOM	7205	C	ARG	X	474	39.436	27.359	31.627	0.00	0.00
ATOM	7206	O	ARG	X	474	38.243	27.642	31.894	0.00	0.00
ATOM	7207	N	TYR	X	475	40.259	27.026	32.590	0.00	0.00
ATOM	7208	H	TYR	X	475	41.219	26.902	32.301	0.00	0.00
ATOM	7209	CA	TYR	X	475	39.869	26.928	34.001	0.00	0.00
ATOM	7210	HA	TYR	X	475	39.069	26.203	34.153	0.00	0.00
ATOM	7211	CB	TYR	X	475	41.143	26.577	34.867	0.00	0.00
ATOM	7212	HB2	TYR	X	475	41.903	27.345	34.725	0.00	0.00
ATOM	7213	HB3	TYR	X	475	40.822	26.685	35.903	0.00	0.00
ATOM	7214	CG	TYR	X	475	41.735	25.203	34.794	0.00	0.00
ATOM	7215	CD1	TYR	X	475	40.835	24.074	34.902	0.00	0.00
ATOM	7216	HD1	TYR	X	475	39.772	24.259	34.860	0.00	0.00
ATOM	7217	CE1	TYR	X	475	41.338	22.774	34.943	0.00	0.00
ATOM	7218	HE1	TYR	X	475	40.692	21.909	34.961	0.00	0.00
ATOM	7219	CZ	TYR	X	475	42.741	22.518	35.000	0.00	0.00
ATOM	7220	OH	TYR	X	475	43.211	21.320	35.021	0.00	0.00
ATOM	7221	HH	TYR	X	475	42.491	20.698	35.149	0.00	0.00
ATOM	7222	CE2	TYR	X	475	43.597	23.605	34.821	0.00	0.00
ATOM	7223	HE2	TYR	X	475	44.658	23.427	34.727	0.00	0.00
ATOM	7224	CD2	TYR	X	475	43.141	24.940	34.748	0.00	0.00
ATOM	7225	HD2	TYR	X	475	43.815	25.771	34.600	0.00	0.00
ATOM	7226	C	TYR	X	475	39.243	28.243	34.538	0.00	0.00
ATOM	7227	O	TYR	X	475	38.127	28.191	35.087	0.00	0.00
ATOM	7228	N	TRP	X	476	39.822	29.464	34.256	0.00	0.00
ATOM	7229	H	TRP	X	476	40.675	29.412	33.716	0.00	0.00
ATOM	7230	CA	TRP	X	476	39.272	30.749	34.631	0.00	0.00
ATOM	7231	HA	TRP	X	476	38.952	30.617	35.665	0.00	0.00
ATOM	7232	CB	TRP	X	476	40.403	31.795	34.497	0.00	0.00
ATOM	7233	HB2	TRP	X	476	41.103	31.610	33.682	0.00	0.00
ATOM	7234	HB3	TRP	X	476	39.909	32.759	34.380	0.00	0.00
ATOM	7235	CG	TRP	X	476	41.225	31.978	35.778	0.00	0.00
ATOM	7236	CD1	TRP	X	476	41.396	33.104	36.398	0.00	0.00
ATOM	7237	HD1	TRP	X	476	40.944	34.039	36.098	0.00	0.00
ATOM	7238	NE1	TRP	X	476	42.353	32.979	37.383	0.00	0.00
ATOM	7239	HE1	TRP	X	476	42.766	33.767	37.861	0.00	0.00
ATOM	7240	CE2	TRP	X	476	42.862	31.746	37.526	0.00	0.00
ATOM	7241	CZ2	TRP	X	476	43.929	31.201	38.279	0.00	0.00
ATOM	7242	HZ2	TRP	X	476	44.693	31.739	38.820	0.00	0.00
ATOM	7243	CH2	TRP	X	476	44.193	29.796	38.177	0.00	0.00
ATOM	7244	HH2	TRP	X	476	44.946	29.308	38.778	0.00	0.00
ATOM	7245	CZ3	TRP	X	476	43.489	29.105	37.180	0.00	0.00
ATOM	7246	HZ3	TRP	X	476	43.875	28.109	37.020	0.00	0.00
ATOM	7247	CE3	TRP	X	476	42.427	29.627	36.445	0.00	0.00
ATOM	7248	HE3	TRP	X	476	41.792	29.031	35.806	0.00	0.00
ATOM	7249	CD2	TRP	X	476	42.133	31.011	36.543	0.00	0.00
ATOM	7250	C	TRP	X	476	38.023	31.171	33.827	0.00	0.00
ATOM	7251	O	TRP	X	476	37.088	31.704	34.469	0.00	0.00
ATOM	7252	N	ALA	X	477	37.854	30.803	32.541	0.00	0.00
ATOM	7253	H	ALA	X	477	38.718	30.587	32.065	0.00	0.00
ATOM	7254	CA	ALA	X	477	36.617	30.998	31.816	0.00	0.00
ATOM	7255	HA	ALA	X	477	36.167	31.952	32.089	0.00	0.00
ATOM	7256	CB	ALA	X	477	36.748	30.964	30.356	0.00	0.00
ATOM	7257	HB1	ALA	X	477	35.806	31.328	29.946	0.00	0.00
ATOM	7258	HB2	ALA	X	477	36.859	29.948	29.977	0.00	0.00
ATOM	7259	HB3	ALA	X	477	37.568	31.566	29.962	0.00	0.00
ATOM	7260	C	ALA	X	477	35.448	30.011	32.222	0.00	0.00
ATOM	7261	O	ALA	X	477	34.306	30.464	32.330	0.00	0.00

ATOM	7262	N	ASN	X	478	35.806	28.811	32.638	0.00	0.00
ATOM	7263	H	ASN	X	478	36.771	28.514	32.599	0.00	0.00
ATOM	7264	CA	ASN	X	478	34.803	27.919	33.206	0.00	0.00
ATOM	7265	HA	ASN	X	478	33.994	27.854	32.478	0.00	0.00
ATOM	7266	CB	ASN	X	478	35.479	26.522	33.347	0.00	0.00
ATOM	7267	HB2	ASN	X	478	36.506	26.600	33.703	0.00	0.00
ATOM	7268	HB3	ASN	X	478	35.007	25.953	34.148	0.00	0.00
ATOM	7269	CG	ASN	X	478	35.421	25.644	32.110	0.00	0.00
ATOM	7270	OD1	ASN	X	478	34.752	25.966	31.093	0.00	0.00
ATOM	7271	ND2	ASN	X	478	36.107	24.489	32.142	0.00	0.00
ATOM	7272	HD21	ASN	X	478	36.340	23.993	31.293	0.00	0.00
ATOM	7273	HD22	ASN	X	478	36.630	24.301	32.985	0.00	0.00
ATOM	7274	C	ASN	X	478	34.291	28.456	34.557	0.00	0.00
ATOM	7275	O	ASN	X	478	33.117	28.502	34.881	0.00	0.00
ATOM	7276	N	PHE	X	479	35.231	28.902	35.368	0.00	0.00
ATOM	7277	H	PHE	X	479	36.156	28.785	34.979	0.00	0.00
ATOM	7278	CA	PHE	X	479	34.976	29.665	36.599	0.00	0.00
ATOM	7279	HA	PHE	X	479	34.405	28.969	37.214	0.00	0.00
ATOM	7280	CB	PHE	X	479	36.308	29.933	37.312	0.00	0.00
ATOM	7281	HB2	PHE	X	479	36.761	28.949	37.435	0.00	0.00
ATOM	7282	HB3	PHE	X	479	36.970	30.492	36.651	0.00	0.00
ATOM	7283	CG	PHE	X	479	35.970	30.516	38.651	0.00	0.00
ATOM	7284	CD1	PHE	X	479	35.656	29.664	39.777	0.00	0.00
ATOM	7285	HD1	PHE	X	479	35.590	28.611	39.548	0.00	0.00
ATOM	7286	CE1	PHE	X	479	35.309	30.133	41.062	0.00	0.00
ATOM	7287	HE1	PHE	X	479	34.908	29.460	41.805	0.00	0.00
ATOM	7288	CZ	PHE	X	479	35.165	31.540	41.222	0.00	0.00
ATOM	7289	HZ	PHE	X	479	34.818	31.868	42.190	0.00	0.00
ATOM	7290	CE2	PHE	X	479	35.595	32.412	40.163	0.00	0.00
ATOM	7291	HE2	PHE	X	479	35.604	33.480	40.324	0.00	0.00
ATOM	7292	CD2	PHE	X	479	35.902	31.926	38.848	0.00	0.00
ATOM	7293	HD2	PHE	X	479	36.136	32.654	38.086	0.00	0.00
ATOM	7294	C	PHE	X	479	34.131	30.917	36.364	0.00	0.00
ATOM	7295	O	PHE	X	479	33.279	31.308	37.153	0.00	0.00
ATOM	7296	N	ALA	X	480	34.343	31.578	35.221	0.00	0.00
ATOM	7297	H	ALA	X	480	35.088	31.274	34.612	0.00	0.00
ATOM	7298	CA	ALA	X	480	33.499	32.817	34.850	0.00	0.00
ATOM	7299	HA	ALA	X	480	33.405	33.344	35.800	0.00	0.00
ATOM	7300	CB	ALA	X	480	34.120	33.607	33.688	0.00	0.00
ATOM	7301	HB1	ALA	X	480	33.460	34.438	33.439	0.00	0.00
ATOM	7302	HB2	ALA	X	480	34.316	32.994	32.809	0.00	0.00
ATOM	7303	HB3	ALA	X	480	35.089	34.010	33.982	0.00	0.00
ATOM	7304	C	ALA	X	480	32.053	32.487	34.383	0.00	0.00
ATOM	7305	O	ALA	X	480	31.118	33.207	34.661	0.00	0.00
ATOM	7306	N	ARG	X	481	31.979	31.333	33.691	0.00	0.00
ATOM	7307	H	ARG	X	481	32.839	31.026	33.259	0.00	0.00
ATOM	7308	CA	ARG	X	481	30.732	30.722	33.097	0.00	0.00
ATOM	7309	HA	ARG	X	481	30.247	31.414	32.409	0.00	0.00
ATOM	7310	CB	ARG	X	481	31.143	29.536	32.272	0.00	0.00
ATOM	7311	HB2	ARG	X	481	31.989	29.009	32.714	0.00	0.00
ATOM	7312	HB3	ARG	X	481	30.347	28.798	32.182	0.00	0.00
ATOM	7313	CG	ARG	X	481	31.530	29.895	30.905	0.00	0.00
ATOM	7314	HG2	ARG	X	481	30.611	30.281	30.462	0.00	0.00
ATOM	7315	HG3	ARG	X	481	32.277	30.683	30.817	0.00	0.00
ATOM	7316	CD	ARG	X	481	32.011	28.593	30.073	0.00	0.00
ATOM	7317	HD2	ARG	X	481	32.759	28.228	30.778	0.00	0.00
ATOM	7318	HD3	ARG	X	481	31.194	27.873	30.016	0.00	0.00
ATOM	7319	NE	ARG	X	481	32.641	29.159	28.811	0.00	0.00
ATOM	7320	HE	ARG	X	481	31.935	29.574	28.221	0.00	0.00
ATOM	7321	CZ	ARG	X	481	33.874	29.020	28.384	0.00	0.00
ATOM	7322	NH1	ARG	X	481	34.745	28.362	29.087	0.00	0.00
ATOM	7323	HH11	ARG	X	481	34.583	28.060	30.037	0.00	0.00
ATOM	7324	HH12	ARG	X	481	35.682	28.290	28.718	0.00	0.00
ATOM	7325	NH2	ARG	X	481	34.095	29.241	27.133	0.00	0.00
ATOM	7326	HH21	ARG	X	481	33.433	29.702	26.526	0.00	0.00
ATOM	7327	HH22	ARG	X	481	34.999	28.950	26.787	0.00	0.00
ATOM	7328	C	ARG	X	481	29.782	30.159	34.155	0.00	0.00

ATOM	7329	O	ARG	X	481	28.536	30.209	33.910	0.00	0.00
ATOM	7330	N	THR	X	482	30.325	29.579	35.263	0.00	0.00
ATOM	7331	H	THR	X	482	31.328	29.585	35.379	0.00	0.00
ATOM	7332	CA	THR	X	482	29.488	28.872	36.240	0.00	0.00
ATOM	7333	HA	THR	X	482	28.447	29.195	36.214	0.00	0.00
ATOM	7334	CB	THR	X	482	29.450	27.389	35.966	0.00	0.00
ATOM	7335	HB	THR	X	482	28.665	26.933	36.569	0.00	0.00
ATOM	7336	CG2	THR	X	482	29.138	26.981	34.536	0.00	0.00
ATOM	7337	HG21	THR	X	482	29.391	25.921	34.493	0.00	0.00
ATOM	7338	HG22	THR	X	482	29.823	27.529	33.889	0.00	0.00
ATOM	7339	HG23	THR	X	482	28.104	27.231	34.299	0.00	0.00
ATOM	7340	OG1	THR	X	482	30.717	26.864	36.297	0.00	0.00
ATOM	7341	HG1	THR	X	482	30.576	26.020	36.730	0.00	0.00
ATOM	7342	C	THR	X	482	29.927	29.002	37.702	0.00	0.00
ATOM	7343	O	THR	X	482	29.113	29.044	38.637	0.00	0.00
ATOM	7344	N	GLY	X	483	31.193	29.155	37.979	0.00	0.00
ATOM	7345	H	GLY	X	483	31.783	29.221	37.161	0.00	0.00
ATOM	7346	CA	GLY	X	483	31.804	29.171	39.272	0.00	0.00
ATOM	7347	HA2	GLY	X	483	32.341	30.119	39.307	0.00	0.00
ATOM	7348	HA3	GLY	X	483	31.073	29.088	40.076	0.00	0.00
ATOM	7349	C	GLY	X	483	32.715	28.031	39.533	0.00	0.00
ATOM	7350	O	GLY	X	483	33.207	27.824	40.617	0.00	0.00
ATOM	7351	N	ASP	X	484	32.829	27.096	38.586	0.00	0.00
ATOM	7352	H	ASP	X	484	32.283	27.266	37.754	0.00	0.00
ATOM	7353	CA	ASP	X	484	33.450	25.741	38.694	0.00	0.00
ATOM	7354	HA	ASP	X	484	33.821	25.576	39.706	0.00	0.00
ATOM	7355	CB	ASP	X	484	32.338	24.741	38.443	0.00	0.00
ATOM	7356	HB2	ASP	X	484	31.434	25.102	38.933	0.00	0.00
ATOM	7357	HB3	ASP	X	484	31.993	24.705	37.410	0.00	0.00
ATOM	7358	CG	ASP	X	484	32.613	23.353	38.944	0.00	0.00
ATOM	7359	OD1	ASP	X	484	31.665	22.531	38.963	0.00	0.00
ATOM	7360	OD2	ASP	X	484	33.745	22.991	39.287	0.00	0.00
ATOM	7361	C	ASP	X	484	34.562	25.593	37.608	0.00	0.00
ATOM	7362	O	ASP	X	484	34.139	25.613	36.457	0.00	0.00
ATOM	7363	N	PRO	X	485	35.849	25.394	37.935	0.00	0.00
ATOM	7364	CD	PRO	X	485	36.488	25.646	39.228	0.00	0.00
ATOM	7365	HD2	PRO	X	485	35.873	25.339	40.073	0.00	0.00
ATOM	7366	HD3	PRO	X	485	36.744	26.699	39.345	0.00	0.00
ATOM	7367	CG	PRO	X	485	37.693	24.731	39.113	0.00	0.00
ATOM	7368	HG2	PRO	X	485	37.447	23.694	39.341	0.00	0.00
ATOM	7369	HG3	PRO	X	485	38.434	25.115	39.814	0.00	0.00
ATOM	7370	CB	PRO	X	485	38.127	24.939	37.696	0.00	0.00
ATOM	7371	HB2	PRO	X	485	38.696	24.112	37.271	0.00	0.00
ATOM	7372	HB3	PRO	X	485	38.610	25.912	37.786	0.00	0.00
ATOM	7373	CA	PRO	X	485	36.878	24.912	36.974	0.00	0.00
ATOM	7374	HA	PRO	X	485	36.989	25.621	36.153	0.00	0.00
ATOM	7375	C	PRO	X	485	36.542	23.542	36.239	0.00	0.00
ATOM	7376	O	PRO	X	485	37.234	23.266	35.259	0.00	0.00
ATOM	7377	N	ASN	X	486	35.476	22.747	36.635	0.00	0.00
ATOM	7378	H	ASN	X	486	34.964	23.067	37.444	0.00	0.00
ATOM	7379	CA	ASN	X	486	34.882	21.718	35.763	0.00	0.00
ATOM	7380	HA	ASN	X	486	35.721	21.028	35.674	0.00	0.00
ATOM	7381	CB	ASN	X	486	33.667	21.091	36.464	0.00	0.00
ATOM	7382	HB2	ASN	X	486	33.846	20.940	37.528	0.00	0.00
ATOM	7383	HB3	ASN	X	486	32.787	21.720	36.327	0.00	0.00
ATOM	7384	CG	ASN	X	486	33.418	19.669	35.925	0.00	0.00
ATOM	7385	OD1	ASN	X	486	34.074	19.220	35.000	0.00	0.00
ATOM	7386	ND2	ASN	X	486	32.374	19.067	36.548	0.00	0.00
ATOM	7387	HD21	ASN	X	486	32.198	18.091	36.357	0.00	0.00
ATOM	7388	HD22	ASN	X	486	31.837	19.520	37.272	0.00	0.00
ATOM	7389	C	ASN	X	486	34.512	22.265	34.379	0.00	0.00
ATOM	7390	O	ASN	X	486	34.015	23.355	34.170	0.00	0.00
ATOM	7391	N	GLU	X	487	34.605	21.360	33.445	0.00	0.00
ATOM	7392	H	GLU	X	487	34.741	20.430	33.817	0.00	0.00
ATOM	7393	CA	GLU	X	487	34.002	21.502	32.139	0.00	0.00
ATOM	7394	HA	GLU	X	487	34.489	22.309	31.590	0.00	0.00
ATOM	7395	CB	GLU	X	487	34.322	20.291	31.247	0.00	0.00

ATOM	7396	HB2	GLU	X	487	34.124	19.420	31.873	0.00	0.00
ATOM	7397	HB3	GLU	X	487	33.684	20.204	30.368	0.00	0.00
ATOM	7398	CG	GLU	X	487	35.828	20.214	30.868	0.00	0.00
ATOM	7399	HG2	GLU	X	487	36.438	20.398	31.753	0.00	0.00
ATOM	7400	HG3	GLU	X	487	36.005	19.267	30.359	0.00	0.00
ATOM	7401	CD	GLU	X	487	36.191	21.312	29.871	0.00	0.00
ATOM	7402	OE1	GLU	X	487	35.851	21.316	28.693	0.00	0.00
ATOM	7403	OE2	GLU	X	487	36.804	22.318	30.272	0.00	0.00
ATOM	7404	C	GLU	X	487	32.484	21.653	32.097	0.00	0.00
ATOM	7405	O	GLU	X	487	31.836	21.035	32.956	0.00	0.00
ATOM	7406	N	PRO	X	488	31.957	22.386	31.108	0.00	0.00
ATOM	7407	CD	PRO	X	488	32.567	23.522	30.380	0.00	0.00
ATOM	7408	HD2	PRO	X	488	33.506	23.252	29.897	0.00	0.00
ATOM	7409	HD3	PRO	X	488	32.879	24.242	31.136	0.00	0.00
ATOM	7410	CG	PRO	X	488	31.571	24.068	29.346	0.00	0.00
ATOM	7411	HG2	PRO	X	488	31.486	23.365	28.517	0.00	0.00
ATOM	7412	HG3	PRO	X	488	31.719	25.069	28.942	0.00	0.00
ATOM	7413	CB	PRO	X	488	30.210	23.914	30.160	0.00	0.00
ATOM	7414	HB2	PRO	X	488	29.335	23.878	29.512	0.00	0.00
ATOM	7415	HB3	PRO	X	488	30.217	24.813	30.776	0.00	0.00
ATOM	7416	CA	PRO	X	488	30.519	22.540	30.898	0.00	0.00
ATOM	7417	HA	PRO	X	488	30.034	22.532	31.875	0.00	0.00
ATOM	7418	C	PRO	X	488	29.963	21.385	30.063	0.00	0.00
ATOM	7419	O	PRO	X	488	29.027	21.504	29.273	0.00	0.00
ATOM	7420	N	ARG	X	489	30.513	20.170	30.234	0.00	0.00
ATOM	7421	H	ARG	X	489	31.100	20.084	31.052	0.00	0.00
ATOM	7422	CA	ARG	X	489	30.428	19.060	29.336	0.00	0.00
ATOM	7423	HA	ARG	X	489	29.384	18.750	29.297	0.00	0.00
ATOM	7424	CB	ARG	X	489	30.821	19.465	27.856	0.00	0.00
ATOM	7425	HB2	ARG	X	489	30.693	18.611	27.190	0.00	0.00
ATOM	7426	HB3	ARG	X	489	30.181	20.228	27.411	0.00	0.00
ATOM	7427	CG	ARG	X	489	32.298	19.836	27.839	0.00	0.00
ATOM	7428	HG2	ARG	X	489	32.487	20.711	28.461	0.00	0.00
ATOM	7429	HG3	ARG	X	489	32.899	19.024	28.250	0.00	0.00
ATOM	7430	CD	ARG	X	489	32.826	20.038	26.425	0.00	0.00
ATOM	7431	HD2	ARG	X	489	32.514	19.176	25.835	0.00	0.00
ATOM	7432	HD3	ARG	X	489	32.369	20.948	26.034	0.00	0.00
ATOM	7433	NE	ARG	X	489	34.236	20.297	26.457	0.00	0.00
ATOM	7434	HE	ARG	X	489	34.684	20.595	27.312	0.00	0.00
ATOM	7435	CZ	ARG	X	489	35.075	20.403	25.460	0.00	0.00
ATOM	7436	NH1	ARG	X	489	36.299	20.835	25.743	0.00	0.00
ATOM	7437	HH11	ARG	X	489	36.419	21.096	26.712	0.00	0.00
ATOM	7438	HH12	ARG	X	489	36.996	20.970	25.026	0.00	0.00
ATOM	7439	NH2	ARG	X	489	34.750	20.311	24.169	0.00	0.00
ATOM	7440	HH21	ARG	X	489	33.799	20.196	23.851	0.00	0.00
ATOM	7441	HH22	ARG	X	489	35.435	20.603	23.487	0.00	0.00
ATOM	7442	C	ARG	X	489	31.093	17.817	29.857	0.00	0.00
ATOM	7443	O	ARG	X	489	32.066	18.021	30.638	0.00	0.00
ATOM	7444	N	ASP	X	490	30.705	16.646	29.394	0.00	0.00
ATOM	7445	H	ASP	X	490	30.069	16.678	28.610	0.00	0.00
ATOM	7446	CA	ASP	X	490	31.320	15.390	29.825	0.00	0.00
ATOM	7447	HA	ASP	X	490	31.001	15.190	30.848	0.00	0.00
ATOM	7448	CB	ASP	X	490	30.708	14.267	29.036	0.00	0.00
ATOM	7449	HB2	ASP	X	490	29.642	14.138	29.222	0.00	0.00
ATOM	7450	HB3	ASP	X	490	30.923	14.526	27.999	0.00	0.00
ATOM	7451	CG	ASP	X	490	31.422	12.905	29.348	0.00	0.00
ATOM	7452	OD1	ASP	X	490	31.286	12.653	30.530	0.00	0.00
ATOM	7453	OD2	ASP	X	490	31.774	12.087	28.452	0.00	0.00
ATOM	7454	C	ASP	X	490	32.870	15.439	29.759	0.00	0.00
ATOM	7455	O	ASP	X	490	33.500	15.277	28.662	0.00	0.00
ATOM	7456	N	PRO	X	491	33.544	15.578	30.934	0.00	0.00
ATOM	7457	CD	PRO	X	491	33.022	15.481	32.315	0.00	0.00
ATOM	7458	HD2	PRO	X	491	32.459	14.586	32.577	0.00	0.00
ATOM	7459	HD3	PRO	X	491	32.405	16.366	32.471	0.00	0.00
ATOM	7460	CG	PRO	X	491	34.207	15.616	33.281	0.00	0.00
ATOM	7461	HG2	PRO	X	491	34.534	14.641	33.639	0.00	0.00
ATOM	7462	HG3	PRO	X	491	33.925	16.256	34.118	0.00	0.00

ATOM	7463	CB	PRO	X	491	35.302	16.141	32.394	0.00	0.00
ATOM	7464	HB2	PRO	X	491	36.279	15.745	32.671	0.00	0.00
ATOM	7465	HB3	PRO	X	491	35.306	17.214	32.584	0.00	0.00
ATOM	7466	CA	PRO	X	491	34.921	15.612	30.993	0.00	0.00
ATOM	7467	HA	PRO	X	491	35.353	16.305	30.271	0.00	0.00
ATOM	7468	C	PRO	X	491	35.539	14.252	30.746	0.00	0.00
ATOM	7469	O	PRO	X	491	34.898	13.231	30.920	0.00	0.00
ATOM	7470	N	LYS	X	492	36.785	14.196	30.263	0.00	0.00
ATOM	7471	H	LYS	X	492	37.303	15.062	30.224	0.00	0.00
ATOM	7472	CA	LYS	X	492	37.592	12.964	29.952	0.00	0.00
ATOM	7473	HA	LYS	X	492	36.983	12.103	30.228	0.00	0.00
ATOM	7474	CB	LYS	X	492	37.949	12.999	28.449	0.00	0.00
ATOM	7475	HB2	LYS	X	492	38.730	13.755	28.357	0.00	0.00
ATOM	7476	HB3	LYS	X	492	38.532	12.118	28.183	0.00	0.00
ATOM	7477	CG	LYS	X	492	36.796	13.072	27.442	0.00	0.00
ATOM	7478	HG2	LYS	X	492	36.306	14.030	27.614	0.00	0.00
ATOM	7479	HG3	LYS	X	492	37.322	13.054	26.487	0.00	0.00
ATOM	7480	CD	LYS	X	492	35.869	11.906	27.633	0.00	0.00
ATOM	7481	HD2	LYS	X	492	36.446	10.989	27.522	0.00	0.00
ATOM	7482	HD3	LYS	X	492	35.553	11.879	28.676	0.00	0.00
ATOM	7483	CE	LYS	X	492	34.704	11.829	26.595	0.00	0.00
ATOM	7484	HE2	LYS	X	492	35.094	11.742	25.581	0.00	0.00
ATOM	7485	HE3	LYS	X	492	34.106	10.962	26.876	0.00	0.00
ATOM	7486	NZ	LYS	X	492	33.771	12.960	26.720	0.00	0.00
ATOM	7487	HZ1	LYS	X	492	33.150	12.894	25.926	0.00	0.00
ATOM	7488	HZ2	LYS	X	492	33.310	12.768	27.598	0.00	0.00
ATOM	7489	HZ3	LYS	X	492	34.263	13.838	26.642	0.00	0.00
ATOM	7490	C	LYS	X	492	38.876	12.786	30.747	0.00	0.00
ATOM	7491	O	LYS	X	492	39.479	11.706	30.613	0.00	0.00
ATOM	7492	N	ALA	X	493	39.418	13.827	31.433	0.00	0.00
ATOM	7493	H	ALA	X	493	39.081	14.772	31.317	0.00	0.00
ATOM	7494	CA	ALA	X	493	40.515	13.808	32.403	0.00	0.00
ATOM	7495	HA	ALA	X	493	40.975	12.820	32.378	0.00	0.00
ATOM	7496	CB	ALA	X	493	41.509	14.968	31.933	0.00	0.00
ATOM	7497	HB1	ALA	X	493	40.850	15.820	31.769	0.00	0.00
ATOM	7498	HB2	ALA	X	493	42.092	14.699	31.051	0.00	0.00
ATOM	7499	HB3	ALA	X	493	42.248	15.265	32.677	0.00	0.00
ATOM	7500	C	ALA	X	493	40.169	14.107	33.856	0.00	0.00
ATOM	7501	O	ALA	X	493	39.043	14.643	33.993	0.00	0.00
ATOM	7502	N	PRO	X	494	41.053	13.850	34.869	0.00	0.00
ATOM	7503	CD	PRO	X	494	42.401	13.192	34.830	0.00	0.00
ATOM	7504	HD2	PRO	X	494	43.120	13.946	34.513	0.00	0.00
ATOM	7505	HD3	PRO	X	494	42.256	12.295	34.227	0.00	0.00
ATOM	7506	CG	PRO	X	494	42.764	12.850	36.284	0.00	0.00
ATOM	7507	HG2	PRO	X	494	43.851	12.850	36.362	0.00	0.00
ATOM	7508	HG3	PRO	X	494	42.345	11.874	36.528	0.00	0.00
ATOM	7509	CB	PRO	X	494	42.026	13.925	37.054	0.00	0.00
ATOM	7510	HB2	PRO	X	494	42.586	14.840	37.246	0.00	0.00
ATOM	7511	HB3	PRO	X	494	41.727	13.620	38.057	0.00	0.00
ATOM	7512	CA	PRO	X	494	40.711	14.133	36.232	0.00	0.00
ATOM	7513	HA	PRO	X	494	39.858	13.587	36.635	0.00	0.00
ATOM	7514	C	PRO	X	494	40.375	15.675	36.467	0.00	0.00
ATOM	7515	O	PRO	X	494	41.033	16.550	35.786	0.00	0.00
ATOM	7516	N	GLN	X	495	39.191	16.007	37.012	0.00	0.00
ATOM	7517	H	GLN	X	495	38.502	15.316	37.275	0.00	0.00
ATOM	7518	CA	GLN	X	495	38.754	17.371	37.166	0.00	0.00
ATOM	7519	HA	GLN	X	495	39.278	18.031	36.474	0.00	0.00
ATOM	7520	CB	GLN	X	495	37.319	17.628	36.691	0.00	0.00
ATOM	7521	HB2	GLN	X	495	36.616	17.040	37.282	0.00	0.00
ATOM	7522	HB3	GLN	X	495	37.046	18.682	36.747	0.00	0.00
ATOM	7523	CG	GLN	X	495	37.050	17.218	35.270	0.00	0.00
ATOM	7524	HG2	GLN	X	495	37.347	16.177	35.146	0.00	0.00
ATOM	7525	HG3	GLN	X	495	35.979	17.342	35.105	0.00	0.00
ATOM	7526	CD	GLN	X	495	37.741	18.017	34.135	0.00	0.00
ATOM	7527	OE1	GLN	X	495	37.320	18.999	33.620	0.00	0.00
ATOM	7528	NE2	GLN	X	495	38.835	17.603	33.690	0.00	0.00
ATOM	7529	HE21	GLN	X	495	39.237	18.123	32.923	0.00	0.00

ATOM	7530	HE22	GLN	X	495	39.322	16.849	34.152	0.00	0.00
ATOM	7531	C	GLN	X	495	38.949	18.038	38.604	0.00	0.00
ATOM	7532	O	GLN	X	495	38.885	17.300	39.588	0.00	0.00
ATOM	7533	N	TRP	X	496	39.198	19.363	38.679	0.00	0.00
ATOM	7534	H	TRP	X	496	38.946	19.922	37.876	0.00	0.00
ATOM	7535	CA	TRP	X	496	39.599	20.143	39.811	0.00	0.00
ATOM	7536	HA	TRP	X	496	40.549	19.830	40.243	0.00	0.00
ATOM	7537	CB	TRP	X	496	39.919	21.520	39.314	0.00	0.00
ATOM	7538	HB2	TRP	X	496	40.646	21.392	38.513	0.00	0.00
ATOM	7539	HB3	TRP	X	496	39.006	21.844	38.813	0.00	0.00
ATOM	7540	CG	TRP	X	496	40.589	22.513	40.192	0.00	0.00
ATOM	7541	CD1	TRP	X	496	40.720	22.397	41.533	0.00	0.00
ATOM	7542	HD1	TRP	X	496	40.335	21.585	42.133	0.00	0.00
ATOM	7543	NE1	TRP	X	496	41.342	23.504	42.059	0.00	0.00
ATOM	7544	HE1	TRP	X	496	41.468	23.618	43.055	0.00	0.00
ATOM	7545	CE2	TRP	X	496	41.616	24.422	41.057	0.00	0.00
ATOM	7546	CZ2	TRP	X	496	42.258	25.675	41.070	0.00	0.00
ATOM	7547	HZ2	TRP	X	496	42.607	26.092	42.003	0.00	0.00
ATOM	7548	CH2	TRP	X	496	42.505	26.268	39.823	0.00	0.00
ATOM	7549	HH2	TRP	X	496	43.023	27.213	39.746	0.00	0.00
ATOM	7550	CZ3	TRP	X	496	42.130	25.738	38.547	0.00	0.00
ATOM	7551	HZ3	TRP	X	496	42.282	26.319	37.650	0.00	0.00
ATOM	7552	CE3	TRP	X	496	41.469	24.468	38.580	0.00	0.00
ATOM	7553	HE3	TRP	X	496	41.082	23.940	37.721	0.00	0.00
ATOM	7554	CD2	TRP	X	496	41.219	23.815	39.844	0.00	0.00
ATOM	7555	C	TRP	X	496	38.554	20.087	40.948	0.00	0.00
ATOM	7556	O	TRP	X	496	37.426	20.543	40.680	0.00	0.00
ATOM	7557	N	PRO	X	497	38.772	19.524	42.142	0.00	0.00
ATOM	7558	CD	PRO	X	497	40.034	18.896	42.597	0.00	0.00
ATOM	7559	HD2	PRO	X	497	40.851	19.602	42.446	0.00	0.00
ATOM	7560	HD3	PRO	X	497	40.209	17.921	42.143	0.00	0.00
ATOM	7561	CG	PRO	X	497	39.747	18.540	44.071	0.00	0.00
ATOM	7562	HG2	PRO	X	497	40.287	19.176	44.773	0.00	0.00
ATOM	7563	HG3	PRO	X	497	40.142	17.542	44.260	0.00	0.00
ATOM	7564	CB	PRO	X	497	38.253	18.617	44.291	0.00	0.00
ATOM	7565	HB2	PRO	X	497	37.970	18.898	45.306	0.00	0.00
ATOM	7566	HB3	PRO	X	497	37.860	17.618	44.101	0.00	0.00
ATOM	7567	CA	PRO	X	497	37.735	19.458	43.200	0.00	0.00
ATOM	7568	HA	PRO	X	497	36.737	19.097	42.951	0.00	0.00
ATOM	7569	C	PRO	X	497	37.519	20.806	43.873	0.00	0.00
ATOM	7570	O	PRO	X	497	38.312	21.669	43.730	0.00	0.00
ATOM	7571	N	PRO	X	498	36.451	20.936	44.681	0.00	0.00
ATOM	7572	CD	PRO	X	498	35.133	20.351	44.543	0.00	0.00
ATOM	7573	HD2	PRO	X	498	35.192	19.379	45.032	0.00	0.00
ATOM	7574	HD3	PRO	X	498	34.875	20.289	43.486	0.00	0.00
ATOM	7575	CG	PRO	X	498	34.122	21.294	45.206	0.00	0.00
ATOM	7576	HG2	PRO	X	498	33.267	20.710	45.546	0.00	0.00
ATOM	7577	HG3	PRO	X	498	33.830	22.141	44.584	0.00	0.00
ATOM	7578	CB	PRO	X	498	34.952	21.822	46.339	0.00	0.00
ATOM	7579	HB2	PRO	X	498	34.854	21.019	47.070	0.00	0.00
ATOM	7580	HB3	PRO	X	498	34.519	22.744	46.726	0.00	0.00
ATOM	7581	CA	PRO	X	498	36.343	22.005	45.705	0.00	0.00
ATOM	7582	HA	PRO	X	498	36.464	22.986	45.247	0.00	0.00
ATOM	7583	C	PRO	X	498	37.391	21.880	46.875	0.00	0.00
ATOM	7584	O	PRO	X	498	37.780	20.800	47.281	0.00	0.00
ATOM	7585	N	TYR	X	499	37.700	23.001	47.466	0.00	0.00
ATOM	7586	H	TYR	X	499	37.200	23.797	47.097	0.00	0.00
ATOM	7587	CA	TYR	X	499	38.465	23.217	48.672	0.00	0.00
ATOM	7588	HA	TYR	X	499	39.065	22.308	48.719	0.00	0.00
ATOM	7589	CB	TYR	X	499	39.206	24.614	48.570	0.00	0.00
ATOM	7590	HB2	TYR	X	499	39.785	24.688	47.649	0.00	0.00
ATOM	7591	HB3	TYR	X	499	38.508	25.447	48.484	0.00	0.00
ATOM	7592	CG	TYR	X	499	40.083	24.754	49.775	0.00	0.00
ATOM	7593	CD1	TYR	X	499	39.557	25.441	50.918	0.00	0.00
ATOM	7594	HD1	TYR	X	499	38.518	25.733	50.883	0.00	0.00
ATOM	7595	CE1	TYR	X	499	40.399	25.711	51.967	0.00	0.00
ATOM	7596	HE1	TYR	X	499	40.030	26.382	52.730	0.00	0.00

ATOM	7597	CZ	TYR	X	499	41.693	25.202	52.019	0.00	0.00
ATOM	7598	OH	TYR	X	499	42.410	25.346	53.154	0.00	0.00
ATOM	7599	HH	TYR	X	499	41.856	25.613	53.891	0.00	0.00
ATOM	7600	CE2	TYR	X	499	42.163	24.431	50.926	0.00	0.00
ATOM	7601	HE2	TYR	X	499	43.155	24.006	50.886	0.00	0.00
ATOM	7602	CD2	TYR	X	499	41.347	24.185	49.827	0.00	0.00
ATOM	7603	HD2	TYR	X	499	41.668	23.666	48.935	0.00	0.00
ATOM	7604	C	TYR	X	499	37.435	23.215	49.851	0.00	0.00
ATOM	7605	O	TYR	X	499	36.336	23.832	49.713	0.00	0.00
ATOM	7606	N	THR	X	500	37.867	22.564	50.929	0.00	0.00
ATOM	7607	H	THR	X	500	38.604	21.876	50.865	0.00	0.00
ATOM	7608	CA	THR	X	500	37.162	22.688	52.248	0.00	0.00
ATOM	7609	HA	THR	X	500	36.297	23.352	52.248	0.00	0.00
ATOM	7610	CB	THR	X	500	36.674	21.312	52.614	0.00	0.00
ATOM	7611	HB	THR	X	500	36.239	21.285	53.613	0.00	0.00
ATOM	7612	CG2	THR	X	500	35.632	20.841	51.629	0.00	0.00
ATOM	7613	HG21	THR	X	500	36.120	20.627	50.679	0.00	0.00
ATOM	7614	HG22	THR	X	500	34.897	21.627	51.460	0.00	0.00
ATOM	7615	HG23	THR	X	500	35.118	19.991	52.079	0.00	0.00
ATOM	7616	OG1	THR	X	500	37.751	20.399	52.700	0.00	0.00
ATOM	7617	HG1	THR	X	500	37.360	19.655	53.164	0.00	0.00
ATOM	7618	C	THR	X	500	38.047	23.147	53.434	0.00	0.00
ATOM	7619	O	THR	X	500	39.253	23.019	53.296	0.00	0.00
ATOM	7620	N	ALA	X	501	37.550	23.578	54.602	0.00	0.00
ATOM	7621	H	ALA	X	501	36.542	23.643	54.627	0.00	0.00
ATOM	7622	CA	ALA	X	501	38.411	23.757	55.778	0.00	0.00
ATOM	7623	HA	ALA	X	501	39.311	24.273	55.444	0.00	0.00
ATOM	7624	CB	ALA	X	501	37.751	24.614	56.866	0.00	0.00
ATOM	7625	HB1	ALA	X	501	36.736	24.252	57.031	0.00	0.00
ATOM	7626	HB2	ALA	X	501	37.668	25.641	56.511	0.00	0.00
ATOM	7627	HB3	ALA	X	501	38.379	24.488	57.748	0.00	0.00
ATOM	7628	C	ALA	X	501	38.941	22.459	56.387	0.00	0.00
ATOM	7629	O	ALA	X	501	39.820	22.543	57.298	0.00	0.00
ATOM	7630	N	GLY	X	502	38.362	21.283	56.067	0.00	0.00
ATOM	7631	H	GLY	X	502	37.640	21.316	55.362	0.00	0.00
ATOM	7632	CA	GLY	X	502	38.646	19.978	56.629	0.00	0.00
ATOM	7633	HA2	GLY	X	502	38.814	20.101	57.699	0.00	0.00
ATOM	7634	HA3	GLY	X	502	37.839	19.275	56.418	0.00	0.00
ATOM	7635	C	GLY	X	502	39.881	19.390	55.884	0.00	0.00
ATOM	7636	O	GLY	X	502	41.031	19.517	56.349	0.00	0.00
ATOM	7637	N	ALA	X	503	39.595	18.742	54.748	0.00	0.00
ATOM	7638	H	ALA	X	503	38.597	18.640	54.631	0.00	0.00
ATOM	7639	CA	ALA	X	503	40.582	18.095	53.917	0.00	0.00
ATOM	7640	HA	ALA	X	503	41.290	17.583	54.569	0.00	0.00
ATOM	7641	CB	ALA	X	503	39.883	17.331	52.863	0.00	0.00
ATOM	7642	HB1	ALA	X	503	39.055	17.848	52.379	0.00	0.00
ATOM	7643	HB2	ALA	X	503	39.367	16.478	53.302	0.00	0.00
ATOM	7644	HB3	ALA	X	503	40.592	16.936	52.136	0.00	0.00
ATOM	7645	C	ALA	X	503	41.475	19.083	53.169	0.00	0.00
ATOM	7646	O	ALA	X	503	42.703	18.770	53.033	0.00	0.00
ATOM	7647	N	GLN	X	504	40.986	20.136	52.514	0.00	0.00
ATOM	7648	H	GLN	X	504	39.980	20.209	52.454	0.00	0.00
ATOM	7649	CA	GLN	X	504	41.716	21.335	52.115	0.00	0.00
ATOM	7650	HA	GLN	X	504	40.987	22.096	51.837	0.00	0.00
ATOM	7651	CB	GLN	X	504	42.702	21.871	53.169	0.00	0.00
ATOM	7652	HB2	GLN	X	504	43.360	21.062	53.485	0.00	0.00
ATOM	7653	HB3	GLN	X	504	43.321	22.708	52.845	0.00	0.00
ATOM	7654	CG	GLN	X	504	42.013	22.262	54.470	0.00	0.00
ATOM	7655	HG2	GLN	X	504	41.421	23.127	54.169	0.00	0.00
ATOM	7656	HG3	GLN	X	504	41.456	21.459	54.952	0.00	0.00
ATOM	7657	CD	GLN	X	504	43.046	22.554	55.536	0.00	0.00
ATOM	7658	OE1	GLN	X	504	44.218	22.537	55.291	0.00	0.00
ATOM	7659	NE2	GLN	X	504	42.731	22.897	56.732	0.00	0.00
ATOM	7660	HE21	GLN	X	504	43.499	23.025	57.375	0.00	0.00
ATOM	7661	HE22	GLN	X	504	41.825	22.687	57.125	0.00	0.00
ATOM	7662	C	GLN	X	504	42.371	20.937	50.787	0.00	0.00
ATOM	7663	O	GLN	X	504	43.522	21.321	50.590	0.00	0.00

ATOM	7664	N	GLN	X	505	41.701	20.201	49.958	0.00	0.00
ATOM	7665	H	GLN	X	505	40.820	19.830	50.285	0.00	0.00
ATOM	7666	CA	GLN	X	505	42.221	19.728	48.683	0.00	0.00
ATOM	7667	HA	GLN	X	505	43.082	19.081	48.851	0.00	0.00
ATOM	7668	CB	GLN	X	505	41.082	18.931	48.069	0.00	0.00
ATOM	7669	HB2	GLN	X	505	40.141	19.418	47.815	0.00	0.00
ATOM	7670	HB3	GLN	X	505	41.521	18.741	47.090	0.00	0.00
ATOM	7671	CG	GLN	X	505	40.754	17.499	48.676	0.00	0.00
ATOM	7672	HG2	GLN	X	505	41.705	17.063	48.982	0.00	0.00
ATOM	7673	HG3	GLN	X	505	40.141	17.507	49.577	0.00	0.00
ATOM	7674	CD	GLN	X	505	40.124	16.616	47.645	0.00	0.00
ATOM	7675	OE1	GLN	X	505	39.046	16.843	47.070	0.00	0.00
ATOM	7676	NE2	GLN	X	505	40.764	15.519	47.281	0.00	0.00
ATOM	7677	HE21	GLN	X	505	40.284	15.021	46.544	0.00	0.00
ATOM	7678	HE22	GLN	X	505	41.613	15.163	47.697	0.00	0.00
ATOM	7679	C	GLN	X	505	42.605	20.905	47.719	0.00	0.00
ATOM	7680	O	GLN	X	505	41.714	21.670	47.282	0.00	0.00
ATOM	7681	N	TYR	X	506	43.919	21.018	47.289	0.00	0.00
ATOM	7682	H	TYR	X	506	44.502	20.230	47.534	0.00	0.00
ATOM	7683	CA	TYR	X	506	44.403	22.113	46.509	0.00	0.00
ATOM	7684	HA	TYR	X	506	43.600	22.671	46.027	0.00	0.00
ATOM	7685	CB	TYR	X	506	45.099	23.087	47.434	0.00	0.00
ATOM	7686	HB2	TYR	X	506	45.127	24.037	46.900	0.00	0.00
ATOM	7687	HB3	TYR	X	506	44.506	23.284	48.327	0.00	0.00
ATOM	7688	CG	TYR	X	506	46.485	22.739	47.964	0.00	0.00
ATOM	7689	CD1	TYR	X	506	46.633	21.915	49.083	0.00	0.00
ATOM	7690	HD1	TYR	X	506	45.744	21.503	49.538	0.00	0.00
ATOM	7691	CE1	TYR	X	506	47.936	21.675	49.541	0.00	0.00
ATOM	7692	HE1	TYR	X	506	48.062	21.025	50.395	0.00	0.00
ATOM	7693	CZ	TYR	X	506	49.107	22.186	48.932	0.00	0.00
ATOM	7694	OH	TYR	X	506	50.353	21.739	49.191	0.00	0.00
ATOM	7695	HH	TYR	X	506	50.318	21.082	49.890	0.00	0.00
ATOM	7696	CE2	TYR	X	506	48.961	23.040	47.814	0.00	0.00
ATOM	7697	HE2	TYR	X	506	49.808	23.346	47.218	0.00	0.00
ATOM	7698	CD2	TYR	X	506	47.630	23.249	47.332	0.00	0.00
ATOM	7699	HD2	TYR	X	506	47.471	23.838	46.441	0.00	0.00
ATOM	7700	C	TYR	X	506	45.291	21.544	45.361	0.00	0.00
ATOM	7701	O	TYR	X	506	46.080	20.605	45.483	0.00	0.00
ATOM	7702	N	VAL	X	507	45.174	21.993	44.119	0.00	0.00
ATOM	7703	H	VAL	X	507	44.434	22.668	43.991	0.00	0.00
ATOM	7704	CA	VAL	X	507	45.785	21.256	42.929	0.00	0.00
ATOM	7705	HA	VAL	X	507	45.957	20.238	43.278	0.00	0.00
ATOM	7706	CB	VAL	X	507	44.752	21.136	41.771	0.00	0.00
ATOM	7707	HB	VAL	X	507	45.025	20.246	41.203	0.00	0.00
ATOM	7708	CG1	VAL	X	507	43.347	20.722	42.184	0.00	0.00
ATOM	7709	HG11	VAL	X	507	42.969	21.320	43.013	0.00	0.00
ATOM	7710	HG12	VAL	X	507	42.689	20.724	41.315	0.00	0.00
ATOM	7711	HG13	VAL	X	507	43.434	19.662	42.423	0.00	0.00
ATOM	7712	CG2	VAL	X	507	44.614	22.496	41.096	0.00	0.00
ATOM	7713	HG21	VAL	X	507	45.586	22.871	40.774	0.00	0.00
ATOM	7714	HG22	VAL	X	507	44.199	23.339	41.648	0.00	0.00
ATOM	7715	HG23	VAL	X	507	43.938	22.403	40.246	0.00	0.00
ATOM	7716	C	VAL	X	507	47.168	21.796	42.485	0.00	0.00
ATOM	7717	O	VAL	X	507	47.448	22.978	42.635	0.00	0.00
ATOM	7718	N	SER	X	508	47.955	20.915	41.820	0.00	0.00
ATOM	7719	H	SER	X	508	47.784	19.925	41.921	0.00	0.00
ATOM	7720	CA	SER	X	508	49.066	21.365	41.028	0.00	0.00
ATOM	7721	HA	SER	X	508	49.507	22.260	41.467	0.00	0.00
ATOM	7722	CB	SER	X	508	50.055	20.178	40.931	0.00	0.00
ATOM	7723	HB2	SER	X	508	49.526	19.372	40.422	0.00	0.00
ATOM	7724	HB3	SER	X	508	50.860	20.624	40.347	0.00	0.00
ATOM	7725	OG	SER	X	508	50.535	19.842	42.200	0.00	0.00
ATOM	7726	HG	SER	X	508	51.195	20.509	42.404	0.00	0.00
ATOM	7727	C	SER	X	508	48.794	21.788	39.582	0.00	0.00
ATOM	7728	O	SER	X	508	48.507	21.009	38.678	0.00	0.00
ATOM	7729	N	LEU	X	509	48.887	23.139	39.356	0.00	0.00
ATOM	7730	H	LEU	X	509	49.382	23.741	39.999	0.00	0.00

ATOM	7731	CA	LEU	X	509	48.933	23.678	38.016	0.00	0.00
ATOM	7732	HA	LEU	X	509	48.348	23.104	37.298	0.00	0.00
ATOM	7733	CB	LEU	X	509	48.367	25.132	38.025	0.00	0.00
ATOM	7734	HB2	LEU	X	509	48.986	25.746	38.679	0.00	0.00
ATOM	7735	HB3	LEU	X	509	48.512	25.475	37.000	0.00	0.00
ATOM	7736	CG	LEU	X	509	46.846	25.184	38.430	0.00	0.00
ATOM	7737	HG	LEU	X	509	46.756	24.778	39.438	0.00	0.00
ATOM	7738	CD1	LEU	X	509	46.446	26.658	38.361	0.00	0.00
ATOM	7739	HD11	LEU	X	509	45.665	26.720	39.119	0.00	0.00
ATOM	7740	HD12	LEU	X	509	46.052	26.883	37.370	0.00	0.00
ATOM	7741	HD13	LEU	X	509	47.244	27.364	38.588	0.00	0.00
ATOM	7742	CD2	LEU	X	509	45.923	24.333	37.543	0.00	0.00
ATOM	7743	HD21	LEU	X	509	46.039	24.539	36.479	0.00	0.00
ATOM	7744	HD22	LEU	X	509	46.145	23.281	37.725	0.00	0.00
ATOM	7745	HD23	LEU	X	509	44.864	24.456	37.769	0.00	0.00
ATOM	7746	C	LEU	X	509	50.316	23.567	37.508	0.00	0.00
ATOM	7747	O	LEU	X	509	51.174	24.334	37.986	0.00	0.00
ATOM	7748	N	ASP	X	510	50.463	22.621	36.605	0.00	0.00
ATOM	7749	H	ASP	X	510	49.669	22.055	36.340	0.00	0.00
ATOM	7750	CA	ASP	X	510	51.706	22.259	35.963	0.00	0.00
ATOM	7751	HA	ASP	X	510	52.230	23.200	35.798	0.00	0.00
ATOM	7752	CB	ASP	X	510	52.506	21.310	36.921	0.00	0.00
ATOM	7753	HB2	ASP	X	510	52.738	21.937	37.782	0.00	0.00
ATOM	7754	HB3	ASP	X	510	51.863	20.476	37.206	0.00	0.00
ATOM	7755	CG	ASP	X	510	53.794	20.738	36.373	0.00	0.00
ATOM	7756	OD1	ASP	X	510	53.876	19.521	36.343	0.00	0.00
ATOM	7757	OD2	ASP	X	510	54.639	21.586	36.014	0.00	0.00
ATOM	7758	C	ASP	X	510	51.475	21.627	34.520	0.00	0.00
ATOM	7759	O	ASP	X	510	50.333	21.240	34.149	0.00	0.00
ATOM	7760	N	LEU	X	511	52.508	21.272	33.815	0.00	0.00
ATOM	7761	H	LEU	X	511	53.451	21.434	34.141	0.00	0.00
ATOM	7762	CA	LEU	X	511	52.515	20.489	32.553	0.00	0.00
ATOM	7763	HA	LEU	X	511	51.764	20.907	31.883	0.00	0.00
ATOM	7764	CB	LEU	X	511	53.876	20.684	31.950	0.00	0.00
ATOM	7765	HB2	LEU	X	511	54.604	20.077	32.487	0.00	0.00
ATOM	7766	HB3	LEU	X	511	53.823	20.296	30.932	0.00	0.00
ATOM	7767	CG	LEU	X	511	54.539	22.096	31.789	0.00	0.00
ATOM	7768	HG	LEU	X	511	54.798	22.484	32.774	0.00	0.00
ATOM	7769	CD1	LEU	X	511	55.781	21.951	31.011	0.00	0.00
ATOM	7770	HD11	LEU	X	511	55.743	21.328	30.118	0.00	0.00
ATOM	7771	HD12	LEU	X	511	56.538	21.470	31.631	0.00	0.00
ATOM	7772	HD13	LEU	X	511	56.245	22.918	30.815	0.00	0.00
ATOM	7773	CD2	LEU	X	511	53.612	23.054	30.956	0.00	0.00
ATOM	7774	HD21	LEU	X	511	53.834	24.117	31.045	0.00	0.00
ATOM	7775	HD22	LEU	X	511	53.670	22.765	29.907	0.00	0.00
ATOM	7776	HD23	LEU	X	511	52.615	23.047	31.395	0.00	0.00
ATOM	7777	C	LEU	X	511	52.219	18.984	32.637	0.00	0.00
ATOM	7778	O	LEU	X	511	52.210	18.328	31.604	0.00	0.00
ATOM	7779	N	ARG	X	512	51.969	18.458	33.811	0.00	0.00
ATOM	7780	H	ARG	X	512	52.109	18.930	34.693	0.00	0.00
ATOM	7781	CA	ARG	X	512	51.504	17.111	34.041	0.00	0.00
ATOM	7782	HA	ARG	X	512	51.822	16.569	33.151	0.00	0.00
ATOM	7783	CB	ARG	X	512	52.296	16.444	35.190	0.00	0.00
ATOM	7784	HB2	ARG	X	512	52.147	15.368	35.097	0.00	0.00
ATOM	7785	HB3	ARG	X	512	53.355	16.677	35.075	0.00	0.00
ATOM	7786	CG	ARG	X	512	51.901	16.961	36.614	0.00	0.00
ATOM	7787	HG2	ARG	X	512	51.910	18.051	36.606	0.00	0.00
ATOM	7788	HG3	ARG	X	512	50.938	16.526	36.879	0.00	0.00
ATOM	7789	CD	ARG	X	512	53.013	16.487	37.583	0.00	0.00
ATOM	7790	HD2	ARG	X	512	53.097	15.404	37.493	0.00	0.00
ATOM	7791	HD3	ARG	X	512	53.953	16.941	37.270	0.00	0.00
ATOM	7792	NE	ARG	X	512	52.752	16.764	38.998	0.00	0.00
ATOM	7793	HE	ARG	X	512	52.250	16.066	39.526	0.00	0.00
ATOM	7794	CZ	ARG	X	512	53.013	17.829	39.768	0.00	0.00
ATOM	7795	NH1	ARG	X	512	53.452	18.897	39.186	0.00	0.00
ATOM	7796	HH11	ARG	X	512	53.569	19.058	38.195	0.00	0.00
ATOM	7797	HH12	ARG	X	512	53.554	19.681	39.815	0.00	0.00

ATOM	7798	NH2	ARG	X	512	52.830	17.797	41.088	0.00	0.00
ATOM	7799	HH21	ARG	X	512	52.495	16.993	41.601	0.00	0.00
ATOM	7800	HH22	ARG	X	512	53.117	18.583	41.653	0.00	0.00
ATOM	7801	C	ARG	X	512	49.985	17.090	34.263	0.00	0.00
ATOM	7802	O	ARG	X	512	49.443	17.995	34.919	0.00	0.00
ATOM	7803	N	PRO	X	513	49.405	15.932	33.839	0.00	0.00
ATOM	7804	CD	PRO	X	513	49.983	14.781	33.063	0.00	0.00
ATOM	7805	HD2	PRO	X	513	50.629	14.178	33.702	0.00	0.00
ATOM	7806	HD3	PRO	X	513	50.637	15.071	32.240	0.00	0.00
ATOM	7807	CG	PRO	X	513	48.837	13.978	32.630	0.00	0.00
ATOM	7808	HG2	PRO	X	513	49.207	12.982	32.387	0.00	0.00
ATOM	7809	HG3	PRO	X	513	48.483	14.497	31.739	0.00	0.00
ATOM	7810	CB	PRO	X	513	47.869	14.056	33.846	0.00	0.00
ATOM	7811	HB2	PRO	X	513	48.258	13.400	34.625	0.00	0.00
ATOM	7812	HB3	PRO	X	513	46.870	13.697	33.599	0.00	0.00
ATOM	7813	CA	PRO	X	513	48.053	15.487	34.240	0.00	0.00
ATOM	7814	HA	PRO	X	513	47.397	16.173	33.705	0.00	0.00
ATOM	7815	C	PRO	X	513	47.797	15.632	35.701	0.00	0.00
ATOM	7816	O	PRO	X	513	48.673	15.383	36.576	0.00	0.00
ATOM	7817	N	LEU	X	514	46.534	16.082	36.024	0.00	0.00
ATOM	7818	H	LEU	X	514	45.877	16.005	35.261	0.00	0.00
ATOM	7819	CA	LEU	X	514	46.189	16.891	37.222	0.00	0.00
ATOM	7820	HA	LEU	X	514	46.934	17.681	37.321	0.00	0.00
ATOM	7821	CB	LEU	X	514	44.804	17.487	37.095	0.00	0.00
ATOM	7822	HB2	LEU	X	514	44.684	18.045	36.166	0.00	0.00
ATOM	7823	HB3	LEU	X	514	44.080	16.677	37.181	0.00	0.00
ATOM	7824	CG	LEU	X	514	44.495	18.456	38.229	0.00	0.00
ATOM	7825	HG	LEU	X	514	45.388	18.772	38.768	0.00	0.00
ATOM	7826	CD1	LEU	X	514	43.728	19.699	37.666	0.00	0.00
ATOM	7827	HD11	LEU	X	514	43.392	20.327	38.491	0.00	0.00
ATOM	7828	HD12	LEU	X	514	42.910	19.484	36.978	0.00	0.00
ATOM	7829	HD13	LEU	X	514	44.433	20.314	37.108	0.00	0.00
ATOM	7830	CD2	LEU	X	514	43.635	17.741	39.322	0.00	0.00
ATOM	7831	HD21	LEU	X	514	42.609	17.782	38.955	0.00	0.00
ATOM	7832	HD22	LEU	X	514	43.946	16.719	39.538	0.00	0.00
ATOM	7833	HD23	LEU	X	514	43.866	18.249	40.258	0.00	0.00
ATOM	7834	C	LEU	X	514	46.275	16.006	38.541	0.00	0.00
ATOM	7835	O	LEU	X	514	45.648	14.935	38.656	0.00	0.00
ATOM	7836	N	GLU	X	515	47.034	16.469	39.567	0.00	0.00
ATOM	7837	H	GLU	X	515	47.525	17.311	39.303	0.00	0.00
ATOM	7838	CA	GLU	X	515	47.239	15.878	40.873	0.00	0.00
ATOM	7839	HA	GLU	X	515	46.634	14.978	40.986	0.00	0.00
ATOM	7840	CB	GLU	X	515	48.750	15.447	40.988	0.00	0.00
ATOM	7841	HB2	GLU	X	515	49.415	16.285	40.779	0.00	0.00
ATOM	7842	HB3	GLU	X	515	48.903	15.061	41.996	0.00	0.00
ATOM	7843	CG	GLU	X	515	49.089	14.351	40.088	0.00	0.00
ATOM	7844	HG2	GLU	X	515	48.513	13.502	40.456	0.00	0.00
ATOM	7845	HG3	GLU	X	515	48.952	14.580	39.031	0.00	0.00
ATOM	7846	CD	GLU	X	515	50.544	13.947	40.351	0.00	0.00
ATOM	7847	OE1	GLU	X	515	51.393	14.367	39.578	0.00	0.00
ATOM	7848	OE2	GLU	X	515	50.903	13.334	41.345	0.00	0.00
ATOM	7849	C	GLU	X	515	46.875	16.788	42.033	0.00	0.00
ATOM	7850	O	GLU	X	515	47.127	18.005	41.970	0.00	0.00
ATOM	7851	N	VAL	X	516	46.222	16.226	43.073	0.00	0.00
ATOM	7852	H	VAL	X	516	45.994	15.243	43.038	0.00	0.00
ATOM	7853	CA	VAL	X	516	45.639	17.018	44.175	0.00	0.00
ATOM	7854	HA	VAL	X	516	45.735	18.056	43.854	0.00	0.00
ATOM	7855	CB	VAL	X	516	44.115	16.681	44.335	0.00	0.00
ATOM	7856	HB	VAL	X	516	44.065	15.825	45.008	0.00	0.00
ATOM	7857	CG1	VAL	X	516	43.390	17.863	45.041	0.00	0.00
ATOM	7858	HG11	VAL	X	516	43.475	18.869	44.630	0.00	0.00
ATOM	7859	HG12	VAL	X	516	42.372	17.550	45.274	0.00	0.00
ATOM	7860	HG13	VAL	X	516	43.921	17.935	45.990	0.00	0.00
ATOM	7861	CG2	VAL	X	516	43.322	16.342	43.066	0.00	0.00
ATOM	7862	HG21	VAL	X	516	43.366	17.180	42.371	0.00	0.00
ATOM	7863	HG22	VAL	X	516	42.292	16.182	43.387	0.00	0.00
ATOM	7864	HG23	VAL	X	516	43.740	15.459	42.583	0.00	0.00

ATOM	7865	C	VAL	X	516	46.470	16.809	45.466	0.00	0.00
ATOM	7866	O	VAL	X	516	46.502	15.687	46.071	0.00	0.00
ATOM	7867	N	ARG	X	517	47.058	17.860	45.966	0.00	0.00
ATOM	7868	H	ARG	X	517	46.835	18.699	45.449	0.00	0.00
ATOM	7869	CA	ARG	X	517	47.705	18.019	47.297	0.00	0.00
ATOM	7870	HA	ARG	X	517	48.231	17.103	47.564	0.00	0.00
ATOM	7871	CB	ARG	X	517	48.648	19.209	47.245	0.00	0.00
ATOM	7872	HB2	ARG	X	517	48.081	20.110	47.010	0.00	0.00
ATOM	7873	HB3	ARG	X	517	49.078	19.358	48.236	0.00	0.00
ATOM	7874	CG	ARG	X	517	49.708	19.134	46.104	0.00	0.00
ATOM	7875	HG2	ARG	X	517	50.077	18.109	46.127	0.00	0.00
ATOM	7876	HG3	ARG	X	517	49.228	19.355	45.150	0.00	0.00
ATOM	7877	CD	ARG	X	517	50.839	20.210	46.360	0.00	0.00
ATOM	7878	HD2	ARG	X	517	50.399	21.181	46.135	0.00	0.00
ATOM	7879	HD3	ARG	X	517	51.258	20.139	47.364	0.00	0.00
ATOM	7880	NE	ARG	X	517	51.913	19.990	45.380	0.00	0.00
ATOM	7881	HE	ARG	X	517	51.903	20.670	44.633	0.00	0.00
ATOM	7882	CZ	ARG	X	517	52.857	19.074	45.450	0.00	0.00
ATOM	7883	NH1	ARG	X	517	53.074	18.335	46.533	0.00	0.00
ATOM	7884	HH11	ARG	X	517	52.613	18.488	47.418	0.00	0.00
ATOM	7885	HH12	ARG	X	517	53.625	17.489	46.530	0.00	0.00
ATOM	7886	NH2	ARG	X	517	53.573	18.970	44.349	0.00	0.00
ATOM	7887	HH21	ARG	X	517	53.545	19.622	43.578	0.00	0.00
ATOM	7888	HH22	ARG	X	517	54.359	18.343	44.445	0.00	0.00
ATOM	7889	C	ARG	X	517	46.568	18.243	48.342	0.00	0.00
ATOM	7890	O	ARG	X	517	45.503	18.843	48.059	0.00	0.00
ATOM	7891	N	ARG	X	518	46.833	17.831	49.569	0.00	0.00
ATOM	7892	H	ARG	X	518	47.693	17.341	49.773	0.00	0.00
ATOM	7893	CA	ARG	X	518	45.927	17.968	50.793	0.00	0.00
ATOM	7894	HA	ARG	X	518	45.032	18.522	50.510	0.00	0.00
ATOM	7895	CB	ARG	X	518	45.404	16.576	51.257	0.00	0.00
ATOM	7896	HB2	ARG	X	518	46.210	15.844	51.229	0.00	0.00
ATOM	7897	HB3	ARG	X	518	45.006	16.738	52.258	0.00	0.00
ATOM	7898	CG	ARG	X	518	44.237	16.048	50.395	0.00	0.00
ATOM	7899	HG2	ARG	X	518	43.439	16.791	50.382	0.00	0.00
ATOM	7900	HG3	ARG	X	518	44.609	15.783	49.405	0.00	0.00
ATOM	7901	CD	ARG	X	518	43.555	14.868	51.124	0.00	0.00
ATOM	7902	HD2	ARG	X	518	43.185	15.136	52.114	0.00	0.00
ATOM	7903	HD3	ARG	X	518	42.614	14.664	50.614	0.00	0.00
ATOM	7904	NE	ARG	X	518	44.313	13.620	51.149	0.00	0.00
ATOM	7905	HE	ARG	X	518	44.104	12.950	50.423	0.00	0.00
ATOM	7906	CZ	ARG	X	518	44.997	13.111	52.227	0.00	0.00
ATOM	7907	NH1	ARG	X	518	45.041	13.690	53.406	0.00	0.00
ATOM	7908	HH11	ARG	X	518	44.380	14.438	53.560	0.00	0.00
ATOM	7909	HH12	ARG	X	518	45.433	13.248	54.226	0.00	0.00
ATOM	7910	NH2	ARG	X	518	45.566	11.957	52.238	0.00	0.00
ATOM	7911	HH21	ARG	X	518	45.615	11.387	51.405	0.00	0.00
ATOM	7912	HH22	ARG	X	518	46.052	11.641	53.065	0.00	0.00
ATOM	7913	C	ARG	X	518	46.521	18.662	52.046	0.00	0.00
ATOM	7914	O	ARG	X	518	47.701	18.827	52.194	0.00	0.00
ATOM	7915	N	GLY	X	519	45.652	19.193	52.924	0.00	0.00
ATOM	7916	H	GLY	X	519	44.703	18.849	52.890	0.00	0.00
ATOM	7917	CA	GLY	X	519	45.918	20.061	54.084	0.00	0.00
ATOM	7918	HA2	GLY	X	519	44.985	20.428	54.510	0.00	0.00
ATOM	7919	HA3	GLY	X	519	46.313	19.549	54.961	0.00	0.00
ATOM	7920	C	GLY	X	519	46.763	21.321	53.836	0.00	0.00
ATOM	7921	O	GLY	X	519	47.749	21.534	54.457	0.00	0.00
ATOM	7922	N	LEU	X	520	46.370	22.212	52.879	0.00	0.00
ATOM	7923	H	LEU	X	520	45.581	22.028	52.276	0.00	0.00
ATOM	7924	CA	LEU	X	520	47.103	23.361	52.376	0.00	0.00
ATOM	7925	HA	LEU	X	520	47.880	23.117	51.652	0.00	0.00
ATOM	7926	CB	LEU	X	520	46.031	24.288	51.601	0.00	0.00
ATOM	7927	HB2	LEU	X	520	45.697	23.720	50.733	0.00	0.00
ATOM	7928	HB3	LEU	X	520	45.128	24.486	52.179	0.00	0.00
ATOM	7929	CG	LEU	X	520	46.553	25.641	50.963	0.00	0.00
ATOM	7930	HG	LEU	X	520	46.800	26.239	51.840	0.00	0.00
ATOM	7931	CD1	LEU	X	520	47.861	25.650	50.132	0.00	0.00

ATOM	7932	HD11	LEU	X	520	47.603	25.201	49.173	0.00	0.00
ATOM	7933	HD12	LEU	X	520	48.644	25.046	50.590	0.00	0.00
ATOM	7934	HD13	LEU	X	520	48.157	26.657	49.838	0.00	0.00
ATOM	7935	CD2	LEU	X	520	45.370	26.238	50.190	0.00	0.00
ATOM	7936	HD21	LEU	X	520	45.739	27.176	49.775	0.00	0.00
ATOM	7937	HD22	LEU	X	520	44.991	25.667	49.342	0.00	0.00
ATOM	7938	HD23	LEU	X	520	44.638	26.456	50.967	0.00	0.00
ATOM	7939	C	LEU	X	520	47.845	24.189	53.462	0.00	0.00
ATOM	7940	O	LEU	X	520	47.283	24.971	54.219	0.00	0.00
ATOM	7941	N	ARG	X	521	49.152	24.006	53.609	0.00	0.00
ATOM	7942	H	ARG	X	521	49.602	23.490	52.867	0.00	0.00
ATOM	7943	CA	ARG	X	521	50.087	24.718	54.545	0.00	0.00
ATOM	7944	HA	ARG	X	521	51.034	24.184	54.465	0.00	0.00
ATOM	7945	CB	ARG	X	521	50.248	26.222	54.062	0.00	0.00
ATOM	7946	HB2	ARG	X	521	50.284	26.253	52.973	0.00	0.00
ATOM	7947	HB3	ARG	X	521	49.439	26.868	54.404	0.00	0.00
ATOM	7948	CG	ARG	X	521	51.584	26.846	54.503	0.00	0.00
ATOM	7949	HG2	ARG	X	521	51.571	27.888	54.183	0.00	0.00
ATOM	7950	HG3	ARG	X	521	51.577	26.883	55.592	0.00	0.00
ATOM	7951	CD	ARG	X	521	52.758	26.129	53.874	0.00	0.00
ATOM	7952	HD2	ARG	X	521	52.700	25.080	54.167	0.00	0.00
ATOM	7953	HD3	ARG	X	521	52.692	26.317	52.802	0.00	0.00
ATOM	7954	NE	ARG	X	521	53.988	26.729	54.333	0.00	0.00
ATOM	7955	HE	ARG	X	521	53.954	27.708	54.578	0.00	0.00
ATOM	7956	CZ	ARG	X	521	55.192	26.199	54.362	0.00	0.00
ATOM	7957	NH1	ARG	X	521	55.561	24.953	54.079	0.00	0.00
ATOM	7958	HH11	ARG	X	521	54.899	24.291	53.701	0.00	0.00
ATOM	7959	HH12	ARG	X	521	56.477	24.547	54.205	0.00	0.00
ATOM	7960	NH2	ARG	X	521	56.152	26.888	54.937	0.00	0.00
ATOM	7961	HH21	ARG	X	521	55.930	27.745	55.422	0.00	0.00
ATOM	7962	HH22	ARG	X	521	57.105	26.554	54.960	0.00	0.00
ATOM	7963	C	ARG	X	521	49.684	24.693	56.027	0.00	0.00
ATOM	7964	O	ARG	X	521	49.997	25.542	56.835	0.00	0.00
ATOM	7965	N	ALA	X	522	48.851	23.727	56.431	0.00	0.00
ATOM	7966	H	ALA	X	522	48.582	23.147	55.649	0.00	0.00
ATOM	7967	CA	ALA	X	522	48.148	23.678	57.764	0.00	0.00
ATOM	7968	HA	ALA	X	522	47.562	24.589	57.891	0.00	0.00
ATOM	7969	CB	ALA	X	522	47.145	22.540	57.728	0.00	0.00
ATOM	7970	HB1	ALA	X	522	46.548	22.554	56.816	0.00	0.00
ATOM	7971	HB2	ALA	X	522	46.423	22.671	58.534	0.00	0.00
ATOM	7972	HB3	ALA	X	522	47.699	21.607	57.625	0.00	0.00
ATOM	7973	C	ALA	X	522	49.035	23.433	59.031	0.00	0.00
ATOM	7974	O	ALA	X	522	48.976	24.231	59.993	0.00	0.00
ATOM	7975	N	GLN	X	523	49.955	22.526	58.950	0.00	0.00
ATOM	7976	H	GLN	X	523	49.946	22.085	58.041	0.00	0.00
ATOM	7977	CA	GLN	X	523	51.013	22.299	59.972	0.00	0.00
ATOM	7978	HA	GLN	X	523	50.532	22.090	60.927	0.00	0.00
ATOM	7979	CB	GLN	X	523	51.807	21.045	59.575	0.00	0.00
ATOM	7980	HB2	GLN	X	523	51.074	20.248	59.446	0.00	0.00
ATOM	7981	HB3	GLN	X	523	52.278	21.180	58.601	0.00	0.00
ATOM	7982	CG	GLN	X	523	52.887	20.488	60.528	0.00	0.00
ATOM	7983	HG2	GLN	X	523	53.488	21.334	60.862	0.00	0.00
ATOM	7984	HG3	GLN	X	523	52.382	20.133	61.427	0.00	0.00
ATOM	7985	CD	GLN	X	523	53.769	19.381	59.900	0.00	0.00
ATOM	7986	OE1	GLN	X	523	53.649	18.181	60.257	0.00	0.00
ATOM	7987	NE2	GLN	X	523	54.629	19.683	58.949	0.00	0.00
ATOM	7988	HE21	GLN	X	523	55.108	18.938	58.464	0.00	0.00
ATOM	7989	HE22	GLN	X	523	54.783	20.659	58.742	0.00	0.00
ATOM	7990	C	GLN	X	523	52.022	23.470	60.036	0.00	0.00
ATOM	7991	O	GLN	X	523	52.470	23.925	61.082	0.00	0.00
ATOM	7992	N	ALA	X	524	52.459	23.936	58.858	0.00	0.00
ATOM	7993	H	ALA	X	524	52.223	23.620	57.928	0.00	0.00
ATOM	7994	CA	ALA	X	524	53.301	25.072	58.684	0.00	0.00
ATOM	7995	HA	ALA	X	524	54.206	24.866	59.255	0.00	0.00
ATOM	7996	CB	ALA	X	524	53.699	25.135	57.141	0.00	0.00
ATOM	7997	HB1	ALA	X	524	54.339	26.001	56.966	0.00	0.00
ATOM	7998	HB2	ALA	X	524	52.804	25.378	56.569	0.00	0.00

ATOM	7999	HB3	ALA	X	524	54.197	24.279	56.687	0.00	0.00
ATOM	8000	C	ALA	X	524	52.781	26.397	59.277	0.00	0.00
ATOM	8001	O	ALA	X	524	53.356	27.001	60.183	0.00	0.00
ATOM	8002	N	CYX	X	525	51.546	26.786	58.887	0.00	0.00
ATOM	8003	H	CYX	X	525	51.151	26.261	58.120	0.00	0.00
ATOM	8004	CA	CYX	X	525	50.793	27.956	59.402	0.00	0.00
ATOM	8005	HA	CYX	X	525	51.482	28.800	59.448	0.00	0.00
ATOM	8006	CB	CYX	X	525	49.504	28.137	58.618	0.00	0.00
ATOM	8007	HB2	CYX	X	525	49.031	27.155	58.590	0.00	0.00
ATOM	8008	HB3	CYX	X	525	48.933	28.911	59.129	0.00	0.00
ATOM	8009	SG	CYX	X	525	49.916	28.730	56.997	0.00	0.00
ATOM	8010	C	CYX	X	525	50.313	27.783	60.885	0.00	0.00
ATOM	8011	O	CYX	X	525	49.868	28.692	61.503	0.00	0.00
ATOM	8012	N	ALA	X	526	50.292	26.611	61.588	0.00	0.00
ATOM	8013	H	ALA	X	526	50.425	25.782	61.026	0.00	0.00
ATOM	8014	CA	ALA	X	526	50.036	26.473	62.971	0.00	0.00
ATOM	8015	HA	ALA	X	526	49.075	26.873	63.297	0.00	0.00
ATOM	8016	CB	ALA	X	526	50.079	24.956	63.282	0.00	0.00
ATOM	8017	HB1	ALA	X	526	51.060	24.559	63.545	0.00	0.00
ATOM	8018	HB2	ALA	X	526	49.587	24.354	62.517	0.00	0.00
ATOM	8019	HB3	ALA	X	526	49.516	24.828	64.206	0.00	0.00
ATOM	8020	C	ALA	X	526	51.120	27.193	63.774	0.00	0.00
ATOM	8021	O	ALA	X	526	50.877	27.691	64.882	0.00	0.00
ATOM	8022	N	PHE	X	527	52.323	27.257	63.267	0.00	0.00
ATOM	8023	H	PHE	X	527	52.515	26.914	62.336	0.00	0.00
ATOM	8024	CA	PHE	X	527	53.507	27.855	63.919	0.00	0.00
ATOM	8025	HA	PHE	X	527	53.540	27.330	64.874	0.00	0.00
ATOM	8026	CB	PHE	X	527	54.755	27.480	63.122	0.00	0.00
ATOM	8027	HB2	PHE	X	527	54.859	26.413	63.319	0.00	0.00
ATOM	8028	HB3	PHE	X	527	54.588	27.639	62.057	0.00	0.00
ATOM	8029	CG	PHE	X	527	56.089	28.084	63.591	0.00	0.00
ATOM	8030	CD1	PHE	X	527	56.760	27.523	64.715	0.00	0.00
ATOM	8031	HD1	PHE	X	527	56.351	26.778	65.382	0.00	0.00
ATOM	8032	CE1	PHE	X	527	58.069	28.007	65.102	0.00	0.00
ATOM	8033	HE1	PHE	X	527	58.602	27.693	65.987	0.00	0.00
ATOM	8034	CZ	PHE	X	527	58.638	29.028	64.294	0.00	0.00
ATOM	8035	HZ	PHE	X	527	59.677	29.238	64.499	0.00	0.00
ATOM	8036	CE2	PHE	X	527	57.978	29.452	63.115	0.00	0.00
ATOM	8037	HE2	PHE	X	527	58.590	30.053	62.458	0.00	0.00
ATOM	8038	CD2	PHE	X	527	56.656	29.072	62.834	0.00	0.00
ATOM	8039	HD2	PHE	X	527	56.111	29.455	61.984	0.00	0.00
ATOM	8040	C	PHE	X	527	53.267	29.307	64.148	0.00	0.00
ATOM	8041	O	PHE	X	527	53.388	29.882	65.226	0.00	0.00
ATOM	8042	N	TRP	X	528	52.868	29.933	63.069	0.00	0.00
ATOM	8043	H	TRP	X	528	52.785	29.467	62.176	0.00	0.00
ATOM	8044	CA	TRP	X	528	52.543	31.346	63.035	0.00	0.00
ATOM	8045	HA	TRP	X	528	53.400	31.900	63.418	0.00	0.00
ATOM	8046	CB	TRP	X	528	52.439	31.781	61.575	0.00	0.00
ATOM	8047	HB2	TRP	X	528	51.598	31.316	61.060	0.00	0.00
ATOM	8048	HB3	TRP	X	528	52.229	32.849	61.630	0.00	0.00
ATOM	8049	CG	TRP	X	528	53.724	31.626	60.806	0.00	0.00
ATOM	8050	CD1	TRP	X	528	53.887	30.778	59.757	0.00	0.00
ATOM	8051	HD1	TRP	X	528	53.078	30.233	59.294	0.00	0.00
ATOM	8052	NE1	TRP	X	528	55.181	30.779	59.272	0.00	0.00
ATOM	8053	HE1	TRP	X	528	55.371	30.396	58.357	0.00	0.00
ATOM	8054	CE2	TRP	X	528	55.928	31.622	60.087	0.00	0.00
ATOM	8055	CZ2	TRP	X	528	57.320	31.936	59.964	0.00	0.00
ATOM	8056	HZ2	TRP	X	528	57.952	31.468	59.224	0.00	0.00
ATOM	8057	CH2	TRP	X	528	57.843	32.819	60.942	0.00	0.00
ATOM	8058	HH2	TRP	X	528	58.883	33.076	60.806	0.00	0.00
ATOM	8059	CZ3	TRP	X	528	57.044	33.344	61.933	0.00	0.00
ATOM	8060	HZ3	TRP	X	528	57.552	33.998	62.626	0.00	0.00
ATOM	8061	CE3	TRP	X	528	55.646	33.013	62.016	0.00	0.00
ATOM	8062	HE3	TRP	X	528	55.089	33.203	62.921	0.00	0.00
ATOM	8063	CD2	TRP	X	528	55.066	32.187	61.022	0.00	0.00
ATOM	8064	C	TRP	X	528	51.215	31.682	63.777	0.00	0.00
ATOM	8065	O	TRP	X	528	51.114	32.739	64.384	0.00	0.00

ATOM	8066	N	ASN	X	529	50.230	30.776	63.733	0.00	0.00
ATOM	8067	H	ASN	X	529	50.327	29.991	63.105	0.00	0.00
ATOM	8068	CA	ASN	X	529	48.899	31.033	64.261	0.00	0.00
ATOM	8069	HA	ASN	X	529	48.675	32.062	63.980	0.00	0.00
ATOM	8070	CB	ASN	X	529	47.856	30.247	63.538	0.00	0.00
ATOM	8071	HB2	ASN	X	529	47.909	30.643	62.524	0.00	0.00
ATOM	8072	HB3	ASN	X	529	48.118	29.190	63.580	0.00	0.00
ATOM	8073	CG	ASN	X	529	46.364	30.338	63.989	0.00	0.00
ATOM	8074	OD1	ASN	X	529	45.864	31.312	64.553	0.00	0.00
ATOM	8075	ND2	ASN	X	529	45.632	29.243	63.788	0.00	0.00
ATOM	8076	HD21	ASN	X	529	44.631	29.235	63.924	0.00	0.00
ATOM	8077	HD22	ASN	X	529	46.117	28.423	63.451	0.00	0.00
ATOM	8078	C	ASN	X	529	48.880	30.852	65.808	0.00	0.00
ATOM	8079	O	ASN	X	529	48.127	31.506	66.515	0.00	0.00
ATOM	8080	N	ARG	X	530	49.538	29.814	66.294	0.00	0.00
ATOM	8081	H	ARG	X	530	49.892	29.199	65.576	0.00	0.00
ATOM	8082	CA	ARG	X	530	49.405	29.291	67.713	0.00	0.00
ATOM	8083	HA	ARG	X	530	48.858	30.028	68.302	0.00	0.00
ATOM	8084	CB	ARG	X	530	48.628	27.936	67.752	0.00	0.00
ATOM	8085	HB2	ARG	X	530	49.212	27.198	67.204	0.00	0.00
ATOM	8086	HB3	ARG	X	530	48.604	27.562	68.776	0.00	0.00
ATOM	8087	CG	ARG	X	530	47.238	27.954	67.107	0.00	0.00
ATOM	8088	HG2	ARG	X	530	47.259	28.002	66.019	0.00	0.00
ATOM	8089	HG3	ARG	X	530	46.810	26.981	67.346	0.00	0.00
ATOM	8090	CD	ARG	X	530	46.294	29.114	67.641	0.00	0.00
ATOM	8091	HD2	ARG	X	530	46.570	29.416	68.652	0.00	0.00
ATOM	8092	HD3	ARG	X	530	46.401	30.003	67.019	0.00	0.00
ATOM	8093	NE	ARG	X	530	44.848	28.594	67.675	0.00	0.00
ATOM	8094	HE	ARG	X	530	44.721	27.646	68.001	0.00	0.00
ATOM	8095	CZ	ARG	X	530	43.781	29.171	67.157	0.00	0.00
ATOM	8096	NH1	ARG	X	530	43.820	30.283	66.503	0.00	0.00
ATOM	8097	HH11	ARG	X	530	44.716	30.739	66.402	0.00	0.00
ATOM	8098	HH12	ARG	X	530	43.103	30.349	65.795	0.00	0.00
ATOM	8099	NH2	ARG	X	530	42.542	28.610	67.208	0.00	0.00
ATOM	8100	HH21	ARG	X	530	42.414	27.775	67.761	0.00	0.00
ATOM	8101	HH22	ARG	X	530	41.790	29.070	66.715	0.00	0.00
ATOM	8102	C	ARG	X	530	50.700	29.146	68.522	0.00	0.00
ATOM	8103	O	ARG	X	530	50.546	29.194	69.723	0.00	0.00
ATOM	8104	N	PHE	X	531	51.877	28.893	67.954	0.00	0.00
ATOM	8105	H	PHE	X	531	51.936	28.620	66.983	0.00	0.00
ATOM	8106	CA	PHE	X	531	53.122	28.769	68.727	0.00	0.00
ATOM	8107	HA	PHE	X	531	52.901	28.415	69.734	0.00	0.00
ATOM	8108	CB	PHE	X	531	54.092	27.749	68.112	0.00	0.00
ATOM	8109	HB2	PHE	X	531	53.486	26.846	68.191	0.00	0.00
ATOM	8110	HB3	PHE	X	531	54.227	27.896	67.040	0.00	0.00
ATOM	8111	CG	PHE	X	531	55.450	27.550	68.797	0.00	0.00
ATOM	8112	CD1	PHE	X	531	56.539	28.239	68.327	0.00	0.00
ATOM	8113	HD1	PHE	X	531	56.357	28.770	67.404	0.00	0.00
ATOM	8114	CE1	PHE	X	531	57.784	28.237	68.995	0.00	0.00
ATOM	8115	HE1	PHE	X	531	58.673	28.710	68.606	0.00	0.00
ATOM	8116	CZ	PHE	X	531	57.927	27.381	70.067	0.00	0.00
ATOM	8117	HZ	PHE	X	531	58.919	27.300	70.487	0.00	0.00
ATOM	8118	CE2	PHE	X	531	56.781	26.694	70.565	0.00	0.00
ATOM	8119	HE2	PHE	X	531	56.834	26.021	71.408	0.00	0.00
ATOM	8120	CD2	PHE	X	531	55.593	26.738	69.953	0.00	0.00
ATOM	8121	HD2	PHE	X	531	54.708	26.213	70.280	0.00	0.00
ATOM	8122	C	PHE	X	531	53.857	30.119	68.860	0.00	0.00
ATOM	8123	O	PHE	X	531	54.261	30.470	69.971	0.00	0.00
ATOM	8124	N	LEU	X	532	54.164	30.914	67.829	0.00	0.00
ATOM	8125	H	LEU	X	532	53.927	30.600	66.899	0.00	0.00
ATOM	8126	CA	LEU	X	532	54.806	32.249	67.988	0.00	0.00
ATOM	8127	HA	LEU	X	532	55.771	32.172	68.489	0.00	0.00
ATOM	8128	CB	LEU	X	532	55.021	32.861	66.610	0.00	0.00
ATOM	8129	HB2	LEU	X	532	54.481	32.228	65.906	0.00	0.00
ATOM	8130	HB3	LEU	X	532	54.512	33.824	66.557	0.00	0.00
ATOM	8131	CG	LEU	X	532	56.404	32.978	66.070	0.00	0.00
ATOM	8132	HG	LEU	X	532	56.329	33.556	65.149	0.00	0.00

ATOM	8133	CD1	LEU	X	532	57.256	33.893	66.814	0.00	0.00
ATOM	8134	HD11	LEU	X	532	57.480	33.599	67.839	0.00	0.00
ATOM	8135	HD12	LEU	X	532	56.837	34.899	66.827	0.00	0.00
ATOM	8136	HD13	LEU	X	532	58.174	33.941	66.228	0.00	0.00
ATOM	8137	CD2	LEU	X	532	57.139	31.646	65.840	0.00	0.00
ATOM	8138	HD21	LEU	X	532	56.419	30.849	65.657	0.00	0.00
ATOM	8139	HD22	LEU	X	532	57.830	31.762	65.005	0.00	0.00
ATOM	8140	HD23	LEU	X	532	57.760	31.390	66.699	0.00	0.00
ATOM	8141	C	LEU	X	532	53.974	33.173	68.872	0.00	0.00
ATOM	8142	O	LEU	X	532	54.613	33.691	69.835	0.00	0.00
ATOM	8143	N	PRO	X	533	52.678	33.456	68.625	0.00	0.00
ATOM	8144	CD	PRO	X	533	51.869	32.850	67.504	0.00	0.00
ATOM	8145	HD2	PRO	X	533	51.443	31.932	67.908	0.00	0.00
ATOM	8146	HD3	PRO	X	533	52.378	32.839	66.540	0.00	0.00
ATOM	8147	CG	PRO	X	533	50.735	33.833	67.286	0.00	0.00
ATOM	8148	HG2	PRO	X	533	49.915	33.397	66.716	0.00	0.00
ATOM	8149	HG3	PRO	X	533	51.016	34.770	66.805	0.00	0.00
ATOM	8150	CB	PRO	X	533	50.450	34.127	68.804	0.00	0.00
ATOM	8151	HB2	PRO	X	533	49.983	33.228	69.208	0.00	0.00
ATOM	8152	HB3	PRO	X	533	49.852	35.035	68.880	0.00	0.00
ATOM	8153	CA	PRO	X	533	51.836	34.352	69.427	0.00	0.00
ATOM	8154	HA	PRO	X	533	52.099	35.377	69.167	0.00	0.00
ATOM	8155	C	PRO	X	533	51.803	34.128	70.917	0.00	0.00
ATOM	8156	O	PRO	X	533	51.556	35.046	71.638	0.00	0.00
ATOM	8157	N	LYS	X	534	51.996	32.847	71.348	0.00	0.00
ATOM	8158	H	LYS	X	534	51.821	32.063	70.736	0.00	0.00
ATOM	8159	CA	LYS	X	534	52.212	32.533	72.788	0.00	0.00
ATOM	8160	HA	LYS	X	534	51.503	33.108	73.383	0.00	0.00
ATOM	8161	CB	LYS	X	534	52.011	31.034	73.034	0.00	0.00
ATOM	8162	HB2	LYS	X	534	50.976	30.720	72.895	0.00	0.00
ATOM	8163	HB3	LYS	X	534	52.583	30.437	72.324	0.00	0.00
ATOM	8164	CG	LYS	X	534	52.252	30.596	74.499	0.00	0.00
ATOM	8165	HG2	LYS	X	534	53.181	31.077	74.805	0.00	0.00
ATOM	8166	HG3	LYS	X	534	51.415	30.882	75.136	0.00	0.00
ATOM	8167	CD	LYS	X	534	52.426	29.068	74.493	0.00	0.00
ATOM	8168	HD2	LYS	X	534	53.111	28.645	73.759	0.00	0.00
ATOM	8169	HD3	LYS	X	534	52.891	28.875	75.460	0.00	0.00
ATOM	8170	CE	LYS	X	534	51.070	28.257	74.194	0.00	0.00
ATOM	8171	HE2	LYS	X	534	50.609	28.749	73.338	0.00	0.00
ATOM	8172	HE3	LYS	X	534	51.274	27.212	73.960	0.00	0.00
ATOM	8173	NZ	LYS	X	534	50.202	28.250	75.330	0.00	0.00
ATOM	8174	HZ1	LYS	X	534	49.906	29.144	75.695	0.00	0.00
ATOM	8175	HZ2	LYS	X	534	49.346	27.763	75.106	0.00	0.00
ATOM	8176	HZ3	LYS	X	534	50.632	27.741	76.089	0.00	0.00
ATOM	8177	C	LYS	X	534	53.612	32.974	73.253	0.00	0.00
ATOM	8178	O	LYS	X	534	53.666	33.604	74.310	0.00	0.00
ATOM	8179	N	LEU	X	535	54.707	32.732	72.518	0.00	0.00
ATOM	8180	H	LEU	X	535	54.629	32.382	71.574	0.00	0.00
ATOM	8181	CA	LEU	X	535	56.015	33.363	72.892	0.00	0.00
ATOM	8182	HA	LEU	X	535	56.405	33.083	73.871	0.00	0.00
ATOM	8183	CB	LEU	X	535	57.070	32.669	72.020	0.00	0.00
ATOM	8184	HB2	LEU	X	535	57.035	31.594	72.196	0.00	0.00
ATOM	8185	HB3	LEU	X	535	56.807	32.939	70.997	0.00	0.00
ATOM	8186	CG	LEU	X	535	58.492	33.241	72.255	0.00	0.00
ATOM	8187	HG	LEU	X	535	58.517	34.323	72.119	0.00	0.00
ATOM	8188	CD1	LEU	X	535	59.049	32.948	73.615	0.00	0.00
ATOM	8189	HD11	LEU	X	535	60.127	33.105	73.643	0.00	0.00
ATOM	8190	HD12	LEU	X	535	58.722	31.949	73.907	0.00	0.00
ATOM	8191	HD13	LEU	X	535	58.683	33.755	74.249	0.00	0.00
ATOM	8192	CD2	LEU	X	535	59.443	32.645	71.174	0.00	0.00
ATOM	8193	HD21	LEU	X	535	59.000	32.985	70.238	0.00	0.00
ATOM	8194	HD22	LEU	X	535	60.452	33.032	71.314	0.00	0.00
ATOM	8195	HD23	LEU	X	535	59.261	31.571	71.207	0.00	0.00
ATOM	8196	C	LEU	X	535	56.016	34.899	72.851	0.00	0.00
ATOM	8197	O	LEU	X	535	56.718	35.480	73.672	0.00	0.00
ATOM	8198	N	LEU	X	536	55.319	35.521	71.845	0.00	0.00
ATOM	8199	H	LEU	X	536	54.914	34.944	71.121	0.00	0.00

ATOM	8200	CA	LEU	X	536	55.381	36.979	71.720	0.00	0.00
ATOM	8201	HA	LEU	X	536	56.423	37.300	71.721	0.00	0.00
ATOM	8202	CB	LEU	X	536	54.774	37.243	70.331	0.00	0.00
ATOM	8203	HB2	LEU	X	536	53.783	36.813	70.180	0.00	0.00
ATOM	8204	HB3	LEU	X	536	54.570	38.314	70.350	0.00	0.00
ATOM	8205	CG	LEU	X	536	55.715	36.991	69.040	0.00	0.00
ATOM	8206	HG	LEU	X	536	56.219	36.039	69.202	0.00	0.00
ATOM	8207	CD1	LEU	X	536	54.852	36.870	67.774	0.00	0.00
ATOM	8208	HD11	LEU	X	536	54.553	37.835	67.364	0.00	0.00
ATOM	8209	HD12	LEU	X	536	54.043	36.153	67.912	0.00	0.00
ATOM	8210	HD13	LEU	X	536	55.489	36.523	66.961	0.00	0.00
ATOM	8211	CD2	LEU	X	536	56.891	38.041	69.041	0.00	0.00
ATOM	8212	HD21	LEU	X	536	56.407	39.007	68.893	0.00	0.00
ATOM	8213	HD22	LEU	X	536	57.438	38.101	69.982	0.00	0.00
ATOM	8214	HD23	LEU	X	536	57.602	37.872	68.233	0.00	0.00
ATOM	8215	C	LEU	X	536	54.547	37.687	72.821	0.00	0.00
ATOM	8216	O	LEU	X	536	54.875	38.837	73.092	0.00	0.00
ATOM	8217	N	SER	X	537	53.542	37.095	73.410	0.00	0.00
ATOM	8218	H	SER	X	537	53.015	36.275	73.147	0.00	0.00
ATOM	8219	CA	SER	X	537	52.950	37.790	74.556	0.00	0.00
ATOM	8220	HA	SER	X	537	53.113	38.866	74.492	0.00	0.00
ATOM	8221	CB	SER	X	537	51.488	37.597	74.598	0.00	0.00
ATOM	8222	HB2	SER	X	537	51.013	38.046	75.470	0.00	0.00
ATOM	8223	HB3	SER	X	537	51.137	37.986	73.642	0.00	0.00
ATOM	8224	OG	SER	X	537	51.157	36.293	74.841	0.00	0.00
ATOM	8225	HG	SER	X	537	50.475	36.031	74.218	0.00	0.00
ATOM	8226	C	SER	X	537	53.564	37.323	75.911	0.00	0.00
ATOM	8227	O	SER	X	537	53.000	37.611	76.944	0.00	0.00
ATOM	8228	N	ALA	X	538	54.707	36.571	75.903	0.00	0.00
ATOM	8229	H	ALA	X	538	55.159	36.358	75.025	0.00	0.00
ATOM	8230	CA	ALA	X	538	55.262	35.884	77.116	0.00	0.00
ATOM	8231	HA	ALA	X	538	54.405	35.607	77.730	0.00	0.00
ATOM	8232	CB	ALA	X	538	56.064	34.653	76.650	0.00	0.00
ATOM	8233	HB1	ALA	X	538	56.266	34.029	77.520	0.00	0.00
ATOM	8234	HB2	ALA	X	538	56.948	35.030	76.136	0.00	0.00
ATOM	8235	HB3	ALA	X	538	55.524	34.071	75.902	0.00	0.00
ATOM	8236	C	ALA	X	538	56.109	36.767	78.041	0.00	0.00
ATOM	8237	O	ALA	X	538	56.614	36.328	79.087	0.00	0.00
ATOM	8238	N	THR	X	539	56.276	38.025	77.614	0.00	0.00
ATOM	8239	H	THR	X	539	55.931	38.315	76.709	0.00	0.00
ATOM	8240	CA	THR	X	539	57.136	39.000	78.264	0.00	0.00
ATOM	8241	HA	THR	X	539	57.164	38.794	79.334	0.00	0.00
ATOM	8242	CB	THR	X	539	58.597	38.998	77.761	0.00	0.00
ATOM	8243	HB	THR	X	539	58.643	39.165	76.685	0.00	0.00
ATOM	8244	CG2	THR	X	539	59.392	40.061	78.419	0.00	0.00
ATOM	8245	HG21	THR	X	539	59.194	40.042	79.490	0.00	0.00
ATOM	8246	HG22	THR	X	539	59.121	41.061	78.077	0.00	0.00
ATOM	8247	HG23	THR	X	539	60.453	39.853	78.283	0.00	0.00
ATOM	8248	OG1	THR	X	539	59.294	37.873	78.157	0.00	0.00
ATOM	8249	HG1	THR	X	539	59.421	37.287	77.408	0.00	0.00
ATOM	8250	C	THR	X	539	56.574	40.371	78.252	0.00	0.00
ATOM	8251	O	THR	X	539	56.624	41.024	77.177	0.00	0.00
ATOM	8252	OXT	THR	X	539	55.929	40.797	79.288	0.00	0.00

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